



June 23, 2021

Vista Work Order No. 2105042

Ms. Delaney Peterson
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

Dear Ms. Peterson,

Enclosed are the results for the sample set received at Vista Analytical Laboratory on May 06, 2021 under your Project Name 'GascoSiltronic: US Moorings'.

Vista Analytical Laboratory is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mmaier@vista-analytical.com.

Thank you for choosing Vista as part of your analytical support team.

Sincerely,

for

Martha Maier
Laboratory Director



Vista Analytical Laboratory certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Vista.

Vista Work Order No. 2105042

Case Narrative

Sample Condition on Receipt:

Thirteen sediment samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 1613B

These samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-DIOXIN GC column.

Holding Times

The samples were extracted and analyzed within the method hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank. The OPR recoveries were within the method acceptance criteria.

As requested, a duplicate was performed on sample "USMPDI-028SC-A-01-02-210504". The RPDs out of the acceptance criteria are reported in bold font.

Labeled standard recoveries for all QC and field samples were within method acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2105042-01	USMPDI-028SC-A-01-02-210504	DUP04-May-21 08:50	06-May-21 09:48	Amber Glass, 120 mL Amber Glass, 120 mL
2105042-02	USMPDI-028SC-A-02-03-210504	04-May-21 08:50	06-May-21 09:48	Amber Glass, 120 mL
2105042-03	USMPDI-028SC-A-03-04-210504	04-May-21 08:50	06-May-21 09:48	Amber Glass, 120 mL
2105042-04	USMPDI-028SC-A-04-05-210504	04-May-21 08:50	06-May-21 09:48	Amber Glass, 120 mL
2105042-05	USMPDI-1028SC-A-02-03-210504	04-May-21 08:50	06-May-21 09:48	Amber Glass, 120 mL
2105042-06	USMPDI-031SC-A-01-02-210504	04-May-21 11:30	06-May-21 09:48	Amber Glass, 120 mL
2105042-07	USMPDI-031SC-A-02-03-210504	04-May-21 11:30	06-May-21 09:48	Amber Glass, 120 mL
2105042-08	USMPDI-031SC-A-03-04-210504	04-May-21 11:30	06-May-21 09:48	Amber Glass, 120 mL
2105042-09	USMPDI-031SC-A-04-05-210504	04-May-21 11:30	06-May-21 09:48	Amber Glass, 120 mL
2105042-10	USMPDI-035SC-A-01-02-210504	04-May-21 10:10	06-May-21 09:48	Amber Glass, 120 mL
2105042-11	USMPDI-035SC-A-02-03-210504	04-May-21 10:10	06-May-21 09:48	Amber Glass, 120 mL
2105042-12	USMPDI-035SC-A-03-04-210504	04-May-21 10:10	06-May-21 09:48	Amber Glass, 120 mL
2105042-13	USMPDI-035SC-A-04-05-210504	04-May-21 10:10	06-May-21 09:48	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23		Lab Sample: B1E0224-BLK1 Date Analyzed: 01-Jun-21 14:12 Column: ZB-DIOXIN					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.157			IS 13C-2,3,7,8-TCDD	95.9	25 - 164		
1,2,3,7,8-PeCDD	ND	0.272			13C-1,2,3,7,8-PeCDD	107	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.466			13C-1,2,3,4,7,8-HxCDD	83.9	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.477			13C-1,2,3,6,7,8-HxCDD	83.1	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.475			13C-1,2,3,7,8,9-HxCDD	81.1	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.496			13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140		
OCDD	ND	0.819			13C-OCDD	73.7	17 - 157		
2,3,7,8-TCDF	ND	0.104			13C-2,3,7,8-TCDF	93.6	24 - 169		
1,2,3,7,8-PeCDF	ND		0.380		13C-1,2,3,7,8-PeCDF	101	24 - 185		
2,3,4,7,8-PeCDF	ND	0.158			13C-2,3,4,7,8-PeCDF	98.9	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.152			13C-1,2,3,4,7,8-HxCDF	90.7	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.172			13C-1,2,3,6,7,8-HxCDF	79.4	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.167			13C-2,3,4,6,7,8-HxCDF	91.0	28 - 136		
1,2,3,7,8,9-HxCDF	ND		0.612		13C-1,2,3,7,8,9-HxCDF	87.3	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.219			13C-1,2,3,4,6,7,8-HpCDF	85.8	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.236			13C-1,2,3,4,7,8,9-HpCDF	92.7	26 - 138		
OCDF	ND	0.413			13C-OCDF	81.1	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	122	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.157							
Total PeCDD	ND	0.272							
Total HxCDD	ND	0.477							
Total HpCDD	ND	0.496							
Total TCDF	ND	0.104							
Total PeCDF	ND		0.380						
Total HxCDF	ND		0.612						
Total HpCDF	ND	0.236							

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

The results are reported in dry weight. The sample size is reported in wet weight.

Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23			Lab Sample: B1E0224-BS1 Date Analyzed: 01-Jun-21 11:11 Column: ZB-DIOXIN		
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	25.7	20.0	128	67 - 158	IS 13C-2,3,7,8-TCDD	103	20 - 175
1,2,3,7,8-PeCDD	126	100	126	70 - 142	13C-1,2,3,7,8-PeCDD	95.0	21 - 227
1,2,3,4,7,8-HxCDD	127	100	127	70 - 164	13C-1,2,3,4,7,8-HxCDD	75.8	21 - 193
1,2,3,6,7,8-HxCDD	122	100	122	76 - 134	13C-1,2,3,6,7,8-HxCDD	79.5	25 - 163
1,2,3,7,8,9-HxCDD	124	100	124	64 - 162	13C-1,2,3,7,8,9-HxCDD	83.2	21 - 193
1,2,3,4,6,7,8-HpCDD	123	100	123	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	80.3	26 - 166
OCDD	247	200	124	78 - 144	13C-OCDD	70.9	13 - 199
2,3,7,8-TCDF	22.7	20.0	114	75 - 158	13C-2,3,7,8-TCDF	87.8	22 - 152
1,2,3,7,8-PeCDF	126	100	126	80 - 134	13C-1,2,3,7,8-PeCDF	90.6	21 - 192
2,3,4,7,8-PeCDF	124	100	124	68 - 160	13C-2,3,4,7,8-PeCDF	87.8	13 - 328
1,2,3,4,7,8-HxCDF	119	100	119	72 - 134	13C-1,2,3,4,7,8-HxCDF	79.5	19 - 202
1,2,3,6,7,8-HxCDF	117	100	117	84 - 130	13C-1,2,3,6,7,8-HxCDF	86.1	21 - 159
2,3,4,6,7,8-HxCDF	120	100	120	70 - 156	13C-2,3,4,6,7,8-HxCDF	81.8	22 - 176
1,2,3,7,8,9-HxCDF	123	100	123	78 - 130	13C-1,2,3,7,8,9-HxCDF	79.6	17 - 205
1,2,3,4,6,7,8-HpCDF	118	100	118	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	82.8	21 - 158
1,2,3,4,7,8,9-HpCDF	116	100	116	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	87.5	20 - 186
OCDF	240	200	120	63 - 170	13C-OCDF	82.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	123	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: USMPDI-028SC-A-01-02-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-01 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 19.8 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 8:50	% Solids: 50.7	Date Analyzed: 02-Jun-21 22:06 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.436		IS 13C-2,3,7,8-TCDD	28.9	25 - 164	
1,2,3,7,8-PeCDD	0.924			J	13C-1,2,3,7,8-PeCDD	38.8	25 - 181	
1,2,3,4,7,8-HxCDD	2.01			J	13C-1,2,3,4,7,8-HxCDD	36.7	32 - 141	
1,2,3,6,7,8-HxCDD	7.25				13C-1,2,3,6,7,8-HxCDD	35.9	28 - 130	
1,2,3,7,8,9-HxCDD	3.74				13C-1,2,3,7,8,9-HxCDD	36.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	224				13C-1,2,3,4,6,7,8-HpCDD	37.9	23 - 140	
OCDD	2100				13C-OCDD	38.5	17 - 157	
2,3,7,8-TCDF	4.15				13C-2,3,7,8-TCDF	28.2	24 - 169	
1,2,3,7,8-PeCDF	4.23				13C-1,2,3,7,8-PeCDF	34.8	24 - 185	
2,3,4,7,8-PeCDF	2.70				13C-2,3,4,7,8-PeCDF	35.9	21 - 178	
1,2,3,4,7,8-HxCDF	7.10				13C-1,2,3,4,7,8-HxCDF	35.7	26 - 152	
1,2,3,6,7,8-HxCDF	2.69				13C-1,2,3,6,7,8-HxCDF	33.4	26 - 123	
2,3,4,6,7,8-HxCDF	1.58			J	13C-2,3,4,6,7,8-HxCDF	36.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.885			J	13C-1,2,3,7,8,9-HxCDF	35.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	20.9				13C-1,2,3,4,6,7,8-HpCDF	37.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.41			J	13C-1,2,3,4,7,8,9-HpCDF	38.6	26 - 138	
OCDF	57.7				13C-OCDF	37.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	117	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 7.92

TOTALS			
Total TCDD	4.14		5.35
Total PeCDD	7.46		9.08
Total HxCDD	105		
Total HpCDD	594		
Total TCDF	17.9		19.0
Total PeCDF	22.4		
Total HxCDF	40.1		
Total HpCDF	62.4		

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: Duplicate **EPA Method 1613B**

Source Client ID: USMPDI-028SC-A-01-02-210504	QC Batch: B1E0224	Lab Sample: B1E0224-DUP1
Source LabNumber: 2105042-01	Date Extracted: 26-May-2021 7:23	Date Analyzed: 02-Jun-21 22:50 Column: ZB-DIOXIN
Matrix: Solid		
Sample Size: 19.7 g		

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.376		IS 13C-2,3,7,8-TCDD	98.0	25 - 164	
1,2,3,7,8-PeCDD	0.533			J	13C-1,2,3,7,8-PeCDD	98.4	25 - 181	
1,2,3,4,7,8-HxCDD	0.770			J	13C-1,2,3,4,7,8-HxCDD	81.6	32 - 141	
1,2,3,6,7,8-HxCDD	3.24				13C-1,2,3,6,7,8-HxCDD	81.5	28 - 130	
1,2,3,7,8,9-HxCDD	1.64			J	13C-1,2,3,7,8,9-HxCDD	82.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	72.7				13C-1,2,3,4,6,7,8-HpCDD	77.6	23 - 140	
OCDD	743				13C-OCDD	75.2	17 - 157	
2,3,7,8-TCDF	4.55				13C-2,3,7,8-TCDF	85.8	24 - 169	
1,2,3,7,8-PeCDF	4.73				13C-1,2,3,7,8-PeCDF	95.3	24 - 185	
2,3,4,7,8-PeCDF	2.78				13C-2,3,4,7,8-PeCDF	95.3	21 - 178	
1,2,3,4,7,8-HxCDF	8.29				13C-1,2,3,4,7,8-HxCDF	80.9	26 - 152	
1,2,3,6,7,8-HxCDF	2.43			J	13C-1,2,3,6,7,8-HxCDF	76.4	26 - 123	
2,3,4,6,7,8-HxCDF	1.15			J	13C-2,3,4,6,7,8-HxCDF	82.7	28 - 136	
1,2,3,7,8,9-HxCDF	0.551			J	13C-1,2,3,7,8,9-HxCDF	81.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	11.2				13C-1,2,3,4,6,7,8-HpCDF	84.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.59			J	13C-1,2,3,4,7,8,9-HpCDF	84.1	26 - 138	
OCDF	31.4				13C-OCDF	75.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	124	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 4.86

TOTALS		
Total TCDD	3.56	4.05
Total PeCDD	4.71	5.94
Total HxCDD	28.7	
Total HpCDD	160	
Total TCDF	17.4	20.4
Total PeCDF	23.2	
Total HxCDF	31.8	32.0
Total HpCDF	35.2	

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: USMPDI-028SC-A-01-02-210504					Duplicate Lab Sample: B1E0224-DUP1				
Source LabNumber: 2105042-01									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	35	IS 13C-2,3,7,8-TCDD	98.0	28.9	25 - 164	
1,2,3,7,8-PeCDD	0.533	0.924	53.7	35	13C-1,2,3,7,8-PeCDD	98.4	38.8	25 - 181	
1,2,3,4,7,8-HxCDD	0.770	2.01	89.1	35	13C-1,2,3,4,7,8-HxCDD	81.6	36.7	32 - 141	
1,2,3,6,7,8-HxCDD	3.24	7.25	76.5	35	13C-1,2,3,6,7,8-HxCDD	81.5	35.9	28 - 130	
1,2,3,7,8,9-HxCDD	1.64	3.74	78.1	35	13C-1,2,3,7,8,9-HxCDD	82.7	36.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	72.7	224	102	35	13C-1,2,3,4,6,7,8-HpCDD	77.6	37.9	23 - 140	
OCDD	743	2100	95.4	35	13C-OCDD	75.2	38.5	17 - 157	
2,3,7,8-TCDF	4.55	4.15	9.17	35	13C-2,3,7,8-TCDF	85.8	28.2	24 - 169	
1,2,3,7,8-PeCDF	4.73	4.23	11.2	35	13C-1,2,3,7,8-PeCDF	95.3	34.8	24 - 185	
2,3,4,7,8-PeCDF	2.78	2.70	3.14	35	13C-2,3,4,7,8-PeCDF	95.3	35.9	21 - 178	
1,2,3,4,7,8-HxCDF	8.29	7.10	15.5	35	13C-1,2,3,4,7,8-HxCDF	80.9	35.7	26 - 152	
1,2,3,6,7,8-HxCDF	2.43	2.69	9.82	35	13C-1,2,3,6,7,8-HxCDF	76.4	33.4	26 - 123	
2,3,4,6,7,8-HxCDF	1.15	1.58	31.7	35	13C-2,3,4,6,7,8-HxCDF	82.7	36.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.551	0.885	46.5	35	13C-1,2,3,7,8,9-HxCDF	81.7	35.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	11.2	20.9	60.6	35	13C-1,2,3,4,6,7,8-HpCDF	84.0	37.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.59	2.41	41.0	35	13C-1,2,3,4,7,8,9-HpCDF	84.1	38.6	26 - 138	
OCDF	31.4	57.7	59.1	35	13C-OCDF	75.1	37.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	124	117	35 - 197	

LCL-UCL - Lower control limit - upper control limit
The results are reported in dry weight.
The sample size is reported in wet weight. Results reported to the MDL

Sample ID: USMPDI-028SC-A-02-03-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-02 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.1 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 8:50	% Solids: 55.4	Date Analyzed: 02-Jun-21 23:34 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.619		IS 13C-2,3,7,8-TCDD	114	25 - 164	
1,2,3,7,8-PeCDD	1.52			J	13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	1.95			J	13C-1,2,3,4,7,8-HxCDD	87.7	32 - 141	
1,2,3,6,7,8-HxCDD	15.4				13C-1,2,3,6,7,8-HxCDD	86.9	28 - 130	
1,2,3,7,8,9-HxCDD	6.15				13C-1,2,3,7,8,9-HxCDD	86.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	300				13C-1,2,3,4,6,7,8-HpCDD	84.5	23 - 140	
OCDD	3330				13C-OCDD	86.2	17 - 157	
2,3,7,8-TCDF	8.87				13C-2,3,7,8-TCDF	94.6	24 - 169	
1,2,3,7,8-PeCDF	18.4				13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	8.55				13C-2,3,4,7,8-PeCDF	97.1	21 - 178	
1,2,3,4,7,8-HxCDF	63.3				13C-1,2,3,4,7,8-HxCDF	85.7	26 - 152	
1,2,3,6,7,8-HxCDF	18.0				13C-1,2,3,6,7,8-HxCDF	69.6	26 - 123	
2,3,4,6,7,8-HxCDF	4.29				13C-2,3,4,6,7,8-HxCDF	88.2	28 - 136	
1,2,3,7,8,9-HxCDF	2.38			J	13C-1,2,3,7,8,9-HxCDF	87.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	88.9				13C-1,2,3,4,6,7,8-HpCDF	85.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	11.7				13C-1,2,3,4,7,8,9-HpCDF	86.2	26 - 138	
OCDF	165				13C-OCDF	80.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	134	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin	21.7
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TOTALS		
Total TCDD	5.02	6.02
Total PeCDD	12.8	15.0
Total HxCDD	109	
Total HpCDD	602	
Total TCDF	36.9	37.6
Total PeCDF	71.2	72.1
Total HxCDF	159	
Total HpCDF	191	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-028SC-A-03-04-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-03 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.1 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 8:50	% Solids: 55.5	Date Analyzed : 03-Jun-21 00:19 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.688		IS 13C-2,3,7,8-TCDD	61.6	25 - 164	
1,2,3,7,8-PeCDD	0.751			J	13C-1,2,3,7,8-PeCDD	106	25 - 181	
1,2,3,4,7,8-HxCDD	0.663			J	13C-1,2,3,4,7,8-HxCDD	92.5	32 - 141	
1,2,3,6,7,8-HxCDD	5.14				13C-1,2,3,6,7,8-HxCDD	90.3	28 - 130	
1,2,3,7,8,9-HxCDD	2.28			J	13C-1,2,3,7,8,9-HxCDD	91.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	83.5				13C-1,2,3,4,6,7,8-HpCDD	91.1	23 - 140	
OCDD	999				13C-OCDD	85.1	17 - 157	
2,3,7,8-TCDF	17.8				13C-2,3,7,8-TCDF	92.8	24 - 169	
1,2,3,7,8-PeCDF	22.1				13C-1,2,3,7,8-PeCDF	100	24 - 185	
2,3,4,7,8-PeCDF	10.8				13C-2,3,4,7,8-PeCDF	99.8	21 - 178	
1,2,3,4,7,8-HxCDF	32.5				13C-1,2,3,4,7,8-HxCDF	92.1	26 - 152	
1,2,3,6,7,8-HxCDF	8.94				13C-1,2,3,6,7,8-HxCDF	88.4	26 - 123	
2,3,4,6,7,8-HxCDF	2.63				13C-2,3,4,6,7,8-HxCDF	92.9	28 - 136	
1,2,3,7,8,9-HxCDF	2.05			J	13C-1,2,3,7,8,9-HxCDF	91.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	23.2				13C-1,2,3,4,6,7,8-HpCDF	88.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	5.02				13C-1,2,3,4,7,8,9-HpCDF	92.0	26 - 138	
OCDF	46.2				13C-OCDF	83.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.0	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 13.3

TOTALS		
Total TCDD	8.31	9.31
Total PeCDD	8.76	9.34
Total HxCDD	46.9	
Total HpCDD	179	
Total TCDF	60.0	60.8
Total PeCDF	68.7	69.1
Total HxCDF	77.5	
Total HpCDF	64.2	

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-028SC-A-04-05-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-04 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 17.3 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 8:50	% Solids: 57.9	Date Analyzed : 09-Jun-21 13:51 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.901		IS 13C-2,3,7,8-TCDD	144	25 - 164	
1,2,3,7,8-PeCDD	ND		1.32		13C-1,2,3,7,8-PeCDD	84.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND		1.36		13C-1,2,3,4,7,8-HxCDD	83.4	32 - 141	
1,2,3,6,7,8-HxCDD	10.3				13C-1,2,3,6,7,8-HxCDD	80.8	28 - 130	
1,2,3,7,8,9-HxCDD	4.50				13C-1,2,3,7,8,9-HxCDD	79.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	232				13C-1,2,3,4,6,7,8-HpCDD	81.4	23 - 140	
OCDD	3740				13C-OCDD	75.6	17 - 157	
2,3,7,8-TCDF	47.4				13C-2,3,7,8-TCDF	93.9	24 - 169	
1,2,3,7,8-PeCDF	73.9				13C-1,2,3,7,8-PeCDF	88.8	24 - 185	
2,3,4,7,8-PeCDF	38.2				13C-2,3,4,7,8-PeCDF	85.3	21 - 178	
1,2,3,4,7,8-HxCDF	128				13C-1,2,3,4,7,8-HxCDF	90.5	26 - 152	
1,2,3,6,7,8-HxCDF	35.3				13C-1,2,3,6,7,8-HxCDF	91.7	26 - 123	
2,3,4,6,7,8-HxCDF	9.69				13C-2,3,4,6,7,8-HxCDF	90.7	28 - 136	
1,2,3,7,8,9-HxCDF	4.59				13C-1,2,3,7,8,9-HxCDF	84.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	104				13C-1,2,3,4,6,7,8-HpCDF	82.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	28.8				13C-1,2,3,4,7,8,9-HpCDF	78.0	26 - 138	
OCDF	253				13C-OCDF	79.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	152	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 42.5

TOTALS			
Total TCDD	3.76		4.81
Total PeCDD	8.17		12.5
Total HxCDD	81.3		83.3
Total HpCDD	488		
Total TCDF	140		141
Total PeCDF	213		215
Total HxCDF	259		260
Total HpCDF	258		

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-1028SC-A-02-03-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-05 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 17.9 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 8:50	% Solids: 56.0	Date Analyzed : 04-Jun-21 14:16 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.304		IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	0.762			J	13C-1,2,3,7,8-PeCDD	89.5	25 - 181	
1,2,3,4,7,8-HxCDD	0.885			J	13C-1,2,3,4,7,8-HxCDD	86.6	32 - 141	
1,2,3,6,7,8-HxCDD	6.35				13C-1,2,3,6,7,8-HxCDD	84.8	28 - 130	
1,2,3,7,8,9-HxCDD	2.51				13C-1,2,3,7,8,9-HxCDD	84.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	124				13C-1,2,3,4,6,7,8-HpCDD	80.8	23 - 140	
OCDD	1390				13C-OCDD	80.2	17 - 157	
2,3,7,8-TCDF	4.47				13C-2,3,7,8-TCDF	92.2	24 - 169	
1,2,3,7,8-PeCDF	7.23				13C-1,2,3,7,8-PeCDF	84.0	24 - 185	
2,3,4,7,8-PeCDF	3.92				13C-2,3,4,7,8-PeCDF	88.0	21 - 178	
1,2,3,4,7,8-HxCDF	14.3				13C-1,2,3,4,7,8-HxCDF	89.1	26 - 152	
1,2,3,6,7,8-HxCDF	4.36				13C-1,2,3,6,7,8-HxCDF	71.0	26 - 123	
2,3,4,6,7,8-HxCDF	1.65			J	13C-2,3,4,6,7,8-HxCDF	90.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.583			J	13C-1,2,3,7,8,9-HxCDF	87.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	21.5				13C-1,2,3,4,6,7,8-HpCDF	86.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.73				13C-1,2,3,4,7,8,9-HpCDF	88.3	26 - 138	
OCDF	60.6				13C-OCDF	75.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	127	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 7.59

TOTALS			
Total TCDD	1.39		2.83
Total PeCDD	1.99		5.40
Total HxCDD	32.2		
Total HpCDD	261		
Total TCDF	18.2		18.3
Total PeCDF	31.5		32.0
Total HxCDF	48.6		48.8
Total HpCDF	59.2		59.5

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-031SC-A-01-02-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-06 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 19.3 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 11:30	% Solids: 51.9	Date Analyzed: 04-Jun-21 15:02 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0337			IS 13C-2,3,7,8-TCDD	79.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.101			13C-1,2,3,7,8-PeCDD	72.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0832			13C-1,2,3,4,7,8-HxCDD	80.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.246		13C-1,2,3,6,7,8-HxCDD	80.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0909			13C-1,2,3,7,8,9-HxCDD	77.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	6.76				13C-1,2,3,4,6,7,8-HpCDD	70.2	23 - 140	
OCDD	68.3				13C-OCDD	64.5	17 - 157	
2,3,7,8-TCDF	0.427			J	13C-2,3,7,8-TCDF	85.4	24 - 169	
1,2,3,7,8-PeCDF	0.643			J	13C-1,2,3,7,8-PeCDF	66.7	24 - 185	
2,3,4,7,8-PeCDF	0.337			J	13C-2,3,4,7,8-PeCDF	85.0	21 - 178	
1,2,3,4,7,8-HxCDF	1.67			J	13C-1,2,3,4,7,8-HxCDF	81.9	26 - 152	
1,2,3,6,7,8-HxCDF	0.498			J	13C-1,2,3,6,7,8-HxCDF	80.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.131		13C-2,3,4,6,7,8-HxCDF	81.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.113		13C-1,2,3,7,8,9-HxCDF	78.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.85			J	13C-1,2,3,4,6,7,8-HpCDF	76.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.332			J	13C-1,2,3,4,7,8,9-HpCDF	80.4	26 - 138	
OCDF	3.86			J	13C-OCDF	68.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	119	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.491

TOTALS								
Total TCDD	0.132		0.172					
Total PeCDD	ND	0.101						
Total HxCDD	0.828		1.42					
Total HpCDD	16.6							
Total TCDF	0.842		0.939					
Total PeCDF	2.13							
Total HxCDF	4.14		4.46					
Total HpCDF	4.88							

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-031SC-A-02-03-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-07 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.8 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 11:30	% Solids: 53.3	Date Analyzed : 05-Jun-21 05:19 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.305		IS 13C-2,3,7,8-TCDD	78.5	25 - 164	
1,2,3,7,8-PeCDD	0.570			J	13C-1,2,3,7,8-PeCDD	97.2	25 - 181	
1,2,3,4,7,8-HxCDD	0.824			J	13C-1,2,3,4,7,8-HxCDD	87.5	32 - 141	
1,2,3,6,7,8-HxCDD	3.60				13C-1,2,3,6,7,8-HxCDD	86.3	28 - 130	
1,2,3,7,8,9-HxCDD	2.03			J	13C-1,2,3,7,8,9-HxCDD	89.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	90.3				13C-1,2,3,4,6,7,8-HpCDD	84.8	23 - 140	
OCDD	1100				13C-OCDD	68.6	17 - 157	
2,3,7,8-TCDF	3.29				13C-2,3,7,8-TCDF	91.6	24 - 169	
1,2,3,7,8-PeCDF	6.58				13C-1,2,3,7,8-PeCDF	92.5	24 - 185	
2,3,4,7,8-PeCDF	2.93				13C-2,3,4,7,8-PeCDF	93.4	21 - 178	
1,2,3,4,7,8-HxCDF	21.9				13C-1,2,3,4,7,8-HxCDF	89.4	26 - 152	
1,2,3,6,7,8-HxCDF	7.43				13C-1,2,3,6,7,8-HxCDF	83.3	26 - 123	
2,3,4,6,7,8-HxCDF	1.77			J	13C-2,3,4,6,7,8-HxCDF	86.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.702			J	13C-1,2,3,7,8,9-HxCDF	88.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	24.7				13C-1,2,3,4,6,7,8-HpCDF	87.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.11				13C-1,2,3,4,7,8,9-HpCDF	83.6	26 - 138	
OCDF	54.4				13C-OCDF	68.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	112	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 7.34

TOTALS			
Total TCDD	3.64		4.19
Total PeCDD	4.98		5.06
Total HxCDD	28.9		
Total HpCDD	198		
Total TCDF	12.7		14.0
Total PeCDF	23.2		24.1
Total HxCDF	52.9		53.3
Total HpCDF	60.0		

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-031SC-A-03-04-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-08 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.6 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 11:30	% Solids: 53.9	Date Analyzed: 05-Jun-21 06:03 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.439		IS 13C-2,3,7,8-TCDD	87.6	25 - 164	
1,2,3,7,8-PeCDD	0.627			J	13C-1,2,3,7,8-PeCDD	88.8	25 - 181	
1,2,3,4,7,8-HxCDD	0.840			J	13C-1,2,3,4,7,8-HxCDD	83.2	32 - 141	
1,2,3,6,7,8-HxCDD	4.69				13C-1,2,3,6,7,8-HxCDD	84.5	28 - 130	
1,2,3,7,8,9-HxCDD	2.34			J	13C-1,2,3,7,8,9-HxCDD	80.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	101				13C-1,2,3,4,6,7,8-HpCDD	77.6	23 - 140	
OCDD	1240				13C-OCDD	71.4	17 - 157	
2,3,7,8-TCDF	3.36				13C-2,3,7,8-TCDF	93.5	24 - 169	
1,2,3,7,8-PeCDF	5.44				13C-1,2,3,7,8-PeCDF	74.4	24 - 185	
2,3,4,7,8-PeCDF	2.51				13C-2,3,4,7,8-PeCDF	88.9	21 - 178	
1,2,3,4,7,8-HxCDF	16.0				13C-1,2,3,4,7,8-HxCDF	83.8	26 - 152	
1,2,3,6,7,8-HxCDF	4.11				13C-1,2,3,6,7,8-HxCDF	73.3	26 - 123	
2,3,4,6,7,8-HxCDF	1.68			J	13C-2,3,4,6,7,8-HxCDF	76.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.624			J	13C-1,2,3,7,8,9-HxCDF	83.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	21.1				13C-1,2,3,4,6,7,8-HpCDF	80.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.19				13C-1,2,3,4,7,8,9-HpCDF	81.1	26 - 138	
OCDF	53.8				13C-OCDF	71.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	118	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 6.55

TOTALS			
Total TCDD	2.63		4.56
Total PeCDD	5.56		7.04
Total HxCDD	40.1		
Total HpCDD	223		
Total TCDF	14.4		15.4
Total PeCDF	24.9		
Total HxCDF	46.2		46.7
Total HpCDF	58.3		

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-031SC-A-04-05-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-09 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.4 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 11:30	% Solids: 54.4	Date Analyzed: 05-Jun-21 06:48 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		1.10		IS 13C-2,3,7,8-TCDD	46.5	25 - 164	
1,2,3,7,8-PeCDD	1.89			J	13C-1,2,3,7,8-PeCDD	83.1	25 - 181	
1,2,3,4,7,8-HxCDD	1.69			J	13C-1,2,3,4,7,8-HxCDD	79.2	32 - 141	
1,2,3,6,7,8-HxCDD	13.4				13C-1,2,3,6,7,8-HxCDD	75.9	28 - 130	
1,2,3,7,8,9-HxCDD	5.91				13C-1,2,3,7,8,9-HxCDD	81.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	165				13C-1,2,3,4,6,7,8-HpCDD	76.1	23 - 140	
OCDD	1710				13C-OCDD	70.0	17 - 157	
2,3,7,8-TCDF	8.57				13C-2,3,7,8-TCDF	85.4	24 - 169	
1,2,3,7,8-PeCDF	8.39				13C-1,2,3,7,8-PeCDF	86.5	24 - 185	
2,3,4,7,8-PeCDF	4.74				13C-2,3,4,7,8-PeCDF	73.5	21 - 178	
1,2,3,4,7,8-HxCDF	13.1				13C-1,2,3,4,7,8-HxCDF	81.5	26 - 152	
1,2,3,6,7,8-HxCDF	4.19				13C-1,2,3,6,7,8-HxCDF	75.3	26 - 123	
2,3,4,6,7,8-HxCDF	2.37			J	13C-2,3,4,6,7,8-HxCDF	76.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.774			J	13C-1,2,3,7,8,9-HxCDF	77.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	21.7				13C-1,2,3,4,6,7,8-HpCDF	80.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.25				13C-1,2,3,4,7,8,9-HpCDF	79.4	26 - 138	
OCDF	50.7				13C-OCDF	68.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	64.8	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 11.0

TOTALS			
Total TCDD	14.2		15.5
Total PeCDD	14.1		17.0
Total HxCDD	109		
Total HpCDD	368		
Total TCDF	34.9		39.6
Total PeCDF	51.1		51.9
Total HxCDF	65.9		66.7
Total HpCDF	70.0		70.4

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-035SC-A-01-02-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-10 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.1 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 10:10	% Solids: 55.4	Date Analyzed: 05-Jun-21 07:32 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0810		IS 13C-2,3,7,8-TCDD	47.3	25 - 164	
1,2,3,7,8-PeCDD	0.184			J	13C-1,2,3,7,8-PeCDD	61.2	25 - 181	
1,2,3,4,7,8-HxCDD	0.327			J	13C-1,2,3,4,7,8-HxCDD	76.2	32 - 141	
1,2,3,6,7,8-HxCDD	1.44			J	13C-1,2,3,6,7,8-HxCDD	75.5	28 - 130	
1,2,3,7,8,9-HxCDD	0.745			J	13C-1,2,3,7,8,9-HxCDD	72.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	30.5				13C-1,2,3,4,6,7,8-HpCDD	71.4	23 - 140	
OCDD	304				13C-OCDD	58.5	17 - 157	
2,3,7,8-TCDF	0.707				13C-2,3,7,8-TCDF	77.2	24 - 169	
1,2,3,7,8-PeCDF	1.05			J	13C-1,2,3,7,8-PeCDF	79.2	24 - 185	
2,3,4,7,8-PeCDF	0.541			J	13C-2,3,4,7,8-PeCDF	64.2	21 - 178	
1,2,3,4,7,8-HxCDF	1.50			J	13C-1,2,3,4,7,8-HxCDF	76.8	26 - 152	
1,2,3,6,7,8-HxCDF	0.530			J	13C-1,2,3,6,7,8-HxCDF	67.5	26 - 123	
2,3,4,6,7,8-HxCDF	0.347			J	13C-2,3,4,6,7,8-HxCDF	75.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.307		13C-1,2,3,7,8,9-HxCDF	69.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	3.71				13C-1,2,3,4,6,7,8-HpCDF	73.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.452			J	13C-1,2,3,4,7,8,9-HpCDF	68.8	26 - 138	
OCDF	10.5				13C-OCDF	62.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	73.7	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 1.38

TOTALS		
Total TCDD	0.682	1.33
Total PeCDD	1.26	1.69
Total HxCDD	9.26	
Total HpCDD	62.8	
Total TCDF	2.37	
Total PeCDF	4.04	5.11
Total HxCDF	8.04	8.35
Total HpCDF	11.2	

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-035SC-A-02-03-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-11 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.1 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 10:10	% Solids: 55.2	Date Analyzed: 05-Jun-21 08:16 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.295		IS 13C-2,3,7,8-TCDD	54.4	25 - 164	
1,2,3,7,8-PeCDD	ND		0.407		13C-1,2,3,7,8-PeCDD	89.0	25 - 181	
1,2,3,4,7,8-HxCDD	0.613			J	13C-1,2,3,4,7,8-HxCDD	89.2	32 - 141	
1,2,3,6,7,8-HxCDD	2.66				13C-1,2,3,6,7,8-HxCDD	88.2	28 - 130	
1,2,3,7,8,9-HxCDD	1.33			J	13C-1,2,3,7,8,9-HxCDD	86.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	63.6				13C-1,2,3,4,6,7,8-HpCDD	80.4	23 - 140	
OCDD	635				13C-OCDD	73.7	17 - 157	
2,3,7,8-TCDF	4.51				13C-2,3,7,8-TCDF	95.2	24 - 169	
1,2,3,7,8-PeCDF	11.3				13C-1,2,3,7,8-PeCDF	76.6	24 - 185	
2,3,4,7,8-PeCDF	3.70				13C-2,3,4,7,8-PeCDF	93.2	21 - 178	
1,2,3,4,7,8-HxCDF	34.4				13C-1,2,3,4,7,8-HxCDF	88.8	26 - 152	
1,2,3,6,7,8-HxCDF	7.46				13C-1,2,3,6,7,8-HxCDF	90.1	26 - 123	
2,3,4,6,7,8-HxCDF	1.68			J	13C-2,3,4,6,7,8-HxCDF	88.5	28 - 136	
1,2,3,7,8,9-HxCDF	1.78			J	13C-1,2,3,7,8,9-HxCDF	86.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	12.1				13C-1,2,3,4,6,7,8-HpCDF	82.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.24				13C-1,2,3,4,7,8,9-HpCDF	82.3	26 - 138	
OCDF	25.8				13C-OCDF	70.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	77.0	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 7.88

TOTALS			
Total TCDD	6.51		6.81
Total PeCDD	4.13		4.87
Total HxCDD	23.1		23.6
Total HpCDD	141		
Total TCDF	15.8		16.3
Total PeCDF	33.5		33.8
Total HxCDF	66.0		66.2
Total HpCDF	36.9		

DL - Sample specific estimated detection limit
 EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
 The results are reported in dry weight. The sample size is reported in wet weight.
 Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-035SC-A-03-04-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-12 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.6 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 10:10	% Solids: 53.8	Date Analyzed : 05-Jun-21 09:00 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.155		IS 13C-2,3,7,8-TCDD	56.8	25 - 164	
1,2,3,7,8-PeCDD	0.291			J	13C-1,2,3,7,8-PeCDD	71.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND		0.314		13C-1,2,3,4,7,8-HxCDD	72.1	32 - 141	
1,2,3,6,7,8-HxCDD	1.71			J	13C-1,2,3,6,7,8-HxCDD	73.7	28 - 130	
1,2,3,7,8,9-HxCDD	0.897			J	13C-1,2,3,7,8,9-HxCDD	72.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	43.0				13C-1,2,3,4,6,7,8-HpCDD	65.0	23 - 140	
OCDD	479				13C-OCDD	58.2	17 - 157	
2,3,7,8-TCDF	1.62				13C-2,3,7,8-TCDF	77.9	24 - 169	
1,2,3,7,8-PeCDF	2.14			J	13C-1,2,3,7,8-PeCDF	80.6	24 - 185	
2,3,4,7,8-PeCDF	1.32			J	13C-2,3,4,7,8-PeCDF	79.8	21 - 178	
1,2,3,4,7,8-HxCDF	4.90				13C-1,2,3,4,7,8-HxCDF	74.1	26 - 152	
1,2,3,6,7,8-HxCDF	1.24			J	13C-1,2,3,6,7,8-HxCDF	63.8	26 - 123	
2,3,4,6,7,8-HxCDF	0.635			J	13C-2,3,4,6,7,8-HxCDF	74.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.250		13C-1,2,3,7,8,9-HxCDF	74.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	10.6				13C-1,2,3,4,6,7,8-HpCDF	70.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.28			J	13C-1,2,3,4,7,8,9-HpCDF	68.8	26 - 138	
OCDF	46.2				13C-OCDF	60.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	89.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 2.56

TOTALS		
Total TCDD	0.835	1.70
Total PeCDD	1.24	2.26
Total HxCDD	13.0	13.8
Total HpCDD	92.1	
Total TCDF	5.90	6.30
Total PeCDF	10.1	
Total HxCDF	17.2	17.5
Total HpCDF	35.7	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

Sample ID: USMPDI-035SC-A-04-05-210504 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2105042-13 Date Received: 06-May-2021 9:48
Project: GascoSiltronic: US Moorings	Sample Size: 18.8 g	QC Batch: B1E0224 Date Extracted: 26-May-2021 7:23
Date Collected: 04-May-2021 10:10	% Solids: 53.1	Date Analyzed : 09-Jun-21 14:39 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.722		IS 13C-2,3,7,8-TCDD	127	25 - 164	
1,2,3,7,8-PeCDD	ND		1.90		13C-1,2,3,7,8-PeCDD	80.3	25 - 181	
1,2,3,4,7,8-HxCDD	3.23				13C-1,2,3,4,7,8-HxCDD	76.2	32 - 141	
1,2,3,6,7,8-HxCDD	19.4				13C-1,2,3,6,7,8-HxCDD	75.3	28 - 130	
1,2,3,7,8,9-HxCDD	8.45				13C-1,2,3,7,8,9-HxCDD	75.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	352				13C-1,2,3,4,6,7,8-HpCDD	72.6	23 - 140	
OCDD	3810				13C-OCDD	65.3	17 - 157	
2,3,7,8-TCDF	14.0				13C-2,3,7,8-TCDF	88.2	24 - 169	
1,2,3,7,8-PeCDF	36.5				13C-1,2,3,7,8-PeCDF	78.2	24 - 185	
2,3,4,7,8-PeCDF	13.8				13C-2,3,4,7,8-PeCDF	77.3	21 - 178	
1,2,3,4,7,8-HxCDF	67.0				13C-1,2,3,4,7,8-HxCDF	84.5	26 - 152	
1,2,3,6,7,8-HxCDF	15.8				13C-1,2,3,6,7,8-HxCDF	84.9	26 - 123	
2,3,4,6,7,8-HxCDF	5.40				13C-2,3,4,6,7,8-HxCDF	87.2	28 - 136	
1,2,3,7,8,9-HxCDF	2.50				13C-1,2,3,7,8,9-HxCDF	83.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	55.6				13C-1,2,3,4,6,7,8-HpCDF	76.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	10.5				13C-1,2,3,4,7,8,9-HpCDF	77.1	26 - 138	
OCDF	136				13C-OCDF	69.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	148	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)

TEQMinWHO2005Dioxin 24.2

TOTALS		
Total TCDD	5.46	7.30
Total PeCDD	17.5	20.3
Total HxCDD	154	
Total HpCDD	784	
Total TCDF	51.9	56.9
Total PeCDF	114	115
Total HxCDF	172	175
Total HpCDF	164	

DL - Sample specific estimated detection limit
EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit
The results are reported in dry weight. The sample size is reported in wet weight.
Min-The TEQ is calculated using zero for the concentration of congeners that are not detected.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-26
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Massachusetts Department of Environmental Protection	M-CA413
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1980678
New Hampshire Environmental Accreditation Program	207720
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-016
Pennsylvania Department of Environmental Protection	017
Texas Commission on Environmental Quality	T104704189-21-12
Vermont Department of Health	VT-4042
Virginia Department of General Services	10769
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters are located in the Quality Assurance office and are available upon request.

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p- Dioxins & Polychlorinated Dibenzofurans	EPA 23
Polychlorinated Dibenzodioxins in Ambient Air by GC/HRMS	EPA TO-9A

MATRIX: Biological Tissue	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Drinking Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613/1613B
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537.1
Determination of Per- and Polyfluoroalkyl Substances in Drinking Water by Isotope Dilution Anion Exchange Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry	EPA 533
Perfluorooctanesulfonate (PFOS) and Perfluorooctanoate (PFOA) - Method for Unfiltered Samples Using Solid Phase Extraction and Liquid Chromatography/Mass Spectrometry	ISO 25101 2009

MATRIX: Non-Potable Water	
Description of Test	Method
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Dioxin by GC/HRMS	EPA 613
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A

MATRIX: Solids	
Description of Test	Method
Tetra-Octa Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613
Tetra- through Octa-Chlorinated Dioxins and Furans by Isotope Dilution GC/HRMS	EPA 1613B
Brominated Diphenyl Ethers by HRGC/HRMS	EPA 1614A
Chlorinated Biphenyl Congeners in Water, Soil, Sediment, and Tissue by GC/HRMS	EPA 1668A/C
Pesticides in Water, Soil, Sediment, Biosolids, and Tissue by HRGC/HRMS	EPA 1699
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Polychlorinated Dibenzo-p-Dioxins and Polychlorinated Dibenzofurans by GC/HRMS	EPA 8280A/B
Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by GC/HRMS	EPA 8290/8290A



ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2105042 4.6°C

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20210504-121002
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
001	USMPDI-028SC-A-01-02-210504	N	SE	05/04/2021	8:50	2	<input checked="" type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
002	USMPDI-028SC-A-02-03-210504	N	SE	05/04/2021	8:50	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
003	USMPDI-028SC-A-03-04-210504	N	SE	05/04/2021	8:50	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
004	USMPDI-028SC-A-04-05-210504	N	SE	05/04/2021	8:50	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
005	USMPDI-1028SC-A-02-03-210504	FD	SE	05/04/2021		1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
006	USMPDI-031SC-A-01-02-210504	N	SE	05/04/2021	11:30	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
007	USMPDI-031SC-A-02-03-210504	N	SE	05/04/2021	11:30	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C

Comment:							
Relinquished By:		Received By:		Relinquished By:		Received By:	
Signature		Signature		Signature		Signature	
Print Name	S. Shorrock	Print Name	Justin Briscoe	Print Name		Print Name	
Company	Anchor PEA	Company	VAT	Company		Company	
Date/Time	5/5/21 @ 09:30	Date/Time	05/04/21 09:48	Date/Time		Date/Time	

Date Printed: 5/4/2021

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Page 1 of 2



ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2105042 4.6°C

POC: Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20210504-121002
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	USMPDI-031SC-A-02-03-210504	N	SE	05/04/2021	11:30	1	<input type="checkbox"/>	Total solids (VISTA)	SM2540G	30	4°C
008	USMPDI-031SC-A-03-04-210504	N	SE	05/04/2021	11:30	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
009	USMPDI-031SC-A-04-05-210504	N	SE	05/04/2021	11:30	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
010	USMPDI-035SC-A-01-02-210504	N	SE	05/04/2021	10:10	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
011	USMPDI-035SC-A-02-03-210504	N	SE	05/04/2021	10:10	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
012	USMPDI-035SC-A-03-04-210504	N	SE	05/04/2021	10:10	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
013	USMPDI-035SC-A-04-05-210504	N	SE	05/04/2021	10:10	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:					
Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: <i>[Signature]</i>	Signature: <i>[Signature]</i>	Signature:	Signature:	Signature:	Signature:
Print Name: <i>Sasha Napwell</i>	Print Name: <i>Justin Briseno</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor QEA</i>	Company: <i>VIA</i>	Company:	Company:	Company:	Company:
Date/Time: <i>5/5/21 @ 09:30</i>	Date/Time: <i>05/06/21 09:48</i>	Date/Time:	Date/Time:	Date/Time:	Date/Time:

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2105042

 TAT STD

Samples Arrival:	Date/Time <u>05/06/21 09:48</u>		Initials: <u>(Signature)</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>N/A</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Techni Ice	<input type="checkbox"/> Dry Ice	<input type="checkbox"/> None
Temp °C: <u>4.6</u> (uncorrected)	Probe used: <input checked="" type="checkbox"/> Y / N			Thermometer ID: <u>DT-3</u>			
Temp °C: <u>4.6</u> (corrected)							

	YES	NO	NA		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Airbill <u>—</u> Trk # <u>7736 4258 3258</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain	<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Logged In:	Date/Time <u>05/06/21 12:44</u>		Initials: <u>(Signature)</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>D-5</u>						
COC Anomaly/Sample Acceptance Form completed?							<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2105042

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2105042-01	A USMPDI-028SC-A-01-02-2105 04	001	04-May-21 08:50	Amber Glass, 120 mL	Solid	DUP
2105042-01	B USMPDI-028SC-A-01-02-2105 04	001	04-May-21 08:50	Amber Glass, 120 mL	Solid	DUP
2105042-02	A USMPDI-028SC-A-02-03-2105 04	002	04-May-21 08:50	Amber Glass, 120 mL	Solid	
2105042-03	A USMPDI-028SC-A-03-04-2105 04	003	04-May-21 08:50	Amber Glass, 120 mL	Solid	
2105042-04	A USMPDI-028SC-A-04-05-2105 04	004	04-May-21 08:50	Amber Glass, 120 mL	Solid	
2105042-05	A USMPDI-1028SC-A-02-03-210 504	005	04-May-21 08:50 ^{08:50}	Amber Glass, 120 mL	Solid	(A)
2105042-06	A USMPDI-031SC-A-01-02-2105 04	006	04-May-21 11:30	Amber Glass, 120 mL	Solid	
2105042-07	A USMPDI-031SC-A-02-03-2105 04	007	04-May-21 11:30	Amber Glass, 120 mL	Solid	
2105042-08	A USMPDI-031SC-A-03-04-2105 04	008	04-May-21 11:30	Amber Glass, 120 mL	Solid	
2105042-09	A USMPDI-031SC-A-04-05-2105 04	009	04-May-21 11:30	Amber Glass, 120 mL	Solid	
2105042-10	A USMPDI-035SC-A-01-02-2105 04	010	04-May-21 10:10	Amber Glass, 120 mL	Solid	
2105042-11	A USMPDI-035SC-A-02-03-2105 04	011	04-May-21 10:10	Amber Glass, 120 mL	Solid	
2105042-12	A USMPDI-035SC-A-03-04-2105 04	012	04-May-21 10:10	Amber Glass, 120 mL	Solid	
2105042-13	A USMPDI-035SC-A-04-05-2105 04	013	04-May-21 10:10	Amber Glass, 120 mL	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?		✓	✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		

Comments:

(A) Sample label lists "8:50" as collection time. Reconciled by sample ID. Pulled time from sample label.

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None ^(A) Other

Verified by/Date: 05/04/21

EXTRACTION INFORMATION

Process Sheet
Workorder: 2105042

Prep Expiration: 2022-05-04
 Client: Anchor QEA, LLC

Workorder Due: 03-Jun-21 00:00

TAT: 28

Method: **1613 Full List**
 Matrix: **Solid**
 Client Matrix: Sediment
 Also run: **Percent Solids**

Prep Batch: B1E0224

Prep Data Entered: 05/31/21 RR
Date and Initials

Initial Sequence: SIF003

LabSampleID	A/B	Prep Rec	Spike Rec	ClientSampleID	Date Received	Location	Comments
2105042-01		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-028SC-A-01-02-210504	06-May-21 09:48	WR-2 D-5	DUP
2105042-02		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-028SC-A-02-03-210504	06-May-21 09:48	WR-2 D-5	
2105042-03		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-028SC-A-03-04-210504	06-May-21 09:48	WR-2 D-5	
2105042-04		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-028SC-A-04-05-210504	06-May-21 09:48	WR-2 D-5	
2105042-05		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-1028SC-A-02-03-210504	06-May-21 09:48	WR-2 D-5	
2105042-06		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-031SC-A-01-02-210504	06-May-21 09:48	WR-2 D-5	
2105042-07		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-031SC-A-02-03-210504	06-May-21 09:48	WR-2 D-5	
2105042-08		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-031SC-A-03-04-210504	06-May-21 09:48	WR-2 D-5	
2105042-09		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-031SC-A-04-05-210504	06-May-21 09:48	WR-2 D-5	
2105042-10		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-035SC-A-01-02-210504	06-May-21 09:48	WR-2 D-5	
2105042-11		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-035SC-A-02-03-210504	06-May-21 09:48	WR-2 D-5	
2105042-12		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-035SC-A-03-04-210504	06-May-21 09:48	WR-2 D-5	
2105042-13		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	USMPDI-035SC-A-04-05-210504	06-May-21 09:48	WR-2 D-5	

WO Comments: 1613: 10g dw

Pre-Prep Check Out: TC 05/12/21
 Pre-Prep Check In: TC 05/12/21

Prep Check Out: [Signature] 05/24/21
 Prep Check In: [Signature] 05/26/21

Prep Reconciled Initials/Date: TC 05/12/
 Spike Reconciled Initials/Date: OF 05
 VialBoxID: SOUP

PREPARATION BENCH SHEET

Matrix: Solid

B1E0224

Chemist: OF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 26-May-21 07:23

Method: 1613 2.3.7.8-TCDD Only

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
A1	B1E0224-BLK1	NA	(10.00)	OF <u>05/26/21</u>	RR ME <u>05/27/21</u>	NA	RR <u>05/28/21</u>	RR <u>05/28/21</u>	RR <u>05/31/21</u>	RR ME <u>05/31/21</u>
A2	B1E0224-BSI	↓	(10.00)							
A3	B1E0224-DUP1 2105042-01	19.70	19.74				Brown/ yellow	Brown/ yellow		
A4	2105042-01	(7) 19.70	19.75							
A9	2105042-02	18.05	18.05							
A6	2105042-03	18.02	18.07							
B10	2105042-04	17.26	17.26							
B11	2105042-05	17.86	17.87							
B12	2105042-06 (3)	19.25	19.27							
C1	2105042-07	18.77	18.79							
C2	2105042-08	18.57	18.56							
C3	2105042-09	18.38	18.38							
C4	2105042-10 (3)	18.05	18.08							
C5	2105042-11	18.10	18.13							
C6	2105042-12 (3)	18.58	18.59							

IS: <u>21C0101, 10ML</u> (V8)	Cycle Time	APP: SEFUN (SOX SDS)	Check Out: <u>05/26/21</u>	Soxhlet Siphoned Chemist/Date: <u>05/26/21</u>	Notes: (7) <u>00 05/27/21</u> * RR <u>05/28/21</u>
NS: <u>20F0107, 10ML</u> (V4)	Start Date/Time: <u>05/26/21/1455</u>	SOLV: <u>Toluene</u>	Check In: <u>05/26/21</u>	Vial Transfer Chemist/Date: <u>RR 05/31/21</u>	
PS/CRS: <u>20H2501, 10ML</u> (V1)	Stop Date/Time: <u>05/27/21/0730</u>	Other: <u>NA</u>	Balance ID: <u>HRMS-8</u>		
RS: <u>20H2502, 10ML</u> (V3)		Final Volume(s) <u>C14</u> <u>20ML</u>			
Diox/F PCB PAH PEST PBDE HCB					

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist
- 7 = Soxhlet approached dryness

PREPARATION BENCH SHEET

Matrix: Solid

B1E0224

Chemist: OF

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 26-May-21 07:23

Method: 1613 2.3.7.8-TCDD Only

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:	IVA	RR 05/28/21	RR 05/28/21	RR 05/31/21	RS CHEM/WIT DATE
					CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	
7	2105042-13	18.93	19.93	OF 05/26/21	RR ME 05/27/21	NA	RR 05/28/21	RR 05/28/21	RR 05/31/21	RR ME 05/31/21
8	2105218-01 (3)	33.04	33.08	↓	↓	↓	↓ Dark Brown	↓	NA	↓

IS: <u>21C0101, 10mL</u> (V8)	Cycle Time	APP: SEFUN SOX SDS	Check Out: <u>05/26/21</u>	Soxhlet Siphoned Chemist/Date: <u>05/26/21</u>	Notes: (3) RR 05/27/21
NS: <u>20F0107, 10mL</u> (V4)	Start Date/Time	SOLV: <u>Toluene</u>	Check In: <u>05/26/21</u>	Vial Transfer Chemist/Date: <u>RR 05/31/21</u>	
PS/CRS: <u>20H2501, 10mL</u> (V1)	Stop Date/Time	Other: <u>NA</u>	Balance ID: <u>HRMS-8</u>		
RS: <u>20H2502, 10mL</u> (V3)		Final Volume(s) <u>CU 20mL</u>			
Diox/F PCB PAH PEST PBDE HCB					

Comments:

- 1 = Sample approached dryness on rotovap
- 2 = Sample bumped on rotovap; lost < 5%
- 3 = Sample poured through Na2SO4 to remove water
- 4 = Precipitate present at Final Volume
- 5 = Sample homogenized in secondary container
- 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist
- 7 = Soxhlet approached dryness

Batch: B1E0224

Matrix: Solid

LabNumber	WetWeight Initial (g)	% Solids (Extraction Solids)	DryWeight Initial (g)	Final (uL)	Extracted	Ext By	Spike	SpikeAmount (uL)	ClientMatrix	Analysis
2105042-01	19.75 ✓	50.74947	10.0230	20 ✓	26-May-21 07:23	JG ✓			Sediment	1613 Full List
2105042-01	19.75 ✓			20	26-May-21 07:23	JG			Sediment	1613 2,3,7,8-TCDD Only
2105042-02	18.05 ✓	55.39419	9.9987	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-03	18.07 ✓	55.50352	10.0295	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-04	17.26 ✓	57.92079	9.9971	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-05	17.87 ✓	55.98291	10.0041	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-06	19.27 ✓	51.93798	10.0084	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-07	18.79 ✓	53.28597	10.0124	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-08	18.56 ✓	53.86064	9.9965	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-09	18.38 ✓	54.4086	10.0003	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-10	18.08 ✓	55.41044	10.0182	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-11	18.13 ✓	55.23809	10.0147	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-12	18.59 ✓	53.8175	10.0047	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105042-13	18.83 ✓	53.11284	10.0011	20	26-May-21 07:23	JG			Sediment	1613 Full List
2105218-01	33.08 ✓	15.13353	5.0062	20	26-May-21 07:23	JG			Sludge	1613 2,3,7,8-TCDD Only
B1E0224-BLK1	10 ✓			20	26-May-21 07:23	JG				QC
B1E0224-BS1	10 ✓			20	26-May-21 07:23	JG	20F0107 ✓	10 ✓		QC
B1E0224-DUP1	19.74 ✓	50.74947	10.018	20 ✓	26-May-21 07:23	JG ✓				QC

9/23/2021

All bolded data on report verified against written benchsheet by (initial/date) RP/05/31/21

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B1E0073

Analyst: TC ✓	Test Code: %Moist/%Solids	Data Entry Verified by (Initial and Date) <i>JH 05/26/21</i>
Analyte:	Units: %	
Oven ID: 01 02 ✓	Dried at 110°C±5°C	

Inst HRMS-9 ✓

Date/Time IN: 5/12/21 15:15 ✓ / Date/Time OUT: 05/26/21 0705 ✓

B		C		D		E		F		G		H		I		K		L		M		N		O		P	
Particle Size		SampID		SampType		Initial and Date: TC 05/12/21 ✓		JG 05/26/21 ✓		Dry Sample Weight (g)		%Solids RawVal		Visual Inspection		Cl-		pH Before		pH After		Acid Added		Sample Homogenized*			
						Pan Tare Wt. (gms)		Wet Pan and Sample Weight (g)		Dry Pan and Sample Weight (g)																	
		2105042-01		Sample		1.2700 ✓	5.9400 ✓	3.6400 ✓	2.3700	50.75	Mud ✓	N/A	N/A	N/A	N/A	Yes ✓											
		2105042-02		Sample		1.2700 ✓	6.0900 ✓	3.9400 ✓	2.6700	55.39	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-03		Sample		1.2700 ✓	5.5400 ✓	3.6400 ✓	2.3700	55.50	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-04		Sample		1.2600 ✓	5.3000 ✓	3.6000 ✓	2.3400	57.92	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-05		Sample		1.2600 ✓	5.9400 ✓	3.8800 ✓	2.6200	55.98	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-06		Sample		1.2600 ✓	6.4200 ✓	3.9400 ✓	2.6800	51.94	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-07		Sample		1.2600 ✓	6.8900 ✓	4.2600 ✓	3.0000	53.29	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-08		Sample		1.2800 ✓	6.5900 ✓	4.1400 ✓	2.8600	53.86	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-09		Sample		1.2700 ✓	5.9200 ✓	3.8000 ✓	2.5300	54.41	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-10		Sample		1.2700 ✓	6.6300 ✓	4.2400 ✓	2.9700	55.41	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-11		Sample		1.2600 ✓	6.5100 ✓	4.1600 ✓	2.9000	55.24	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-12		Sample		1.2700 ✓	6.6400 ✓	4.1600 ✓	2.8900	53.82	Mud	N/A	N/A	N/A	N/A	Yes											
		2105042-13		Sample		1.2700 ✓	6.4100 ✓	4.0000 ✓	2.7300	53.11	Mud ✓	N/A	N/A	N/A	N/A	Yes ✓											

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B1E0073

Analyst: TC	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>NA</u>
Analyte: Dried at 110°C+/-5°C	Units: %	
Oven ID: 01 <u>02</u>		

Inst **HRMS-9**

Date/Time IN: 05/12/21 15:15
Date/Time OUT: 05/26/21 07:05

B		C	D	E	F	G	H	I	K	L	M	N	O	P
Particle Size	SampleID	SampType	Initial and Date: <u>TC 05/12/21</u>		<u>AK 05/26/21</u>		Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl- Before	pH After	Acid Added	Sample Homogenized*	
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)									
	2105042-01	Sample	1.27	5.94	3.64				Mud					
	2105042-02	Sample	1.27	6.09	3.94									
	2105042-03	Sample	1.27	5.54	3.64									
	2105042-04	Sample	1.26	5.30	3.60									
	2105042-05	Sample	1.26	5.94	3.58									
	2105042-06	Sample	1.26	6.42	3.94									
	2105042-07	Sample	1.26	6.89	4.26									
	2105042-08	Sample	1.28	5.59	4.14									
	2105042-09	Sample	1.27	5.92	3.80									
	2105042-10	Sample	1.27	6.63	4.24									
	2105042-11	Sample	1.26	6.51	4.16									
	2105042-12	Sample	1.27	6.64	4.16									
	2105042-13	Sample	1.27	6.41	4.00									

*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

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HW 06/01/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

C706/04/2021

Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.929	1.000	26.713		1.001				0.157	
2	2 1,2,3,7,8-PeCDD			NO	0.826	1.000	31.121		1.001				0.272	
3	3 1,2,3,4,7,8-HxCDD			NO	0.972	1.000	34.487		1.001				0.466	
4	4 1,2,3,6,7,8-HxCDD			NO	0.877	1.000	34.612		1.001				0.477	
5	5 1,2,3,7,8,9-HxCDD			NO	0.874	1.000	34.895		1.000				0.475	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.899	1.000	38.355		1.000				0.496	
7	7 OCDD			NO	0.852	1.000	41.534		1.000				0.819	
8	8 2,3,7,8-TCDF			NO	0.747	1.000	26.063		1.000				0.104	
9	9 1,2,3,7,8-PeCDF	3.94e2	1.19	YES	0.877	1.000	29.902	29.91	1.000	1.001	0.42553		0.0813	0.380
10	10 2,3,4,7,8-PeCDF			NO	0.962	1.000	30.931		1.001				0.158	
11	11 1,2,3,4,7,8-HxCDF			NO	0.920	1.000	33.523		1.000				0.152	
12	12 1,2,3,6,7,8-HxCDF			NO	0.936	1.000	33.680		1.001				0.172	
13	13 2,3,4,6,7,8-HxCDF			NO	0.973	1.000	34.382		1.001				0.167	
14	14 1,2,3,7,8,9-HxCDF	3.62e2	1.05	YES	0.940	1.000	35.450	35.45	1.000	1.000	0.66343		0.134	0.612
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	1.000	37.120		1.000				0.219	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.05	1.000	39.025		1.000				0.236	
17	17 OCDF			NO	0.771	1.000	41.859		1.000				0.413	
18	18 13C-2,3,7,8-TCDD	1.66e6	0.78	NO	1.10	1.000	26.654	26.68	1.027	1.028	1917.7	95.9	0.700	
19	19 13C-1,2,3,7,8-PeCDD	1.44e6	0.65	NO	0.864	1.000	31.033	31.09	1.196	1.198	2133.7	107	1.08	
20	20 13C-1,2,3,4,7,8-HxCDD	1.01e6	1.29	NO	0.746	1.000	34.453	34.47	1.014	1.014	1678.8	83.9	2.09	
21	21 13C-1,2,3,6,7,8-HxCDD	1.13e6	1.28	NO	0.847	1.000	34.572	34.59	1.017	1.018	1662.1	83.1	1.84	
22	22 13C-1,2,3,7,8,9-HxCDD	1.13e6	1.26	NO	0.868	1.000	34.871	34.88	1.026	1.027	1622.5	81.1	1.80	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.33e5	1.08	NO	0.664	1.000	38.218	38.34	1.125	1.128	1561.1	78.1	4.48	
24	24 13C-OCDD	1.33e6	0.89	NO	0.561	1.000	41.165	41.53	1.211	1.222	2947.9	73.7	5.21	
25	25 13C-2,3,7,8-TCDF	2.65e6	0.78	NO	1.09	1.000	26.044	26.06	1.003	1.004	1871.7	93.6	0.928	
26	26 13C-1,2,3,7,8-PeCDF	2.11e6	1.60	NO	0.809	1.000	29.764	29.90	1.147	1.152	2010.5	101	2.06	
27	27 13C-2,3,4,7,8-PeCDF	2.06e6	1.59	NO	0.803	1.000	30.724	30.91	1.184	1.191	1977.1	98.9	2.08	
28	28 13C-1,2,3,4,7,8-HxCDF	1.47e6	0.51	NO	1.01	1.000	33.525	33.51	0.987	0.986	1813.4	90.7	2.35	
29	29 13C-1,2,3,6,7,8-HxCDF	1.37e6	0.51	NO	1.07	1.000	33.654	33.66	0.990	0.990	1587.9	79.4	2.21	
30	30 13C-2,3,4,6,7,8-HxCDF	1.33e6	0.52	NO	0.910	1.000	34.344	34.36	1.011	1.011	1819.4	91.0	2.61	
31	31 13C-1,2,3,7,8,9-HxCDF	1.16e6	0.52	NO	0.828	1.000	35.422	35.44	1.042	1.043	1746.7	87.3	2.86	

Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

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Printed: Tuesday, June 01, 2021 16:25:53 Pacific Daylight Time

Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.11e5	0.45	NO	0.661	1.000	37.029	37.10	1.090	1.092	1716.7	85.8	3.48	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.42e5	0.43	NO	0.566	1.000	38.789	39.01	1.141	1.148	1853.9	92.7	4.07	
34	34 13C-OCDF	1.73e6	0.89	NO	0.663	1.000	41.552	41.85	1.223	1.231	3243.1	81.1	3.35	
35	35 37Cl-2,3,7,8-TCDD	1.57e6			2.07	1.000	26.854	26.70	1.035	1.029	971.63	121	0.246	
36	36 13C-1,2,3,4-TCDD	1.56e6	0.80	NO	1.00	1.000	26.070	25.96	1.000	1.000	2000.0	100	0.773	
37	37 13C-1,2,3,4-TCDF	2.59e6	0.79	NO	1.00	1.000	24.760	24.63	1.000	1.000	2000.0	100	1.01	
38	38 13C-1,2,3,4,6,9-HxCDF	1.61e6	0.51	NO	1.00	1.000	34.040	33.98	1.000	1.000	2000.0	100	2.37	
39	39 Total Tetra-Dioxins				0.929	1.000	24.620		0.000				0.0795	
40	40 Total Penta-Dioxins				0.826	1.000	29.960		0.000				0.0873	
41	41 Total Hexa-Dioxins				0.877	1.000	33.635		0.000				0.294	
42	42 Total Hepta-Dioxins				0.899	1.000	37.640		0.000				0.307	
43	43 Total Tetra-Furans				0.747	1.000	23.610		0.000				0.0542	
44	44 1st Func. Penta-Furans				0.877	1.000	27.620		0.000				0.0342	
45	45 Total Penta-Furans				0.877	1.000	29.275		0.000		0.00000		0.0795	0.380
46	46 Total Hexa-Furans				0.973	1.000	33.555		0.000		0.00000		0.103	0.612
47	47 Total Hepta-Furans				1.05	1.000	37.835		0.000				0.153	

Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

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Printed: Tuesday, June 01, 2021 16:25:53 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

Last Altered: Tuesday, June 01, 2021 16:25:34 Pacific Daylight Time
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Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	29.91	5.050e3	4.675e3	2.140e2	1.800e2	1.19	YES	3.940e2	0.00000	0.38021	0.0813

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.45	5.046e3	4.355e3	1.851e2	1.771e2	1.05	YES	3.621e2	0.00000	0.61242	0.134

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

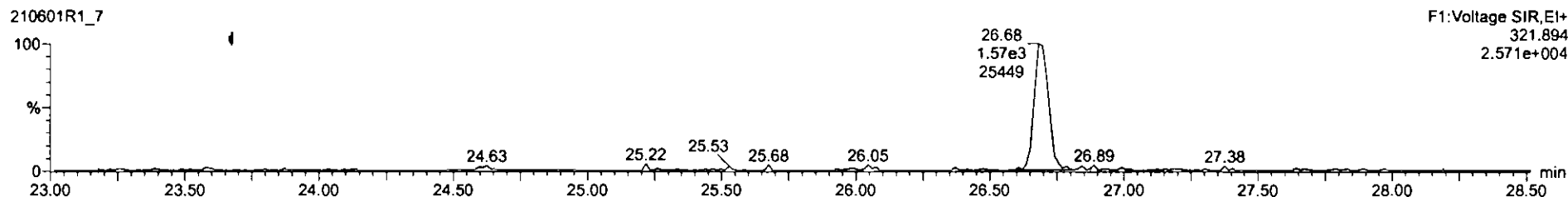
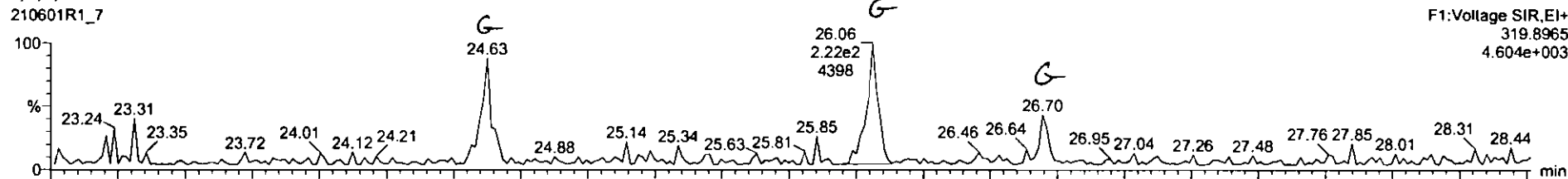
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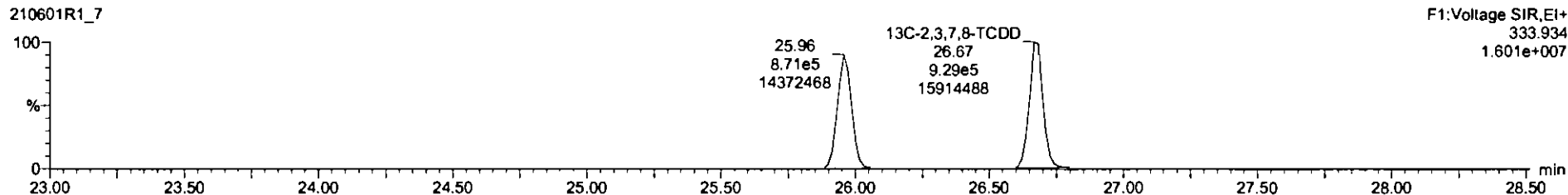
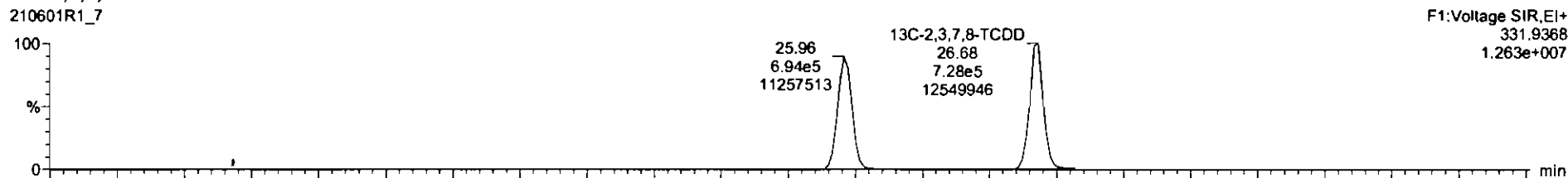
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Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD



13C-2,3,7,8-TCDD

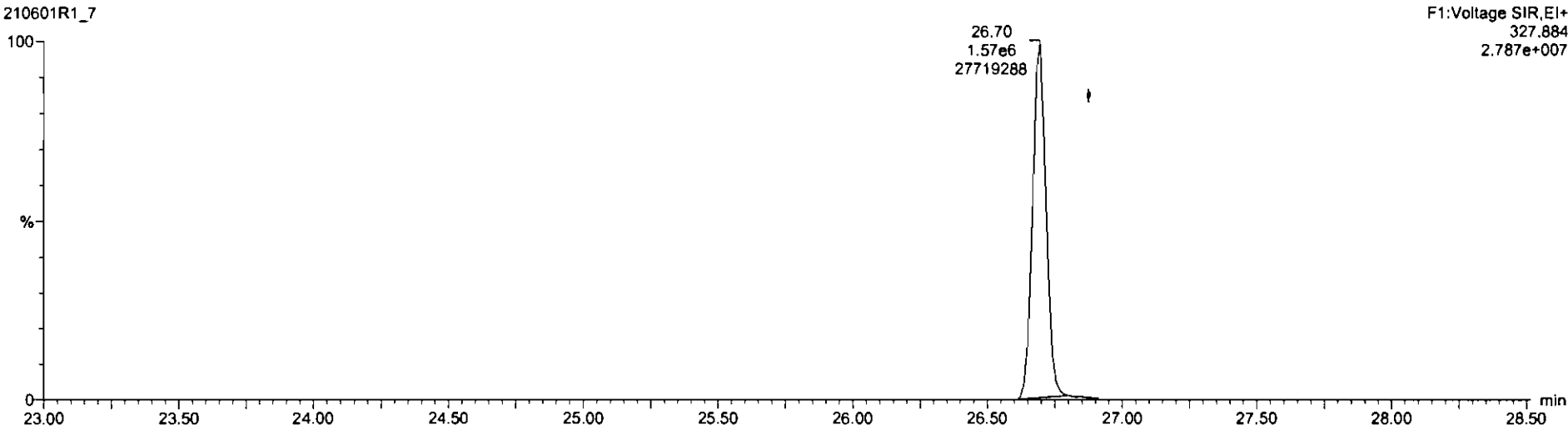


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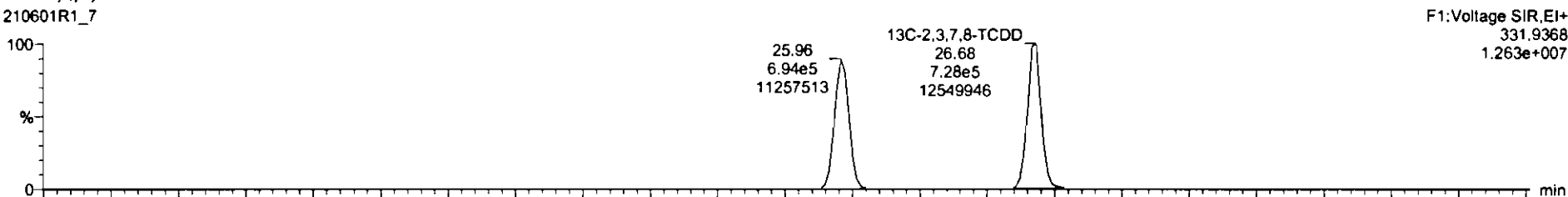
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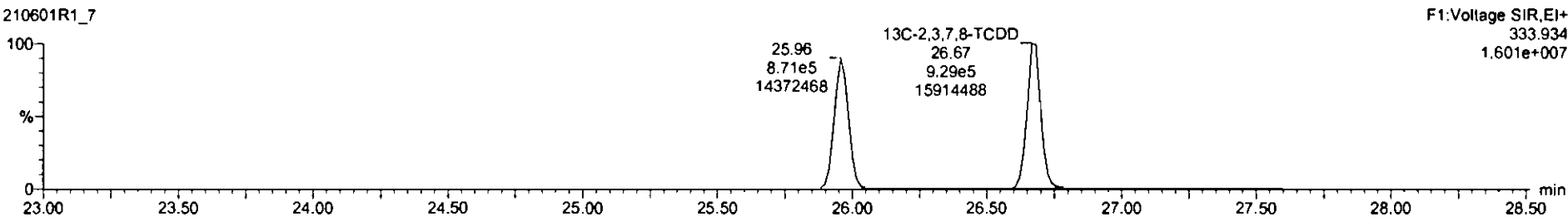
37Cl-2,3,7,8-TCDD
210601R1_7



13C-1,2,3,4-TCDD
210601R1_7



210601R1_7



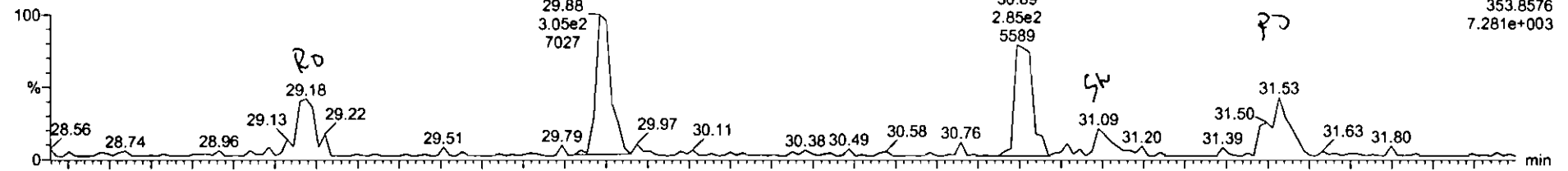
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Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

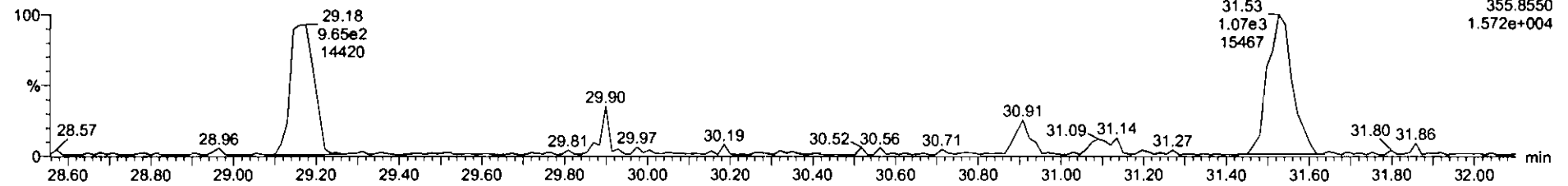
1,2,3,7,8-PeCDD

210601R1_7



F2:Voltage SIR,EI+
353.8576
7.281e+003

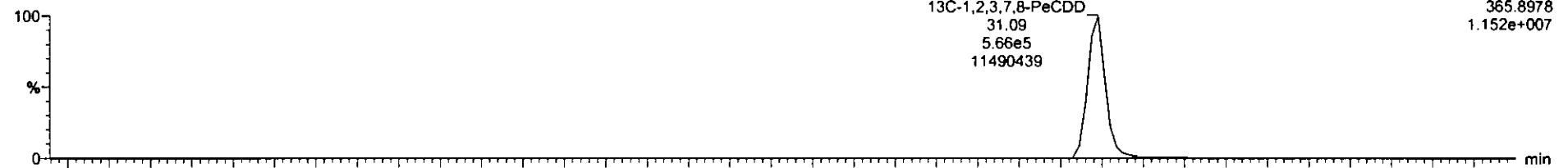
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F2:Voltage SIR,EI+
355.8550
1.152e+004

13C-1,2,3,7,8-PeCDD

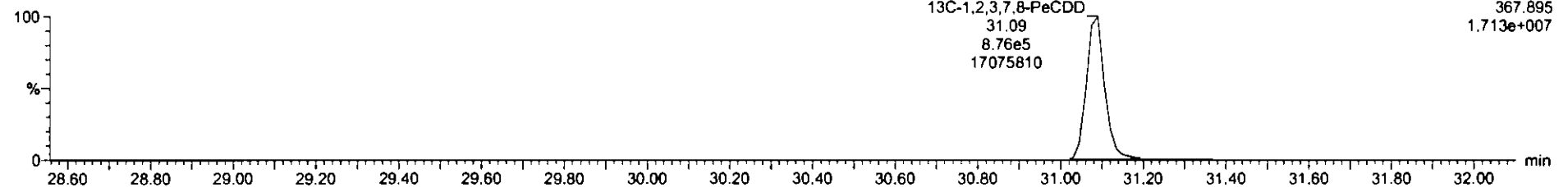
210601R1_7



13C-1,2,3,7,8-PeCDD
31.09
5.66e5
11490439

F2:Voltage SIR,EI+
365.8978
1.152e+007

210601R1_7



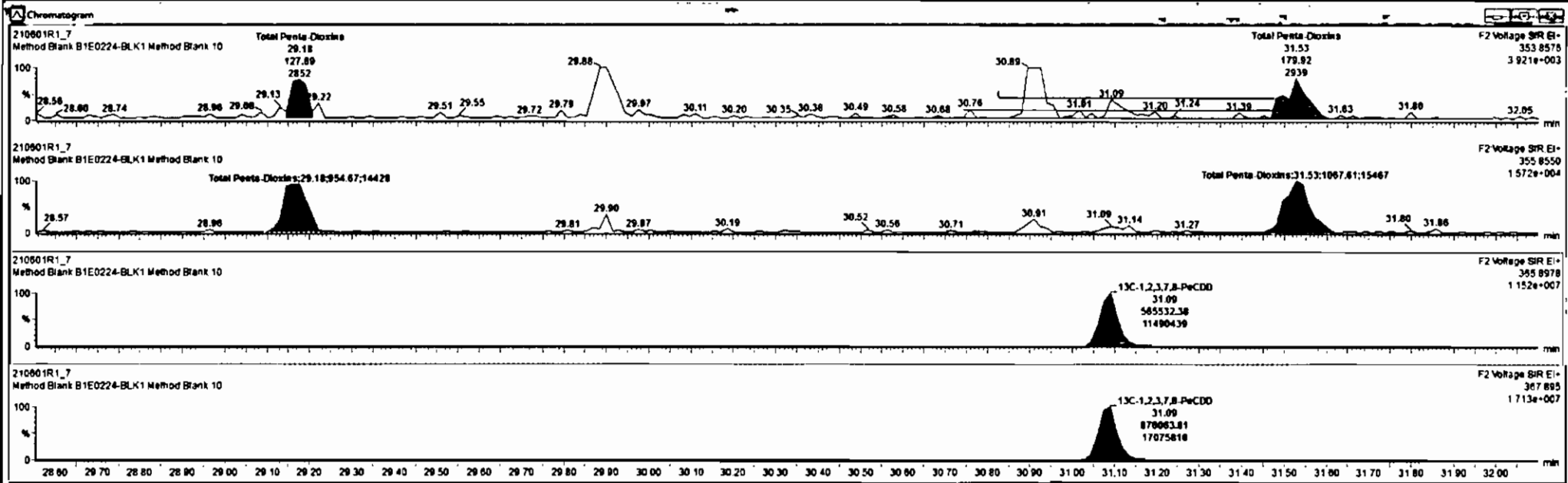
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31.09
8.76e5
17075810

F2:Voltage SIR,EI+
367.895
1.713e+007

210601R1_7 - B1E0224 BLK1 Method Blank 1 - Method Blank

Name	Resp	RA	rv	RPF	wfVol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxine				0.8257	1.000			0.889	0.0873	1.34	
41 Total Hexa-Dioxine				0.8771	1.000				0.294		
42 Total Hepta-Dioxine				0.8867	1.000				0.307		
43 Total Tetra-Furans				0.7468	1.000				0.0542		
44 1st Func. Penta-Furans				0.8771	1.000				0.0342		
45 Total Penta-Furans				0.8771	1.000				0.0795		
46 Total Hexa-Furans				0.9725	1.000				0.183		
47 Total Hepta-Furans				1.0481	1.000				0.153		
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc
1 Total Penta-Dioxine	29.18	1.277e2	9.547e2	0.13	YES	0.55506	0.00000
2 Total Penta-Dioxine	31.53	1.799e2	1.068e3	0.17	YES	0.78213	0.00000

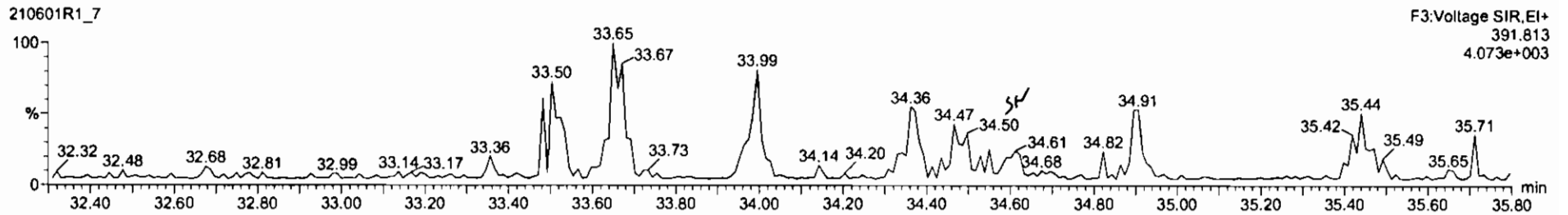
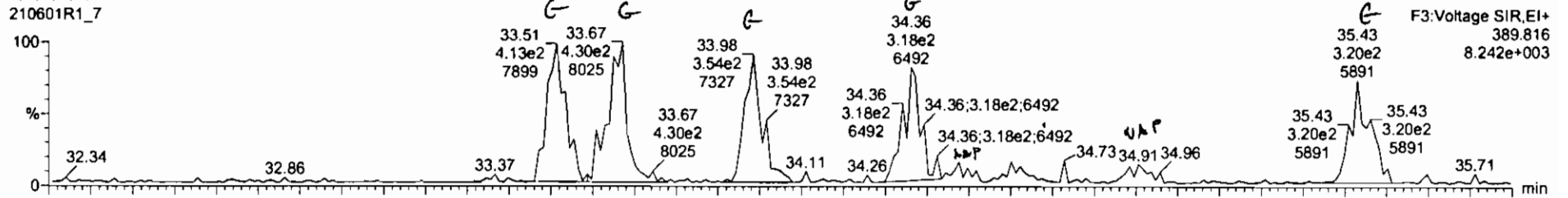


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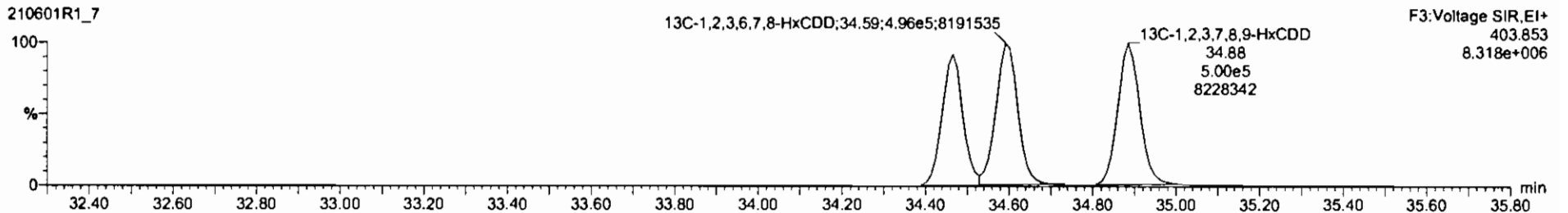
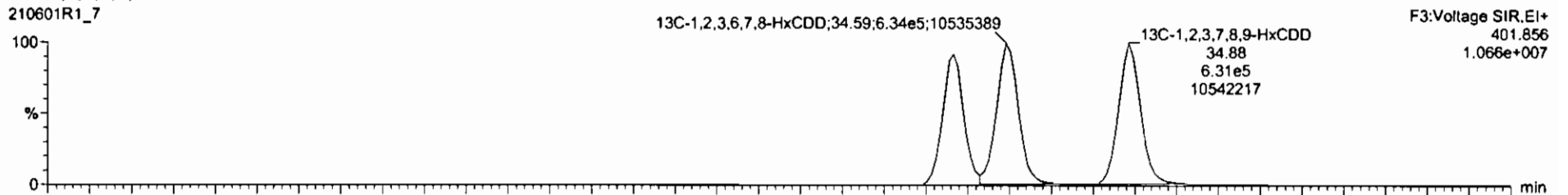
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Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

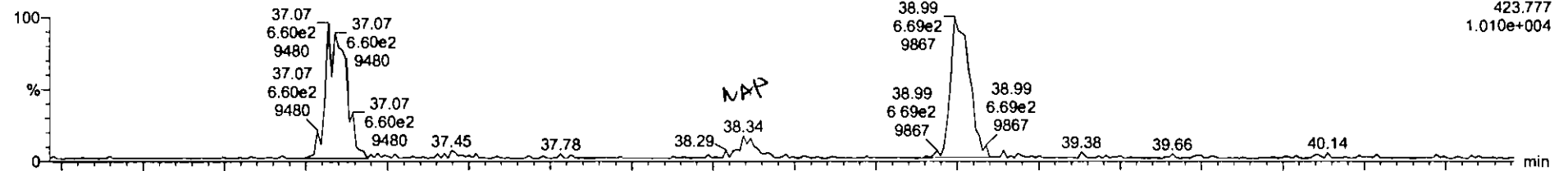
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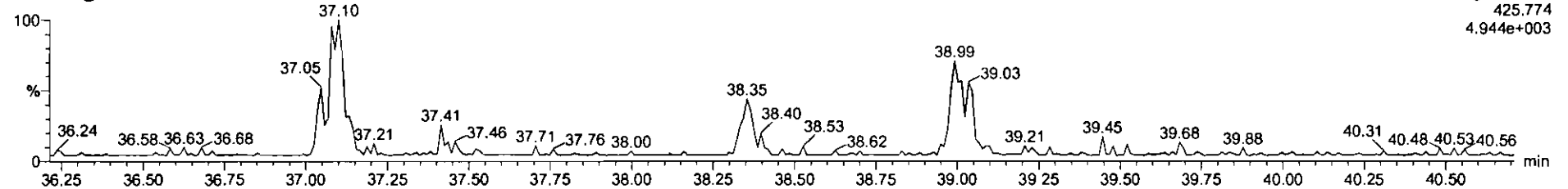
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1,2,3,4,6,7,8-HpCDD

210601R1_7

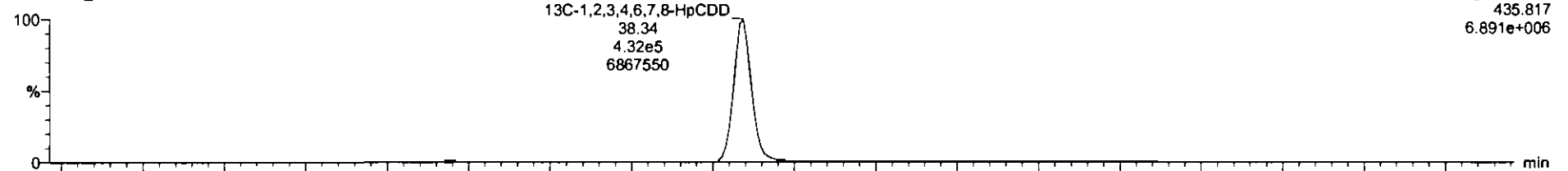


210601R1_7

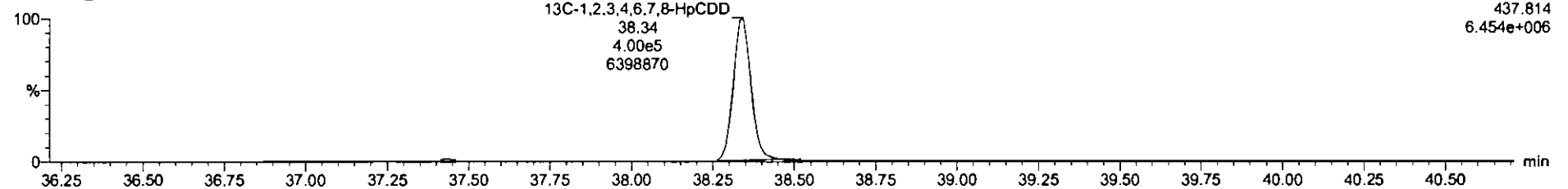


13C-1,2,3,4,6,7,8-HpCDD

210601R1_7

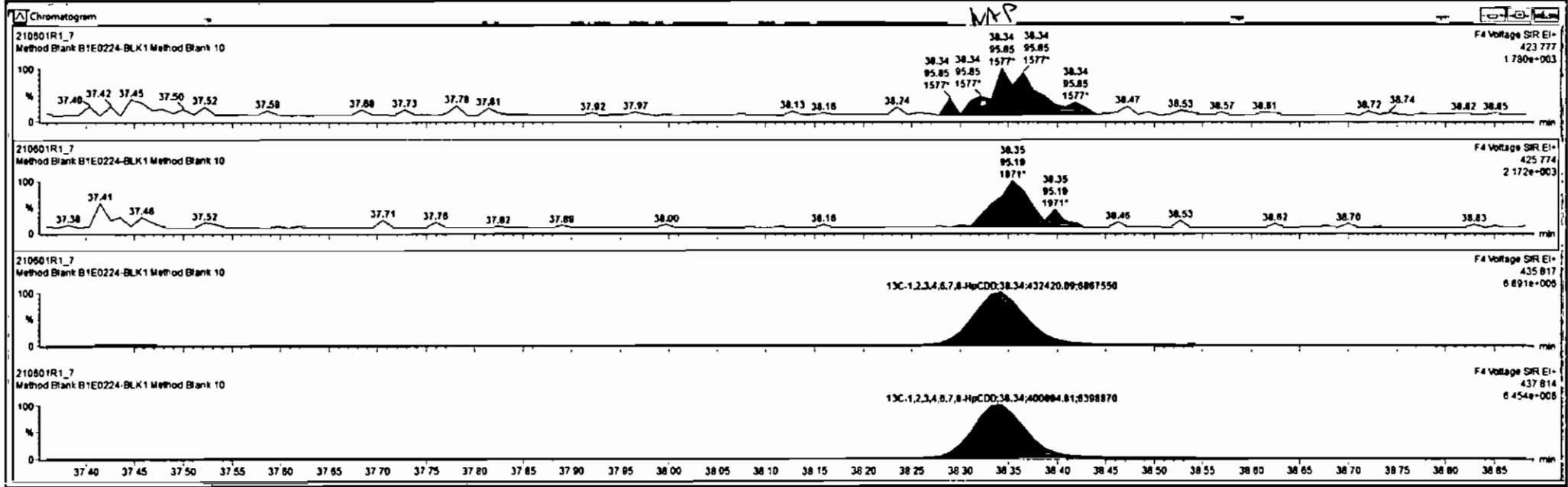


210601R1_7



Name	Resp	RA	rv	RPF	w/wtd	RT	RRT	Conc	%Rec	DL	EMPC
6 1,2,3,4,6,7,8-HpCDD			NO	0.8887	1.000					0.490	
7 OCDD			NO	0.8524	1.000					0.819	
8 2,3,7,8-TCDF			NO	0.7488	1.000					0.104	
9 1,2,3,7,8-PeCDF			NO	0.8771	1.000					0.181	
10 2,3,4,7,8-PeCDF			NO	0.9621	1.000					0.158	
11 1,2,3,4,7,8-HxCDF			NO	0.8202	1.000					0.152	
12 1,2,3,6,7,8-HxCDF			NO	0.9363	1.000					0.172	
13 2,3,4,6,7,8-HxCDF			NO	0.8725	1.000					0.187	
14 1,2,3,7,8,9-HxCDF			NO	0.9396	1.000					0.222	
15 1,2,3,4,6,7,8-HxCDF			NO	1.0481	1.000					0.219	

Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc



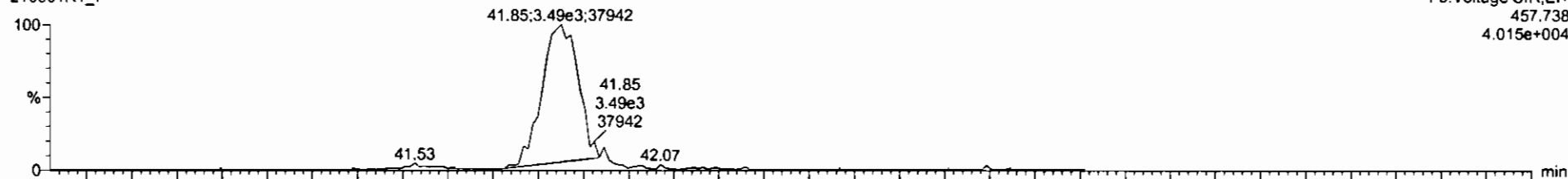
Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

Last Altered: Tuesday, June 01, 2021 15:58:17 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

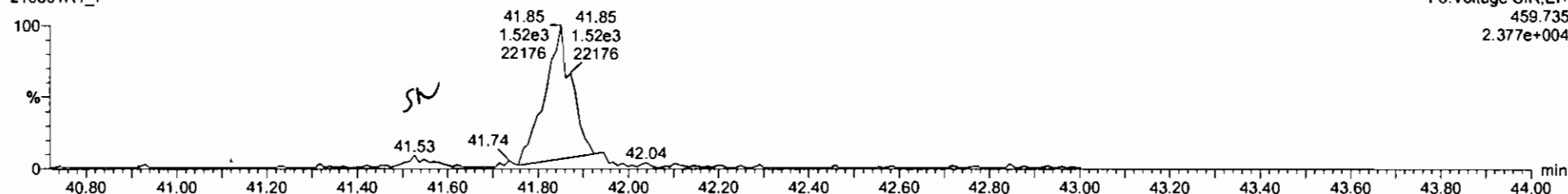
Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

OCDD

210601R1_7



210601R1_7

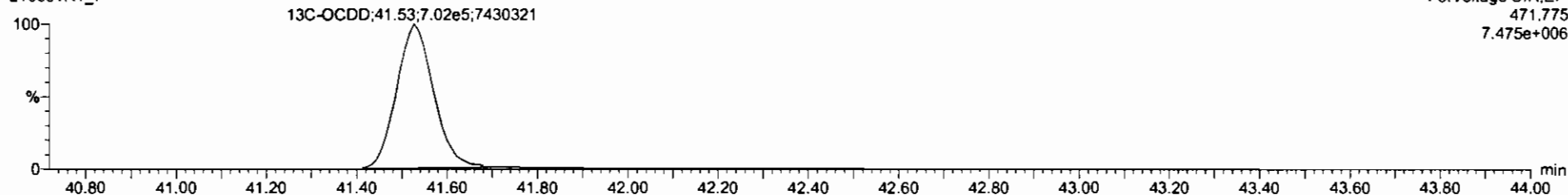


13C-OCDD

210601R1_7



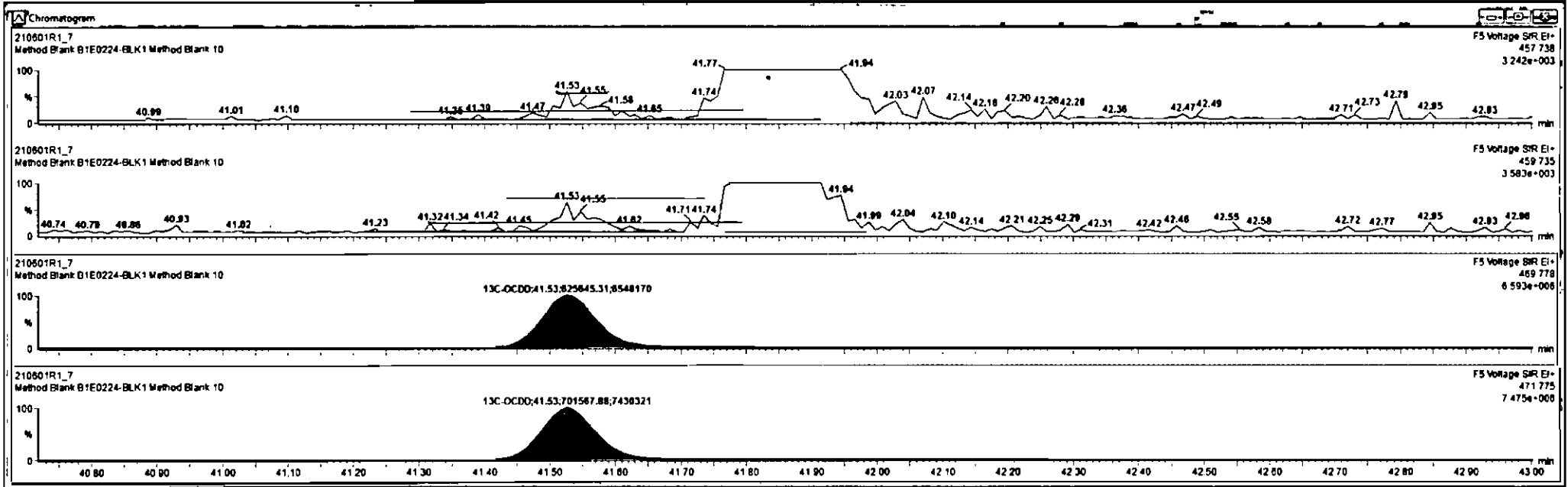
210601R1_7



210601R1_7 B1E0224-BLK1 Method Blank 1 Method Blank

Name	Resp	RA	nlv	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD		NO	0.8524	1.000					0.819	
8	2,3,7,8-TCDF		NO	0.7488	1.000					0.184	
9	1,2,3,7,8-PeCDF		NO	0.8771	1.000					0.181	
10	2,3,4,7,8-PeCDF		NO	0.9621	1.000					0.158	
11	1,2,3,4,7,8-HxCDF		NO	0.8202	1.000					0.152	
12	1,2,3,6,7,8-HxCDF		NO	0.9283	1.000					0.172	
13	2,3,4,6,7,8-HxCDF		NO	0.9725	1.000					0.187	
14	1,2,3,7,8,9-HxCDF		NO	0.9396	1.000					0.222	
15	1,2,3,4,6,7,8-HpCDF		NO	1.8481	1.000					8.219	
16	1,2,3,4,7,8,9-HpCDF		NO	1.0453	1.000					6.238	

Name	RT	n1 Resp	n2 Resp	RA	nlv	EMPC	Conc
1							

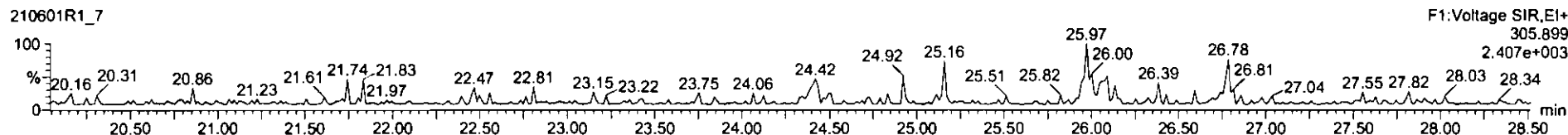
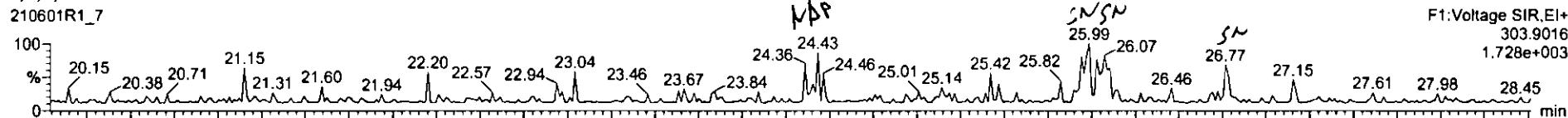


Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

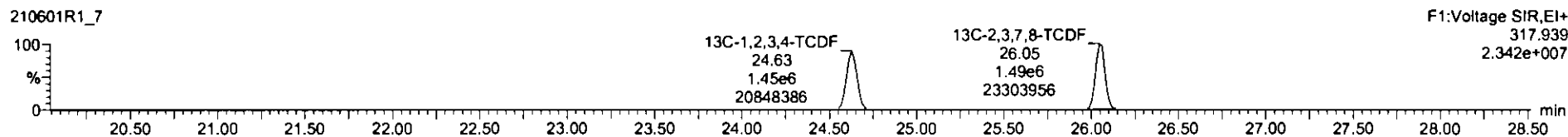
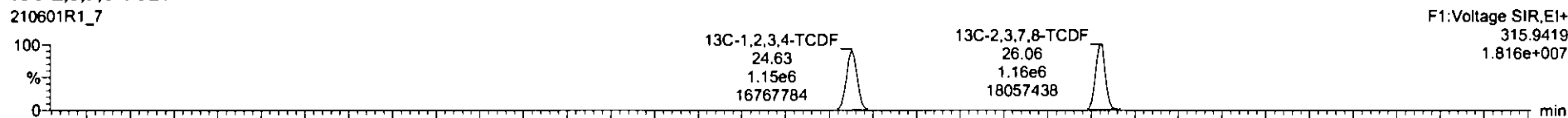
Last Altered: Tuesday, June 01, 2021 15:58:17 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

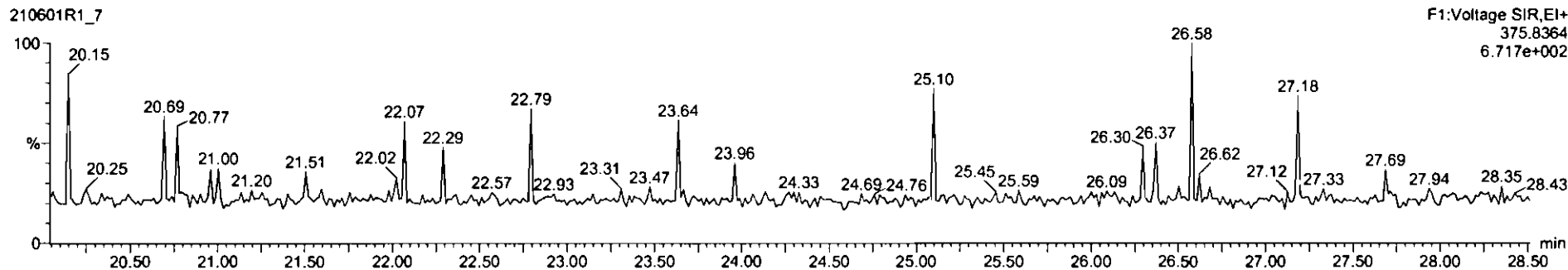
2,3,7,8-TCDF



13C-2,3,7,8-TCDF

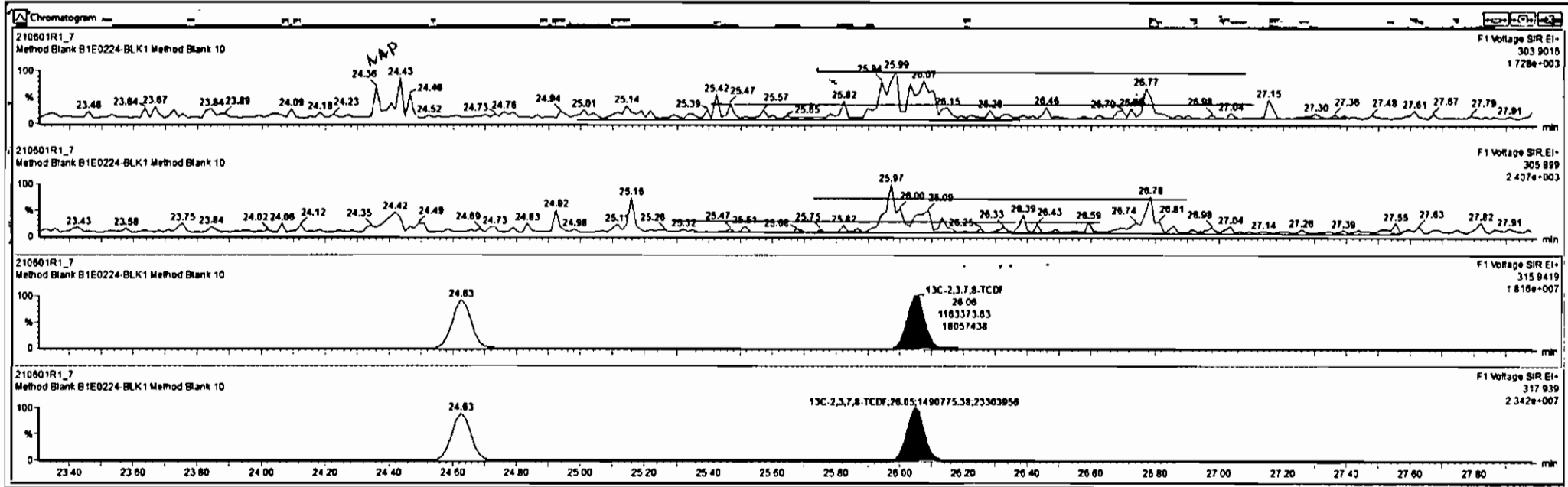


DPE1



Name	Resp	RA	n/y	RPF	w/wal	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7488	1.000					0.8942	
44 1st Func. Penta-Furans				0.8771	1.000					0.9342	
45 Total Penta-Furans				0.8771	1.000					0.9790	
46 Total Hexa-Furans				0.9725	1.000					0.103	
47 Total Hepta-Furans				1.0481	1.000					0.153	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											

Name	RT	n1 Resp	n2 Resp	RA	n/y	EMPC	Conc
1							



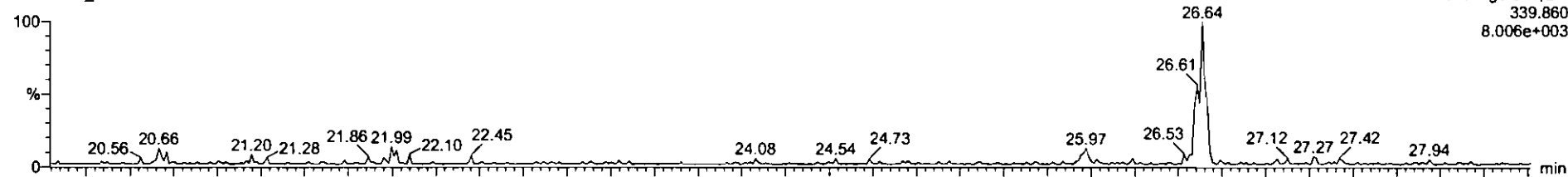
Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

Last Altered: Tuesday, June 01, 2021 15:58:17 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

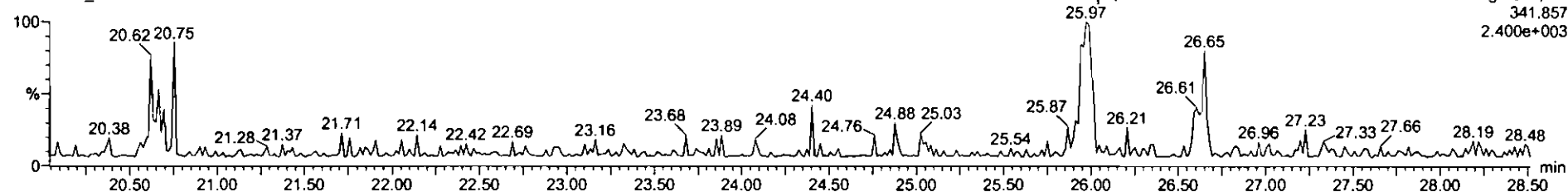
Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

210601R1_7

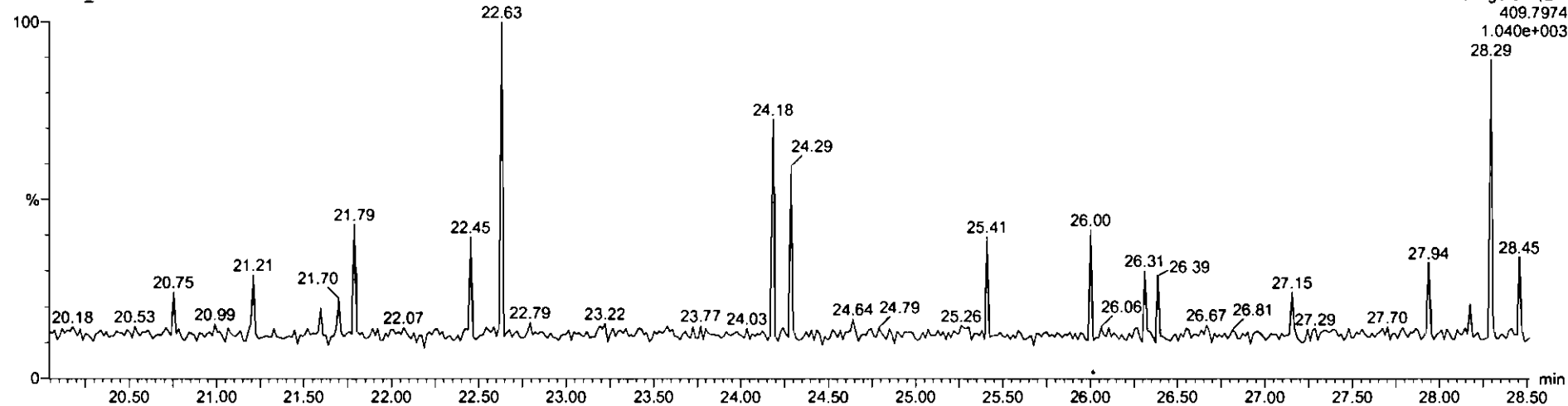


210601R1_7



DPE6

210601R1_7



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

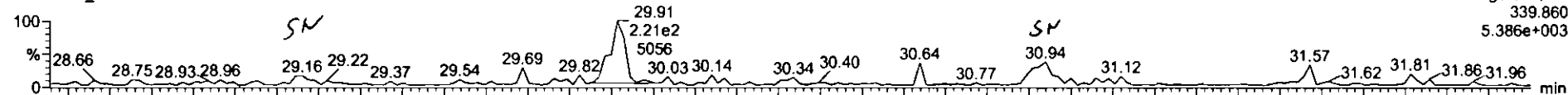
Last Altered: Tuesday, June 01, 2021 15:58:17 Pacific Daylight Time

Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

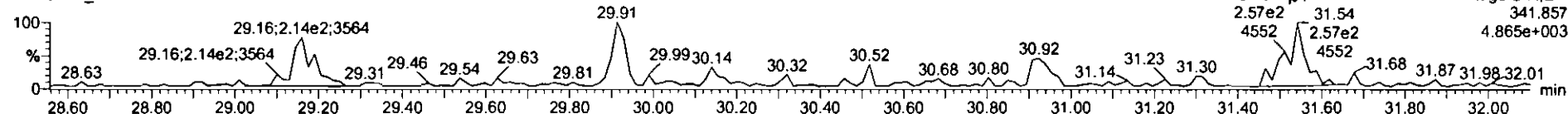
1,2,3,7,8-PeCDF

210601R1_7



F2: Voltage SIR, EI+
339.860
5.386e+003

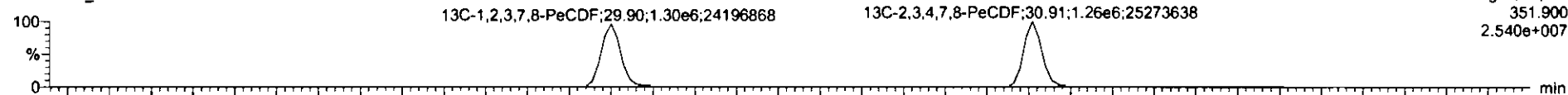
210601R1_7



F2: Voltage SIR, EI+
341.857
4.865e+003

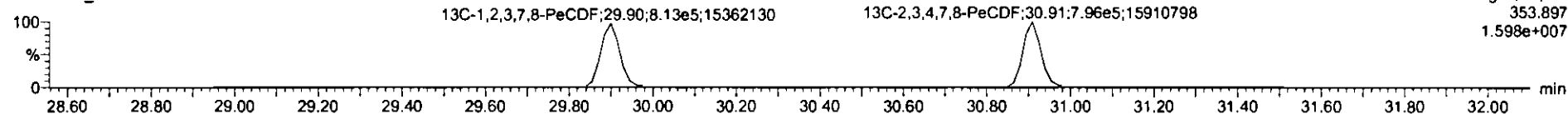
13C-1,2,3,7,8-PeCDF

210601R1_7



F2: Voltage SIR, EI+
351.900
2.540e+007

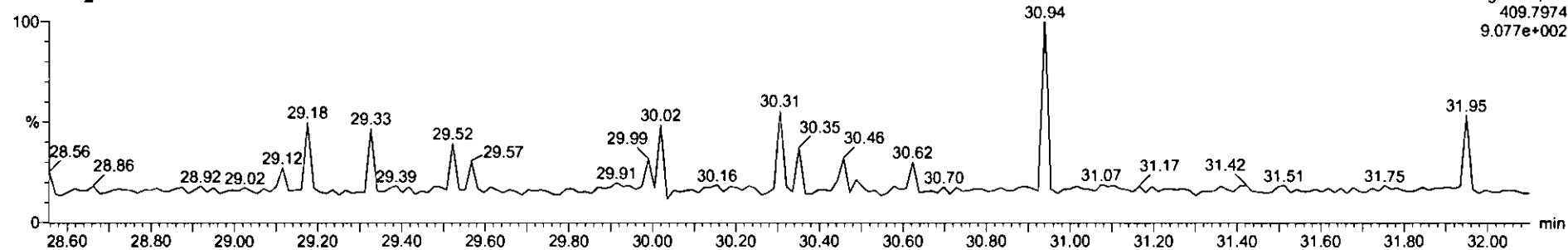
210601R1_7



F2: Voltage SIR, EI+
353.897
1.598e+007

DPE2

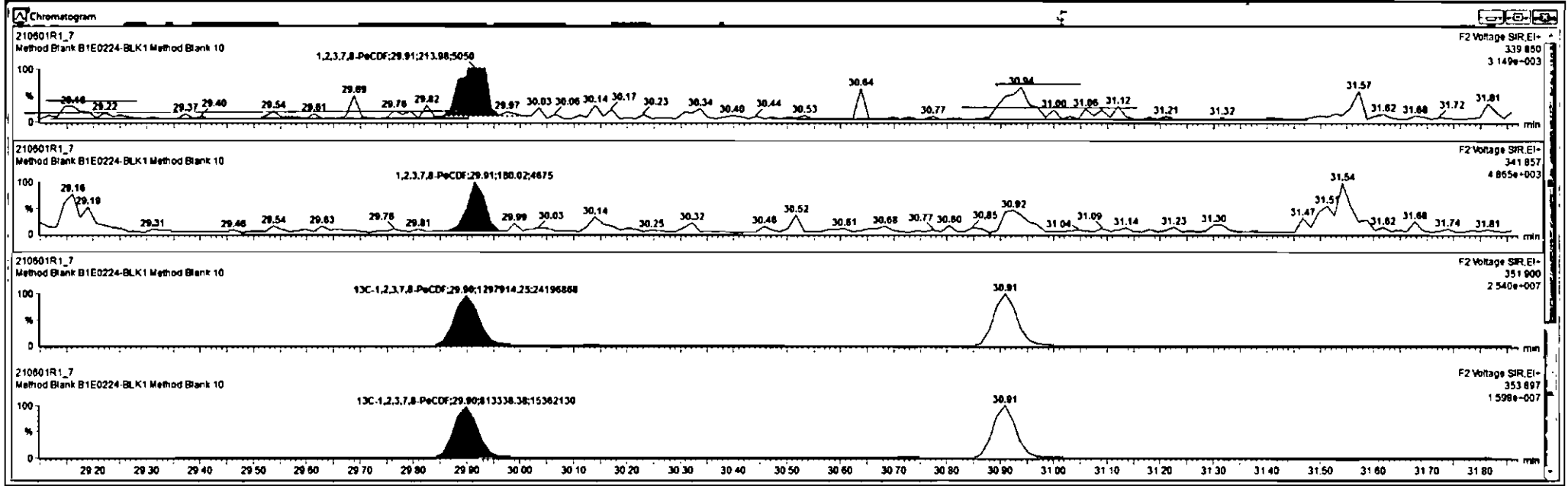
210601R1_7



F2: Voltage SIR, EI+
409.7974
9.077e+002

Name	Resp	RA	ny	RRF	uVal	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.8771	1.000			0.000		0.0795	0.385
46 Total Hexa-Furans				0.9725	1.000					0.103	
47 Total Hepta-Furans				1.8481	1.000					0.153	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											
54 OPE2											

Name	RT	w1 Resp	w2 Resp	RA	ny	EMPC	Conc
1 1,2,3,7,8-PeCDF	29.91	2.140e2	1.800e2	1.19	YES	0.38021	0.00000



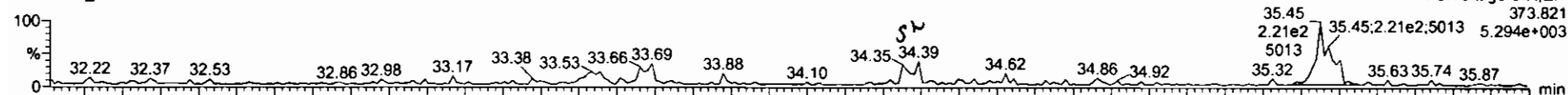
Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

Last Altered: Tuesday, June 01, 2021 15:58:17 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

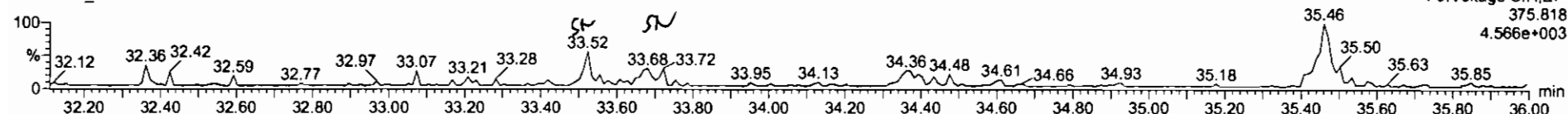
Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

1,2,3,4,7,8-HxCDF

210601R1_7

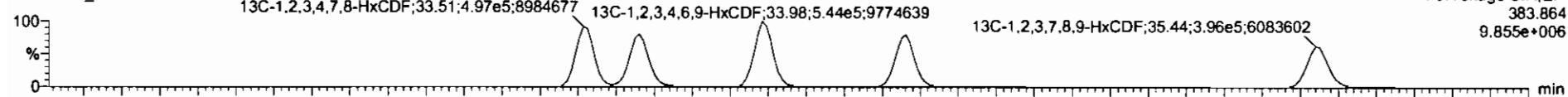


210601R1_7

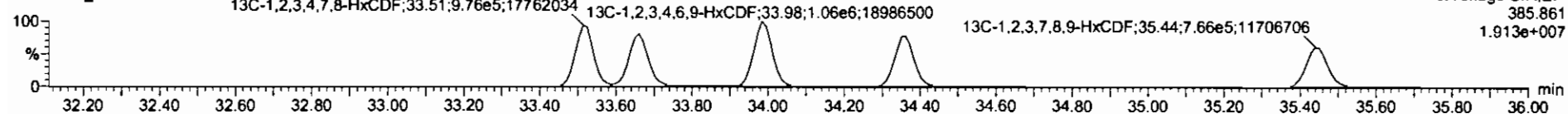


13C-1,2,3,4,7,8-HxCDF

210601R1_7

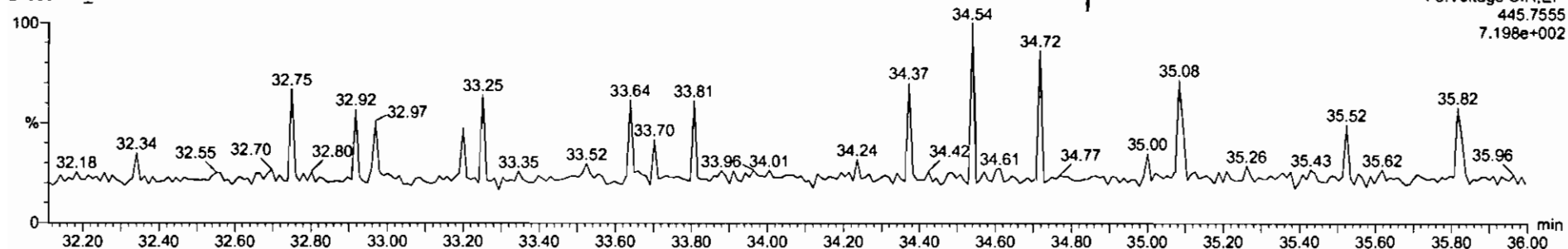


210601R1_7



DPE3

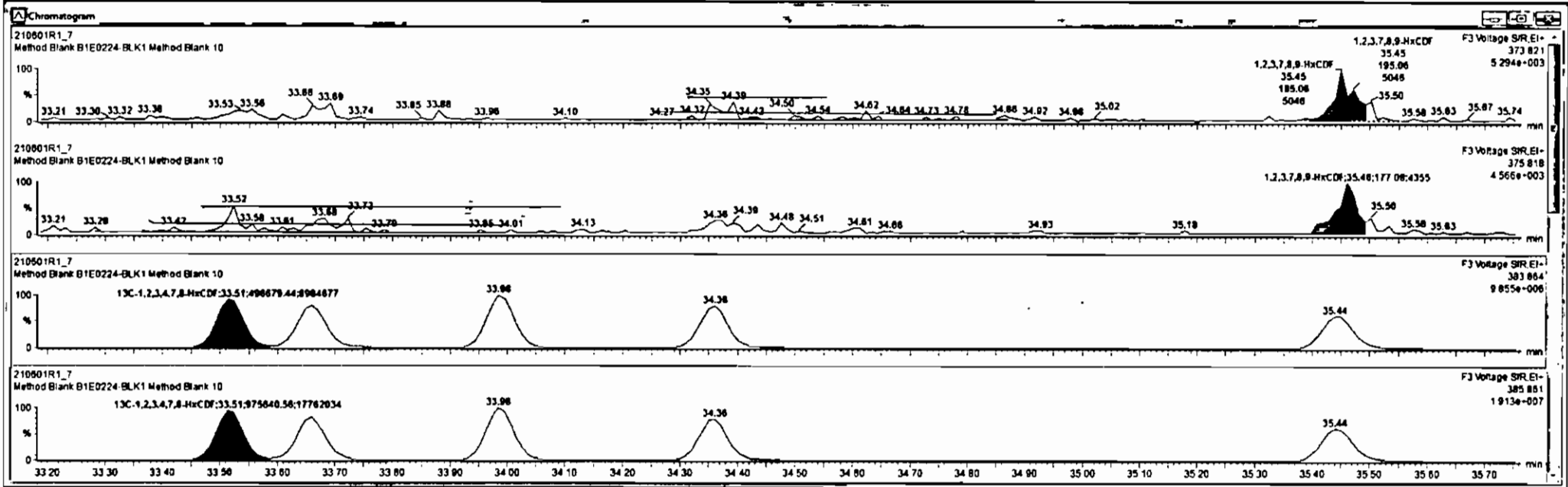
210601R1_7



210601R1_7 - B1E0224 BLK1 Method Blank 1 - Method Blank

Name	Resp	RA	rv	RRF	wVal	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.8771	1.000			0.000	0.9795	0.390	
46 Total Hexa-Furans				0.9725	1.000			0.000	0.183	0.612	
47 Total Hepta-Furans				1.0481	1.000				0.153		
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											

Name	RT	int Resp	std Resp	RA	rv	EMPC	Conc
1 1,2,3,7,8,9-HxCDF	35.45	1.851e2	1.771e2	1.05	YES	0.61242	0.00000

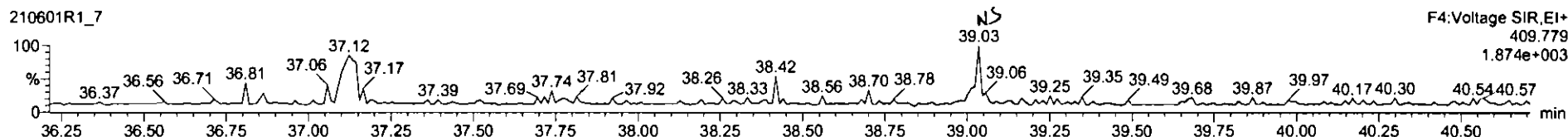
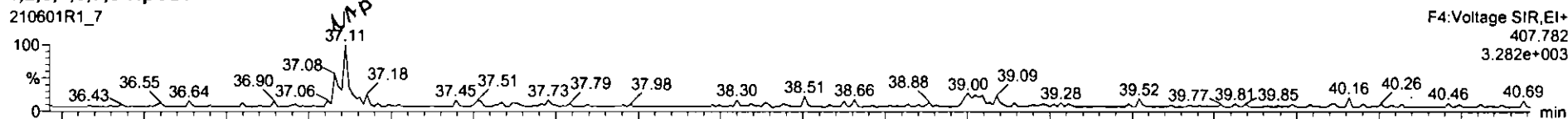


Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

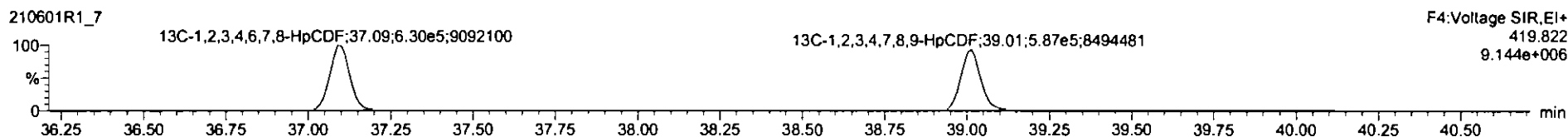
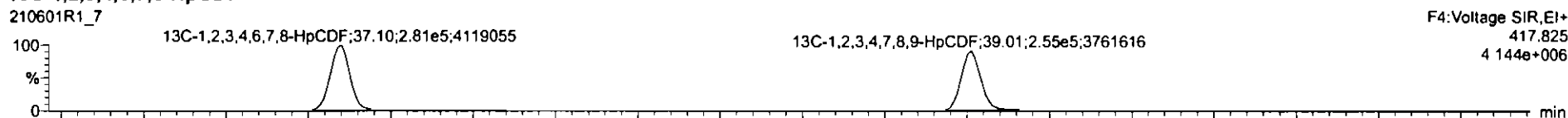
Last Altered: Tuesday, June 01, 2021 15:58:17 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank

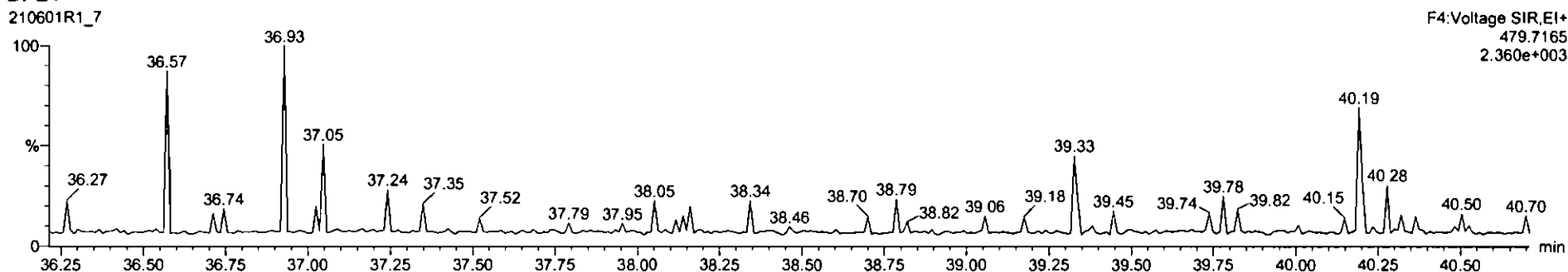
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



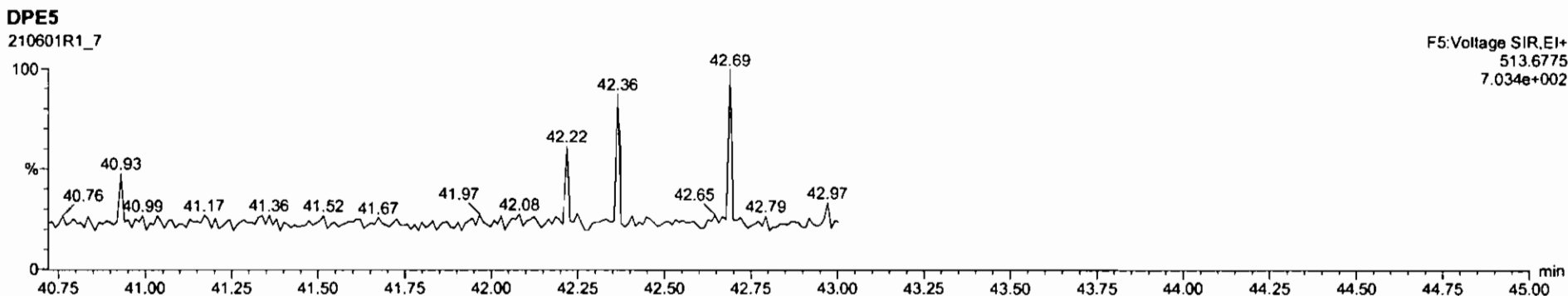
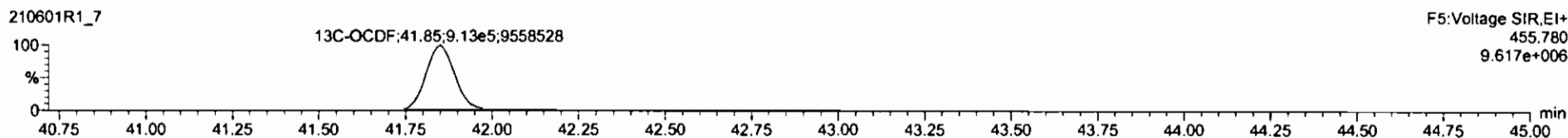
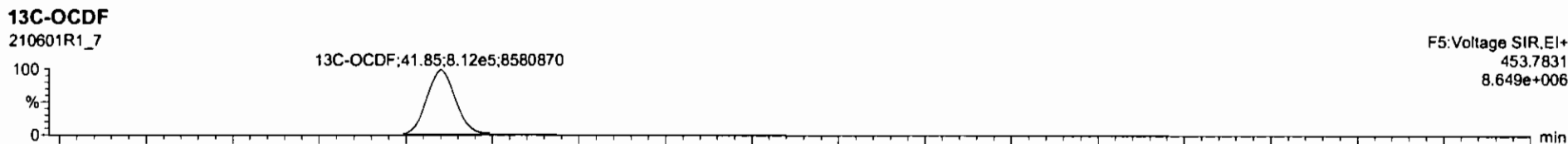
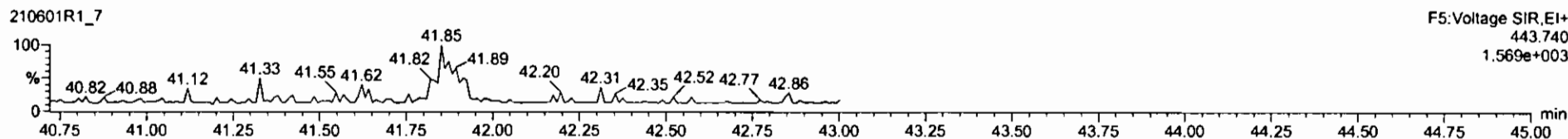
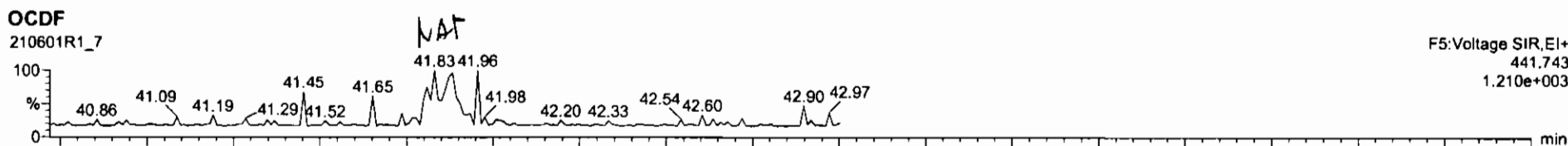
DPE4



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

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Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

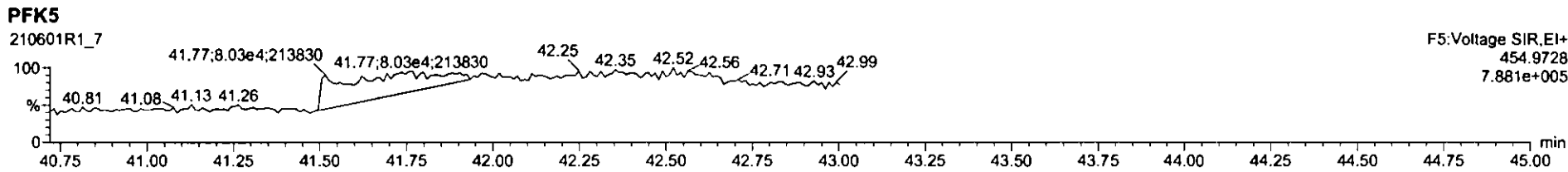
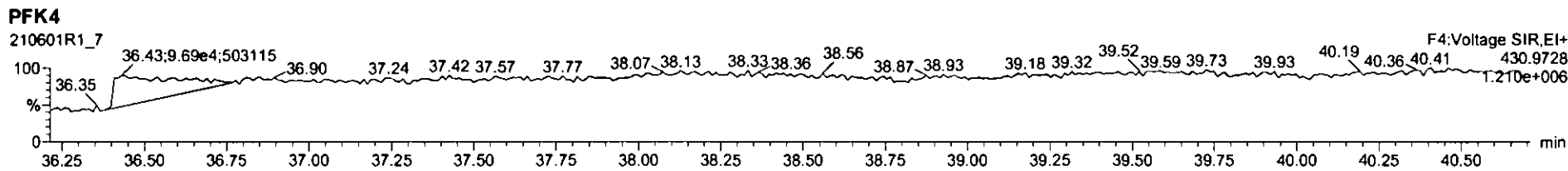
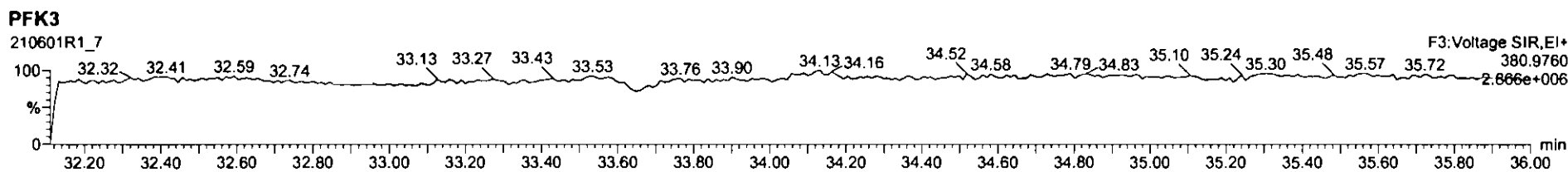
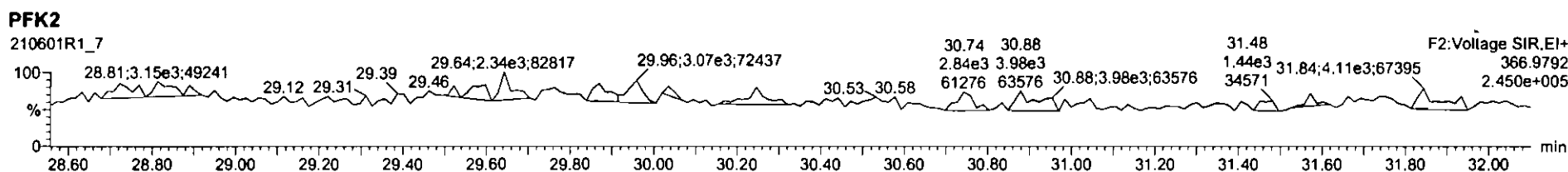
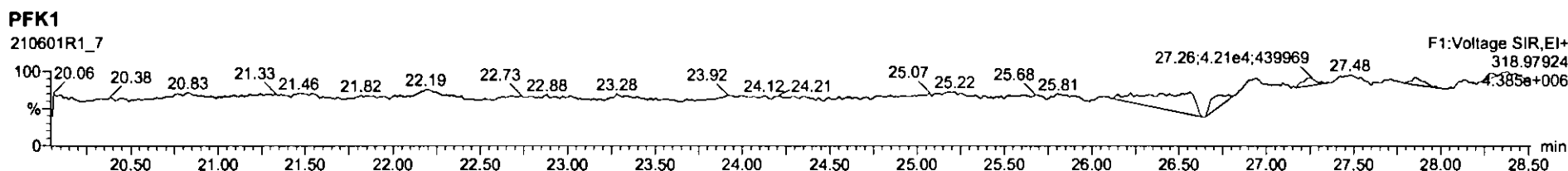
Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_7.qld

Last Altered: Tuesday, June 01, 2021 15:58:17 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 15:59:15 Pacific Daylight Time

Name: 210601R1_7, Date: 01-Jun-2021, Time: 14:12:11, ID: B1E0224-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_3.qld

Last Altered: Tuesday, June 01, 2021 12:48:24 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 12:52:37 Pacific Daylight Time

HN 06/01/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

C706/04/2021

Name: 210601R1_3, Date: 01-Jun-2021, Time: 11:11:26, ID: B1E0224-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred:RT	RT	Pred:RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.01e5	0.73	NO	0.929	10.000	26.696	26.70	1.001	1.001	25.683		0.0361	25.7
2	2 1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.826	10.000	31.121	31.10	1.001	1.000	126.16		0.258	126
3	3 1,2,3,4,7,8-HxCDD	2.75e5	1.26	NO	0.972	10.000	34.456	34.46	1.001	1.001	126.53		0.232	127
4	4 1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.877	10.000	34.581	34.58	1.001	1.001	122.23		0.231	122
5	5 1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.874	10.000	34.653	34.86	1.000	1.001	124.14		0.212	124
6	6 1,2,3,4,6,7,8-HpCDD	2.33e5	1.06	NO	0.899	10.000	38.246	38.26	1.000	1.001	123.00		0.370	123
7	7 OCDD	3.31e5	0.87	NO	0.852	10.000	41.314	41.33	1.000	1.001	247.30		0.611	247
8	8 2,3,7,8-TCDF	9.97e4	0.74	NO	0.747	10.000	26.063	26.08	1.000	1.001	22.738		0.0456	22.7
9	9 1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.877	10.000	29.917	29.91	1.000	1.000	125.54		0.526	126
10	10 2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.962	10.000	30.946	30.94	1.001	1.000	124.17		0.500	124
11	11 1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.920	10.000	33.513	33.51	1.000	1.000	119.12		0.355	119
12	12 1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.936	10.000	33.659	33.66	1.001	1.001	116.84		0.320	117
13	13 2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.973	10.000	34.351	34.35	1.001	1.001	119.99		0.380	120
14	14 1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.940	10.000	35.409	35.42	1.000	1.001	122.58		0.511	123
15	15 1,2,3,4,6,7,8-HpCDF	2.67e5	0.99	NO	1.05	10.000	37.044	37.04	1.000	1.000	117.95		0.428	118
16	16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.05	10.000	38.906	38.90	1.000	1.000	116.24		0.441	116
17	17 OCDF	4.00e5	0.88	NO	0.771	10.000	41.639	41.65	1.000	1.001	240.45		0.581	240
18	18 13C-2,3,7,8-TCDD	8.48e5	0.80	NO	1.10	10.000	26.670	26.67	1.027	1.027	205.22	103	0.144	
19	19 13C-1,2,3,7,8-PeCDD	6.14e5	0.65	NO	0.884	10.000	31.051	31.09	1.196	1.197	190.04	95.0	0.224	
20	20 13C-1,2,3,4,7,8-HxCDD	4.47e5	1.29	NO	0.746	10.000	34.432	34.44	1.014	1.014	151.69	75.8	0.428	
21	21 13C-1,2,3,6,7,8-HxCDD	5.32e5	1.26	NO	0.847	10.000	34.551	34.56	1.017	1.018	158.91	79.5	0.377	
22	22 13C-1,2,3,7,8,9-HxCDD	5.71e5	1.22	NO	0.868	10.000	34.849	34.84	1.026	1.026	166.40	83.2	0.368	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.21e5	1.05	NO	0.664	10.000	38.195	38.24	1.125	1.126	160.53	80.3	0.478	
24	24 13C-OCDD	6.29e5	0.89	NO	0.561	10.000	41.139	41.31	1.211	1.216	283.69	70.9	0.767	
25	25 13C-2,3,7,8-TCDF	1.17e6	0.79	NO	1.09	10.000	26.059	26.06	1.003	1.003	175.64	87.8	0.278	
26	26 13C-1,2,3,7,8-PeCDF	8.98e5	1.61	NO	0.809	10.000	29.781	29.91	1.147	1.152	181.27	90.6	0.454	
27	27 13C-2,3,4,7,8-PeCDF	8.62e5	1.61	NO	0.803	10.000	30.742	30.92	1.184	1.191	175.54	87.8	0.458	
28	28 13C-1,2,3,4,7,8-HxCDF	6.36e5	0.51	NO	1.01	10.000	33.505	33.50	0.987	0.986	159.06	79.5	0.544	
29	29 13C-1,2,3,6,7,8-HxCDF	7.30e5	0.51	NO	1.07	10.000	33.634	33.64	0.990	0.990	172.17	86.1	0.513	
30	30 13C-2,3,4,6,7,8-HxCDF	5.88e5	0.51	NO	0.910	10.000	34.323	34.33	1.011	1.011	163.61	81.8	0.605	
31	31 13C-1,2,3,7,8,9-HxCDF	5.21e5	0.50	NO	0.828	10.000	35.400	35.40	1.042	1.042	159.24	79.6	0.664	

Dataset: U:\VG12.PRO\Results\210601R1\210601R1_3.qld

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Printed: Tuesday, June 01, 2021 12:52:37 Pacific Daylight Time

Name: 210601R1_3, Date: 01-Jun-2021, Time: 11:11:26, ID: B1E0224-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.32e5	0.43	NO	0.661	10.000	37.006	37.03	1.090	1.090	165.57	82.8	0.511	
33	13C-1,2,3,4,7,8,9-HpCDF	3.91e5	0.43	NO	0.568	10.000	38.765	38.89	1.141	1.145	175.07	87.5	0.597	
34	13C-OCDF	8.62e5	0.89	NO	0.663	10.000	41.527	41.63	1.223	1.226	329.34	82.3	0.559	
35	37Cl-2,3,7,8-TCDD	7.60e5			2.07	10.000	26.870	26.70	1.035	1.028	98.110	123	0.0911	
36	13C-1,2,3,4-TCDD	7.49e5	0.79	NO	1.00	10.000	26.070	25.97	1.000	1.000	200.00	100	0.159	
37	13C-1,2,3,4-TCDF	1.22e6	0.79	NO	1.00	10.000	24.760	24.63	1.000	1.000	200.00	100	0.304	
38	13C-1,2,3,4,6,9-HxCDF	7.90e5	0.50	NO	1.00	10.000	34.040	33.96	1.000	1.000	200.00	100	0.550	

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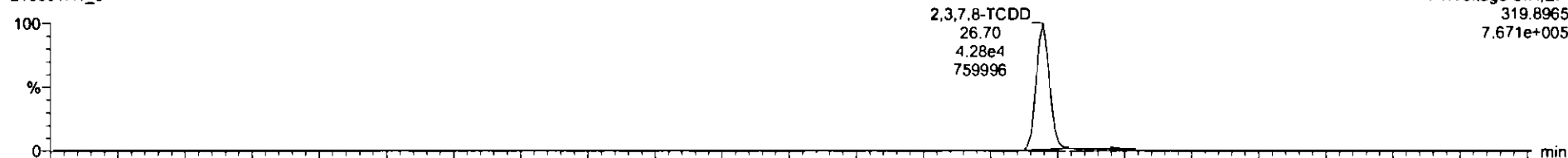
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Printed: Tuesday, June 01, 2021 12:39:34 Pacific Daylight Time

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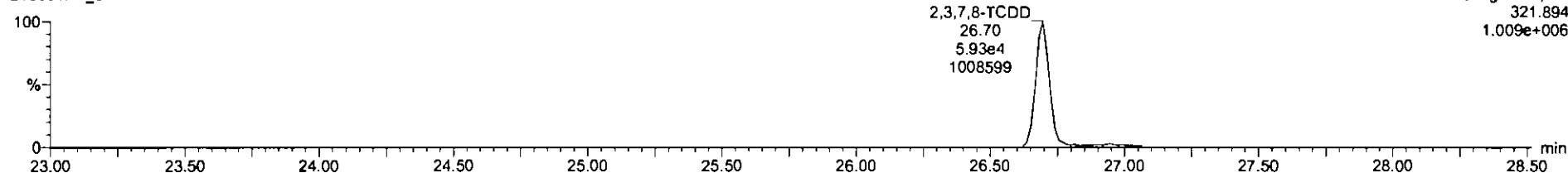
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2,3,7,8-TCDD

210601R1_3

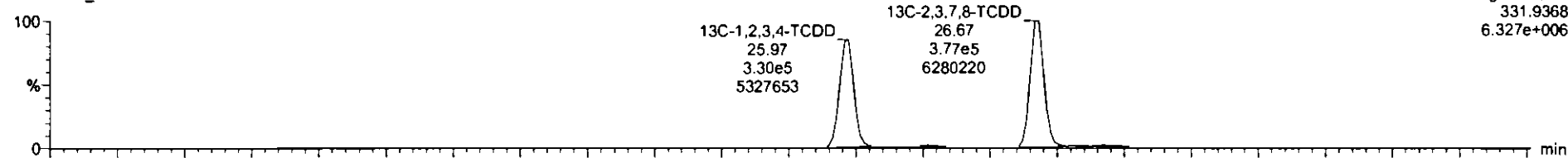


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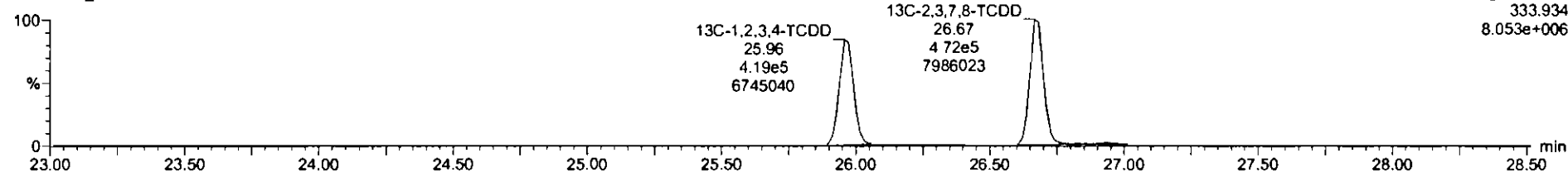


13C-2,3,7,8-TCDD

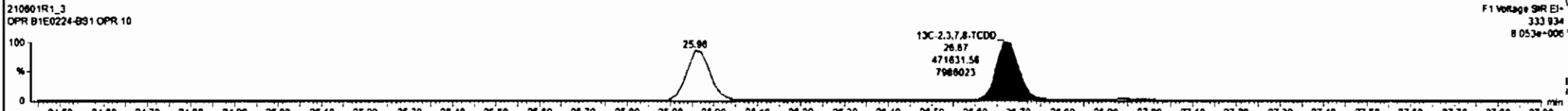
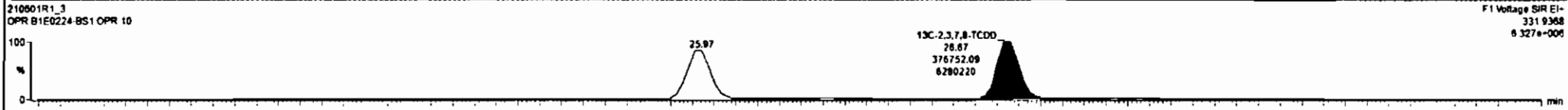
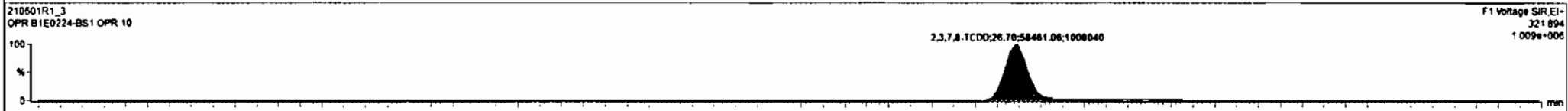
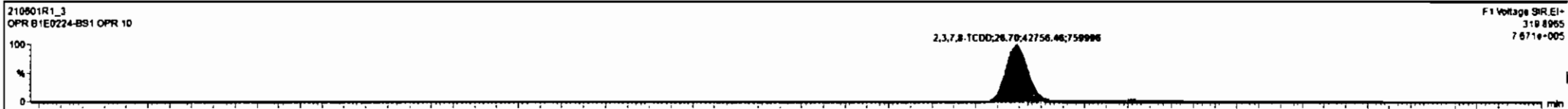
210601R1_3



210601R1_3



PK	Name	Resp	RA	ny	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	26.78	1.001	25.7		0.0361	25.7
2	1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8257	10.000	31.18	1.000	126		0.258	126
3	1,2,3,4,7,8-HxCDD	2.75e5	1.26	NO	0.8725	10.000	34.48	1.001	127		0.232	127
4	1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122		0.231	122
5	1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.8739	10.000	34.86	1.001	124		0.212	124
6	1,2,3,4,6,7,8-HpCDD	2.33e5	1.08	NO	0.8867	10.000	36.26	1.001	123		0.379	123
7	OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247		0.611	247
8	2,3,7,8-TCDF	9.97e4	0.74	NO	0.7498	10.000	28.08	1.001	22.7		0.0458	22.7
9	1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.81	1.000	126		0.526	126
10	2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.8821	10.000	30.94	1.000	124		0.500	124
11	1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9202	10.000	33.51	1.000	119		0.355	119
12	1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9363	10.000	33.86	1.001	117		0.320	117
13	2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120		0.380	120
14	1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.9398	10.000	35.42	1.001	123		0.511	123
15	1,2,3,4,6,7,8-HpCDF	2.87e5	0.99	NO	1.0481	10.000	37.04	1.000	118		0.428	118
16	1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.0453	10.000	38.90	1.000	118		0.441	118
17	OCDF	4.00e5	0.88	NO	0.7712	10.000	41.85	1.001	240		0.581	240
18	13C-2,3,7,8-TCDD	8.48e5	0.80	NO	1.1040	10.000	26.87	1.027	205	103	0.144	



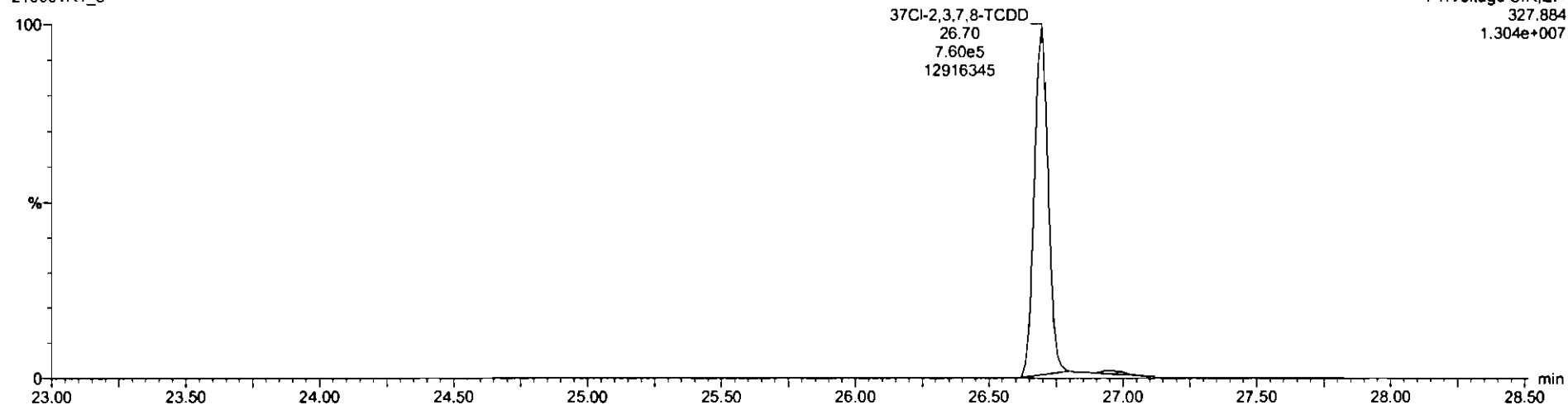
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Name: 210601R1_3, Date: 01-Jun-2021, Time: 11:11:26, ID: B1E0224-BS1 OPR 10, Description: OPR

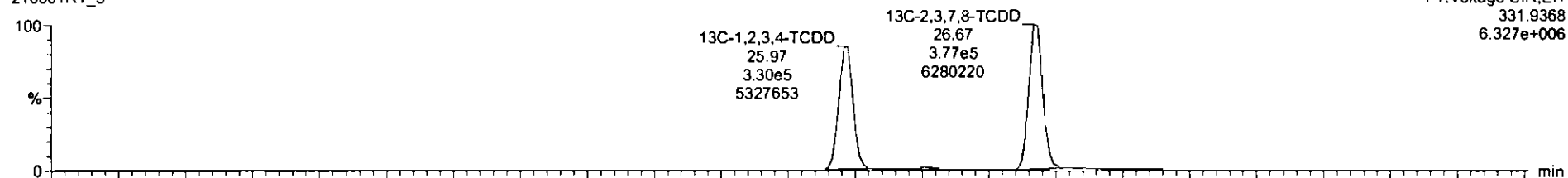
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210601R1_3

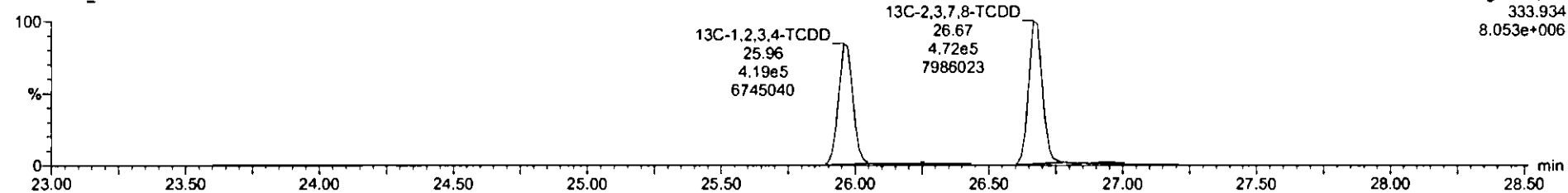


13C-1,2,3,4-TCDD

210601R1_3



210601R1_3



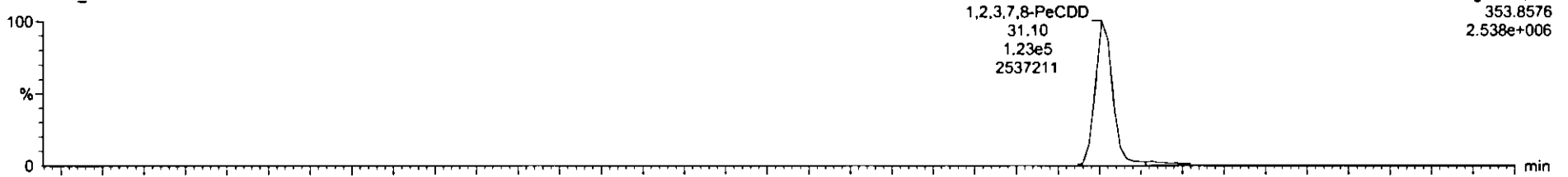
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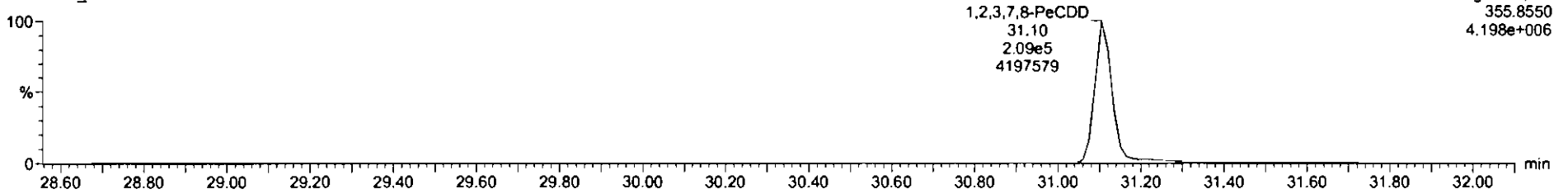
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1,2,3,7,8-PeCDD

210601R1_3

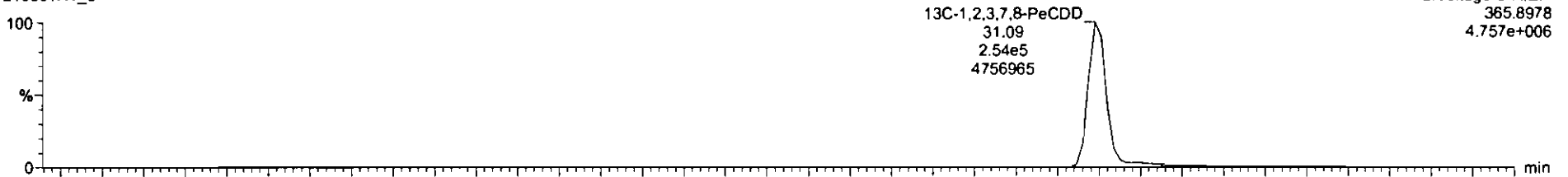


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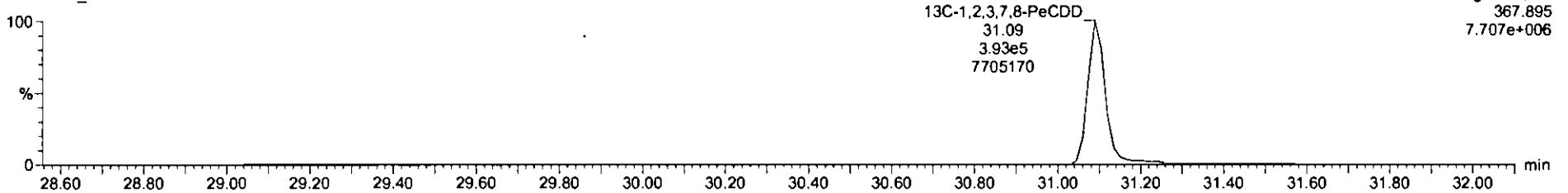


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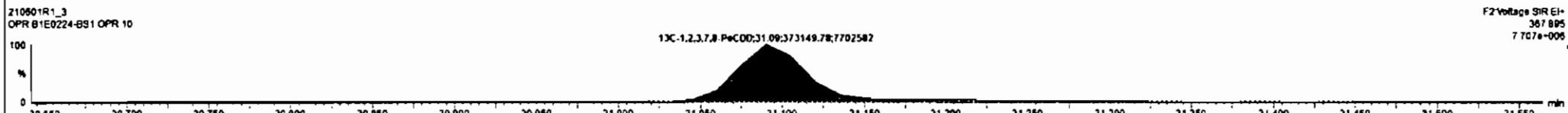
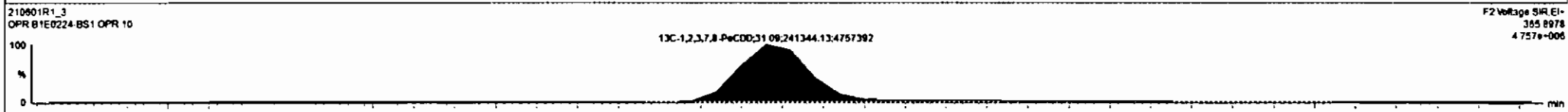
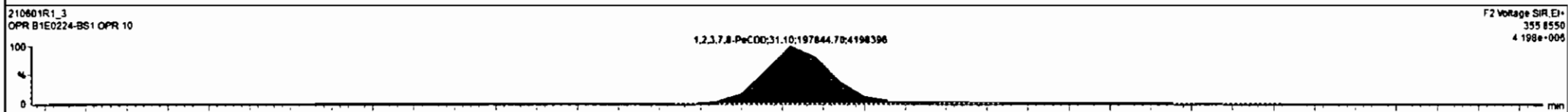
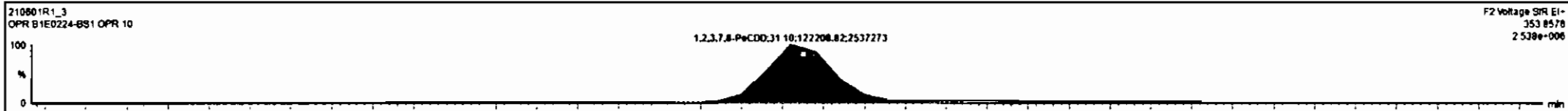


210601R1_3



210601R1_3 - B1E0224 BS1 OPR 10 - OPR

Name	Ret	RA	Qty	RRP	Wt/Wt	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	26.78	1.001	25.7		0.8361	25.7
2 1,2,3,7,8-PeCDD	3.20e5	0.82	NO	0.8257	10.000	31.18	1.000	126		0.258	126
3 1,2,3,4,7,8-HxCDD	2.75e5	1.28	NO	0.9725	10.000	34.46	1.001	127		0.232	127
4 1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122		0.231	122
5 1,2,3,7,8,9-HxCDD	3.19e5	1.27	NO	0.8730	10.000	34.86	1.001	124		0.212	124
6 1,2,3,4,6,7,8-HpCDD	2.33e5	1.08	NO	0.8967	10.000	36.28	1.001	123		0.370	123
7 OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247		0.611	247
8 2,3,7,8-TCDF	9.97e4	0.74	NO	0.7488	10.000	26.08	1.001	22.7		0.0458	22.7
9 1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.91	1.000	126		0.528	126
10 2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.9521	10.000	30.94	1.000	124		0.500	124
11 1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9202	10.000	33.51	1.000	119		0.355	119
12 1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9363	10.000	33.86	1.001	117		0.328	117
13 2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120		0.380	120
14 1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.9398	10.000	35.42	1.001	123		0.511	123
15 1,2,3,4,7,8,9-HpCDF	2.67e5	0.99	NO	1.0481	10.000	37.64	1.000	118		0.428	118
16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.08	NO	1.0453	10.000	38.90	1.000	118		0.441	118
17 OCDF	4.30e5	0.88	NO	0.7712	10.000	41.85	1.001	240		0.581	240
18 1,3C-2,3,7,8-TCDD	8.48e5	0.80	NO	1.1040	10.000	28.67	1.027	205	103	0.144	



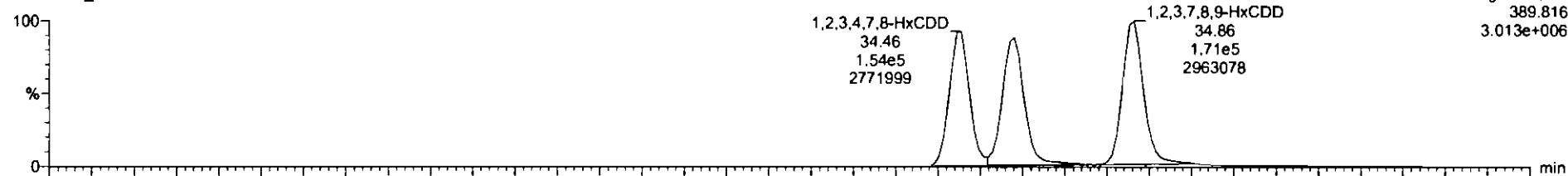
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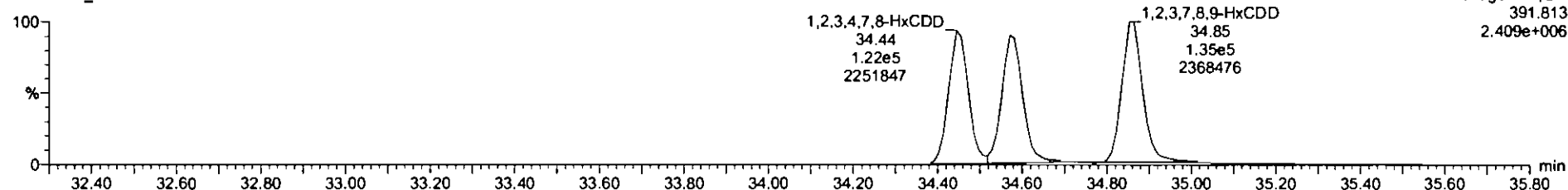
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1,2,3,4,7,8-HxCDD

210601R1_3

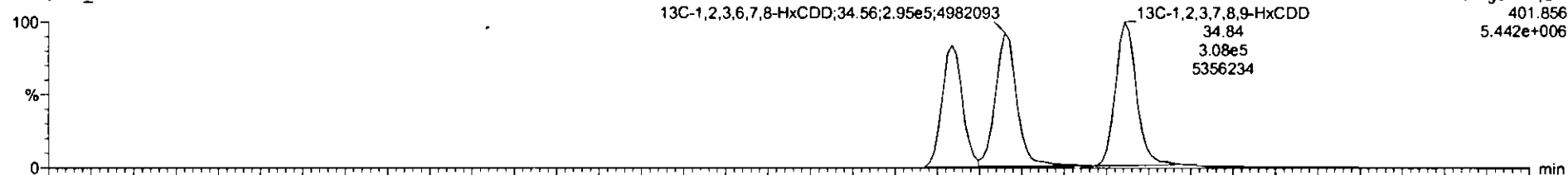


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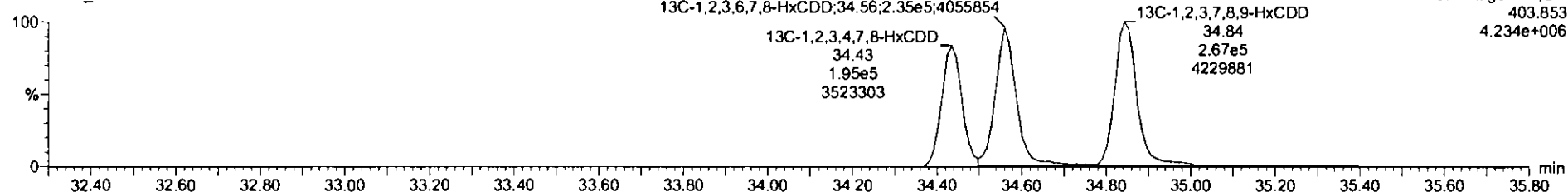


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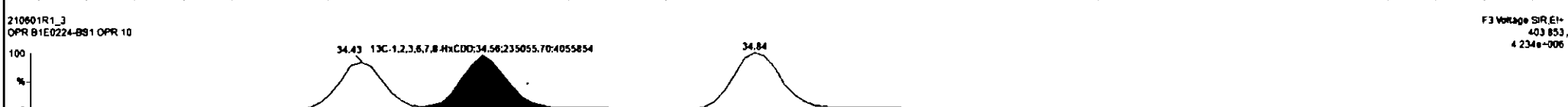
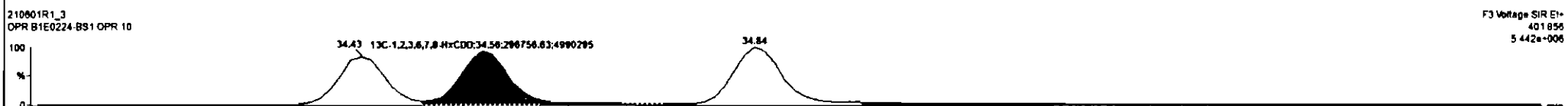
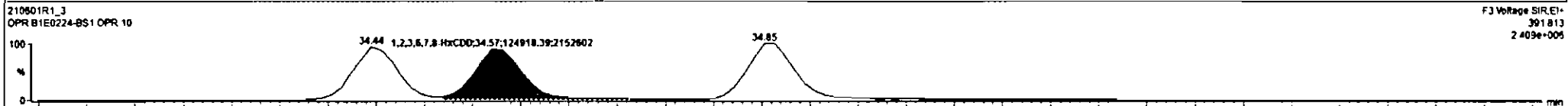
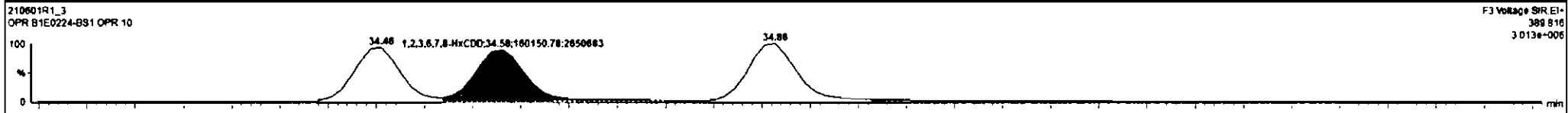
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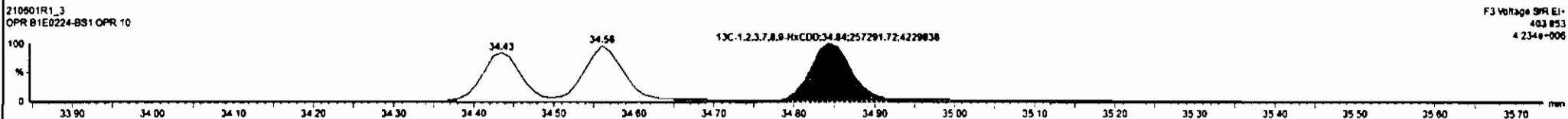
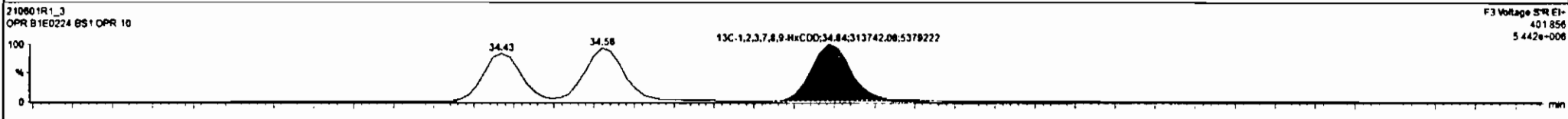
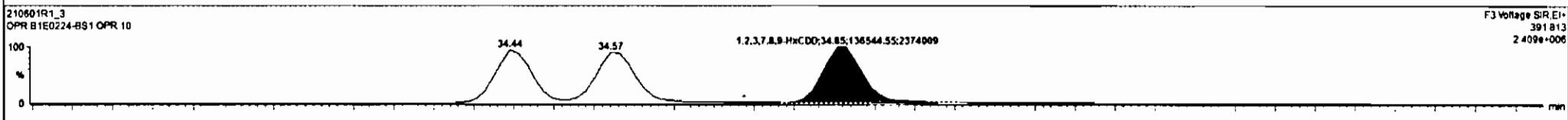
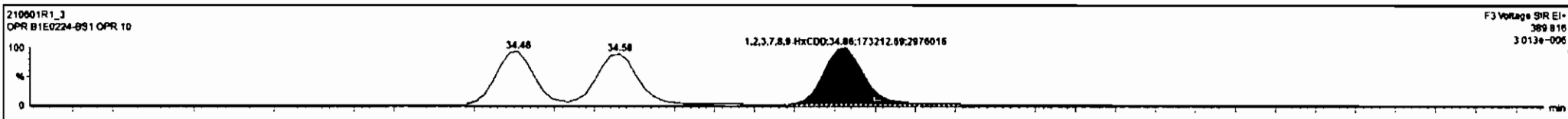


Name	Resp	RA	dy	RPF	Wt/Wt	RT	RRT	Cmc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	20.70	1.001	25.7	0.0381	25.7
2	1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8257	10.000	31.10	1.000	126	0.258	126
3	1,2,3,4,7,8-HxCDD	2.75e5	1.26	NO	0.8725	10.000	34.48	1.001	127	0.232	127
4	1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122	0.231	122
5	1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.8739	10.000	34.86	1.001	124	0.212	124
6	1,2,3,4,6,7,8-HpCDD	2.33e5	1.08	NO	0.8967	10.000	38.26	1.001	123	0.378	123
7	OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247	0.611	247
8	2,3,7,8-TCDF	9.97e4	0.74	NO	0.7408	10.000	26.08	1.001	22.7	0.0456	22.7
9	1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.81	1.000	126	0.526	126
10	2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.9821	10.000	30.94	1.000	124	0.500	124
11	1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.8202	10.000	33.51	1.000	119	0.355	119
12	1,2,3,6,7,8-HxCDF	4.06e5	1.23	NO	0.9363	10.000	33.66	1.001	117	0.320	117
13	2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.95	1.001	120	0.380	120
14	1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.9398	10.000	35.42	1.001	123	0.511	123
15	1,2,3,4,6,7,8-HpCDF	2.67e5	0.99	NO	1.0481	10.000	37.04	1.000	118	0.428	118
16	1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.0453	10.000	38.80	1.000	116	0.441	116
17	OCDF	4.00e5	0.88	NO	0.7712	10.000	41.65	1.001	240	0.581	240
18	1,2,3,7,8-TCDF	8.48e5	0.80	NO	1.1040	10.000	26.67	1.027	205	1.03	0.144



210601R1_3 CAP.MJM

Name	Resp	RA	aly	RRP	wtVrat	RT	RRT	Comp	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	26.70	1.001	25.7	0.0361	25.7	
2 1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8257	10.000	31.10	1.000	126	0.258	126	
3 1,2,3,4,7,8-HxCDD	2.75e5	1.28	NO	0.9725	10.000	34.46	1.001	127	0.232	127	
4 1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122	0.231	122	
5 1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.8750	10.000	34.66	1.001	124	0.212	124	
6 1,2,3,4,6,7,8-HpCDD	2.33e5	1.06	NO	0.8987	10.000	34.26	1.001	123	0.370	123	
7 OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247	0.611	247	
8 2,3,7,8-TCDF	9.97e4	0.74	NO	0.7488	10.000	26.08	1.001	22.7	0.0456	22.7	
9 1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.81	1.000	126	0.526	126	
10 2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.9521	10.000	30.94	1.000	124	0.500	124	
11 1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9202	10.000	33.51	1.000	119	0.355	119	
12 1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9383	10.000	33.86	1.001	117	0.328	117	
13 2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120	0.360	120	
14 1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.9395	10.000	35.42	1.001	123	0.511	123	
15 1,2,3,4,6,7,8-HpCDF	2.67e5	0.99	NO	1.0481	10.000	37.84	1.000	118	0.428	118	
16 1,2,3,4,7,8,9-HpCDF	2.36e5	1.00	NO	1.0453	10.000	38.90	1.000	116	0.441	116	
17 OCDF	4.00e5	0.88	NO	0.7712	10.000	41.65	1.001	240	0.581	240	
18 13C-2,3,7,8-TCDD	8.48e5	0.80	NO	1.1049	10.000	26.87	1.027	205	103	0.144	



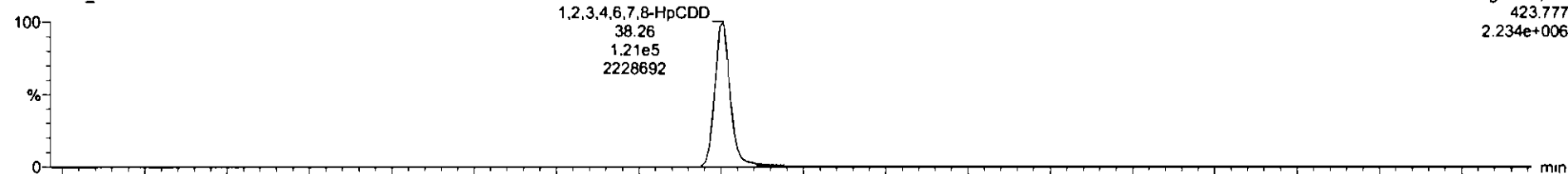
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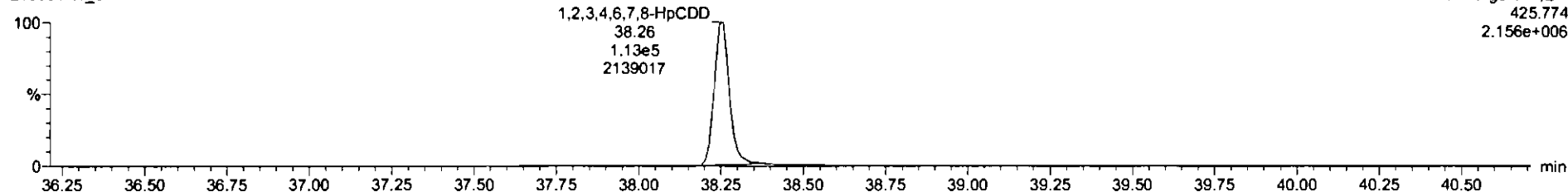
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1,2,3,4,6,7,8-HpCDD

210601R1_3

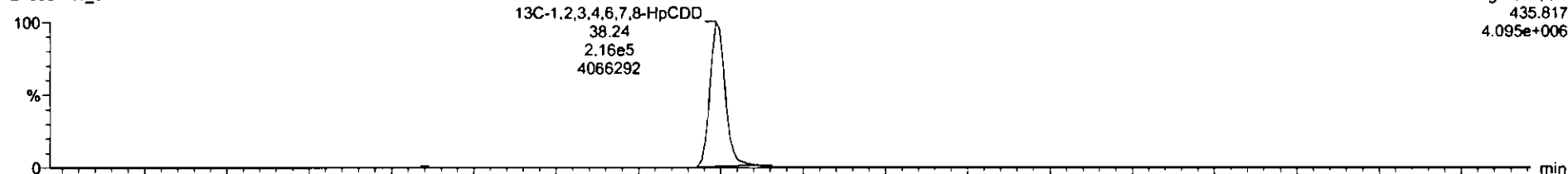


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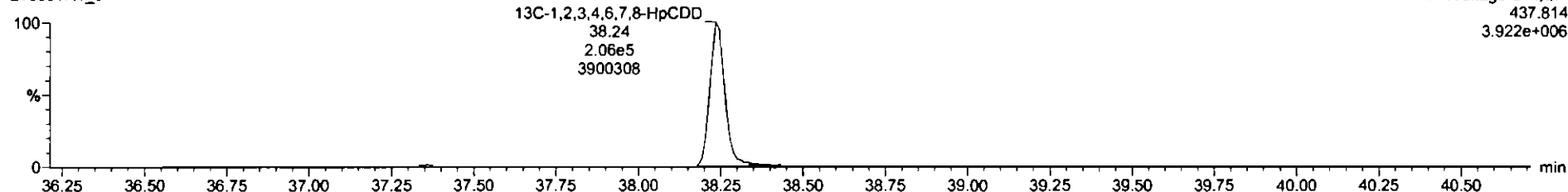


13C-1,2,3,4,6,7,8-HpCDD

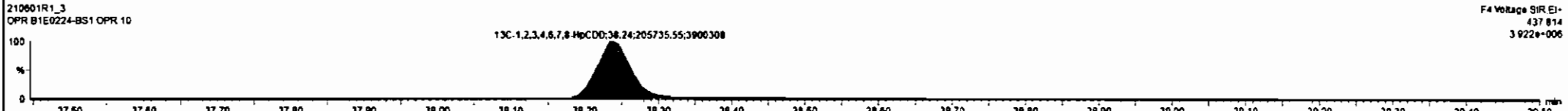
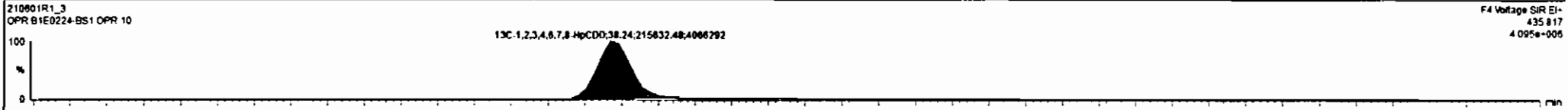
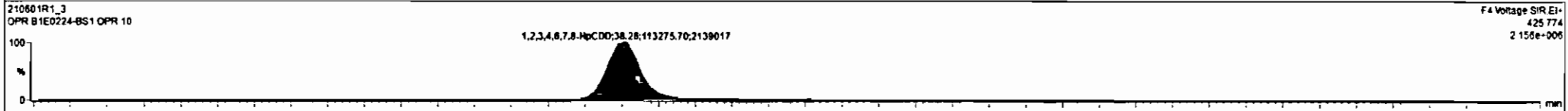
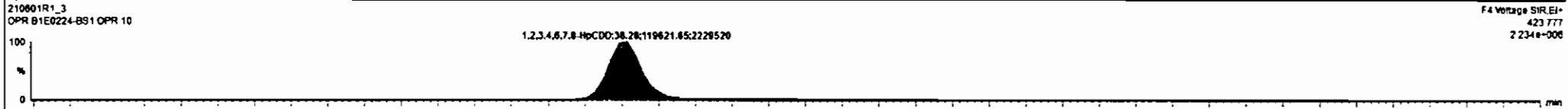
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210601R1_3



Name	Resp	RA	Wt	RRF	WtVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	28.70	1.001	25.7		0.0381	25.7
2 1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8257	10.000	31.18	1.006	126		0.258	126
3 1,2,3,4,7,8-HxCDD	2.75e5	1.26	NO	0.9725	10.000	34.46	1.001	127		0.232	127
4 1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122		0.231	122
5 1,2,3,7,8,9-HxCDD	3.18e5	1.27	NO	0.8739	10.000	34.86	1.001	124		0.212	124
6 1,2,3,4,6,7,8-HpCDD	2.35e5	1.08	NO	0.8887	10.000	38.28	1.001	123		0.370	123
7 OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247		0.611	247
8 2,3,7,8-TCDF	9.97e4	0.74	NO	0.7488	10.000	28.08	1.001	22.7		0.0458	22.7
9 1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.91	1.000	126		0.528	126
10 2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.9521	10.000	30.94	1.000	124		0.500	124
11 1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9202	10.000	33.51	1.000	119		0.355	119
12 1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9363	10.000	33.68	1.001	117		0.320	117
13 2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120		0.380	120
14 1,2,3,7,8,9-HxCDF	3.60e5	1.23	NO	0.9396	10.000	35.42	1.001	123		0.511	123
15 1,2,3,4,6,7,8-HpCDF	2.67e5	0.99	NO	1.0481	10.000	37.04	1.000	118		0.428	118
16 1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.0453	10.000	38.90	1.000	118		0.441	118
17 OCDF	4.65e5	0.88	NO	0.7712	10.000	41.65	1.001	240		0.581	240
18 1,2,3,7,8-TCDF	8.48e5	0.80	NO	1.1040	10.000	26.67	1.027	205	103	0.144	



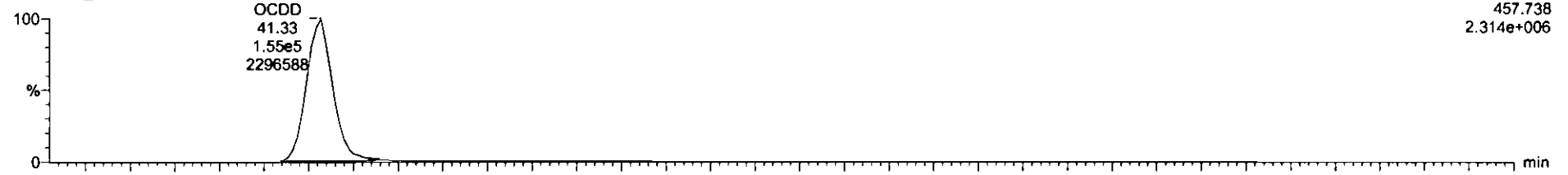
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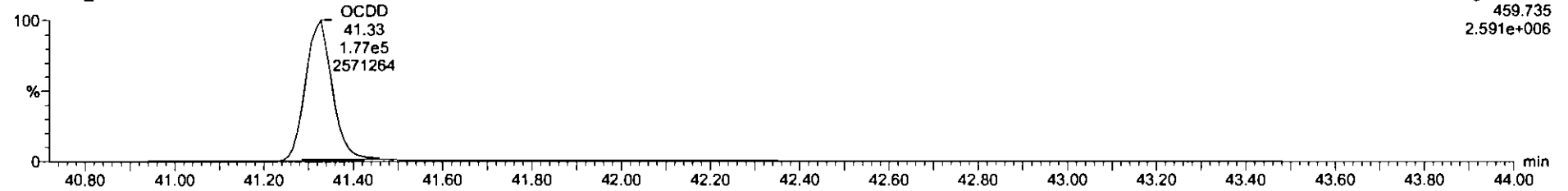
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OCDD

210601R1_3

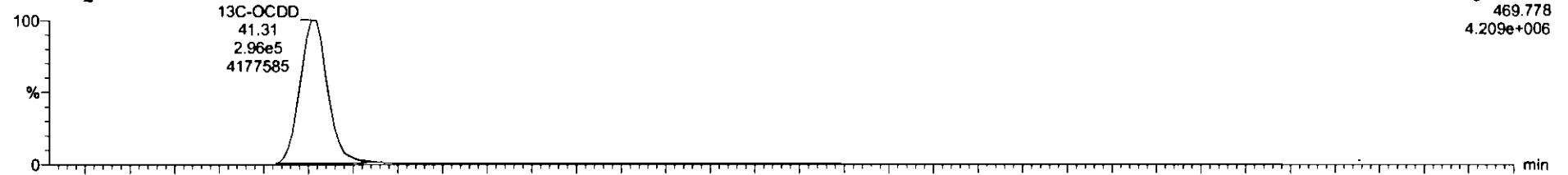


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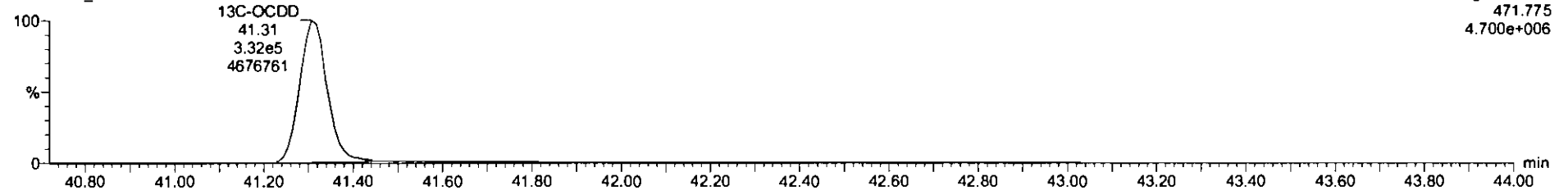


13C-OCDD

210601R1_3



210601R1_3



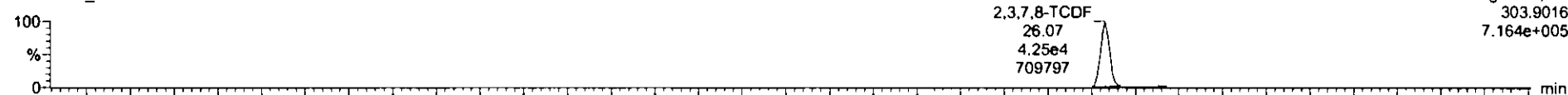
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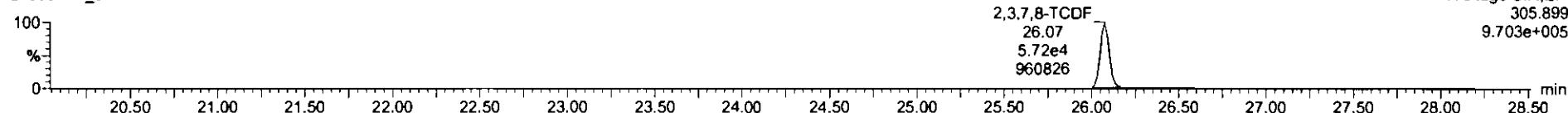
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2,3,7,8-TCDF

210601R1_3

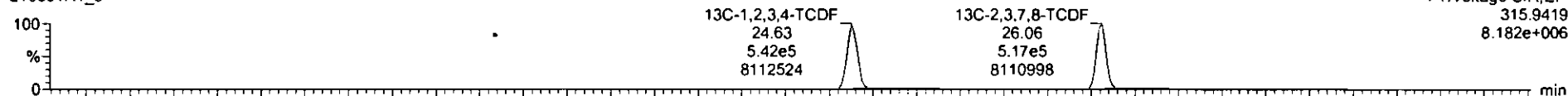


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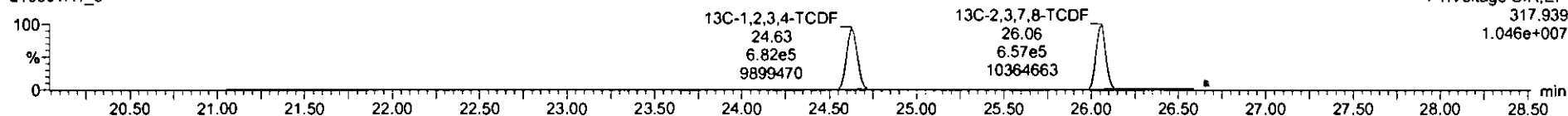


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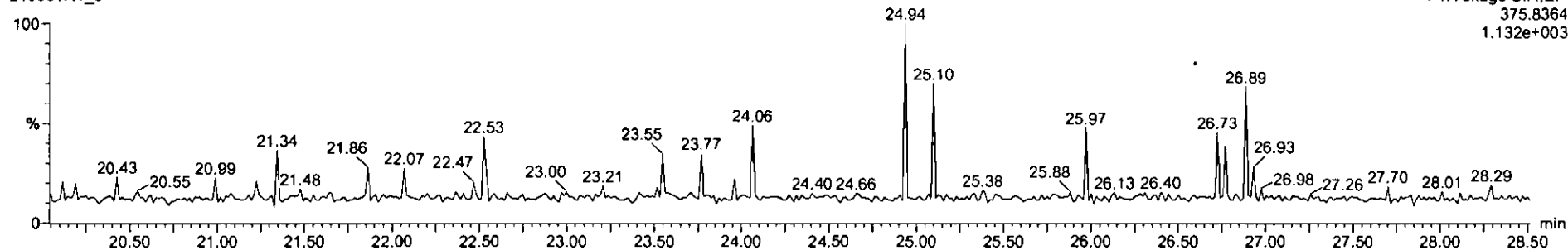


210601R1_3



DPE1

210601R1_3



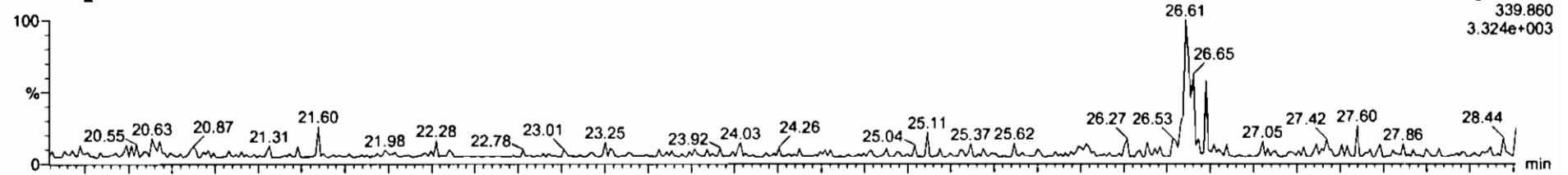
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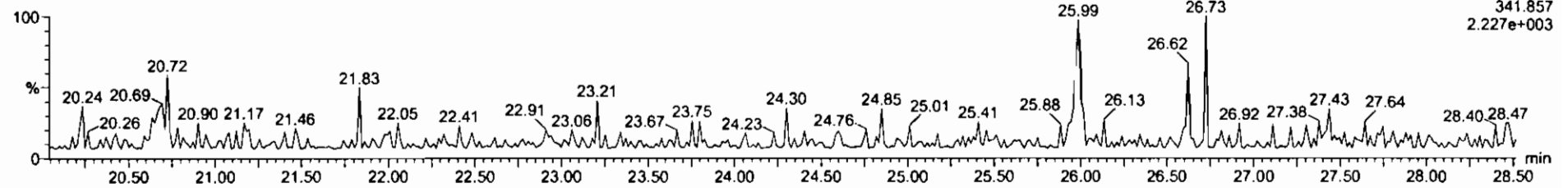
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1st Func. Penta-Furans

210601R1_3

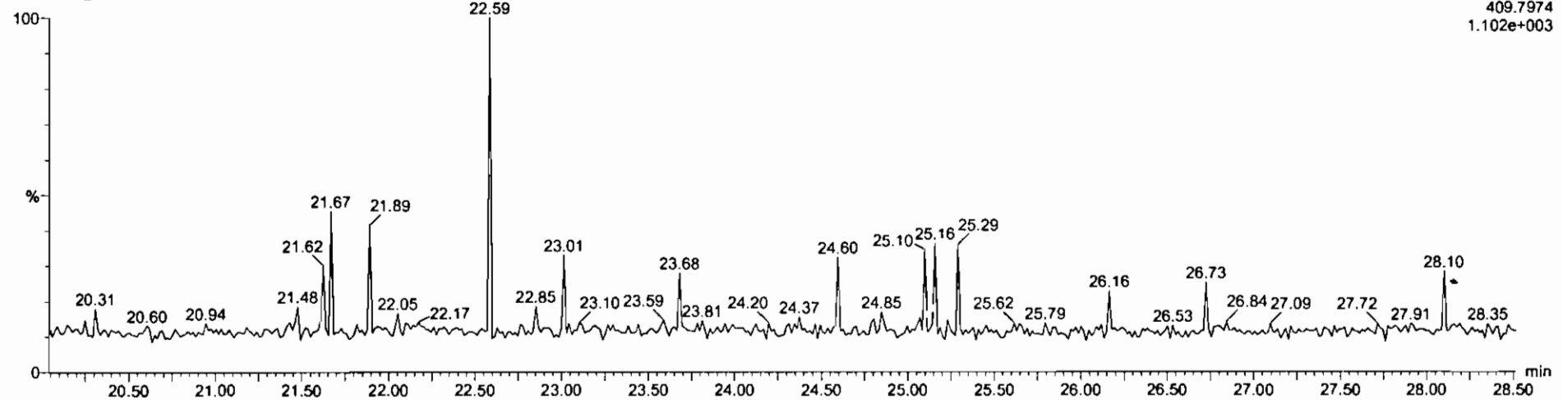


210601R1_3



DPE6

210601R1_3



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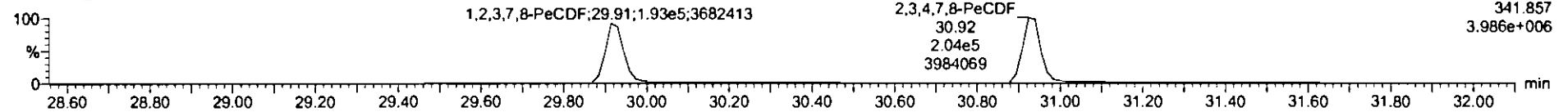
1,2,3,7,8-PeCDF

210601R1_3



F2:Voltage SIR,EI+
339.860
6.214e+006

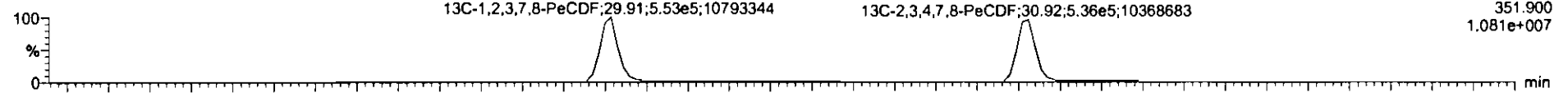
210601R1_3



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3.986e+006

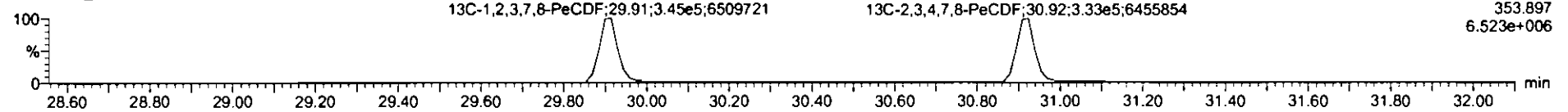
13C-1,2,3,7,8-PeCDF

210601R1_3



F2:Voltage SIR,EI+
351.900
1.081e+007

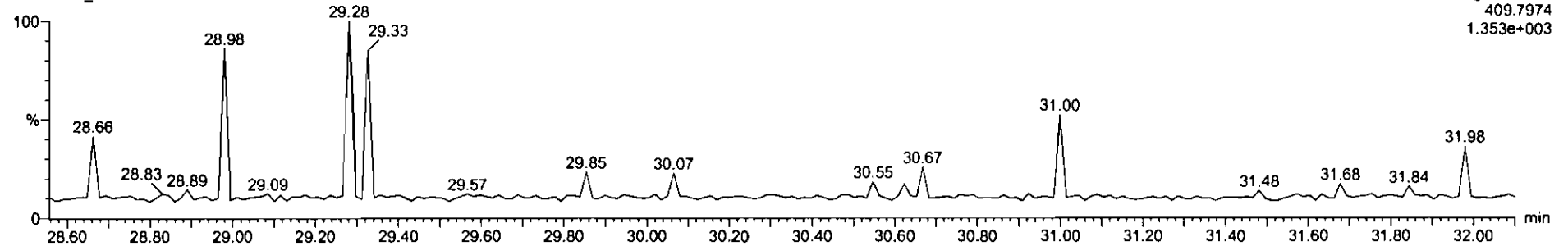
210601R1_3



F2:Voltage SIR,EI+
353.897
6.523e+006

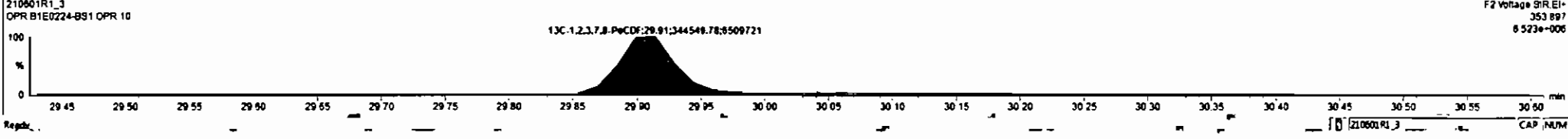
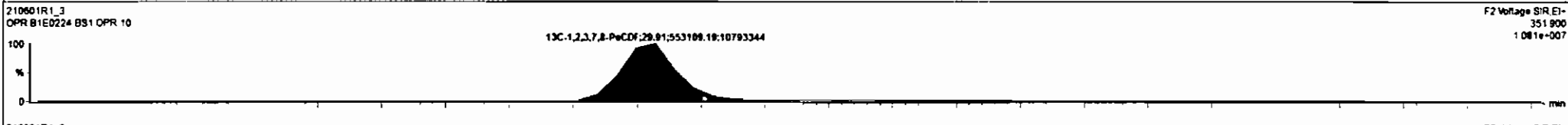
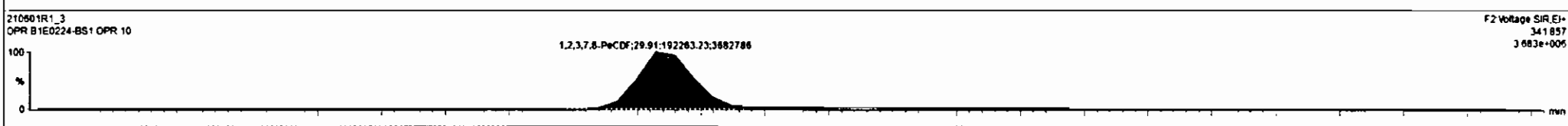
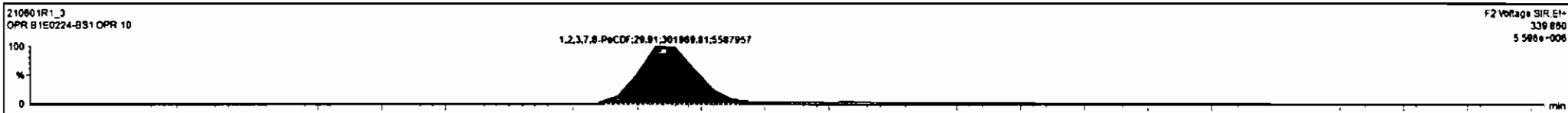
DPE2

210601R1_3



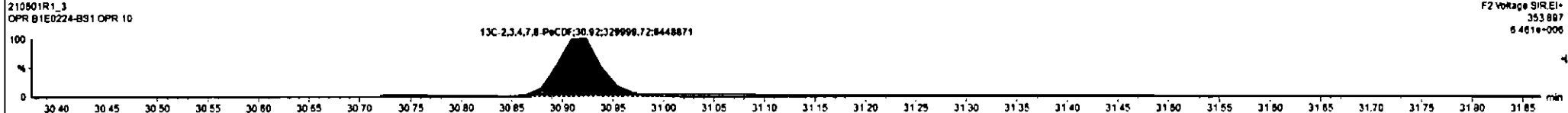
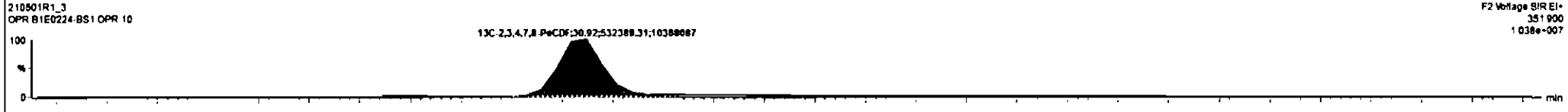
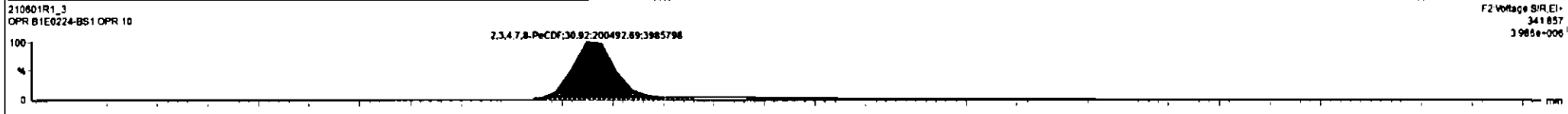
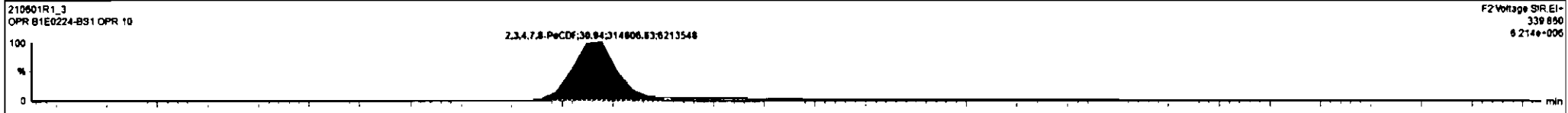
F2:Voltage SIR,EI+
409.7974
1.353e+003

Sl	Name	Resp	RA	ivy	RRF	wt%val	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	29.70	1.001	25.7	0.0361	25.7	
2	1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8257	10.000	31.19	1.000	126	0.258	126	
3	1,2,3,4,7,8-HxCDD	2.75e5	1.28	NO	0.9725	10.000	34.48	1.001	127	0.232	127	
4	1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122	0.231	122	
5	1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.8730	10.000	34.00	1.001	124	0.212	124	
6	1,2,3,4,6,7,8-HpCDD	2.33e5	1.08	NO	0.8987	10.000	36.26	1.001	123	0.370	123	
7	OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247	0.611	247	
8	2,3,7,8-TCDF	9.97e4	0.74	NO	0.7488	10.000	28.08	1.001	22.7	0.0456	22.7	
9	1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.91	1.000	126	0.520	126	
10	1,2,3,4,7,8-HxCDF	5.15e5	1.57	NO	0.9621	10.000	30.94	1.000	124	0.500	124	
11	1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9202	10.000	33.51	1.000	119	0.355	119	
12	1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9383	10.000	33.06	1.001	117	0.320	117	
13	2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120	0.380	120	
14	1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.9396	10.000	35.42	1.001	123	0.511	123	
15	1,2,3,4,6,7,8-HpCDF	2.67e5	0.99	NO	1.0481	10.000	37.04	1.000	118	0.428	118	
16	1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.0453	10.000	38.90	1.000	118	0.441	118	
17	OCDF	4.00e5	0.68	NO	0.7712	10.000	41.85	1.001	240	0.581	240	
18	13C-2,3,7,8-TCDD	8.48e5	0.80	NO	1.1040	10.000	28.67	1.027	205	103	0.144	



210601R1_3 - B1E0224 BS1 OPR 10 - OPR

Name	Req	RA	ndf	RRF	wt%	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.81e5	0.73	NO	0.8291	10.000	26.70	1.001	25.7		0.0361	25.7
2 1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8297	10.000	31.18	1.000	126		0.254	126
3 1,2,3,4,7,8-HxCDD	2.75e5	1.26	NO	0.8725	10.000	34.46	1.001	127		0.232	127
4 1,2,3,6,7,8-HxCDD	2.85e5	1.26	NO	0.8771	10.000	34.58	1.001	122		0.231	122
5 1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.8738	10.000	34.86	1.001	124		0.212	124
6 1,2,3,4,6,7,8-HpCDD	2.33e5	1.06	NO	0.8987	10.000	38.28	1.001	123		0.370	123
7 OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247		0.611	247
8 2,3,7,8-TCDF	9.97e4	0.74	NO	0.7406	10.000	26.06	1.001	22.7		0.0456	22.7
9 1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.91	1.000	126		0.526	126
10 2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.8621	10.000	30.94	1.000	124		0.550	124
11 1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9282	10.000	33.51	1.000	119		0.355	119
12 1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9363	10.000	33.66	1.001	117		0.320	117
13 2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120		0.360	120
14 1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.9396	10.000	35.42	1.001	123		0.511	123
15 1,2,3,4,6,7,8-HpCDF	2.87e5	0.99	NO	1.0481	10.000	37.04	1.000	118		0.428	118
16 1,2,3,4,7,8,9-HpCDF	2.58e5	1.00	NO	1.0453	10.000	38.90	1.000	116		0.441	116
17 OCDF	4.00e5	0.85	NO	0.7712	10.000	41.65	1.001	240		0.581	240
18 1,2,3,7,8-TCDF	8.48e5	0.80	NO	1.1040	10.000	26.67	1.027	205	103	0.144	



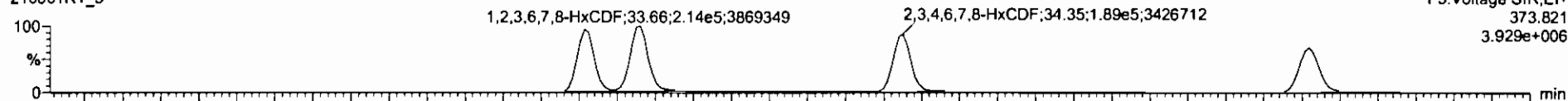
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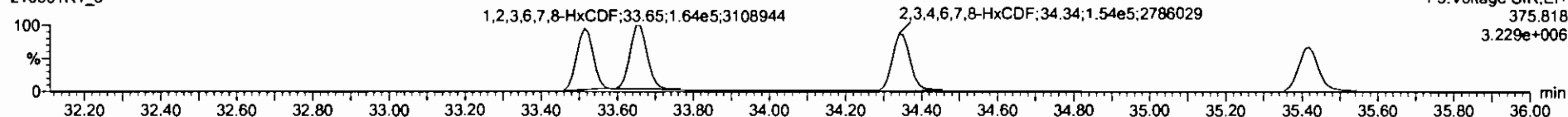
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1,2,3,4,7,8-HxCDF

210601R1_3

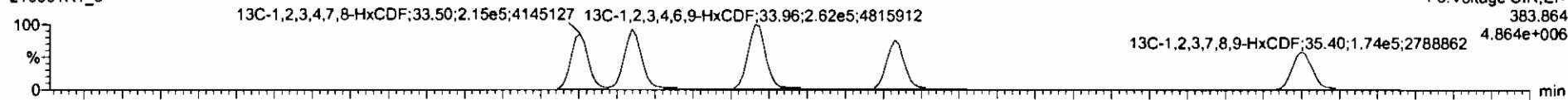


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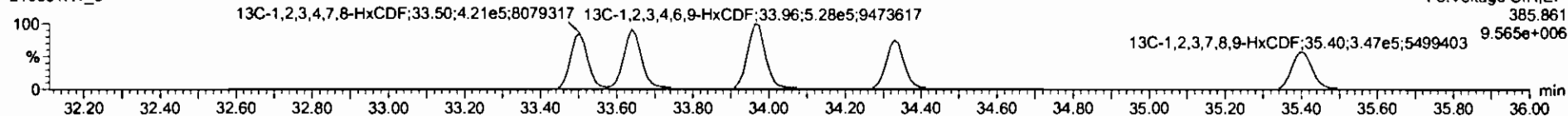


13C-1,2,3,4,7,8-HxCDF

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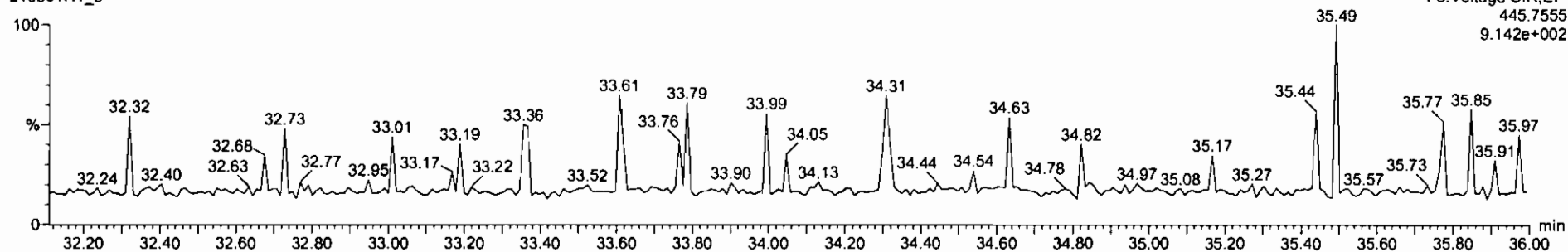


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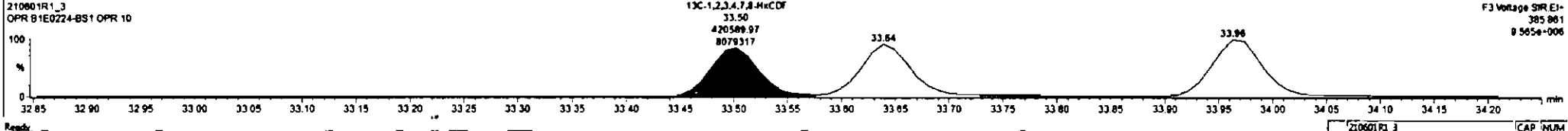
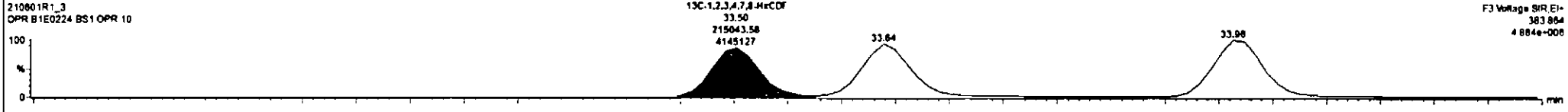
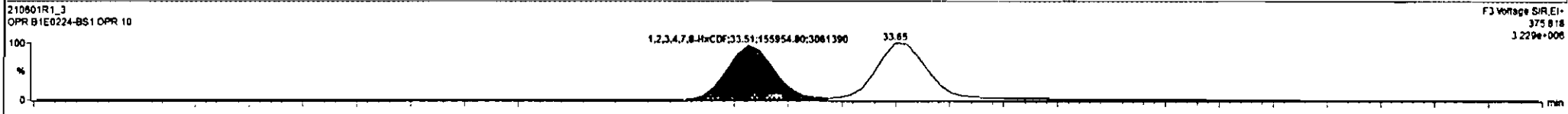
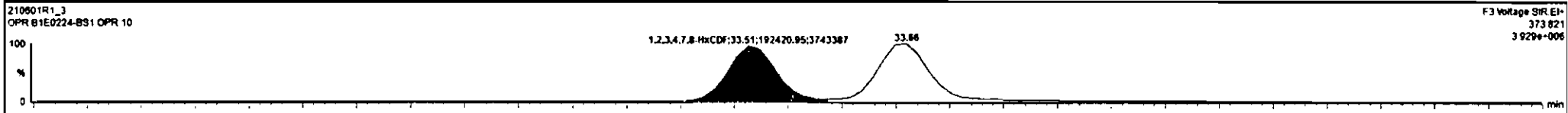
DPE3

210601R1_3



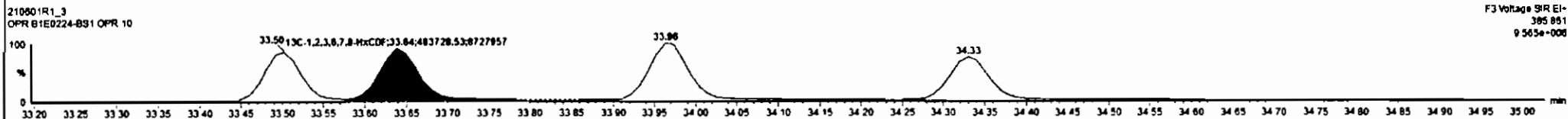
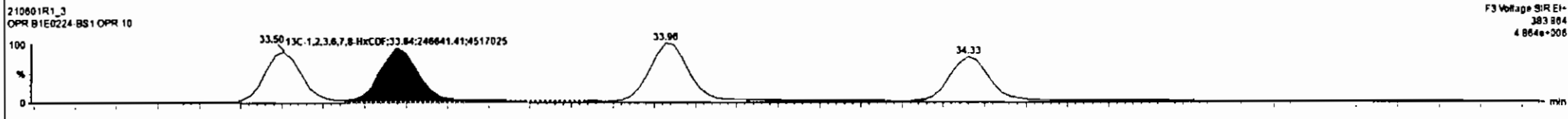
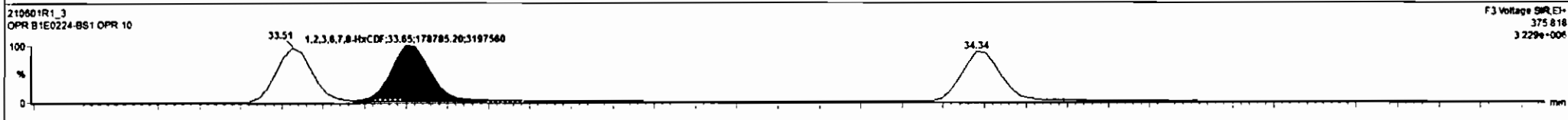
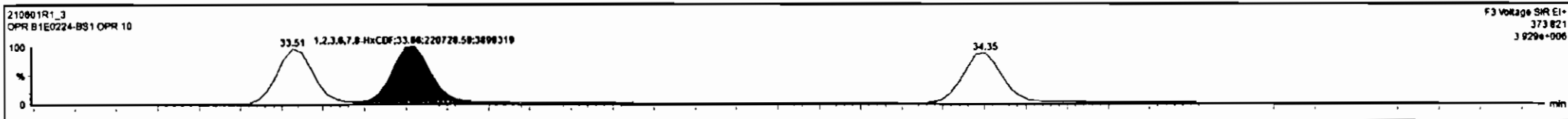
210601R1_3 - B1E0224 BS1 OPR 10 - OPR

#	Name	Resp	RA	ny	RRF	width	RT	RRT	Comp	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	28.70	1.001	25.7		0.0361	25.7
2	1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8257	10.000	31.10	1.000	126		0.258	126
3	1,2,3,4,7,8-HxCDD	2.75e5	1.26	NO	0.9725	10.000	34.48	1.001	127		0.232	127
4	1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122		0.231	122
5	1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.8739	10.000	34.86	1.001	124		0.212	124
6	1,2,3,4,6,7,8-HpCDD	2.33e5	1.06	NO	0.8867	10.000	36.20	1.001	123		0.370	123
7	OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247		0.611	247
8	2,3,7,8-TCDF	9.97e4	0.74	NO	0.7488	10.000	28.08	1.001	22.7		0.0458	22.7
9	1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.91	1.000	126		0.528	126
10	2,3,4,7,8-HxCDF	5.15e5	1.57	NO	0.9521	10.000	30.94	1.000	124		0.580	124
11	1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.8202	10.000	33.51	1.000	119		0.353	119
12	1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9363	10.000	33.06	1.001	117		0.320	117
13	2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120		0.300	120
14	1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.9398	10.000	35.42	1.001	123		0.511	123
15	1,2,3,4,6,7,8-HpCDF	2.67e5	0.99	NO	1.0481	10.000	37.04	1.000	118		0.428	118
16	1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.0453	10.000	38.90	1.000	116		0.441	116
17	OCDF	4.00e5	0.88	NO	0.7712	10.000	41.65	1.001	240		0.581	240
18	13C-2,3,7,8-TCDD	8.48e5	0.80	NO	1.1040	10.000	28.67	1.027	205	103	0.144	

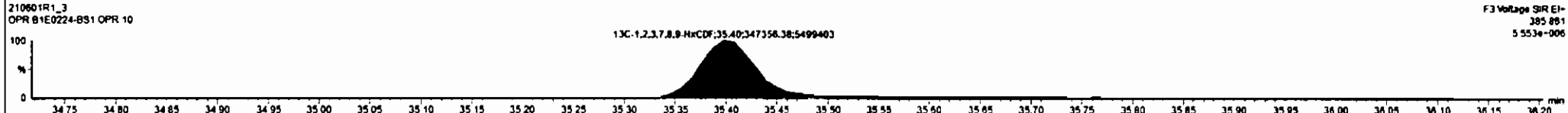
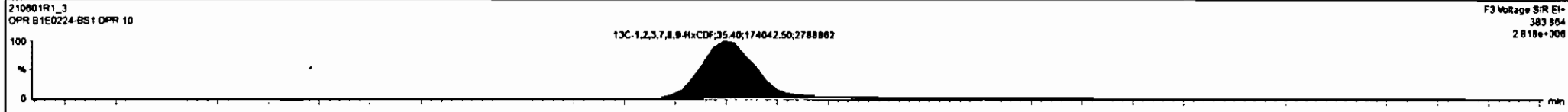
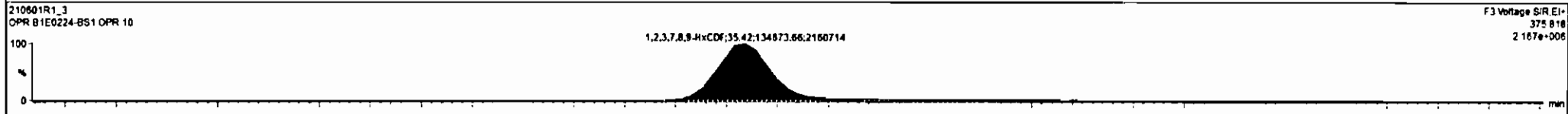
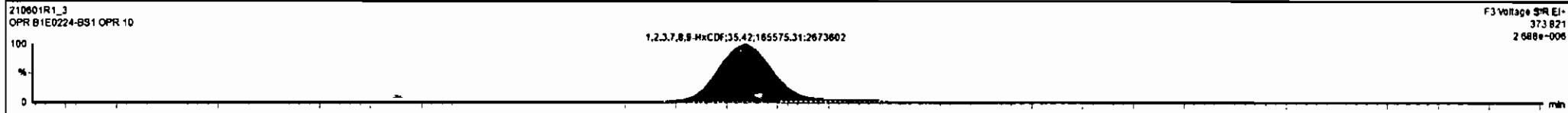


210601R1_3 B1E0224 BS1 OPR 10 OPR

Name	Resp	RA	ny	RRF	wtVal	RT	RRT	Conc	%Acc	DL	EMPC
1 2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	26.70	1.001	25.7		0.8361	25.7
2 1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8257	10.000	31.10	1.000	126		0.258	126
3 1,2,3,4,7,8-HxCDD	2.75e5	1.26	NO	0.9725	10.000	34.48	1.001	127		0.232	127
4 1,2,3,6,7,8-HxCDD	2.85e5	1.26	NO	0.8771	10.000	34.58	1.001	122		0.231	122
5 1,2,3,7,8-HxCDD	3.10e5	1.27	NO	0.8738	10.000	34.86	1.001	124		0.212	124
6 1,2,3,4,6,7,8-HpCDD	2.33e5	1.06	NO	0.8667	10.000	36.26	1.001	123		0.370	123
7 OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247		0.611	247
8 2,3,7,8-TCDF	8.97e4	0.74	NO	0.7486	10.000	26.09	1.001	22.7		0.6458	22.7
9 1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.81	1.000	126		0.526	126
10 2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.9621	10.000	30.94	1.000	124		0.500	124
11 1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9202	10.000	33.51	1.000	119		0.355	119
12 1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9363	10.000	33.66	1.001	117		0.329	117
13 2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120		0.300	120
14 1,2,3,7,8-HxCDF	3.00e5	1.23	NO	0.9396	10.000	35.42	1.001	123		0.511	123
15 1,2,3,4,6,7,8-HpCDF	2.67e5	0.99	NO	1.0481	10.000	37.04	1.000	118		0.428	118
16 1,2,3,4,7,8,9-HpCDF	2.35e5	1.00	NO	1.0453	10.000	38.90	1.000	118		0.441	118
17 OCDF	4.80e5	0.88	NO	0.7712	10.000	41.85	1.001	240		0.581	240
18 13C-2,3,7,8-TCDD	8.45e5	0.80	NO	1.1040	10.000	26.67	1.027	205	103	0.144	



Sl	Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Comp	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	28.70	1.001	25.7		0.0361	25.7
2	1,2,3,7,8-PeCDD	3.20e5	0.62	NO	0.8257	10.000	31.10	1.000	126		0.258	126
3	1,2,3,4,7,8-HxCDD	2.75e5	1.26	NO	0.9725	10.000	34.46	1.001	127		0.232	127
4	1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122		0.231	122
5	1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.8739	10.000	34.86	1.001	124		0.212	124
6	1,2,3,4,6,7,8-HpCDD	2.33e5	1.08	NO	0.6967	10.000	38.26	1.001	123		0.370	123
7	OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247		0.611	247
8	2,3,7,8-TCDF	9.97e4	0.74	NO	0.7488	10.000	28.08	1.001	22.7		0.9456	22.7
9	1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.8771	10.000	29.91	1.000	125		0.526	126
10	2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.9521	10.000	30.94	1.000	124		0.580	124
11	1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9202	10.000	33.51	1.000	119		0.355	119
12	1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9363	10.000	33.86	1.001	117		0.320	117
13	2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120		0.380	120
14	1,2,3,7,8,9-HxCDF	3.06e5	1.23	NO	0.8364	10.000	35.42	1.001	125		0.571	125
15	1,2,3,4,6,7,8-HpCDF	2.87e5	0.99	NO	1.0481	10.000	37.84	1.000	118		0.428	118
16	1,2,3,4,7,8,9-HpCDF	2.38e5	1.00	NO	1.0453	10.000	38.90	1.000	116		0.441	116
17	OCDF	4.00e5	0.88	NO	0.7712	10.000	41.85	1.001	240		0.581	240
18	1,2,3,7,8,9-HxCDF	8.48e5	0.80	NO	1.1040	10.000	26.67	1.027	205	103	0.144	

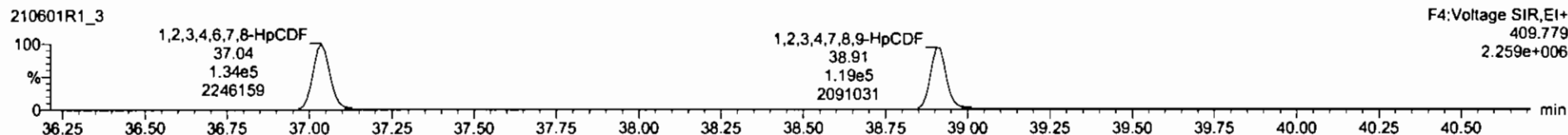
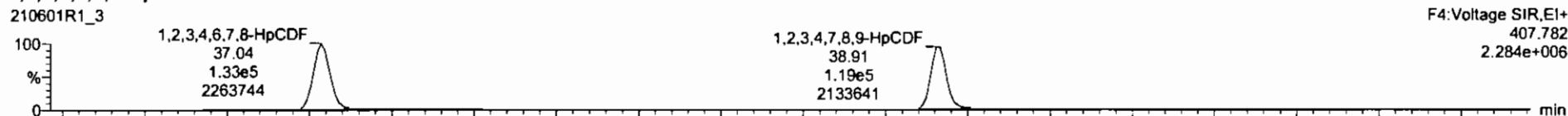


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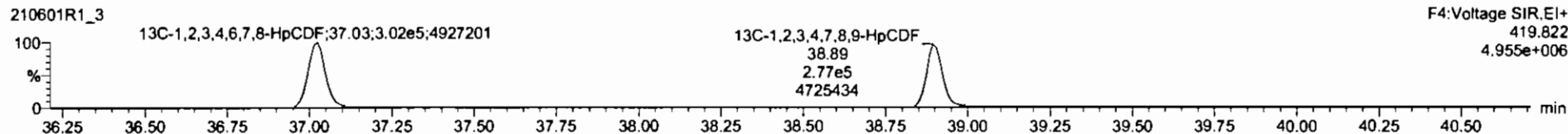
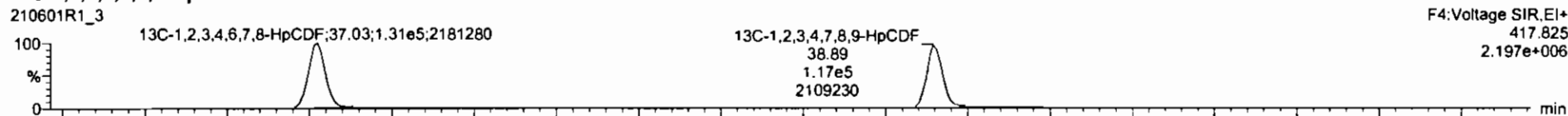
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Name: 210601R1_3, Date: 01-Jun-2021, Time: 11:11:26, ID: B1E0224-BS1 OPR 10, Description: OPR

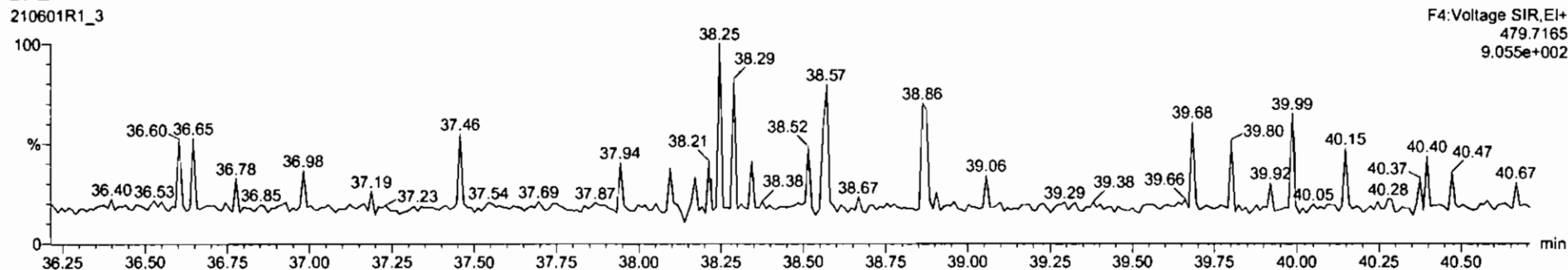
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13C-1,2,3,4,6,7,8-HpCDF

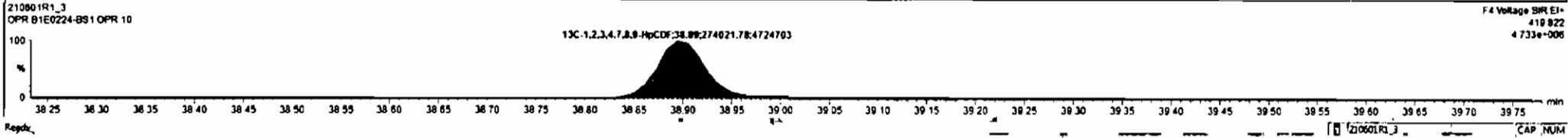
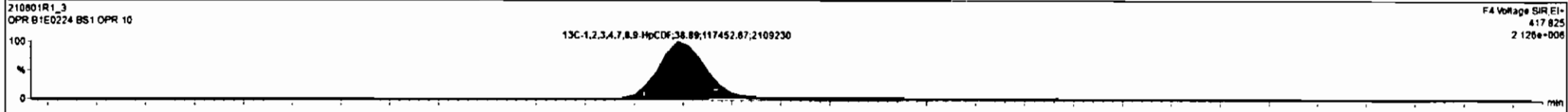
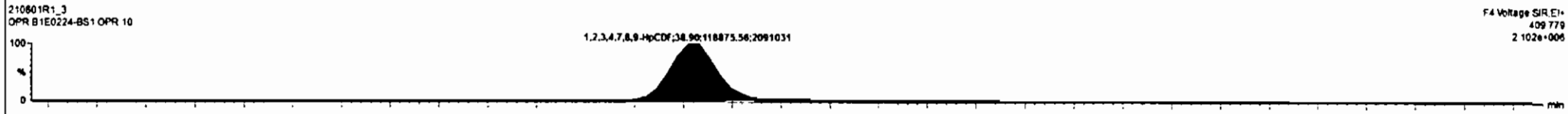
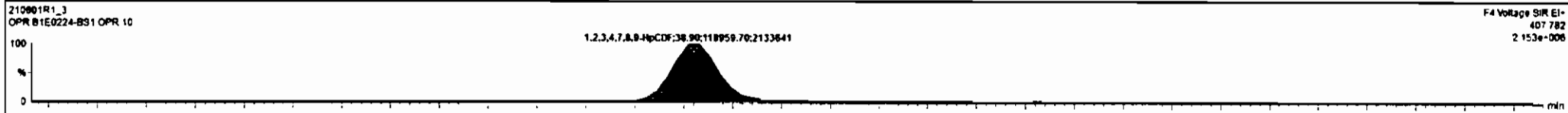


DPE4



210601R1_3 - B1E0224 BS1 OPR 10 - OPR

#	Name	Retp	RA	aly	RRF	width	RT	RFT	Conc	%Rec	+ DL	EMPC
1	2,3,7,8-TCDD	1.01e5	0.73	NO	0.9291	10.000	20.70	1.001	25.7	0.9361	25.7	
2	1,2,3,7,8-PeCDD	3.20e5	0.82	NO	0.8257	10.000	31.10	1.000	126	0.258	126	
3	1,2,3,4,7,8-HxCDD	2.73e5	1.26	NO	0.9725	10.000	34.46	1.001	127	0.232	127	
4	1,2,3,6,7,8-HxCDD	2.85e5	1.28	NO	0.8771	10.000	34.58	1.001	122	0.231	122	
5	1,2,3,7,8,9-HxCDD	3.10e5	1.27	NO	0.8739	10.000	34.80	1.001	124	0.212	124	
6	1,2,3,4,6,7,8-HpCDD	2.33e5	1.08	NO	0.6987	10.000	36.20	1.001	123	0.370	123	
7	OCDD	3.31e5	0.87	NO	0.8524	10.000	41.33	1.001	247	0.611	247	
8	2,3,7,8-TCDF	9.97e4	0.74	NO	0.7486	10.000	20.00	1.001	22.7	0.9458	22.7	
9	1,2,3,7,8-PeCDF	4.94e5	1.57	NO	0.6771	10.000	29.91	1.000	120	0.526	126	
10	2,3,4,7,8-PeCDF	5.15e5	1.57	NO	0.9021	10.000	30.94	1.000	124	0.500	124	
11	1,2,3,4,7,8-HxCDF	3.48e5	1.23	NO	0.9202	10.000	33.51	1.000	119	0.355	119	
12	1,2,3,6,7,8-HxCDF	4.00e5	1.23	NO	0.9363	10.000	33.66	1.001	117	0.320	117	
13	2,3,4,6,7,8-HxCDF	3.43e5	1.22	NO	0.9725	10.000	34.35	1.001	120	0.300	120	
14	1,2,3,7,8,9-HxCDF	3.00e5	1.23	NO	0.9396	10.000	35.42	1.001	123	0.511	123	
15	1,2,3,4,6,7,8-HpCDF	2.67e5	0.80	NO	1.0481	10.000	37.04	1.000	118	0.428	118	
16	1,2,3,4,7,8,9-HpCDF	2.55e5	1.00	NO	1.0453	10.000	38.00	1.000	118	0.441	118	
17	OCDF	4.00e5	0.88	NO	0.7712	10.000	41.65	1.001	240	0.581	240	
18	13C-2,3,7,8-TCDD	8.48e5	0.80	NO	1.1040	10.000	26.67	1.027	205	103	0.144	



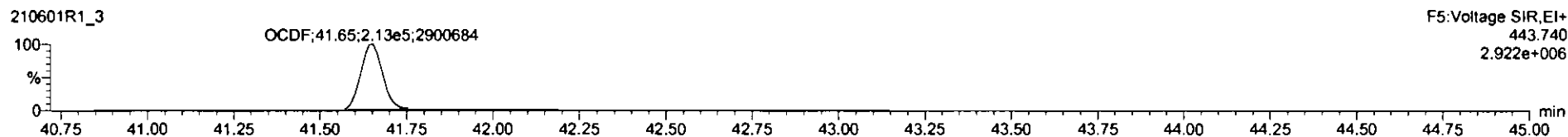
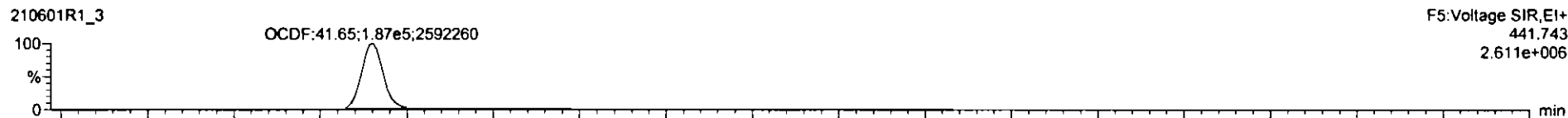
Quantify Sample Report
Vista Analytical Laboratory

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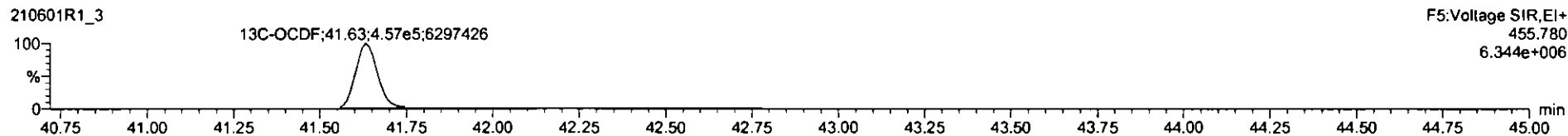
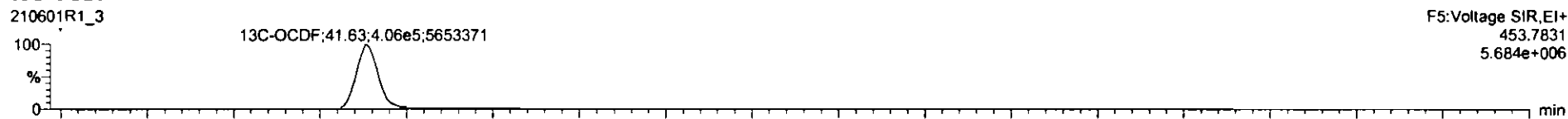
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Name: 210601R1_3, Date: 01-Jun-2021, Time: 11:11:26, ID: B1E0224-BS1 OPR 10, Description: OPR

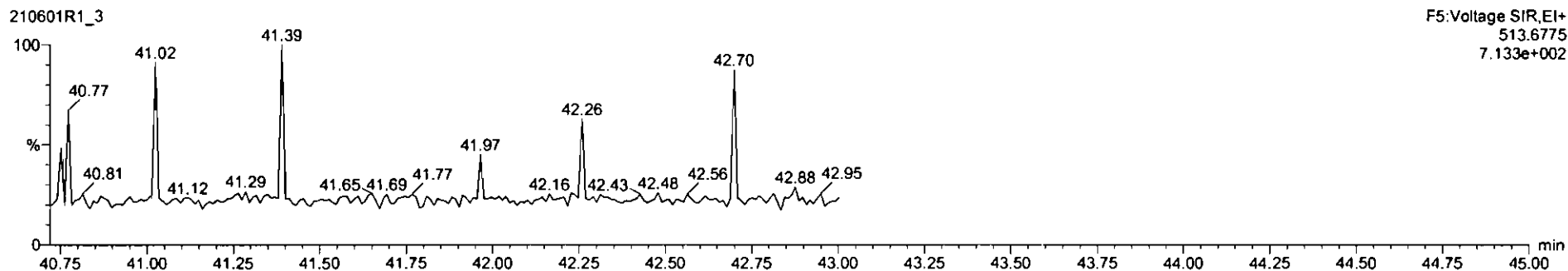
OCDF



13C-OCDF



DPE5



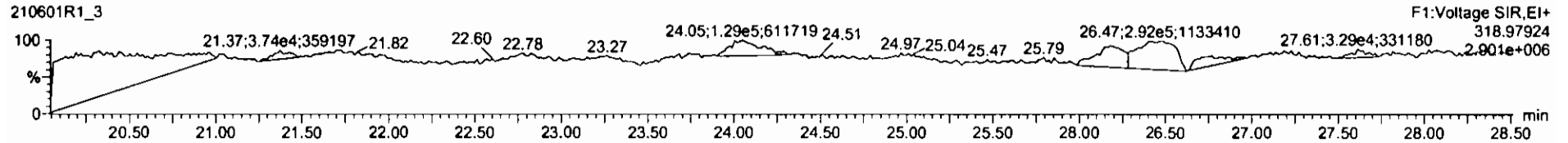
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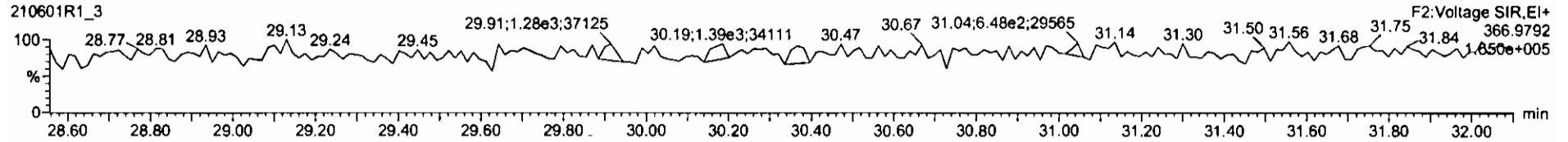
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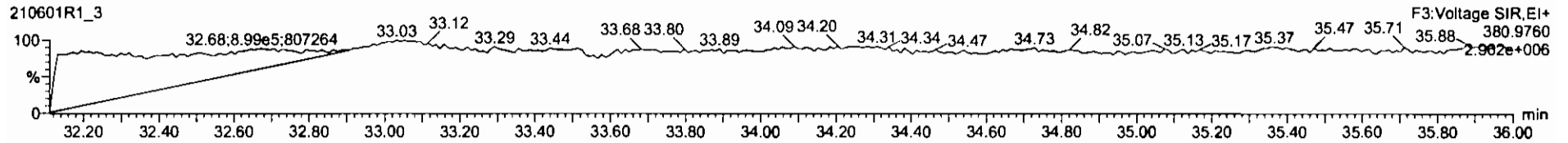
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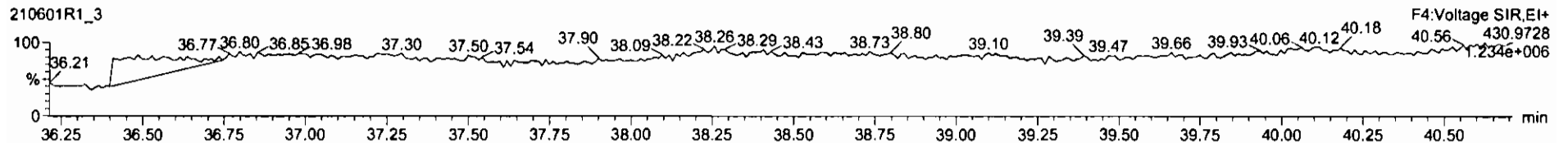
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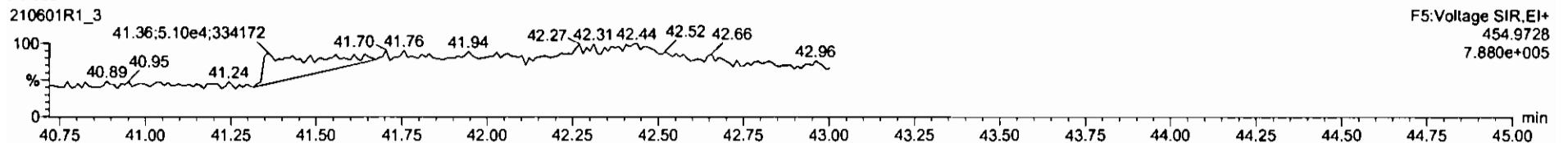
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\210602R1\210602R1_12.qld

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Printed: Wednesday, June 23, 2021 12:50:03 Pacific Daylight Time

DF 06/23/21

CT 06/23/2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504, Task: ST210602R1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.51e3	0.24	YES	0.929	10.023	26.71	1.001	0.99022		0.0518	0.436
2	1,2,3,7,8-PeCDD	2.18e3	0.59	NO	0.826	10.023	31.14	1.000	0.92359		0.165	0.924
3	1,2,3,4,7,8-HxCDD	4.32e3	1.26	NO	0.972	10.023	34.49	1.001	2.0081		0.229	2.01
4	1,2,3,6,7,8-HxCDD	1.56e4	1.30	NO	0.877	10.023	34.60	1.000	7.2496		0.237	7.25
5	1,2,3,7,8,9-HxCDD	8.41e3	1.23	NO	0.874	10.023	34.90	1.000	3.7425		0.229	3.74
6	1,2,3,4,6,7,8-HpCDD	4.09e5	1.03	NO	0.899	10.023	38.29	1.000	224.29		0.770	224
7	OCDD	3.11e6	0.87	NO	0.852	10.023	41.38	1.000	2096.4		1.22	2100
8	2,3,7,8-TCDF	1.25e4	0.78	NO	0.747	10.023	26.09	1.001	4.1501		0.0971	4.15
9	1,2,3,7,8-PeCDF	1.36e4	1.42	NO	0.877	10.023	29.94	1.001	4.2279		0.224	4.23
10	2,3,4,7,8-PeCDF	9.74e3	1.45	NO	0.962	10.023	30.97	1.001	2.6973		0.182	2.70
11	1,2,3,4,7,8-HxCDF	1.90e4	1.24	NO	0.920	10.023	33.54	1.000	7.0982		0.0985	7.10
12	1,2,3,6,7,8-HxCDF	7.27e3	1.20	NO	0.936	10.023	33.68	1.000	2.6851		0.0940	2.69
13	2,3,4,6,7,8-HxCDF	4.17e3	1.19	NO	0.973	10.023	34.39	1.001	1.5833		0.102	1.58
14	1,2,3,7,8,9-HxCDF	1.99e3	1.23	NO	0.940	10.023	35.48	1.001	0.88508		0.138	0.885
15	1,2,3,4,6,7,8-HpCDF	4.38e4	1.00	NO	1.05	10.023	37.08	1.000	20.858		0.149	20.9
16	1,2,3,4,7,8,9-HpCDF	4.43e3	0.99	NO	1.05	10.023	38.95	1.000	2.4073		0.159	2.41
17	OCDF	8.86e4	0.87	NO	0.771	10.023	41.70	1.001	57.746		0.424	57.7
18	13C-2,3,7,8-TCDD	5.45e5	0.77	NO	1.10	10.023	26.70	1.028	57.714	28.9	0.0545	
19	13C-1,2,3,7,8-PeCDD	5.72e5	0.64	NO	0.864	10.023	31.12	1.198	77.379	38.8	0.129	
20	13C-1,2,3,4,7,8-HxCDD	4.41e5	1.29	NO	0.746	10.023	34.47	1.014	73.293	36.7	0.146	
21	13C-1,2,3,6,7,8-HxCDD	4.89e5	1.27	NO	0.847	10.023	34.59	1.018	71.565	35.9	0.129	
22	13C-1,2,3,7,8,9-HxCDD	5.13e5	1.23	NO	0.868	10.023	34.88	1.026	73.270	36.7	0.126	
23	13C-1,2,3,4,6,7,8-HpCDD	4.05e5	1.06	NO	0.664	10.023	38.28	1.126	75.554	37.9	0.187	
24	13C-OCDD	6.94e5	0.89	NO	0.561	10.023	41.37	1.217	153.46	38.5	0.231	
25	13C-2,3,7,8-TCDF	8.02e5	0.77	NO	1.09	10.023	26.08	1.004	56.288	28.2	0.0498	
26	13C-1,2,3,7,8-PeCDF	7.32e5	1.62	NO	0.809	10.023	29.93	1.152	69.370	34.8	0.155	
27	13C-2,3,4,7,8-PeCDF	7.49e5	1.58	NO	0.803	10.023	30.94	1.191	71.580	35.9	0.157	
28	13C-1,2,3,4,7,8-HxCDF	5.81e5	0.51	NO	1.01	10.023	33.53	0.986	71.236	35.7	0.184	
29	13C-1,2,3,6,7,8-HxCDF	5.77e5	0.50	NO	1.07	10.023	33.67	0.990	66.675	33.4	0.173	
30	13C-2,3,4,6,7,8-HxCDF	5.40e5	0.51	NO	0.910	10.023	34.36	1.011	73.658	36.9	0.204	

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_12.qld

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Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504, Task: ST210602R1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	4.78e5	0.49	NO	0.828	10.023	35.44	1.043	71.553	35.9	0.224	
32	13C-1,2,3,4,6,7,8-HpCDF	4.00e5	0.43	NO	0.661	10.023	37.07	1.090	75.085	37.6	0.232	
33	13C-1,2,3,4,7,8,9-HpCDF	3.52e5	0.42	NO	0.566	10.023	38.94	1.145	77.075	38.6	0.270	
34	13C-OCDF	7.94e5	0.88	NO	0.663	10.023	41.68	1.226	148.67	37.3	0.269	
35	37Cl-2,3,7,8-TCDD	1.65e6			2.07	10.023	26.71	1.028	93.226	117	0.0182	
36	13C-1,2,3,4-TCDD	1.71e6	0.78	NO	1.00	10.023	25.97	1.000	199.54	100	0.0601	
37	13C-1,2,3,4-TCDF	2.60e6	0.78	NO	1.00	10.023	24.64	1.000	199.54	100	0.0545	
38	13C-1,2,3,4,6,9-HxCDF	1.61e6	0.51	NO	1.00	10.023	33.99	1.000	199.54	100	0.186	
39	Total Tetra-Dioxins				0.929	10.023			4.1448		0.0518	5.35
40	Total Penta-Dioxins				0.826	10.023			7.4555		0.165	9.08
41	Total Hexa-Dioxins				0.877	10.023			104.57		0.239	105
42	Total Hepta-Dioxins				0.899	10.023			594.20		0.770	594
43	Total Tetra-Furans				0.747	10.023			17.901		0.0971	19.0
44	1st Func. Penta-Furans				0.877	10.023			7.2854		0.0194	7.29
45	Total Penta-Furans				0.877	10.023			15.076		0.212	15.1
46	Total Hexa-Furans				0.973	10.023			40.104		0.104	40.1
47	Total Hepta-Furans				1.05	10.023			62.354		0.154	62.4

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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504, Task: ST210602R1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	1.431e4	2.050e4	1.191e3	1.565e3	0.76	NO	2.756e3	1.0860	1.0860	0.0518
2	Total Tetra-Dioxins	23.58	9.920e3	1.394e4	7.215e2	1.058e3	0.68	NO	1.779e3	0.70107	0.70107	0.0518
3	Total Tetra-Dioxins	24.03	4.718e3	8.109e3	3.398e2	5.216e2	0.65	YES	0.000e0	0.00000	0.30775	0.0518
4	Total Tetra-Dioxins	24.80	5.136e3	6.728e3	3.195e2	3.994e2	0.80	NO	7.190e2	0.28329	0.28329	0.0518
5	Total Tetra-Dioxins	25.01	3.391e3	5.332e3	2.774e2	3.689e2	0.75	NO	6.464e2	0.25469	0.25469	0.0518
6	Total Tetra-Dioxins	25.20	5.883e3	6.751e3	4.411e2	4.794e2	0.92	YES	0.000e0	0.00000	0.33432	0.0518
7	Total Tetra-Dioxins	25.36	3.044e3	2.351e3	1.215e2	1.528e2	0.80	NO	2.743e2	0.10808	0.10808	0.0518
8	Total Tetra-Dioxins	25.66	3.720e3	4.408e3	1.367e2	1.747e2	0.78	NO	3.114e2	0.12270	0.12270	0.0518
9	Total Tetra-Dioxins	25.72	4.135e3	3.828e3	2.133e2	2.748e2	0.78	NO	4.882e2	0.19235	0.19235	0.0518
10	Total Tetra-Dioxins	26.08	3.911e3	4.584e3	1.870e2	2.398e2	0.78	NO	4.268e2	0.16818	0.16818	0.0518
11	Total Tetra-Dioxins	26.44	2.100e4	2.868e4	1.310e3	1.808e3	0.72	NO	3.118e3	1.2285	1.2285	0.0518
12	2,3,7,8-TCDD	26.71	9.293e3	3.537e4	4.816e2	2.032e3	0.24	YES	2.513e3	0.00000	0.43619	0.0518
13	Total Tetra-Dioxins	26.99	2.967e3	4.414e3	1.693e2	1.876e2	0.90	YES	0.000e0	0.00000	0.13085	0.0518

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.95	4.140e4	7.477e4	2.649e3	4.745e3	0.56	NO	7.393e3	3.1256	3.1256	0.165
2	Total Penta-Dioxins	29.40	1.785e4	2.956e4	9.071e2	1.570e3	0.58	NO	2.477e3	1.0471	1.0471	0.165
3	Total Penta-Dioxins	29.91	2.686e4	3.599e4	1.160e3	1.880e3	0.62	NO	3.040e3	1.2852	1.2852	0.165
4	Total Penta-Dioxins	30.11	1.861e4	1.721e4	1.228e3	8.883e2	1.38	YES	0.000e0	0.00000	0.61209	0.165
5	Total Penta-Dioxins	30.13	9.720e3	2.857e4	3.356e2	1.382e3	0.24	YES	0.000e0	0.00000	0.36704	0.165
6	Total Penta-Dioxins	30.38	1.664e4	2.668e4	9.961e2	1.544e3	0.65	NO	2.540e3	1.0739	1.0739	0.165
7	Total Penta-Dioxins	30.67	4.824e3	7.981e3	1.840e2	3.626e2	0.51	YES	0.000e0	0.00000	0.20122	0.165
8	1,2,3,7,8-PeCDD	31.14	1.865e4	2.905e4	8.131e2	1.372e3	0.59	NO	2.185e3	0.92359	0.92359	0.165
9	Total Penta-Dioxins	31.21	4.261e3	9.957e3	2.005e2	4.391e2	0.46	YES	0.000e0	0.00000	0.21926	0.165
10	Total Penta-Dioxins	31.47	5.693e3	7.842e3	2.689e2	3.236e2	0.83	YES	0.000e0	0.00000	0.22298	0.165

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.76	1.225e6	1.007e6	5.935e4	4.815e4	1.23	NO	1.075e5	50.855	50.855	0.239
2	Total Hexa-Dioxins	33.39	7.738e4	6.610e4	4.159e3	3.311e3	1.26	NO	7.471e3	3.5341	3.5341	0.239
3	Total Hexa-Dioxins	33.69	5.822e5	4.516e5	3.991e4	3.168e4	1.26	NO	7.159e4	33.865	33.865	0.239
4	Total Hexa-Dioxins	33.78	4.143e4	3.630e4	2.473e3	1.977e3	1.25	NO	4.449e3	2.1049	2.1049	0.239
5	1,2,3,4,7,8-HxCDD	34.49	4.283e4	3.427e4	2.404e3	1.912e3	1.26	NO	4.316e3	2.0081	2.0081	0.229
6	1,2,3,6,7,8-HxCDD	34.60	1.453e5	1.101e5	8.811e3	6.762e3	1.30	NO	1.557e4	7.2496	7.2496	0.237
7	Total Hexa-Dioxins	34.76	2.367e4	2.068e4	1.446e3	1.117e3	1.29	NO	2.563e3	1.2126	1.2126	0.239
8	1,2,3,7,8,9-HxCDD	34.90	7.642e4	6.593e4	4.643e3	3.766e3	1.23	NO	8.409e3	3.7425	3.7425	0.229

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.41	5.809e6	5.671e6	3.394e5	3.348e5	1.01	NO	6.742e5	369.91	369.91	0.770
2	1,2,3,4,6,7,8-HpCDD	38.29	3.744e6	3.583e6	2.078e5	2.010e5	1.03	NO	4.088e5	224.29	224.29	0.770

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Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504, Task: ST210602R1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.17	1.828e3	1.448e3	1.140e2	1.336e2	0.85	NO	2.475e2	0.082491	0.082491	0.0971
2	Total Tetra-Furans	21.77	5.283e3	5.892e3	4.974e2	5.978e2	0.83	NO	1.095e3	0.36496	0.36496	0.0971
3	Total Tetra-Furans	22.51	5.075e4	6.956e4	4.093e3	5.734e3	0.71	NO	9.827e3	3.2748	3.2748	0.0971
4	Total Tetra-Furans	22.85	3.570e3	3.815e3	2.080e2	3.096e2	0.67	NO	5.176e2	0.17249	0.17249	0.0971
5	Total Tetra-Furans	22.95	7.023e3	1.031e4	6.162e2	7.885e2	0.78	NO	1.405e3	0.46810	0.46810	0.0971
6	Total Tetra-Furans	23.01	4.031e3	6.230e3	2.480e2	3.671e2	0.68	NO	0.000e0	0.00000	0.20499	0.0971
7	Total Tetra-Furans	23.34	1.788e4	2.452e4	1.597e3	2.116e3	0.75	NO	3.713e3	1.2372	1.2372	0.0971
8	Total Tetra-Furans	23.74	1.468e4	2.056e4	1.175e3	1.491e3	0.79	NO	2.667e3	0.88864	0.88864	0.0971
9	Total Tetra-Furans	23.84	4.981e3	7.290e3	3.851e2	5.126e2	0.75	NO	8.978e2	0.29917	0.29917	0.0971
10	Total Tetra-Furans	24.05	1.005e4	9.166e3	7.092e2	8.051e2	0.88	NO	1.514e3	0.50465	0.50465	0.0971
11	Total Tetra-Furans	24.43	3.566e3	3.796e3	1.639e2	2.797e2	0.59	YES	0.000e0	0.00000	0.12557	0.0971
12	Total Tetra-Furans	24.51	5.281e3	7.807e3	3.986e2	4.765e2	0.84	NO	8.752e2	0.29165	0.29165	0.0971
13	Total Tetra-Furans	24.76	1.746e4	2.437e4	1.592e3	2.060e3	0.77	NO	3.652e3	1.2170	1.2170	0.0971
14	Total Tetra-Furans	25.16	6.395e4	8.388e4	4.048e3	5.338e3	0.76	NO	9.386e3	3.1280	3.1280	0.0971
15	Total Tetra-Furans	25.45	6.349e3	7.222e3	4.618e2	5.330e2	0.87	NO	9.949e2	0.33154	0.33154	0.0971
16	Total Tetra-Furans	25.84	5.946e3	6.153e3	2.754e2	3.447e2	0.80	NO	6.202e2	0.20666	0.20666	0.0971
17	Total Tetra-Furans	25.96	1.385e4	1.361e4	8.156e2	9.975e2	0.82	NO	1.813e3	0.60420	0.60420	0.0971
18	2,3,7,8-TCDF	26.09	9.044e4	1.132e5	5.447e3	7.006e3	0.78	NO	1.245e4	4.1501	4.1501	0.0971
19	Total Tetra-Furans	26.33	5.088e3	6.010e3	2.550e2	4.004e2	0.64	YES	0.000e0	0.00000	0.19536	0.0971
20	Total Tetra-Furans	26.36	8.142e3	1.486e4	5.428e2	7.623e2	0.71	NO	0.000e0	0.00000	0.43492	0.0971
21	Total Tetra-Furans	27.47	7.754e3	7.805e3	4.730e2	5.374e2	0.88	NO	1.010e3	0.33673	0.33673	0.0971
22	Total Tetra-Furans	27.67	5.508e3	4.471e3	3.607e2	3.099e2	1.16	YES	0.000e0	0.00000	0.18280	0.0971
23	Total Tetra-Furans	27.85	7.718e3	1.143e4	4.314e2	5.978e2	0.72	NO	1.029e3	0.34298	0.34298	0.0971

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.45	2.512e5	1.517e5	1.471e4	9.012e3	1.63	NO	2.372e4	7.2854	7.2854	0.0194

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.00	1.215e5	6.874e4	8.507e3	5.285e3	1.61	NO	1.379e4	4.2365	4.2365	0.212
2	Total Penta-Furans	29.57	4.457e4	2.857e4	2.622e3	1.714e3	1.53	NO	4.336e3	1.3319	1.3319	0.212
3	Total Penta-Furans	29.73	1.824e4	1.449e4	9.515e2	6.787e2	1.40	NO	1.630e3	0.50076	0.50076	0.212
4	1,2,3,7,8-PeCDF	29.94	1.453e5	1.069e5	7.986e3	5.617e3	1.42	NO	1.360e4	4.2279	4.2279	0.224
5	Total Penta-Furans	30.17	5.606e4	3.308e4	3.048e3	1.716e3	1.78	NO	4.764e3	1.4633	1.4633	0.212
6	Total Penta-Furans	30.77	1.173e4	7.705e3	5.065e2	3.545e2	1.43	NO	8.609e2	0.26445	0.26445	0.212
7	2,3,4,7,8-PeCDF	30.97	9.643e4	6.562e4	5.762e3	3.982e3	1.45	NO	9.744e3	2.6973	2.6973	0.182
8	Total Penta-Furans	31.77	9.978e3	6.378e3	3.941e2	2.553e2	1.54	NO	6.495e2	0.19950	0.19950	0.212
9	Total Penta-Furans	31.84	6.908e3	4.259e3	3.205e2	1.835e2	1.75	NO	5.040e2	0.15482	0.15482	0.212

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.23	9.141e4	8.452e4	4.630e3	4.025e3	1.15	NO	8.656e3	3.2640	3.2640	0.104
2	Total Hexa-Furans	32.40	3.064e5	2.453e5	1.444e4	1.196e4	1.21	NO	2.640e4	9.9553	9.9553	0.104
3	Total Hexa-Furans	32.82	1.038e4	8.077e3	4.751e2	3.621e2	1.31	NO	8.371e2	0.31568	0.31568	0.104
4	Total Hexa-Furans	33.05	3.982e5	3.069e5	2.035e4	1.625e4	1.25	NO	3.660e4	13.801	13.801	0.104
5	Total Hexa-Furans	33.41	9.049e3	8.371e3	4.843e2	4.162e2	1.16	NO	9.005e2	0.33956	0.33956	0.104
6	1,2,3,4,7,8-HxCDF	33.54	1.962e5	1.569e5	1.054e4	8.479e3	1.24	NO	1.901e4	7.0982	7.0982	0.0985
7	1,2,3,6,7,8-HxCDF	33.68	7.612e4	5.935e4	3.969e3	3.302e3	1.20	NO	7.271e3	2.6851	2.6851	0.0940
8	2,3,4,6,7,8-HxCDF	34.39	3.383e4	2.711e4	2.261e3	1.908e3	1.19	NO	4.169e3	1.5833	1.5833	0.102
9	1,2,3,7,8,9-HxCDF	35.48	1.929e4	1.612e4	1.100e3	8.920e2	1.23	NO	1.992e3	0.88508	0.88508	0.138
10	Total Hexa-Furans	35.50	1.228e4	1.135e4	2.665e2	2.032e2	1.31	NO	4.697e2	0.17714	0.17714	0.104

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.08	3.481e5	3.450e5	2.192e4	2.193e4	1.00	NO	4.384e4	20.858	20.858	0.149
2	Total Hepta-Furans	37.50	9.172e3	8.721e3	5.098e2	5.151e2	0.99	NO	1.025e3	0.51907	0.51907	0.154
3	Total Hepta-Furans	37.71	7.137e5	7.227e5	3.844e4	3.772e4	1.02	NO	7.616e4	38.570	38.570	0.154
4	1,2,3,4,7,8,9-HpCDF	38.95	3.742e4	3.529e4	2.208e3	2.227e3	0.99	NO	4.435e3	2.4073	2.4073	0.159

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_12.qld

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DF06/11/21

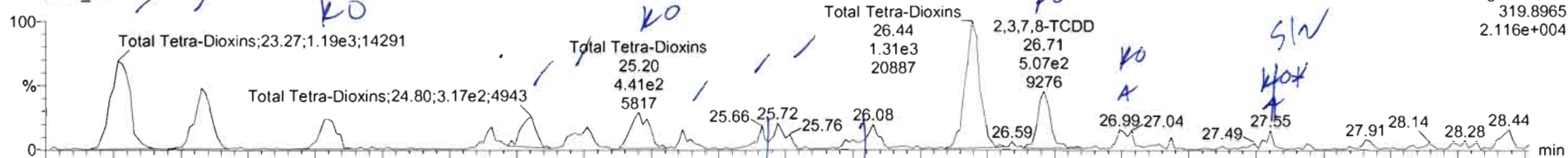
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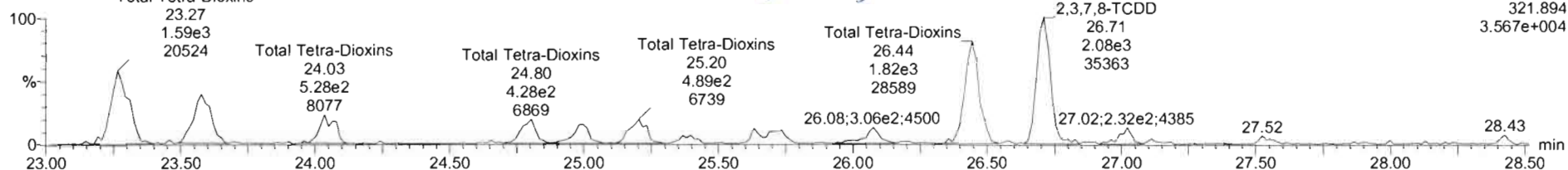
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2,3,7,8-TCDD

210602R1_12

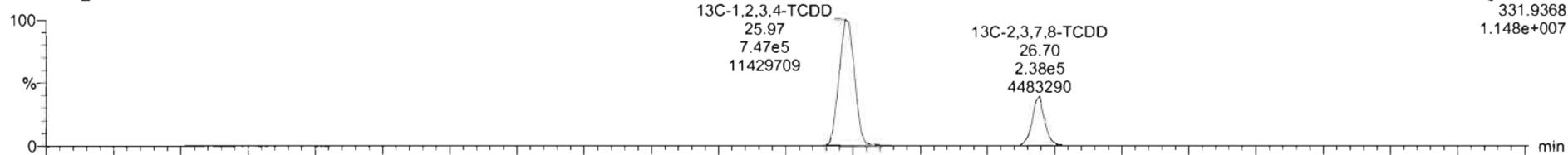


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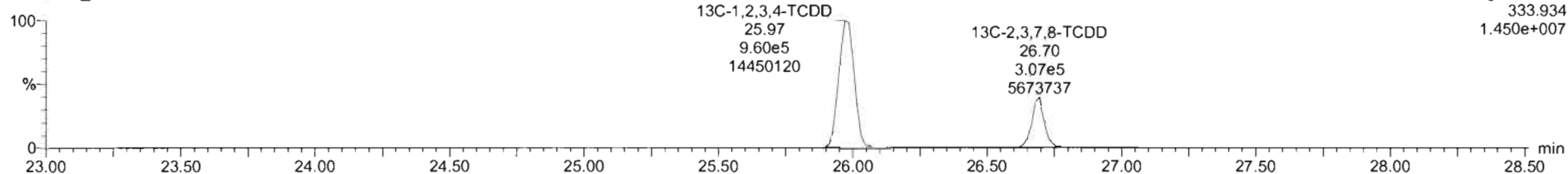


13C-2,3,7,8-TCDD

210602R1_12



210602R1_12



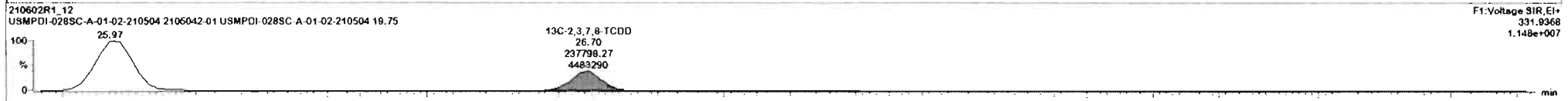
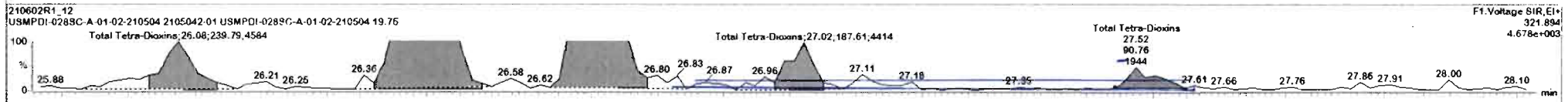
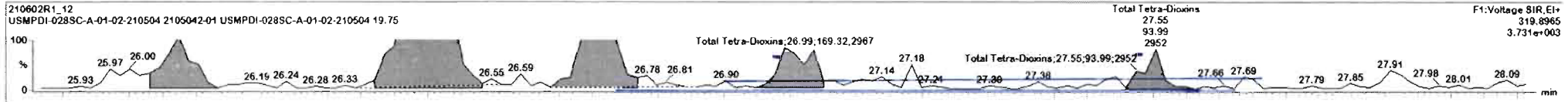
Name	Resid	RA	nly	RRF	wt%val	RT	RRT	Conc	%Rec	DL	EMPC
35 Total Tetra-Dioxins				0.63	10.023			3.99	0.0518	5.05	
40 Total Penta-Dioxins				0.63	10.023			7.46	0.165	6.08	
41 Total Hexa-Dioxins				0.68	10.023			105	0.239	105	
42 Total Hepta-Dioxins				0.90	10.023			594	0.770	594	
43 Total Tetra-Furans				0.75	10.023			17.8	0.0971	19.0	
44 1st Func Penta-Furans				0.66	10.023			7.29	0.2194	7.29	
45 Total Penta-Furans				0.68	10.023			15.1	0.212	15.1	
46 Total Hexa-Furans				0.97	10.023			39.9	0.104	39.9	
47 Total Hepta-Furans				1.05	10.023			62.4	0.154	62.4	
48 PFK1											
49 DMCP											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 2,3,7,8-TCDD	26.71	4.816e2	2.032e3	0.24	YES	0.43600	0.00000
2 Total Tetra-Dioxins	26.44	1.310e3	1.808e3	0.73	NO	1.2280	1.2285
3 Total Tetra-Dioxins	25.20	4.411e2	4.794e2	0.92	YES	0.33400	0.00000
4 Total Tetra-Dioxins	24.80	3.195e2	3.994e2	0.80	NO	0.28300	0.28329
5 Total Tetra-Dioxins	24.03	3.398e2	5.216e2	0.65	YES	0.30800	0.00000
6 Total Tetra-Dioxins	23.58	7.215e2	1.058e3	0.68	NO	0.70100	0.70107
7 Total Tetra-Dioxins	23.27	1.191e3	1.585e3	0.76	NO	1.0860	1.0860
8 Total Tetra-Dioxins	25.72	2.132e2	2.748e2	0.78	NO	0.19200	0.19235
9 Total Tetra-Dioxins	25.96	1.267e2	1.747e2	0.78	NO	0.12300	0.12270



Name	Resp	RA	nly	RRF	wlevel	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.63	10.023			4.14	0.0518	5.42	
40 Total Penta-Dioxins				0.83	10.023			7.46	0.165	9.08	
41 Total Hexa-Dioxins				0.88	10.023			105	0.239	105	
42 Total Hepta-Dioxins				0.90	10.023			594	0.770	594	
43 Total Tetra-Furans				0.75	10.023			17.8	0.0971	19.0	
44 1st Func. Penta-Furans				0.88	10.023			7.29	0.0164	7.29	
45 Total Penta-Furans				0.88	10.023			15.1	0.212	15.1	
46 Total Hexa-Furans				0.97	10.023			39.9	0.104	39.9	
47 Total Hepta-Furans				1.05	10.023			62.4	0.154	62.4	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
6 Total Tetra-Dioxins	25.29	4.411e2	4.794e2	0.92	YES	0.33472	0.00000
7 Total Tetra-Dioxins	25.36	1.215e2	1.528e2	0.80	NO	0.10808	0.10808
8 Total Tetra-Dioxins	25.66	1.367e2	1.747e2	0.78	NO	0.12270	0.12270
9 Total Tetra-Dioxins	25.72	2.132e2	2.748e2	0.78	NO	0.19235	0.19235
10 Total Tetra-Dioxins	26.08	1.870e2	2.398e2	0.78	NO	0.16818	0.16818
11 Total Tetra-Dioxins	26.44	1.310e2	1.808e2	0.72	NO	1.2285	1.2285
12 2,3,7,8-TCDD	26.71	4.816e2	2.032e2	0.24	YES	0.43619	0.00000
13 Total Tetra-Dioxins	26.99	1.693e2	1.876e2	0.90	YES	0.13085	0.00000
14 Total Tetra-Dioxins	27.55	9.396e1	9.076e1	1.04	YES	0.083299	0.00000



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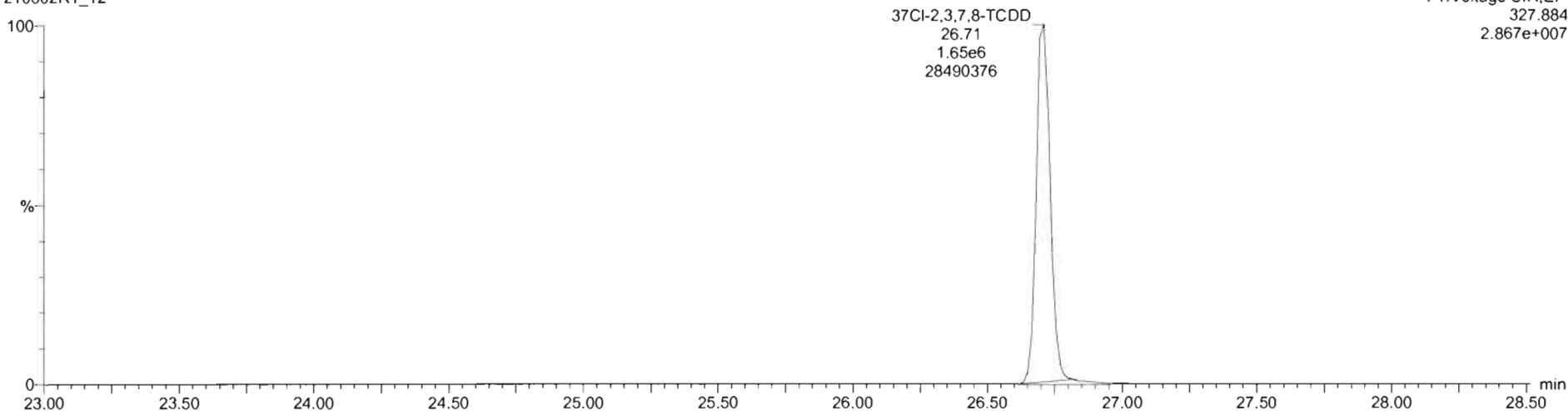
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Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504

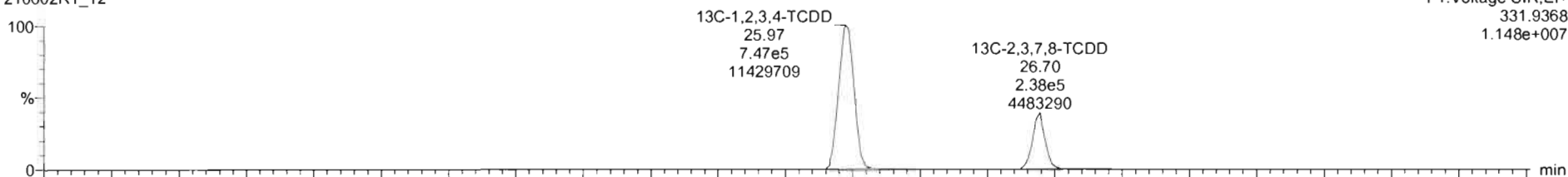
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210602R1_12

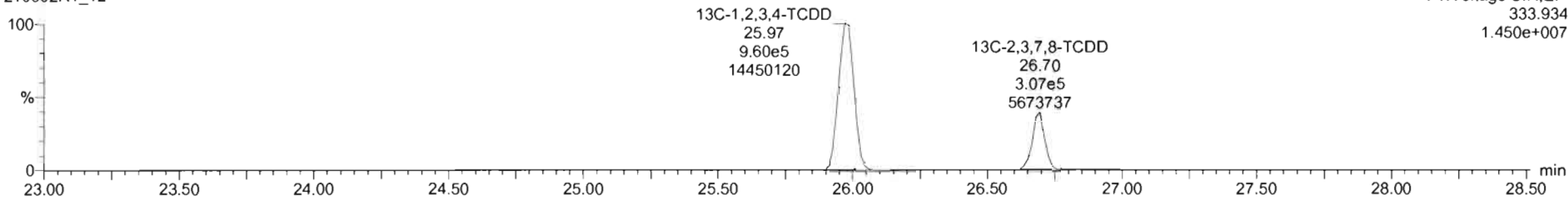


13C-1,2,3,4-TCDD

210602R1_12



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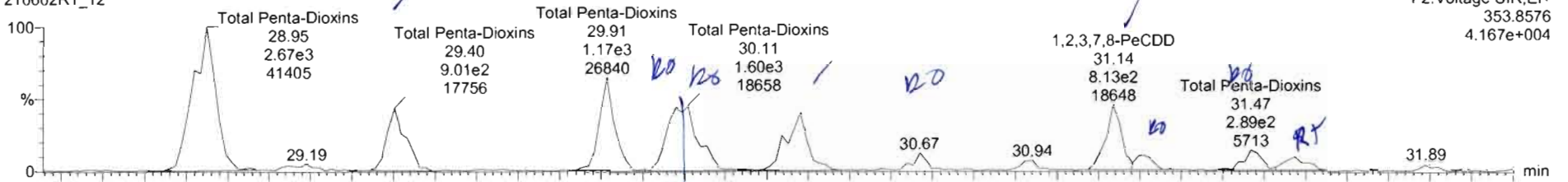
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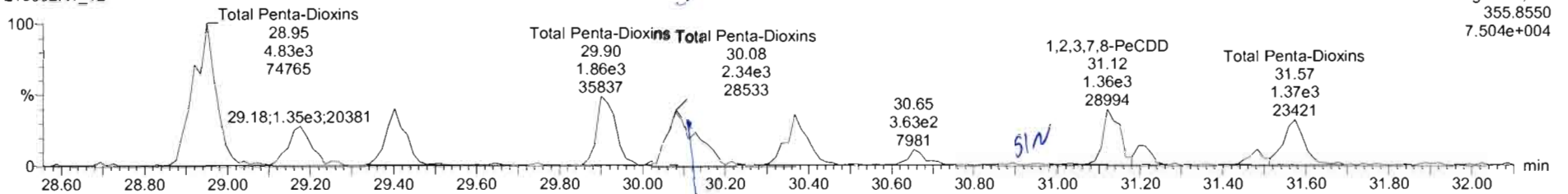
1,2,3,7,8-PeCDD

210602R1_12



F2:Voltage SIR,EI+
353.8576
4.167e+004

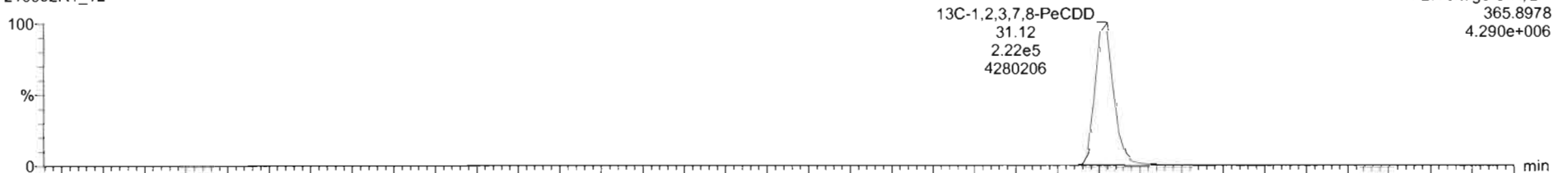
210602R1_12



F2:Voltage SIR,EI+
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7.504e+004

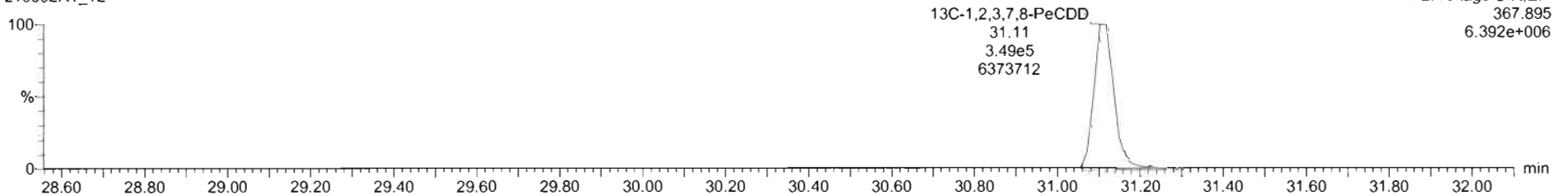
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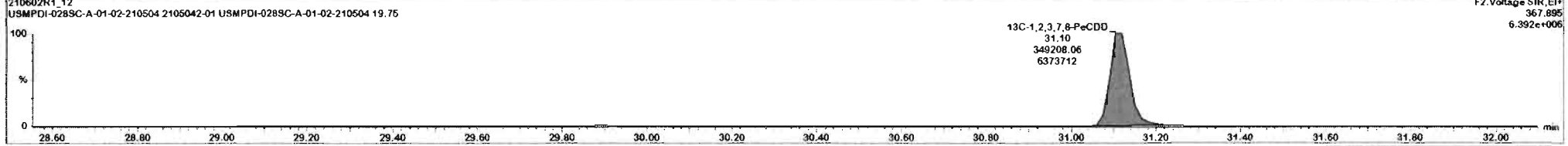
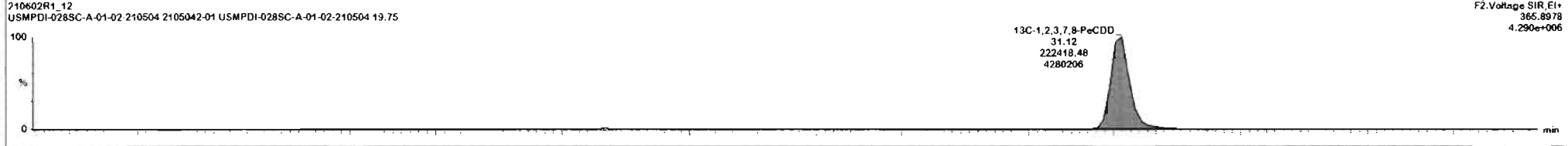
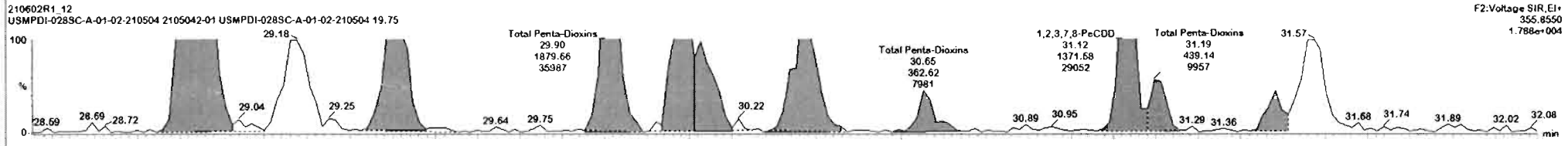
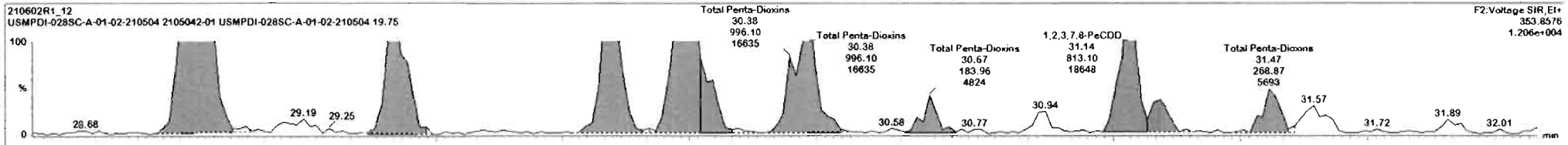
F2:Voltage SIR,EI+
365.8978
4.290e+006

210602R1_12



F2:Voltage SIR,EI+
367.895
6.392e+006

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.95	2.849e7	4.745e3	0.56	NO	3.1258	0.1258
2 Total Penta-Dioxins	29.40	9.071e2	1.570e3	0.56	NO	1.0471	1.0471
3 Total Penta-Dioxins	29.91	1.160e3	1.800e3	0.62	NO	1.2852	1.2852
4 Total Penta-Dioxins	30.11	1.228e3	8.863e2	1.38	YES	0.81209	0.00000
5 Total Penta-Dioxins	30.13	3.356e2	1.362e3	0.24	YES	0.58704	0.00000
6 Total Penta-Dioxins	30.38	9.961e2	1.544e3	0.65	NO	1.0739	1.0739
7 Total Penta-Dioxins	30.67	1.840e2	3.626e2	0.51	YES	0.20122	0.00000
8 1,2,3,7,8-PeCDD	31.14	8.131e2	1.372e3	0.59	NO	0.92359	0.92359
9 Total Penta-Dioxins	31.21	2.605e2	4.391e2	0.46	YES	0.21926	0.00000



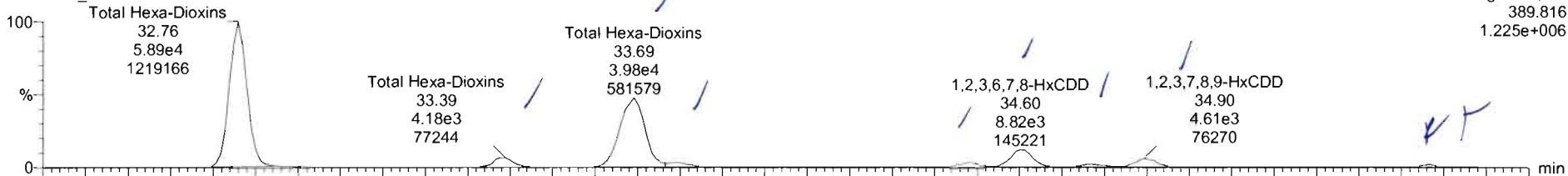
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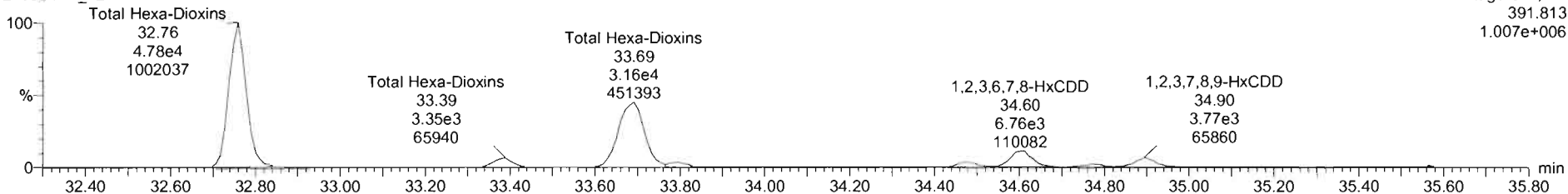
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1,2,3,4,7,8-HxCDD

210602R1_12

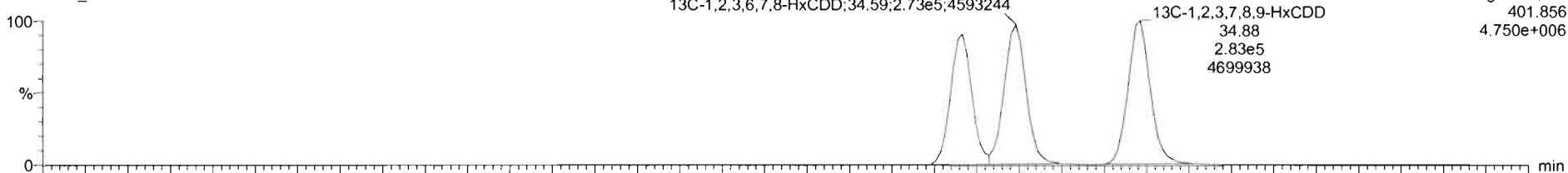


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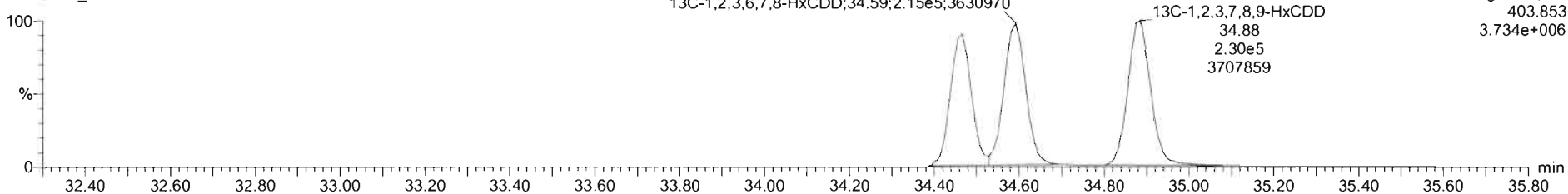


13C-1,2,3,4,7,8-HxCDD

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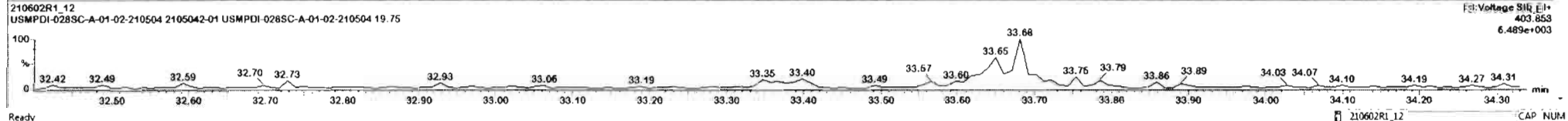
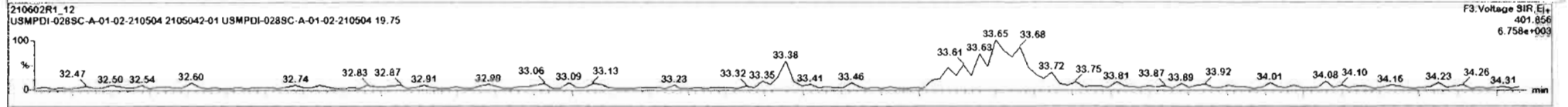
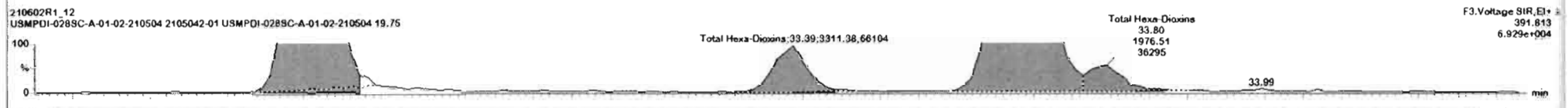
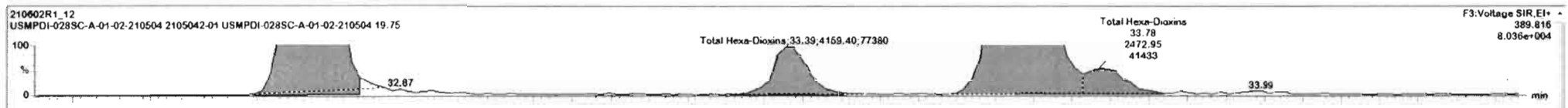


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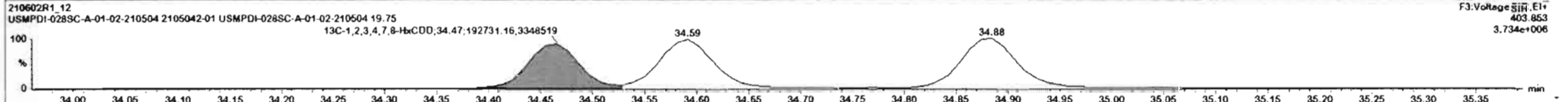
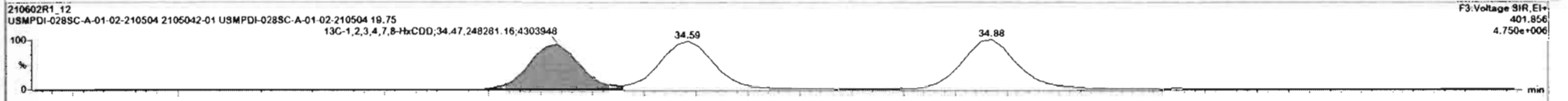
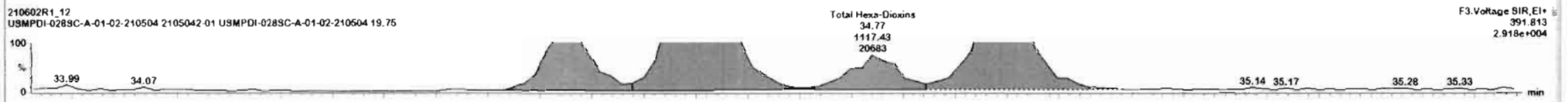
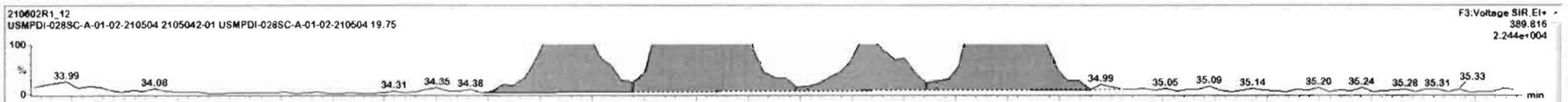
Name	Resp	RA	rvy	RRF	wfvol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.93	10.023			4.14	0.2510	5.35	
40 Total Penta-Dioxins				0.83	10.023			7.46	0.165	9.08	
41 Total Hexa-Dioxins				0.88	10.023			105	0.239	165	
42 Total Hepta-Dioxins				0.90	10.023			594	0.770	594	
43 Total Tetra-Furans				0.75	10.023			17.8	0.0971	15.8	
44 1st Func. Penta-Furans				0.88	10.023			7.29	0.0194	7.29	
45 Total Penta-Furans				0.88	10.023			15.1	0.212	15.1	
46 Total Hexa-Furans				0.97	10.023			39.9	0.104	39.9	
47 Total Hepta-Furans				1.05	10.023			62.4	0.154	62.4	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Hexa-Dioxins	32.76	5.935e4	4.815e4	1.23	NO	50.855	50.255
2 Total Hexa-Dioxins	33.39	4.159e2	3.311e3	1.26	NO	3.5341	3.5341
3 Total Hexa-Dioxins	33.89	3.961e4	3.188e4	1.26	NO	33.885	33.885
4 Total Hexa-Dioxins	33.78	2.473e3	1.977e3	1.25	NO	2.1049	2.1049
5 1,2,3,4,7,8-HxCDD	34.49	2.404e3	1.912e3	1.26	NO	2.0081	2.0081
6 1,2,3,6,7,8-HxCDD	34.60	8.811e3	6.782e3	1.30	NO	7.2496	7.2496
7 Total Hexa-Dioxins	34.76	1.446e3	1.117e3	1.25	NO	1.2125	1.2125
8 1,2,3,7,8,9-HxCDD	34.90	4.642e3	3.786e3	1.23	NO	3.7425	3.7425



#	Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.93	10.023			4.14	0.0018		5.38
40	Total Penta-Dioxins				0.83	10.023			7.46	0.165		9.08
41	Total Hexa-Dioxins				0.68	10.023			105	0.239		108
42	Total Hepta-Dioxins				0.90	10.023			594	0.770		594
43	Total Tetra-Furans				0.75	10.023			17.6	0.0971		19.0
44	1st Func. Penta-Furans				0.88	10.023			7.29	0.0194		7.39
45	Total Penta-Furans				0.88	10.023			15.1	0.212		15.1
46	Total Hexa-Furans				0.97	10.023			39.9	0.104		39.9
47	Total Hepta-Furans				1.05	10.023			62.4	0.154		62.4
48	PK1											
49	PK2											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Hexa-Dioxins	32.76	5.935e4	4.815e4	1.23	NO	50.855	50.855
2	Total Hexa-Dioxins	33.39	4.159e3	3.311e3	1.26	NO	3.5341	3.5341
3	Total Hexa-Dioxins	33.89	3.991e4	3.168e4	1.26	NO	33.885	33.885
4	Total Hexa-Dioxins	33.78	2.473e3	1.977e3	1.25	NO	2.1049	2.1049
5	1,2,3,4,7,8-HxCDD	34.46	2.404e3	1.912e3	1.26	NO	2.0081	2.0081
6	1,2,3,6,7,8-HxCDD	34.60	8.811e3	6.762e3	1.30	NO	7.2496	7.2496
7	Total Hexa-Dioxins	34.76	1.448e3	1.117e3	1.29	NO	1.2128	1.2128
8	1,2,3,7,8,9-HxCDD	34.90	4.643e3	3.766e3	1.23	NO	3.7425	3.7425



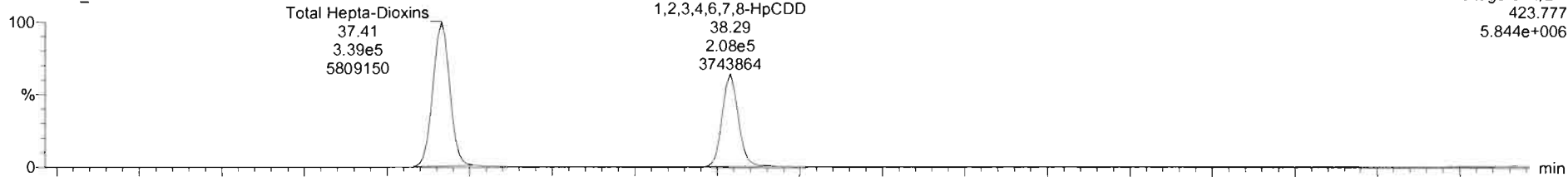
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Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504

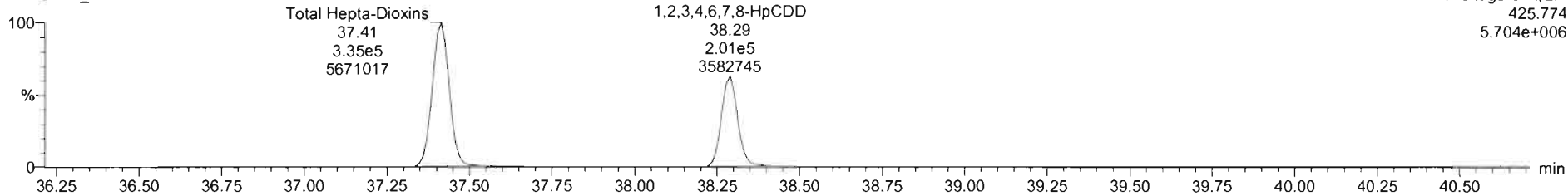
1,2,3,4,6,7,8-HpCDD

210602R1_12



F4:Voltage SIR,EI+
423.777
5.844e+006

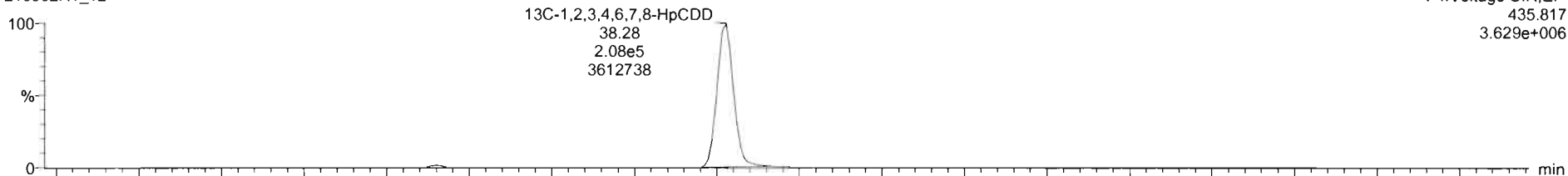
210602R1_12



F4:Voltage SIR,EI+
425.774
5.704e+006

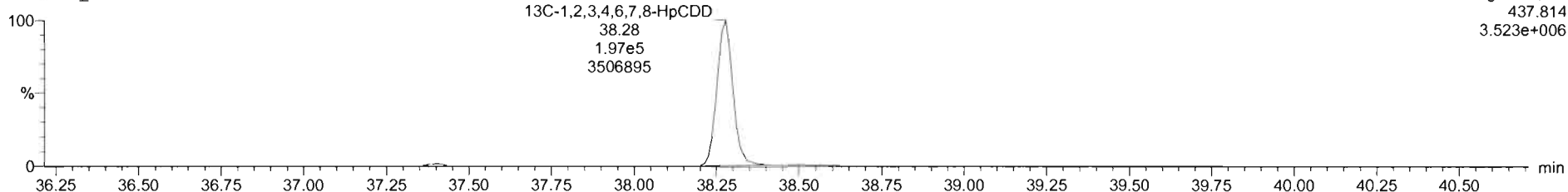
13C-1,2,3,4,6,7,8-HpCDD

210602R1_12



F4:Voltage SIR,EI+
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3.629e+006

210602R1_12



F4:Voltage SIR,EI+
437.814
3.523e+006

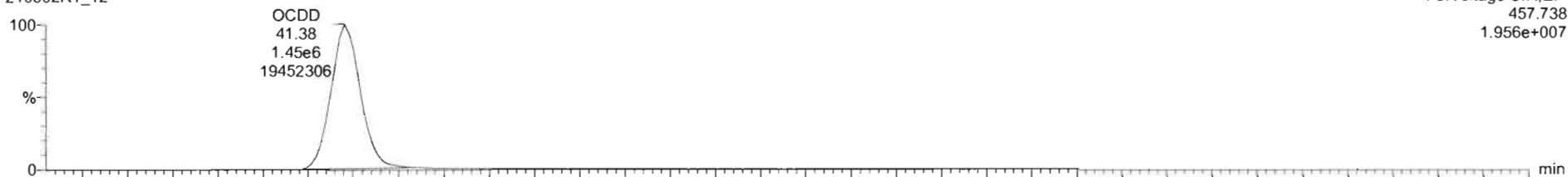
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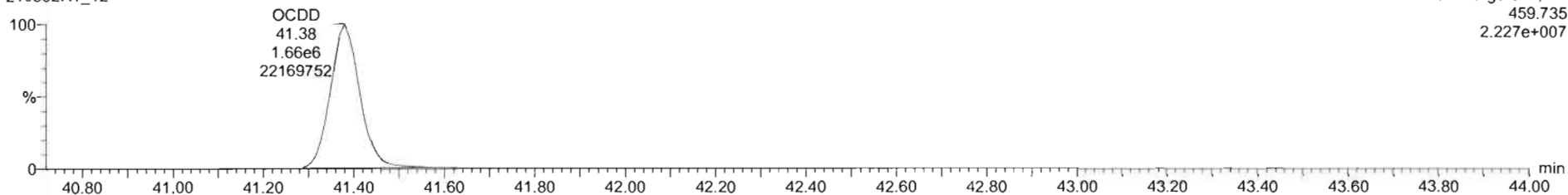
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OCDD

210602R1_12



210602R1_12

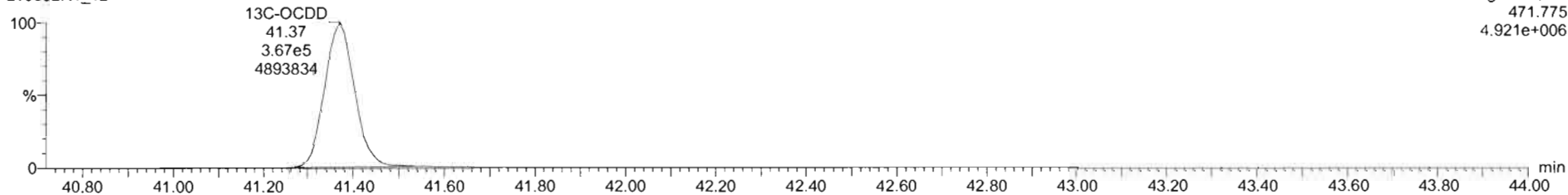


13C-OCDD

210602R1_12



210602R1_12



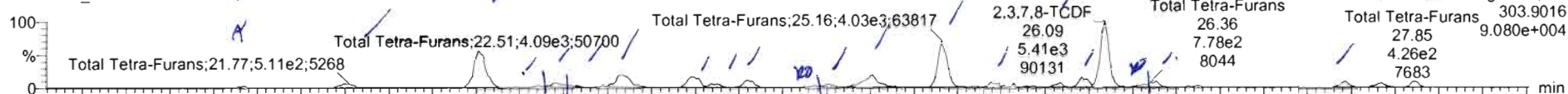
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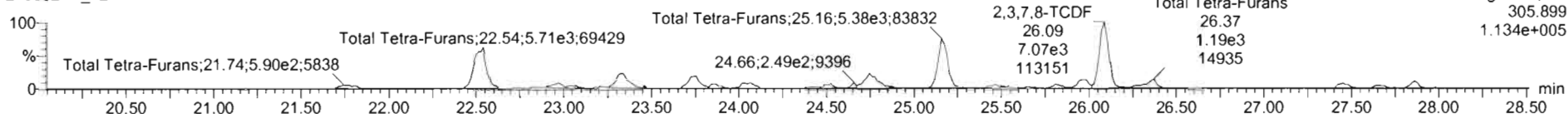
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2,3,7,8-TCDF

210602R1_12

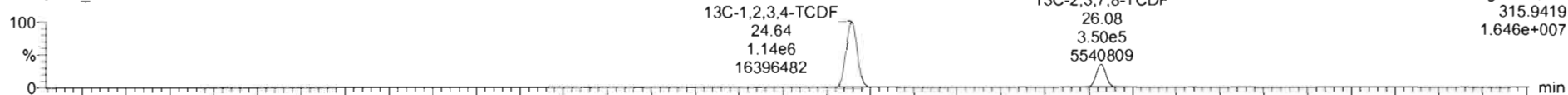


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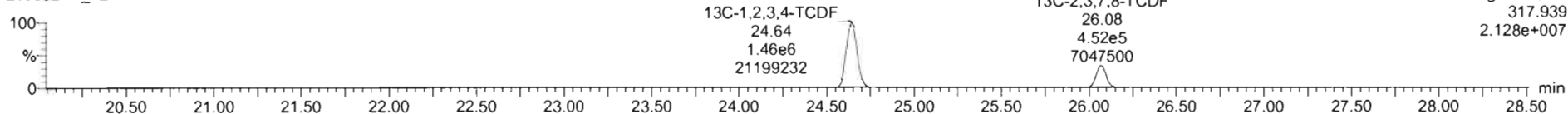


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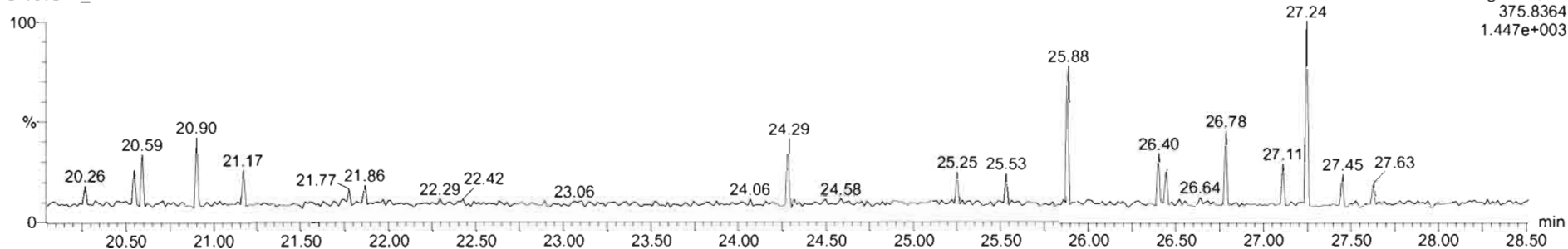


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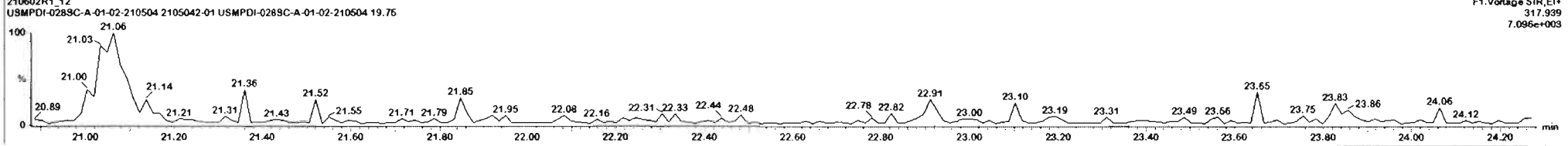
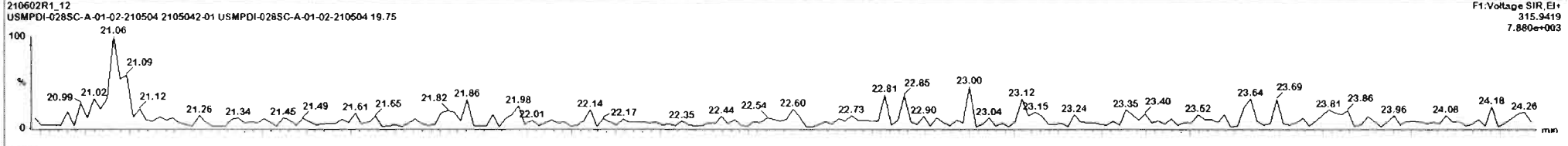
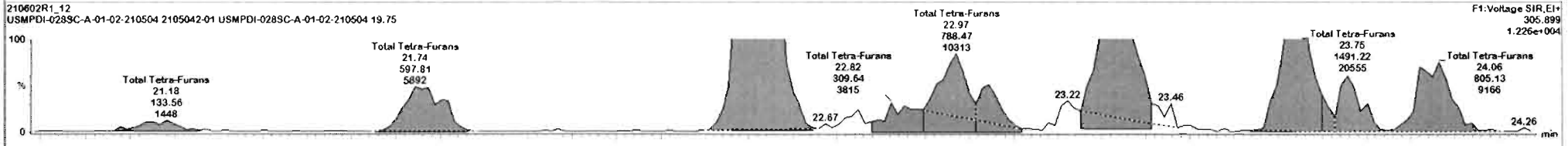
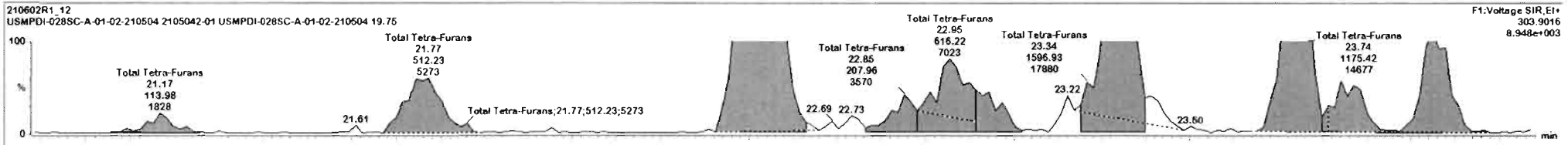


DPE1

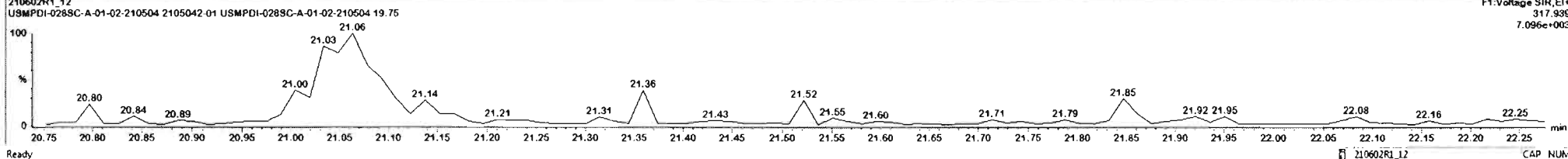
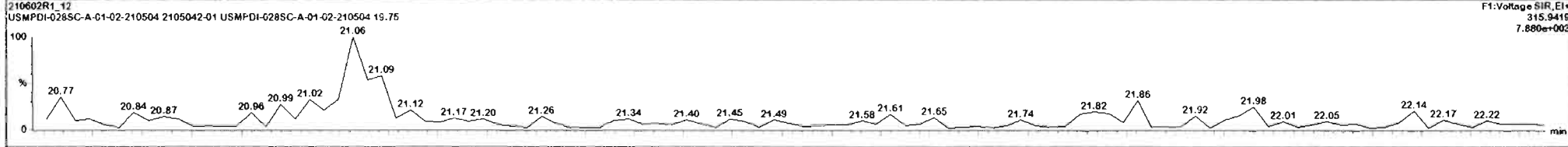
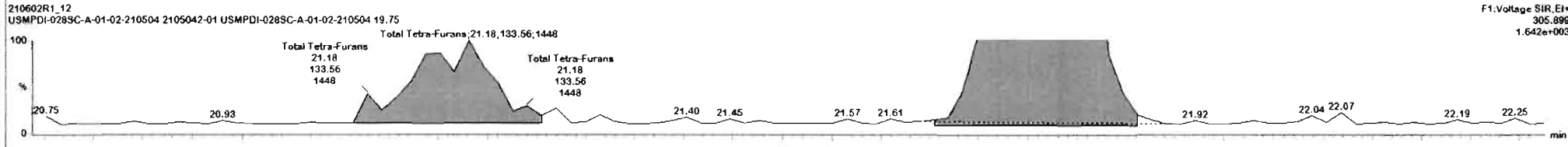
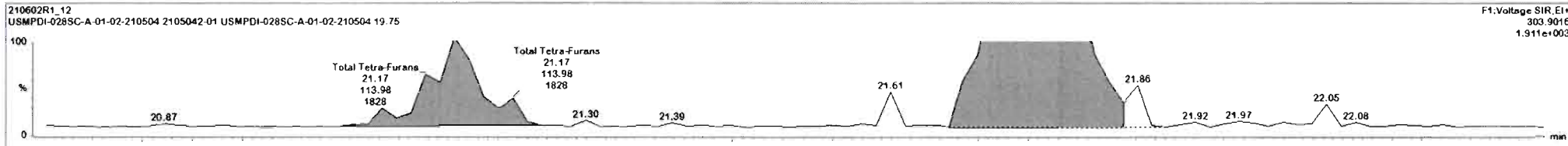
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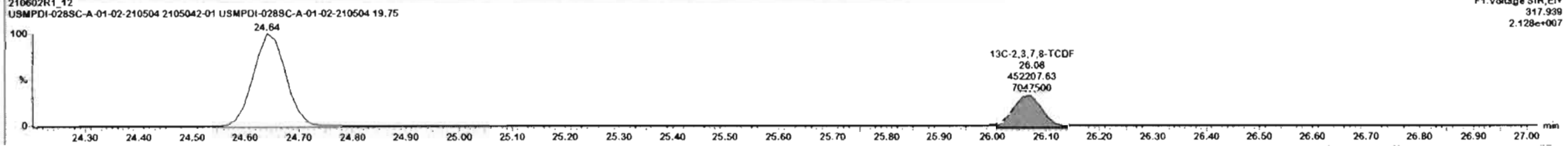
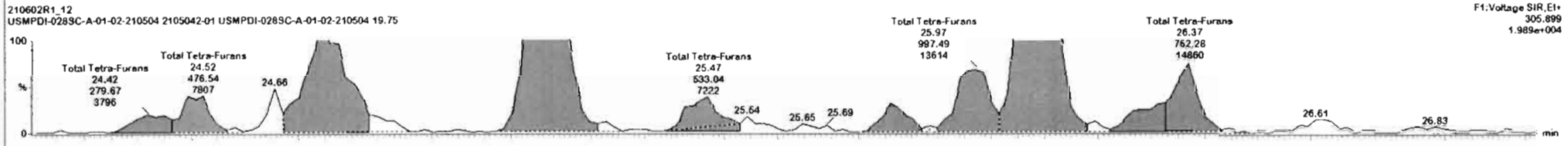
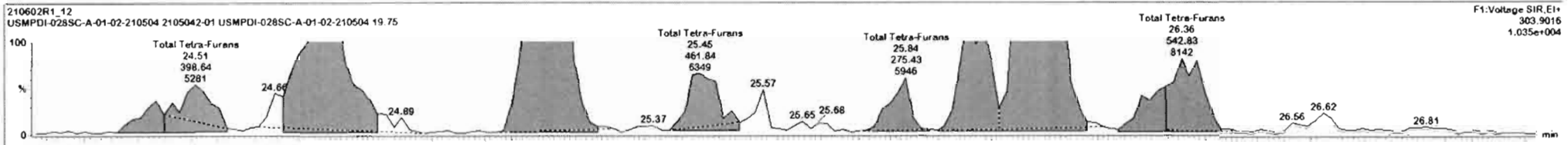
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
Total Tetra-Furans	21.17	1.140e2	1.336e2	0.85	NO	0.082491	0.082491
Total Tetra-Furans	21.77	5.122e2	5.978e2	0.86	NO	0.36991	0.36991
Total Tetra-Furans	22.51	4.093e2	5.734e2	0.71	NO	3.2748	3.2748
Total Tetra-Furans	22.85	2.080e2	3.096e2	0.67	NO	0.17249	0.17249
Total Tetra-Furans	23.95	8.162e2	7.865e2	0.78	NO	0.46810	0.46810
Total Tetra-Furans	23.01	2.480e2	3.671e2	0.68	NO	0.20499	0.00000
Total Tetra-Furans	23.34	1.597e2	2.116e2	0.75	NO	1.2372	1.2372
Total Tetra-Furans	23.74	1.175e2	1.491e2	0.79	NO	0.68864	0.68864
Total Tetra-Furans	23.84	3.851e2	5.126e2	0.75	NO	0.29917	0.29917



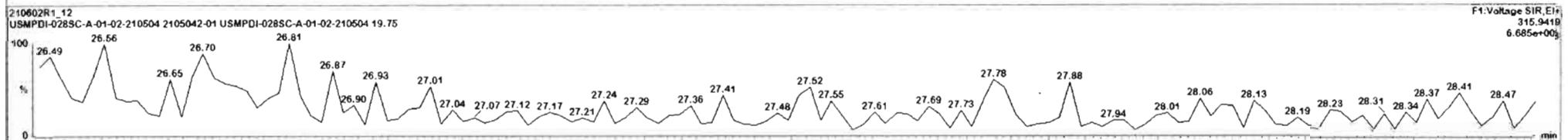
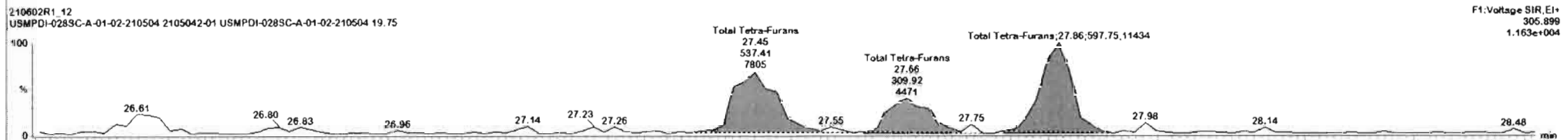
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	21.17	1.140e2	1.336e2	0.85	NO	0.082491	0.082491
2 Total Tetra-Furans	21.77	4.974e2	5.978e2	0.83	NO	0.35496	0.35496
3 Total Tetra-Furans	22.51	4.091e2	5.734e2	0.71	NO	3.2748	3.2748
4 Total Tetra-Furans	22.85	2.050e2	3.096e2	0.67	NO	0.17249	0.17249
5 Total Tetra-Furans	22.95	6.162e2	7.685e2	0.78	NO	0.46810	0.46810
6 Total Tetra-Furans	23.01	2.480e2	3.871e2	0.68	NO	0.20499	0.00000
7 Total Tetra-Furans	23.34	1.697e2	2.116e2	0.75	NO	1.2372	1.2372
8 Total Tetra-Furans	23.74	1.175e2	1.491e2	0.79	NO	0.88864	0.88864
9 Total Tetra-Furans	23.84	3.851e2	5.126e2	0.75	NO	0.29917	0.29917



Name	RT	m1 Resp	m2 Resp	RA	nlv	EMPC	Conc.
Total Tetra-Furans	21.17	1.142e2	1.336e2	0.85	NO	0.002491	0.082491
Total Tetra-Furans	21.77	5.122e2	5.678e2	0.86	NO	0.36991	0.36991
Total Tetra-Furans	22.51	4.093e1	5.734e2	0.71	NO	3.2748	3.2748
Total Tetra-Furans	22.85	2.085e2	3.096e2	0.67	NO	0.17249	0.17249
Total Tetra-Furans	22.95	6.162e2	7.865e2	0.78	NO	0.46810	0.46810
Total Tetra-Furans	23.01	2.485e2	3.671e2	0.68	NO	0.28496	0.00000
Total Tetra-Furans	23.34	1.597e3	2.116e3	0.75	NO	1.2372	1.2372
Total Tetra-Furans	23.74	1.175e2	1.491e2	0.79	NO	0.88864	0.86864
Total Tetra-Furans	23.84	3.851e2	5.126e2	0.75	NO	0.29917	0.29917



Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
Total Tetra-Furans	21.17	1.140e2	1.336e2	0.85	NO	0.082491	0.082451
Total Tetra-Furans	21.77	5.122e2	5.978e2	0.86	NO	0.36991	0.36991
Total Tetra-Furans	22.51	4.093e3	5.734e3	0.71	NO	3.2745	3.2748
Total Tetra-Furans	22.55	2.080e2	3.096e2	0.67	NO	0.17246	0.17249
Total Tetra-Furans	22.95	6.162e2	7.685e2	0.78	NO	0.46810	0.46810
Total Tetra-Furans	23.01	2.485e2	3.671e2	0.68	NO	0.20499	0.00006
Total Tetra-Furans	23.34	1.597e2	2.116e2	0.75	NO	1.2372	1.2372
Total Tetra-Furans	23.74	1.175e2	1.491e2	0.79	NO	0.88864	0.88864
Total Tetra-Furans	22.84	3.851e2	5.126e2	0.75	NO	0.29917	0.29917



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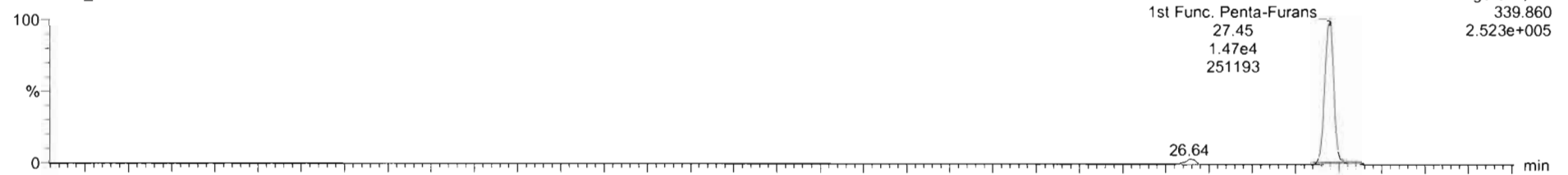
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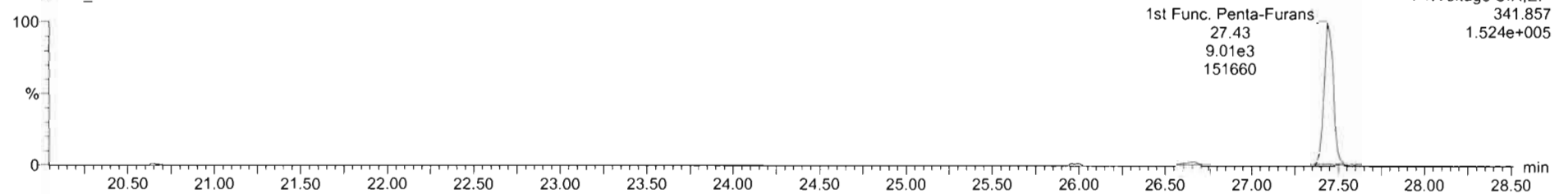
Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504

1st Func. Penta-Furans

210602R1_12

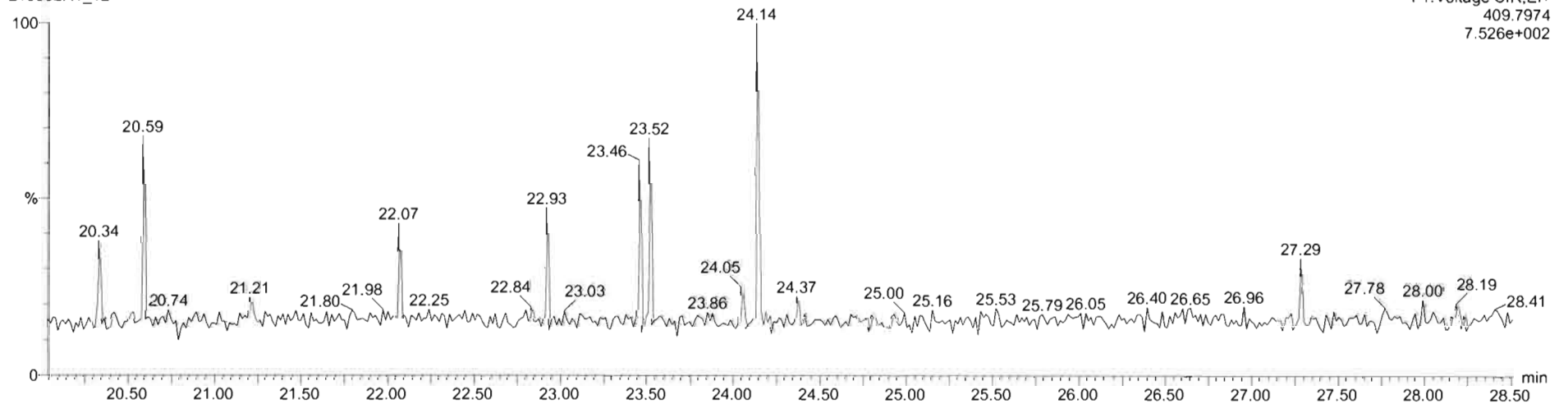


210602R1_12



DPE6

210602R1_12



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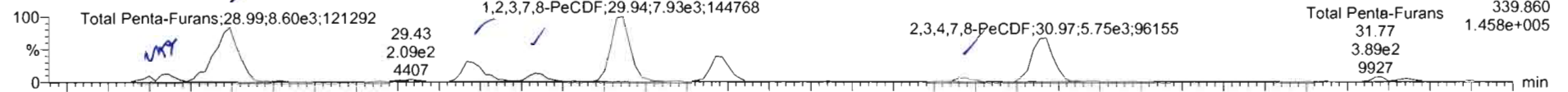
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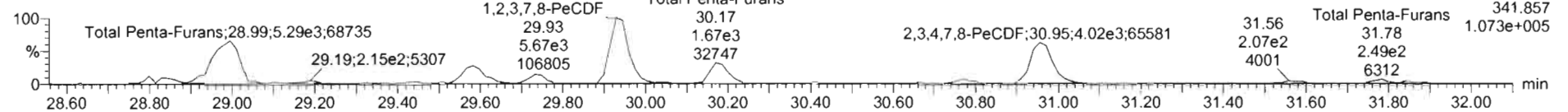
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1,2,3,7,8-PeCDF

210602R1_12

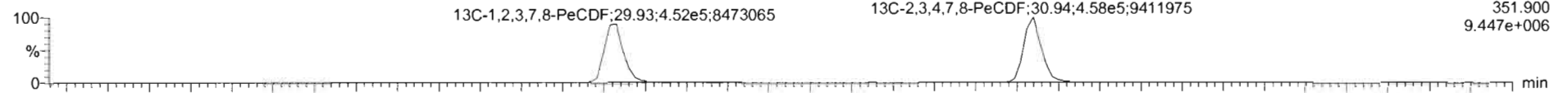


210602R1_12

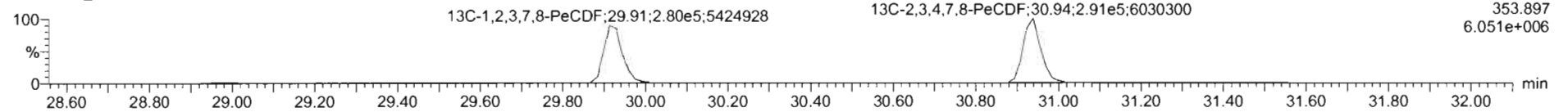


13C-1,2,3,7,8-PeCDF

210602R1_12

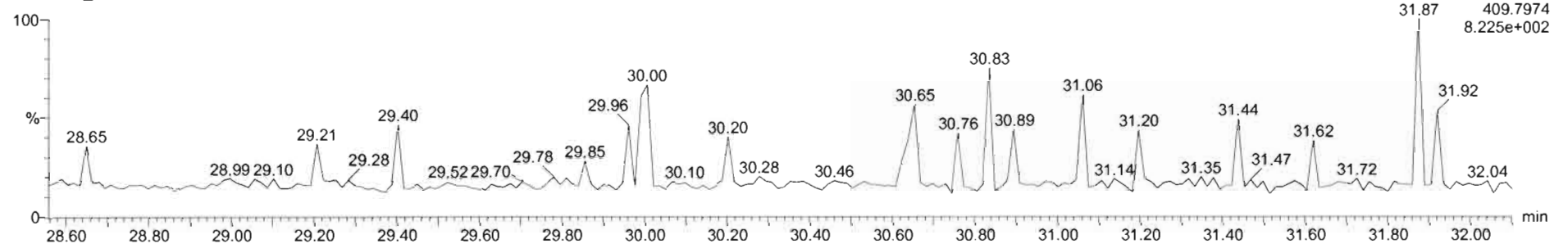


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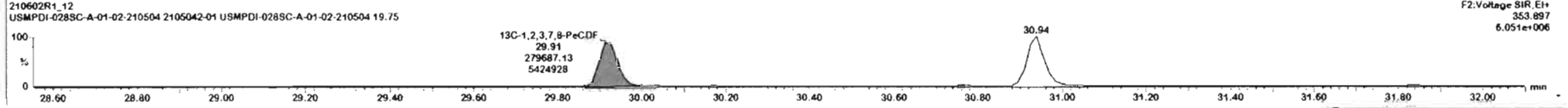
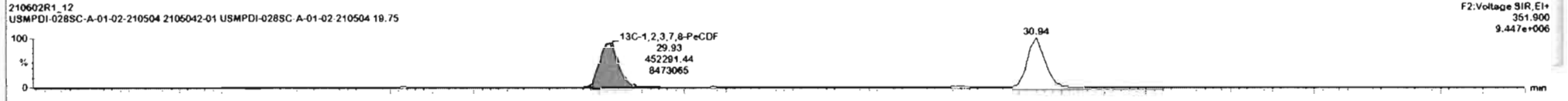
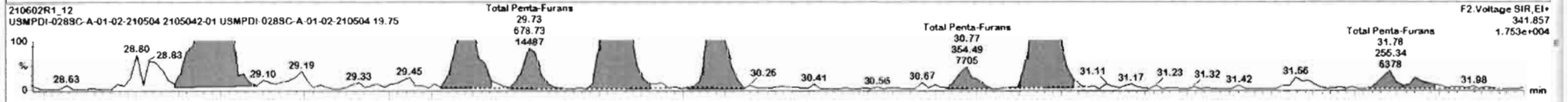
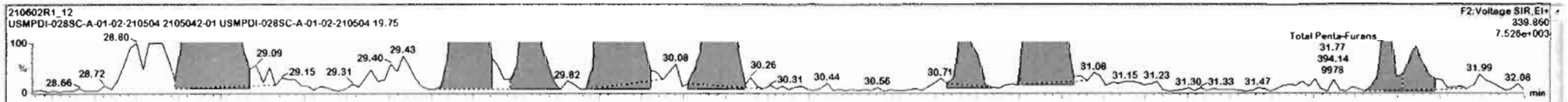
DPE2

210602R1_12



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	10.023			17.9	0.0971	19.0	
44 1st Func. Penta-Furans				0.88	10.023			7.29	0.0194	7.29	
45 Total Penta-Furans				0.88	10.023			15.1	0.212	15.1	
46 Total Hexa-Furans				0.97	10.023			39.9	0.104	39.9	
47 Total Hepta-Furans				1.05	10.023			62.4	0.154	62.4	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
61 npe1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	29.00	8.507e3	5.285e3	1.81	NO	4.2365	4.2365
2 Total Penta-Furans	29.57	2.822e3	1.714e3	1.53	NO	1.3319	1.3319
3 Total Penta-Furans	29.73	9.515e2	6.787e2	1.40	NO	0.50076	0.50076
4 1,2,3,7,8-PeCDF	29.94	7.986e3	5.617e3	1.42	NO	4.2279	4.2279
5 Total Penta-Furans	30.17	3.048e3	1.716e3	1.78	NO	1.4633	1.4633
6 Total Penta-Furans	30.77	5.065e2	3.545e2	1.43	NO	0.28445	0.28445
7 2,3,4,7,8-PeCDF	30.97	5.762e3	3.862e3	1.45	NO	2.8973	2.8973
8 Total Penta-Furans	31.77	3.941e2	2.553e2	1.54	NO	0.19950	0.19950
9 Total Penta-Furans	31.84	3.205e2	1.835e2	1.75	NO	0.15482	0.15482

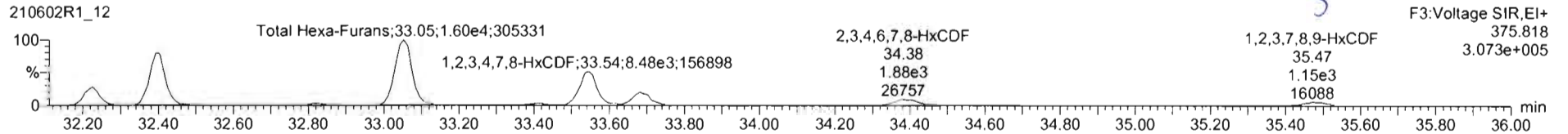
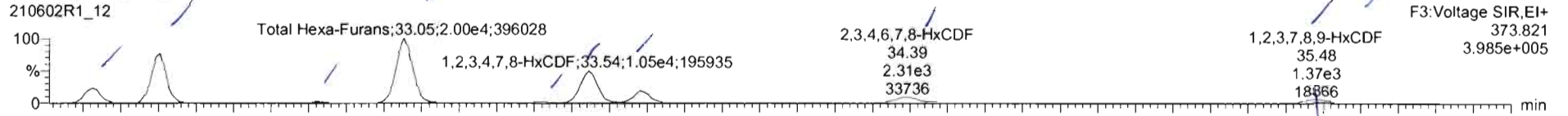


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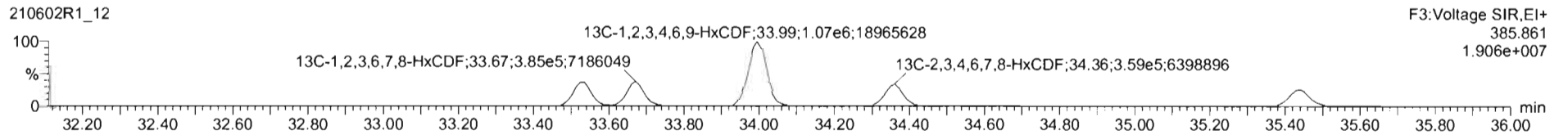
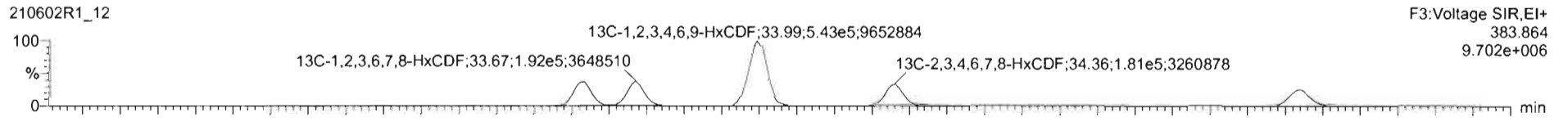
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Printed: Thursday, June 03, 2021 14:53:49 Pacific Daylight Time

Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504

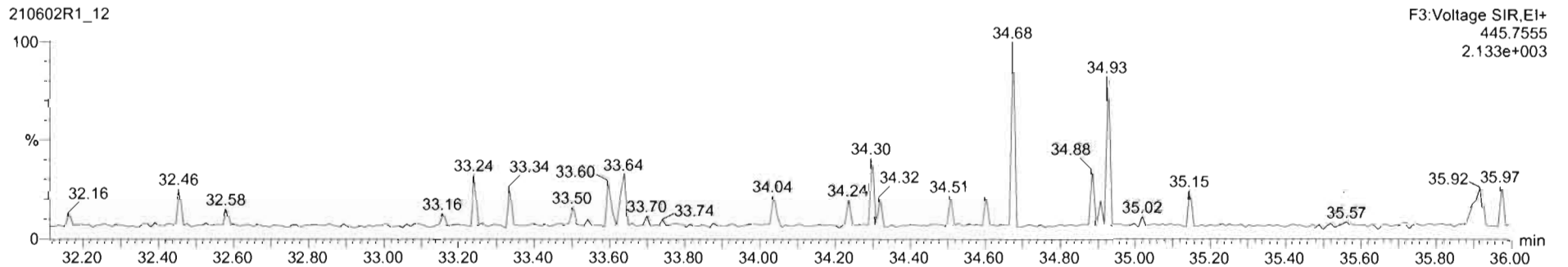
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF

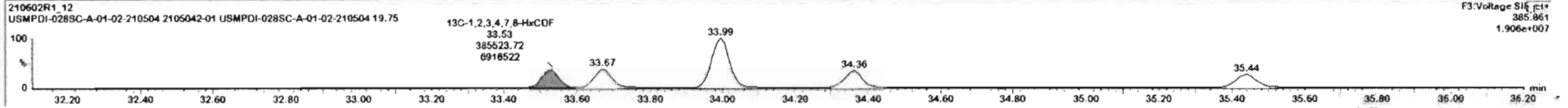
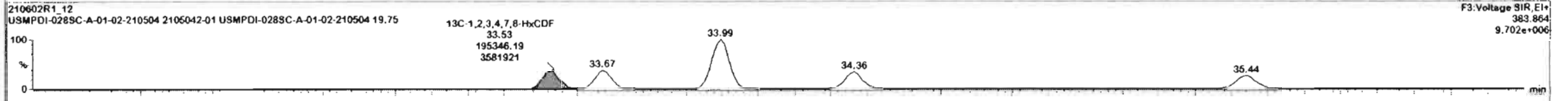
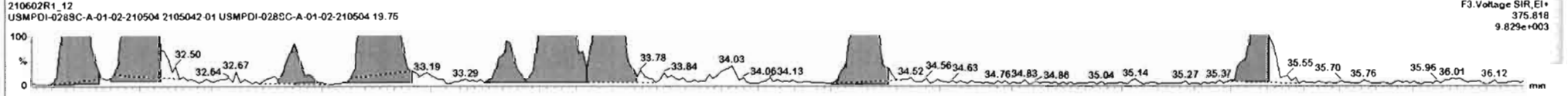
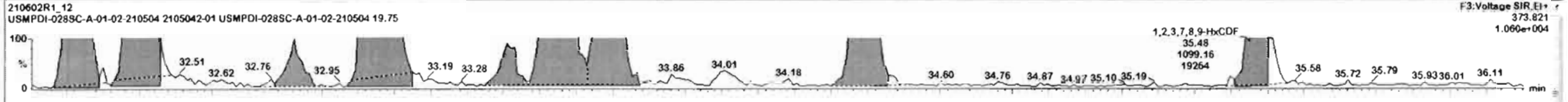


DPE3



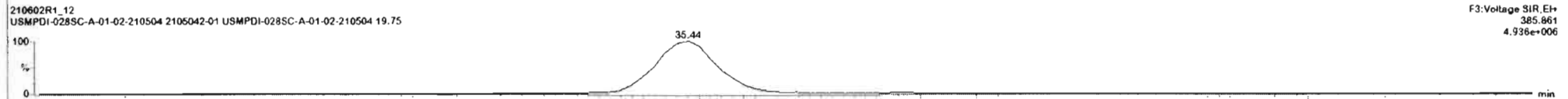
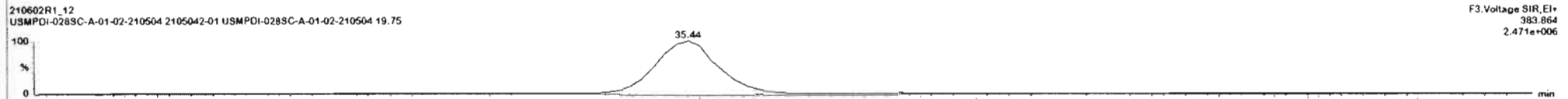
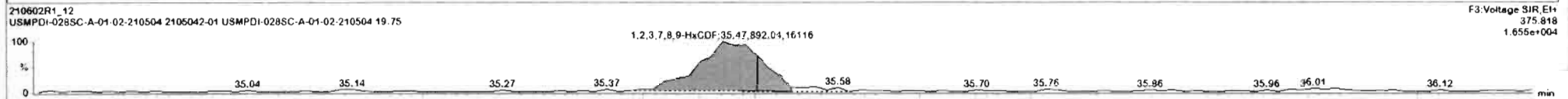
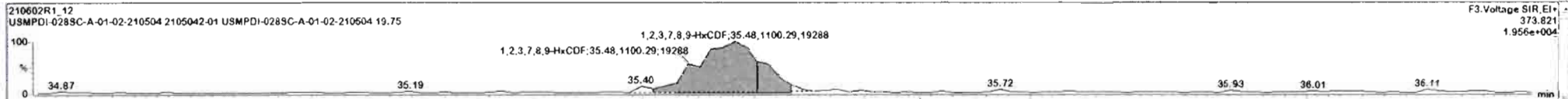
Name	Resp	RA	nly	RRF	wt%wt	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	10.023			17.9	0.0971	19.0	
44 1st Func. Penta-Furans				0.88	10.023			7.29	0.0194	7.29	
45 Total Penta-Furans				0.88	10.023			15.1	0.212	15.1	
46 Total Hexa-Furans				0.87	10.023			39.9	0.104	39.9	
47 Total Hepta-Furans				1.05	10.023			62.4	0.154	62.4	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 PFK6											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.23	4.830e3	4.025e3	1.15	NO	3.2640	3.2640
2 Total Hexa-Furans	32.40	1.444e4	1.196e4	1.21	NO	9.9553	9.9553
3 Total Hexa-Furans	32.82	4.751e2	3.621e2	1.31	NO	0.31568	0.31568
4 Total Hexa-Furans	33.05	2.035e4	1.625e4	1.25	NO	13.801	13.801
5 Total Hexa-Furans	33.41	4.843e2	4.162e2	1.16	NO	0.33956	0.33956
6 1,2,3,4,7,8-HxCDF	33.54	1.054e4	8.479e3	1.24	NO	7.0982	7.0982
7 1,2,3,6,7,8-HxCDF	33.88	3.989e3	3.302e3	1.20	NO	2.6851	2.6851
8 2,3,4,6,7,8-HxCDF	34.39	2.281e3	1.908e3	1.19	NO	1.5833	1.5833
9 1,2,3,7,8,9-HxCDF	35.48	1.699e3	8.748e2	1.26	NO	0.87697	0.87697



Name	Resp	IS Resp	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	RRT Fat	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans		0.00e0	0.9725	10.023	33.56				0.00	NO	40.1	0.104	40.1
47 Total Hepta-Furans		0.00e0	1.0451	10.023	37.53				0.00	NO	62.4	0.154	62.4
48 PFA1													
49 PFA2													
50 PFA3													
51 PFA4													
52 PFA5													
53 OPE1													
54 OPE2													

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.23	4.630e3	4.025e3	1.15	NO	3.2640	3.2640
2 1,2,3,7,8,9-HxCDF	35.48	1.100e3	8.020e2	1.23	NO	0.88508	0.88508
3 2,3,4,6,7,8-HxCDF	34.39	2.281e3	1.908e3	1.19	NO	1.5833	1.5833
4 1,2,3,6,7,8-HxCDF	33.88	3.969e3	3.302e3	1.20	NO	2.8851	2.8851
5 1,2,3,4,7,8-HxCDF	33.54	1.054e4	8.479e3	1.24	NO	7.0982	7.0982
6 Total Hexa-Furans	33.41	4.843e2	4.162e2	1.16	NO	0.33956	0.33956
7 Total Hexa-Furans	33.05	2.035e4	1.625e4	1.25	NO	13.801	13.801
8 Total Hexa-Furans	32.82	4.751e2	3.621e2	1.31	NO	0.31566	0.31566
9 Total Hexa-Furans	32.40	1.444e4	1.198e4	1.21	NO	9.9553	9.9553
10 Total Hexa-Furans	35.50	2.665e2	2.032e2	1.31	NO	0.17714	0.17714



Ready

210602R1_12

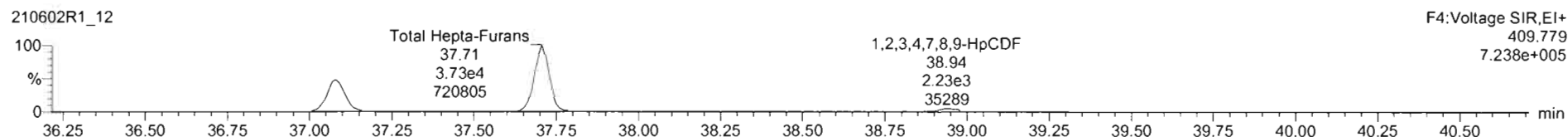
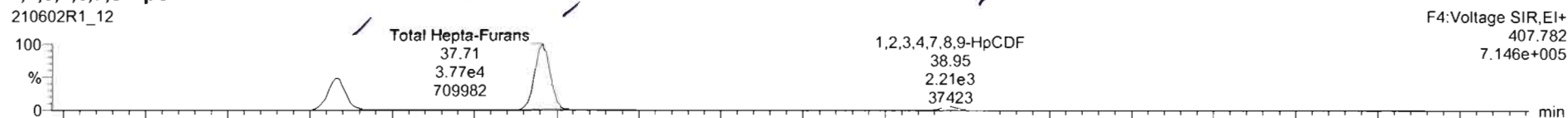
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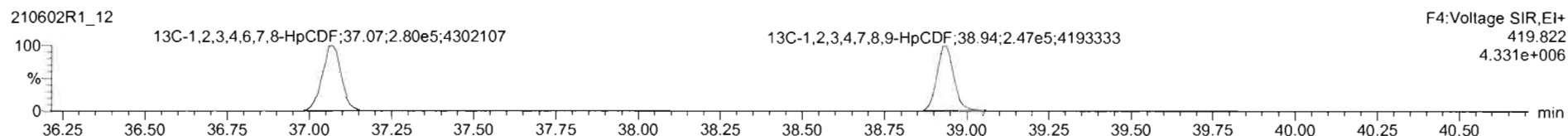
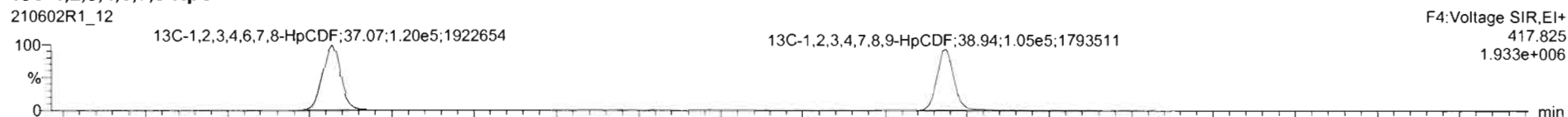
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Printed: Thursday, June 03, 2021 14:53:49 Pacific Daylight Time

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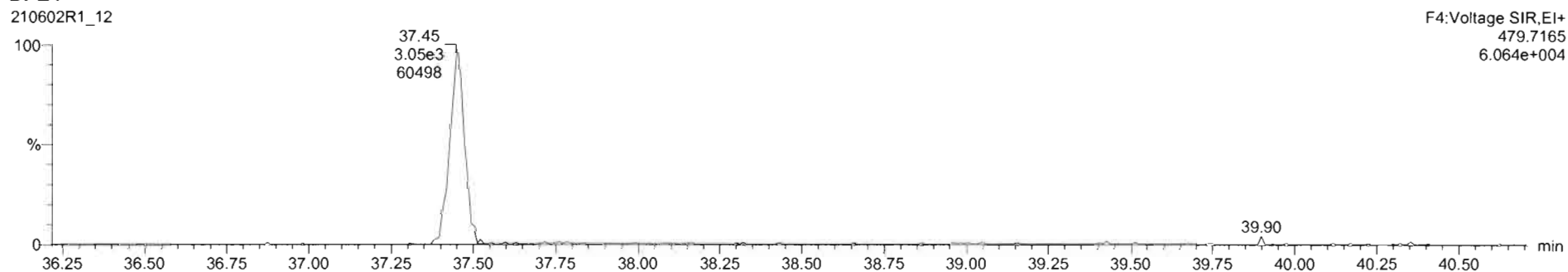
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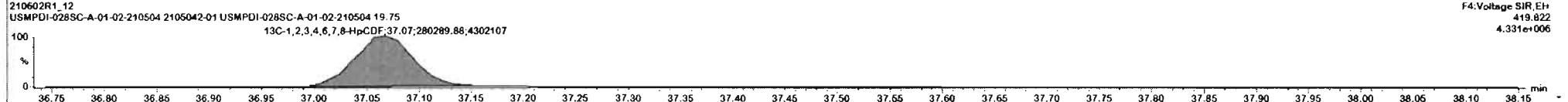
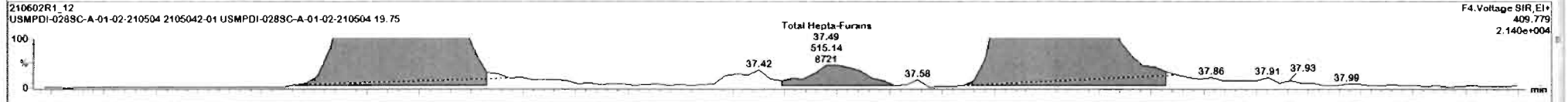
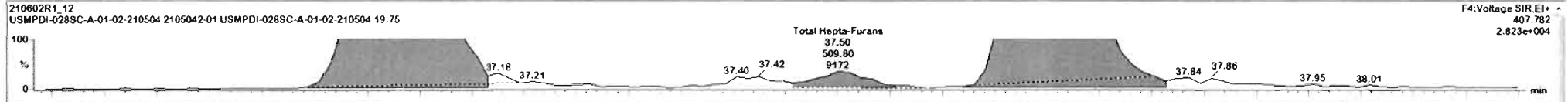
DPE4



210602R1_12 - 2105042-01 USMPDI-028SC-A-01-02-210504 19.75 - USMPDI-028SC-A-01-02-210504

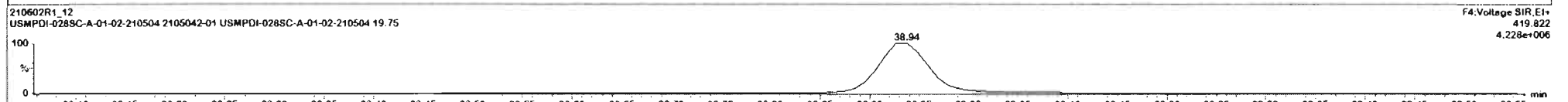
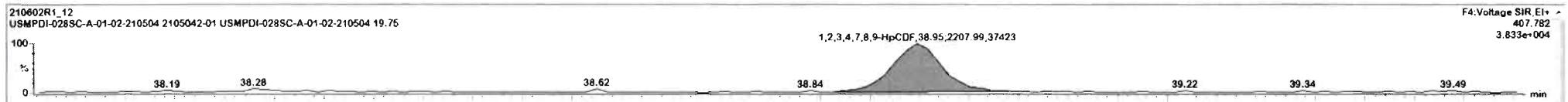
Name	Resp	RA	rv	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	10.023			17.9	0.2971	19.0	
44 1st Func. Penta-Furans				0.88	10.023			7.29	0.2194	7.29	
45 Total Penta-Furans				0.88	10.023			15.1	0.212	15.1	
46 Total Hexa-Furans				0.97	10.023			39.9	0.104	39.9	
47 Total Hepta-Furans				1.05	10.023			62.4	0.154	62.4	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 NPE1											

Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	37.08	2.192e4	2.193e4	1.00	NO	20.858	20.258
2 Total Hepta-Furans	37.50	5.098e2	5.151e2	0.99	NO	0.51907	0.51907
3 Total Hepta-Furans	37.71	3.844e4	3.772e4	1.02	NO	38.570	38.570
4 1,2,3,4,7,8-HpCDF	38.95	2.208e3	2.227e3	0.99	NO	2.4073	2.4073



Name	Resp	RA	nly	RRF	wlvel	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	10.023			17.9	0.0971	19.0	
44 1st Func. Penta-Furans				0.88	10.023			7.29	0.0194	7.29	
45 Total Penta-Furans				0.88	10.023			15.1	0.212	15.1	
46 Total Hexa-Furans				0.97	10.023			39.9	0.104	39.9	
47 Total Hepta-Furans				1.05	10.023			62.4	0.154	62.4	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 PFK6											

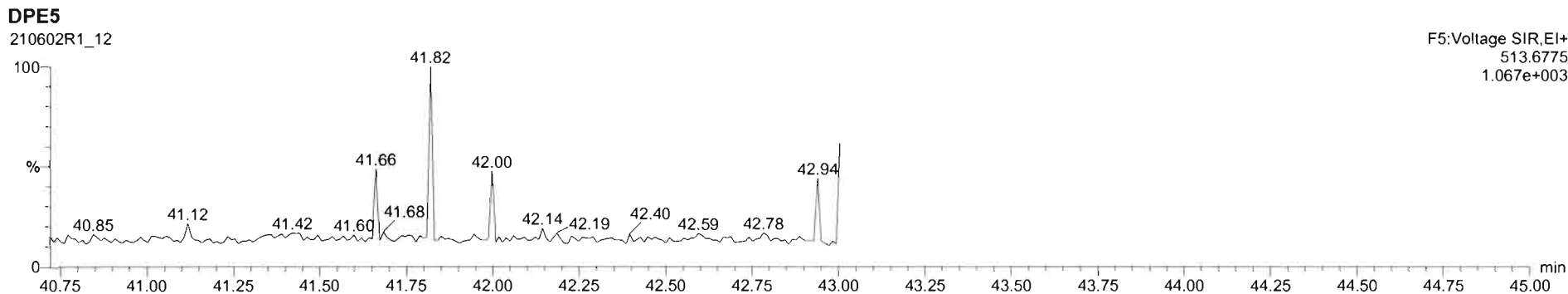
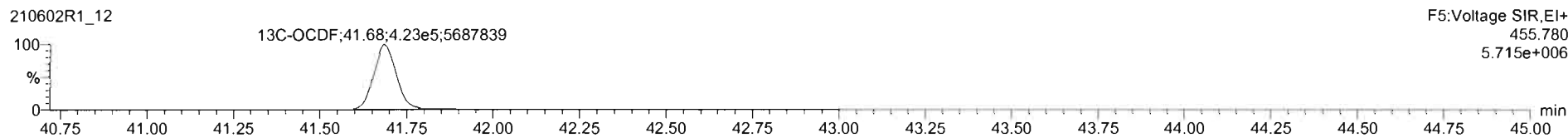
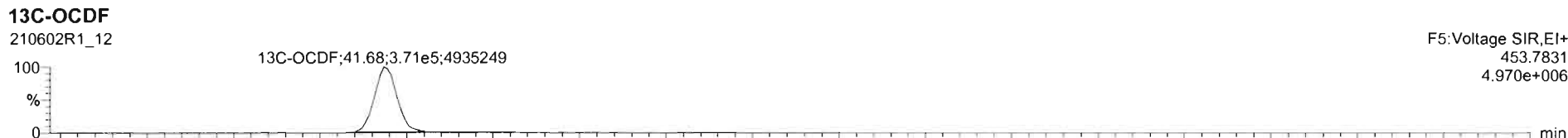
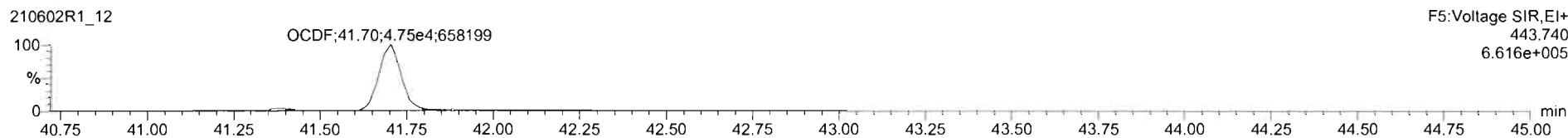
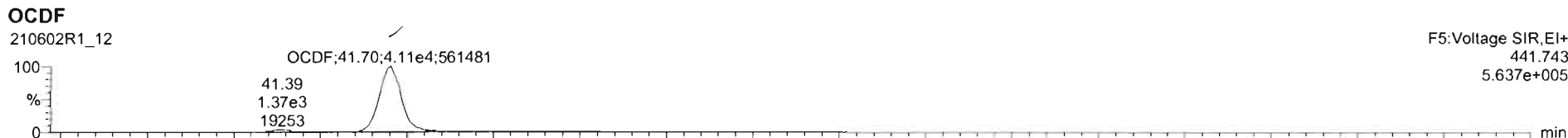
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	37.08	2.192e4	2.193e4	1.00	NO	20.858	20.858
2 Total Hepta-Furans	37.50	5.098e2	5.151e2	0.99	NO	0.51907	0.51907
3 Total Hepta-Furans	37.71	3.844e4	3.772e4	1.02	NO	38.570	38.570
4 1,2,3,4,7,8,9-HpCDF	38.95	2.208e3	2.227e3	0.99	NO	2.4073	2.4073



Dataset: U:\VG12.PRO\Results\210602R1\210602R1_12.qld

Last Altered: Thursday, June 03, 2021 14:53:08 Pacific Daylight Time
Printed: Thursday, June 03, 2021 14:53:49 Pacific Daylight Time

Name: 210602R1_12, Date: 02-Jun-2021, Time: 22:06:29, ID: 2105042-01 USMPDI-028SC-A-01-02-210504 19.75, Description: USMPDI-028SC-A-01-02-210504

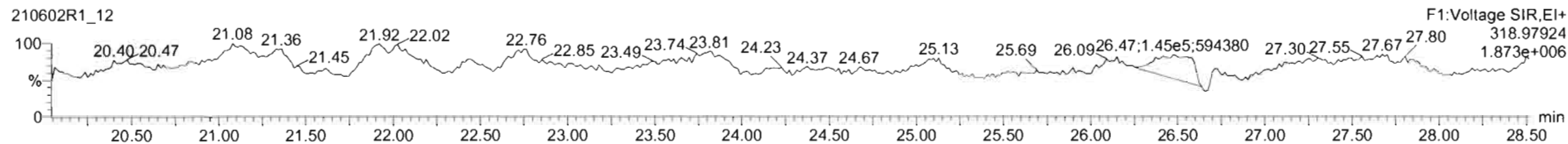


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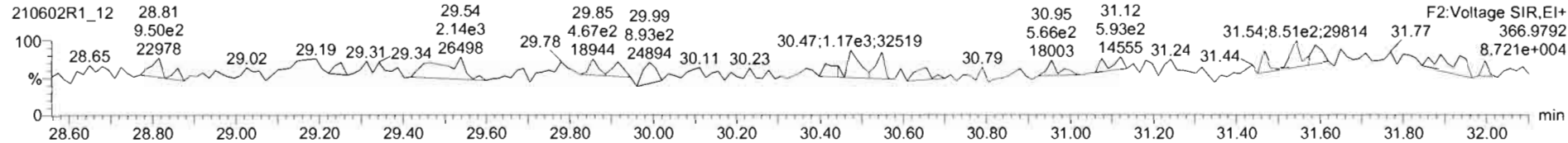
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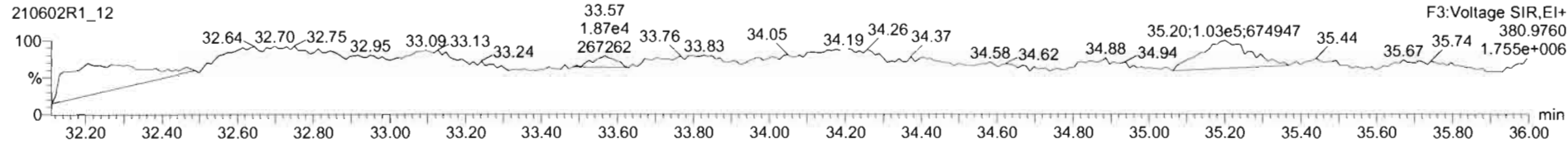
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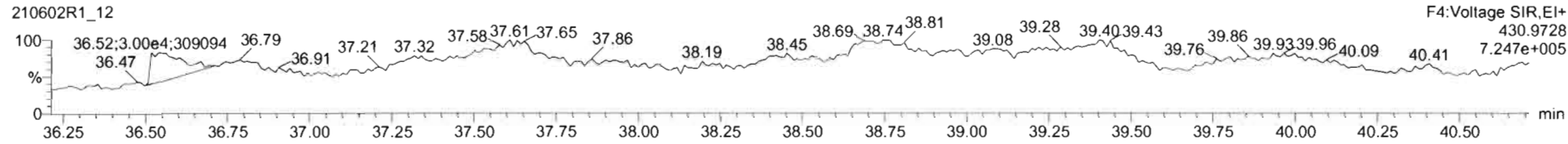
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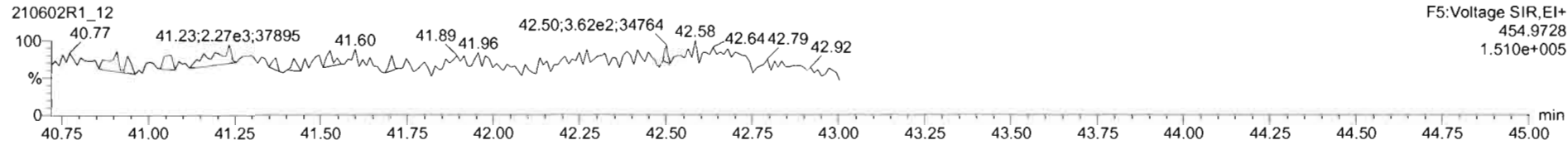
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\210602R1\210602R1_13.qld

Last Altered: Monday, June 21, 2021 4:59:08 PM Pacific Daylight Time
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by 0621-2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

C706123/2021

Name: 210602R1_13, Date: 02-Jun-2021, Time: 22:50:44, ID: B1E0224-DUP1 Duplicate 19.74, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.56e3	0.44	YES	0.929	10.018	26.698	26.68	1.001	1.001	0.53644		0.0238	0.376
2	2 1,2,3,7,8-PeCDD	3.16e3	0.58	NO	0.826	10.018	31.136	31.12	1.001	1.000	0.53251		0.0623	0.533
3	3 1,2,3,4,7,8-HxCDD	3.65e3	1.28	NO	0.972	10.018	34.466	34.47	1.001	1.001	0.76994		0.106	0.770
4	4 1,2,3,6,7,8-HxCDD	1.57e4	1.26	NO	0.877	10.018	34.602	34.59	1.001	1.000	3.2392		0.109	3.24
5	5 1,2,3,7,8,9-HxCDD	8.24e3	1.26	NO	0.874	10.018	34.884	34.88	1.000	1.000	1.6397		0.107	1.64
6	6 1,2,3,4,6,7,8-HpCDD	2.70e5	1.03	NO	0.899	10.018	38.279	38.28	1.000	1.000	72.730		0.311	72.7
7	7 OCDD	2.14e6	0.88	NO	0.852	10.018	41.356	41.36	1.000	1.000	742.56		0.584	743
8	8 2,3,7,8-TCDF	4.10e4	0.71	NO	0.747	10.018	26.048	26.07	1.000	1.001	4.5489		0.0337	4.55
9	9 1,2,3,7,8-PeCDF	4.12e4	1.56	NO	0.877	10.018	29.917	29.93	1.000	1.001	4.7279		0.0659	4.73
10	10 2,3,4,7,8-PeCDF	2.64e4	1.52	NO	0.962	10.018	30.946	30.94	1.001	1.000	2.7834		0.0584	2.78
11	11 1,2,3,4,7,8-HxCDF	5.00e4	1.22	NO	0.920	10.018	33.523	33.52	1.000	1.000	8.2877		0.0702	8.29
12	12 1,2,3,6,7,8-HxCDF	1.50e4	1.22	NO	0.936	10.018	33.669	33.67	1.001	1.001	2.4337		0.0712	2.43
13	13 2,3,4,6,7,8-HxCDF	6.74e3	1.19	NO	0.973	10.018	34.361	34.38	1.001	1.001	1.1501		0.0806	1.15
14	14 1,2,3,7,8,9-HxCDF	2.81e3	1.19	NO	0.940	10.018	35.429	35.46	1.000	1.001	0.55134		0.106	0.551
15	15 1,2,3,4,6,7,8-HpCDF	5.20e4	1.01	NO	1.05	10.018	37.076	37.08	1.000	1.001	11.161		0.0922	11.2
16	16 1,2,3,4,7,8,9-HpCDF	6.32e3	1.07	NO	1.05	10.018	38.939	38.94	1.000	1.000	1.5883		0.107	1.59
17	17 OCDF	9.65e4	0.84	NO	0.771	10.018	41.670	41.67	1.000	1.000	31.405		0.137	31.4
18	18 13C-2,3,7,8-TCDD	1.83e6	0.78	NO	1.10	10.018	26.655	26.67	1.027	1.027	195.61	98.0	0.0759	
19	19 13C-1,2,3,7,8-PeCDD	1.43e6	0.63	NO	0.864	10.018	31.034	31.10	1.196	1.198	196.38	98.4	0.130	
20	20 13C-1,2,3,4,7,8-HxCDD	9.74e5	1.29	NO	0.746	10.018	34.443	34.44	1.014	1.014	162.99	81.6	0.201	
21	21 13C-1,2,3,6,7,8-HxCDD	1.10e6	1.27	NO	0.847	10.018	34.562	34.58	1.017	1.018	162.76	81.5	0.177	
22	22 13C-1,2,3,7,8,9-HxCDD	1.15e6	1.25	NO	0.868	10.018	34.861	34.87	1.026	1.026	165.18	82.7	0.172	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.23e5	1.05	NO	0.664	10.018	38.207	38.27	1.125	1.126	154.83	77.6	0.332	
24	24 13C-OCDD	1.35e6	0.90	NO	0.561	10.018	41.153	41.35	1.211	1.217	300.29	75.2	0.431	
25	25 13C-2,3,7,8-TCDF	2.41e6	0.77	NO	1.09	10.018	26.045	26.05	1.003	1.003	171.31	85.8	0.0587	
26	26 13C-1,2,3,7,8-PeCDF	1.98e6	1.61	NO	0.809	10.018	29.765	29.91	1.147	1.152	190.25	95.3	0.210	
27	27 13C-2,3,4,7,8-PeCDF	1.97e6	1.59	NO	0.803	10.018	30.725	30.92	1.184	1.191	190.31	95.3	0.211	
28	28 13C-1,2,3,4,7,8-HxCDF	1.31e6	0.51	NO	1.01	10.018	33.515	33.51	0.987	0.986	161.53	80.9	0.181	
29	29 13C-1,2,3,6,7,8-HxCDF	1.31e6	0.51	NO	1.07	10.018	33.644	33.65	0.990	0.990	152.49	76.4	0.170	
30	30 13C-2,3,4,6,7,8-HxCDF	1.20e6	0.51	NO	0.910	10.018	34.334	34.34	1.011	1.011	165.20	82.7	0.201	
31	31 13C-1,2,3,7,8,9-HxCDF	1.08e6	0.51	NO	0.828	10.018	35.411	35.42	1.042	1.043	163.01	81.7	0.220	

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_13.qld

Last Altered: Monday, June 21, 2021 4:59:08 PM Pacific Daylight Time
Printed: Monday, June 21, 2021 5:13:20 PM Pacific Daylight Time

Name: 210602R1_13, Date: 02-Jun-2021, Time: 22:50:44, ID: B1E0224-DUP1 Duplicate 19.74, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.88e5	0.43	NO	0.661	10.018	37.018	37.06	1.090	1.091	167.77	84.0	0.318	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.60e5	0.43	NO	0.566	10.018	38.778	38.93	1.141	1.146	167.85	84.1	0.372	
34	34 13C-OCDF	1.59e6	0.90	NO	0.663	10.018	41.540	41.66	1.223	1.226	299.79	75.1	0.374	
35	35 37Cl-2,3,7,8-TCDD	1.73e6			2.07	10.018	26.855	26.70	1.035	1.028	99.232	124	0.0213	
36	36 13C-1,2,3,4-TCDD	1.69e6	0.79	NO	1.00	10.018	26.070	25.96	1.000	1.000	199.64	100	0.0837	
37	37 13C-1,2,3,4-TCDF	2.57e6	0.78	NO	1.00	10.018	24.760	24.63	1.000	1.000	199.64	100	0.0642	
38	38 13C-1,2,3,4,6,9-HxCDF	1.60e6	0.51	NO	1.00	10.018	34.040	33.97	1.000	1.000	199.64	100	0.183	
39	39 Total Tetra-Dioxins				0.929	10.018	24.620		0.000		3.5639		0.0238	4.05
40	40 Total Penta-Dioxins				0.826	10.018	29.960		0.000		4.7110		0.0623	5.94
41	41 Total Hexa-Dioxins				0.877	10.018	33.635		0.000		28.673		0.111	28.7
42	42 Total Hepta-Dioxins				0.899	10.018	37.640		0.000		160.10		0.311	160
43	43 Total Tetra-Furans				0.747	10.018	23.610		0.000		17.357		0.0337	20.4
44	44 1st Func. Penta-Furans				0.877	10.018	27.620		0.000		5.4477		0.00980	5.45
45	45 Total Penta-Furans				0.877	10.018	29.275		0.000		17.786		0.0650	17.8
46	46 Total Hexa-Furans				0.973	10.018	33.555		0.000		31.781		0.0784	32.0
47	47 Total Hepta-Furans				1.05	10.018	37.835		0.000		35.170		0.0988	35.2

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_13.qld

Last Altered: Monday, June 21, 2021 4:59:08 PM Pacific Daylight Time

Printed: Monday, June 21, 2021 5:13:20 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_13, Date: 02-Jun-2021, Time: 22:50:44, ID: B1E0224-DUP1 Duplicate 19.74, Description: Duplicate

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	3.610e4	4.764e4	2.875e3	3.783e3	0.76	NO	6.658e3	0.78356	0.78356	0.0238
2	Total Tetra-Dioxins	23.56	1.885e4	2.800e4	1.607e3	2.100e3	0.77	NO	3.708e3	0.43635	0.43635	0.0238
3	Total Tetra-Dioxins	24.03	1.194e4	1.949e4	8.910e2	1.219e3	0.73	NO	2.110e3	0.24830	0.24830	0.0238
4	Total Tetra-Dioxins	24.77	1.805e4	2.178e4	1.043e3	1.433e3	0.73	NO	2.477e3	0.29149	0.29149	0.0238
5	Total Tetra-Dioxins	24.98	8.539e3	1.293e4	6.679e2	1.008e3	0.66	NO	1.676e3	0.19728	0.19728	0.0238
6	Total Tetra-Dioxins	25.17	1.492e4	1.859e4	9.735e2	1.313e3	0.74	NO	2.286e3	0.26906	0.26906	0.0238
7	Total Tetra-Dioxins	25.35	4.289e3	5.994e3	3.019e2	3.730e2	0.81	NO	6.749e2	0.079431	0.079431	0.0238
8	Total Tetra-Dioxins	25.63	5.572e3	9.486e3	2.892e2	4.385e2	0.66	NO	7.276e2	0.085636	0.085636	0.0238
9	Total Tetra-Dioxins	25.69	7.821e3	1.039e4	4.847e2	5.791e2	0.84	NO	1.064e3	0.12519	0.12519	0.0238
10	Total Tetra-Dioxins	25.99	4.416e3	4.632e3	1.566e2	1.915e2	0.82	NO	3.482e2	0.040974	0.040974	0.0238
11	Total Tetra-Dioxins	26.43	5.721e4	7.738e4	3.433e3	4.516e3	0.76	NO	7.949e3	0.93557	0.93557	0.0238
12	2,3,7,8-TCDD	26.68	2.284e4	5.176e4	1.391e3	3.167e3	0.44	YES	4.558e3	0.00000	0.37641	0.0238
13	Total Tetra-Dioxins	27.01	7.510e3	9.668e3	4.740e2	5.281e2	0.90	YES	0.000e0	0.00000	0.11001	0.0238
14	Total Tetra-Dioxins	27.54	5.808e3	5.720e3	2.700e2	3.337e2	0.81	NO	6.037e2	0.071046	0.071046	0.0238

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.93	5.682e4	9.312e4	4.143e3	6.591e3	0.63	NO	1.073e4	1.8099	1.8099	0.0623
2	Total Penta-Dioxins	29.40	2.381e4	4.152e4	1.261e3	1.842e3	0.68	NO	3.104e3	0.52334	0.52334	0.0623
3	Total Penta-Dioxins	29.90	3.123e4	5.449e4	1.655e3	2.523e3	0.66	NO	4.178e3	0.70456	0.70456	0.0623
4	Total Penta-Dioxins	30.06	3.294e4	4.704e4	2.568e3	3.978e3	0.65	NO	0.000e0	0.00000	1.1040	0.0623
5	Total Penta-Dioxins	30.34	2.702e4	4.167e4	1.866e3	2.902e3	0.64	NO	4.767e3	0.80393	0.80393	0.0623
6	Total Penta-Dioxins	30.67	4.640e3	1.086e4	2.798e2	5.304e2	0.53	YES	0.000e0	0.00000	0.12206	0.0623
7	1,2,3,7,8-PeCDD	31.12	1.993e4	3.527e4	1.161e3	1.997e3	0.58	NO	3.158e3	0.53251	0.53251	0.0623
8	Total Penta-Dioxins	31.19	7.158e3	1.020e4	3.243e2	5.443e2	0.60	NO	8.686e2	0.14647	0.14647	0.0623
9	Total Penta-Dioxins	31.47	9.711e3	1.812e4	4.130e2	7.152e2	0.58	NO	1.128e3	0.19026	0.19026	0.0623

Vista Analytical Laboratory

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Name: 210602R1_13, Date: 02-Jun-2021, Time: 22:50:44, ID: B1E0224-DUP1 Duplicate 19.74, Description: Duplicate

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.74	4.765e5	3.957e5	2.483e4	2.001e4	1.24	NO	4.484e4	9.4912	9.4912	0.111
2	Total Hexa-Dioxins	33.37	5.724e4	4.627e4	3.048e3	2.519e3	1.21	NO	5.567e3	1.1784	1.1784	0.111
3	Total Hexa-Dioxins	33.68	4.202e5	3.185e5	3.013e4	2.359e4	1.28	NO	5.372e4	11.371	11.371	0.111
4	Total Hexa-Dioxins	33.77	3.005e4	2.388e4	1.357e3	1.120e3	1.21	NO	2.477e3	0.52424	0.52424	0.111
5	1,2,3,4,7,8-HxCDD	34.47	3.065e4	2.852e4	2.049e3	1.603e3	1.28	NO	3.652e3	0.76994	0.76994	0.106
6	1,2,3,6,7,8-HxCDD	34.59	1.361e5	1.116e5	8.753e3	6.952e3	1.26	NO	1.570e4	3.2392	3.2392	0.109
7	Total Hexa-Dioxins	34.77	1.915e4	1.590e4	1.152e3	1.017e3	1.13	NO	2.169e3	0.45910	0.45910	0.111
8	1,2,3,7,8,9-HxCDD	34.88	7.041e4	5.535e4	4.595e3	3.648e3	1.26	NO	8.243e3	1.6397	1.6397	0.107

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.40	2.483e6	2.430e6	1.634e5	1.604e5	1.02	NO	3.238e5	87.366	87.366	0.311
2	1,2,3,4,6,7,8-HpCDD	38.28	2.222e6	2.185e6	1.367e5	1.329e5	1.03	NO	2.696e5	72.730	72.730	0.311

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Name: 210602R1_13, Date: 02-Jun-2021, Time: 22:50:44, ID: B1E0224-DUP1 Duplicate 19.74, Description: Duplicate

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.15	3.096e3	2.909e3	1.820e2	2.162e2	0.84	NO	3.983e2	0.044154	0.044154	0.0337
2	Total Tetra-Furans	21.74	1.367e4	1.909e4	1.185e3	1.550e3	0.77	NO	2.735e3	0.30321	0.30321	0.0337
3	Total Tetra-Furans	22.50	9.375e4	1.299e5	7.863e3	1.054e4	0.75	NO	1.840e4	2.0403	2.0403	0.0337
4	Total Tetra-Furans	22.84	7.998e3	1.250e4	5.401e2	8.352e2	0.65	YES	0.000e0	0.00000	0.13765	0.0337
5	Total Tetra-Furans	22.94	2.503e4	3.350e4	2.926e3	4.064e3	0.72	NO	6.990e3	0.77497	0.77497	0.0337
6	Total Tetra-Furans	23.31	6.444e4	8.098e4	6.039e3	7.795e3	0.77	NO	1.383e4	1.5337	1.5337	0.0337
7	Total Tetra-Furans	23.72	4.649e4	6.195e4	3.341e3	4.450e3	0.75	NO	7.791e3	0.86376	0.86376	0.0337
8	Total Tetra-Furans	23.84	1.450e4	2.007e4	1.069e3	1.375e3	0.78	NO	2.444e3	0.27094	0.27094	0.0337
9	Total Tetra-Furans	24.03	2.298e4	3.378e4	1.702e3	2.489e3	0.68	NO	4.191e3	0.46463	0.46463	0.0337
10	Total Tetra-Furans	24.42	8.174e3	1.034e4	5.794e2	6.697e2	0.87	NO	1.249e3	0.13848	0.13848	0.0337
11	Total Tetra-Furans	24.48	1.201e4	1.970e4	8.891e2	1.377e3	0.65	YES	0.000e0	0.00000	0.22659	0.0337
12	Total Tetra-Furans	24.66	2.410e4	2.821e4	5.977e2	7.549e2	0.79	NO	1.353e3	0.14996	0.14996	0.0337
13	Total Tetra-Furans	24.70	9.020e4	1.204e5	8.627e3	1.143e4	0.75	NO	0.000e0	0.00000	2.2241	0.0337
14	Total Tetra-Furans	25.14	2.159e5	2.867e5	1.402e4	1.867e4	0.75	NO	3.270e4	3.6250	3.6250	0.0337
15	Total Tetra-Furans	25.45	1.748e4	2.531e4	1.189e3	1.508e3	0.79	NO	2.696e3	0.29895	0.29895	0.0337
16	Total Tetra-Furans	25.54	9.871e3	9.876e3	4.995e2	6.484e2	0.77	NO	1.148e3	0.12727	0.12727	0.0337
17	Total Tetra-Furans	25.81	1.052e4	1.218e4	6.980e2	8.803e2	0.79	NO	1.578e3	0.17499	0.17499	0.0337
18	Total Tetra-Furans	25.94	6.745e4	8.889e4	4.116e3	5.667e3	0.73	NO	9.784e3	1.0847	1.0847	0.0337
19	2,3,7,8-TCDF	26.07	2.720e5	4.020e5	1.704e4	2.399e4	0.71	NO	4.103e4	4.5489	4.5489	0.0337
20	Total Tetra-Furans	26.34	2.524e4	3.599e4	2.389e3	3.105e3	0.77	NO	5.494e3	0.60910	0.60910	0.0337
21	Total Tetra-Furans	26.61	5.050e3	7.451e3	2.542e2	3.914e2	0.65	YES	0.000e0	0.00000	0.064781	0.0337
22	Total Tetra-Furans	27.43	1.071e4	2.040e4	6.884e2	1.181e3	0.58	YES	0.000e0	0.00000	0.17543	0.0337
23	Total Tetra-Furans	27.64	2.683e4	1.814e4	1.640e3	1.056e3	1.55	YES	0.000e0	0.00000	0.20717	0.0337
24	Total Tetra-Furans	27.85	2.185e4	2.664e4	1.176e3	1.566e3	0.75	NO	2.742e3	0.30398	0.30398	0.0337

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	5.205e5	3.078e5	2.929e4	1.801e4	1.63	NO	4.730e4	5.4477	5.4477	0.00980

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Name: 210602R1_13, Date: 02-Jun-2021, Time: 22:50:44, ID: B1E0224-DUP1 Duplicate 19.74, Description: Duplicate

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	3.457e4	2.368e4	2.492e3	1.592e3	1.57	NO	4.084e3	0.47044	0.47044	0.0650
2	Total Penta-Furans	28.97	3.567e5	2.150e5	2.738e4	1.645e4	1.66	NO	4.383e4	5.0490	5.0490	0.0650
3	Total Penta-Furans	29.40	1.252e4	7.541e3	7.780e2	5.251e2	1.48	NO	1.303e3	0.15010	0.15010	0.0650
4	Total Penta-Furans	29.57	1.695e5	1.034e5	8.558e3	5.560e3	1.54	NO	1.412e4	1.6262	1.6262	0.0650
5	Total Penta-Furans	29.73	5.734e4	3.481e4	3.186e3	2.168e3	1.47	NO	5.354e3	0.61667	0.61667	0.0650
6	1,2,3,7,8-PeCDF	29.93	5.091e5	3.117e5	2.508e4	1.612e4	1.56	NO	4.120e4	4.7279	4.7279	0.0659
7	Total Penta-Furans	30.17	1.724e5	1.124e5	9.231e3	5.809e3	1.59	NO	1.504e4	1.7324	1.7324	0.0650
8	Total Penta-Furans	30.76	2.005e4	1.250e4	1.186e3	8.484e2	1.40	NO	2.035e3	0.23437	0.23437	0.0650
9	2,3,4,7,8-PeCDF	30.94	2.956e5	1.914e5	1.592e4	1.049e4	1.52	NO	2.640e4	2.7834	2.7834	0.0584
10	Total Penta-Furans	31.75	3.242e4	2.250e4	1.383e3	8.038e2	1.72	NO	2.187e3	0.25188	0.25188	0.0650
11	Total Penta-Furans	31.83	1.751e4	8.473e3	7.916e2	4.543e2	1.74	NO	1.246e3	0.14351	0.14351	0.0650

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.21	1.409e5	1.128e5	6.470e3	5.342e3	1.21	NO	1.181e4	1.9781	1.9781	0.0784
2	Total Hexa-Furans	32.38	4.223e5	3.266e5	2.086e4	1.660e4	1.26	NO	3.747e4	6.2744	6.2744	0.0784
3	Total Hexa-Furans	32.80	1.176e4	1.059e4	6.378e2	5.120e2	1.25	NO	1.150e3	0.19255	0.19255	0.0784
4	Total Hexa-Furans	33.03	6.354e5	5.196e5	3.361e4	2.762e4	1.22	NO	6.123e4	10.253	10.253	0.0784
5	Total Hexa-Furans	33.39	1.751e4	1.030e4	7.938e2	5.286e2	1.50	YES	0.000e0	0.00000	0.19831	0.0784
6	1,2,3,4,7,8-HxCDF	33.52	4.998e5	4.113e5	2.746e4	2.250e4	1.22	NO	4.996e4	8.2877	8.2877	0.0702
7	1,2,3,6,7,8-HxCDF	33.67	1.445e5	1.142e5	8.225e3	6.735e3	1.22	NO	1.496e4	2.4337	2.4337	0.0712
8	Total Hexa-Furans	33.99	8.132e3	4.539e3	3.412e2	2.684e2	1.27	NO	6.096e2	0.10209	0.10209	0.0784
9	2,3,4,6,7,8-HxCDF	34.38	4.524e4	4.381e4	3.656e3	3.085e3	1.19	NO	6.741e3	1.1501	1.1501	0.0806
10	1,2,3,7,8,9-HxCDF	35.46	4.417e4	3.457e4	1.527e3	1.279e3	1.19	NO	2.806e3	0.55134	0.55134	0.106
11	Total Hexa-Furans	35.47	4.605e4	3.461e4	1.864e3	1.469e3	1.27	NO	3.332e3	0.55807	0.55807	0.0784

Quantify Totals Report MassLynx 4.1 SCN815

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.08	3.777e5	3.769e5	2.608e4	2.595e4	1.01	NO	5.203e4	11.161	11.161	0.0922
2	Total Hepta-Furans	37.49	8.198e3	9.636e3	5.142e2	4.751e2	1.08	NO	9.893e2	0.22866	0.22866	0.0988
3	Total Hepta-Furans	37.71	8.085e5	8.039e5	4.789e4	4.813e4	1.00	NO	9.602e4	22.192	22.192	0.0988
4	1,2,3,4,7,8,9-HpCDF	38.94	4.935e4	4.369e4	3.267e3	3.057e3	1.07	NO	6.324e3	1.5883	1.5883	0.107

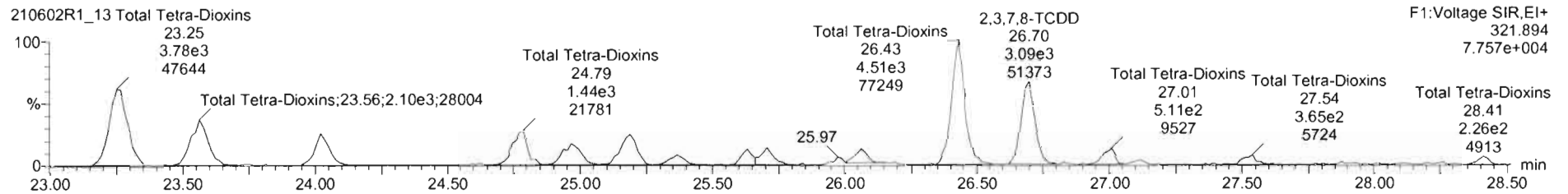
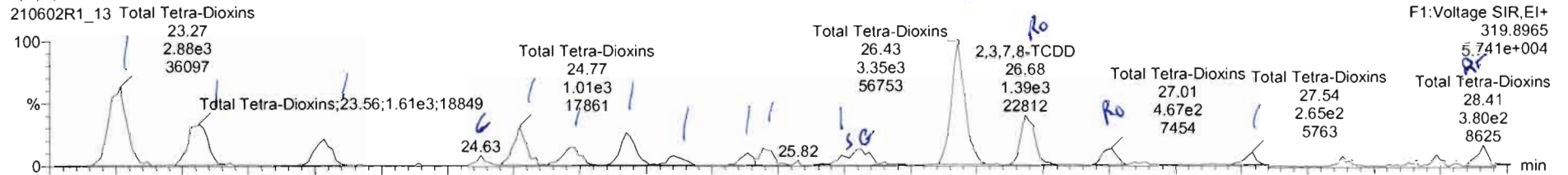
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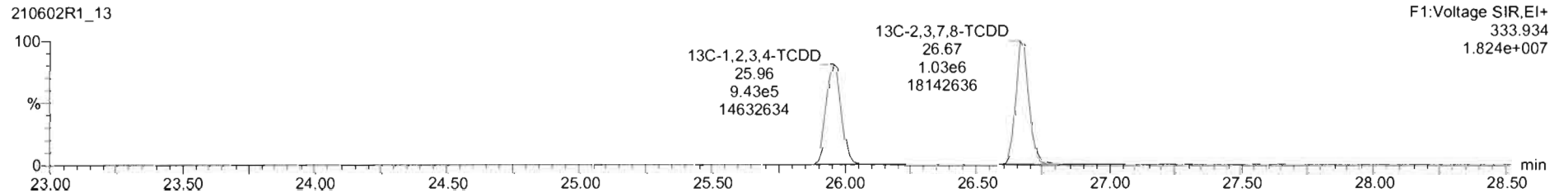
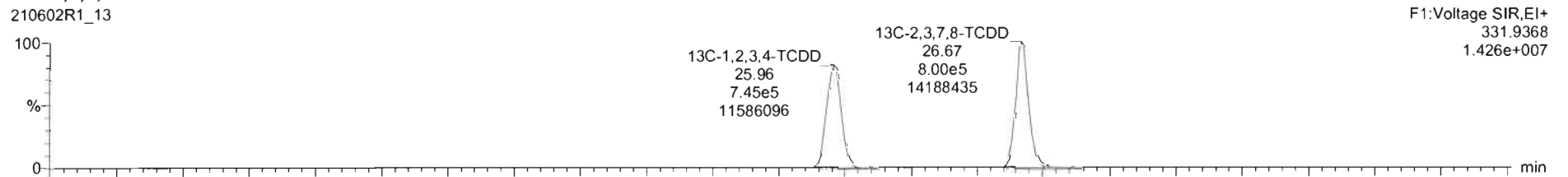
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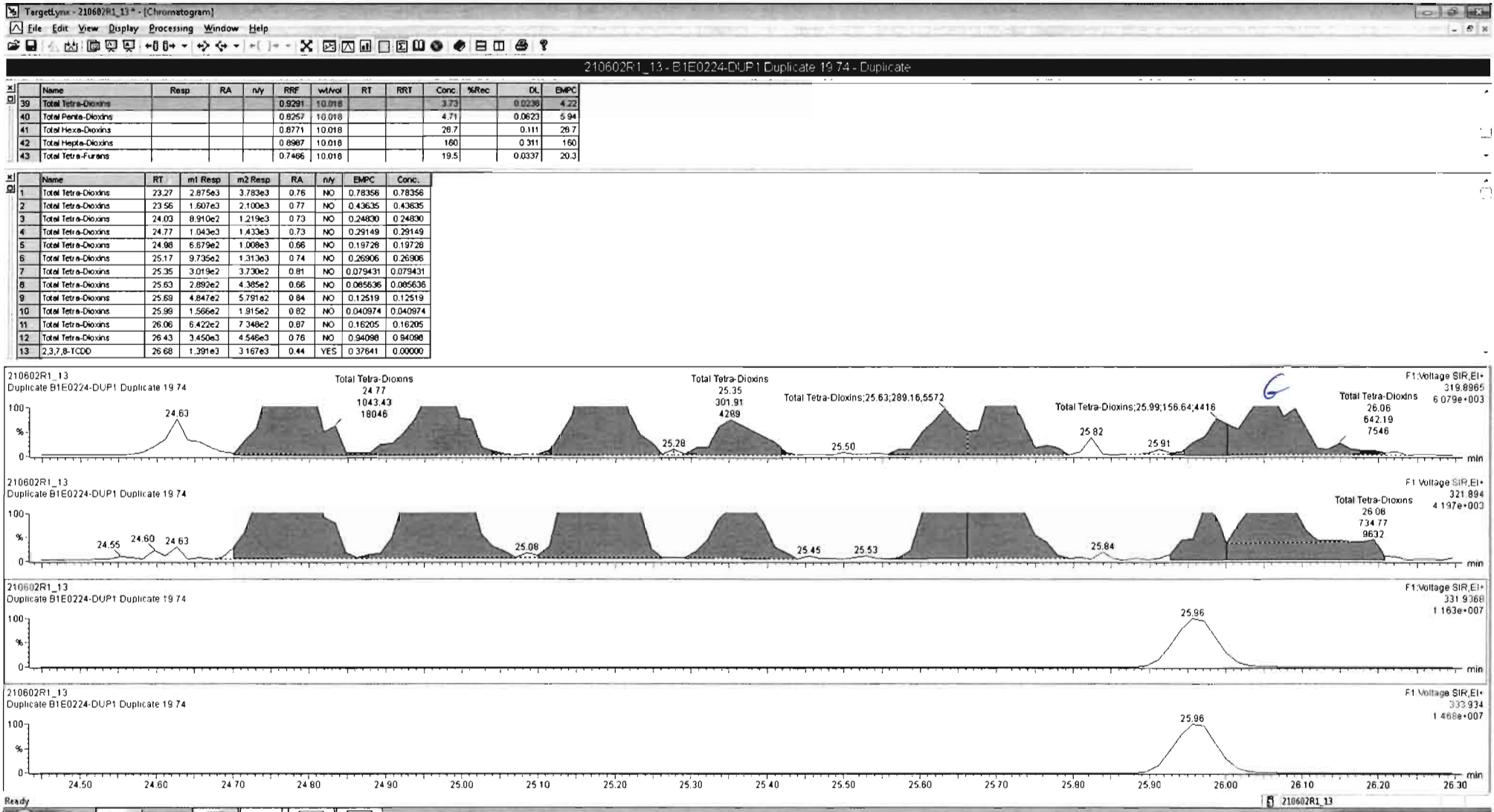
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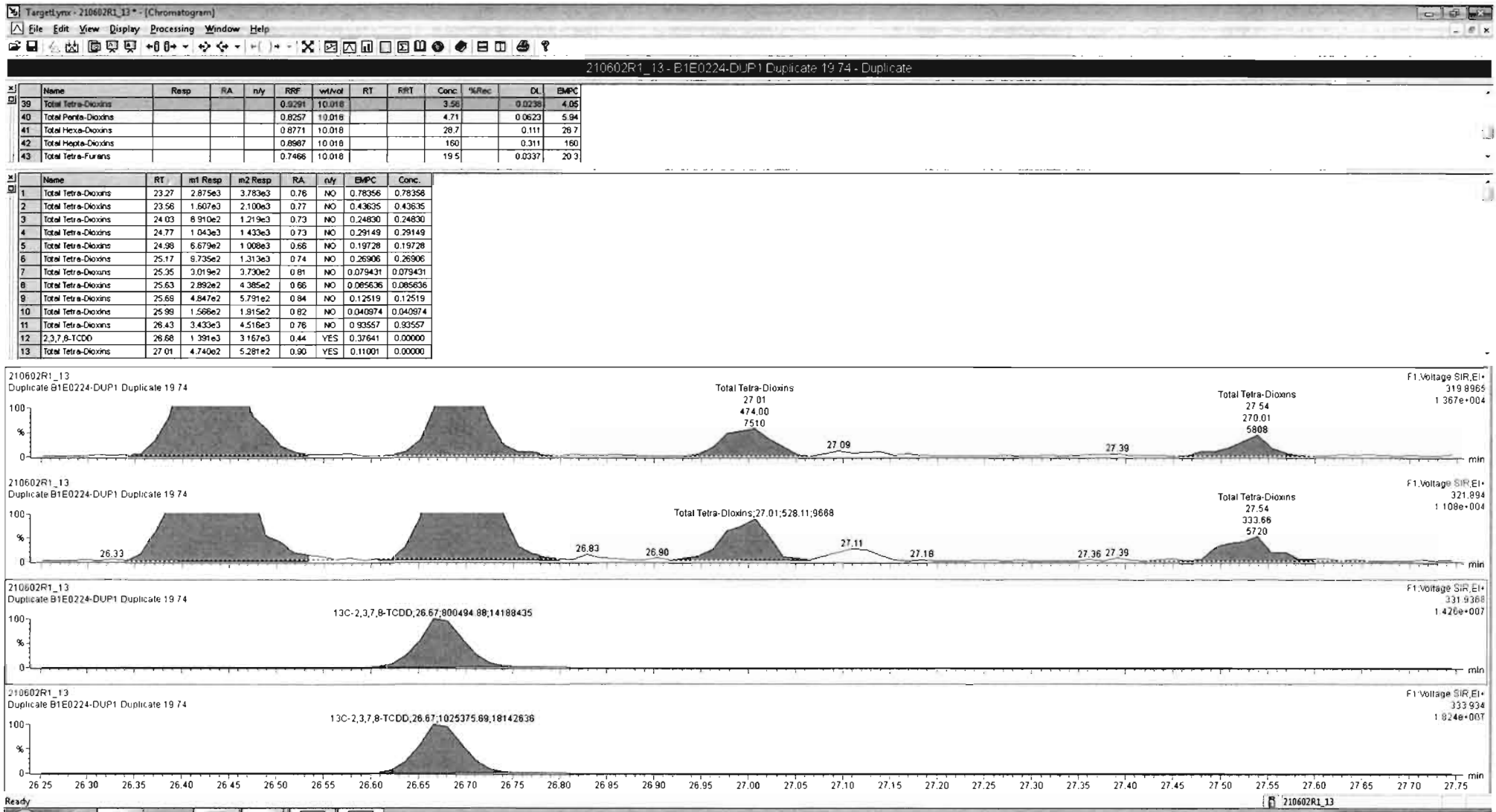
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13C-2,3,7,8-TCDD







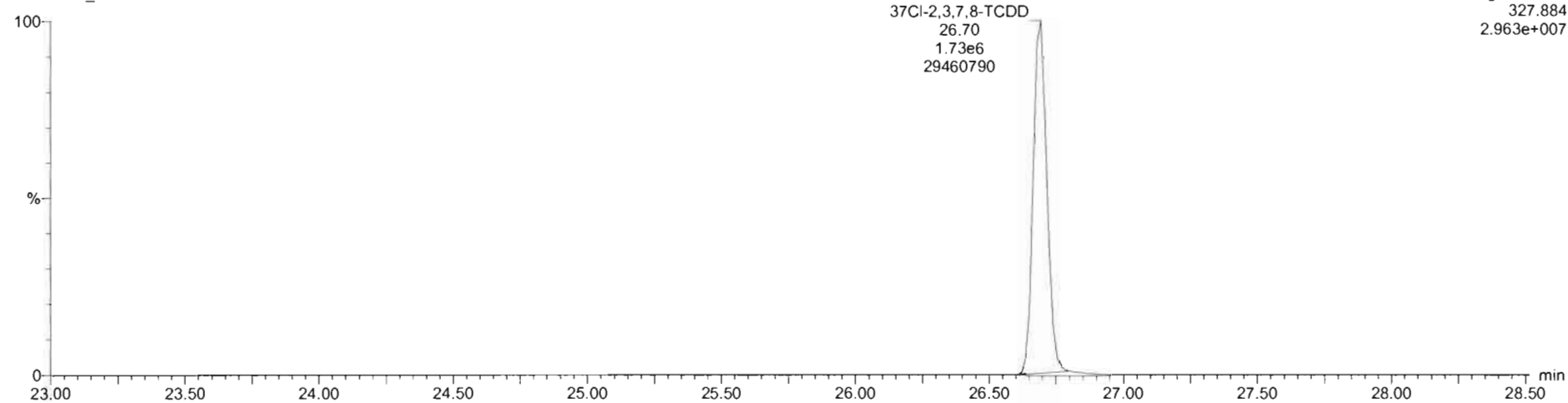
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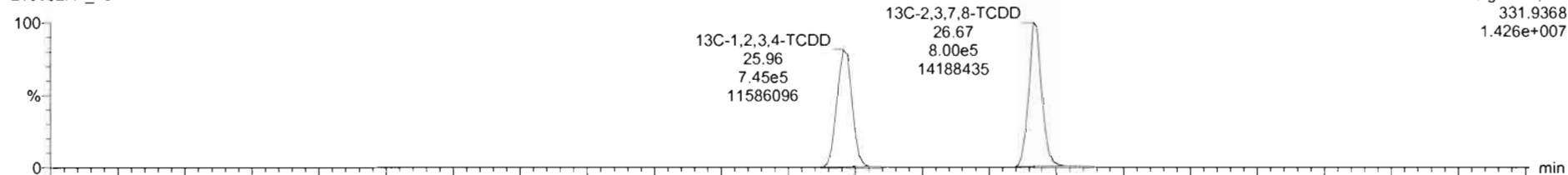
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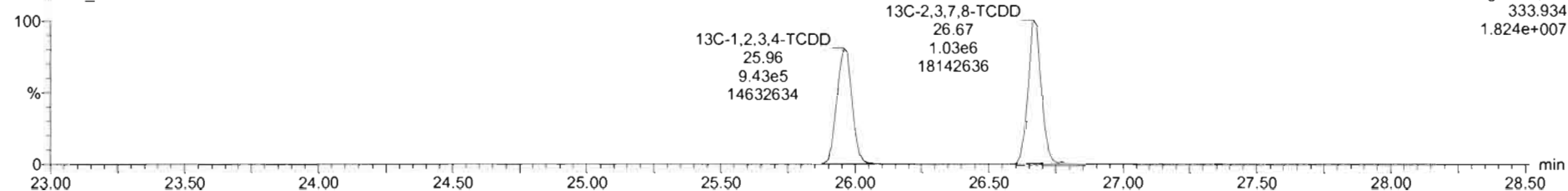


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210602R1_13



210602R1_13



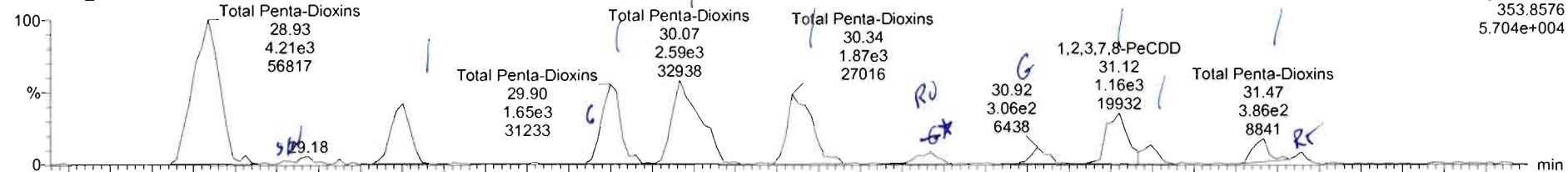
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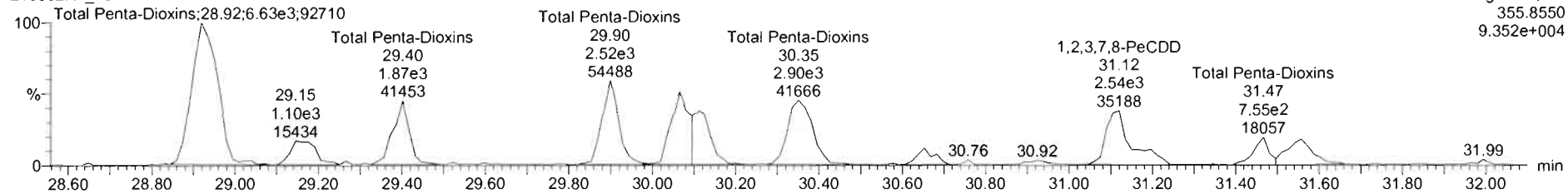
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210602R1_13



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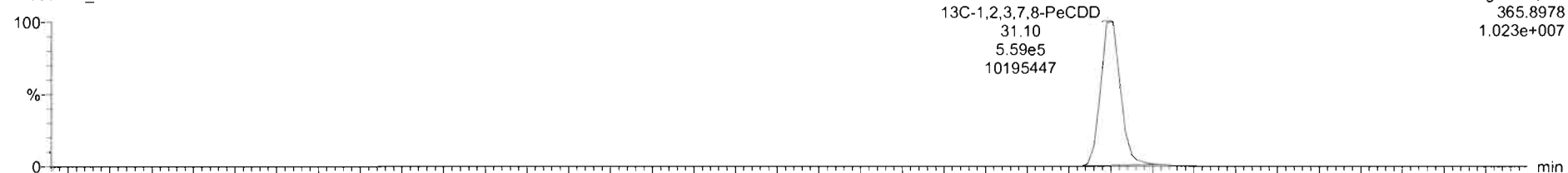
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F2:Voltage SIR,EI+
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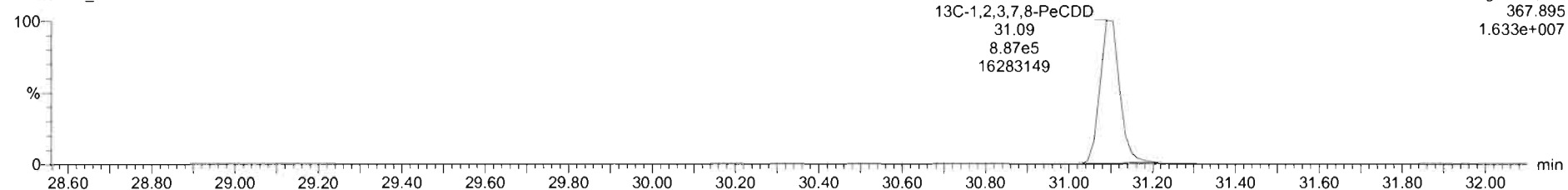
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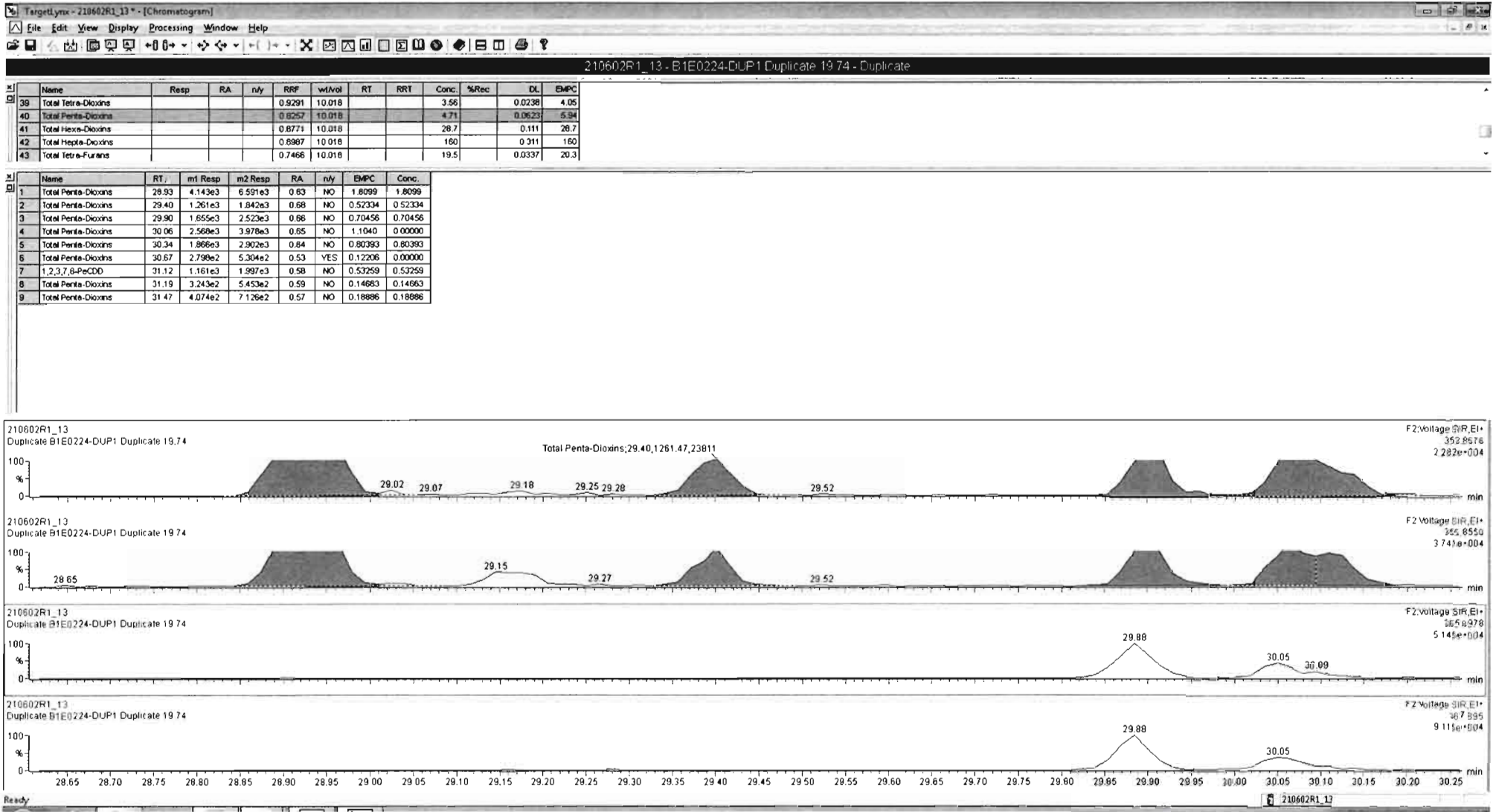


F2:Voltage SIR,EI+
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1.023e+007

210602R1_13



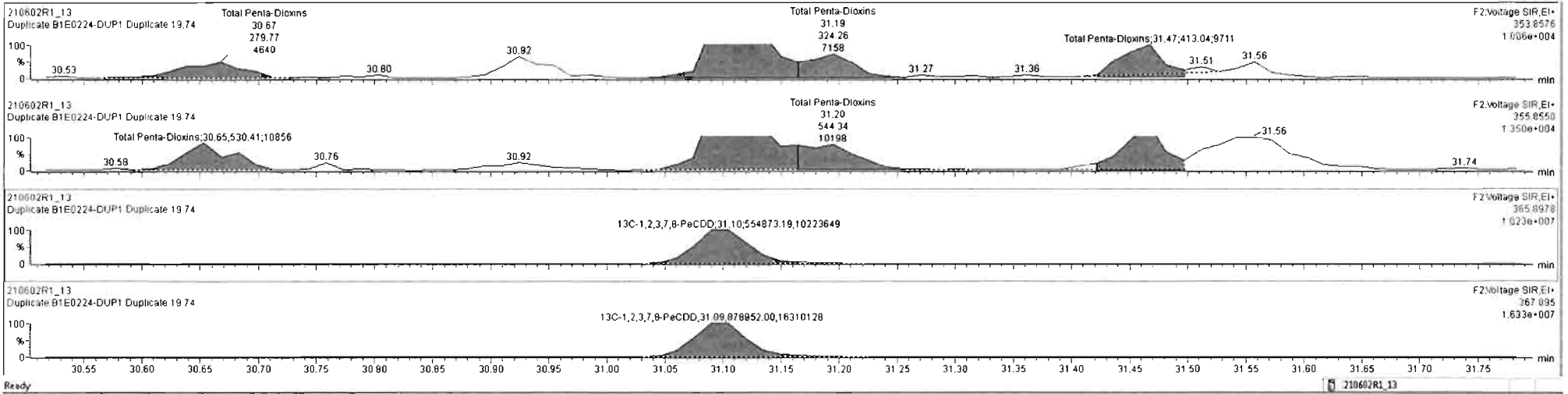
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210602R1_13 - B1E0224-DUP1 Duplicate 19.74 - Duplicate

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.018			3.58		0.0238	4.05
40 Total Penta-Dioxins				0.6257	10.018			4.71		0.0623	5.94
41 Total Hexa-Dioxins				0.8771	10.018			28.7		0.111	28.7
42 Total Hepta-Dioxins				0.8987	10.018			160		0.311	160
43 Total Tetra-Furans				0.7466	10.018			19.5		0.0337	20.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.93	4.143e3	6.591e3	0.63	NO	1.8099	1.8099
2 Total Penta-Dioxins	29.40	1.261e3	1.842e3	0.68	NO	0.52334	0.52334
3 Total Penta-Dioxins	29.90	1.655e3	2.523e3	0.66	NO	0.70456	0.70456
4 Total Penta-Dioxins	30.06	2.566e3	3.978e3	0.65	NO	1.1040	0.00000
5 Total Penta-Dioxins	30.34	1.866e3	2.902e3	0.64	NO	0.80393	0.80393
6 Total Penta-Dioxins	30.67	2.796e2	5.304e2	0.53	YES	0.12206	0.00000
7 1,2,3,7,8-PeCDD	31.12	1.161e3	1.997e3	0.58	NO	0.53251	0.53251
8 Total Penta-Dioxins	31.19	3.243e2	5.443e2	0.60	NO	0.14647	0.14647
9 Total Penta-Dioxins	31.47	4.130e2	7.152e2	0.58	NO	0.19026	0.19026



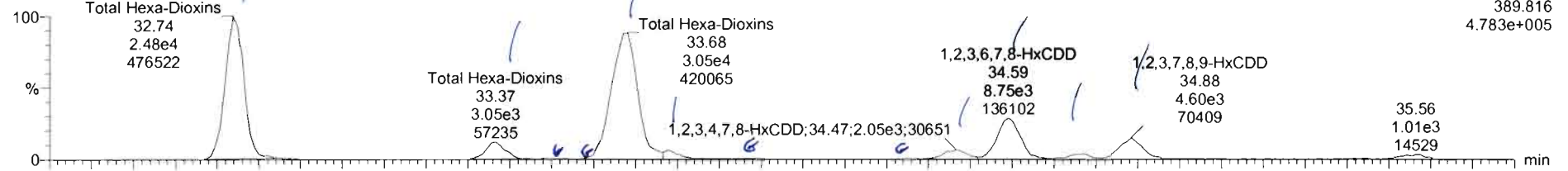
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Printed: Monday, June 21, 2021 15:20:34 Pacific Daylight Time

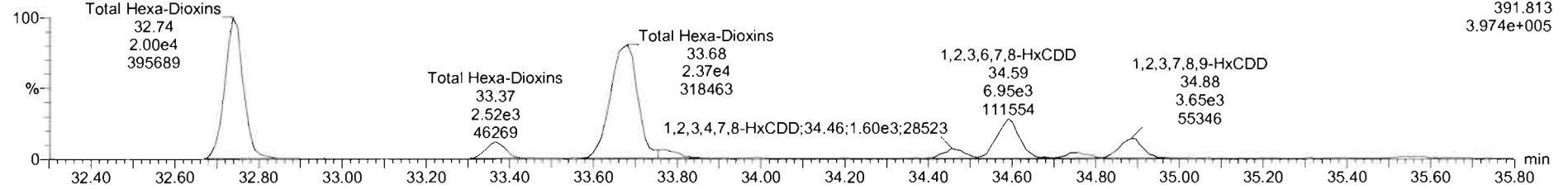
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1,2,3,4,7,8-HxCDD

210602R1_13

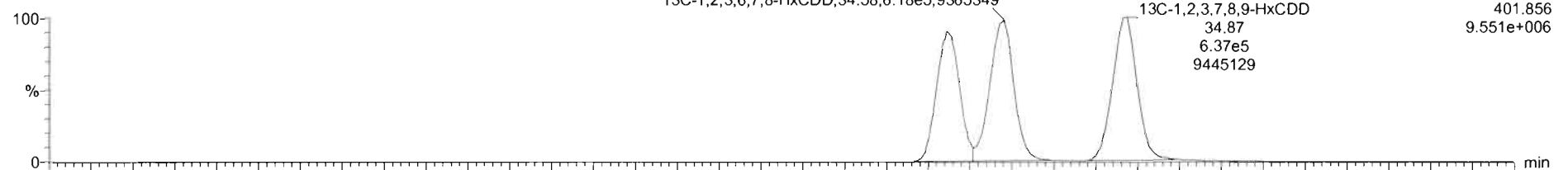


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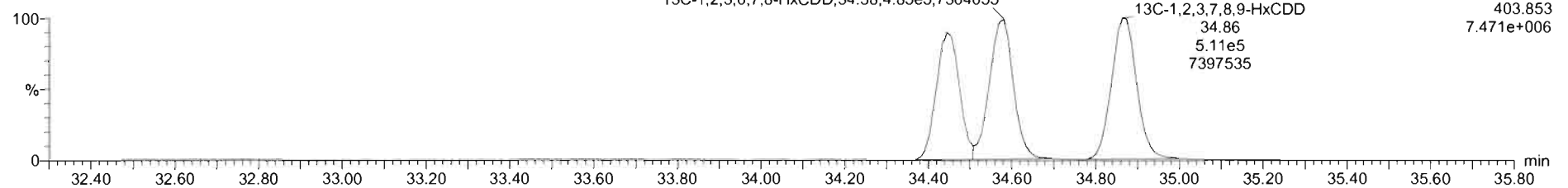


13C-1,2,3,4,7,8-HxCDD

210602R1_13

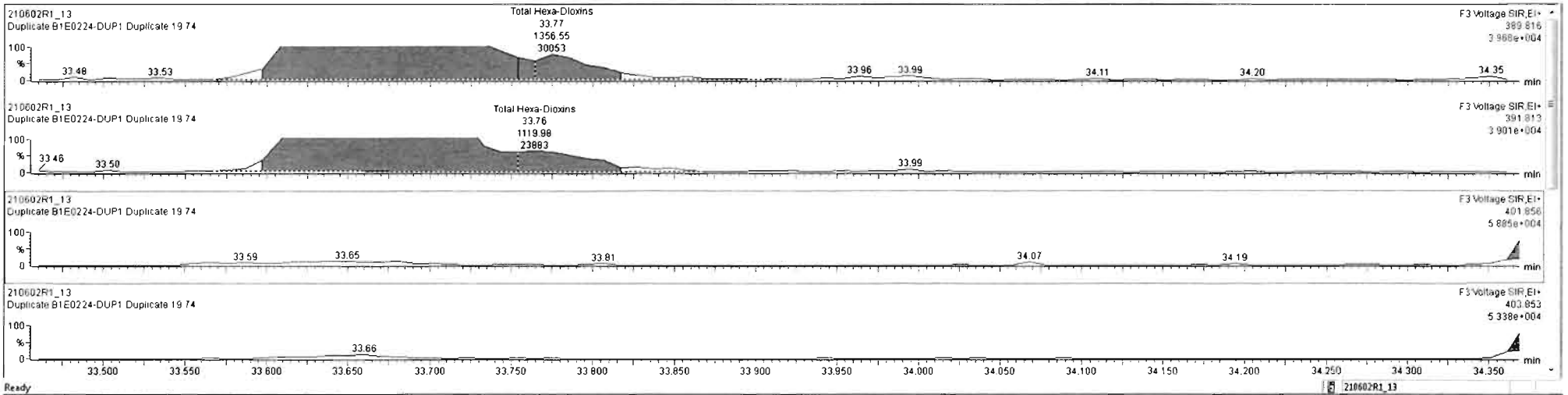


210602R1_13



#	Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9291	10.018			3.56		0.0238	4.05
40	Total Penta-Dioxins				0.8257	10.018			4.71		0.0623	5.94
41	Total Hexa-Dioxins				0.8771	10.018			28.7		0.111	28.7
42	Total Hepta-Dioxins				0.8987	10.018			160		0.311	160
43	Total Tetra-Furens				0.7466	10.018			19.5		0.0337	20.3

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.74	2.483e4	2.001e4	1.24	NO	9.4912	9.4912
2	Total Hexa-Dioxins	33.37	3.048e3	2.519e3	1.21	NO	1.1784	1.1784
3	Total Hexa-Dioxins	33.68	3.013e4	2.359e4	1.26	NO	11.371	11.371
4	Total Hexa-Dioxins	33.77	1.357e3	1.120e3	1.21	NO	0.52424	0.52424
5	1,2,3,4,7,8-HxCDD	34.47	2.049e3	1.603e3	1.26	NO	0.76994	0.76994
6	1,2,3,6,7,8-HxCDD	34.59	8.753e3	6.952e3	1.26	NO	3.2392	3.2392
7	Total Hexa-Dioxins	34.77	1.152e3	1.017e3	1.13	NO	0.45910	0.45910
8	1,2,3,7,8,9-HxCDD	34.88	4.595e3	3.648e3	1.26	NO	1.6397	1.6397



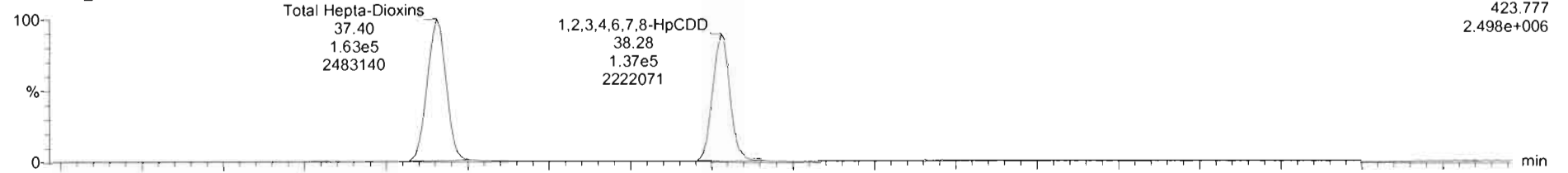
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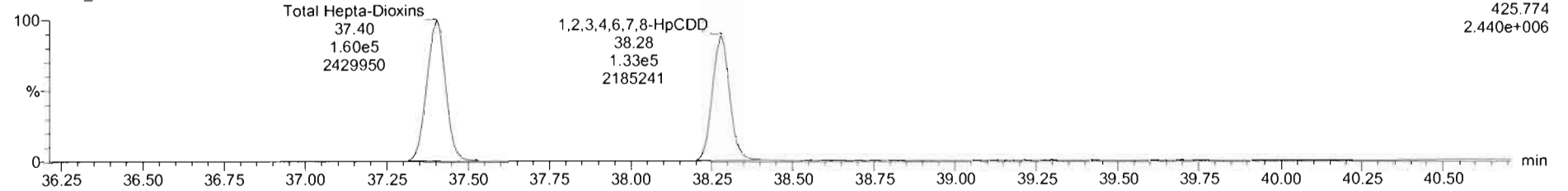
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1,2,3,4,6,7,8-HpCDD

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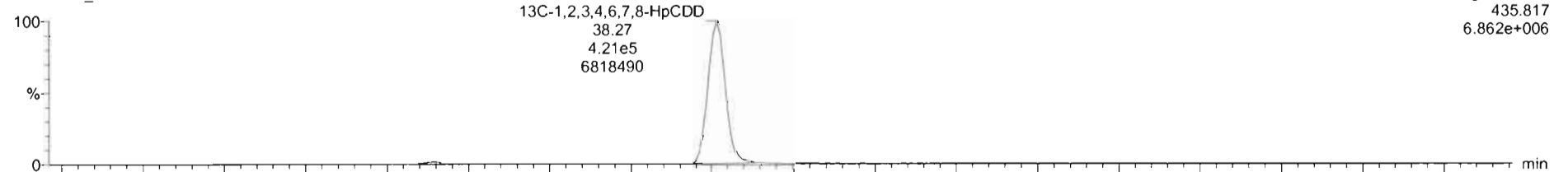


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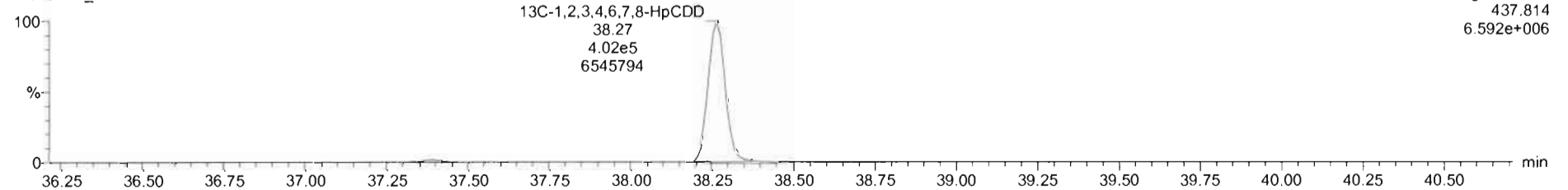


13C-1,2,3,4,6,7,8-HpCDD

210602R1_13



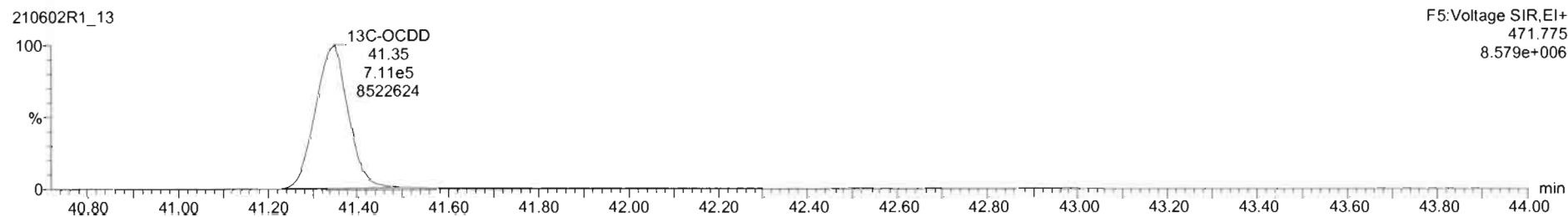
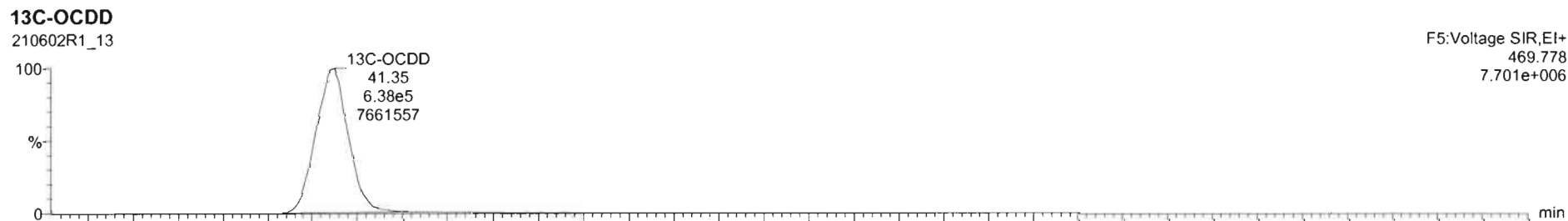
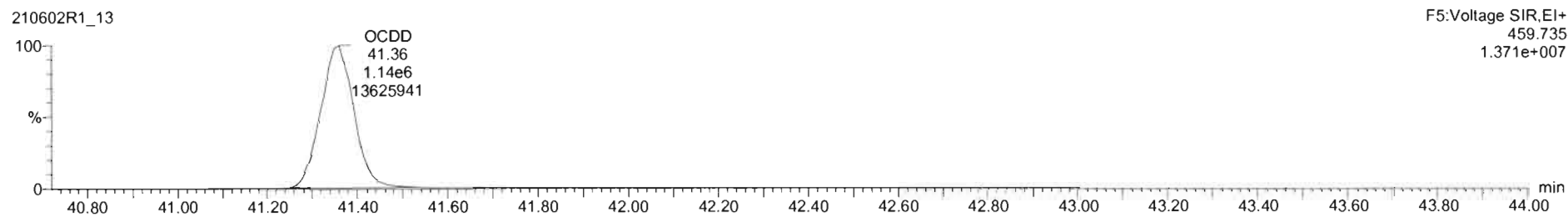
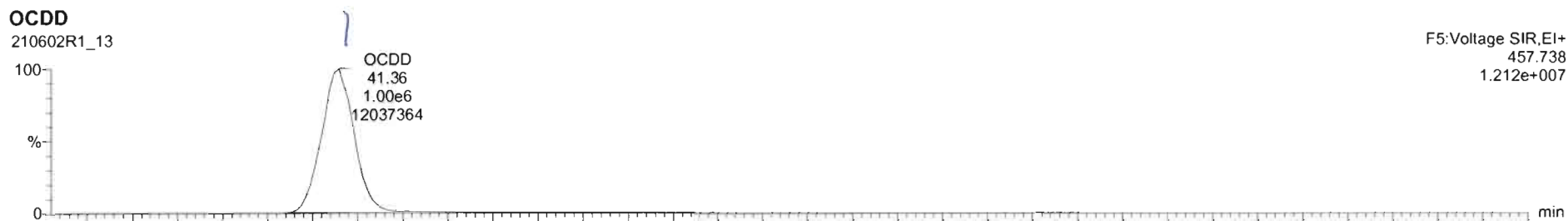
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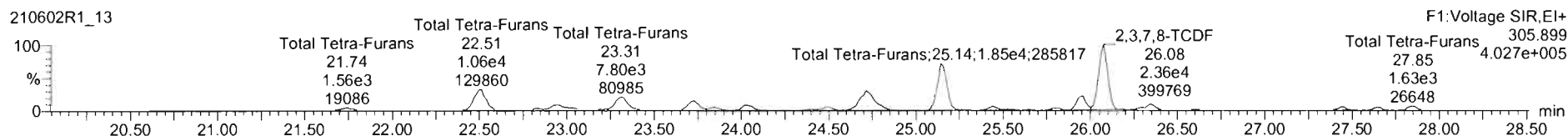
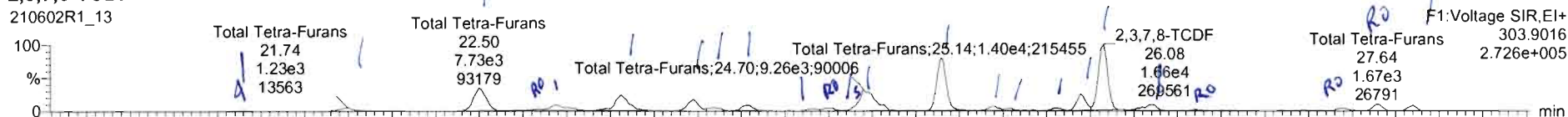


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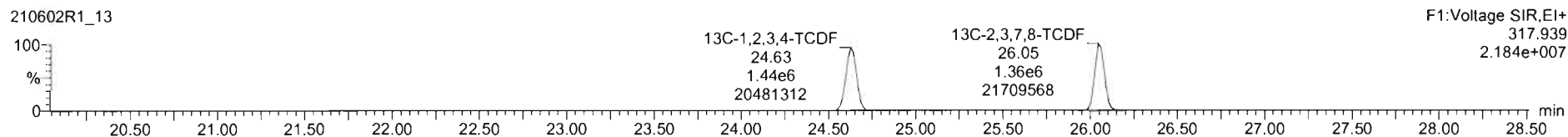
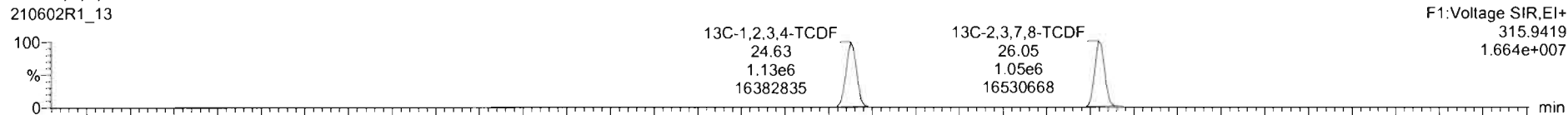
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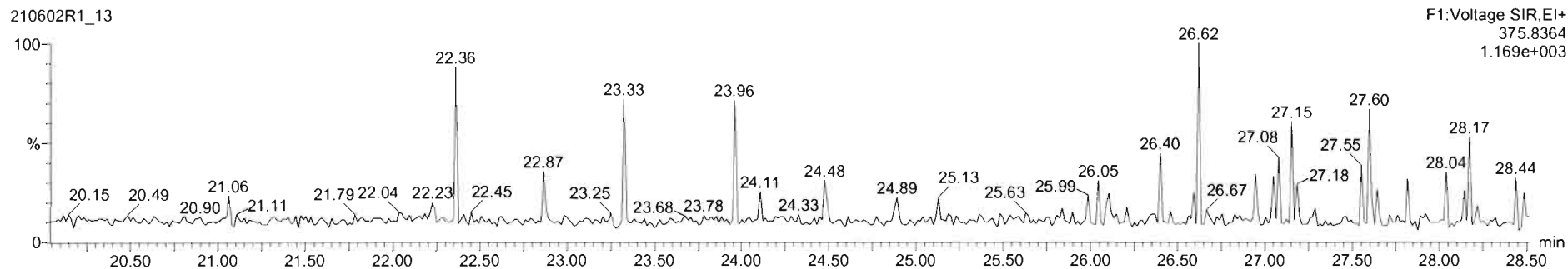
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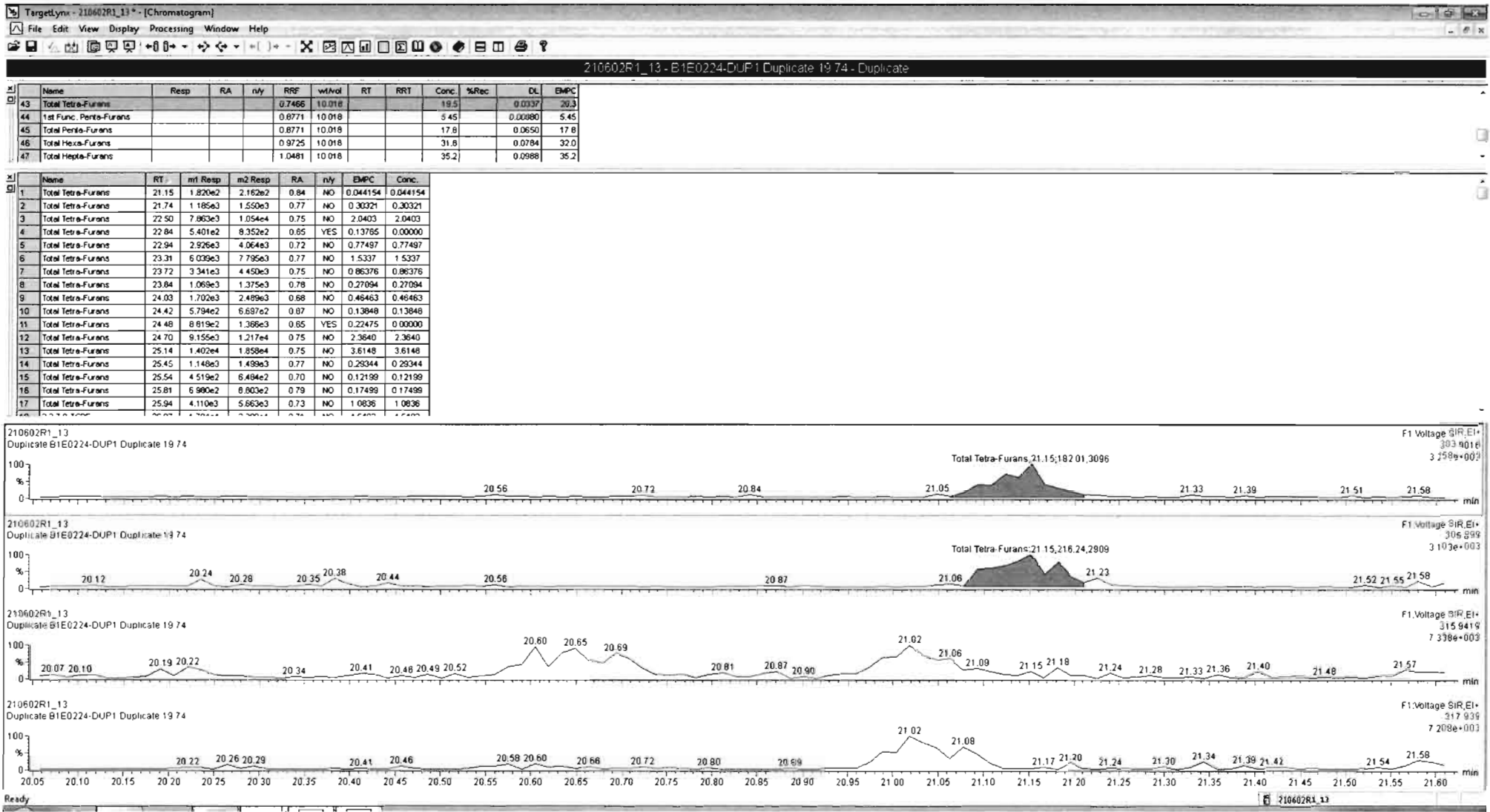


13C-2,3,7,8-TCDF



DPE1

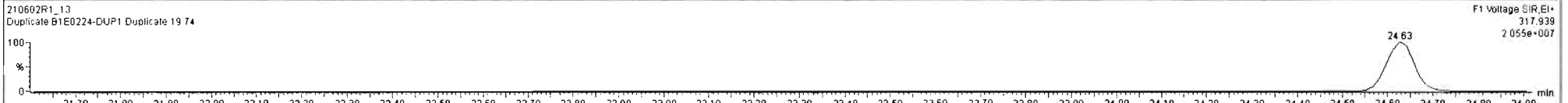
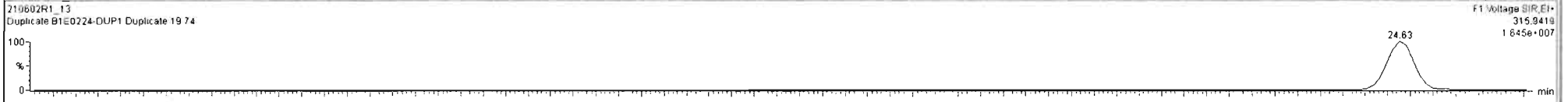
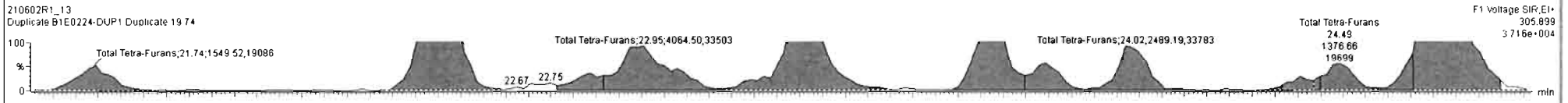
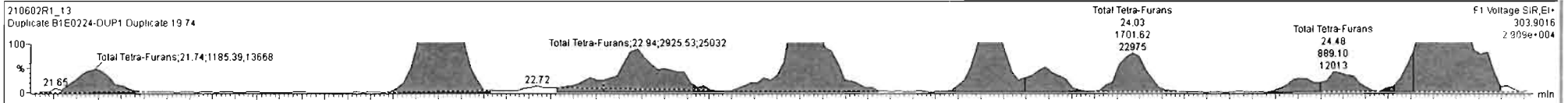




210602R1_13 - B1E0224-DUP1 Duplicate 19.74 - Duplicate

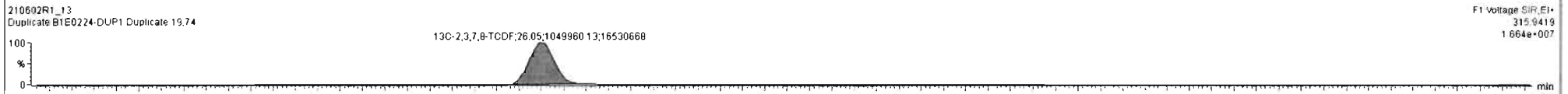
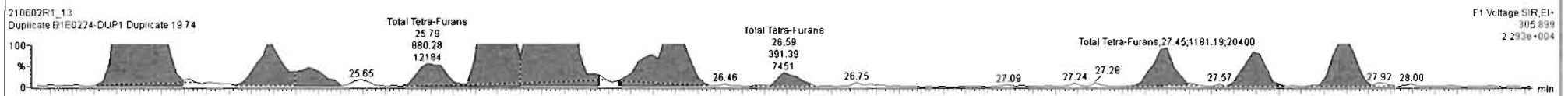
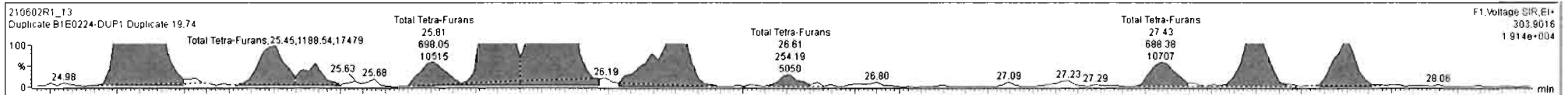
#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.018			17.4		0.0337	20.4
44	1st Func. Penta-Furans				0.8771	10.018			5.45		0.00980	5.45
45	Total Penta-Furans				0.8771	10.018			17.8		0.0650	17.8
46	Total Hexa-Furans				0.9725	10.018			31.6		0.0784	32.0
47	Total Hepta-Furans				1.0481	10.018			35.2		0.0988	35.2

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	21.15	1.820e2	2.162e2	0.84	NO	0.044154	0.044154
2	Total Tetra-Furans	21.74	1.185e3	1.550e3	0.77	NO	0.30321	0.30321
3	Total Tetra-Furans	22.50	7.863e3	1.054e4	0.75	NO	2.0403	2.0403
4	Total Tetra-Furans	22.84	5.401e2	8.352e2	0.65	YES	0.13765	0.00000
5	Total Tetra-Furans	22.94	2.826e3	4.064e3	0.72	NO	0.77497	0.77497
6	Total Tetra-Furans	23.31	6.039e3	7.795e3	0.77	NO	1.5337	1.5337
7	Total Tetra-Furans	23.72	3.341e3	4.450e3	0.75	NO	0.86378	0.86378
8	Total Tetra-Furans	23.84	1.069e3	1.375e3	0.78	NO	0.27094	0.27094
9	Total Tetra-Furans	24.03	1.707e3	2.489e3	0.68	NO	0.48463	0.48463
10	Total Tetra-Furans	24.42	5.794e2	6.687e2	0.67	NO	0.13848	0.13848
11	Total Tetra-Furans	24.48	8.891e2	1.377e3	0.65	YES	0.22659	0.00000
12	Total Tetra-Furans	24.66	5.877e2	7.549e2	0.79	NO	0.14996	0.14996
13	Total Tetra-Furans	24.70	8.627e3	1.143e4	0.75	NO	2.2241	0.00000
14	Total Tetra-Furans	25.14	1.402e4	1.867e4	0.75	NO	3.6250	3.6250



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.018			19.6		0.0337	30.4
44 1st Func. Penta-Furans				0.8771	10.018			5.45		0.00980	5.45
45 Total Penta-Furans				0.8771	10.018			17.8		0.0650	17.8
46 Total Hexa-Furans				0.9725	10.018			31.8		0.0784	32.0
47 Total Hepta-Furans				1.0481	10.018			35.2		0.0988	35.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.15	1.820e2	2.162e2	0.84	NO	0.044154	0.044154
2 Total Tetra-Furans	21.74	1.185e3	1.550e3	0.77	NO	0.30321	0.30321
3 Total Tetra-Furans	22.50	7.863e3	1.054e4	0.75	NO	2.0403	2.0403
4 Total Tetra-Furans	22.84	5.401e2	8.352e2	0.65	YES	0.13765	0.00000
5 Total Tetra-Furans	22.94	2.925e3	4.064e3	0.72	NO	0.77497	0.77497
6 Total Tetra-Furans	23.31	6.039e3	7.795e3	0.77	NO	1.5337	1.5337
7 Total Tetra-Furans	23.72	3.341e3	4.450e3	0.75	NO	0.86376	0.86376
8 Total Tetra-Furans	23.84	1.068e3	1.375e3	0.78	NO	0.27094	0.27094
9 Total Tetra-Furans	24.03	1.702e3	2.489e3	0.68	NO	0.46463	0.46463
10 Total Tetra-Furans	24.42	5.794e2	6.697e2	0.87	NO	0.13848	0.13848
11 Total Tetra-Furans	24.48	8.819e2	1.368e3	0.65	YES	0.22475	0.00000
12 Total Tetra-Furans	24.70	8.155e3	1.217e4	0.75	NO	2.3640	2.3640
13 Total Tetra-Furans	25.14	1.402e4	1.867e4	0.75	NO	3.6250	3.6250
14 Total Tetra-Furans	25.45	1.189e3	1.506e3	0.79	NO	0.29895	0.29895
15 Total Tetra-Furans	25.54	4.995e2	6.484e2	0.77	NO	0.12727	0.12727
16 Total Tetra-Furans	25.81	6.980e2	8.803e2	0.79	NO	0.17489	0.17489



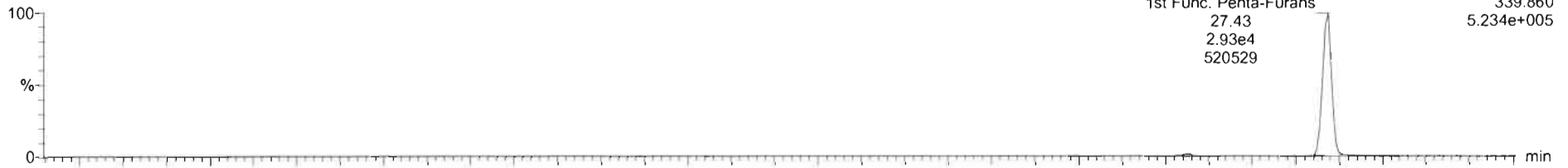
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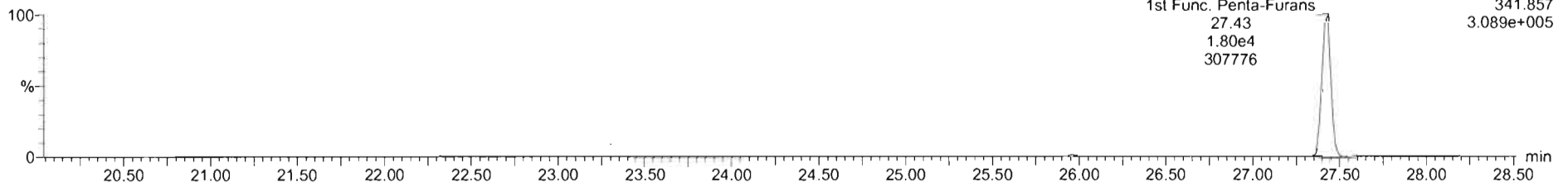
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1st Func. Penta-Furans

210602R1_13

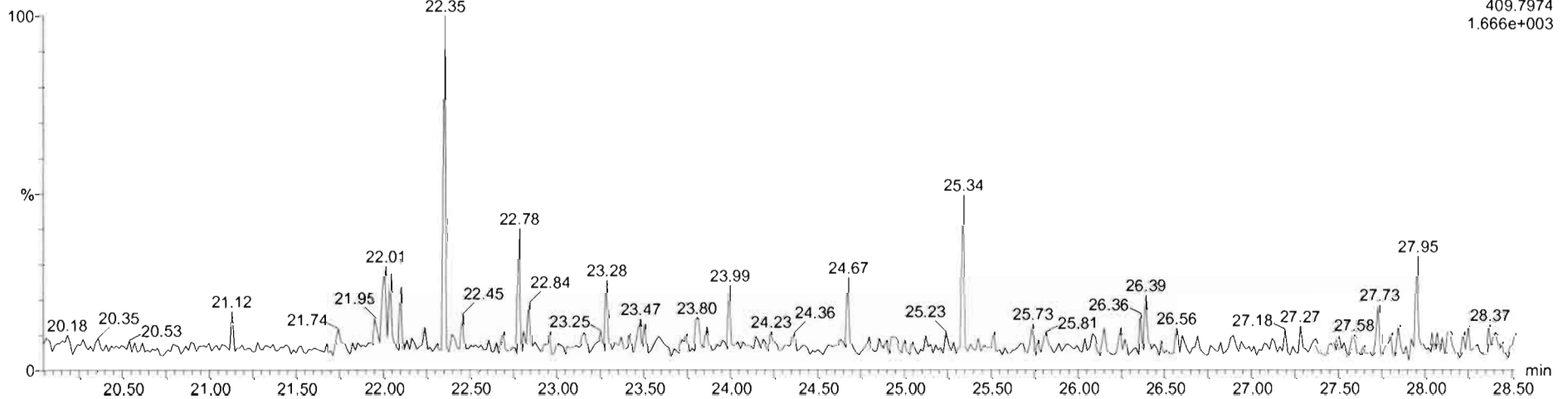


210602R1_13



DPE6

210602R1_13

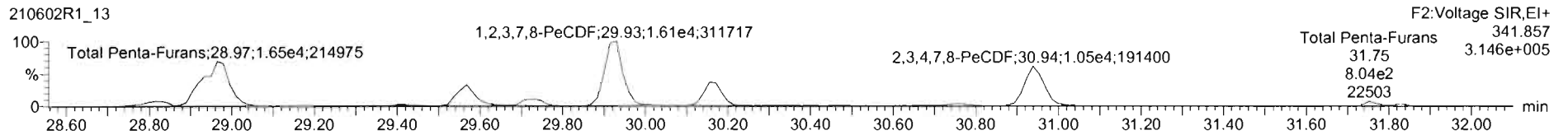
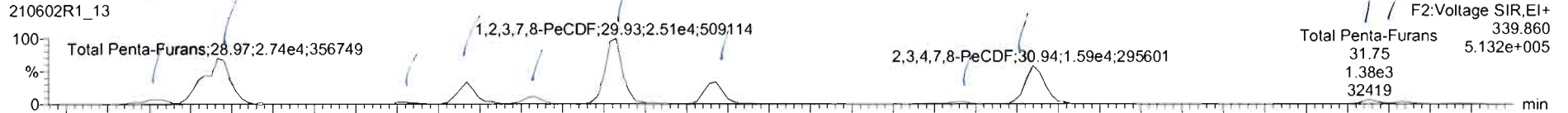


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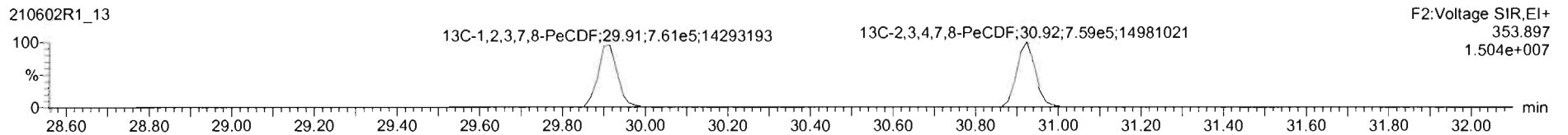
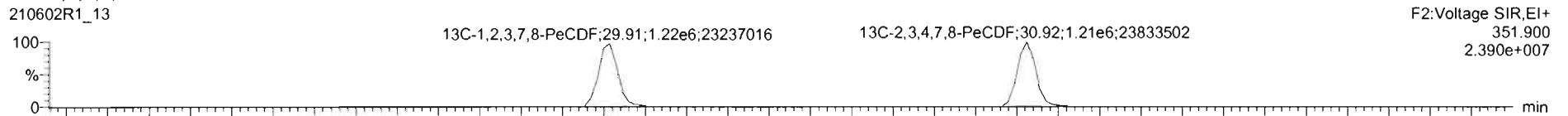
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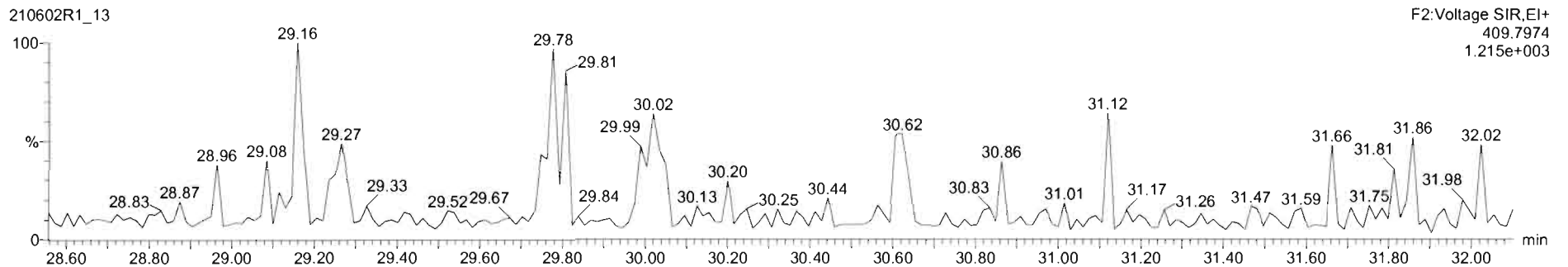
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF

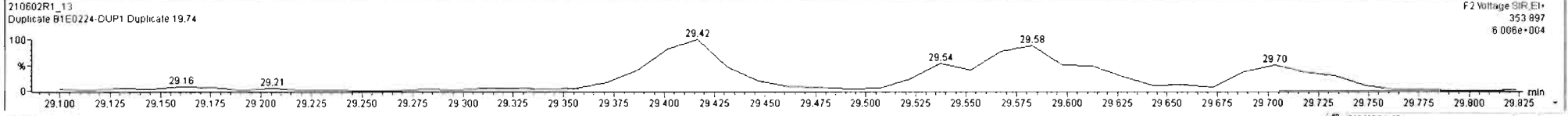
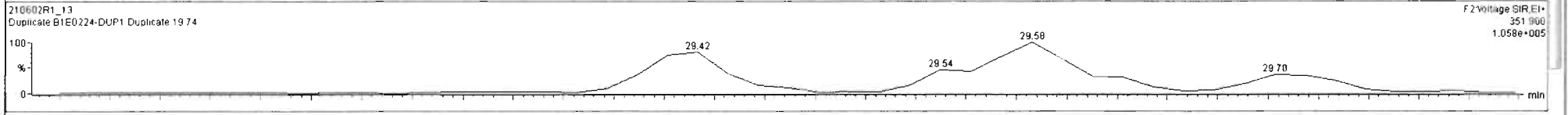
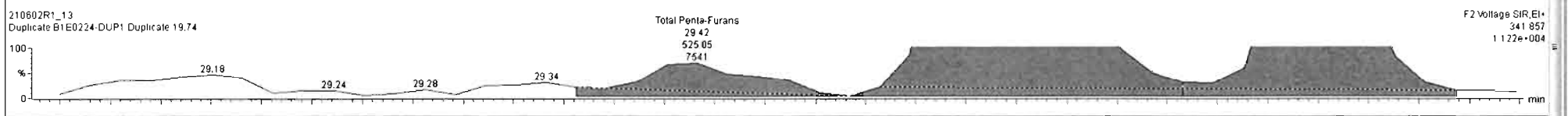
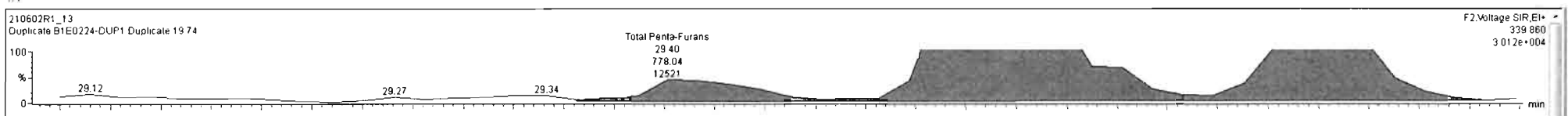


DPE2



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.018			17.4		0.0337	20.4
44 1st Func. Penta-Furans				0.8771	10.018			5.45		0.00990	5.45
45 Total Penta-Furans				0.8771	10.018			17.8		0.0650	17.8
46 Total Hexa-Furans				0.9725	10.018			31.8		0.0784	32.0
47 Total Hepta-Furans				1.0401	10.018			35.2		0.0988	35.2

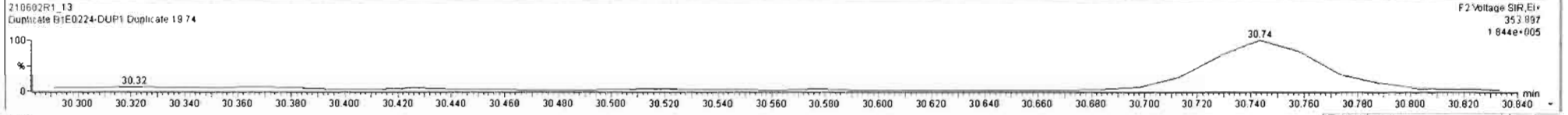
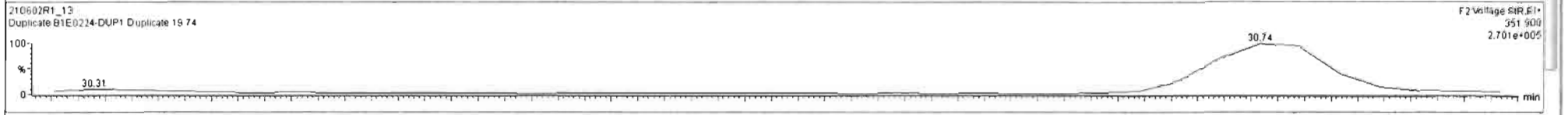
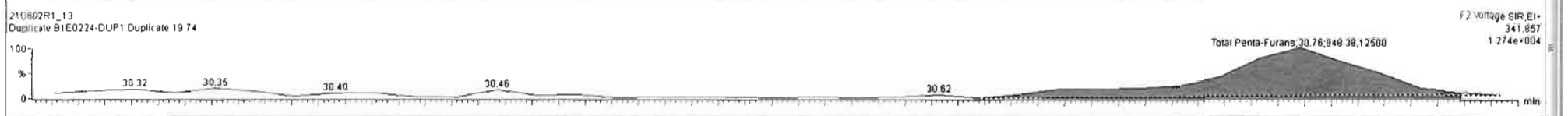
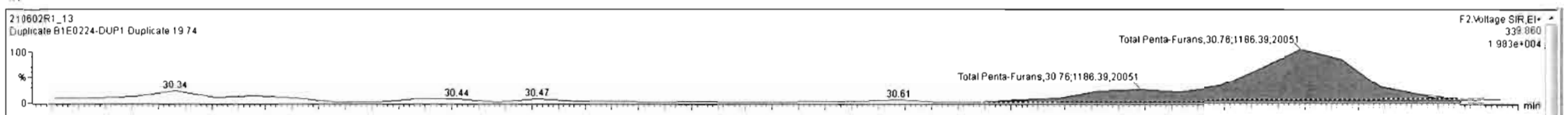
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.81	2.492e3	1.592e3	1.57	NO	0.47044	0.47044
2 Total Penta-Furans	28.97	2.738e4	1.645e4	1.66	NO	5.0490	5.0490
3 Total Penta-Furans	29.40	7.780e2	5.251e2	1.48	NO	0.15010	0.15010
4 Total Penta-Furans	29.57	8.558e3	5.560e3	1.54	NO	1.6262	1.6262
5 Total Penta-Furans	29.73	3.186e3	2.188e3	1.47	NO	0.61667	0.61667
6 1,2,3,7,8-PeCDF	29.93	2.508e4	1.612e4	1.56	NO	4.7279	4.7279
7 Total Penta-Furans	30.17	9.231e3	5.809e3	1.59	NO	1.7324	1.7324
8 Total Penta-Furans	30.76	1.186e3	8.494e2	1.40	NO	0.23437	0.23437
9 2,3,4,7,8-PeCDF	30.94	1.592e4	1.049e4	1.52	NO	2.7834	2.7834
10 Total Penta-Furans	31.75	1.363e3	8.038e2	1.72	NO	0.25189	0.25189
11 Total Penta-Furans	31.83	7.916e2	4.543e2	1.74	NO	0.14351	0.14351



210602R1_13 - B1E0224-DUP1 Duplicate 19.74 - Duplicate

#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.018			17.4		0.0337	20.4
44	1st Func. Penta-Furans				0.8771	10.018			5.45		0.00980	5.45
45	Total Penta-Furans				0.8771	10.018			17.8		0.0650	17.8
46	Total Hexa-Furans				0.9725	10.018			31.8		0.0704	32.0
47	Total Hepta-Furans				1.0481	10.018			35.2		0.0988	35.2

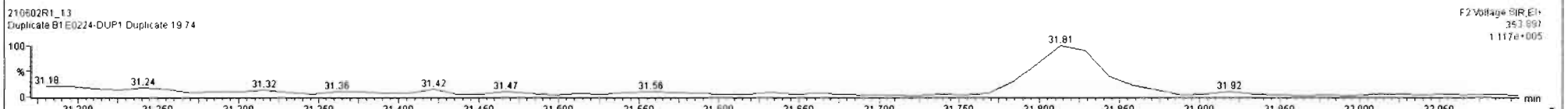
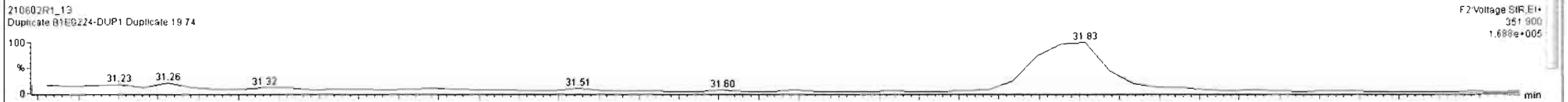
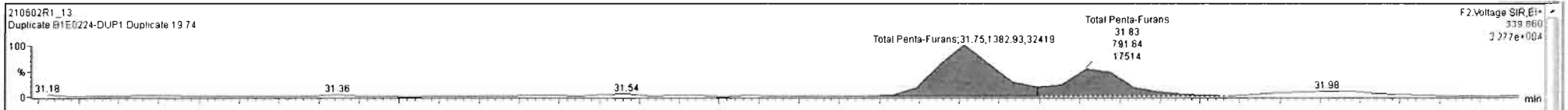
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.81	2.492e3	1.592e3	1.57	NO	0.47044	0.47044
2	Total Penta-Furans	28.97	2.738e4	1.645e4	1.66	NO	5.0490	5.0490
3	Total Penta-Furans	29.40	7.780e2	5.251e2	1.48	NO	0.15010	0.15010
4	Total Penta-Furans	29.57	8.550e3	5.560e3	1.54	NO	1.6262	1.6262
5	Total Penta-Furans	29.73	3.186e3	2.168e3	1.47	NO	0.61667	0.61667
6	1,2,3,7,8-PeCDF	29.93	2.508e4	1.612e4	1.56	NO	4.7279	4.7279
7	Total Penta-Furans	30.17	9.231e3	5.909e3	1.59	NO	1.7324	1.7324
8	Total Penta-Furans	30.76	1.186e3	8.484e2	1.40	NO	0.23437	0.23437
9	2,3,4,7,8-PeCDF	30.94	1.592e4	1.049e4	1.52	NO	2.7834	2.7834
10	Total Penta-Furans	31.75	1.383e3	8.038e2	1.72	NO	0.25188	0.25188
11	Total Penta-Furans	31.83	7.916e2	4.543e2	1.74	NO	0.14351	0.14351



210602R1_13 - B1E0224-DUP1 Duplicate 19.74 - Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.018			17.4		0.0337	20.4
44	1st Func. Penta-Furans				0.8771	10.018			5.45		0.00980	5.45
45	Total Penta-Furans				0.8771	10.018			17.9		0.0650	17.9
46	Total Hexa-Furans				0.9725	10.018			31.8		0.0794	32.0
47	Total Hepta-Furans				1.0481	10.018			35.2		0.0988	35.2

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.81	2.492e3	1.592e3	1.57	NO	0.47044	0.47044
2	Total Penta-Furans	28.97	2.738e4	1.645e4	1.66	NO	5.0490	5.0490
3	Total Penta-Furans	29.40	7.780e2	5.251e2	1.48	NO	0.15010	0.15010
4	Total Penta-Furans	29.57	8.558e3	5.560e3	1.54	NO	1.6262	1.6262
5	Total Penta-Furans	29.73	3.186e3	2.168e3	1.47	NO	0.61667	0.61667
6	1,2,3,7,8-PeCDF	29.93	2.506e4	1.612e4	1.56	NO	4.7279	4.7279
7	Total Penta-Furans	30.17	9.231e3	5.809e3	1.59	NO	1.7324	1.7324
8	Total Penta-Furans	30.76	1.186e3	8.484e2	1.40	NO	0.23437	0.23437
9	2,3,4,7,8-PeCDF	30.94	1.592e4	1.049e4	1.52	NO	2.7834	2.7834
10	Total Penta-Furans	31.75	1.363e3	8.036e2	1.72	NO	0.25188	0.25188
11	Total Penta-Furans	31.83	7.916e2	4.543e2	1.74	NO	0.14351	0.14351

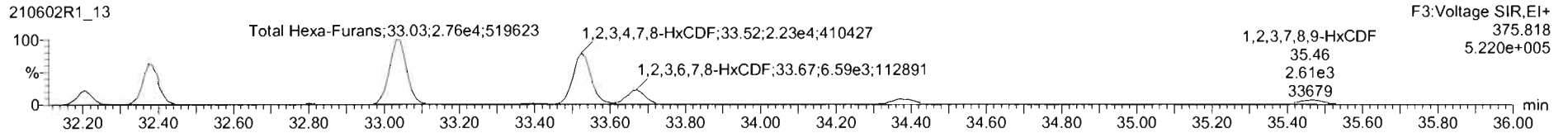
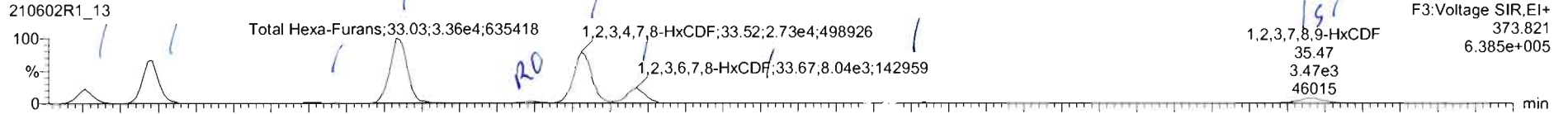


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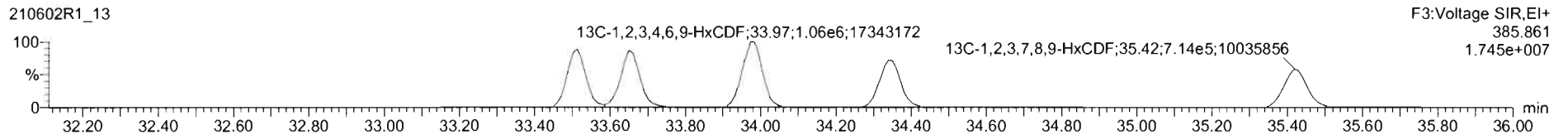
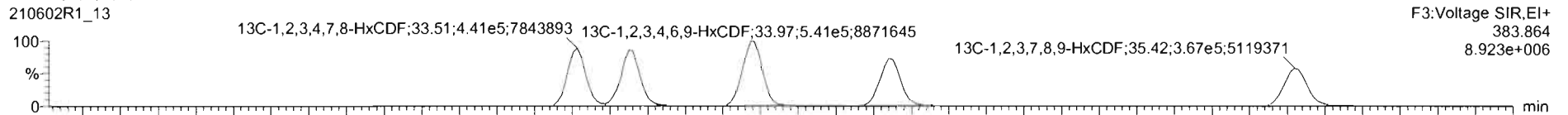
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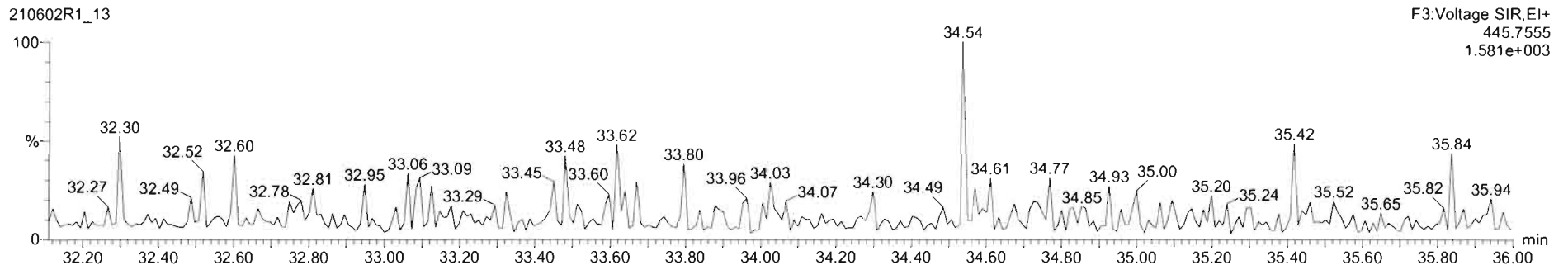
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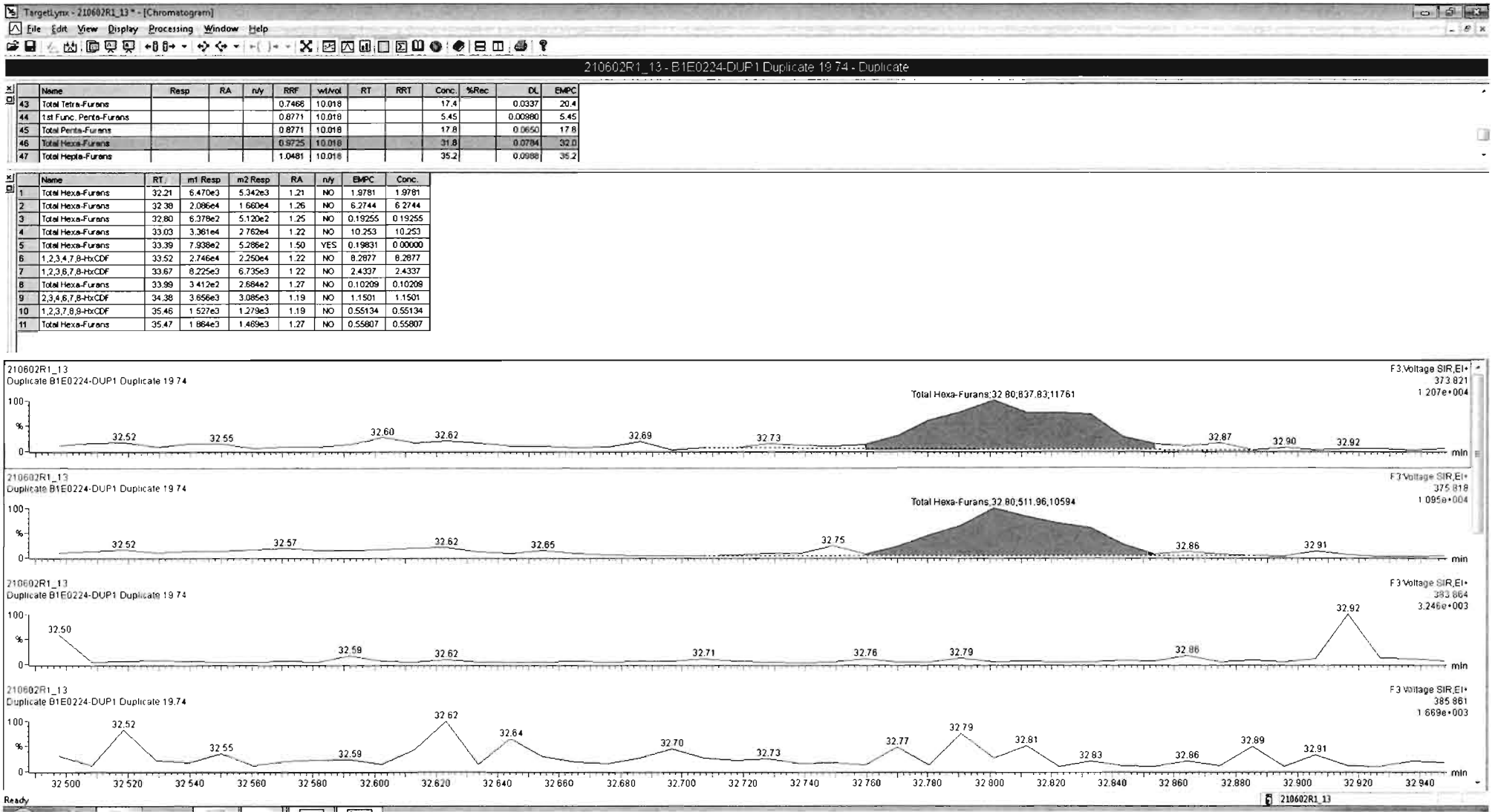


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DPE3

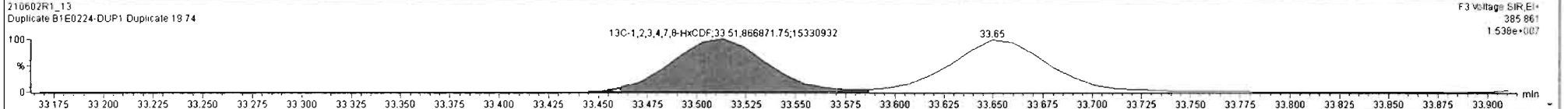
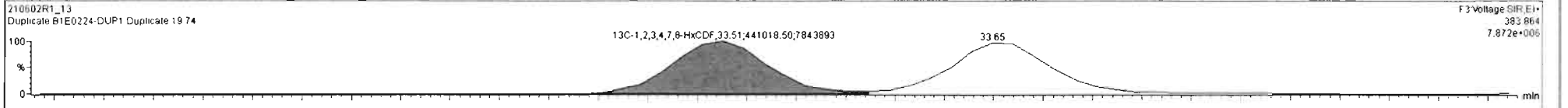
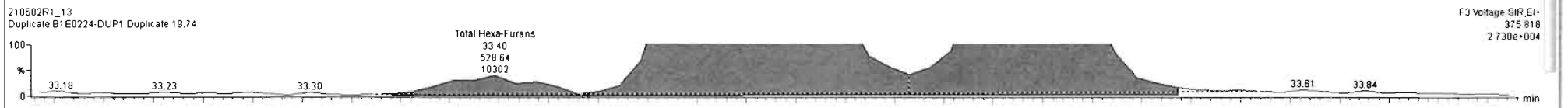
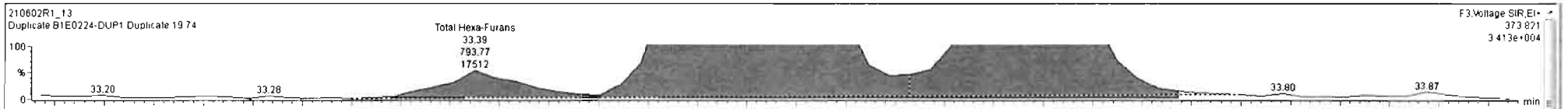




210602R1_13 - B1E0224-DUF1 Duplicate 19 74 - Duplicate

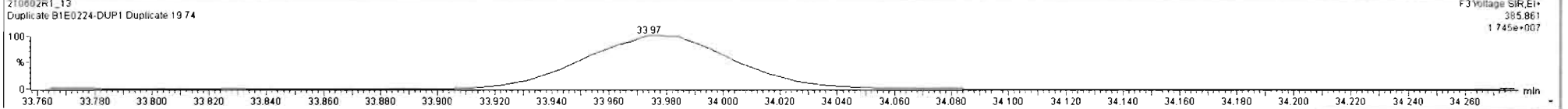
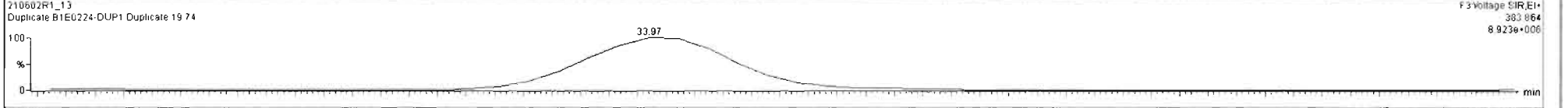
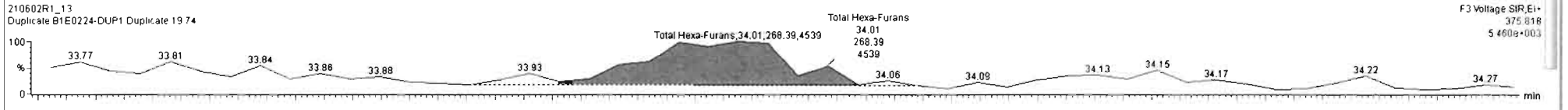
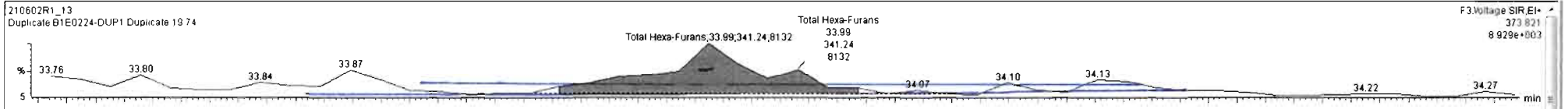
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.018			17.4	0.0337	20.4	
44 1st Func. Penta-Furans				0.8771	10.018			5.45	0.00990	5.45	
45 Total Penta-Furans				0.8771	10.018			17.8	0.0650	17.8	
46 Total Hexa-Furans				0.9725	10.018			31.8	0.0784	32.0	
47 Total Hepta-Furans				1.0481	10.018			35.2	0.0988	35.2	

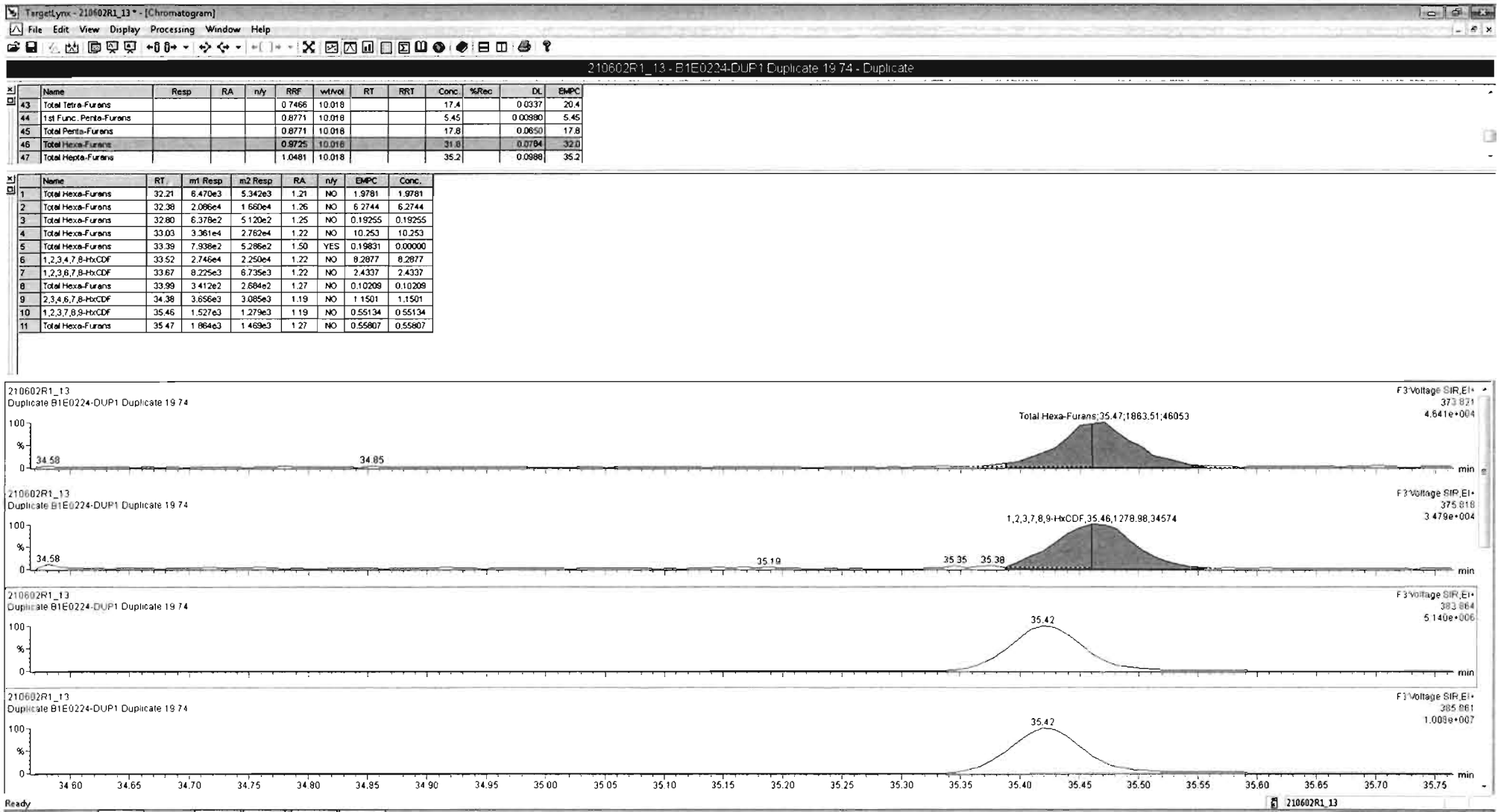
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.21	6.470e3	5.342e3	1.21	NO	1.9781	1.9781
2 Total Hexa-Furans	32.38	2.086e4	1.680e4	1.26	NO	6.2744	6.2744
3 Total Hexa-Furans	32.80	6.378e2	5.120e2	1.25	NO	0.19255	0.19255
4 Total Hexa-Furans	33.03	3.361e4	2.762e4	1.22	NO	10.253	10.253
5 Total Hexa-Furans	33.39	7.938e2	5.286e2	1.50	YES	0.19831	0.00000
6 1,2,3,4,7,8-HxCDF	33.52	2.746e4	2.250e4	1.22	NO	8.2877	8.2877
7 1,2,3,6,7,8-HxCDF	33.67	8.225e3	6.735e3	1.22	NO	2.4337	2.4337
8 Total Hexa-Furans	33.99	3.412e2	2.884e2	1.27	NO	0.10209	0.10209
9 2,3,4,6,7,8-HxCDF	34.38	3.656e3	3.085e3	1.19	NO	1.1501	1.1501
10 1,2,3,7,8,9-HxCDF	35.46	1.527e3	1.279e3	1.19	NO	0.55134	0.55134
11 Total Hexa-Furans	35.47	1.864e3	1.469e3	1.27	NO	0.55907	0.55907



#	Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.018			17.4		0.0337	20.4
44	1st Func. Penta-Furans				0.8771	10.018			5.45		0.00880	5.45
45	Total Penta-Furans				0.8771	10.018			17.8		0.0650	17.8
46	Total Hexa-Furans				0.9725	10.018			31.8		0.0794	32.0
47	Total Hepta-Furans				1.0481	10.018			35.2		0.0686	35.2

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.21	8.470e3	5.342e3	1.21	NO	1.9781	1.9781
2	Total Hexa-Furans	32.38	2.086e4	1.660e4	1.26	NO	6.2744	6.2744
3	Total Hexa-Furans	32.80	6.378e2	5.120e2	1.25	NO	0.19255	0.19255
4	Total Hexa-Furans	33.03	3.361e4	2.762e4	1.22	NO	10.253	10.253
5	Total Hexa-Furans	33.39	7.938e2	5.286e2	1.50	YES	0.19831	0.00000
6	1,2,3,4,7,8-HxCDF	33.52	2.746e4	2.250e4	1.22	NO	8.2877	8.2877
7	1,2,3,6,7,8-HxCDF	33.67	8.225e3	6.735e3	1.22	NO	2.4337	2.4337
8	Total Hexa-Furans	33.99	3.412e2	2.684e2	1.27	NO	0.10208	0.10208
9	2,3,4,6,7,8-HxCDF	34.38	3.856e3	3.085e3	1.19	NO	1.1501	1.1501
10	1,2,3,7,8,9-HxCDF	35.46	1.527e3	1.279e3	1.19	NO	0.55134	0.55134
11	Total Hexa-Furans	35.47	1.864e3	1.469e3	1.27	NO	0.55807	0.55807





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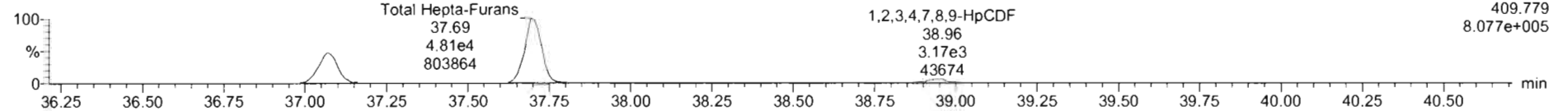
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210602R1_13

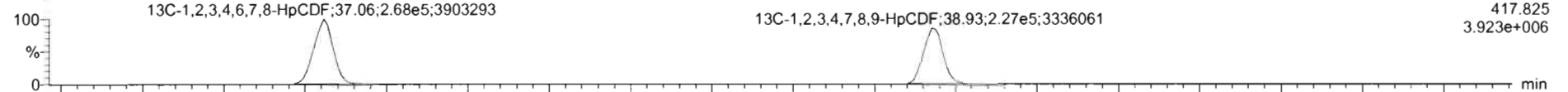


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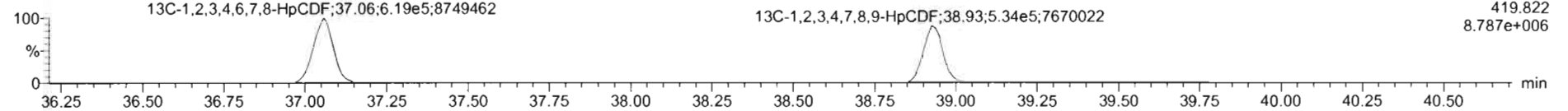


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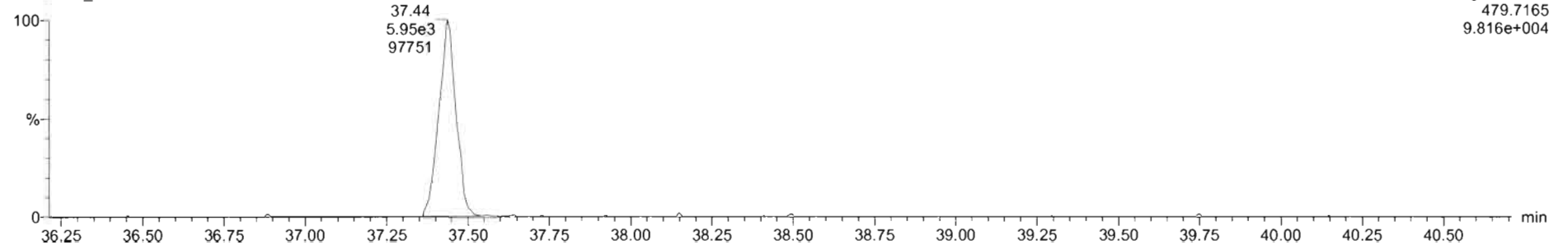


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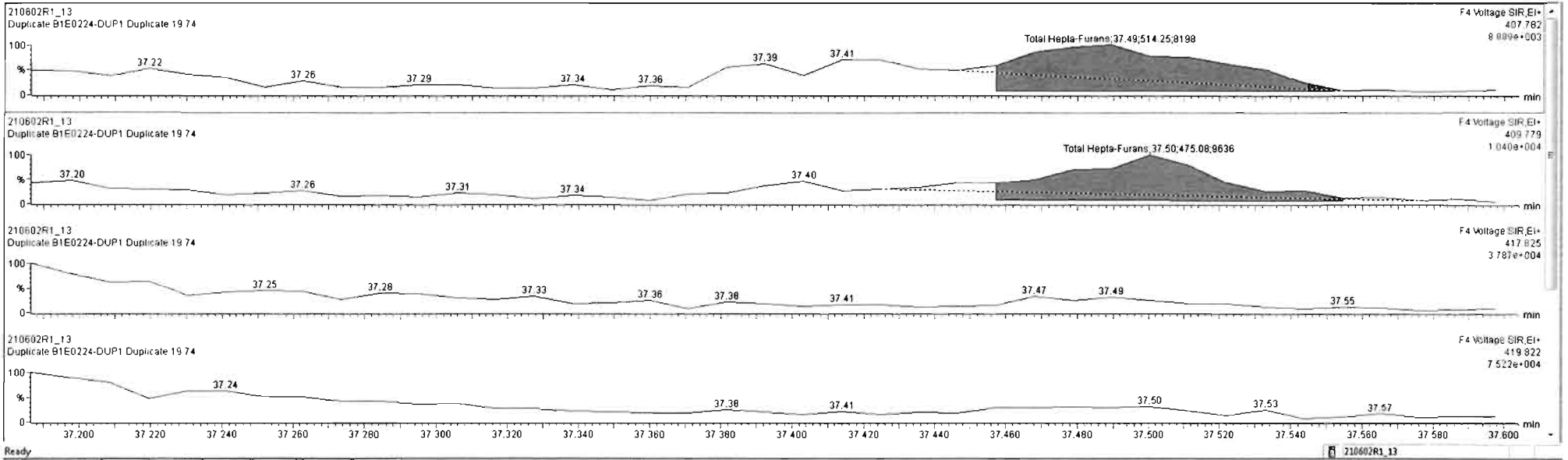
DPE4

210602R1_13



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.018			17.4		0.0337	20.4
44 1st Func. Penta-Furans				0.8771	10.018			5.45		0.00880	5.45
45 Total Penta-Furans				0.8771	10.018			17.8		0.0650	17.8
46 Total Hexa-Furans				0.9725	10.018			31.8		0.0784	32.0
47 Total Hepta-Furans				1.0461	10.018			35.2		0.0986	35.2

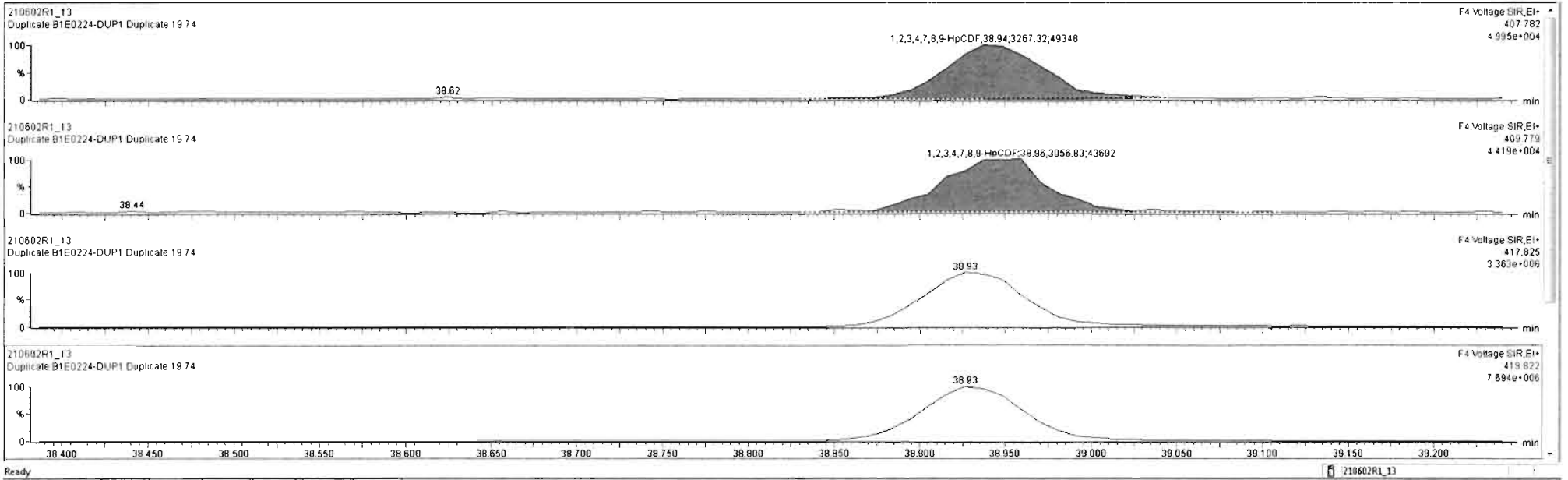
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.06	2.808e4	2.595e4	1.01	NO	11.161	11.161
2 Total Hepta-Furans	37.49	5.142e2	4.751e2	1.06	NO	0.22866	0.22866
3 Total Hepta-Furans	37.71	4.789e4	4.813e4	1.00	NO	22.192	22.192
4 1,2,3,4,7,8,9-HpCDF	38.84	3.267e3	3.057e3	1.07	NO	1.5883	1.5883



210602R1_13 - B1E0224-DUP1 Duplicate 19 74 - Duplicate

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.018			17.4	0.0337	20.4	
44 1st Func. Penta-Furans				0.8771	10.018			5.45	0.00980	5.45	
45 Total Penta-Furans				0.8771	10.018			17.8	0.0650	17.8	
46 Total Hexa-Furans				0.9725	10.018			31.8	0.0784	32.0	
47 Total Hepta-Furans				1.0481	10.018			35.2	0.0998	35.2	

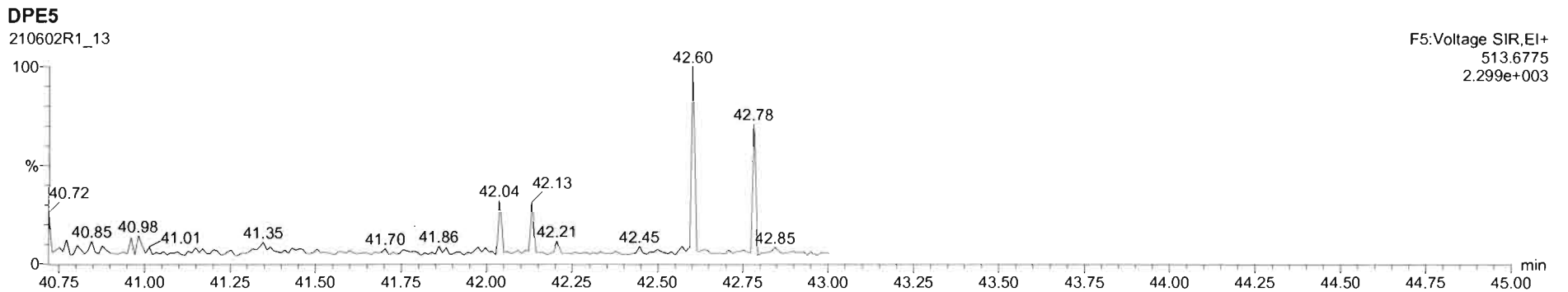
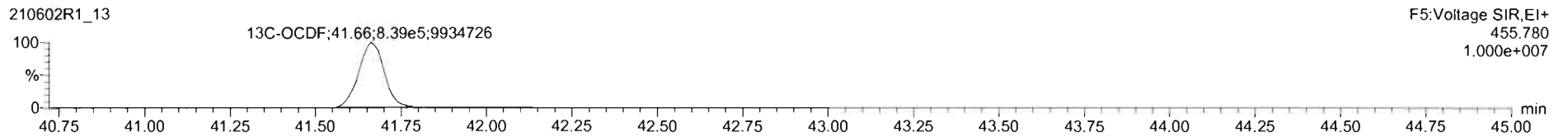
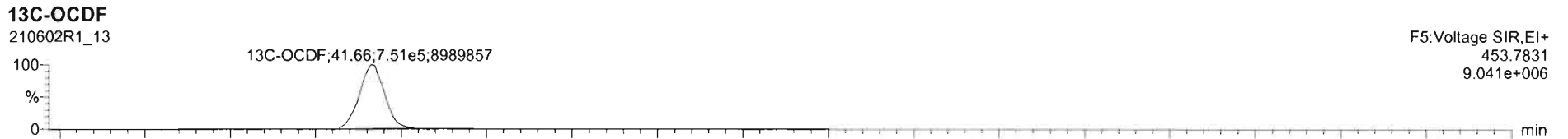
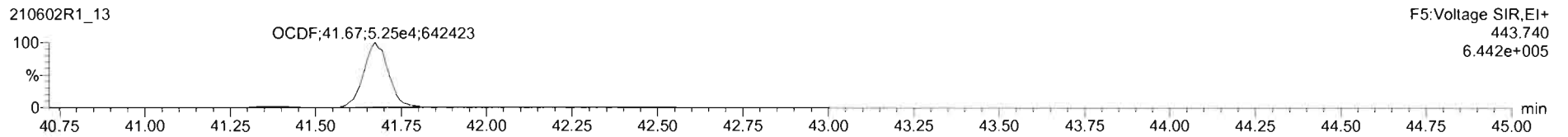
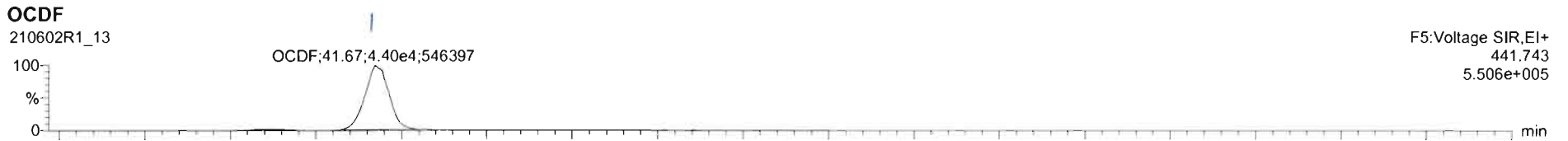
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1 1,2,3,4,6,7,8-HpCDF	37.08	2.808e4	2.595e4	1.01	NO	11.161	11.161
2 Total Hexa-Furans	37.49	5.142e2	4.751e2	1.08	NO	0.22866	0.22866
3 Total Hepta-Furans	37.71	4.789e4	4.813e4	1.00	NO	22.192	22.192
4 1,2,3,4,7,8,9-HpCDF	38.94	3.267e3	3.057e3	1.07	NO	1.5883	1.5883



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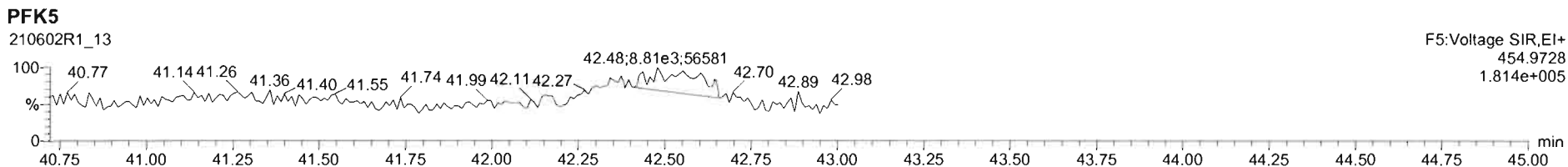
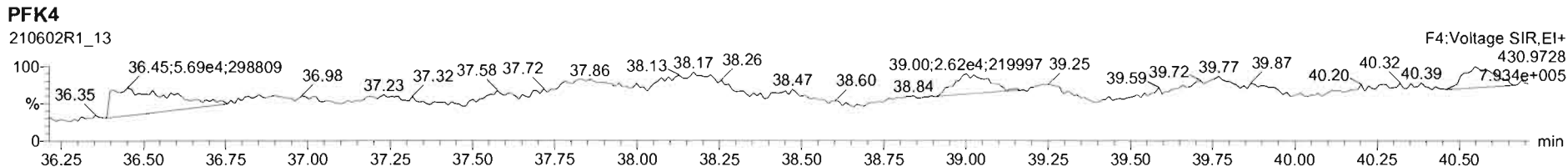
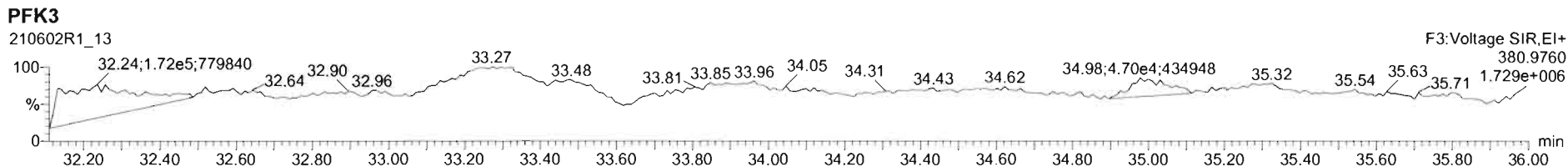
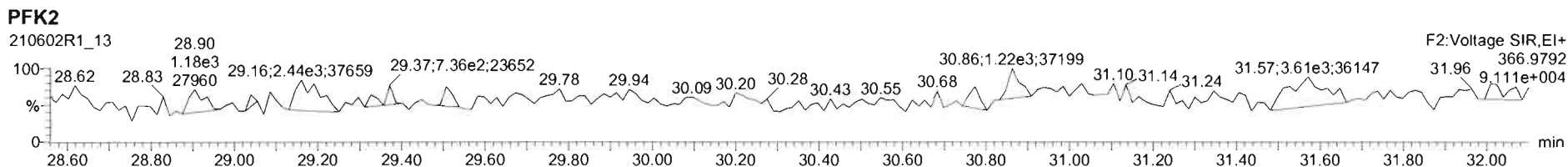
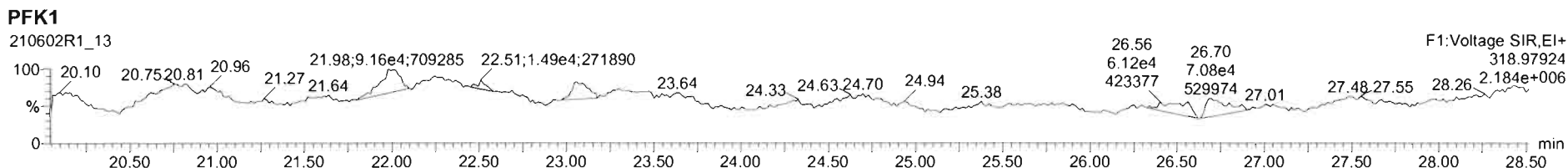
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Printed: Monday, June 21, 2021 15:20:34 Pacific Daylight Time

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Printed: Wednesday, June 23, 2021 12:53:16 Pacific Daylight Time

J#06/23/21

CT 06/23/2021

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

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	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.90e3	0.52	YES	0.929	9.999	26.70	1.001	0.79070		0.0148	0.619
2	1,2,3,7,8-PeCDD	1.11e4	0.61	NO	0.826	9.999	31.12	1.000	1.5242		0.0489	1.52
3	1,2,3,4,7,8-HxCDD	1.17e4	1.21	NO	0.972	9.999	34.49	1.001	1.9531		0.123	1.95
4	1,2,3,6,7,8-HxCDD	9.32e4	1.29	NO	0.877	9.999	34.61	1.001	15.356		0.125	15.4
5	1,2,3,7,8,9-HxCDD	3.78e4	1.26	NO	0.874	9.999	34.90	1.000	6.1502		0.129	6.15
6	1,2,3,4,6,7,8-HpCDD	1.42e6	1.03	NO	0.899	9.999	38.30	1.001	300.33		0.588	300
7	OCDD	1.29e7	0.89	NO	0.852	9.999	41.39	1.000	3329.3		0.841	3330
8	2,3,7,8-TCDF	1.04e5	0.73	NO	0.747	9.999	26.09	1.001	8.8655		0.0323	8.87
9	1,2,3,7,8-PeCDF	1.99e5	1.59	NO	0.877	9.999	29.93	1.001	18.403		0.0788	18.4
10	2,3,4,7,8-PeCDF	9.76e4	1.58	NO	0.962	9.999	30.95	1.001	8.5506		0.0730	8.55
11	1,2,3,4,7,8-HxCDF	4.75e5	1.21	NO	0.920	9.999	33.54	1.001	63.306		0.0866	63.3
12	1,2,3,6,7,8-HxCDF	1.18e5	1.24	NO	0.936	9.999	33.69	1.001	17.959		0.101	18.0
13	2,3,4,6,7,8-HxCDF	3.15e4	1.28	NO	0.973	9.999	34.40	1.001	4.2893		0.0900	4.29
14	1,2,3,7,8,9-HxCDF	1.52e4	1.26	NO	0.940	9.999	35.47	1.001	2.3794		0.117	2.38
15	1,2,3,4,6,7,8-HpCDF	4.97e5	1.01	NO	1.05	9.999	37.08	1.000	88.855		0.167	88.9
16	1,2,3,4,7,8,9-HpCDF	5.60e4	1.00	NO	1.05	9.999	38.96	1.001	11.689		0.185	11.7
17	OCDF	6.37e5	0.86	NO	0.771	9.999	41.72	1.001	165.03		0.266	165
18	13C-2,3,7,8-TCDD	2.42e6	0.77	NO	1.10	9.999	26.68	1.027	227.20	114	0.0614	
19	13C-1,2,3,7,8-PeCDD	1.76e6	0.63	NO	0.864	9.999	31.10	1.198	211.04	106	0.0929	
20	13C-1,2,3,4,7,8-HxCDD	1.23e6	1.28	NO	0.746	9.999	34.47	1.014	175.33	87.7	0.227	
21	13C-1,2,3,6,7,8-HxCDD	1.38e6	1.27	NO	0.847	9.999	34.59	1.018	173.87	86.9	0.200	
22	13C-1,2,3,7,8,9-HxCDD	1.41e6	1.26	NO	0.868	9.999	34.88	1.026	172.55	86.3	0.195	
23	13C-1,2,3,4,6,7,8-HpCDD	1.05e6	1.06	NO	0.664	9.999	38.28	1.126	168.93	84.5	0.259	
24	13C-OCDD	1.82e6	0.89	NO	0.561	9.999	41.38	1.217	344.86	86.2	0.434	
25	13C-2,3,7,8-TCDF	3.15e6	0.78	NO	1.09	9.999	26.06	1.003	189.14	94.6	0.0601	
26	13C-1,2,3,7,8-PeCDF	2.47e6	1.58	NO	0.809	9.999	29.91	1.152	200.26	100	0.220	
27	13C-2,3,4,7,8-PeCDF	2.37e6	1.59	NO	0.803	9.999	30.92	1.191	194.26	97.1	0.222	
28	13C-1,2,3,4,7,8-HxCDF	1.63e6	0.51	NO	1.01	9.999	33.52	0.986	171.46	85.7	0.212	
29	13C-1,2,3,6,7,8-HxCDF	1.41e6	0.51	NO	1.07	9.999	33.67	0.990	139.28	69.6	0.200	
30	13C-2,3,4,6,7,8-HxCDF	1.51e6	0.51	NO	0.910	9.999	34.36	1.011	176.43	88.2	0.236	

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Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504, Task: ST210602R1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.36e6	0.51	NO	0.828	9.999	35.43	1.042	174.27	87.1	0.259	
32	13C-1,2,3,4,6,7,8-HpCDF	1.07e6	0.44	NO	0.661	9.999	37.07	1.090	171.78	85.9	0.284	
33	13C-1,2,3,4,7,8,9-HpCDF	9.17e5	0.44	NO	0.566	9.999	38.94	1.145	172.42	86.2	0.331	
34	13C-OCDF	2.00e6	0.89	NO	0.663	9.999	41.69	1.226	321.74	80.4	0.291	
35	37Cl-2,3,7,8-TCDD	2.14e6			2.07	9.999	26.70	1.028	107.00	134	0.0155	
36	13C-1,2,3,4-TCDD	1.93e6	0.79	NO	1.00	9.999	25.97	1.000	200.03	100	0.0677	
37	13C-1,2,3,4-TCDF	3.04e6	0.79	NO	1.00	9.999	24.64	1.000	200.03	100	0.0657	
38	13C-1,2,3,4,6,9-HxCDF	1.88e6	0.51	NO	1.00	9.999	33.99	1.000	200.03	100	0.215	
39	Total Tetra-Dioxins				0.929	9.999			5.0202		0.0148	6.02
40	Total Penta-Dioxins				0.826	9.999			12.777		0.0489	15.0
41	Total Hexa-Dioxins				0.877	9.999			108.81		0.130	109
42	Total Hepta-Dioxins				0.899	9.999			602.47		0.588	602
43	Total Tetra-Furans				0.747	9.999			36.865		0.0323	37.6
44	1st Func. Penta-Furans				0.877	9.999			20.150		0.0154	20.2
45	Total Penta-Furans				0.877	9.999			51.099		0.0794	51.9
46	Total Hexa-Furans				0.973	9.999			158.90		0.0947	159
47	Total Hepta-Furans				1.05	9.999			191.06		0.175	191

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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504, Task: ST210602R1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.28	9.174e4	1.141e5	7.186e3	9.210e3	0.78	NO	1.640e4	1.4571	1.4571	0.0148
2	Total Tetra-Dioxins	23.58	4.026e4	6.206e4	3.329e3	4.554e3	0.73	NO	7.883e3	0.70051	0.70051	0.0148
3	Total Tetra-Dioxins	24.03	3.701e4	4.679e4	2.613e3	3.198e3	0.82	NO	5.811e3	0.51639	0.51639	0.0148
4	Total Tetra-Dioxins	24.79	2.120e4	2.380e4	1.309e3	1.776e3	0.74	NO	3.086e3	0.27422	0.27422	0.0148
5	Total Tetra-Dioxins	25.00	2.405e4	2.336e4	1.578e3	1.853e3	0.85	NO	3.430e3	0.30484	0.30484	0.0148
6	Total Tetra-Dioxins	25.20	3.852e4	4.485e4	2.578e3	3.130e3	0.82	NO	5.709e3	0.50729	0.50729	0.0148
7	Total Tetra-Dioxins	25.36	1.051e4	1.486e4	6.917e2	8.182e2	0.85	NO	1.510e3	0.13418	0.13418	0.0148
8	Total Tetra-Dioxins	25.65	1.772e4	2.376e4	1.294e3	1.601e3	0.81	NO	2.895e3	0.25724	0.25724	0.0148
9	Total Tetra-Dioxins	25.72	1.637e4	1.879e4	8.743e2	1.025e3	0.85	NO	1.899e3	0.16875	0.16875	0.0148
10	Total Tetra-Dioxins	26.08	1.479e4	1.963e4	1.021e3	9.935e2	1.03	YES	0.000e0	0.00000	0.15627	0.0148
11	Total Tetra-Dioxins	26.44	4.927e4	6.269e4	3.465e3	4.409e3	0.79	NO	7.874e3	0.69969	0.69969	0.0148
12	2,3,7,8-TCDD	26.70	4.999e4	9.666e4	3.030e3	5.867e3	0.52	YES	8.898e3	0.00000	0.61905	0.0148
13	Total Tetra-Dioxins	27.01	1.683e4	1.641e4	9.286e2	1.009e3	0.92	YES	0.000e0	0.00000	0.15863	0.0148
14	Total Tetra-Dioxins	27.54	8.163e3	7.196e3	4.296e2	4.210e2	1.02	YES	0.000e0	0.00000	0.066215	0.0148

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Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504, Task: ST210602R1

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.95	2.008e5	3.130e5	1.342e4	2.121e4	0.63	NO	3.463e4	4.7660	4.7660	0.0489
2	Total Penta-Dioxins	29.15	4.522e3	2.565e4	2.645e2	1.423e3	0.19	YES	0.000e0	0.00000	0.094174	0.0489
3	Total Penta-Dioxins	29.40	6.560e4	8.869e4	3.063e3	4.542e3	0.67	NO	7.605e3	1.0465	1.0465	0.0489
4	Total Penta-Dioxins	29.91	1.176e5	1.820e5	5.928e3	9.097e3	0.65	NO	1.503e4	2.0678	2.0678	0.0489
5	Total Penta-Dioxins	30.08	9.055e4	1.593e5	4.823e3	8.406e3	0.57	NO	0.000e0	0.00000	1.8205	0.0489
6	Total Penta-Dioxins	30.13	5.841e4	8.612e4	2.454e3	3.520e3	0.70	NO	5.975e3	0.82223	0.82223	0.0489
7	Total Penta-Dioxins	30.37	8.535e4	1.342e5	5.321e3	8.456e3	0.63	NO	1.378e4	1.8960	1.8960	0.0489
8	Total Penta-Dioxins	30.65	1.211e4	2.274e4	6.763e2	1.064e3	0.64	NO	1.741e3	0.23955	0.23955	0.0489
9	1,2,3,7,8-PeCDD	31.12	8.610e4	1.444e5	4.183e3	6.892e3	0.61	NO	1.108e4	1.5242	1.5242	0.0489
10	Total Penta-Dioxins	31.19	2.052e4	2.778e4	1.120e3	1.443e3	0.78	YES	0.000e0	0.00000	0.32362	0.0489
11	Total Penta-Dioxins	31.47	2.274e4	3.807e4	1.060e3	1.956e3	0.54	NO	3.016e3	0.41505	0.41505	0.0489

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.75	2.147e6	1.749e6	1.080e5	8.673e4	1.25	NO	1.947e5	33.127	33.127	0.130
2	Total Hexa-Dioxins	33.38	1.866e5	1.467e5	9.700e3	7.927e3	1.22	NO	1.763e4	2.9986	2.9986	0.130
3	Total Hexa-Dioxins	33.70	2.407e6	1.924e6	1.537e5	1.228e5	1.25	NO	2.765e5	47.036	47.036	0.130
4	Total Hexa-Dioxins	33.78	8.437e4	7.684e4	4.260e3	3.387e3	1.26	NO	7.648e3	1.3009	1.3009	0.130
5	1,2,3,4,7,8-HxCDD	34.49	1.222e5	9.028e4	6.402e3	5.274e3	1.21	NO	1.168e4	1.9531	1.9531	0.123
6	1,2,3,6,7,8-HxCDD	34.61	8.807e5	6.963e5	5.244e4	4.075e4	1.29	NO	9.319e4	15.356	15.356	0.125
7	Total Hexa-Dioxins	34.77	4.534e4	3.956e4	2.825e3	2.398e3	1.18	NO	5.223e3	0.88844	0.88844	0.130
8	1,2,3,7,8,9-HxCDD	34.90	3.449e5	2.732e5	2.113e4	1.671e4	1.26	NO	3.784e4	6.1502	6.1502	0.129

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.41	1.207e7	1.180e7	7.250e5	7.067e5	1.03	NO	1.432e6	302.15	302.15	0.588
2	1,2,3,4,6,7,8-HpCDD	38.30	1.251e7	1.224e7	7.218e5	7.013e5	1.03	NO	1.423e6	300.33	300.33	0.588

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Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504, Task: ST210602R1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.18	5.785e3	8.534e3	5.102e2	7.515e2	0.68	NO	1.262e3	0.10744	0.10744	0.0323
2	Total Tetra-Furans	21.76	4.411e4	7.242e4	4.323e3	6.095e3	0.71	NO	1.042e4	0.88709	0.88709	0.0323
3	Total Tetra-Furans	22.53	2.085e5	2.643e5	1.636e4	2.210e4	0.74	NO	3.846e4	3.2752	3.2752	0.0323
4	Total Tetra-Furans	22.87	2.584e4	3.671e4	1.996e3	2.597e3	0.77	NO	4.593e3	0.39109	0.39109	0.0323
5	Total Tetra-Furans	22.95	6.849e4	8.911e4	5.782e3	7.907e3	0.73	NO	1.369e4	1.1656	1.1656	0.0323
6	Total Tetra-Furans	23.04	2.998e4	3.443e4	1.421e3	1.752e3	0.81	NO	3.172e3	0.27012	0.27012	0.0323
7	Total Tetra-Furans	23.25	1.607e4	2.296e4	7.312e2	1.065e3	0.69	NO	1.797e3	0.15299	0.15299	0.0323
8	Total Tetra-Furans	23.33	2.164e5	3.017e5	1.699e4	2.295e4	0.74	NO	3.995e4	3.4016	3.4016	0.0323
9	Total Tetra-Furans	23.74	1.328e5	1.899e5	1.028e4	1.377e4	0.75	NO	2.405e4	2.0475	2.0475	0.0323
10	Total Tetra-Furans	23.86	5.012e4	7.235e4	3.518e3	4.887e3	0.72	NO	8.405e3	0.71569	0.71569	0.0323
11	Total Tetra-Furans	24.05	7.167e4	9.461e4	5.207e3	7.017e3	0.74	NO	1.222e4	1.0409	1.0409	0.0323
12	Total Tetra-Furans	24.42	1.504e4	2.028e4	8.456e2	1.256e3	0.67	NO	2.101e3	0.17894	0.17894	0.0323
13	Total Tetra-Furans	24.51	3.729e4	5.128e4	2.782e3	3.874e3	0.72	NO	6.656e3	0.56673	0.56673	0.0323
14	Total Tetra-Furans	24.74	1.166e5	1.671e5	1.363e4	1.852e4	0.74	NO	3.215e4	2.7379	2.7379	0.0323
15	Total Tetra-Furans	25.16	5.486e5	7.253e5	3.487e4	4.763e4	0.73	NO	8.249e4	7.0245	7.0245	0.0323
16	Total Tetra-Furans	25.45	3.634e4	5.280e4	2.497e3	3.591e3	0.70	NO	6.087e3	0.51835	0.51835	0.0323
17	Total Tetra-Furans	25.54	1.779e4	1.594e4	8.631e2	8.777e2	0.98	YES	0.000e0	0.00000	0.13228	0.0323
18	Total Tetra-Furans	25.65	4.994e3	7.414e3	3.521e2	4.965e2	0.71	NO	8.486e2	0.072258	0.072258	0.0323
19	Total Tetra-Furans	25.82	2.010e4	2.752e4	1.318e3	1.717e3	0.77	NO	3.035e3	0.25844	0.25844	0.0323
20	Total Tetra-Furans	25.96	9.749e4	1.347e5	6.018e3	7.743e3	0.78	NO	1.376e4	1.1718	1.1718	0.0323
21	2,3,7,8-TCDF	26.09	7.369e5	9.873e5	4.387e4	6.025e4	0.73	NO	1.041e5	8.8655	8.8655	0.0323
22	Total Tetra-Furans	26.33	2.978e4	4.375e4	1.942e3	2.846e3	0.68	NO	0.000e0	0.00000	0.40774	0.0323
23	Total Tetra-Furans	26.36	5.317e4	6.740e4	3.067e3	4.000e3	0.77	NO	7.067e3	0.60174	0.60174	0.0323
24	Total Tetra-Furans	26.61	1.645e4	2.111e4	1.020e3	1.313e3	0.78	NO	2.332e3	0.19859	0.19859	0.0323
25	Total Tetra-Furans	27.21	1.247e4	6.095e3	5.723e2	3.271e2	1.75	YES	0.000e0	0.00000	0.049302	0.0323
26	Total Tetra-Furans	27.45	6.033e4	8.563e4	3.869e3	4.647e3	0.83	NO	8.516e3	0.72511	0.72511	0.0323
27	Total Tetra-Furans	27.64	2.496e4	1.867e4	1.312e3	8.875e2	1.48	YES	0.000e0	0.00000	0.13377	0.0323
28	Total Tetra-Furans	27.85	4.280e4	6.114e4	2.425e3	3.326e3	0.73	NO	5.751e3	0.48969	0.48969	0.0323

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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	2.335e6	1.481e6	1.318e5	8.211e4	1.61	NO	2.139e5	20.150	20.150	0.0154

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	1.238e5	7.512e4	8.235e3	5.117e3	1.61	NO	1.335e4	1.2579	1.2579	0.0794
2	Total Penta-Furans	29.00	1.291e6	8.334e5	8.662e4	5.557e4	1.56	NO	1.422e5	13.396	13.396	0.0794
3	Total Penta-Furans	29.34	1.264e4	7.511e3	5.829e2	3.826e2	1.52	NO	9.655e2	0.090955	0.090955	0.0794
4	Total Penta-Furans	29.40	2.449e4	1.497e4	1.526e3	1.001e3	1.52	NO	0.000e0	0.00000	0.23812	0.0794
5	Total Penta-Furans	29.57	2.906e5	1.814e5	1.864e4	1.192e4	1.56	NO	3.056e4	2.8790	2.8790	0.0794
6	Total Penta-Furans	29.73	1.494e5	9.907e4	8.021e3	4.967e3	1.61	NO	1.299e4	1.2236	1.2236	0.0794
7	1,2,3,7,8-PeCDF	29.93	2.506e6	1.620e6	1.223e5	7.683e4	1.59	NO	1.991e5	18.403	18.403	0.0788
8	Total Penta-Furans	30.17	6.594e5	4.051e5	3.228e4	2.001e4	1.61	NO	5.229e4	4.9261	4.9261	0.0794
9	Total Penta-Furans	30.77	6.513e4	3.295e4	3.045e3	1.670e3	1.82	YES	0.000e0	0.00000	0.40128	0.0794
10	2,3,4,7,8-PeCDF	30.95	1.061e6	6.745e5	5.984e4	3.780e4	1.58	NO	9.764e4	8.5506	8.5506	0.0730
11	Total Penta-Furans	31.77	2.990e4	1.366e4	1.581e3	7.757e2	2.04	YES	0.000e0	0.00000	0.18635	0.0794
12	Total Penta-Furans	31.84	4.788e4	3.302e4	2.394e3	1.554e3	1.54	NO	3.948e3	0.37197	0.37197	0.0794

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_14.qld

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Printed: Wednesday, June 23, 2021 12:53:16 Pacific Daylight Time

Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504, Task: ST210602R1

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.22	6.970e5	5.407e5	3.210e4	2.554e4	1.26	NO	5.764e4	8.0363	8.0363	0.0947
2	Total Hexa-Furans	32.39	2.177e6	1.777e6	1.041e5	8.357e4	1.25	NO	1.877e5	26.170	26.170	0.0947
3	Total Hexa-Furans	32.82	3.675e4	2.988e4	1.949e3	1.694e3	1.15	NO	3.642e3	0.50784	0.50784	0.0947
4	Total Hexa-Furans	33.05	2.649e6	2.114e6	1.349e5	1.086e5	1.24	NO	2.435e5	33.957	33.957	0.0947
5	Total Hexa-Furans	33.41	4.156e4	3.472e4	1.953e3	1.714e3	1.14	NO	3.667e3	0.51134	0.51134	0.0947
6	1,2,3,4,7,8-HxCDF	33.54	4.871e6	3.977e6	2.601e5	2.145e5	1.21	NO	4.746e5	63.306	63.306	0.0866
7	1,2,3,6,7,8-HxCDF	33.69	1.218e6	9.506e5	6.542e4	5.271e4	1.24	NO	1.181e5	17.959	17.959	0.101
8	Total Hexa-Furans	34.01	2.035e4	1.613e4	1.199e3	9.968e2	1.20	NO	2.196e3	0.30619	0.30619	0.0947
9	2,3,4,6,7,8-HxCDF	34.40	2.516e5	1.943e5	1.765e4	1.381e4	1.28	NO	3.146e4	4.2893	4.2893	0.0900
10	1,2,3,7,8,9-HxCDF	35.47	2.036e5	1.686e5	8.447e3	6.721e3	1.26	NO	1.517e4	2.3794	2.3794	0.117
11	Total Hexa-Furans	35.48	2.017e5	1.544e5	6.067e3	4.504e3	1.35	NO	1.057e4	1.4740	1.4740	0.0947

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.08	3.955e6	3.920e6	2.496e5	2.473e5	1.01	NO	4.969e5	88.855	88.855	0.167
2	Total Hepta-Furans	37.51	3.390e4	3.301e4	1.885e3	1.935e3	0.97	NO	3.819e3	0.73475	0.73475	0.175
3	Total Hepta-Furans	37.72	4.238e6	4.148e6	2.348e5	2.319e5	1.01	NO	4.667e5	89.782	89.782	0.175
4	1,2,3,4,7,8,9-HpCDF	38.96	4.857e5	4.645e5	2.804e4	2.798e4	1.00	NO	5.602e4	11.689	11.689	0.185

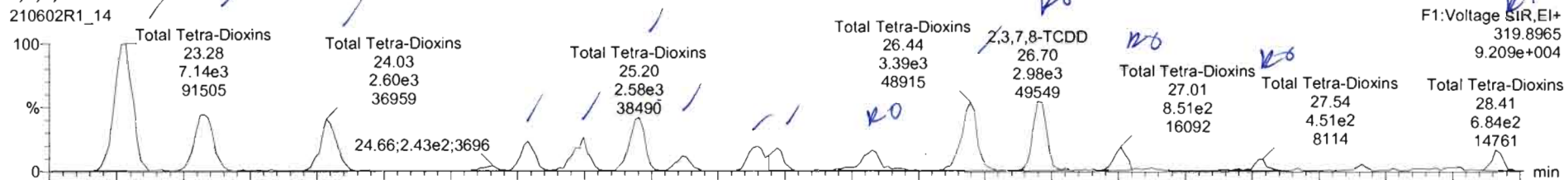
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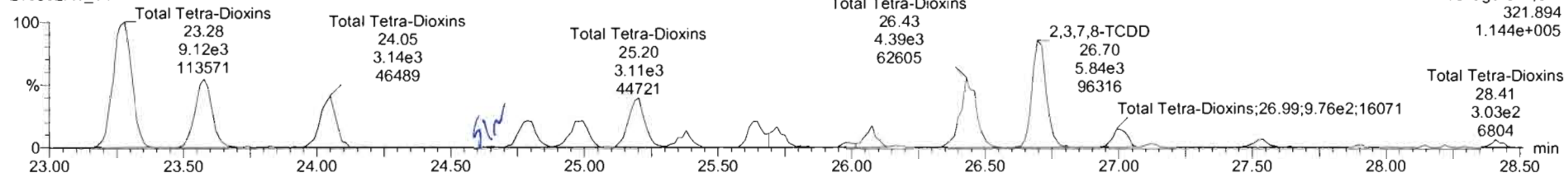
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Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504

2,3,7,8-TCDD

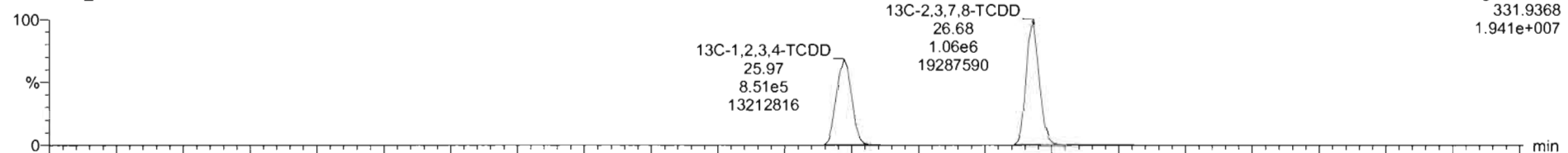


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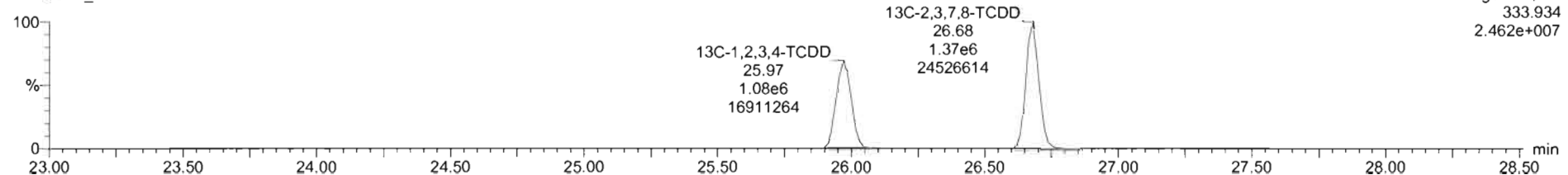


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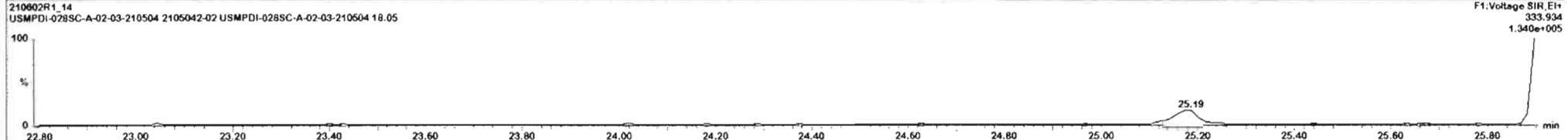
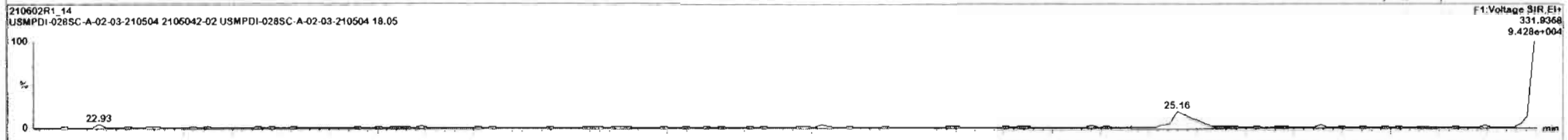
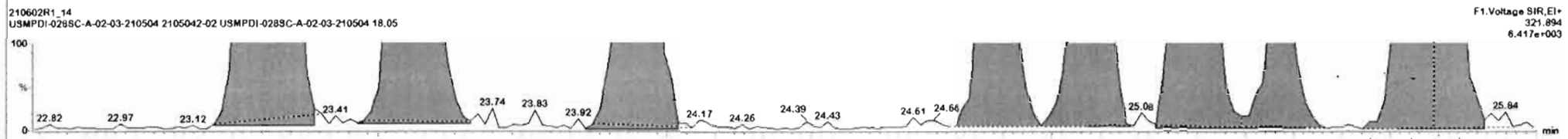
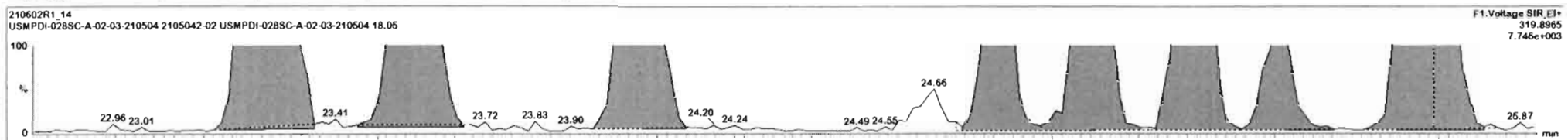
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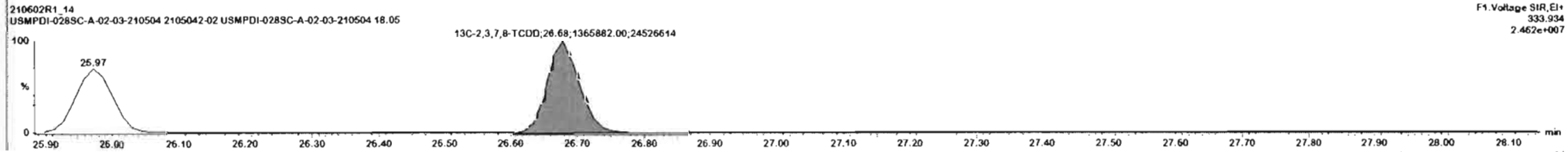
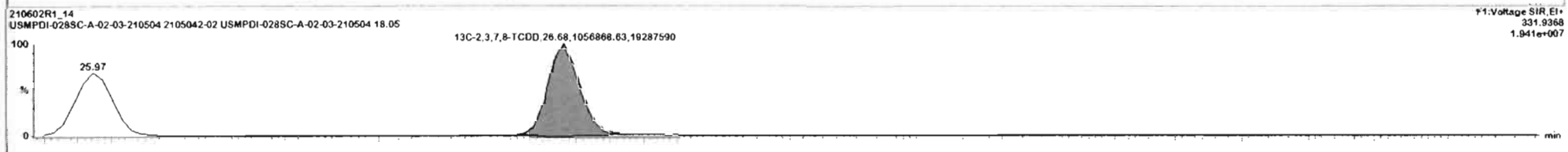
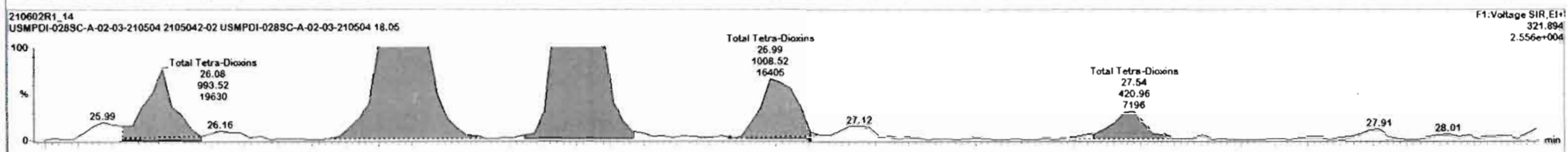
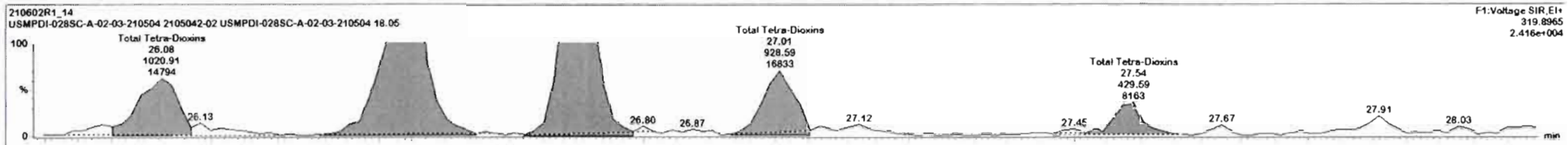
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#	Name	Resp	RA	nly	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.93	9.999	5.02		0.0148	5.40		
40	Total Penta-Dioxins				0.83	9.999	12.5		0.0489	15.0		
41	Total Hexa-Dioxins				0.88	9.999	109		0.130	109		
42	Total Hepta-Dioxins				0.90	9.999	602		0.585	602		
43	Total Tetra-Furans				0.75	9.999	36.9		0.2323	37.8		
44	1st Func. Penta-Furans				0.88	9.999	20.2		0.2154	20.1		
45	Total Penta-Furans				0.88	9.999	51.1		0.3794	51.9		
46	Total Hexa-Furans				0.97	9.999	157		0.3947	157		
47	Total Hepta-Furans				1.05	9.999	191		0.175	191		
48	PHK1											
49	PHK2											



#	Name	RT	Int Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Tetra-Dioxins	27.01	9.280e2	1.009e3	0.92	YES	0.15863	0.00000
2	2,3,7,8-TCDD	26.70	3.030e3	5.867e3	0.52	YES	0.61905	0.00000
3	Total Tetra-Dioxins	26.44	3.465e3	4.409e3	0.79	NO	0.69969	0.69969
4	Total Tetra-Dioxins	26.38	1.021e3	9.635e2	1.03	YES	0.15627	0.00000
5	Total Tetra-Dioxins	24.72	8.747e2	1.025e3	0.85	NO	0.16875	0.16875
6	Total Tetra-Dioxins	25.85	1.254e3	1.691e3	0.81	NO	0.25724	0.25724
7	Total Tetra-Dioxins	25.36	6.917e2	8.182e2	0.85	NO	0.13418	0.13418
8	Total Tetra-Dioxins	25.20	2.578e2	3.130e2	0.82	NO	0.50729	0.50729
9	Total Tetra-Dioxins	25.00	1.573e2	1.853e2	0.85	NO	0.30484	0.30484



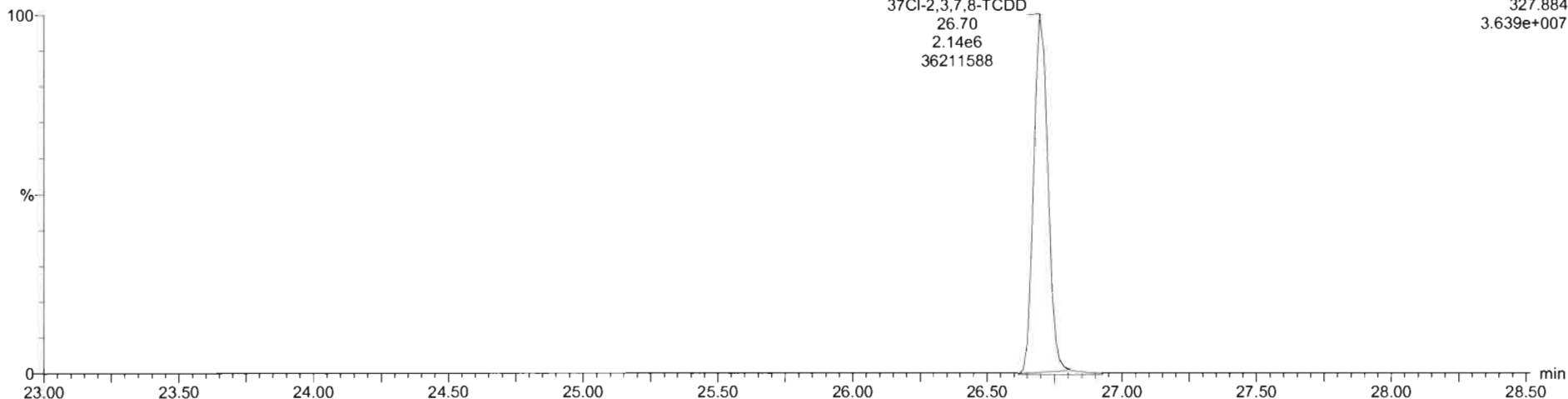
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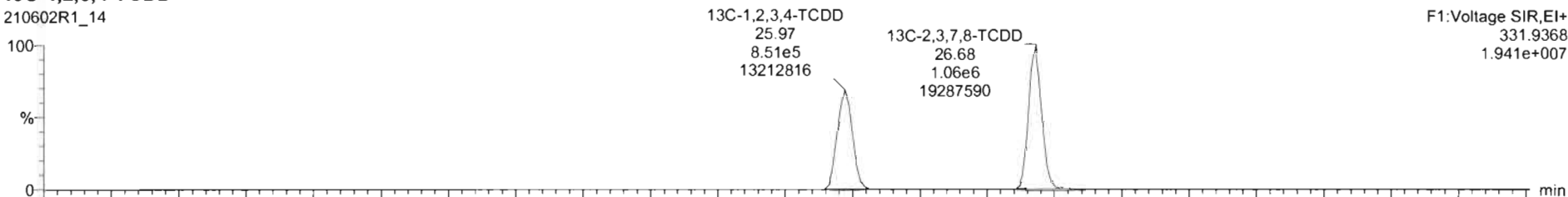
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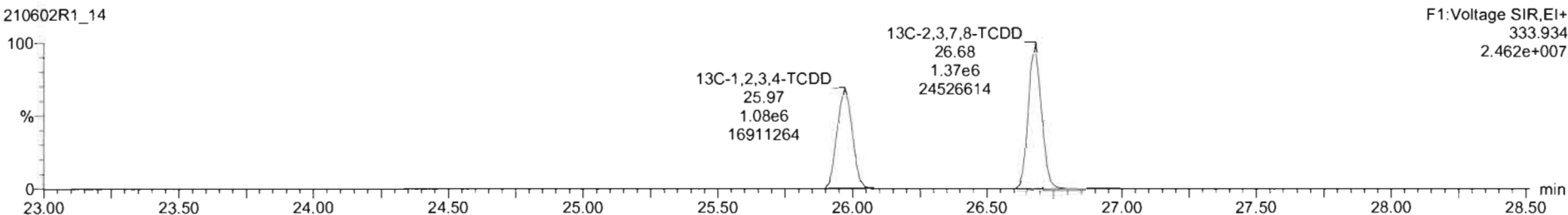


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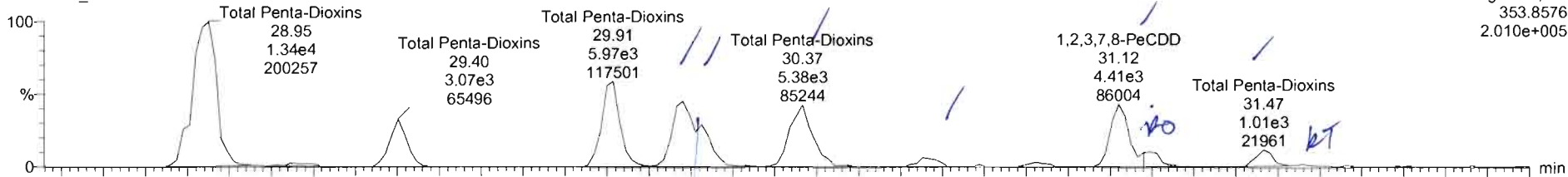
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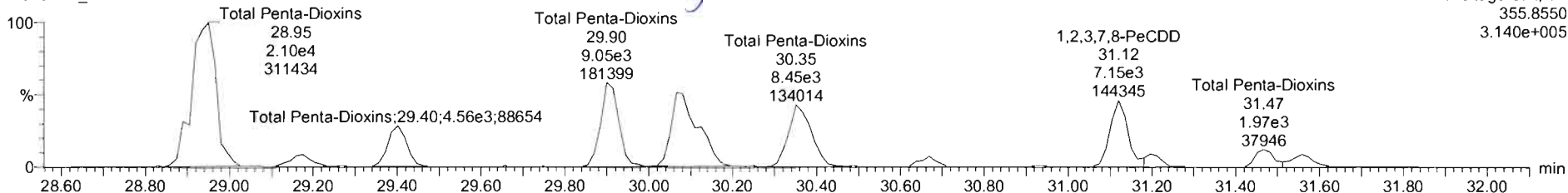
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1,2,3,7,8-PeCDD

210602R1_14

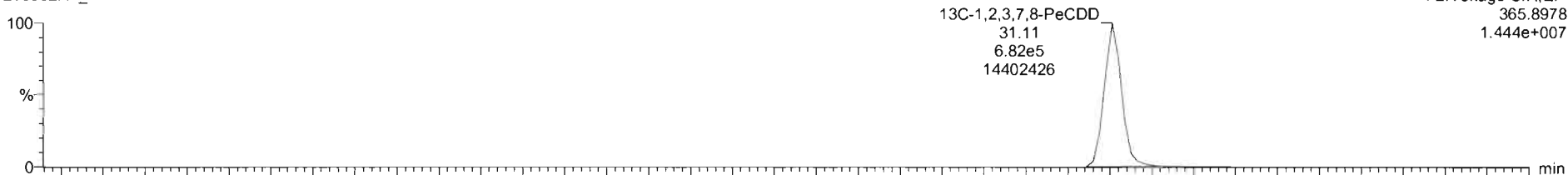


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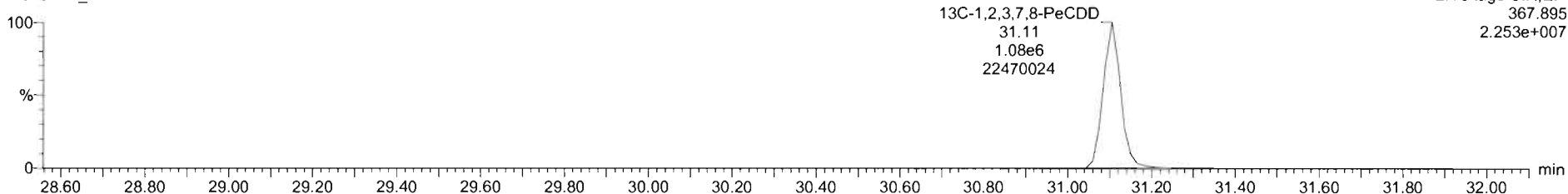


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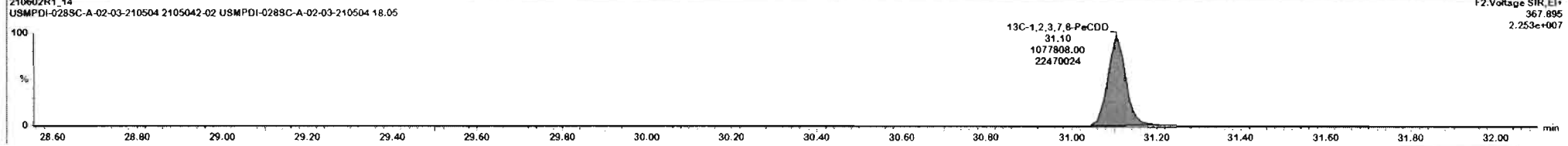
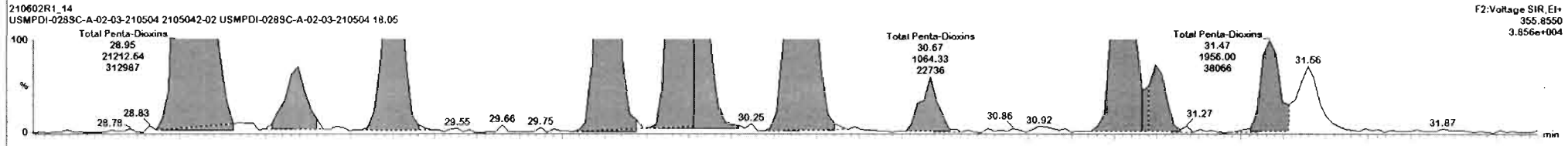
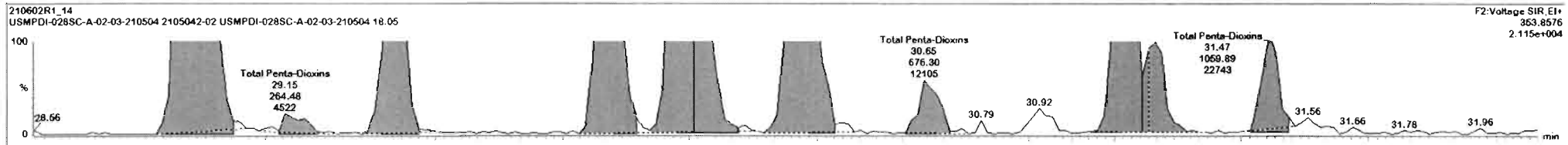
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210602R1_14



Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	28.95	1.342e4	2.121e4	0.83	NO	4.7680	4.7680
2 Total Penta-Dioxins	29.15	2.645e2	1.423e3	0.19	YES	0.094174	0.090000
3 Total Penta-Dioxins	29.40	3.063e3	4.542e3	0.67	NO	1.0485	1.0485
4 Total Penta-Dioxins	29.91	5.928e3	9.097e3	0.65	NO	2.0678	2.0678
5 Total Penta-Dioxins	30.08	4.823e3	8.406e3	0.57	NO	1.8205	0.000000
6 Total Penta-Dioxins	30.13	2.454e3	3.520e3	0.70	NO	0.82223	0.82223
7 Total Penta-Dioxins	30.37	5.271e3	8.455e3	0.63	NO	1.8960	1.8960
8 Total Penta-Dioxins	30.85	6.761e2	1.084e3	0.64	NO	0.23985	0.23985
9 1,2,3,7,8-PeCDD	31.12	4.183e2	8.892e3	0.61	NO	1.5242	1.5242



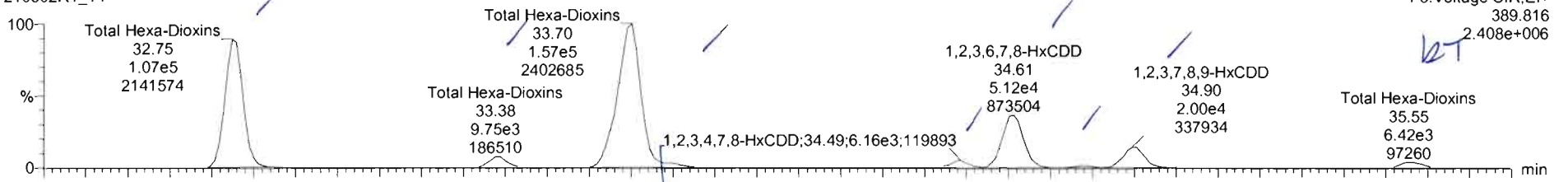
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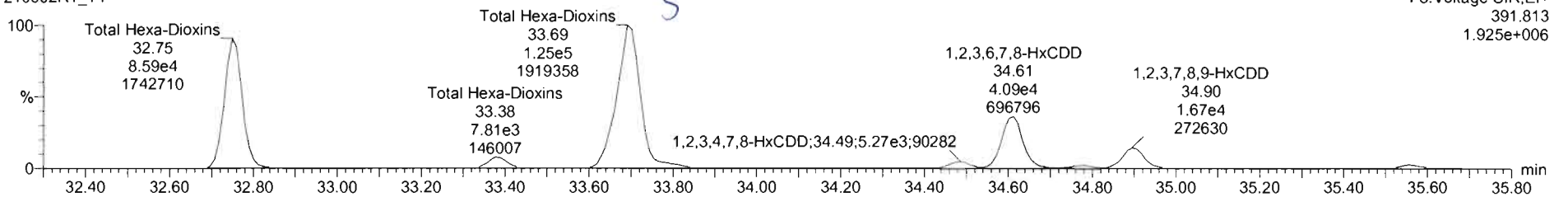
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1,2,3,4,7,8-HxCDD

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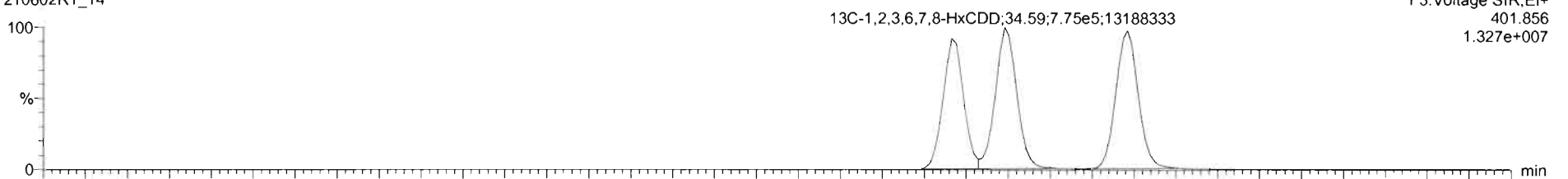


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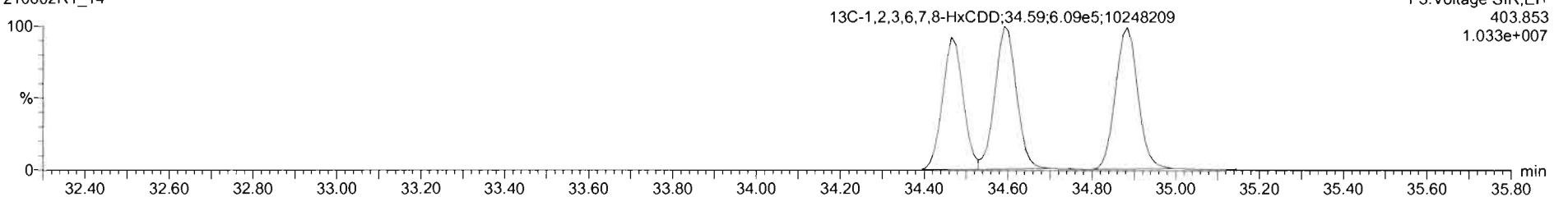


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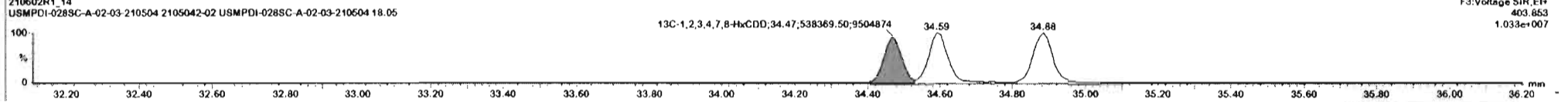
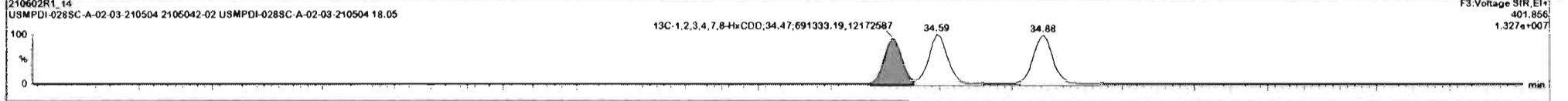
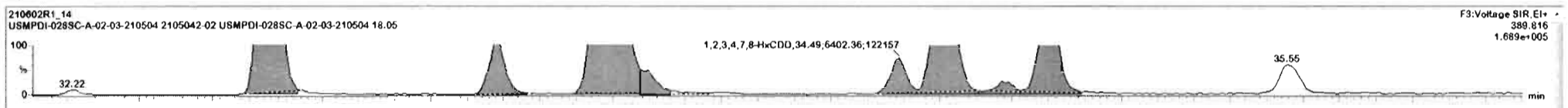


210602R1_14



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.93	9.999			5.02	0.0148	6.02	
40	Total Penta-Dioxins				0.83	9.999			12.3	0.0489	15.0	
41	Total Hexa-Dioxins				0.88	9.999			109	0.130	169	
42	Total Hepta-Dioxins				0.90	9.999			802	0.582	802	
43	Total Tetra-Furans				0.75	9.999			58.9	0.3323	37.8	
44	1st Furic Penta-Furans				0.88	9.999			20.2	0.0154	20.2	
45	Total Penta-Furans				0.88	9.999			51.1	0.0794	51.9	
46	Total Hexa-Furans				0.97	9.999			157	0.0947	157	
47	Total Hepta-Furans				1.05	9.999			191	0.175	191	
48	PK1											
49	PK2											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.75	1.060e5	8.673e4	1.25	NO	33.127	33.127
2	Total Hexa-Dioxins	33.36	9.700e3	7.927e3	1.25	NO	2.9986	2.9986
3	Total Hexa-Dioxins	33.70	1.537e5	1.228e5	1.25	NO	47.036	47.036
4	Total Hexa-Dioxins	33.78	4.264e3	3.387e3	1.26	NO	1.3009	1.3009
5	1,2,3,4,7,8-HxCDD	34.49	6.402e3	5.274e2	1.21	NO	1.9531	1.9531
6	1,2,3,6,7,8-HxCDD	34.61	5.241e4	4.075e4	1.29	NO	15.356	15.356
7	Total Hexa-Dioxins	34.77	2.825e3	2.398e3	1.18	NO	0.88844	0.88844
8	1,2,3,7,8-HxCDD	34.90	2.113e4	1.671e4	1.26	NO	6.1502	6.1502



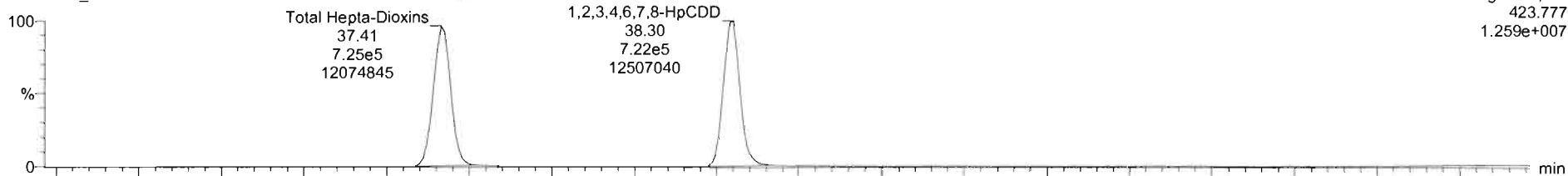
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Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504

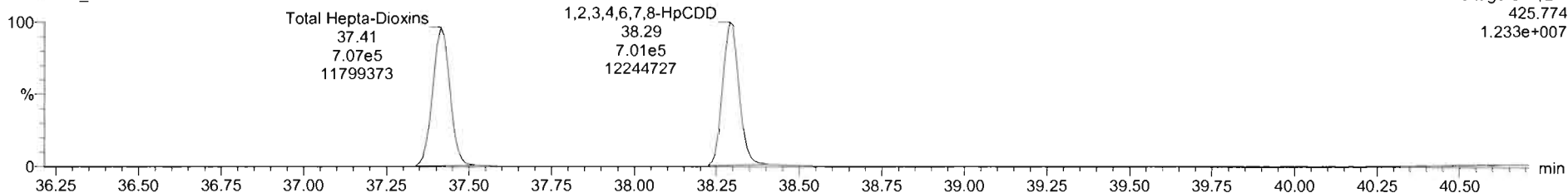
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F4: Voltage SIR, EI+
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1.259e+007

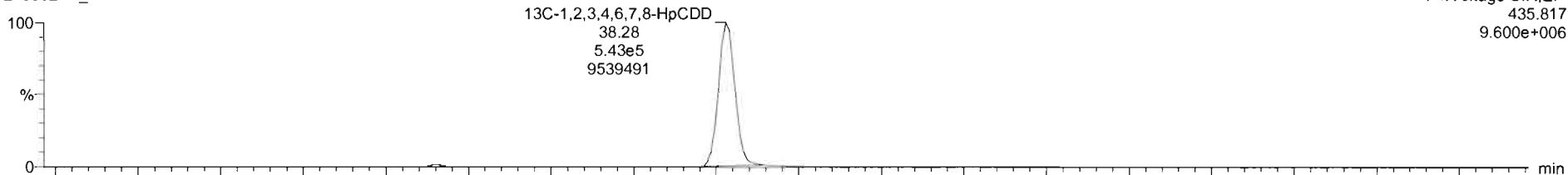
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F4: Voltage SIR, EI+
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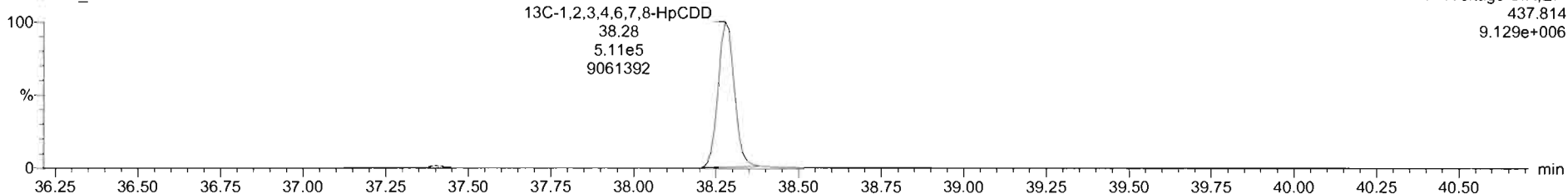
13C-1,2,3,4,6,7,8-HpCDD

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F4: Voltage SIR, EI+
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9.600e+006

210602R1_14



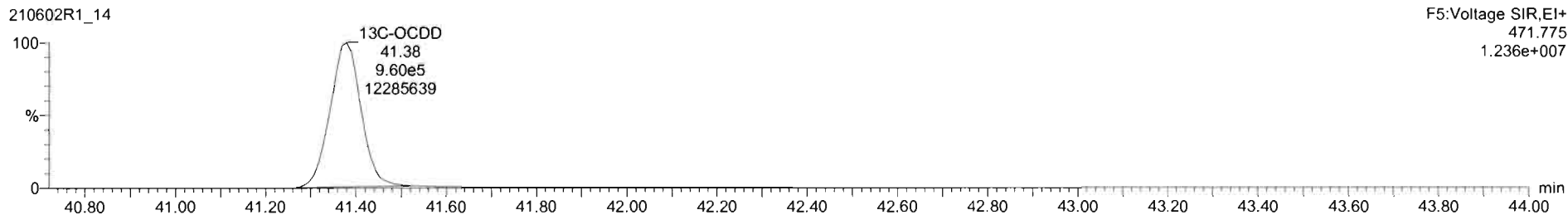
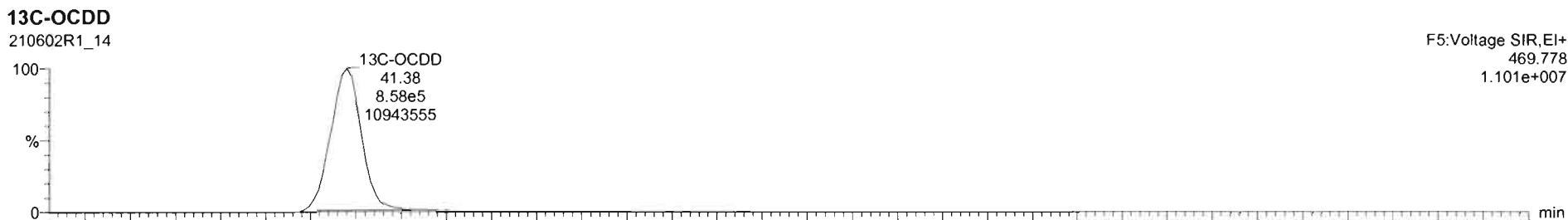
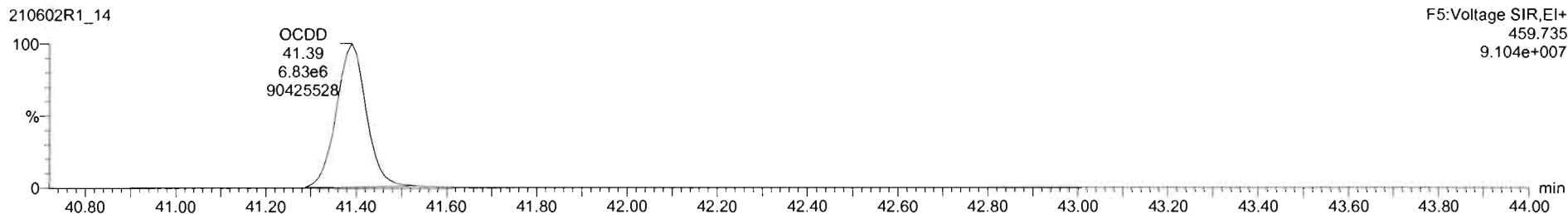
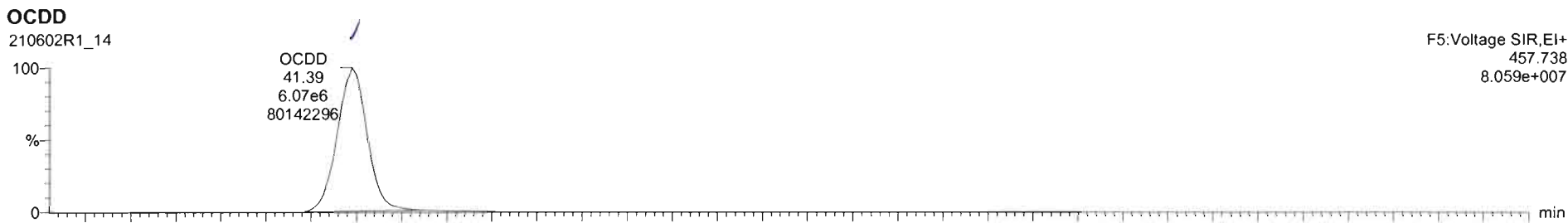
F4: Voltage SIR, EI+
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9.129e+006

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Last Altered: Thursday, June 03, 2021 14:55:30 Pacific Daylight Time

Printed: Thursday, June 03, 2021 14:57:15 Pacific Daylight Time

Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504

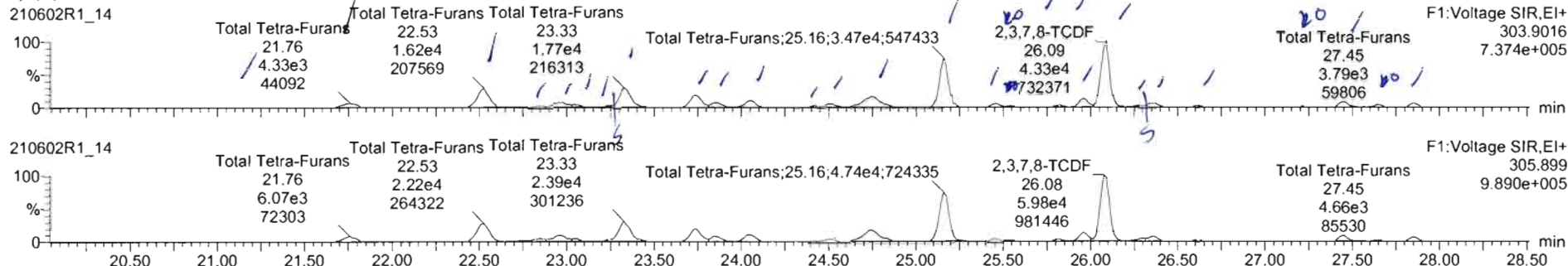


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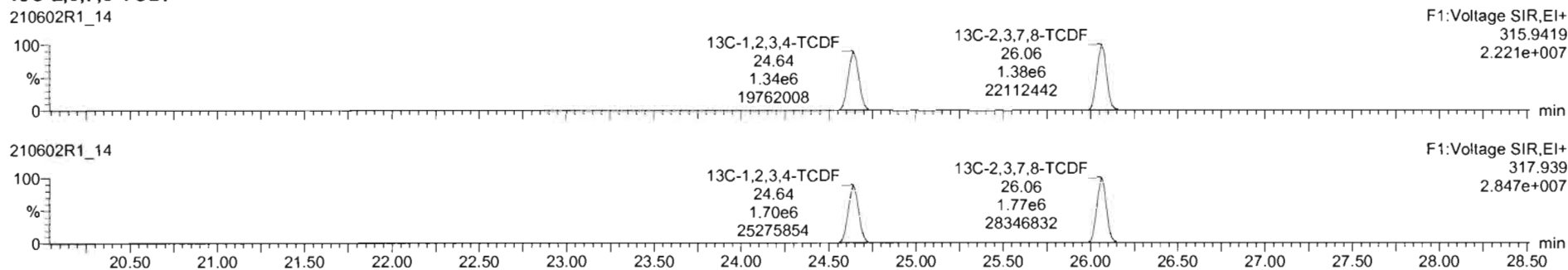
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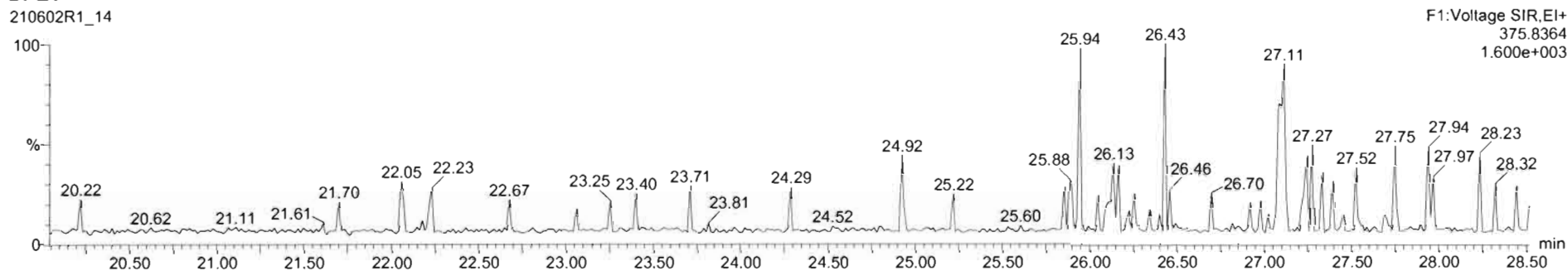
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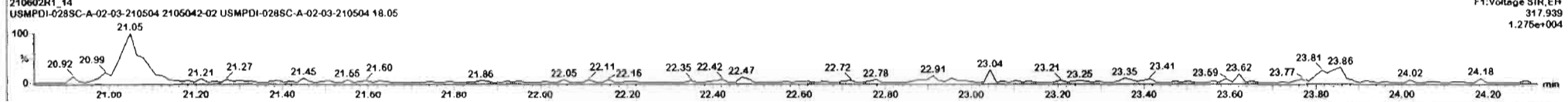
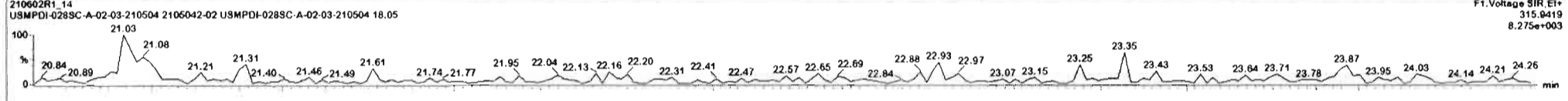
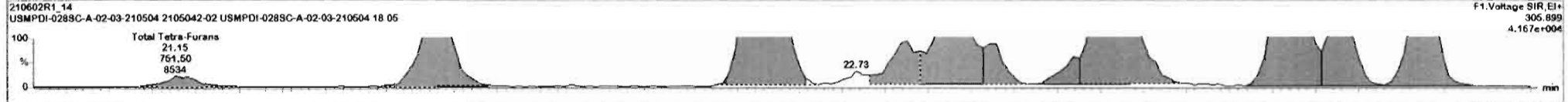
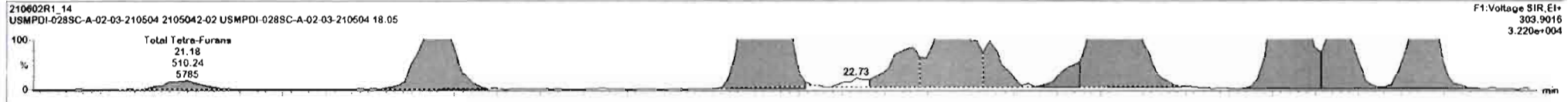


DPE1



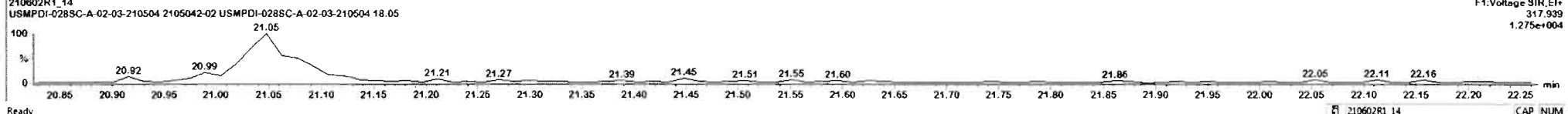
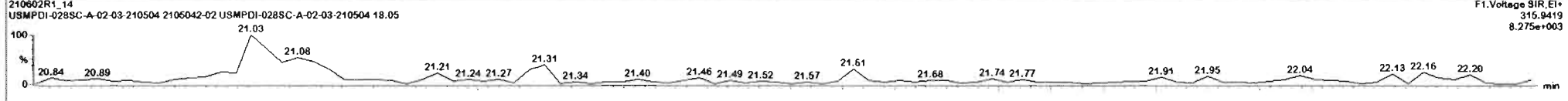
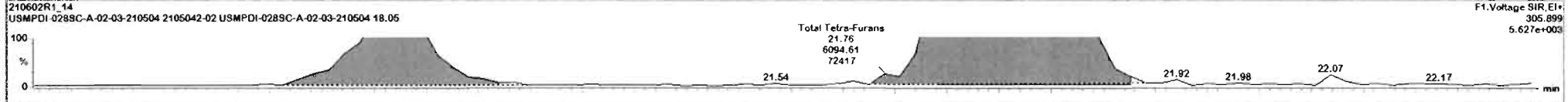
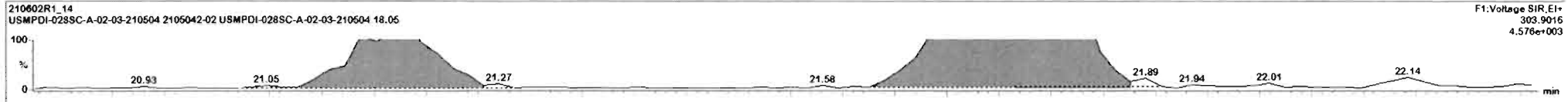
Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	9.999			36.9	0.0323	37.6	
44 1st Func. Penta-Furans				0.68	9.999			20.2	0.0154	20.2	
45 Total Penta-Furans				0.68	9.999			51.1	0.0764	51.9	
46 Total Hexa-Furans				0.97	9.999			157	0.3947	157	
47 Total Hepta-Furans				1.05	9.999			191	0.175	191	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 PFK6											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	21.18	5.102e2	7.515e2	0.68	NO	0.10744	0.10744
2 Total Tetra-Furans	21.76	4.323e3	6.095e3	0.71	NO	0.88709	0.88709
3 Total Tetra-Furans	22.53	1.636e4	2.210e4	0.74	NO	3.2752	3.2752
4 Total Tetra-Furans	22.87	1.996e3	2.597e3	0.77	NO	0.39169	0.39169
5 Total Tetra-Furans	22.95	5.782e3	7.607e3	0.73	NO	1.1656	1.1656
6 Total Tetra-Furans	23.04	1.421e3	1.752e3	0.81	NO	0.27012	0.27012
7 Total Tetra-Furans	23.25	7.312e2	1.065e2	0.69	NO	0.15299	0.15299
8 Total Tetra-Furans	23.33	1.899e4	2.295e4	0.74	NO	3.4016	3.4016
9 Total Tetra-Furans	23.74	1.028e4	1.377e4	0.75	NO	2.0475	2.0475



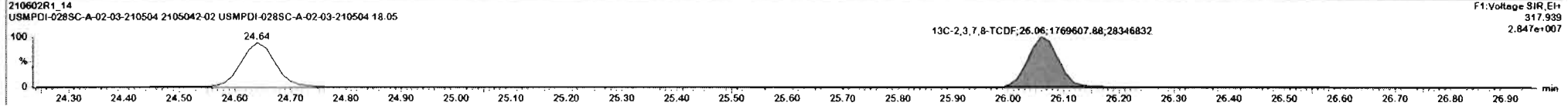
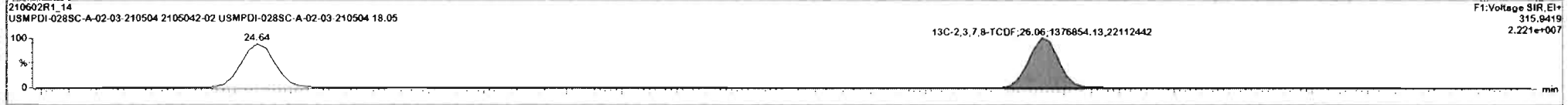
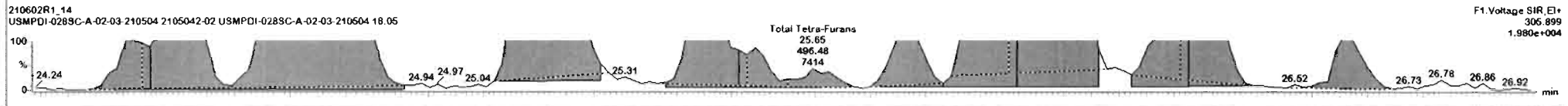
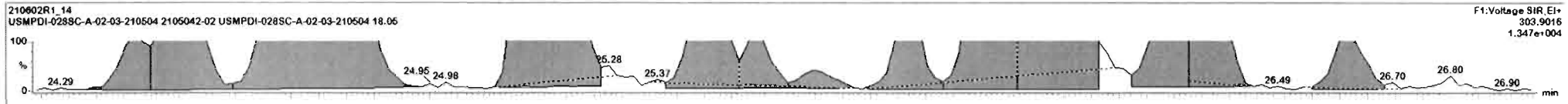
Name	Resp	RA	nlv	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	9.999			36.9	0.0323	37.6	
44 1st Func. Penta-Furans				0.88	9.999			20.2	0.0154	20.2	
45 Total Penta-Furans				0.88	9.999			51.1	0.0794	51.9	
46 Total Hexa-Furans				0.97	9.999			157	0.0947	157	
47 Total Hepta-Furans				1.05	9.999			191	0.175	191	
48 PPK1											
49 PPK2											
50 PPK3											
51 PPK4											
52 PPK5											
53 PPK1											

Name	RT	m1 Resp	m2 Resp	RA	nlv	EMPC	Conc.
1 Total Tetra-Furans	21.18	5.102e2	7.515e2	0.68	NO	0.10744	0.10744
2 Total Tetra-Furans	21.76	4.323e2	8.095e3	0.71	NO	0.88709	0.88709
3 Total Tetra-Furans	22.53	1.636e4	2.210e4	0.74	NO	3.2752	3.2752
4 Total Tetra-Furans	22.87	1.950e3	2.597e3	0.77	NO	0.39109	0.39109
5 Total Tetra-Furans	23.95	5.782e3	7.807e3	0.73	NO	1.1656	1.1656
6 Total Tetra-Furans	23.94	1.421e3	1.752e3	0.81	NO	0.27012	0.27012
7 Total Tetra-Furans	23.25	7.312e2	1.065e3	0.89	NO	0.15299	0.15299
8 Total Tetra-Furans	23.33	1.899e4	2.295e4	0.74	NO	3.4016	3.4016
9 Total Tetra-Furans	23.74	1.025e4	1.377e4	0.75	NO	2.0475	2.0475



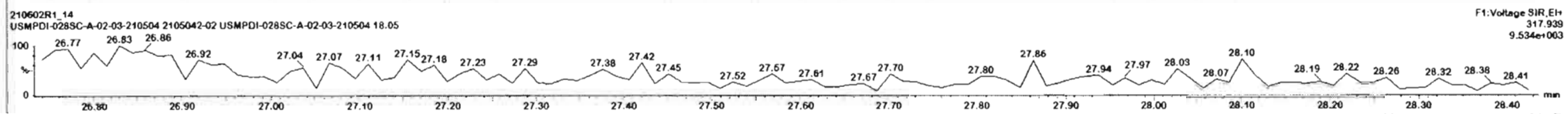
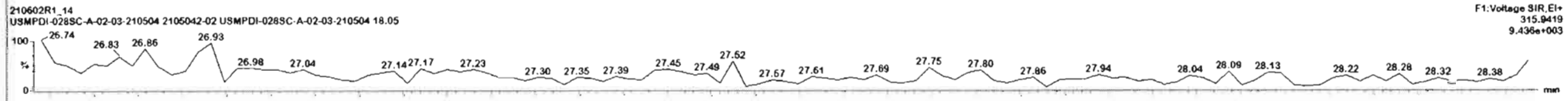
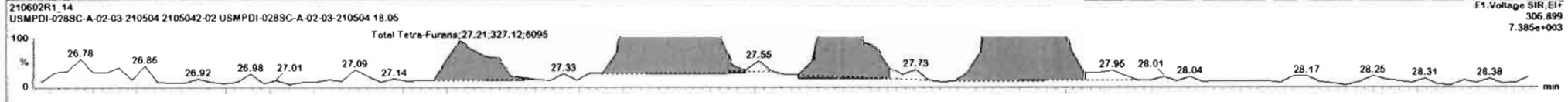
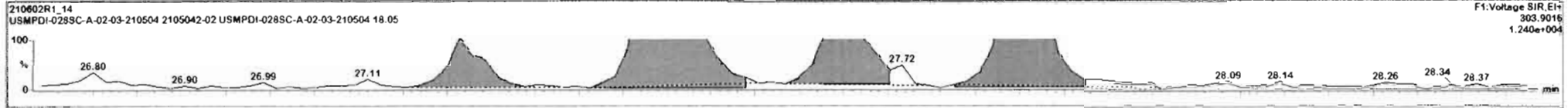
Name	Resp	RA	nly	RRF	w5vel	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	9.999			36.9	0.0323	37.6	
44 1st Func. Penta-Furans				0.66	9.999			20.2	0.0154	20.2	
45 Total Penta-Furans				0.68	9.999			51.1	0.0794	51.9	
46 Total Hexa-Furans				0.97	9.999			157	0.0947	157	
47 Total Hepta-Furans				1.05	9.999			191	0.175	191	
48 PK1											
49 PK2											
50 PK3											
51 PK4											
52 PK5											
53 PK6											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Furans	21.18	5.102e2	7.515e2	0.68	NO	0.10744	0.10744
2 Total Tetra-Furans	21.76	4.323e2	8.095e2	0.71	NO	0.89709	0.88709
3 Total Tetra-Furans	22.53	1.836e4	2.210e4	0.74	NO	3.2752	3.2752
4 Total Tetra-Furans	22.87	1.990e2	2.597e2	0.77	NO	0.39109	0.39109
5 Total Tetra-Furans	22.95	5.782e2	7.907e2	0.73	NO	1.1656	1.1656
6 Total Tetra-Furans	23.04	1.421e2	1.752e2	0.51	NO	0.27012	0.27012
7 Total Tetra-Furans	23.25	7.212e2	1.095e2	0.69	NO	0.15299	0.15299
8 Total Tetra-Furans	23.33	1.899e4	2.295e4	0.74	NO	3.4016	3.4016
9 Total Tetra-Furans	23.74	1.029e4	1.377e4	0.75	NO	2.0475	2.0475



#	Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.75	9.999			36.9	0.0323		37.6
44	1st Func. Penta-Furans				0.88	9.999			20.2	0.0154		20.2
45	Total Penta-Furans				0.88	9.999			51.1	0.0794		51.9
46	Total Hexa-Furans				0.97	9.999			157	0.0947		157
47	Total Hepta-Furans				1.05	9.999			191	0.175		191
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	PDF1											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Tetra-Furans	21.18	5.102e2	7.515e2	0.66	NO	0.10744	0.10744
2	Total Tetra-Furans	21.76	4.322e3	6.095e3	0.71	NO	0.88709	0.88709
3	Total Tetra-Furans	22.53	1.636e4	2.210e4	0.74	NO	3.2752	3.2752
4	Total Tetra-Furans	22.87	1.996e3	2.597e3	0.77	NO	0.39109	0.39109
5	Total Tetra-Furans	22.95	5.782e3	7.607e3	0.73	NO	1.1656	1.1656
6	Total Tetra-Furans	23.04	1.421e3	1.752e3	0.81	NO	0.27012	0.27012
7	Total Tetra-Furans	23.25	7.312e2	1.085e3	0.68	NO	0.15299	0.15299
8	Total Tetra-Furans	23.33	1.659e4	2.295e4	0.74	NO	3.4016	3.4016
9	Total Tetra-Furans	23.74	1.028e4	1.377e4	0.75	NO	2.0475	2.0475



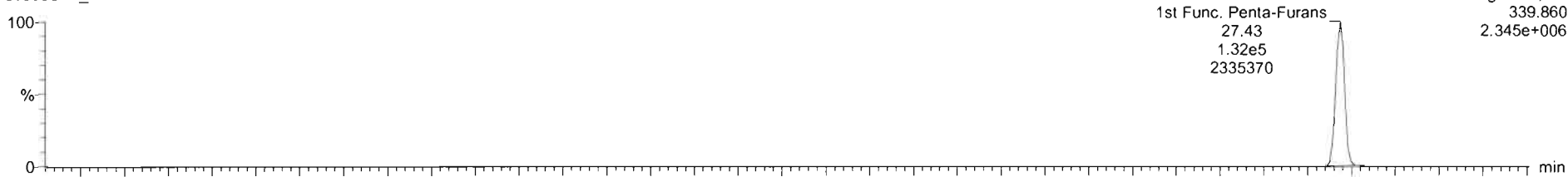
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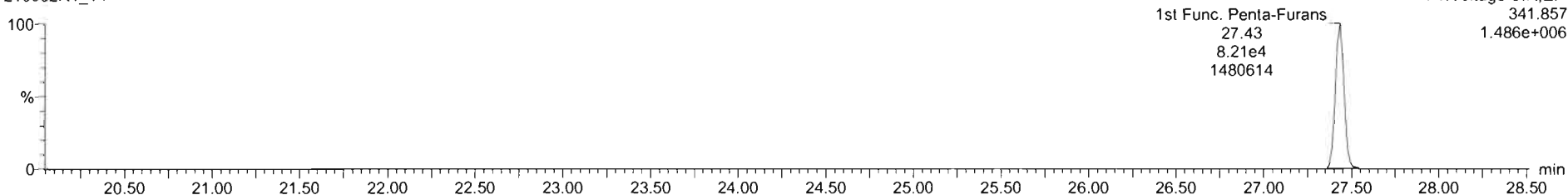
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1st Func. Penta-Furans

210602R1_14

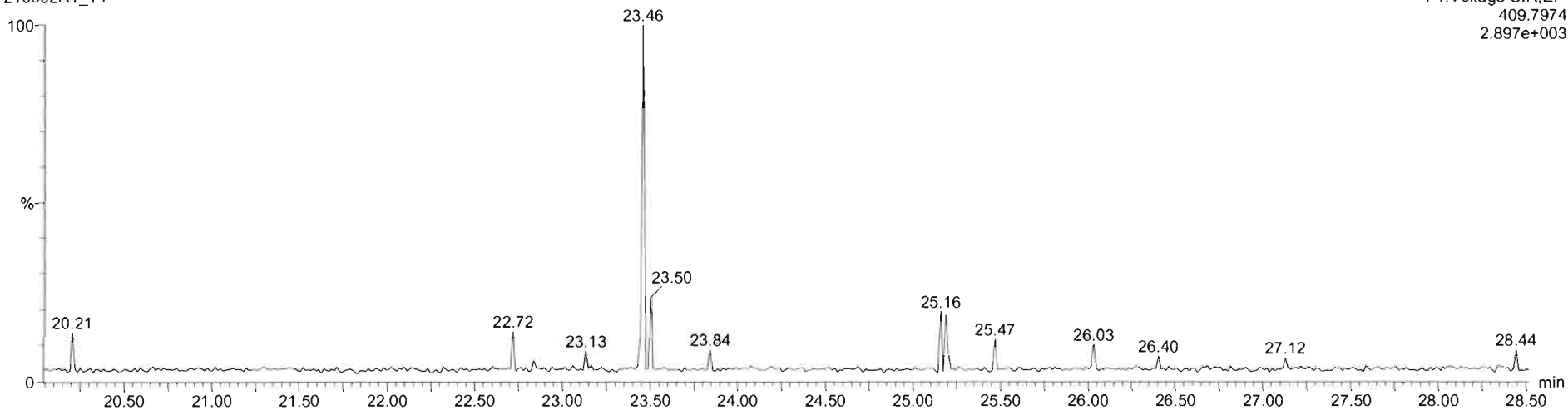


210602R1_14



DPE6

210602R1_14



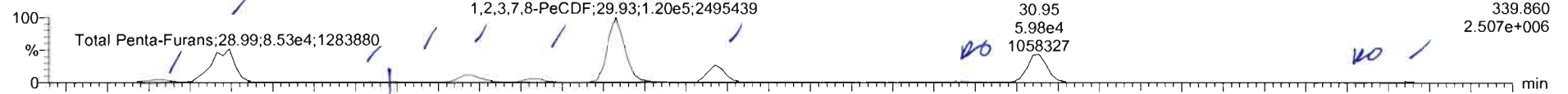
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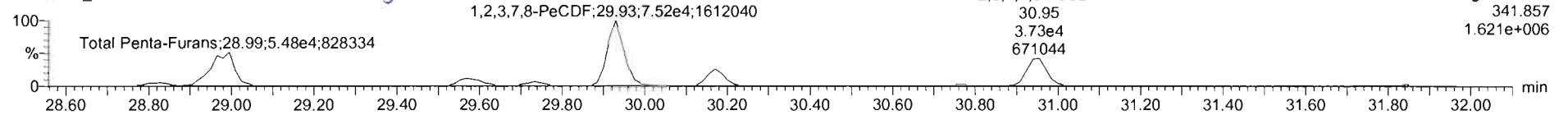
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1,2,3,7,8-PeCDF

210602R1_14

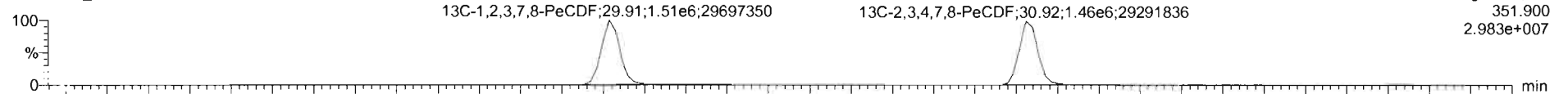


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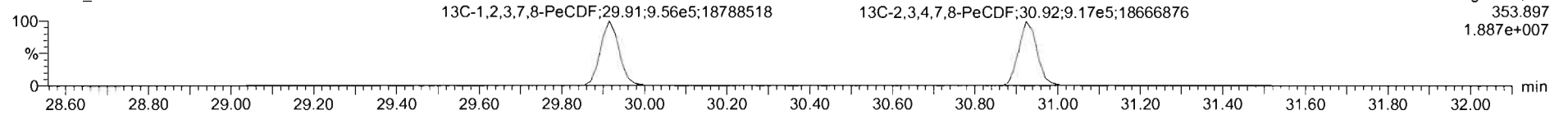


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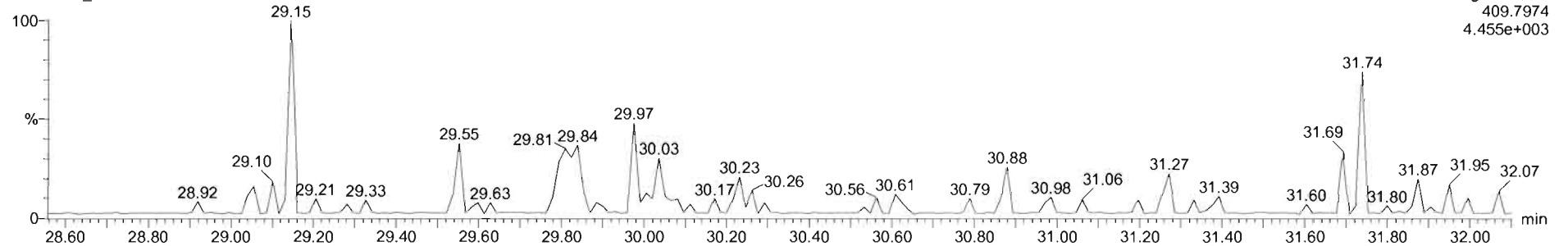


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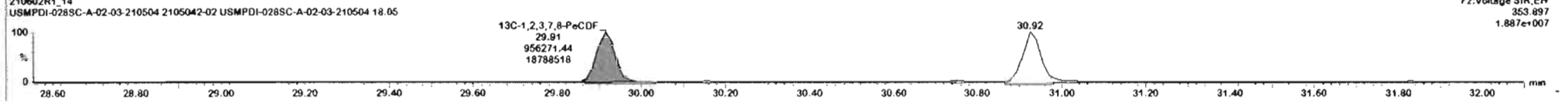
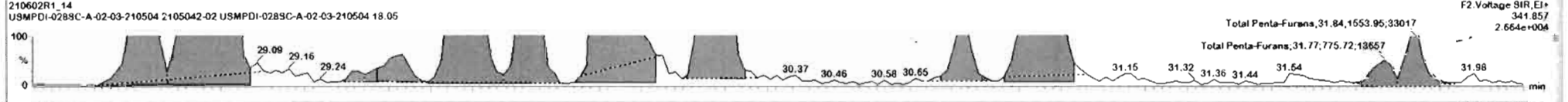
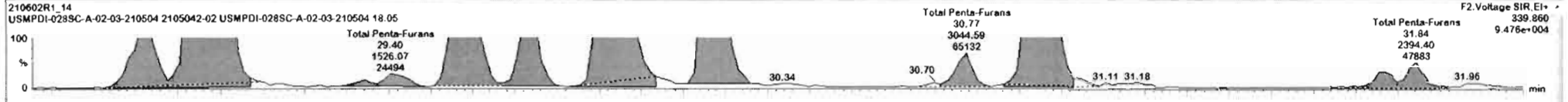
DPE2

210602R1_14



Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	9.999			36.9	0.0321	37.6	
44 1st Func. Penta-Furans				0.86	9.999			20.2	0.0154	20.2	
45 Total Penta-Furans				0.88	9.999			51.1	0.0794	51.9	
46 Total Hexa-Furans				0.97	9.999			157	0.0947	157	
47 Total Hepta-Furans				1.05	9.999			191	0.175	191	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
61 npe1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.81	8.235e3	5.117e3	1.61	NO	1.2579	1.2579
2 Total Penta-Furans	29.00	8.062e4	5.557e4	1.56	NO	13.396	13.396
3 Total Penta-Furans	29.34	5.829e2	3.826e2	1.52	NO	0.090955	0.090955
4 Total Penta-Furans	29.40	1.520e3	1.001e3	1.52	NO	0.23812	0.00000
5 Total Penta-Furans	29.57	1.864e4	1.192e4	1.56	NO	2.6790	2.6790
6 Total Penta-Furans	29.73	8.021e3	4.967e3	1.61	NO	1.2236	1.2236
7 1,2,3,7,8-PeCDF	29.93	1.223e5	7.683e4	1.59	NO	16.403	18.403
8 Total Penta-Furans	30.17	3.228e4	2.001e4	1.61	NO	4.9281	4.9281
9 Total Penta-Furans	30.77	3.045e3	1.670e3	1.82	YES	0.40128	0.00000

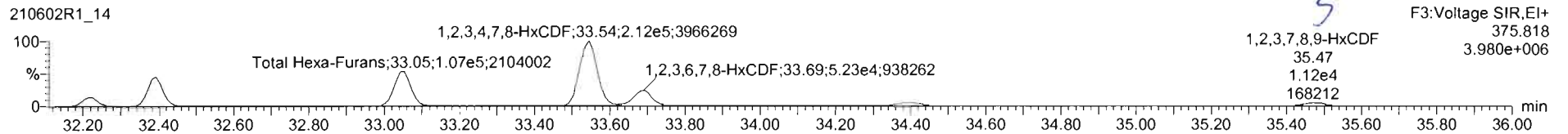
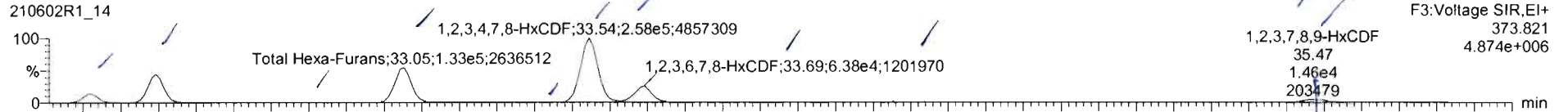


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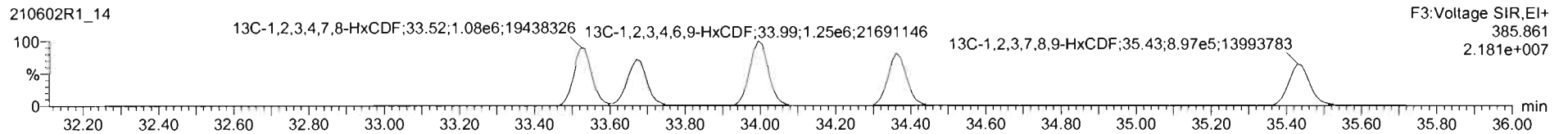
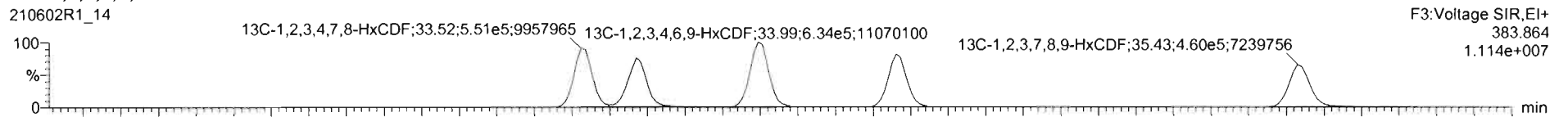
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Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504

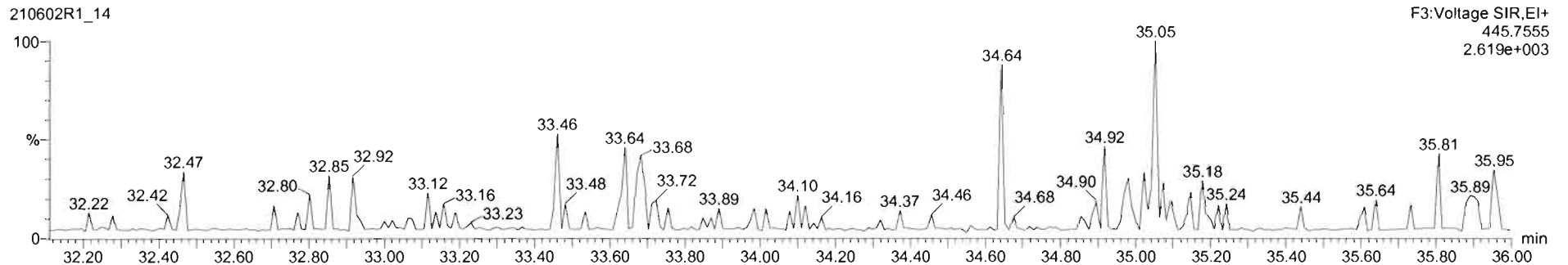
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13C-1,2,3,4,7,8-HxCDF

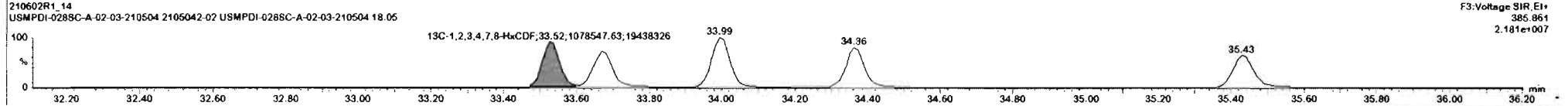
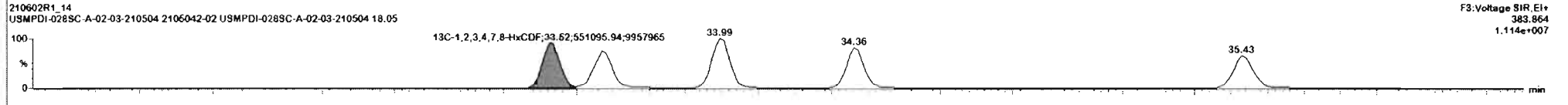
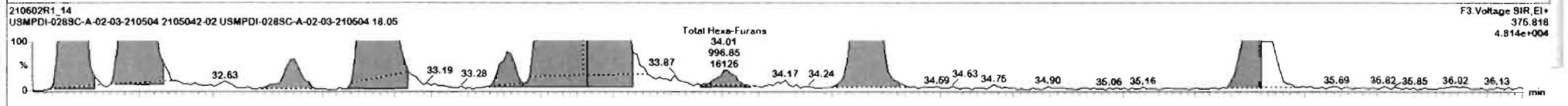
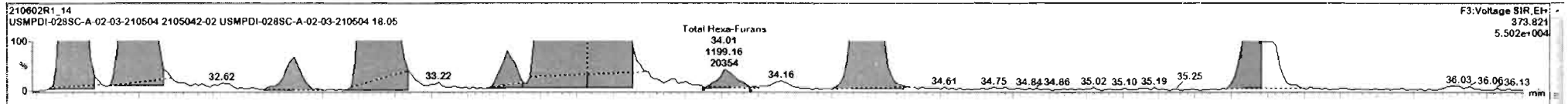


DPE3



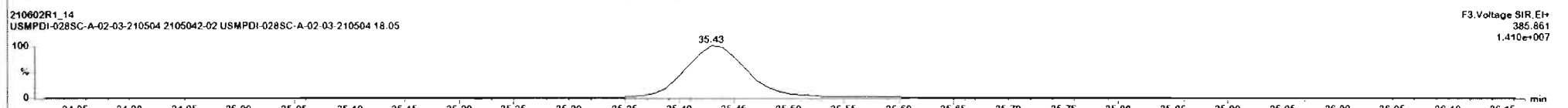
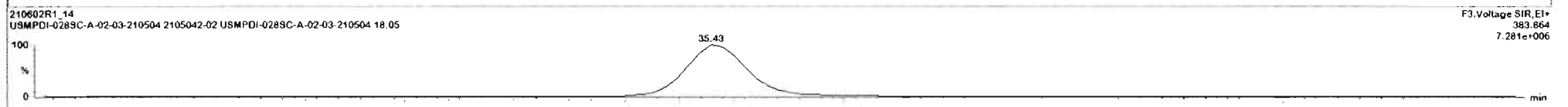
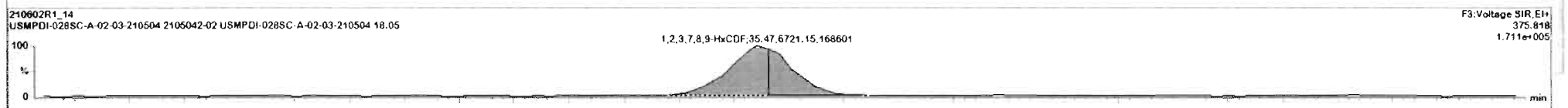
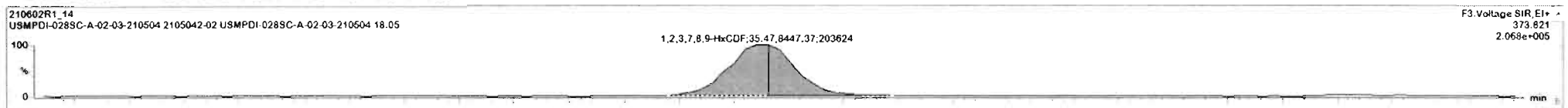
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	9.999			36.9	0.0323		37.6
44 1st Func. Penta-Furans				0.66	9.999			20.2	0.0154		20.2
45 Total Penta-Furans				0.68	9.999			51.1	0.0794		51.9
46 Total Hexa-Furans				0.97	9.999			157	0.0947		157
47 Total Hepta-Furans				1.05	9.999			191	0.175		151
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 NDF1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	3.210e4	2.554e4	1.26	NO	8.0363	8.0363
2 Total Hexa-Furans	32.39	1.041e5	8.357e4	1.25	NO	26.170	26.170
3 Total Hexa-Furans	32.82	1.949e3	1.694e3	1.15	NO	0.50784	0.50784
4 Total Hexa-Furans	33.05	1.349e5	1.066e5	1.24	NO	33.957	33.957
5 Total Hexa-Furans	33.41	1.953e3	1.714e3	1.14	NO	0.51134	0.51134
6 1,2,3,4,7,8-HxCDF	33.54	2.801e5	2.145e5	1.21	NO	63.306	63.306
7 1,2,3,6,7,8-HxCDF	33.89	6.542e4	5.271e4	1.24	NO	17.959	17.959
8 Total Hexa-Furans	34.01	1.199e3	9.988e2	1.20	NO	0.30819	0.30819
9 2,3,4,6,7,8-HxCDF	34.40	1.755e4	1.391e4	1.28	NO	4.2893	4.2893



Name	Resp	RA	nly	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.97	9.999			159	0.0947		159
47 Total Hepta-Furans				1.05	9.999			191	0.175		191
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8-HxCDF	35.47	9.447e3	6.721e2	1.26	NO	2.3794	2.3794
2 2,3,4,6,7,8-HxCDF	34.40	1.765e4	1.351e4	1.28	NO	4.2893	4.2893
3 Total Hexa-Furans	34.01	1.199e3	9.999e2	1.29	NO	0.30619	0.30619
4 1,2,3,6,7,8-HxCDF	33.69	6.542e7	5.271e4	1.24	NO	17.959	17.959
5 1,2,3,4,7,8-HxCDF	33.54	2.821e5	2.145e5	1.21	NO	63.306	63.306
6 Total Hexa-Furans	33.41	1.950e3	1.714e3	1.14	NO	0.51134	0.51134
7 Total Hexa-Furans	33.05	1.349e5	1.086e5	1.24	NO	33.957	33.957
8 Total Hexa-Furans	32.82	1.949e2	1.694e2	1.15	NO	0.50784	0.50784
9 Total Hexa-Furans	32.39	1.641e5	8.357e4	1.25	NO	26.170	26.170
10 Total Hexa-Furans	32.22	3.210e4	2.554e4	1.26	NO	8.0382	8.0382



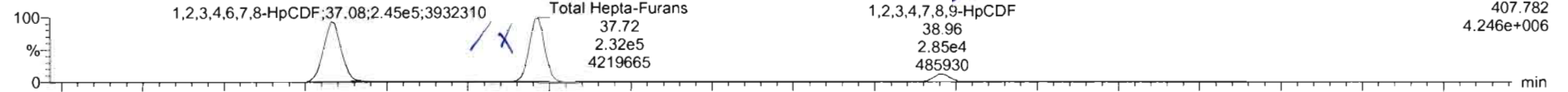
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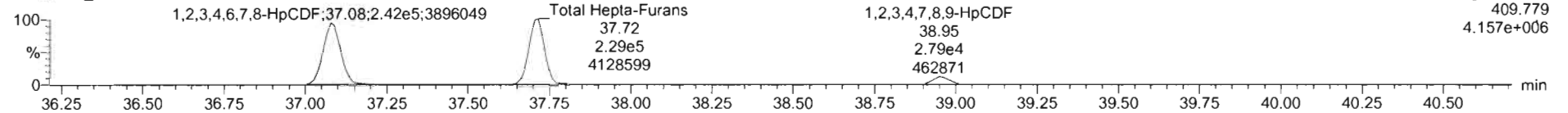
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210602R1_14



210602R1_14

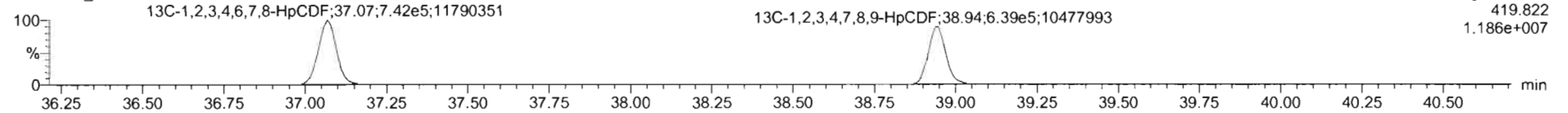


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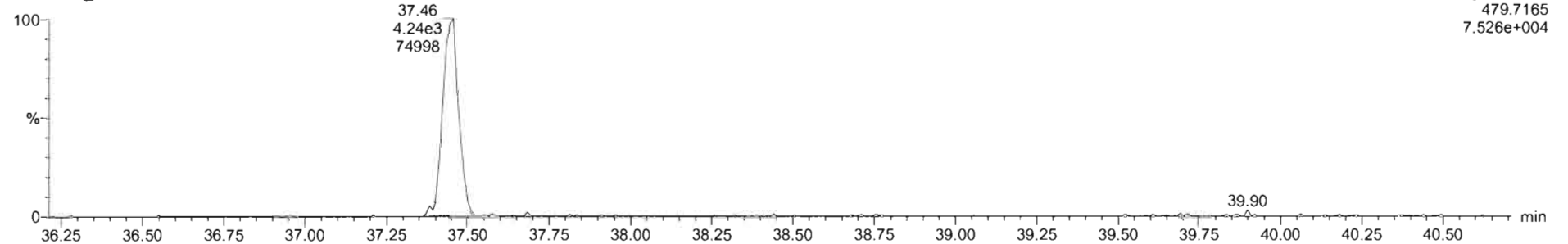


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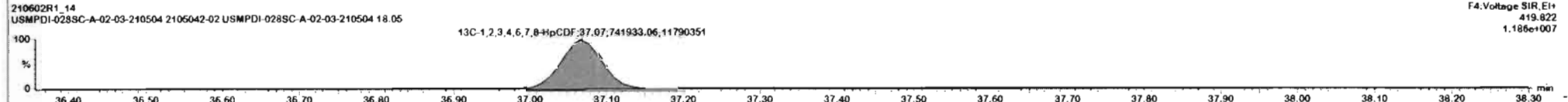
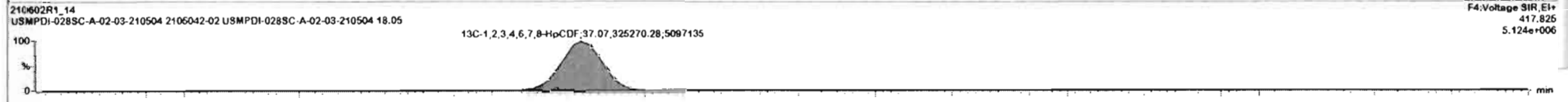
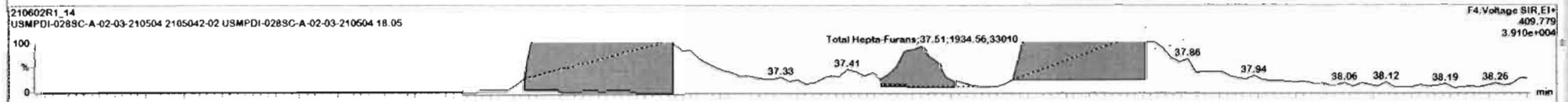
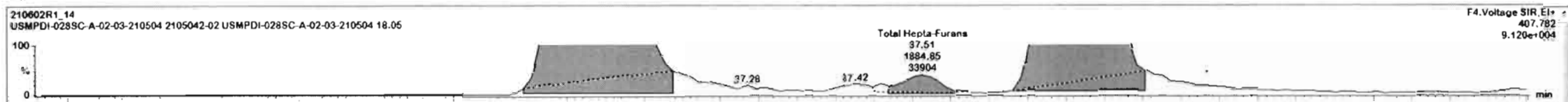
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210602R1_14



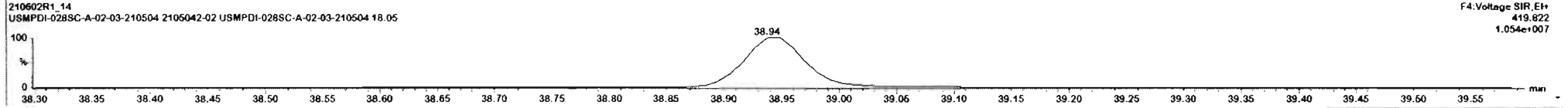
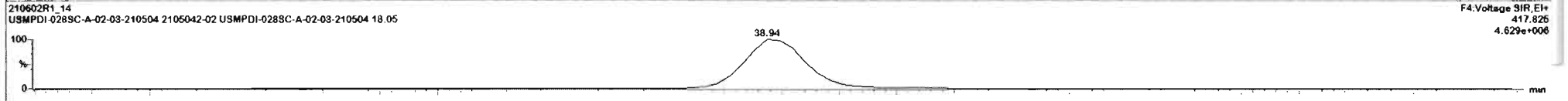
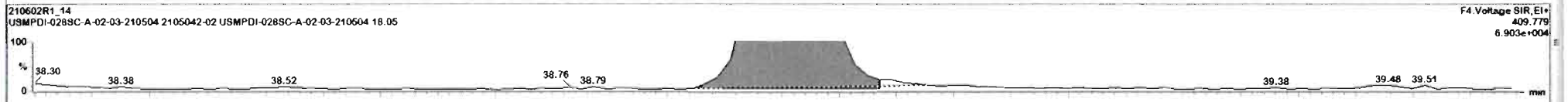
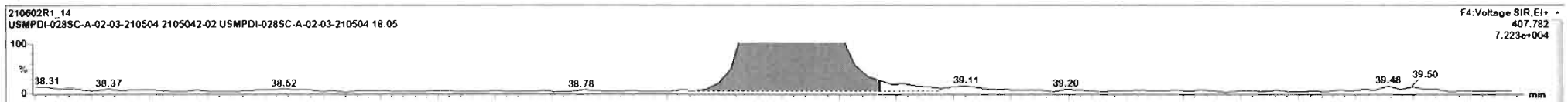
Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	9.999			38.9	0.0223		37.6
44 1st Func Penta-Furans				0.88	9.999			20.2	0.0154		20.2
45 Total Penta-Furans				0.88	9.999			51.1	0.0794		51.9
46 Total Hexa-Furans				0.97	9.999			157	0.0947		157
47 Total Hepta-Furans				1.05	9.999			191	0.175		191
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
Index											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.08	2.495e5	2.473e5	1.01	NO	88.855	88.855
2 Total Hepta-Furans	37.51	1.885e3	1.835e3	0.97	NO	0.73475	0.73475
3 Total Hepta-Furans	37.72	2.348e5	2.319e5	1.01	NO	89.782	89.782
4 1,2,3,4,7,8,9-HpCDF	38.96	2.804e4	2.798e4	1.00	NO	11.689	11.689



Name	Resp	RA	nly	RRF	wtVel	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.75	9.999			38.8	0.0323	37.6	
44 1st Func. Penta-Furans				0.86	9.999			20.2	0.0154	20.2	
45 Total Penta-Furans				0.86	9.999			51.1	0.0794	51.9	
46 Total Hexa-Furans				0.97	9.999			157	0.3947	157	
47 Total Hepta-Furans				1.05	9.999			191	0.175	191	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 npx1											

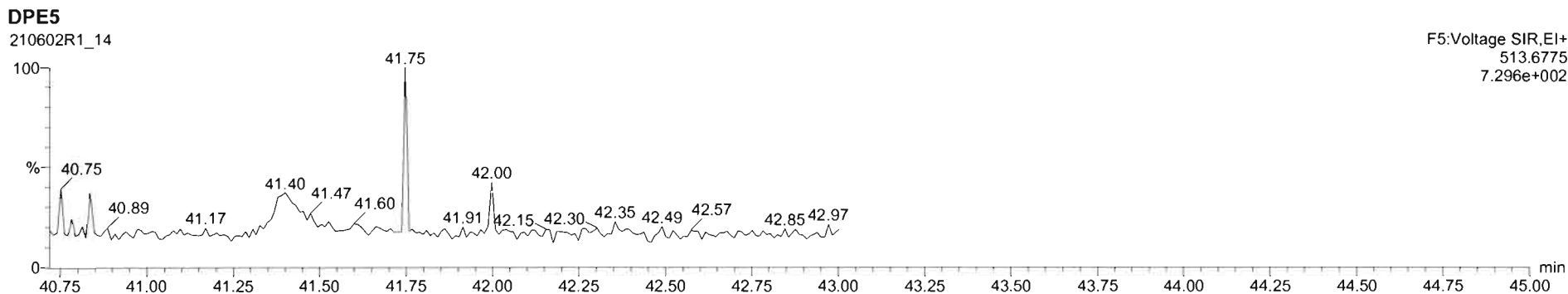
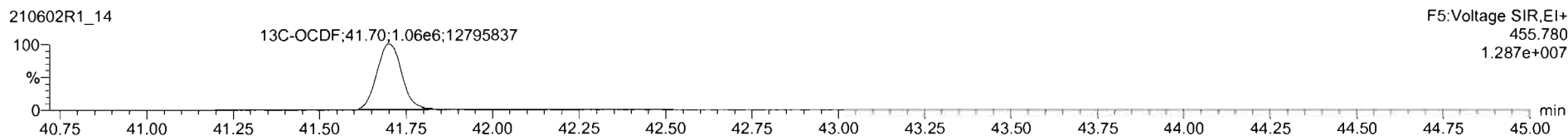
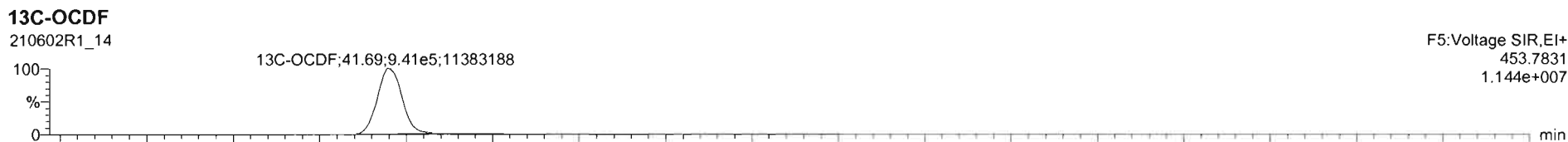
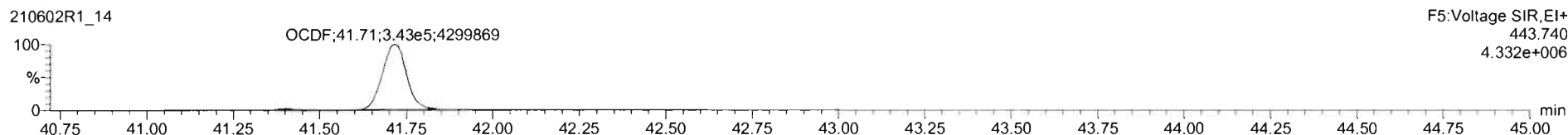
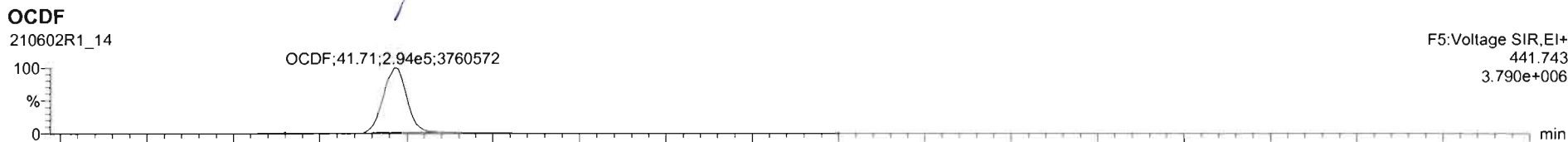
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.08	2.496e5	2.473e5	1.01	NO	88.855	88.855
2 Total Hepta-Furans	37.51	1.895e3	1.935e3	0.97	NO	0.73475	0.73475
3 Total Hepta-Furans	37.72	2.348e5	2.319e5	1.01	NO	89.782	89.782
4 1,2,3,4,7,8,9-HpCDF	38.90	2.804e4	2.798e4	1.00	NO	11.689	11.689



Dataset: U:\VG12.PRO\Results\210602R1\210602R1_14.qld

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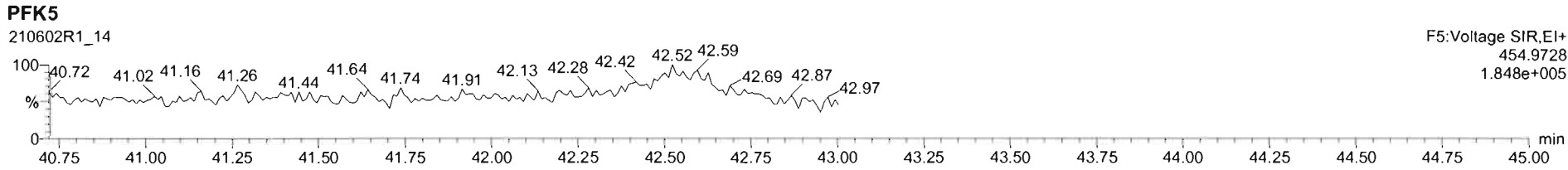
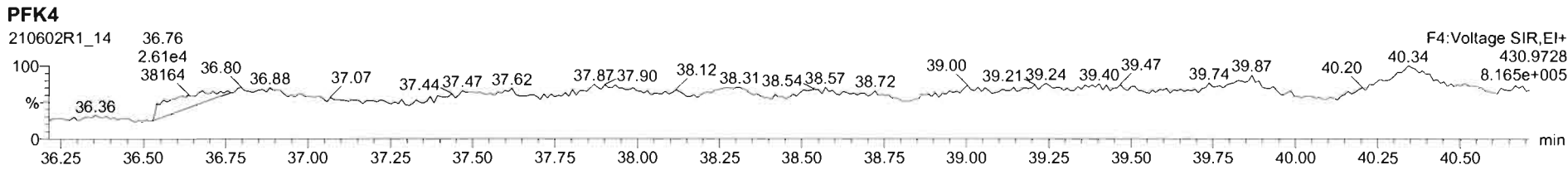
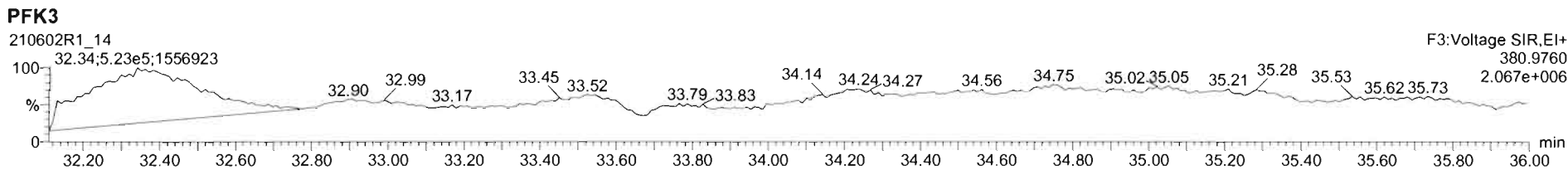
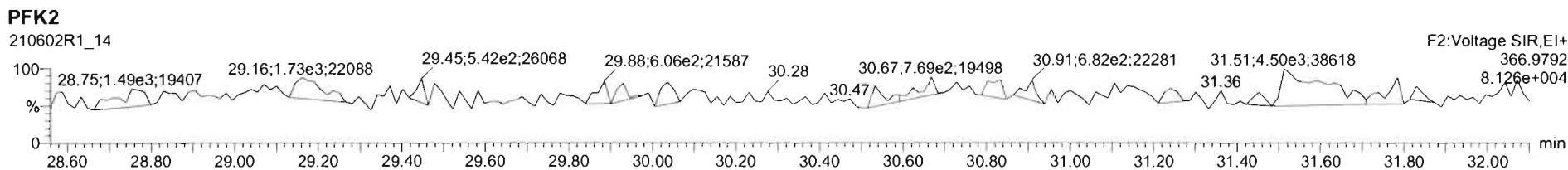
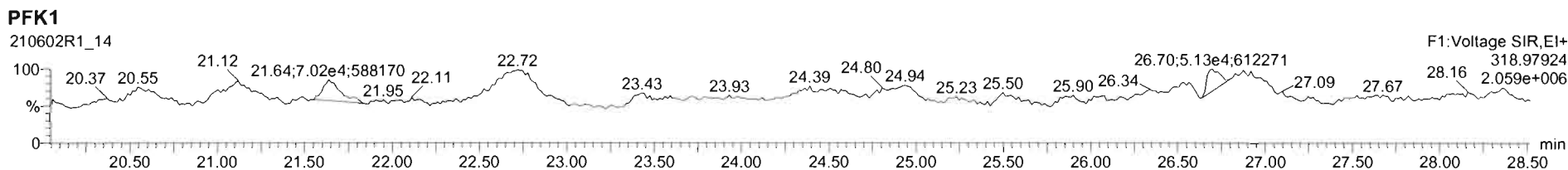
Name: 210602R1_14, Date: 02-Jun-2021, Time: 23:34:59, ID: 2105042-02 USMPDI-028SC-A-02-03-210504 18.05, Description: USMPDI-028SC-A-02-03-210504



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Dataset: U:\VG12.PRO\Results\210602R1\210602R1_15.qld

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DT 06/23/21

CT 06/23/2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
 Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504, Task: ST210602R1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.32e3	0.51	YES	0.929	10.029	26.71	1.001	0.88707		0.0402	0.688
2	1,2,3,7,8-PeCDD	5.38e3	0.64	NO	0.826	10.029	31.10	1.000	0.75138		0.0992	0.751
3	1,2,3,4,7,8-HxCDD	4.02e3	1.23	NO	0.972	10.029	34.47	1.001	0.66284		0.0770	0.663
4	1,2,3,6,7,8-HxCDD	3.11e4	1.23	NO	0.877	10.029	34.59	1.001	5.1440		0.0829	5.14
5	1,2,3,7,8,9-HxCDD	1.43e4	1.25	NO	0.874	10.029	34.87	1.000	2.2759		0.0817	2.28
6	1,2,3,4,6,7,8-HpCDD	4.10e5	1.01	NO	0.899	10.029	38.29	1.001	83.514		0.247	83.5
7	OCDD	3.67e6	0.88	NO	0.852	10.029	41.39	1.000	998.74		0.649	999
8	2,3,7,8-TCDF	2.01e5	0.73	NO	0.747	10.029	26.08	1.001	17.824		0.0338	17.8
9	1,2,3,7,8-PeCDF	2.33e5	1.54	NO	0.877	10.029	29.91	1.001	22.063		0.0991	22.1
10	2,3,4,7,8-PeCDF	1.24e5	1.57	NO	0.962	10.029	30.92	1.000	10.768		0.0909	10.8
11	1,2,3,4,7,8-HxCDF	2.51e5	1.24	NO	0.920	10.029	33.52	1.001	32.476		0.0697	32.5
12	1,2,3,6,7,8-HxCDF	7.17e4	1.23	NO	0.936	10.029	33.66	1.000	8.9423		0.0643	8.94
13	2,3,4,6,7,8-HxCDF	1.95e4	1.29	NO	0.973	10.029	34.37	1.001	2.6264		0.0770	2.63
14	1,2,3,7,8,9-HxCDF	1.31e4	1.14	NO	0.940	10.029	35.46	1.001	2.0454		0.0974	2.05
15	1,2,3,4,6,7,8-HpCDF	1.29e5	1.02	NO	1.05	10.029	37.07	1.001	23.180		0.0889	23.2
16	1,2,3,4,7,8,9-HpCDF	2.46e4	0.99	NO	1.05	10.029	38.95	1.000	5.0198		0.0971	5.02
17	OCDF	1.78e5	0.85	NO	0.771	10.029	41.70	1.000	46.173		0.134	46.2
18	13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.10	10.029	26.70	1.028	122.91	61.6	0.0620	
19	13C-1,2,3,7,8-PeCDD	1.73e6	0.64	NO	0.864	10.029	31.09	1.198	211.18	106	0.112	
20	13C-1,2,3,4,7,8-HxCDD	1.24e6	1.28	NO	0.746	10.029	34.44	1.014	184.49	92.5	0.187	
21	13C-1,2,3,6,7,8-HxCDD	1.38e6	1.26	NO	0.847	10.029	34.57	1.018	180.07	90.3	0.165	
22	13C-1,2,3,7,8,9-HxCDD	1.43e6	1.25	NO	0.868	10.029	34.86	1.026	182.48	91.5	0.161	
23	13C-1,2,3,4,6,7,8-HpCDD	1.09e6	1.05	NO	0.664	10.029	38.27	1.126	181.68	91.1	0.279	
24	13C-OCDD	1.72e6	0.89	NO	0.561	10.029	41.38	1.218	339.44	85.1	0.349	
25	13C-2,3,7,8-TCDF	3.01e6	0.77	NO	1.09	10.029	26.05	1.003	185.02	92.8	0.0674	
26	13C-1,2,3,7,8-PeCDF	2.41e6	1.60	NO	0.809	10.029	29.90	1.152	199.49	100	0.205	
27	13C-2,3,4,7,8-PeCDF	2.38e6	1.59	NO	0.803	10.029	30.91	1.191	199.05	99.8	0.206	
28	13C-1,2,3,4,7,8-HxCDF	1.68e6	0.51	NO	1.01	10.029	33.50	0.986	183.58	92.1	0.284	
29	13C-1,2,3,6,7,8-HxCDF	1.71e6	0.51	NO	1.07	10.029	33.65	0.990	176.34	88.4	0.267	
30	13C-2,3,4,6,7,8-HxCDF	1.52e6	0.51	NO	0.910	10.029	34.34	1.011	185.19	92.9	0.316	

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_15.qld

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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504, Task: ST210602R1

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.36e6	0.51	NO	0.828	10.029	35.42	1.043	181.82	91.2	0.347	
32	13C-1,2,3,4,6,7,8-HpCDF	1.06e6	0.44	NO	0.661	10.029	37.05	1.090	177.10	88.8	0.283	
33	13C-1,2,3,4,7,8,9-HpCDF	9.36e5	0.44	NO	0.566	10.029	38.94	1.146	183.36	92.0	0.331	
34	13C-OCDF	2.00e6	0.89	NO	0.663	10.029	41.69	1.227	334.16	83.8	0.236	
35	37Cl-2,3,7,8-TCDD	1.36e6			2.07	10.029	26.70	1.028	69.362	87.0	0.0209	
36	13C-1,2,3,4-TCDD	1.89e6	0.79	NO	1.00	10.029	25.96	1.000	199.41	100	0.0685	
37	13C-1,2,3,4-TCDF	2.97e6	0.79	NO	1.00	10.029	24.63	1.000	199.41	100	0.0737	
38	13C-1,2,3,4,6,9-HxCDF	1.80e6	0.51	NO	1.00	10.029	33.97	1.000	199.41	100	0.287	
39	Total Tetra-Dioxins				0.929	10.029			8.3082		0.0492	9.31
40	Total Penta-Dioxins				0.826	10.029			8.7626		0.0992	9.34
41	Total Hexa-Dioxins				0.877	10.029			46.861		0.0831	46.9
42	Total Hepta-Dioxins				0.899	10.029			178.89		0.247	179
43	Total Tetra-Furans				0.747	10.029			60.007		0.0338	60.8
44	1st Func. Penta-Furans				0.877	10.029			10.270		0.0133	10.3
45	Total Penta-Furans				0.877	10.029			58.401		0.0994	58.8
46	Total Hexa-Furans				0.973	10.029			77.458		0.0736	77.5
47	Total Hepta-Furans				1.05	10.029			64.169		0.0927	64.2

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Dataset: U:\VG12.PRO\Results\210602R1\210602R1_15.qld

Last Altered: Wednesday, June 23, 2021 12:57:15 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504, Task: ST210602R1

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	7.037e4	9.153e4	5.539e3	7.066e3	0.78	NO	1.260e4	2.1033	2.1033	0.0492
2	Total Tetra-Dioxins	23.58	3.729e4	5.372e4	2.867e3	3.902e3	0.73	NO	6.769e3	1.1296	1.1296	0.0492
3	Total Tetra-Dioxins	24.03	3.185e4	4.499e4	2.232e3	2.898e3	0.77	NO	5.130e3	0.85609	0.85609	0.0492
4	Total Tetra-Dioxins	24.77	2.107e4	2.733e4	1.511e3	1.875e3	0.81	NO	3.385e3	0.56491	0.56491	0.0492
5	Total Tetra-Dioxins	24.98	1.622e4	1.889e4	1.238e3	1.649e3	0.75	NO	2.887e3	0.48175	0.48175	0.0492
6	Total Tetra-Dioxins	25.19	3.285e4	3.402e4	1.899e3	2.529e3	0.75	NO	4.428e3	0.73895	0.73895	0.0492
7	Total Tetra-Dioxins	25.36	8.187e3	1.020e4	5.461e2	6.873e2	0.79	NO	1.233e3	0.20579	0.20579	0.0492
8	Total Tetra-Dioxins	25.62	1.673e4	2.047e4	1.095e3	1.375e3	0.80	NO	2.470e3	0.41216	0.41216	0.0492
9	Total Tetra-Dioxins	25.70	2.293e4	1.880e4	9.182e2	1.103e3	0.83	NO	2.021e3	0.33725	0.33725	0.0492
10	Total Tetra-Dioxins	26.06	1.650e4	1.593e4	1.088e3	1.049e3	1.04	YES	0.000e0	0.00000	0.30986	0.0492
11	Total Tetra-Dioxins	26.43	3.461e4	5.072e4	2.582e3	3.542e3	0.73	NO	6.124e3	1.0219	1.0219	0.0492
12	2,3,7,8-TCDD	26.71	3.416e4	6.581e4	1.793e3	3.524e3	0.51	YES	5.316e3	0.00000	0.68755	0.0492
13	Total Tetra-Dioxins	26.99	1.315e4	1.734e4	8.348e2	1.069e3	0.78	NO	1.904e3	0.31776	0.31776	0.0492
14	Total Tetra-Dioxins	27.52	6.774e3	8.757e3	3.654e2	4.666e2	0.78	NO	8.321e2	0.13884	0.13884	0.0492

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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504, Task: ST210602R1

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.95	1.037e5	1.702e5	7.577e3	1.304e4	0.58	NO	2.062e4	2.8808	2.8808	0.0992
2	Total Penta-Dioxins	29.40	3.887e4	6.530e4	2.270e3	3.505e3	0.65	NO	5.775e3	0.80678	0.80678	0.0992
3	Total Penta-Dioxins	29.90	8.438e4	1.063e5	3.769e3	5.346e3	0.71	NO	9.115e3	1.2734	1.2734	0.0992
4	Total Penta-Dioxins	30.07	5.317e4	8.278e4	2.929e3	4.959e3	0.59	NO	7.888e3	1.1019	1.1019	0.0992
5	Total Penta-Dioxins	30.13	2.736e4	4.661e4	8.604e2	1.401e3	0.61	NO	2.261e3	0.31592	0.31592	0.0992
6	Total Penta-Dioxins	30.37	5.604e4	9.852e4	3.914e3	6.270e3	0.62	NO	1.018e4	1.4228	1.4228	0.0992
7	Total Penta-Dioxins	30.65	1.359e4	1.681e4	7.518e2	9.772e2	0.77	YES	0.000e0	0.00000	0.22254	0.0992
8	1,2,3,7,8-PeCDD	31.10	4.466e4	7.524e4	2.104e3	3.275e3	0.64	NO	5.378e3	0.75138	0.75138	0.0992
9	Total Penta-Dioxins	31.18	1.535e4	1.583e4	5.825e2	9.182e2	0.63	NO	1.501e3	0.20966	0.20966	0.0992
10	Total Penta-Dioxins	31.45	1.437e4	3.073e4	7.420e2	1.474e3	0.50	YES	0.000e0	0.00000	0.26819	0.0992
11	Total Penta-Dioxins	31.53	5.482e3	1.878e4	2.431e2	1.223e3	0.20	YES	0.000e0	0.00000	0.087871	0.0992

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	9.359e5	7.567e5	4.610e4	3.658e4	1.26	NO	8.268e4	13.931	13.931	0.0831
2	Total Hexa-Dioxins	33.37	8.954e4	7.655e4	4.778e3	3.869e3	1.23	NO	8.647e3	1.4570	1.4570	0.0831
3	Total Hexa-Dioxins	33.67	1.132e6	9.027e5	7.371e4	5.885e4	1.25	NO	1.326e5	22.336	22.336	0.0831
4	Total Hexa-Dioxins	33.74	3.832e4	3.664e4	2.031e3	1.915e3	1.06	NO	3.946e3	0.66493	0.66493	0.0831
5	1,2,3,4,7,8-HxCDD	34.47	3.555e4	3.815e4	2.214e3	1.801e3	1.23	NO	4.015e3	0.66284	0.66284	0.0770
6	1,2,3,6,7,8-HxCDD	34.59	3.181e5	2.460e5	1.720e4	1.393e4	1.23	NO	3.113e4	5.1440	5.1440	0.0829
7	Total Hexa-Dioxins	34.75	2.840e4	1.927e4	1.352e3	9.617e2	1.41	NO	2.314e3	0.38993	0.38993	0.0831
8	1,2,3,7,8,9-HxCDD	34.87	1.318e5	1.021e5	7.913e3	6.348e3	1.25	NO	1.426e4	2.2759	2.2759	0.0817

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	4.097e6	4.070e6	2.362e5	2.318e5	1.02	NO	4.680e5	95.378	95.378	0.247
2	1,2,3,4,6,7,8-HpCDD	38.29	3.614e6	3.529e6	2.059e5	2.040e5	1.01	NO	4.098e5	83.514	83.514	0.247

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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504, Task: ST210602R1

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.15	1.724e4	2.020e4	1.223e3	1.783e3	0.69	NO	3.006e3	0.26647	0.26647	0.0338
2	Total Tetra-Furans	21.76	5.250e4	6.119e4	4.231e3	5.576e3	0.76	NO	9.807e3	0.86938	0.86938	0.0338
3	Total Tetra-Furans	22.51	1.813e5	2.396e5	1.466e4	1.986e4	0.74	NO	3.453e4	3.0610	3.0610	0.0338
4	Total Tetra-Furans	22.84	3.049e4	4.161e4	2.330e3	2.737e3	0.85	NO	5.067e3	0.44917	0.44917	0.0338
5	Total Tetra-Furans	22.95	7.592e4	1.008e5	6.729e3	9.350e3	0.72	NO	1.608e4	1.4255	1.4255	0.0338
6	Total Tetra-Furans	23.03	3.905e4	4.999e4	2.094e3	2.840e3	0.74	NO	4.935e3	0.43747	0.43747	0.0338
7	Total Tetra-Furans	23.24	2.678e4	2.949e4	1.082e3	1.408e3	0.77	NO	2.490e3	0.22077	0.22077	0.0338
8	Total Tetra-Furans	23.33	3.209e5	4.463e5	2.652e4	3.572e4	0.74	NO	6.225e4	5.5184	5.5184	0.0338
9	Total Tetra-Furans	23.72	1.563e5	2.174e5	1.157e4	1.609e4	0.72	NO	2.766e4	2.4518	2.4518	0.0338
10	Total Tetra-Furans	23.84	6.485e4	8.317e4	4.483e3	5.711e3	0.79	NO	1.019e4	0.90366	0.90366	0.0338
11	Total Tetra-Furans	24.05	9.930e4	1.352e5	7.002e3	9.322e3	0.75	NO	1.632e4	1.4472	1.4472	0.0338
12	Total Tetra-Furans	24.42	1.859e4	2.234e4	1.296e3	1.557e3	0.83	NO	2.853e3	0.25291	0.25291	0.0338
13	Total Tetra-Furans	24.51	4.057e4	5.802e4	2.729e3	3.713e3	0.73	NO	6.442e3	0.57109	0.57109	0.0338
14	Total Tetra-Furans	24.73	1.877e5	2.584e5	1.935e4	2.648e4	0.73	NO	4.583e4	4.0632	4.0632	0.0338
15	Total Tetra-Furans	25.14	1.024e6	1.398e6	6.783e4	9.134e4	0.74	NO	1.592e5	14.111	14.111	0.0338
16	Total Tetra-Furans	25.44	6.221e4	7.838e4	3.725e3	5.297e3	0.70	NO	9.023e3	0.79988	0.79988	0.0338
17	Total Tetra-Furans	25.54	1.231e4	1.978e4	6.220e2	9.035e2	0.69	NO	1.525e3	0.13524	0.13524	0.0338
18	Total Tetra-Furans	25.63	5.689e3	8.931e3	3.365e2	4.772e2	0.71	NO	8.137e2	0.072134	0.072134	0.0338
19	Total Tetra-Furans	25.81	3.173e4	3.347e4	1.759e3	2.100e3	0.84	NO	3.859e3	0.34207	0.34207	0.0338
20	Total Tetra-Furans	25.94	1.368e5	1.868e5	8.449e3	1.237e4	0.68	NO	2.082e4	1.8454	1.8454	0.0338
21	2,3,7,8-TCDF	26.08	1.384e6	1.879e6	8.518e4	1.159e5	0.73	NO	2.011e5	17.824	17.824	0.0338
22	Total Tetra-Furans	26.28	4.114e4	4.802e4	1.691e3	2.277e3	0.74	NO	3.969e3	0.35183	0.35183	0.0338
23	Total Tetra-Furans	26.36	9.984e4	1.314e5	6.482e3	8.576e3	0.76	NO	1.506e4	1.3349	1.3349	0.0338
24	Total Tetra-Furans	26.59	1.815e4	2.527e4	9.960e2	1.463e3	0.68	NO	2.459e3	0.21802	0.21802	0.0338
25	Total Tetra-Furans	27.23	1.990e4	1.135e4	9.330e2	6.440e2	1.45	YES	0.000e0	0.00000	0.10106	0.0338
26	Total Tetra-Furans	27.45	3.036e4	3.513e4	2.000e3	2.256e3	0.89	YES	0.000e0	0.00000	0.35396	0.0338
27	Total Tetra-Furans	27.66	6.165e4	3.923e4	3.518e3	2.198e3	1.60	YES	0.000e0	0.00000	0.34485	0.0338
28	Total Tetra-Furans	27.85	8.575e4	1.250e5	4.833e3	6.831e3	0.71	NO	1.166e4	1.0341	1.0341	0.0338

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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504, Task: ST210602R1

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	1.213e6	7.336e5	6.668e4	4.143e4	1.61	NO	1.081e5	10.270	10.270	0.0133

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	1.208e5	8.262e4	6.953e3	4.888e3	1.42	NO	1.184e4	1.1248	1.1248	0.0994
2	Total Penta-Furans	28.98	1.458e6	9.298e5	8.716e4	5.630e4	1.55	NO	1.435e5	13.627	13.627	0.0994
3	Total Penta-Furans	29.42	1.946e4	1.357e4	1.300e3	9.677e2	1.34	NO	2.268e3	0.21542	0.21542	0.0994
4	Total Penta-Furans	29.57	2.029e5	1.243e5	1.439e4	9.009e3	1.60	NO	2.340e4	2.2230	2.2230	0.0994
5	Total Penta-Furans	29.72	3.122e5	2.147e5	1.399e4	9.334e3	1.50	NO	2.332e4	2.2153	2.2153	0.0994
6	1,2,3,7,8-PeCDF	29.91	2.723e6	1.774e6	1.416e5	9.184e4	1.54	NO	2.335e5	22.063	22.063	0.0991
7	Total Penta-Furans	30.17	8.197e5	4.827e5	3.370e4	2.125e4	1.59	NO	5.495e4	5.2193	5.2193	0.0994
8	Total Penta-Furans	30.67	1.164e4	8.307e3	6.203e2	4.099e2	1.51	NO	1.030e3	0.097848	0.097848	0.0994
9	Total Penta-Furans	30.76	4.910e4	2.880e4	2.385e3	1.380e3	1.73	NO	3.765e3	0.35759	0.35759	0.0994
10	2,3,4,7,8-PeCDF	30.92	1.405e6	9.080e5	7.566e4	4.805e4	1.57	NO	1.237e5	10.768	10.768	0.0909
11	Total Penta-Furans	31.74	6.931e4	4.125e4	3.148e3	1.680e3	1.87	YES	0.000e0	0.00000	0.40686	0.0994
12	Total Penta-Furans	31.83	6.706e4	4.352e4	3.190e3	1.964e3	1.62	NO	5.154e3	0.48958	0.48958	0.0994

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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504, Task: ST210602R1**Hexa-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.19	2.724e5	2.103e5	1.239e4	9.665e3	1.28	NO	2.206e4	2.8885	2.8885	0.0736
2	Total Hexa-Furans	32.37	9.459e5	7.813e5	4.450e4	3.681e4	1.21	NO	8.131e4	10.649	10.649	0.0736
3	Total Hexa-Furans	32.79	2.542e4	1.600e4	1.258e3	9.185e2	1.37	NO	2.176e3	0.28502	0.28502	0.0736
4	Total Hexa-Furans	33.03	1.246e6	1.017e6	6.391e4	5.156e4	1.24	NO	1.155e5	15.123	15.123	0.0736
5	Total Hexa-Furans	33.40	3.329e4	2.979e4	1.755e3	1.447e3	1.21	NO	3.202e3	0.41939	0.41939	0.0736
6	1,2,3,4,7,8-HxCDF	33.52	2.734e6	2.227e6	1.388e5	1.122e5	1.24	NO	2.510e5	32.476	32.476	0.0697
7	1,2,3,6,7,8-HxCDF	33.66	7.483e5	6.227e5	3.959e4	3.212e4	1.23	NO	7.172e4	8.9423	8.9423	0.0643
8	Total Hexa-Furans	33.99	1.898e4	1.899e4	1.027e3	9.518e2	1.08	NO	1.978e3	0.25911	0.25911	0.0736
9	2,3,4,6,7,8-HxCDF	34.37	1.608e5	1.280e5	1.097e4	8.499e3	1.29	NO	1.947e4	2.6264	2.6264	0.0770
10	1,2,3,7,8,9-HxCDF	35.46	2.154e5	1.671e5	6.984e3	6.116e3	1.14	NO	1.310e4	2.0454	2.0454	0.0974
11	Total Hexa-Furans	35.46	2.138e5	1.671e5	7.418e3	5.895e3	1.26	NO	1.331e4	1.7436	1.7436	0.0736

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.07	1.074e6	1.048e6	6.484e4	6.384e4	1.02	NO	1.287e5	23.180	23.180	0.0889
2	Total Hepta-Furans	37.48	2.264e4	2.391e4	1.213e3	1.329e3	0.91	NO	2.542e3	0.48552	0.48552	0.0927
3	Total Hepta-Furans	37.69	1.750e6	1.663e6	9.351e4	9.228e4	1.01	NO	1.858e5	35.483	35.483	0.0927
4	1,2,3,4,7,8,9-HpCDF	38.95	2.138e5	2.095e5	1.229e4	1.235e4	0.99	NO	2.464e4	5.0198	5.0198	0.0971

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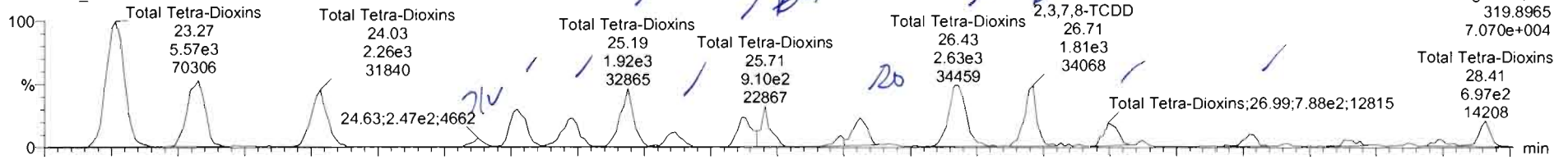
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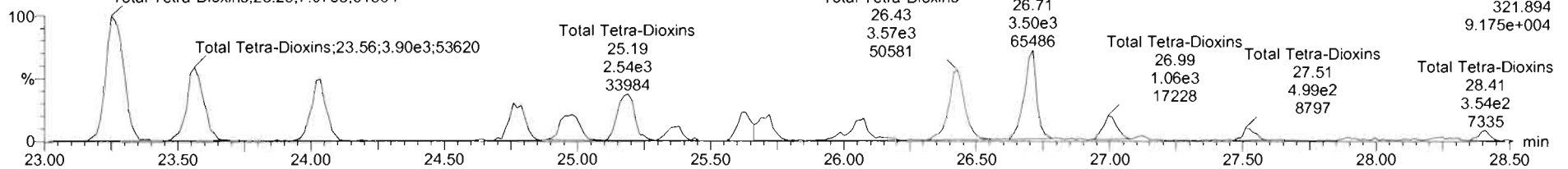
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2,3,7,8-TCDD

210602R1_15

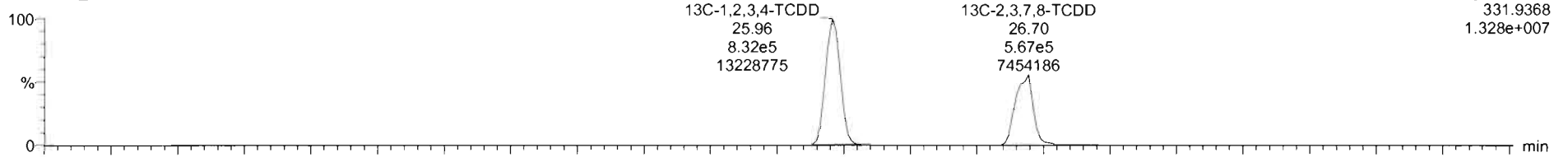


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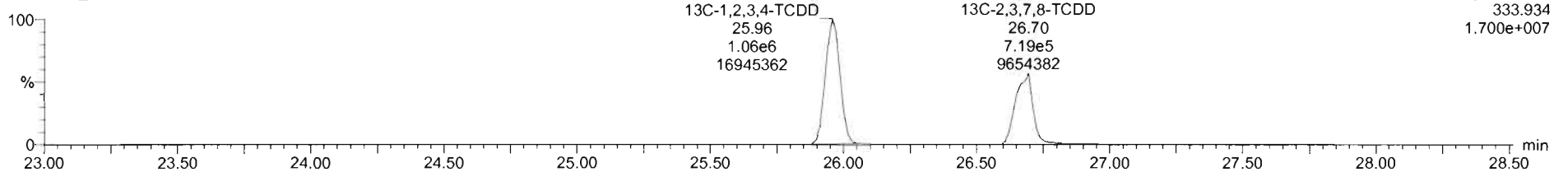


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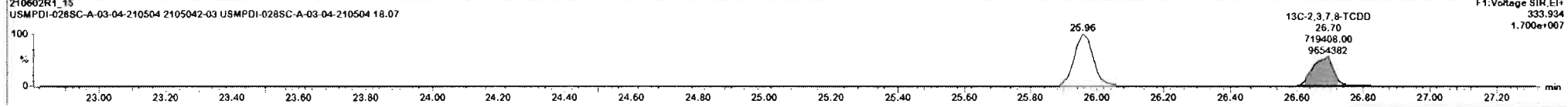
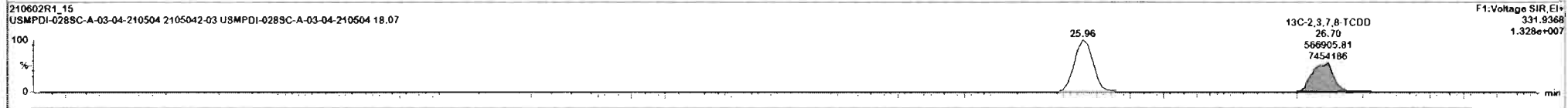
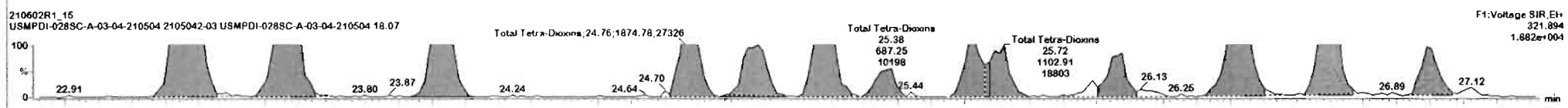
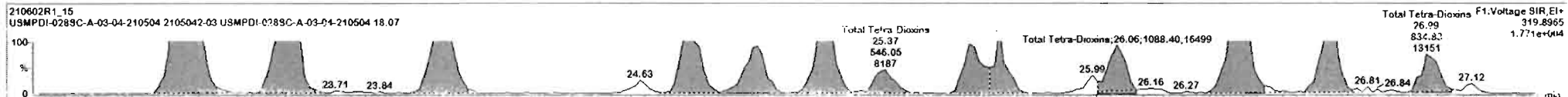
210602R1_15



210602R1_15 - 2105042-03 USMPDI-028SC-A-03-04-210504 18.07 - USMPDI-028SC-A-03-04-210504

#	Name	Resp	S Resp	ISr	RA	nly	RRF	w0vc1	Pred RT	RT	RRT	Pred RRT	Cl ec1 RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins		1.29e8				0.9291	10.029	24.62			0.000	NO	8.31		0.0492	9.41
40	Total Penta-Dioxins		1.73e8				0.8257	10.029	29.96			0.000	NO	8.75		0.0592	9.34
41	Total Hexa-Dioxins		0.00e0				0.8771	10.029	33.63			0.000	NO	46.9		0.0831	48.9
42	Total Hepta-Dioxins		1.05e8				0.8987	10.029	37.64			0.000	NO	179		0.247	179
43	Total Tetra-Furans		3.01e8				0.7488	10.029	23.61			0.000	NO	89.0		0.0335	89.0
44	1st Func. Penta-Furans		0.00e0				0.8771	10.029	27.62			0.000	NO	19.3		0.0133	19.3
45	Total Penta-Furans		0.00e0				0.8771	10.029	29.21			0.000	NO	58.2		0.0994	58.6
46	Total Hexa-Furans		0.00e0				0.9725	10.029	33.56			0.000	NO	74.8		0.0736	74.8
47	Total Hepta-Furans		0.00e0				1.0481	10.029	37.83			0.000	NO	84.3		0.0527	84.3
48	PFK1																
49	PFK2																

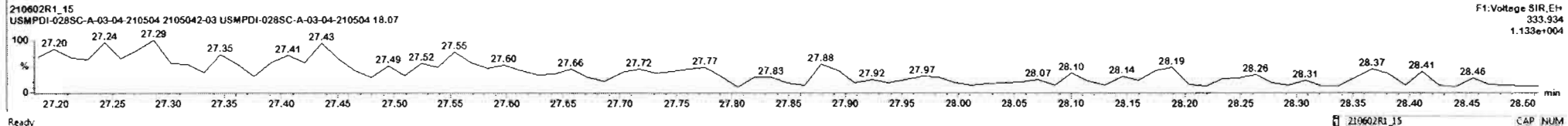
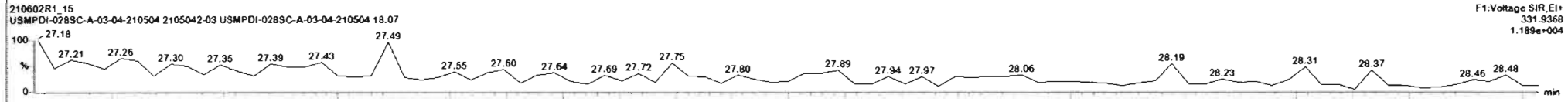
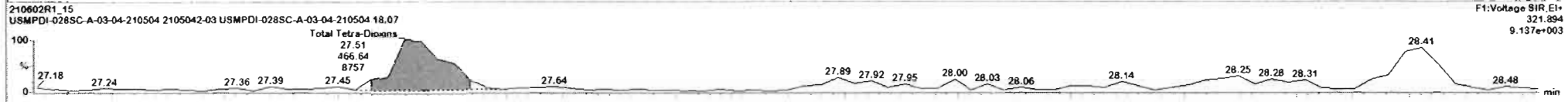
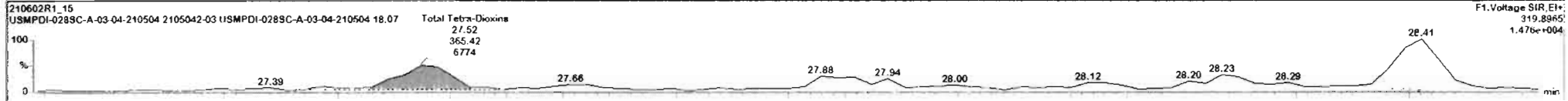
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
2,3,7,8-TCDD	26.71	1.731e3	3.524e3	0.51	YES	0.68755	0.00000
Total Tetra-Dioxins	26.43	2.582e3	3.542e3	0.73	NO	1.0219	1.0219
Total Tetra-Dioxins	26.06	1.088e3	1.049e3	1.04	YES	0.30986	0.00000
Total Tetra-Dioxins	25.71	9.162e2	1.103e3	0.83	NO	0.33725	0.33725
Total Tetra-Dioxins	25.62	1.095e3	1.375e3	0.30	NO	0.41216	0.41216
Total Tetra-Dioxins	25.37	5.461e2	8.873e2	0.79	NO	0.20579	0.20579
Total Tetra-Dioxins	25.19	1.899e2	2.529e3	0.75	NO	0.73895	0.73895
Total Tetra-Dioxins	24.98	1.238e2	1.649e3	0.75	NO	0.48175	0.48175



210602R1_15 - 2105042-03 USMPDI-028SC-A-03-04-210504 18.07 - USMPDI-028SC-A-03-04-210504

#	Name	Resp	IS Resp	ISr	RA	n/y	RRF	wt/val	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins		1.29e6				0.9291	10.029	24.62			0.060	NO	8.31	0.0492	9.31	
40	Total Penta-Dioxins		1.73e6				0.8257	10.029	29.96			0.060	NO	8.78	0.0642	9.31	
41	Total Hexa-Dioxins		0.00e0				0.2771	10.029	33.63			0.060	NO	46.5	0.0831	44.9	
42	Total Hepta-Dioxins		1.05e6				0.8967	10.029	37.64			0.060	NO	179	0.247	179	
43	Total Tetra-Furans		3.01e6				0.7496	10.029	23.61			0.060	NO	59.0	0.0338	55.8	
44	1st Func. Penta-Furans		0.00e0				0.2771	10.029	27.62			0.060	NO	10.1	0.0133	10.3	
45	Total Penta-Furans		0.00e0				0.2771	10.029	29.27			0.060	NO	58.2	0.0994	58.6	
46	Total Hexa-Furans		0.00e0				0.9725	10.029	33.56			0.060	NO	74.8	0.0795	74.6	
47	Total Hepta-Furans		0.00e0				1.0467	10.029	37.63			0.060	NO	64.3	0.0927	64.3	
48	PFK1																
49	PFK2																

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	2,3,7,8-TCDD	26.71	1.79e3	3.52e3	0.51	YES	0.66755	0.00000
2	Total Tetra-Dioxins	26.43	2.582e3	3.542e3	0.73	NO	1.0219	1.0219
3	Total Tetra-Dioxins	26.06	1.068e3	1.049e3	1.04	YES	0.30988	0.00000
4	Total Tetra-Dioxins	25.71	9.182e2	1.103e3	0.83	NO	0.33725	0.33725
5	Total Tetra-Dioxins	25.62	1.095e3	1.375e3	0.80	NO	0.41216	0.41216
6	Total Tetra-Dioxins	25.37	5.461e2	8.873e2	0.76	NO	0.20579	0.20579
7	Total Tetra-Dioxins	25.19	1.889e3	2.529e3	0.75	NO	0.73895	0.73895
8	Total Tetra-Dioxins	24.98	1.235e3	1.649e3	0.75	NO	0.48175	0.48175



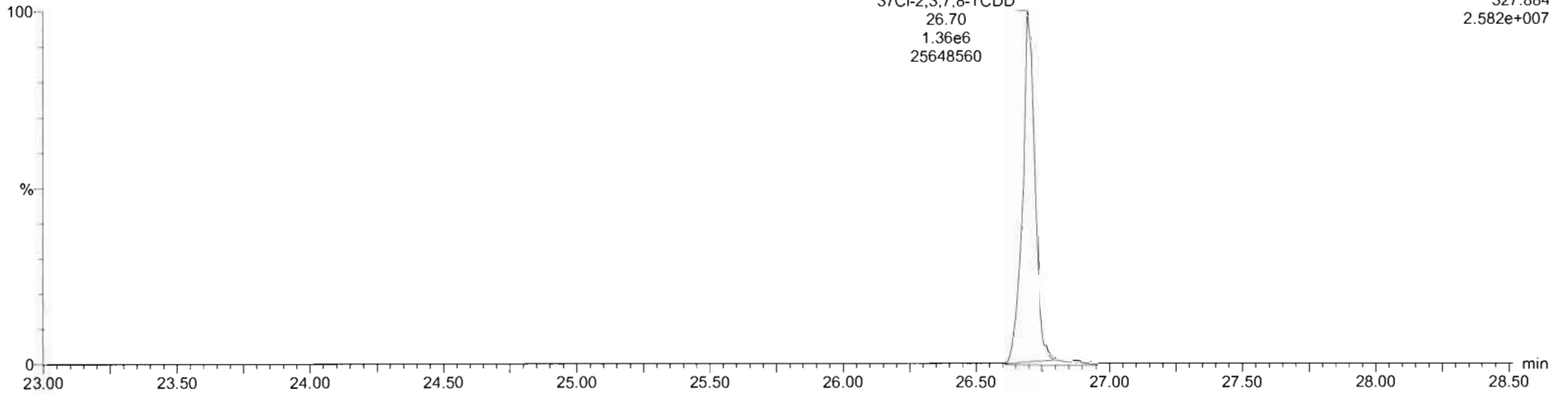
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Printed: Thursday, June 03, 2021 14:57:33 Pacific Daylight Time

Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504

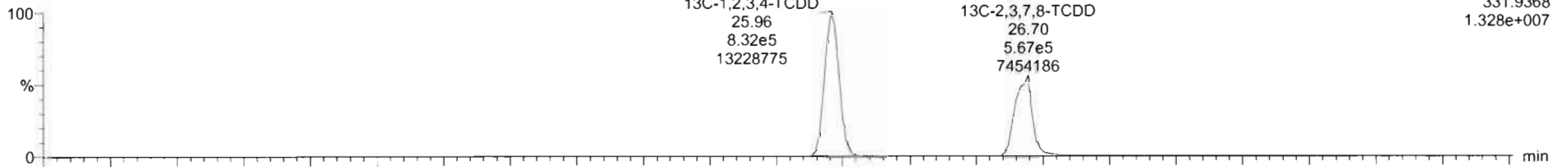
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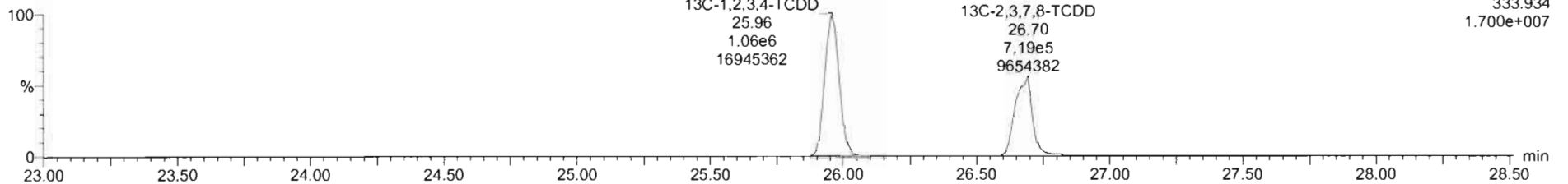


13C-1,2,3,4-TCDD

210602R1_15



210602R1_15



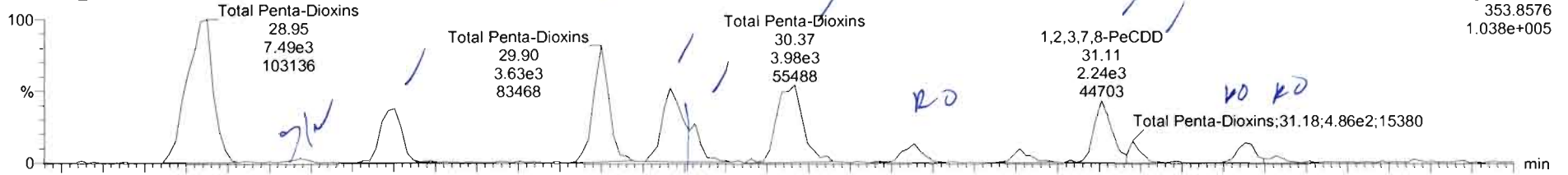
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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504

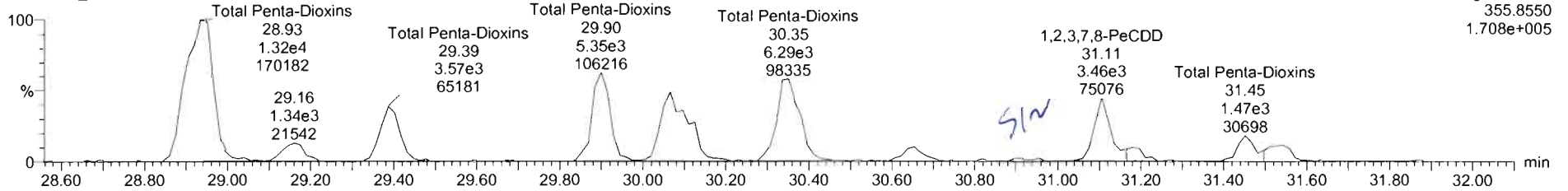
1,2,3,7,8-PeCDD

210602R1_15



F2:Voltage SIR,EI+
353.8576
1.038e+005

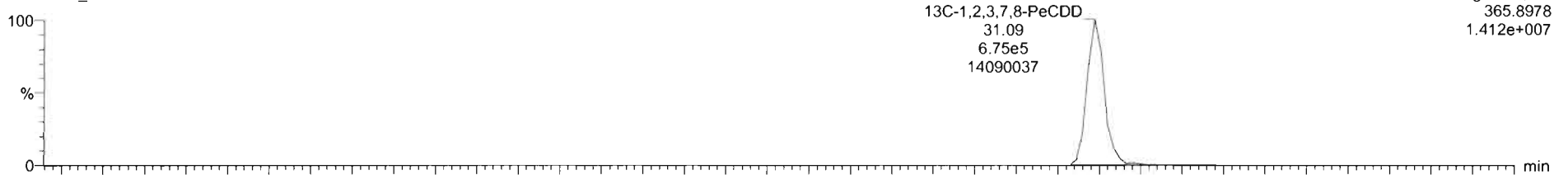
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F2:Voltage SIR,EI+
355.8550
1.708e+005

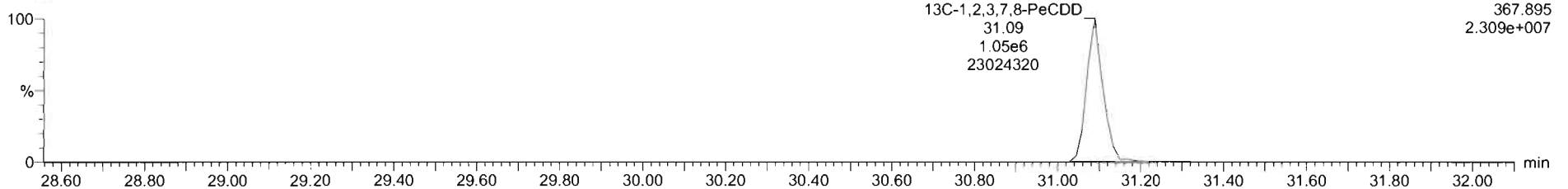
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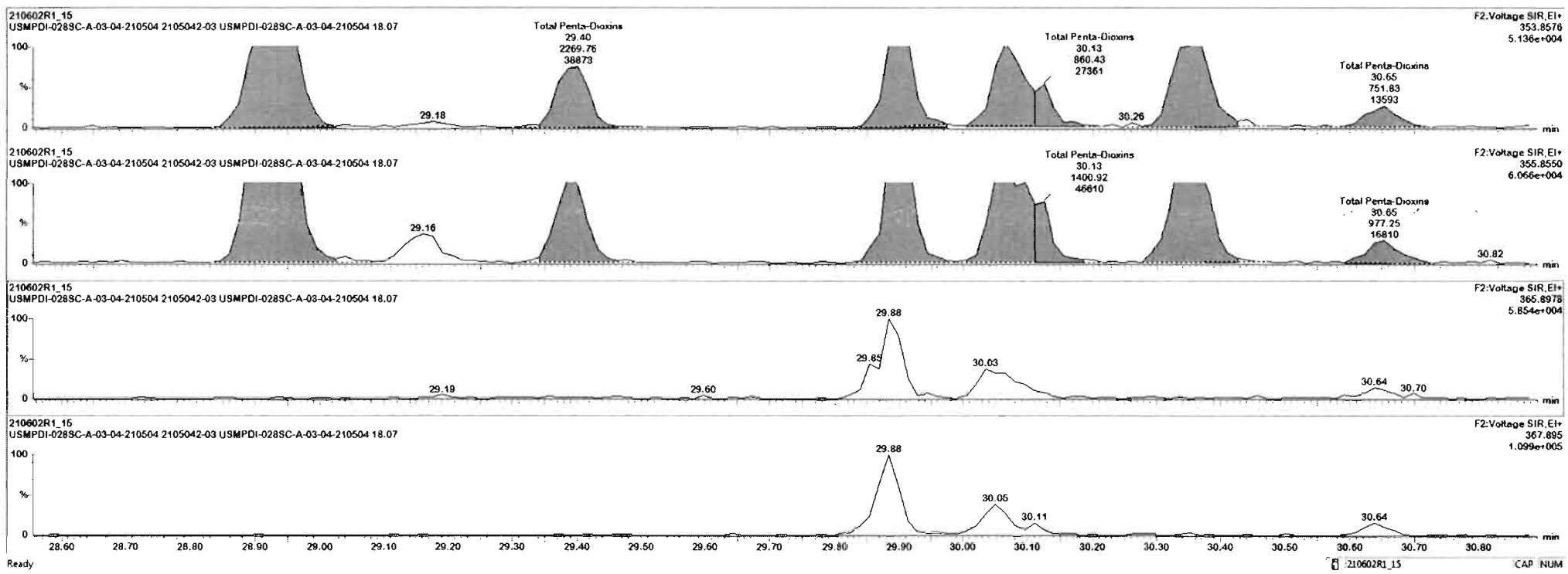
F2:Voltage SIR,EI+
365.8978
1.412e+007

210602R1_15

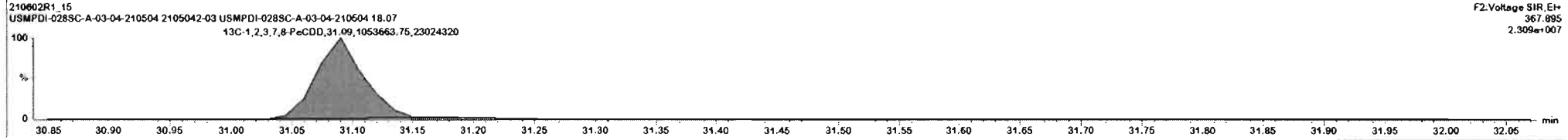
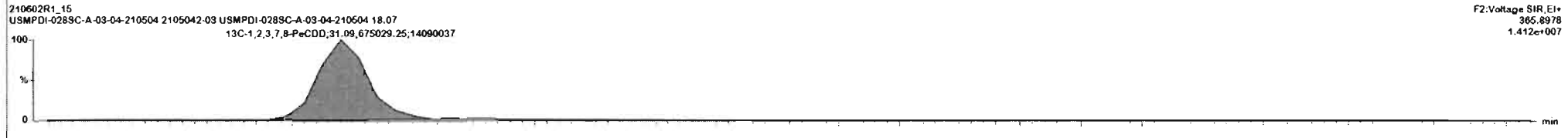
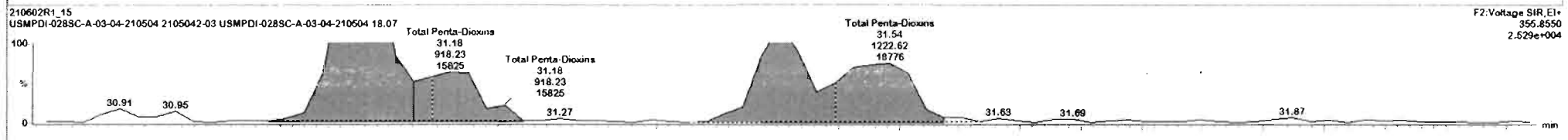
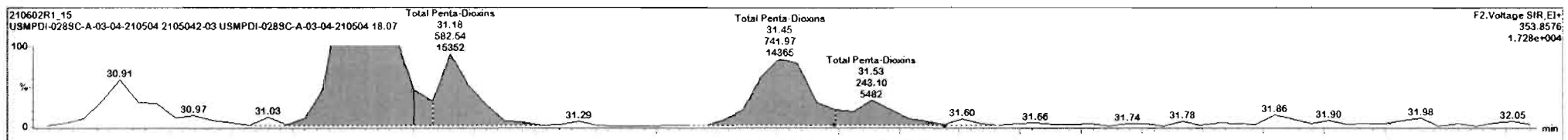


F2:Voltage SIR,EI+
367.895
2.309e+007

#	Name	RT	m1 Resp	m2 Resp	RA	mly	EMPC	Conc
1	Total Penta-Dioxins	28.95	7.577e3	1.304e4	0.58	NO	2.8806	2.6808
2	Total Penta-Dioxins	29.46	2.270e3	3.505e3	0.65	NO	0.80678	0.80678
3	Total Penta-Dioxins	29.90	3.769e3	5.346e3	0.71	NO	1.2734	1.2734
4	Total Penta-Dioxins	30.07	2.929e3	4.959e3	0.59	NO	1.1019	1.1019
5	Total Penta-Dioxins	30.13	8.604e2	1.401e3	0.61	NO	0.31592	0.31592
6	Total Penta-Dioxins	30.37	3.914e3	8.270e3	0.62	NO	1.4228	1.4228
7	Total Penta-Dioxins	30.65	7.518e2	8.772e2	0.77	YES	0.22254	0.00000
8	1,2,3,7,8-PeCDD	31.11	2.104e3	3.275e2	0.64	NO	0.75138	0.75138
9	Total Penta-Dioxins	31.16	5.825e2	9.162e2	0.63	NO	0.20966	0.20966
10	Total Penta-Dioxins	31.45	7.420e2	1.474e3	0.50	YES	0.26819	0.00000
11	Total Penta-Dioxins	31.53	2.431e2	1.223e2	0.20	YES	0.087871	0.00000



#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	28.95	7.577e3	1.304e4	0.58	NO	2.8808	2.8808
2	Total Penta-Dioxins	29.40	2.270e3	3.505e3	0.65	NO	0.80678	0.80678
3	Total Penta-Dioxins	29.90	3.769e3	5.346e3	0.71	NO	1.2734	1.2734
4	Total Penta-Dioxins	30.07	2.929e3	4.959e3	0.59	NO	1.1019	1.1019
5	Total Penta-Dioxins	30.13	8.604e2	1.401e3	0.61	NO	0.31592	0.31592
6	Total Penta-Dioxins	30.37	3.914e3	6.270e3	0.62	NO	1.4229	1.4229
7	Total Penta-Dioxins	30.65	7.518e2	9.772e2	0.77	YES	0.22254	0.00000
8	1,2,7,8-PeCDD	31.11	2.104e3	3.275e3	0.64	NO	0.75138	0.75138
9	Total Penta-Dioxins	31.18	5.825e2	9.162e2	0.63	NO	0.20966	0.20966
10	Total Penta-Dioxins	31.45	7.420e2	1.474e3	0.50	YES	0.26819	0.00000
11	Total Penta-Dioxins	31.53	2.431e2	1.223e3	0.20	YES	0.087871	0.00000



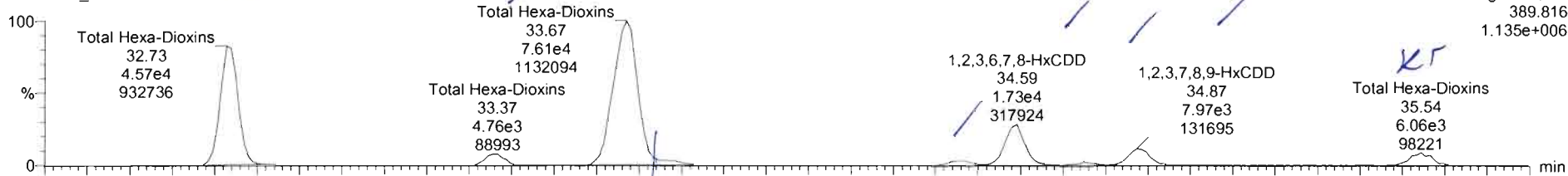
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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504

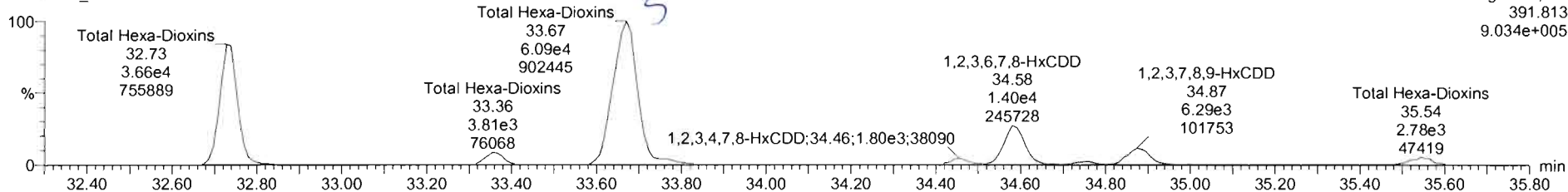
1,2,3,4,7,8-HxCDD

210602R1_15



F3:Voltage SIR,EI+
389.816
1.135e+006

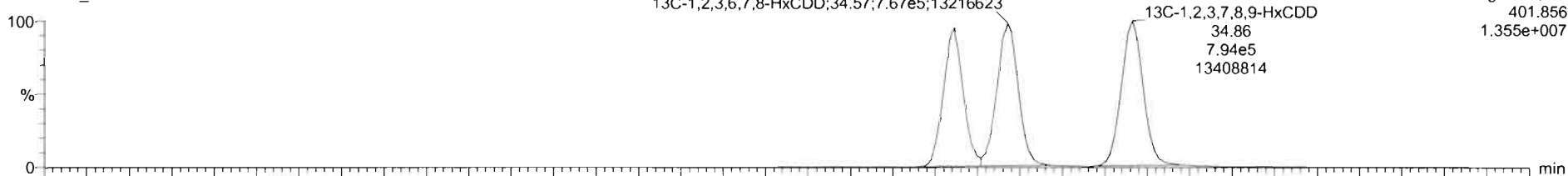
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F3:Voltage SIR,EI+
391.813
9.034e+005

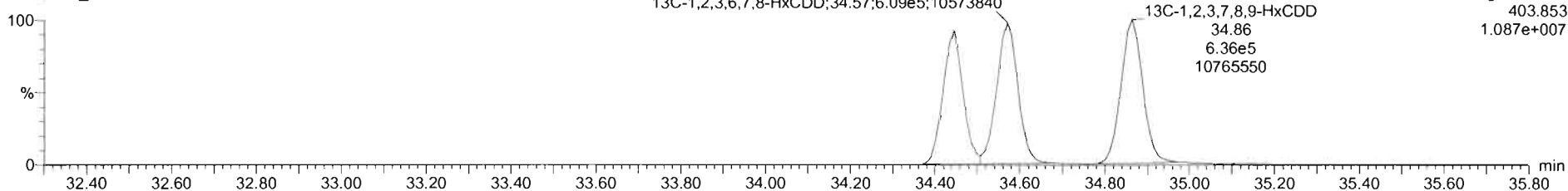
13C-1,2,3,4,7,8-HxCDD

210602R1_15



F3:Voltage SIR,EI+
401.856
1.355e+007

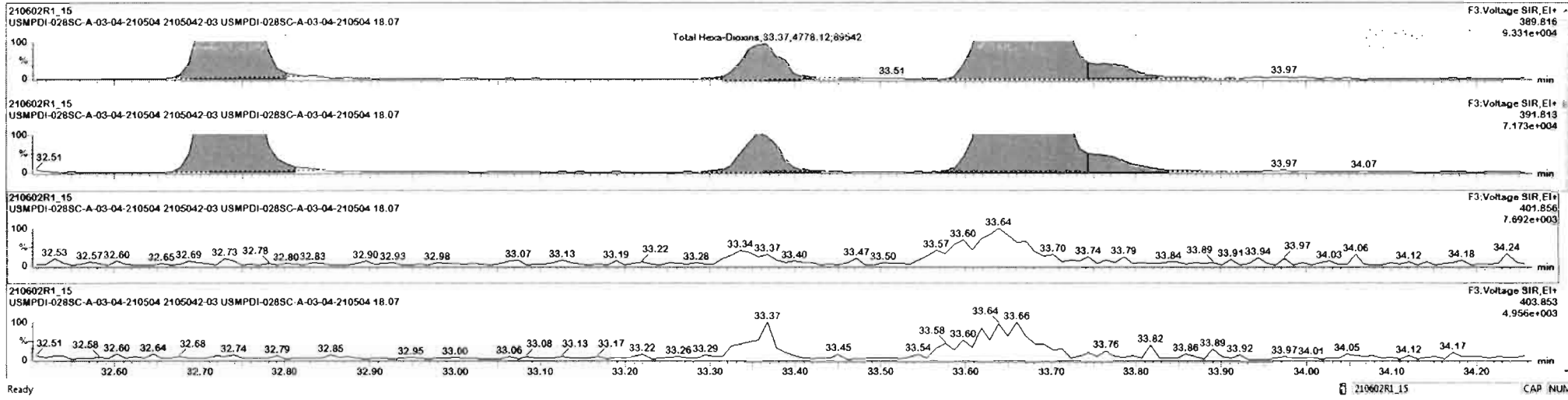
210602R1_15



F3:Voltage SIR,EI+
403.853
1.087e+007

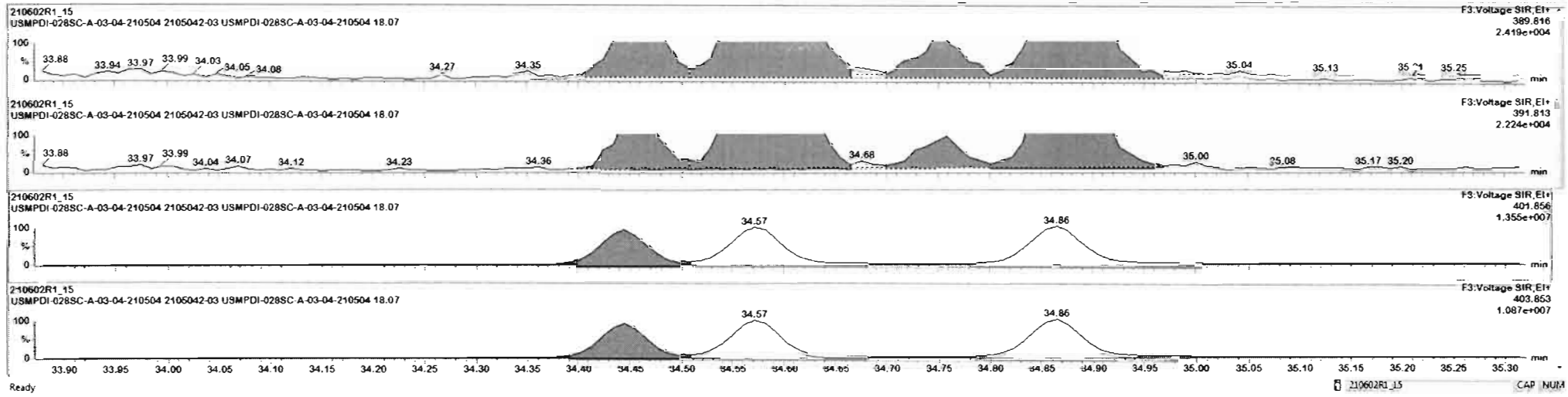
#	Name	Resp	IS Resp	ISL	RA	nly	RRF	wt/vol	Pred RT	RT	RRT	Pred.RRT	Check RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins	1.29e6					0.8261	10.029	24.62			0.000	NO	8.31	0.0492	# 31	
40	Total Penta-Dioxins	1.73e6					0.8257	10.029	29.95			0.000	NO	8.76	0.0502	9.24	
41	Total Hexa-Dioxins	0.00e0					0.8771	10.029	33.63			0.000	NO	48.9	0.0831	46.9	
42	Total Hepta-Dioxins	1.09e6					0.8987	10.029	37.64			0.000	NO	179	0.247	179	
43	Total Tetra-Furans	3.01e6					0.7486	10.029	23.61			0.000	NO	80.0	0.0238	69.8	
44	1st Func. Penta-Furans	0.00e0					0.8771	10.029	27.62			0.000	NO	12.3	0.0133	12.3	
45	Total Penta-Furans	0.00e0					0.8771	10.029	29.27			0.000	NO	58.2	0.0594	58.6	
46	Total Hexa-Furans	0.00e0					0.9725	10.029	33.56			0.000	NO	74.8	0.0736	74.8	
47	Total Hepta-Furans	0.00e0					1.3481	10.029	37.63			0.000	NO	64.3	0.0527	64.3	
48	PFK1																
49	PFK2																

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
Total Hexa-Dioxins	33.73	4.610e4	3.658e4	1.26	NO	13.931	13.931
Total Hexa-Dioxins	33.37	4.778e3	3.889e3	1.23	NO	1.4570	1.4570
Total Hexa-Dioxins	33.87	7.371e4	5.885e4	1.25	NO	22.336	22.336
Total Hexa-Dioxins	33.74	2.031e3	1.915e3	1.06	NO	0.66493	0.66493
1,2,3,4,7,8-HxCDD	34.47	2.214e3	1.051e3	1.23	NO	0.66284	0.66284
1,2,3,6,7,8-HxCDD	34.59	1.720e4	1.393e4	1.23	NO	5.1440	5.1440
Total Hexa-Dioxins	34.75	1.352e3	9.617e2	1.41	NO	0.33993	0.33993
1,2,3,7,8,9-HxCDD	34.87	7.913e3	6.348e3	1.25	NO	2.2759	2.2759



#	Name	Resp	S Resp	IS#	RA	n/y	RRF	wt/vol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins		1.29e6				0.8251	10.029	24.62			0.000	NO	8.31	0.0492	9.31	
40	Total Penta-Dioxins		1.73e6				0.8257	10.029	28.96			0.000	NO	8.76	0.0592	9.34	
41	Total Hexa-Dioxins	0.00e0					0.8771	10.029	33.63			0.000	NO	46.9	0.0831	46.9	
42	Total Hepta-Dioxins		1.09e6				0.8687	10.029	37.64			0.000	NO	179	0.247	179	
43	Total Tetra-Furans		3.01e6				0.7488	10.029	23.61			0.000	NO	89.0	0.0138	69.8	
44	1st Func. Penta-Furans	0.00e0					0.8771	10.029	27.62			0.000	NO	10.3	0.0133	13.3	
45	Total Penta-Furans	0.00e0					0.8771	10.029	29.27			0.000	NO	58.2	0.0594	58.6	
46	Total Hexa-Furans	0.00e0					0.9725	10.029	33.56			0.000	NO	74.8	0.0736	74.8	
47	Total Hepta-Furans	0.00e0					1.0461	10.029	37.83			0.000	NO	84.3	0.0927	84.3	
48	PFK1																
49	PFK2																

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	32.73	4.610e4	3.658e4	1.26	NO	13.931	13.931
2	Total Hexa-Dioxins	33.37	4.778e3	3.889e3	1.23	NO	1.4570	1.4570
3	Total Hexa-Dioxins	33.67	7.371e4	5.885e4	1.25	NO	22.336	22.336
4	Total Hexa-Dioxins	33.74	2.631e7	1.915e3	1.96	NO	0.69493	0.66493
5	1,2,3,4,7,8-HxCDD	34.47	2.214e3	1.831e3	1.23	NO	0.66284	0.66284
6	1,2,3,6,7,8-HxCDD	34.59	1.720e4	1.393e4	1.23	NO	5.1440	5.1440
7	Total Hexa-Dioxins	34.75	1.252e3	9.617e2	1.41	NO	0.38993	0.38993
8	1,2,3,7,8,9-HxCDD	34.87	7.913e7	6.348e3	1.25	NO	2.2759	2.2759



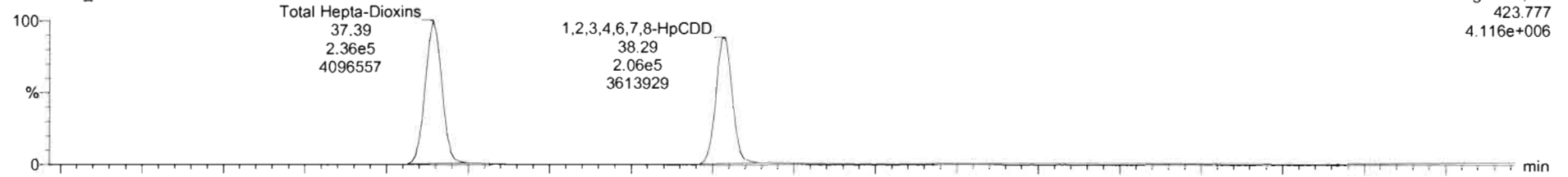
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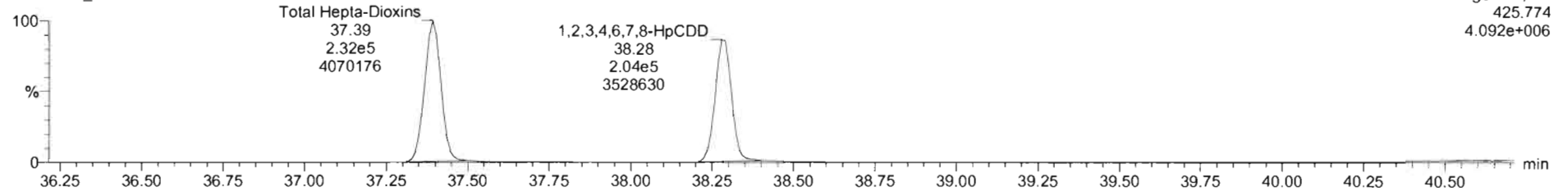
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1,2,3,4,6,7,8-HpCDD

210602R1_15

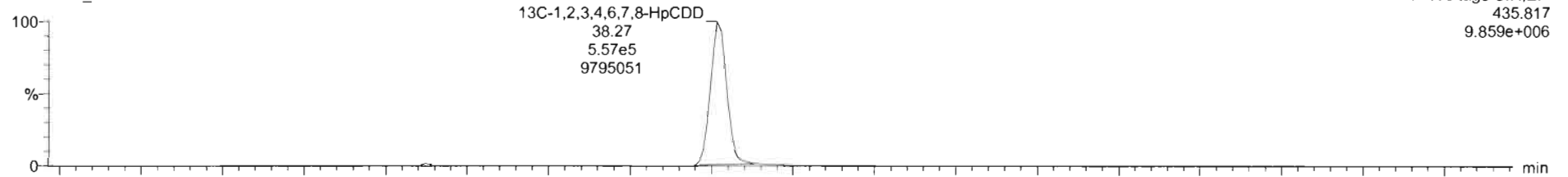


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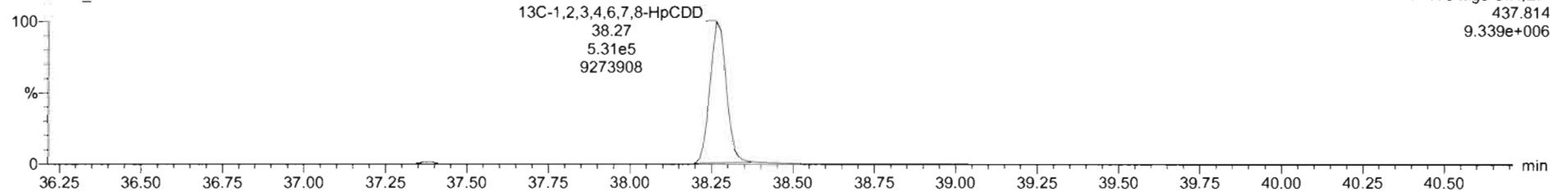


13C-1,2,3,4,6,7,8-HpCDD

210602R1_15



210602R1_15



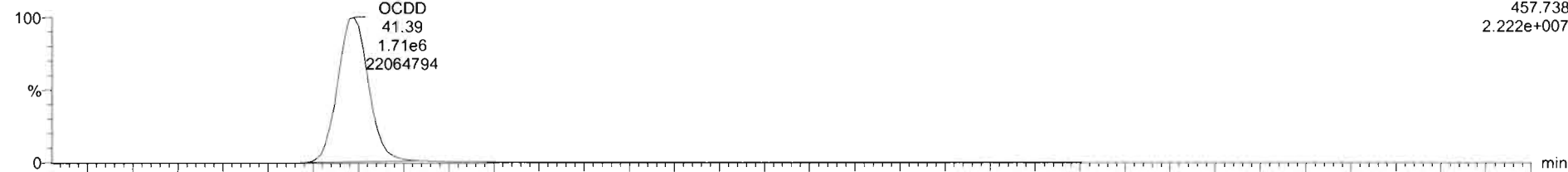
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Printed: Thursday, June 03, 2021 14:57:33 Pacific Daylight Time

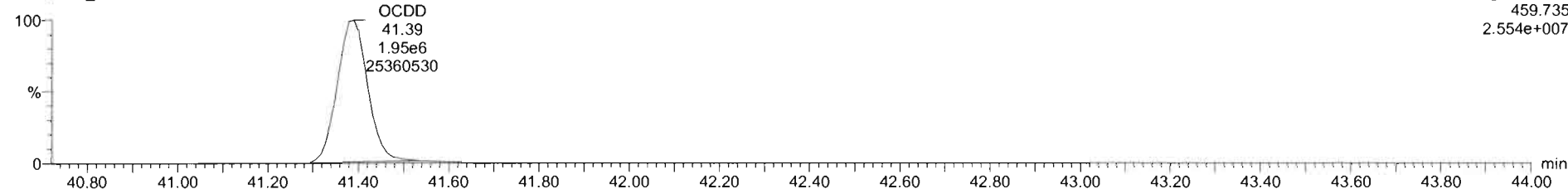
Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504

OCDD

210602R1_15

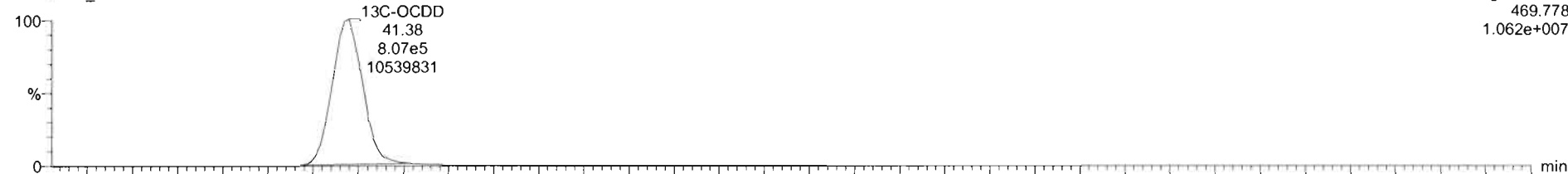


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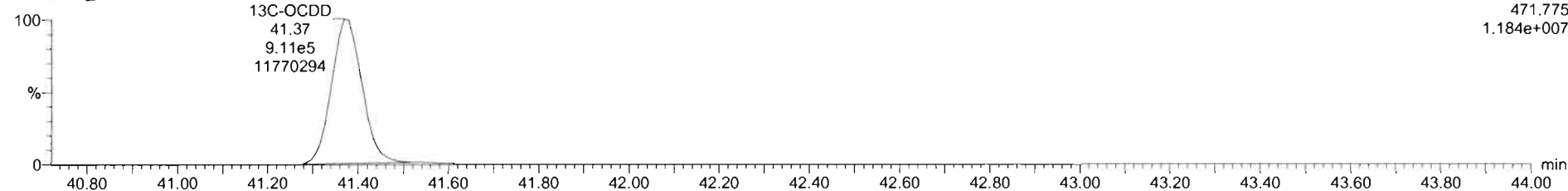


13C-OCDD

210602R1_15



210602R1_15

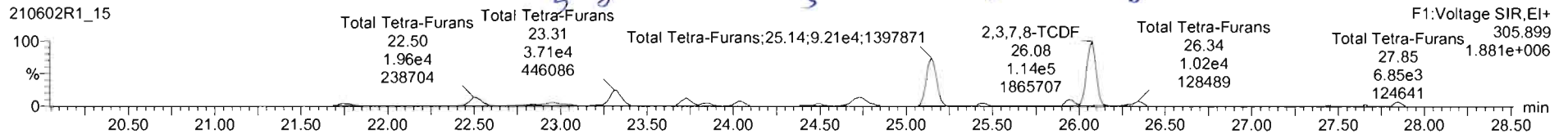
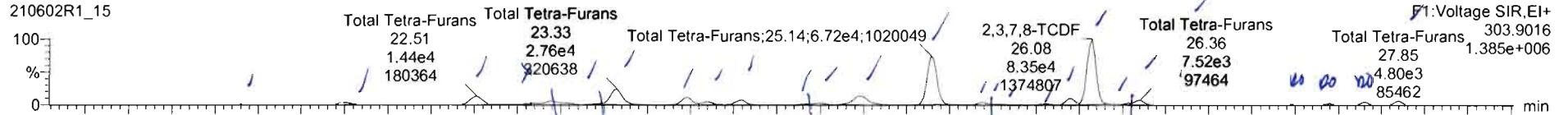


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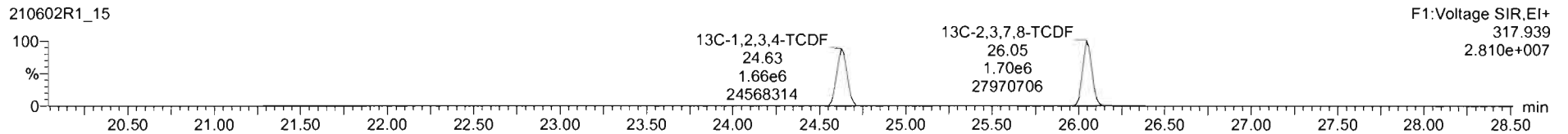
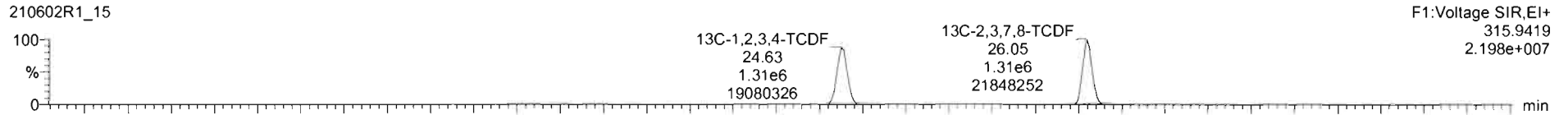
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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504

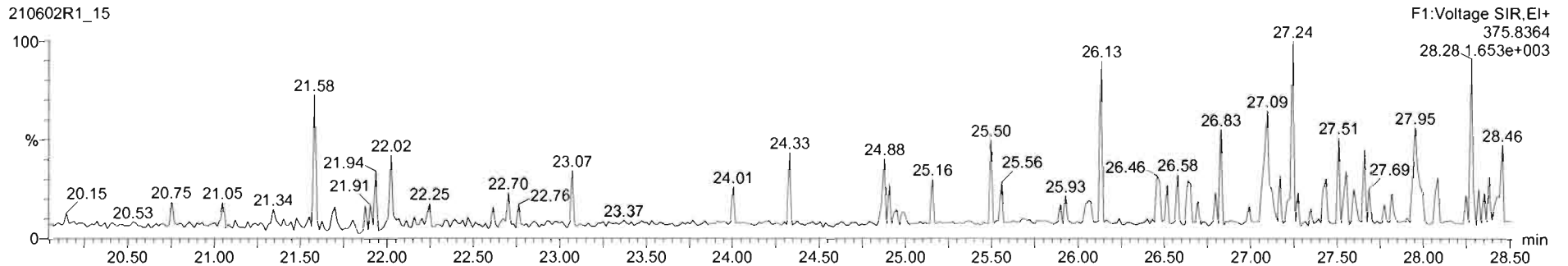
2,3,7,8-TCDF



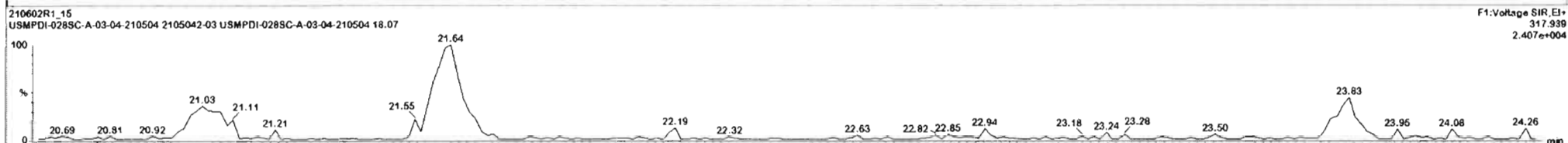
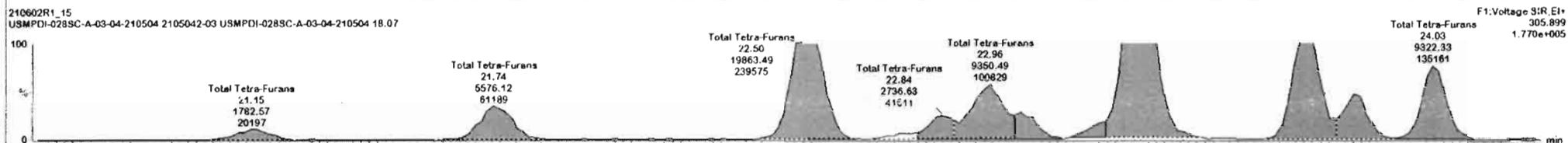
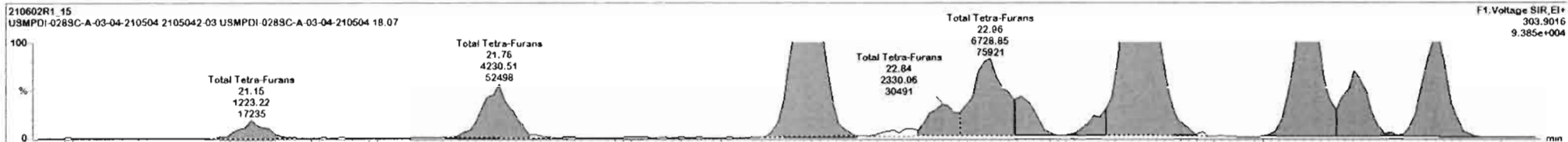
13C-2,3,7,8-TCDF



DPE1



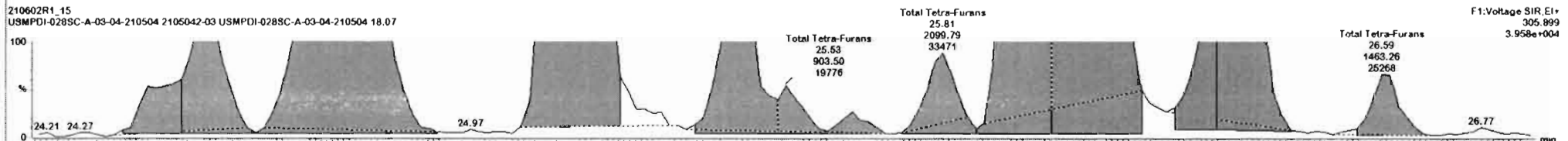
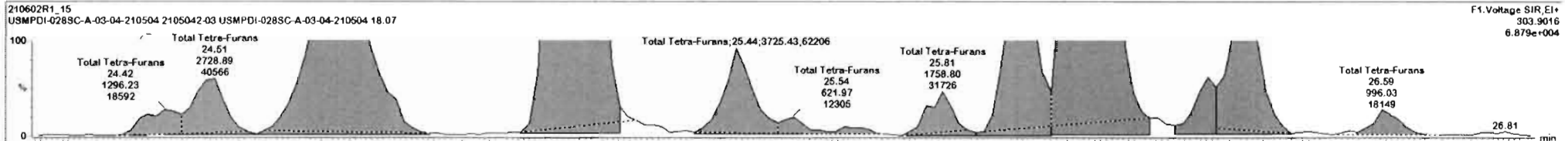
#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Tetra-Furans	21.15	1.221e3	1.703e3	0.69	NO	0.20647	0.26847
2	Total Tetra-Furans	21.76	4.231e3	5.576e3	0.76	NO	0.86938	0.86938
3	Total Tetra-Furans	22.51	1.466e4	1.666e4	0.74	NO	3.0610	3.0610
4	Total Tetra-Furans	22.84	2.332e3	2.737e3	0.85	NO	0.44917	0.44917
5	Total Tetra-Furans	22.96	8.729e3	9.350e3	0.72	NO	1.4256	1.4256
6	Total Tetra-Furans	23.03	2.004e3	2.640e3	0.74	NO	0.43747	0.43747
7	Total Tetra-Furans	23.24	1.052e3	1.406e3	0.77	NO	0.22077	0.22077
8	Total Tetra-Furans	23.33	2.852e4	3.572e4	0.74	NO	5.5184	5.5184



Ready

210602R1_15 CAP NUM

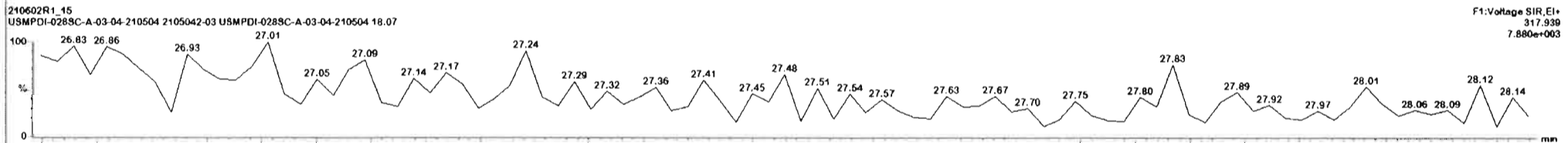
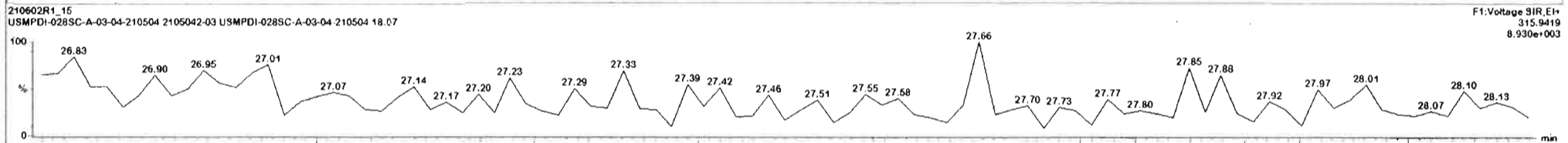
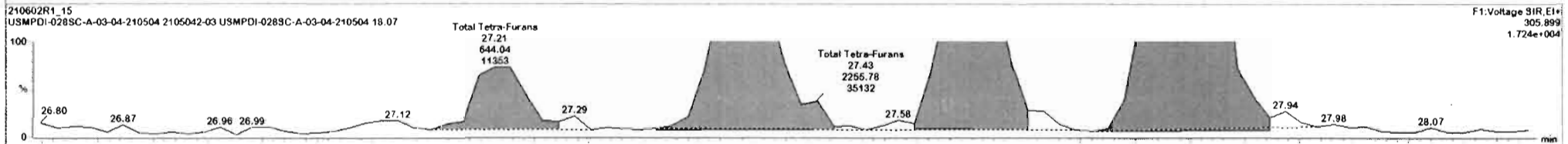
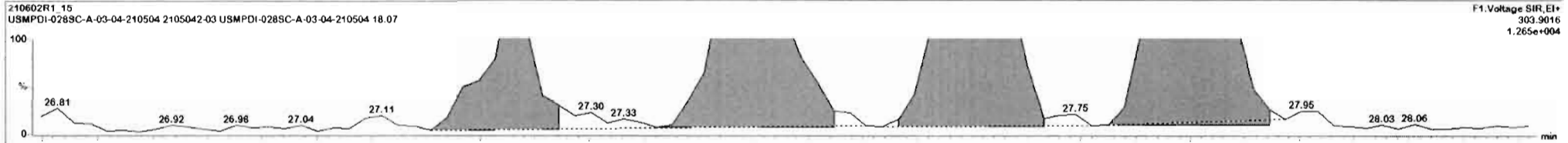
#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Tetra-Furans	21.15	1.221e3	1.783e3	0.69	NO	0.20847	0.26847
2	Total Tetra-Furans	21.76	4.231e3	5.576e3	0.76	NO	0.86938	0.86938
3	Total Tetra-Furans	22.51	1.466e4	1.686e4	0.74	NO	3.0610	3.0819
4	Total Tetra-Furans	22.84	2.332e2	2.737e3	0.86	NO	0.44917	0.44917
5	Total Tetra-Furans	22.96	6.729e3	9.350e3	0.72	NO	1.4256	1.4256
6	Total Tetra-Furans	23.03	2.094e2	2.840e2	0.74	NO	0.43747	0.43747
7	Total Tetra-Furans	23.24	1.082e2	1.406e3	0.77	NO	0.22077	0.22077
8	Total Tetra-Furans	23.33	2.652e4	3.872e4	0.74	NO	5.5184	5.5184



Ready

210602R1_15 CAP NUM

#	Name	RT	m1 Resp	m2 Resp	RA	inj	EMPC	Conc.
1	Total Tetra-Furans	21.15	1.223e3	1.783e3	0.89	NO	0.26647	0.26647
2	Total Tetra-Furans	21.76	4.231e3	5.576e3	0.76	NO	0.86938	0.86938
3	Total Tetra-Furans	22.51	1.486e4	1.866e4	0.74	NO	3.0610	3.0610
4	Total Tetra-Furans	22.84	2.335e3	2.737e3	0.85	NO	0.44917	0.44917
5	Total Tetra-Furans	22.96	6.729e3	9.350e3	0.72	NO	1.4265	1.4265
6	Total Tetra-Furans	23.03	2.054e3	2.840e3	0.74	NO	0.43747	0.43747
7	Total Tetra-Furans	23.24	1.052e3	1.406e3	0.77	NO	0.22077	0.22077
8	Total Tetra-Furans	23.33	2.852e4	3.522e4	0.74	NO	5.5184	5.5184



Ready

210602R1_15 CAP NUM

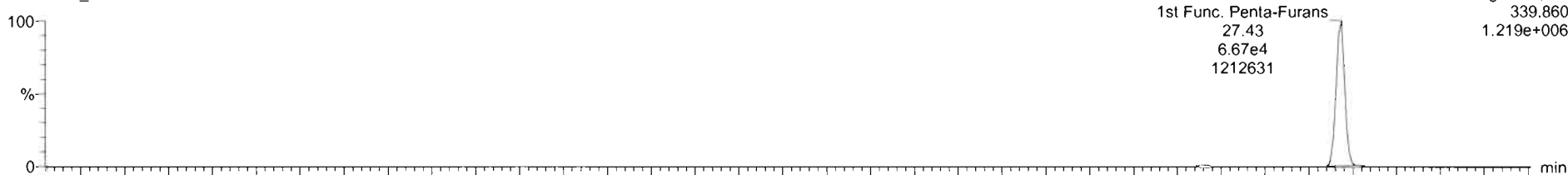
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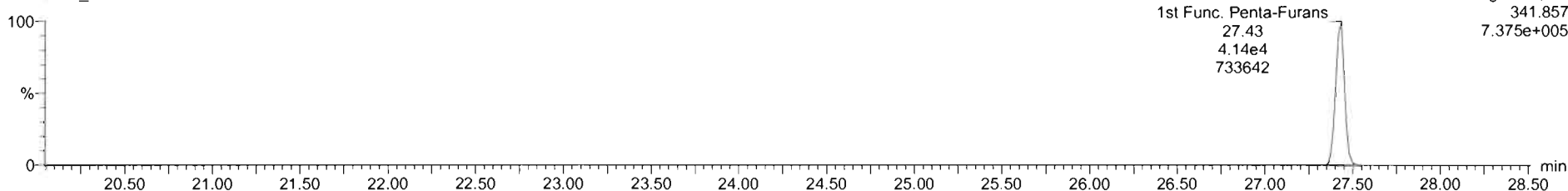
Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504

1st Func. Penta-Furans

210602R1_15

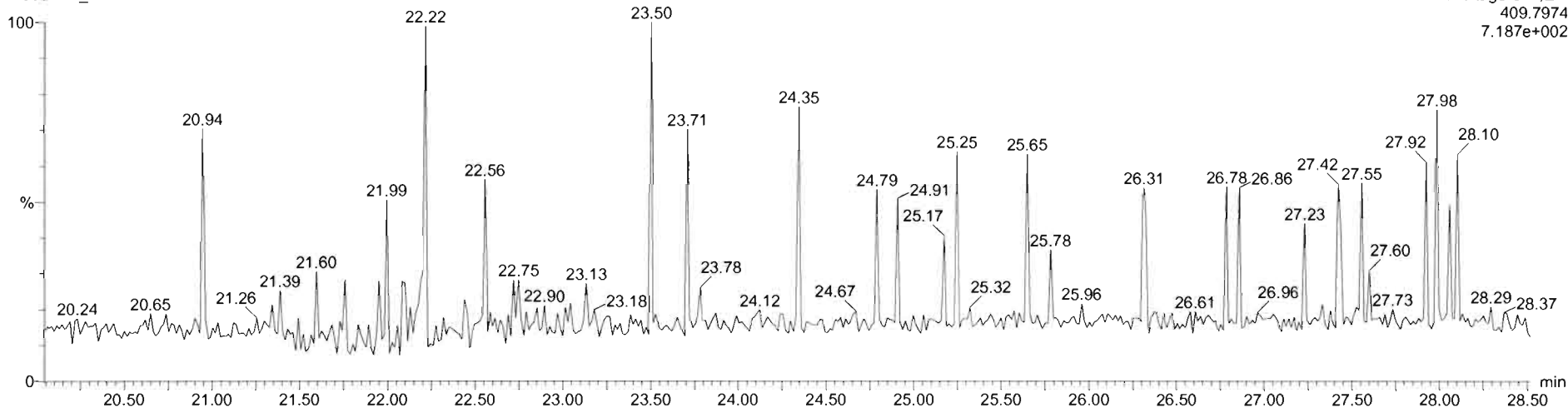


210602R1_15



DPE6

210602R1_15

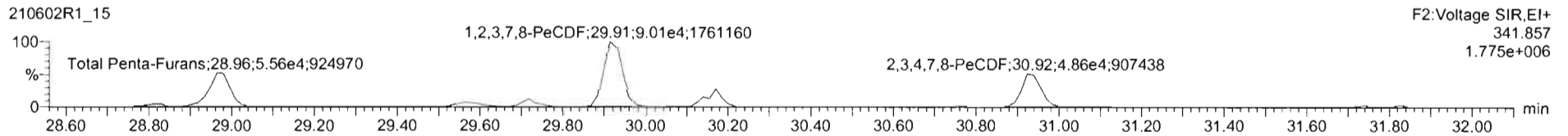
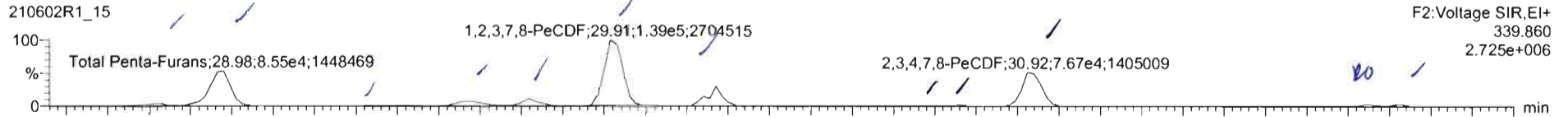


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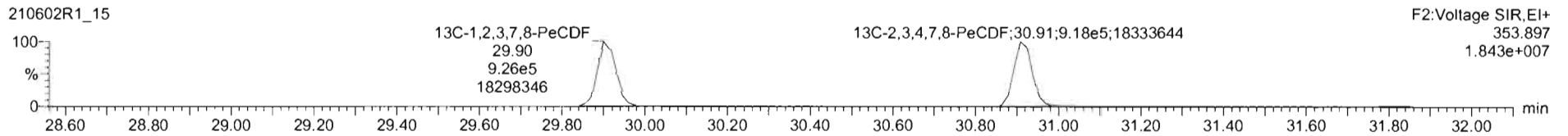
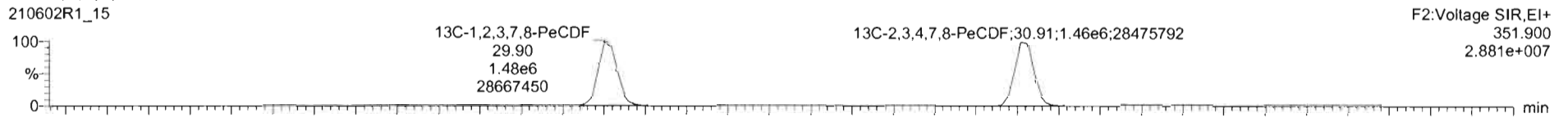
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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504

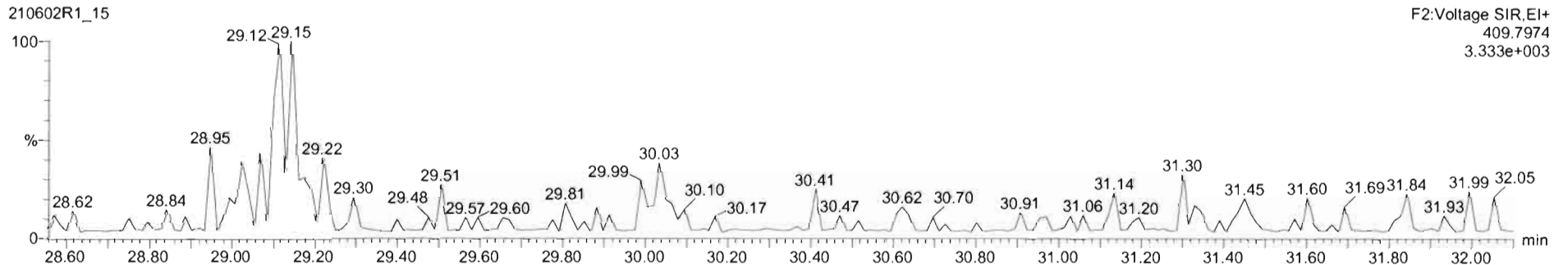
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



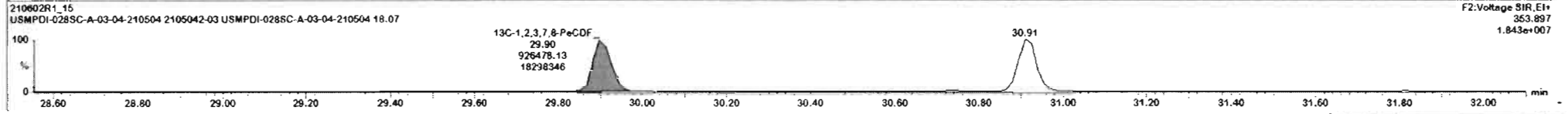
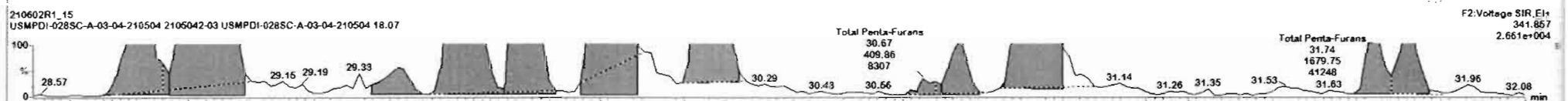
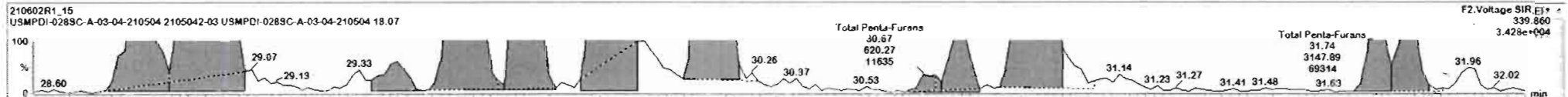
DPE2



210602R1_15 - 2105042-03 USMPDI-028SC-A-03-04-210504 18.07 - USMPDI-028SC-A-03-04-210504

#	Name	Resp	S Resp	Std	RA	nly	RRF	wtVol	Pred RT	RT	RRT	Pred RRT	Check RRT	Conc.	%Rec	DL	EMPC
44	1st Func: Penta-Furans	0.00e0					0.8771	10.029	27.62			0.000	NO	12.3	0.0133	10.3	
45	Total Penta-Furans	0.00e0					0.8771	10.029	29.27			0.000	NO	58.4	0.0994	58.8	
46	Total Hexa-Furans	0.00e0					0.9725	10.029	33.56			0.000	NO	74.8	0.0736	74.8	
47	Total Hepta-Furans	0.00e0					1.5481	10.029	37.83			0.000	NO	64.3	0.0927	64.3	
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	DPE1																
54	DPE2																

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Furans	28.81	8.953e2	4.888e3	1.42	NO	1.1248	1.1248
2	Total Penta-Furans	28.98	8.716e4	5.630e4	1.55	NO	13.627	13.627
3	Total Penta-Furans	29.42	1.300e3	9.677e2	1.34	NO	0.21542	0.21542
4	Total Penta-Furans	29.57	1.439e4	9.009e3	1.60	NO	2.2230	2.2230
5	Total Penta-Furans	29.72	1.399e4	9.334e3	1.50	NO	2.2153	2.2153
6	1,2,3,7,8-PeCDF	29.91	1.416e5	9.184e4	1.54	NO	22.063	22.063
7	Total Penta-Furans	30.17	3.370e4	2.125e4	1.59	NO	5.2193	5.2193
8	Total Penta-Furans	30.67	8.203e2	4.095e2	1.51	NO	0.097846	0.097846

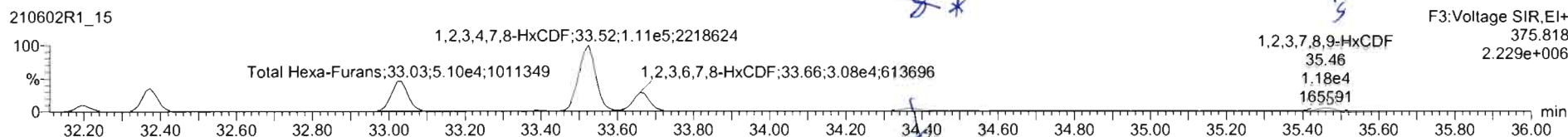
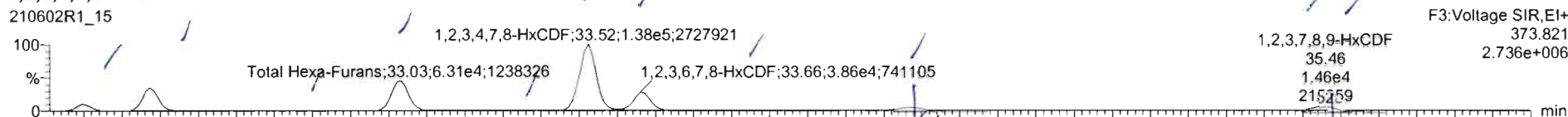


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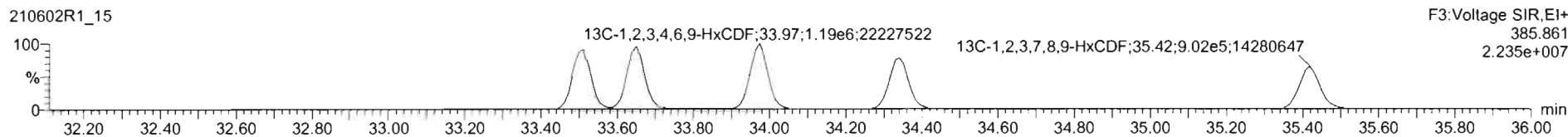
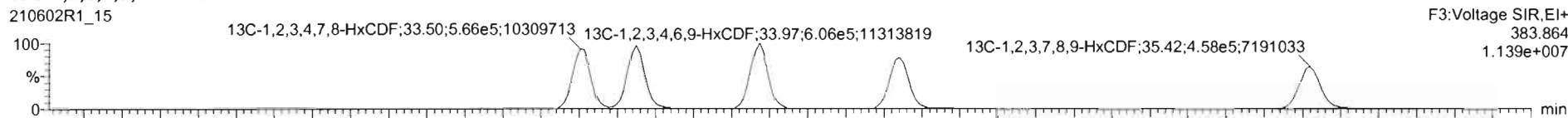
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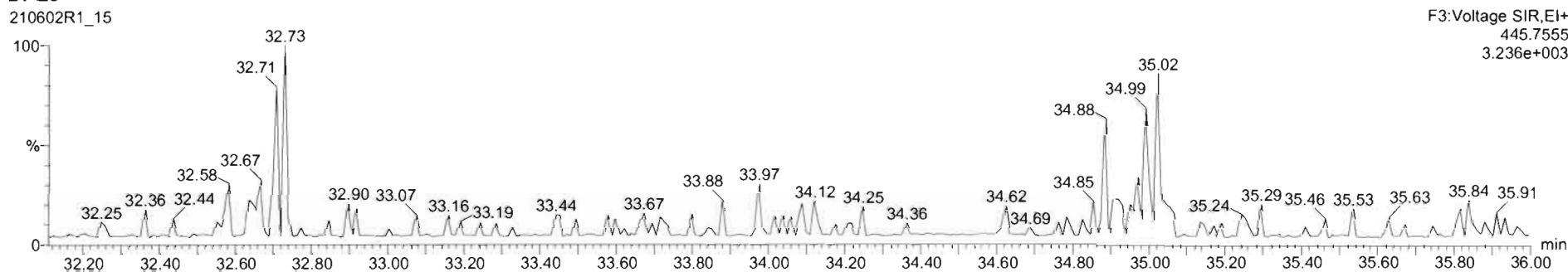
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF

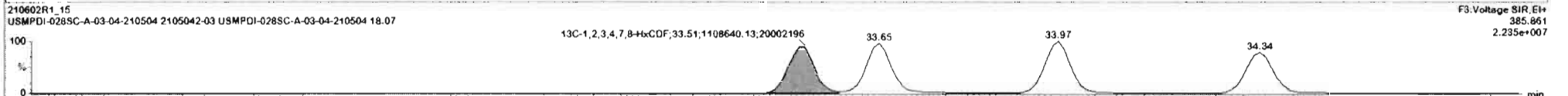
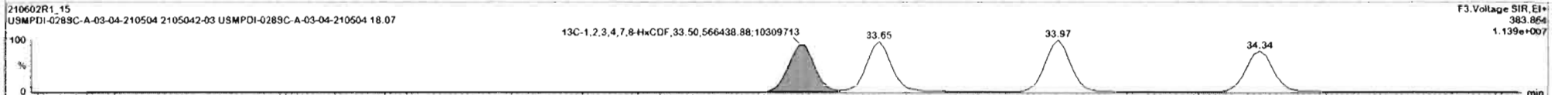
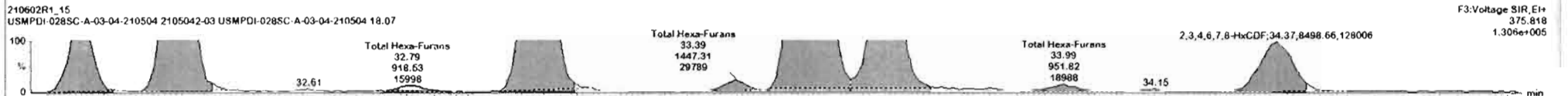


DPE3



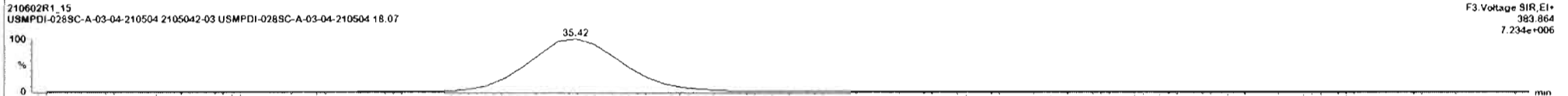
#	Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans				0.67	10.026			77.5	0.0736		77.5
47	Total Hepta-Furans				1.05	10.026			64.2	0.0927		64.2
48	PHK1											
49	PHK2											
50	PHK3											
51	PHK4											
52	PHK5											
53	DPE1											
54	DPE2											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Hexa-Furans	35.46	7.418e3	5.895e3	1.26	NO	1.7436	1.7436
2	1,2,3,7,8-HxCDF	35.46	6.984e3	6.116e3	1.14	NO	2.0454	2.0454
3	2,3,4,6,7,8-HxCDF	34.37	1.097e4	8.499e3	1.29	NO	2.6264	2.6264
4	Total Hexa-Furans	33.99	1.027e2	9.519e2	1.06	NO	0.25911	0.25911
5	1,2,3,6,7,8-HxCDF	33.96	3.959e4	3.212e4	1.23	NO	8.9423	8.9423
6	1,2,3,4,7,8-HxCDF	33.52	1.088e5	1.122e5	1.24	NO	32.476	32.476
7	Total Hexa-Furans	33.40	1.755e3	1.447e3	1.21	NO	0.41939	0.41939
8	Total Hexa-Furans	33.03	6.391e4	5.156e4	1.24	NO	15.123	15.123
9	Total Hexa-Furans	32.79	1.253e3	9.195e2	1.37	NO	0.28502	0.28502
10	Total Hexa-Furans	32.37	4.450e4	3.681e4	1.21	NO	10.649	10.649



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.87	10.029			77.4	0.0738		77.4
47 Total Hexa-Furans				1.05	10.029			64.2	0.0927		64.2
48 PK1											
49 PK2											
50 PK3											
51 PK4											
52 PK5											
53 DPE1											
54 DPE2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	35.46	7.413e3	5.895e3	1.26	NO	1.7438	1.7438
2 1 2 3 7 8 S-HxCDF	35.46	6.984e3	6.116e3	1.14	NO	2.0454	2.0454
3 2 3 4 6 7 S-HxCDF	34.37	1.080e4	8.222e3	1.29	NO	2.5369	2.5390
4 Total Hexa-Furans	33.99	1.027e3	9.510e2	1.08	NO	0.25811	0.25811
5 1 2 3 6 7 S-HxCDF	33.96	3.969e4	3.212e4	1.23	NO	6.9423	6.9423
6 1 2 3 4 7 S-HxCDF	33.52	1.388e5	1.122e5	1.24	NO	32.476	32.476
7 Total Hexa-Furans	33.40	1.755e3	1.447e3	1.21	NO	0.41939	0.41939
8 Total Hexa-Furans	33.03	6.391e4	5.150e4	1.24	NO	15.123	15.123
9 Total Hexa-Furans	32.75	1.268e3	9.185e2	1.37	NO	0.28502	0.28502
10 Total Hexa-Furans	32.37	4.455e4	3.681e4	1.21	NO	10.649	10.649



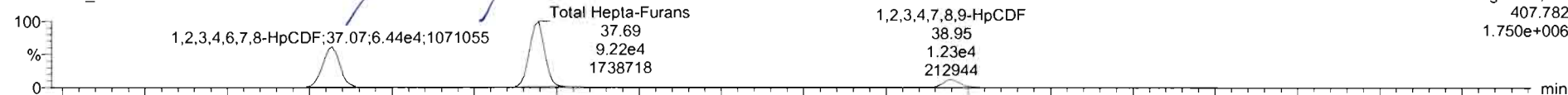
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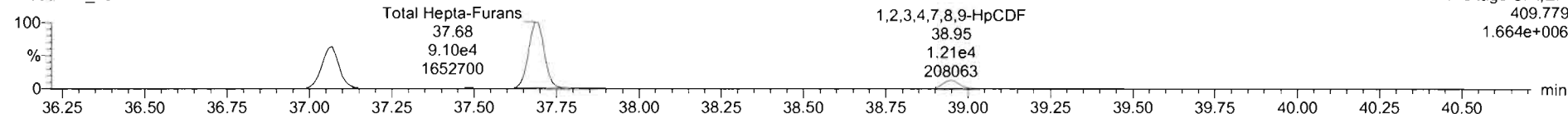
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1,2,3,4,6,7,8-HpCDF

210602R1_15

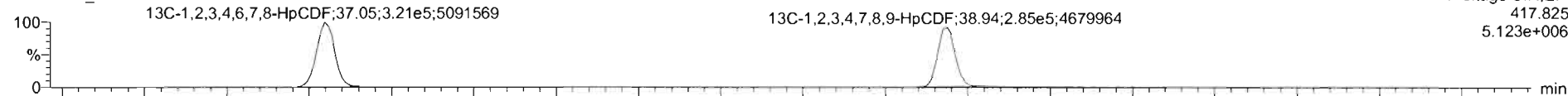


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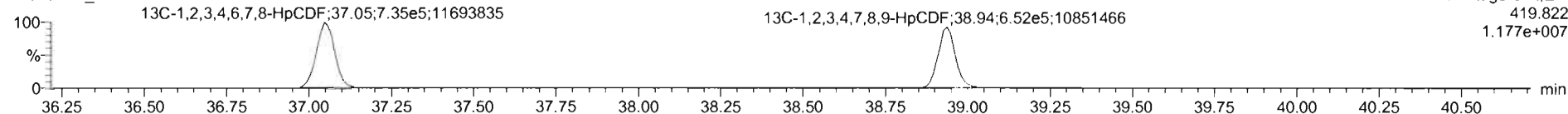


13C-1,2,3,4,6,7,8-HpCDF

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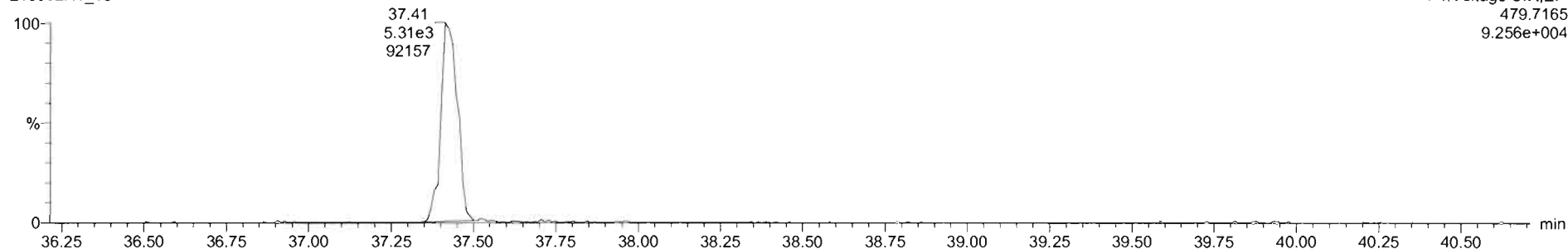


210602R1_15



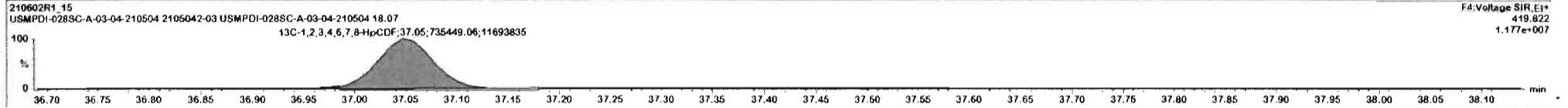
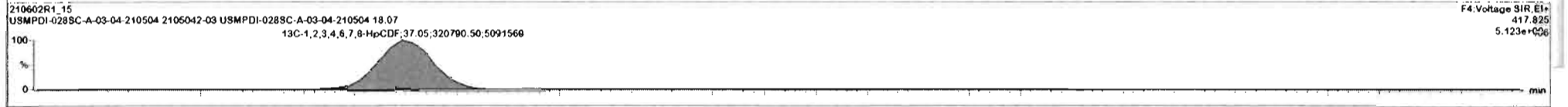
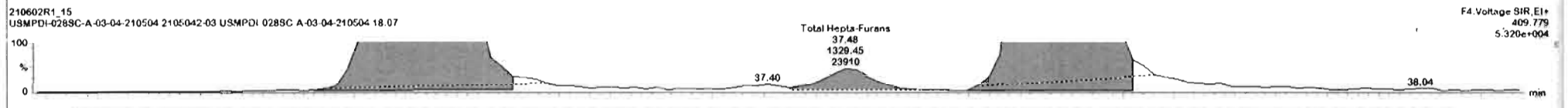
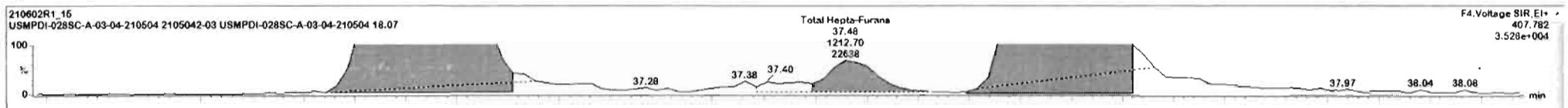
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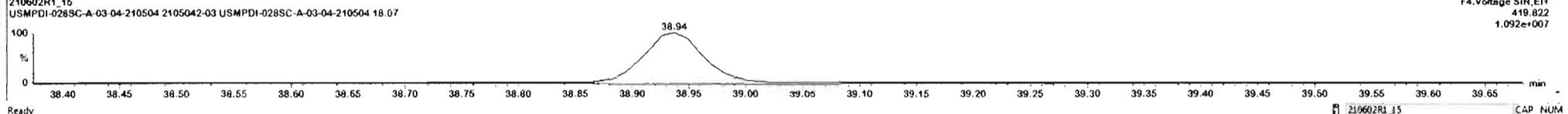
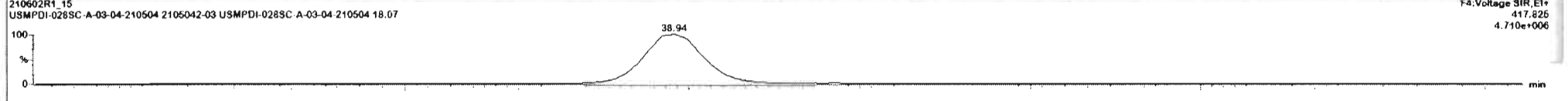
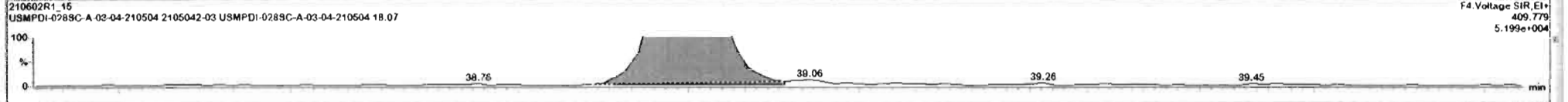
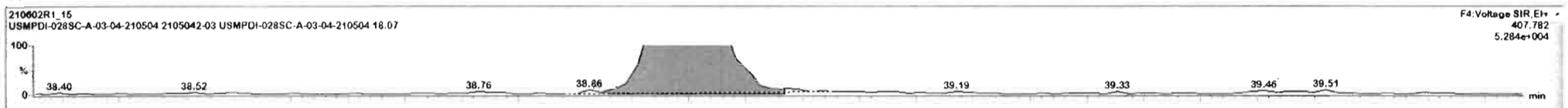
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43	Total Tetra-Furans	3.01e6					0.7488	10.029	23.61			0.000	NO	60.0	0.0338	65.8	
44	1st Func. Penta-Furans	0.00e0					0.8771	10.029	27.62			0.000	NO	10.3	0.0133	13.3	
45	Total Penta-Furans	0.00e0					0.8771	10.029	29.27			0.000	NO	58.4	0.0884	58.8	
46	Total Hexa-Furans	0.00e0					0.9725	10.029	33.58			0.000	NO	74.8	0.0736	74.8	
47	Total Hepta-Furans	0.03e0					1.0481	10.029	37.83			0.000	NO	64.2	0.0927	64.2	
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	PFK6																

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.07	6.484e4	6.384e4	1.02	NO	23.180	23.180
2	Total Hepta-Furans	37.48	1.213e3	1.326e3	0.91	NO	0.43552	0.43552
3	Total Hepta-Furans	37.66	9.251e4	9.228e4	1.01	NO	35.483	35.483
4	1,2,3,4,7,8-HpCDF	38.95	1.229e4	1.235e4	0.99	NO	5.0198	5.0198



#	Name	Resp	IS Resp	IS	RA	nly	RRF	wtVol	Pred.RT	RT	RRT	Pred.RRT	Check.RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans	3.01e0					0.7488	10.029	23.61			0.000	NO	0.0	0.0332	69.8	
44	1st Func. Penta-Furans	0.00e0					0.8771	10.029	27.62			0.000	NO	10.3	0.0133	10.3	
45	Total Penta-Furans	0.00e0					0.8771	10.029	29.27			0.000	NO	58.4	0.0964	58.8	
46	Total Hexa-Furans	0.00e0					0.9725	10.029	33.58			0.000	NO	74.8	0.0738	74.8	
47	Total Hepta-Furans	0.00e0					1.0461	10.029	37.83			0.000	NO	64.2	0.0927	64.2	
48	PFK1																
49	PFK2																
50	PFK3																
51	PFK4																
52	PFK5																
53	PFK6																

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.07	6.48e4	8.32e4	1.02	NO	23.180	23.180
2	Total Hepta-Furans	37.48	1.212e3	1.329e3	0.91	NO	0.48552	0.48552
3	Total Hepta-Furans	37.86	9.351e4	9.228e4	1.01	NO	35.483	35.483
4	1,2,3,4,7,8-HpCDF	38.95	1.229e4	1.235e4	0.99	NO	5.0198	5.0198



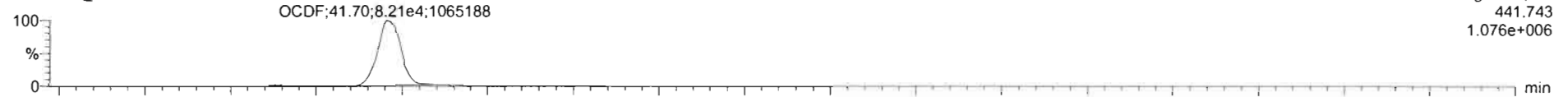
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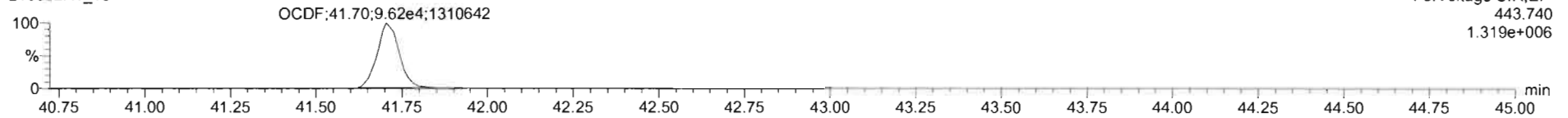
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OCDF

210602R1_15



210602R1_15

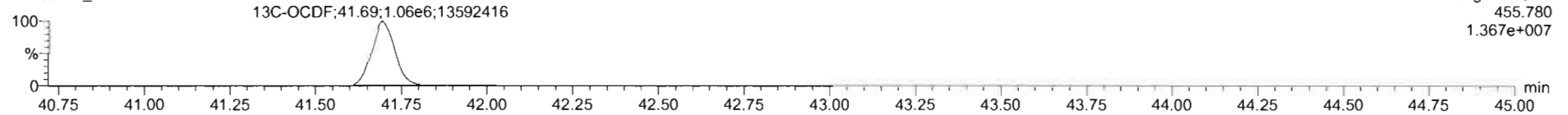


13C-OCDF

210602R1_15

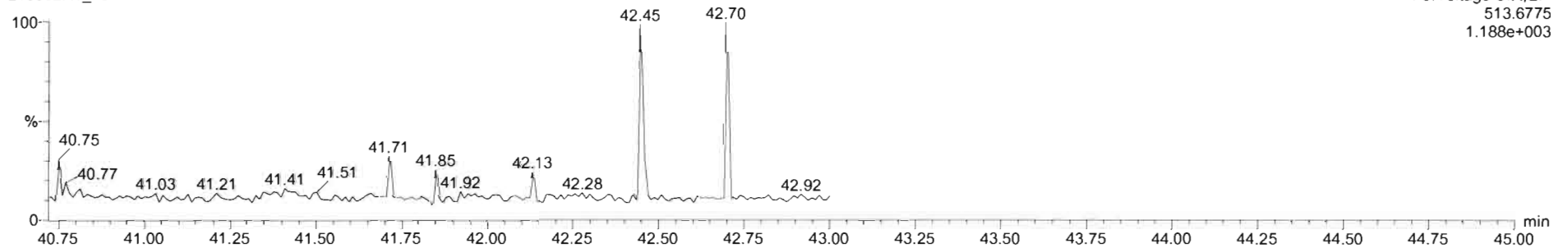


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DPE5

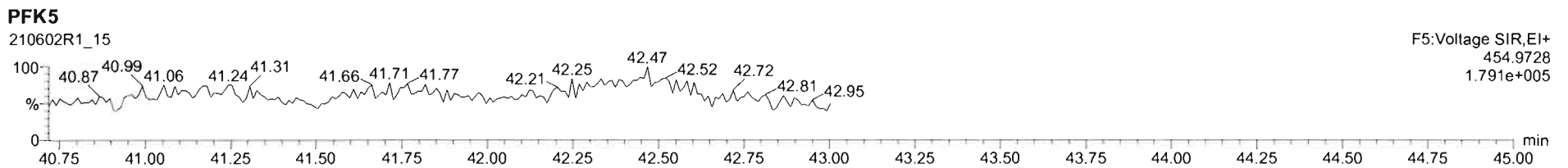
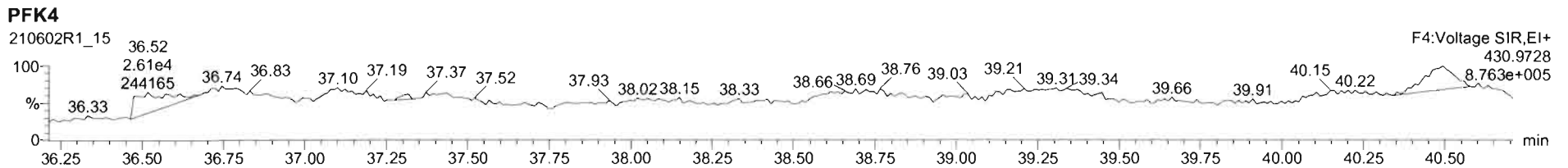
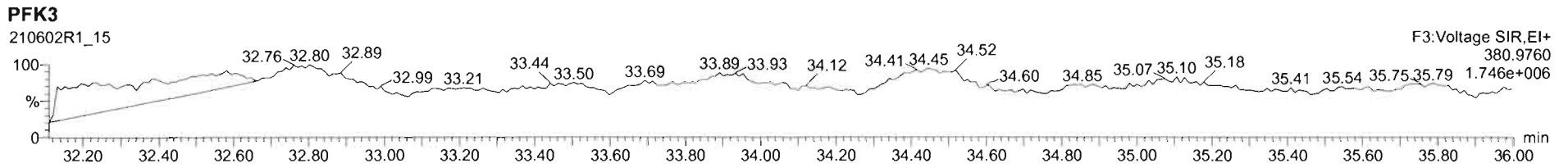
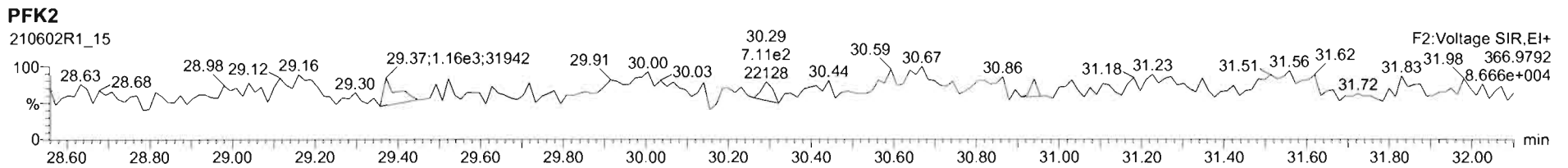
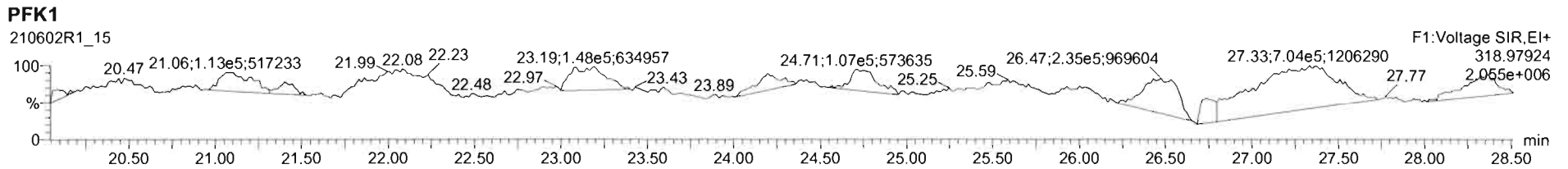
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Name: 210602R1_15, Date: 03-Jun-2021, Time: 00:19:15, ID: 2105042-03 USMPDI-028SC-A-03-04-210504 18.07, Description: USMPDI-028SC-A-03-04-210504



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Last Altered: Friday, June 18, 2021 17:29:59 Pacific Daylight Time

Printed: Friday, June 18, 2021 17:39:01 Pacific Daylight Time

dy 06-18-2021

C106/23/2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.90e3	0.59	YES	0.929	9.997	26.676	26.67	1.001	1.001	1.0555		0.333	0.901
2	2 1,2,3,7,8-PeCDD	1.55e3	0.73	YES	0.826	9.997	31.135	31.12	1.001	1.000	1.3028		0.202	1.32
3	3 1,2,3,4,7,8-HxCDD	1.30e3	1.05	YES	0.972	9.997	34.480	34.47	1.001	1.000	1.4627		0.421	1.36
4	4 1,2,3,6,7,8-HxCDD	9.08e3	1.24	NO	0.877	9.997	34.606	34.60	1.001	1.000	10.279		0.428	10.3
5	5 1,2,3,7,8,9-HxCDD	4.02e3	1.19	NO	0.874	9.997	34.888	34.89	1.000	1.000	4.5028		0.440	4.50
6	6 1,2,3,4,6,7,8-HpCDD	1.66e5	1.04	NO	0.899	9.997	38.261	38.26	1.000	1.000	232.37		1.34	232
7	7 OCDD	1.99e6	0.88	NO	0.852	9.997	41.349	41.36	1.000	1.001	3744.7		2.68	3740
8	8 2,3,7,8-TCDF	1.06e5	0.74	NO	0.747	9.997	26.026	26.05	1.000	1.001	47.409		0.252	47.4
9	9 1,2,3,7,8-PeCDF	1.36e5	1.59	NO	0.877	9.997	29.916	29.93	1.000	1.001	73.908		0.350	73.9
10	10 2,3,4,7,8-PeCDF	7.34e4	1.58	NO	0.962	9.997	30.945	30.95	1.001	1.001	38.165		0.312	38.2
11	11 1,2,3,4,7,8-HxCDF	1.58e5	1.24	NO	0.920	9.997	33.527	33.54	1.000	1.001	127.69		0.392	128
12	12 1,2,3,6,7,8-HxCDF	4.78e4	1.23	NO	0.936	9.997	33.683	33.67	1.001	1.000	35.253		0.376	35.3
13	13 2,3,4,6,7,8-HxCDF	1.14e4	1.18	NO	0.973	9.997	34.365	34.39	1.001	1.001	9.6948		0.443	9.69
14	14 1,2,3,7,8,9-HxCDF	4.46e3	1.08	NO	0.940	9.997	35.433	35.45	1.000	1.001	4.5894		0.572	4.59
15	15 1,2,3,4,6,7,8-HpCDF	8.72e4	1.00	NO	1.05	9.997	37.058	37.05	1.000	1.000	104.32		0.477	104
16	16 1,2,3,4,7,8,9-HpCDF	1.95e4	1.04	NO	1.05	9.997	38.921	38.92	1.000	1.000	28.761		0.531	28.8
17	17 OCDF	1.52e5	0.85	NO	0.771	9.997	41.684	41.69	1.000	1.000	252.65		0.673	253
18	18 13C-2,3,7,8-TCDD	5.92e5	0.77	NO	1.10	9.997	26.632	26.64	1.027	1.027	288.38	144	0.253	
19	19 13C-1,2,3,7,8-PeCDD	2.70e5	0.63	NO	0.864	9.997	31.007	31.10	1.196	1.199	168.44	84.2	0.289	
20	20 13C-1,2,3,4,7,8-HxCDD	1.83e5	1.31	NO	0.746	9.997	34.457	34.46	1.014	1.014	166.86	83.4	0.530	
21	21 13C-1,2,3,6,7,8-HxCDD	2.01e5	1.29	NO	0.847	9.997	34.576	34.58	1.017	1.018	161.71	80.8	0.467	
22	22 13C-1,2,3,7,8,9-HxCDD	2.04e5	1.23	NO	0.868	9.997	34.875	34.88	1.026	1.026	159.92	79.9	0.455	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.59e5	1.04	NO	0.664	9.997	38.223	38.25	1.125	1.125	162.90	81.4	0.662	
24	24 13C-OCDD	2.49e5	0.91	NO	0.561	9.997	41.170	41.34	1.211	1.216	302.43	75.6	0.962	
25	25 13C-2,3,7,8-TCDF	5.99e5	0.78	NO	1.09	9.997	26.022	26.02	1.003	1.003	187.75	93.9	0.249	
26	26 13C-1,2,3,7,8-PeCDF	4.20e5	1.60	NO	0.809	9.997	29.739	29.91	1.147	1.153	177.55	88.8	1.00	
27	27 13C-2,3,4,7,8-PeCDF	4.00e5	1.62	NO	0.803	9.997	30.698	30.92	1.184	1.192	170.66	85.3	1.01	
28	28 13C-1,2,3,4,7,8-HxCDF	2.69e5	0.49	NO	1.01	9.997	33.529	33.52	0.987	0.986	181.04	90.5	0.759	
29	29 13C-1,2,3,6,7,8-HxCDF	2.90e5	0.50	NO	1.07	9.997	33.658	33.66	0.990	0.990	183.52	91.7	0.715	
30	30 13C-2,3,4,6,7,8-HxCDF	2.43e5	0.50	NO	0.910	9.997	34.348	34.34	1.011	1.010	181.42	90.7	0.844	
31	31 13C-1,2,3,7,8,9-HxCDF	2.07e5	0.50	NO	0.828	9.997	35.426	35.42	1.042	1.042	169.89	84.9	0.926	

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_5.qld

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Printed: Friday, June 18, 2021 17:39:01 Pacific Daylight Time

Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.60e5	0.43	NO	0.661	9.997	37.033	37.04	1.090	1.090	164.16	82.1	0.719	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.30e5	0.43	NO	0.566	9.997	38.794	38.91	1.141	1.145	156.00	78.0	0.839	
34	34 13C-OCDF	3.12e5	0.87	NO	0.663	9.997	41.557	41.68	1.223	1.226	319.84	79.9	0.759	
35	35 37Cl-2,3,7,8-TCDD	4.67e5			2.07	9.997	26.831	26.67	1.035	1.028	121.62	152	0.0509	
36	36 13C-1,2,3,4-TCDD	3.72e5	0.79	NO	1.00	9.997	26.070	25.93	1.000	1.000	200.06	100	0.280	
37	37 13C-1,2,3,4-TCDF	5.84e5	0.79	NO	1.00	9.997	24.760	24.57	1.000	1.000	200.06	100	0.272	
38	38 13C-1,2,3,4,6,9-HxCDF	2.94e5	0.50	NO	1.00	9.997	34.040	33.99	1.000	1.000	200.06	100	0.768	
39	39 Total Tetra-Dioxins				0.929	9.997	24.620		0.000		3.7605		0.333	4.81
40	40 Total Penta-Dioxins				0.826	9.997	29.960		0.000		8.1665		0.202	12.5
41	41 Total Hexa-Dioxins				0.877	9.997	33.635		0.000		81.328		0.444	83.3
42	42 Total Hepta-Dioxins				0.899	9.997	37.640		0.000		487.59		1.34	488
43	43 Total Tetra-Furans				0.747	9.997	23.610		0.000		139.74		0.252	141
44	44 1st Func. Penta-Furans				0.877	9.997	27.620		0.000		18.719		0.262	18.7
45	45 Total Penta-Furans				0.877	9.997	29.275		0.000		194.23		0.346	196
46	46 Total Hexa-Furans				0.973	9.997	33.555		0.000		258.84		0.423	260
47	47 Total Hepta-Furans				1.05	9.997	37.835		0.000		257.83		0.501	258

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_5.qld

Last Altered: Friday, June 18, 2021 17:29:59 Pacific Daylight Time

Printed: Friday, June 18, 2021 17:39:01 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.18	2.135e4	2.959e4	1.664e3	2.327e3	0.72	NO	3.991e3	1.4522	1.4522	0.333
2	Total Tetra-Dioxins	23.51	6.355e3	8.741e3	5.135e2	6.555e2	0.78	NO	1.169e3	0.42539	0.42539	0.333
3	Total Tetra-Dioxins	23.98	7.323e3	7.391e3	5.156e2	6.310e2	0.82	NO	1.147e3	0.41723	0.41723	0.333
4	Total Tetra-Dioxins	24.72	5.284e3	6.479e3	2.781e2	3.568e2	0.78	NO	6.349e2	0.23104	0.23104	0.333
5	Total Tetra-Dioxins	24.93	4.020e3	4.352e3	2.460e2	3.097e2	0.79	NO	5.558e2	0.20224	0.20224	0.333
6	Total Tetra-Dioxins	25.14	6.466e3	8.668e3	4.365e2	6.142e2	0.71	NO	1.051e3	0.38233	0.38233	0.333
7	Total Tetra-Dioxins	25.61	2.870e3	3.360e3	1.633e2	2.149e2	0.76	NO	3.782e2	0.13761	0.13761	0.333
8	Total Tetra-Dioxins	25.67	3.343e3	3.598e3	1.647e2	2.399e2	0.69	NO	0.000e0	0.00000	0.14725	0.333
9	Total Tetra-Dioxins	26.41	6.218e3	8.407e3	4.377e2	5.671e2	0.77	NO	1.005e3	0.36563	0.36563	0.333
10	2,3,7,8-TCDD	26.67	1.871e4	2.848e4	1.078e3	1.823e3	0.59	YES	2.901e3	0.00000	0.90142	0.333
11	Total Tetra-Dioxins	27.00	3.325e3	4.149e3	1.840e2	2.194e2	0.84	NO	4.034e2	0.14681	0.14681	0.333

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.95	2.663e4	4.049e4	1.637e3	2.601e3	0.63	NO	4.238e3	3.7983	3.7983	0.202
2	Total Penta-Dioxins	29.40	8.376e3	1.320e4	3.637e2	6.414e2	0.57	NO	1.005e3	0.90073	0.90073	0.202
3	Total Penta-Dioxins	29.91	1.957e4	2.452e4	1.012e3	1.354e3	0.75	YES	0.000e0	0.00000	1.9776	0.202
4	Total Penta-Dioxins	30.06	8.356e3	1.985e4	4.844e2	8.337e2	0.58	NO	1.318e3	1.1812	1.1812	0.202
5	Total Penta-Dioxins	30.12	1.030e4	1.071e4	4.127e2	5.269e2	0.78	YES	0.000e0	0.00000	0.76972	0.202
6	Total Penta-Dioxins	30.35	1.015e4	1.539e4	6.492e2	1.036e3	0.63	NO	1.685e3	1.5098	1.5098	0.202
7	Total Penta-Dioxins	30.68	4.413e3	3.722e3	1.908e2	1.813e2	1.05	YES	0.000e0	0.00000	0.26482	0.202
8	1,2,3,7,8-PeCDD	31.12	1.386e4	1.682e4	6.540e2	9.003e2	0.73	YES	1.554e3	0.00000	1.3150	0.202
9	Total Penta-Dioxins	31.16	2.294e3	3.866e3	1.516e2	2.143e2	0.71	NO	3.659e2	0.32789	0.32789	0.202
10	Total Penta-Dioxins	31.47	3.994e3	8.127e3	1.810e2	3.195e2	0.57	NO	5.006e2	0.44858	0.44858	0.202

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_5.qld

Last Altered: Friday, June 18, 2021 17:29:59 Pacific Daylight Time

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Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.75	2.637e5	2.169e5	1.261e4	9.900e3	1.27	NO	2.251e4	26.157	26.157	0.444
2	Total Hexa-Dioxins	33.38	3.312e4	2.902e4	1.548e3	1.263e3	1.23	NO	2.811e3	3.2675	3.2675	0.444
3	Total Hexa-Dioxins	33.68	2.617e5	2.095e5	1.783e4	1.411e4	1.26	NO	3.194e4	37.122	37.122	0.444
4	1,2,3,4,7,8-HxCDD	34.47	1.381e4	1.314e4	6.677e2	6.343e2	1.05	YES	1.302e3	0.00000	1.3551	0.421
5	1,2,3,6,7,8-HxCDD	34.60	8.395e4	7.256e4	5.024e3	4.053e3	1.24	NO	9.076e3	10.279	10.279	0.428
6	Total Hexa-Dioxins	34.77	6.219e3	6.290e3	3.110e2	3.702e2	0.84	YES	0.000e0	0.00000	0.65293	0.444
7	1,2,3,7,8,9-HxCDD	34.89	3.696e4	3.465e4	2.184e3	1.833e3	1.19	NO	4.017e3	4.5028	4.5028	0.440

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	1.720e6	1.657e6	9.294e4	8.951e4	1.04	NO	1.825e5	255.22	255.22	1.34
2	1,2,3,4,6,7,8-HpCDD	38.26	1.635e6	1.596e6	8.487e4	8.125e4	1.04	NO	1.661e5	232.37	232.37	1.34

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_5.qld

Last Altered: Friday, June 18, 2021 17:29:59 Pacific Daylight Time

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Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.03	3.039e3	4.620e3	3.055e2	3.803e2	0.80	NO	6.858e2	0.30666	0.30666	0.252
2	Total Tetra-Furans	21.62	1.160e4	1.619e4	1.201e3	1.413e3	0.85	NO	2.615e3	1.1693	1.1693	0.252
3	Total Tetra-Furans	22.42	6.898e4	8.675e4	5.610e3	7.225e3	0.78	NO	1.283e4	5.7394	5.7394	0.252
4	Total Tetra-Furans	22.87	2.334e4	3.006e4	1.791e3	2.594e3	0.69	NO	4.385e3	1.9609	1.9609	0.252
5	Total Tetra-Furans	22.96	1.558e4	1.691e4	7.119e2	9.499e2	0.75	NO	1.662e3	0.74315	0.74315	0.252
6	Total Tetra-Furans	23.24	1.437e5	1.720e5	1.099e4	1.430e4	0.77	NO	2.529e4	11.309	11.309	0.252
7	Total Tetra-Furans	23.66	5.259e4	7.095e4	4.387e3	5.610e3	0.78	NO	9.997e3	4.4705	4.4705	0.252
8	Total Tetra-Furans	23.76	1.559e4	2.118e4	1.031e3	1.266e3	0.81	NO	2.297e3	1.0271	1.0271	0.252
9	Total Tetra-Furans	23.98	3.084e4	4.368e4	2.227e3	3.075e3	0.72	NO	5.302e3	2.3711	2.3711	0.252
10	Total Tetra-Furans	24.35	5.036e3	6.824e3	2.572e2	3.687e2	0.70	NO	6.259e2	0.27987	0.27987	0.252
11	Total Tetra-Furans	24.45	1.146e4	1.141e4	7.190e2	9.435e2	0.76	NO	1.663e3	0.74345	0.74345	0.252
12	Total Tetra-Furans	24.62	2.278e4	3.128e4	6.656e2	8.003e2	0.83	NO	1.466e3	0.65551	0.65551	0.252
13	Total Tetra-Furans	24.68	7.169e4	9.789e4	7.036e3	9.100e3	0.77	NO	1.614e4	7.2158	7.2158	0.252
14	Total Tetra-Furans	25.11	6.471e5	8.503e5	4.089e4	5.392e4	0.76	NO	9.481e4	42.397	42.397	0.252
15	Total Tetra-Furans	25.40	2.072e4	2.806e4	1.345e3	1.865e3	0.72	NO	3.211e3	1.4358	1.4358	0.252
16	Total Tetra-Furans	25.49	6.158e3	6.520e3	2.739e2	3.638e2	0.75	NO	6.377e2	0.28517	0.28517	0.252
17	Total Tetra-Furans	25.79	5.921e3	1.055e4	4.166e2	6.609e2	0.63	YES	0.000e0	0.00000	0.42825	0.252
18	Total Tetra-Furans	25.92	7.632e4	1.008e5	4.380e3	5.511e3	0.79	NO	9.892e3	4.4234	4.4234	0.252
19	2,3,7,8-TCDF	26.05	7.202e5	9.709e5	4.525e4	6.077e4	0.74	NO	1.060e5	47.409	47.409	0.252
20	Total Tetra-Furans	26.33	2.550e4	3.558e4	1.758e3	2.419e3	0.73	NO	4.176e3	1.8675	1.8675	0.252
21	Total Tetra-Furans	26.58	1.222e4	1.584e4	7.310e2	8.961e2	0.82	NO	1.627e3	0.72761	0.72761	0.252
22	Total Tetra-Furans	27.43	1.342e4	1.639e4	9.017e2	9.752e2	0.92	YES	0.000e0	0.00000	0.77188	0.252
23	Total Tetra-Furans	27.63	1.332e4	9.407e3	8.197e2	4.818e2	1.70	YES	0.000e0	0.00000	0.38135	0.252
24	Total Tetra-Furans	27.84	5.389e4	7.141e4	3.017e3	4.153e3	0.73	NO	7.170e3	3.2064	3.2064	0.252

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.41	3.731e5	2.188e5	2.082e4	1.282e4	1.62	NO	3.364e4	18.719	18.719	0.262

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Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	3.818e4	2.479e4	2.230e3	1.494e3	1.49	NO	3.724e3	2.0720	2.0720	0.346
2	Total Penta-Furans	28.98	8.902e5	5.705e5	4.795e4	2.976e4	1.61	NO	7.772e4	43.246	43.246	0.346
3	Total Penta-Furans	29.58	6.667e4	5.000e4	4.829e3	3.339e3	1.45	NO	8.168e3	4.5451	4.5451	0.346
4	Total Penta-Furans	29.73	1.499e5	1.071e5	8.200e3	5.479e3	1.50	NO	1.368e4	7.6113	7.6113	0.346
5	1,2,3,7,8-PeCDF	29.93	1.639e6	1.053e6	8.351e4	5.247e4	1.59	NO	1.360e5	73.908	73.908	0.350
6	Total Penta-Furans	30.17	5.527e5	3.408e5	2.633e4	1.685e4	1.56	NO	4.318e4	24.028	24.028	0.346
7	Total Penta-Furans	30.77	1.761e4	9.820e3	7.236e2	4.466e2	1.62	NO	1.170e3	0.65113	0.65113	0.346
8	2,3,4,7,8-PeCDF	30.95	8.897e5	5.426e5	4.496e4	2.848e4	1.58	NO	7.344e4	38.165	38.165	0.312
9	Total Penta-Furans	31.77	3.220e4	1.450e4	1.165e3	4.842e2	2.41	YES	0.000e0	0.00000	0.68705	0.346
10	Total Penta-Furans	31.84	3.614e4	1.722e4	1.788e3	9.918e2	1.80	YES	0.000e0	0.00000	1.4073	0.346

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.22	1.246e5	9.859e4	5.611e3	4.443e3	1.26	NO	1.005e4	8.2009	8.2009	0.423
2	Total Hexa-Furans	32.39	4.523e5	3.725e5	2.053e4	1.698e4	1.21	NO	3.751e4	30.599	30.599	0.423
3	Total Hexa-Furans	32.82	1.013e4	1.033e4	4.876e2	4.930e2	0.99	YES	0.000e0	0.00000	0.71849	0.423
4	Total Hexa-Furans	33.05	4.842e5	3.813e5	2.225e4	1.770e4	1.26	NO	3.995e4	32.590	32.590	0.423
5	Total Hexa-Furans	33.40	1.860e4	1.605e4	9.985e2	8.220e2	1.21	NO	1.820e3	1.4850	1.4850	0.423
6	1,2,3,4,7,8-HxCDF	33.54	1.733e6	1.421e6	8.753e4	7.062e4	1.24	NO	1.581e5	127.69	127.69	0.392
7	1,2,3,6,7,8-HxCDF	33.67	5.022e5	3.852e5	2.635e4	2.145e4	1.23	NO	4.780e4	35.253	35.253	0.376
8	Total Hexa-Furans	34.00	9.622e3	8.506e3	5.807e2	5.217e2	1.11	NO	1.102e3	0.89924	0.89924	0.423
9	2,3,4,6,7,8-HxCDF	34.39	9.594e4	7.921e4	6.185e3	5.253e3	1.18	NO	1.144e4	9.6948	9.6948	0.443
10	1,2,3,7,8,9-HxCDF	35.45	1.121e5	9.314e4	2.318e3	2.144e3	1.08	NO	4.462e3	4.5894	4.5894	0.572
11	Total Hexa-Furans	35.46	1.337e5	1.031e5	5.426e3	4.179e3	1.30	NO	9.605e3	7.8352	7.8352	0.423

Quantify Totals Report MassLynx 4.1 SCN815

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Dataset: U:\VG12.PRO\Results\210609R1\210609R1_5.qld

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Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504**Hepta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.05	7.589e5	7.681e5	4.361e4	4.360e4	1.00	NO	8.721e4	104.32	104.32	0.477
2	Total Hepta-Furans	37.48	1.560e4	1.334e4	8.420e2	7.925e2	1.06	NO	1.634e3	2.1561	2.1561	0.501
3	Total Hepta-Furans	37.68	9.257e5	9.290e5	4.651e4	4.642e4	1.00	NO	9.294e4	122.59	122.59	0.501
4	1,2,3,4,7,8,9-HpCDF	38.92	1.912e5	1.937e5	9.928e3	9.582e3	1.04	NO	1.951e4	28.761	28.761	0.531

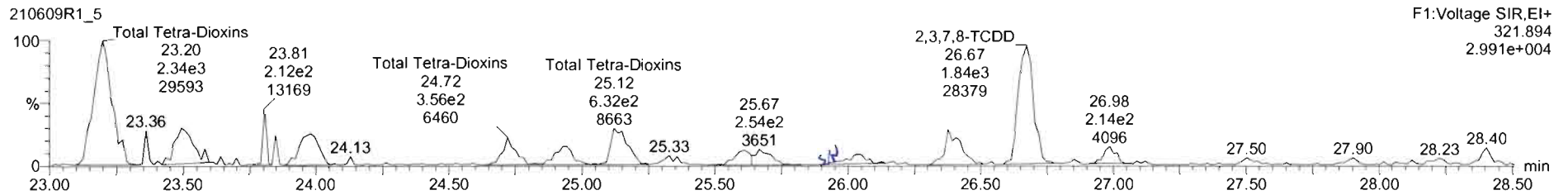
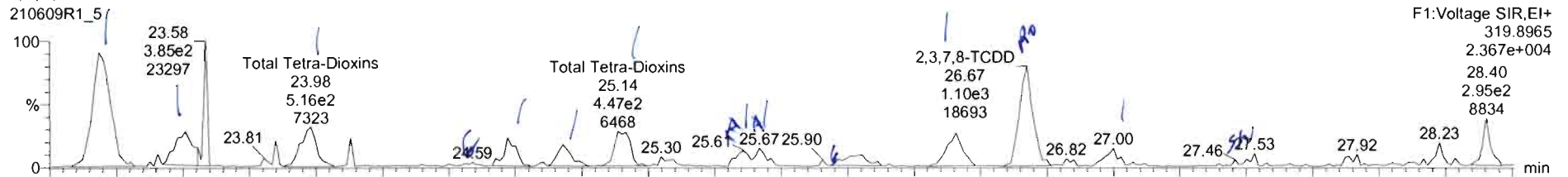
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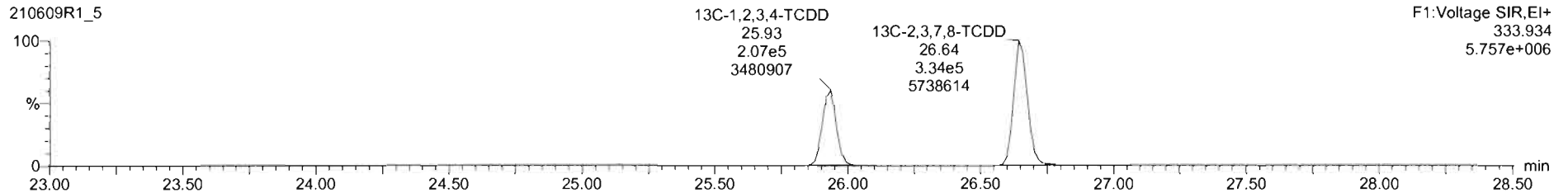
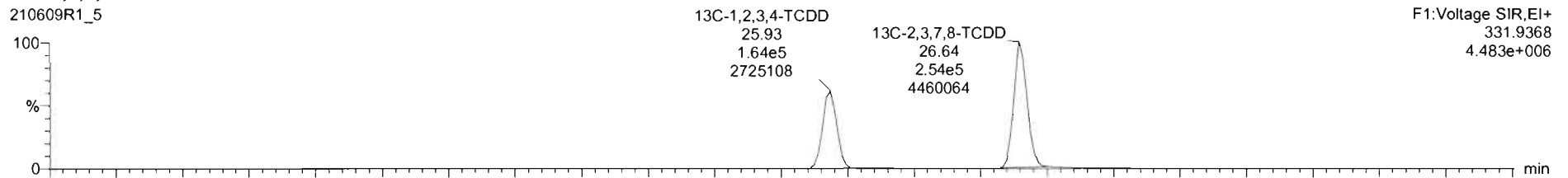
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2,3,7,8-TCDD

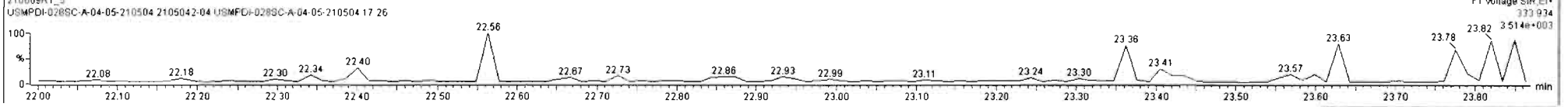
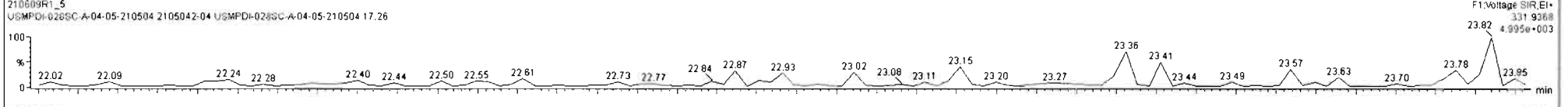
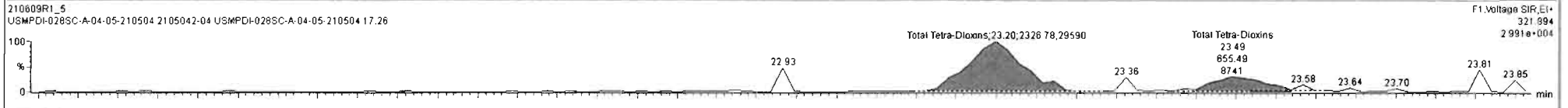
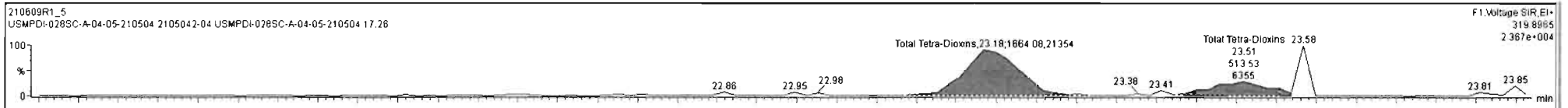


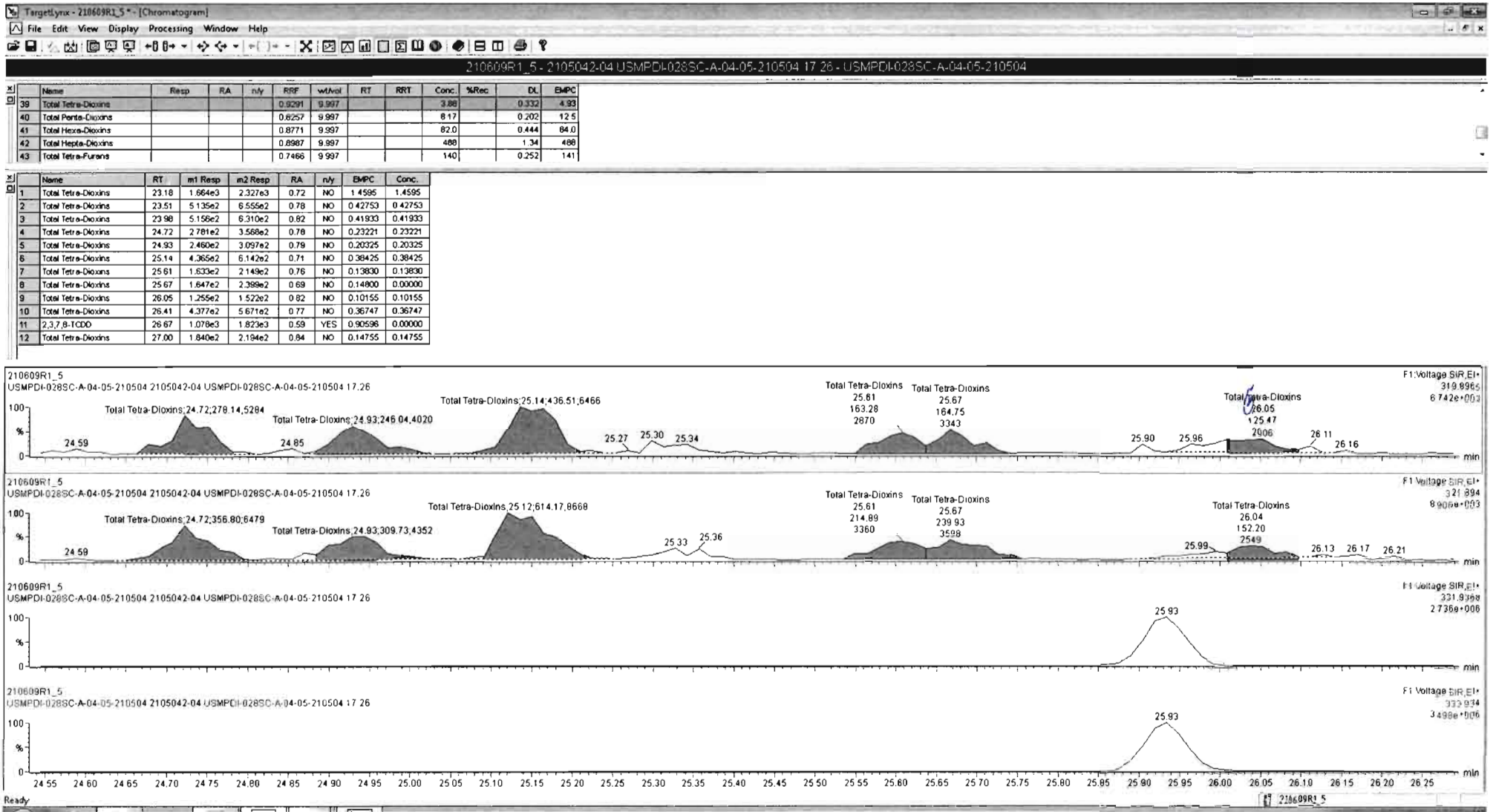
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Name	Resp	RA	n/y	R/R	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	9.997			3.86		0.332	4.93
40 Total Penta-Dioxins				0.8257	9.997			8.17		0.202	12.5
41 Total Hexa-Dioxins				0.8771	9.997			82.0		0.444	84.0
42 Total Hepta-Dioxins				0.8987	9.997			488		1.34	488
43 Total Tetra-Furans				0.7466	9.997			140		0.252	141

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxans	23.18	1.864e3	2.327e3	0.72	NO	1.4595	1.4595
2 Total Tetra-Dioxans	23.51	5.135e2	6.555e2	0.78	NO	0.42753	0.42753
3 Total Tetra-Dioxans	23.98	5.156e2	6.310e2	0.82	NO	0.41933	0.41933
4 Total Tetra-Dioxans	24.72	2.781e2	3.568e2	0.78	NO	0.23221	0.23221
5 Total Tetra-Dioxans	24.93	2.460e2	3.097e2	0.79	NO	0.20325	0.20325
6 Total Tetra-Dioxans	25.14	4.365e2	6.142e2	0.71	NO	0.38425	0.38425
7 Total Tetra-Dioxans	25.81	1.633e2	2.149e2	0.76	NO	0.13830	0.13830
8 Total Tetra-Dioxans	25.67	1.647e2	2.399e2	0.69	NO	0.14800	0.00000
9 Total Tetra-Dioxins	26.05	1.255e2	1.522e2	0.82	NO	0.10155	0.10155
10 Total Tetra-Dioxins	26.41	4.377e2	5.671e2	0.77	NO	0.36747	0.36747
11 2,3,7,8-TCDD	26.67	1.078e3	1.823e3	0.59	YES	0.90596	0.00000
12 Total Tetra-Dioxins	27.00	1.840e2	2.194e2	0.84	NO	0.14755	0.14755

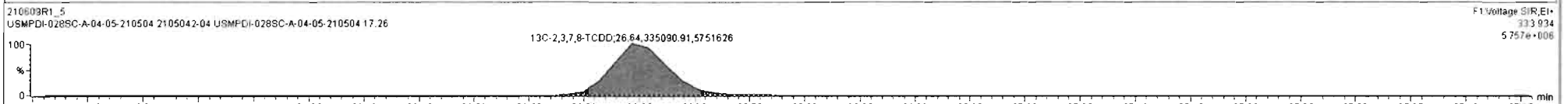
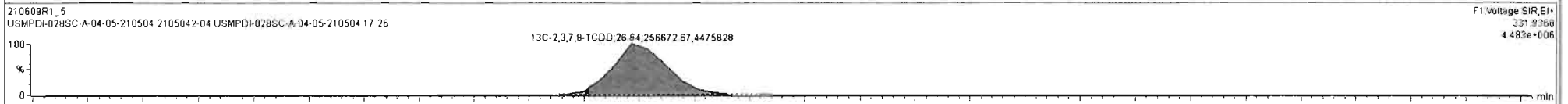
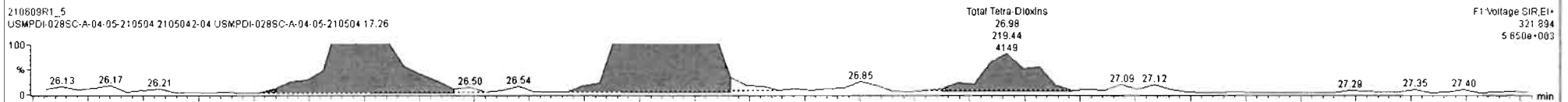
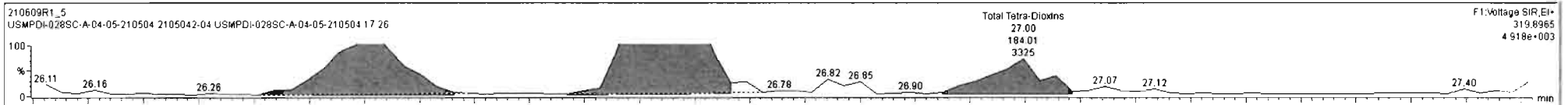




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Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	9.997			3.76		0.333	4.81
40 Total Penta-Dioxins				0.8257	9.997			6.17		0.202	12.5
41 Total Hexa-Dioxins				0.8771	9.997			82.0		0.444	84.0
42 Total Hepta-Dioxins				0.6987	9.997			486		1.34	486
43 Total Tetra-Furans				0.7466	9.997			140		0.252	141

Name	RT	int Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.18	1.864e3	2.327e3	0.72	NO	1.4522	1.4522
2 Total Tetra-Dioxins	23.51	5.135e2	6.555e2	0.78	NO	0.42539	0.42539
3 Total Tetra-Dioxins	23.98	5.156e2	6.310e2	0.82	NO	0.41723	0.41723
4 Total Tetra-Dioxins	24.72	2.781e2	3.588e2	0.78	NO	0.23104	0.23104
5 Total Tetra-Dioxins	24.93	2.460e2	3.097e2	0.79	NO	0.20224	0.20224
6 Total Tetra-Dioxins	25.14	4.365e2	6.142e2	0.71	NO	0.38233	0.38233
7 Total Tetra-Dioxins	25.81	1.633e2	2.149e2	0.76	NO	0.13761	0.13761
8 Total Tetra-Dioxins	25.67	1.647e2	2.399e2	0.69	NO	0.14725	0.00000
9 Total Tetra-Dioxins	26.41	4.377e2	5.871e2	0.77	NO	0.36563	0.36563
10 2,3,7,8-TCDD	26.67	1.078e3	1.823e3	0.58	YES	0.90142	0.00000
11 Total Tetra-Dioxins	27.00	1.840e2	2.194e2	0.84	NO	0.14681	0.14681



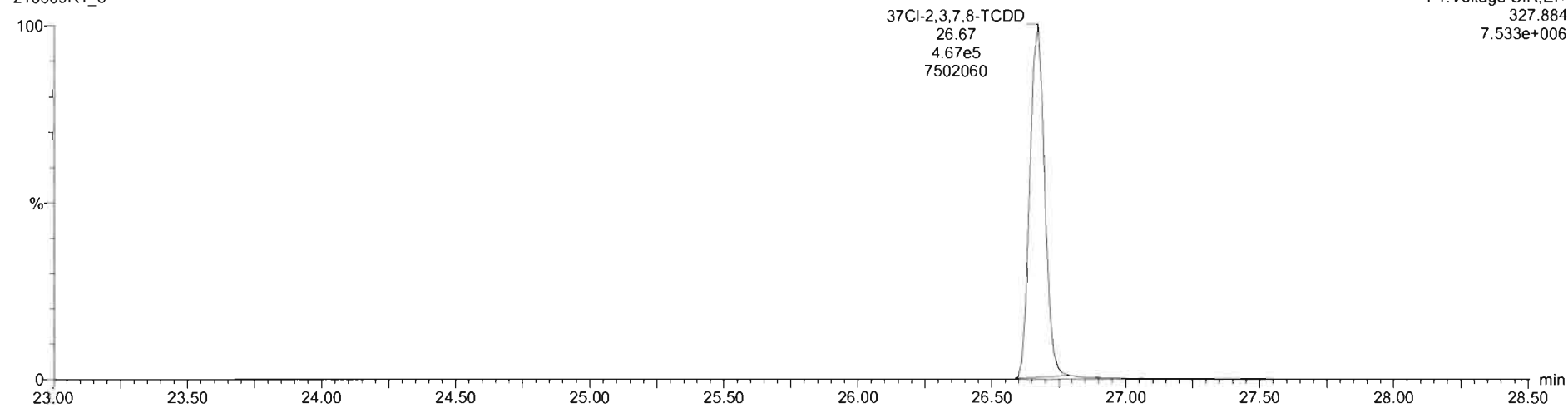
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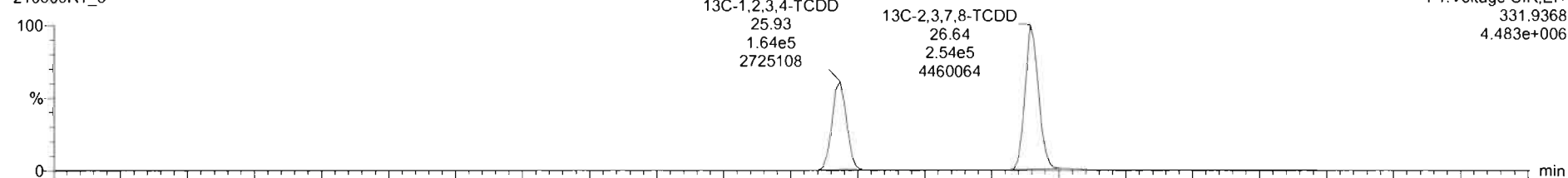
37Cl-2,3,7,8-TCDD

210609R1_5

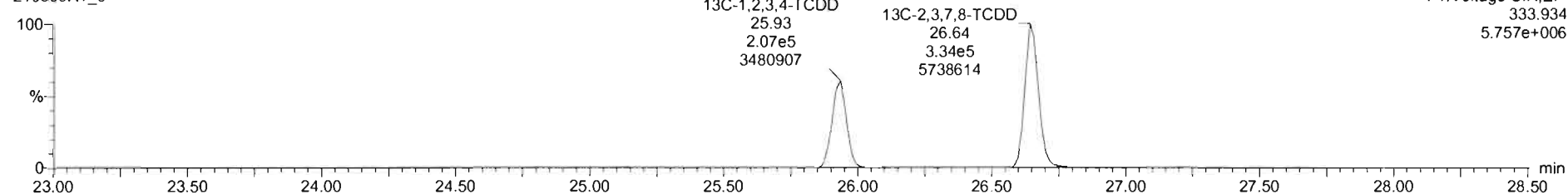


13C-1,2,3,4-TCDD

210609R1_5



210609R1_5

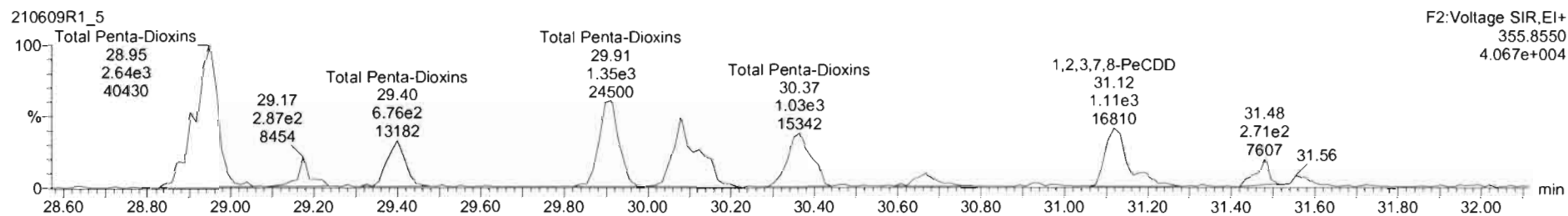
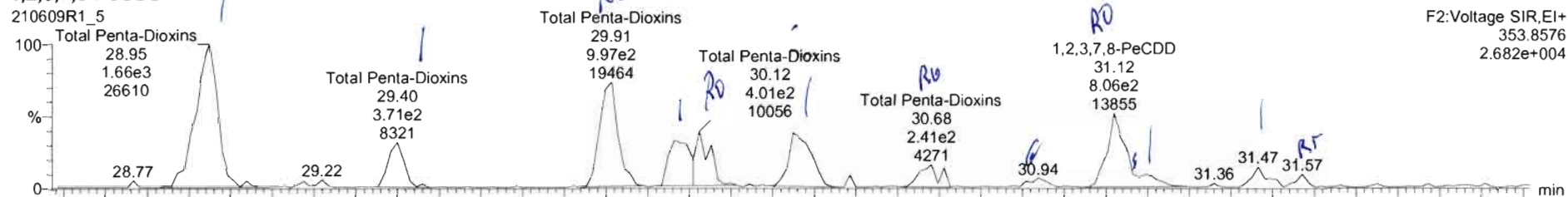


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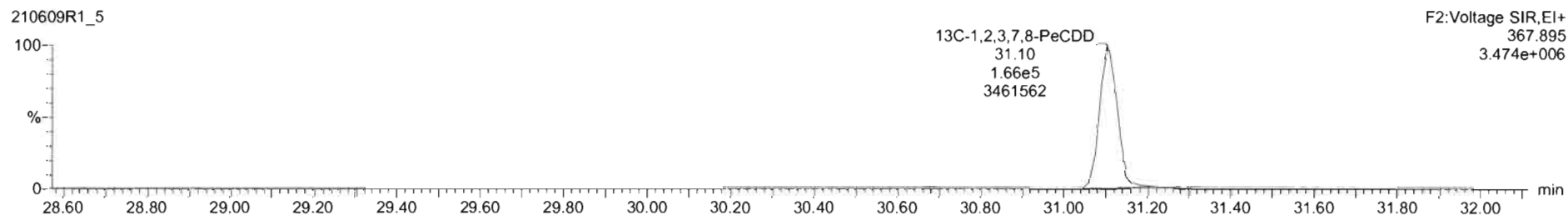
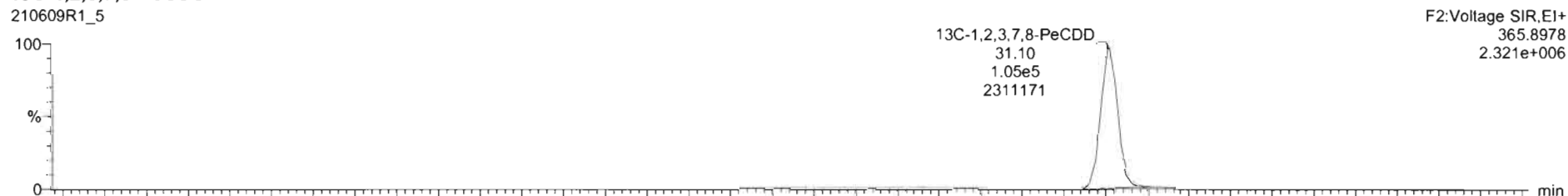
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Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

1,2,3,7,8-PeCDD

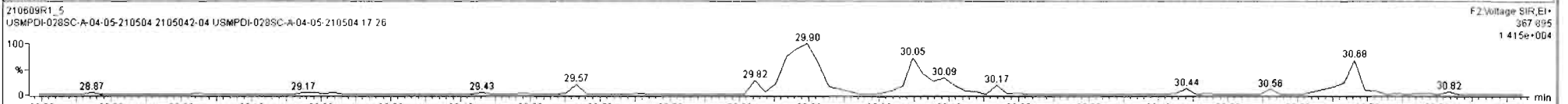
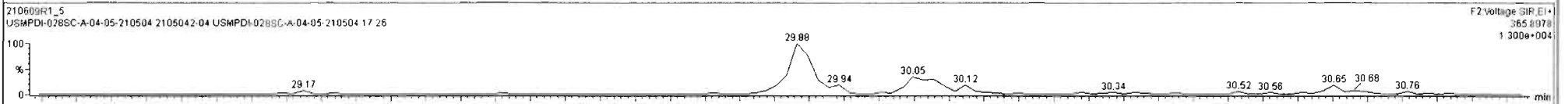
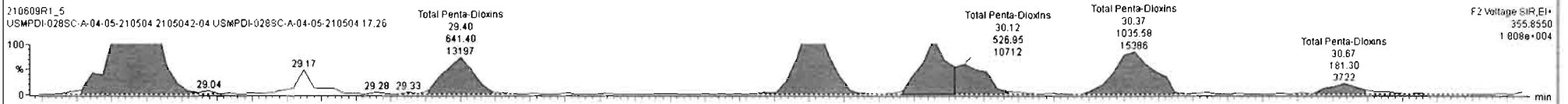
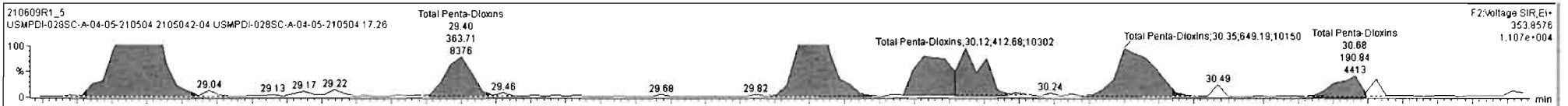


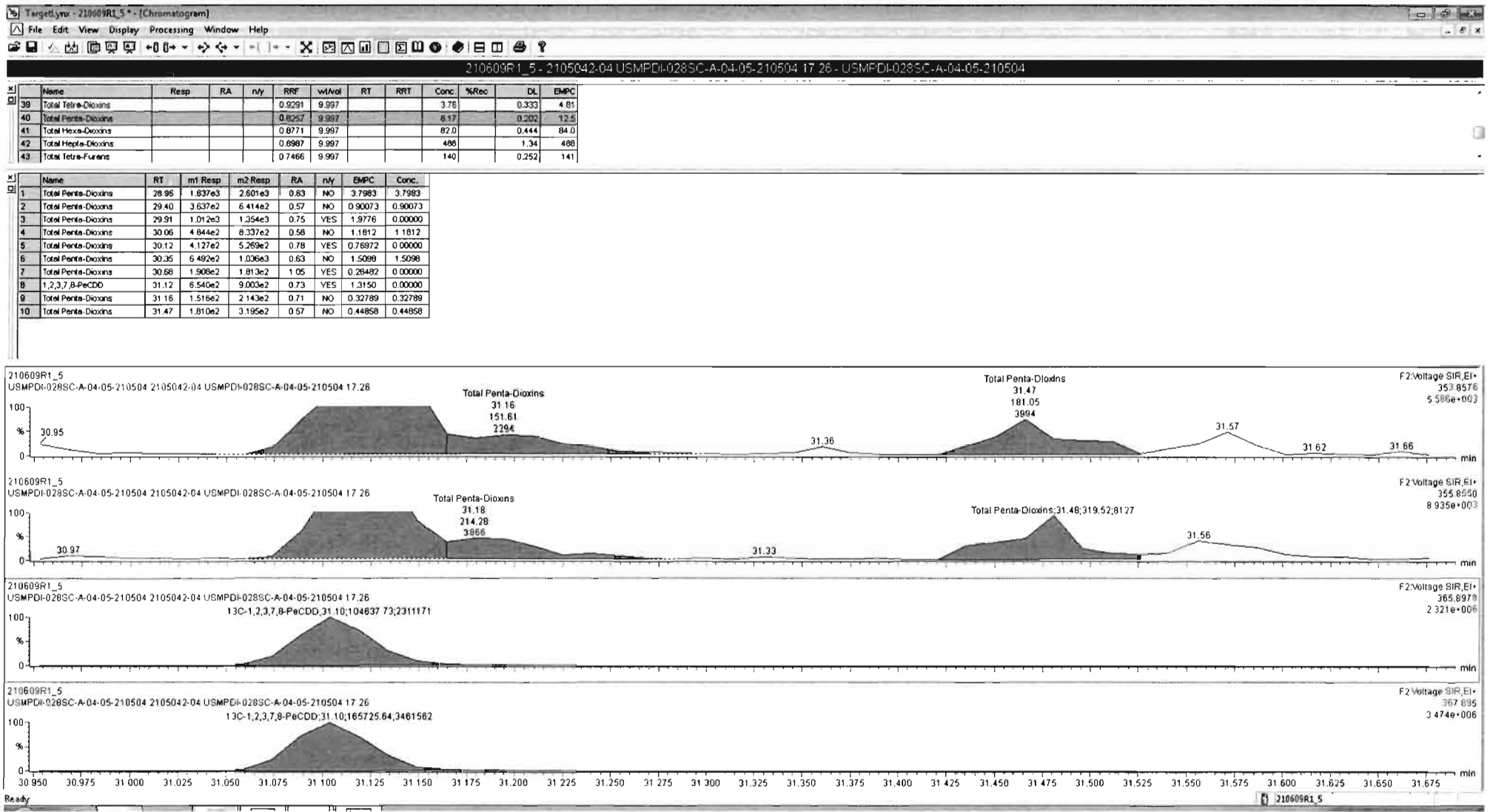
13C-1,2,3,7,8-PeCDD



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	9.997			3.76		0.333	4.81
40 Total Penta-Dioxins				0.8257	9.997			8.17		0.202	12.5
41 Total Hexa-Dioxins				0.8771	9.997			82.0		0.444	84.0
42 Total Hepta-Dioxins				0.8987	9.997			488		1.34	488
43 Total Tetra-Furans				0.7466	9.997			140		0.252	141

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.95	1.637e3	2.601e3	0.63	NO	3.7983	3.7983
2 Total Penta-Dioxins	29.40	3.637e2	6.414e2	0.57	NO	0.90073	0.90073
3 Total Penta-Dioxins	29.91	1.012e3	1.354e3	0.75	YES	1.9776	0.00000
4 Total Penta-Dioxins	30.06	4.844e2	8.337e2	0.58	NO	1.1812	1.1812
5 Total Penta-Dioxins	30.12	4.127e2	5.269e2	0.78	YES	0.76972	0.00000
6 Total Penta-Dioxins	30.35	6.492e2	1.036e3	0.63	NO	1.5098	1.5098
7 Total Penta-Dioxins	30.68	1.906e2	1.813e2	1.05	YES	0.26482	0.00000
8 1,2,3,7,8-PeCDD	31.12	6.540e2	9.003e2	0.73	YES	1.3150	0.00000
9 Total Penta-Dioxins	31.16	1.516e2	2.143e2	0.71	NO	0.32789	0.32789
10 Total Penta-Dioxins	31.47	1.810e2	3.195e2	0.57	NO	0.44858	0.44858



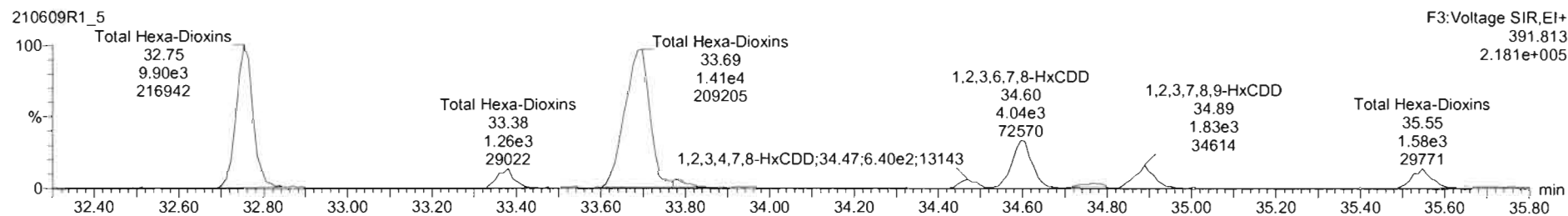
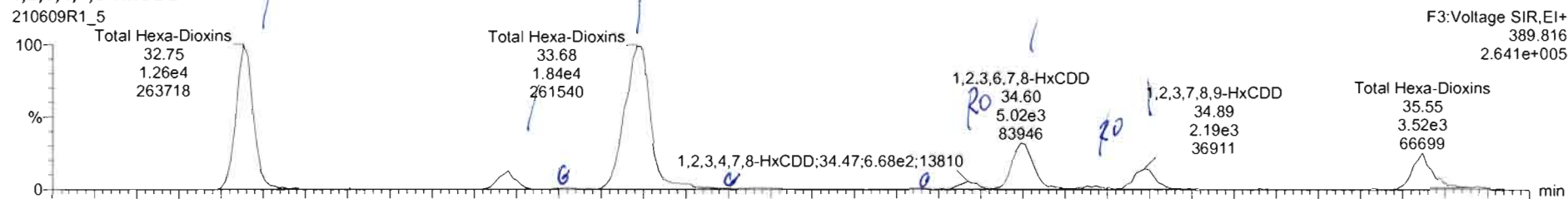


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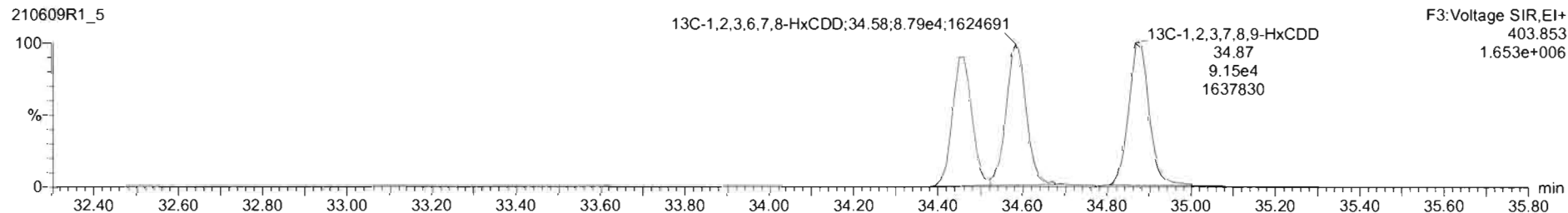
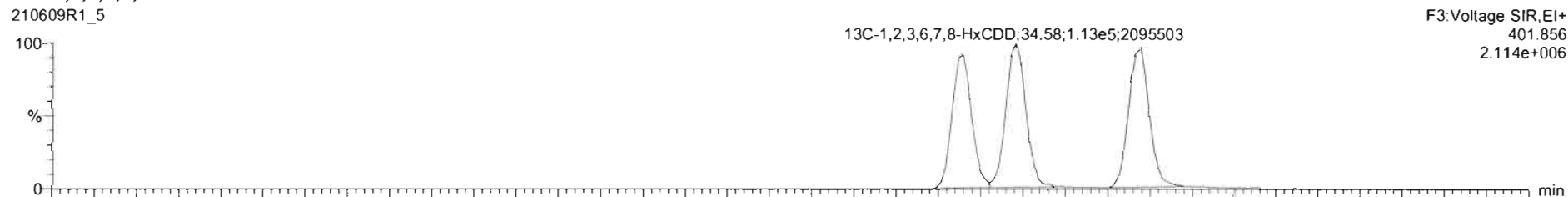
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Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

1,2,3,4,7,8-HxCDD

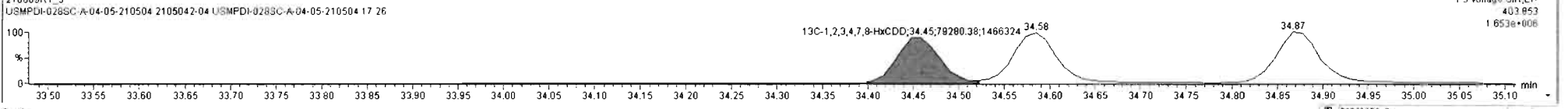
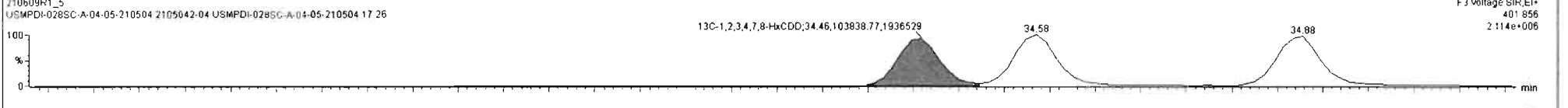
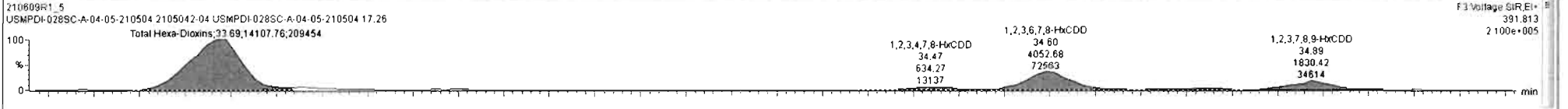
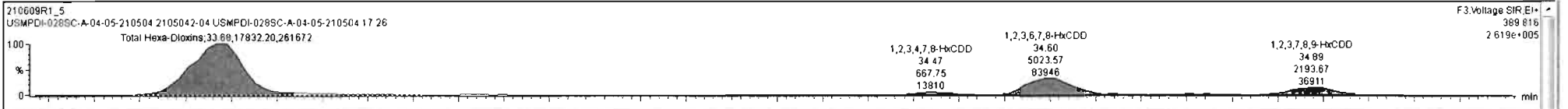


13C-1,2,3,4,7,8-HxCDD



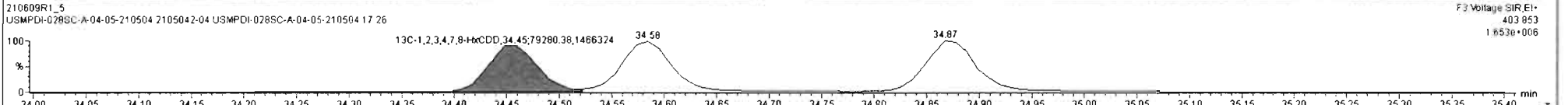
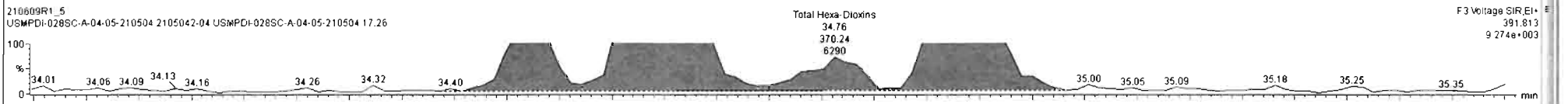
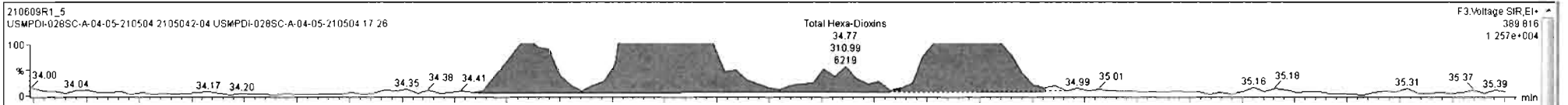
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	9.997			3.76		0.333	4.81
40 Total Penta-Dioxins				0.8257	9.997			8.17		0.202	12.5
41 Total Hexa-Dioxins				0.8771	9.997			81.3		0.444	83.3
42 Total Hepta-Dioxins				0.8587	9.997			408		1.34	488
43 Total Tetra-Furans				0.7486	9.997			140		0.252	141

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.75	1.261e4	9.900e3	1.27	NO	26.157	26.157
2 Total Hexa-Dioxins	33.38	1.548e3	1.263e3	1.23	NO	3.2675	3.2675
3 Total Hexa-Dioxins	33.68	1.783e4	1.411e4	1.26	NO	37.122	37.122
4 1,2,3,4,7,8-HxCDD	34.47	6.677e2	6.343e2	1.05	YES	1.3551	0.00000
5 1,2,3,6,7,8-HxCDD	34.60	5.024e3	4.053e3	1.24	NO	10.279	10.279
6 Total Hexa-Dioxins	34.77	3.110e2	3.702e2	0.84	YES	0.65293	0.00000
7 1,2,3,7,8,9-HxCDD	34.89	2.194e3	1.830e3	1.20	NO	4.5105	4.5105



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	9.997			3.76		0.333	4.81
40 Total Penta-Dioxins				0.0257	9.997			8.17		0.202	12.5
41 Total Hexa-Dioxins				0.8771	9.997			61.3		0.444	63.3
42 Total Hepta-Dioxins				0.8987	9.997			488		1.34	488
43 Total Tetra-Furans				0.7466	9.997			140		0.252	141

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.75	1.261e4	9.900e3	1.27	NO	26.157	26.157
2 Total Hexa-Dioxins	33.38	1.548e3	1.263e3	1.23	NO	3.2675	3.2675
3 Total Hexa-Dioxins	33.68	1.783e4	1.411e4	1.28	NO	37.122	37.122
4 1,2,3,4,7,8-HxCDD	34.47	6.877e2	6.343e2	1.05	YES	1.3551	0.00000
5 1,2,3,6,7,8-HxCDD	34.60	5.024e3	4.053e3	1.24	NO	10.279	10.279
6 Total Hexa-Dioxins	34.77	3.110e2	3.702e2	0.84	YES	0.65293	0.00000
7 1,2,3,7,8,9-HxCDD	34.89	2.194e3	1.833e3	1.19	NO	4.5026	4.5026



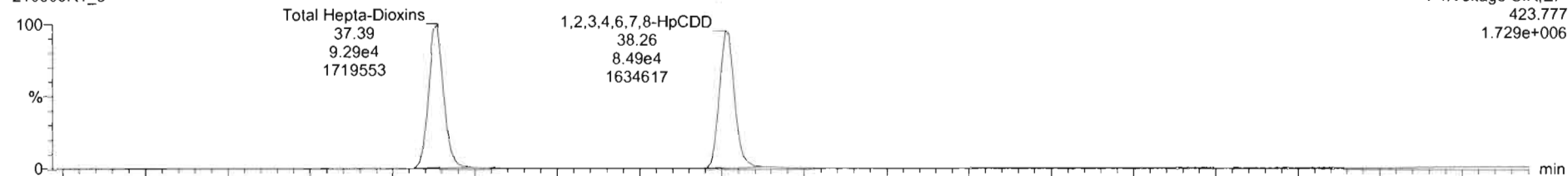
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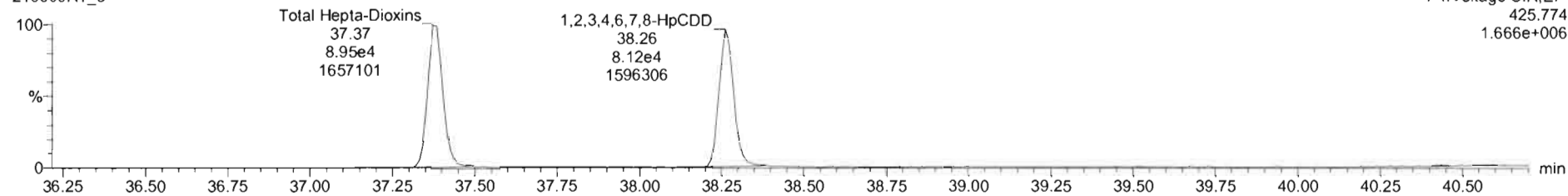
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1,2,3,4,6,7,8-HpCDD

210609R1_5

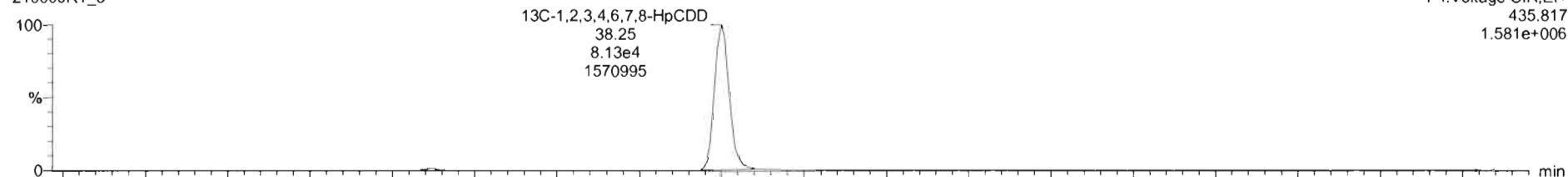


210609R1_5

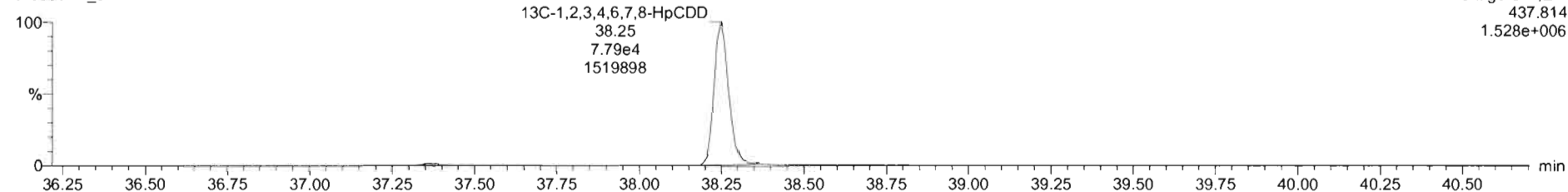


13C-1,2,3,4,6,7,8-HpCDD

210609R1_5



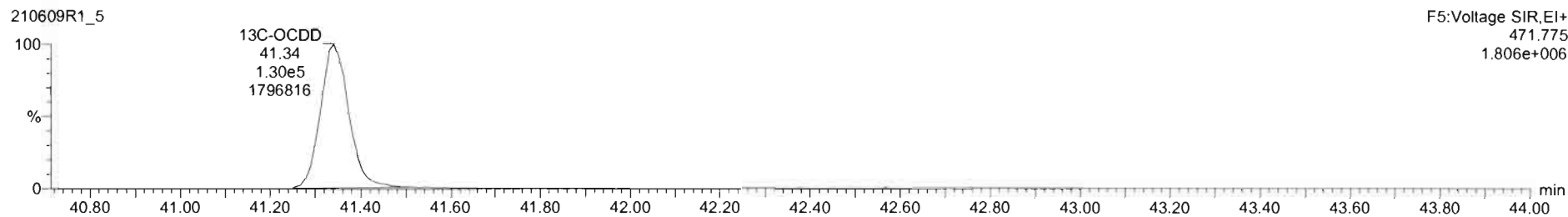
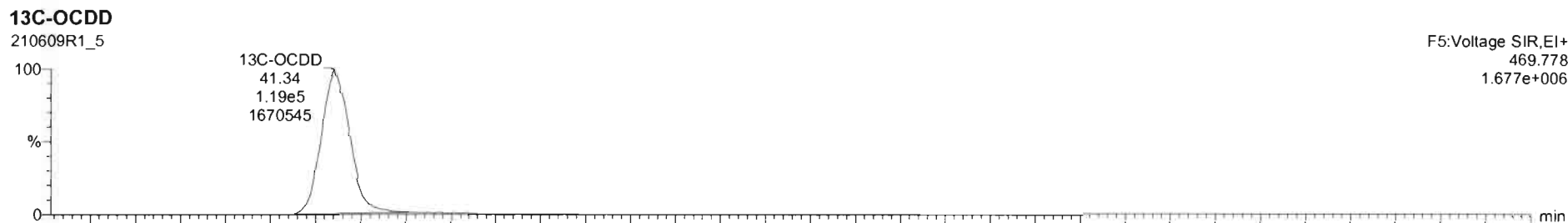
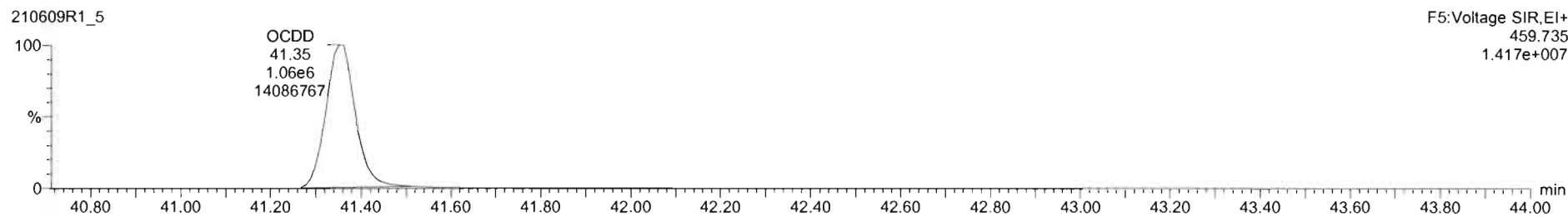
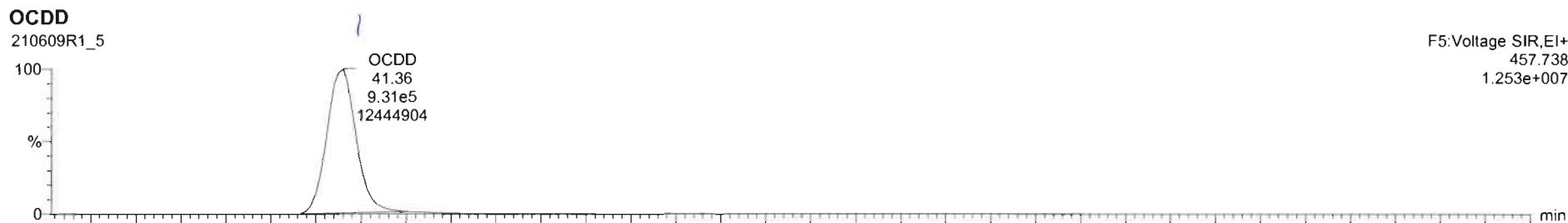
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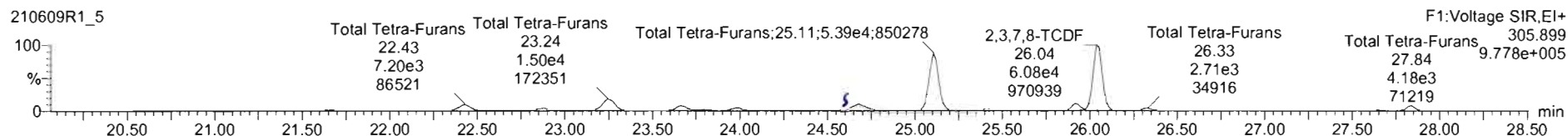
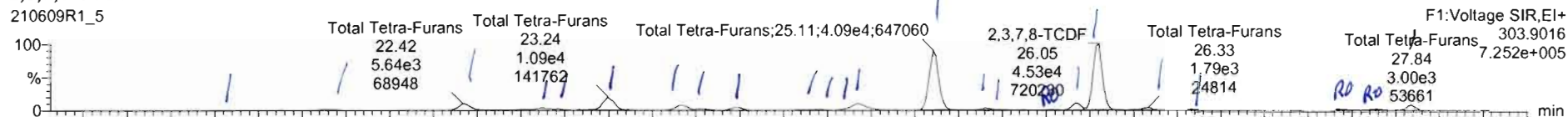


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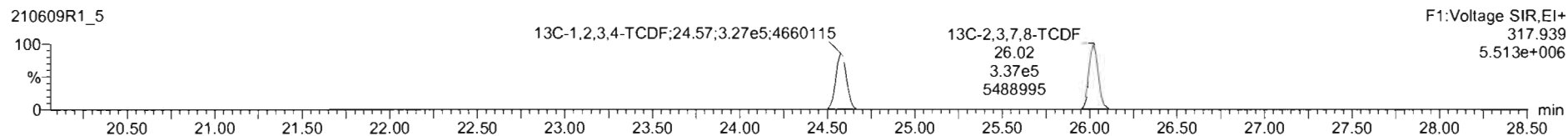
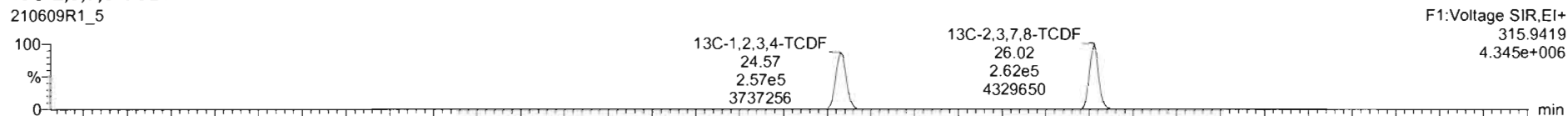
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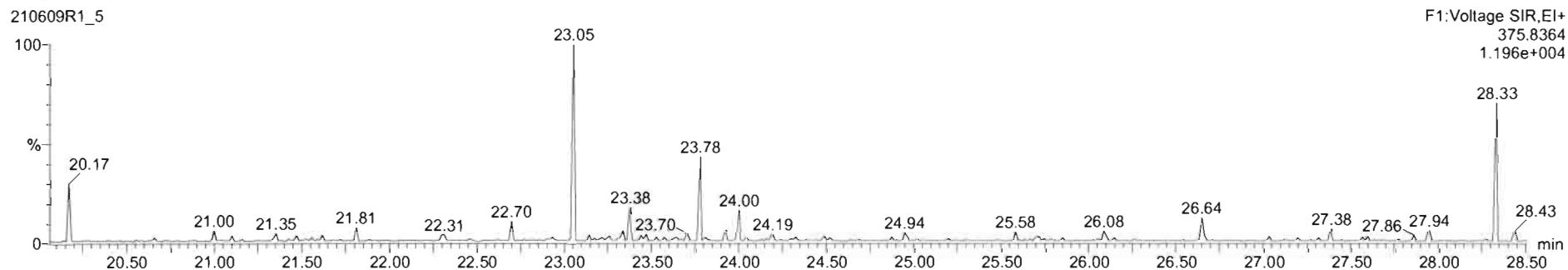
2,3,7,8-TCDF

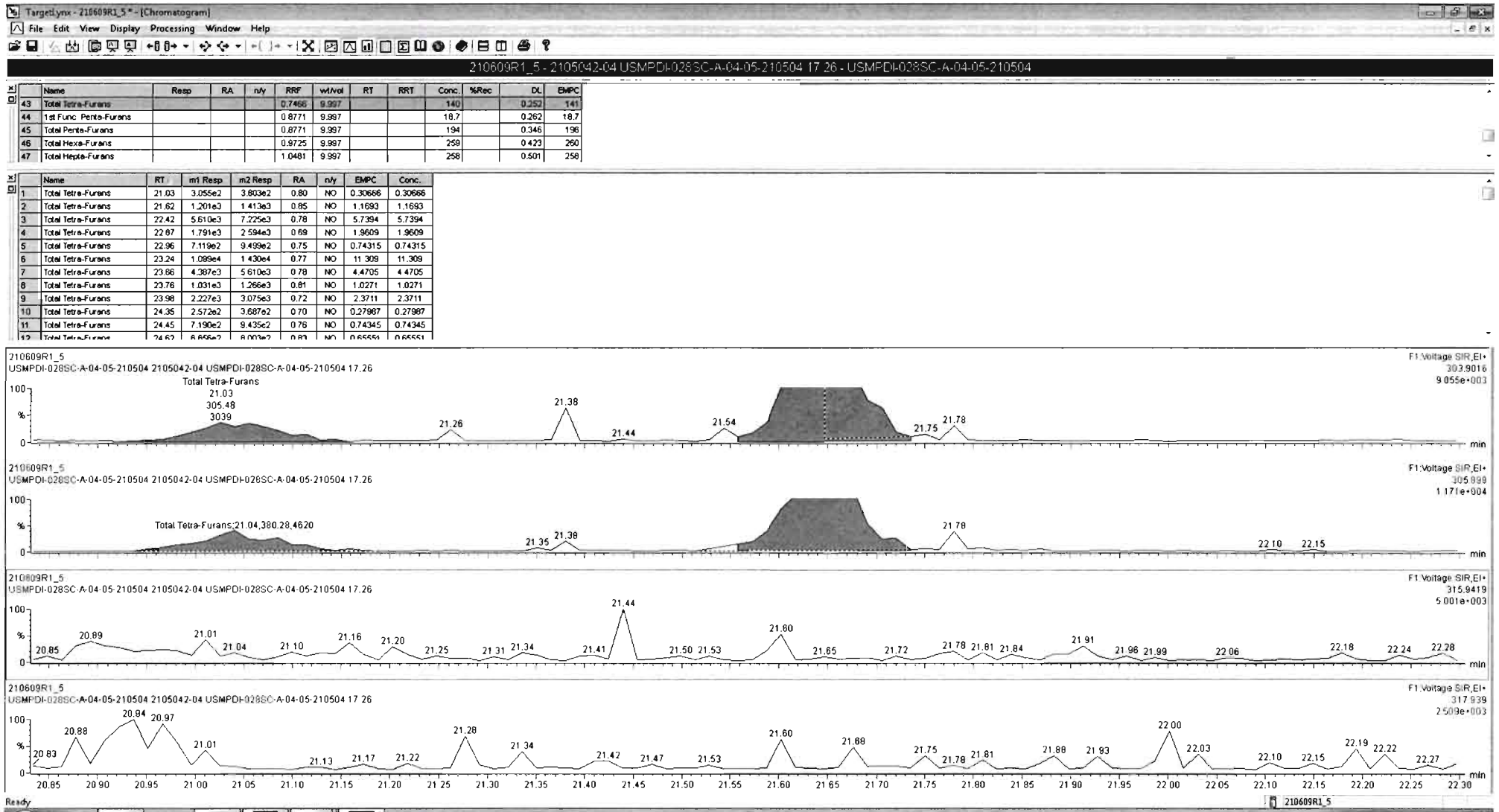


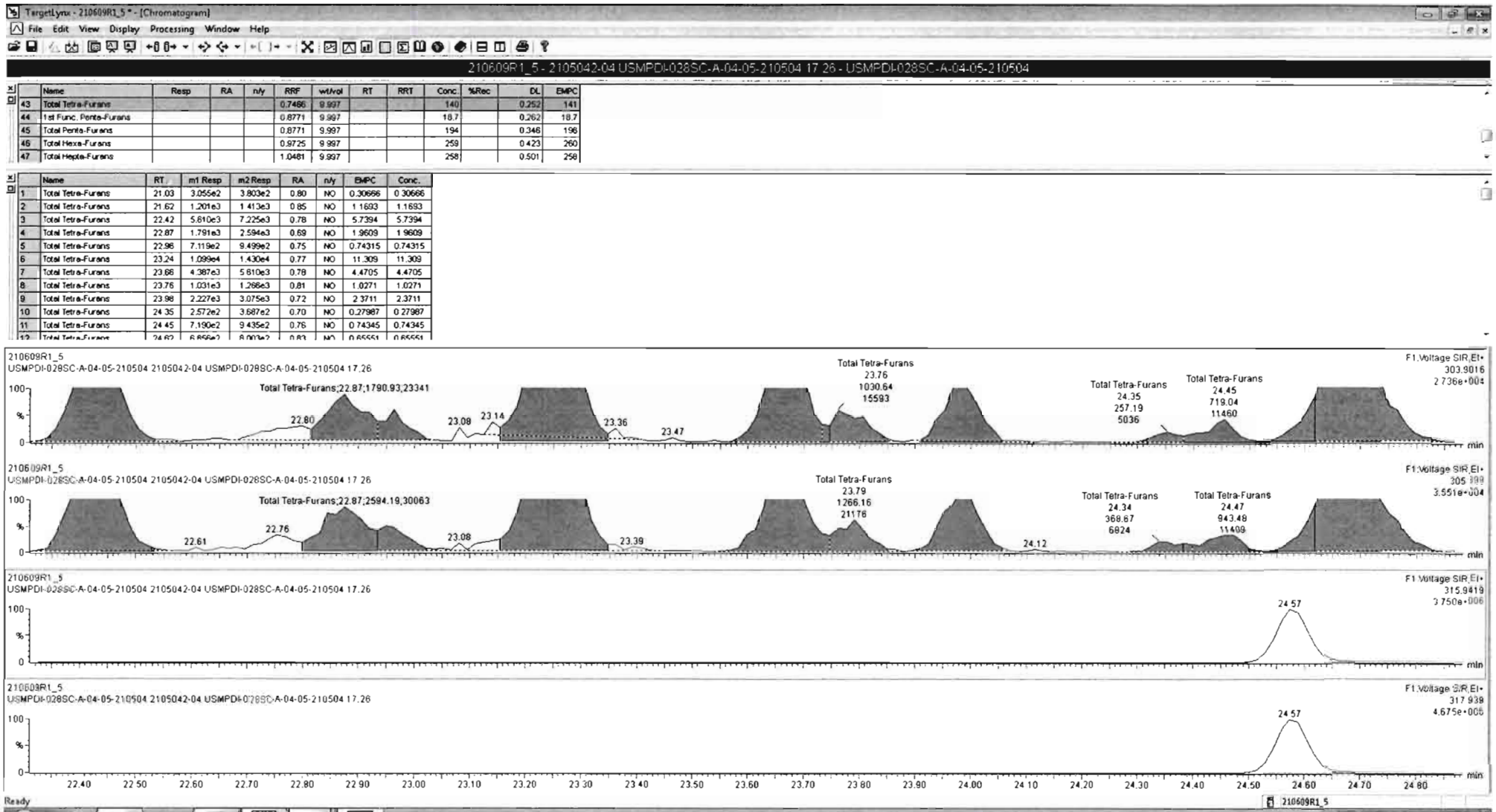
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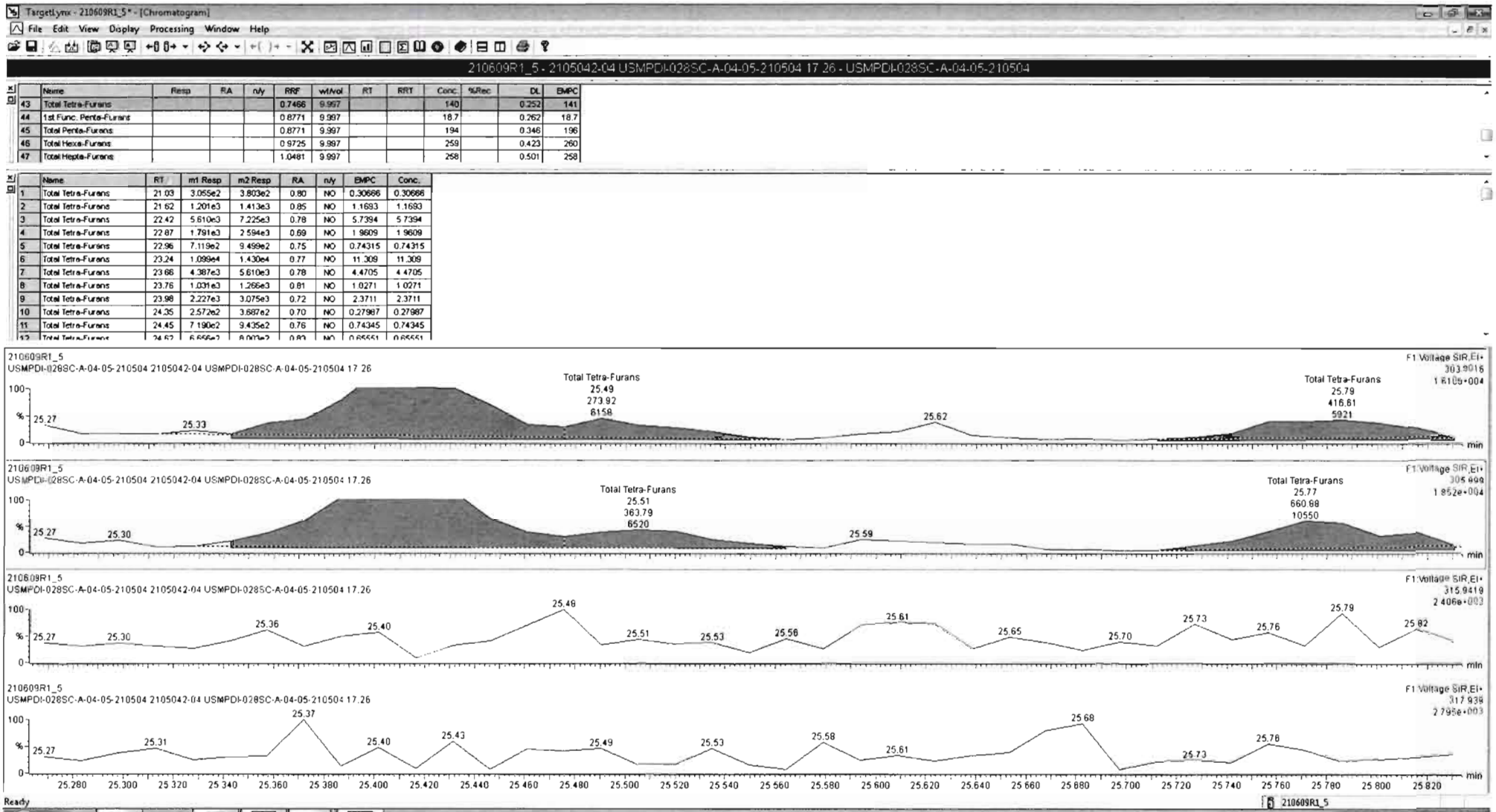


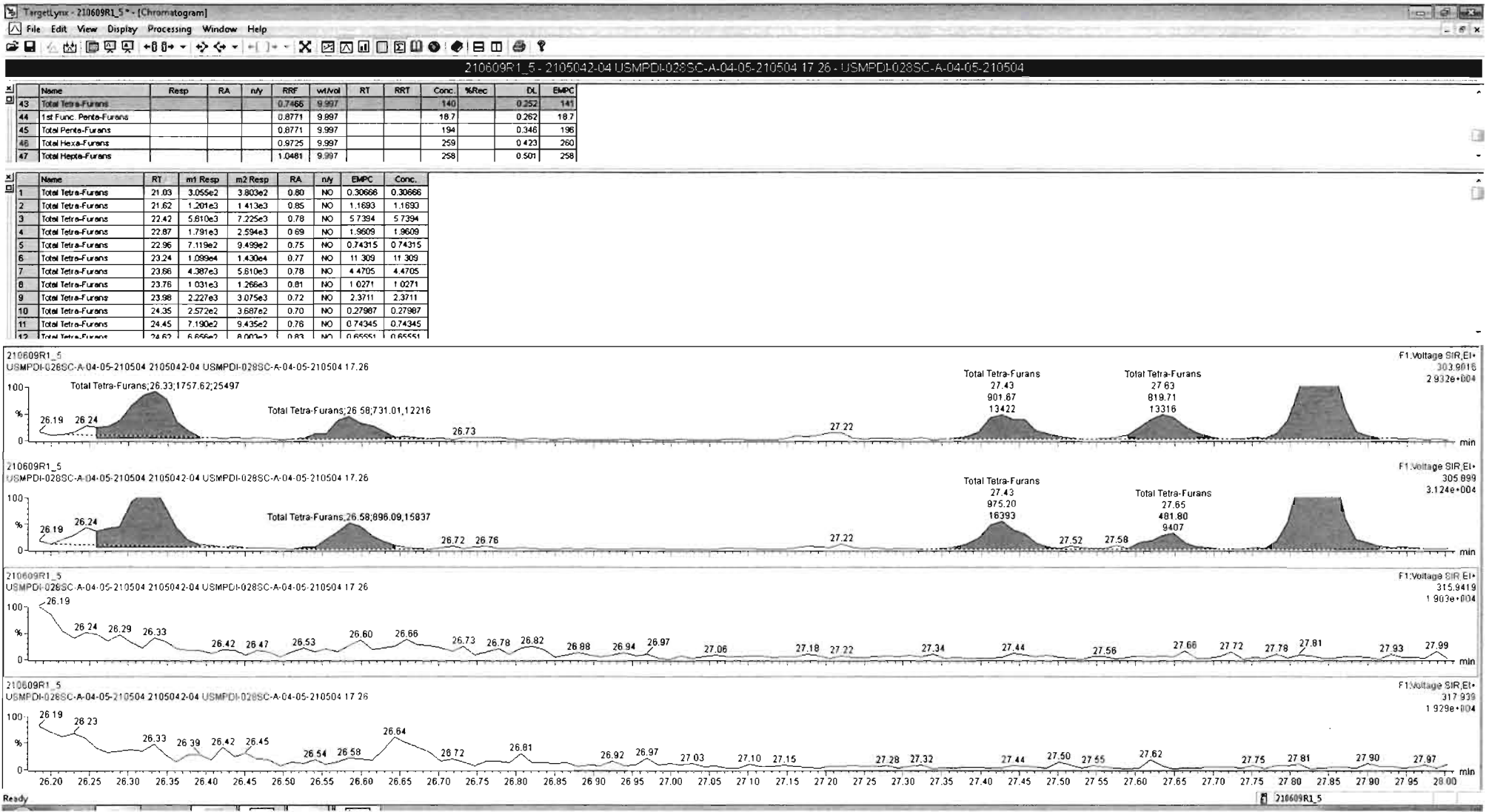
DPE1











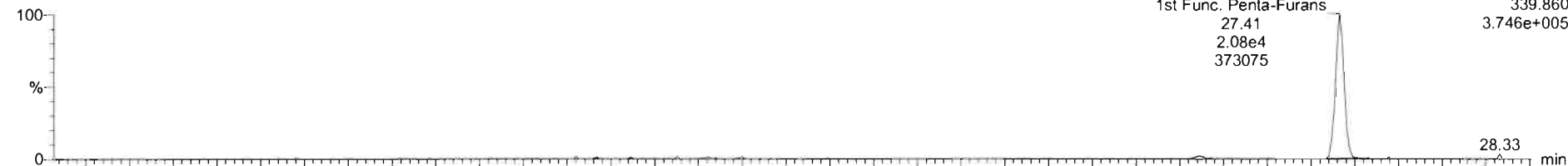
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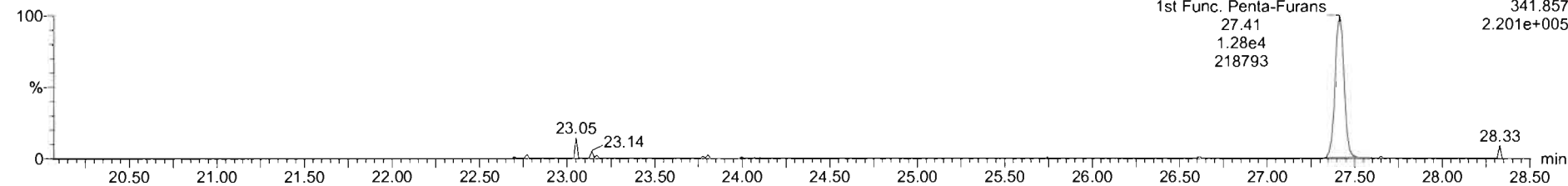
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1st Func. Penta-Furans

210609R1_5

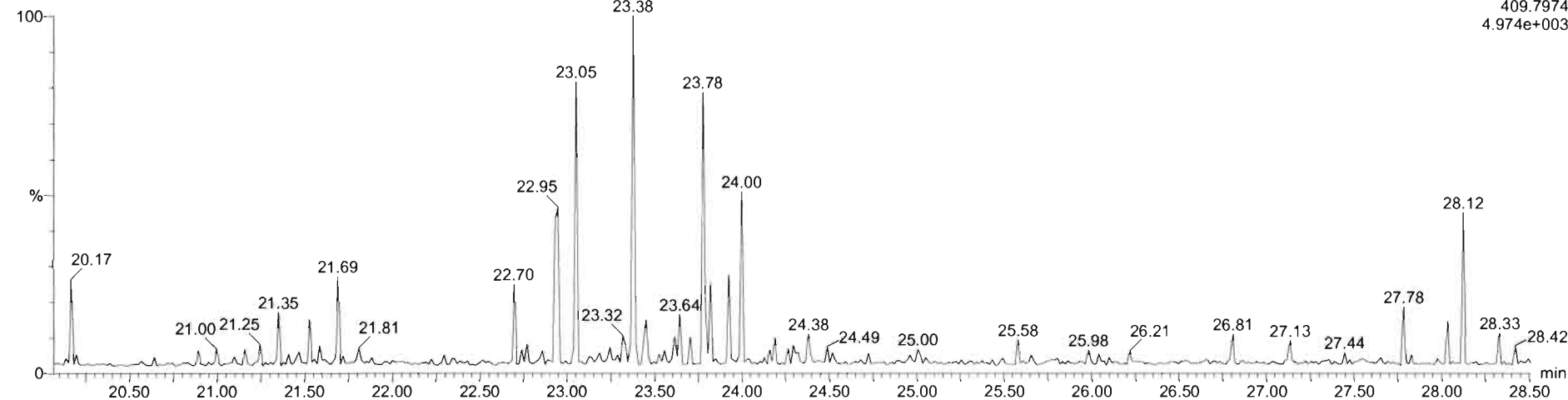


210609R1_5



DPE6

210609R1_5

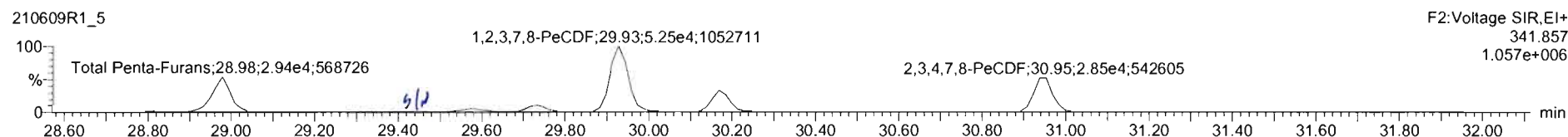
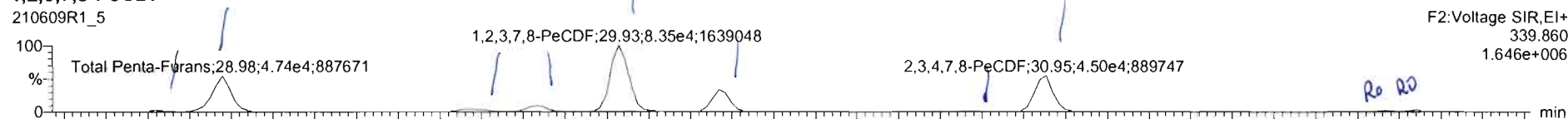


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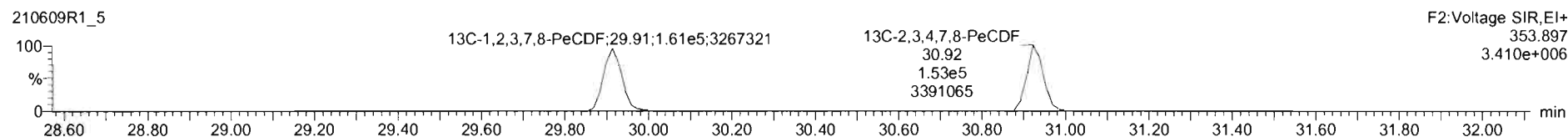
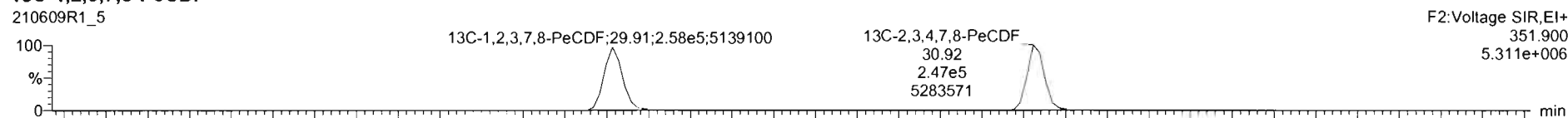
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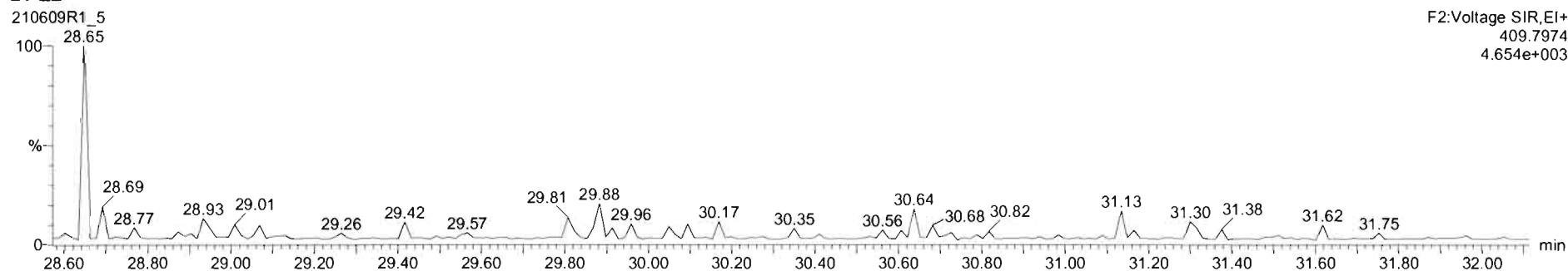
1,2,3,7,8-PeCDF

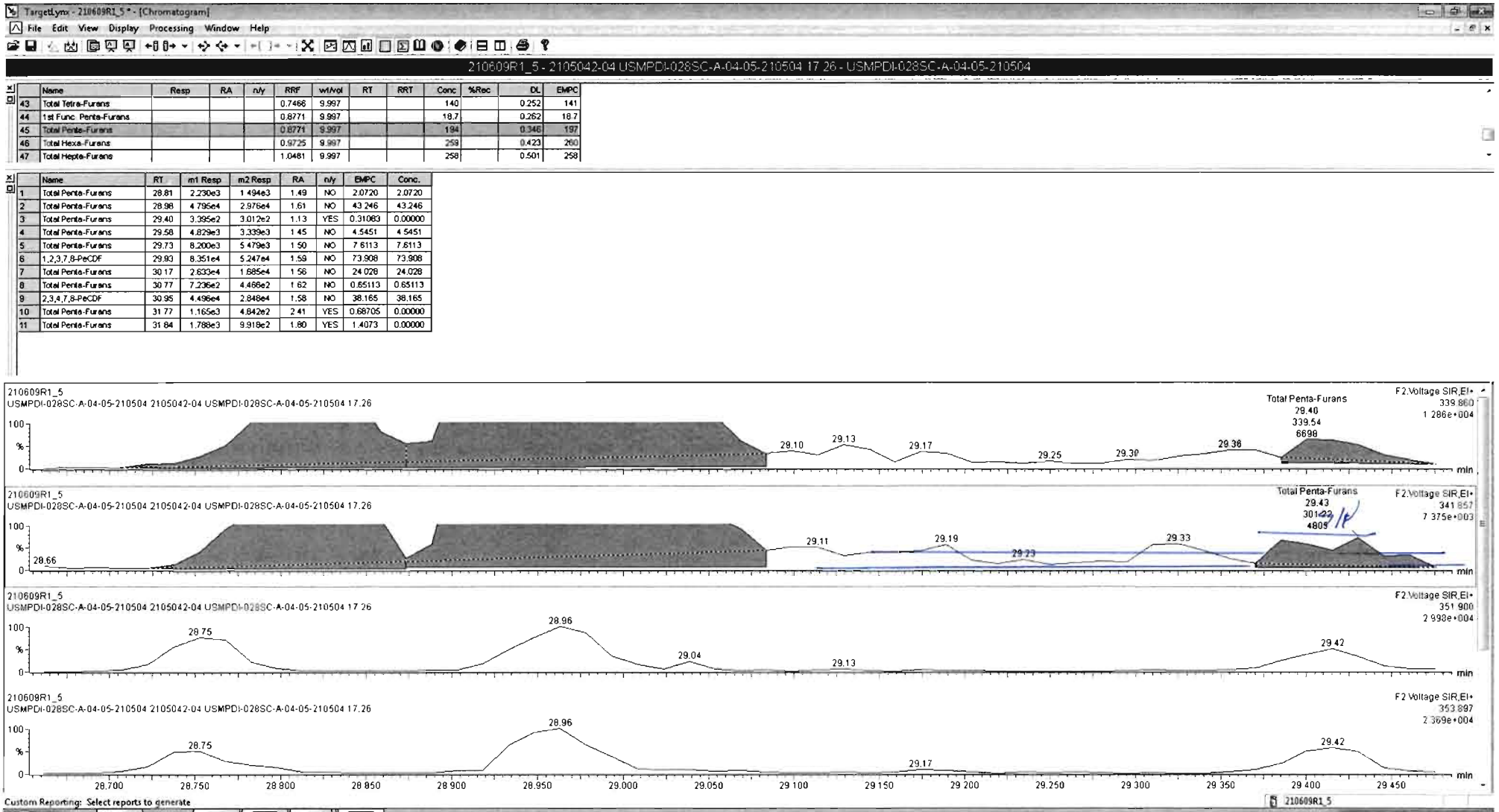


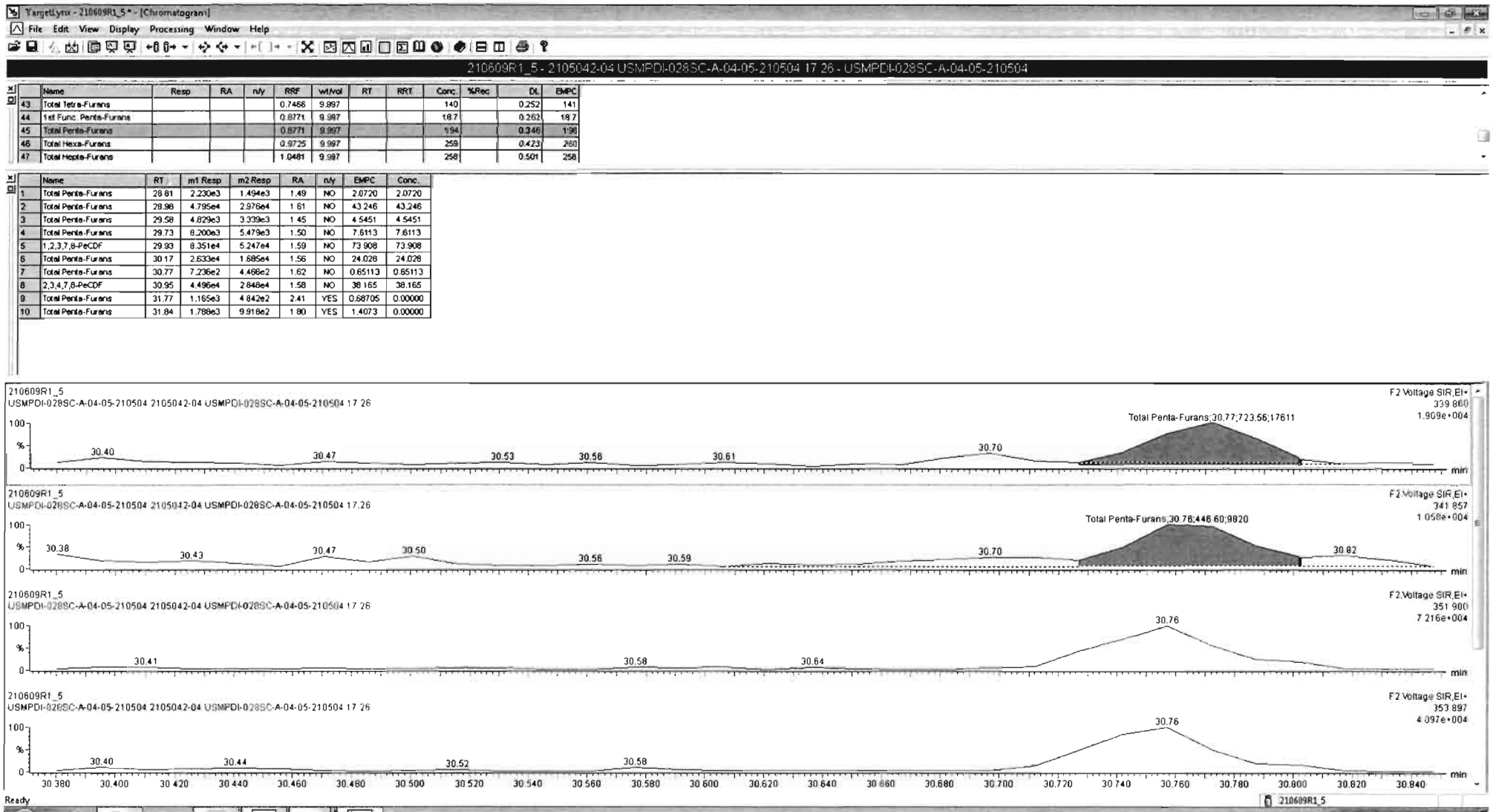
13C-1,2,3,7,8-PeCDF



DPE2

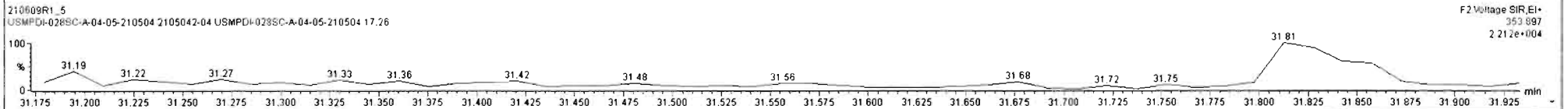
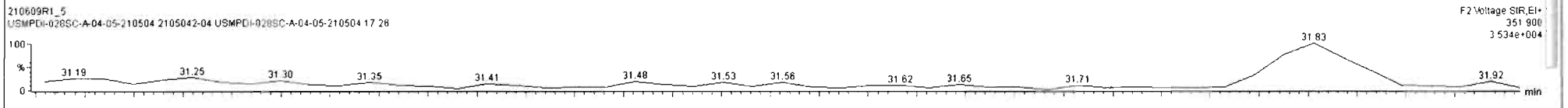
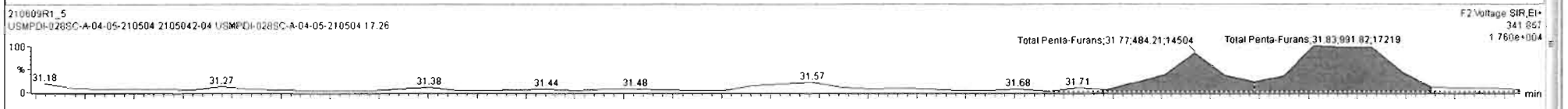
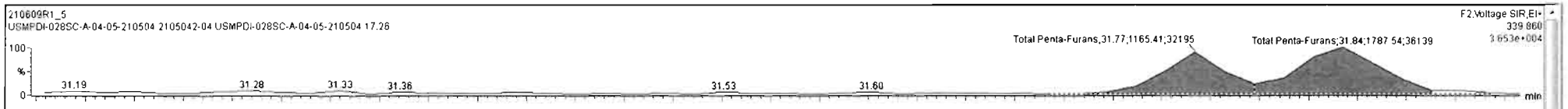






Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	9.997			140		0.252	141
44 1st Func. Penta-Furans				0.8771	9.997			18.7		0.262	18.7
45 Total Penta-Furans				0.8771	9.997			194		0.346	196
46 Total Hexa-Furans				0.9725	9.997			259		0.423	260
47 Total Hepta-Furans				1.0481	9.997			258		0.501	258

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.81	2.230e3	1.494e3	1.49	NO	2.0720	2.0720
2 Total Penta-Furans	28.88	4.795e4	2.976e4	1.61	NO	43.246	43.246
3 Total Penta-Furans	29.58	4.829e3	3.339e3	1.45	NO	4.5451	4.5451
4 Total Penta-Furans	29.73	8.200e3	5.479e3	1.50	NO	7.6113	7.6113
5 1,2,3,7,8-PeCDF	29.93	8.351e4	5.247e4	1.59	NO	73.908	73.908
6 Total Penta-Furans	30.17	2.633e4	1.685e4	1.56	NO	24.028	24.028
7 Total Penta-Furans	30.77	7.236e2	4.468e2	1.62	NO	0.65113	0.65113
8 2,3,4,7,8-PeCDF	30.95	4.496e4	2.848e4	1.58	NO	38.165	38.165
9 Total Penta-Furans	31.77	1.165e3	4.842e2	2.41	YES	0.68705	0.00000
10 Total Penta-Furans	31.84	1.788e3	9.918e2	1.80	YES	1.4073	0.00000

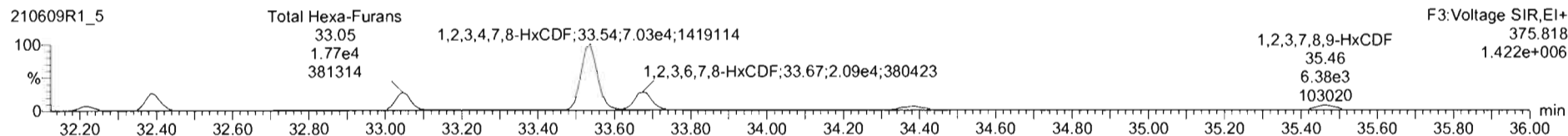
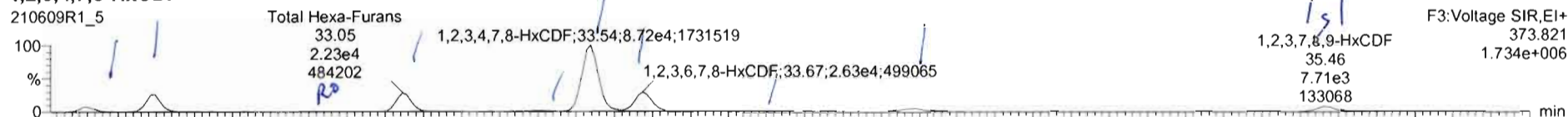


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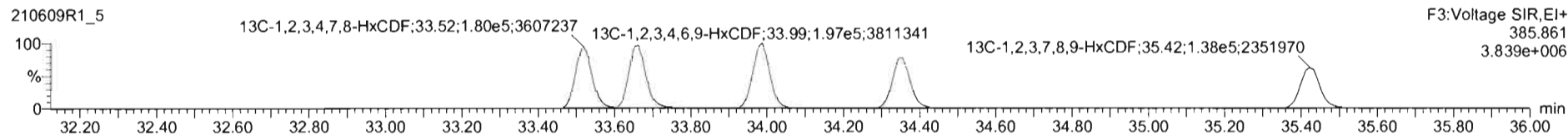
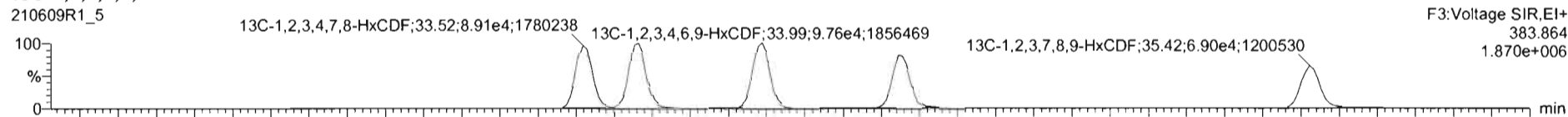
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Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

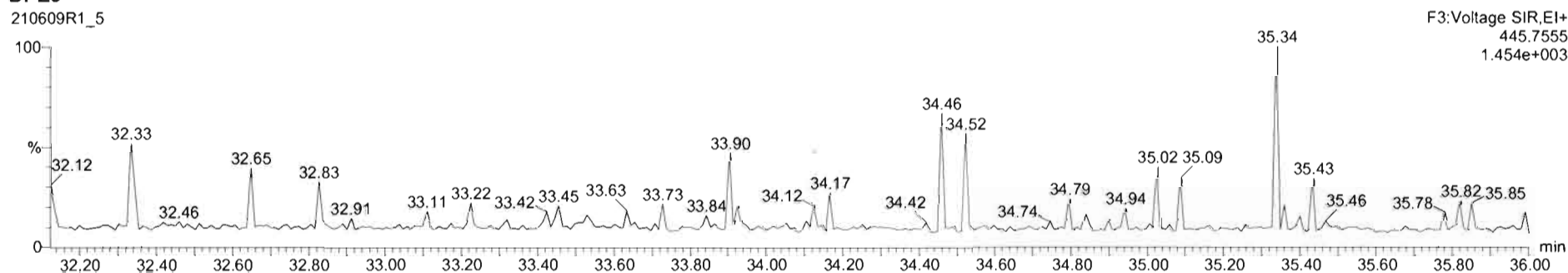
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13C-1,2,3,4,7,8-HxCDF



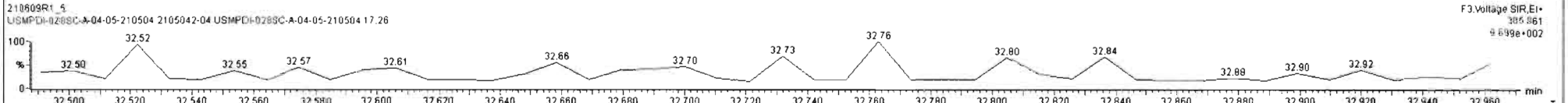
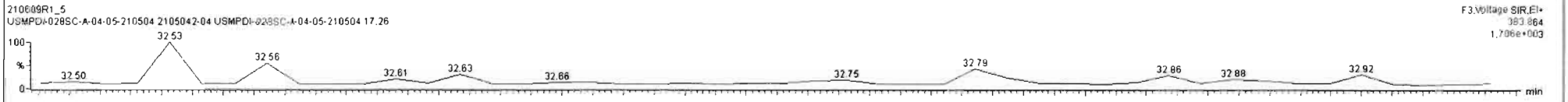
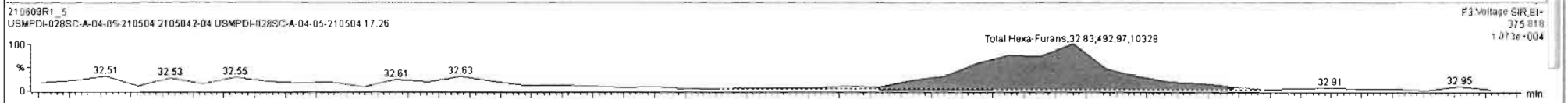
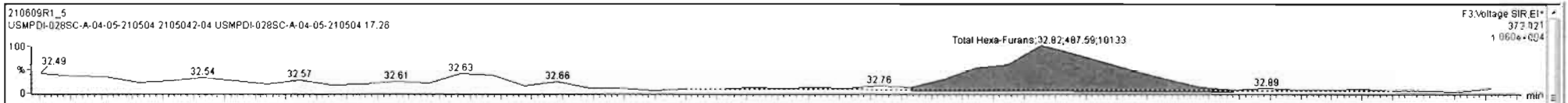
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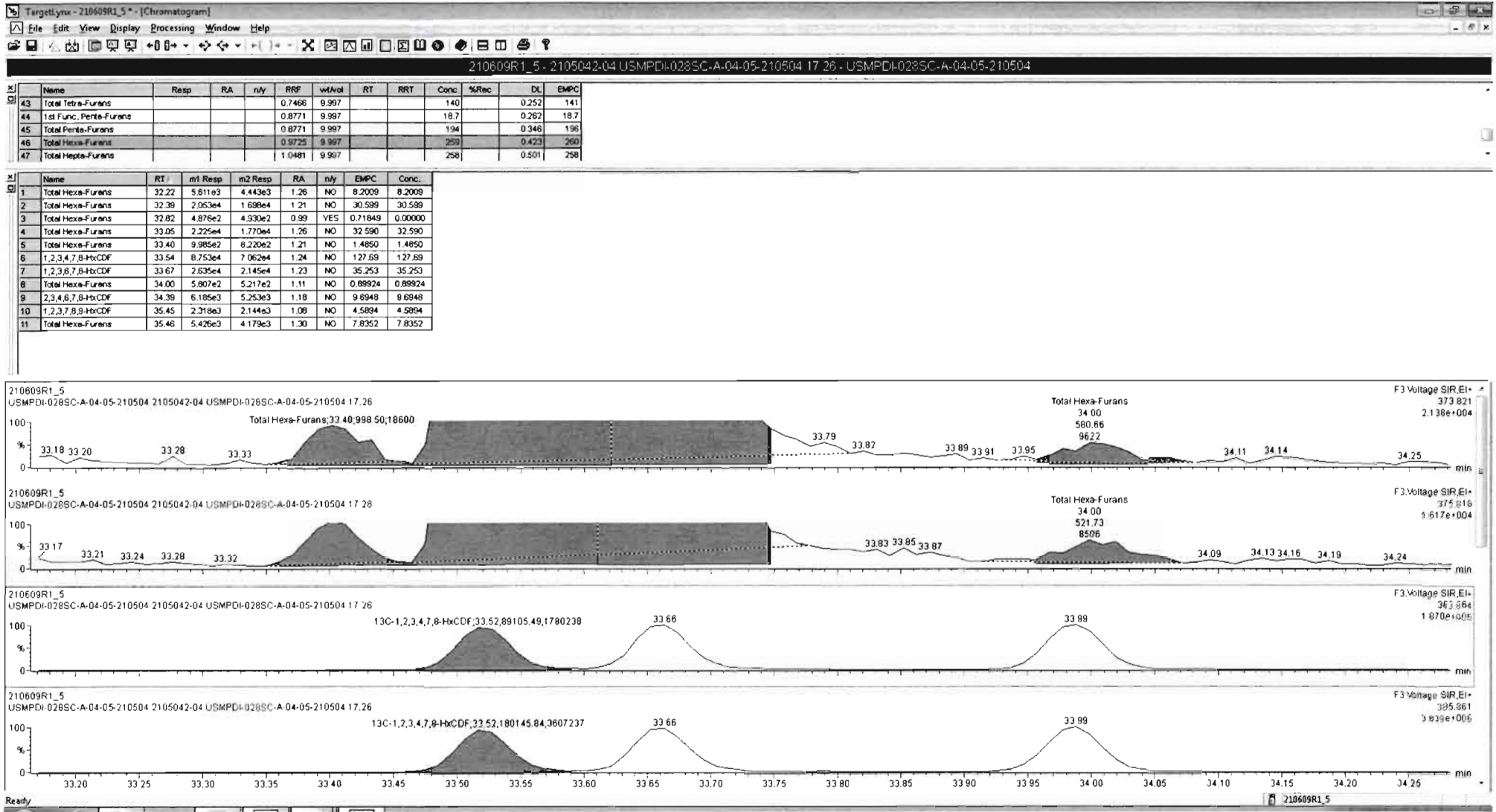


210609R1_5 - 2105042-04 USMPDI-028SC-A-04-05-210504 17.26 - USMPDI-028SC-A-04-05-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	9.997			140	0.252	141	
44	1st Func. Penta-Furans				0.8771	9.997			18.7	0.262	18.7	
45	Total Penta-Furans				0.8771	9.997			194	0.346	196	
46	Total Hexa-Furans				0.9725	9.997			259	0.423	260	
47	Total Hepta-Furans				1.0481	9.997			258	0.501	258	

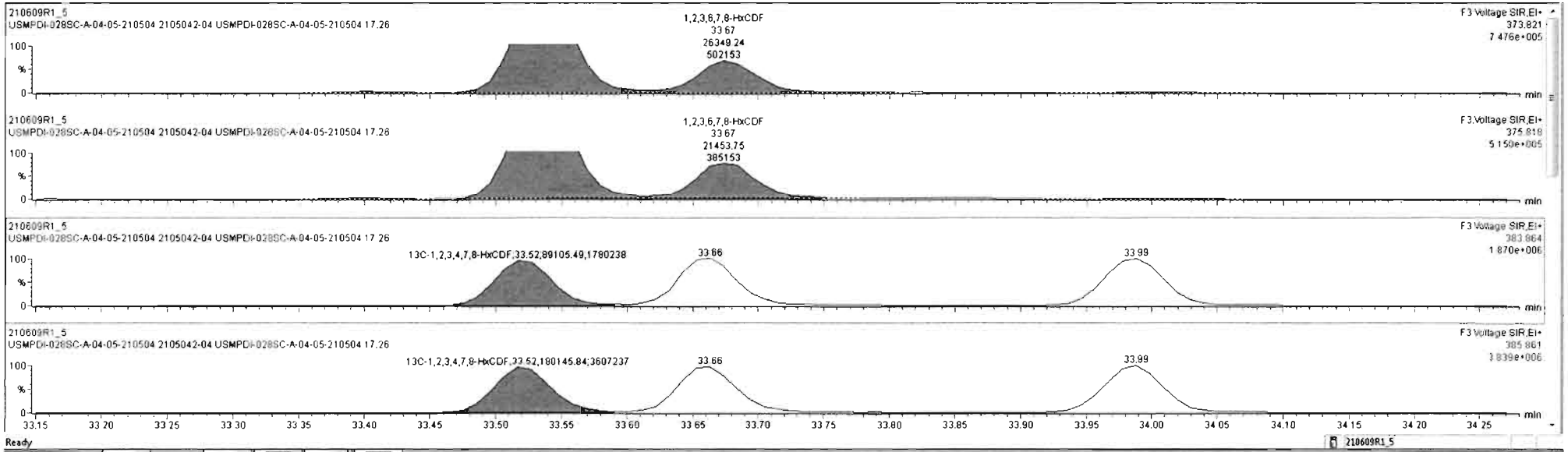
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.22	5.611e3	4.443e3	1.26	NO	8.2009	8.2009
2	Total Hexa-Furans	32.39	2.053e4	1.698e4	1.21	NO	30.589	30.589
3	Total Hexa-Furans	32.82	4.876e2	4.930e2	0.99	YES	0.71849	0.00000
4	Total Hexa-Furans	33.05	2.225e4	1.770e4	1.26	NO	32.590	32.590
5	Total Hexa-Furans	33.40	9.985e2	8.220e2	1.21	NO	1.4850	1.4850
6	1,2,3,4,7,8-HxCDF	33.54	8.753e4	7.062e4	1.24	NO	127.69	127.69
7	1,2,3,6,7,8-HxCDF	33.67	2.635e4	2.145e4	1.23	NO	35.253	35.253
8	Total Hexa-Furans	34.00	5.907e2	5.217e2	1.11	NO	0.89924	0.89924
9	2,3,4,6,7,8-HxCDF	34.39	6.185e3	5.253e3	1.18	NO	9.6949	9.6949
10	1,2,3,7,8,9-HxCDF	35.45	2.318e3	2.144e3	1.08	NO	4.5894	4.5894
11	Total Hexa-Furans	35.46	5.426e3	4.179e3	1.30	NO	7.8352	7.8352

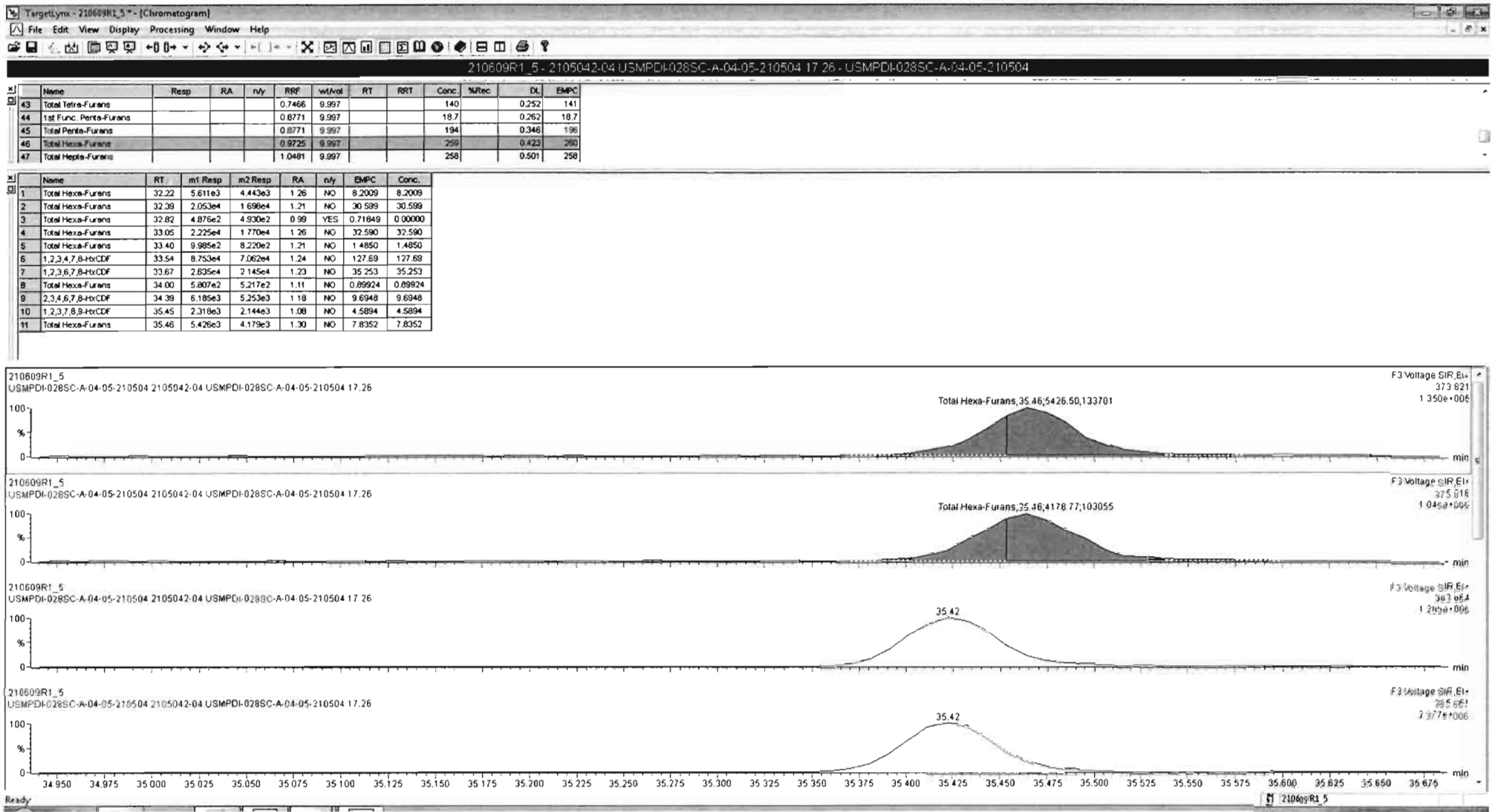




Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	9.997	140		140	0.252	141	
44 1st Func. Penta-Furans				0.8771	9.997			18.7	0.262	18.7	
45 Total Penta-Furans				0.8771	9.997			194	0.348	198	
46 Total Hexa-Furans				0.8725	9.997			258	0.423	260	
47 Total Hepta-Furans				1.0481	9.997			258	0.501	258	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	5.611e3	4.443e3	1.26	NO	8.2009	8.2009
2 Total Hexa-Furans	32.39	2.053e4	1.698e4	1.21	NO	30.599	30.599
3 Total Hexa-Furans	32.82	4.875e2	4.930e2	0.99	YES	0.71949	0.00000
4 Total Hexa-Furans	33.05	2.225e4	1.770e4	1.28	NO	32.590	32.590
5 Total Hexa-Furans	33.40	9.985e2	8.220e2	1.21	NO	1.4850	1.4850
6 1,2,3,4,7,8-HxCDF	33.54	8.753e4	7.062e4	1.24	NO	127.69	127.69
7 1,2,3,6,7,8-HxCDF	33.67	2.835e4	2.145e4	1.23	NO	35.253	35.253
8 Total Hexa-Furans	34.00	5.907e2	5.217e2	1.11	NO	0.88924	0.88924
9 2,3,4,6,7,8-HxCDF	34.39	6.185e3	5.253e3	1.18	NO	9.6946	9.6946
10 1,2,3,7,8-HxCDF	35.45	2.318e3	2.144e3	1.06	NO	4.5894	4.5894
11 Total Hexa-Furans	35.48	5.426e3	4.179e3	1.30	NO	7.8352	7.8352



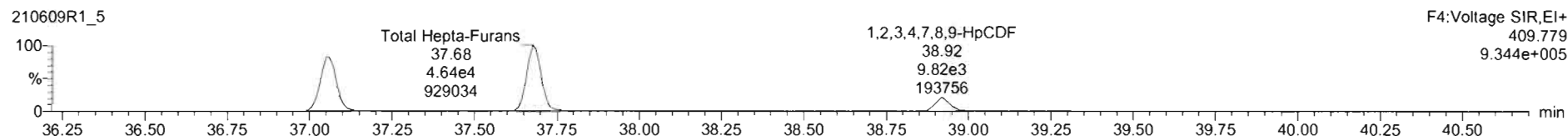
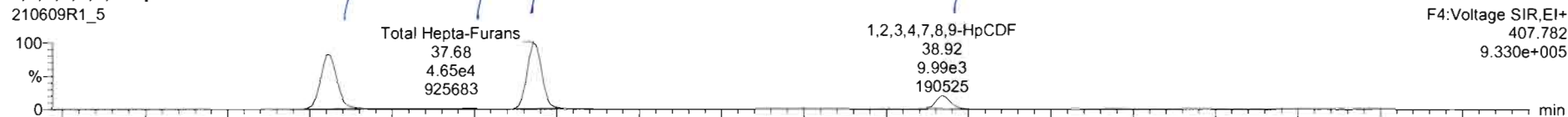


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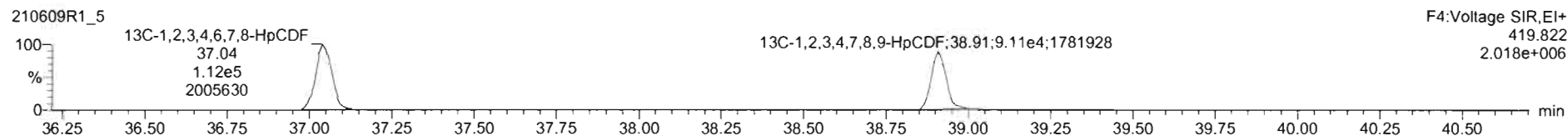
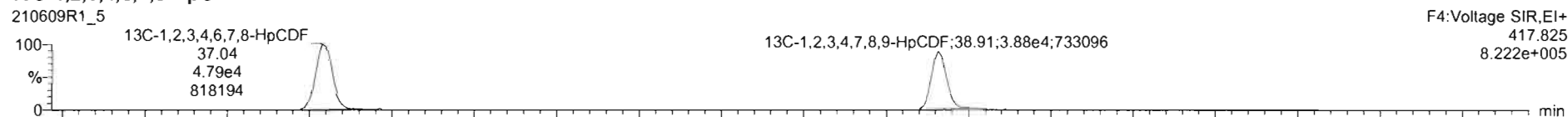
Last Altered: Tuesday, June 15, 2021 13:41:45 Pacific Daylight Time
Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

Name: 210609R1_5, Date: 09-Jun-2021, Time: 13:51:50, ID: 2105042-04 USMPDI-028SC-A-04-05-210504 17.26, Description: USMPDI-028SC-A-04-05-210504

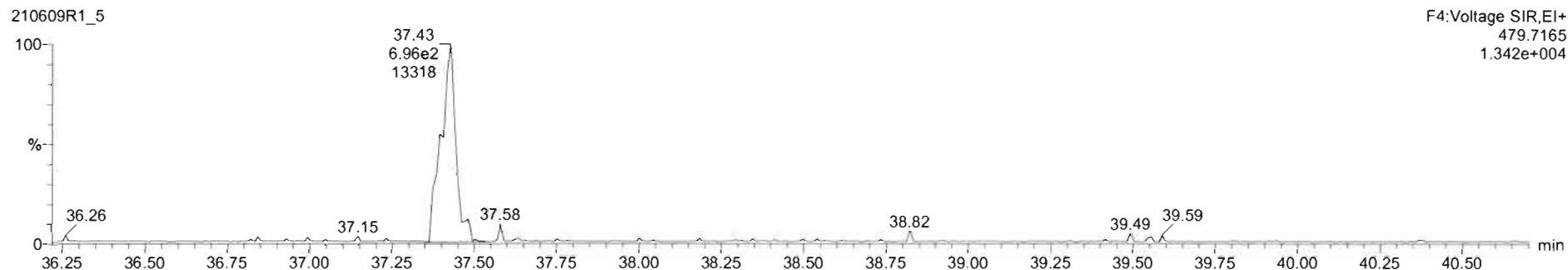
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



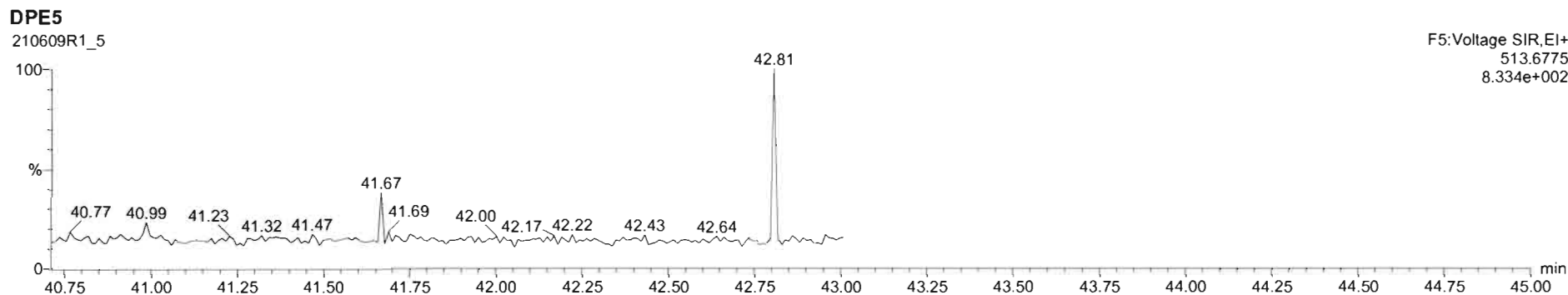
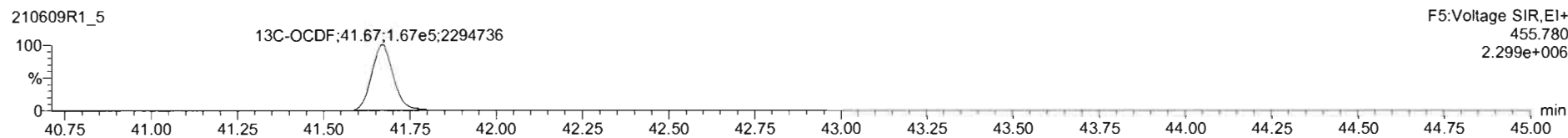
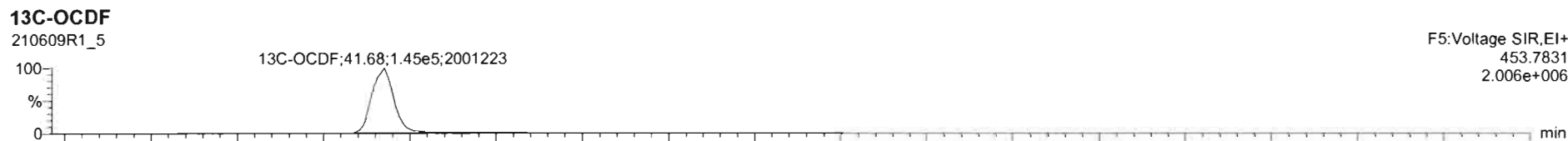
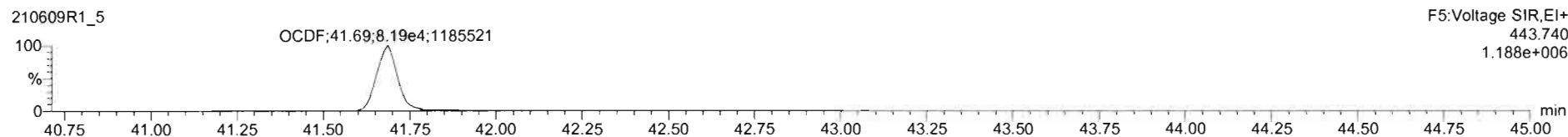
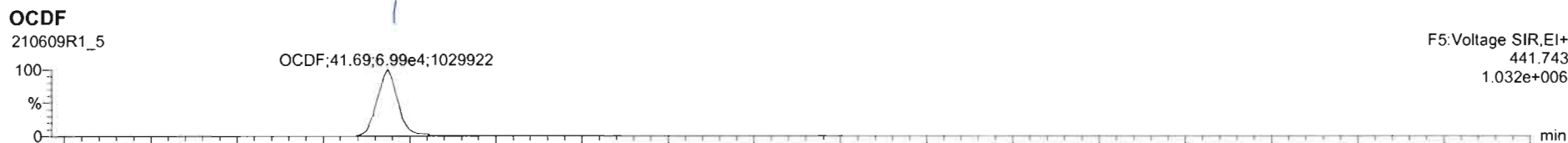
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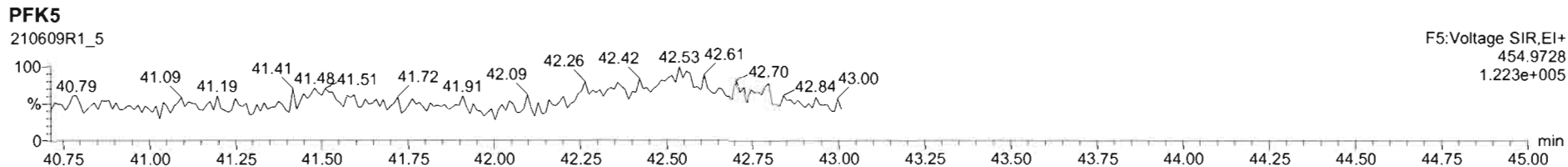
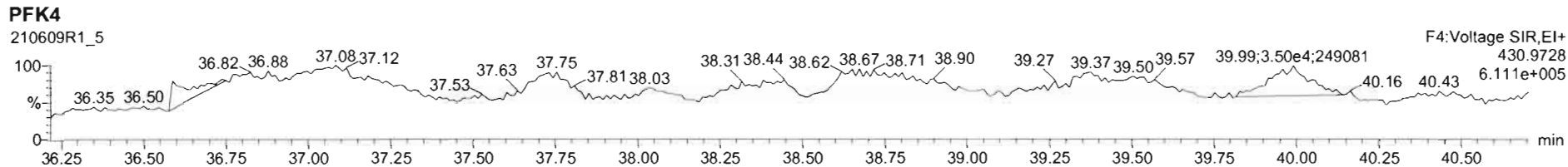
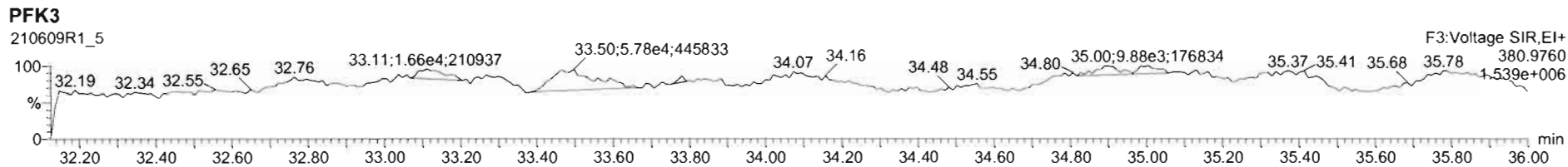
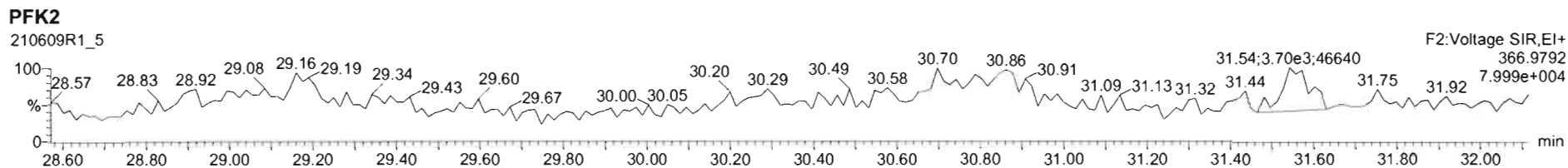
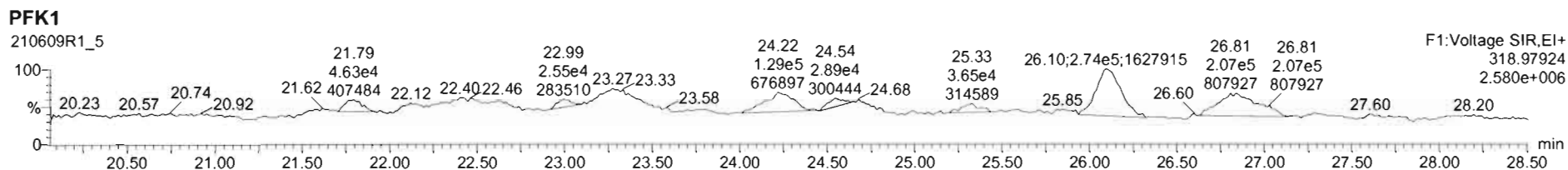
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Last Altered: Tuesday, June 15, 2021 13:41:45 Pacific Daylight Time
Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

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Dataset: U:\VG12.PRO\Results\210604R2\210604R2_6.qld

Last Altered: Monday, June 14, 2021 17:24:48 Pacific Daylight Time
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Uy 06-14-2021

C106/23/2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R2_6, Date: 04-Jun-2021, Time: 14:16:55, ID: 2105042-05 USMPDI-1028SC-A-02-03-210504 17.87, Description: USMPDI-1028SC-A-02-03-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.27e3	0.37	YES	0.929	10.004	26.713	26.71	1.001	1.001	0.48523		0.0267	0.304
2	2 1,2,3,7,8-PeCDD	2.18e3	0.59	NO	0.826	10.004	31.136	31.12	1.001	1.000	0.76221		0.385	0.762
3	3 1,2,3,4,7,8-HxCDD	2.16e3	1.41	NO	0.972	10.004	34.477	34.48	1.001	1.001	0.88491		0.157	0.885
4	4 1,2,3,6,7,8-HxCDD	1.55e4	1.31	NO	0.877	10.004	34.613	34.60	1.001	1.000	6.3452		0.156	6.35
5	5 1,2,3,7,8,9-HxCDD	6.25e3	1.16	NO	0.874	10.004	34.895	34.91	1.000	1.001	2.5079		0.154	2.51
6	6 1,2,3,4,6,7,8-HpCDD	2.31e5	1.04	NO	0.899	10.004	38.311	38.31	1.000	1.000	123.59		0.624	124
7	7 OCDD	2.07e6	0.88	NO	0.852	10.004	41.503	41.52	1.000	1.001	1390.4		2.00	1390
8	8 2,3,7,8-TCDF	2.32e4	0.71	NO	0.747	10.004	26.063	26.08	1.000	1.001	4.4690		0.0596	4.47
9	9 1,2,3,7,8-PeCDF	2.97e4	1.63	NO	0.877	10.004	29.917	29.91	1.000	1.000	7.2294		0.174	7.23
10	10 2,3,4,7,8-PeCDF	1.84e4	1.54	NO	0.962	10.004	30.946	30.94	1.001	1.000	3.9240		0.141	3.92
11	11 1,2,3,4,7,8-HxCDF	4.59e4	1.25	NO	0.920	10.004	33.523	33.53	1.000	1.001	14.259		0.108	14.3
12	12 1,2,3,6,7,8-HxCDF	1.21e4	1.20	NO	0.936	10.004	33.680	33.67	1.001	1.000	4.3586		0.121	4.36
13	13 2,3,4,6,7,8-HxCDF	5.09e3	1.19	NO	0.973	10.004	34.372	34.40	1.001	1.002	1.6453		0.132	1.65
14	14 1,2,3,7,8,9-HxCDF	1.54e3	1.18	NO	0.940	10.004	35.451	35.47	1.000	1.001	0.58290		0.170	0.583
15	15 1,2,3,4,6,7,8-HpCDF	4.97e4	0.99	NO	1.05	10.004	37.109	37.09	1.000	1.000	21.502		0.153	21.5
16	16 1,2,3,4,7,8,9-HpCDF	7.56e3	1.02	NO	1.05	10.004	38.982	38.99	1.000	1.001	3.7330		0.173	3.73
17	17 OCDF	9.08e4	0.89	NO	0.771	10.004	41.838	41.85	1.000	1.001	60.637		0.422	60.6
18	18 13C-2,3,7,8-TCDD	1.00e6	0.79	NO	1.10	10.004	26.671	26.68	1.027	1.027	202.74	101	0.110	
19	19 13C-1,2,3,7,8-PeCDD	6.94e5	0.64	NO	0.864	10.004	31.052	31.11	1.196	1.198	179.01	89.5	1.23	
20	20 13C-1,2,3,4,7,8-HxCDD	5.01e5	1.29	NO	0.746	10.004	34.454	34.46	1.014	1.014	173.06	86.6	0.370	
21	21 13C-1,2,3,6,7,8-HxCDD	5.57e5	1.28	NO	0.847	10.004	34.573	34.59	1.017	1.018	169.54	84.8	0.326	
22	22 13C-1,2,3,7,8,9-HxCDD	5.70e5	1.24	NO	0.868	10.004	34.872	34.88	1.026	1.026	169.34	84.7	0.318	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.16e5	1.05	NO	0.664	10.004	38.220	38.30	1.125	1.127	161.54	80.8	0.363	
24	24 13C-OCDD	6.98e5	0.90	NO	0.561	10.004	41.166	41.49	1.211	1.221	320.75	80.2	0.542	
25	25 13C-2,3,7,8-TCDF	1.39e6	0.78	NO	1.09	10.004	26.060	26.06	1.003	1.003	184.39	92.2	0.105	
26	26 13C-1,2,3,7,8-PeCDF	9.37e5	1.53	NO	0.809	10.004	29.782	29.91	1.147	1.152	168.02	84.0	3.00	
27	27 13C-2,3,4,7,8-PeCDF	9.73e5	1.60	NO	0.803	10.004	30.743	30.92	1.184	1.191	176.00	88.0	3.02	
28	28 13C-1,2,3,4,7,8-HxCDF	6.99e5	0.50	NO	1.01	10.004	33.526	33.51	0.987	0.986	178.21	89.1	0.382	
29	29 13C-1,2,3,6,7,8-HxCDF	5.91e5	0.53	NO	1.07	10.004	33.655	33.66	0.990	0.990	141.95	71.0	0.360	
30	30 13C-2,3,4,6,7,8-HxCDF	6.36e5	0.48	NO	0.910	10.004	34.345	34.35	1.011	1.011	180.12	90.1	0.425	
31	31 13C-1,2,3,7,8,9-HxCDF	5.61e5	0.49	NO	0.828	10.004	35.423	35.44	1.042	1.043	174.61	87.3	0.466	

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_6.qld

Last Altered: Monday, June 14, 2021 17:24:48 Pacific Daylight Time
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Name: 210604R2_6, Date: 04-Jun-2021, Time: 14:16:55, ID: 2105042-05 USMPDI-1028SC-A-02-03-210504 17.87, Description: USMPDI-1028SC-A-02-03-210504

	# Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.41e5	0.43	NO	0.661	10.004	37.030	37.09	1.090	1.091	172.10	86.1	0.445	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.87e5	0.43	NO	0.566	10.004	38.790	38.97	1.141	1.147	176.43	88.3	0.520	
34	34 13C-OCDF	7.77e5	0.89	NO	0.663	10.004	41.553	41.83	1.223	1.231	302.14	75.6	0.506	
35	35 37Cl-2,3,7,8-TCDD	9.46e5			2.07	10.004	26.871	26.70	1.035	1.028	101.89	127	0.0331	
36	36 13C-1,2,3,4-TCDD	8.97e5	0.78	NO	1.00	10.004	26.070	25.97	1.000	1.000	199.92	100	0.122	
37	37 13C-1,2,3,4-TCDF	1.38e6	0.79	NO	1.00	10.004	24.760	24.64	1.000	1.000	199.92	100	0.115	
38	38 13C-1,2,3,4,6,9-HxCDF	7.76e5	0.50	NO	1.00	10.004	34.040	33.99	1.000	1.000	199.92	100	0.386	
39	39 Total Tetra-Dioxins				0.929	10.004	24.620		0.000		1.3948		0.0267	2.83
40	40 Total Penta-Dioxins				0.826	10.004	29.960		0.000		1.9925		0.385	5.40
41	41 Total Hexa-Dioxins				0.877	10.004	33.635		0.000		32.204		0.160	32.2
42	42 Total Hepta-Dioxins				0.899	10.004	37.640		0.000		261.03		0.624	261
43	43 Total Tetra-Furans				0.747	10.004	23.610		0.000		18.220		0.0596	18.3
44	44 1st Func. Penta-Furans				0.877	10.004	27.620		0.000		9.7603		0.0215	9.76
45	45 Total Penta-Furans				0.877	10.004	29.275		0.000		21.752		0.164	22.2
46	46 Total Hexa-Furans				0.973	10.004	33.555		0.000		48.550		0.127	48.8
47	47 Total Hepta-Furans				1.05	10.004	37.835		0.000		59.151		0.162	59.5

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Last Altered: Monday, June 14, 2021 17:24:48 Pacific Daylight Time

Printed: Monday, June 14, 2021 17:27:46 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R2_6, Date: 04-Jun-2021, Time: 14:16:55, ID: 2105042-05 USMPDI-1028SC-A-02-03-210504 17.87, Description: USMPDI-1028SC-A-02-03-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	1.982e4	2.332e4	1.560e3	1.975e3	0.79	NO	3.535e3	0.75721	0.75721	0.0267
2	Total Tetra-Dioxins	23.58	1.180e4	1.357e4	7.519e2	8.521e2	0.88	NO	1.604e3	0.34357	0.34357	0.0267
3	Total Tetra-Dioxins	24.03	1.019e4	8.923e3	6.822e2	6.795e2	1.00	YES	0.000e0	0.00000	0.25761	0.0267
4	Total Tetra-Dioxins	24.79	4.019e3	6.080e3	2.702e2	3.103e2	0.87	NO	5.805e2	0.12435	0.12435	0.0267
5	Total Tetra-Dioxins	24.97	3.830e3	4.770e3	2.829e2	3.329e2	0.85	NO	6.158e2	0.13190	0.13190	0.0267
6	Total Tetra-Dioxins	25.19	8.088e3	1.223e4	4.687e2	7.170e2	0.65	YES	0.000e0	0.00000	0.23078	0.0267
7	Total Tetra-Dioxins	25.37	2.526e3	3.960e3	1.286e2	2.000e2	0.64	YES	0.000e0	0.00000	0.063327	0.0267
8	Total Tetra-Dioxins	25.65	3.435e3	6.750e3	1.993e2	3.148e2	0.63	YES	0.000e0	0.00000	0.098140	0.0267
9	Total Tetra-Dioxins	25.72	2.626e3	4.546e3	1.597e2	2.576e2	0.62	YES	0.000e0	0.00000	0.078645	0.0267
10	Total Tetra-Dioxins	26.43	1.046e4	1.404e4	7.420e2	8.347e2	0.89	YES	0.000e0	0.00000	0.31648	0.0267
11	2,3,7,8-TCDD	26.71	1.090e4	2.819e4	6.175e2	1.648e3	0.37	YES	2.265e3	0.00000	0.30404	0.0267
12	Total Tetra-Dioxins	27.02	3.255e3	4.069e3	2.051e2	2.209e2	0.93	YES	0.000e0	0.00000	0.083746	0.0267
13	Total Tetra-Dioxins	27.51	1.944e3	2.569e3	7.768e1	9.870e1	0.79	NO	1.764e2	0.037782	0.037782	0.0267

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.92	3.934e4	6.389e4	1.540e3	2.596e3	0.59	NO	0.000e0	0.00000	1.4436	0.385
2	Total Penta-Dioxins	28.95	3.314e4	4.774e4	1.025e3	1.529e3	0.67	NO	0.000e0	0.00000	0.89137	0.385
3	Total Penta-Dioxins	29.40	8.966e3	1.886e4	4.507e2	8.348e2	0.54	NO	1.285e3	0.44861	0.44861	0.385
4	Total Penta-Dioxins	30.08	1.925e4	2.750e4	1.404e3	1.881e3	0.75	YES	0.000e0	0.00000	1.0699	0.385
5	Total Penta-Dioxins	30.35	1.479e4	2.674e4	8.644e2	1.376e3	0.63	NO	2.240e3	0.78169	0.78169	0.385
6	1,2,3,7,8-PeCDD	31.12	1.430e4	2.508e4	8.083e2	1.376e3	0.59	NO	2.184e3	0.76221	0.76221	0.385

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_6.qld

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Name: 210604R2_6, Date: 04-Jun-2021, Time: 14:16:55, ID: 2105042-05 USMPDI-1028SC-A-02-03-210504 17.87, Description: USMPDI-1028SC-A-02-03-210504

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.75	3.828e5	2.908e5	1.817e4	1.482e4	1.23	NO	3.299e4	13.854	13.854	0.160
2	Total Hexa-Dioxins	33.38	3.479e4	2.748e4	1.785e3	1.495e3	1.19	NO	3.280e3	1.3773	1.3773	0.160
3	Total Hexa-Dioxins	33.69	2.384e5	1.924e5	8.163e3	6.205e3	1.32	NO	1.437e4	6.0333	6.0333	0.160
4	Total Hexa-Dioxins	33.78	2.239e4	1.726e4	9.081e2	7.527e2	1.21	NO	1.661e3	0.69741	0.69741	0.160
5	1,2,3,4,7,8-HxCDD	34.48	2.240e4	1.439e4	1.262e3	8.942e2	1.41	NO	2.156e3	0.88491	0.88491	0.157
6	1,2,3,6,7,8-HxCDD	34.60	1.574e5	1.226e5	8.802e3	6.703e3	1.31	NO	1.550e4	6.3452	6.3452	0.156
7	Total Hexa-Dioxins	34.78	1.092e4	9.524e3	6.611e2	5.394e2	1.23	NO	1.200e3	0.50411	0.50411	0.160
8	1,2,3,7,8,9-HxCDD	34.91	5.608e4	4.561e4	3.365e3	2.889e3	1.16	NO	6.254e3	2.5079	2.5079	0.154

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.42	2.220e6	2.162e6	1.304e5	1.268e5	1.03	NO	2.572e5	137.44	137.44	0.624
2	1,2,3,4,6,7,8-HpCDD	38.31	2.015e6	1.932e6	1.177e5	1.136e5	1.04	NO	2.313e5	123.59	123.59	0.624

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Name: 210604R2_6, Date: 04-Jun-2021, Time: 14:16:55, ID: 2105042-05 USMPDI-1028SC-A-02-03-210504 17.87, Description: USMPDI-1028SC-A-02-03-210504

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.76	1.289e4	1.348e4	1.021e3	1.277e3	0.80	NO	2.298e3	0.44322	0.44322	0.0596
2	Total Tetra-Furans	22.53	4.594e4	5.687e4	3.716e3	4.977e3	0.75	NO	8.693e3	1.6770	1.6770	0.0596
3	Total Tetra-Furans	22.85	8.145e3	9.281e3	4.354e2	5.180e2	0.84	NO	9.534e2	0.18393	0.18393	0.0596
4	Total Tetra-Furans	22.97	1.154e4	2.080e4	1.483e3	2.110e3	0.70	NO	3.593e3	0.69311	0.69311	0.0596
5	Total Tetra-Furans	23.33	4.598e4	5.797e4	3.622e3	4.989e3	0.73	NO	8.611e3	1.6612	1.6612	0.0596
6	Total Tetra-Furans	23.75	2.931e4	3.704e4	2.184e3	2.737e3	0.80	NO	4.921e3	0.94931	0.94931	0.0596
7	Total Tetra-Furans	23.83	1.158e4	1.354e4	8.463e2	1.076e3	0.79	NO	1.922e3	0.37079	0.37079	0.0596
8	Total Tetra-Furans	24.06	1.347e4	2.057e4	1.063e3	1.518e3	0.70	NO	2.581e3	0.49784	0.49784	0.0596
9	Total Tetra-Furans	24.51	1.018e4	1.201e4	6.296e2	7.743e2	0.81	NO	1.404e3	0.27082	0.27082	0.0596
10	Total Tetra-Furans	24.69	8.557e3	1.251e4	3.681e2	4.724e2	0.78	NO	8.405e2	0.16215	0.16215	0.0596
11	Total Tetra-Furans	24.74	2.520e4	3.274e4	2.408e3	3.281e3	0.73	NO	5.689e3	1.0975	1.0975	0.0596
12	Total Tetra-Furans	25.16	1.339e5	1.674e5	8.610e3	1.162e4	0.74	NO	2.023e4	3.9020	3.9020	0.0596
13	Total Tetra-Furans	25.45	7.477e3	1.557e4	5.408e2	8.230e2	0.66	NO	1.364e3	0.26309	0.26309	0.0596
14	Total Tetra-Furans	25.96	2.200e4	2.881e4	1.419e3	1.652e3	0.86	NO	3.071e3	0.59241	0.59241	0.0596
15	2,3,7,8-TCDF	26.08	1.581e5	2.272e5	9.600e3	1.357e4	0.71	NO	2.317e4	4.4690	4.4690	0.0596
16	Total Tetra-Furans	26.31	5.803e3	1.001e4	2.850e2	5.320e2	0.54	YES	0.000e0	0.00000	0.12640	0.0596
17	Total Tetra-Furans	26.36	1.126e4	1.668e4	7.161e2	9.517e2	0.75	NO	1.668e3	0.32172	0.32172	0.0596
18	Total Tetra-Furans	27.43	1.421e4	1.962e4	8.385e2	1.170e3	0.72	NO	2.009e3	0.38753	0.38753	0.0596
19	Total Tetra-Furans	27.85	1.097e4	1.506e4	6.037e2	8.363e2	0.72	NO	1.440e3	0.27779	0.27779	0.0596

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	4.489e5	2.593e5	2.537e4	1.553e4	1.63	NO	4.090e4	9.7603	9.7603	0.0215

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.83	2.525e4	1.243e4	1.614e3	9.421e2	1.71	NO	2.556e3	0.60995	0.60995	0.164
2	Total Penta-Furans	28.97	2.928e5	1.683e5	1.557e4	9.374e3	1.66	NO	2.494e4	5.9525	5.9525	0.164
3	Total Penta-Furans	29.55	5.001e4	3.457e4	3.404e3	2.164e3	1.57	NO	5.568e3	1.3288	1.3288	0.164
4	Total Penta-Furans	29.73	2.473e4	2.518e4	1.236e3	1.005e3	1.23	YES	0.000e0	0.00000	0.48544	0.164
5	1,2,3,7,8-PeCDF	29.91	3.997e5	2.321e5	1.842e4	1.129e4	1.63	NO	2.971e4	7.2294	7.2294	0.174
6	Total Penta-Furans	30.16	1.268e5	7.298e4	6.078e3	3.744e3	1.62	NO	9.822e3	2.3440	2.3440	0.164
7	Total Penta-Furans	30.74	1.081e4	6.885e3	4.800e2	2.921e2	1.64	NO	7.721e2	0.18426	0.18426	0.164
8	2,3,4,7,8-PeCDF	30.94	2.120e5	1.375e5	1.114e4	7.245e3	1.54	NO	1.838e4	3.9240	3.9240	0.141
9	Total Penta-Furans	31.83	1.249e4	7.460e3	4.546e2	2.947e2	1.54	NO	7.493e2	0.17882	0.17882	0.164

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.22	1.082e5	9.867e4	5.366e3	4.624e3	1.16	NO	9.989e3	3.3028	3.3028	0.127
2	Total Hexa-Furans	32.38	3.523e5	2.902e5	1.731e4	1.357e4	1.28	NO	3.088e4	10.211	10.211	0.127
3	Total Hexa-Furans	32.83	8.546e3	6.875e3	4.418e2	3.380e2	1.31	NO	7.799e2	0.25784	0.25784	0.127
4	Total Hexa-Furans	33.05	4.614e5	3.504e5	2.187e4	1.748e4	1.25	NO	3.935e4	13.009	13.009	0.127
5	Total Hexa-Furans	33.40	7.610e3	7.228e3	3.683e2	3.605e2	1.02	YES	0.000e0	0.00000	0.21998	0.127
6	1,2,3,4,7,8-HxCDF	33.53	4.703e5	3.843e5	2.551e4	2.037e4	1.25	NO	4.588e4	14.259	14.259	0.108
7	1,2,3,6,7,8-HxCDF	33.67	1.176e5	1.071e5	6.583e3	5.484e3	1.20	NO	1.207e4	4.3586	4.3586	0.121
8	2,3,4,6,7,8-HxCDF	34.40	3.737e4	3.593e4	2.762e3	2.325e3	1.19	NO	5.087e3	1.6453	1.6453	0.132
9	1,2,3,7,8,9-HxCDF	35.47	2.867e4	2.173e4	8.323e2	7.052e2	1.18	NO	1.537e3	0.58290	0.58290	0.170
10	Total Hexa-Furans	35.48	3.597e4	2.749e4	1.536e3	1.259e3	1.22	NO	2.795e3	0.92413	0.92413	0.127

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.09	4.090e5	4.070e5	2.471e4	2.504e4	0.99	NO	4.974e4	21.502	21.502	0.153
2	Total Hepta-Furans	37.52	6.816e3	9.238e3	4.003e2	4.837e2	0.83	YES	0.000e0	0.00000	0.36154	0.162
3	Total Hepta-Furans	37.72	6.823e5	6.550e5	3.753e4	3.613e4	1.04	NO	7.366e4	33.916	33.916	0.162
4	1,2,3,4,7,8,9-HpCDF	38.99	5.755e4	6.115e4	3.814e3	3.745e3	1.02	NO	7.559e3	3.7330	3.7330	0.173

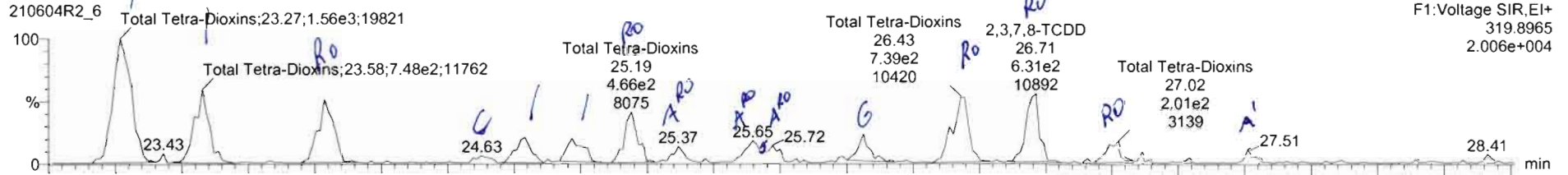
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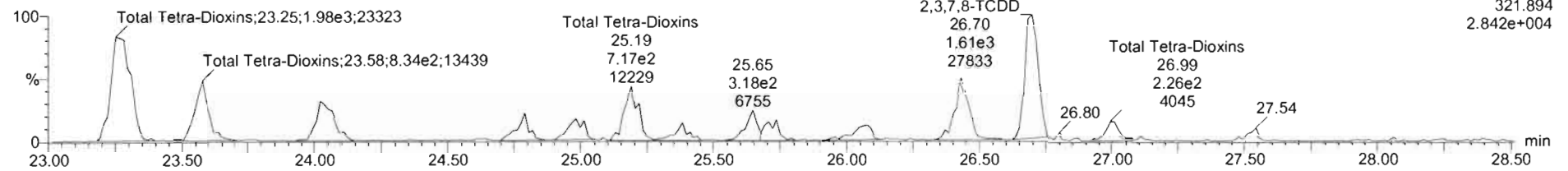
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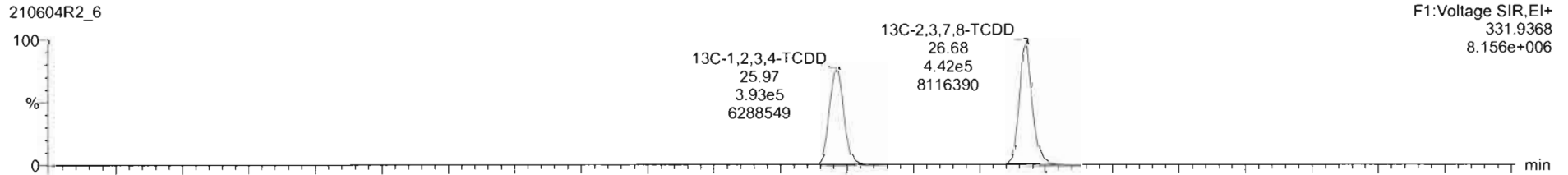
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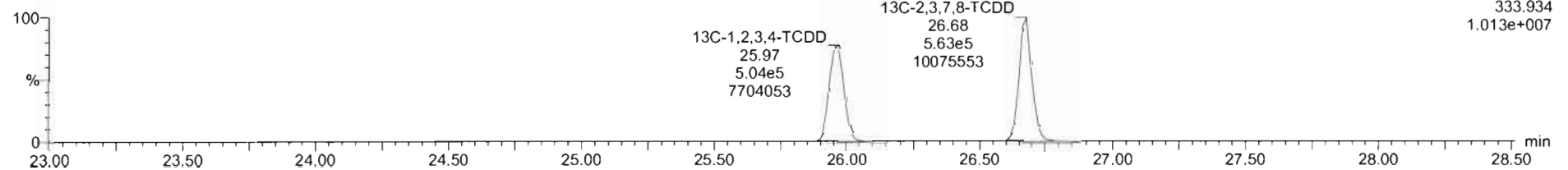
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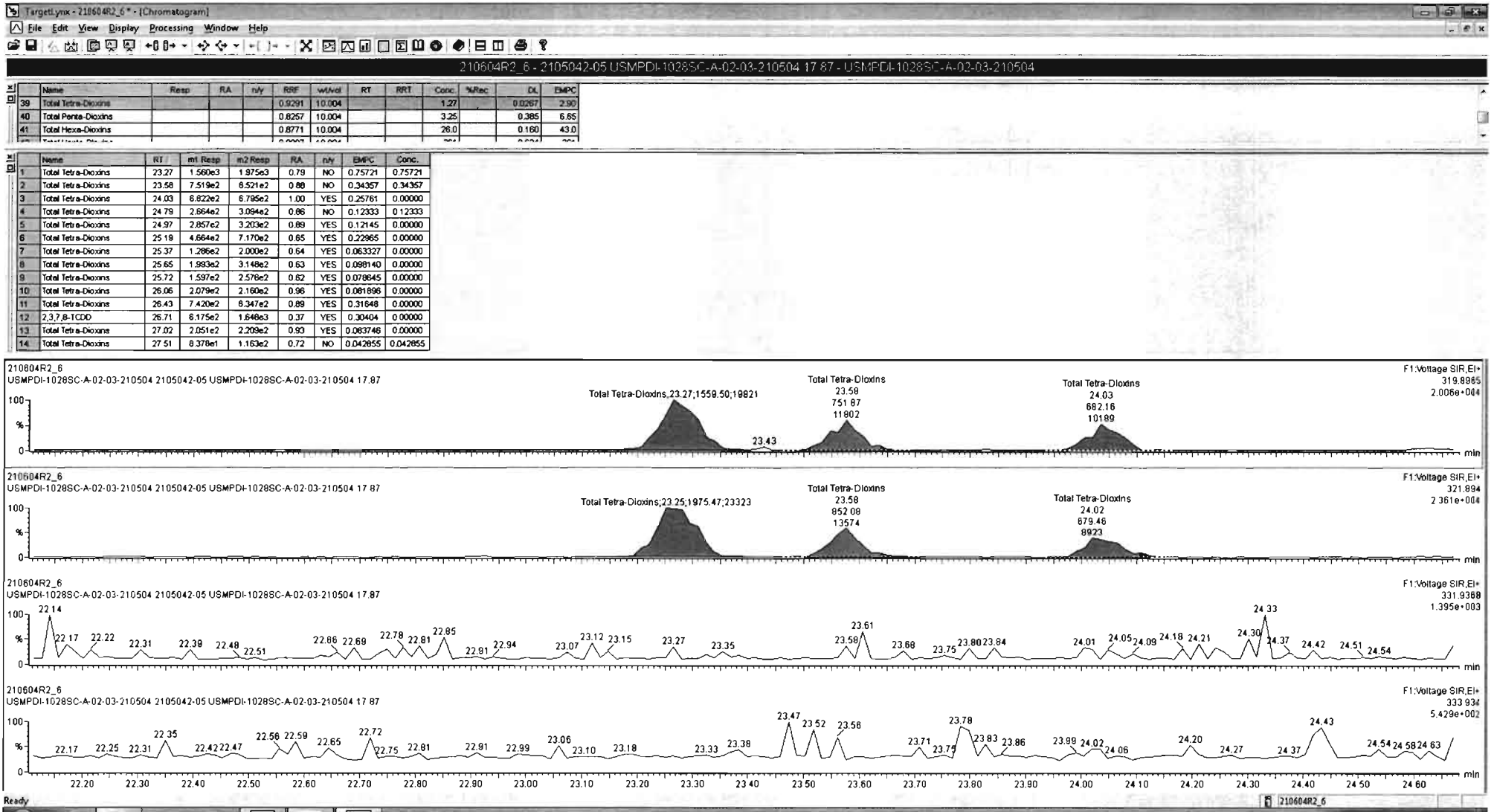


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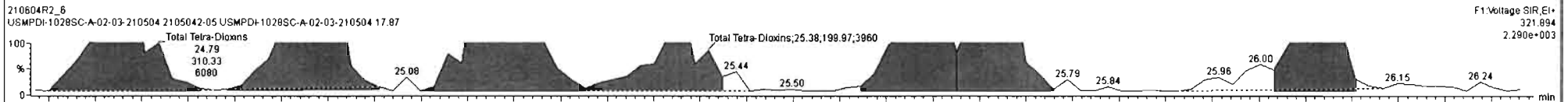
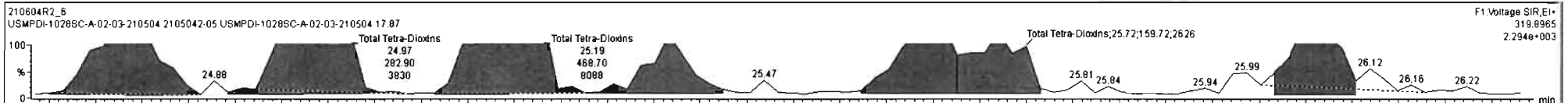
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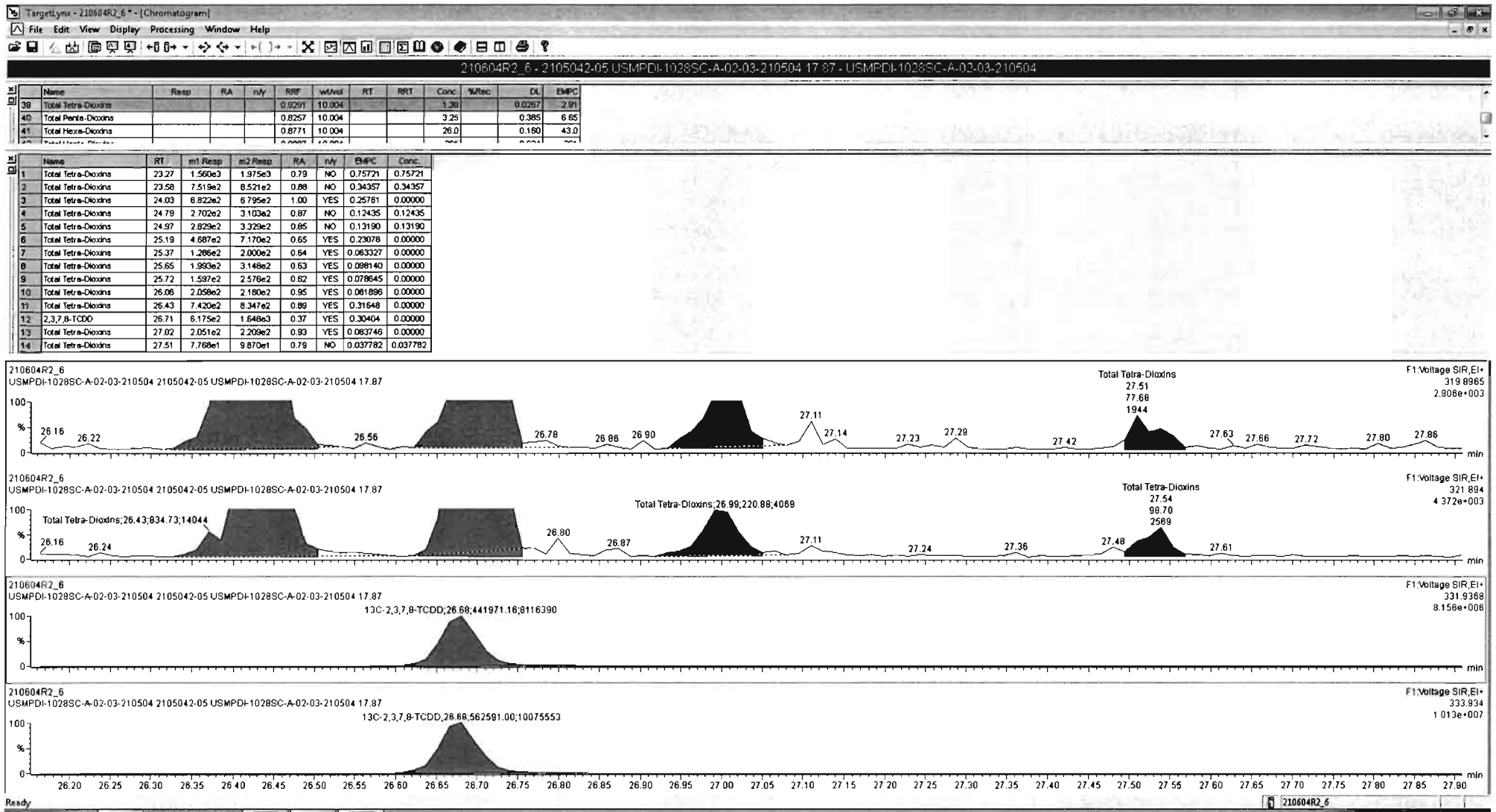




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39 Total Tetra-Dioxins				0.9291	10.004			1.40		0.0267	2.91
40 Total Penta-Dioxins				0.8257	10.004			3.25		0.385	6.65
41 Total Hexa-Dioxins				0.8771	10.004			26.0		0.180	43.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.27	1.560e3	1.975e3	0.79	NO	0.75721	0.75721
2 Total Tetra-Dioxins	23.58	7.519e2	8.521e2	0.88	NO	0.34357	0.34357
3 Total Tetra-Dioxins	24.03	8.822e2	6.795e2	1.00	YES	0.25761	0.00000
4 Total Tetra-Dioxins	24.78	2.702e2	3.103e2	0.87	NO	0.12435	0.12435
5 Total Tetra-Dioxins	24.97	2.829e2	3.329e2	0.85	NO	0.13190	0.13190
6 Total Tetra-Dioxins	25.19	4.687e2	7.170e2	0.65	YES	0.23078	0.00000
7 Total Tetra-Dioxins	25.37	1.286e2	2.000e2	0.64	YES	0.083327	0.00000
8 Total Tetra-Dioxins	25.65	1.983e2	3.148e2	0.63	YES	0.098140	0.00000
9 Total Tetra-Dioxins	25.72	1.597e2	2.576e2	0.62	YES	0.078645	0.00000
10 Total Tetra-Dioxins	26.06	2.058e2	2.160e2	0.95	YES	0.081896	0.00000
11 Total Tetra-Dioxins	26.43	7.420e2	8.347e2	0.89	YES	0.31648	0.00000
12 2,3,7,8-TCDD	26.71	6.175e2	1.648e3	0.37	YES	0.30404	0.00000
13 Total Tetra-Dioxins	27.02	2.051e2	2.209e2	0.93	YES	0.083748	0.00000
14 Total Tetra-Dioxins	27.51	8.378e1	1.163e2	0.72	NO	0.042855	0.042855





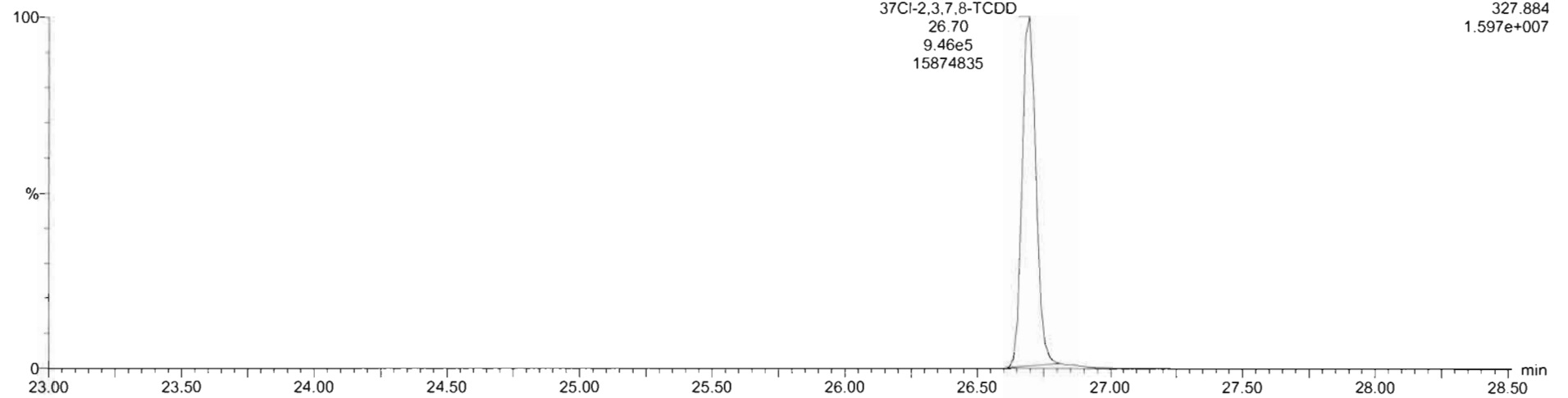
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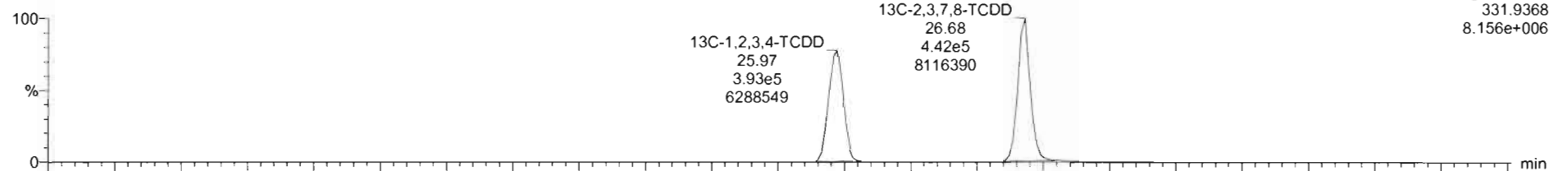
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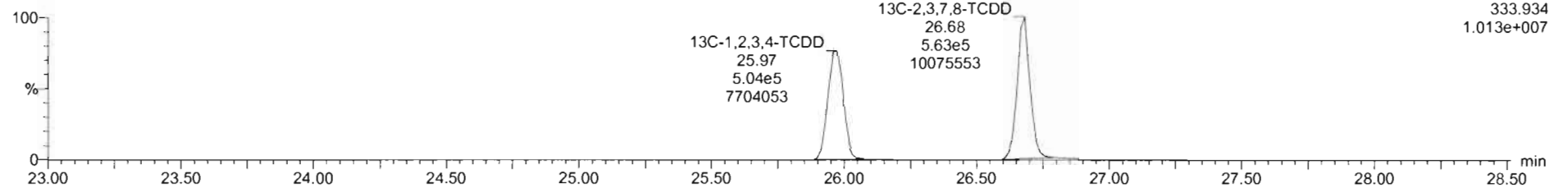


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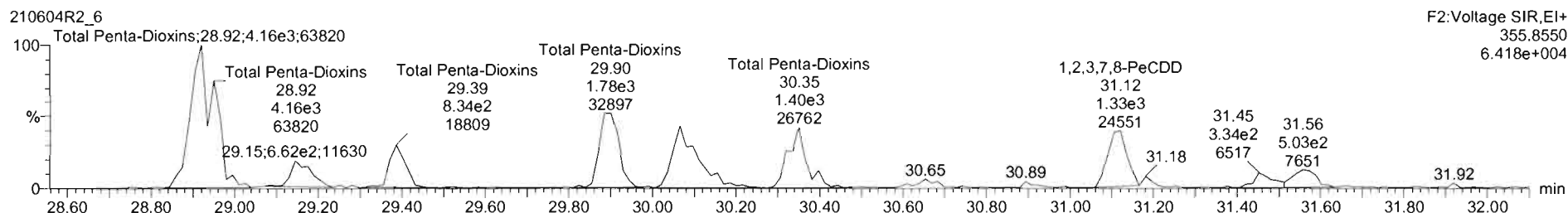
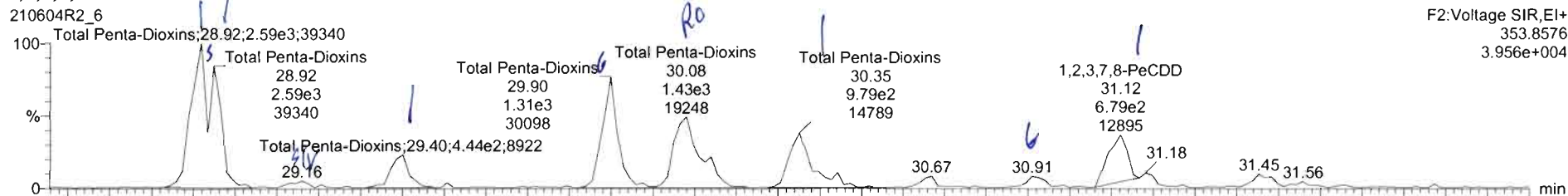


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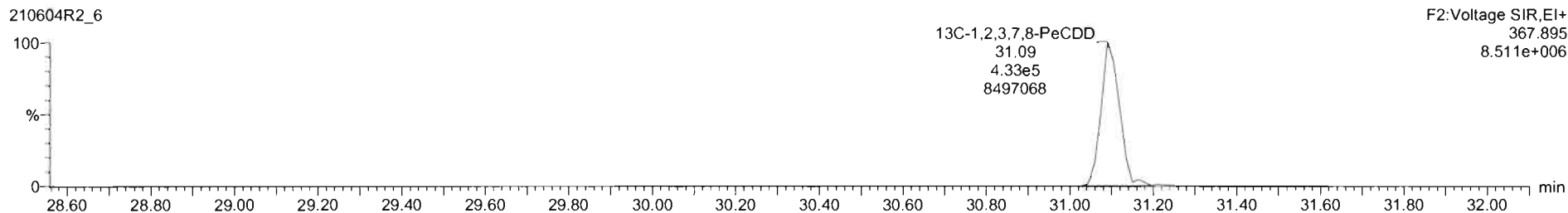
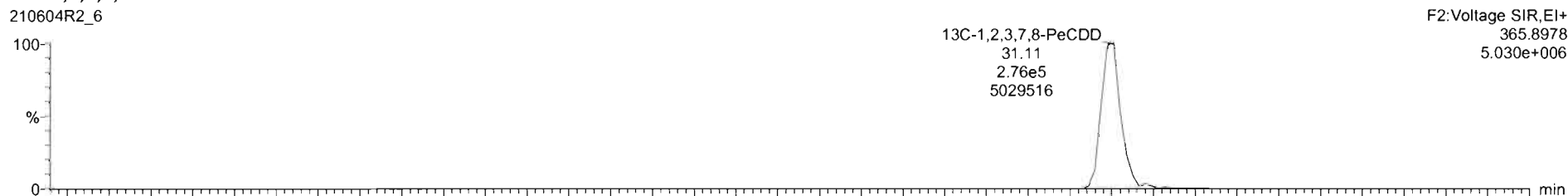
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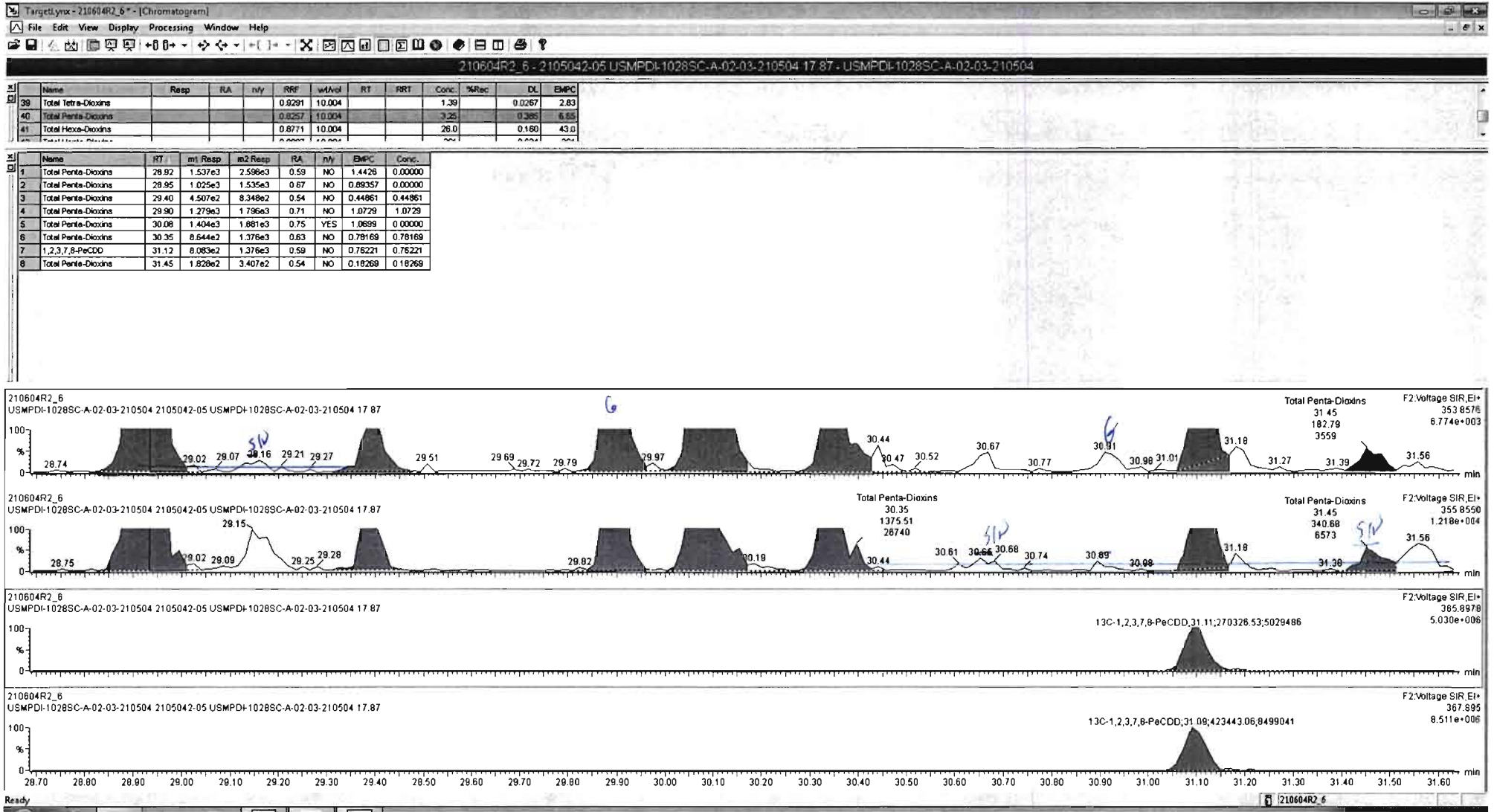
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1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD



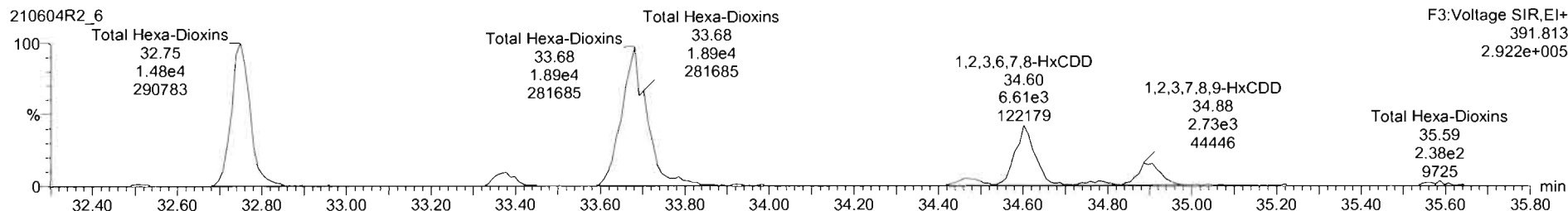
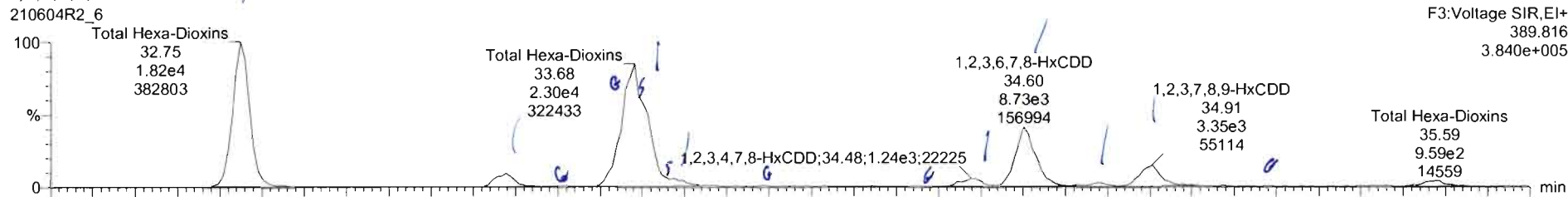


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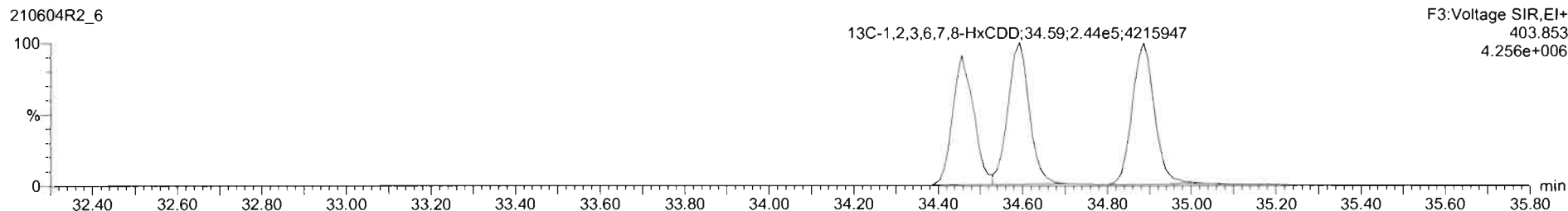
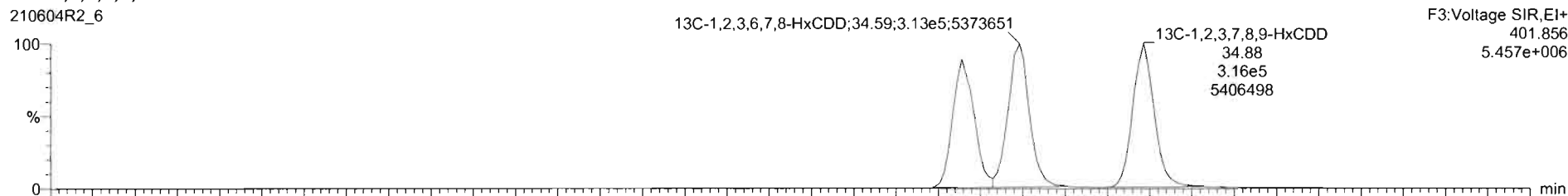
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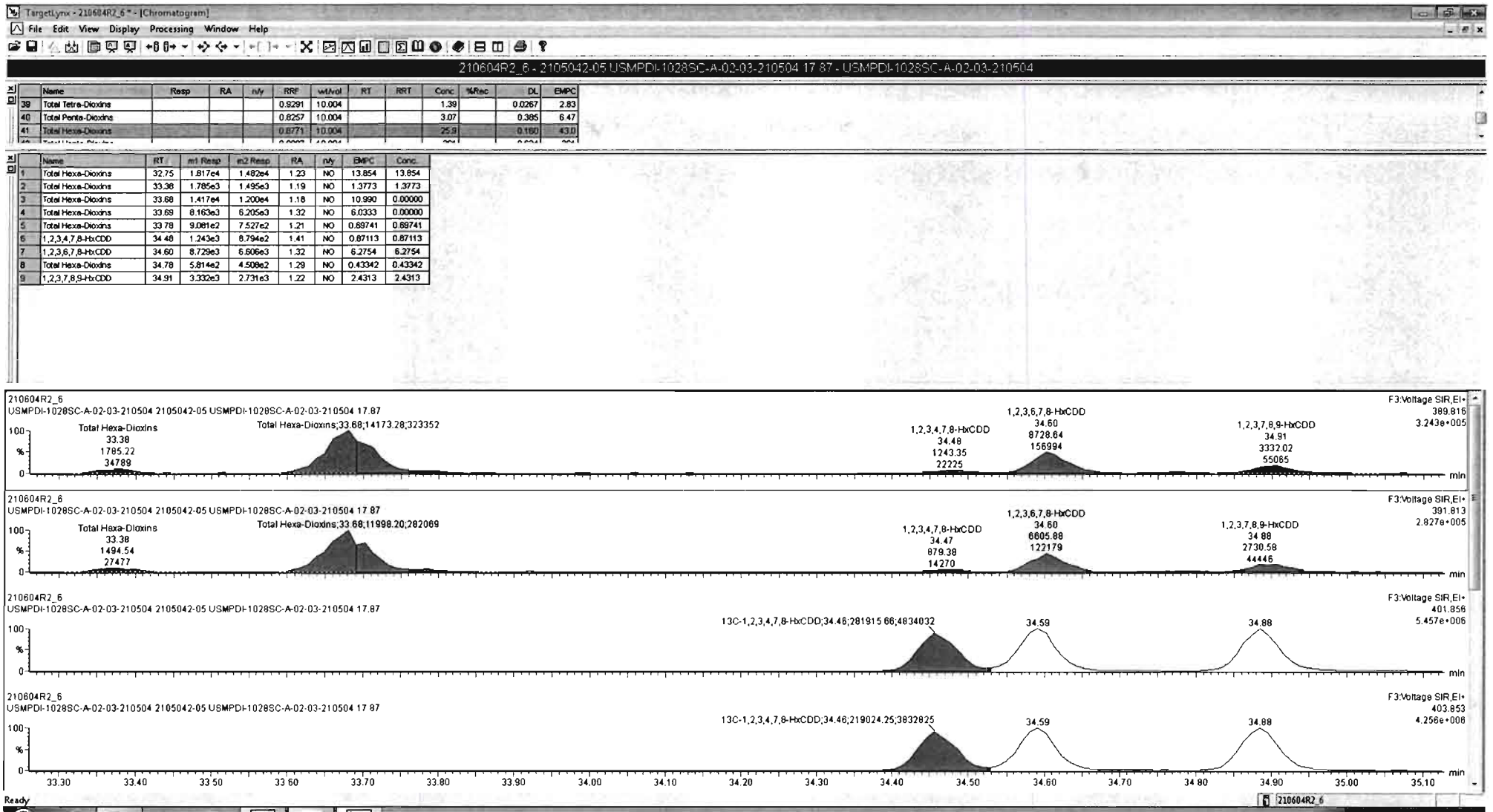
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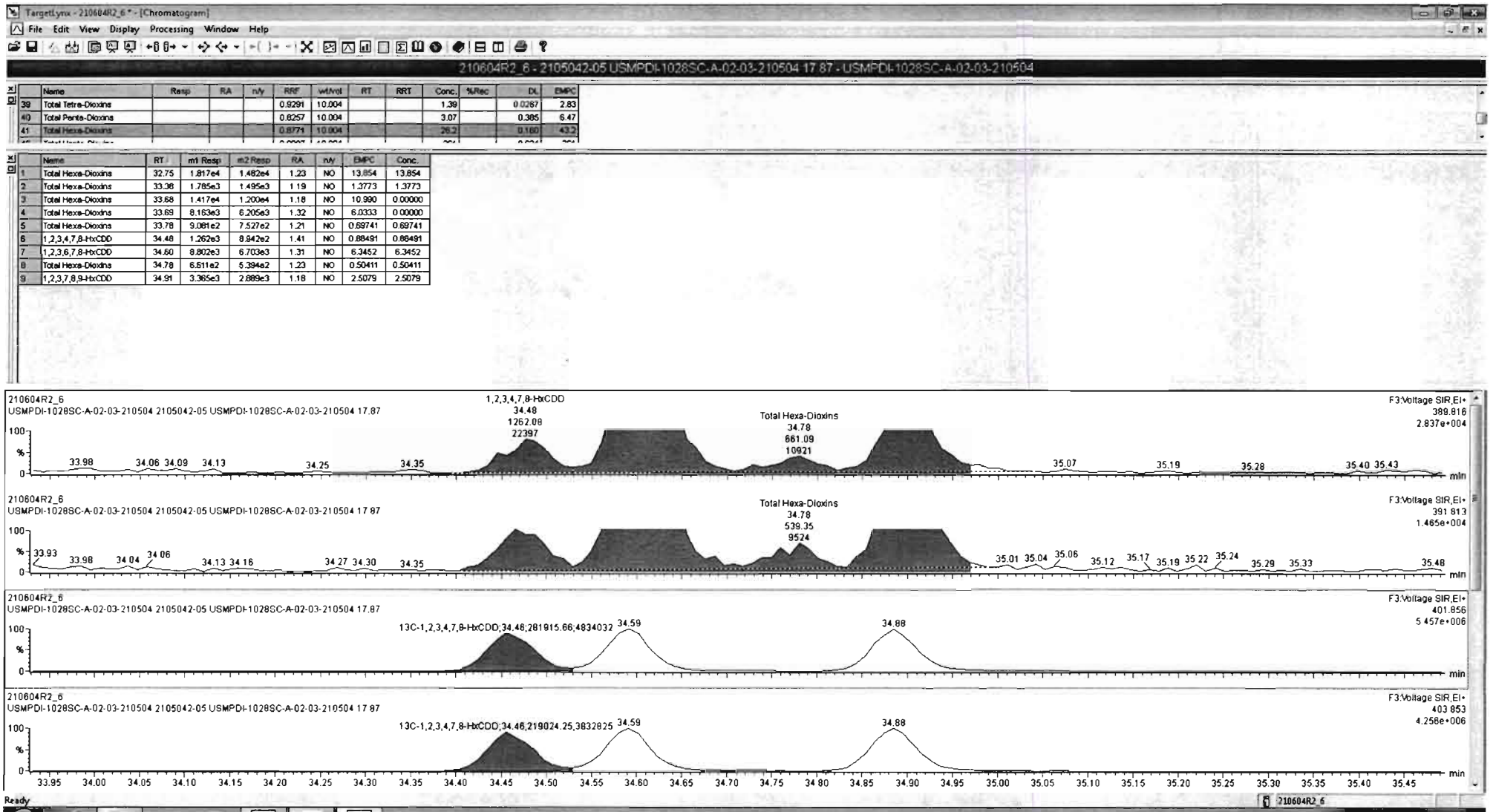
1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD







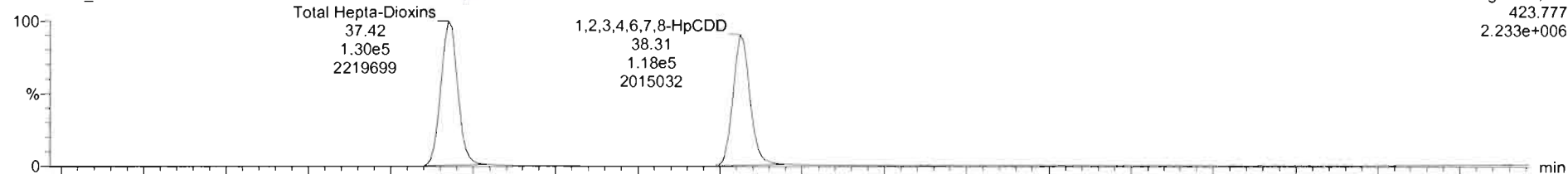
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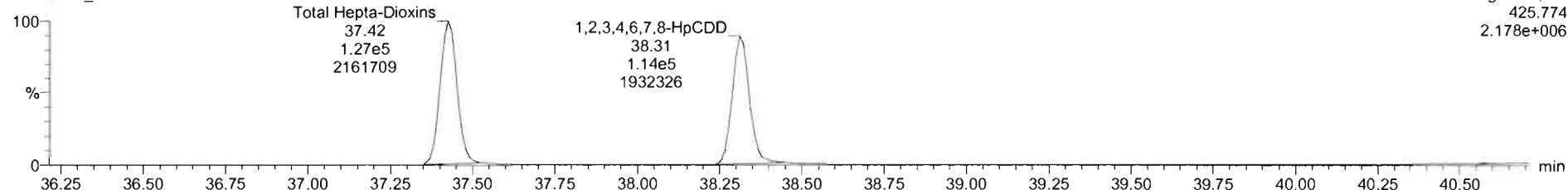
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1,2,3,4,6,7,8-HpCDD

210604R2_6

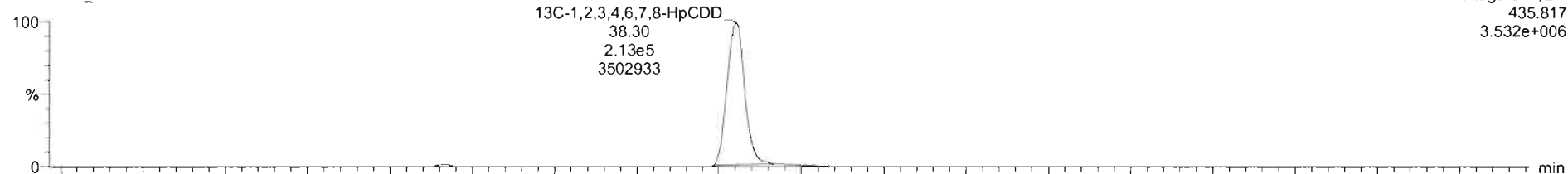


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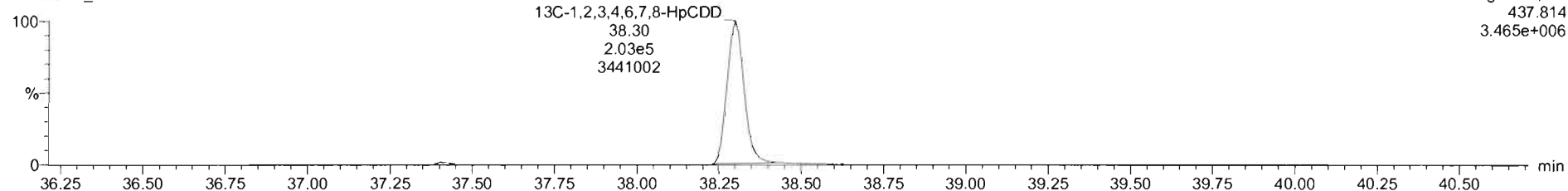


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210604R2_6



210604R2_6



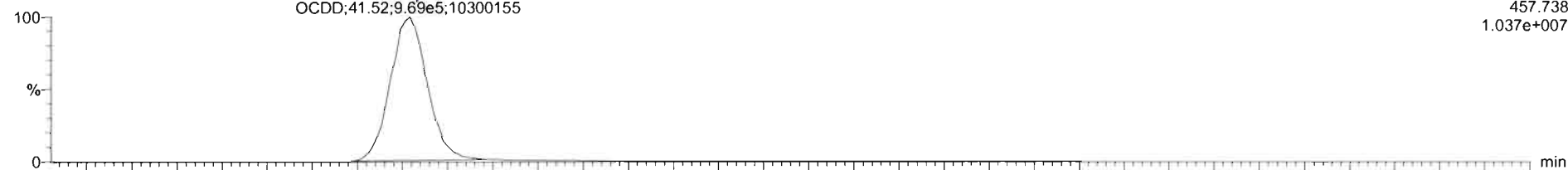
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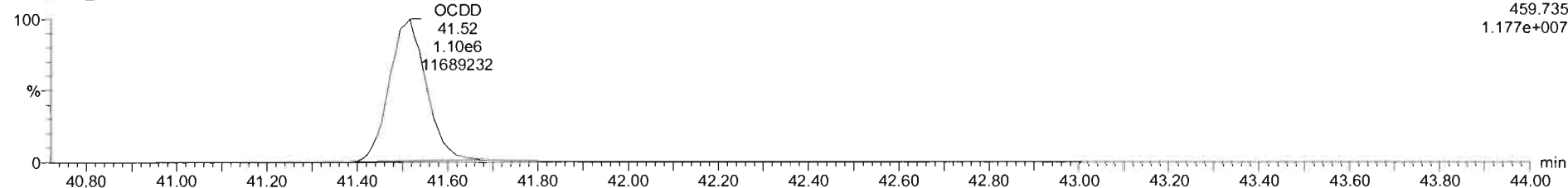
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OCDD

210604R2_6

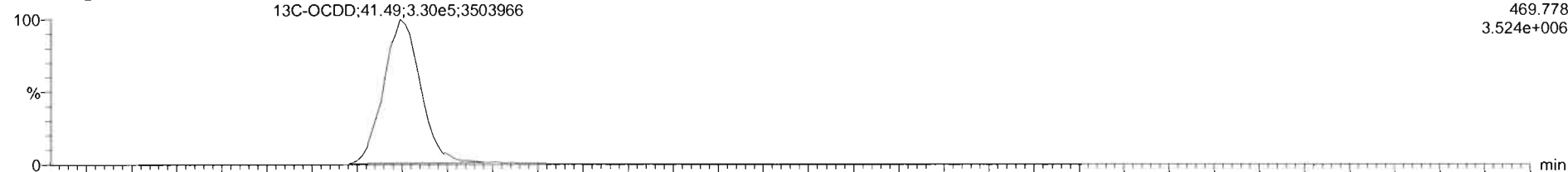


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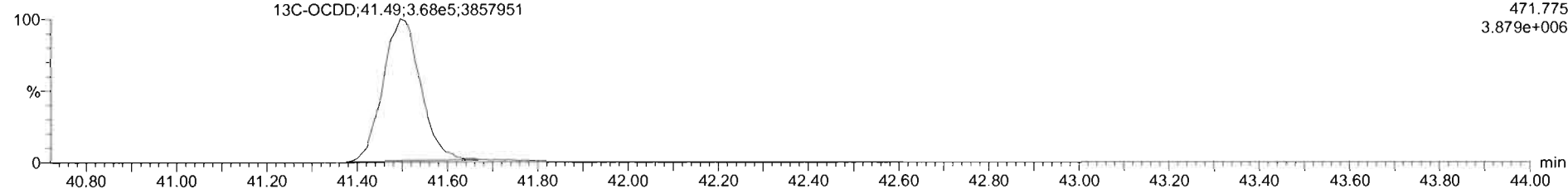


13C-OCDD

210604R2_6



210604R2_6

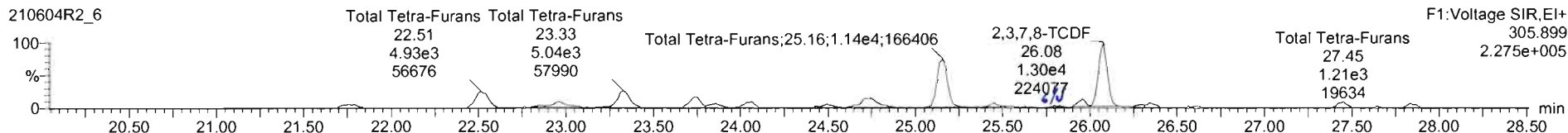
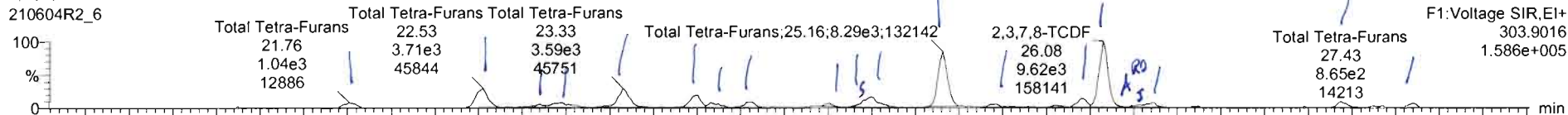


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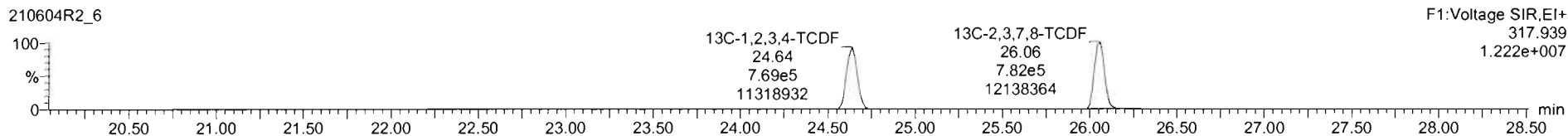
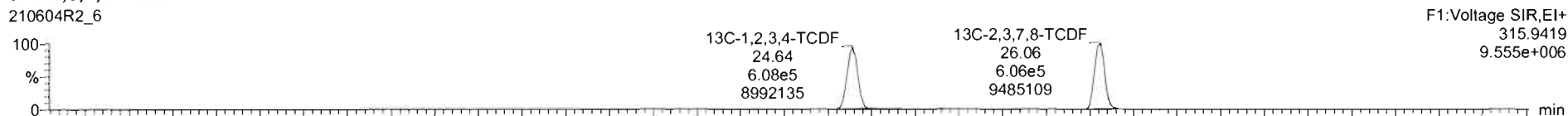
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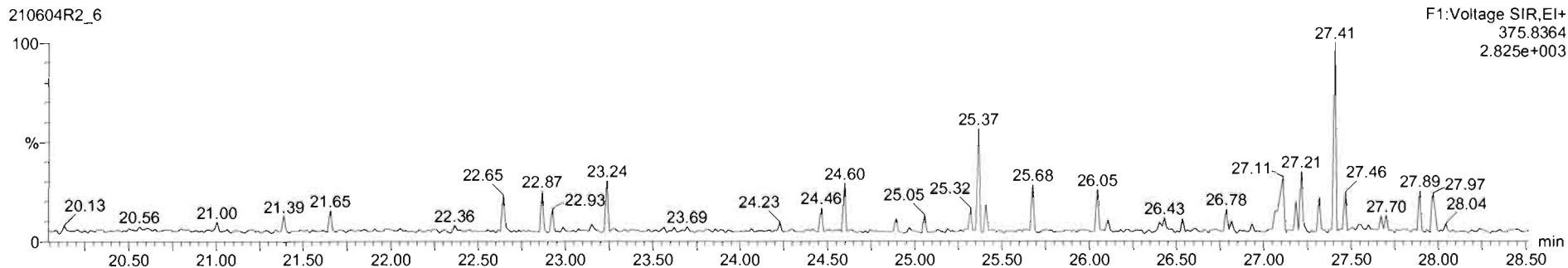
2,3,7,8-TCDF



13C-2,3,7,8-TCDF

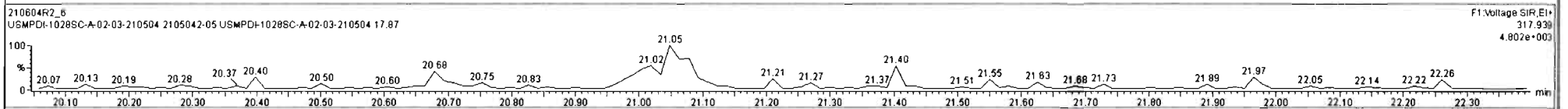
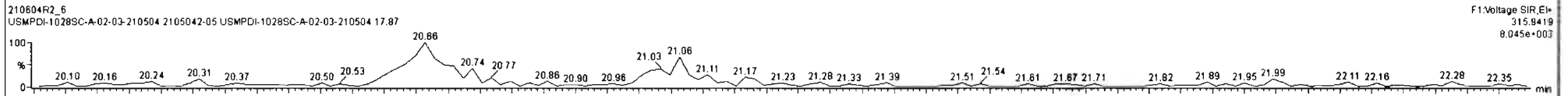
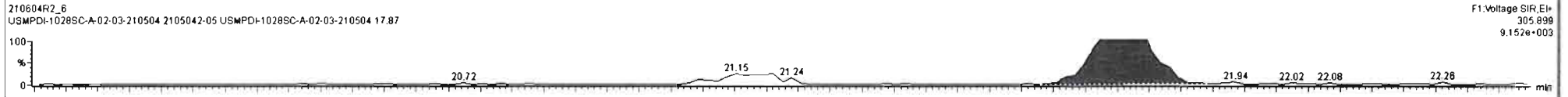
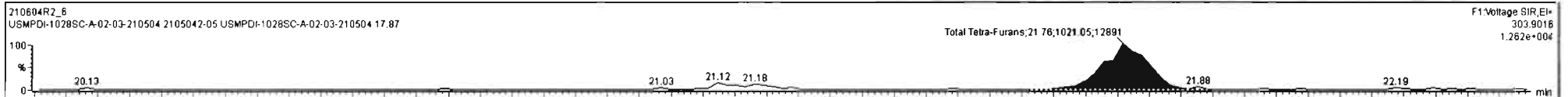


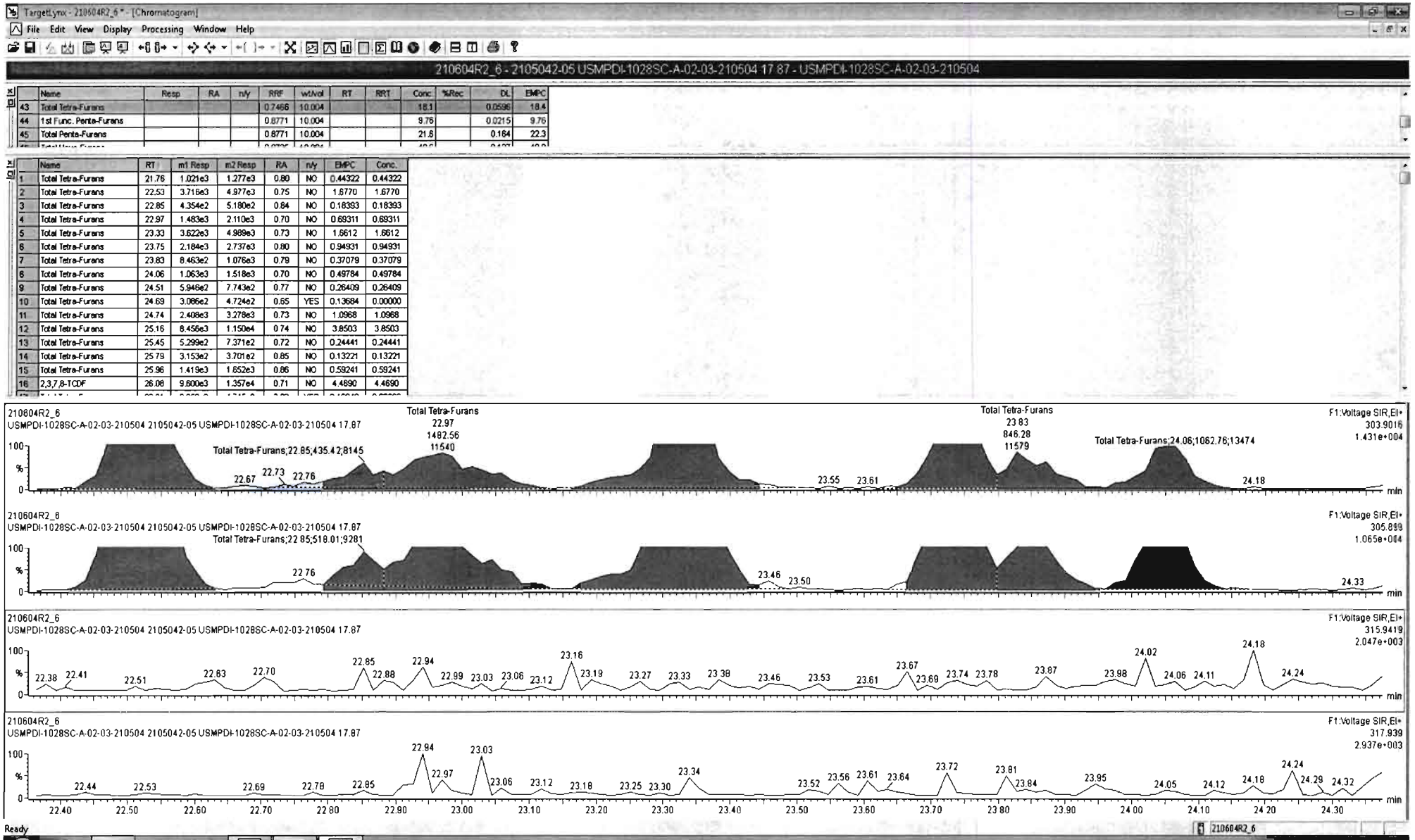
DPE1



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.004			17.9		0.0596	18.4
44 1st Func. Penta-Furans				0.8771	10.004			9.76		0.0215	9.76
45 Total Penta-Furans				0.8771	10.004			21.6		0.164	22.3

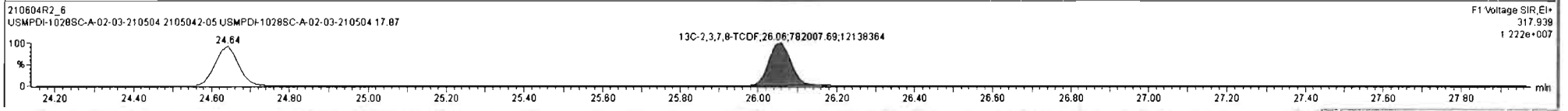
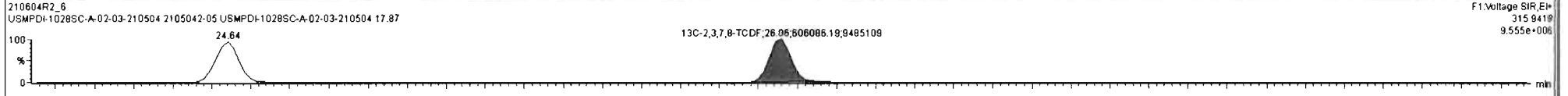
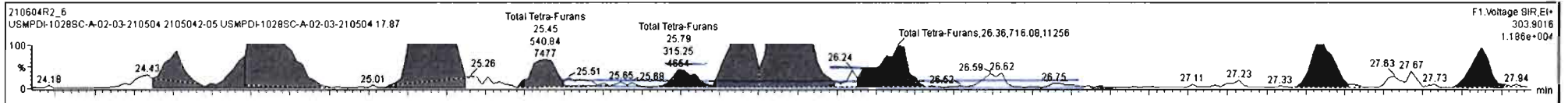
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.76	1.021e3	1.277e3	0.80	NO	0.44322	0.44322
2 Total Tetra-Furans	22.53	3.716e3	4.977e3	0.75	NO	1.6770	1.6770
3 Total Tetra-Furans	22.85	4.630e2	5.180e2	0.89	YES	0.17687	0.00000
4 Total Tetra-Furans	22.97	1.483e3	2.110e3	0.70	NO	0.69311	0.69311
5 Total Tetra-Furans	23.33	3.857e3	4.989e3	0.73	NO	1.6669	1.6669
6 Total Tetra-Furans	23.75	2.204e3	2.776e3	0.79	NO	0.96077	0.96077
7 Total Tetra-Furans	23.83	8.463e2	1.078e3	0.79	NO	0.37079	0.37079
8 Total Tetra-Furans	24.06	1.063e3	1.518e3	0.70	NO	0.49784	0.49784
9 Total Tetra-Furans	24.51	5.946e2	7.743e2	0.77	NO	0.26409	0.26409
10 Total Tetra-Furans	24.68	3.086e2	4.724e2	0.65	YES	0.13684	0.00000
11 Total Tetra-Furans	24.74	2.408e3	3.278e3	0.73	NO	1.0968	1.0968
12 Total Tetra-Furans	25.16	8.456e3	1.150e4	0.74	NO	3.8503	3.8503
13 Total Tetra-Furans	25.45	5.299e2	7.371e2	0.72	NO	0.24441	0.24441
14 Total Tetra-Furans	25.79	3.153e2	3.701e2	0.85	NO	0.13221	0.13221
15 Total Tetra-Furans	25.96	1.419e3	1.852e3	0.86	NO	0.59241	0.59241
16 2,3,7,8-TCDF	26.08	9.600e3	1.357e4	0.71	NO	4.4690	4.4690





Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7465	10.004			19.4		0.0596	18.5
44 1st Func. Penta-Furans				0.8771	10.004			9.76		0.0215	9.76
45 Total Penta-Furans				0.8771	10.004			21.6		0.184	22.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.76	1.021e3	1.277e3	0.80	NO	0.44322	0.44322
2 Total Tetra-Furans	22.53	3.716e3	4.977e3	0.75	NO	1.6770	1.6770
3 Total Tetra-Furans	22.85	4.354e2	5.180e2	0.84	NO	0.18393	0.18393
4 Total Tetra-Furans	22.97	1.483e3	2.110e3	0.70	NO	0.69311	0.69311
5 Total Tetra-Furans	23.33	3.622e3	4.989e3	0.73	NO	1.6812	1.6812
6 Total Tetra-Furans	23.75	2.184e3	2.737e3	0.80	NO	0.94931	0.94931
7 Total Tetra-Furans	23.83	8.463e2	1.076e3	0.78	NO	0.37079	0.37079
8 Total Tetra-Furans	24.06	1.063e3	1.518e3	0.70	NO	0.49784	0.49784
9 Total Tetra-Furans	24.51	6.296e2	7.743e2	0.81	NO	0.27082	0.27082
10 Total Tetra-Furans	24.69	3.681e2	4.724e2	0.78	NO	0.16215	0.16215
11 Total Tetra-Furans	24.74	2.408e3	3.281e3	0.73	NO	1.0975	1.0975
12 Total Tetra-Furans	25.16	8.610e3	1.162e4	0.74	NO	3.9020	3.9020
13 Total Tetra-Furans	25.45	5.406e2	8.230e2	0.68	NO	0.26309	0.26309
14 Total Tetra-Furans	25.79	3.153e2	3.701e2	0.85	NO	0.13221	0.13221
15 Total Tetra-Furans	25.96	1.419e3	1.652e3	0.86	NO	0.59241	0.59241
16 2,3,7,8-TCDF	26.08	9.600e3	1.357e4	0.71	NO	4.4690	4.4690
17 Total Tetra-Furans	26.31	2.850e2	5.320e2	0.54	YES	0.12640	0.00000



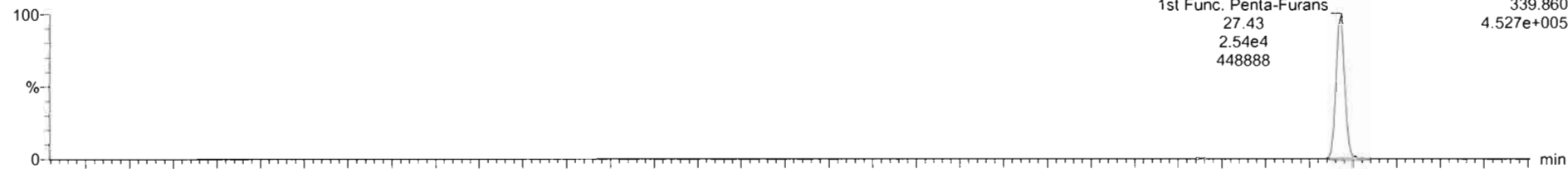
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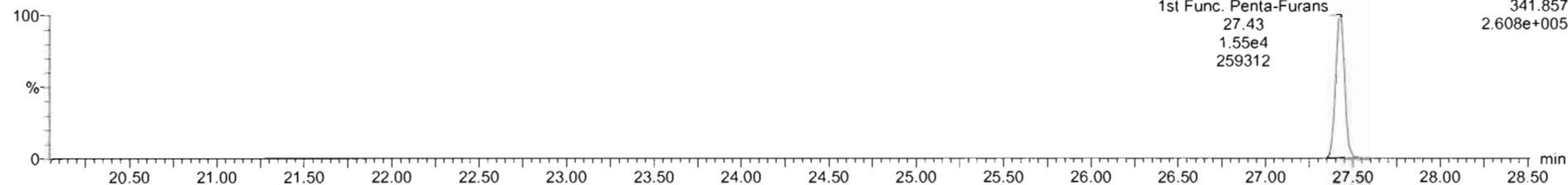
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1st Func. Penta-Furans

210604R2_6

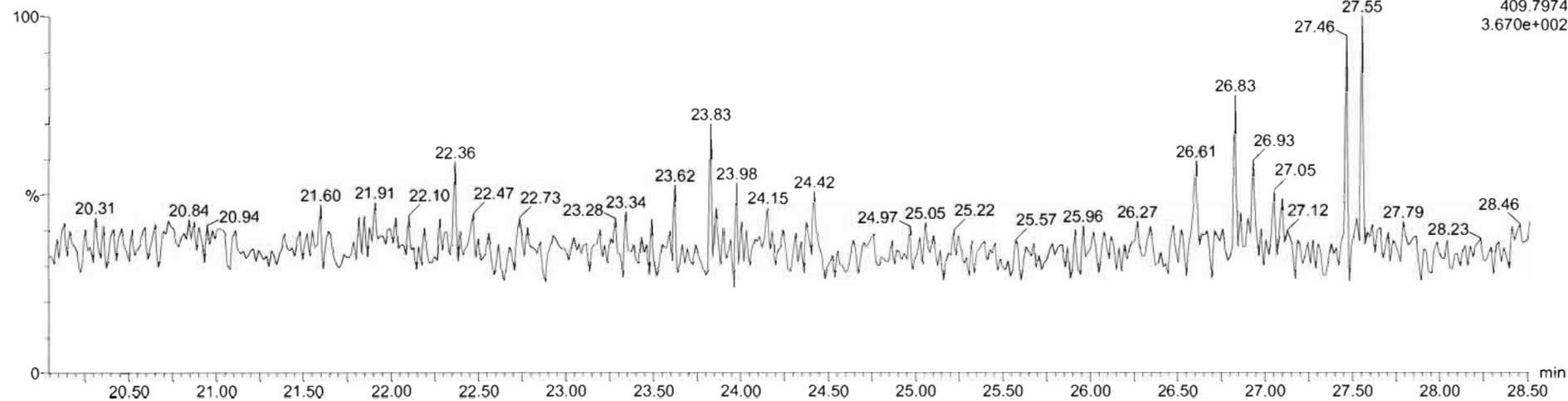


210604R2_6



DPE6

210604R2_6



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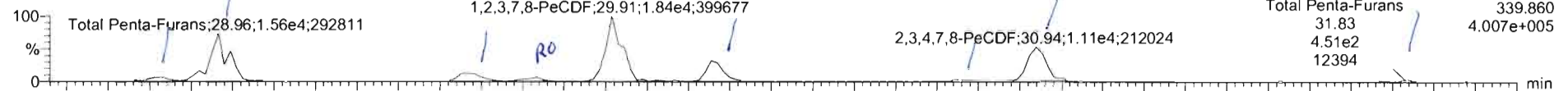
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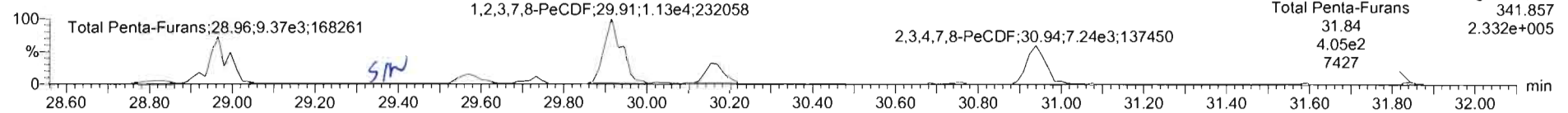
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1,2,3,7,8-PeCDF

210604R2_6



210604R2_6

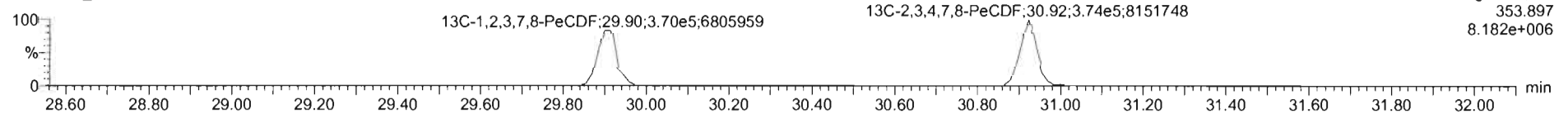


13C-1,2,3,7,8-PeCDF

210604R2_6

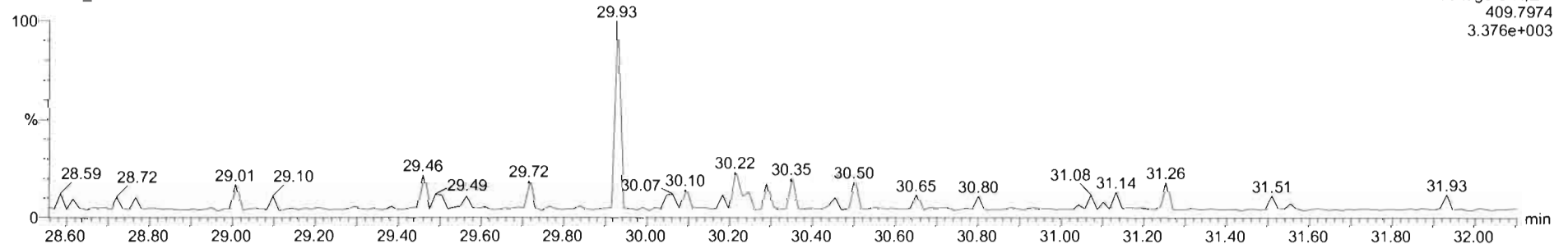


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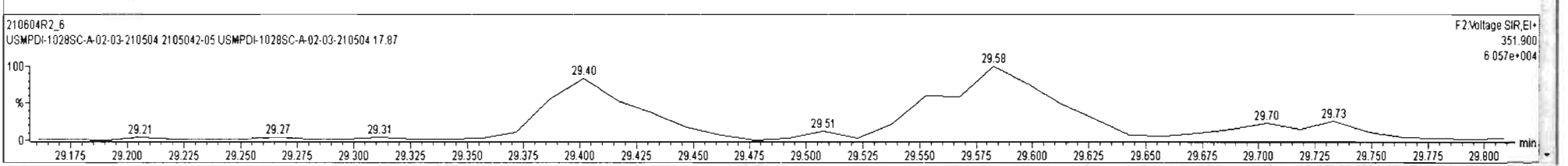
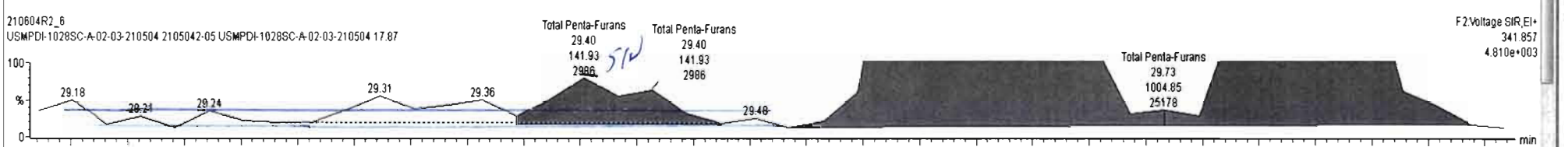
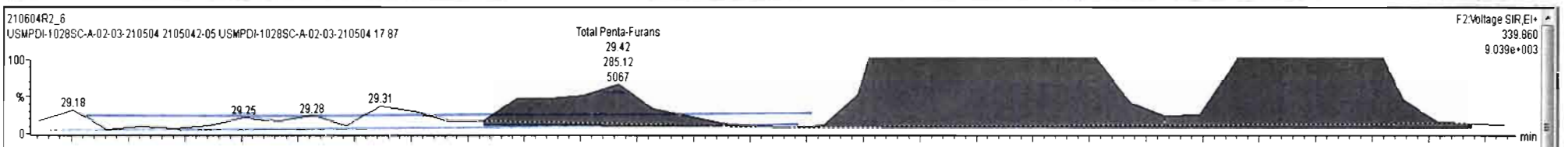
DPE2

210604R2_6



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.004			18.2	0.0596	18.3	
44 1st Func. Penta-Furans				0.8771	10.004			9.76	0.0215	9.76	
45 Total Penta-Furans				0.8771	10.004			21.6	0.164	22.3	

Name	RT	m1 Resp	m2 Resp	RIA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.83	1.614e3	9.421e2	1.71	NO	0.60995	0.60995
2 Total Penta-Furans	28.97	1.557e4	9.374e3	1.66	NO	5.9525	5.9525
3 Total Penta-Furans	29.42	2.851e2	1.419e2	2.01	YES	0.086373	0.00000
4 Total Penta-Furans	29.55	3.404e3	2.164e3	1.57	NO	1.3288	1.3288
5 Total Penta-Furans	29.73	1.236e3	1.005e3	1.23	YES	0.48544	0.00000
6 1,2,3,7,8-PeCDF	29.91	1.842e4	1.129e4	1.63	NO	7.2294	7.2294
7 Total Penta-Furans	30.16	6.078e3	3.744e3	1.62	NO	2.3440	2.3440
8 Total Penta-Furans	30.74	5.135e2	3.056e2	1.68	NO	0.19548	0.19548
9 2,3,4,7,8-PeCDF	30.94	1.114e4	7.245e3	1.54	NO	3.9240	3.9240
10 Total Penta-Furans	31.83	4.505e2	4.051e2	1.11	YES	0.17688	0.00000



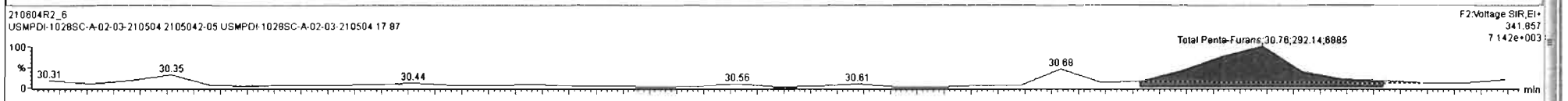
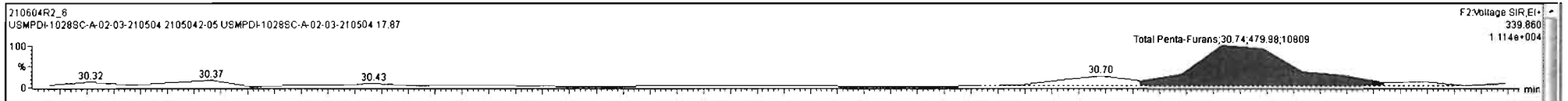
TargetLynx - 210604R2_6* - [Chromatogram]

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210604R2_6 - 2105042-05 USMPDI-1028SC-A-02-03-210504 17:87 - USMPDI-1028SC-A-02-03-210504

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.004			18.2		0.0596	18.3
44 1st Func. Penta-Furans				0.8771	10.004			9.76		0.0215	9.76
45 Total Penta-Furans				0.8771	10.004			21.8		0.184	22.2

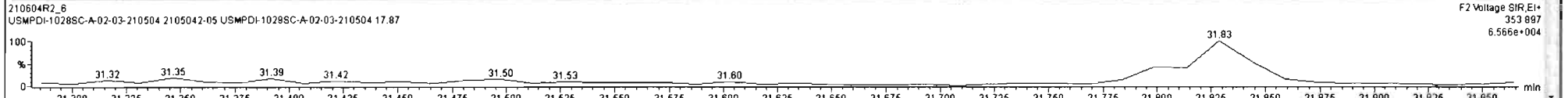
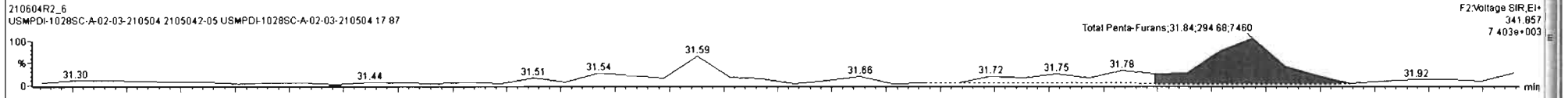
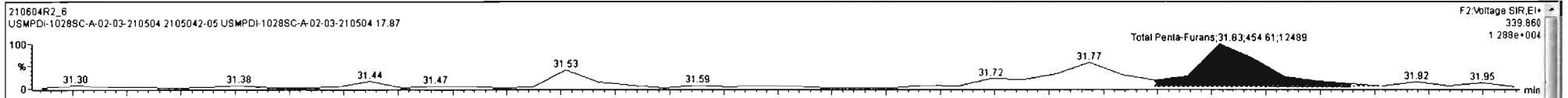
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.83	1.514e3	9.421e2	1.71	NO	0.60995	0.60995
2 Total Penta-Furans	28.97	1.557e3	9.374e3	1.66	NO	5.9525	5.9525
3 Total Penta-Furans	29.55	3.404e3	2.164e3	1.57	NO	1.3288	1.3288
4 Total Penta-Furans	29.73	1.236e3	1.005e3	1.23	YES	0.48544	0.00000
5 1,2,3,7,8-PeCDF	29.91	1.842e4	1.129e4	1.63	NO	7.2294	7.2294
6 Total Penta-Furans	30.15	6.078e3	3.744e3	1.62	NO	2.3440	2.3440
7 Total Penta-Furans	30.74	4.800e2	2.921e2	1.84	NO	0.18426	0.18426
8 2,3,4,7,8-PeCDF	30.94	1.114e4	7.245e3	1.54	NO	3.9240	3.9240
9 Total Penta-Furans	31.83	4.546e2	2.947e2	1.54	NO	0.17882	0.17882



Ready 210604R2_6

ID	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7468	10.004			18.2		0.0596	18.3
44	1st Func. Penta-Furans				0.8771	10.004			9.76		0.0215	9.76
45	Total Penta-Furans				0.8771	10.004			21.9		0.184	22.2

ID	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.83	1.614e3	9.421e2	1.71	NO	0.60995	0.60995
2	Total Penta-Furans	28.97	1.557e4	9.374e3	1.66	NO	5.9525	5.9525
3	Total Penta-Furans	29.55	3.404e3	2.164e3	1.57	NO	1.3288	1.3288
4	Total Penta-Furans	29.73	1.236e3	1.005e3	1.23	YES	0.48544	0.00000
5	1,2,3,7,8-PeCDF	29.91	1.842e4	1.129e4	1.63	NO	7.2294	7.2294
6	Total Penta-Furans	30.16	6.079e3	3.744e3	1.62	NO	2.3440	2.3440
7	Total Penta-Furans	30.74	4.800e2	2.821e2	1.64	NO	0.18426	0.18426
8	2,3,4,7,8-PeCDF	30.94	1.114e4	7.245e3	1.54	NO	3.9240	3.9240
9	Total Penta-Furans	31.83	4.546e2	2.947e2	1.54	NO	0.17882	0.17882

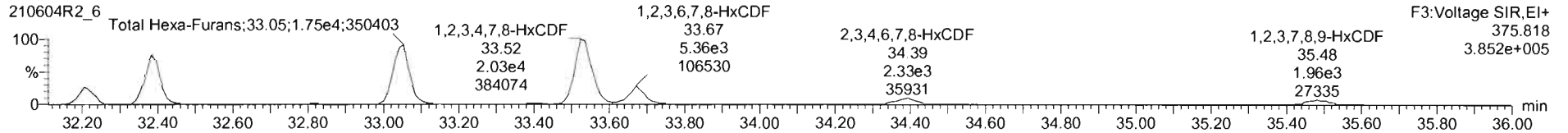
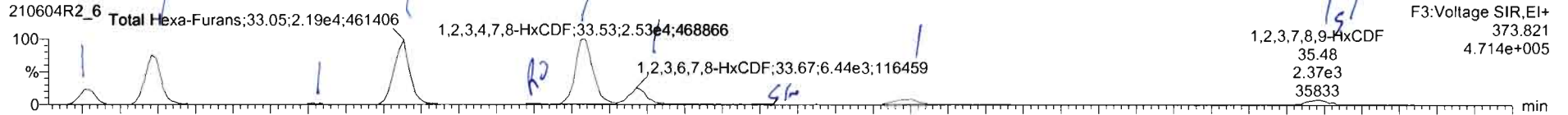


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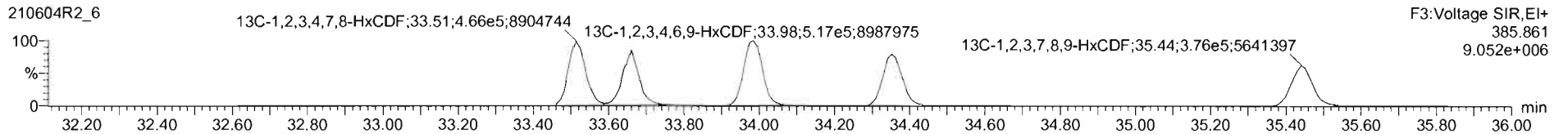
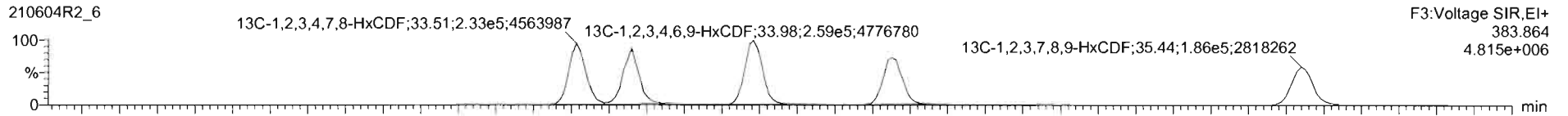
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Name: 210604R2_6, Date: 04-Jun-2021, Time: 14:16:55, ID: 2105042-05 USMPDI-1028SC-A-02-03-210504 17.87, Description: USMPDI-1028SC-A-02-03-210504

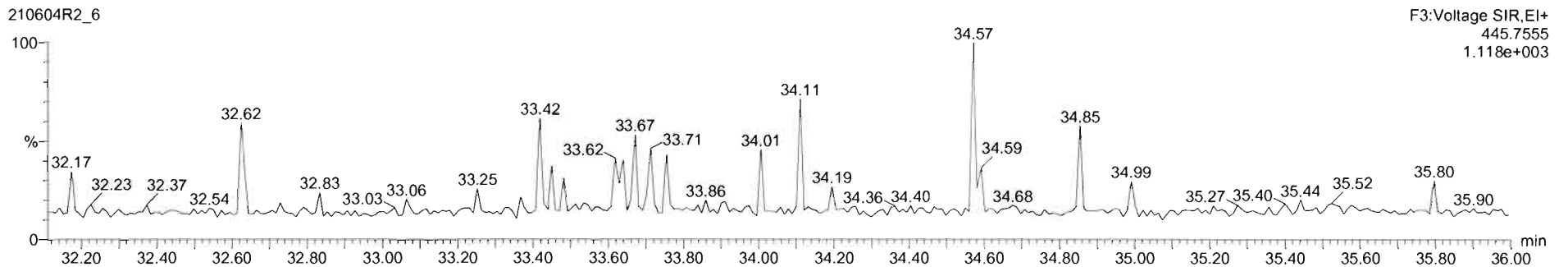
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



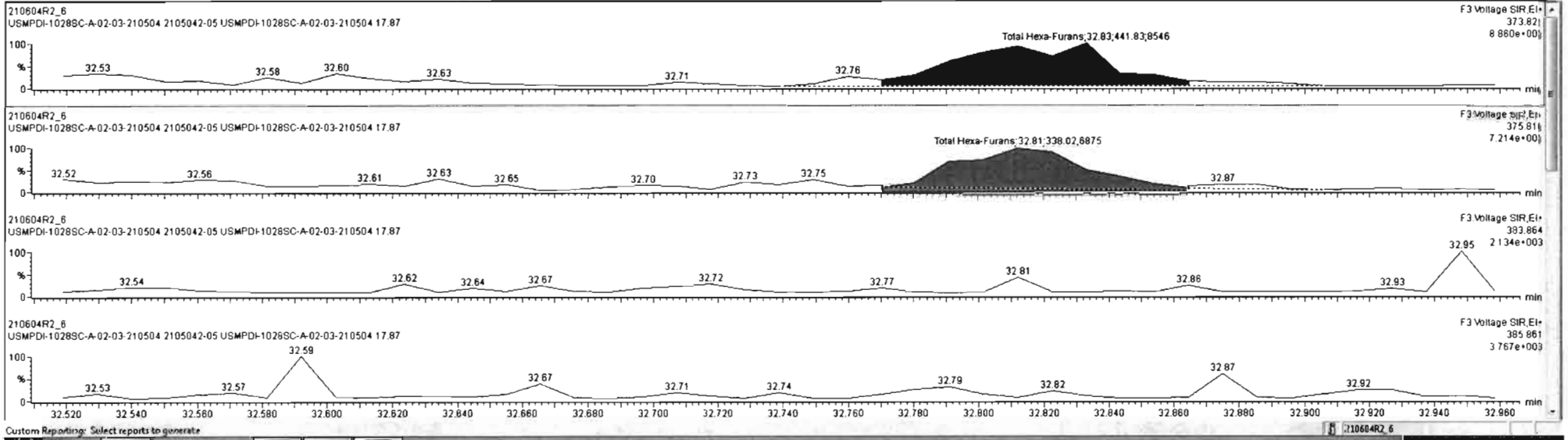
DPE3



TargetLynx - 210604R2_6* - [Chromatogram]

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7455	10.004		18.2		0.0596	18.3
44	1st Func. Penta-Furans				0.8771	10.004		9.76		0.0215	9.76
45	Total Penta-Furans							21.8		0.184	22.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Hexa-Furans	32.22	5.360e3	4.624e3	1.18	NO	3.3020	3.3020
2	Total Hexa-Furans	32.38	1.731e4	1.357e4	1.28	NO	10.211	10.211
3	Total Hexa-Furans	32.83	4.418e2	3.380e2	1.31	NO	0.25784	0.25784
4	Total Hexa-Furans	33.05	2.187e4	1.748e4	1.25	NO	13.009	13.009
5	Total Hexa-Furans	33.40	3.693e2	3.605e2	1.02	YES	0.21998	0.00000
6	1,2,3,4,7,8-HxCDF	33.53	2.551e4	2.037e4	1.25	NO	14.259	14.259
7	1,2,3,6,7,8-HxCDF	33.67	6.583e3	5.484e3	1.20	NO	4.3586	4.3586
8	2,3,4,6,7,8-HxCDF	34.40	2.762e3	2.325e3	1.19	NO	1.6453	1.6453
9	1,2,3,7,8,9-HxCDF	35.47	8.323e2	7.052e2	1.18	NO	0.58290	0.58290
10	Total Hexa-Furans	35.48	1.536e3	1.259e3	1.22	NO	0.92413	0.92413



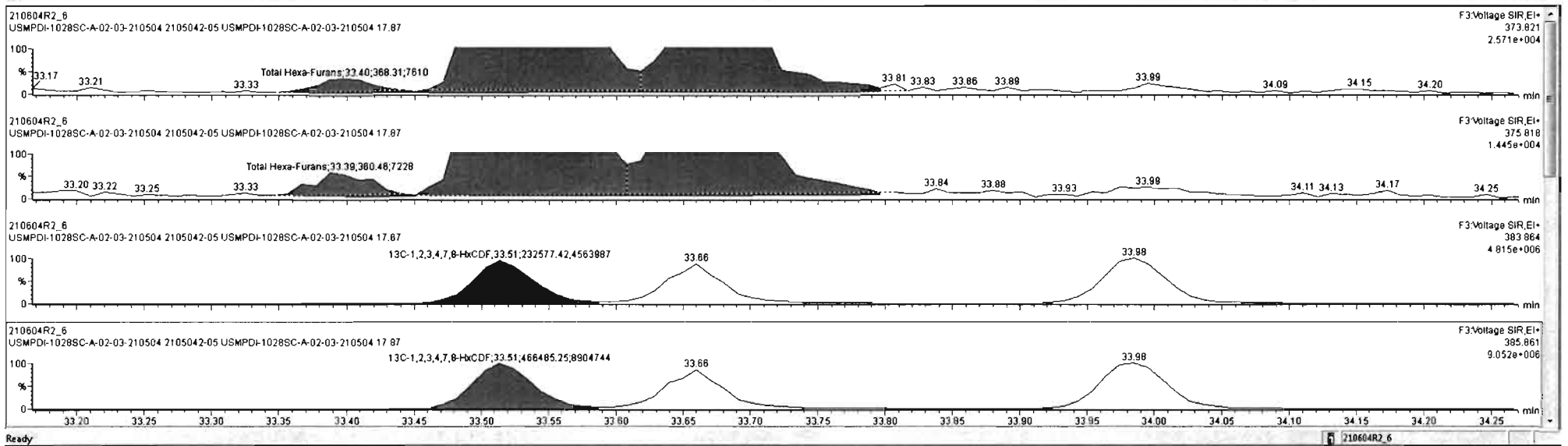
Targetlynx - 210604R2_6* - [Chromatogram]

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210604R2_6* - [Chromatogram] 17.87 USMPDI-1028SC-A-02-03-210504

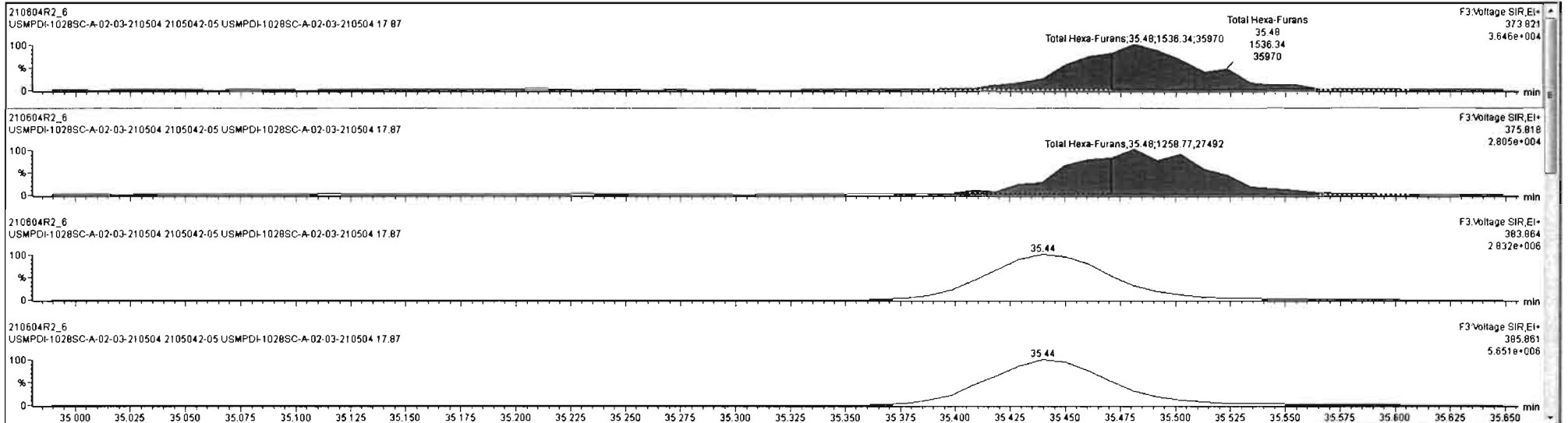
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.004			18.2		0.0596	18.3
44 1st Func. Penta-Furans				0.8771	10.004			9.76		0.0215	9.76
45 Total Penta-Furans				0.8771	10.004			21.8		0.184	22.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	5.366e3	4.624e3	1.18	NO	3.3028	3.3028
2 Total Hexa-Furans	32.38	1.731e4	1.357e4	1.28	NO	10.211	10.211
3 Total Hexa-Furans	32.83	4.419e2	3.380e2	1.31	NO	0.25784	0.25784
4 Total Hexa-Furans	33.05	2.187e4	1.749e4	1.25	NO	13.009	13.009
5 Total Hexa-Furans	33.40	3.683e2	3.805e2	1.02	YES	0.21998	0.00000
6 1,2,3,4,7,8-HxCDF	33.53	2.551e4	2.037e4	1.25	NO	14.259	14.259
7 1,2,3,6,7,8-HxCDF	33.67	6.583e3	5.484e3	1.20	NO	4.3586	4.3586
8 2,3,4,6,7,8-HxCDF	34.40	2.762e3	2.325e3	1.19	NO	1.6453	1.6453
9 1,2,3,7,8-HxCDF	35.47	8.323e2	7.052e2	1.18	NO	0.58290	0.58290
10 Total Hexa-Furans	35.48	1.536e3	1.259e3	1.22	NO	0.92413	0.92413



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.004			18.2		0.0596	18.3
44 1st Func. Penta-Furans				0.8771	10.004			9.76		0.0215	9.76
45 Total Penta-Furans				0.8771	10.004			21.8		0.184	22.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	5.368e3	4.624e3	1.18	NO	3.3028	3.3028
2 Total Hexa-Furans	32.38	1.731e4	1.357e4	1.28	NO	10.211	10.211
3 Total Hexa-Furans	32.83	4.418e2	3.380e2	1.31	NO	0.25784	0.25784
4 Total Hexa-Furans	33.05	2.187e4	1.748e4	1.25	NO	13.009	13.009
5 Total Hexa-Furans	33.40	3.683e2	3.605e2	1.02	YES	0.21998	0.00000
6 1,2,3,4,7,8-HxCDF	33.53	2.551e4	2.037e4	1.25	NO	14.259	14.259
7 1,2,3,6,7,8-HxCDF	33.67	6.583e3	5.484e3	1.20	NO	4.3586	4.3586
8 2,3,4,6,7,8-HxCDF	34.40	2.762e3	2.325e3	1.19	NO	1.6453	1.6453
9 1,2,3,7,8-HxCDF	35.47	8.323e2	7.052e2	1.18	NO	0.58290	0.58290
10 Total Hexa-Furans	35.48	1.536e3	1.259e3	1.22	NO	0.92413	0.92413

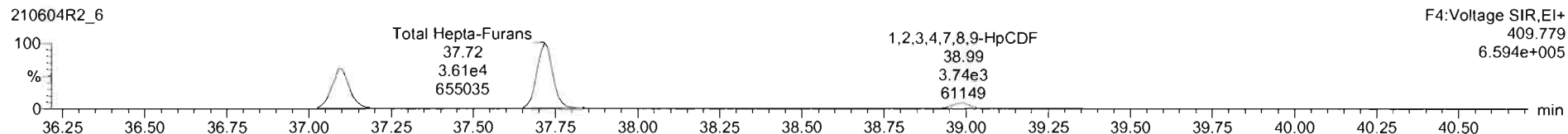
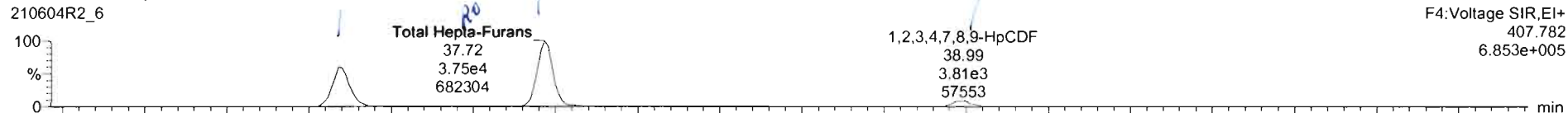


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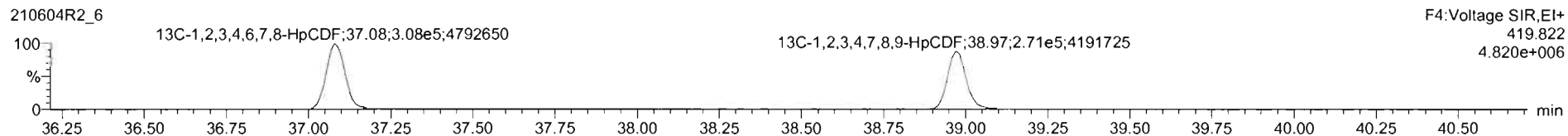
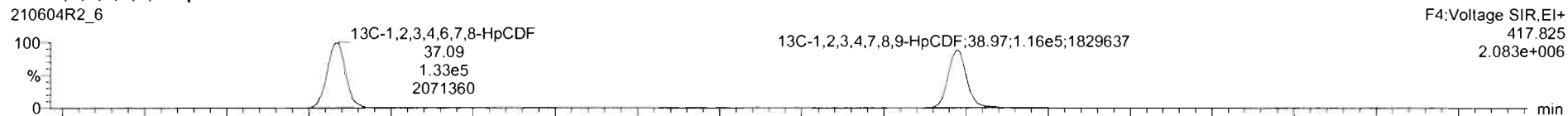
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Name: 210604R2_6, Date: 04-Jun-2021, Time: 14:16:55, ID: 2105042-05 USMPDI-1028SC-A-02-03-210504 17.87, Description: USMPDI-1028SC-A-02-03-210504

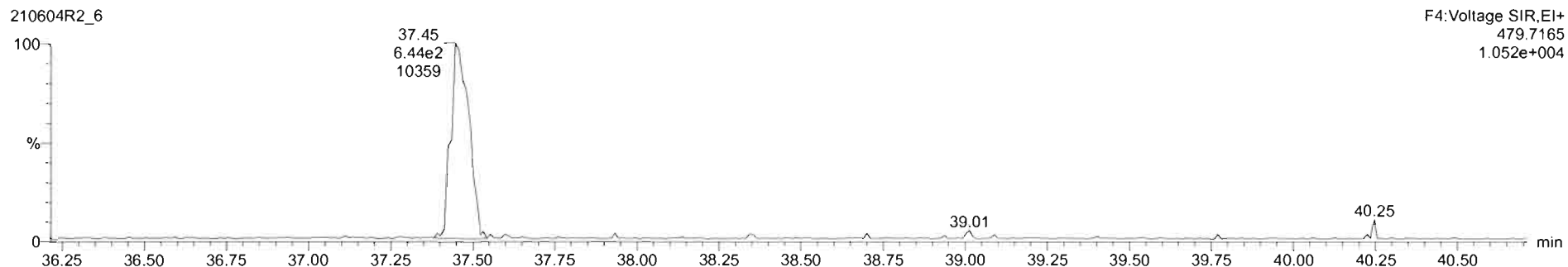
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13C-1,2,3,4,6,7,8-HpCDF

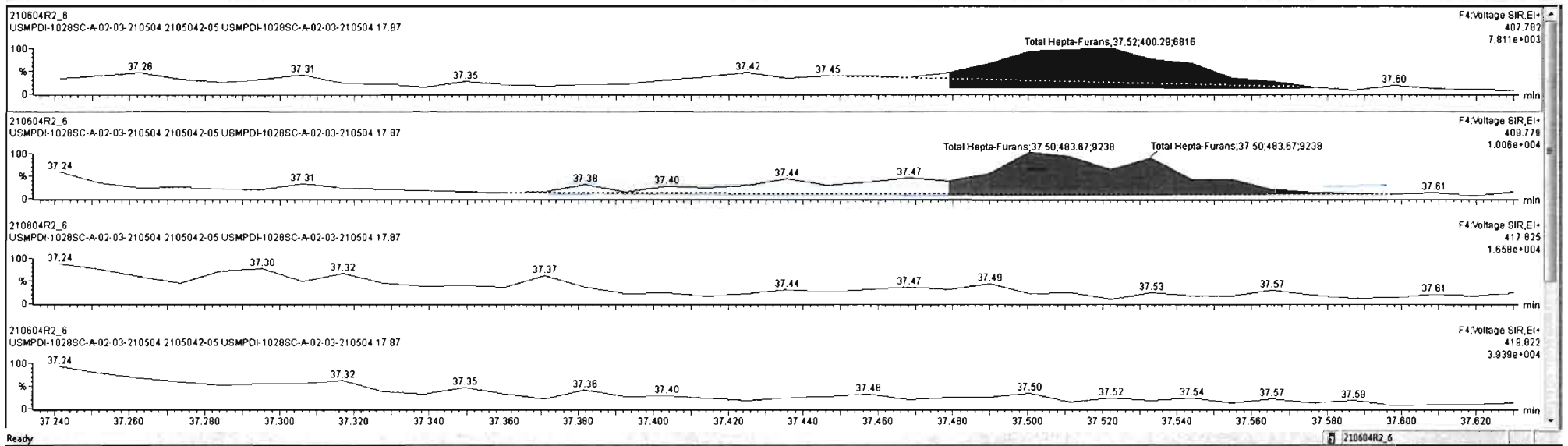


DPE4



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				1.0481	10.004			59.2		0.162	59.5
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.09	2.471e4	2.504e4	0.99	NO	21.502	21.502
2 Total Hepta-Furans	37.52	4.003e2	4.837e2	0.83	YES	0.36154	0.00000
3 Total Hepta-Furans	37.72	3.753e4	3.613e4	1.04	NO	33.916	33.916
4 1,2,3,4,7,8,9-HpCDF	38.99	3.814e3	3.745e3	1.02	NO	3.7330	3.7330

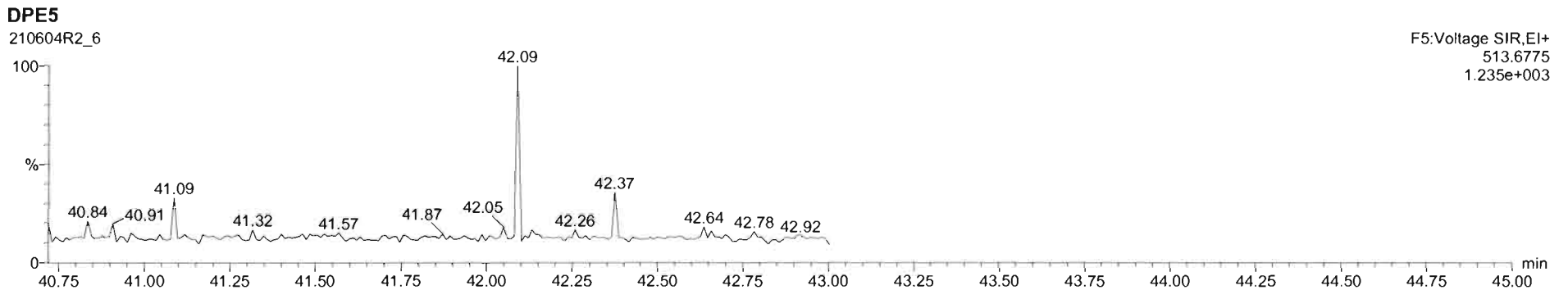
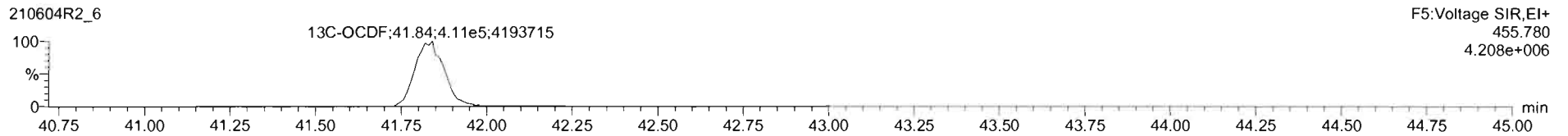
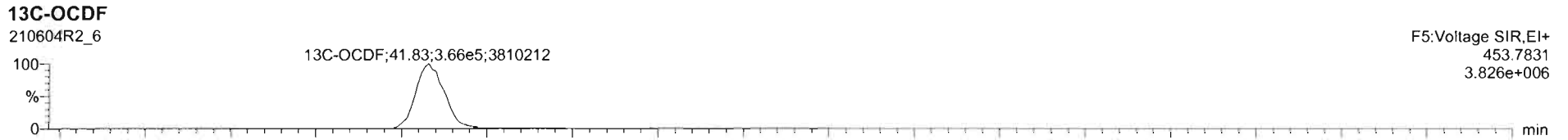
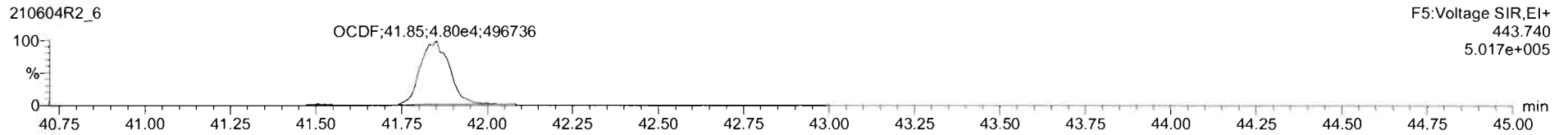
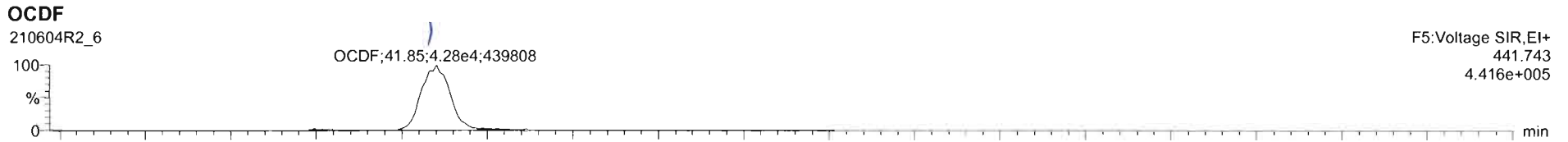


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Name: 210604R2_6, Date: 04-Jun-2021, Time: 14:16:55, ID: 2105042-05 USMPDI-1028SC-A-02-03-210504 17.87, Description: USMPDI-1028SC-A-02-03-210504

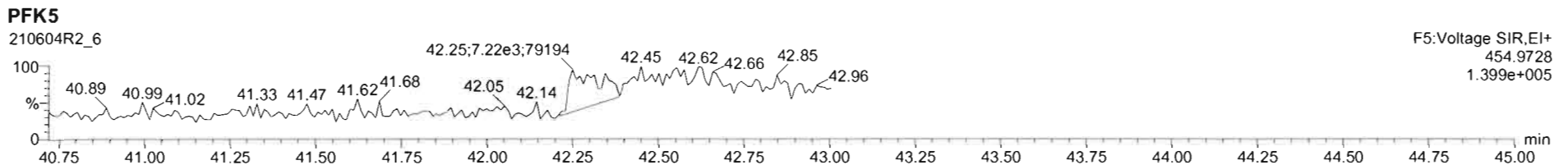
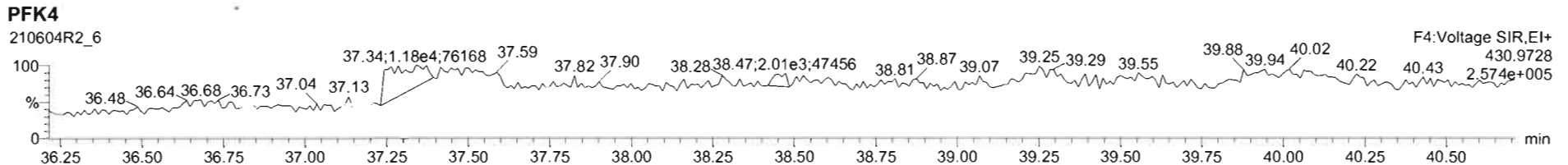
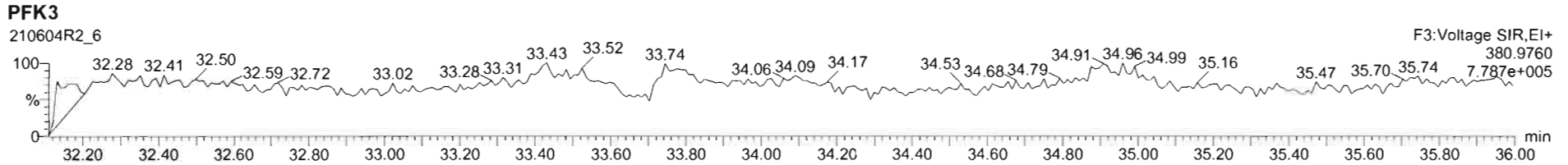
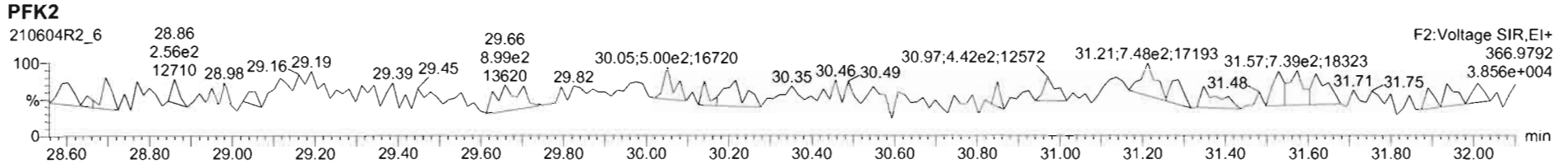
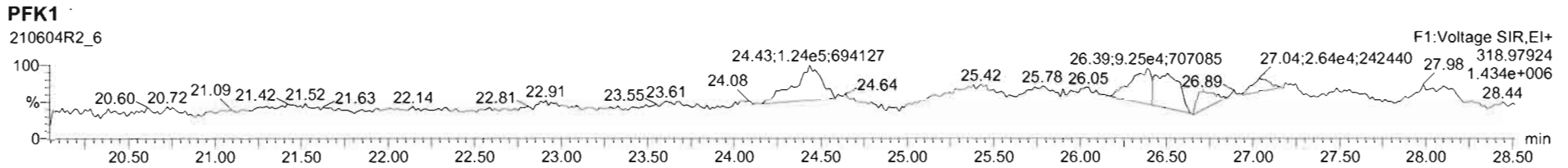


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Dataset: U:\VG12.PRO\Results\210604R2\210604R2_7.qld

Last Altered: Tuesday, June 15, 2021 09:12:45 Pacific Daylight Time
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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.929	10.008	26.728		1.001				0.0337	
2	2 1,2,3,7,8-PeCDD			NO	0.826	10.008	31.151		1.001				0.101	
3	3 1,2,3,4,7,8-HxCDD			NO	0.972	10.008	34.508		1.001				0.0832	
4	4 1,2,3,6,7,8-HxCDD	6.58e2	1.56	YES	0.877	10.008	34.634	34.62	1.001	1.000	0.28120		0.0864	0.246
5	5 1,2,3,7,8,9-HxCDD			NO	0.874	10.008	34.916		1.000				0.0909	
6	6 1,2,3,4,6,7,8-HpCDD	1.10e4	1.10	NO	0.899	10.008	38.300	38.30	1.000	1.000	6.7639		0.188	6.76
7	7 OCDD	8.20e4	0.88	NO	0.852	10.008	41.335	41.34	1.000	1.000	68.303		0.600	68.3
8	8 2,3,7,8-TCDF	2.06e3	0.72	NO	0.747	10.008	26.063	26.08	1.000	1.001	0.42729		0.0449	0.427
9	9 1,2,3,7,8-PeCDF	2.10e3	1.44	NO	0.877	10.008	29.917	29.94	1.000	1.001	0.64257		0.194	0.643
10	10 2,3,4,7,8-PeCDF	1.53e3	1.46	NO	0.962	10.008	30.961	30.95	1.001	1.001	0.33652		0.193	0.337
11	11 1,2,3,4,7,8-HxCDF	4.95e3	1.14	NO	0.920	10.008	33.555	33.57	1.000	1.001	1.6675		0.0681	1.67
12	12 1,2,3,6,7,8-HxCDF	1.57e3	1.29	NO	0.936	10.008	33.711	33.71	1.001	1.001	0.49792		0.0635	0.498
13	13 2,3,4,6,7,8-HxCDF	4.17e2	1.53	YES	0.973	10.008	34.403	34.42	1.001	1.001	0.14794		0.0780	0.131
14	14 1,2,3,7,8,9-HxCDF	3.10e2	0.91	YES	0.940	10.008	35.472	35.48	1.000	1.001	0.13104		0.0984	0.113
15	15 1,2,3,4,6,7,8-HpCDF	3.84e3	0.97	NO	1.05	10.008	37.120	37.11	1.000	1.000	1.8519		0.0750	1.85
16	16 1,2,3,4,7,8,9-HpCDF	6.14e2	1.03	NO	1.05	10.008	38.950	38.96	1.000	1.001	0.33161		0.0762	0.332
17	17 OCDF	5.30e3	0.78	NO	0.771	10.008	41.671	41.67	1.000	1.000	3.8641		0.108	3.86
18	18 13C-2,3,7,8-TCDD	7.85e5	0.80	NO	1.10	10.008	26.671	26.70	1.027	1.028	158.79	79.5	0.106	
19	19 13C-1,2,3,7,8-PeCDD	5.60e5	0.63	NO	0.864	10.008	31.052	31.12	1.196	1.198	144.70	72.4	0.274	
20	20 13C-1,2,3,4,7,8-HxCDD	4.69e5	1.31	NO	0.746	10.008	34.485	34.49	1.014	1.014	161.35	80.7	0.394	
21	21 13C-1,2,3,6,7,8-HxCDD	5.33e5	1.26	NO	0.847	10.008	34.604	34.61	1.017	1.018	161.74	80.9	0.347	
22	22 13C-1,2,3,7,8,9-HxCDD	5.23e5	1.28	NO	0.868	10.008	34.904	34.91	1.026	1.026	154.86	77.5	0.339	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.63e5	1.04	NO	0.664	10.008	38.254	38.29	1.125	1.126	140.34	70.2	0.480	
24	24 13C-OCDD	5.63e5	0.88	NO	0.561	10.008	41.204	41.33	1.211	1.215	257.85	64.5	0.692	
25	25 13C-2,3,7,8-TCDF	1.29e6	0.78	NO	1.09	10.008	26.060	26.06	1.003	1.003	170.64	85.4	0.0776	
26	26 13C-1,2,3,7,8-PeCDF	7.46e5	1.59	NO	0.809	10.008	29.782	29.91	1.147	1.152	133.30	66.7	1.22	
27	27 13C-2,3,4,7,8-PeCDF	9.43e5	1.54	NO	0.803	10.008	30.743	30.94	1.184	1.191	169.84	85.0	1.23	
28	28 13C-1,2,3,4,7,8-HxCDF	6.44e5	0.50	NO	1.01	10.008	33.557	33.54	0.987	0.986	163.69	81.9	0.475	
29	29 13C-1,2,3,6,7,8-HxCDF	6.73e5	0.51	NO	1.07	10.008	33.686	33.69	0.990	0.990	161.02	80.6	0.447	
30	30 13C-2,3,4,6,7,8-HxCDF	5.79e5	0.51	NO	0.910	10.008	34.377	34.38	1.011	1.011	163.47	81.8	0.528	
31	31 13C-1,2,3,7,8,9-HxCDF	5.02e5	0.50	NO	0.828	10.008	35.455	35.46	1.042	1.042	155.80	78.0	0.579	

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32	32 13C-1,2,3,4,6,7,8-HpCDF	3.96e5	0.43	NO	0.661	10.008	37.064	37.10	1.090	1.091	153.73	76.9	0.532	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.54e5	0.44	NO	0.566	10.008	38.826	38.94	1.141	1.145	160.67	80.4	0.622	
34	34 13C-OCDF	7.10e5	0.88	NO	0.663	10.008	41.591	41.66	1.223	1.225	275.42	68.9	0.596	
35	35 37Cl-2,3,7,8-TCDD	8.80e5			2.07	10.008	26.871	26.70	1.035	1.028	94.965	119	0.0292	
36	36 13C-1,2,3,4-TCDD	8.95e5	0.78	NO	1.00	10.008	26.070	25.97	1.000	1.000	199.83	100	0.117	
37	37 13C-1,2,3,4-TCDF	1.38e6	0.80	NO	1.00	10.008	24.760	24.64	1.000	1.000	199.83	100	0.0849	
38	38 13C-1,2,3,4,6,9-HxCDF	7.78e5	0.51	NO	1.00	10.008	34.040	34.02	1.000	1.000	199.83	100	0.480	
39	39 Total Tetra-Dioxins				0.929	10.008	24.620		0.000		0.13247		0.0337	0.172
40	40 Total Penta-Dioxins				0.826	10.008	29.960		0.000				0.0484	
41	41 Total Hexa-Dioxins				0.877	10.008	33.635		0.000		0.82849		0.0903	1.42
42	42 Total Hepta-Dioxins				0.899	10.008	37.640		0.000		16.625		0.188	16.6
43	43 Total Tetra-Furans				0.747	10.008	23.610		0.000		0.84178		0.0449	0.939
44	44 1st Func. Penta-Furans				0.877	10.008	27.620		0.000		0.50359		0.0132	0.504
45	45 Total Penta-Furans				0.877	10.008	29.275		0.000		1.6290		0.204	1.63
46	46 Total Hexa-Furans				0.973	10.008	33.555		0.000		4.1372		0.0727	4.45
47	47 Total Hepta-Furans				1.05	10.008	37.835		0.000		4.8822		0.0754	4.88

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_7.qld

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Printed: Tuesday, June 15, 2021 09:14:33 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R2_7, Date: 04-Jun-2021, Time: 15:02:11, ID: 2105042-06 USMPDI-031SC-A-01-02-210504 19.27, Description: USMPDI-031SC-A-01-02-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	1.599e3	1.673e3	8.426e1	8.255e1	1.02	YES	0.000e0	0.00000	0.040016	0.0183
2	Total Tetra-Dioxins	26.43	2.768e3	4.055e3	2.020e2	2.817e2	0.72	NO	4.837e2	0.13247	0.13247	0.0337

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.79	1.961e4	1.536e4	1.045e3	8.032e2	1.30	NO	1.849e3	0.82849	0.82849	0.0903
2	Total Hexa-Dioxins	33.72	1.676e4	1.092e4	5.404e2	3.475e2	1.56	YES	0.000e0	0.00000	0.34884	0.0903
3	1,2,3,6,7,8-HxCDD	34.62	7.729e3	4.347e3	4.013e2	2.567e2	1.56	YES	6.580e2	0.00000	0.24573	0.0884

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.44	1.479e5	1.309e5	8.302e3	7.789e3	1.07	NO	1.609e4	9.8610	9.8610	0.188
2	1,2,3,4,6,7,8-HpCDD	38.30	9.945e4	9.286e4	5.773e3	5.265e3	1.10	NO	1.104e4	6.7639	6.7639	0.188

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	22.54	3.684e3	4.423e3	2.735e2	3.271e2	0.84	NO	6.005e2	0.12462	0.12462	0.0449
2	Total Tetra-Furans	23.33	3.969e3	3.624e3	2.706e2	2.641e2	1.02	YES	0.000e0	0.00000	0.097014	0.0449
3	Total Tetra-Furans	25.17	8.859e3	1.051e4	5.812e2	8.158e2	0.71	NO	1.397e3	0.28987	0.28987	0.0449
4	2,3,7,8-TCDF	26.08	1.349e4	2.065e4	8.627e2	1.196e3	0.72	NO	2.059e3	0.42729	0.42729	0.0449

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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.45	1.976e4	1.302e4	1.161e3	7.066e2	1.64	NO	1.867e3	0.50359	0.50359	0.0132

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	29.00	1.987e4	9.272e3	1.009e3	6.138e2	1.64	NO	1.622e3	0.43756	0.43756	0.204
2	1,2,3,7,8-PeCDF	29.94	2.793e4	2.084e4	1.241e3	8.638e2	1.44	NO	2.105e3	0.64257	0.64257	0.194
3	Total Penta-Furans	30.17	9.812e3	5.605e3	4.493e2	3.381e2	1.33	NO	7.874e2	0.21238	0.21238	0.204
4	2,3,4,7,8-PeCDF	30.95	1.719e4	1.032e4	9.064e2	6.217e2	1.46	NO	1.528e3	0.33652	0.33652	0.193

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.24	6.219e3	7.118e3	3.735e2	3.028e2	1.23	NO	6.763e2	0.23179	0.23179	0.0727
2	Total Hexa-Furans	32.42	2.231e4	2.070e4	1.161e3	1.006e3	1.15	NO	2.167e3	0.74265	0.74265	0.0727
3	Total Hexa-Furans	33.08	2.698e4	2.693e4	1.593e3	1.317e3	1.21	NO	2.910e3	0.99736	0.99736	0.0727
4	1,2,3,4,7,8-HxCDF	33.57	4.328e4	3.897e4	2.640e3	2.308e3	1.14	NO	4.947e3	1.6675	1.6675	0.0681
5	1,2,3,6,7,8-HxCDF	33.71	1.334e4	1.112e4	8.828e2	6.867e2	1.29	NO	1.570e3	0.49792	0.49792	0.0635
6	2,3,4,6,7,8-HxCDF	34.42	4.555e3	3.238e3	2.521e2	1.646e2	1.53	YES	4.167e2	0.00000	0.13091	0.0760
7	1,2,3,7,8,9-HxCDF	35.48	3.741e3	6.480e3	1.477e2	1.619e2	0.91	YES	3.096e2	0.00000	0.11294	0.0984
8	Total Hexa-Furans	35.52	3.382e3	4.342e3	1.190e2	1.570e2	0.76	YES	0.000e0	0.00000	0.073655	0.0727

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.11	2.815e4	2.953e4	1.891e3	1.950e3	0.97	NO	3.841e3	1.8519	1.8519	0.0750
2	Total Hepta-Furans	37.73	4.628e4	4.475e4	2.753e3	2.551e3	1.08	NO	5.303e3	2.6987	2.6987	0.0754
3	1,2,3,4,7,8,9-HpCDF	38.96	5.289e3	5.482e3	3.118e2	3.020e2	1.03	NO	6.139e2	0.33161	0.33161	0.0762

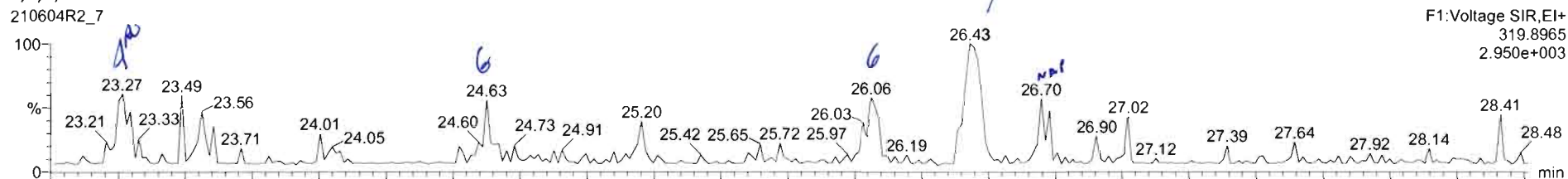
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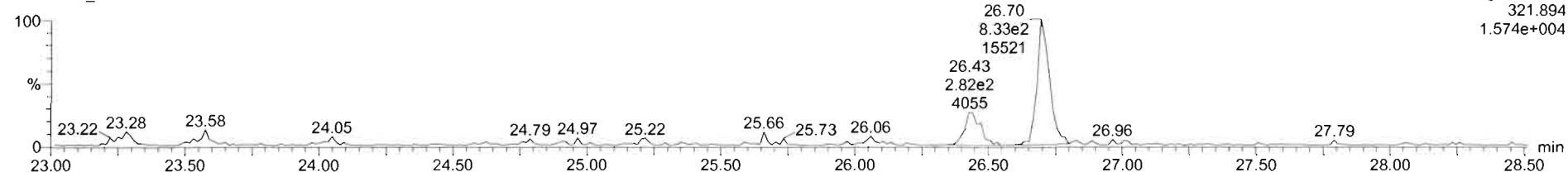
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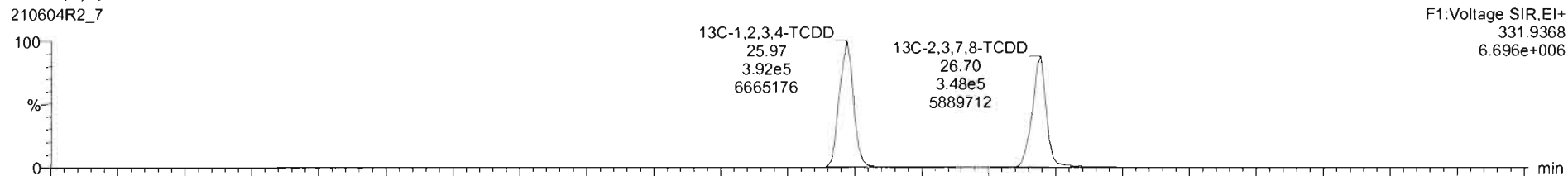
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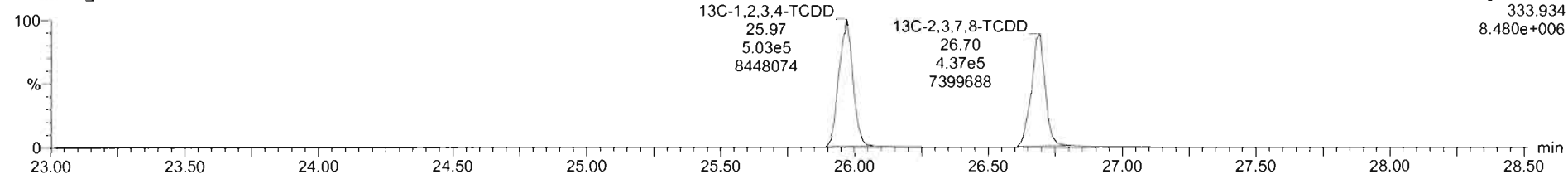
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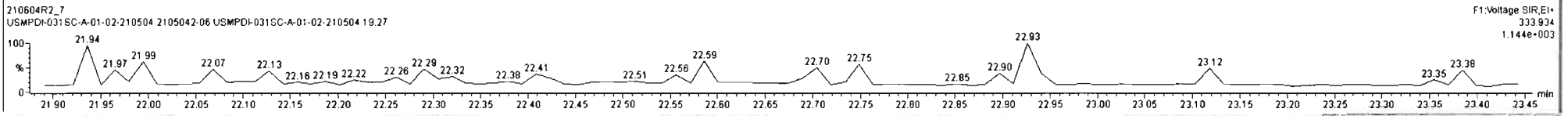
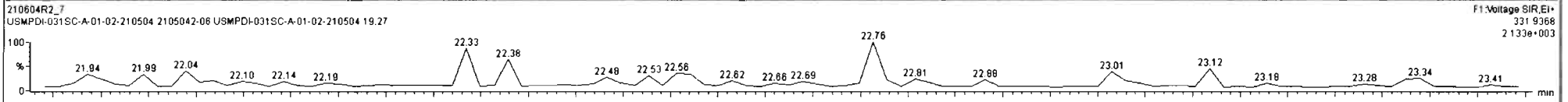
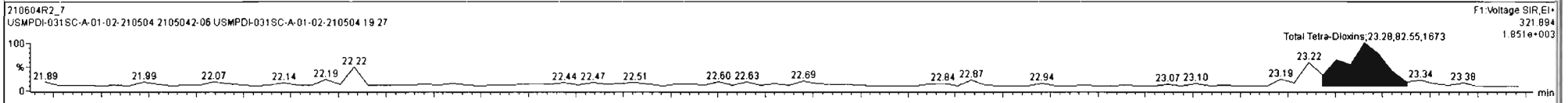
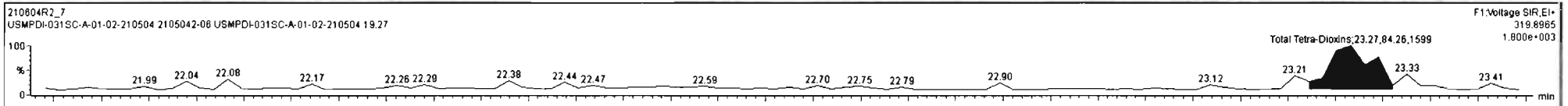


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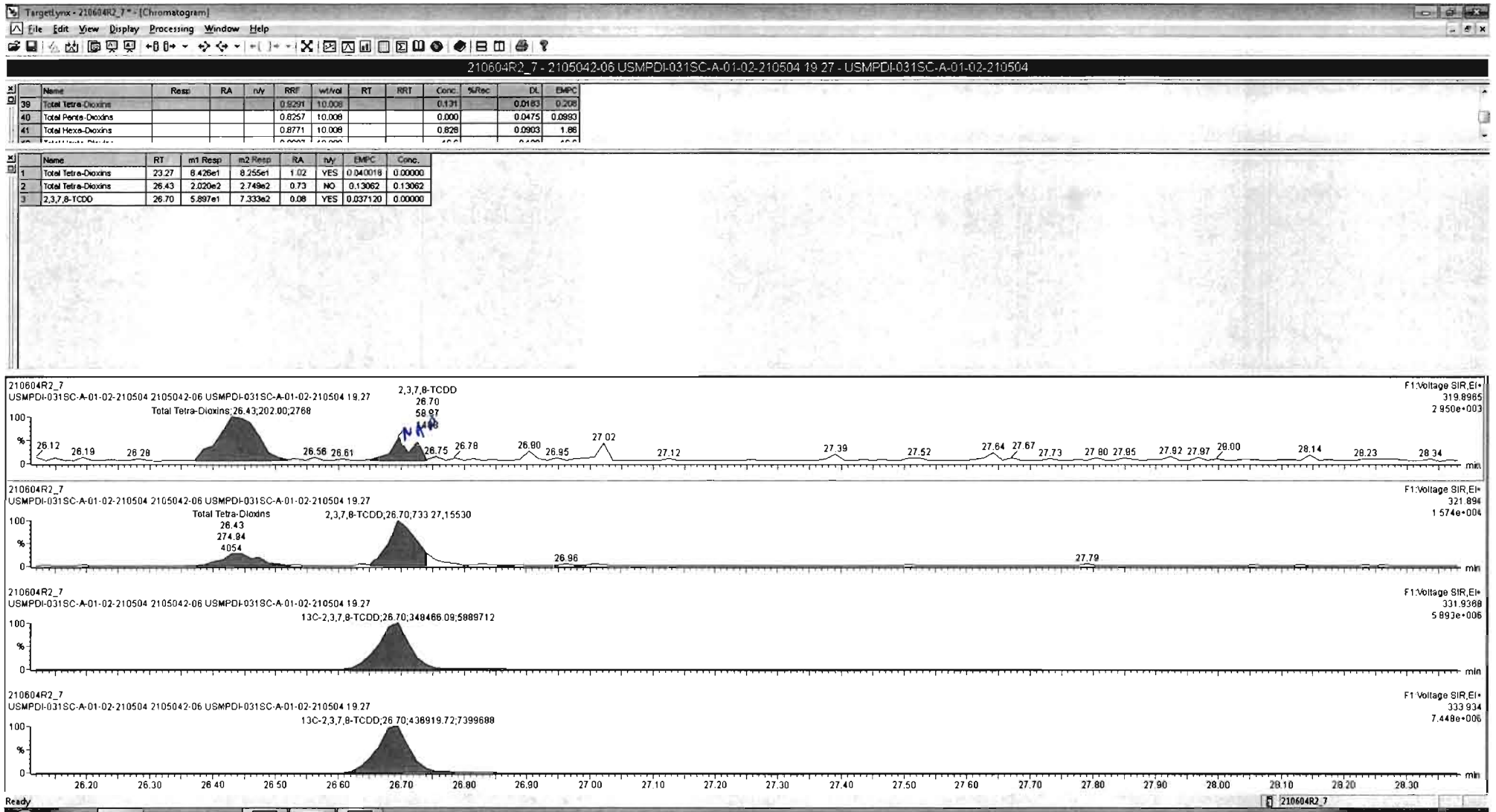


RT	RR1	Conc	%Rec	EL	EMPC
0.624	1.1358	0.131		0.0193	0.208
40	0.8257	10.008	0.000	0.0475	0.0993
41	0.8771	10.008	0.828	0.0903	1.96

Name	RT	m1 Resp	m2 Resp	RA	rv	EMPC	Conc.
1 Total Tetra-Dioxins	23.27	8.426e1	8.255e1	1.02	YES	0.040018	0.00000
2 Total Tetra-Dioxins	26.43	2.020e2	2.749e2	0.73	NO	0.13062	0.13062
3 2,3,7,8-TCDD	26.70	5.897e1	7.333e2	0.08	YES	0.037120	0.00000



Ready 210604R2_7



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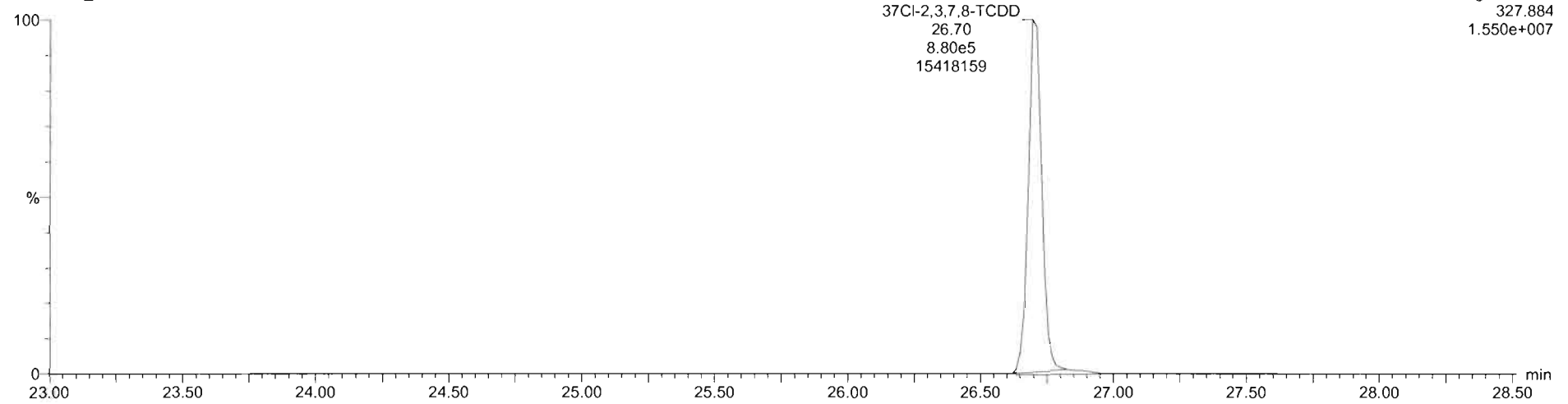
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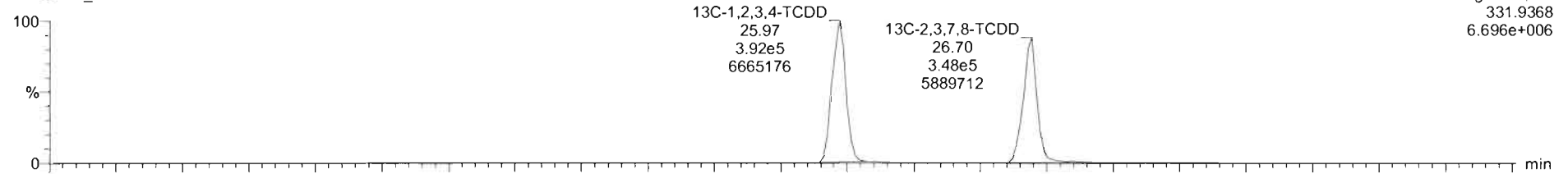
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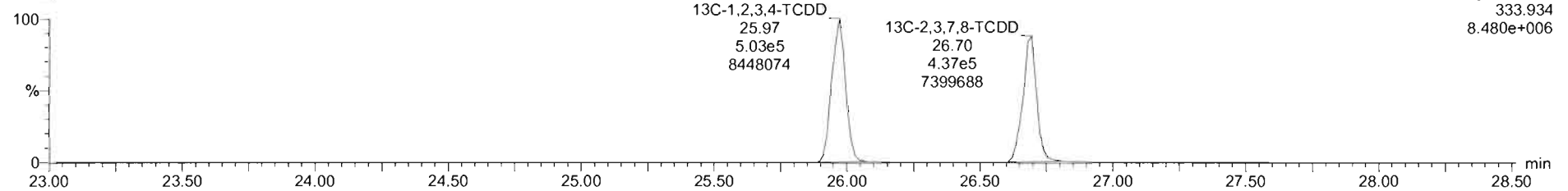


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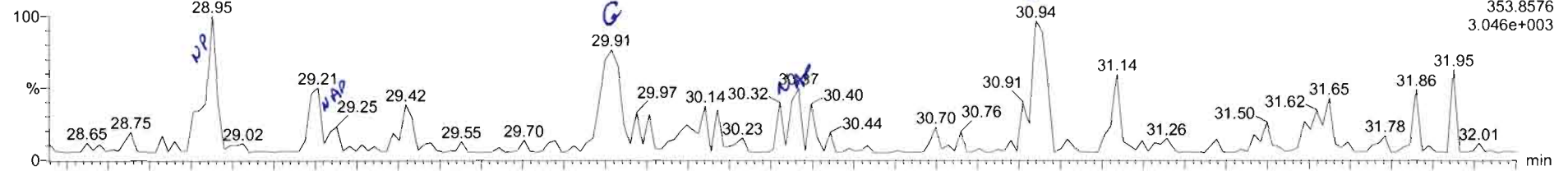
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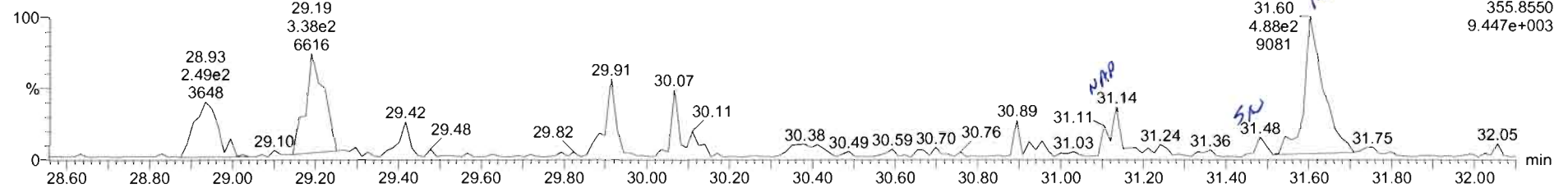
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1,2,3,7,8-PeCDD

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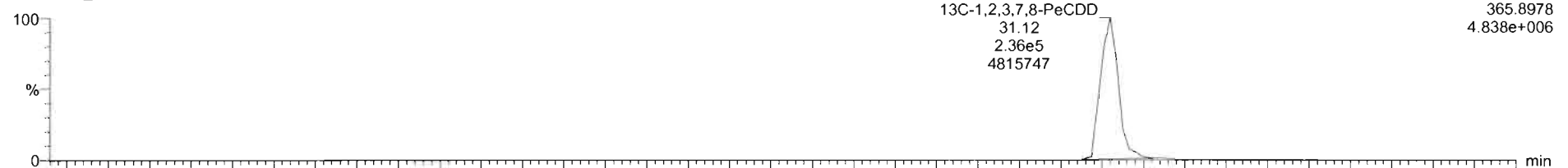


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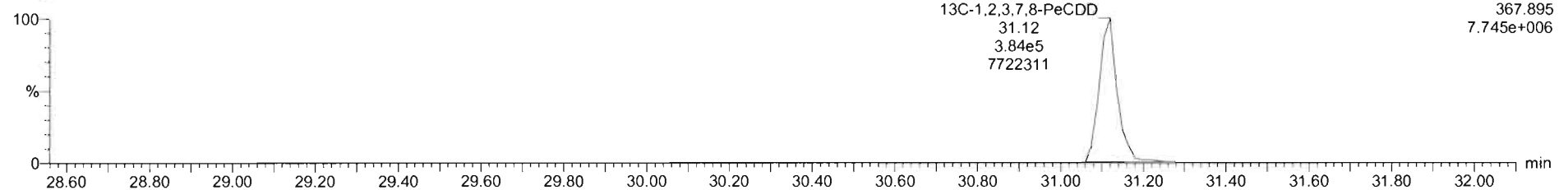


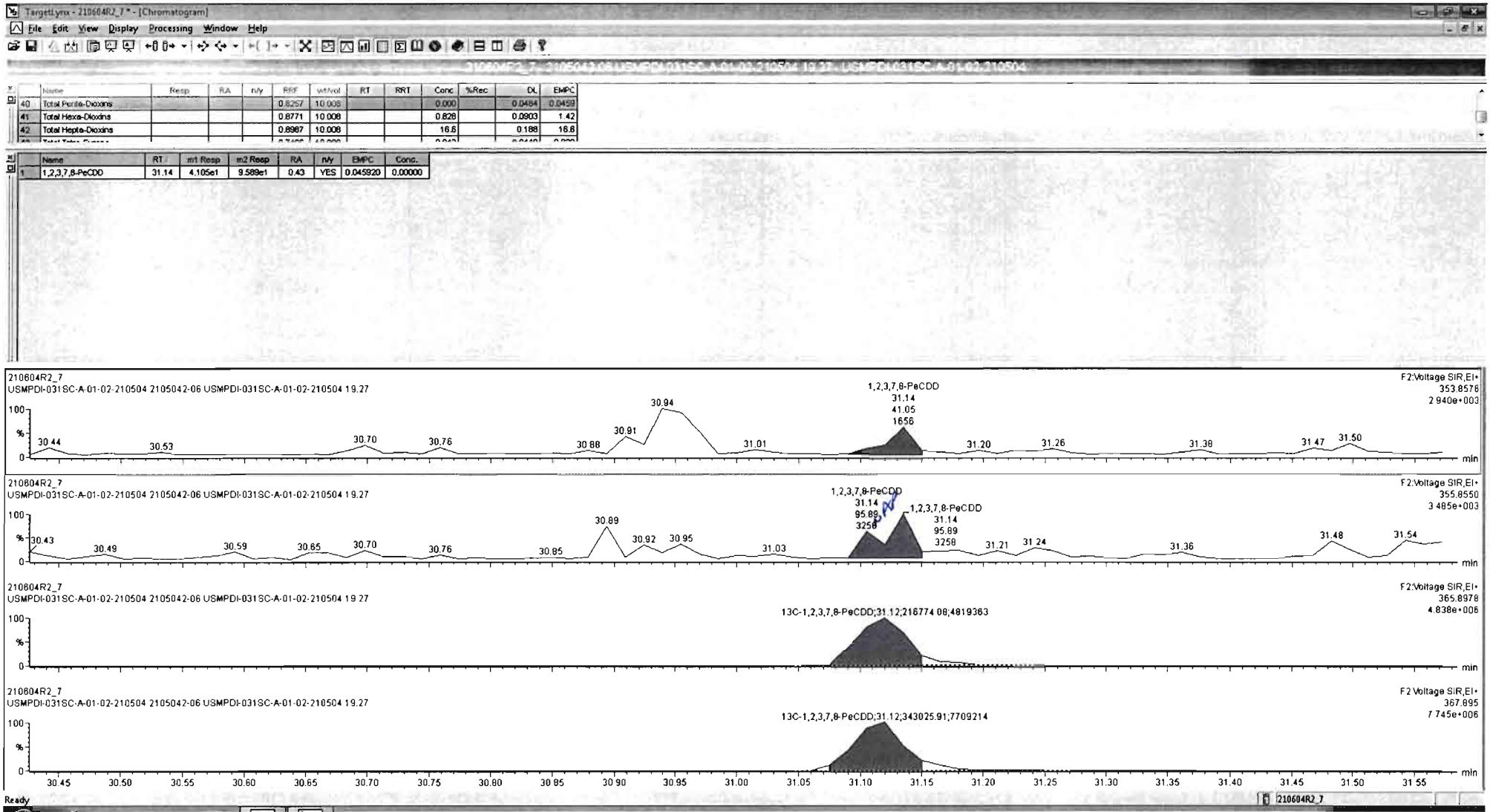
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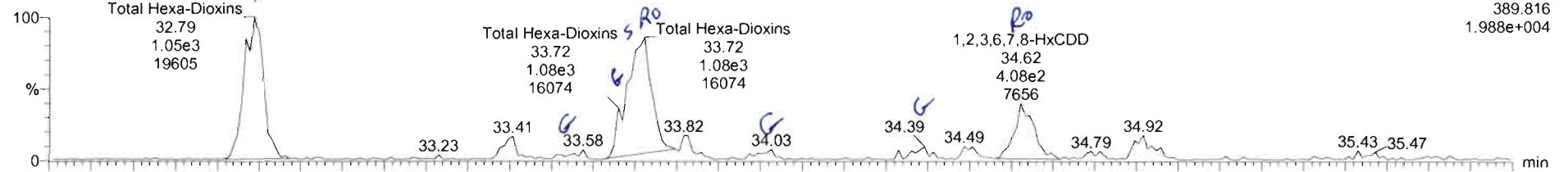
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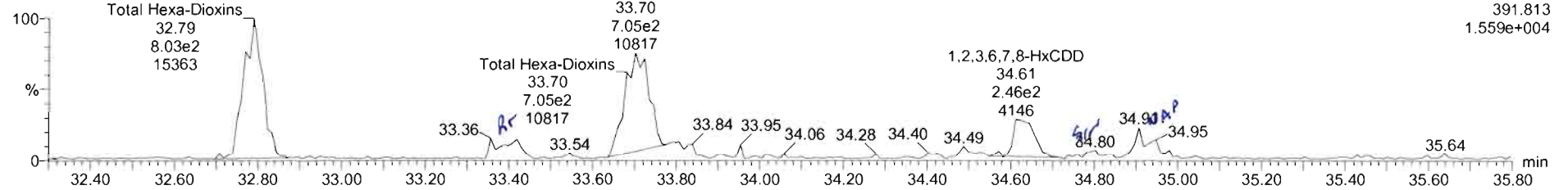
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1,2,3,4,7,8-HxCDD

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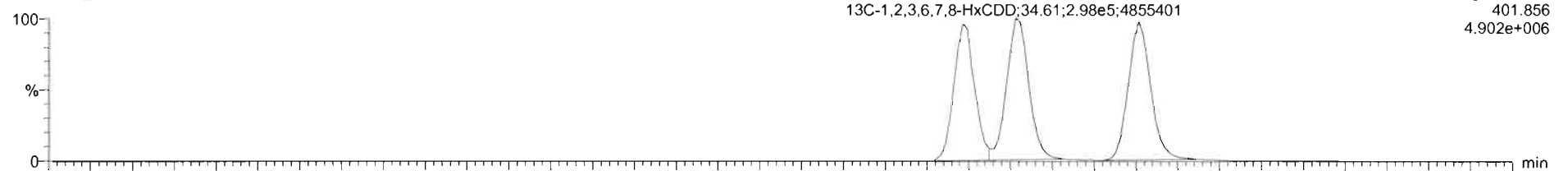


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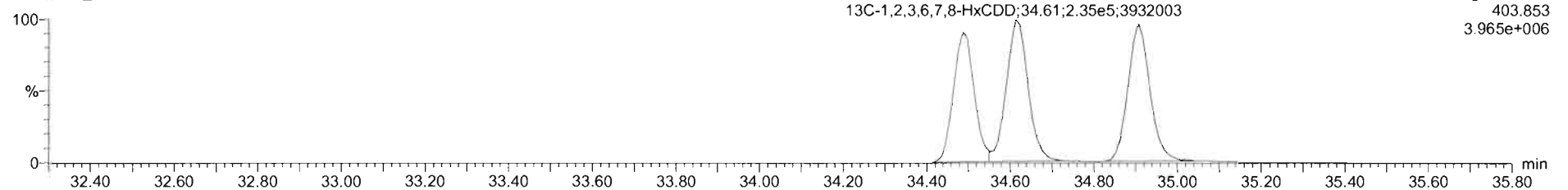


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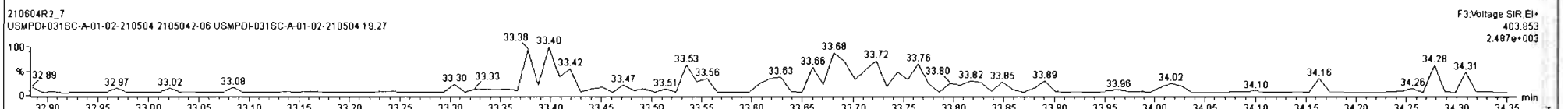
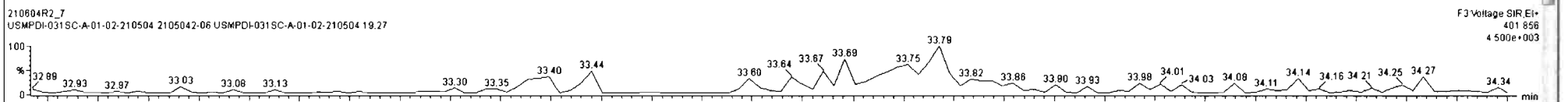
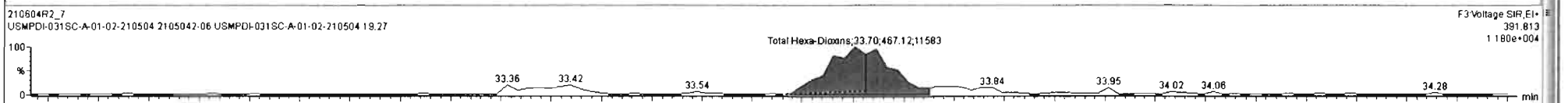
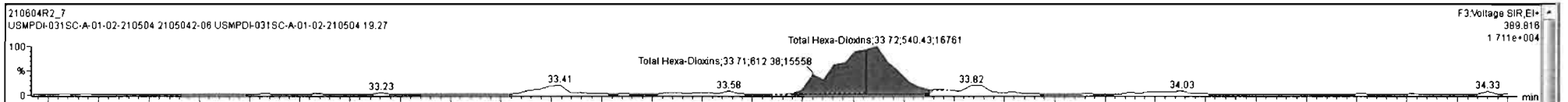
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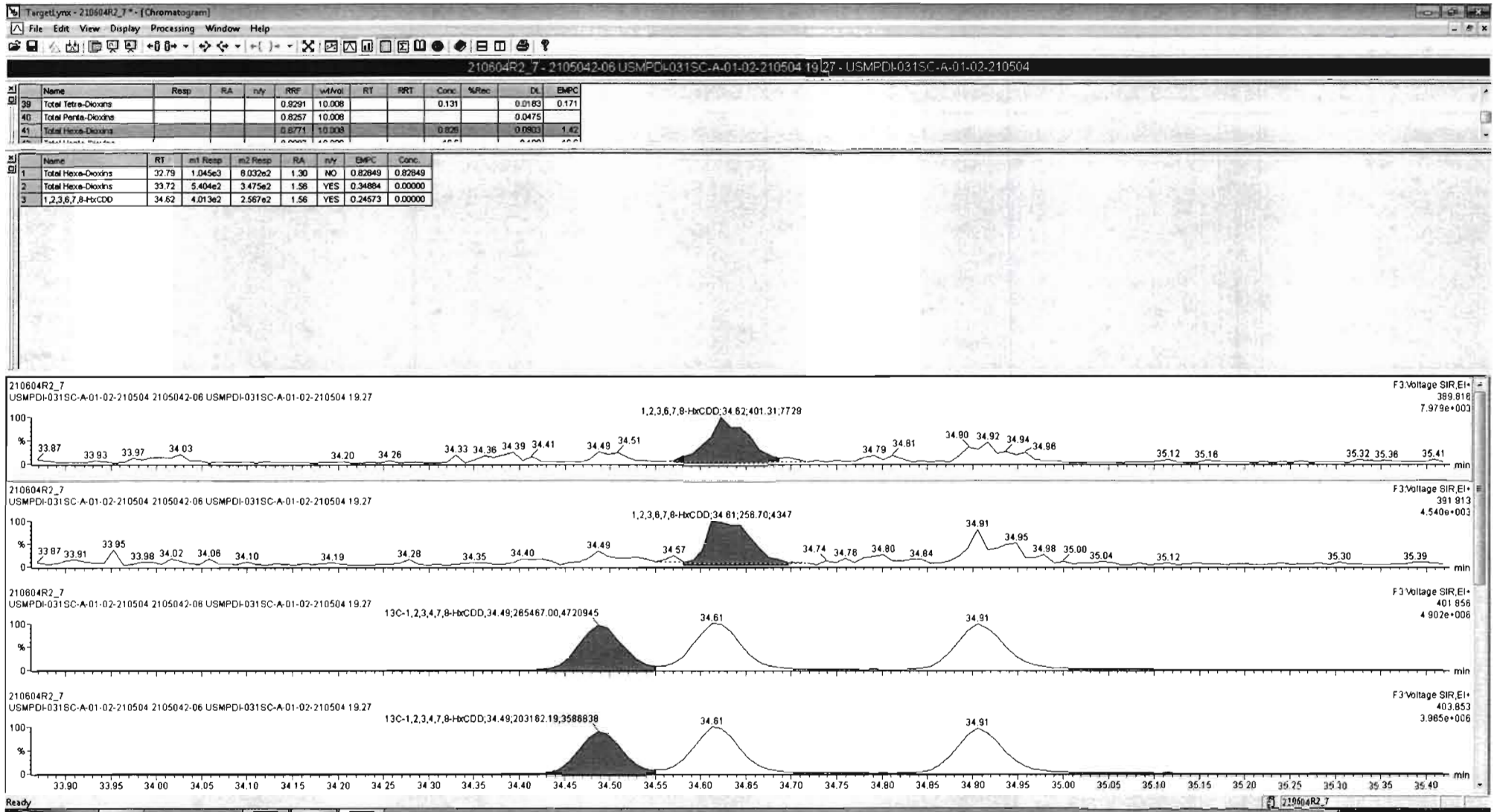


210604R2_7 - 2105042-06 USMPDI-031SC-A-01-02-210504 19.27 - USMPDI-031SC-A-01-02-210504

Name	Resp	RA	n/y	IRF	wt/val	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5291	10.008			0.131		0.0183	0.171
40 Total Penta-Dioxins				0.6257	10.008					0.0475	
41 Total Hexa-Dioxins				0.6771	10.008			0.826		0.0903	1.87

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.79	1.045e3	6.032e2	1.30	NO	0.82849	0.82849
2 Total Hexa-Dioxins	33.71	6.124e2	3.475e2	1.76	YES	0.34884	0.00000
3 Total Hexa-Dioxins	33.72	5.404e2	4.671e2	1.16	NO	0.45154	0.00000
4 1,2,3,6,7,8-HxCDD	34.62	4.013e2	2.567e2	1.56	YES	0.24573	0.00000





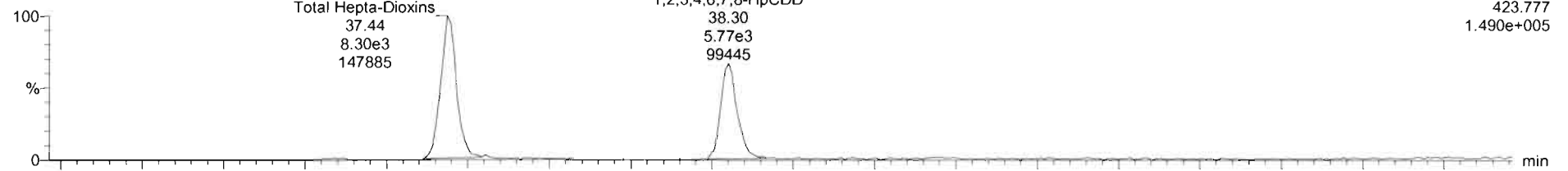
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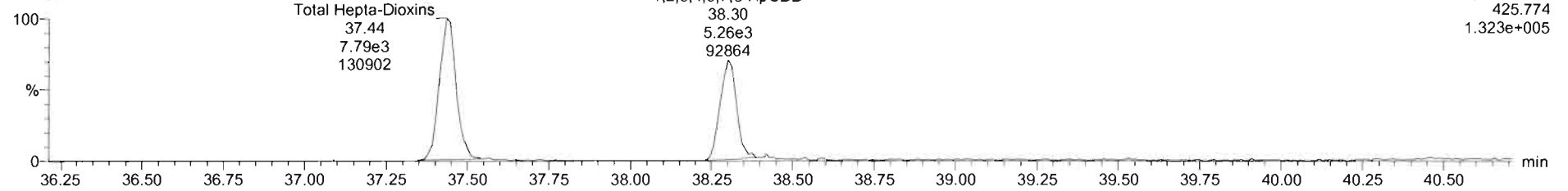
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1,2,3,4,6,7,8-HpCDD

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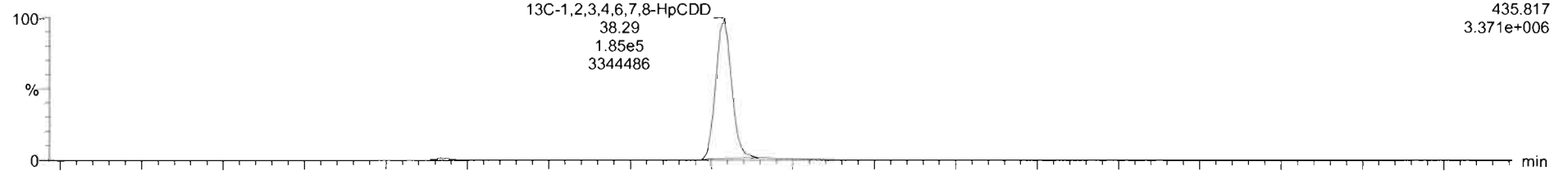


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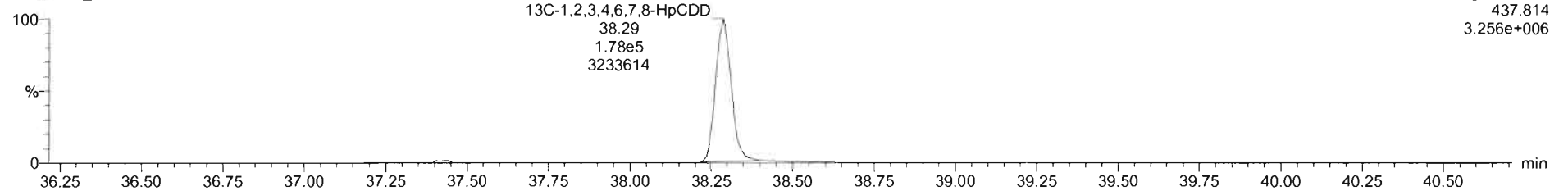


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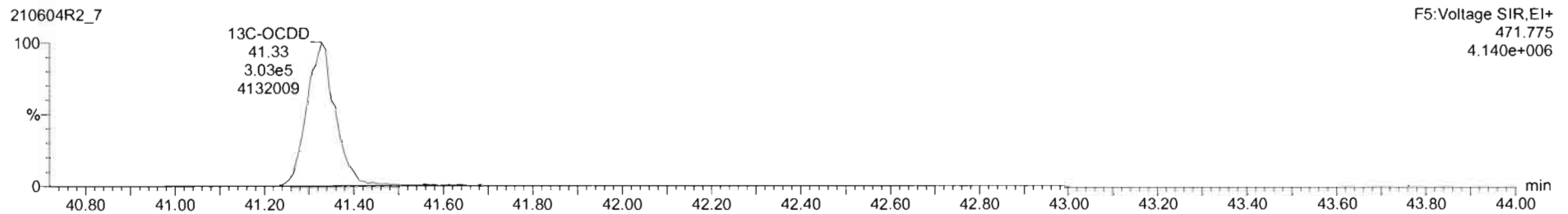
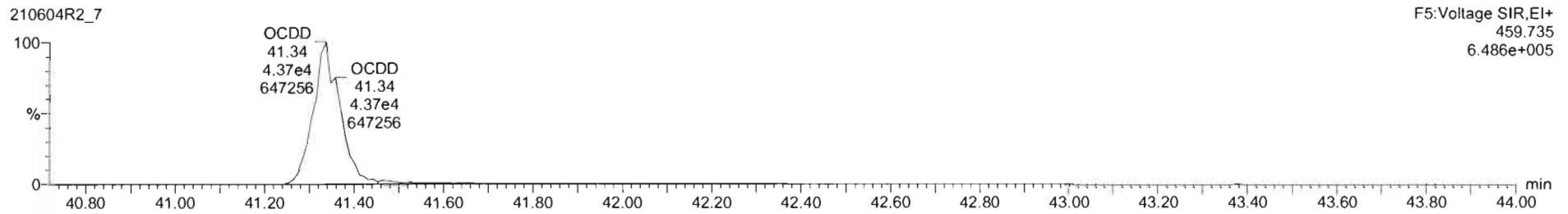
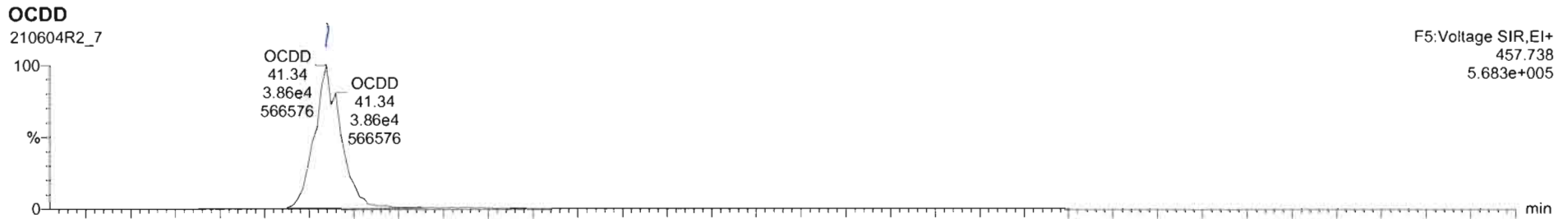


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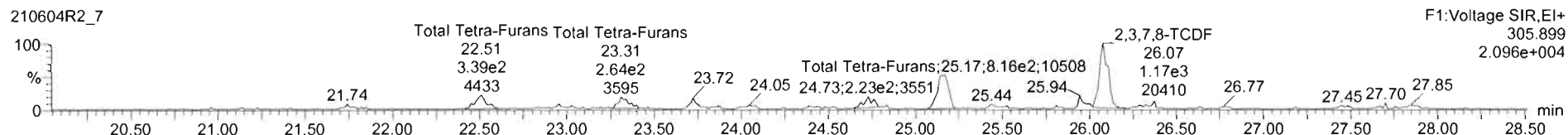
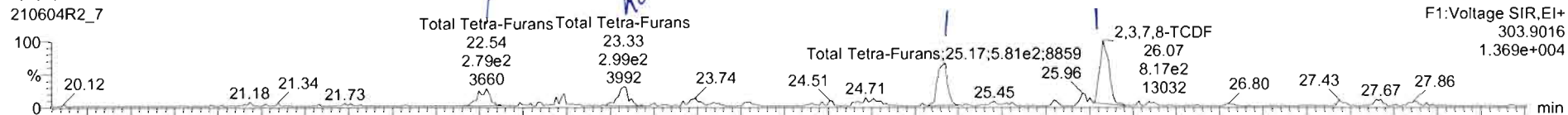


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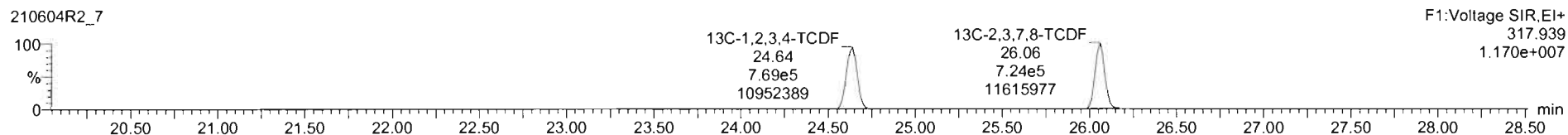
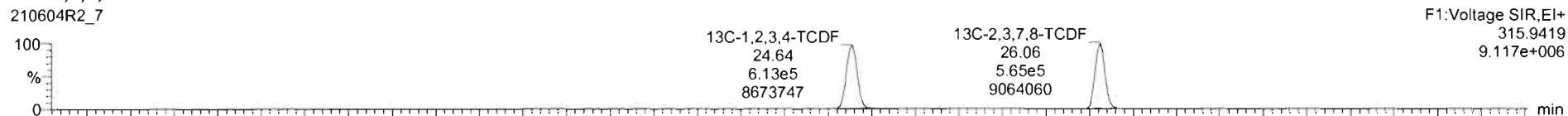
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Printed: Saturday, June 05, 2021 10:21:37 AM Pacific Daylight Time

Name: 210604R2_7, Date: 04-Jun-2021, Time: 15:02:11, ID: 2105042-06 USMPDI-031SC-A-01-02-210504 19.27, Description: USMPDI-031SC-A-01-02-210504

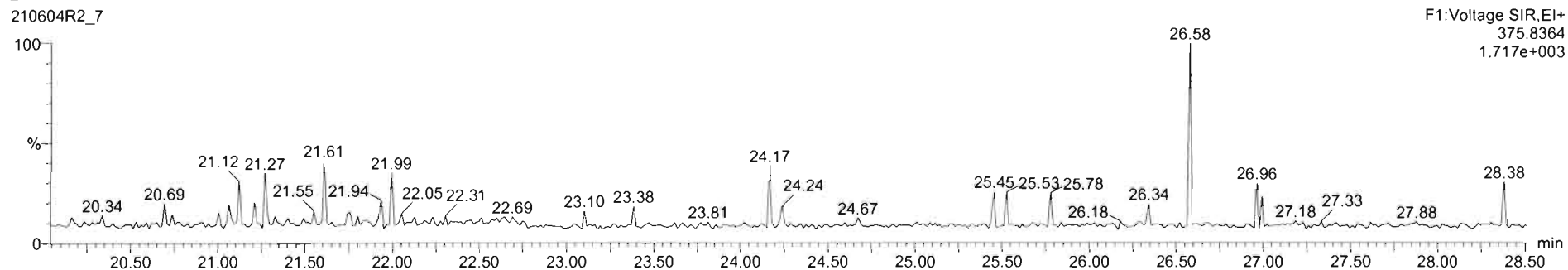
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



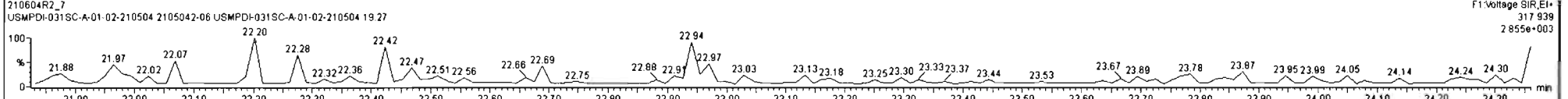
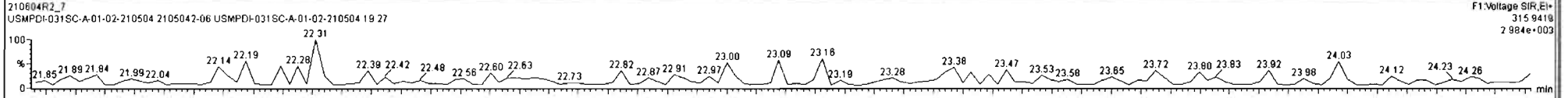
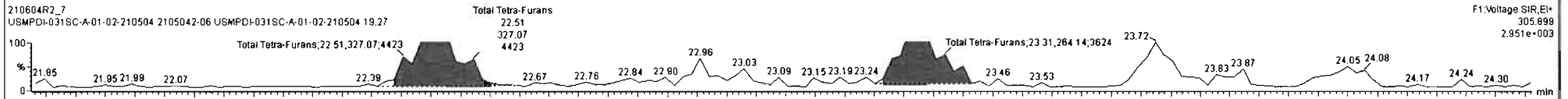
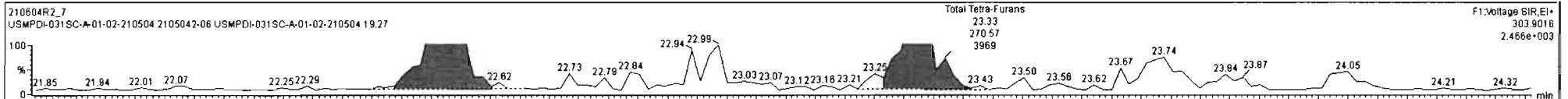
DPE1



210604R2_7 - 2105042-06 USMPDI-031SC-A-01-02-210504 19 27 - USMPDI-031SC-A-01-02-210504

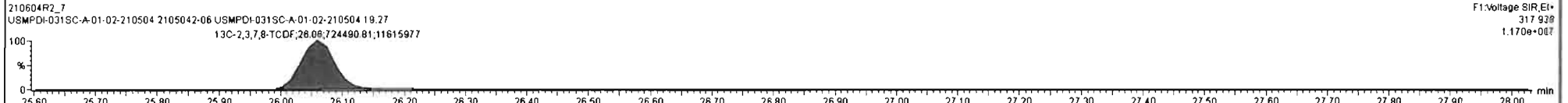
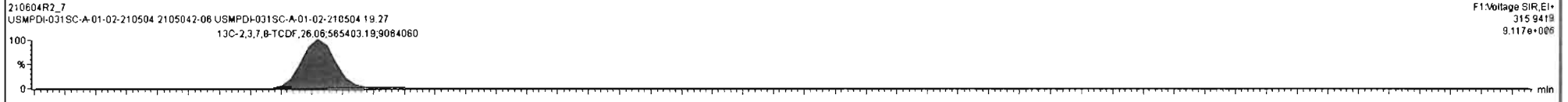
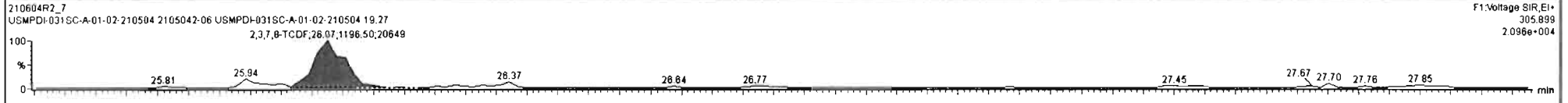
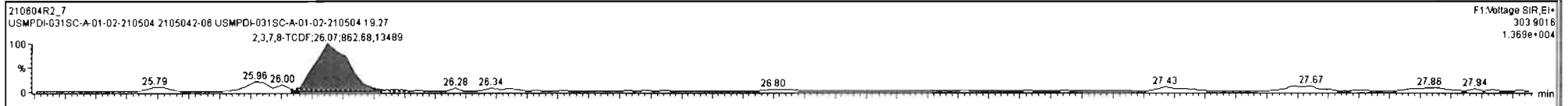
Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.008			0.042		0.0446	0.939
44 1st Func. Penta-Furans				0.8771	10.008			0.504		0.0132	0.504
45 Total Penta-Furans				0.8771	10.008			1.60		0.204	1.60

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	22.54	2.735e2	3.271e2	0.84	NO	0.12462	0.12462
2 Total Tetra-Furans	23.33	2.706e2	2.641e2	1.02	YES	0.097014	0.00000
3 Total Tetra-Furans	25.17	5.812e2	8.158e2	0.71	NO	0.28987	0.28987
4 2,3,7,8-TCDF	26.07	8.627e2	1.186e3	0.72	NO	0.42729	0.42729



#	Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.000			0.842		0.0449	0.930
44	1st Func. Penta-Furans				0.8771	10.000			0.504		0.0132	0.504
45	Total Penta-Furans				0.8771	10.000			1.60		0.204	1.60

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	22.54	2.735e2	3.271e2	0.84	NO	0.12462	0.12462
2	Total Tetra-Furans	23.33	2.706e2	2.641e2	1.02	YES	0.097014	0.00000
3	Total Tetra-Furans	25.17	5.812e2	8.158e2	0.71	NO	0.28987	0.28987
4	2,3,7,8-TCDF	26.07	8.627e2	1.196e3	0.72	NO	0.42729	0.42729



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Printed: Saturday, June 05, 2021 10:21:37 AM Pacific Daylight Time

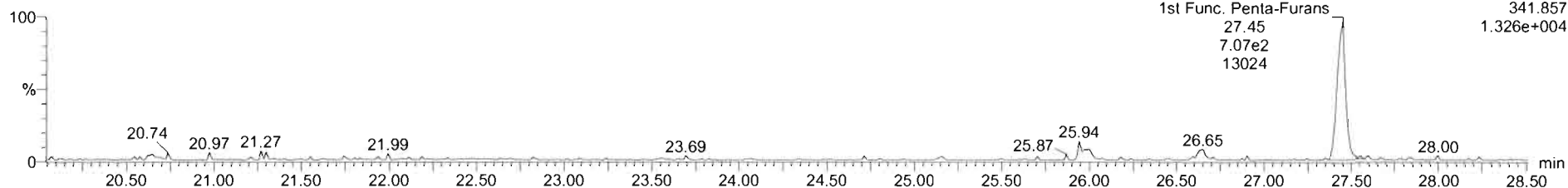
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1st Func. Penta-Furans

210604R2_7

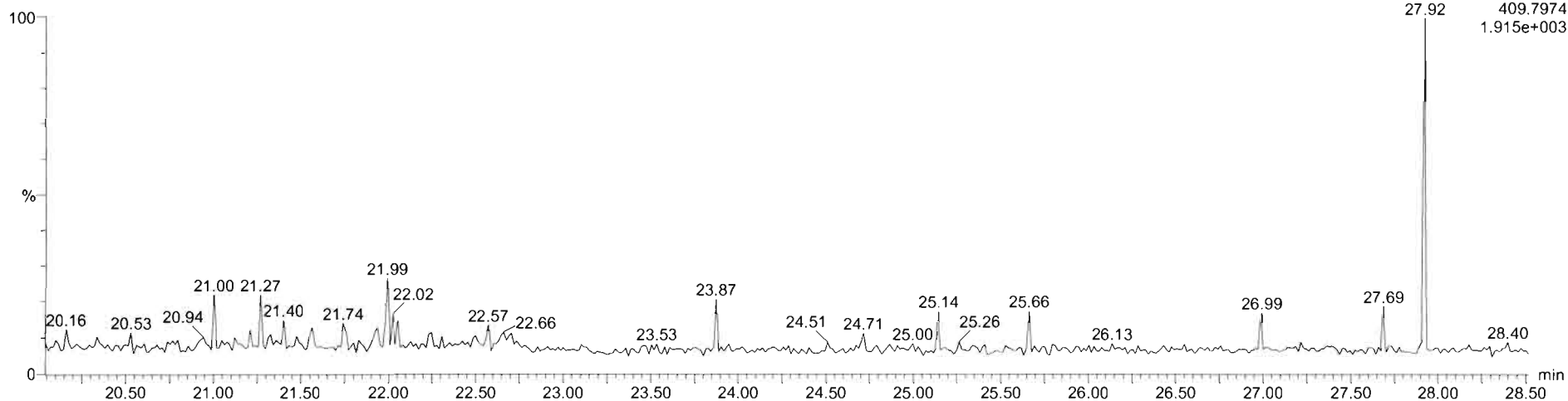


210604R2_7



DPE6

210604R2_7



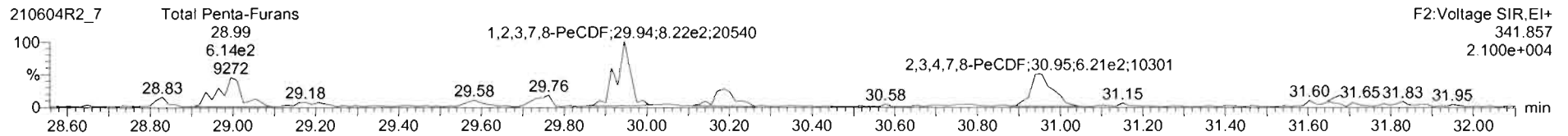
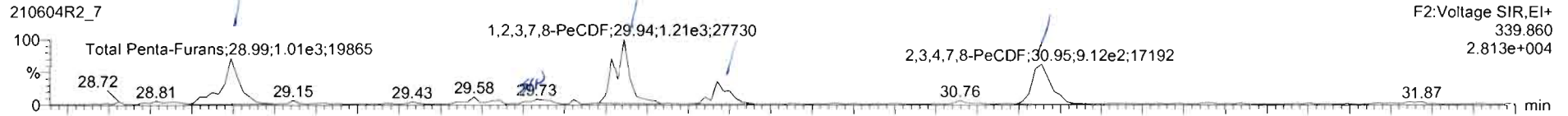
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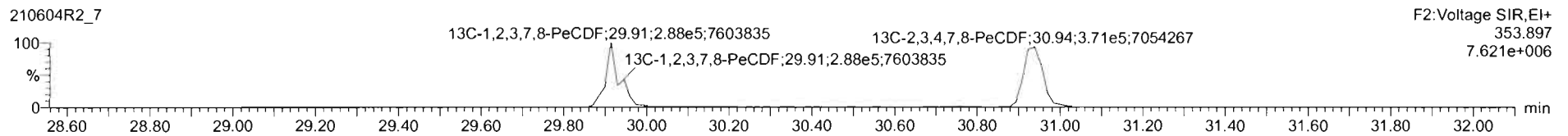
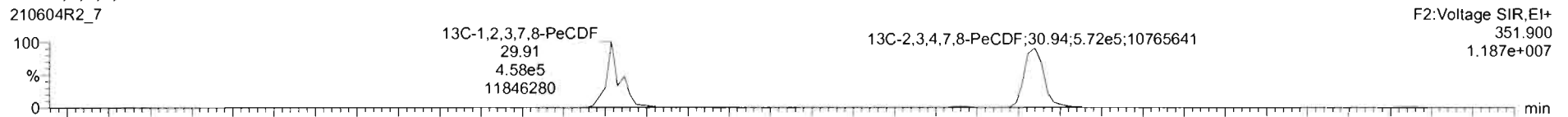
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Name: 210604R2_7, Date: 04-Jun-2021, Time: 15:02:11, ID: 2105042-06 USMPDI-031SC-A-01-02-210504 19.27, Description: USMPDI-031SC-A-01-02-210504

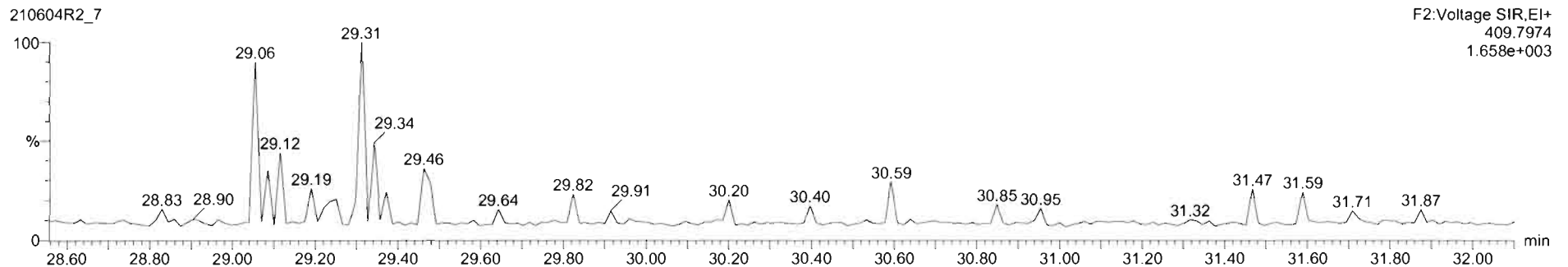
1,2,3,7,8-PeCDF

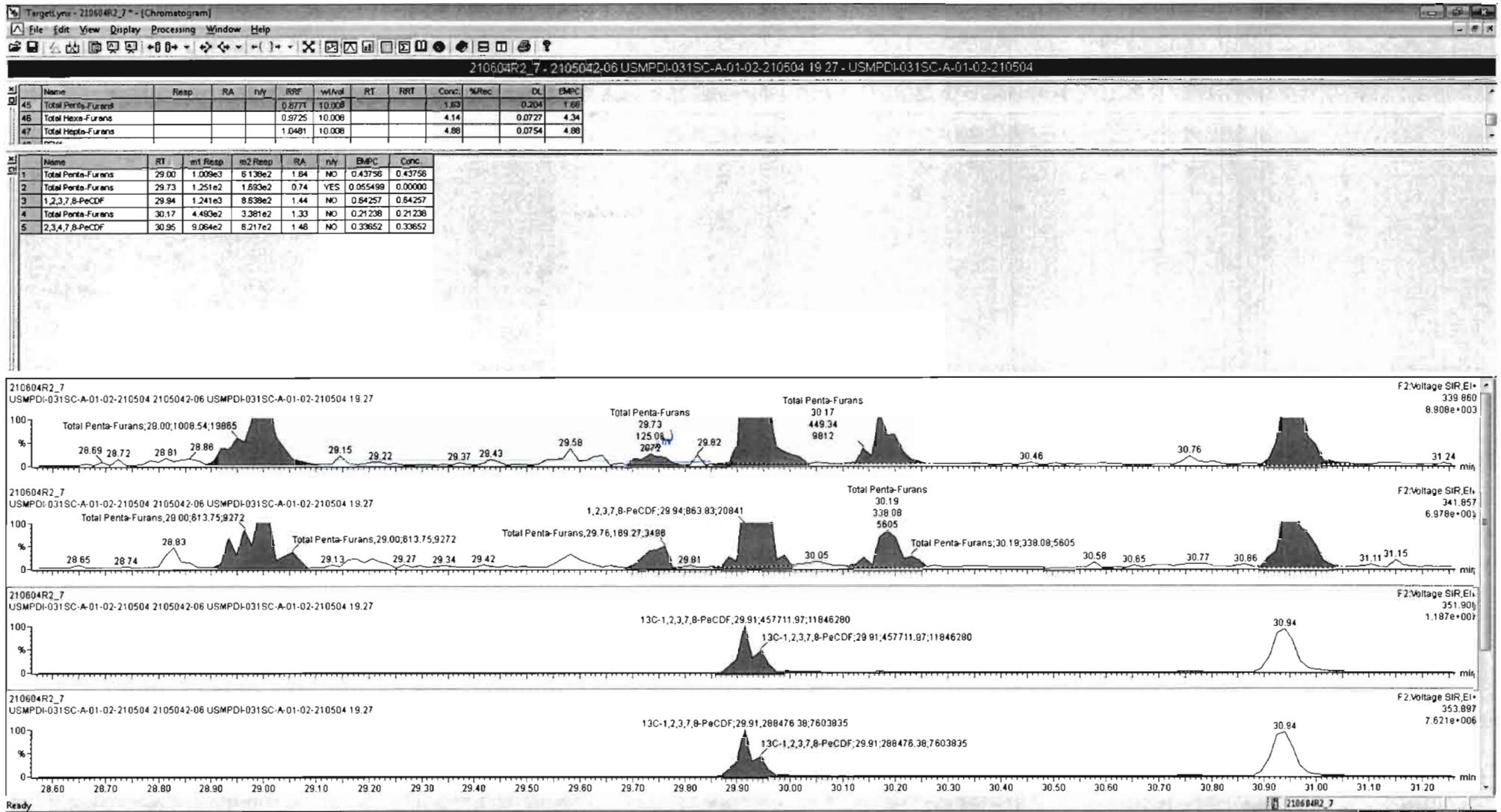


13C-1,2,3,7,8-PeCDF



DPE2





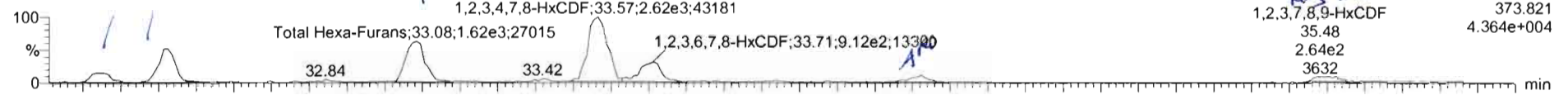
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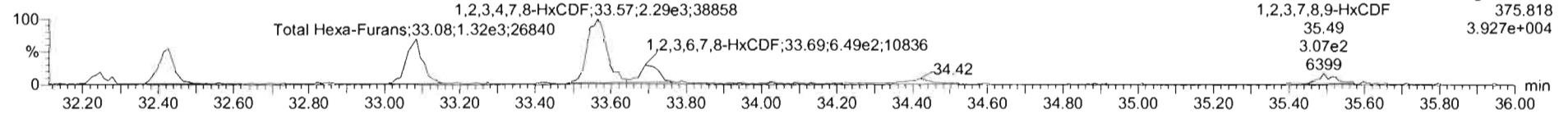
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1,2,3,4,7,8-HxCDF

210604R2_7

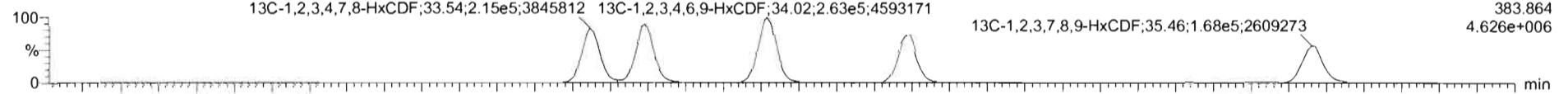


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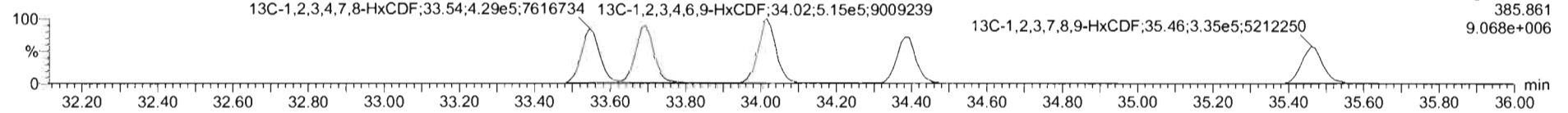


13C-1,2,3,4,7,8-HxCDF

210604R2_7

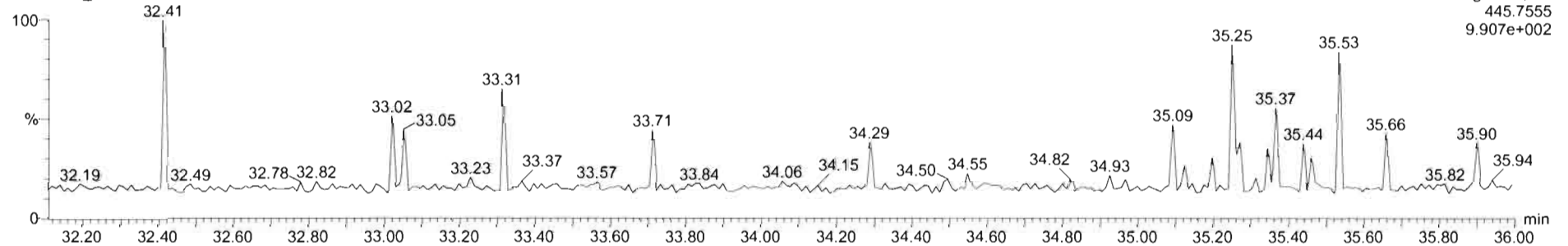


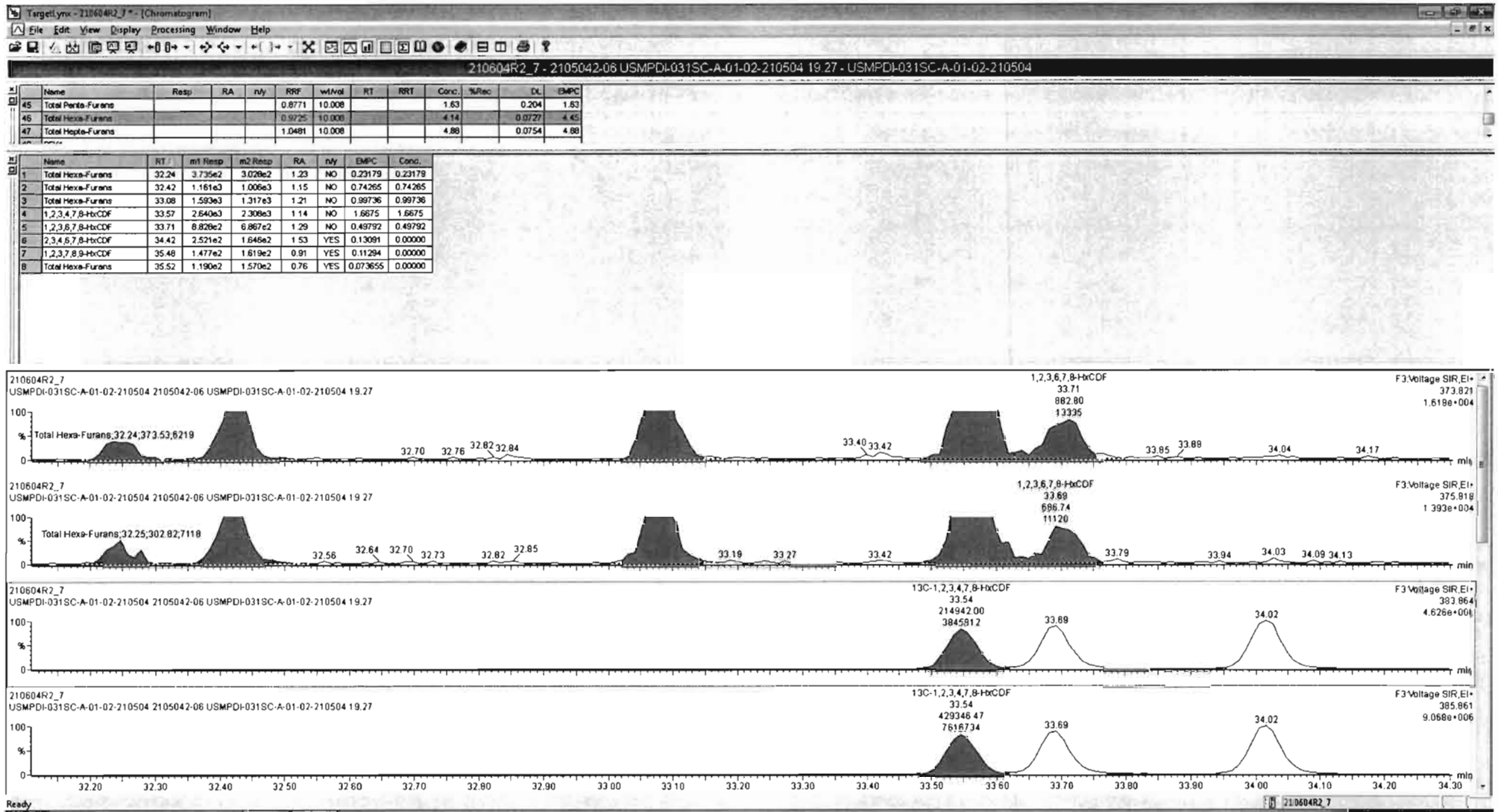
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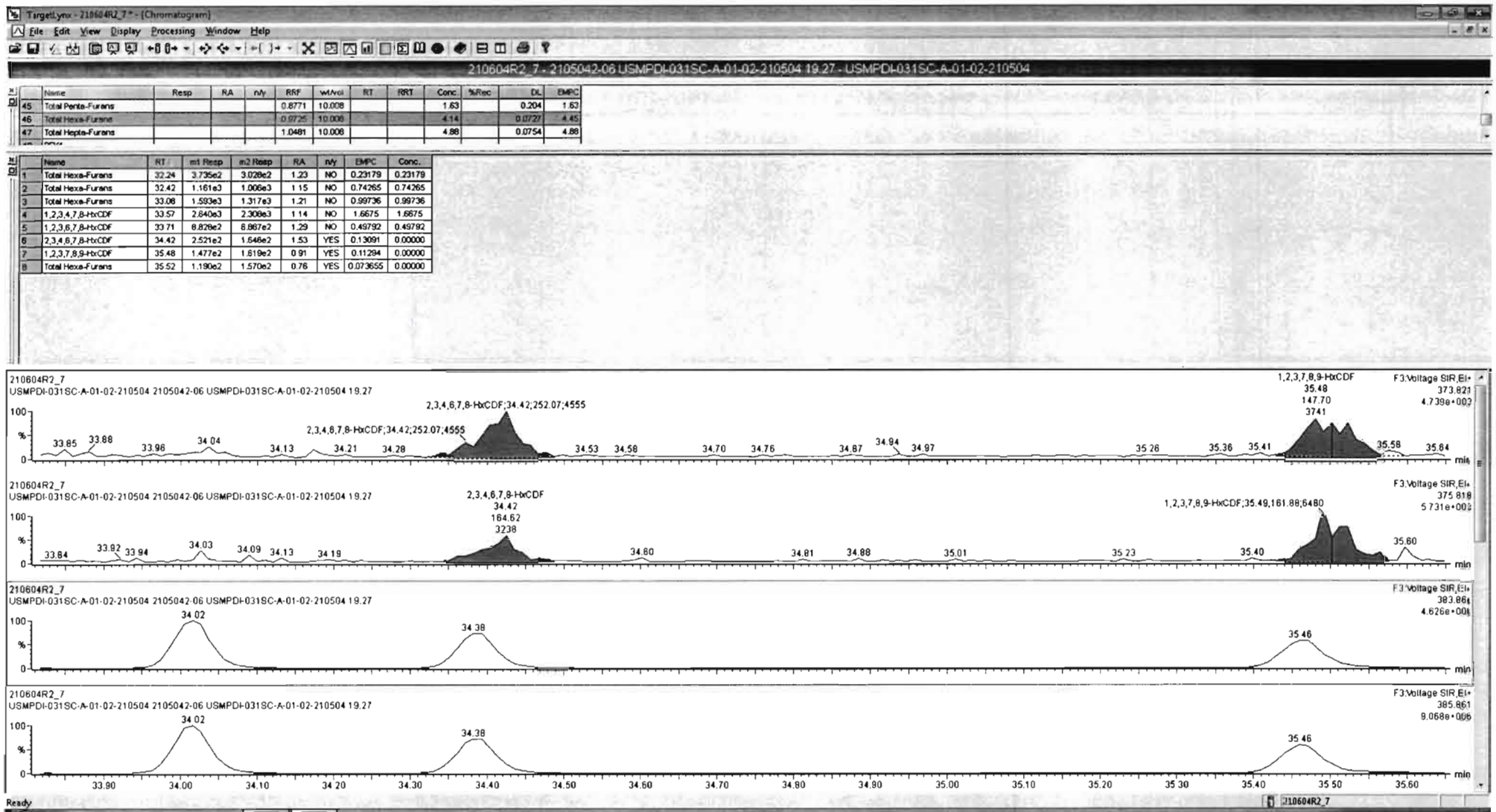


DPE3

210604R2_7







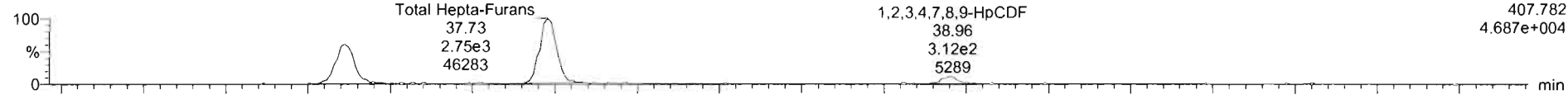
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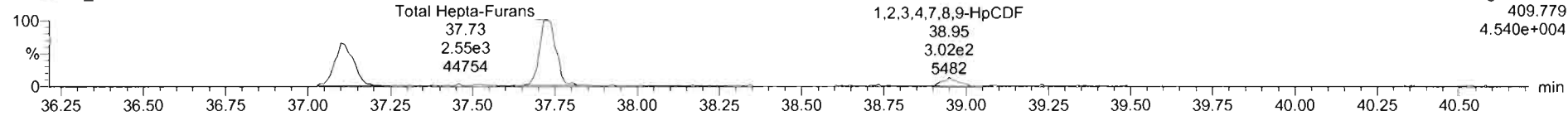
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1,2,3,4,6,7,8-HpCDF

210604R2_7

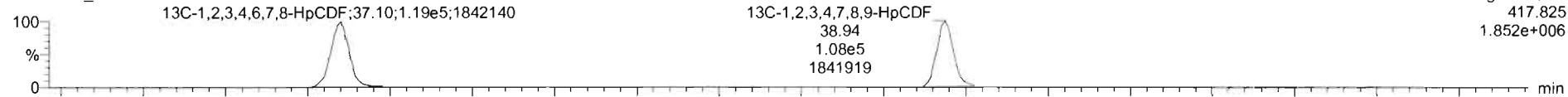


210604R2_7

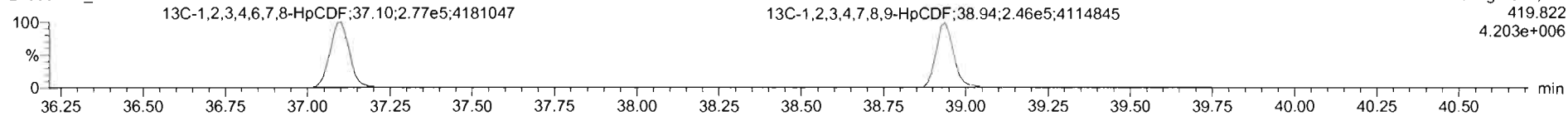


13C-1,2,3,4,6,7,8-HpCDF

210604R2_7

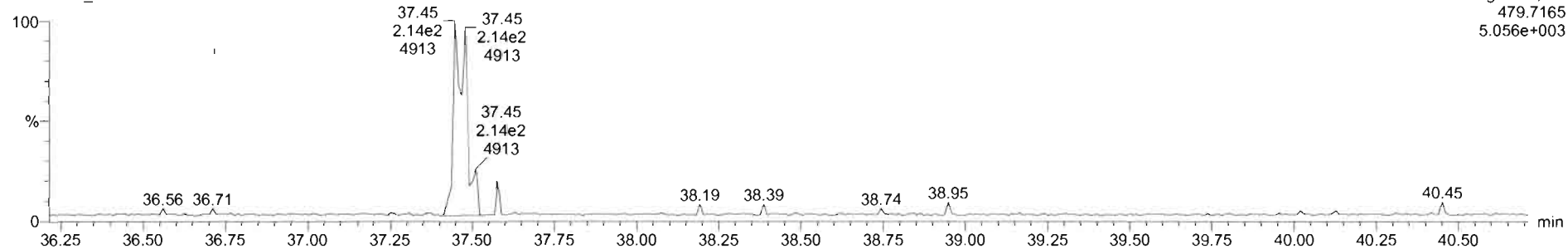


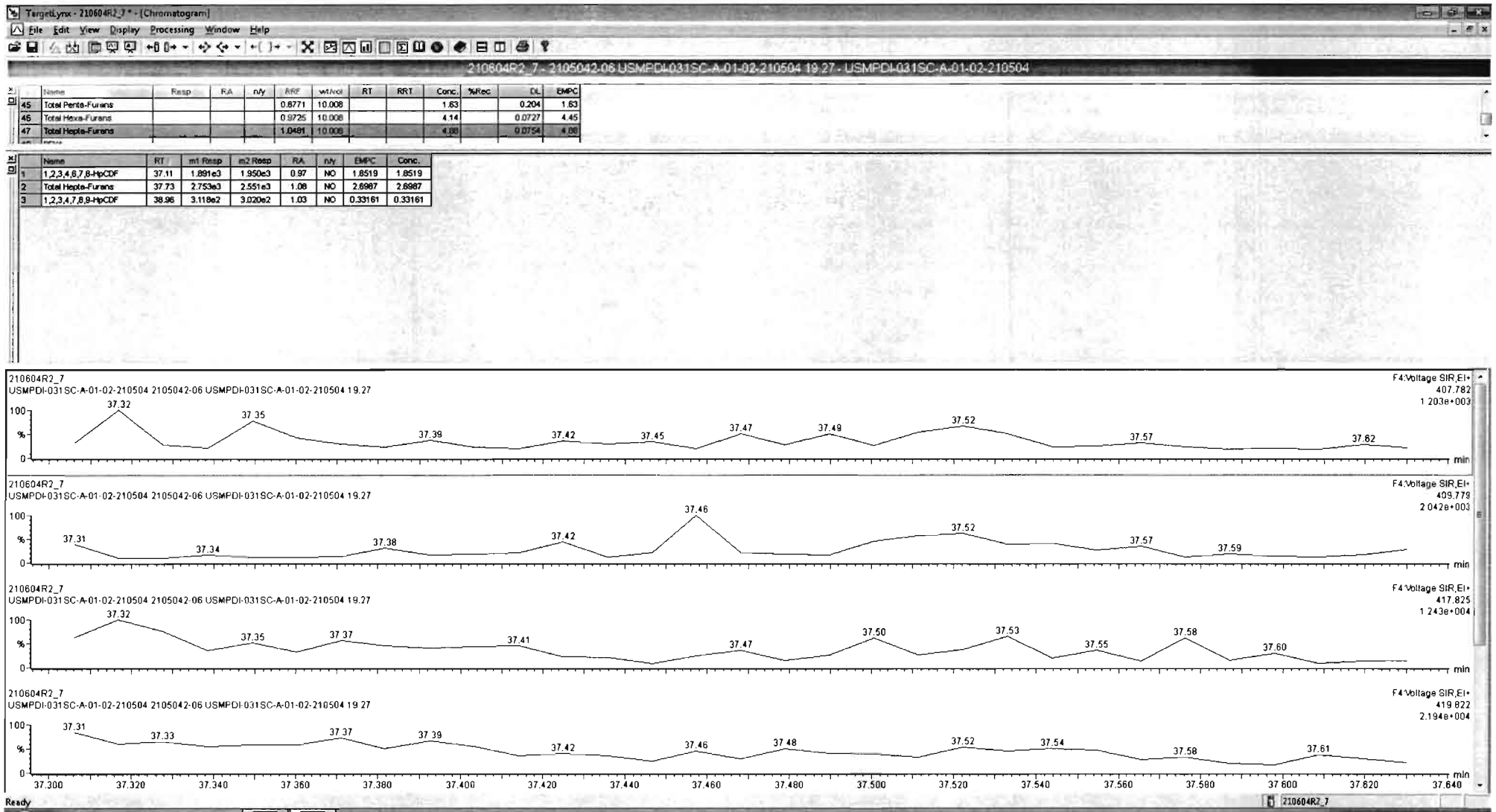
210604R2_7



DPE4

210604R2_7

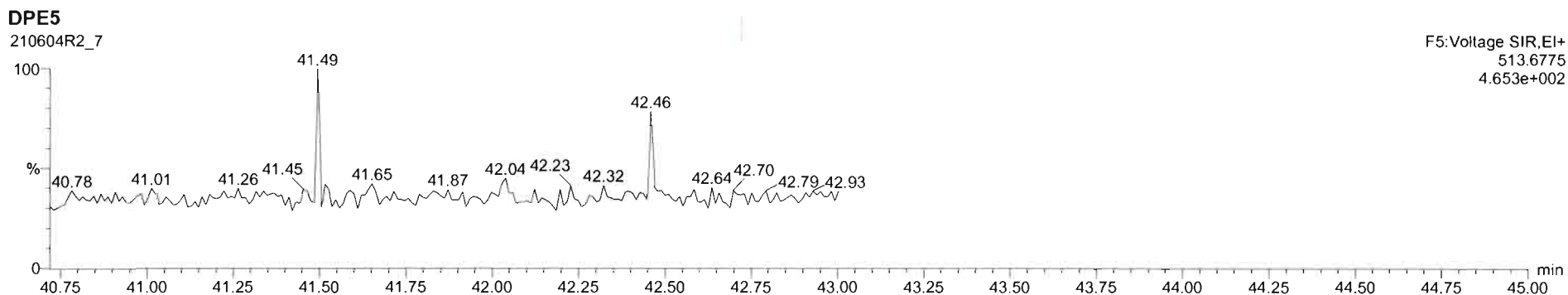
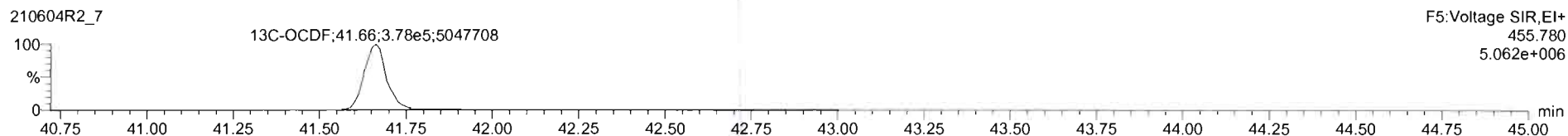
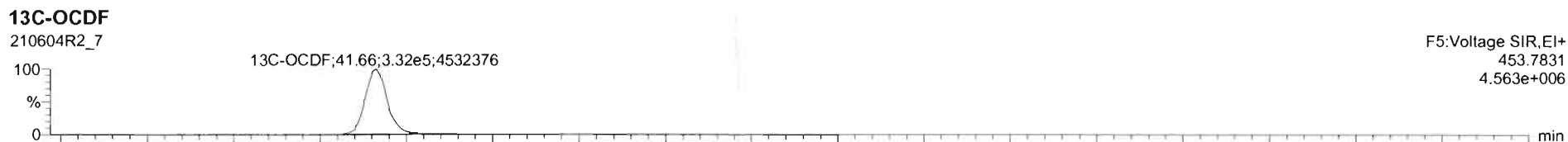
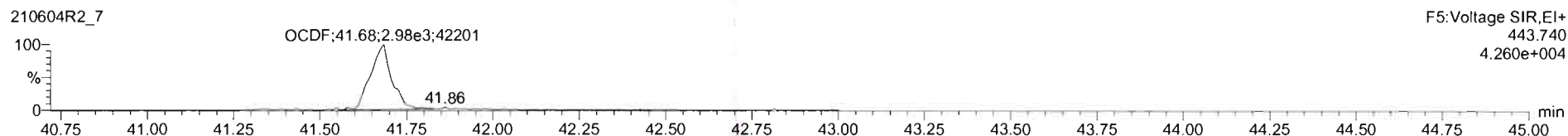
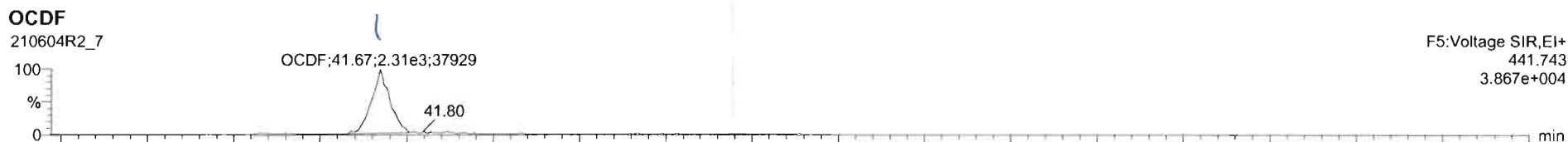




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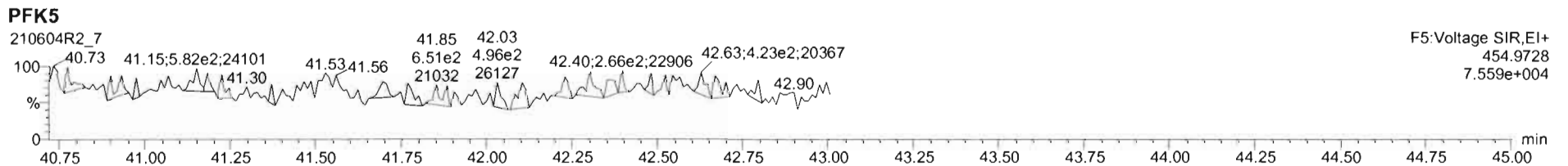
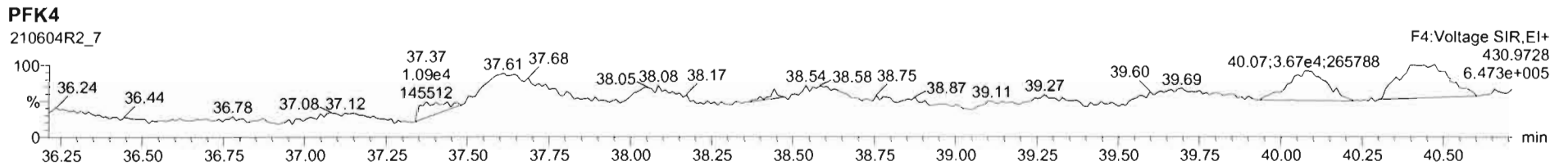
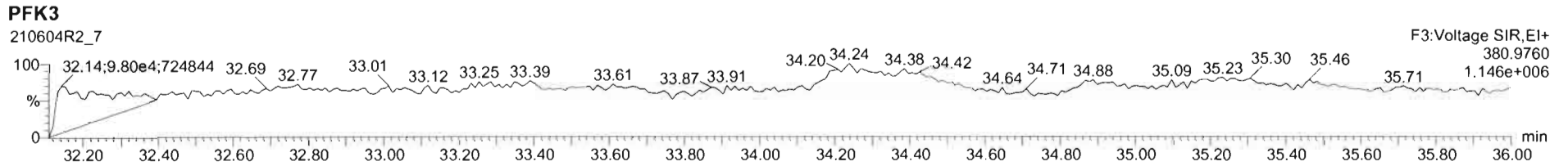
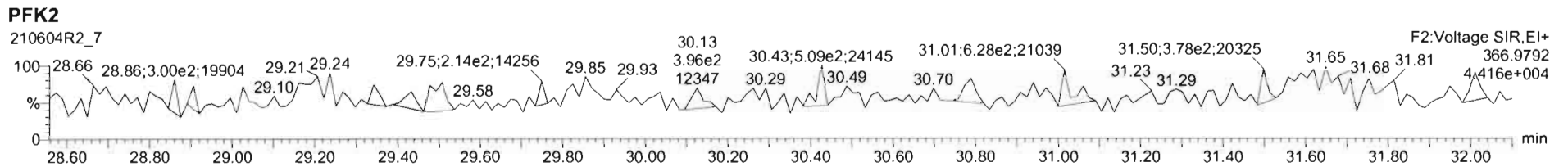
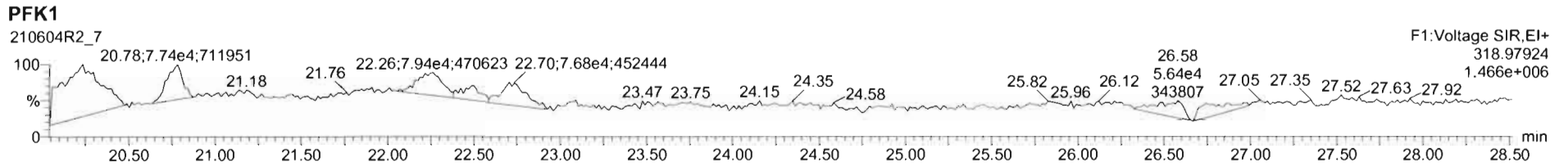
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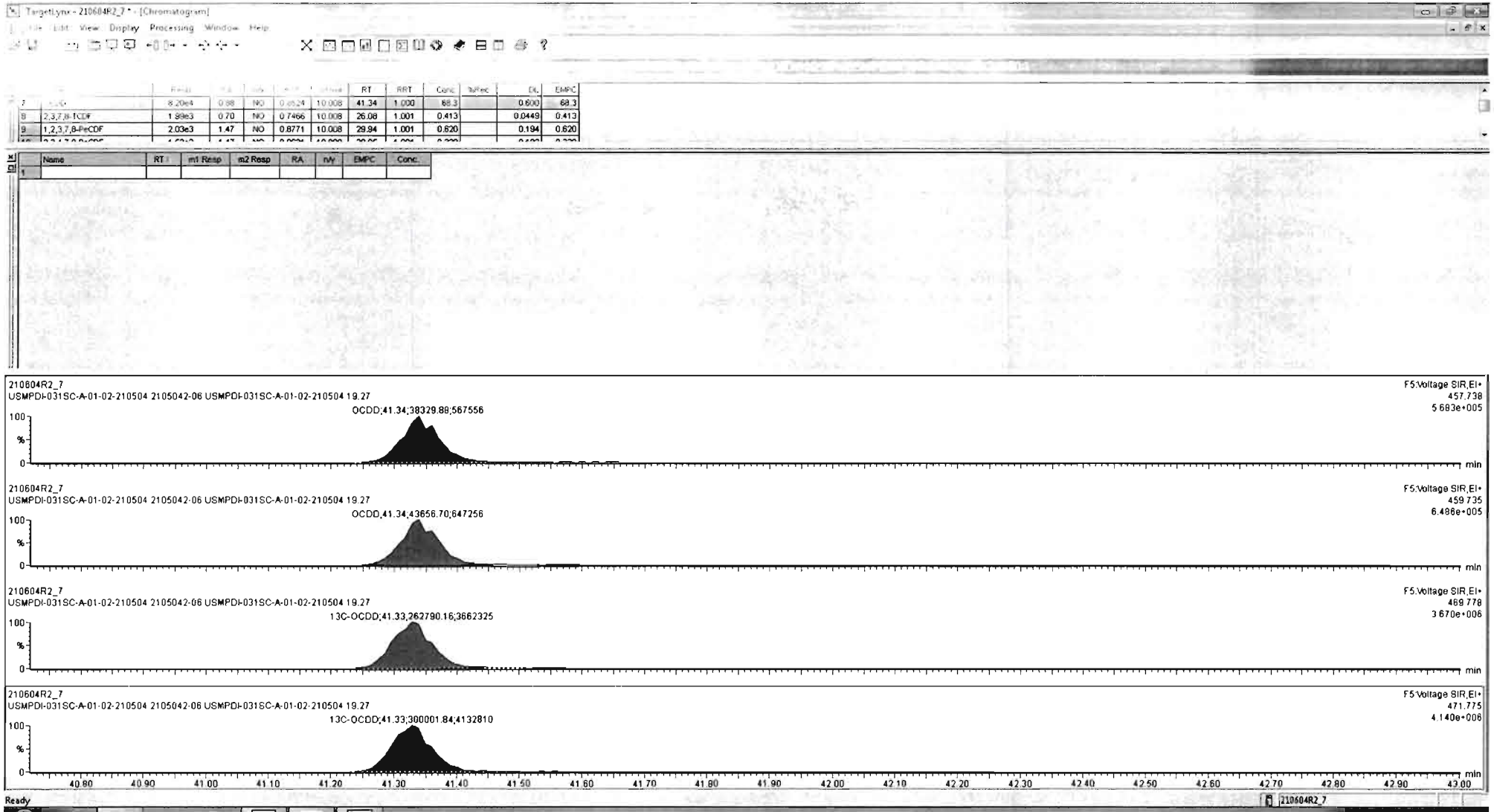


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Name: 210604R2_7, Date: 04-Jun-2021, Time: 15:02:11, ID: 2105042-06 USMPDI-031SC-A-01-02-210504 19.27, Description: USMPDI-031SC-A-01-02-210504





Dataset: U:\VG12.PRO\Results\210604R3\210604R3_11.qld

Last Altered: Tuesday, June 15, 2021 11:06:30 Pacific Daylight Time
Printed: Tuesday, June 15, 2021 11:08:41 Pacific Daylight Time

dy 06-15-2021
0706/23/2021

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Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.96e3	0.33	YES	0.929	10.012	26.713	26.70	1.001	1.001	0.53106		0.0443	0.305
2	2 1,2,3,7,8-PeCDD	1.81e3	0.58	NO	0.826	10.012	31.121	31.11	1.001	1.000	0.56964		0.0787	0.570
3	3 1,2,3,4,7,8-HxCDD	2.07e3	1.23	NO	0.972	10.012	34.466	34.46	1.001	1.000	0.82431		0.136	0.824
4	4 1,2,3,6,7,8-HxCDD	9.15e3	1.24	NO	0.877	10.012	34.592	34.59	1.001	1.001	3.6044		0.136	3.60
5	5 1,2,3,7,8,9-HxCDD	5.44e3	1.18	NO	0.874	10.012	34.874	34.88	1.000	1.001	2.0325		0.138	2.03
6	6 1,2,3,4,6,7,8-HpCDD	1.81e5	1.03	NO	0.899	10.012	38.257	38.26	1.000	1.000	90.287		0.378	90.3
7	7 OCDD	1.43e6	0.88	NO	0.852	10.012	41.378	41.37	1.000	1.000	1097.7		183	1100
8	8 2,3,7,8-TCDF	1.76e4	0.72	NO	0.747	10.012	26.063	26.07	1.000	1.001	3.2934		0.0923	3.29
9	9 1,2,3,7,8-PeCDF	3.08e4	1.63	NO	0.877	10.012	29.902	29.91	1.000	1.001	6.5751		0.0973	6.58
10	10 2,3,4,7,8-PeCDF	1.51e4	1.61	NO	0.962	10.012	30.931	30.94	1.001	1.001	2.9286		0.0936	2.93
11	11 1,2,3,4,7,8-HxCDF	7.20e4	1.21	NO	0.920	10.012	33.513	33.52	1.000	1.001	21.859		0.123	21.9
12	12 1,2,3,6,7,8-HxCDF	2.46e4	1.20	NO	0.936	10.012	33.670	33.66	1.001	1.000	7.4272		0.120	7.43
13	13 2,3,4,6,7,8-HxCDF	5.35e3	1.19	NO	0.973	10.012	34.361	34.38	1.001	1.001	1.7676		0.134	1.77
14	14 1,2,3,7,8,9-HxCDF	1.91e3	1.26	NO	0.940	10.012	35.430	35.45	1.000	1.001	0.70150		0.169	0.702
15	15 1,2,3,4,6,7,8-HpCDF	5.90e4	0.98	NO	1.05	10.012	37.066	37.06	1.000	1.000	24.692		0.136	24.7
16	16 1,2,3,4,7,8,9-HpCDF	8.04e3	1.09	NO	1.05	10.012	38.917	38.92	1.000	1.000	4.1080		0.156	4.11
17	17 OCDF	7.53e4	0.83	NO	0.771	10.012	41.702	41.69	1.000	1.000	54.405		3.67	54.4
18	18 13C-2,3,7,8-TCDD	7.95e5	0.77	NO	1.10	10.012	26.655	26.68	1.027	1.028	156.79	78.5	0.107	
19	19 13C-1,2,3,7,8-PeCDD	7.70e5	0.63	NO	0.864	10.012	31.034	31.09	1.196	1.198	194.16	97.2	0.200	
20	20 13C-1,2,3,4,7,8-HxCDD	5.17e5	1.29	NO	0.746	10.012	34.443	34.44	1.014	1.014	174.83	87.5	0.364	
21	21 13C-1,2,3,6,7,8-HxCDD	5.78e5	1.28	NO	0.847	10.012	34.562	34.57	1.017	1.018	172.36	86.3	0.321	
22	22 13C-1,2,3,7,8,9-HxCDD	6.12e5	1.27	NO	0.868	10.012	34.861	34.86	1.026	1.026	177.97	89.1	0.313	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.46e5	1.04	NO	0.664	10.012	38.207	38.25	1.125	1.126	169.33	84.8	0.484	
24	24 13C-OCDD	6.09e5	0.92	NO	0.561	10.012	41.153	41.37	1.211	1.218	273.98	68.6	0.623	
25	25 13C-2,3,7,8-TCDF	1.43e6	0.78	NO	1.09	10.012	26.045	26.06	1.003	1.004	183.01	91.6	0.144	
26	26 13C-1,2,3,7,8-PeCDF	1.07e6	1.57	NO	0.809	10.012	29.765	29.90	1.147	1.152	184.85	92.5	0.346	
27	27 13C-2,3,4,7,8-PeCDF	1.07e6	1.61	NO	0.803	10.012	30.725	30.91	1.184	1.191	186.50	93.4	0.349	
28	28 13C-1,2,3,4,7,8-HxCDF	7.15e5	0.51	NO	1.01	10.012	33.515	33.50	0.987	0.986	178.57	89.4	0.419	
29	29 13C-1,2,3,6,7,8-HxCDF	7.08e5	0.50	NO	1.07	10.012	33.644	33.65	0.990	0.990	166.35	83.3	0.394	
30	30 13C-2,3,4,6,7,8-HxCDF	6.22e5	0.50	NO	0.910	10.012	34.334	34.34	1.011	1.011	172.48	86.3	0.465	
31	31 13C-1,2,3,7,8,9-HxCDF	5.78e5	0.50	NO	0.828	10.012	35.411	35.42	1.042	1.043	176.19	88.2	0.511	

Dataset: U:\WG12.PRO\Results\210604R3\210604R3_11.qld

Last Altered: Tuesday, June 15, 2021 11:06:30 Pacific Daylight Time

Printed: Tuesday, June 15, 2021 11:08:41 Pacific Daylight Time

Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.55e5	0.43	NO	0.661	10.012	37.018	37.05	1.090	1.090	173.78	87.0	0.408	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.74e5	0.43	NO	0.566	10.012	38.778	38.90	1.141	1.145	166.89	83.6	0.477	
34	34 13C-OCDF	7.17e5	0.89	NO	0.663	10.012	41.540	41.69	1.223	1.227	273.19	68.4	13.0	
35	35 37Cl-2,3,7,8-TCDD	8.52e5			2.07	10.012	26.855	26.70	1.035	1.028	89.753	112	0.0190	
36	36 13C-1,2,3,4-TCDD	9.17e5	0.77	NO	1.00	10.012	26.070	25.96	1.000	1.000	199.75	100	0.118	
37	37 13C-1,2,3,4-TCDF	1.43e6	0.79	NO	1.00	10.012	24.760	24.64	1.000	1.000	199.75	100	0.157	
38	38 13C-1,2,3,4,6,9-HxCDF	7.92e5	0.50	NO	1.00	10.012	34.040	33.97	1.000	1.000	199.75	100	0.423	
39	39 Total Tetra-Dioxins				0.929	10.012	24.620		0.000		3.6399		0.0443	4.19
40	40 Total Penta-Dioxins				0.826	10.012	29.960		0.000		4.9832		0.0787	5.06
41	41 Total Hexa-Dioxins				0.877	10.012	33.635		0.000		28.882		0.141	28.9
42	42 Total Hepta-Dioxins				0.899	10.012	37.640		0.000		197.96		0.378	198
43	43 Total Tetra-Furans				0.747	10.012	23.610		0.000		12.679		0.0923	14.0
44	44 1st Func. Penta-Furans				0.877	10.012	27.620		0.000		6.0195		0.0107	6.02
45	45 Total Penta-Furans				0.877	10.012	29.275		0.000		17.219		0.100	18.1
46	46 Total Hexa-Furans				0.973	10.012	33.555		0.000		52.920		0.131	53.3
47	47 Total Hepta-Furans				1.05	10.012	37.835		0.000		59.979		0.145	60.0

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_11.qld

Last Altered: Tuesday, June 15, 2021 11:06:30 Pacific Daylight Time
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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
 Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	1.676e4	1.980e4	1.365e3	1.599e3	0.85	NO	2.964e3	0.80161	0.80161	0.0443
2	Total Tetra-Dioxins	23.58	8.528e3	1.383e4	7.212e2	1.101e3	0.66	NO	1.822e3	0.49287	0.49287	0.0443
3	Total Tetra-Dioxins	24.05	7.949e3	8.432e3	5.306e2	6.034e2	0.88	NO	1.134e3	0.30675	0.30675	0.0443
4	Total Tetra-Dioxins	24.77	1.315e4	1.272e4	8.657e2	9.930e2	0.87	NO	1.859e3	0.50276	0.50276	0.0443
5	Total Tetra-Dioxins	25.00	5.000e3	5.463e3	3.619e2	3.621e2	1.00	YES	0.000e0	0.00000	0.17336	0.0443
6	Total Tetra-Dioxins	25.17	6.650e3	7.325e3	4.133e2	5.044e2	0.82	NO	9.176e2	0.24821	0.24821	0.0443
7	Total Tetra-Dioxins	25.62	2.965e3	4.601e3	1.762e2	2.175e2	0.81	NO	3.937e2	0.10649	0.10649	0.0443
8	Total Tetra-Dioxins	25.71	3.543e3	4.929e3	2.120e2	2.680e2	0.79	NO	4.800e2	0.12984	0.12984	0.0443
9	Total Tetra-Dioxins	26.44	2.537e4	2.851e4	1.552e3	1.919e3	0.81	NO	3.472e3	0.93902	0.93902	0.0443
10	2,3,7,8-TCDD	26.70	9.134e3	2.628e4	4.901e2	1.473e3	0.33	YES	1.963e3	0.00000	0.30472	0.0443
11	Total Tetra-Dioxins	26.99	2.993e3	4.291e3	1.902e2	2.251e2	0.84	NO	4.153e2	0.11232	0.11232	0.0443
12	Total Tetra-Dioxins	27.55	2.890e3	2.414e3	1.600e2	1.402e2	1.14	YES	0.000e0	0.00000	0.067116	0.0443

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.93	3.373e4	4.834e4	2.160e3	3.477e3	0.62	NO	5.638e3	1.7714	1.7714	0.0787
2	Total Penta-Dioxins	29.19	1.795e3	8.658e3	9.058e1	4.601e2	0.20	YES	0.000e0	0.00000	0.073639	0.0787
3	Total Penta-Dioxins	29.39	1.564e4	2.349e4	7.386e2	1.305e3	0.57	NO	2.043e3	0.64206	0.64206	0.0787
4	Total Penta-Dioxins	30.07	1.359e4	2.011e4	5.035e2	7.786e2	0.65	NO	1.282e3	0.40285	0.40285	0.0787
5	Total Penta-Dioxins	30.08	8.191e3	1.441e4	5.531e2	8.458e2	0.65	NO	1.399e3	0.43955	0.43955	0.0787
6	Total Penta-Dioxins	30.35	1.599e4	2.312e4	9.837e2	1.658e3	0.59	NO	2.642e3	0.83017	0.83017	0.0787
7	Total Penta-Dioxins	30.64	3.246e3	3.671e3	1.296e2	2.345e2	0.55	NO	3.641e2	0.11440	0.11440	0.0787
8	1,2,3,7,8-PeCDD	31.11	1.296e4	2.945e4	6.679e2	1.145e3	0.58	NO	1.813e3	0.56964	0.56964	0.0787
9	Total Penta-Dioxins	31.45	5.457e3	8.191e3	2.741e2	4.045e2	0.68	NO	6.785e2	0.21320	0.21320	0.0787

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_11.qld

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Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.74	3.246e5	2.623e5	1.620e4	1.275e4	1.27	NO	2.895e4	11.582	11.582	0.141
2	Total Hexa-Dioxins	33.37	3.822e4	3.222e4	1.983e3	1.545e3	1.28	NO	3.528e3	1.4117	1.4117	0.141
3	Total Hexa-Dioxins	33.68	2.688e5	2.146e5	1.131e4	8.790e3	1.29	NO	2.010e4	8.0409	8.0409	0.141
4	Total Hexa-Dioxins	33.76	1.960e4	2.026e4	1.200e3	9.568e2	1.25	NO	2.156e3	0.86283	0.86283	0.141
5	1,2,3,4,7,8-HxCDD	34.46	2.147e4	1.781e4	1.145e3	9.295e2	1.23	NO	2.074e3	0.82431	0.82431	0.136
6	1,2,3,6,7,8-HxCDD	34.59	8.597e4	7.026e4	5.066e3	4.087e3	1.24	NO	9.153e3	3.6044	3.6044	0.136
7	Total Hexa-Dioxins	34.77	1.394e4	9.513e3	7.135e2	5.955e2	1.20	NO	1.309e3	0.52378	0.52378	0.141
8	1,2,3,7,8,9-HxCDD	34.88	5.246e4	4.615e4	2.952e3	2.493e3	1.18	NO	5.445e3	2.0325	2.0325	0.138

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	1.925e6	1.889e6	1.097e5	1.062e5	1.03	NO	2.159e5	107.68	107.68	0.378
2	1,2,3,4,6,7,8-HpCDD	38.26	1.851e6	1.822e6	9.163e4	8.940e4	1.03	NO	1.810e5	90.287	90.287	0.378

Dataset: U:\WG12.PRO\Results\210604R3\210604R3_11.qld

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Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.14	4.463e3	4.358e3	3.289e2	3.659e2	0.90	YES	0.000e0	0.00000	0.12141	0.0923
2	Total Tetra-Furans	21.76	8.850e3	1.088e4	6.962e2	8.773e2	0.79	NO	1.574e3	0.29494	0.29494	0.0923
3	Total Tetra-Furans	22.51	4.127e4	5.579e4	3.480e3	4.901e3	0.71	NO	8.381e3	1.5709	1.5709	0.0923
4	Total Tetra-Furans	22.84	5.042e3	5.594e3	3.149e2	3.897e2	0.81	NO	7.046e2	0.13206	0.13206	0.0923
5	Total Tetra-Furans	22.96	1.271e4	2.000e4	1.287e3	1.854e3	0.69	NO	3.141e3	0.58876	0.58876	0.0923
6	Total Tetra-Furans	23.31	3.182e4	3.934e4	2.750e3	3.866e3	0.71	NO	6.617e3	1.2402	1.2402	0.0923
7	Total Tetra-Furans	23.72	2.376e4	3.150e4	1.722e3	2.189e3	0.79	NO	3.912e3	0.73320	0.73320	0.0923
8	Total Tetra-Furans	23.86	7.041e3	9.820e3	4.630e2	7.278e2	0.64	YES	0.000e0	0.00000	0.19948	0.0923
9	Total Tetra-Furans	24.03	9.965e3	1.322e4	7.775e2	1.069e3	0.73	NO	1.846e3	0.34605	0.34605	0.0923
10	Total Tetra-Furans	24.42	4.787e3	5.617e3	2.642e2	3.226e2	0.82	NO	5.869e2	0.11000	0.11000	0.0923
11	Total Tetra-Furans	24.51	5.880e3	7.422e3	4.061e2	5.942e2	0.68	NO	1.000e3	0.18750	0.18750	0.0923
12	Total Tetra-Furans	24.69	7.452e3	1.004e4	2.697e2	3.803e2	0.71	NO	0.000e0	0.00000	0.12184	0.0923
13	Total Tetra-Furans	24.76	2.116e4	2.909e4	1.798e3	2.773e3	0.65	YES	0.000e0	0.00000	0.77461	0.0923
14	Total Tetra-Furans	25.16	9.121e4	1.181e5	5.811e3	7.785e3	0.75	NO	1.360e4	2.5483	2.5483	0.0923
15	Total Tetra-Furans	25.45	9.064e3	8.970e3	4.787e2	6.623e2	0.72	NO	1.141e3	0.21386	0.21386	0.0923
16	Total Tetra-Furans	25.81	6.095e3	6.941e3	3.104e2	3.581e2	0.87	NO	6.684e2	0.12529	0.12529	0.0923
17	Total Tetra-Furans	25.96	1.729e4	1.889e4	1.025e3	1.233e3	0.83	NO	2.258e3	0.42319	0.42319	0.0923
18	2,3,7,8-TCDF	26.07	1.136e5	1.702e5	7.336e3	1.023e4	0.72	NO	1.757e4	3.2934	3.2934	0.0923
19	Total Tetra-Furans	26.34	1.025e4	1.248e4	9.992e2	1.182e3	0.85	NO	2.181e3	0.40883	0.40883	0.0923
20	Total Tetra-Furans	27.45	1.093e4	1.499e4	6.177e2	8.143e2	0.76	NO	1.432e3	0.26841	0.26841	0.0923
21	Total Tetra-Furans	27.64	6.474e3	4.819e3	4.044e2	2.457e2	1.65	YES	0.000e0	0.00000	0.081521	0.0923
22	Total Tetra-Furans	27.86	7.726e3	1.010e4	4.406e2	5.960e2	0.74	NO	1.037e3	0.19431	0.19431	0.0923

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	3.115e5	1.873e5	1.722e4	1.102e4	1.56	NO	2.823e4	6.0195	6.0195	0.0107

Vista Analytical Laboratory

Dataset: U:\WC12\PROJ\Results\210604R3\210604R3_11.qld

Acquired: Tuesday, June 15, 2021 11:06:30 Pacific Daylight Time

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Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.80	1.922e4	1.205e4	1.259e3	7.639e2	1.65	NO	2.022e3	0.43117	0.43117	0.100
2	Total Penta-Furans	28.99	1.304e5	8.042e4	1.065e4	6.684e3	1.59	NO	1.733e4	3.6954	3.6954	0.100
3	Total Penta-Furans	29.57	4.831e4	2.776e4	2.809e3	1.831e3	1.53	NO	4.639e3	0.98910	0.98910	0.100
4	Total Penta-Furans	29.72	2.235e4	1.395e4	9.800e2	7.088e2	1.38	NO	1.689e3	0.36004	0.36004	0.100
5	1,2,3,7,8-PeCDF	29.91	4.055e5	2.443e5	1.913e4	1.170e4	1.63	NO	3.083e4	6.5751	6.5751	0.0973
6	Total Penta-Furans	30.16	1.029e5	6.955e4	5.153e3	3.509e3	1.47	NO	8.662e3	1.8467	1.8467	0.100
7	Total Penta-Furans	30.74	1.361e4	8.351e3	7.239e2	4.814e2	1.50	NO	1.205e3	0.25696	0.25696	0.100
8	2,3,4,7,8-PeCDF	30.94	1.667e5	9.827e4	9.309e3	5.766e3	1.61	NO	1.507e4	2.9286	2.9286	0.0936
9	Total Penta-Furans	31.75	7.751e4	3.697e4	3.149e3	1.528e3	2.06	YES	0.000e0	0.00000	0.83063	0.100
10	Total Penta-Furans	31.83	1.023e4	5.414e3	4.077e2	2.324e2	1.75	NO	6.401e2	0.13646	0.13646	0.100

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.21	8.199e4	7.245e4	3.908e3	3.179e3	1.23	NO	7.087e3	2.2196	2.2196	0.131
2	Total Hexa-Furans	32.37	3.066e5	2.524e5	1.401e4	1.138e4	1.23	NO	2.538e4	7.9510	7.9510	0.131
3	Total Hexa-Furans	32.81	5.692e3	6.626e3	2.875e2	3.123e2	0.92	YES	0.000e0	0.00000	0.16268	0.131
4	Total Hexa-Furans	33.03	3.375e5	2.873e5	1.806e4	1.448e4	1.25	NO	3.254e4	10.191	10.191	0.131
5	Total Hexa-Furans	33.39	7.434e3	1.095e4	3.357e2	3.731e2	0.90	YES	0.000e0	0.00000	0.18994	0.131
6	1,2,3,4,7,8-HxCDF	33.52	7.783e5	6.364e5	3.945e4	3.259e4	1.21	NO	7.205e4	21.859	21.859	0.123
7	1,2,3,6,7,8-HxCDF	33.66	2.545e5	1.915e5	1.345e4	1.118e4	1.20	NO	2.463e4	7.4272	7.4272	0.120
8	2,3,4,6,7,8-HxCDF	34.38	4.297e4	3.301e4	2.905e3	2.444e3	1.19	NO	5.350e3	1.7676	1.7676	0.134
9	1,2,3,7,8,9-HxCDF	35.45	3.449e4	2.790e4	1.063e3	8.460e2	1.26	NO	1.909e3	0.70150	0.70150	0.169
10	Total Hexa-Furans	35.46	3.548e4	2.930e4	1.432e3	1.133e3	1.26	NO	2.565e3	0.80337	0.80337	0.131

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.06	5.030e5	4.969e5	2.921e4	2.976e4	0.98	NO	5.896e4	24.692	24.692	0.136
2	Total Hepta-Furans	37.47	6.858e3	6.570e3	3.564e2	3.414e2	1.04	NO	6.978e2	0.32076	0.32076	0.145
3	Total Hepta-Furans	37.69	6.517e5	6.585e5	3.367e4	3.346e4	1.01	NO	6.713e4	30.858	30.858	0.145
4	1,2,3,4,7,8,9-HpCDF	38.92	7.541e4	6.476e4	4.188e3	3.856e3	1.09	NO	8.044e3	4.1080	4.1080	0.156

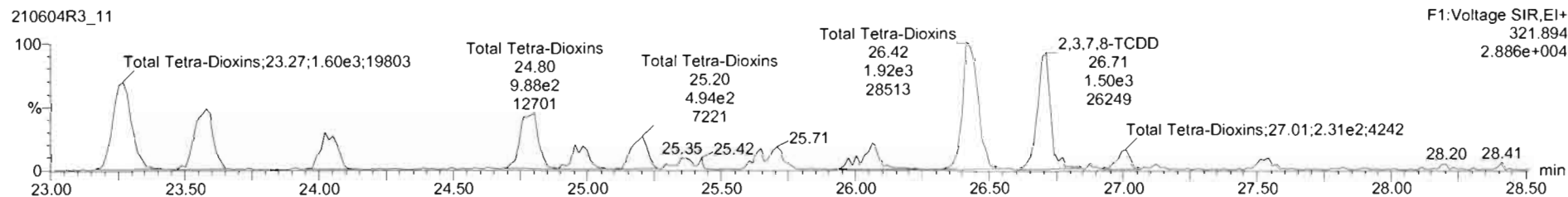
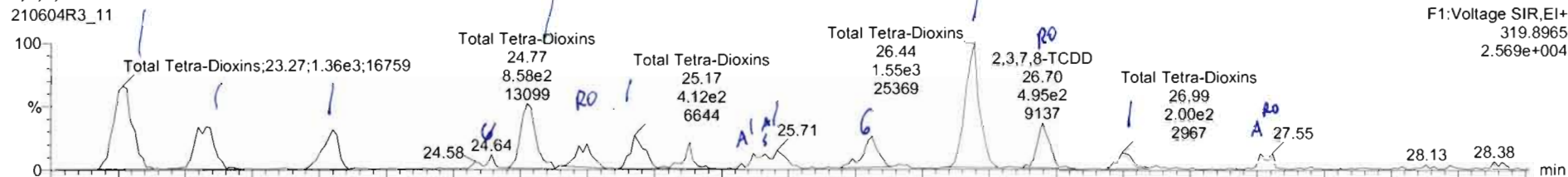
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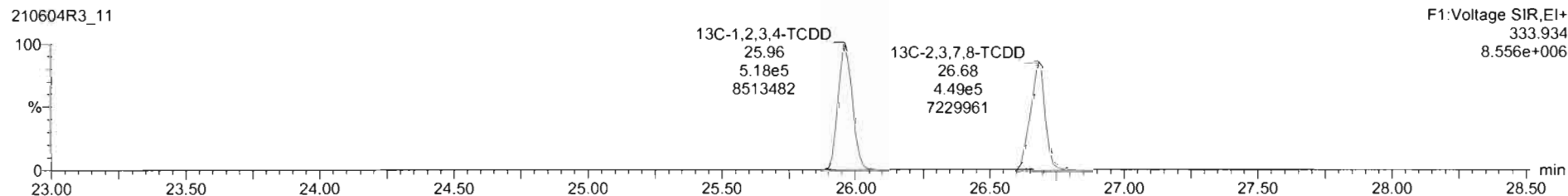
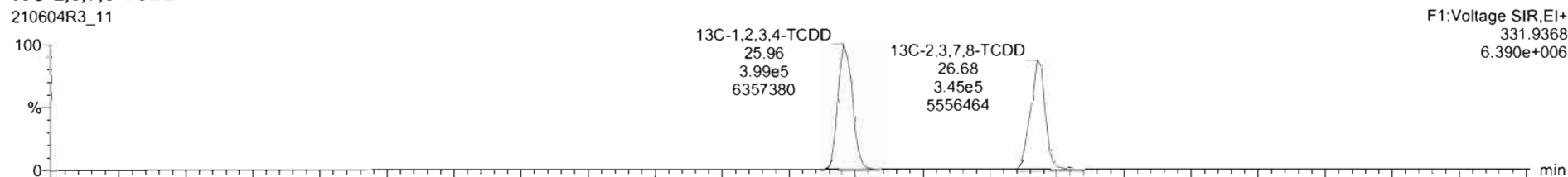
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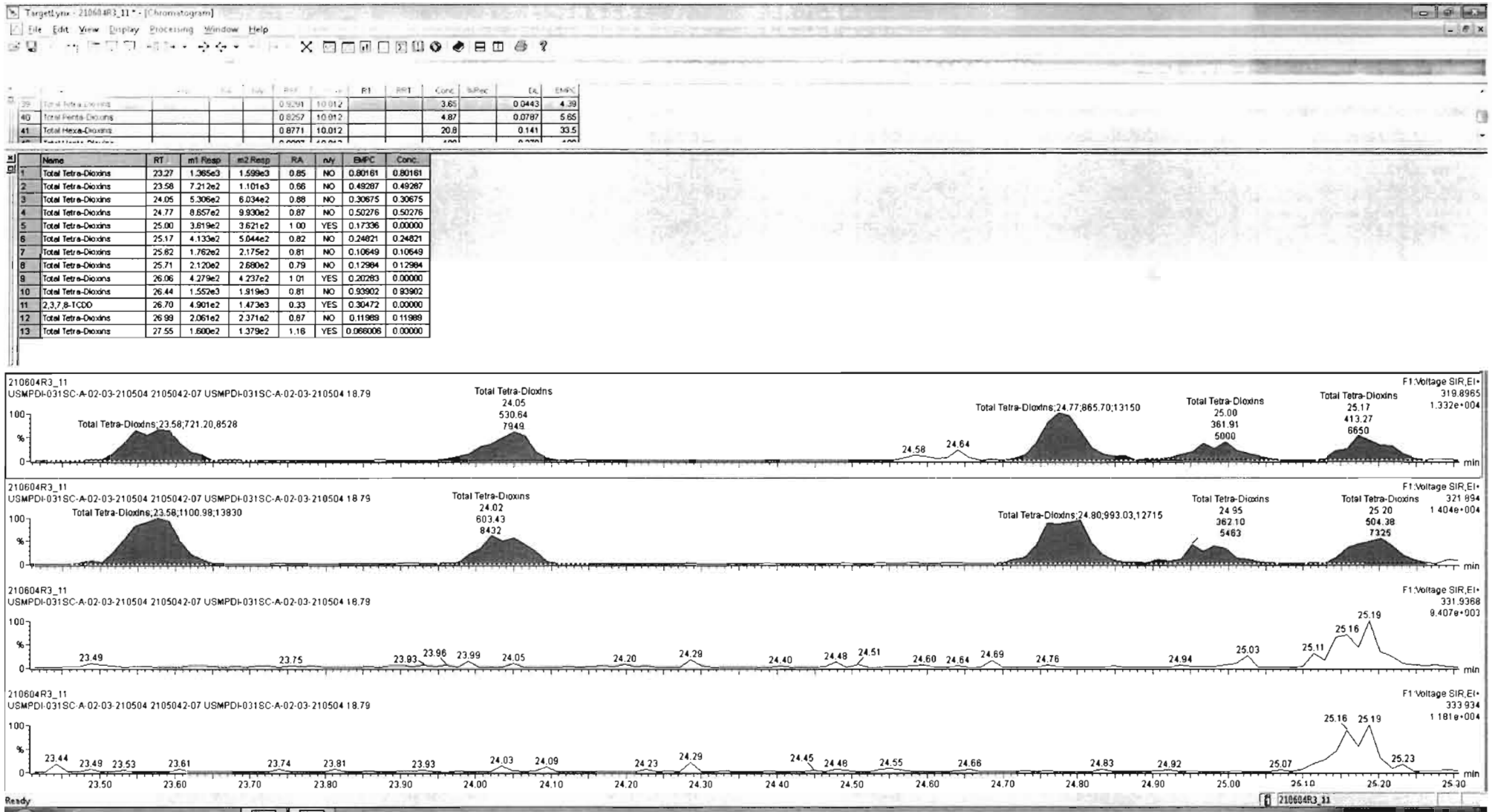
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2,3,7,8-TCDD



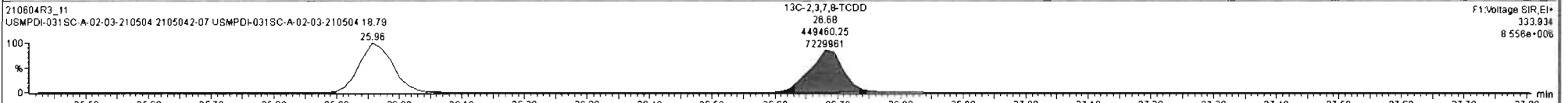
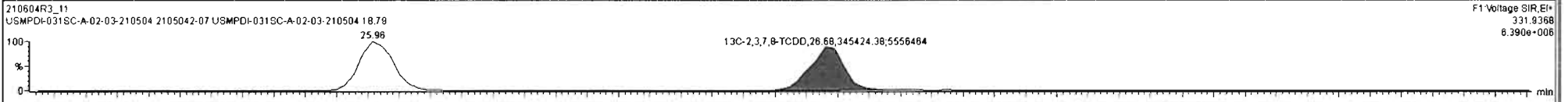
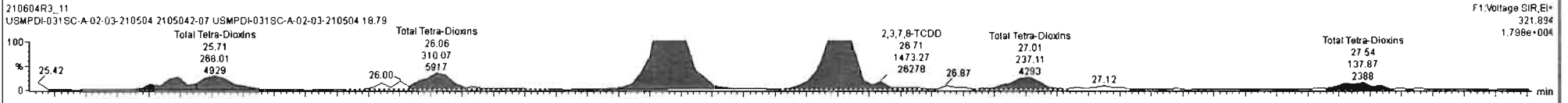
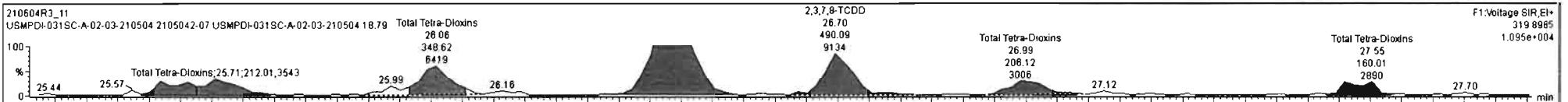
13C-2,3,7,8-TCDD





SP	Name	RT	RP1	Conc.	SRP1	DL	EMPC
39	Total Tetra-Dioxins	10.012		3.65		0.0443	4.34
40	Total Penta-Dioxins	10.012		4.87		0.0787	5.65
41	Total Hexa-Dioxins	10.012		20.8		0.141	33.5

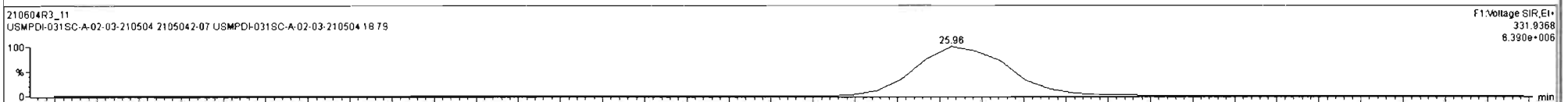
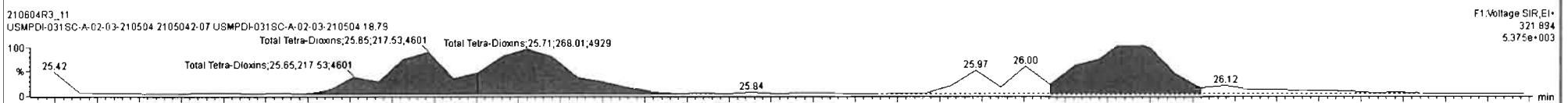
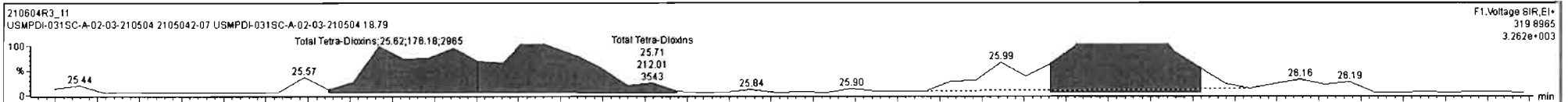
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.27	1.365e3	1.599e3	0.85	NO	0.80181	0.80181
2 Total Tetra-Dioxins	23.58	7.212e2	1.101e3	0.66	NO	0.49287	0.49287
3 Total Tetra-Dioxins	24.05	5.306e2	6.034e2	0.88	NO	0.30675	0.30675
4 Total Tetra-Dioxins	24.77	8.657e2	9.930e2	0.87	NO	0.50276	0.50276
5 Total Tetra-Dioxins	25.00	3.819e2	3.821e2	1.00	YES	0.17336	0.00000
6 Total Tetra-Dioxins	25.17	4.133e2	5.044e2	0.82	NO	0.24821	0.24821
7 Total Tetra-Dioxins	25.62	1.762e2	2.175e2	0.81	NO	0.10649	0.10649
8 Total Tetra-Dioxins	25.71	2.120e2	2.680e2	0.79	NO	0.12984	0.12984
9 Total Tetra-Dioxins	26.06	3.486e2	3.101e2	1.12	YES	0.14845	0.00000
10 Total Tetra-Dioxins	26.44	1.552e3	1.819e3	0.81	NO	0.93802	0.93802
11 2,3,7,8-TCDD	26.70	4.901e2	1.473e3	0.33	YES	0.30472	0.00000
12 Total Tetra-Dioxins	26.89	2.061e2	2.371e2	0.87	NO	0.11989	0.11989
13 Total Tetra-Dioxins	27.55	1.600e2	1.379e2	1.16	YES	0.06606	0.00000



Ready 210604R3_11

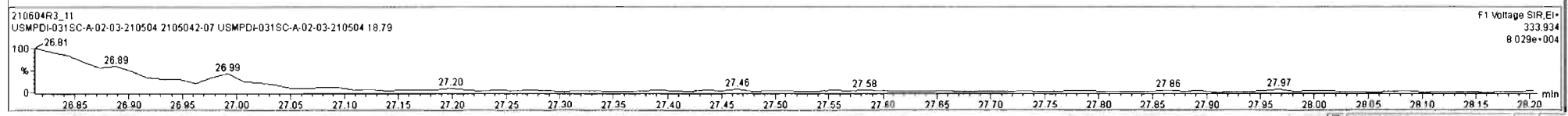
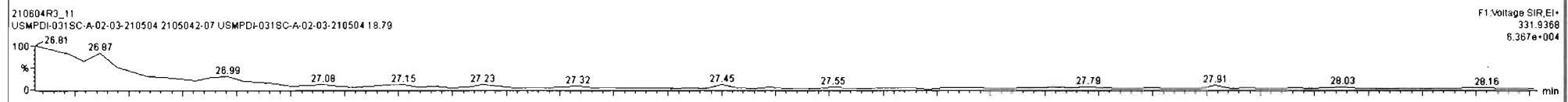
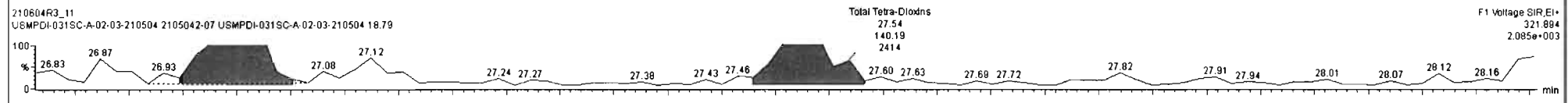
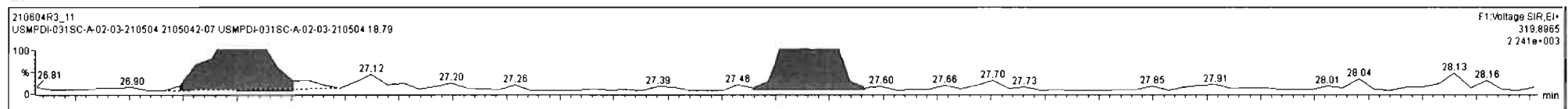
RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
40	0.8257	10.012	3.95		4.87	0.0443 4.34
41	0.8771	10.012	20.8			0.0787 5.65
42	0.8771	10.012	20.8			0.141 33.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.27	1.365e3	1.599e3	0.85	NO	0.80161	0.80161
2 Total Tetra-Dioxins	23.58	7.212e2	1.101e3	0.66	NO	0.49267	0.49267
3 Total Tetra-Dioxins	24.05	5.306e2	6.034e2	0.88	NO	0.30675	0.30675
4 Total Tetra-Dioxins	24.77	8.657e2	9.930e2	0.87	NO	0.50276	0.50276
5 Total Tetra-Dioxins	25.00	3.619e2	3.621e2	1.00	YES	0.17336	0.00000
6 Total Tetra-Dioxins	25.17	4.133e2	5.044e2	0.82	NO	0.24821	0.24821
7 Total Tetra-Dioxins	25.62	1.762e2	2.175e2	0.81	NO	0.10649	0.10649
8 Total Tetra-Dioxins	25.71	2.120e2	2.680e2	0.79	NO	0.12984	0.12984
9 Total Tetra-Dioxins	26.06	3.486e2	3.101e2	1.12	YES	0.14845	0.00000
10 Total Tetra-Dioxins	26.44	1.552e3	1.919e3	0.81	NO	0.93902	0.93902
11 2,3,7,8-TCDD	26.70	4.901e2	1.473e3	0.33	YES	0.30472	0.00000
12 Total Tetra-Dioxins	26.99	2.061e2	2.371e2	0.87	NO	0.11989	0.11989
13 Total Tetra-Dioxins	27.55	1.600e2	1.379e2	1.16	YES	0.066006	0.00000



RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
23.27	1.365e2	1.599e3	0.85	NO	0.80161	0.80161
23.58	7.212e2	1.101e3	0.66	NO	0.49287	0.49287
24.05	5.306e2	6.034e2	0.88	NO	0.30675	0.30675
24.77	8.657e2	9.930e2	0.87	NO	0.50276	0.50276
25.00	3.819e2	3.821e2	1.00	YES	0.17398	0.00000
25.17	4.133e2	5.044e2	0.82	NO	0.24821	0.24821
25.62	1.762e2	2.175e2	0.81	NO	0.10649	0.10649
25.71	2.120e2	2.680e2	0.79	NO	0.12984	0.12984
26.06	3.486e2	3.101e2	1.12	YES	0.14845	0.00000
26.44	1.552e3	1.919e3	0.81	NO	0.93902	0.93902
26.70	4.901e2	1.473e3	0.33	YES	0.30472	0.00000
26.99	1.902e2	2.251e2	0.84	NO	0.11232	0.11232
27.55	1.600e2	1.402e2	1.14	YES	0.067116	0.00000

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.27	1.365e2	1.599e3	0.85	NO	0.80161	0.80161
2 Total Tetra-Dioxins	23.58	7.212e2	1.101e3	0.66	NO	0.49287	0.49287
3 Total Tetra-Dioxins	24.05	5.306e2	6.034e2	0.88	NO	0.30675	0.30675
4 Total Tetra-Dioxins	24.77	8.657e2	9.930e2	0.87	NO	0.50276	0.50276
5 Total Tetra-Dioxins	25.00	3.819e2	3.821e2	1.00	YES	0.17398	0.00000
6 Total Tetra-Dioxins	25.17	4.133e2	5.044e2	0.82	NO	0.24821	0.24821
7 Total Tetra-Dioxins	25.62	1.762e2	2.175e2	0.81	NO	0.10649	0.10649
8 Total Tetra-Dioxins	25.71	2.120e2	2.680e2	0.79	NO	0.12984	0.12984
9 Total Tetra-Dioxins	26.06	3.486e2	3.101e2	1.12	YES	0.14845	0.00000
10 Total Tetra-Dioxins	26.44	1.552e3	1.919e3	0.81	NO	0.93902	0.93902
11 2,3,7,8-TCDD	26.70	4.901e2	1.473e3	0.33	YES	0.30472	0.00000
12 Total Tetra-Dioxins	26.99	1.902e2	2.251e2	0.84	NO	0.11232	0.11232
13 Total Tetra-Dioxins	27.55	1.600e2	1.402e2	1.14	YES	0.067116	0.00000



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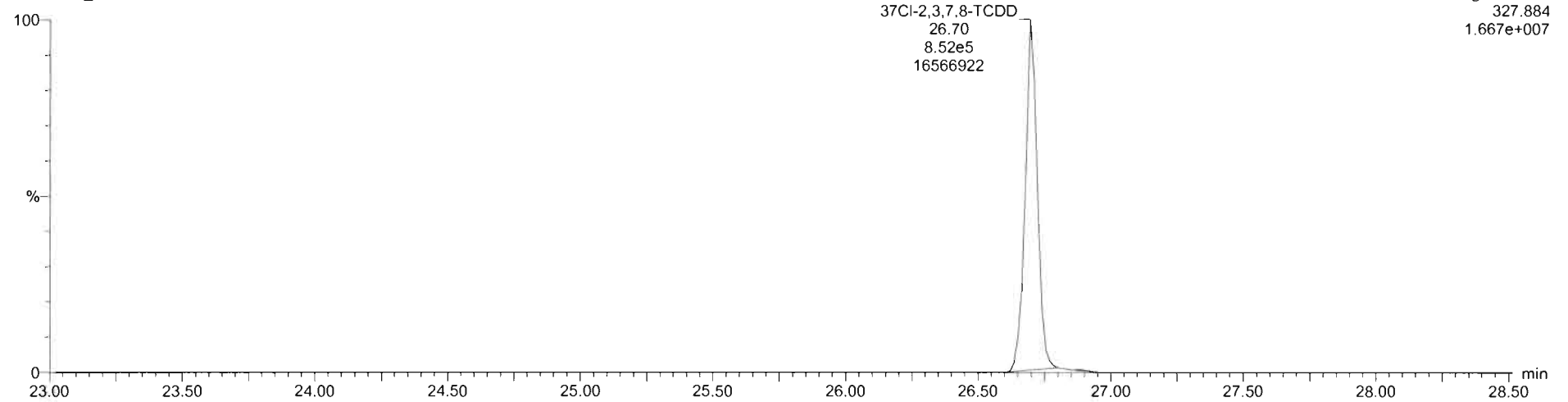
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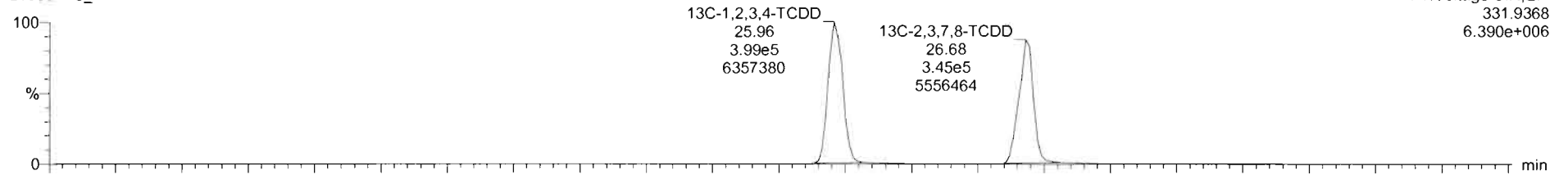
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210604R3_11

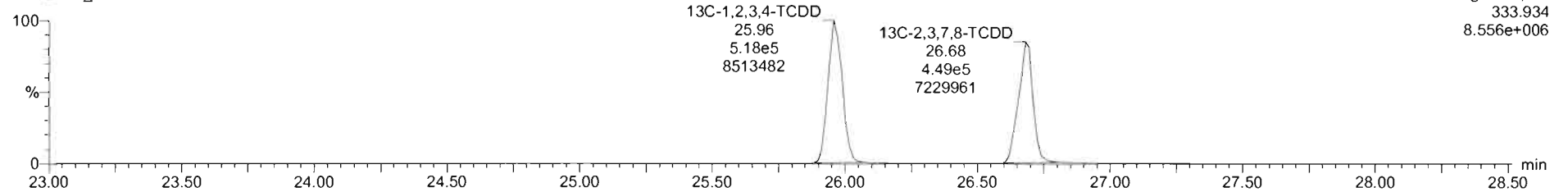


13C-1,2,3,4-TCDD

210604R3_11



210604R3_11



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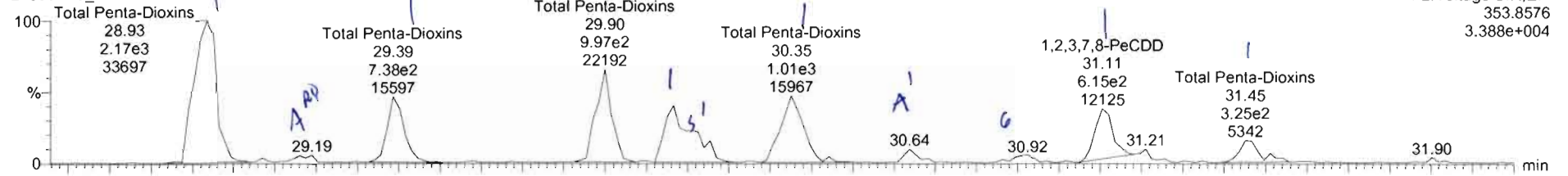
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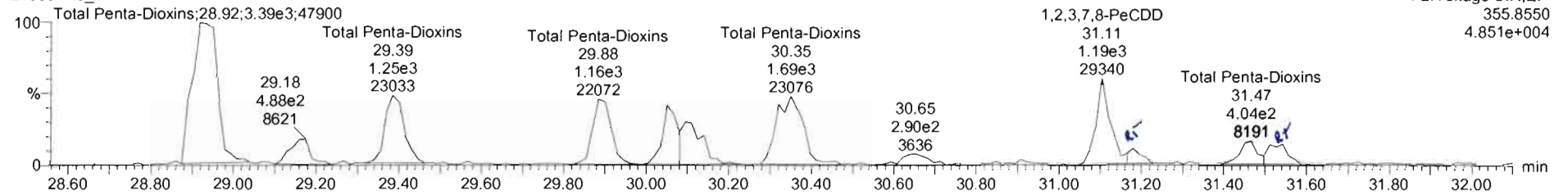
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210604R3_11



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353.8576
3.388e+004

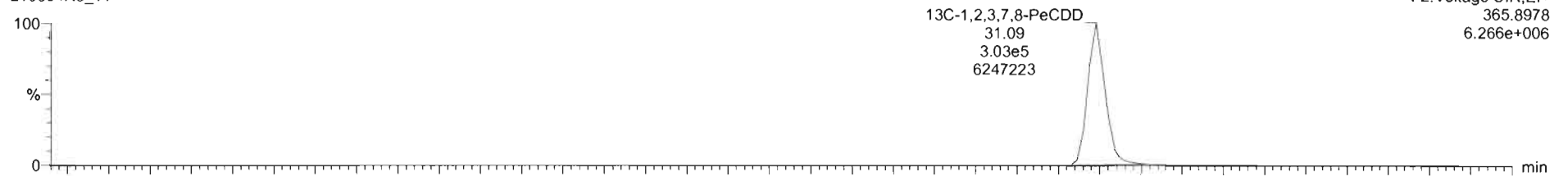
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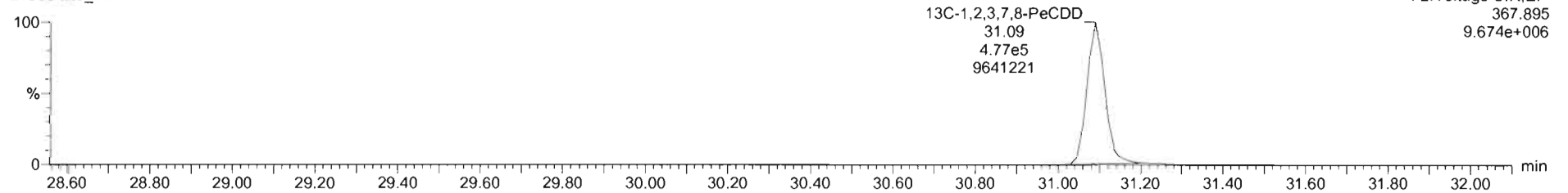
13C-1,2,3,7,8-PeCDD

210604R3_11



F2:Voltage SIR,EI+
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6.266e+006

210604R3_11

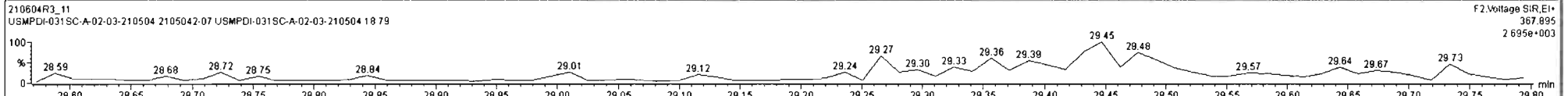
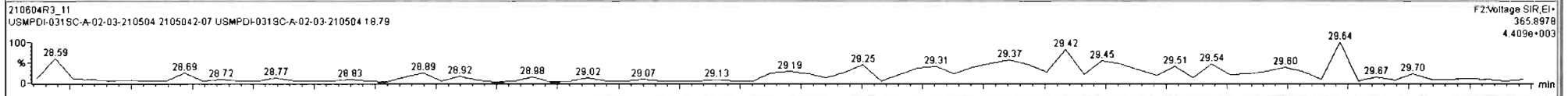
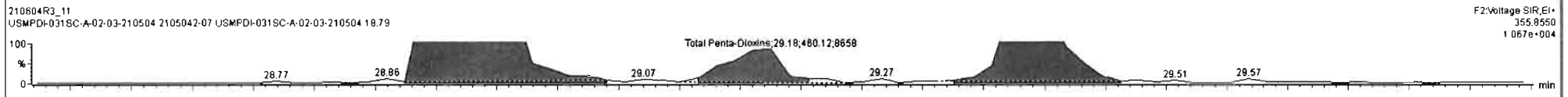
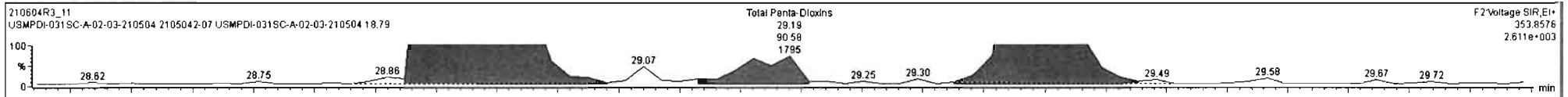


F2:Voltage SIR,EI+
367.895
9.674e+006

210604R3_11 - 2105042-07 USMPDI-031SC-A-02-03-210504 18 79 - USMPDI-031SC-A-02-03-210504

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.012			3.64		0.0443	4.19
40 Total Penta-Dioxins				0.8257	10.012			4.96		0.0787	5.65
41 Total Hexa-Dioxins				0.8771	10.012			20.8		0.141	33.5

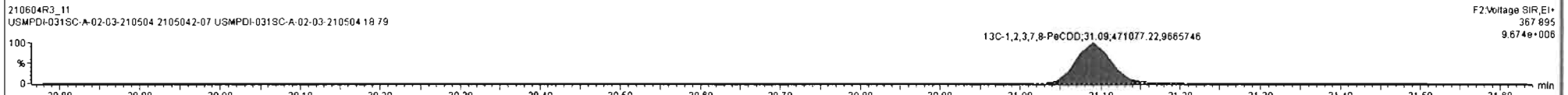
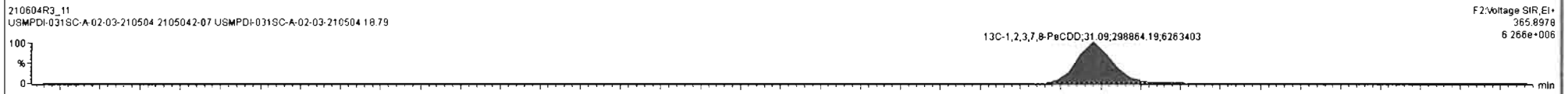
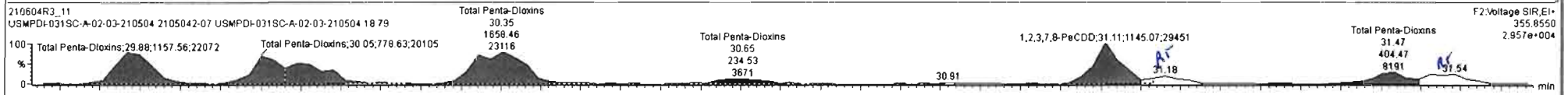
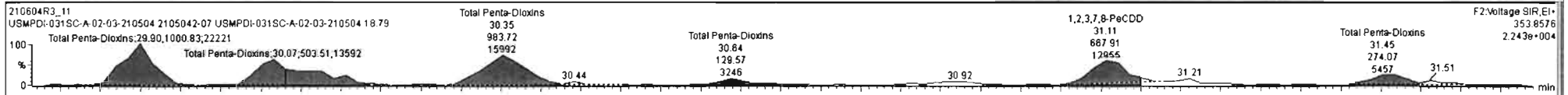
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.93	2.160e3	3.477e3	0.62	NO	1.7714	1.7714
2 Total Penta-Dioxins	29.19	9.059e1	4.601e2	0.20	YES	0.073639	0.00000
3 Total Penta-Dioxins	29.39	7.386e2	1.305e3	0.57	NO	0.84206	0.64206
4 Total Penta-Dioxins	29.90	1.001e3	1.159e3	0.86	YES	0.58294	0.00000
5 Total Penta-Dioxins	30.07	5.035e2	7.798e2	0.65	NO	0.40285	0.40285
6 Total Penta-Dioxins	30.08	5.531e2	8.458e2	0.65	NO	0.43955	0.43955
7 Total Penta-Dioxins	30.35	8.837e2	1.658e3	0.59	NO	0.83017	0.83017
8 Total Penta-Dioxins	30.64	1.286e2	2.345e2	0.55	NO	0.11440	0.11440
9 1,2,3,7,8-PeCDD	31.11	6.679e2	1.145e3	0.58	NO	0.56964	0.56964
10 Total Penta-Dioxins	31.45	2.741e2	4.045e2	0.68	NO	0.21320	0.21320

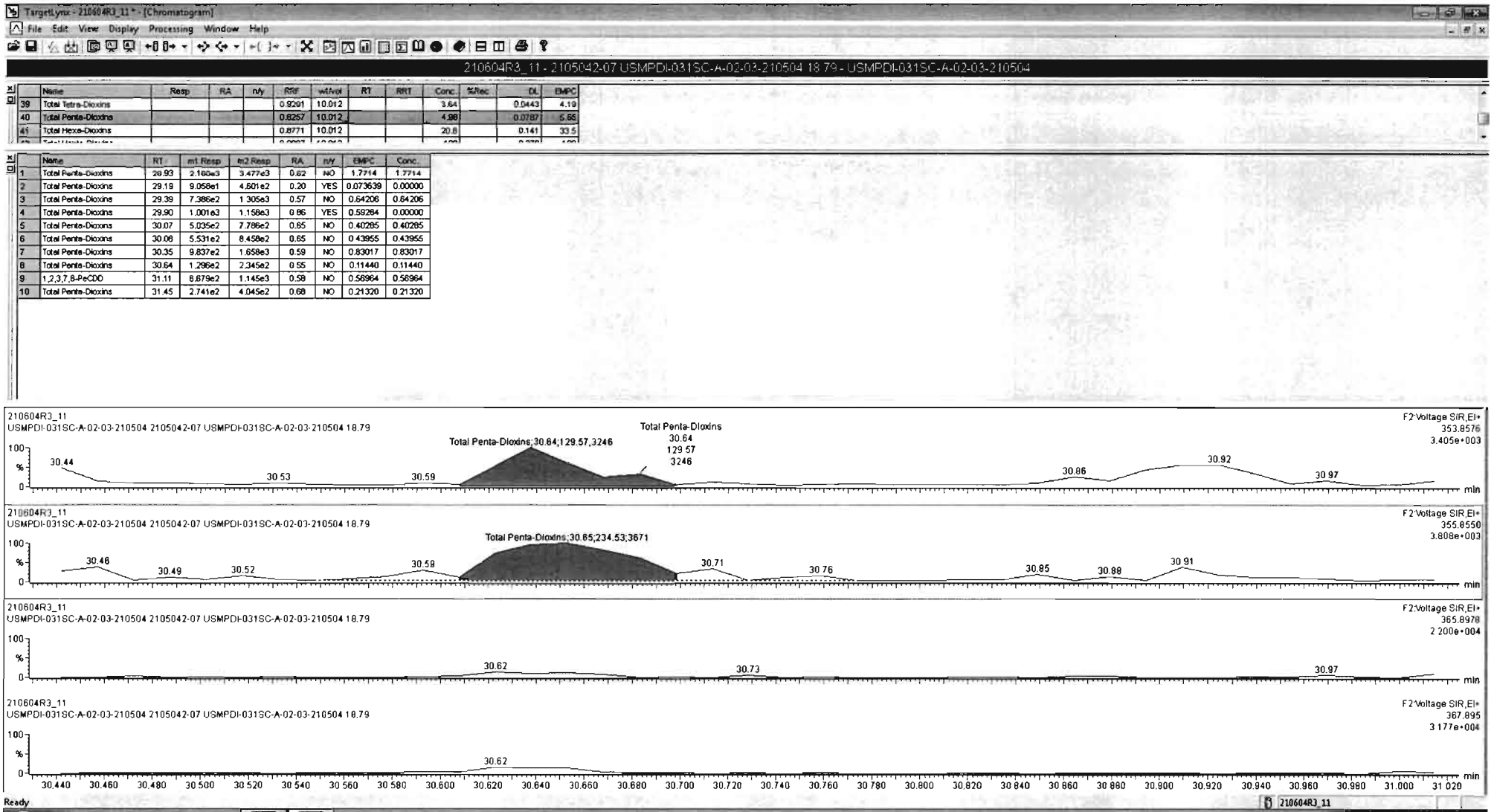


210604R3_11 - 2105042-07 USMPDI-031SC-A-02-03-210504 18.79 - USMPDI-031SC-A-02-03-210504

Name	Resp	RA	n/y	RRF	wAval	RT	FRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.012			3.64		0.0443	4.19
40 Total Penta-Dioxins				0.8257	10.012			4.96		0.0787	5.65
41 Total Hexa-Dioxins				0.8771	10.012			20.8		0.141	33.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.93	2.160e3	3.477e3	0.62	NO	1.7714	1.7714
2 Total Penta-Dioxins	29.19	9.058e2	4.601e2	0.20	YES	0.073639	0.00000
3 Total Penta-Dioxins	29.39	7.386e2	1.305e3	0.57	NO	0.64206	0.64206
4 Total Penta-Dioxins	29.90	1.001e3	1.158e3	0.86	YES	0.58284	0.00000
5 Total Penta-Dioxins	30.07	5.035e2	7.786e2	0.85	NO	0.40285	0.40285
6 Total Penta-Dioxins	30.08	5.531e2	8.458e2	0.65	NO	0.43955	0.43955
7 Total Penta-Dioxins	30.35	9.837e2	1.658e3	0.59	NO	0.83017	0.83017
8 Total Penta-Dioxins	30.64	1.296e2	2.345e2	0.55	NO	0.11440	0.11440
9 1,2,3,7,8-PeCDD	31.11	6.679e2	1.145e3	0.58	NO	0.56964	0.56964
10 Total Penta-Dioxins	31.45	2.741e2	4.045e2	0.68	NO	0.21320	0.21320



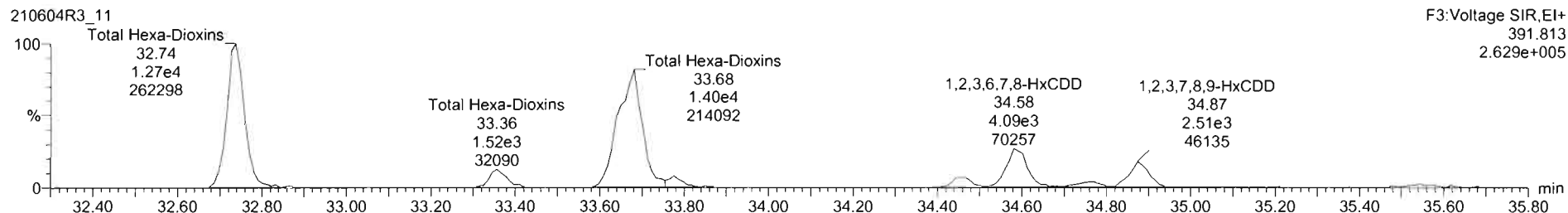
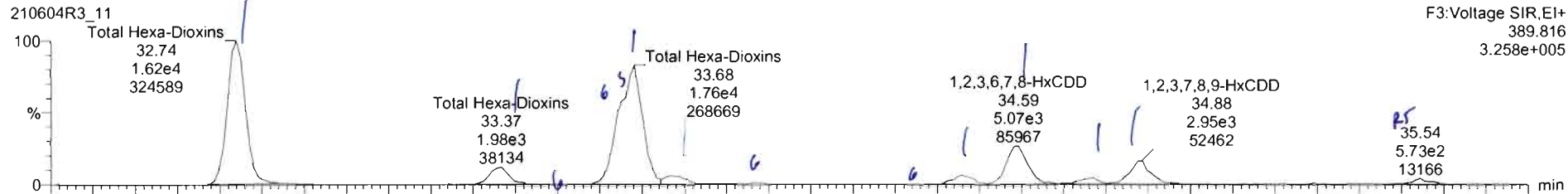


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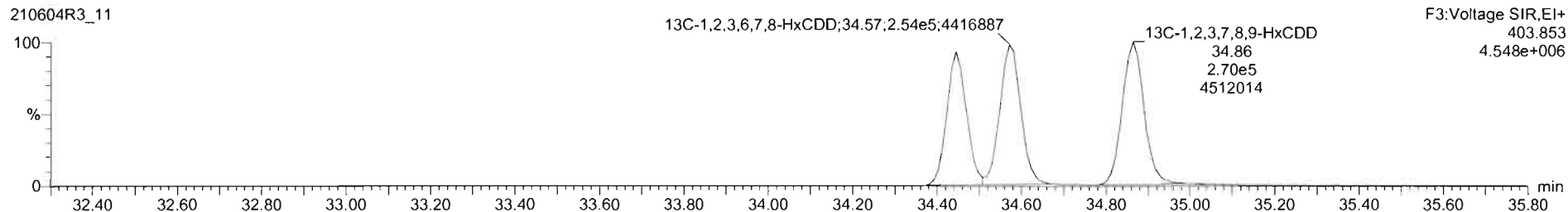
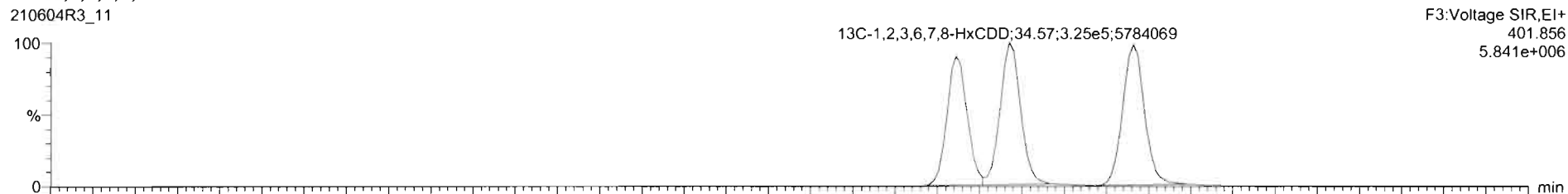
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Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD



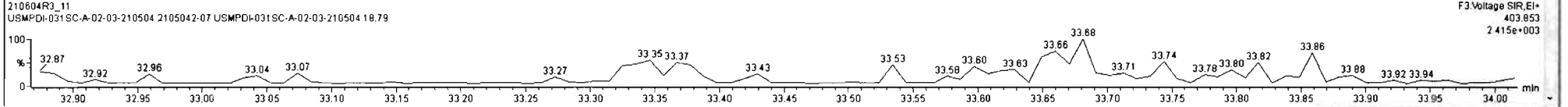
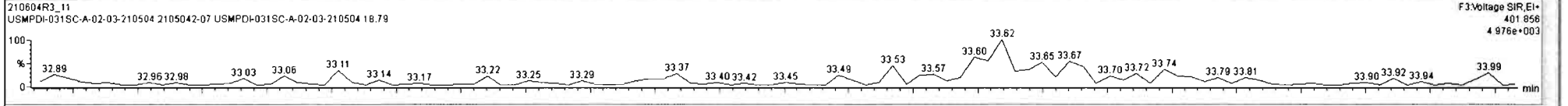
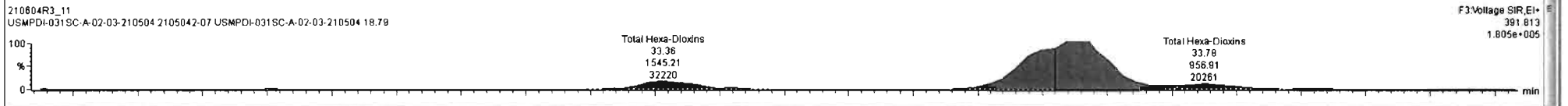
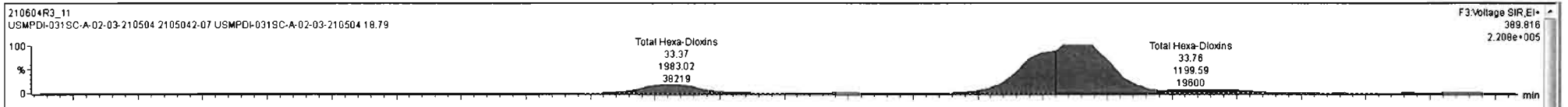
Targetlynx - 210604R3_11 - (Chromatogram)

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210604R3_11 - 2105042-07 USMPDI-031SC-A-02-03-210504 18.79 - USMPDI-031SC-A-02-03-210504

Name	Resp	RA	n/y	Rt/F	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.012			3.64		0.0443	4.19
40 Total Penta-Dioxins				0.8257	10.012			4.98		0.0787	5.06
41 Total Hexa-Dioxins				0.6773	10.012			20.8		0.141	33.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.74	1.520e4	1.275e4	1.27	NO	11.582	11.582
2 Total Hexa-Dioxins	33.37	1.983e3	1.545e3	1.28	NO	1.4117	1.4117
3 Total Hexa-Dioxins	33.66	6.304e3	5.151e3	1.22	NO	4.5837	0.00000
4 Total Hexa-Dioxins	33.68	1.131e4	8.790e3	1.29	NO	8.0408	0.00000
5 Total Hexa-Dioxins	33.76	1.200e3	9.569e2	1.25	NO	0.86283	0.96283
6 1,2,3,4,7,8-HxCDD	34.46	1.145e3	9.285e2	1.23	NO	0.82431	0.82431
7 1,2,3,6,7,8-HxCDD	34.59	5.066e3	4.087e3	1.24	NO	3.6044	3.6044
8 Total Hexa-Dioxins	34.77	7.135e2	5.955e2	1.20	NO	0.52378	0.52378
9 1,2,3,7,8,9-HxCDD	34.88	2.952e3	2.493e3	1.18	NO	2.0325	2.0325



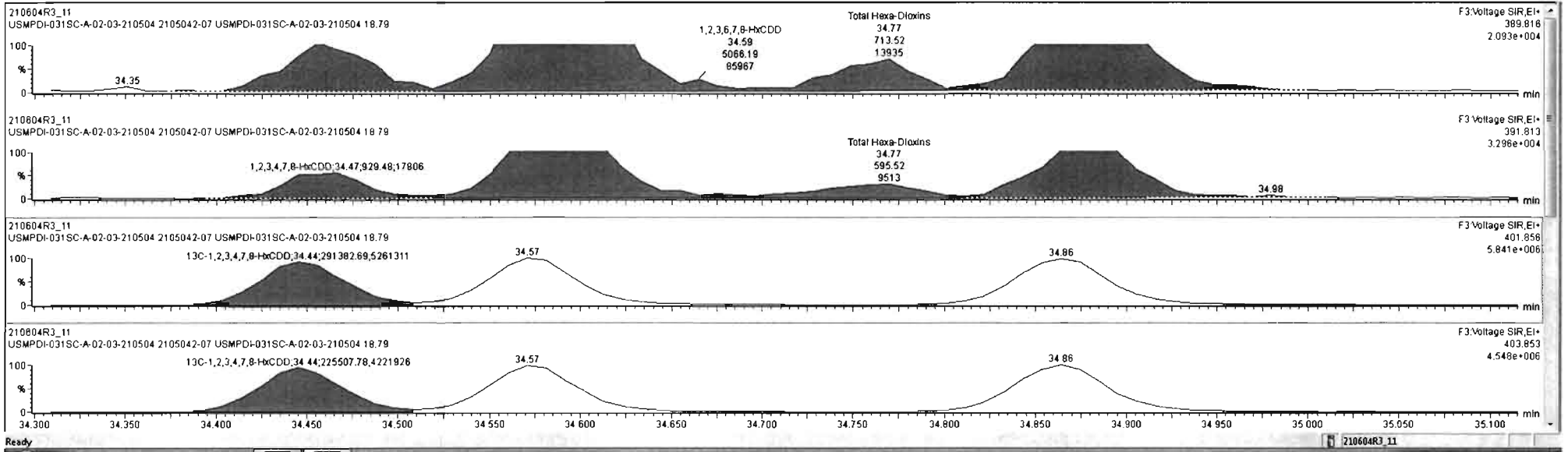
TargetLynx - 210604R3_11 - (Chromatogram)

File Edit View Display Processing Window Help

210604R3_11 - 2105042-07 USMPDI-031SC-A-02-03-210504 18.79 - USMPDI-031SC-A-02-03-210504

Name	Resp	RA	m1	RRF	width	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.0291	10.012			3.84		0.0443	4.19
40 Total Penta-Dioxins				0.8257	10.012			4.98		0.0787	5.06
41 Total Hexa-Dioxins				0.8771	10.012			20.8		0.141	33.5

Name	RT	m1 Resp	m2 Resp	RA	m1	EMPC	Conc.
1 Total Hexa-Dioxins	32.74	1.820e4	1.275e4	1.27	NO	11.582	11.582
2 Total Hexa-Dioxins	33.37	1.983e3	1.545e3	1.28	NO	1.4117	1.4117
3 Total Hexa-Dioxins	33.66	6.304e3	5.151e3	1.22	NO	4.5837	0.00000
4 Total Hexa-Dioxins	33.68	1.131e4	8.790e3	1.29	NO	8.0409	0.00000
5 Total Hexa-Dioxins	33.76	1.200e3	9.588e2	1.25	NO	0.86283	0.86283
6 1,2,3,4,7,8-HxCDD	34.46	1.145e3	9.285e2	1.23	NO	0.82431	0.82431
7 1,2,3,6,7,8-HxCDD	34.59	5.066e3	4.087e3	1.24	NO	3.6044	3.6044
8 Total Hexa-Dioxins	34.77	7.135e2	5.955e2	1.20	NO	0.52378	0.52378
9 1,2,3,7,8,9-HxCDD	34.86	2.952e3	2.453e3	1.18	NO	2.0325	2.0325



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_11.qld

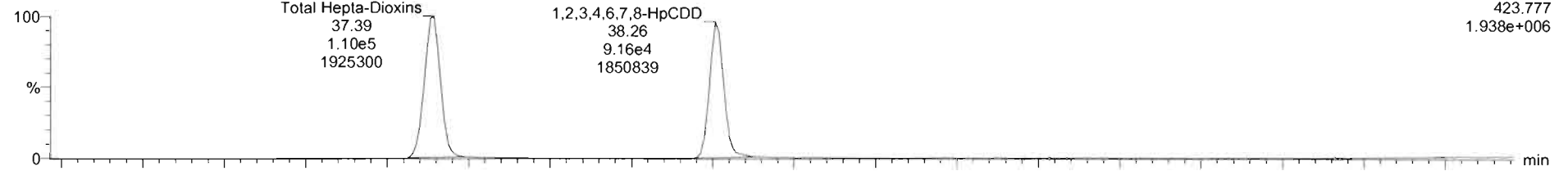
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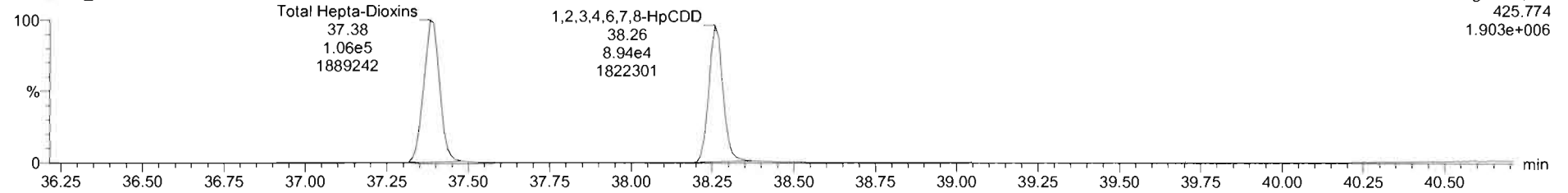
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1,2,3,4,6,7,8-HpCDD

210604R3_11

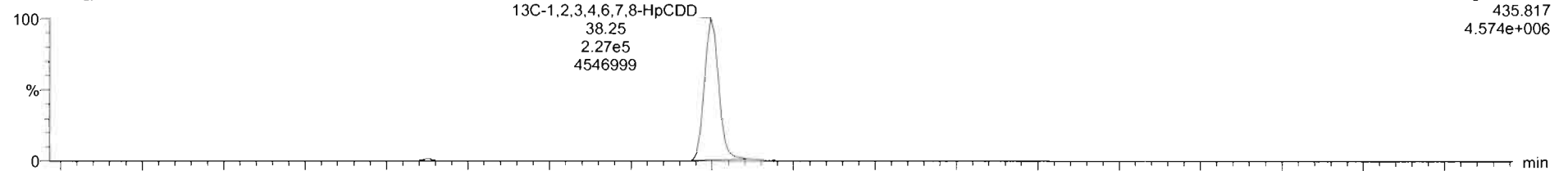


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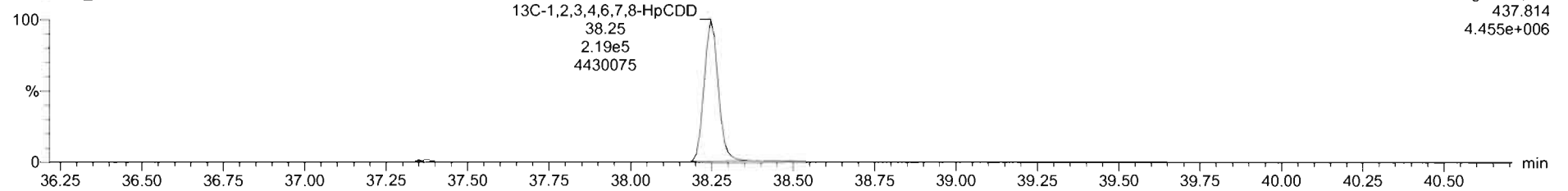


13C-1,2,3,4,6,7,8-HpCDD

210604R3_11



210604R3_11



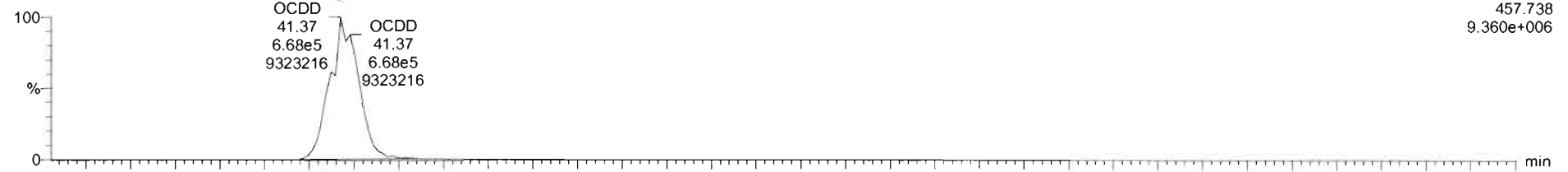
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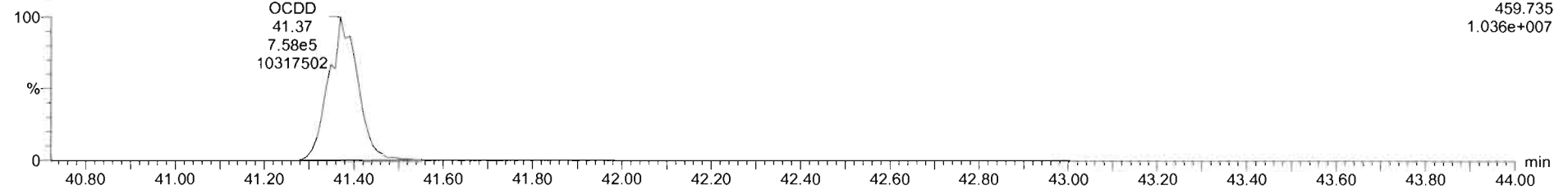
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OCDD

210604R3_11

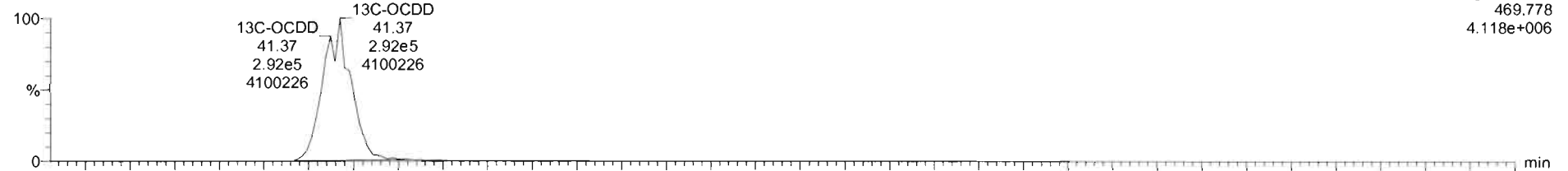


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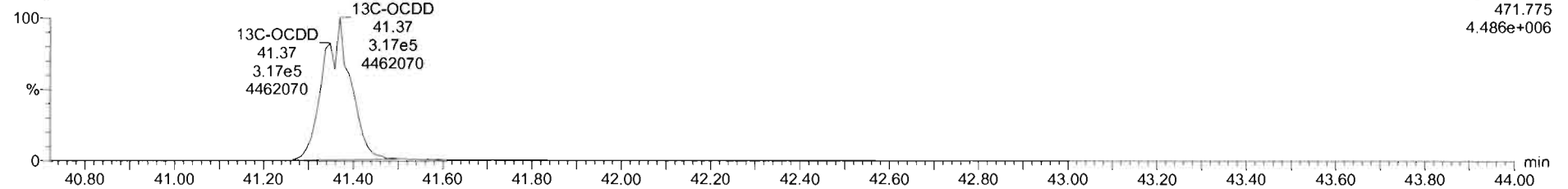


13C-OCDD

210604R3_11



210604R3_11

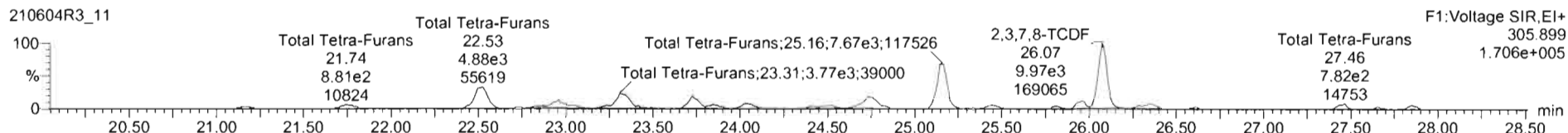
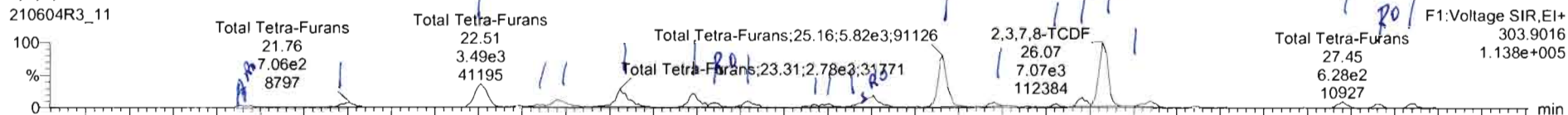


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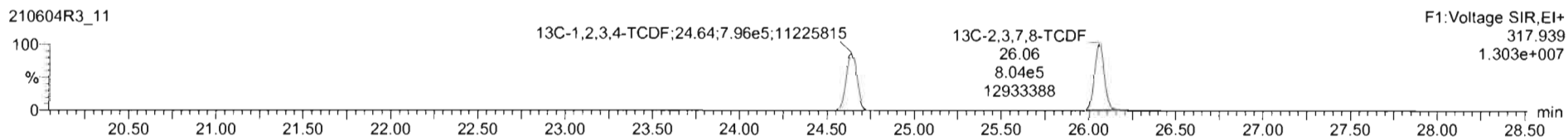
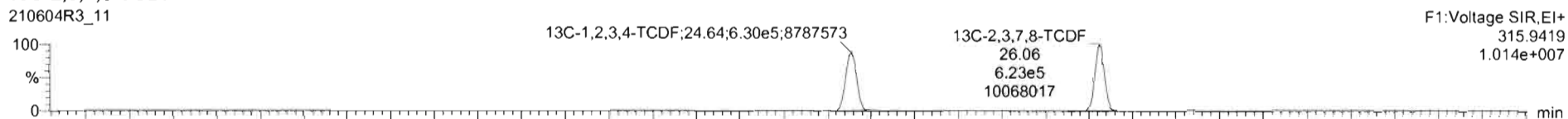
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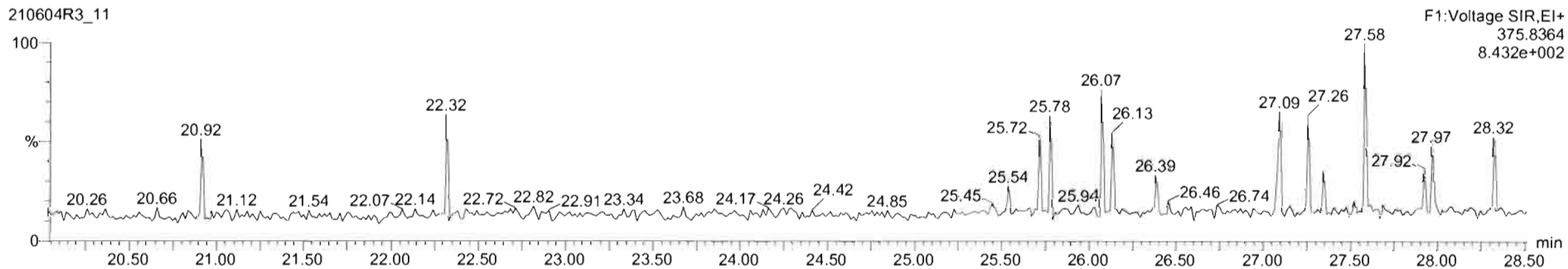
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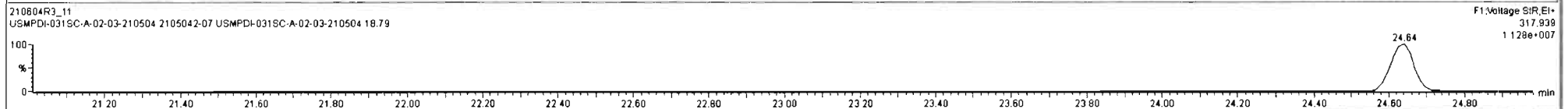
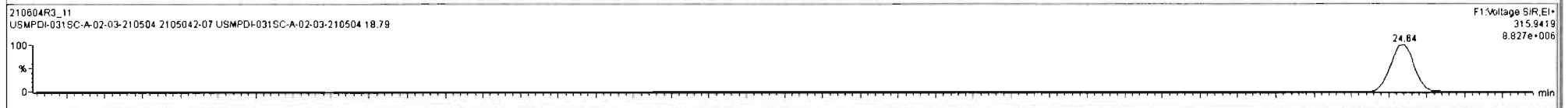
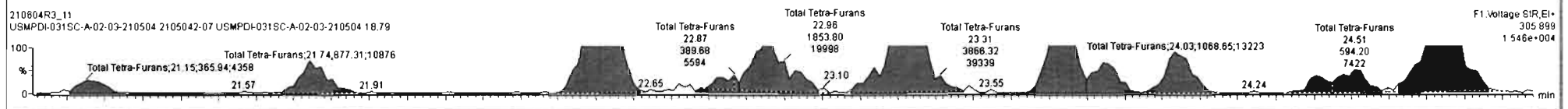
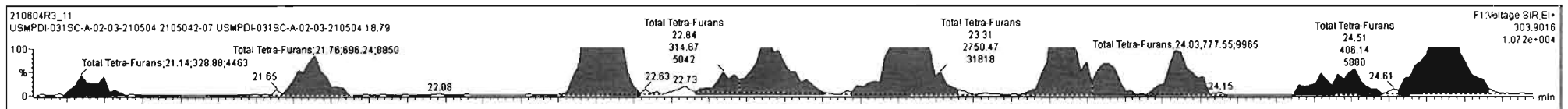


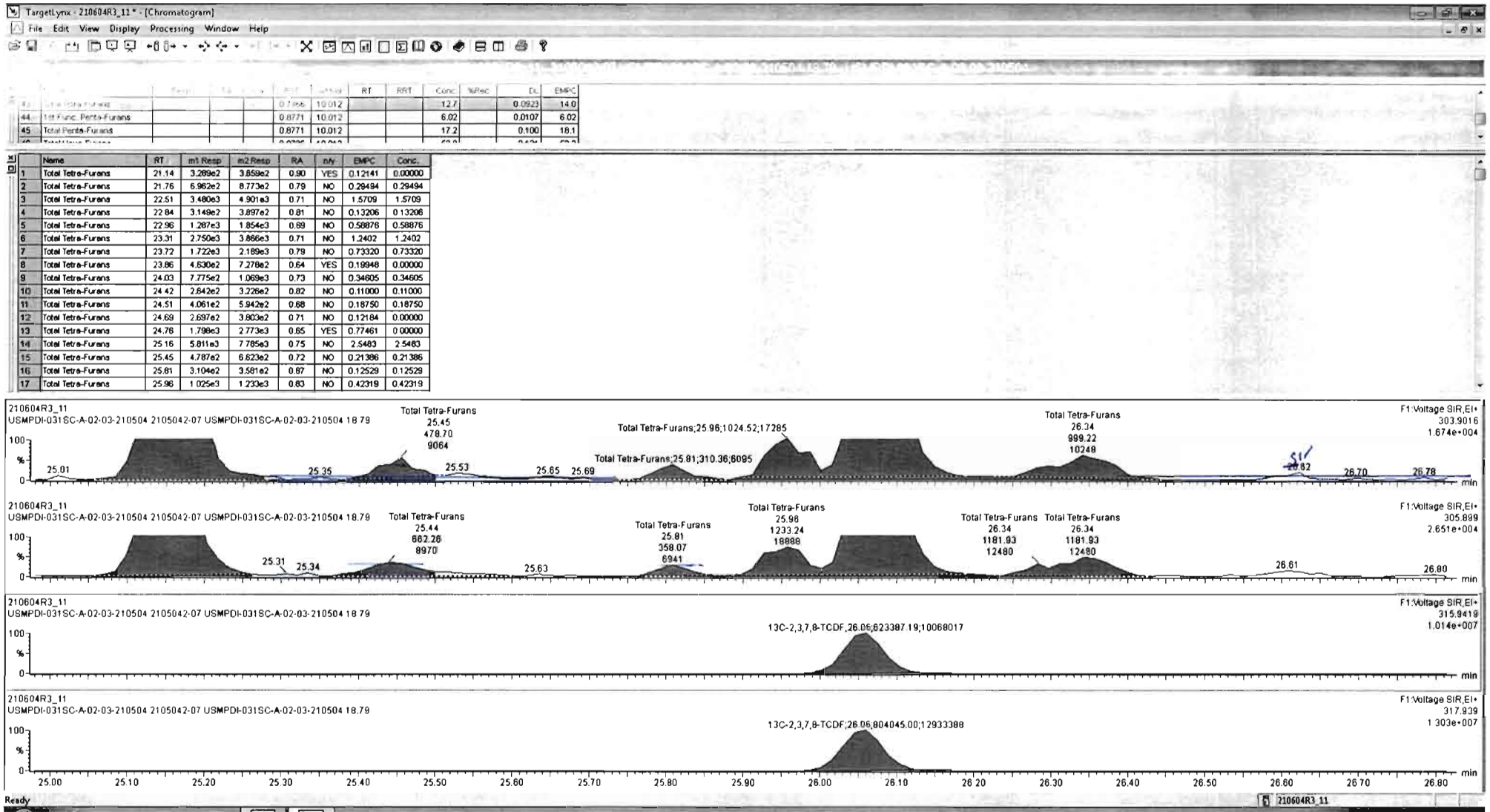
DPE1



Name	Resp	RA	n/y	RF	nd/nd	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.012			12.7		0.0923	14.0
44 1st Func. Penta-Furans				0.8771	10.012			6.02		0.0107	6.02
45 Total Penta-Furans				0.8771	10.012			17.2		0.100	18.1

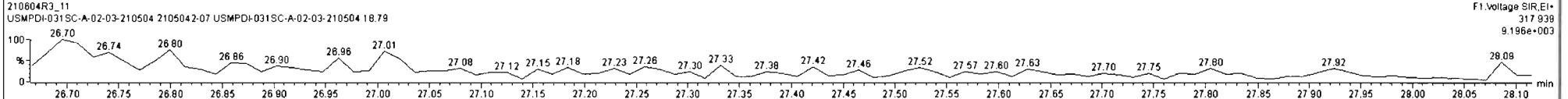
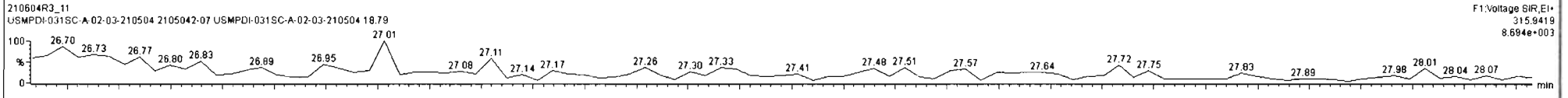
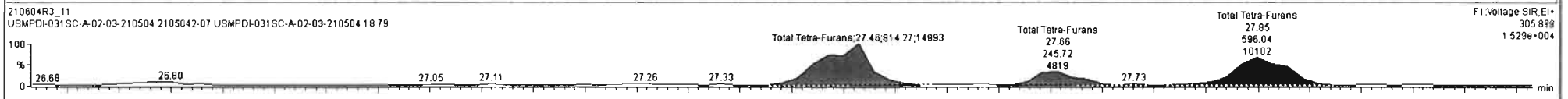
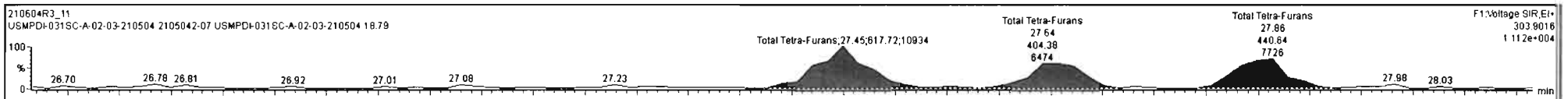
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.14	3.209e2	3.859e2	0.90	YES	0.12141	0.00000
2 Total Tetra-Furans	21.76	6.962e2	8.773e2	0.79	NO	0.29494	0.29494
3 Total Tetra-Furans	22.51	3.480e3	4.901e3	0.71	NO	1.5709	1.5709
4 Total Tetra-Furans	22.84	3.149e2	3.897e2	0.81	NO	0.13206	0.13206
5 Total Tetra-Furans	22.96	1.267e3	1.854e3	0.69	NO	0.58876	0.58876
6 Total Tetra-Furans	23.31	2.750e3	3.865e3	0.71	NO	1.2402	1.2402
7 Total Tetra-Furans	23.72	1.722e3	2.189e3	0.79	NO	0.73320	0.73320
8 Total Tetra-Furans	23.86	4.630e2	7.278e2	0.64	YES	0.19948	0.00000
9 Total Tetra-Furans	24.03	7.775e2	1.069e3	0.73	NO	0.34605	0.34605
10 Total Tetra-Furans	24.42	2.642e2	3.226e2	0.82	NO	0.11000	0.11000
11 Total Tetra-Furans	24.51	4.061e2	5.942e2	0.68	NO	0.18750	0.18750
12 Total Tetra-Furans	24.69	2.697e2	3.803e2	0.71	NO	0.12184	0.00000
13 Total Tetra-Furans	24.76	1.798e3	2.773e3	0.65	YES	0.77461	0.00000
14 Total Tetra-Furans	25.16	5.823e3	7.767e3	0.75	NO	2.5472	2.5472
15 Total Tetra-Furans	25.45	4.685e2	6.568e2	0.71	NO	0.21093	0.21093
16 Total Tetra-Furans	25.81	3.062e2	3.581e2	0.86	NO	0.12489	0.12489





RT	Area	Height	Width	Area%	Height%	Width%	Conc	EMPC
12.7							0.0923	14.0
6.02							0.0107	6.02
17.2							0.100	18.1

Name	RT	m1 Resp	m2 Resp	RA	WY	EMPC	Conc
1 Total Tetra-Furans	21.14	3.269e2	3.859e2	0.90	YES	0.12141	0.00000
2 Total Tetra-Furans	21.76	6.962e2	8.773e2	0.79	NO	0.29494	0.29494
3 Total Tetra-Furans	22.51	3.480e3	4.901e3	0.71	NO	1.5709	1.5709
4 Total Tetra-Furans	22.84	3.149e2	3.897e2	0.81	NO	0.13206	0.13206
5 Total Tetra-Furans	22.96	1.267e3	1.854e3	0.69	NO	0.58878	0.58878
6 Total Tetra-Furans	23.31	2.759e3	3.866e3	0.71	NO	1.2402	1.2402
7 Total Tetra-Furans	23.72	1.722e3	2.189e3	0.79	NO	0.73320	0.73320
8 Total Tetra-Furans	23.86	4.630e2	7.278e2	0.64	YES	0.19948	0.00000
9 Total Tetra-Furans	24.03	7.775e2	1.069e3	0.73	NO	0.34605	0.34605
10 Total Tetra-Furans	24.42	2.642e2	3.225e2	0.82	NO	0.11000	0.11000
11 Total Tetra-Furans	24.51	4.061e2	5.842e2	0.68	NO	0.18750	0.18750
12 Total Tetra-Furans	24.69	2.697e2	3.803e2	0.71	NO	0.12184	0.00000
13 Total Tetra-Furans	24.78	1.798e3	2.773e3	0.65	YES	0.77461	0.00000
14 Total Tetra-Furans	25.16	5.811e3	7.785e3	0.75	NO	2.5483	2.5483
15 Total Tetra-Furans	25.45	4.787e2	6.623e2	0.72	NO	0.21388	0.21388
16 Total Tetra-Furans	25.81	3.104e2	3.581e2	0.87	NO	0.12529	0.12529
17 Total Tetra-Furans	25.96	1.025e3	1.233e3	0.83	NO	0.42319	0.42319



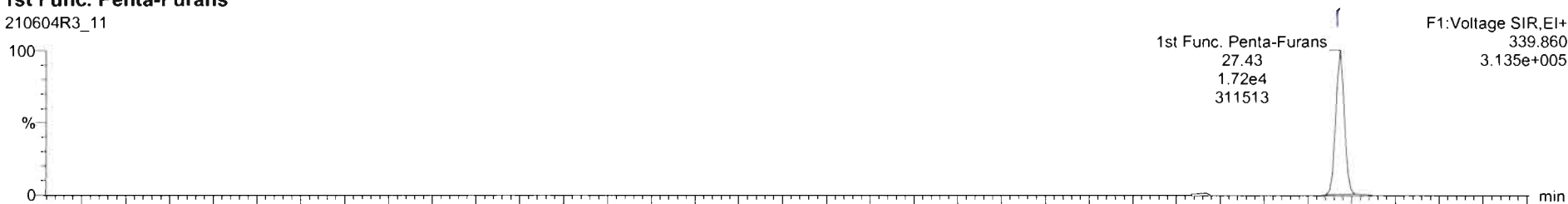
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Printed: Saturday, June 05, 2021 10:32:36 AM Pacific Daylight Time

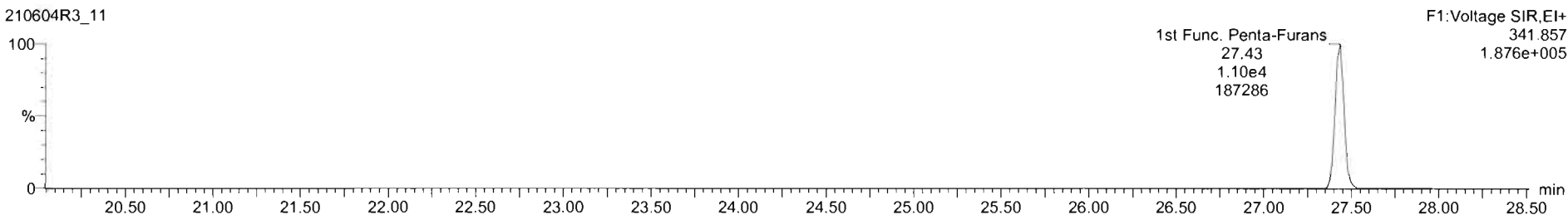
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1st Func. Penta-Furans

210604R3_11

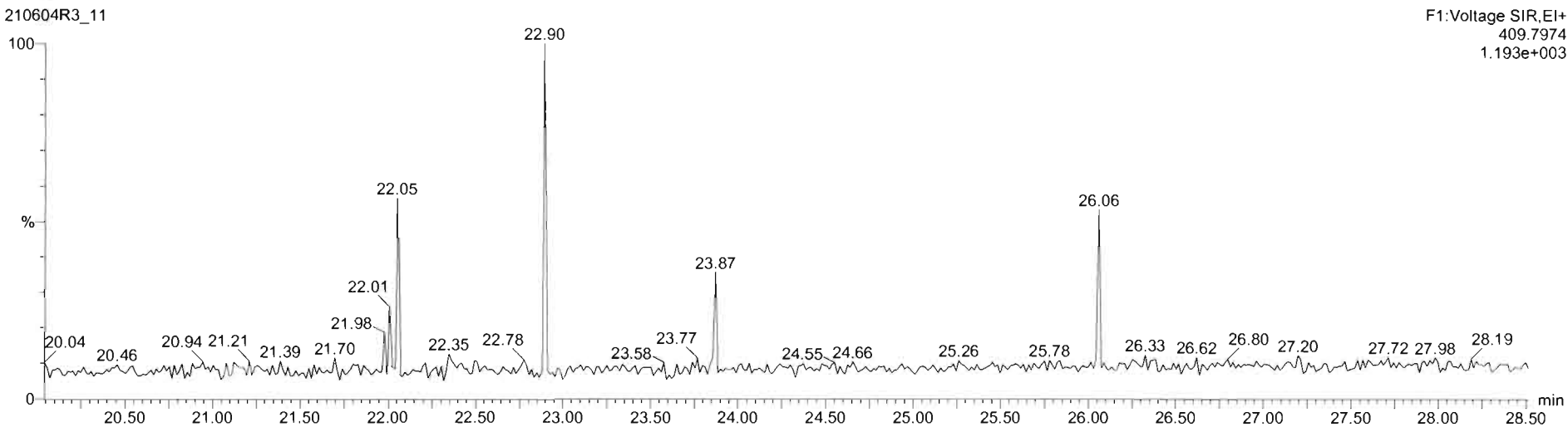


210604R3_11



DPE6

210604R3_11

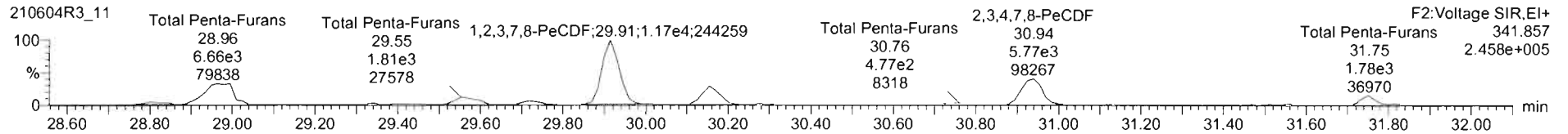
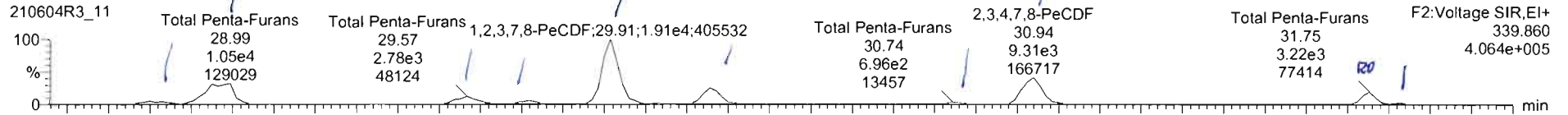


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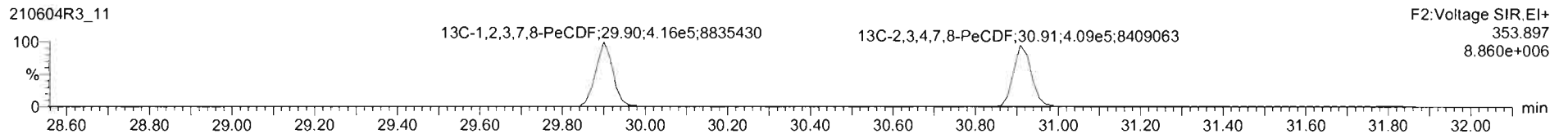
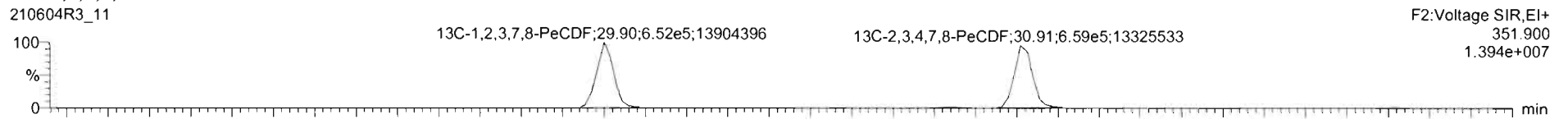
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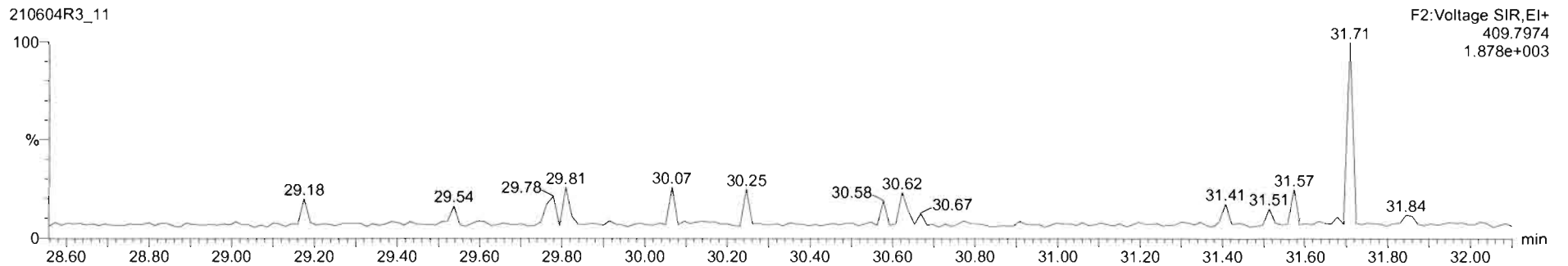
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13C-1,2,3,7,8-PeCDF

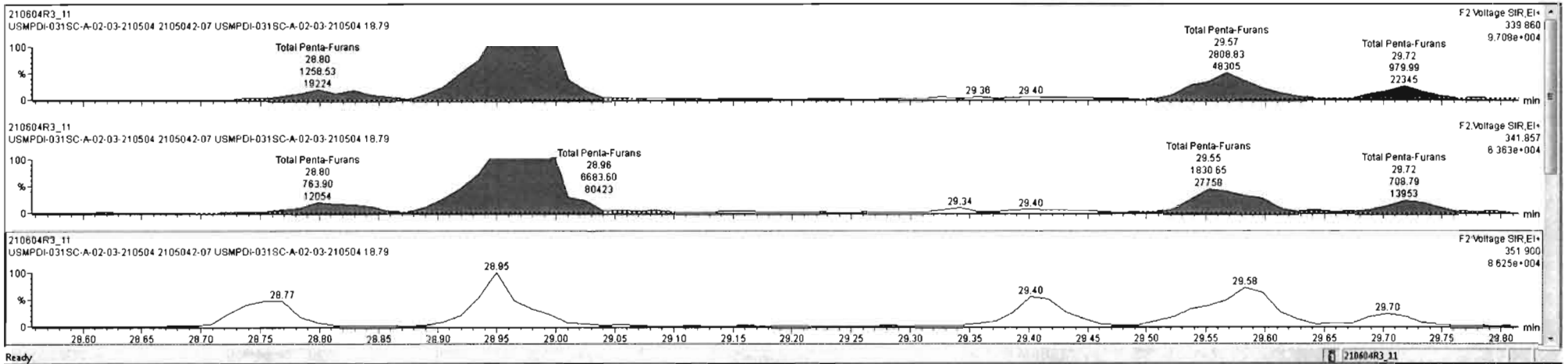


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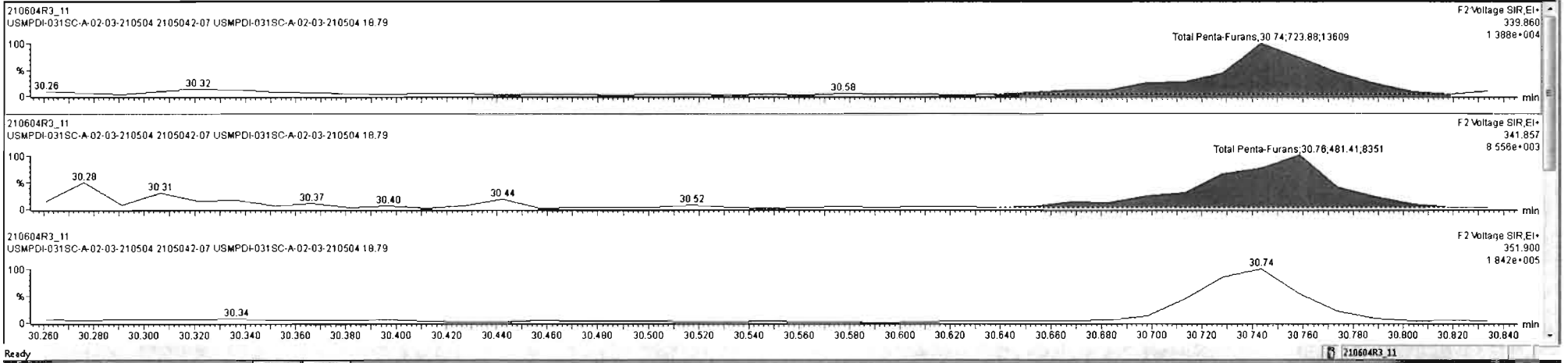
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28.80	1.259e3	7.639e2	1.65	NO	0.43117	0.43117
28.99	1.065e4	6.684e3	1.59	NO	3.6954	3.6954
29.57	2.809e3	1.831e3	1.53	NO	0.98910	0.98910
29.72	9.800e2	7.089e2	1.38	NO	0.36004	0.36004
29.91	1.913e4	1.170e4	1.63	NO	6.5751	6.5751
30.16	5.153e3	3.509e3	1.47	NO	1.8467	1.8467
30.74	7.239e2	4.814e2	1.50	NO	0.25696	0.25696
30.94	9.309e3	5.766e3	1.61	NO	2.9286	2.9286
31.75	3.149e3	1.528e3	2.06	YES	0.83063	0.00000
31.83	4.186e2	2.357e2	1.78	NO	0.13954	0.13954

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.80	1.259e3	7.639e2	1.65	NO	0.43117	0.43117
2 Total Penta-Furans	28.99	1.065e4	6.684e3	1.59	NO	3.6954	3.6954
3 Total Penta-Furans	29.57	2.809e3	1.831e3	1.53	NO	0.98910	0.98910
4 Total Penta-Furans	29.72	9.800e2	7.089e2	1.38	NO	0.36004	0.36004
5 1,2,3,7,8-PeCDF	29.91	1.913e4	1.170e4	1.63	NO	6.5751	6.5751
6 Total Penta-Furans	30.16	5.153e3	3.509e3	1.47	NO	1.8467	1.8467
7 Total Penta-Furans	30.74	7.239e2	4.814e2	1.50	NO	0.25696	0.25696
8 2,3,4,7,8-PeCDF	30.94	9.309e3	5.766e3	1.61	NO	2.9286	2.9286
9 Total Penta-Furans	31.75	3.149e3	1.528e3	2.06	YES	0.83063	0.00000
10 Total Penta-Furans	31.83	4.186e2	2.357e2	1.78	NO	0.13954	0.13954

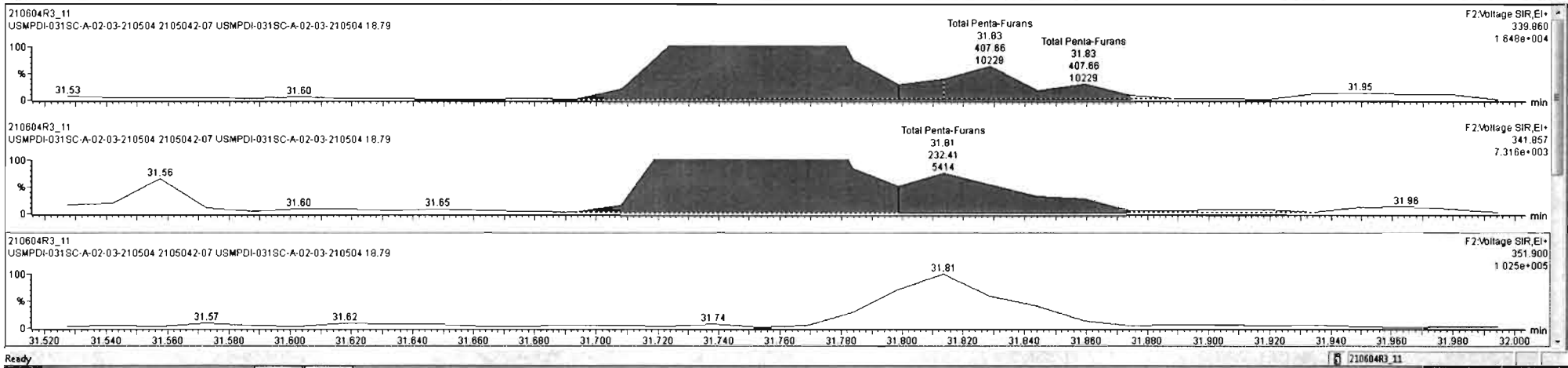


RT	Area	Height	Width	Area%	Height%
6.02	0.0923	14.0			
6.02	0.0107	6.02			
17.2	0.100	18.1			

Name	RT	m1 Resp	m2 Resp	RA	nNy	EMPC	Conc.
1 Total Penta-Furans	28.80	1.259e3	7.839e2	1.65	NO	0.43117	0.43117
2 Total Penta-Furans	28.99	1.065e4	6.884e3	1.59	NO	3.6954	3.6954
3 Total Penta-Furans	29.57	2.809e3	1.831e3	1.53	NO	0.98910	0.98910
4 Total Penta-Furans	29.72	9.800e2	7.088e2	1.38	NO	0.36004	0.36004
5 1,2,3,7,8-PeCDF	29.91	1.913e4	1.170e4	1.63	NO	6.5751	6.5751
6 Total Penta-Furans	30.16	5.153e3	3.509e3	1.47	NO	1.8467	1.8467
7 Total Penta-Furans	30.74	7.239e2	4.814e2	1.50	NO	0.25696	0.25696
8 2,3,4,7,8-PeCDF	30.84	9.309e3	5.766e3	1.61	NO	2.9286	2.9286
9 Total Penta-Furans	31.75	3.149e3	1.528e3	2.06	YES	0.83063	0.00000
10 Total Penta-Furans	31.83	4.188e2	2.357e2	1.78	NO	0.13954	0.13954



Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.80	1.259e3	7.639e2	1.65	NO	0.43117	0.43117
2 Total Penta-Furans	28.99	1.065e4	6.684e3	1.59	NO	3.6954	3.6954
3 Total Penta-Furans	29.57	2.809e3	1.831e3	1.53	NO	0.98910	0.98910
4 Total Penta-Furans	29.72	9.800e2	7.089e2	1.38	NO	0.36004	0.36004
5 1,2,3,7,8-PeCDF	29.91	1.913e4	1.170e4	1.63	NO	6.5751	6.5751
6 Total Penta-Furans	30.18	5.153e3	3.509e3	1.47	NO	1.8467	1.8467
7 Total Penta-Furans	30.74	7.239e2	4.814e2	1.50	NO	0.25696	0.25696
8 2,3,4,7,8-PeCDF	30.94	9.309e3	5.766e3	1.61	NO	2.9286	2.9286
9 Total Penta-Furans	31.75	3.149e3	1.528e3	2.06	YES	0.63063	0.00000
10 Total Penta-Furans	31.83	4.077e2	2.324e2	1.75	NO	0.13646	0.13646

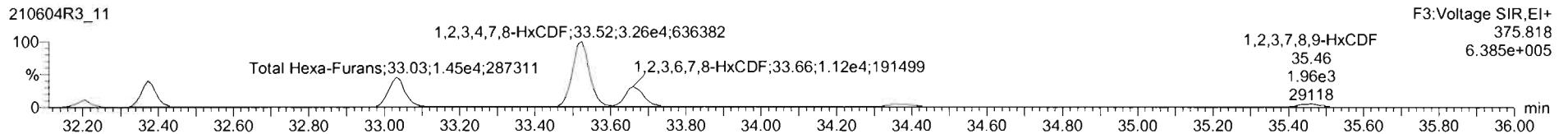
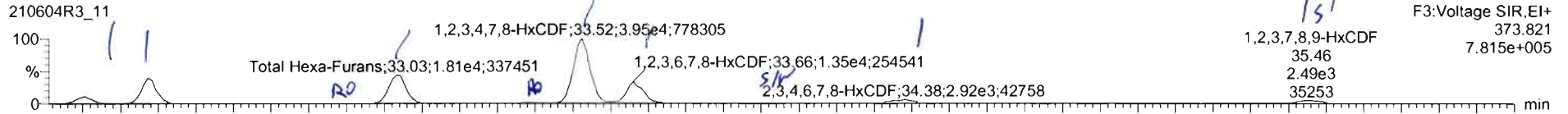


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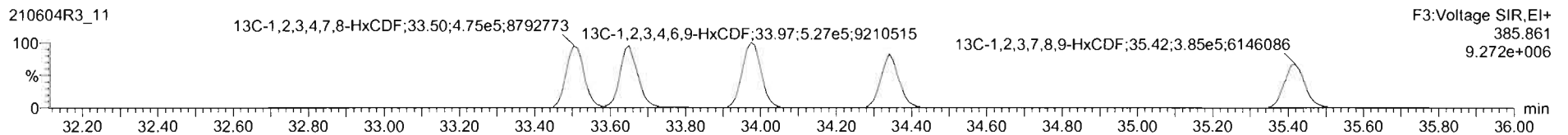
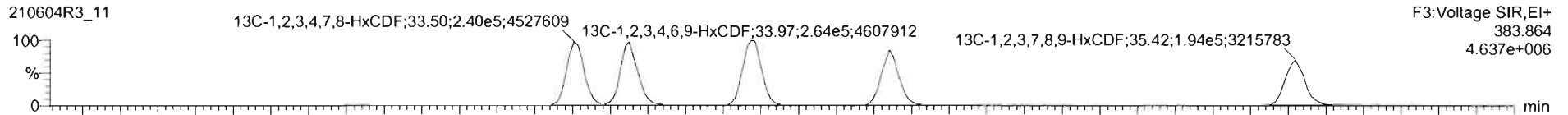
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Printed: Saturday, June 05, 2021 10:32:36 AM Pacific Daylight Time

Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

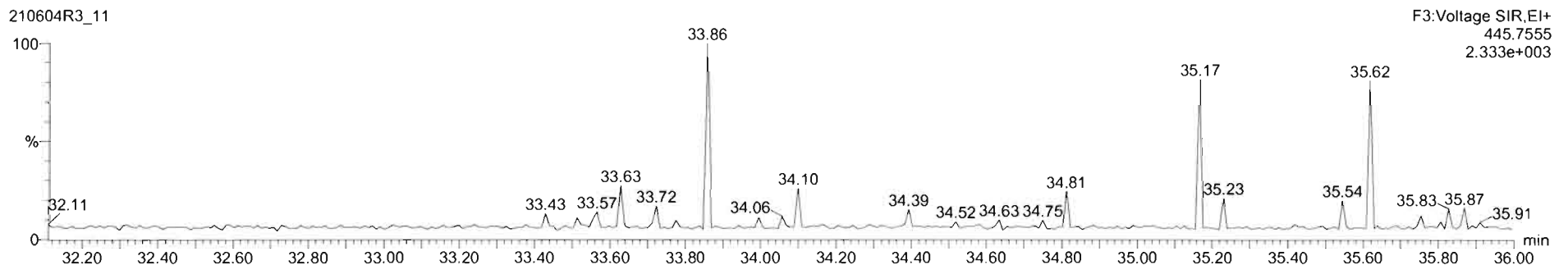
1,2,3,4,7,8-HxCDF

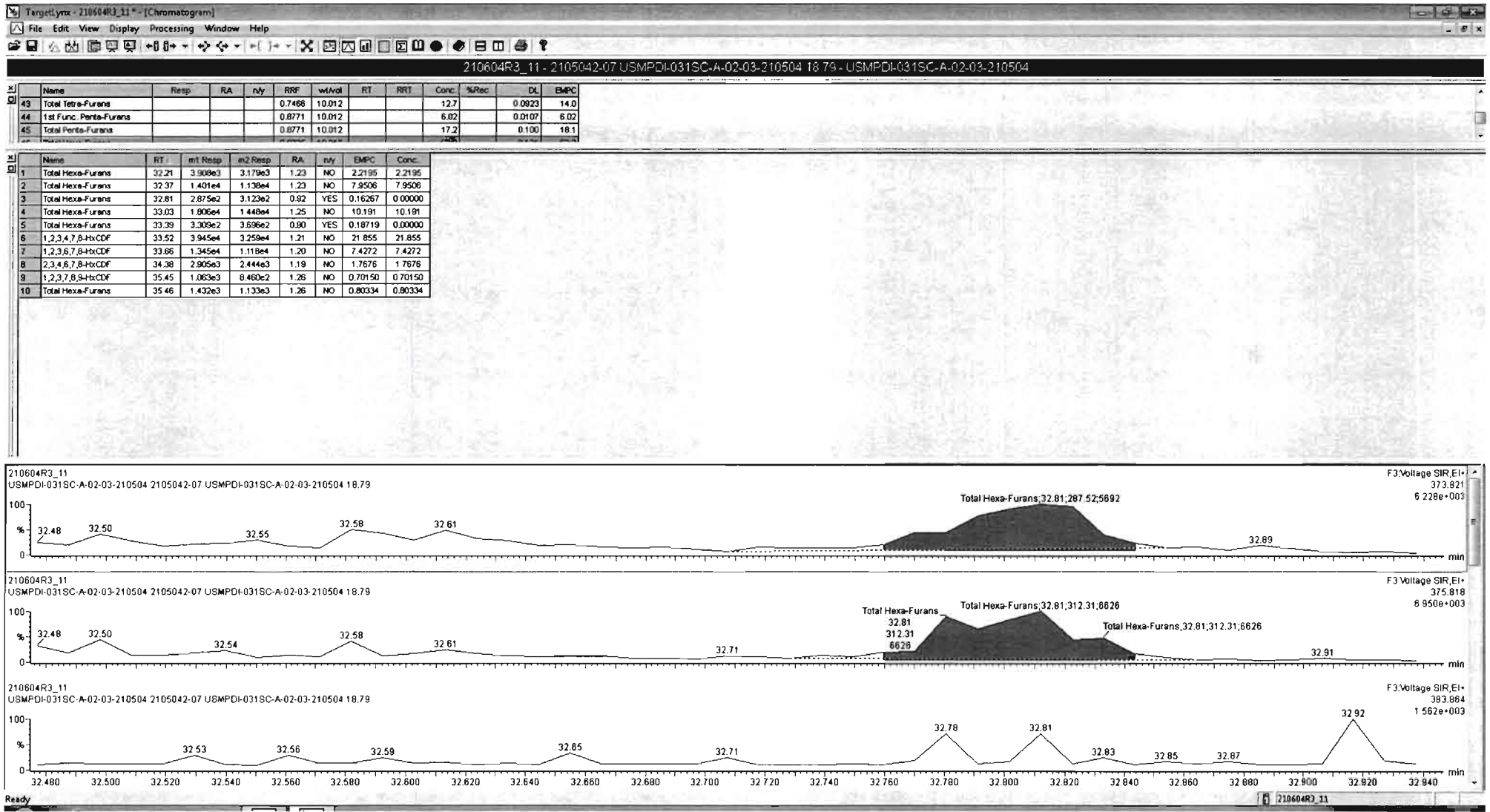


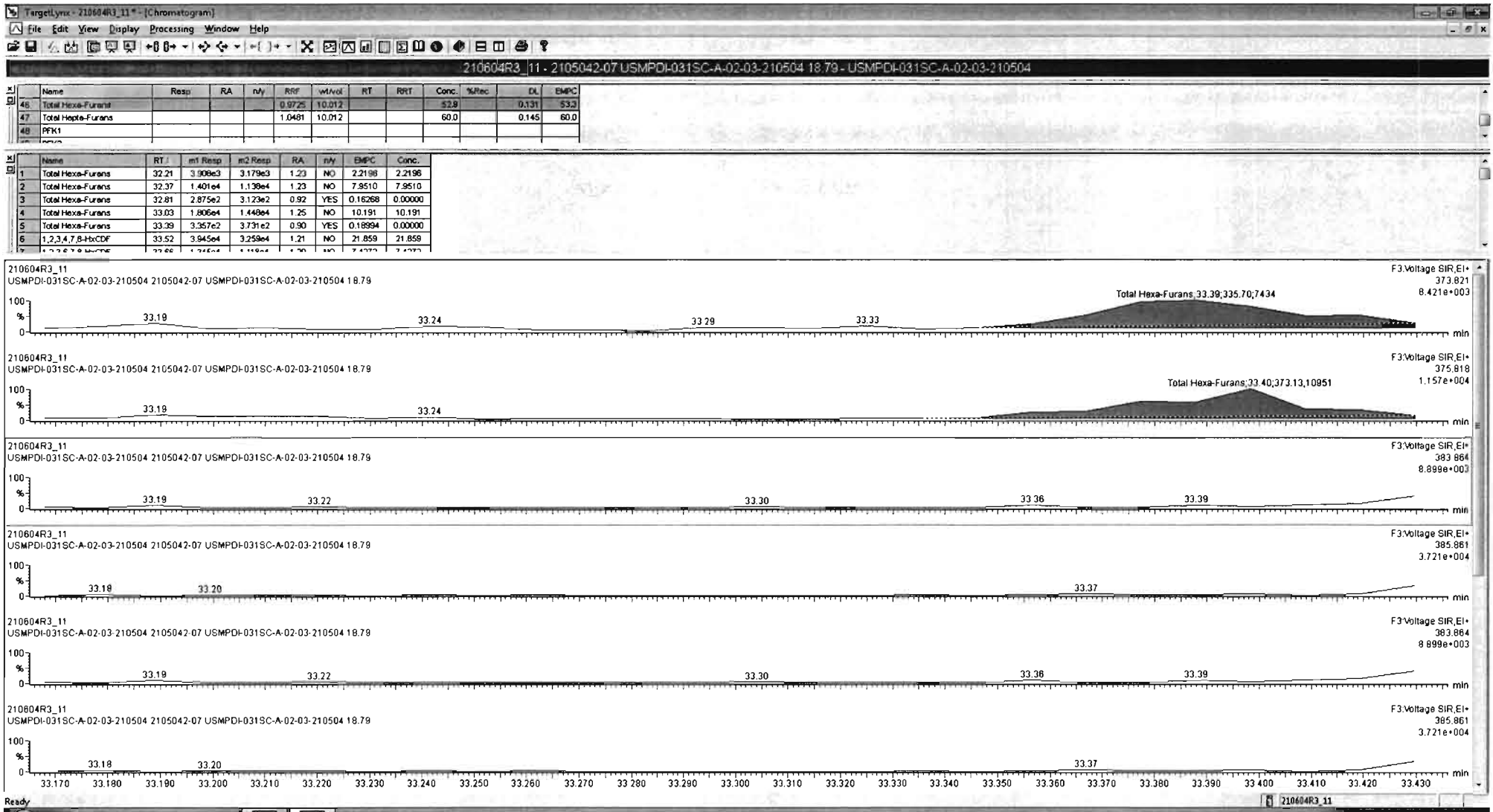
13C-1,2,3,4,7,8-HxCDF



DPE3







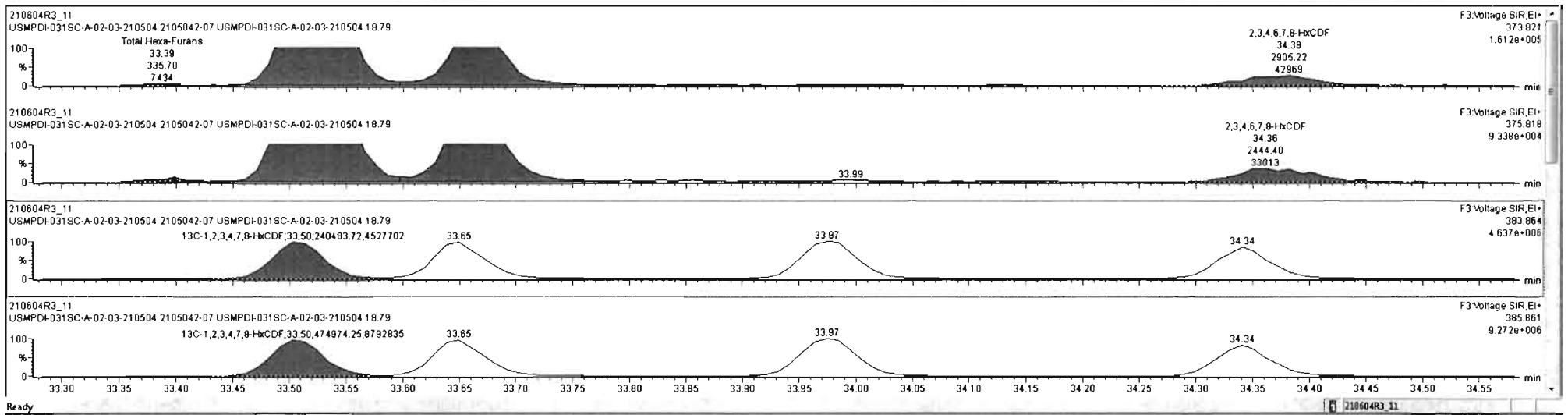
TargetLynx - 210604R3_11 - [Chromatogram]

File Edit View Display Processing Window Help

210604R3_11 - 2105043-07 USMPDI-031SC-A-02-03-210504 18.79 - USMPDI-031SC-A-02-03-210504

Name	Resp	RA	n/y	RRF	wt%	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9725	10.012			52.9	0.131	53.3	
47 Total Hepta-Furans				1.0461	10.012			60.0	0.145	60.0	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.21	3.900e3	3.179e3	1.23	NO	2.2196	2.2196
2 Total Hexa-Furans	32.37	1.401e4	1.138e4	1.23	NO	7.9510	7.9510
3 Total Hexa-Furans	32.81	2.875e2	3.123e2	0.92	YES	0.16268	0.00000
4 Total Hexa-Furans	33.03	1.806e4	1.448e4	1.25	NO	10.191	10.191
5 Total Hexa-Furans	33.39	3.357e2	3.731e2	0.90	YES	0.18994	0.00000
6 1,2,3,4,7,8-HxCDF	33.52	3.945e4	3.259e4	1.21	NO	21.859	21.859
7 1,2,3,6,7,8-HxCDF	33.68	1.345e4	1.118e4	1.20	NO	7.4272	7.4272
8 2,3,4,6,7,8-HxCDF	34.36	2.905e2	2.444e3	1.19	NO	1.7676	1.7676
9 1,2,3,7,8-HxCDF	35.45	1.063e3	8.460e2	1.26	NO	0.70150	0.70150
10 Total Hexa-Furans	35.46	1.432e3	1.133e3	1.26	NO	0.80337	0.80337



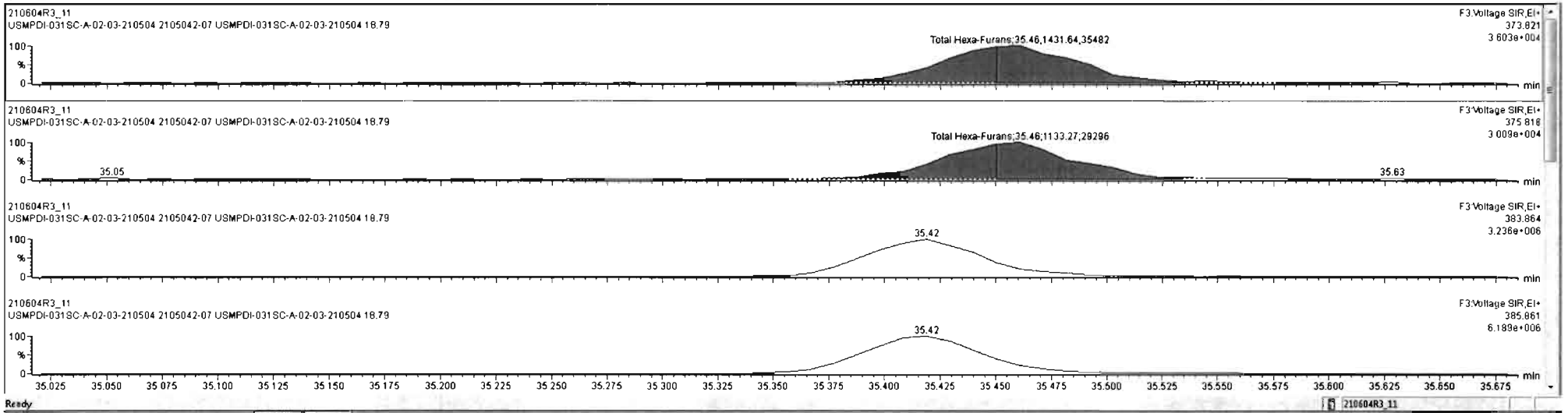
TargetLynx - 210604R3_11* - [Chromatogram]

File Edit View Display Processing Window Help

210604R3_11 31050 11.01 USMPDI-031SC-A-02-03-210504 18.79 USMPDI-031SC-A-02-03-210504

Time	Resp	RA	n/y	RRF	wt/ol	RT	RRT	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans	0.9725	10.012					52.9	0.131	53.3	
47	Total Hexa-Furans	1.0461	10.012					60.0	0.145	60.0	
48	PFK1										

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.21	3.908e3	3.179e3	1.23	NO	2.2196	2.2196
2	Total Hexa-Furans	32.37	1.401e4	1.139e4	1.23	NO	7.9510	7.9510
3	Total Hexa-Furans	32.81	2.875e2	3.123e2	0.92	YES	0.16268	0.00000
4	Total Hexa-Furans	33.03	1.806e4	1.448e4	1.25	NO	10.191	10.191
5	Total Hexa-Furans	33.39	3.357e2	3.731e2	0.90	YES	0.18994	0.00000
6	1,2,3,4,7,8-HxCDF	33.52	3.945e4	3.259e4	1.21	NO	21.859	21.859
7	1,2,3,6,7,8-HxCDF	33.68	1.345e4	1.118e4	1.20	NO	7.4272	7.4272
8	2,3,4,6,7,8-HxCDF	34.38	2.905e3	2.444e3	1.19	NO	1.7676	1.7676
9	1,2,3,7,8,9-HxCDF	35.45	1.063e3	8.480e2	1.26	NO	0.70150	0.70150
10	Total Hexa-Furans	35.46	1.432e3	1.133e3	1.26	NO	0.80337	0.80337

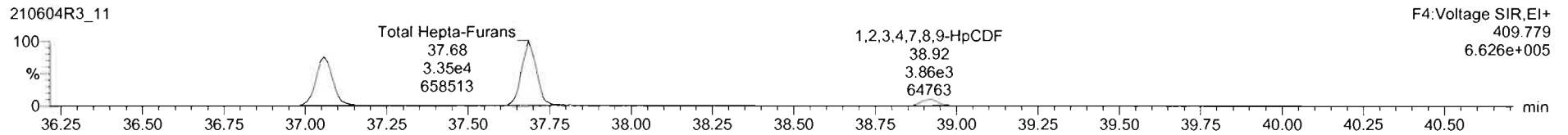
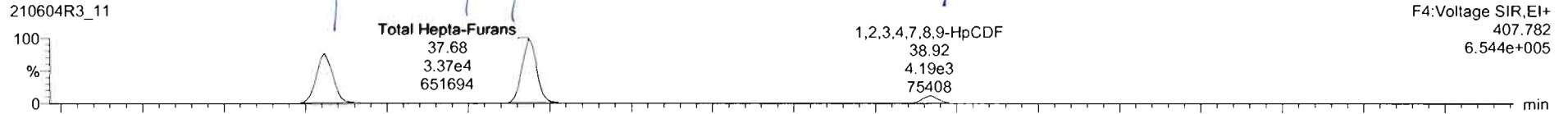


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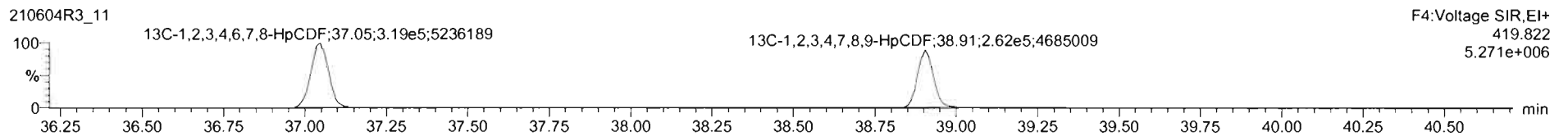
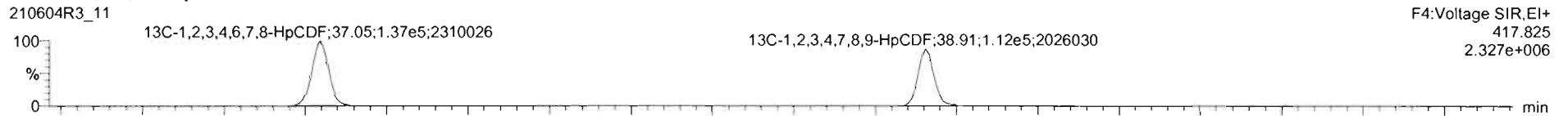
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Printed: Saturday, June 05, 2021 10:32:36 AM Pacific Daylight Time

Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

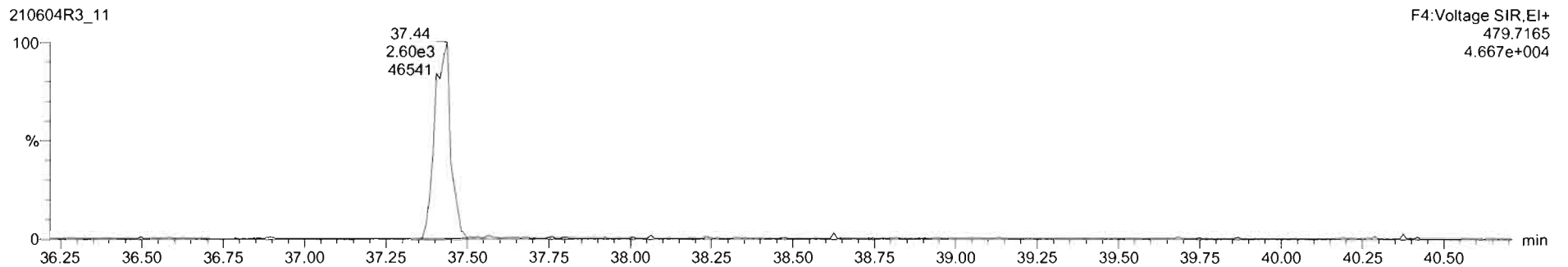
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF

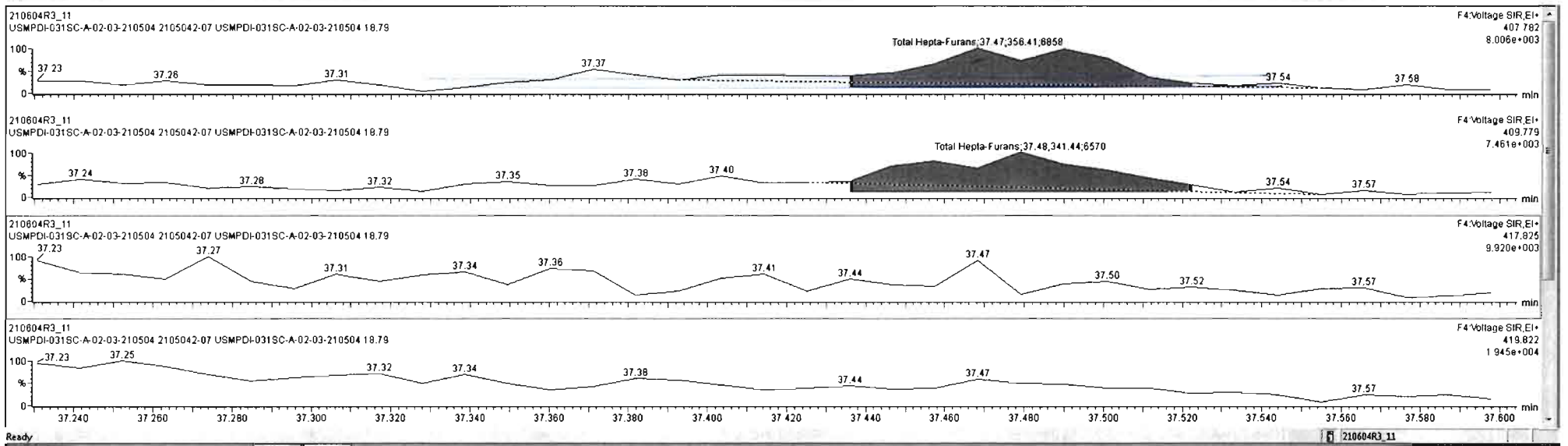


DPE4



Peak	Name	Resp	RA	n/y	IRF	Method	RT	RRT	Conc.	%Rec.	DL	EMPC
46	Total Hepta-Furans				0.9725	10.012			52.9	0.131	53.3	
47	Total Hepta-Furans				1.0491	10.012			60.0	0.145	60.0	
48	PEK1											

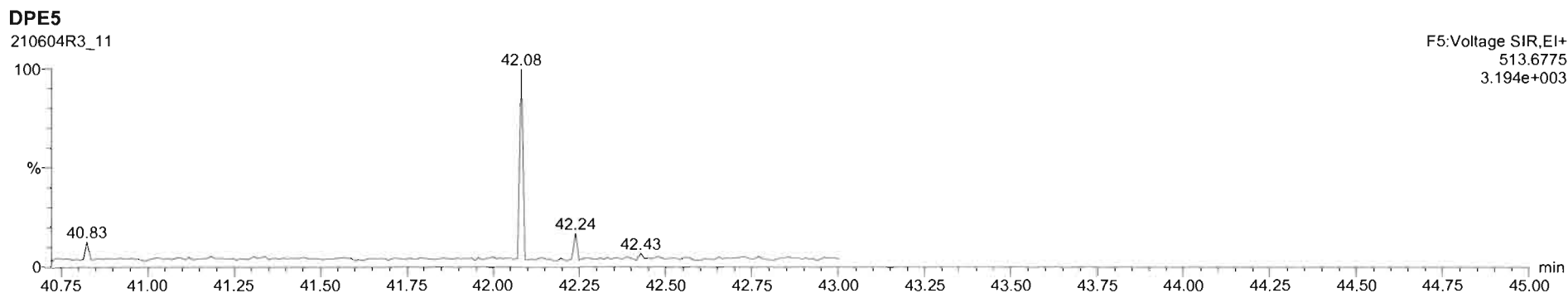
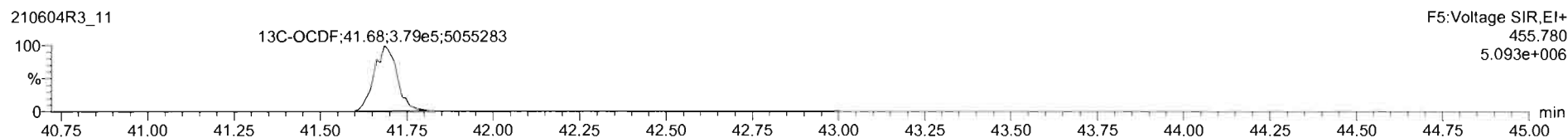
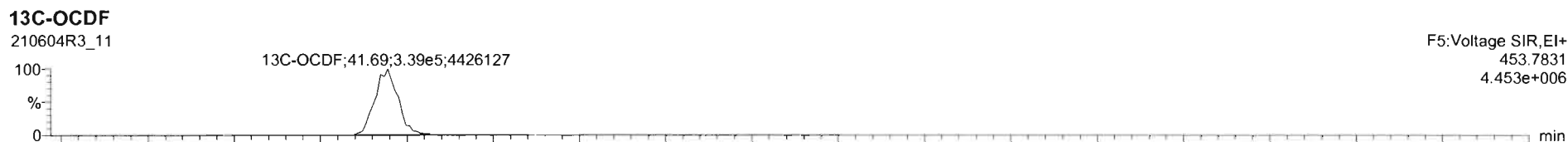
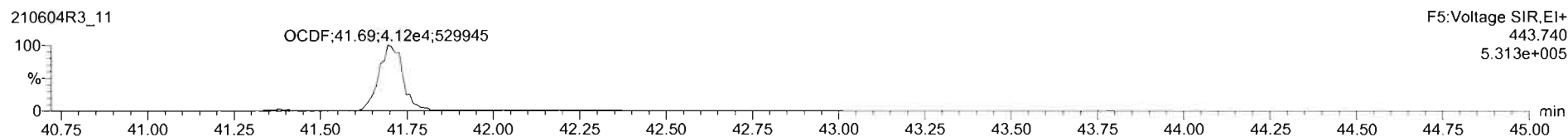
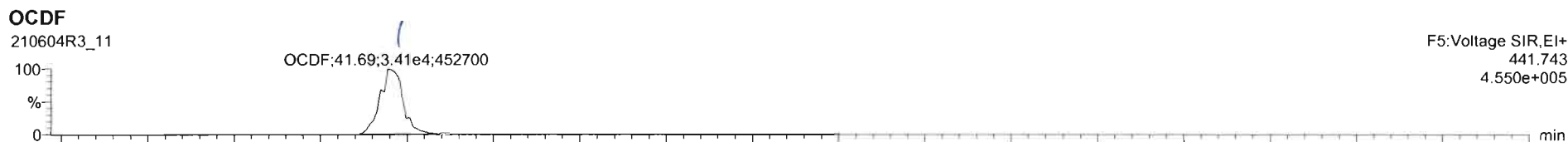
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1,2,3,4,6,7,8-HpCDF	37.06	2.921e4	2.976e4	0.98	NO	24.692	24.692
Total Hepta-Furans	37.47	3.564e2	3.414e2	1.04	NO	0.32076	0.32076
Total Hepta-Furans	37.69	3.367e4	3.346e4	1.01	NO	30.858	30.858
1,2,3,4,7,8,9-HpCDF	38.92	4.186e3	3.856e3	1.09	NO	4.1080	4.1080



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_11.qld

Last Altered: Saturday, June 05, 2021 10:32:24 AM Pacific Daylight Time
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Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504



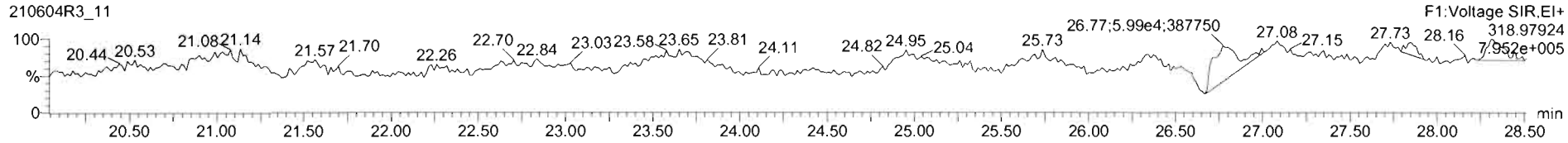
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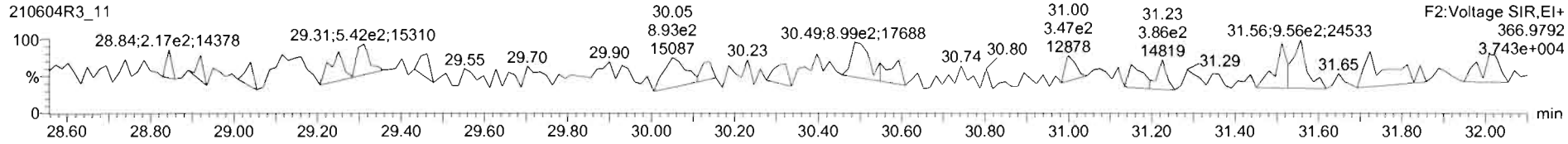
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Name: 210604R3_11, Date: 05-Jun-2021, Time: 05:19:26, ID: 2105042-07 USMPDI-031SC-A-02-03-210504 18.79, Description: USMPDI-031SC-A-02-03-210504

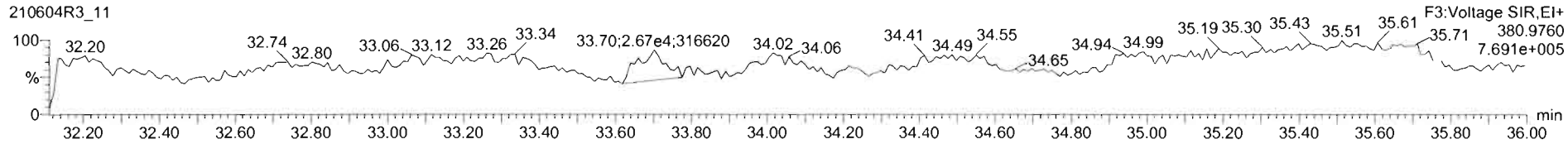
PFK1



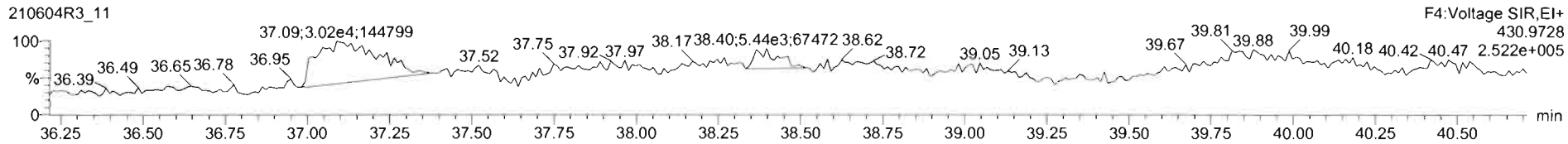
PFK2



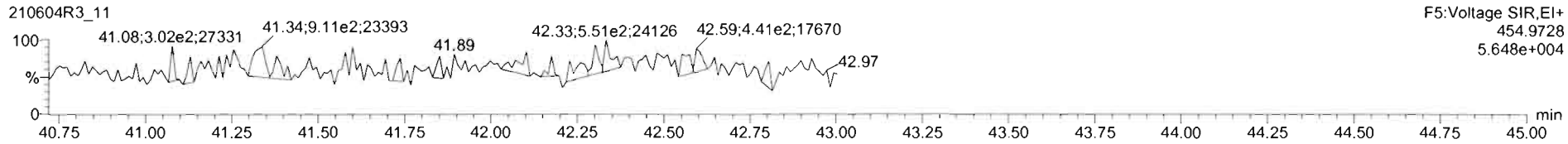
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_12.qld

Last Altered: Friday, June 18, 2021 15:44:46 Pacific Daylight Time
Printed: Friday, June 18, 2021 15:48:34 Pacific Daylight Time

ly 06-18-2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

CT 06/23/2021

Name: 210604R3_12, Date: 05-Jun-2021, Time: 06:03:43, ID: 2105042-08 USMPDI-031SC-A-03-04-210504 18.56, Description: USMPDI-031SC-A-03-04-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.34e3	0.47	YES	0.929	9.997	26.713	26.70	1.001	1.001	0.59436		0.0389	0.439
2	2 1,2,3,7,8-PeCDD	1.74e3	0.68	NO	0.826	9.997	31.136	31.12	1.001	1.000	0.62704		0.0994	0.627
3	3 1,2,3,4,7,8-HxCDD	1.90e3	1.13	NO	0.972	9.997	34.477	34.48	1.001	1.001	0.84012		0.216	0.840
4	4 1,2,3,6,7,8-HxCDD	1.10e4	1.26	NO	0.877	9.997	34.612	34.61	1.001	1.001	4.6866		0.209	4.69
5	5 1,2,3,7,8,9-HxCDD	5.37e3	1.32	NO	0.874	9.997	34.895	34.90	1.000	1.000	2.3361		0.223	2.34
6	6 1,2,3,4,6,7,8-HpCDD	1.76e5	1.04	NO	0.899	9.997	38.289	38.30	1.000	1.001	101.44		0.563	101
7	7 OCDD	1.58e6	0.89	NO	0.852	9.997	41.419	41.41	1.000	1.000	1235.1		1.01	1240
8	8 2,3,7,8-TCDF	1.72e4	0.74	NO	0.747	9.997	26.063	26.08	1.000	1.001	3.3558		0.0691	3.36
9	9 1,2,3,7,8-PeCDF	1.93e4	1.54	NO	0.877	9.997	29.902	29.93	1.000	1.001	5.4448		0.602	5.44
10	10 2,3,4,7,8-PeCDF	1.16e4	1.56	NO	0.962	9.997	30.946	30.94	1.001	1.000	2.5084		0.428	2.51
11	11 1,2,3,4,7,8-HxCDF	4.68e4	1.24	NO	0.920	9.997	33.534	33.53	1.000	1.000	15.967		0.140	16.0
12	12 1,2,3,6,7,8-HxCDF	1.14e4	1.21	NO	0.936	9.997	33.690	33.68	1.001	1.000	4.1077		0.165	4.11
13	13 2,3,4,6,7,8-HxCDF	4.29e3	1.21	NO	0.973	9.997	34.382	34.39	1.001	1.001	1.6822		0.193	1.68
14	14 1,2,3,7,8,9-HxCDF	1.52e3	1.35	NO	0.940	9.997	35.450	35.47	1.000	1.001	0.62400		0.207	0.624
15	15 1,2,3,4,6,7,8-HpCDF	4.44e4	0.99	NO	1.05	9.997	37.076	37.08	1.000	1.001	21.099		0.159	21.1
16	16 1,2,3,4,7,8,9-HpCDF	5.74e3	1.10	NO	1.05	9.997	38.939	38.94	1.000	1.000	3.1864		0.163	3.19
17	17 OCDF	7.34e4	0.84	NO	0.771	9.997	41.744	41.74	1.000	1.000	53.826		0.276	53.8
18	18 13C-2,3,7,8-TCDD	8.49e5	0.78	NO	1.10	9.997	26.654	26.68	1.027	1.028	175.21	87.6	0.0892	
19	19 13C-1,2,3,7,8-PeCDD	6.73e5	0.66	NO	0.864	9.997	31.033	31.10	1.196	1.198	177.64	88.8	0.278	
20	20 13C-1,2,3,4,7,8-HxCDD	4.66e5	1.29	NO	0.746	9.997	34.453	34.46	1.014	1.014	166.44	83.2	0.312	
21	21 13C-1,2,3,6,7,8-HxCDD	5.37e5	1.27	NO	0.847	9.997	34.572	34.59	1.017	1.018	168.97	84.5	0.275	
22	22 13C-1,2,3,7,8,9-HxCDD	5.26e5	1.27	NO	0.868	9.997	34.871	34.88	1.026	1.027	161.36	80.7	0.268	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.87e5	1.06	NO	0.664	9.997	38.218	38.28	1.125	1.126	155.22	77.6	0.374	
24	24 13C-OCDD	6.01e5	0.89	NO	0.561	9.997	41.165	41.41	1.211	1.219	285.64	71.4	0.440	
25	25 13C-2,3,7,8-TCDF	1.37e6	0.79	NO	1.09	9.997	26.044	26.06	1.003	1.004	186.99	93.5	0.0894	
26	26 13C-1,2,3,7,8-PeCDF	8.09e5	1.66	NO	0.809	9.997	29.764	29.90	1.147	1.152	148.84	74.4	2.68	
27	27 13C-2,3,4,7,8-PeCDF	9.59e5	1.58	NO	0.803	9.997	30.724	30.92	1.184	1.191	177.85	88.9	2.70	
28	28 13C-1,2,3,4,7,8-HxCDF	6.37e5	0.51	NO	1.01	9.997	33.525	33.52	0.987	0.986	167.67	83.8	0.330	
29	29 13C-1,2,3,6,7,8-HxCDF	5.91e5	0.50	NO	1.07	9.997	33.654	33.67	0.990	0.991	146.60	73.3	0.311	
30	30 13C-2,3,4,6,7,8-HxCDF	5.25e5	0.49	NO	0.910	9.997	34.344	34.36	1.011	1.011	153.67	76.8	0.367	
31	31 13C-1,2,3,7,8,9-HxCDF	5.19e5	0.50	NO	0.828	9.997	35.422	35.44	1.042	1.043	166.73	83.3	0.403	

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_12.qld

Last Altered: Friday, June 18, 2021 15:44:46 Pacific Daylight Time

Printed: Friday, June 18, 2021 15:48:34 Pacific Daylight Time

Name: 210604R3_12, Date: 05-Jun-2021, Time: 06:03:43, ID: 2105042-08 USMPDI-031SC-A-03-04-210504 18.56, Description: USMPDI-031SC-A-03-04-210504

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.02e5	0.43	NO	0.661	9.997	37.029	37.06	1.090	1.090	161.93	80.9	0.454	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.45e5	0.42	NO	0.566	9.997	38.789	38.93	1.141	1.145	162.25	81.1	0.530	
34	34 13C-OCDF	7.08e5	0.89	NO	0.663	9.997	41.552	41.74	1.223	1.228	284.44	71.1	0.515	
35	35 37Cl-2,3,7,8-TCDD	8.59e5			2.07	9.997	26.854	26.70	1.035	1.029	94.697	118	0.0297	
36	36 13C-1,2,3,4-TCDD	8.78e5	0.79	NO	1.00	9.997	26.070	25.96	1.000	1.000	200.07	100	0.0985	
37	37 13C-1,2,3,4-TCDF	1.34e6	0.79	NO	1.00	9.997	24.760	24.64	1.000	1.000	200.07	100	0.0977	
38	38 13C-1,2,3,4,6,9-HxCDF	7.51e5	0.50	NO	1.00	9.997	34.040	33.98	1.000	1.000	200.07	100	0.333	
39	39 Total Tetra-Dioxins				0.929	9.997	24.620		0.000		2.6265		0.0339	4.56
40	40 Total Penta-Dioxins				0.826	9.997	29.960		0.000		5.5642		0.0994	7.04
41	41 Total Hexa-Dioxins				0.877	9.997	33.635		0.000		40.139		0.223	40.1
42	42 Total Hepta-Dioxins				0.899	9.997	37.640		0.000		223.02		0.563	223
43	43 Total Tetra-Furans				0.747	9.997	23.610		0.000		14.447		0.0691	15.4
44	44 1st Func. Penta-Furans				0.877	9.997	27.620		0.000		7.2230		0.0153	7.22
45	45 Total Penta-Furans				0.877	9.997	29.275		0.000		17.673		0.530	17.7
46	46 Total Hexa-Furans				0.973	9.997	33.555		0.000		46.226		0.169	46.7
47	47 Total Hepta-Furans				1.05	9.997	37.835		0.000		58.298		0.161	58.3

Quantify Totals Report MassLynx 4.1 SCN815

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_12.qld

Last Altered: Friday, June 18, 2021 15:44:46 Pacific Daylight Time

Printed: Friday, June 18, 2021 15:48:34 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_12, Date: 05-Jun-2021, Time: 06:03:43, ID: 2105042-08 USMPDI-031SC-A-03-04-210504 18.56, Description: USMPDI-031SC-A-03-04-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	2.108e4	2.388e4	1.728e3	1.941e3	0.89	YES	0.000e0	0.00000	0.87208	0.0339
2	Total Tetra-Dioxins	23.56	1.207e4	1.854e4	8.366e2	1.205e3	0.69	NO	2.042e3	0.51820	0.51820	0.0339
3	Total Tetra-Dioxins	24.05	1.100e4	9.300e3	6.047e2	7.338e2	0.82	NO	1.338e3	0.33969	0.33969	0.0339
4	Total Tetra-Dioxins	24.77	2.108e4	1.956e4	1.186e3	1.429e3	0.83	NO	2.615e3	0.66365	0.66365	0.0339
5	Total Tetra-Dioxins	24.97	5.529e3	7.037e3	4.581e2	4.906e2	0.93	YES	0.000e0	0.00000	0.22040	0.0339
6	Total Tetra-Dioxins	25.20	6.877e3	1.099e4	4.099e2	6.340e2	0.65	YES	0.000e0	0.00000	0.23915	0.0339
7	Total Tetra-Dioxins	25.38	3.351e3	2.944e3	2.006e2	2.350e2	0.85	NO	4.356e2	0.11056	0.11056	0.0339
8	Total Tetra-Dioxins	25.65	3.489e3	5.489e3	2.054e2	3.087e2	0.67	NO	5.141e2	0.13047	0.13047	0.0339
9	Total Tetra-Dioxins	25.72	4.132e3	5.229e3	2.481e2	3.297e2	0.75	NO	5.777e2	0.14662	0.14662	0.0339
10	Total Tetra-Dioxins	26.00	1.807e3	1.663e3	8.139e1	6.719e1	1.21	YES	0.000e0	0.00000	0.030185	0.0339
11	Total Tetra-Dioxins	26.43	1.499e4	2.071e4	9.855e2	1.384e3	0.71	NO	2.370e3	0.60145	0.60145	0.0339
12	2,3,7,8-TCDD	26.70	1.520e4	2.819e4	7.523e2	1.590e3	0.47	YES	2.342e3	0.00000	0.43891	0.0339
13	Total Tetra-Dioxins	27.01	3.665e3	5.100e3	2.240e2	3.587e2	0.62	YES	0.000e0	0.00000	0.13071	0.0339
14	Total Tetra-Dioxins	27.54	3.914e3	5.412e3	2.011e2	2.556e2	0.79	NO	4.566e2	0.11589	0.11589	0.0339

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.93	3.638e4	5.945e4	2.411e3	3.830e3	0.63	NO	6.241e3	2.2475	2.2475	0.0994
2	Total Penta-Dioxins	29.39	1.573e4	2.914e4	6.045e2	1.190e3	0.51	YES	0.000e0	0.00000	0.56318	0.0994
3	Total Penta-Dioxins	29.90	2.362e4	2.967e4	9.690e2	1.319e3	0.73	YES	0.000e0	0.00000	0.77393	0.0994
4	Total Penta-Dioxins	30.08	1.745e4	2.945e4	1.369e3	2.200e3	0.62	NO	3.569e3	1.2852	1.2852	0.0994
5	Total Penta-Dioxins	30.34	1.797e4	2.805e4	1.152e3	1.710e3	0.67	NO	2.863e3	1.0309	1.0309	0.0994
6	Total Penta-Dioxins	30.67	3.310e3	3.951e3	1.866e2	2.363e2	0.79	YES	0.000e0	0.00000	0.13870	0.0994
7	1,2,3,7,8-PeCDD	31.12	1.263e4	2.205e4	7.052e2	1.036e3	0.68	NO	1.741e3	0.62704	0.62704	0.0994
8	Total Penta-Dioxins	31.19	4.210e3	6.861e3	1.980e2	2.948e2	0.67	NO	4.928e2	0.17746	0.17746	0.0994
9	Total Penta-Dioxins	31.48	5.707e3	6.941e3	2.140e2	3.306e2	0.65	NO	5.446e2	0.19612	0.19612	0.0994

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Name: 210604R3_12, Date: 05-Jun-2021, Time: 06:03:43, ID: 2105042-08 USMPDI-031SC-A-03-04-210504 18.56, Description: USMPDI-031SC-A-03-04-210504

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.75	3.630e5	2.618e5	1.690e4	1.346e4	1.26	NO	3.036e4	13.582	13.582	0.223
2	Total Hexa-Dioxins	33.39	3.373e4	3.267e4	1.860e3	1.575e3	1.18	NO	3.435e3	1.5365	1.5365	0.223
3	Total Hexa-Dioxins	33.69	3.055e5	2.570e5	1.971e4	1.617e4	1.22	NO	3.588e4	16.051	16.051	0.223
4	Total Hexa-Dioxins	33.80	1.532e4	1.276e4	6.311e2	5.424e2	1.16	NO	1.174e3	0.52498	0.52498	0.223
5	1,2,3,4,7,8-HxCDD	34.48	1.955e4	1.737e4	1.012e3	8.920e2	1.13	NO	1.904e3	0.84012	0.84012	0.216
6	1,2,3,6,7,8-HxCDD	34.61	1.034e5	8.914e4	6.154e3	4.885e3	1.26	NO	1.104e4	4.6866	4.6866	0.209
7	Total Hexa-Dioxins	34.78	1.269e4	9.923e3	7.460e2	5.537e2	1.35	NO	1.300e3	0.58142	0.58142	0.223
8	1,2,3,7,8,9-HxCDD	34.90	5.774e4	3.543e4	3.050e3	2.318e3	1.32	NO	5.369e3	2.3361	2.3361	0.223

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.41	1.894e6	1.816e6	1.066e5	1.048e5	1.02	NO	2.114e5	121.57	121.57	0.563
2	1,2,3,4,6,7,8-HpCDD	38.30	1.671e6	1.610e6	8.974e4	8.666e4	1.04	NO	1.764e5	101.44	101.44	0.563

Quantify Totals Report MassLynx 4.1 SCN815

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.17	4.662e3	7.551e3	4.024e2	6.046e2	0.67	NO	1.007e3	0.19654	0.19654	0.0691
2	Total Tetra-Furans	21.76	1.117e4	1.174e4	7.644e2	9.611e2	0.80	NO	1.725e3	0.33678	0.33678	0.0691
3	Total Tetra-Furans	22.51	5.317e4	6.912e4	4.286e3	5.791e3	0.74	NO	1.008e4	1.9667	1.9667	0.0691
4	Total Tetra-Furans	22.94	1.335e4	1.876e4	1.581e3	2.179e3	0.73	NO	3.760e3	0.73383	0.73383	0.0691
5	Total Tetra-Furans	23.34	3.102e4	4.100e4	3.106e3	4.015e3	0.77	NO	7.122e3	1.3900	1.3900	0.0691
6	Total Tetra-Furans	23.74	2.691e4	3.314e4	1.845e3	2.529e3	0.73	NO	4.374e3	0.85373	0.85373	0.0691
7	Total Tetra-Furans	23.84	8.311e3	1.201e4	5.071e2	7.028e2	0.72	NO	1.210e3	0.23613	0.23613	0.0691
8	Total Tetra-Furans	24.05	1.252e4	1.416e4	9.161e2	1.118e3	0.82	NO	2.034e3	0.39701	0.39701	0.0691
9	Total Tetra-Furans	24.40	4.396e3	5.047e3	2.309e2	2.439e2	0.95	YES	0.000e0	0.00000	0.084254	0.0691
10	Total Tetra-Furans	24.51	7.973e3	1.064e4	4.714e2	8.433e2	0.56	YES	0.000e0	0.00000	0.21148	0.0691
11	Total Tetra-Furans	24.68	7.213e3	1.321e4	2.752e2	4.234e2	0.65	YES	0.000e0	0.00000	0.12345	0.0691
12	Total Tetra-Furans	24.74	2.642e4	2.937e4	2.124e3	2.924e3	0.73	NO	5.048e3	0.98532	0.98532	0.0691
13	Total Tetra-Furans	25.16	8.623e4	1.095e5	5.650e3	7.968e3	0.71	NO	1.362e4	2.6579	2.6579	0.0691
14	Total Tetra-Furans	25.44	8.152e3	1.309e4	4.820e2	7.211e2	0.67	NO	1.203e3	0.23482	0.23482	0.0691
15	Total Tetra-Furans	25.81	5.974e3	6.914e3	2.649e2	4.435e2	0.60	YES	0.000e0	0.00000	0.11883	0.0691
16	Total Tetra-Furans	25.96	1.567e4	2.106e4	9.343e2	1.200e3	0.78	NO	2.134e3	0.41656	0.41656	0.0691
17	2,3,7,8-TCDF	26.08	1.247e5	1.545e5	7.335e3	9.858e3	0.74	NO	1.719e4	3.3558	3.3558	0.0691
18	Total Tetra-Furans	26.27	5.976e3	1.425e4	3.462e2	5.203e2	0.67	NO	8.665e2	0.16913	0.16913	0.0691
19	Total Tetra-Furans	26.36	1.063e4	1.461e4	6.700e2	9.937e2	0.67	NO	0.000e0	0.00000	0.32472	0.0691
20	Total Tetra-Furans	27.43	9.895e3	1.165e4	5.908e2	7.860e2	0.75	NO	1.377e3	0.26872	0.26872	0.0691
21	Total Tetra-Furans	27.66	4.474e3	3.693e3	2.276e2	1.404e2	1.62	YES	0.000e0	0.00000	0.048488	0.0691
22	Total Tetra-Furans	27.85	8.307e3	1.216e4	5.377e2	7.327e2	0.73	NO	1.270e3	0.24797	0.24797	0.0691

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	3.001e5	1.942e5	1.708e4	1.092e4	1.56	NO	2.800e4	7.2230	7.2230	0.0153

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	1.872e4	1.242e4	9.371e2	6.764e2	1.39	NO	1.613e3	0.41617	0.41617	0.530
2	Total Penta-Furans	28.98	2.312e5	1.335e5	1.337e4	8.295e3	1.61	NO	2.167e4	5.5884	5.5884	0.530
3	Total Penta-Furans	29.57	3.913e4	2.390e4	2.558e3	1.669e3	1.53	NO	4.227e3	1.0902	1.0902	0.530
4	Total Penta-Furans	29.73	2.897e4	1.701e4	1.281e3	8.166e2	1.57	NO	2.098e3	0.54105	0.54105	0.530
5	1,2,3,7,8-PeCDF	29.93	2.395e5	1.577e5	1.170e4	7.617e3	1.54	NO	1.932e4	5.4448	5.4448	0.602
6	Total Penta-Furans	30.16	7.383e4	4.958e4	4.064e3	2.759e3	1.47	NO	6.823e3	1.7599	1.7599	0.530
7	Total Penta-Furans	30.76	8.701e3	6.458e3	4.032e2	2.956e2	1.36	NO	6.988e2	0.18025	0.18025	0.530
8	2,3,4,7,8-PeCDF	30.94	1.655e5	1.042e5	7.043e3	4.528e3	1.56	NO	1.157e4	2.5084	2.5084	0.428
9	Total Penta-Furans	31.83	8.584e3	5.497e3	3.467e2	2.117e2	1.64	NO	5.584e2	0.14403	0.14403	0.530

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.22	8.845e4	8.006e4	3.929e3	3.380e3	1.16	NO	7.309e3	2.6484	2.6484	0.169
2	Total Hexa-Furans	32.39	2.643e5	2.238e5	1.268e4	1.039e4	1.22	NO	2.307e4	8.3577	8.3577	0.169
3	Total Hexa-Furans	32.82	7.864e3	4.907e3	3.583e2	2.510e2	1.43	YES	0.000e0	0.00000	0.20372	0.169
4	Total Hexa-Furans	33.04	3.703e5	3.028e5	1.812e4	1.483e4	1.22	NO	3.295e4	11.940	11.940	0.169
5	Total Hexa-Furans	33.40	9.935e3	5.947e3	4.800e2	3.236e2	1.48	YES	0.000e0	0.00000	0.26264	0.169
6	1,2,3,4,7,8-HxCDF	33.53	4.949e5	4.205e5	2.585e4	2.091e4	1.24	NO	4.675e4	15.967	15.967	0.140
7	1,2,3,6,7,8-HxCDF	33.68	1.105e5	8.938e4	6.221e3	5.137e3	1.21	NO	1.136e4	4.1077	4.1077	0.165
8	2,3,4,6,7,8-HxCDF	34.39	3.356e4	3.300e4	2.350e3	1.942e3	1.21	NO	4.292e3	1.6822	1.6822	0.193
9	1,2,3,7,8,9-HxCDF	35.47	2.750e4	1.935e4	8.734e2	6.466e2	1.35	NO	1.520e3	0.62400	0.62400	0.207
10	Total Hexa-Furans	35.48	3.012e4	2.748e4	1.346e3	1.136e3	1.19	NO	2.482e3	0.89935	0.89935	0.169

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.08	3.634e5	3.581e5	2.208e4	2.234e4	0.99	NO	4.442e4	21.099	21.099	0.159
2	Total Hepta-Furans	37.49	8.235e3	7.852e3	3.206e2	3.235e2	0.99	NO	6.441e2	0.32935	0.32935	0.161
3	Total Hepta-Furans	37.72	5.944e5	6.156e5	3.269e4	3.317e4	0.99	NO	6.587e4	33.682	33.682	0.161
4	1,2,3,4,7,8,9-HpCDF	38.94	5.230e4	4.702e4	3.002e3	2.737e3	1.10	NO	5.739e3	3.1864	3.1864	0.163

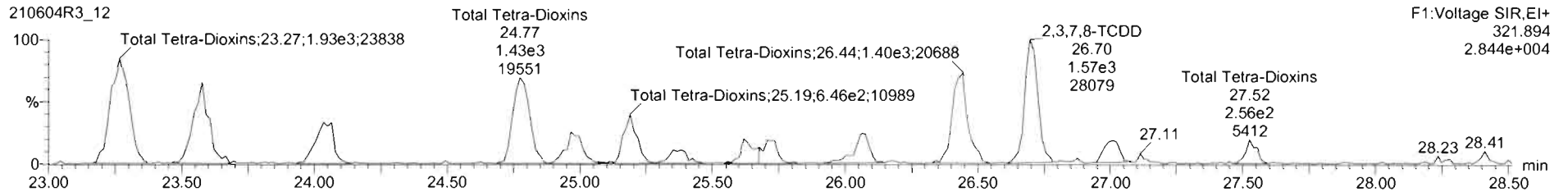
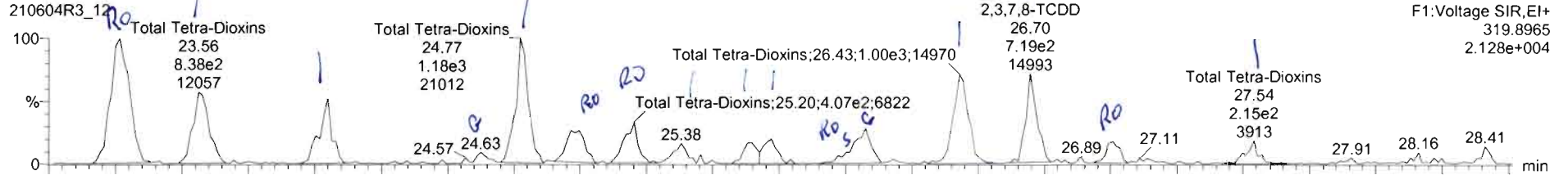
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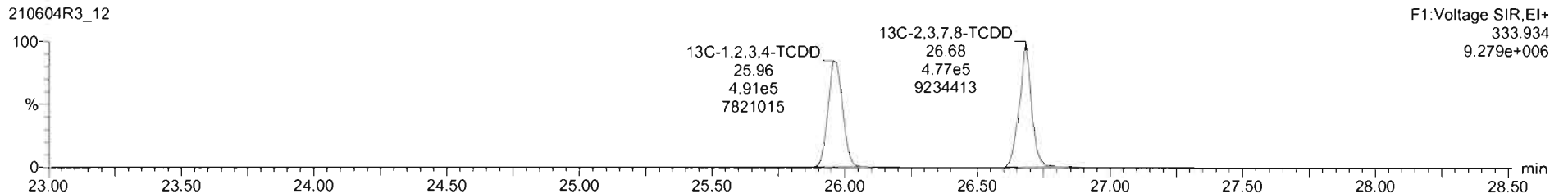
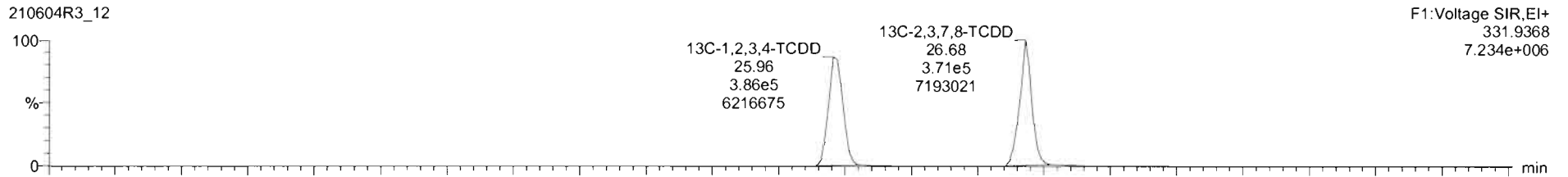
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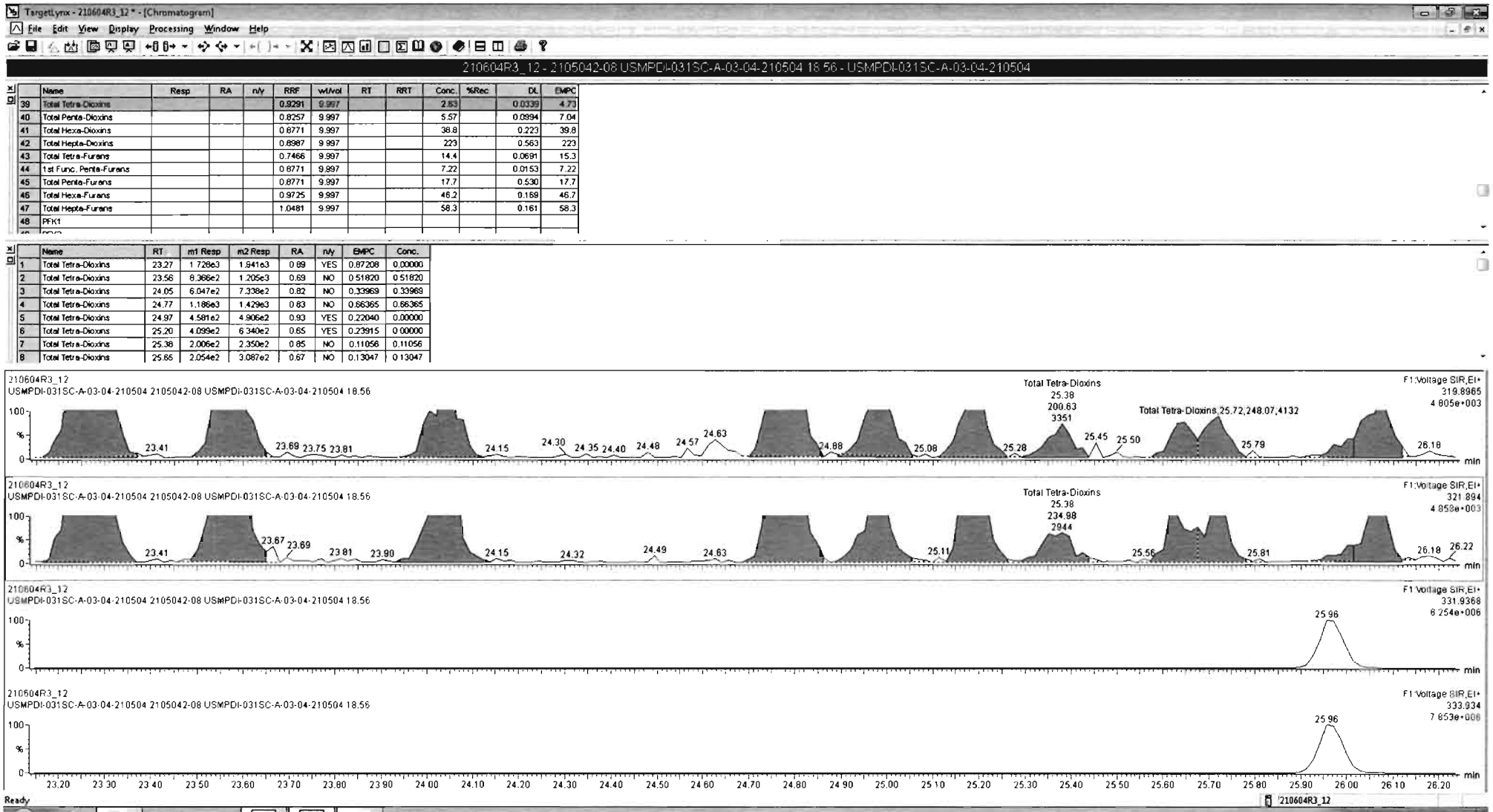
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2,3,7,8-TCDD



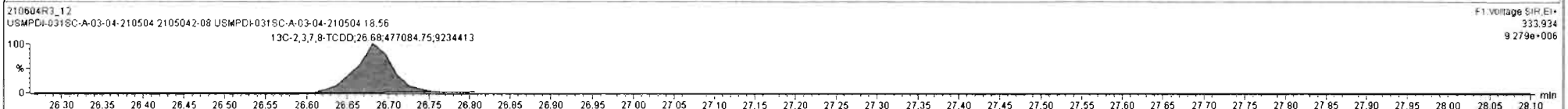
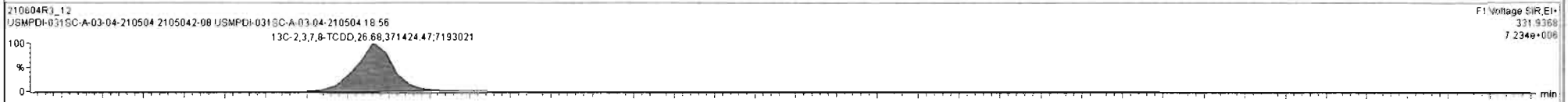
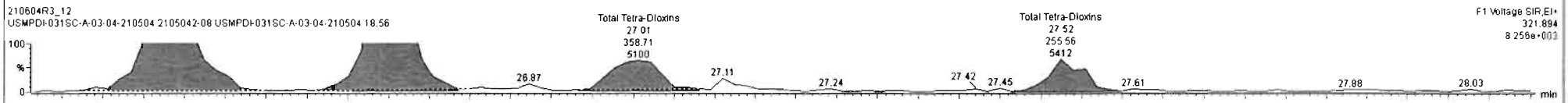
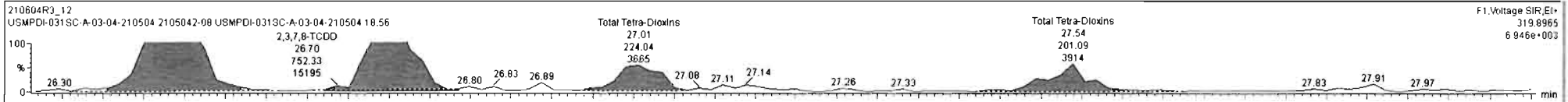
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Name	Resp	RA	n/y	RRF	wtAvol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	9.997			2.63	0.0339		4.73
40 Total Penta-Dioxins				0.8257	9.997			5.57	0.0894		7.04
41 Total Hexa-Dioxins				0.8771	9.997			38.8	0.223		39.8
42 Total Hepta-Dioxins				0.8987	9.997			223	0.563		223
43 Total Tetra-Furans				0.7466	9.997			14.4	0.0691		15.3
44 1st Func. Penta-Furans				0.8771	9.997			7.22	0.0153		7.22
45 Total Penta-Furans				0.8771	9.997			17.7	0.530		17.7
46 Total Hexa-Furans				0.9725	9.997			46.2	0.169		46.7
47 Total Hepta-Furans				1.0481	9.997			58.3	0.161		58.3
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.27	1.729e3	1.941e3	0.89	YES	0.67208	0.00000
2 Total Tetra-Dioxins	23.56	8.365e2	1.205e3	0.69	NO	0.51820	0.51820
3 Total Tetra-Dioxins	24.05	6.047e2	7.338e2	0.82	NO	0.33969	0.33969
4 Total Tetra-Dioxins	24.77	1.186e3	1.429e3	0.83	NO	0.66365	0.66365
5 Total Tetra-Dioxins	24.97	4.581e2	4.906e2	0.93	YES	0.22040	0.00000
6 Total Tetra-Dioxins	25.20	4.099e2	6.340e2	0.65	YES	0.23915	0.00000
7 Total Tetra-Dioxins	25.38	2.006e2	2.350e2	0.85	NO	0.11056	0.11056
8 Total Tetra-Dioxins	25.65	2.054e2	3.087e2	0.67	NO	0.13047	0.13047



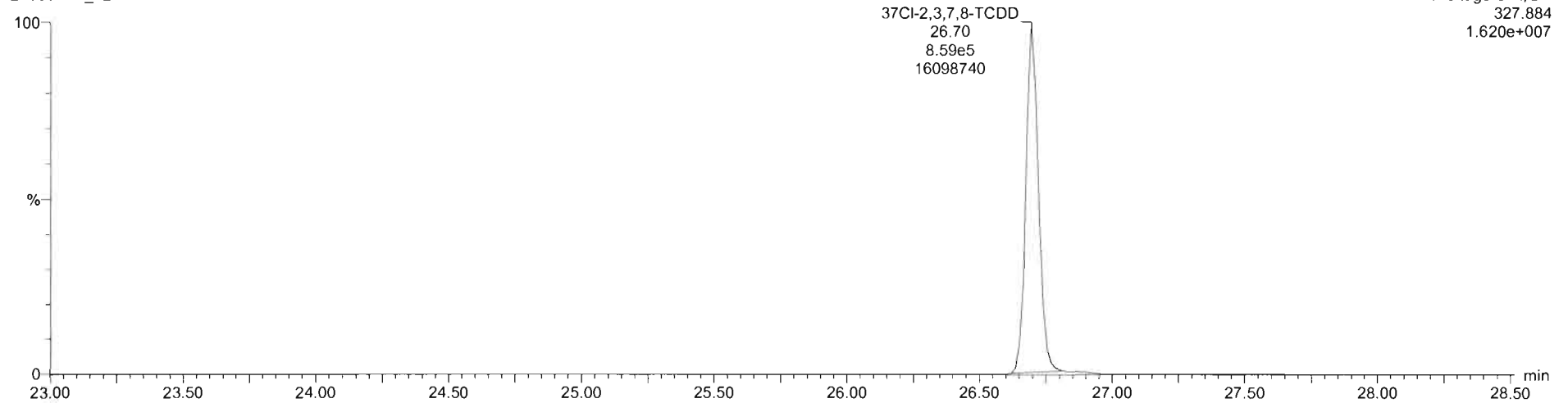
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Name: 210604R3_12, Date: 05-Jun-2021, Time: 06:03:43, ID: 2105042-08 USMPDI-031SC-A-03-04-210504 18.56, Description: USMPDI-031SC-A-03-04-210504

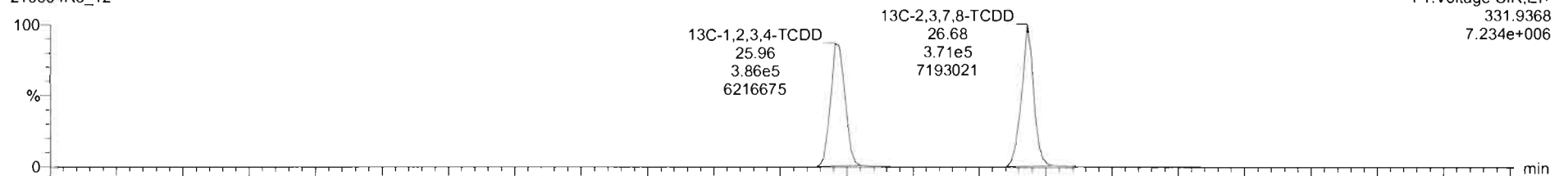
37Cl-2,3,7,8-TCDD

210604R3_12

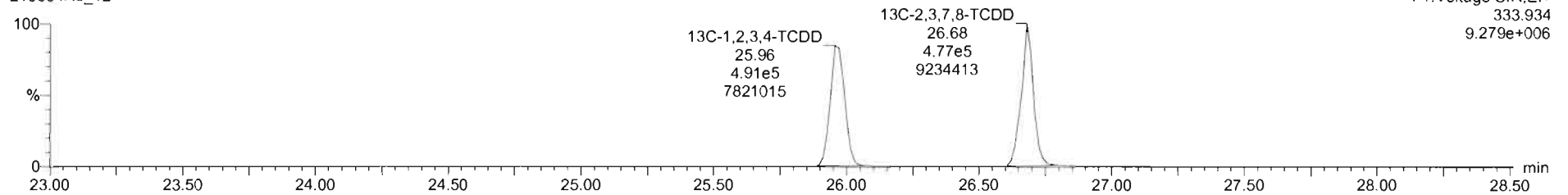


13C-1,2,3,4-TCDD

210604R3_12



210604R3_12

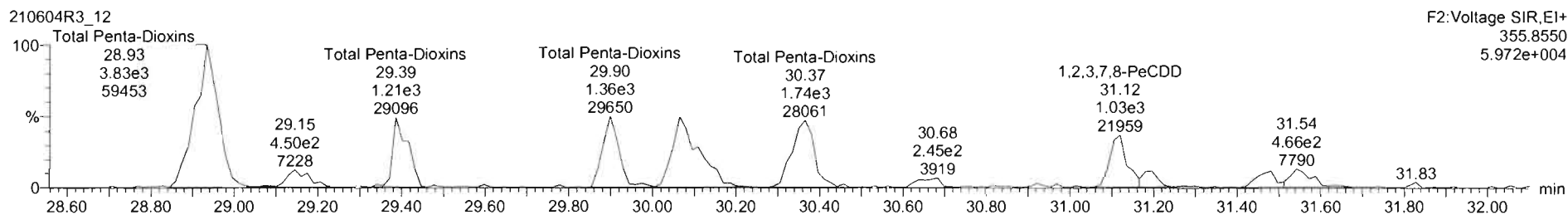
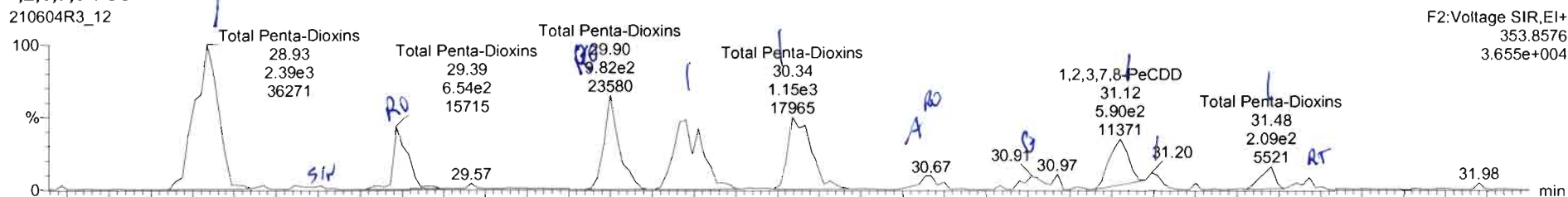


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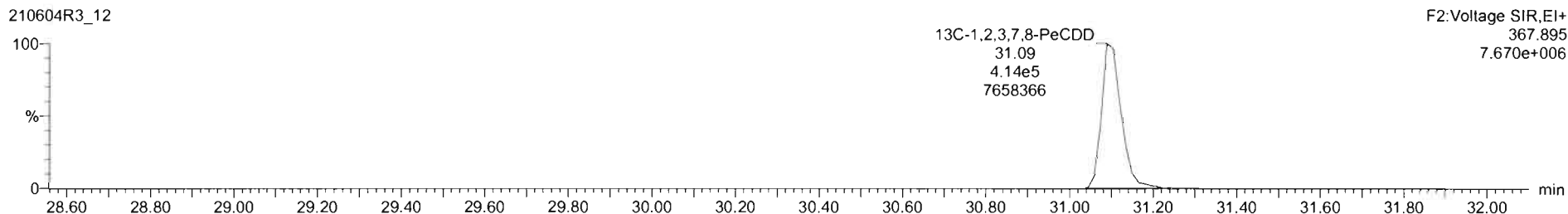
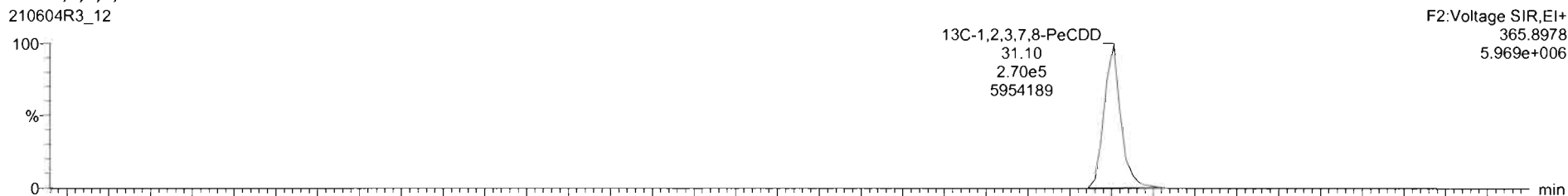
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Name: 210604R3_12, Date: 05-Jun-2021, Time: 06:03:43, ID: 2105042-08 USMPDI-031SC-A-03-04-210504 18.56, Description: USMPDI-031SC-A-03-04-210504

1,2,3,7,8-PeCDD



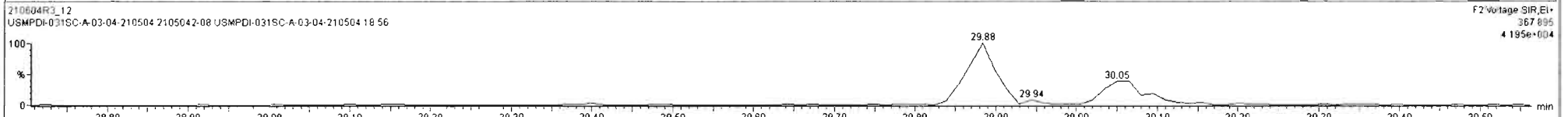
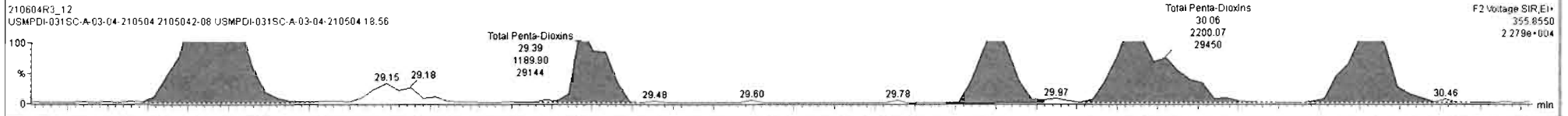
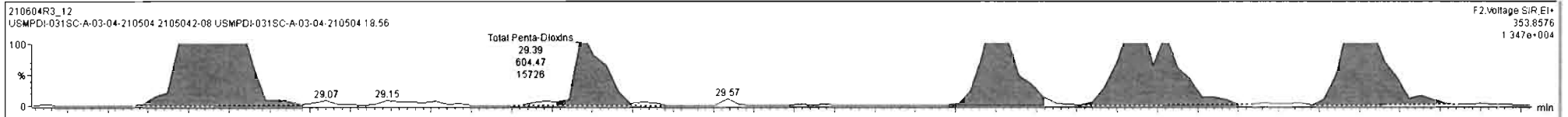
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210604R3_12 - 2105042-08 USMPDI-031SC-A-03-04-210504 18:56 - USMPDI-031SC-A-03-04-210504

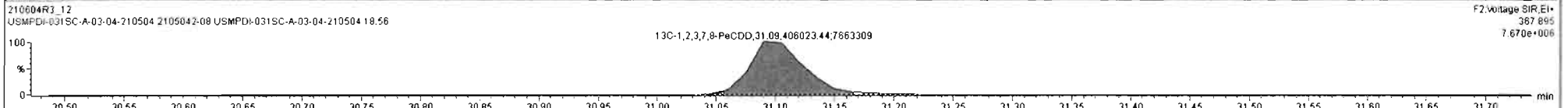
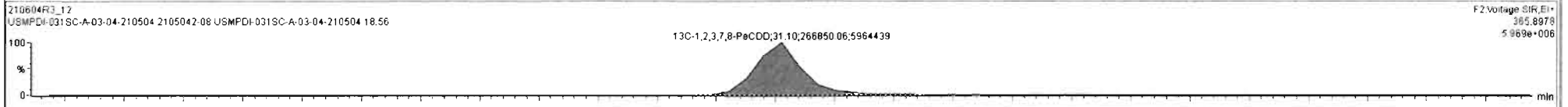
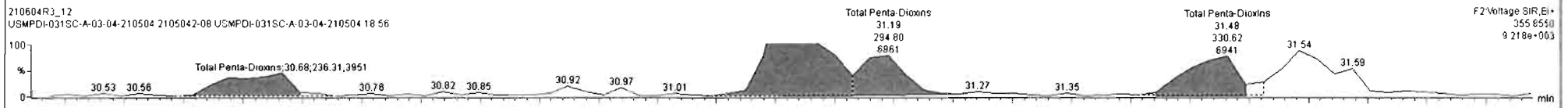
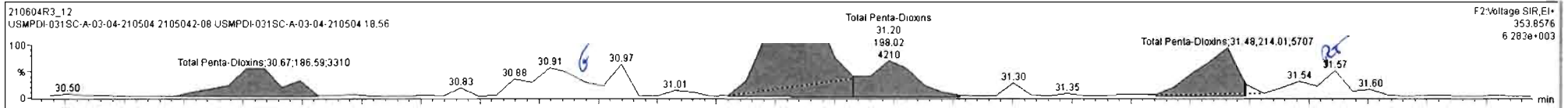
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	9.997			2.63	0.0339	4.56	
40 Total Penta-Dioxins				0.8257	9.997			5.56	0.0594	7.04	
41 Total Hexa-Dioxins				0.8771	9.997			36.1	0.223	36.1	
42 Total Hepta-Dioxins				0.8987	9.997			223	0.563	223	
43 Total Tetra-Furans				0.7466	9.997			14.4	0.0691	15.4	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.93	2.411e3	3.830e3	0.63	NO	2.2475	2.2475
2 Total Penta-Dioxins	29.39	6.045e2	1.190e3	0.51	YES	0.56318	0.00000
3 Total Penta-Dioxins	29.90	9.890e2	1.319e3	0.73	YES	0.77393	0.00000
4 Total Penta-Dioxins	30.06	1.369e3	2.200e3	0.62	NO	1.2852	1.2852
5 Total Penta-Dioxins	30.34	1.152e3	1.710e3	0.67	NO	1.0309	1.0309
6 Total Penta-Dioxins	30.67	1.866e2	2.353e2	0.79	YES	0.13870	0.00000
7 1,2,3,7,8-PeCDD	31.12	7.052e2	1.036e3	0.68	NO	0.62704	0.62704
8 Total Penta-Dioxins	31.19	1.980e2	2.946e2	0.67	NO	0.17746	0.17746
9 Total Penta-Dioxins	31.48	2.140e2	3.309e2	0.65	NO	0.19612	0.19612



#	Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.8291	9.997			2.63		0.0339	4.56
40	Total Penta-Dioxins				0.6257	9.997			5.56		0.0994	7.03
41	Total Hexa-Dioxins				0.8771	9.997			38.8		0.223	39.8
42	Total Hepta-Dioxins				0.8987	9.997			223		0.563	223
43	Total Tetra-Furans				0.7466	9.997			14.4		0.0691	15.3
44	1st Func. Penta-Furans				0.8771	9.997			7.22		0.0153	7.22
45	Total Penta-Furans				0.8771	9.997			17.71		0.5301	17.71

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	28.93	2.411e3	3.830e3	0.63	NO	2.2475	2.2475
2	Total Penta-Dioxins	29.39	6.045e2	1.190e3	0.51	YES	0.56318	0.00000
3	Total Penta-Dioxins	29.90	9.740e2	1.313e3	0.74	YES	0.77060	0.00000
4	Total Penta-Dioxins	30.08	1.369e3	2.192e3	0.62	NO	1.2823	1.2823
5	Total Penta-Dioxins	30.34	1.152e3	1.710e3	0.67	NO	1.0309	1.0309
6	Total Penta-Dioxins	30.67	1.866e2	2.363e2	0.79	YES	0.13870	0.00000
7	1,2,3,7,8-PeCDD	31.12	7.052e2	1.036e3	0.68	NO	0.62704	0.62704
8	Total Penta-Dioxins	31.20	1.980e2	2.949e2	0.67	NO	0.17746	0.17746
9	Total Penta-Dioxins	31.48	2.140e2	3.306e2	0.65	NO	0.19612	0.19612



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_12.qld

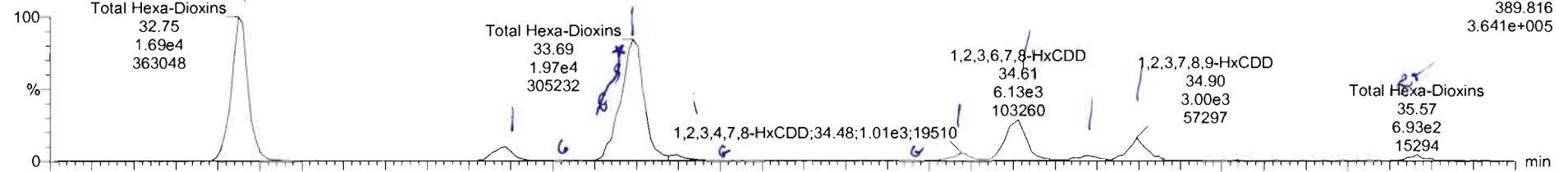
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Printed: Saturday, June 05, 2021 10:32:55 AM Pacific Daylight Time

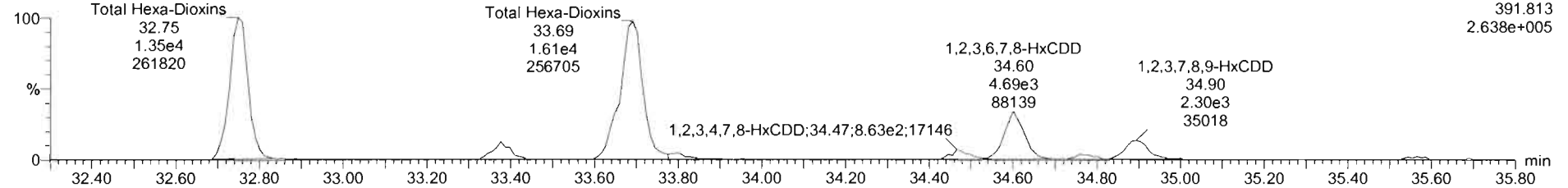
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Name: 210604R3_12, Date: 05-Jun-2021, Time: 06:03:43, ID: 2105042-08 USMPDI-031SC-A-03-04-210504 18.56, Description: USMPDI-031SC-A-03-04-210504

1,2,3,4,7,8-HxCDD

210604R3_12

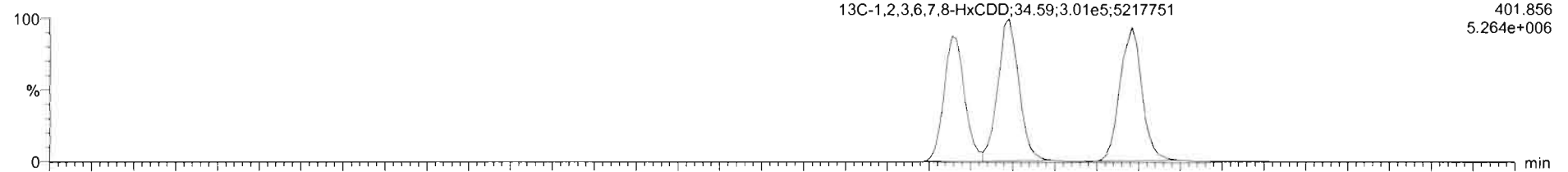


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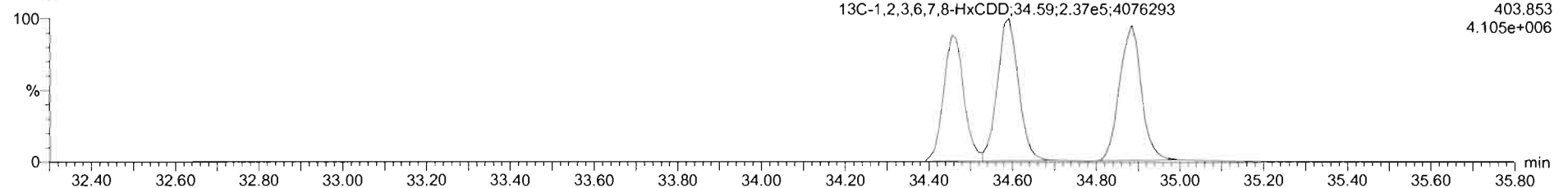


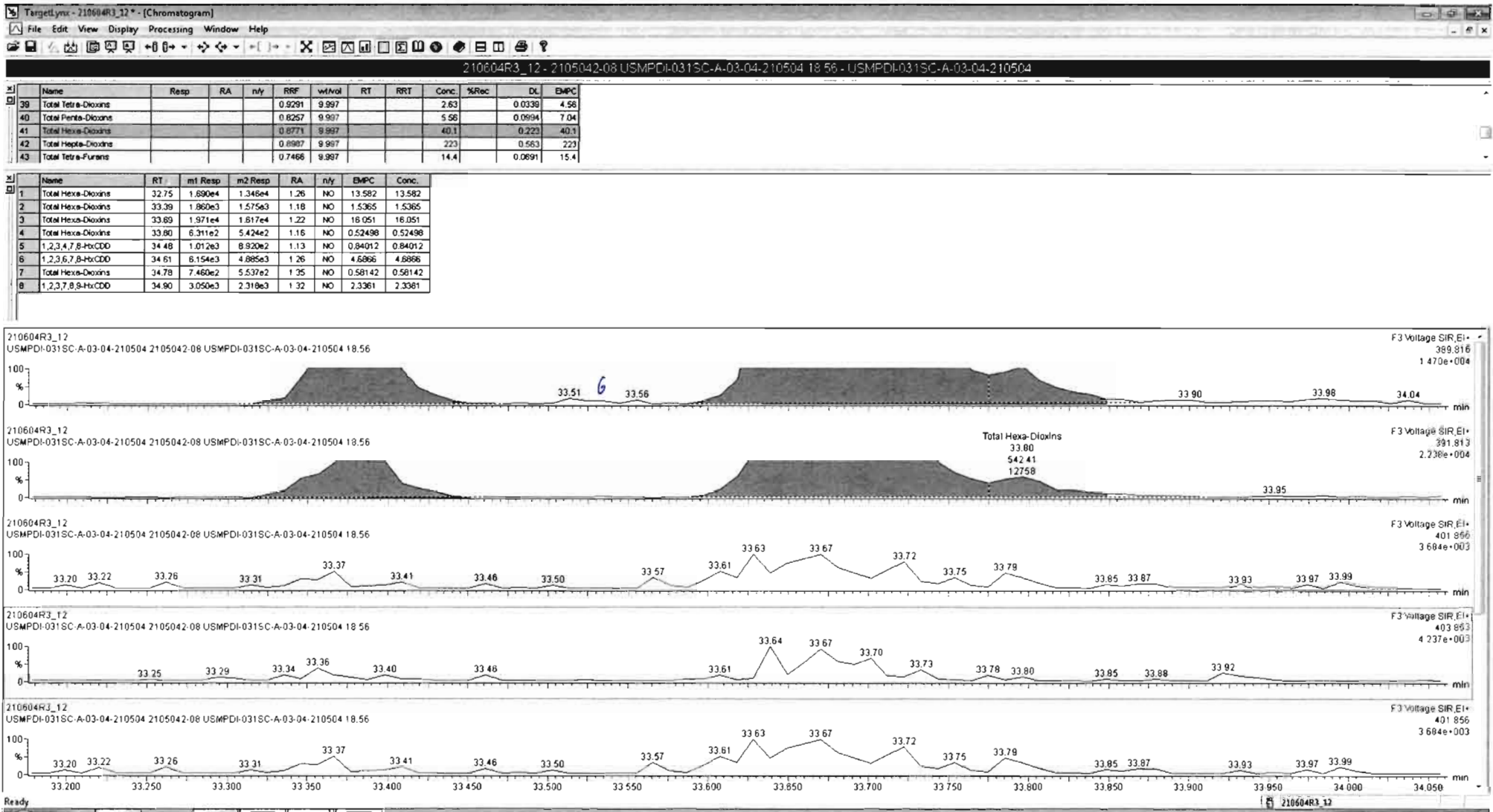
13C-1,2,3,4,7,8-HxCDD

210604R3_12



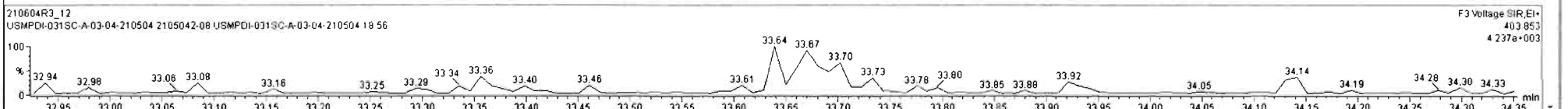
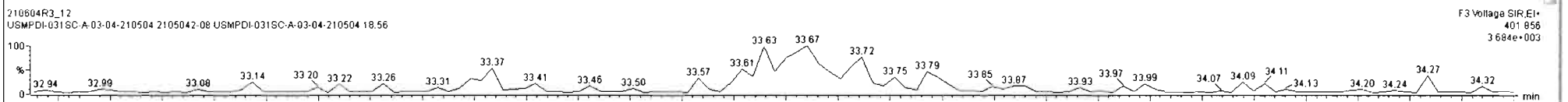
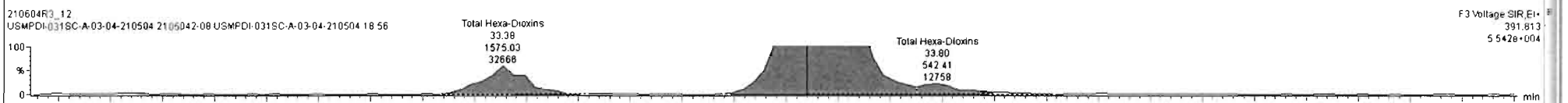
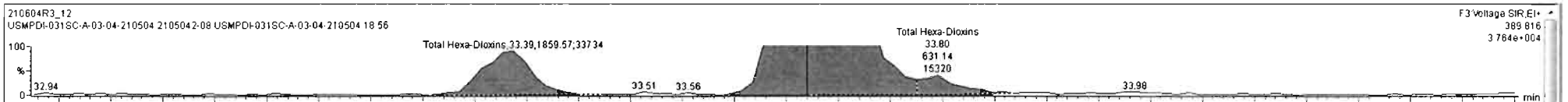
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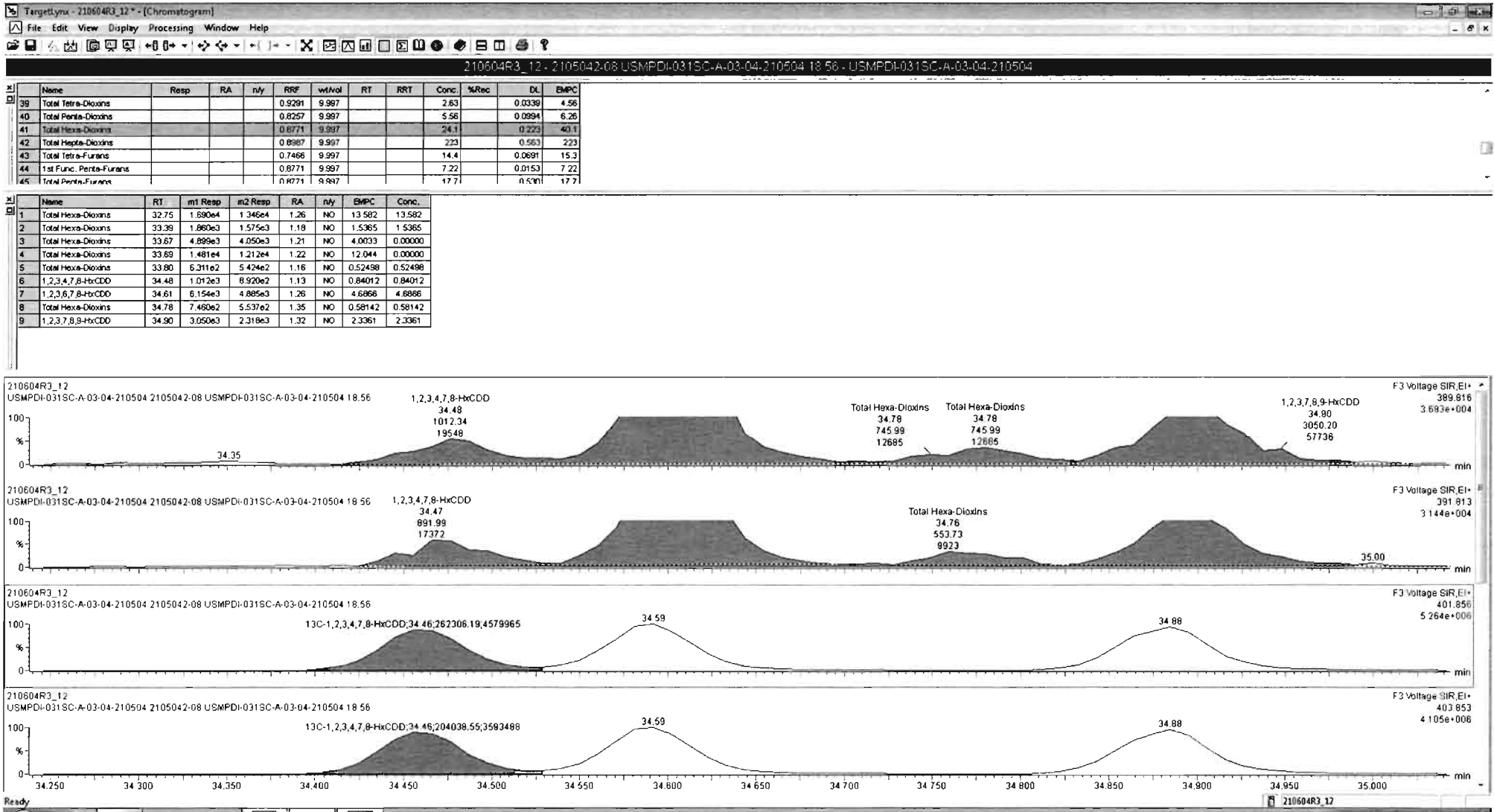




Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	9.997			2.63	0.0339	4.56	
40 Total Penta-Dioxins				0.6257	9.997			5.56	0.0894	6.26	
41 Total Hexa-Dioxins				0.8771	9.997			24.1	0.222	40.1	
42 Total Hepta-Dioxins				0.8987	9.997			223	0.563	223	
43 Total Tetra-Furans				0.7466	9.997			14.4	0.0691	15.3	
44 1st Func. Penta-Furans				0.8771	9.997			7.22	0.0153	7.22	
45 Total Penta-Furans				0.8771	9.997			17.71	0.5301	17.71	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.75	1.690e4	1.346e4	1.26	NO	13.582	13.582
2 Total Hexa-Dioxins	33.29	1.860e3	1.575e3	1.18	NO	1.5365	1.5365
3 Total Hexa-Dioxins	33.67	4.898e3	4.050e3	1.21	NO	4.0033	0.00000
4 Total Hexa-Dioxins	33.69	1.481e4	1.212e4	1.22	NO	12.044	0.00000
5 Total Hexa-Dioxins	33.80	6.311e2	5.424e2	1.16	NO	0.52498	0.52498
6 1,2,3,4,7,8-HxCDD	34.48	1.012e3	8.920e2	1.13	NO	0.84012	0.84012
7 1,2,3,6,7,8-HxCDD	34.61	6.154e3	4.885e3	1.26	NO	4.6866	4.6866
8 Total Hexa-Dioxins	34.78	7.460e2	5.537e2	1.35	NO	0.58142	0.58142
9 1,2,3,7,8,9-HxCDD	34.90	3.050e3	2.318e3	1.32	NO	2.3361	2.3361





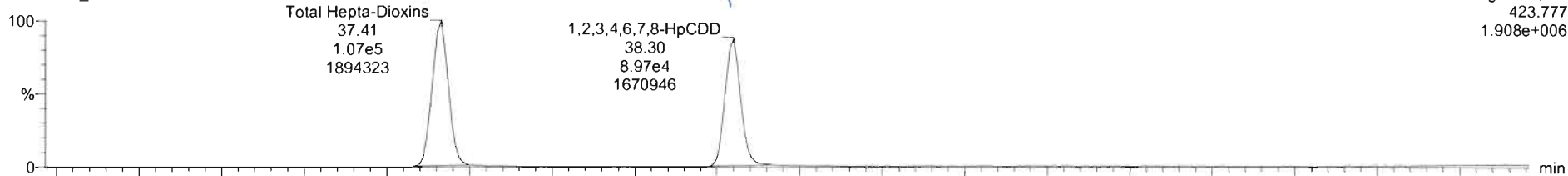
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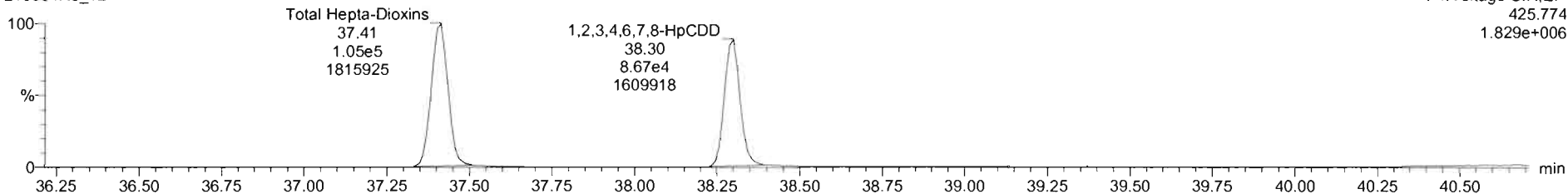
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1,2,3,4,6,7,8-HpCDD

210604R3_12

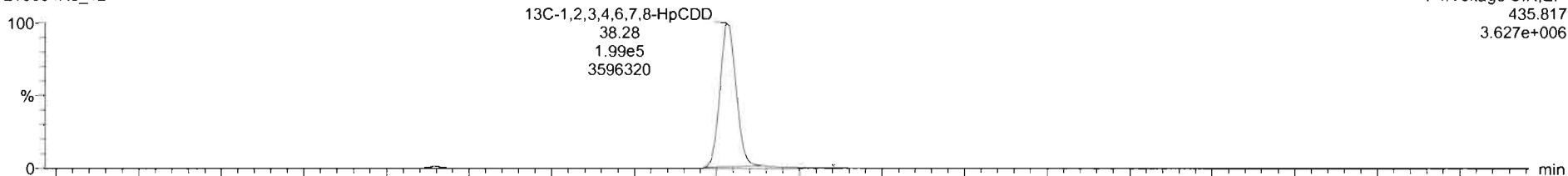


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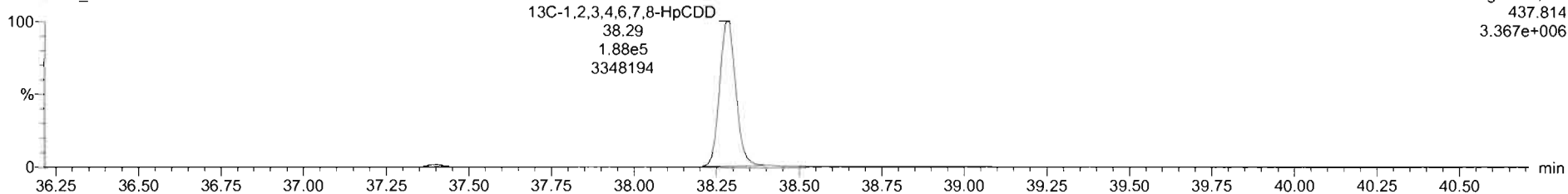


13C-1,2,3,4,6,7,8-HpCDD

210604R3_12



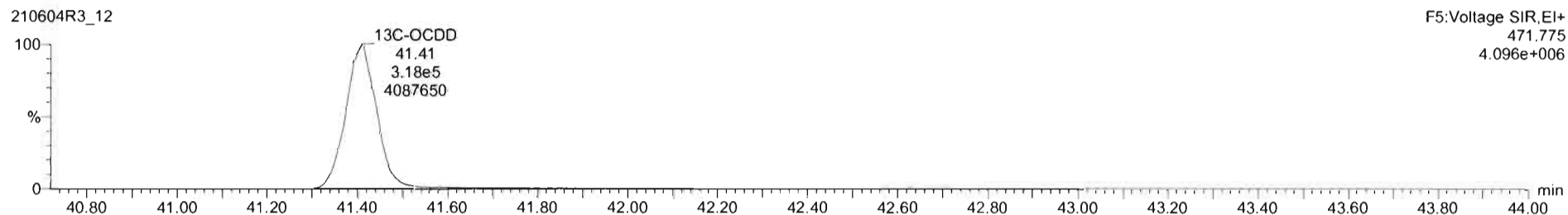
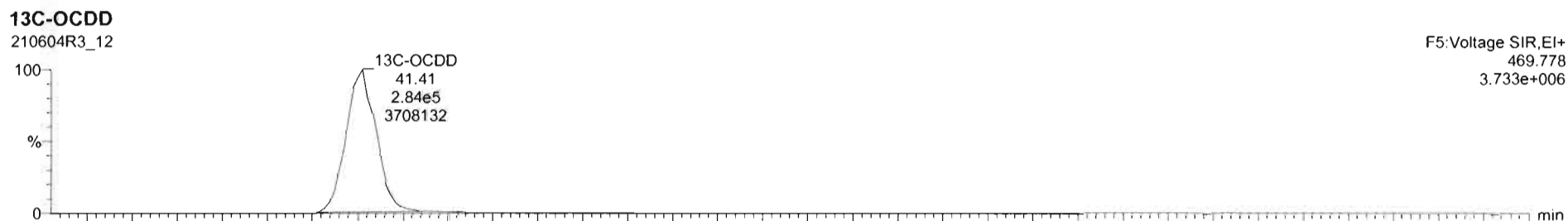
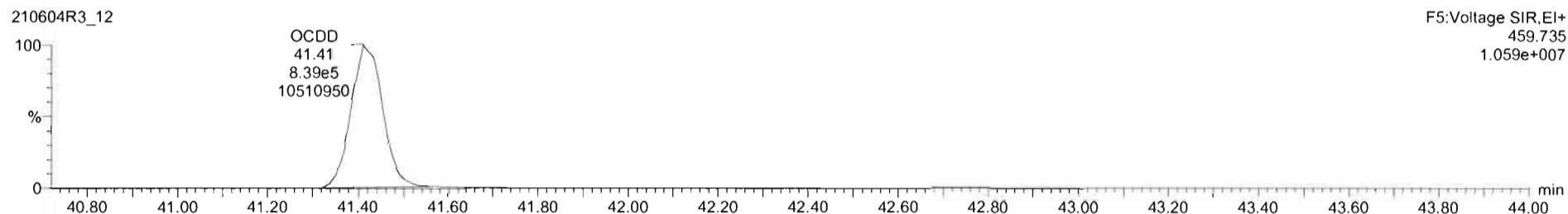
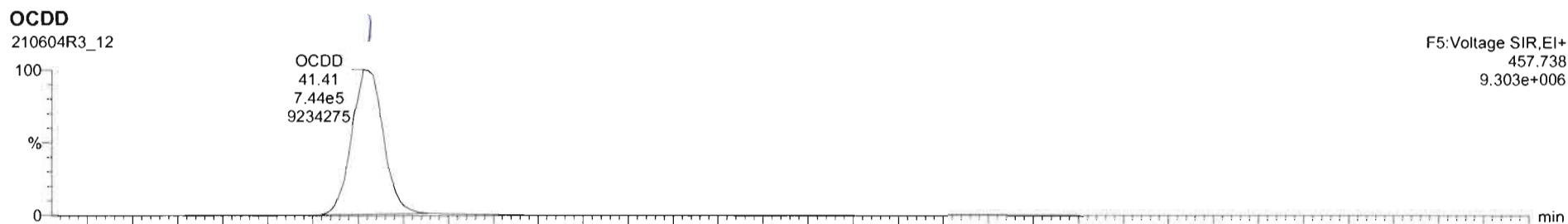
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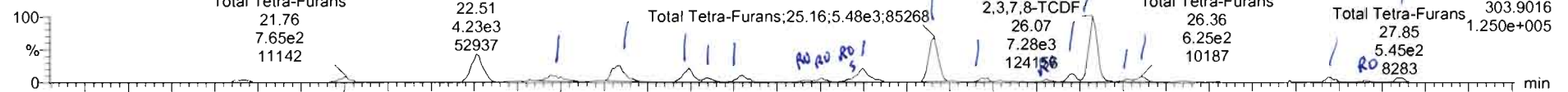
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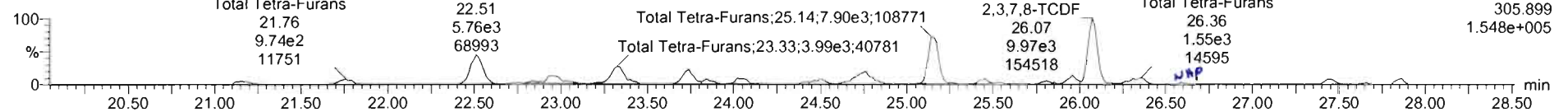
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2,3,7,8-TCDF

210604R3_12



210604R3_12

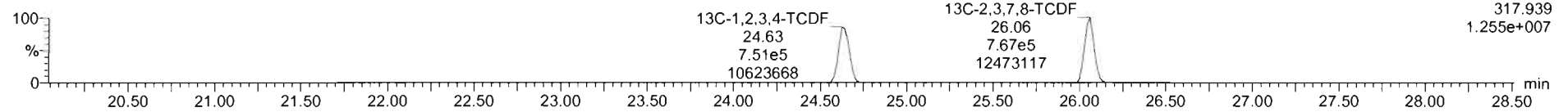


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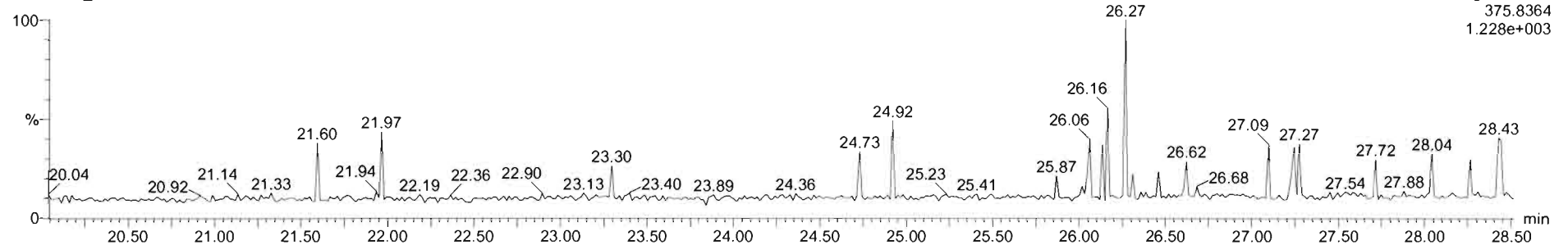


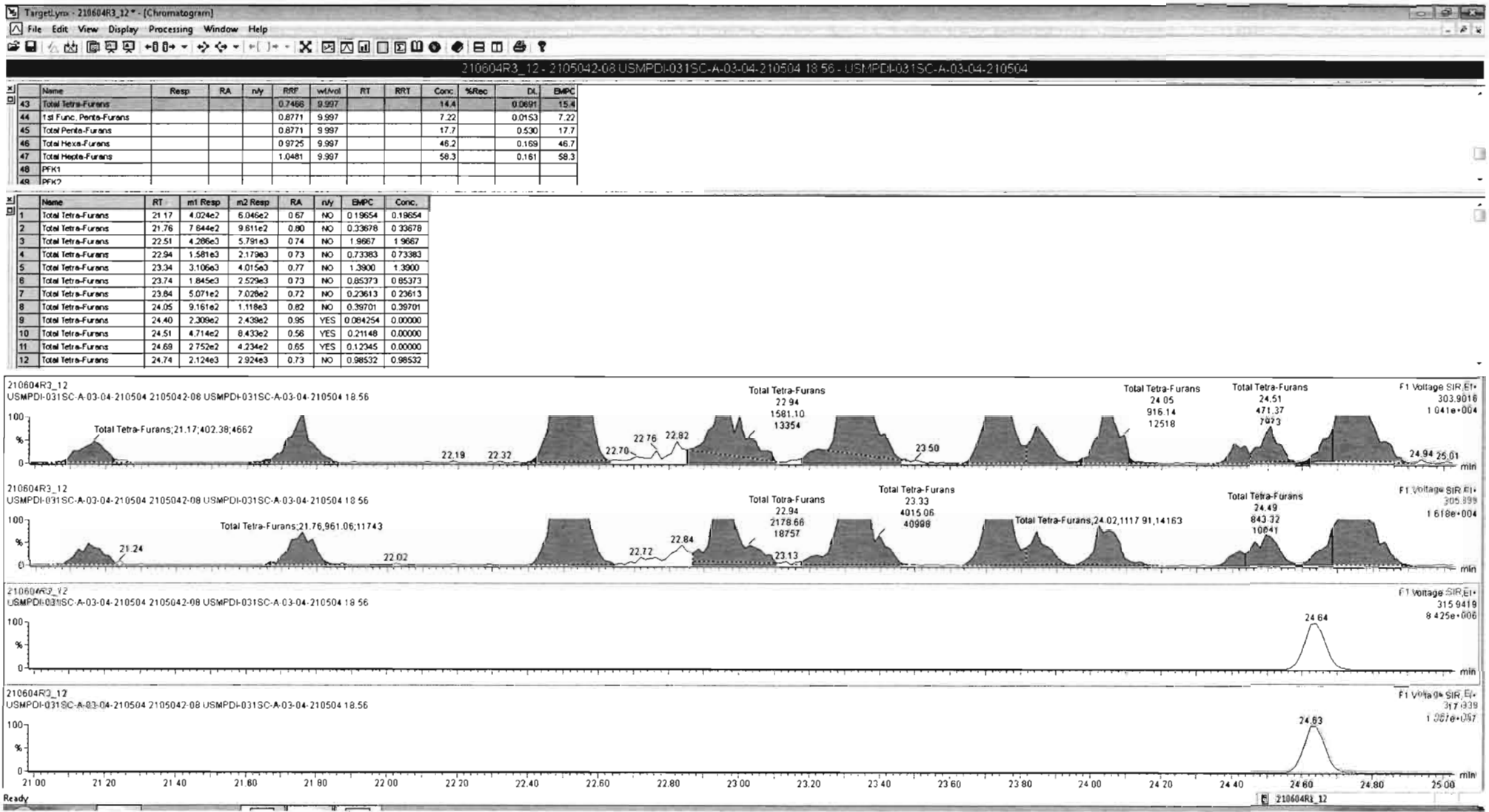
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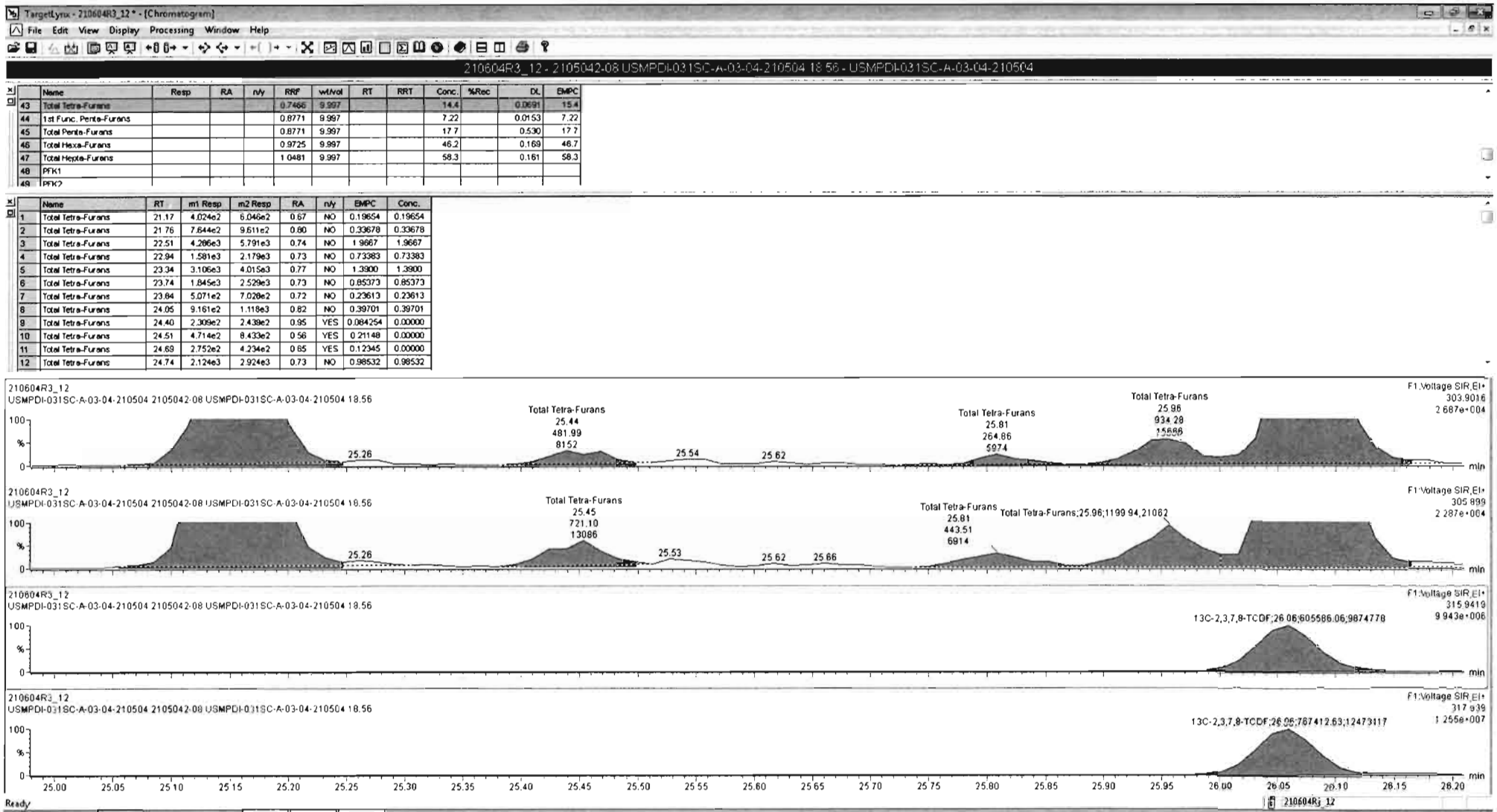


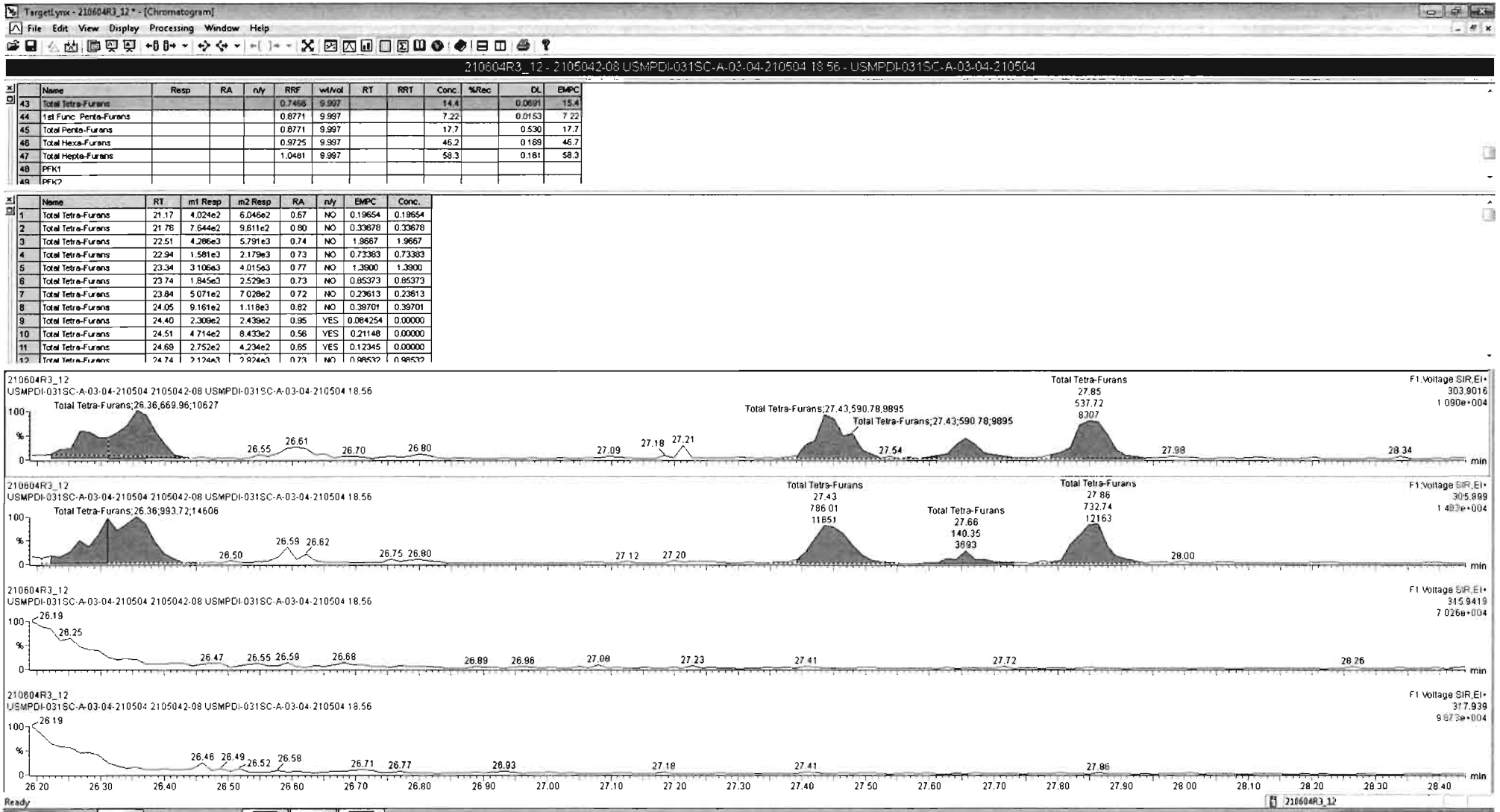
DPE1

210604R3_12









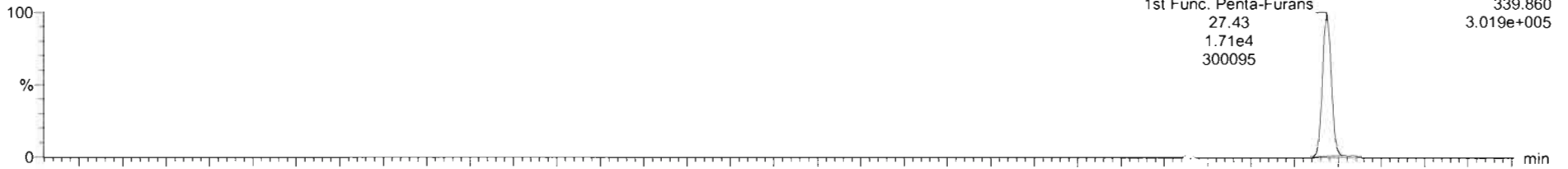
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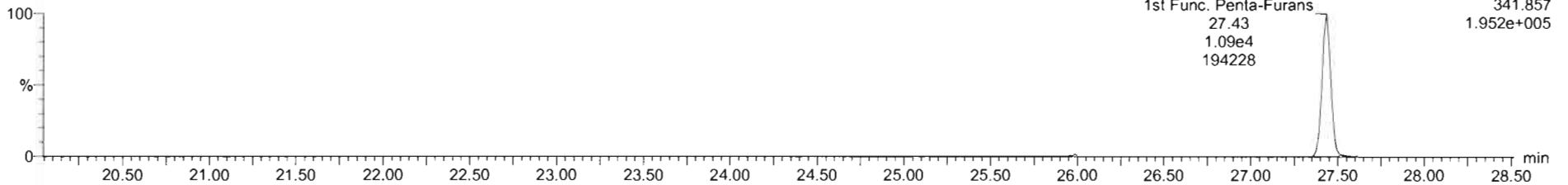
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1st Func. Penta-Furans

210604R3_12

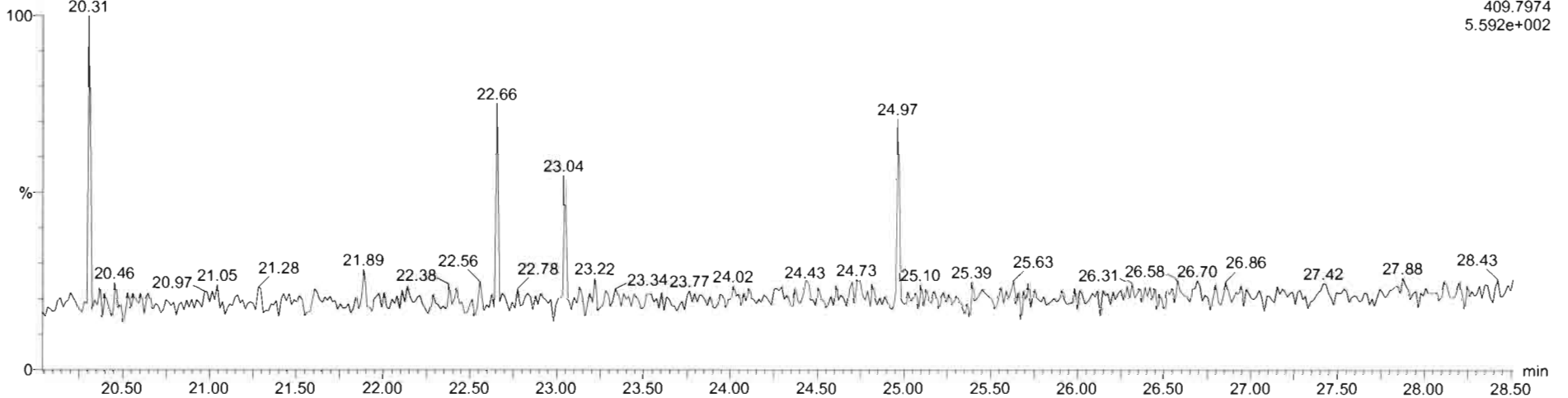


210604R3_12



DPE6

210604R3_12

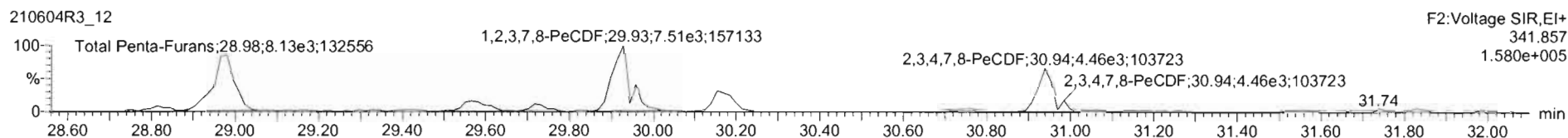
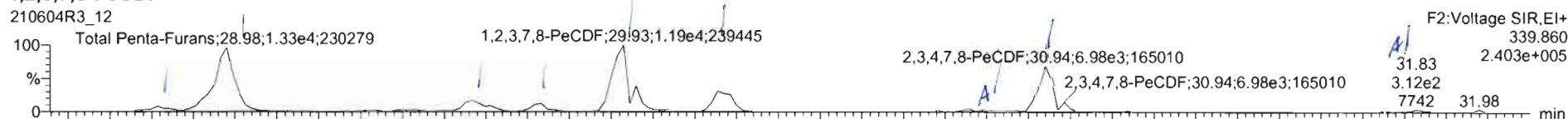


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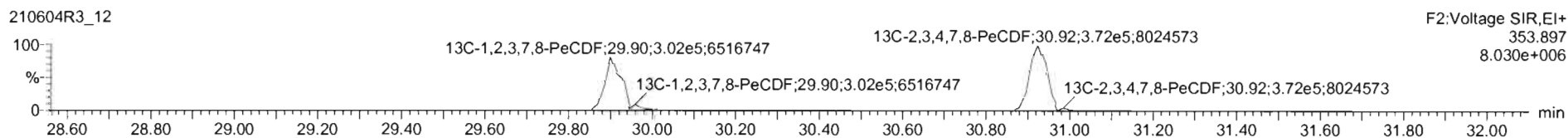
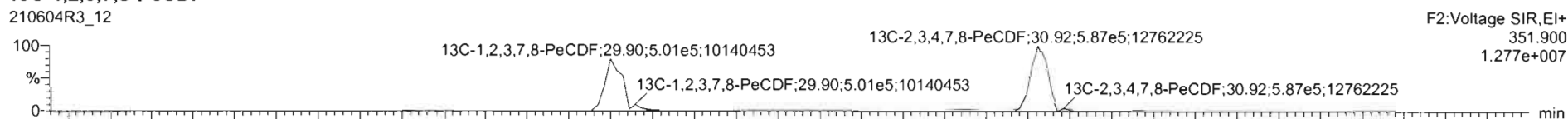
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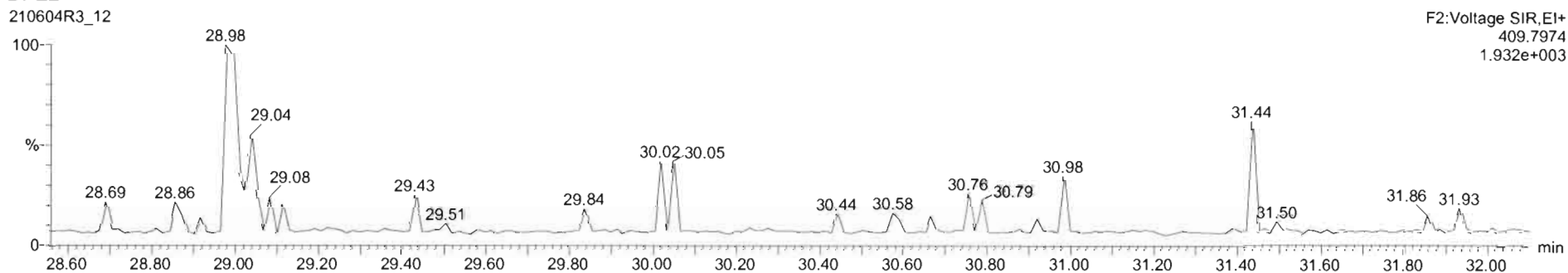
1,2,3,7,8-PeCDF

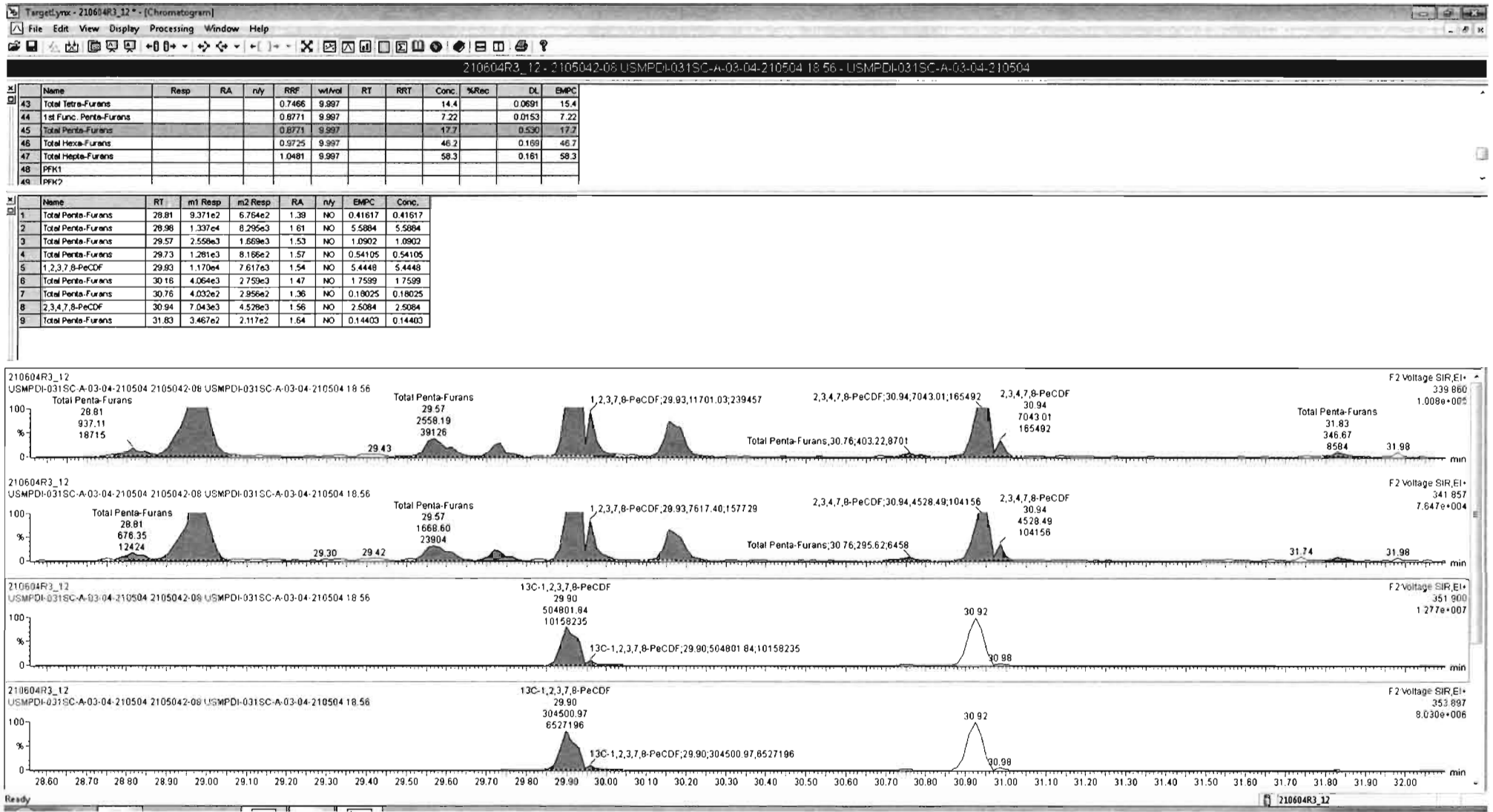


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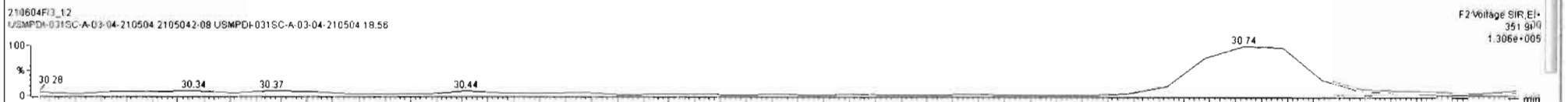
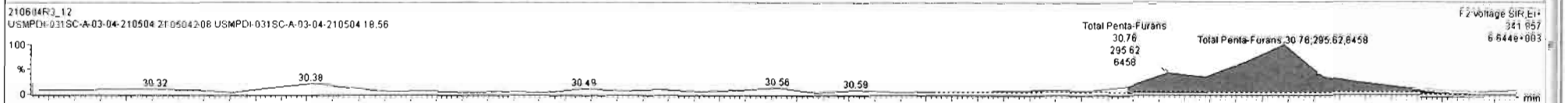
DPE2





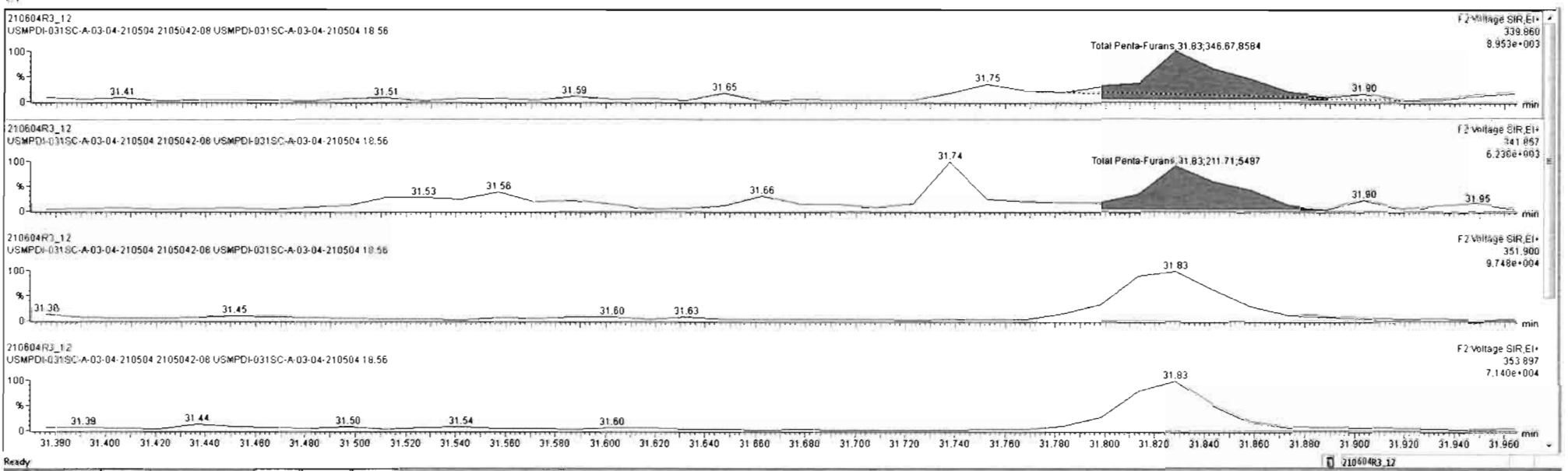
Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	9.997			14.4		0.0691	15.4
44 1st Func. Penta-Furans				0.8771	9.997			7.22		0.0153	7.22
45 Total Penta-Furans				0.8771	9.997			17.7		0.530	17.7
46 Total Hexa-Furans				0.9725	9.997			46.2		0.169	46.7
47 Total Hepta-Furans				1.0481	9.997			58.3		0.161	58.3
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.81	9.371e2	6.754e2	1.39	NO	0.41617	0.41617
2 Total Penta-Furans	28.98	1.337e4	8.295e3	1.61	NO	5.5884	5.5884
3 Total Penta-Furans	29.57	2.558e3	1.669e3	1.53	NO	1.0902	1.0902
4 Total Penta-Furans	29.73	1.281e3	8.166e2	1.57	NO	0.54105	0.54105
5 1,2,3,7,8-PeCDF	29.93	1.170e4	7.617e3	1.54	NO	5.4448	5.4448
6 Total Penta-Furans	30.16	4.064e3	2.759e3	1.47	NO	1.7599	1.7599
7 Total Penta-Furans	30.76	4.032e2	2.956e2	1.36	NO	0.18025	0.18025
8 2,3,4,7,8-PeCDF	30.94	7.043e3	4.528e3	1.56	NO	2.5084	2.5084
9 Total Penta-Furans	31.83	3.467e2	2.117e2	1.64	NO	0.14403	0.14403



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	9.997			14.4		0.0691	15.4
44 1st Func. Penta-Furans				0.8771	9.997			7.22		0.0153	7.22
45 Total Penta-Furans				0.8771	9.997			17.2		0.530	17.2
46 Total Hexa-Furans				0.8725	9.997			46.2		0.169	46.7
47 Total Hepta-Furans				1.0481	9.997			58.3		0.161	58.3
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.81	9.371e2	6.764e2	1.39	NO	0.41617	0.41617
2 Total Penta-Furans	28.90	1.337e4	8.295e3	1.61	NO	5.5884	5.5884
3 Total Penta-Furans	29.57	2.558e3	1.669e3	1.53	NO	1.0902	1.0902
4 Total Penta-Furans	29.73	1.281e3	8.166e2	1.57	NO	0.54105	0.54105
5 1,2,3,7,8-PeCDF	29.93	1.170e4	7.617e3	1.54	NO	5.4448	5.4448
6 Total Penta-Furans	30.16	4.064e3	2.759e3	1.47	NO	1.7599	1.7599
7 Total Penta-Furans	30.76	4.032e2	2.856e2	1.36	NO	0.18025	0.18025
8 2,3,4,7,8-PeCDF	30.94	7.043e3	4.528e3	1.56	NO	2.5084	2.5084
9 Total Penta-Furans	31.83	3.467e2	2.117e2	1.64	NO	0.14403	0.14403

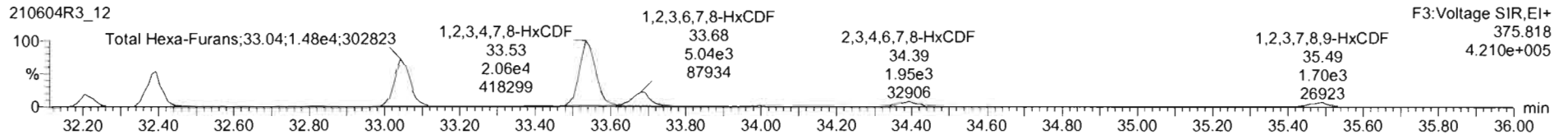
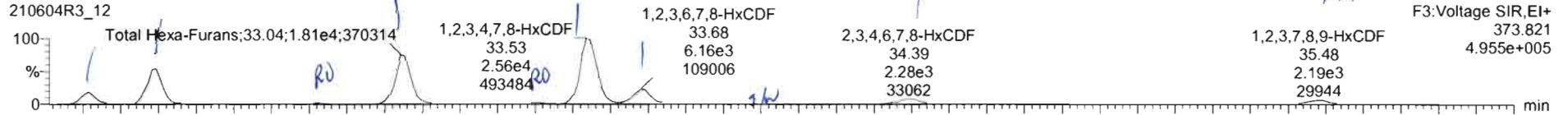


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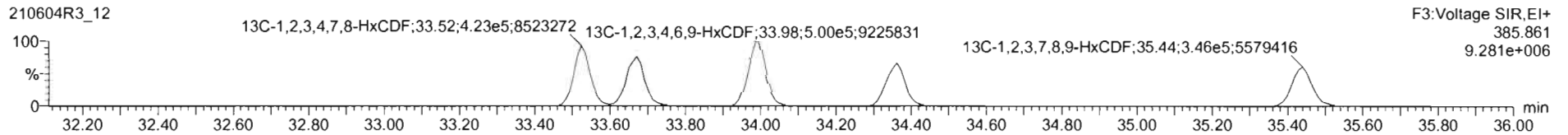
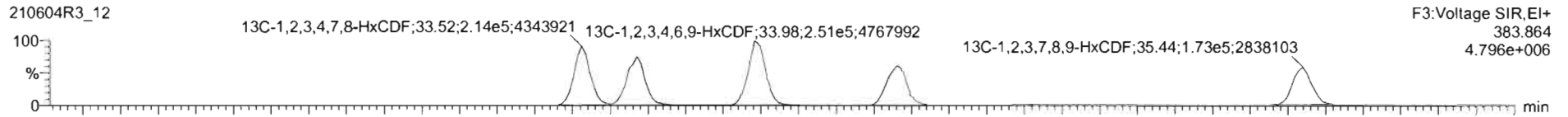
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Name: 210604R3_12, Date: 05-Jun-2021, Time: 06:03:43, ID: 2105042-08 USMPDI-031SC-A-03-04-210504 18.56, Description: USMPDI-031SC-A-03-04-210504

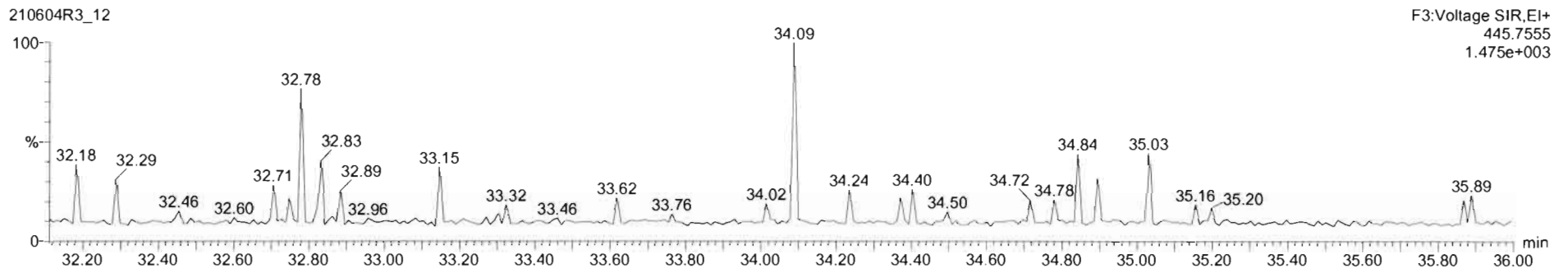
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13C-1,2,3,4,7,8-HxCDF

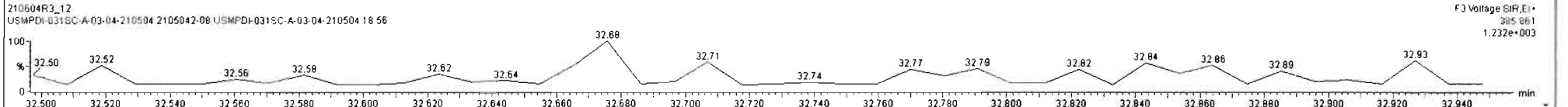
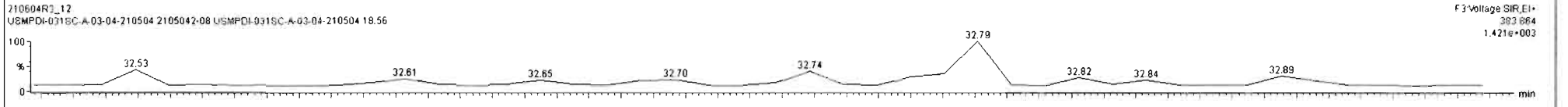
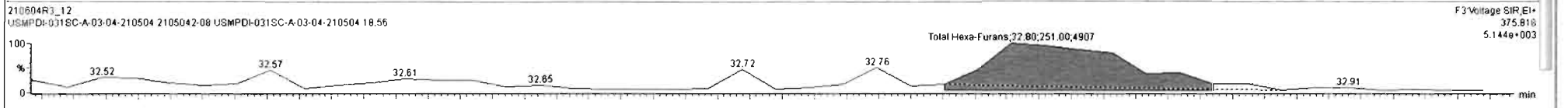
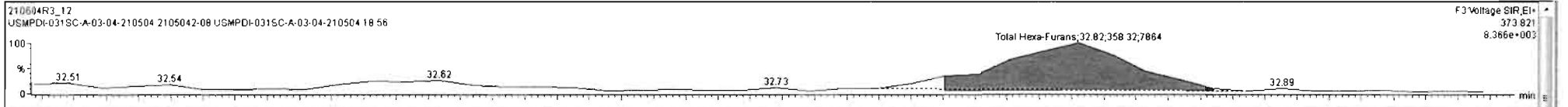


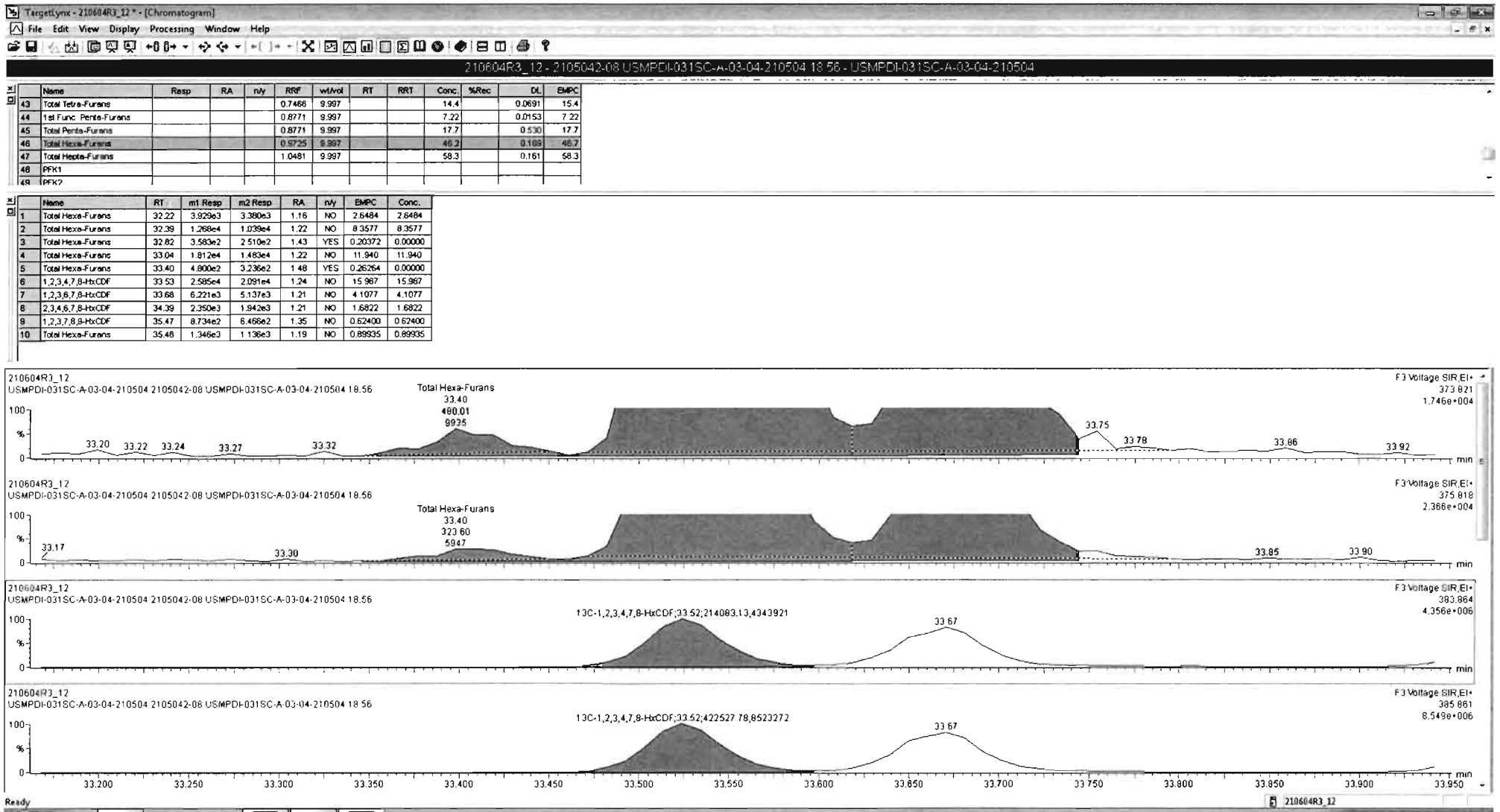
DPE3



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	9.997			14.4		0.0691	15.4
44 1st Func. Penta-Furans				0.8771	9.997			7.22		0.0153	7.22
45 Total Penta-Furans				0.8771	9.997			17.7		0.530	17.7
46 Total Hexa-Furans				0.9725	9.997			46.2		0.168	46.2
47 Total Hepta-Furans				1.0481	9.997			58.3		0.161	58.3
48 PFK1											
49 PFK2											

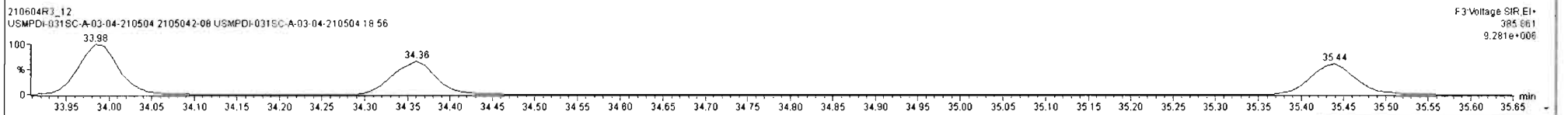
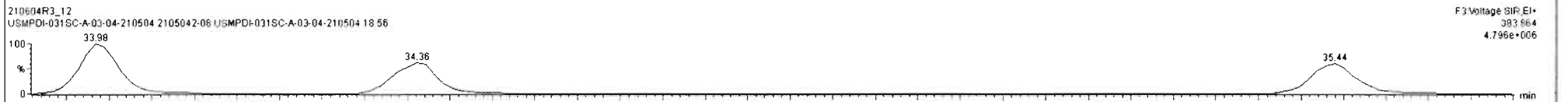
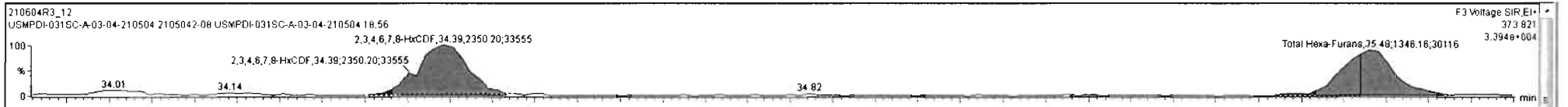
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	3.929e3	3.390e3	1.16	NO	2.6484	2.6484
2 Total Hexa-Furans	32.39	1.268e4	1.039e4	1.22	NO	8.3577	8.3577
3 Total Hexa-Furans	32.82	3.583e2	2.510e2	1.43	YES	0.20372	0.00000
4 Total Hexa-Furans	33.04	1.812e4	1.483e4	1.22	NO	11.940	11.940
5 Total Hexa-Furans	33.40	4.800e2	3.236e2	1.48	YES	0.26264	0.00000
6 1,2,3,4,7,8-HxCDF	33.53	2.585e4	2.091e4	1.24	NO	15.967	15.967
7 1,2,3,6,7,8-HxCDF	33.68	6.221e3	5.137e3	1.21	NO	4.1077	4.1077
8 2,3,4,6,7,8-HxCDF	34.39	2.350e3	1.942e3	1.21	NO	1.6822	1.6822
9 1,2,3,7,8,9-HxCDF	35.47	8.734e2	6.466e2	1.35	NO	0.62400	0.62400
10 Total Hexa-Furans	35.48	1.346e3	1.196e3	1.19	NO	0.89935	0.89935





Name	Resp	RA	n/y	RRF	wtAvail	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	9.997			14.4		0.0691	15.4
44 1st Func. Penta-Furans				0.8771	9.997			7.22		0.0153	7.22
45 Total Penta-Furans				0.8771	9.997			17.7		0.530	17.7
46 Total Hexa-Furans				0.9725	9.997			46.2		0.168	46.2
47 Total Hepta-Furans				1.0481	9.997			59.3		0.161	59.3
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	3.829e3	3.390e3	1.16	NO	2.6494	2.6494
2 Total Hexa-Furans	32.39	1.268e4	1.039e4	1.22	NO	8.3577	8.3577
3 Total Hexa-Furans	32.82	3.583e2	2.510e2	1.43	YES	0.20372	0.00000
4 Total Hexa-Furans	33.04	1.812e4	1.483e4	1.22	NO	11.940	11.940
5 Total Hexa-Furans	33.40	4.800e2	3.236e2	1.48	YES	0.26264	0.00000
6 1,2,3,4,7,8-HxCDF	33.53	2.585e4	2.091e4	1.24	NO	15.967	15.967
7 1,2,3,6,7,8-HxCDF	33.68	6.221e3	5.137e3	1.21	NO	4.1077	4.1077
8 2,3,4,6,7,8-HxCDF	34.39	2.350e3	1.942e3	1.21	NO	1.6822	1.6822
9 1,2,3,7,8-HxCDF	35.47	8.734e2	6.466e2	1.35	NO	0.62400	0.62400
10 Total Hexa-Furans	35.48	1.346e3	1.136e3	1.19	NO	0.89935	0.89935



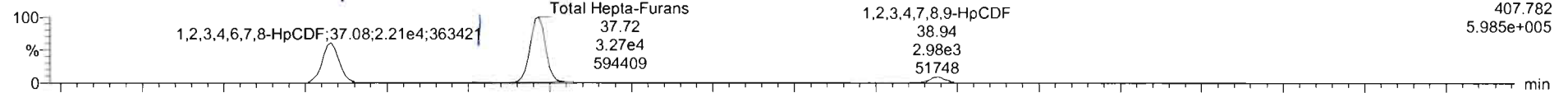
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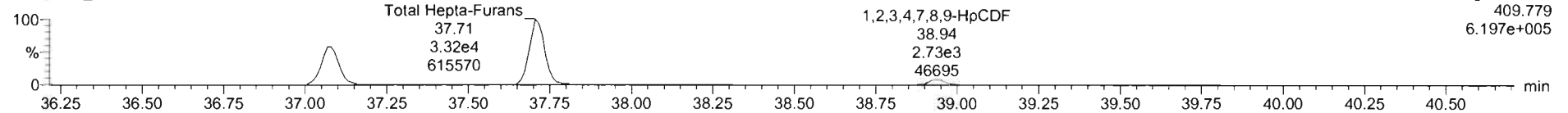
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1,2,3,4,6,7,8-HpCDF

210604R3_12

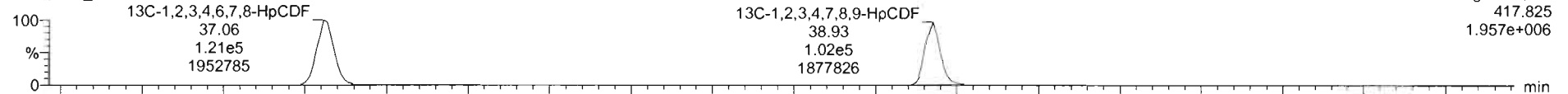


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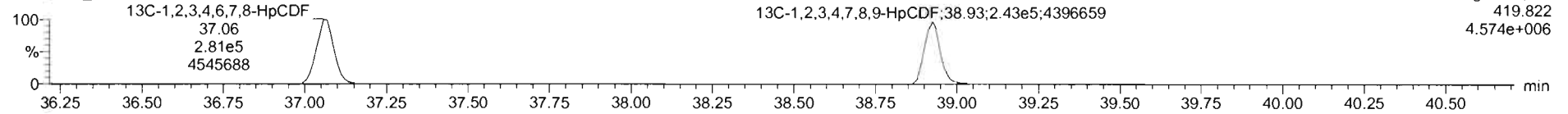


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210604R3_12

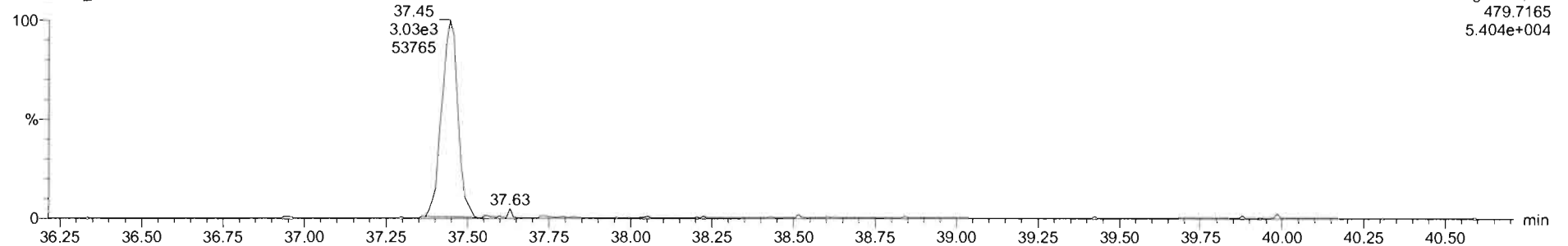


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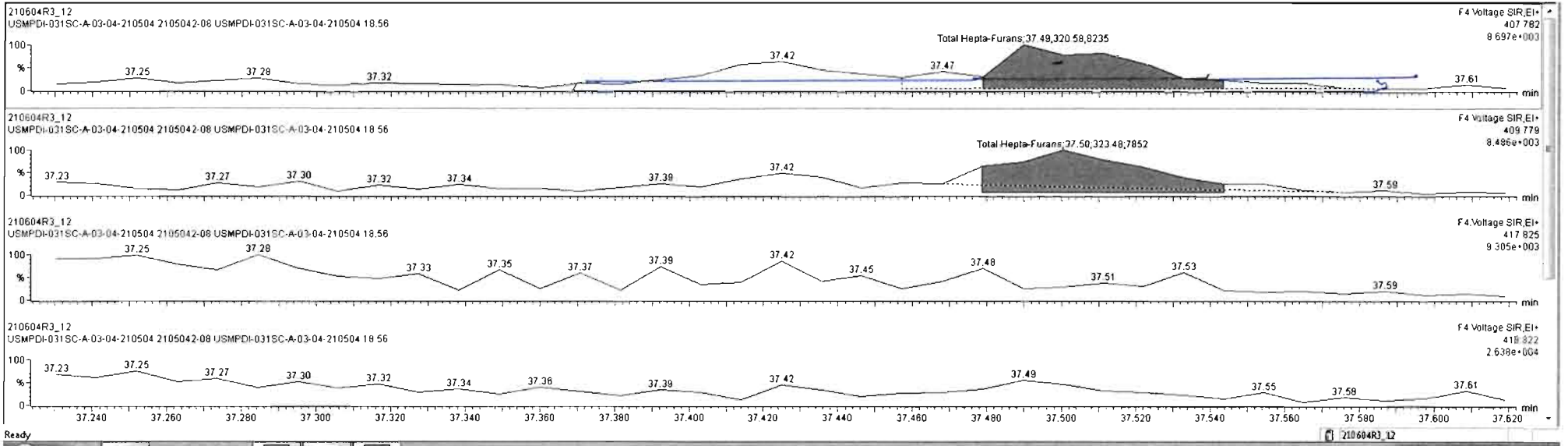
DPE4

210604R3_12



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	9.997			14.4	0.0691	15.4	
44 1st Func. Penta-Furans				0.8771	9.997			7.22	0.0153	7.22	
45 Total Penta-Furans				0.8771	9.997			17.7	0.530	17.7	
46 Total Hexa-Furans				0.9725	9.997			46.2	0.189	46.7	
47 Total Hepta-Furans				1.0481	9.997			56.3	0.181	58.3	
48 PFK1											
49 PFK2											

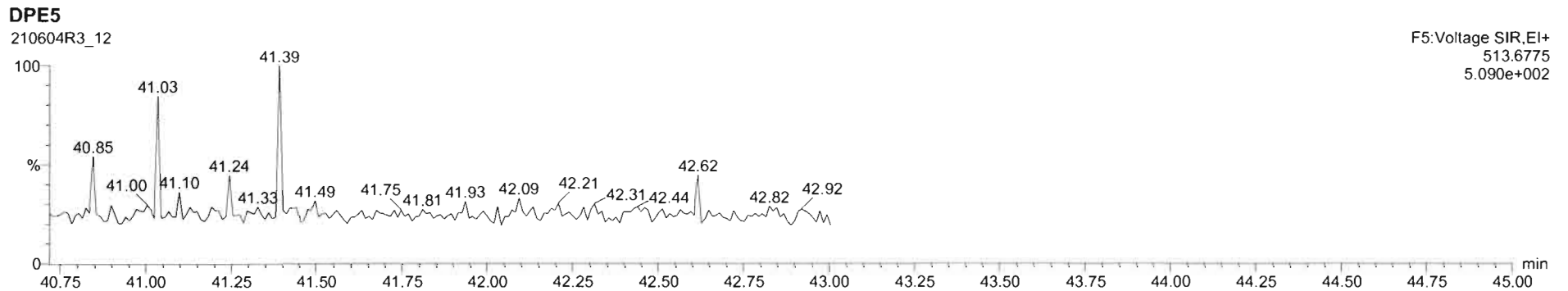
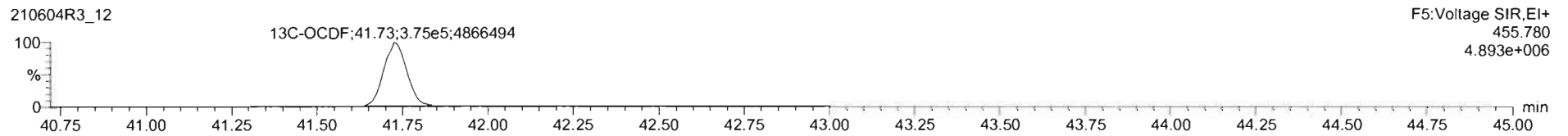
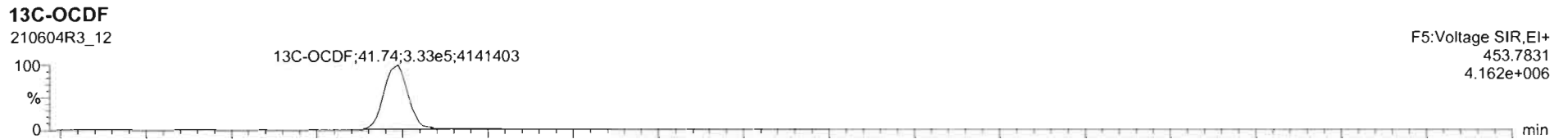
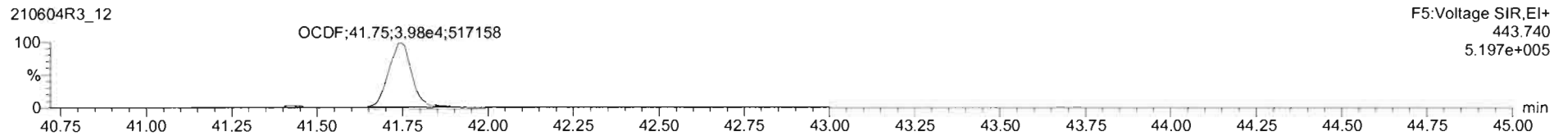
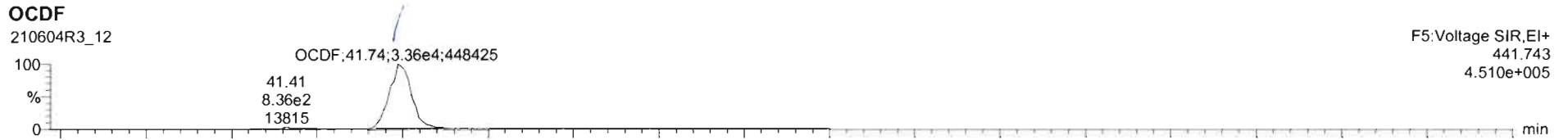
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.08	2.206e4	2.234e4	0.99	NO	21.099	21.099
2 Total Hepta-Furans	37.49	3.206e2	3.235e2	0.99	NO	0.32935	0.32935
3 Total Hepta-Furans	37.72	3.268e4	3.317e4	0.99	NO	33.682	33.682
4 1,2,3,4,7,8,9-HpCDF	38.94	3.002e3	2.737e3	1.10	NO	3.1864	3.1864



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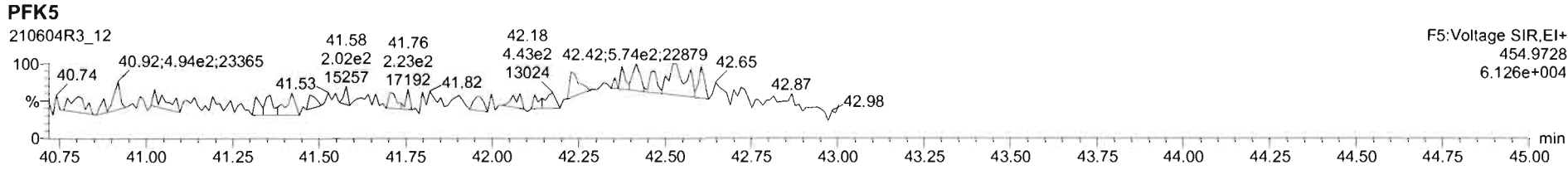
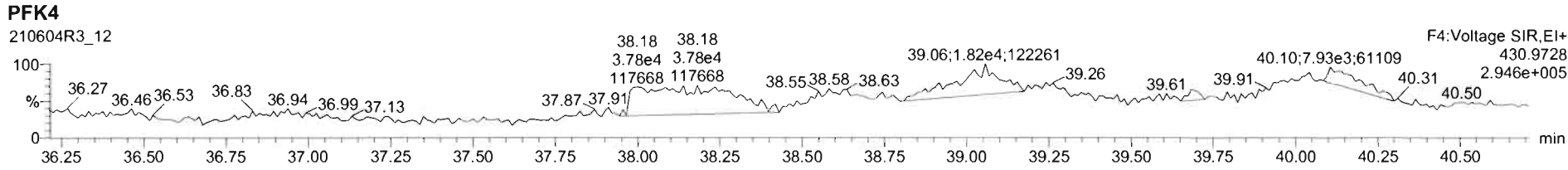
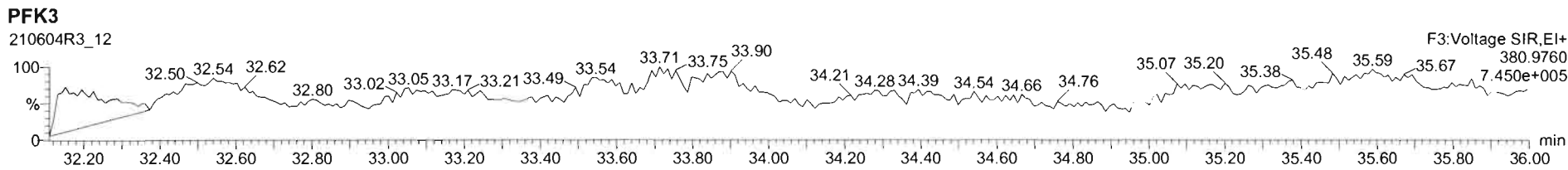
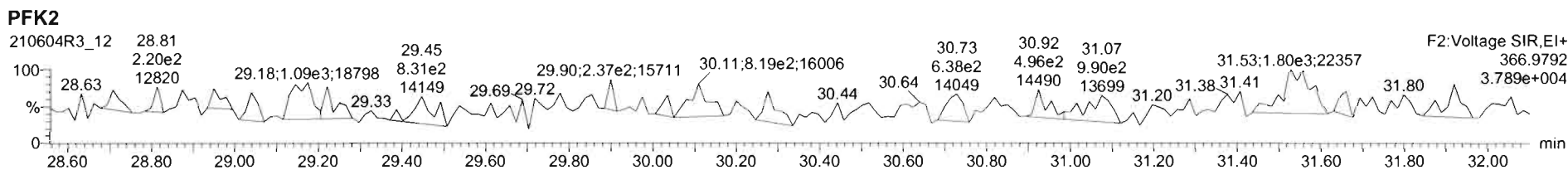
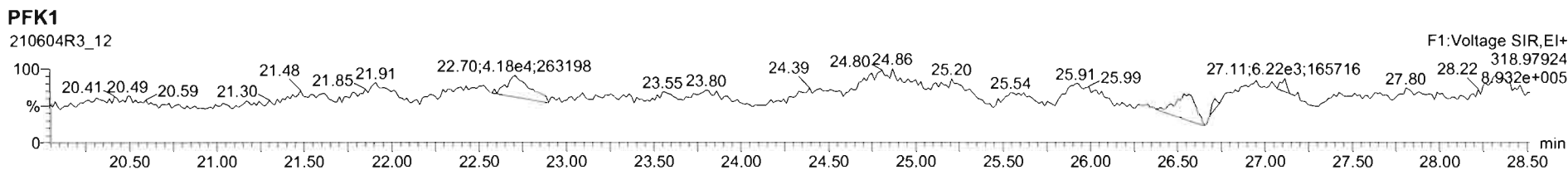
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CT 06/23/2021

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	2.85e3	0.58	YES	0.929	10.000	26.713	26.73	1.001	1.002	1.3092		0.105	1.10
2	2 1,2,3,7,8-PeCDD	5.11e3	0.69	NO	0.826	10.000	31.136	31.12	1.001	1.000	1.8913		0.0952	1.89
3	3 1,2,3,4,7,8-HxCDD	3.67e3	1.42	NO	0.972	10.000	34.487	34.47	1.001	1.000	1.6852		0.178	1.69
4	4 1,2,3,6,7,8-HxCDD	2.86e4	1.24	NO	0.877	10.000	34.613	34.61	1.001	1.001	13.414		0.179	13.4
5	5 1,2,3,7,8,9-HxCDD	1.39e4	1.24	NO	0.874	10.000	34.895	34.91	1.000	1.001	5.9100		0.189	5.91
6	6 1,2,3,4,6,7,8-HpCDD	2.84e5	1.02	NO	0.899	10.000	38.289	38.29	1.000	1.000	165.22		0.618	165
7	7 OCDD	2.17e6	0.88	NO	0.852	10.000	41.367	41.37	1.000	1.000	1712.8		1.12	1710
8	8 2,3,7,8-TCDF	4.07e4	0.71	NO	0.747	10.000	26.063	26.09	1.000	1.001	8.5683		0.0829	8.57
9	9 1,2,3,7,8-PeCDF	3.51e4	1.61	NO	0.877	10.000	29.917	29.93	1.000	1.001	8.3944		0.145	8.39
10	10 2,3,4,7,8-PeCDF	1.83e4	1.58	NO	0.962	10.000	30.946	30.94	1.001	1.000	4.7371		0.137	4.74
11	11 1,2,3,4,7,8-HxCDF	3.75e4	1.23	NO	0.920	10.000	33.523	33.53	1.000	1.001	13.061		0.107	13.1
12	12 1,2,3,6,7,8-HxCDF	1.20e4	1.19	NO	0.936	10.000	33.680	33.68	1.001	1.001	4.1850		0.103	4.19
13	13 2,3,4,6,7,8-HxCDF	6.07e3	1.13	NO	0.973	10.000	34.382	34.38	1.001	1.001	2.3655		0.136	2.37
14	14 1,2,3,7,8,9-HxCDF	1.78e3	1.20	NO	0.940	10.000	35.451	35.47	1.000	1.001	0.77362		0.160	0.774
15	15 1,2,3,4,6,7,8-HpCDF	4.55e4	1.00	NO	1.05	10.000	37.087	37.09	1.000	1.001	21.664		0.135	21.7
16	16 1,2,3,4,7,8,9-HpCDF	5.78e3	1.07	NO	1.05	10.000	38.971	38.98	1.000	1.001	3.2486		0.158	3.25
17	17 OCDF	6.71e4	0.86	NO	0.771	10.000	41.681	41.68	1.000	1.000	50.730		0.205	50.7
18	18 13C-2,3,7,8-TCDD	4.68e5	0.76	NO	1.10	10.000	26.670	26.68	1.027	1.027	92.948	46.5	0.150	
19	19 13C-1,2,3,7,8-PeCDD	6.55e5	0.62	NO	0.864	10.000	31.051	31.11	1.196	1.198	166.19	83.1	0.168	
20	20 13C-1,2,3,4,7,8-HxCDD	4.48e5	1.30	NO	0.746	10.000	34.454	34.47	1.014	1.014	158.31	79.2	0.419	
21	21 13C-1,2,3,6,7,8-HxCDD	4.87e5	1.28	NO	0.847	10.000	34.573	34.59	1.017	1.018	151.81	75.9	0.369	
22	22 13C-1,2,3,7,8,9-HxCDD	5.36e5	1.26	NO	0.868	10.000	34.872	34.88	1.026	1.026	163.06	81.5	0.360	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.83e5	1.01	NO	0.664	10.000	38.220	38.28	1.125	1.126	152.10	76.1	0.409	
24	24 13C-OCDD	5.95e5	0.91	NO	0.561	10.000	41.166	41.36	1.211	1.217	280.01	70.0	0.451	
25	25 13C-2,3,7,8-TCDF	1.27e6	0.78	NO	1.09	10.000	26.059	26.06	1.003	1.003	170.83	85.4	0.0971	
26	26 13C-1,2,3,7,8-PeCDF	9.54e5	1.61	NO	0.809	10.000	29.781	29.91	1.147	1.152	172.94	86.5	0.397	
27	27 13C-2,3,4,7,8-PeCDF	8.05e5	1.65	NO	0.803	10.000	30.742	30.92	1.184	1.191	147.05	73.5	0.400	
28	28 13C-1,2,3,4,7,8-HxCDF	6.24e5	0.50	NO	1.01	10.000	33.526	33.51	0.987	0.986	163.00	81.5	0.398	
29	29 13C-1,2,3,6,7,8-HxCDF	6.12e5	0.52	NO	1.07	10.000	33.655	33.66	0.990	0.990	150.51	75.3	0.375	
30	30 13C-2,3,4,6,7,8-HxCDF	5.27e5	0.50	NO	0.910	10.000	34.345	34.36	1.011	1.011	153.05	76.5	0.443	
31	31 13C-1,2,3,7,8,9-HxCDF	4.89e5	0.50	NO	0.828	10.000	35.423	35.44	1.042	1.043	155.84	77.9	0.486	

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Name: 210604R3_13, Date: 05-Jun-2021, Time: 06:48:02, ID: 2105042-09 USMPDI-031SC-A-04-05-210504 18.38, Description: USMPDI-031SC-A-04-05-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.01e5	0.42	NO	0.661	10.000	37.030	37.07	1.090	1.091	160.15	80.1	0.458	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.41e5	0.43	NO	0.566	10.000	38.790	38.96	1.141	1.146	158.87	79.4	0.535	
34	34 13C-OCDF	6.86e5	0.88	NO	0.663	10.000	41.553	41.67	1.223	1.226	273.42	68.4	0.443	
35	35 37Cl-2,3,7,8-TCDD	4.89e5			2.07	10.000	26.870	26.73	1.035	1.029	51.877	64.8	0.0461	
36	36 13C-1,2,3,4-TCDD	9.12e5	0.79	NO	1.00	10.000	26.070	25.97	1.000	1.000	199.99	100	0.165	
37	37 13C-1,2,3,4-TCDF	1.36e6	0.78	NO	1.00	10.000	24.760	24.64	1.000	1.000	199.99	100	0.106	
38	38 13C-1,2,3,4,6,9-HxCDF	7.58e5	0.50	NO	1.00	10.000	34.040	33.99	1.000	1.000	199.99	100	0.403	
39	39 Total Tetra-Dioxins				0.929	10.000	24.620		0.000		14.194		0.105	15.5
40	40 Total Penta-Dioxins				0.826	10.000	29.960		0.000		14.063		0.0952	17.0
41	41 Total Hexa-Dioxins				0.877	10.000	33.635		0.000		109.14		0.188	109
42	42 Total Hepta-Dioxins				0.899	10.000	37.640		0.000		368.29		0.618	368
43	43 Total Tetra-Furans				0.747	10.000	23.610		0.000		34.911		0.0829	39.6
44	44 1st Func. Penta-Furans				0.877	10.000	27.620		0.000		19.975		0.0202	20.0
45	45 Total Penta-Furans				0.877	10.000	29.275		0.000		31.164		0.147	31.9
46	46 Total Hexa-Furans				0.973	10.000	33.555		0.000		65.900		0.120	66.7
47	47 Total Hepta-Furans				1.05	10.000	37.835		0.000		69.992		0.145	70.4

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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_13, Date: 05-Jun-2021, Time: 06:48:02, ID: 2105042-09 USMPDI-031SC-A-04-05-210504 18.38, Description: USMPDI-031SC-A-04-05-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.28	4.235e4	5.654e4	3.467e3	4.563e3	0.76	NO	8.030e3	3.6927	3.6927	0.105
2	Total Tetra-Dioxins	23.58	2.793e4	4.090e4	2.055e3	2.744e3	0.75	NO	4.799e3	2.2069	2.2069	0.105
3	Total Tetra-Dioxins	24.03	1.748e4	2.188e4	1.214e3	1.573e3	0.77	NO	2.787e3	1.2816	1.2816	0.105
4	Total Tetra-Dioxins	24.77	1.011e4	1.501e4	6.747e2	9.692e2	0.70	NO	1.644e3	0.75600	0.75600	0.105
5	Total Tetra-Dioxins	24.98	7.877e3	1.010e4	5.204e2	7.608e2	0.68	NO	1.281e3	0.58919	0.58919	0.105
6	Total Tetra-Dioxins	25.19	1.909e4	2.856e4	1.344e3	1.751e3	0.77	NO	3.095e3	1.4233	1.4233	0.105
7	Total Tetra-Dioxins	25.40	4.930e3	7.741e3	2.786e2	3.348e2	0.83	NO	6.134e2	0.28208	0.28208	0.105
8	Total Tetra-Dioxins	25.63	7.594e3	1.285e4	5.793e2	7.759e2	0.75	NO	1.355e3	0.62320	0.62320	0.105
9	Total Tetra-Dioxins	25.73	7.274e3	9.849e3	4.232e2	5.226e2	0.81	NO	9.458e2	0.43492	0.43492	0.105
10	Total Tetra-Dioxins	26.44	3.256e4	5.063e4	2.240e3	2.996e3	0.75	NO	5.236e3	2.4080	2.4080	0.105
11	2,3,7,8-TCDD	26.73	1.265e4	2.582e4	1.041e3	1.805e3	0.58	YES	2.847e3	0.00000	1.1009	0.105
12	Total Tetra-Dioxins	27.02	7.040e3	1.164e4	4.924e2	5.872e2	0.84	NO	1.080e3	0.49650	0.49650	0.105
13	Total Tetra-Dioxins	27.54	3.603e3	3.121e3	1.751e2	1.930e2	0.91	YES	0.000e0	0.00000	0.15712	0.105

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.95	8.239e4	1.305e5	5.626e3	9.417e3	0.60	NO	1.504e4	5.5654	5.5654	0.0952
2	Total Penta-Dioxins	29.42	2.188e4	3.580e4	1.256e3	2.039e3	0.62	NO	3.295e3	1.2191	1.2191	0.0952
3	Total Penta-Dioxins	29.91	4.474e4	7.809e4	2.534e3	4.097e3	0.62	NO	6.630e3	2.4530	2.4530	0.0952
4	Total Penta-Dioxins	30.08	3.704e4	6.818e4	2.834e3	4.658e3	0.61	NO	0.000e0	0.00000	2.7719	0.0952
5	Total Penta-Dioxins	30.35	3.946e4	5.784e4	2.012e3	3.671e3	0.55	NO	5.684e3	2.1029	2.1029	0.0952
6	Total Penta-Dioxins	30.67	5.222e3	7.850e3	2.081e2	4.442e2	0.47	YES	0.000e0	0.00000	0.19921	0.0952
7	1,2,3,7,8-PeCDD	31.12	3.867e4	5.957e4	2.087e3	3.025e3	0.69	NO	5.112e3	1.8913	1.8913	0.0952
8	Total Penta-Dioxins	31.20	8.122e3	1.265e4	3.411e2	6.336e2	0.54	NO	9.747e2	0.36062	0.36062	0.0952
9	Total Penta-Dioxins	31.47	1.115e4	2.165e4	4.615e2	8.113e2	0.57	NO	1.273e3	0.47087	0.47087	0.0952

Quantify Totals Report MassLynx 4.1 SCN815

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	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.74	6.892e5	5.510e5	3.242e4	2.606e4	1.24	NO	5.848e4	27.197	27.197	0.188
2	Total Hexa-Dioxins	33.38	6.601e4	4.902e4	3.160e3	2.315e3	1.37	NO	5.475e3	2.5464	2.5464	0.188
3	Total Hexa-Dioxins	33.68	1.075e6	8.852e5	6.854e4	5.522e4	1.24	NO	1.238e5	57.559	57.559	0.188
4	1,2,3,4,7,8-HxCDD	34.47	3.851e4	3.017e4	2.153e3	1.514e3	1.42	NO	3.667e3	1.6852	1.6852	0.178
5	1,2,3,6,7,8-HxCDD	34.61	2.847e5	2.226e5	1.586e4	1.279e4	1.24	NO	2.865e4	13.414	13.414	0.179
6	Total Hexa-Dioxins	34.79	1.644e4	1.398e4	9.652e2	8.096e2	1.19	NO	1.775e3	0.82539	0.82539	0.188
7	1,2,3,7,8,9-HxCDD	34.91	1.228e5	1.030e5	7.659e3	6.193e3	1.24	NO	1.385e4	5.9100	5.9100	0.189

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.41	3.087e6	3.026e6	1.772e5	1.720e5	1.03	NO	3.492e5	203.06	203.06	0.618
2	1,2,3,4,6,7,8-HpCDD	38.29	2.597e6	2.546e6	1.437e5	1.405e5	1.02	NO	2.842e5	165.22	165.22	0.618

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.17	1.580e4	1.426e4	1.237e3	1.318e3	0.94	YES	0.000e0	0.00000	0.49109	0.0829
2	Total Tetra-Furans	21.79	1.536e4	2.216e4	1.457e3	2.022e3	0.72	NO	3.479e3	0.73246	0.73246	0.0829
3	Total Tetra-Furans	22.53	1.003e5	1.369e5	8.006e3	1.075e4	0.74	NO	1.876e4	3.9488	3.9488	0.0829
4	Total Tetra-Furans	22.94	2.690e4	3.520e4	3.706e3	4.891e3	0.76	NO	8.597e3	1.8100	1.8100	0.0829
5	Total Tetra-Furans	23.34	7.475e4	9.882e4	6.853e3	9.095e3	0.75	NO	1.595e4	3.3575	3.3575	0.0829
6	Total Tetra-Furans	23.74	6.181e4	7.274e4	3.902e3	5.422e3	0.72	NO	9.324e3	1.9631	1.9631	0.0829
7	Total Tetra-Furans	23.86	1.450e4	1.674e4	1.117e3	1.342e3	0.83	NO	2.458e3	0.51758	0.51758	0.0829
8	Total Tetra-Furans	24.06	2.369e4	3.367e4	1.642e3	2.461e3	0.67	NO	4.103e3	0.86387	0.86387	0.0829
9	Total Tetra-Furans	24.42	7.054e3	1.000e4	4.801e2	6.298e2	0.76	NO	1.110e3	0.23365	0.23365	0.0829
10	Total Tetra-Furans	24.51	1.122e4	1.860e4	8.082e2	1.299e3	0.62	YES	0.000e0	0.00000	0.39115	0.0829
11	Total Tetra-Furans	24.69	2.752e4	4.426e4	9.399e2	1.346e3	0.70	NO	2.285e3	0.48117	0.48117	0.0829
12	Total Tetra-Furans	24.73	6.876e4	9.886e4	6.338e3	9.148e3	0.69	NO	0.000e0	0.00000	3.2603	0.0829
13	Total Tetra-Furans	25.16	2.155e5	3.141e5	1.409e4	1.983e4	0.71	NO	3.392e4	7.1412	7.1412	0.0829
14	Total Tetra-Furans	25.47	1.680e4	2.113e4	9.849e2	1.478e3	0.67	NO	2.463e3	0.51850	0.51850	0.0829
15	Total Tetra-Furans	25.56	7.061e3	1.122e4	3.939e2	6.236e2	0.63	YES	0.000e0	0.00000	0.19063	0.0829
16	Total Tetra-Furans	25.82	1.482e4	1.819e4	7.357e2	9.853e2	0.75	NO	1.721e3	0.36233	0.36233	0.0829
17	Total Tetra-Furans	25.97	6.964e4	9.630e4	4.406e3	5.851e3	0.75	NO	1.026e4	2.1594	2.1594	0.0829
18	2,3,7,8-TCDF	26.09	2.685e5	3.803e5	1.687e4	2.383e4	0.71	NO	4.070e4	8.5683	8.5683	0.0829
19	Total Tetra-Furans	26.36	1.861e4	2.954e4	1.856e3	2.607e3	0.71	NO	4.463e3	0.93962	0.93962	0.0829
20	Total Tetra-Furans	26.62	6.628e3	1.022e4	3.906e2	6.214e2	0.63	YES	0.000e0	0.00000	0.18902	0.0829
21	Total Tetra-Furans	27.45	2.190e4	2.729e4	1.422e3	1.822e3	0.78	NO	3.244e3	0.68296	0.68296	0.0829
22	Total Tetra-Furans	27.69	1.161e4	7.835e3	7.023e2	4.580e2	1.53	YES	0.000e0	0.00000	0.17068	0.0829
23	Total Tetra-Furans	27.86	2.502e4	2.627e4	1.316e3	1.679e3	0.78	NO	2.995e3	0.63057	0.63057	0.0829

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.45	8.325e5	5.060e5	4.743e4	2.960e4	1.60	NO	7.703e4	19.975	19.975	0.0202

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	3.053e4	1.606e4	2.136e3	1.246e3	1.71	NO	3.382e3	0.87709	0.87709	0.147
2	Total Penta-Furans	28.98	3.279e5	2.014e5	2.340e4	1.438e4	1.63	NO	3.778e4	9.7979	9.7979	0.147
3	Total Penta-Furans	29.34	7.458e3	4.157e3	2.875e2	2.279e2	1.26	YES	0.000e0	0.00000	0.12264	0.147
4	Total Penta-Furans	29.43	1.082e4	7.610e3	6.631e2	4.901e2	1.35	NO	1.153e3	0.29902	0.29902	0.147
5	Total Penta-Furans	29.58	9.380e4	5.431e4	5.981e3	3.954e3	1.51	NO	9.935e3	2.5763	2.5763	0.147
6	Total Penta-Furans	29.73	5.986e4	3.342e4	2.786e3	1.802e3	1.55	NO	4.588e3	1.1899	1.1899	0.147
7	1,2,3,7,8-PeCDF	29.93	4.469e5	2.773e5	2.167e4	1.344e4	1.61	NO	3.512e4	8.3944	8.3944	0.145
8	Total Penta-Furans	30.17	1.299e5	8.473e4	6.994e3	4.523e3	1.55	NO	1.152e4	2.9866	2.9866	0.147
9	Total Penta-Furans	30.76	1.798e4	8.422e3	8.190e2	4.549e2	1.80	YES	0.000e0	0.00000	0.30082	0.147
10	2,3,4,7,8-PeCDF	30.94	1.858e5	1.150e5	1.123e4	7.104e3	1.58	NO	1.834e4	4.7371	4.7371	0.137
11	Total Penta-Furans	31.75	2.322e4	1.139e4	1.175e3	5.000e2	2.35	YES	0.000e0	0.00000	0.33062	0.147
12	Total Penta-Furans	31.84	1.557e4	1.108e4	7.103e2	4.684e2	1.52	NO	1.179e3	0.30564	0.30564	0.147

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.21	1.760e5	1.501e5	8.288e3	6.813e3	1.22	NO	1.510e4	5.5133	5.5133	0.120
2	Total Hexa-Furans	32.38	4.792e5	3.694e5	2.255e4	1.793e4	1.26	NO	4.048e4	14.778	14.778	0.120
3	Total Hexa-Furans	32.81	1.350e4	8.784e3	5.905e2	4.005e2	1.47	YES	0.000e0	0.00000	0.32754	0.120
4	Total Hexa-Furans	33.04	7.090e5	5.658e5	3.633e4	2.962e4	1.23	NO	6.596e4	24.080	24.080	0.120
5	Total Hexa-Furans	33.40	1.114e4	1.060e4	5.306e2	5.387e2	0.98	YES	0.000e0	0.00000	0.34992	0.120
6	1,2,3,4,7,8-HxCDF	33.53	3.778e5	3.180e5	2.069e4	1.684e4	1.23	NO	3.753e4	13.061	13.061	0.107
7	1,2,3,6,7,8-HxCDF	33.68	1.286e5	1.001e5	6.504e3	5.488e3	1.19	NO	1.199e4	4.1850	4.1850	0.103
8	Total Hexa-Furans	34.02	5.020e3	4.611e3	2.411e2	2.608e2	0.92	YES	0.000e0	0.00000	0.15900	0.120
9	2,3,4,6,7,8-HxCDF	34.38	4.628e4	3.761e4	3.221e3	2.845e3	1.13	NO	6.067e3	2.3655	2.3655	0.136
10	1,2,3,7,8,9-HxCDF	35.47	3.006e4	2.811e4	9.709e2	8.069e2	1.20	NO	1.778e3	0.77362	0.77362	0.160
11	Total Hexa-Furans	35.49	3.917e4	3.194e4	1.781e3	1.348e3	1.32	NO	3.129e3	1.1425	1.1425	0.120

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.09	3.796e5	3.808e5	2.277e4	2.276e4	1.00	NO	4.553e4	21.664	21.664	0.135
2	Total Hepta-Furans	37.50	7.372e3	8.406e3	4.345e2	3.478e2	1.25	YES	0.000e0	0.00000	0.36513	0.145
3	Total Hepta-Furans	37.71	8.333e5	8.143e5	4.428e4	4.332e4	1.02	NO	8.759e4	45.080	45.080	0.145
4	1,2,3,4,7,8,9-HpCDF	38.98	5.028e4	4.544e4	2.991e3	2.792e3	1.07	NO	5.783e3	3.2486	3.2486	0.158

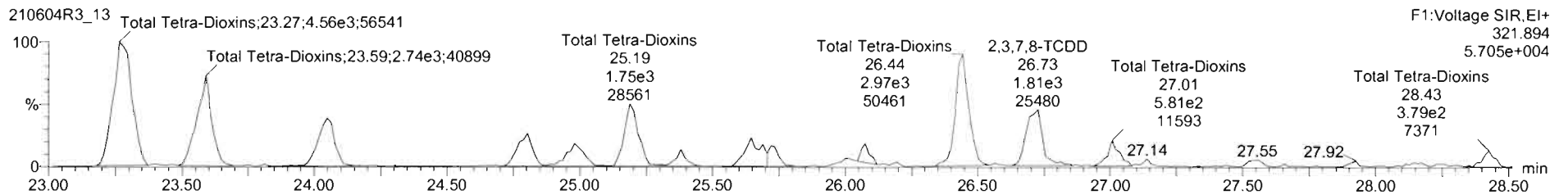
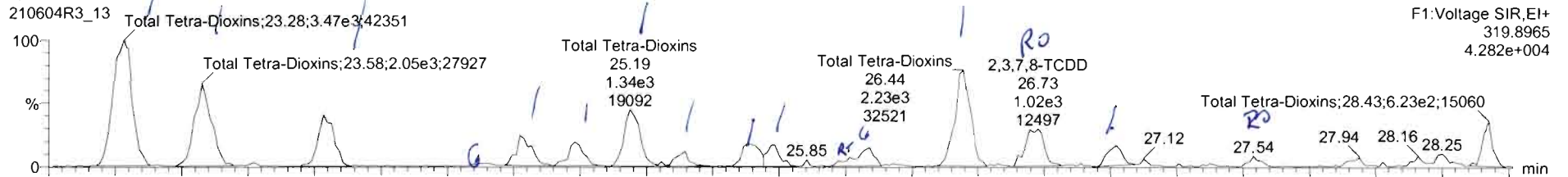
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Printed: Saturday, June 05, 2021 10:33:10 AM Pacific Daylight Time

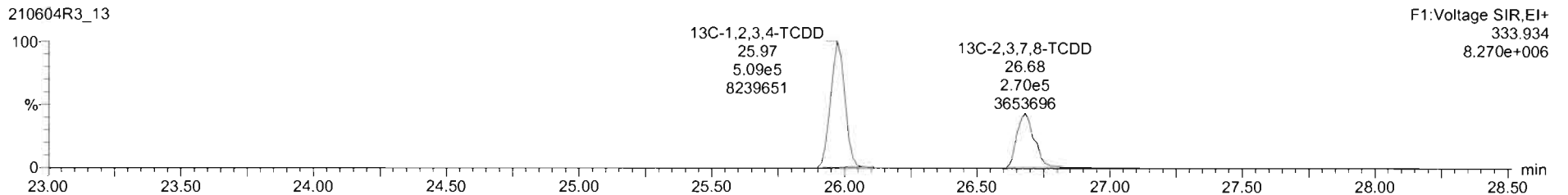
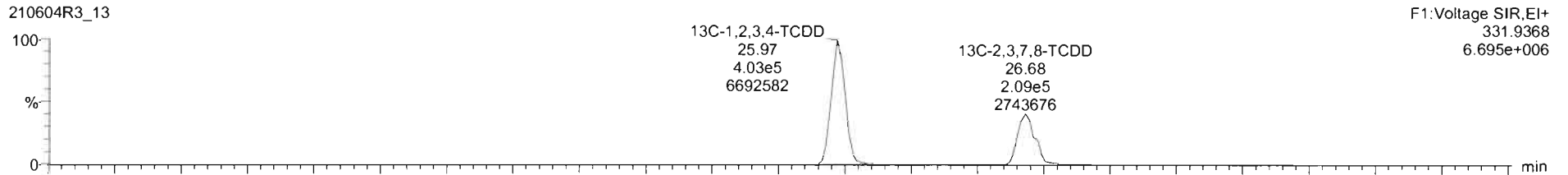
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Name: 210604R3_13, Date: 05-Jun-2021, Time: 06:48:02, ID: 2105042-09 USMPDI-031SC-A-04-05-210504 18.38, Description: USMPDI-031SC-A-04-05-210504

2,3,7,8-TCDD



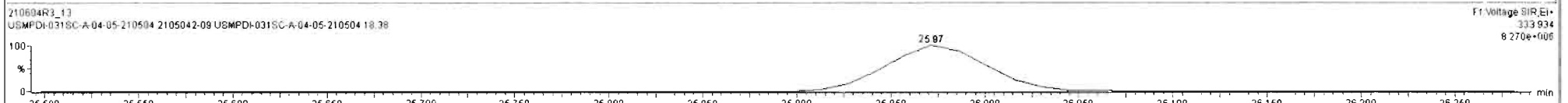
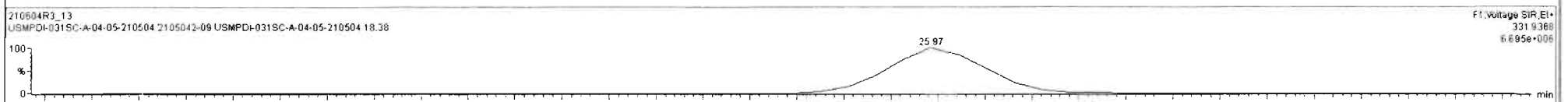
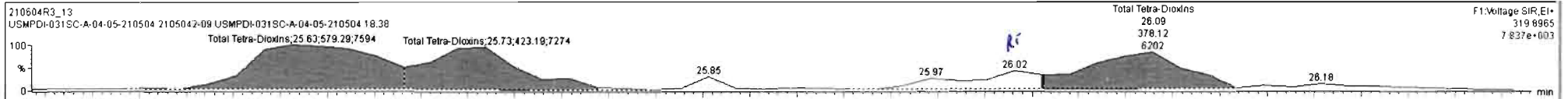
13C-2,3,7,8-TCDD

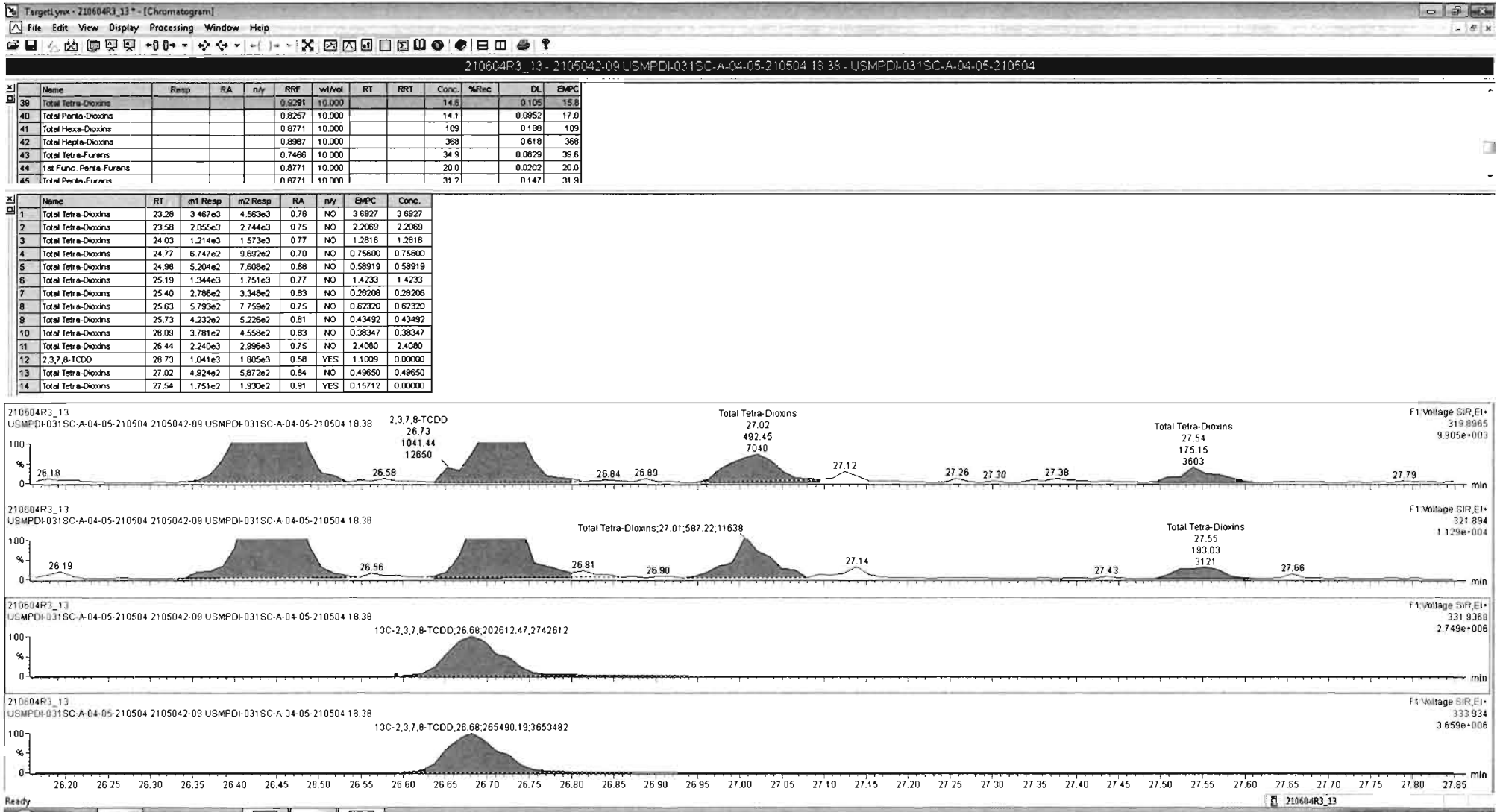


210604R3_13 - 2105042-09 USMPDI-031SC-A-04-05-210504 18.38 - USMPDI-031SC-A-04-05-210504

#	Name	Resp	RA	n/y	RRF	wf/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9291	10.000			14.6		0.105	15.8
40	Total Penta-Dioxins				0.8257	10.000			14.1		0.0952	17.0
41	Total Hexa-Dioxins				0.8771	10.000			109		0.188	109
42	Total Hepta-Dioxins				0.8987	10.000			368		0.618	368
43	Total Tetra-Furans				0.7468	10.000			34.8		0.0829	39.6
44	1st Func. Penta-Furans				0.8771	10.000			20.0		0.0202	20.0
45	Total Penta-Furans				0.8771	10.000			31.2		0.1471	31.8

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	23.28	3.467e3	4.563e3	0.76	NO	3.6927	3.6927
2	Total Tetra-Dioxins	23.58	2.055e3	2.744e3	0.75	NO	2.2069	2.2069
3	Total Tetra-Dioxins	24.03	1.214e3	1.573e3	0.77	NO	1.2816	1.2816
4	Total Tetra-Dioxins	24.77	6.747e2	9.692e2	0.70	NO	0.75600	0.75600
5	Total Tetra-Dioxins	24.98	5.204e2	7.608e2	0.68	NO	0.58919	0.58919
6	Total Tetra-Dioxins	25.19	1.344e3	1.751e3	0.77	NO	1.4233	1.4233
7	Total Tetra-Dioxins	25.40	2.786e2	3.348e2	0.83	NO	0.26208	0.26208
8	Total Tetra-Dioxins	25.63	5.793e2	7.759e2	0.75	NO	0.62320	0.62320
9	Total Tetra-Dioxins	25.73	4.232e2	5.226e2	0.81	NO	0.43492	0.43492
10	Total Tetra-Dioxins	26.09	3.781e2	4.558e2	0.83	NO	0.38347	0.38347
11	Total Tetra-Dioxins	26.44	2.232e3	2.996e3	0.74	NO	2.4042	2.4042
12	2,3,7,8-TCDD	26.73	1.036e3	1.805e3	0.57	YES	1.0955	0.00000
13	Total Tetra-Dioxins	27.02	4.924e2	5.872e2	0.84	NO	0.43650	0.43650





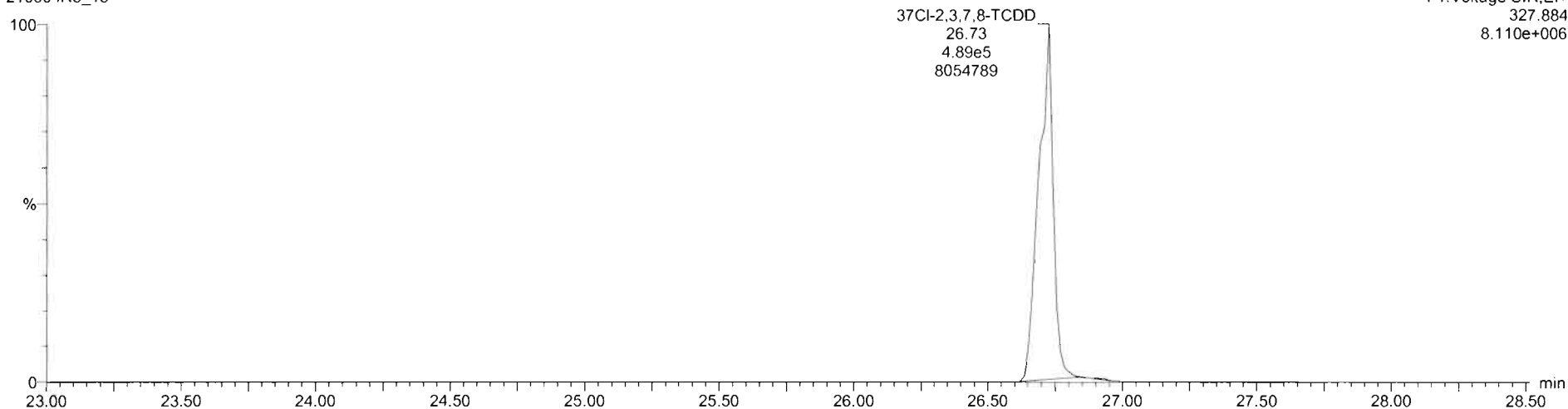
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Name: 210604R3_13, Date: 05-Jun-2021, Time: 06:48:02, ID: 2105042-09 USMPDI-031SC-A-04-05-210504 18.38, Description: USMPDI-031SC-A-04-05-210504

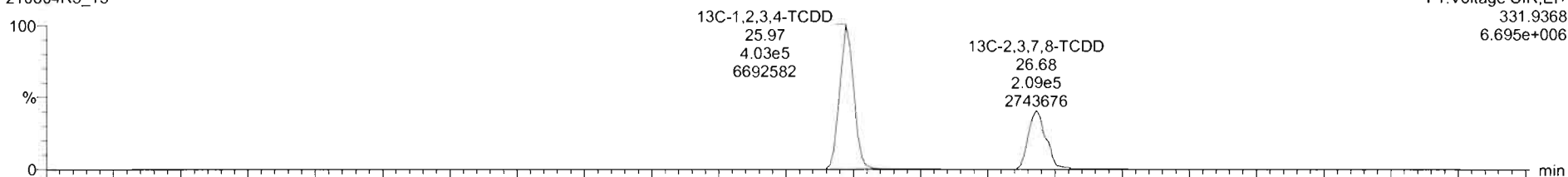
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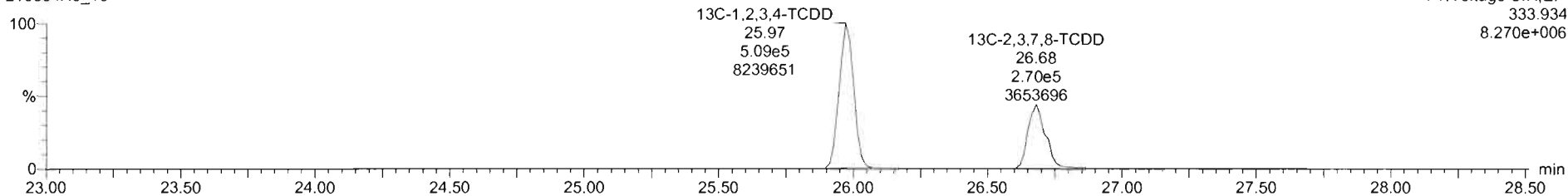


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210604R3_13



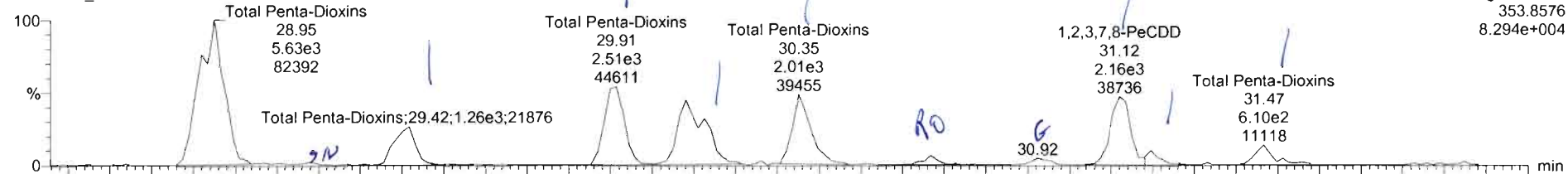
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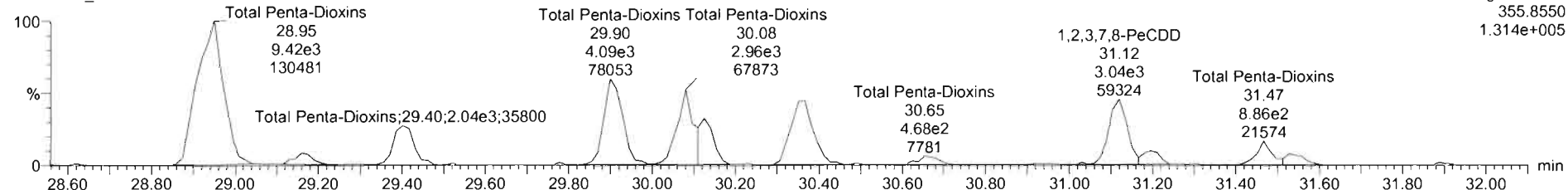
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1,2,3,7,8-PeCDD

210604R3_13

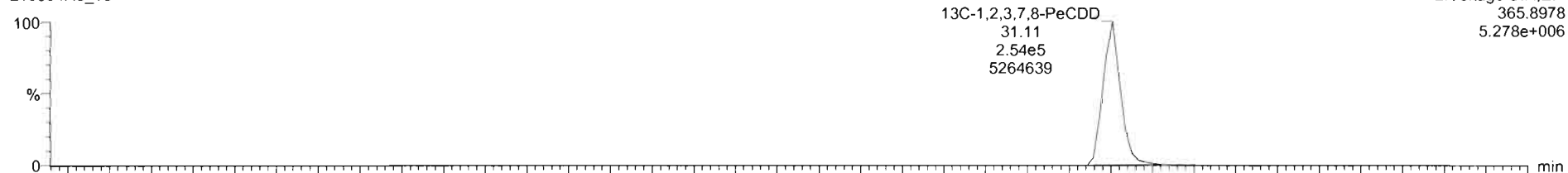


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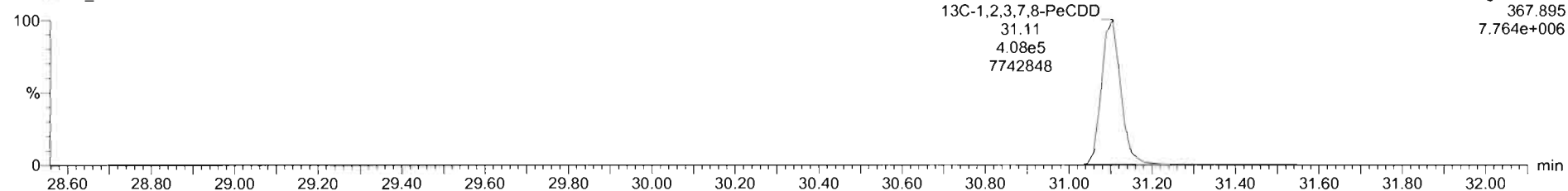


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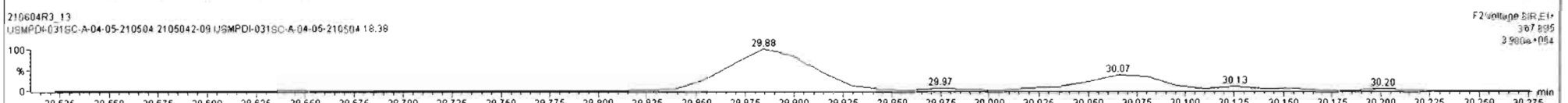
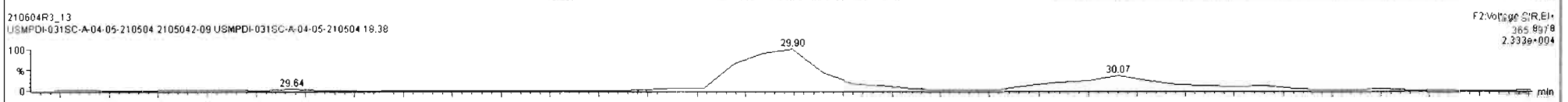
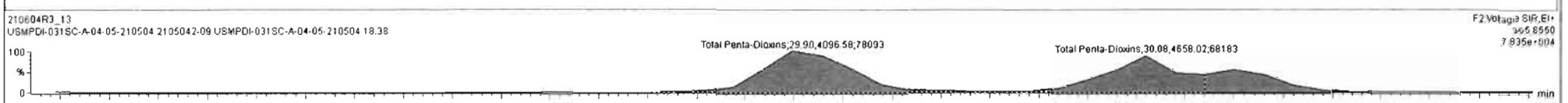
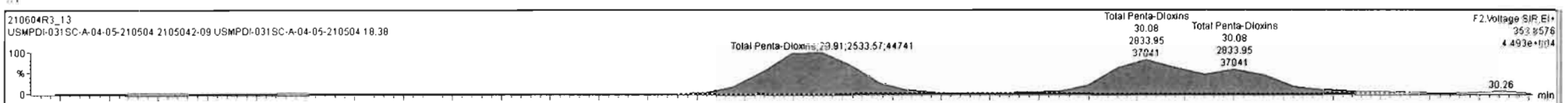


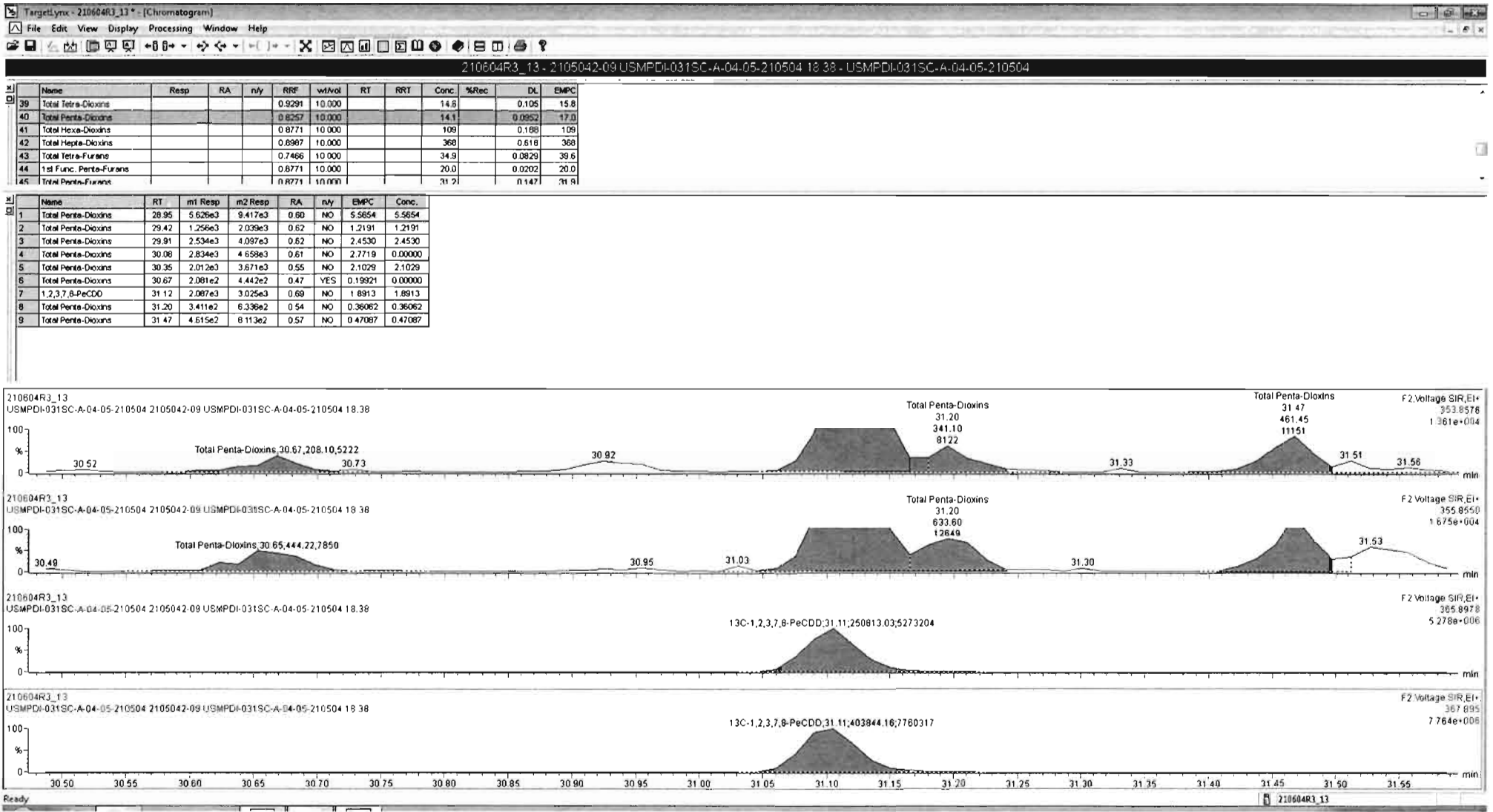
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#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9291	10.000			14.6		0.105	15.8
40	Total Penta-Dioxins				0.6257	10.000			14.1		0.0952	17.0
41	Total Hexa-Dioxins				0.8771	10.000			109		0.198	109
42	Total Hepta-Dioxins				0.8987	10.000			368		0.618	368
43	Total Tetra-Furans				0.7466	10.000			34.9		0.0829	39.6
44	1st Func. Penta-Furans				0.8771	10.000			20.0		0.0202	20.0
45	Total Penta-Furans				0.8771	10.000			31.2		0.1471	31.9

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Dioxins	29.95	5.626e3	9.417e3	0.60	NO	5.5654	5.5654
2	Total Penta-Dioxins	29.42	1.256e3	2.039e3	0.62	NO	1.2191	1.2191
3	Total Penta-Dioxins	29.91	2.534e3	4.097e3	0.62	NO	2.4530	2.4530
4	Total Penta-Dioxins	30.08	2.834e3	4.659e3	0.61	NO	2.7719	0.00000
5	Total Penta-Dioxins	30.35	2.012e3	3.671e3	0.55	NO	2.1029	2.1029
6	Total Penta-Dioxins	30.67	2.081e2	4.442e2	0.47	YES	0.19921	0.00000
7	1,2,3,7,8-PeCDD	31.12	2.007e3	3.025e3	0.69	NO	1.8913	1.8913
8	Total Penta-Dioxins	31.20	3.411e2	6.336e2	0.54	NO	0.36062	0.36062
9	Total Penta-Dioxins	31.47	4.615e2	8.113e2	0.57	NO	0.47087	0.47087





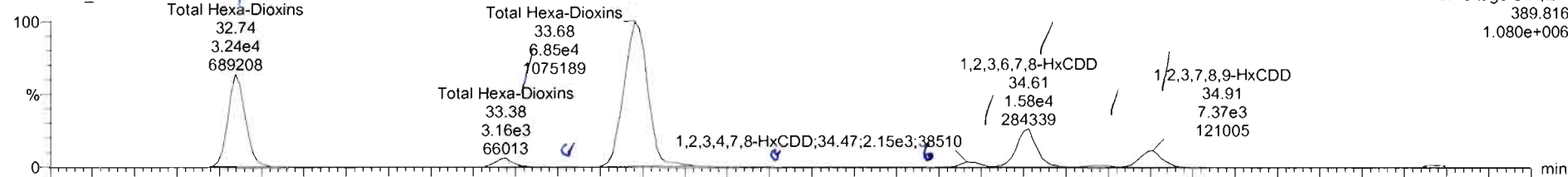
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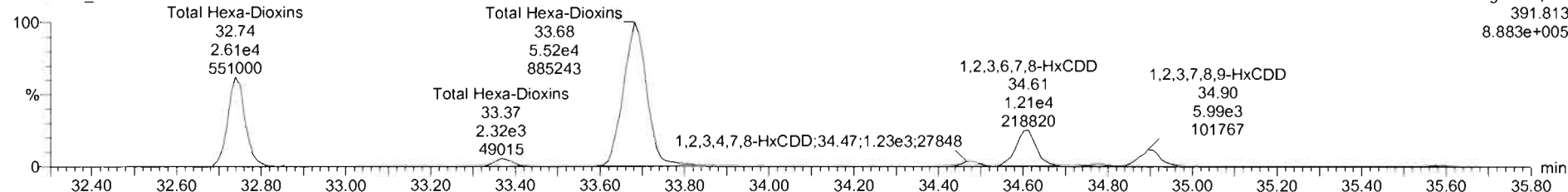
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1,2,3,4,7,8-HxCDD

210604R3_13

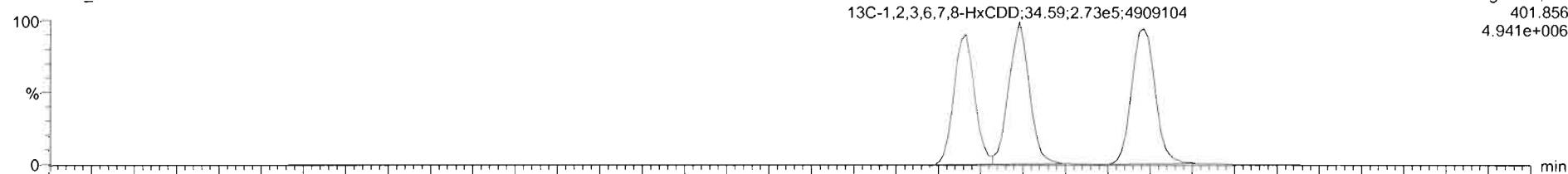


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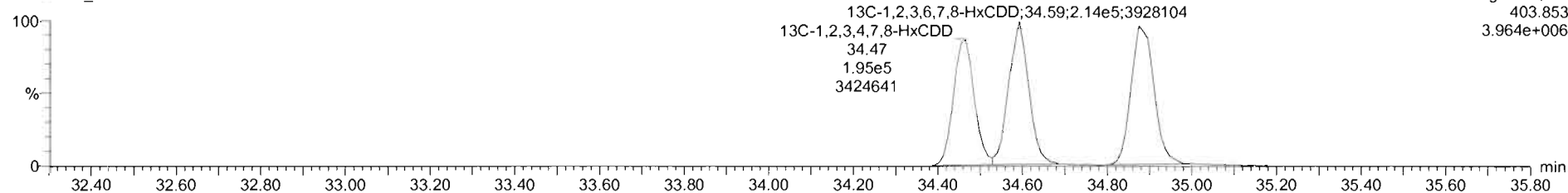


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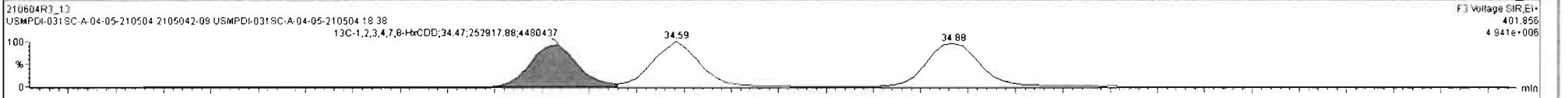
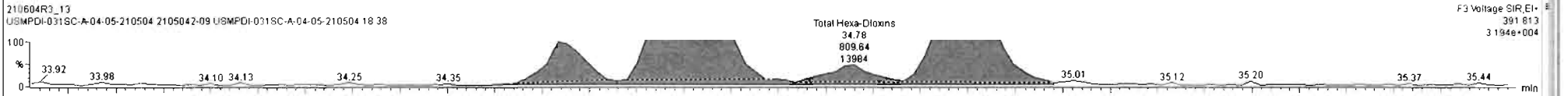
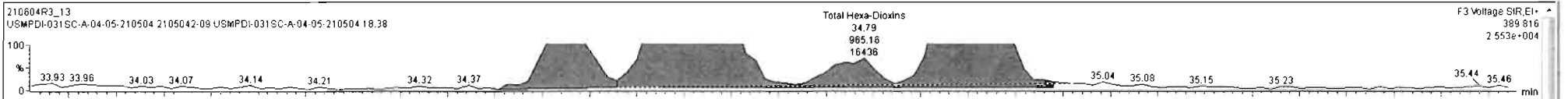


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Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.000			14.6	0.105	15.8	
40 Total Penta-Dioxins				0.8257	10.000			14.1	0.0952	17.0	
41 Total Hexa-Dioxins				0.8771	10.000			100	0.188	109	
42 Total Hepta-Dioxins				0.6987	10.000			368	0.618	368	
43 Total Tetra-Furans				0.7466	10.000			34.9	0.0829	39.6	
44 1st Func. Penta-Furans				0.8771	10.000			20.0	0.0202	20.0	
45 Total Penta-Furans				0.8771	10.000			31.71	0.1471	31.8	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.74	3.243e4	2.606e4	1.24	NO	27.197	27.197
2 Total Hexa-Dioxins	33.38	3.180e3	2.315e3	1.37	NO	2.5464	2.5464
3 Total Hexa-Dioxins	33.68	6.854e4	5.522e4	1.24	NO	57.559	57.559
4 1,2,3,4,7,8-HxCDD	34.47	2.153e3	1.514e3	1.42	NO	1.6852	1.6852
5 1,2,3,6,7,8-HxCDD	34.61	1.586e4	1.279e4	1.24	NO	13.414	13.414
6 Total Hexa-Dioxins	34.79	9.652e2	8.096e2	1.19	NO	0.82539	0.82539
7 1,2,3,7,8-HxCDD	34.91	7.659e3	6.193e3	1.24	NO	5.9100	5.9100



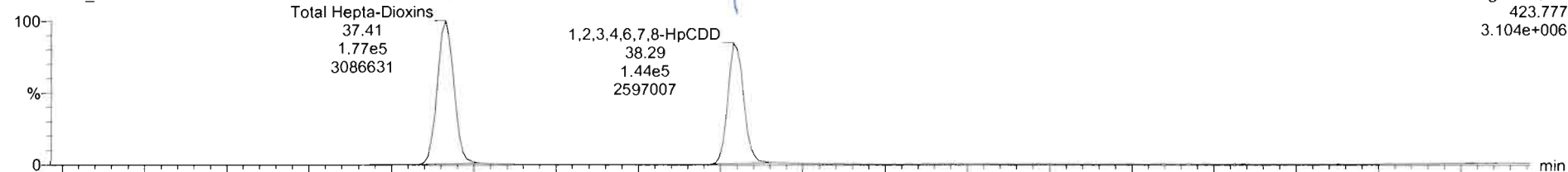
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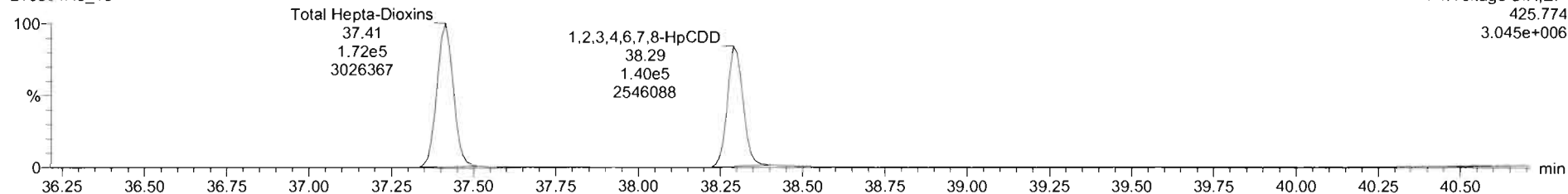
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1,2,3,4,6,7,8-HpCDD

210604R3_13

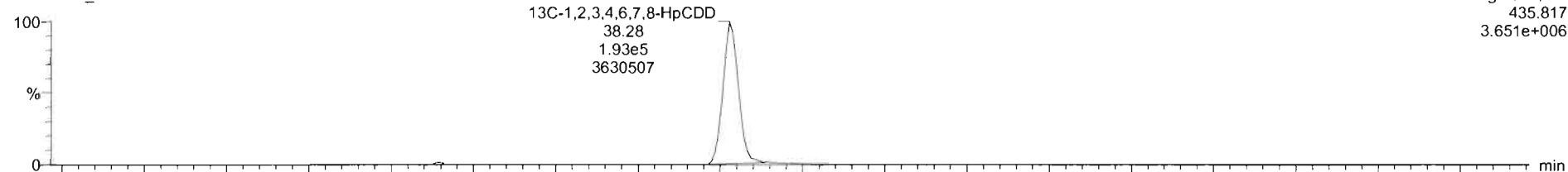


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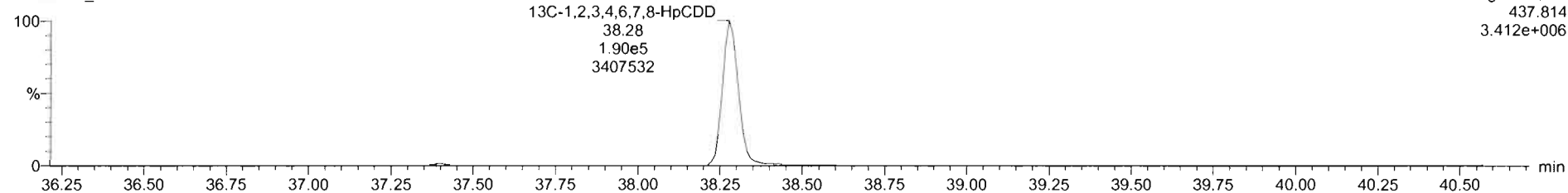


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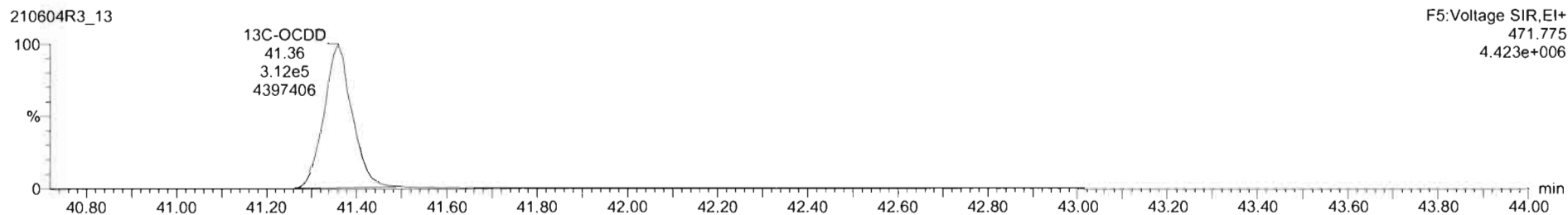
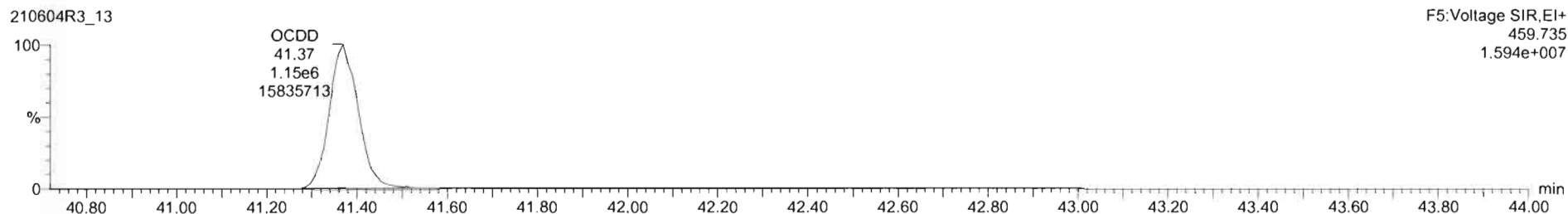
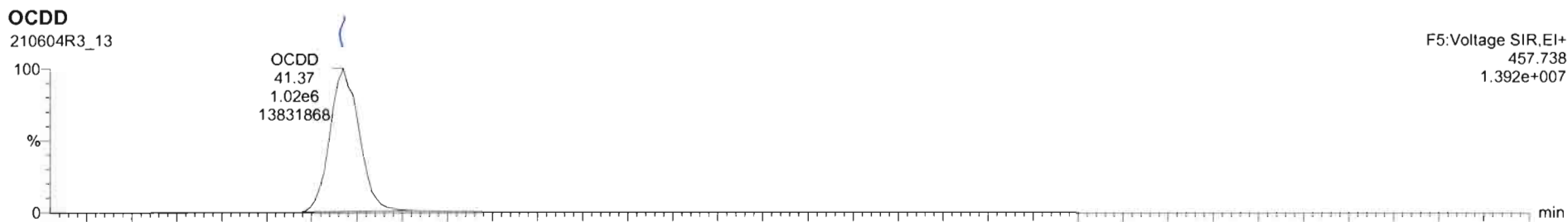
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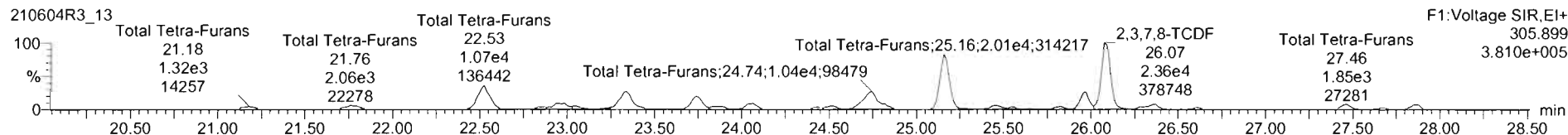
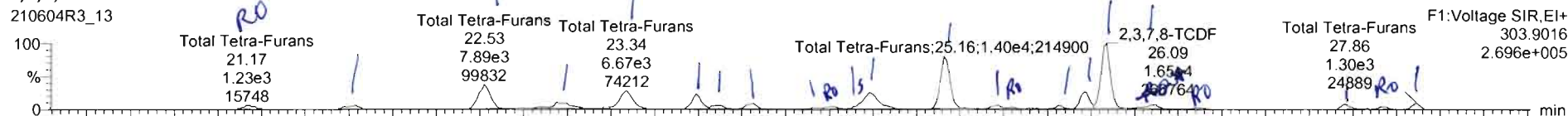


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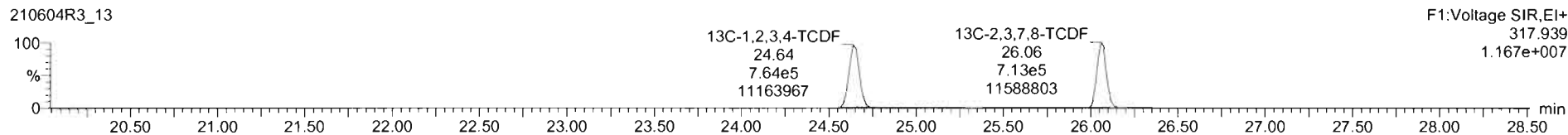
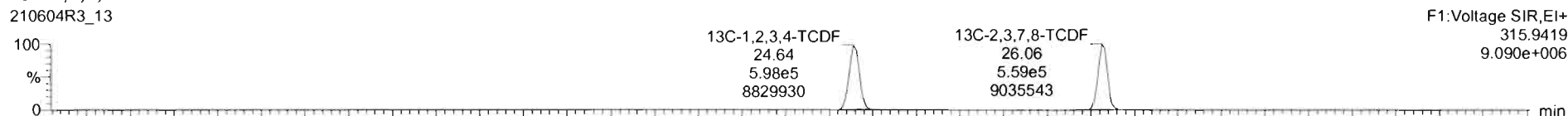
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July 21 2021
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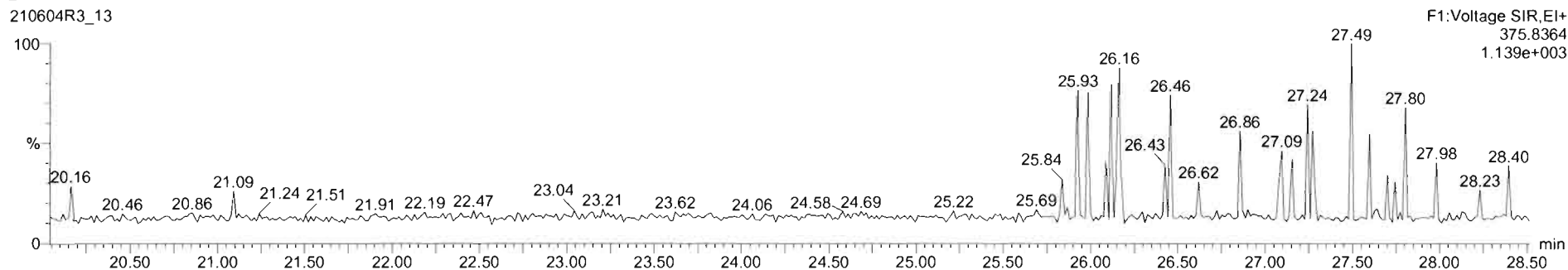
2,3,7,8-TCDF

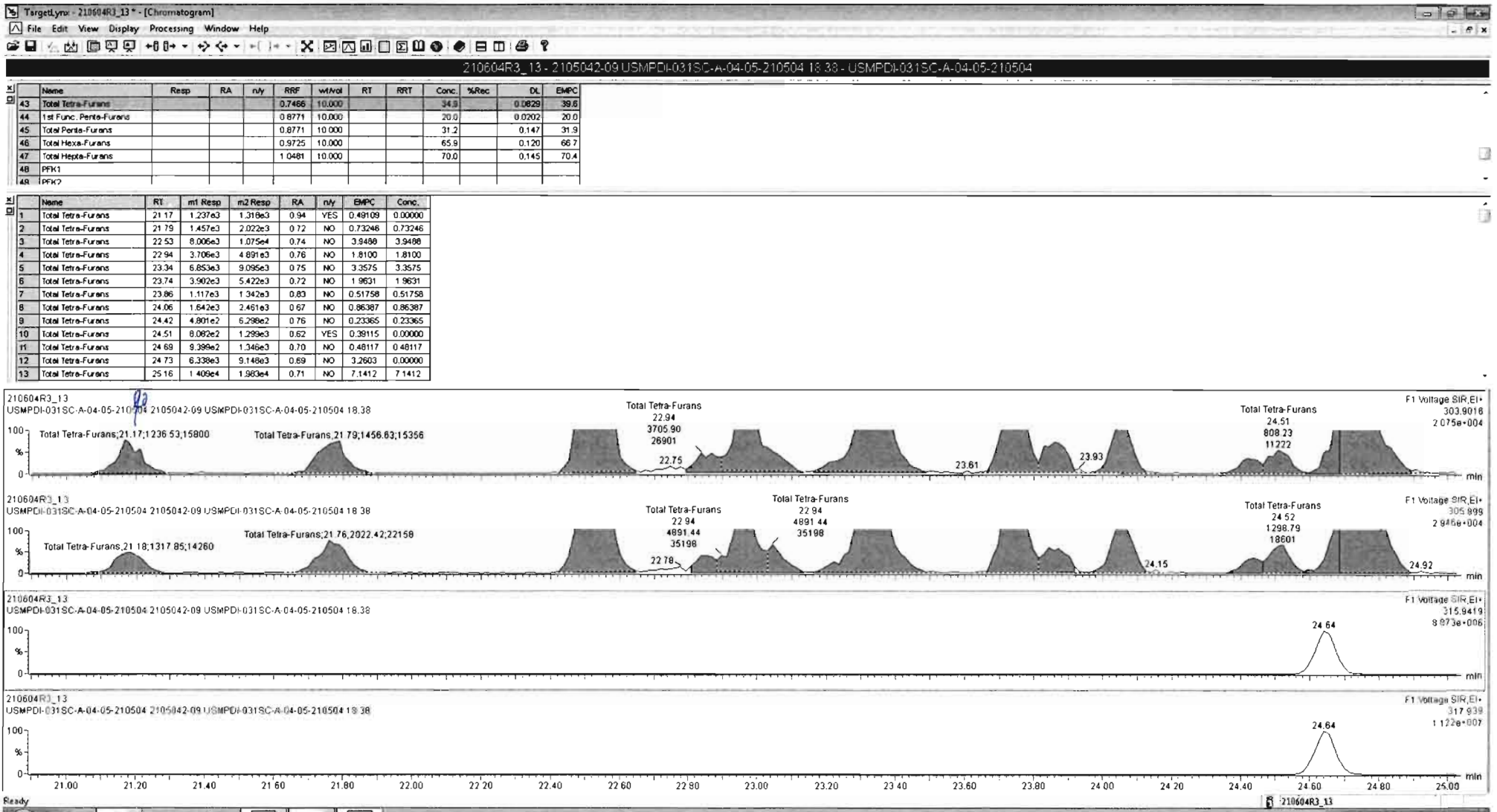


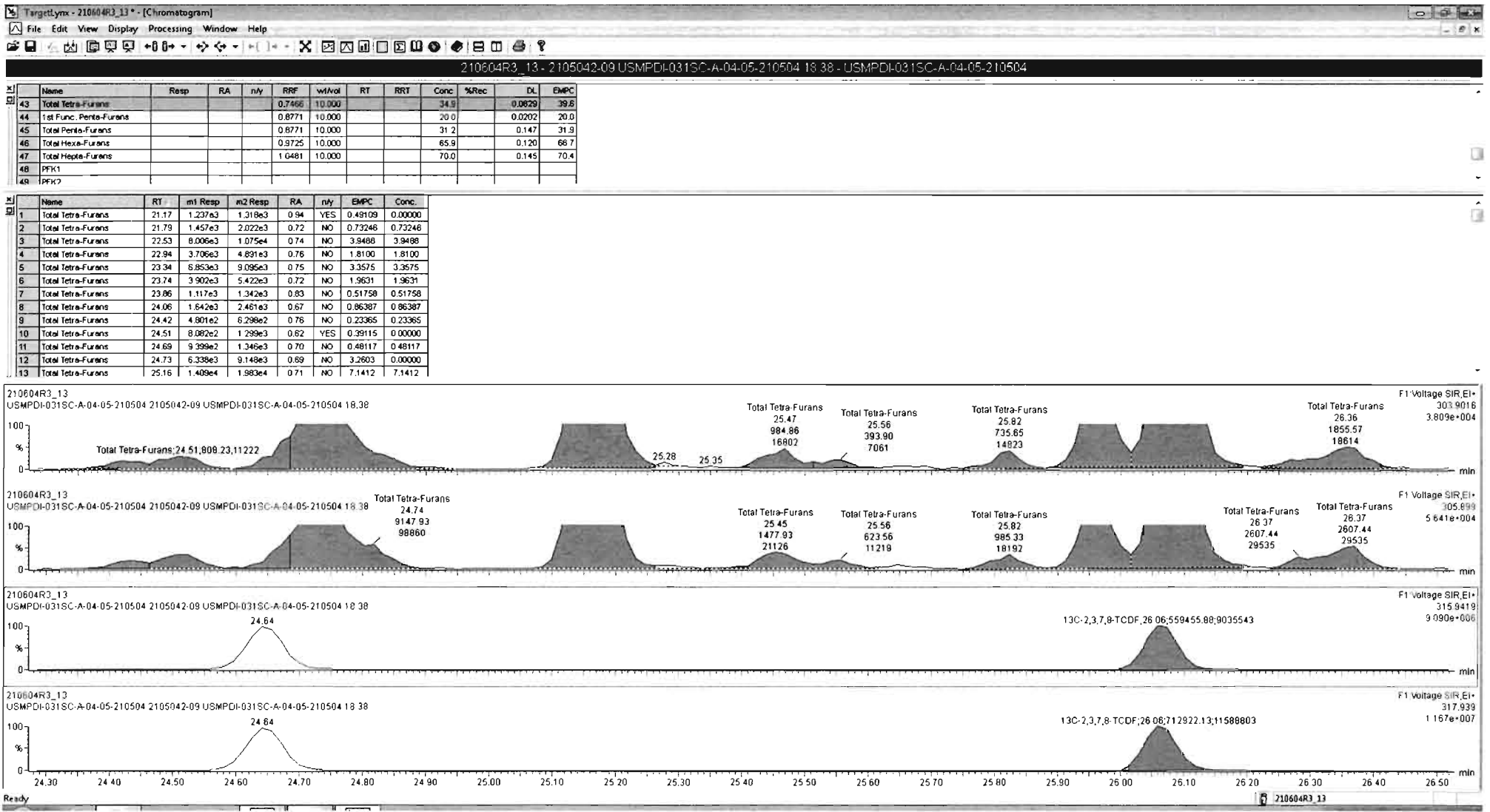
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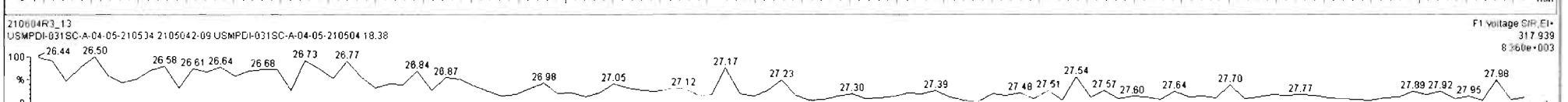
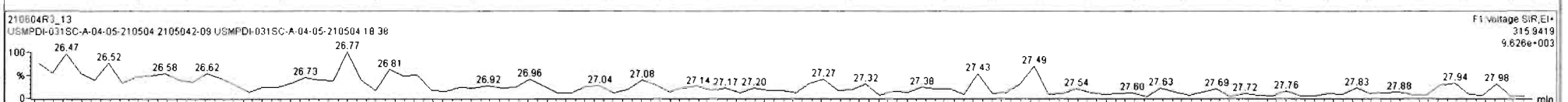
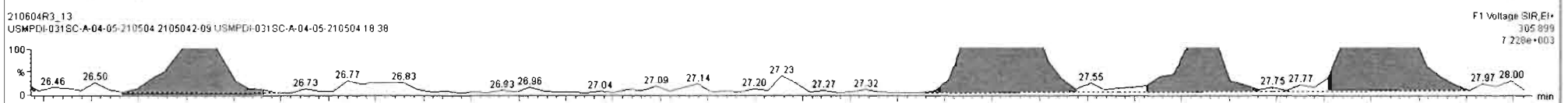
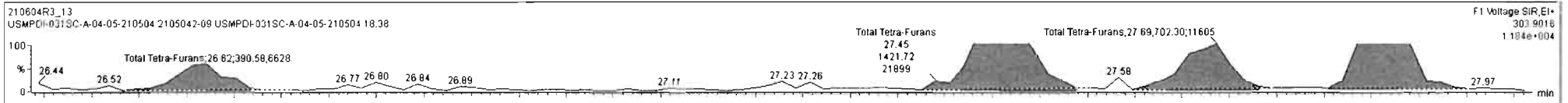






Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.000			34.9	0.0828	39.6	
44 1st Func. Penta-Furans				0.8771	10.000			20.0	0.0202	20.0	
45 Total Penta-Furans				0.8771	10.000			31.2	0.147	31.9	
46 Total Hexa-Furans				0.9725	10.000			65.9	0.120	66.7	
47 Total Hepta-Furans				1.0481	10.000			70.0	0.145	70.4	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	21.17	1.237e3	1.318e3	0.94	YES	0.49109	0.00000
2 Total Tetra-Furans	21.79	1.457e3	2.022e3	0.72	NO	0.73246	0.73246
3 Total Tetra-Furans	22.53	8.006e3	1.075e4	0.74	NO	3.9488	3.9488
4 Total Tetra-Furans	22.94	3.706e3	4.891e3	0.76	NO	1.8100	1.8100
5 Total Tetra-Furans	23.34	6.853e3	9.095e3	0.75	NO	3.3575	3.3575
6 Total Tetra-Furans	23.74	3.902e3	5.422e3	0.72	NO	1.9631	1.9631
7 Total Tetra-Furans	23.86	1.117e3	1.342e3	0.83	NO	0.51758	0.51758
8 Total Tetra-Furane	24.06	1.642e3	2.461e3	0.67	NO	0.86387	0.86387
9 Total Tetra-Furans	24.42	4.801e2	6.299e2	0.76	NO	0.23365	0.23365
10 Total Tetra-Furans	24.51	8.082e2	1.299e3	0.62	YES	0.39115	0.00000
11 Total Tetra-Furans	24.68	9.399e2	1.346e3	0.70	NO	0.48117	0.48117
12 Total Tetra-Furans	24.73	6.338e3	9.148e3	0.69	NO	3.2603	0.00000
13 Total Tetra-Furans	25.16	1.409e4	1.983e4	0.71	NO	7.1412	7.1412



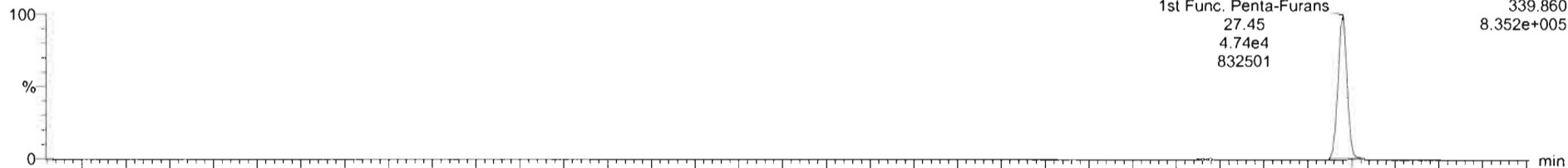
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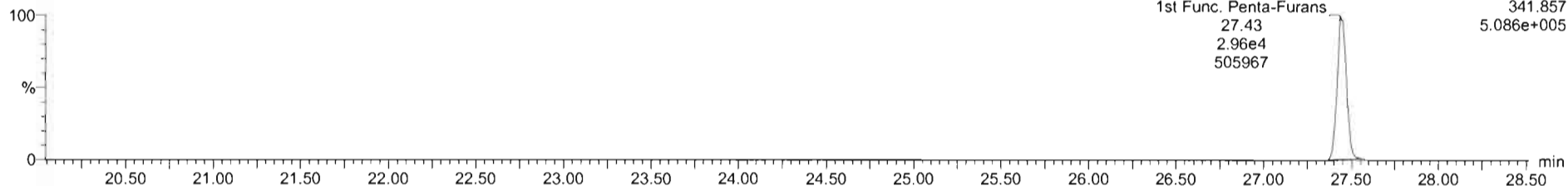
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1st Func. Penta-Furans

210604R3_13

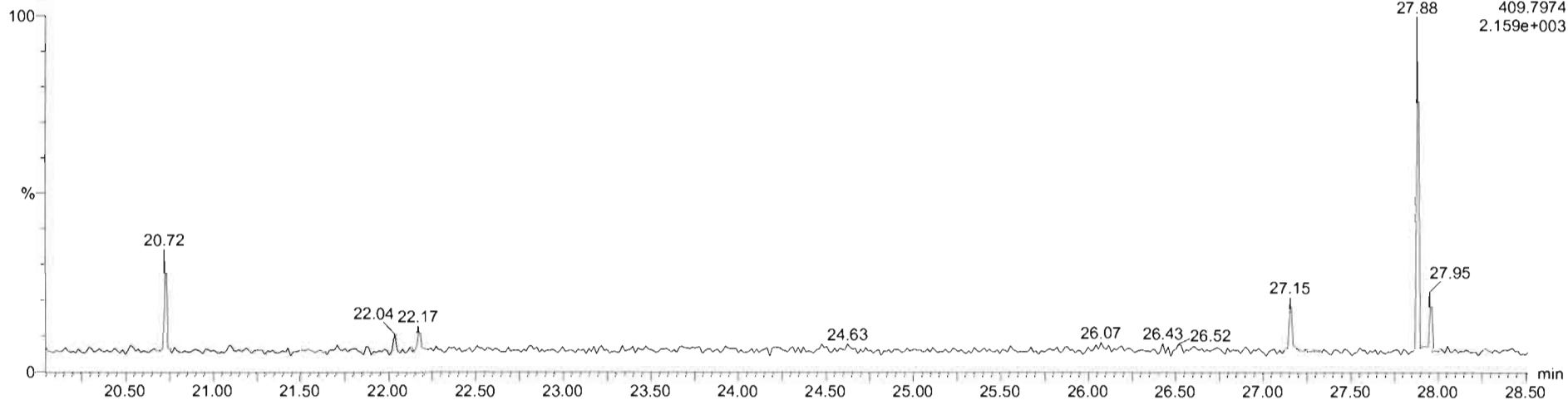


210604R3_13



DPE6

210604R3_13



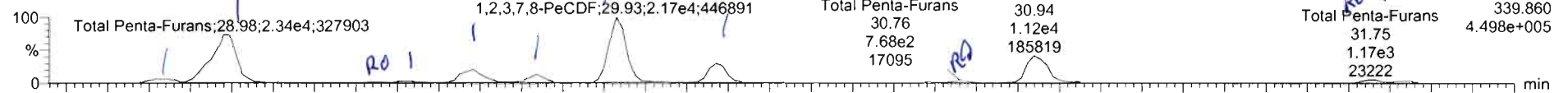
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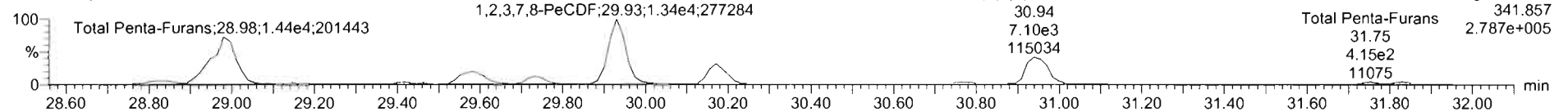
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1,2,3,7,8-PeCDF

210604R3_13

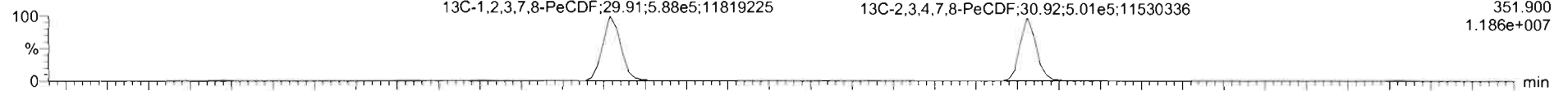


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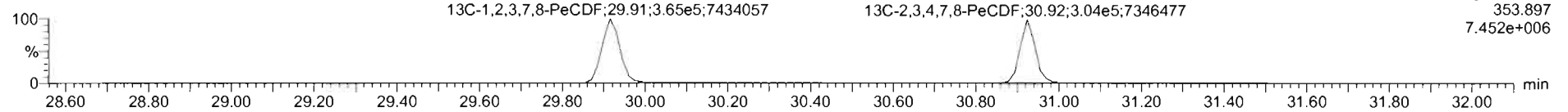


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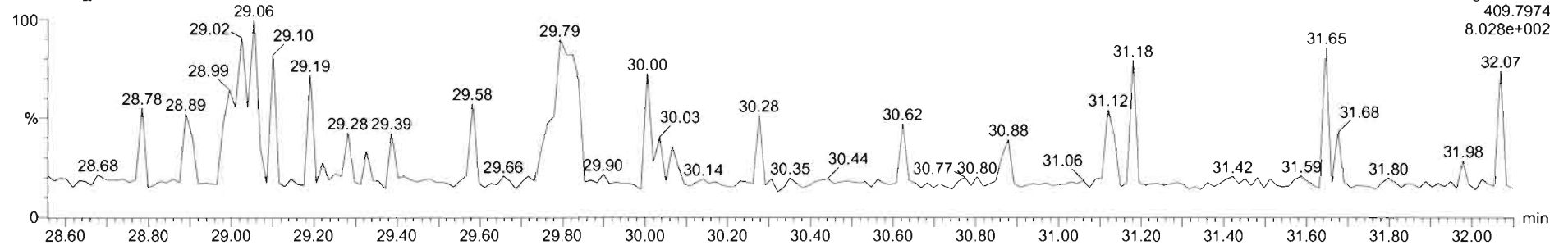


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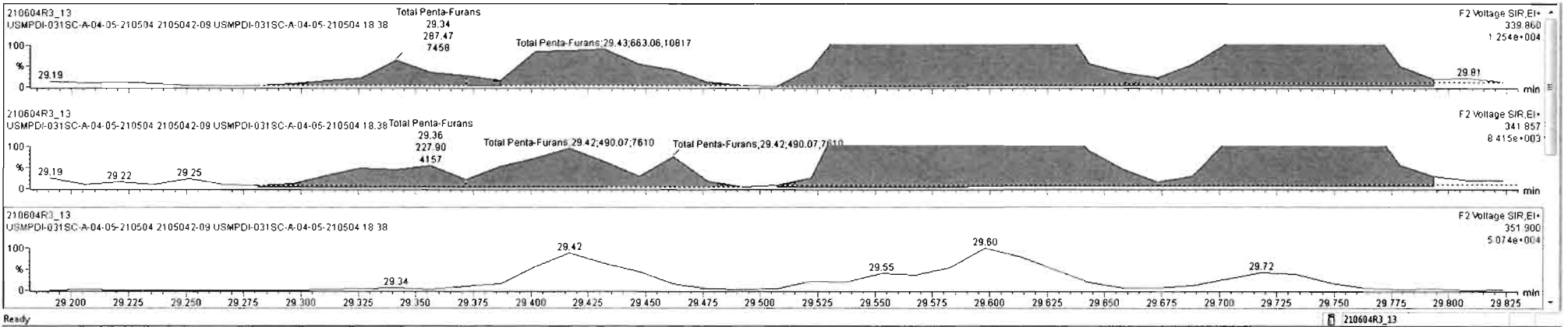
DPE2

210604R3_13



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.000			34.9		0.0829	39.6
44 1st Func. Penta-Furans				0.8771	10.000			20.0		0.0202	20.0
45 Total Penta-Furans				0.8771	10.000			31.2		0.147	31.9
46 Total Hexa-Furans				0.9725	10.000			65.9		0.120	66.7
47 Total Hepta-Furans				1.0481	10.000			70.0		0.145	70.4

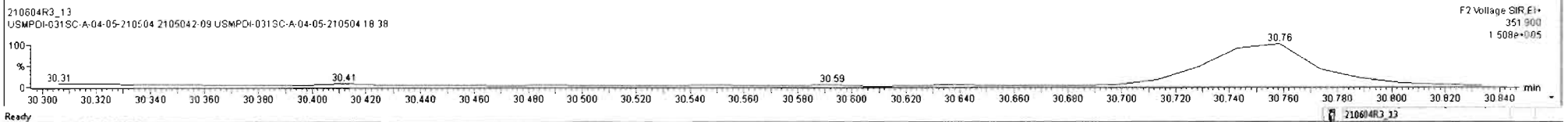
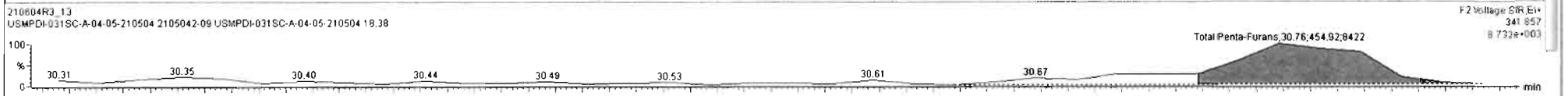
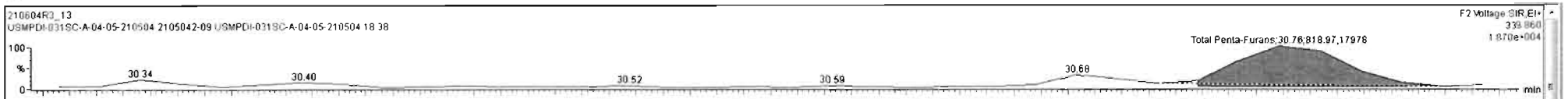
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.81	2.136e3	1.246e3	1.71	NO	0.87709	0.87709
2 Total Penta-Furans	28.96	2.340e4	1.438e4	1.63	NO	9.7979	9.7979
3 Total Penta-Furans	29.34	2.875e2	2.279e2	1.26	YES	0.12264	0.00000
4 Total Penta-Furans	29.43	6.631e2	4.901e2	1.35	NO	0.29902	0.29902
5 Total Penta-Furans	29.58	5.981e3	3.954e3	1.51	NO	2.5763	2.5763
6 Total Penta-Furans	29.73	2.786e3	1.802e3	1.55	NO	1.1899	1.1899
7 1,2,3,7,8-PeCDF	29.93	2.187e4	1.344e4	1.81	NO	8.3944	8.3944
8 Total Penta-Furans	30.17	6.994e3	4.523e3	1.55	NO	2.9866	2.9866
9 Total Penta-Furans	30.76	8.190e2	4.549e2	1.90	YES	0.30062	0.00000
10 2,3,4,7,8-PeCDF	30.94	1.123e4	7.104e3	1.58	NO	4.7371	4.7371
11 Total Penta-Furans	31.75	1.175e3	5.000e2	2.35	YES	0.33062	0.00000
12 Total Penta-Furans	31.84	7.103e2	4.684e2	1.52	NO	0.30564	0.30564



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#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.000			34.9		0.0829	39.6
44	1st Func. Penta-Furans				0.8771	10.000			20.0		0.0202	20.0
45	Total Penta-Furans				0.8771	10.000			31.2		0.147	31.9
46	Total Hexa-Furans				0.9725	10.000			65.9		0.120	66.7
47	Total Hepta-Furans				1.0481	10.000			70.0		0.145	70.4

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.81	2.136e3	1.246e3	1.71	NO	0.87709	0.87709
2	Total Penta-Furans	28.98	2.340e4	1.439e4	1.63	NO	9.7979	9.7979
3	Total Penta-Furans	29.34	2.875e2	2.279e2	1.26	YES	0.12264	0.00000
4	Total Penta-Furans	29.43	6.631e2	4.901e2	1.35	NO	0.29902	0.29902
5	Total Penta-Furans	29.58	5.981e3	3.954e3	1.51	NO	2.5763	2.5763
6	Total Penta-Furans	29.73	2.786e3	1.802e3	1.55	NO	1.1899	1.1899
7	1,2,3,7,8-PeCDF	29.93	2.167e4	1.344e4	1.61	NO	8.3944	8.3944
8	Total Penta-Furans	30.17	6.994e3	4.523e3	1.55	NO	2.9866	2.9866
9	Total Penta-Furans	30.76	8.190e2	4.549e2	1.80	YES	0.30062	0.00000
10	2,3,4,7,8-PeCDF	30.94	1.123e4	7.104e3	1.58	NO	4.7371	4.7371
11	Total Penta-Furans	31.75	1.175e3	5.000e2	2.35	YES	0.33062	0.00000
12	Total Penta-Furans	31.84	7.103e2	4.684e2	1.52	NO	0.30564	0.30564



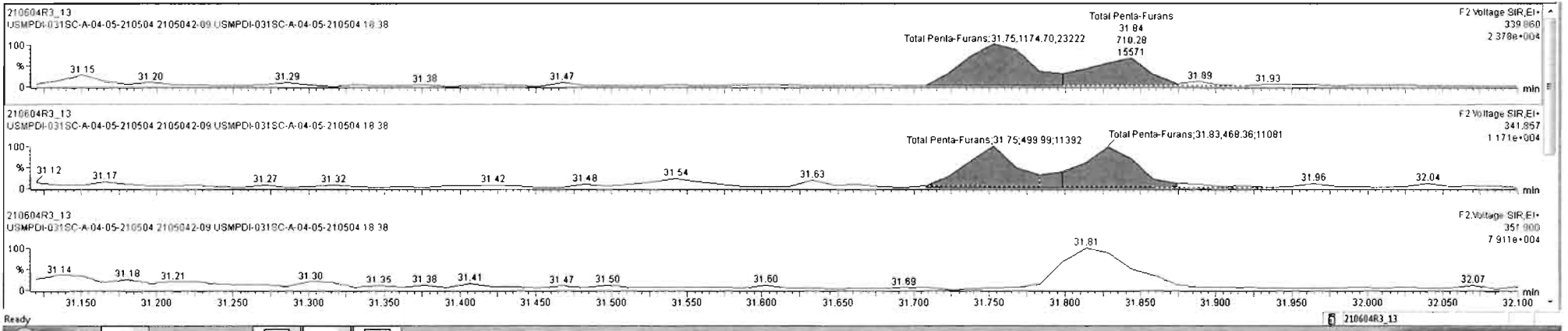
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210604R3_13 - 2105042-09 USMPDI-031SC-A-04-05-210504 18:38 - USMPDI-031SC-A-04-05-210504

#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.000			34.9		0.0829	39.6
44	1st Func. Penta-Furans				0.8771	10.000			20.0		0.0202	20.0
45	Total Penta-Furans				0.8771	10.000			31.2		0.147	31.8
46	Total Hexa-Furans				0.9725	10.000			65.9		0.120	66.7
47	Total Hepta-Furans				1.0481	10.000			70.0		0.145	70.4

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.81	2.136e3	1.246e3	1.71	NO	0.87709	0.87709
2	Total Penta-Furans	28.86	2.340e4	1.438e4	1.63	NO	9.7979	9.7979
3	Total Penta-Furans	29.34	2.875e2	2.279e2	1.26	YES	0.12264	0.00000
4	Total Penta-Furans	29.43	6.631e2	4.901e2	1.35	NO	0.29902	0.29902
5	Total Penta-Furans	29.58	5.881e3	3.954e3	1.51	NO	2.5763	2.5763
6	Total Penta-Furans	29.73	2.786e3	1.802e3	1.55	NO	1.1899	1.1899
7	1,2,3,7,8-PeCDF	29.93	2.167e4	1.344e4	1.61	NO	8.3944	8.3944
8	Total Penta-Furans	30.17	6.894e3	4.523e3	1.55	NO	2.9866	2.9866
9	Total Penta-Furans	30.76	8.190e2	4.549e2	1.80	YES	0.30062	0.00000
10	2,3,4,7,8-PeCDF	30.94	1.123e4	7.104e3	1.58	NO	4.7371	4.7371
11	Total Penta-Furans	31.75	1.175e3	5.000e2	2.35	YES	0.33062	0.00000
12	Total Penta-Furans	31.84	7.103e2	4.684e2	1.52	NO	0.30564	0.30564



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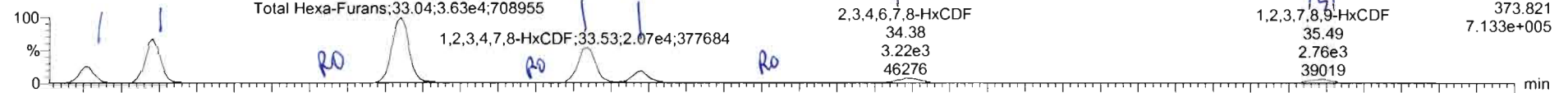
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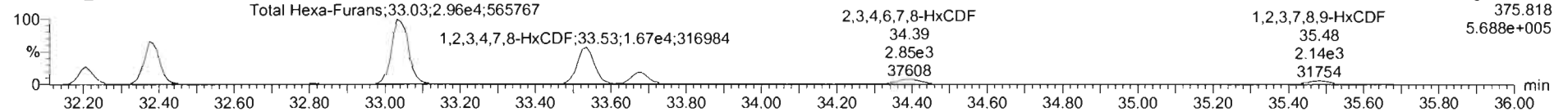
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210604R3_13

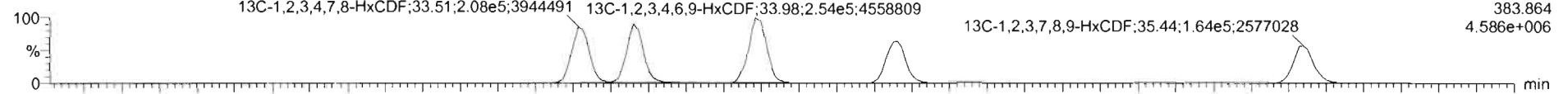


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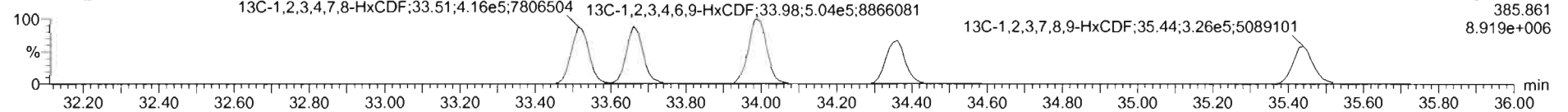


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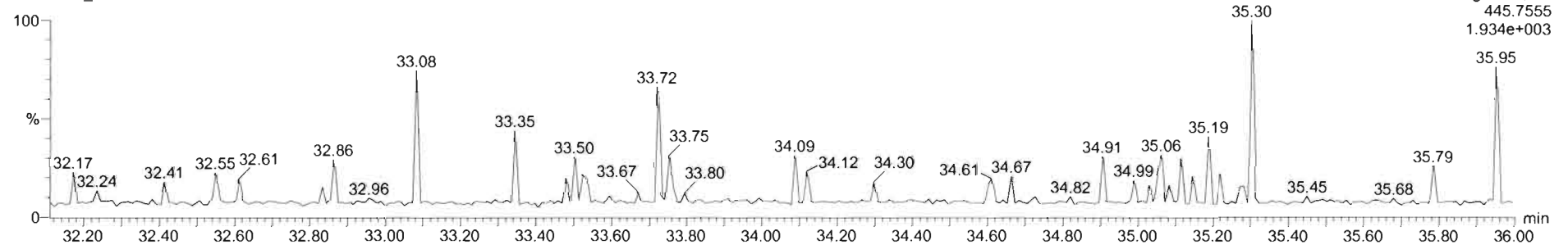


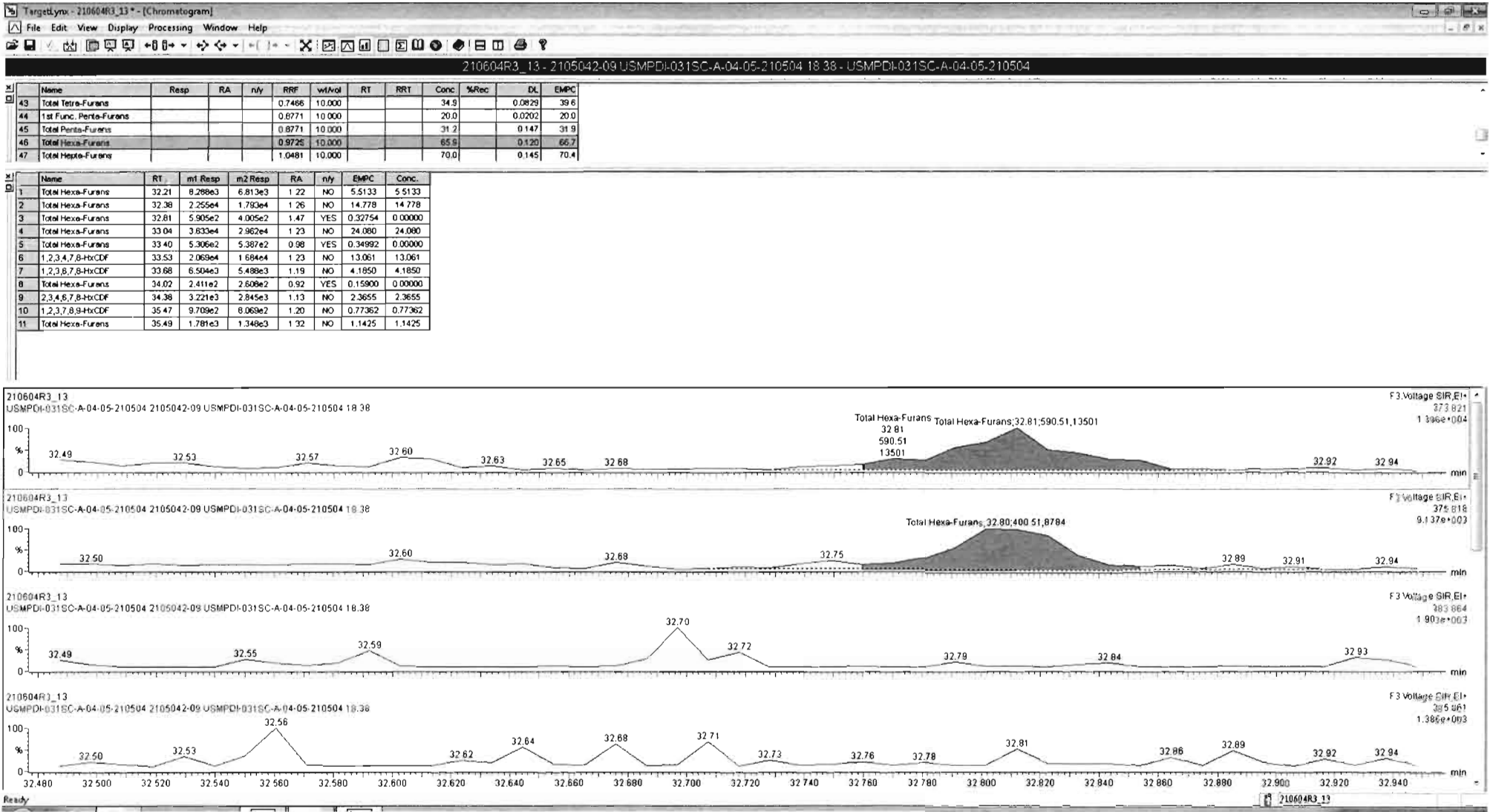
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DPE3

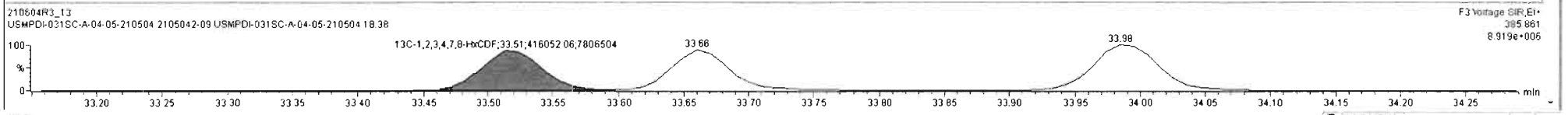
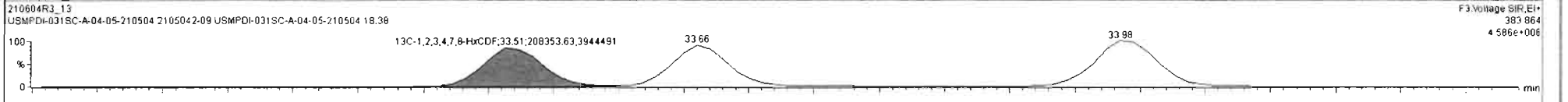
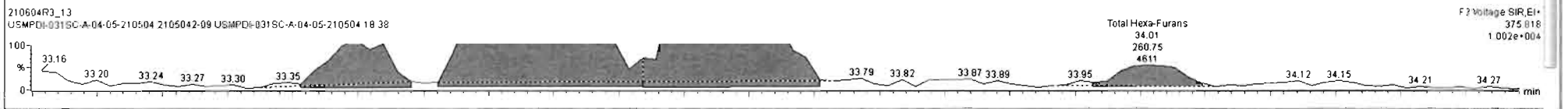
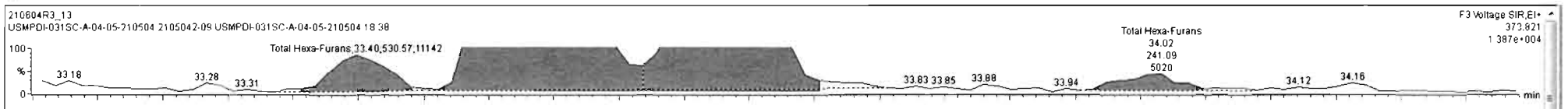
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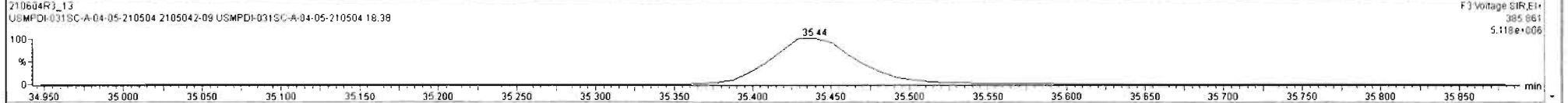
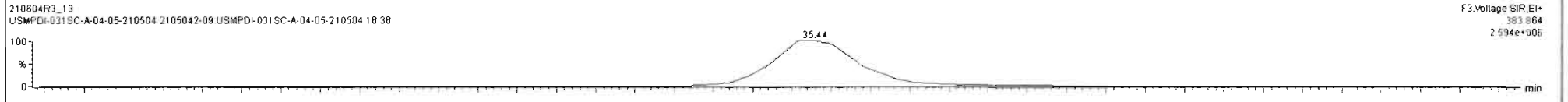
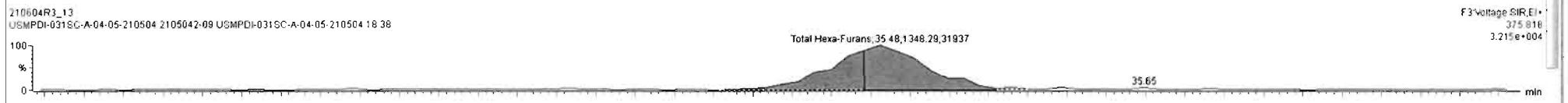
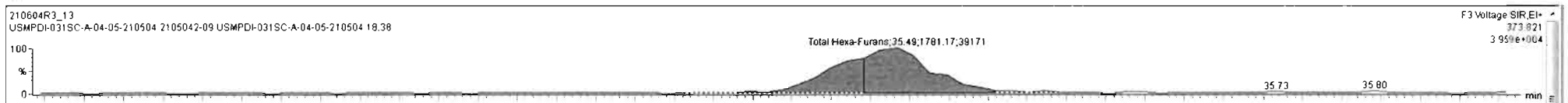
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.000			34.9		0.0829	39.6
44 1st Func. Penta-Furans				0.8771	10.000			20.0		0.0202	20.0
45 Total Penta-Furans				0.8771	10.000			31.2		0.147	31.9
46 Total Hexa-Furans				0.9725	10.000			65.8		0.120	66.7
47 Total Hepta-Furans				1.0481	10.000			70.0		0.145	70.4

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.21	8.288e3	6.813e3	1.22	NO	5.5133	5.5133
2 Total Hexa-Furans	32.38	2.255e4	1.793e4	1.26	NO	14.778	14.778
3 Total Hexa-Furans	32.81	5.905e2	4.005e2	1.47	YES	0.32754	0.00000
4 Total Hexa-Furans	33.04	3.633e4	2.962e4	1.23	NO	24.080	24.080
5 Total Hexa-Furans	33.40	5.306e2	5.387e2	0.98	YES	0.34992	0.00000
6 1,2,3,4,7,8-HxCDF	33.53	2.068e4	1.684e4	1.23	NO	13.061	13.061
7 1,2,3,6,7,8-HxCDF	33.88	6.504e3	5.488e3	1.19	NO	4.1850	4.1850
8 Total Hexa-Furans	34.02	2.411e2	2.609e2	0.92	YES	0.15900	0.00000
9 2,3,4,6,7,8-HxCDF	34.38	3.221e3	2.845e3	1.13	NO	2.3655	2.3655
10 1,2,3,7,8-HxCDF	35.47	9.708e2	8.063e2	1.20	NO	0.77362	0.77362
11 Total Hexa-Furans	35.49	1.781e3	1.348e3	1.32	NO	1.1425	1.1425



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7468	10.000			34.9		0.0829	39.6
44	1st Func. Penta-Furans				0.8771	10.000			20.0		0.0202	20.0
45	Total Penta-Furans				0.8771	10.000			31.2		0.147	31.9
46	Total Hexa-Furans				0.9725	10.000			65.9		0.120	66.7
47	Total Hepta-Furans				1.0481	10.000			70.0		0.145	70.4

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.21	8.288e3	6.813e3	1.22	NO	5.5133	5.5133
2	Total Hexa-Furans	32.38	2.255e4	1.793e4	1.26	NO	14.778	14.778
3	Total Hexa-Furans	32.81	5.905e2	4.005e2	1.47	YES	0.32754	0.00000
4	Total Hexa-Furans	33.04	3.633e4	2.962e4	1.23	NO	24.080	24.080
5	Total Hexa-Furans	33.40	5.306e2	5.387e2	0.98	YES	0.34992	0.00000
6	1,2,3,4,7,8-HxCDF	33.53	2.069e4	1.694e4	1.23	NO	13.061	13.061
7	1,2,3,6,7,8-HxCDF	33.68	6.504e3	5.498e3	1.19	NO	4.1850	4.1850
8	Total Hexa-Furans	34.02	2.411e2	2.608e2	0.92	YES	0.15900	0.00000
9	2,3,4,6,7,8-HxCDF	34.38	3.221e3	2.845e3	1.13	NO	2.3655	2.3655
10	1,2,3,7,8,9-HxCDF	35.47	9.709e2	8.069e2	1.20	NO	0.77362	0.77362
11	Total Hexa-Furans	35.49	1.781e3	1.348e3	1.32	NO	1.1425	1.1425



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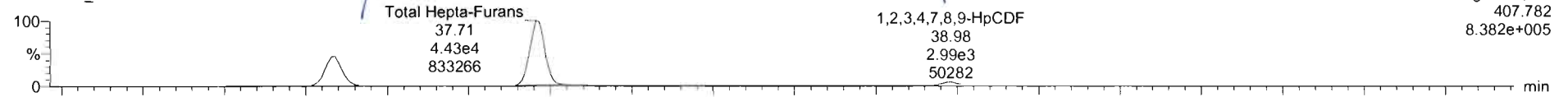
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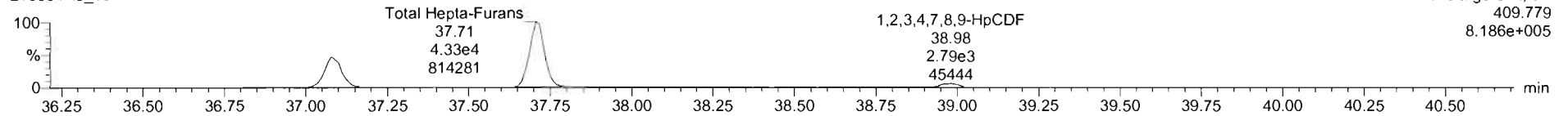
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1,2,3,4,6,7,8-HpCDF

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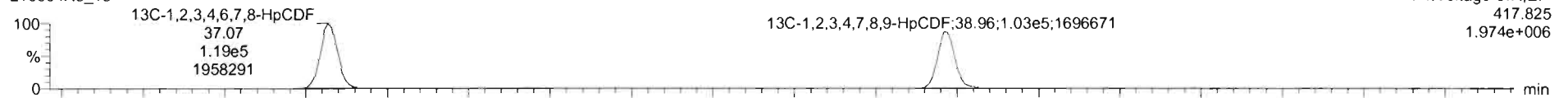


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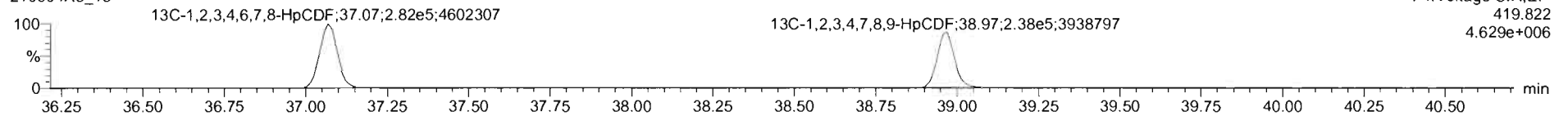


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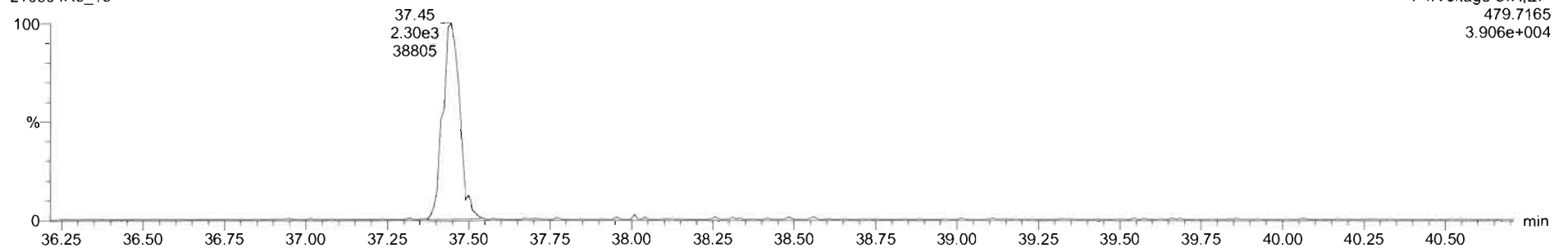


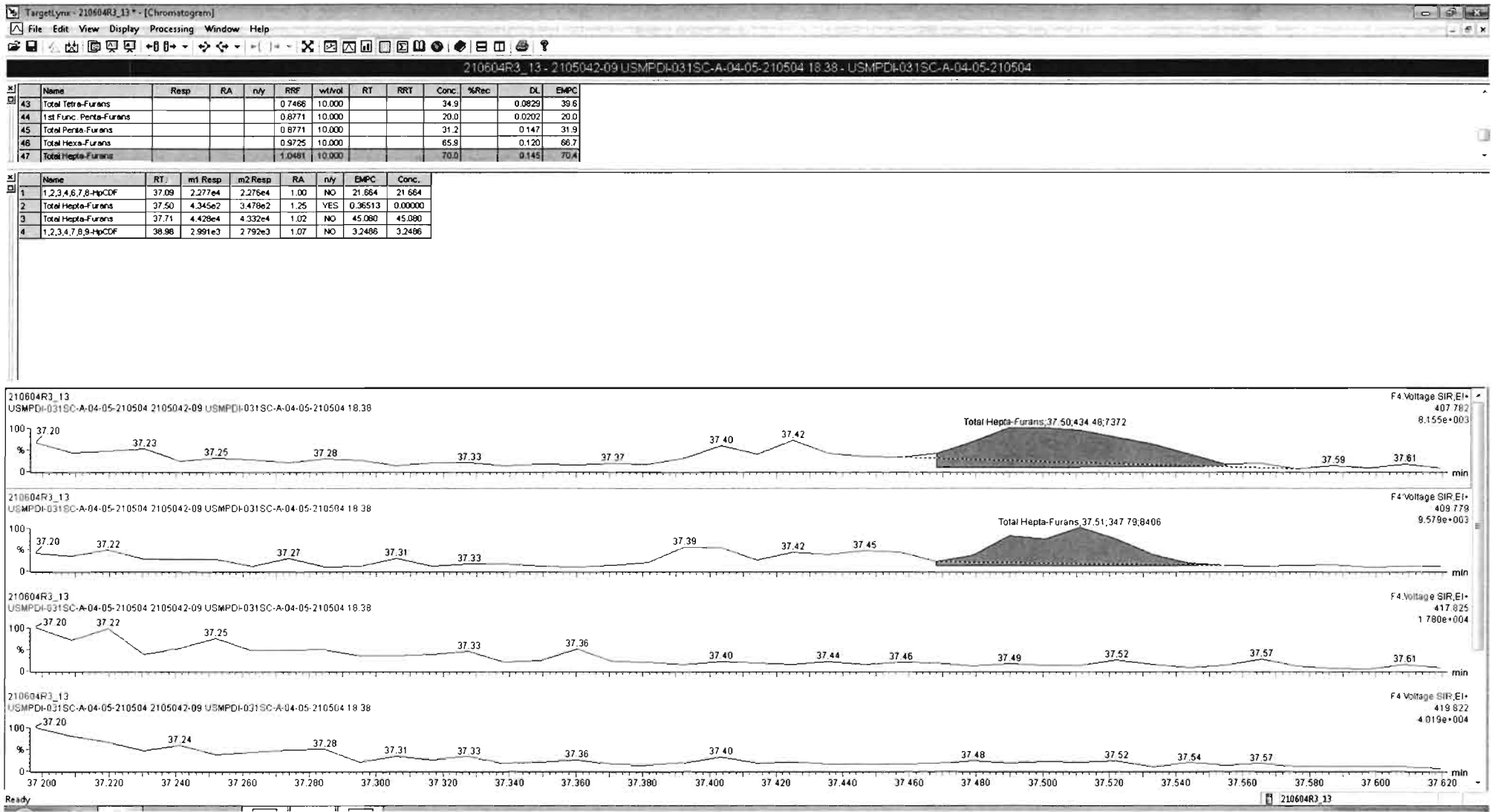
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DPE4

210604R3_13



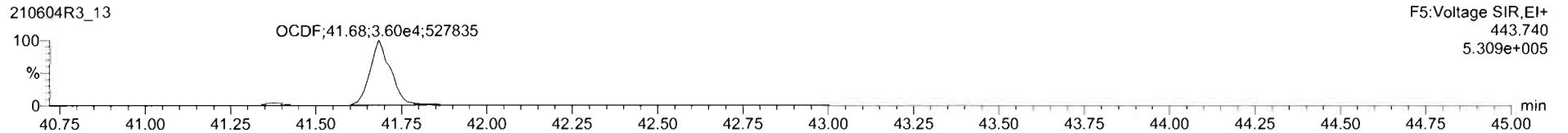
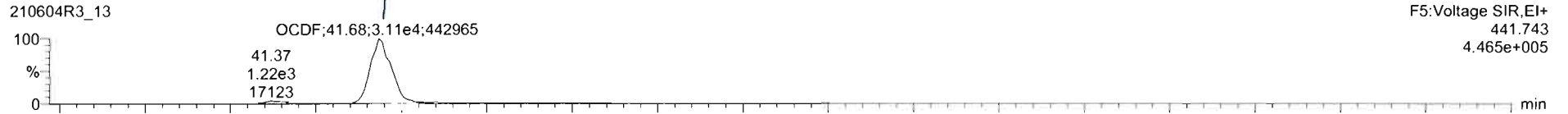


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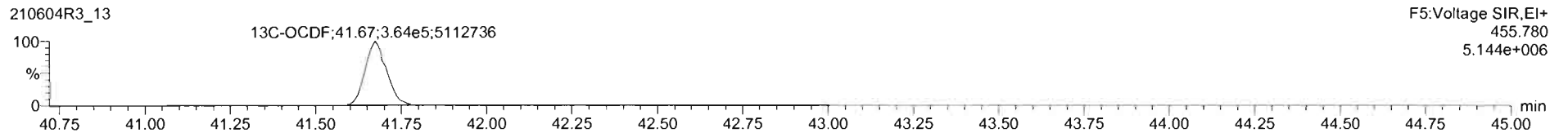
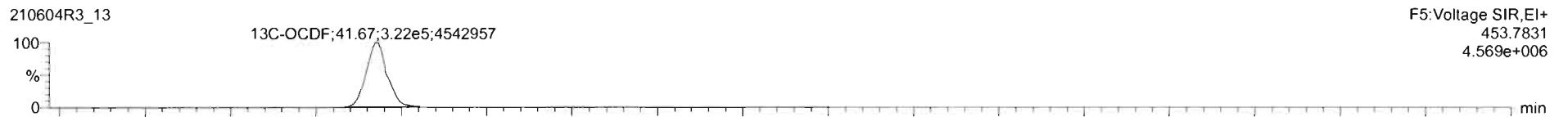
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Name: 210604R3_13, Date: 05-Jun-2021, Time: 06:48:02, ID: 2105042-09 USMPDI-031SC-A-04-05-210504 18.38, Description: USMPDI-031SC-A-04-05-210504

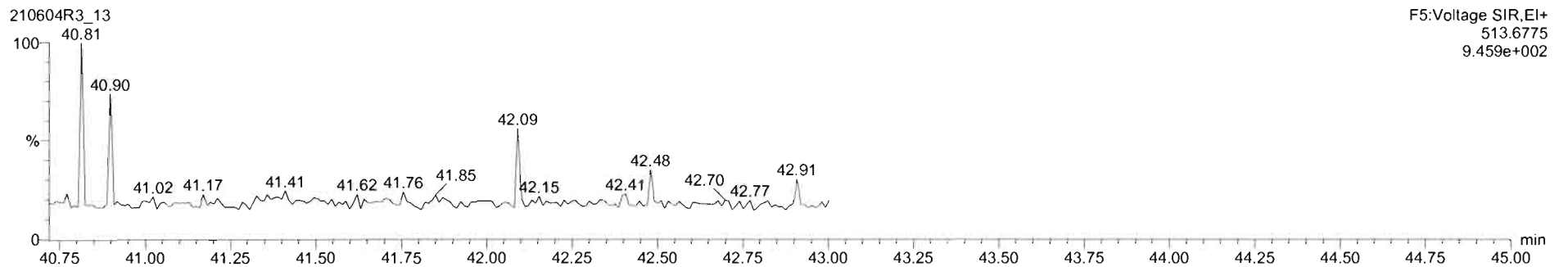
OCDF



13C-OCDF



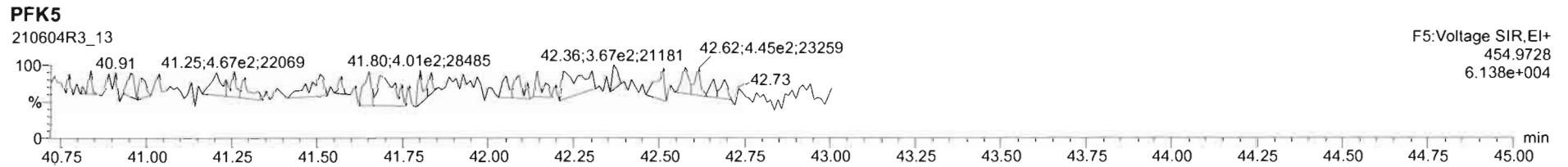
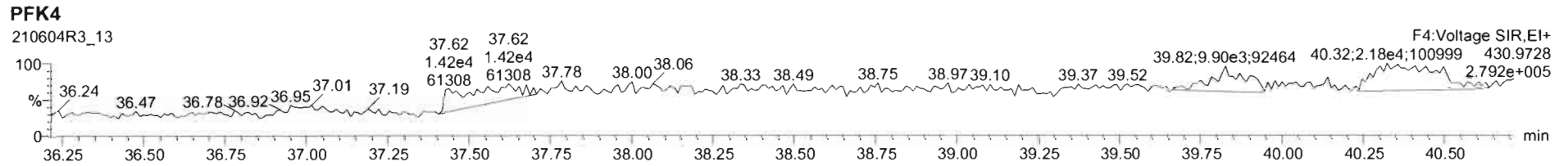
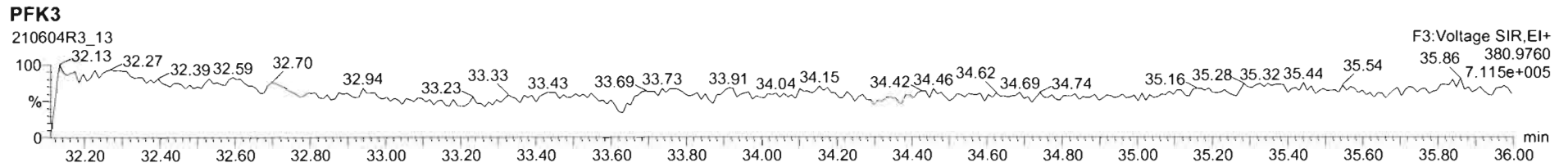
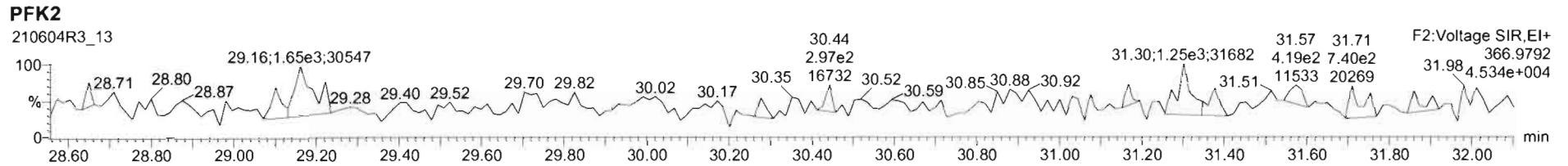
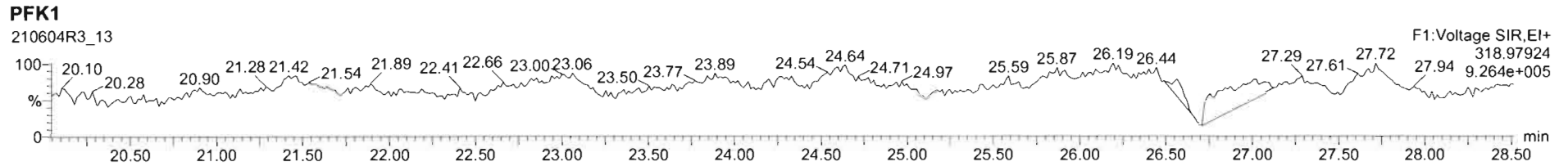
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Name: 210604R3_13, Date: 05-Jun-2021, Time: 06:48:02, ID: 2105042-09 USMPDI-031SC-A-04-05-210504 18.38, Description: USMPDI-031SC-A-04-05-210504



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_14.qld

Last Altered: Friday, June 18, 2021 15:11:30 Pacific Daylight Time
Printed: Friday, June 18, 2021 15:35:02 Pacific Daylight Time

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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	5.93e2	0.17	YES	0.929	10.018	26.713	26.71	1.001	1.001	0.24879		0.0847	0.0811
2	2 1,2,3,7,8-PeCDD	4.00e2	0.64	NO	0.826	10.018	31.136	31.10	1.001	1.000	0.18414		0.202	0.184
3	3 1,2,3,4,7,8-HxCDD	7.59e2	1.30	NO	0.972	10.018	34.477	34.47	1.001	1.000	0.32679		0.0777	0.327
4	4 1,2,3,6,7,8-HxCDD	3.39e3	1.20	NO	0.877	10.018	34.612	34.60	1.001	1.000	1.4417		0.0750	1.44
5	5 1,2,3,7,8,9-HxCDD	1.72e3	1.23	NO	0.874	10.018	34.884	34.88	1.000	1.000	0.74467		0.0781	0.745
6	6 1,2,3,4,6,7,8-HpCDD	5.47e4	1.02	NO	0.899	10.018	38.268	38.27	1.000	1.000	30.547		0.276	30.5
7	7 OCDD	3.57e5	0.89	NO	0.852	10.018	41.356	41.35	1.000	1.000	304.17		0.643	304
8	8 2,3,7,8-TCDF	3.38e3	0.78	NO	0.747	10.018	26.063	26.07	1.000	1.001	0.70717		0.0582	0.707
9	9 1,2,3,7,8-PeCDF	4.46e3	1.61	NO	0.877	10.018	29.917	29.93	1.000	1.001	1.0458		0.0592	1.05
10	10 2,3,4,7,8-PeCDF	2.03e3	1.33	NO	0.962	10.018	30.931	30.94	1.001	1.001	0.54138		0.0767	0.541
11	11 1,2,3,4,7,8-HxCDF	4.49e3	1.32	NO	0.920	10.018	33.523	33.53	1.000	1.001	1.4974		0.0761	1.50
12	12 1,2,3,6,7,8-HxCDF	1.51e3	1.30	NO	0.936	10.018	33.680	33.67	1.001	1.000	0.53029		0.0801	0.530
13	13 2,3,4,6,7,8-HxCDF	9.72e2	1.41	NO	0.973	10.018	34.372	34.38	1.001	1.001	0.34694		0.0888	0.347
14	14 1,2,3,7,8,9-HxCDF	7.70e2	1.48	YES	0.940	10.018	35.440	35.46	1.000	1.001	0.33902		0.115	0.307
15	15 1,2,3,4,6,7,8-HpCDF	7.88e3	1.00	NO	1.05	10.018	37.066	37.07	1.000	1.001	3.7126		0.0784	3.71
16	16 1,2,3,4,7,8,9-HpCDF	7.73e2	0.91	NO	1.05	10.018	38.928	38.94	1.000	1.001	0.45248		0.0924	0.452
17	17 OCDF	1.40e4	0.86	NO	0.771	10.018	41.670	41.68	1.000	1.001	10.478		0.138	10.5
18	18 13C-2,3,7,8-TCDD	5.19e5	0.76	NO	1.10	10.018	26.670	26.68	1.027	1.027	94.390	47.3	0.184	
19	19 13C-1,2,3,7,8-PeCDD	5.25e5	0.70	NO	0.864	10.018	31.051	31.10	1.196	1.198	122.22	61.2	0.292	
20	20 13C-1,2,3,4,7,8-HxCDD	4.77e5	1.27	NO	0.746	10.018	34.453	34.46	1.014	1.014	152.21	76.2	0.348	
21	21 13C-1,2,3,6,7,8-HxCDD	5.36e5	1.29	NO	0.847	10.018	34.572	34.59	1.017	1.018	150.69	75.5	0.307	
22	22 13C-1,2,3,7,8,9-HxCDD	5.29e5	1.26	NO	0.868	10.018	34.871	34.87	1.026	1.026	145.05	72.7	0.299	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.98e5	1.00	NO	0.664	10.018	38.218	38.26	1.125	1.126	142.63	71.4	0.369	
24	24 13C-OCDD	5.50e5	0.90	NO	0.561	10.018	41.165	41.35	1.211	1.217	233.46	58.5	0.570	
25	25 13C-2,3,7,8-TCDF	1.28e6	0.77	NO	1.09	10.018	26.059	26.06	1.003	1.003	154.05	77.2	0.112	
26	26 13C-1,2,3,7,8-PeCDF	9.70e5	1.63	NO	0.809	10.018	29.781	29.91	1.147	1.152	158.11	79.2	0.746	
27	27 13C-2,3,4,7,8-PeCDF	7.80e5	1.58	NO	0.803	10.018	30.742	30.91	1.184	1.190	128.11	64.2	0.752	
28	28 13C-1,2,3,4,7,8-HxCDF	6.51e5	0.51	NO	1.01	10.018	33.525	33.51	0.987	0.986	153.39	76.8	0.304	
29	29 13C-1,2,3,6,7,8-HxCDF	6.07e5	0.50	NO	1.07	10.018	33.654	33.66	0.990	0.990	134.74	67.5	0.287	
30	30 13C-2,3,4,6,7,8-HxCDF	5.75e5	0.50	NO	0.910	10.018	34.344	34.35	1.011	1.011	150.64	75.5	0.338	
31	31 13C-1,2,3,7,8,9-HxCDF	4.82e5	0.49	NO	0.828	10.018	35.422	35.43	1.042	1.043	138.68	69.5	0.372	

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_14.qld

Last Altered: Friday, June 18, 2021 15:11:30 Pacific Daylight Time
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Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.04e5	0.42	NO	0.661	10.018	37.029	37.05	1.090	1.090	145.74	73.0	0.360	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.26e5	0.44	NO	0.566	10.018	38.789	38.92	1.141	1.145	137.42	68.8	0.420	
34	34 13C-OCDF	6.90e5	0.90	NO	0.663	10.018	41.552	41.66	1.223	1.226	248.24	62.2	0.549	
35	35 37Cl-2,3,7,8-TCDD	6.05e5			2.07	10.018	26.870	26.71	1.035	1.028	58.819	73.7	0.0668	
36	36 13C-1,2,3,4-TCDD	9.93e5	0.77	NO	1.00	10.018	26.070	25.97	1.000	1.000	199.64	100	0.203	
37	37 13C-1,2,3,4-TCDF	1.51e6	0.79	NO	1.00	10.018	24.760	24.64	1.000	1.000	199.64	100	0.122	
38	38 13C-1,2,3,4,6,9-HxCDF	8.38e5	0.51	NO	1.00	10.018	34.040	33.98	1.000	1.000	199.64	100	0.308	
39	39 Total Tetra-Dioxins				0.929	10.018	24.620		0.000		0.68186		0.0847	1.33
40	40 Total Penta-Dioxins				0.826	10.018	29.960		0.000		1.2588		0.202	1.69
41	41 Total Hexa-Dioxins				0.877	10.018	33.635		0.000		9.2615		0.0794	9.26
42	42 Total Hepta-Dioxins				0.899	10.018	37.640		0.000		62.760		0.276	62.8
43	43 Total Tetra-Furans				0.747	10.018	23.610		0.000		2.3723		0.0582	2.37
44	44 1st Func. Penta-Furans				0.877	10.018	27.620		0.000		1.7890		0.0107	1.79
45	45 Total Penta-Furans				0.877	10.018	29.275		0.000		2.2558		0.0703	3.32
46	46 Total Hexa-Furans				0.973	10.018	33.555		0.000		8.0434		0.0857	8.35
47	47 Total Hepta-Furans				1.05	10.018	37.835		0.000		11.199		0.0845	11.2

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Dataset: U:\VG12.PRO\Results\210604R3\210604R3_14.qld

Last Altered: Friday, June 18, 2021 15:11:30 Pacific Daylight Time

Printed: Friday, June 18, 2021 15:35:02 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	7.071e3	7.757e3	4.405e2	5.417e2	0.81	NO	9.822e2	0.40702	0.40702	0.0847
2	Total Tetra-Dioxins	23.59	5.281e3	4.910e3	3.103e2	3.529e2	0.88	NO	6.632e2	0.27484	0.27484	0.0847
3	Total Tetra-Dioxins	26.44	1.138e4	1.177e4	6.843e2	7.727e2	0.89	YES	0.000e0	0.00000	0.56677	0.0847
4	2,3,7,8-TCDD	26.71	1.255e3	1.027e4	8.514e1	5.080e2	0.17	YES	5.931e2	0.00000	0.081106	0.0847

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.93	9.619e3	1.401e4	5.068e2	7.665e2	0.66	NO	1.273e3	0.58618	0.58618	0.202
2	Total Penta-Dioxins	29.19	2.613e3	7.416e3	1.226e2	4.356e2	0.28	YES	0.000e0	0.00000	0.14604	0.202
3	Total Penta-Dioxins	29.40	2.184e3	3.285e3	9.392e1	1.739e2	0.54	NO	2.678e2	0.12327	0.12327	0.202
4	Total Penta-Dioxins	29.91	5.411e3	8.141e3	3.164e2	3.825e2	0.83	YES	0.000e0	0.00000	0.28702	0.202
5	Total Penta-Dioxins	30.09	4.332e3	8.743e3	3.013e2	4.920e2	0.61	NO	7.934e2	0.36525	0.36525	0.202
6	1,2,3,7,8-PeCDD	31.10	2.327e3	5.973e3	1.559e2	2.441e2	0.64	NO	4.000e2	0.18414	0.18414	0.202

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.75	6.252e4	5.432e4	3.144e3	2.678e3	1.17	NO	5.822e3	2.5795	2.5795	0.0794
2	Total Hexa-Dioxins	33.39	8.729e3	8.508e3	4.692e2	3.759e2	1.25	NO	8.451e2	0.37445	0.37445	0.0794
3	Total Hexa-Dioxins	33.69	6.019e4	6.082e4	4.152e3	3.506e3	1.18	NO	7.658e3	3.3931	3.3931	0.0794
4	Total Hexa-Dioxins	33.79	5.572e3	4.156e3	2.863e2	2.258e2	1.27	NO	5.122e2	0.22692	0.22692	0.0794
5	1,2,3,4,7,8-HxCDD	34.47	6.814e3	6.012e3	4.293e2	3.297e2	1.30	NO	7.590e2	0.32679	0.32679	0.0777
6	1,2,3,6,7,8-HxCDD	34.60	3.506e4	2.665e4	1.852e3	1.540e3	1.20	NO	3.393e3	1.4417	1.4417	0.0750
7	Total Hexa-Dioxins	34.76	4.227e3	2.925e3	2.169e2	1.765e2	1.23	NO	3.934e2	0.17432	0.17432	0.0794
8	1,2,3,7,8,9-HxCDD	34.88	1.563e4	1.516e4	9.520e2	7.716e2	1.23	NO	1.724e3	0.74467	0.74467	0.0781

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Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	5.173e5	5.075e5	2.948e4	2.818e4	1.05	NO	5.767e4	32.213	32.213	0.276
2	1,2,3,4,6,7,8-HpCDD	38.27	5.078e5	5.098e5	2.759e4	2.710e4	1.02	NO	5.469e4	30.547	30.547	0.276

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	22.53	9.695e3	1.301e4	6.761e2	9.702e2	0.70	NO	1.646e3	0.34489	0.34489	0.0582
2	Total Tetra-Furans	23.35	4.752e3	6.764e3	4.941e2	6.563e2	0.75	NO	1.150e3	0.24099	0.24099	0.0582
3	Total Tetra-Furans	23.72	5.327e3	7.109e3	3.267e2	4.821e2	0.68	NO	8.088e2	0.16943	0.16943	0.0582
4	Total Tetra-Furans	24.74	5.678e3	8.393e3	5.254e2	6.232e2	0.84	NO	1.149e3	0.24063	0.24063	0.0582
5	Total Tetra-Furans	25.16	1.487e4	1.881e4	9.933e2	1.320e3	0.75	NO	2.313e3	0.48464	0.48464	0.0582
6	Total Tetra-Furans	25.94	4.887e3	5.136e3	2.307e2	2.831e2	0.82	NO	5.138e2	0.10763	0.10763	0.0582
7	2,3,7,8-TCDF	26.07	2.385e4	3.399e4	1.483e3	1.893e3	0.78	NO	3.376e3	0.70717	0.70717	0.0582
8	Total Tetra-Furans	27.45	4.803e3	2.771e3	1.717e2	1.954e2	0.88	NO	3.671e2	0.076893	0.076893	0.0582

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	7.411e4	4.788e4	4.164e3	2.714e3	1.53	NO	6.878e3	1.7890	1.7890	0.0107

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.83	6.669e3	3.978e3	2.997e2	2.349e2	1.28	YES	0.000e0	0.00000	0.12824	0.0703
2	Total Penta-Furans	28.98	3.149e4	2.986e4	2.192e3	1.667e3	1.32	YES	0.000e0	0.00000	0.93817	0.0703
3	Total Penta-Furans	29.57	8.722e3	5.317e3	4.882e2	3.114e2	1.57	NO	7.996e2	0.20798	0.20798	0.0703
4	Total Penta-Furans	29.73	5.316e3	4.302e3	2.558e2	1.795e2	1.43	NO	4.353e2	0.11322	0.11322	0.0703
5	1,2,3,7,8-PeCDF	29.93	5.583e4	3.203e4	2.748e3	1.710e3	1.61	NO	4.458e3	1.0458	1.0458	0.0592
6	Total Penta-Furans	30.17	2.007e4	8.748e3	8.442e2	4.912e2	1.72	NO	1.335e3	0.34736	0.34736	0.0703
7	2,3,4,7,8-PeCDF	30.94	2.491e4	1.728e4	1.162e3	8.726e2	1.33	NO	2.035e3	0.54138	0.54138	0.0767

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Dataset: U:\VG12.PRO\Results\210604R3\210604R3_14.qld

Last Altered: Friday, June 18, 2021 15:11:30 Pacific Daylight Time

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Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.22	2.524e4	2.289e4	1.140e3	1.037e3	1.10	NO	2.178e3	0.77223	0.77223	0.0857
2	Total Hexa-Furans	32.38	6.423e4	5.066e4	3.211e3	2.600e3	1.24	NO	5.811e3	2.0605	2.0605	0.0857
3	Total Hexa-Furans	33.04	8.115e4	6.685e4	4.523e3	3.476e3	1.30	NO	7.998e3	2.8360	2.8360	0.0857
4	1,2,3,4,7,8-HxCDF	33.53	5.183e4	3.778e4	2.554e3	1.941e3	1.32	NO	4.494e3	1.4974	1.4974	0.0761
5	1,2,3,6,7,8-HxCDF	33.67	1.801e4	1.259e4	8.545e2	6.555e2	1.30	NO	1.510e3	0.53029	0.53029	0.0801
6	2,3,4,6,7,8-HxCDF	34.38	8.297e3	8.880e3	5.685e2	4.036e2	1.41	NO	9.721e2	0.34694	0.34694	0.0888
7	1,2,3,7,8,9-HxCDF	35.46	6.747e3	5.023e3	4.588e2	3.108e2	1.48	YES	7.696e2	0.00000	0.30665	0.115

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.07	6.718e4	6.558e4	3.942e3	3.939e3	1.00	NO	7.881e3	3.7126	3.7126	0.0784
2	Total Hepta-Furans	37.69	1.228e5	1.183e5	6.873e3	6.619e3	1.04	NO	1.349e4	7.0340	7.0340	0.0845
3	1,2,3,4,7,8,9-HpCDF	38.94	7.173e3	9.091e3	3.677e2	4.056e2	0.91	NO	7.734e2	0.45248	0.45248	0.0924

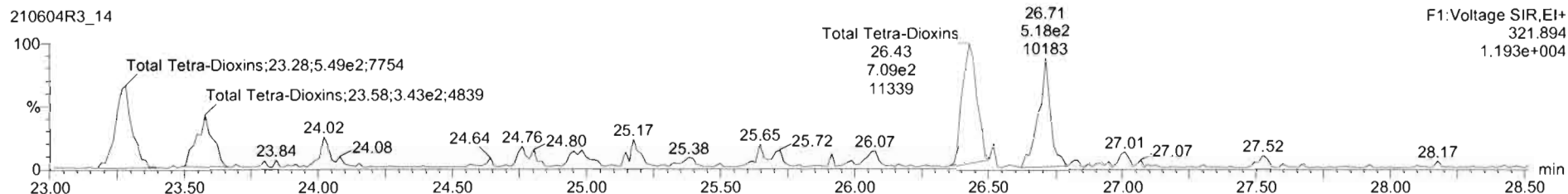
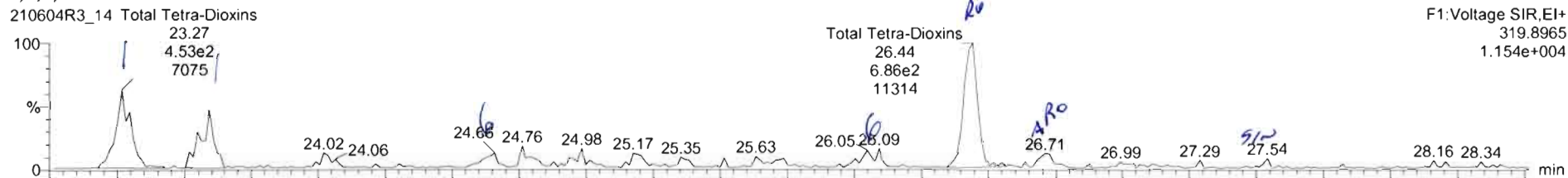
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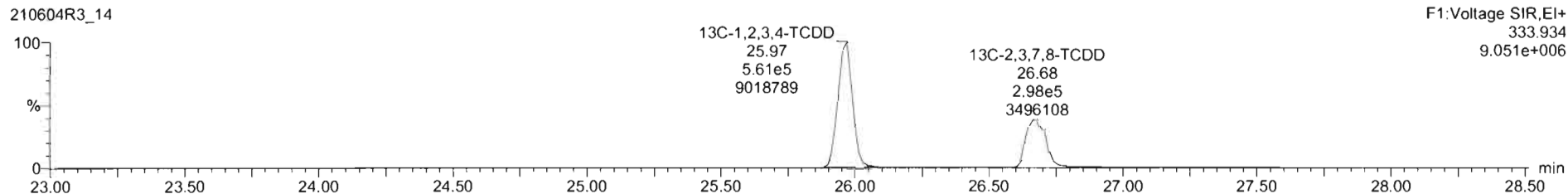
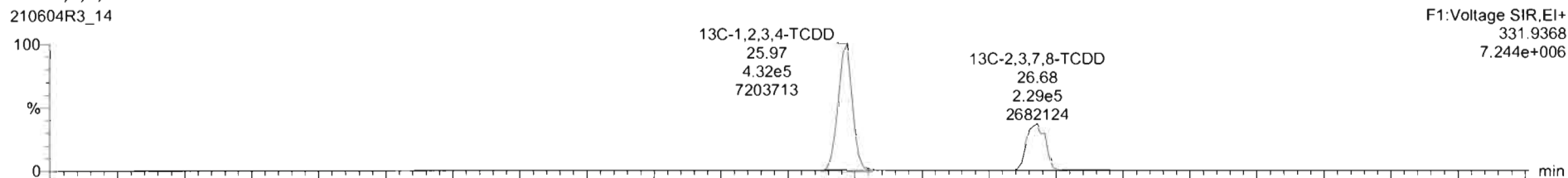
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Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

2,3,7,8-TCDD

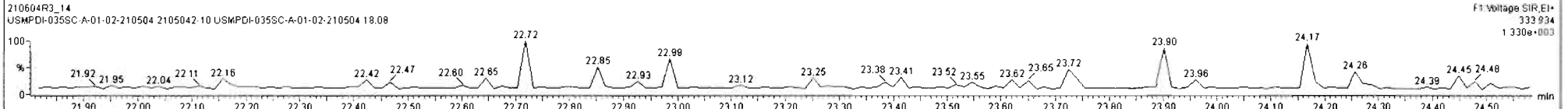
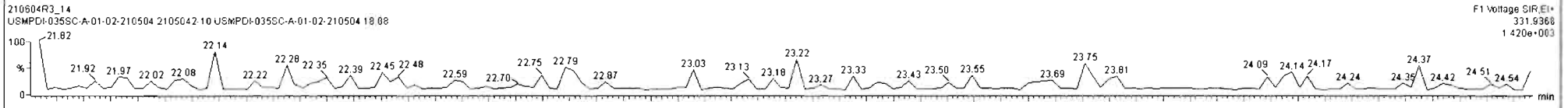
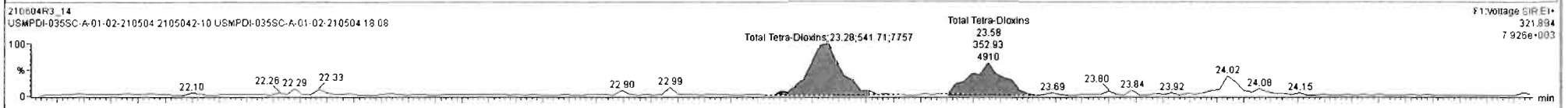
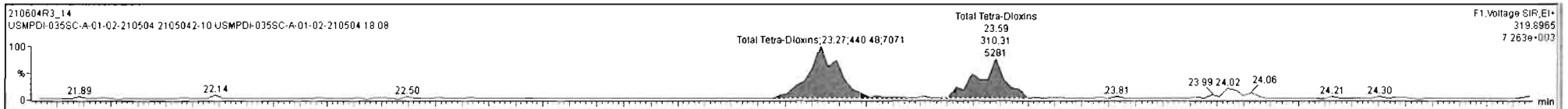


13C-2,3,7,8-TCDD



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.018			0.682		0.0847	1.33
40 Total Penta-Dioxins				0.8257	10.018			1.26		0.202	1.69
41 Total Hexa-Dioxins				0.8771	10.018			9.04		0.0794	9.04
42 Total Hepta-Dioxins				0.6907	10.018			62.8		0.276	62.8
43 Total Tetra-Furans				0.7466	10.018			2.37		0.0582	2.50

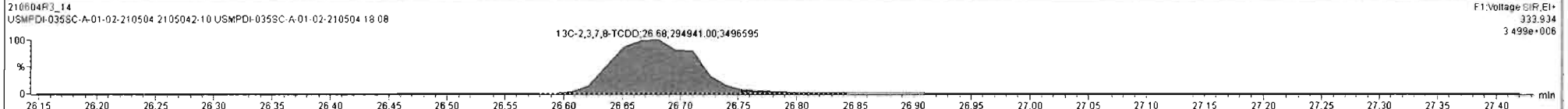
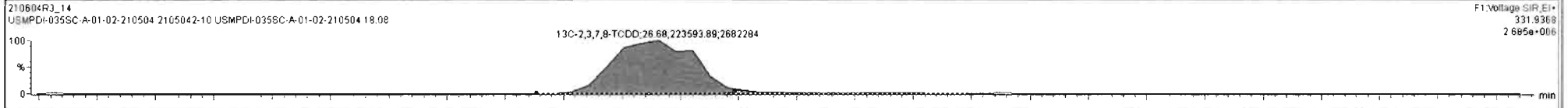
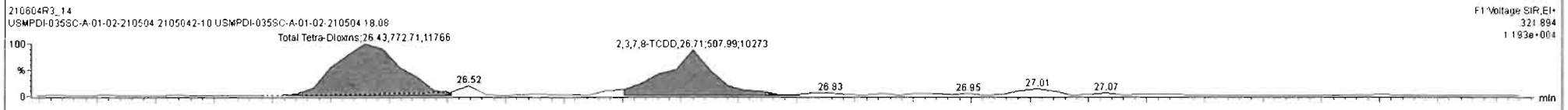
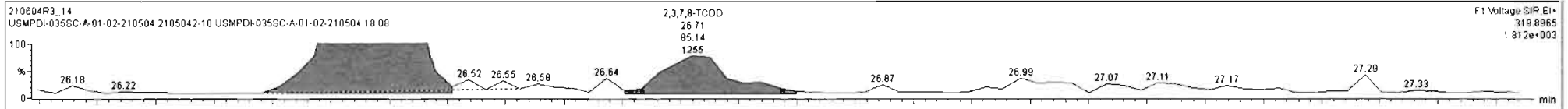
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.27	4.405e2	5.417e2	0.81	NO	0.40702	0.40702
2 Total Tetra-Dioxins	23.58	3.103e2	3.529e2	0.88	NO	0.27484	0.27484
3 Total Tetra-Dioxins	26.44	6.843e2	7.727e2	0.89	YES	0.56677	0.00000
4 2,3,7,8-TCDD	26.71	8.514e1	5.080e2	0.17	YES	0.08106	0.00000



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#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9291	10.018			0.682		0.0847	1.33
40	Total Penta-Dioxins				0.8257	10.018			1.26		0.202	1.68
41	Total Hexa-Dioxins				0.8771	10.019			9.04		0.0794	9.04
42	Total Hepta-Dioxins				0.8987	10.018			62.8		0.276	62.8
43	Total Tetra-Furans				0.7466	10.018			2.37		0.0582	2.50

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Dioxins	23.27	4.405e2	5.417e2	0.81	NO	0.40702	0.40702
2	Total Tetra-Dioxins	23.59	3.103e2	3.529e2	0.88	NO	0.27484	0.27484
3	Total Tetra-Dioxins	26.44	6.843e2	7.727e2	0.89	YES	0.56877	0.00000
4	2,3,7,8-TCDD	26.71	8.514e1	5.080e2	0.17	YES	0.08106	0.00000



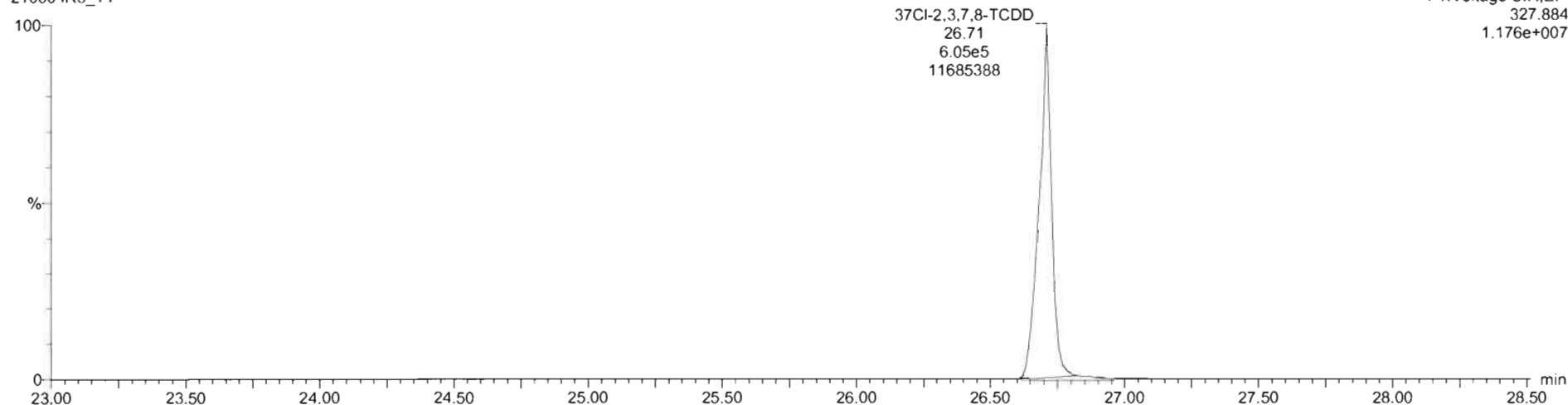
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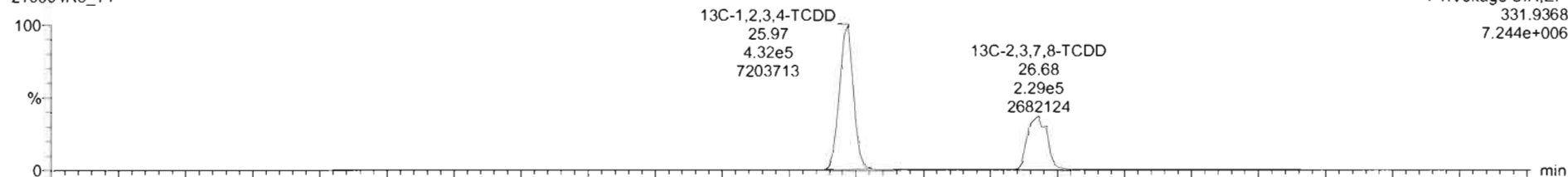
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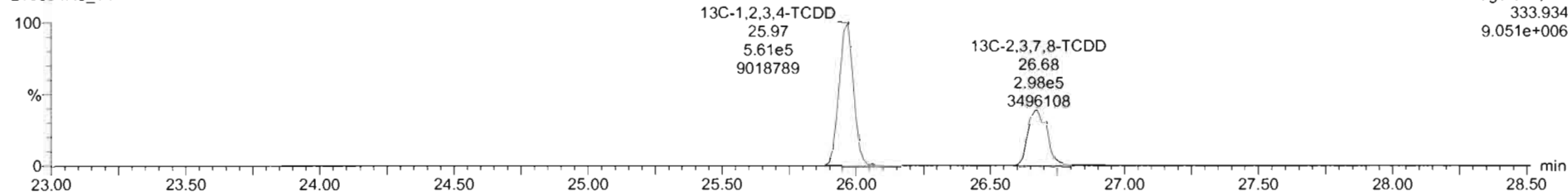


13C-1,2,3,4-TCDD

210604R3_14



210604R3_14



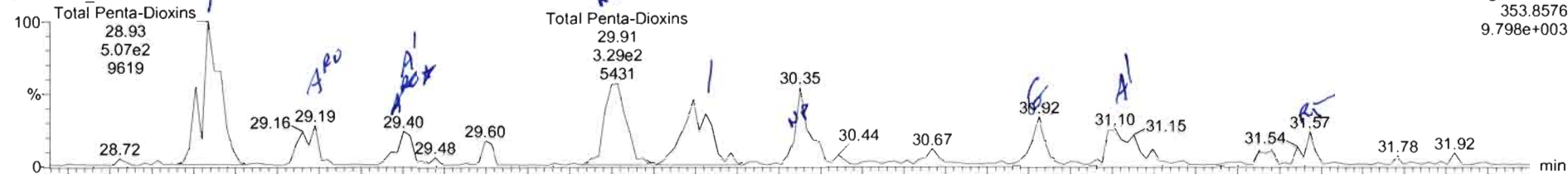
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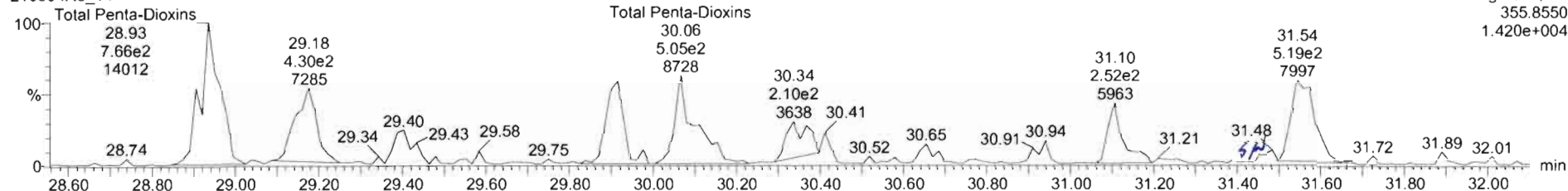
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1,2,3,7,8-PeCDD

210604R3_14

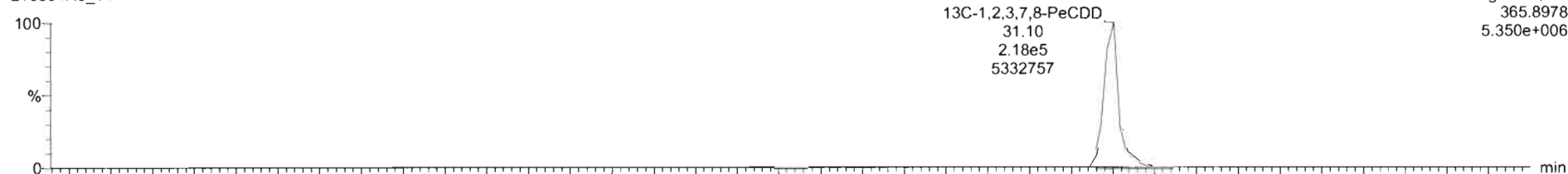


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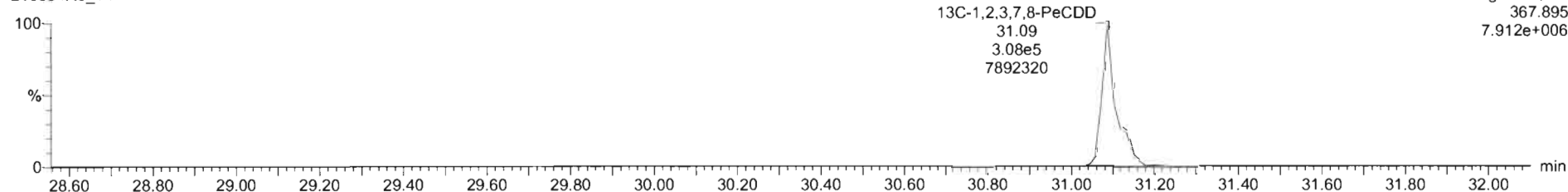


13C-1,2,3,7,8-PeCDD

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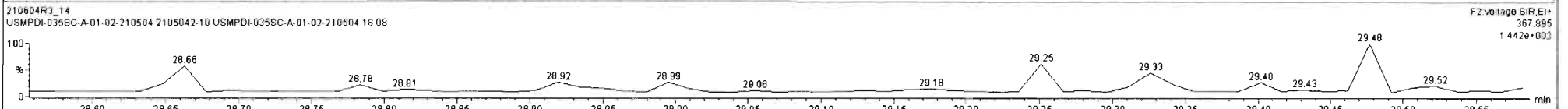
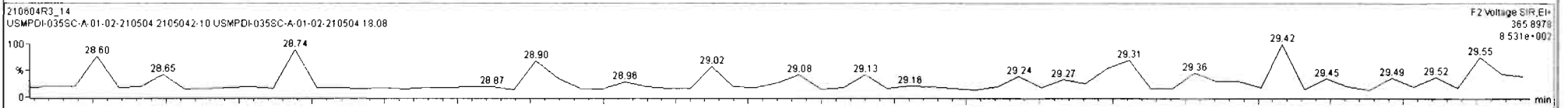
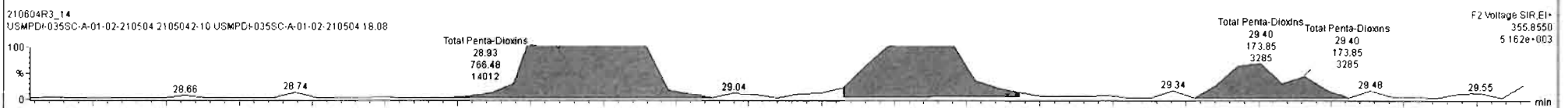
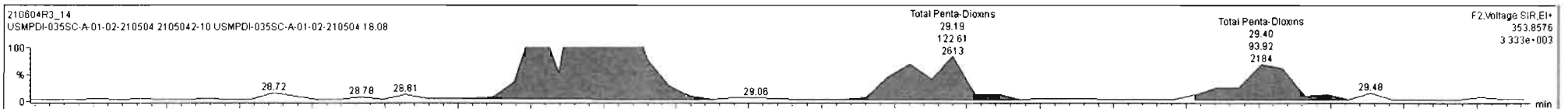
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Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.018			0.682	0.0847	1.33	
40 Total Penta-Dioxins				0.8257	10.018			1.26	0.202	1.68	
41 Total Hexa-Dioxins				0.8771	10.018			9.04	0.0794	9.04	
42 Total Hepta-Dioxins				0.8987	10.018			62.8	0.276	62.8	
43 Total Tetra-Furans				0.7466	10.018			2.37	0.0592	2.50	

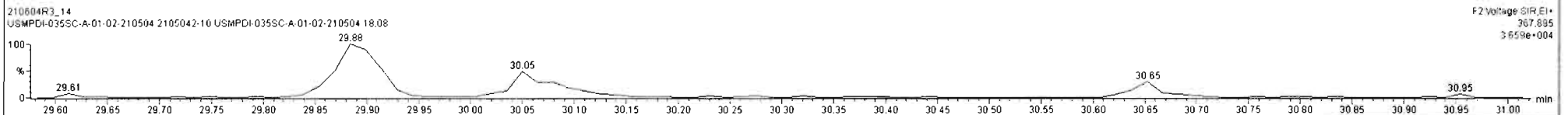
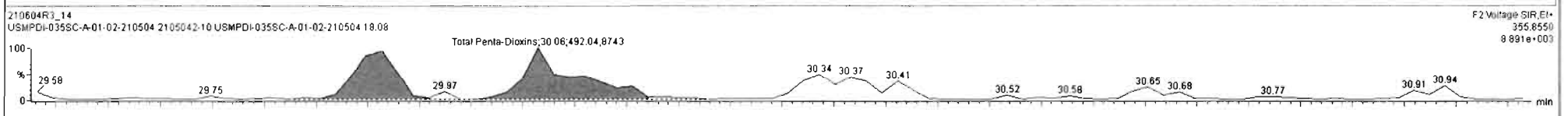
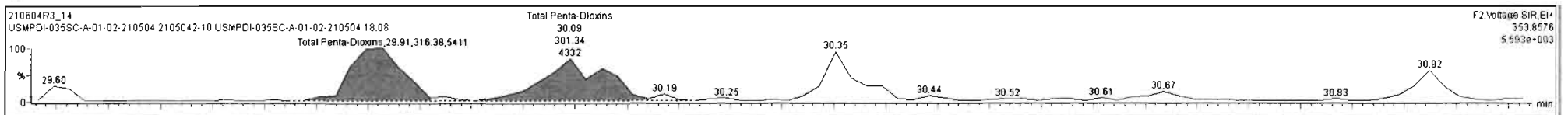
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.93	5.068e2	7.665e2	0.66	NO	0.58618	0.58618
2 Total Penta-Dioxins	29.19	1.272e2	4.356e2	0.28	YES	0.14604	0.00000
3 Total Penta-Dioxins	29.40	9.392e1	1.739e2	0.54	NO	0.12327	0.12327
4 Total Penta-Dioxins	29.91	3.164e2	3.825e2	0.83	YES	0.26702	0.00000
5 Total Penta-Dioxins	30.09	3.013e2	4.920e2	0.61	NO	0.36525	0.36525
6 1,2,3,7,8-PeCDD	31.10	1.534e2	2.441e2	0.63	NO	0.18300	0.18300

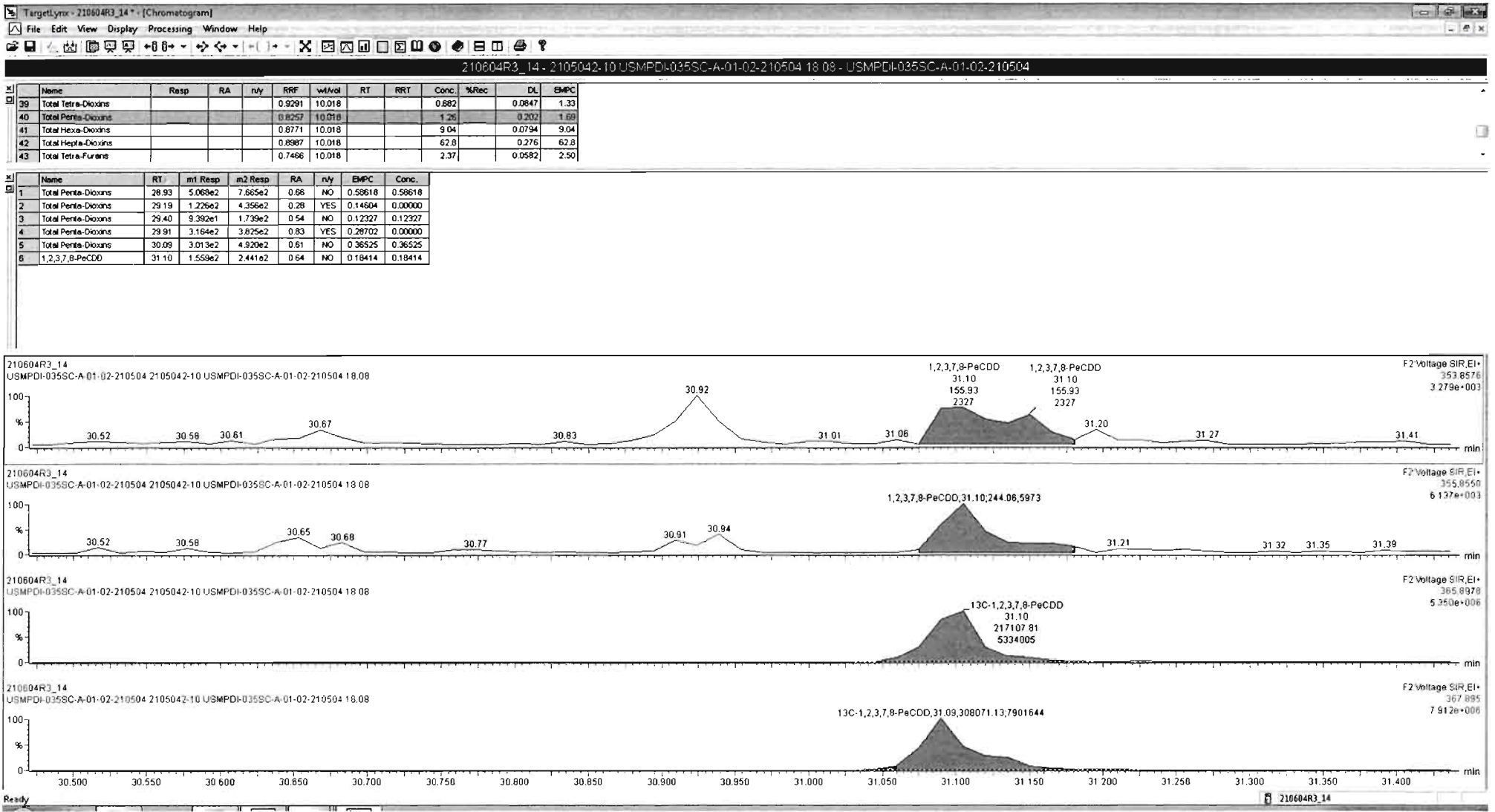


210604R3_14 - 2105042-10 USMPDI-035SC-A-01-02-210504 18:08 - USMPDI-035SC-A-01-02-210504

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.018			0.682	0.0847	1.33	
40 Total Penta-Dioxins				0.8257	10.018			1.26	0.202	1.65	
41 Total Hexa-Dioxins				0.8771	10.018			9.04	0.0794	9.04	
42 Total Hepta-Dioxins				0.8987	10.018			62.8	0.275	62.8	
43 Total Tetra-Furens				0.7466	10.018			2.37	0.0582	2.50	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.93	5.068e2	7.665e2	0.66	NO	0.58618	0.58618
2 Total Penta-Dioxins	28.19	1.236e2	4.356e2	0.28	YES	0.14604	0.00000
3 Total Penta-Dioxins	29.40	9.392e1	1.739e2	0.54	NO	0.12327	0.12327
4 Total Penta-Dioxins	29.91	3.164e2	3.825e2	0.83	YES	0.26702	0.00000
5 Total Penta-Dioxins	30.09	3.013e2	4.920e2	0.61	NO	0.36525	0.36525
6 1,2,3,7,8-PeCDD	31.10	1.534e2	2.441e2	0.63	NO	0.18300	0.18300



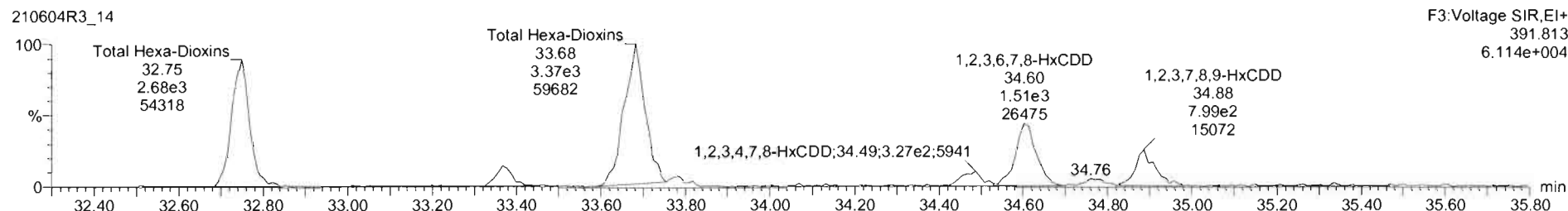
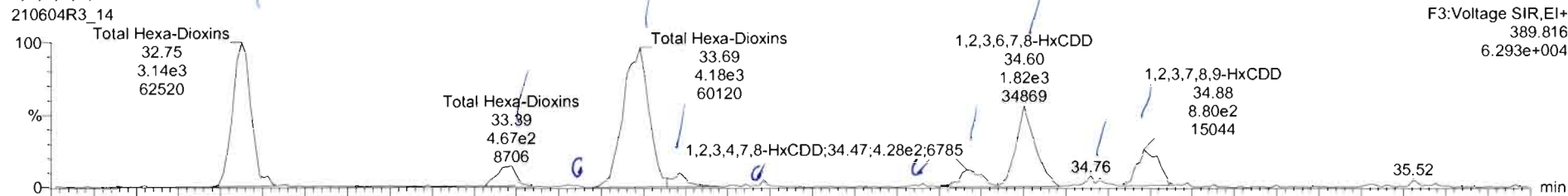


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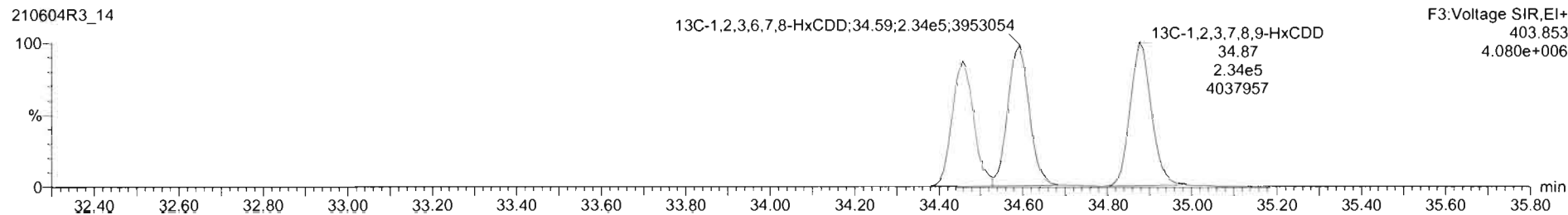
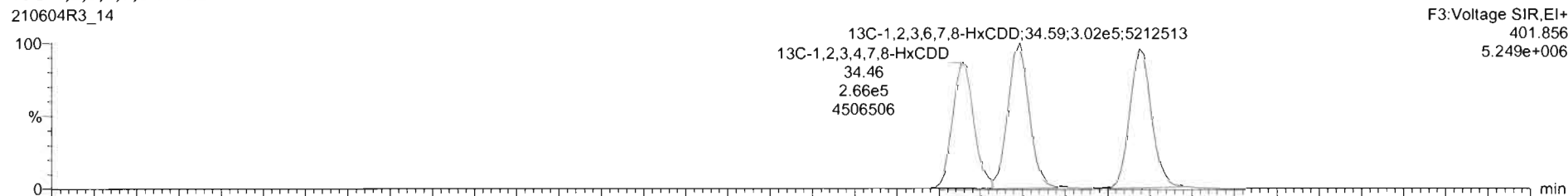
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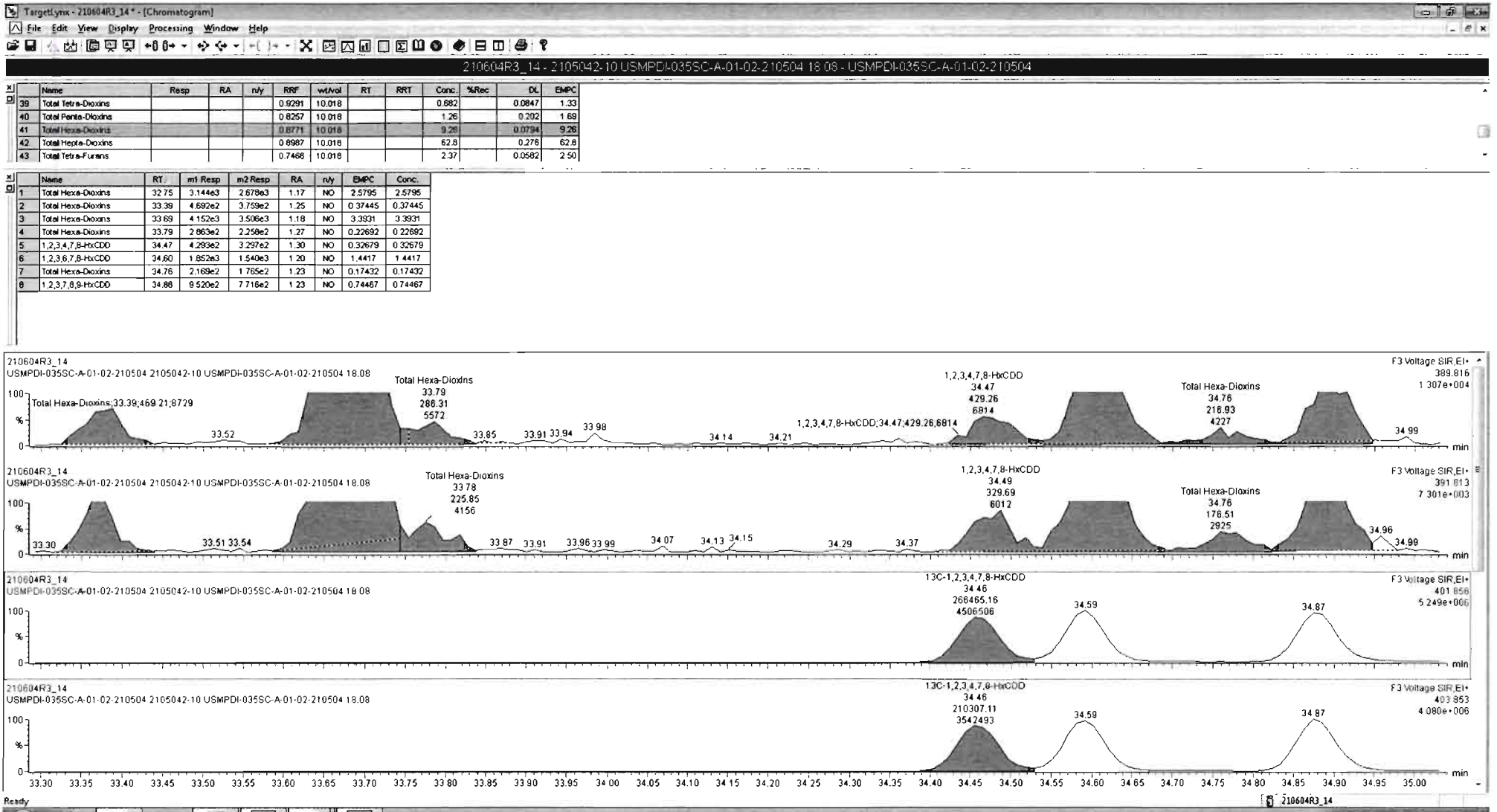
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1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD





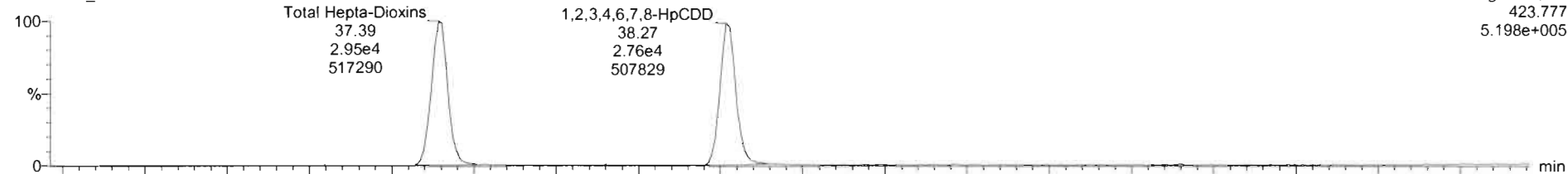
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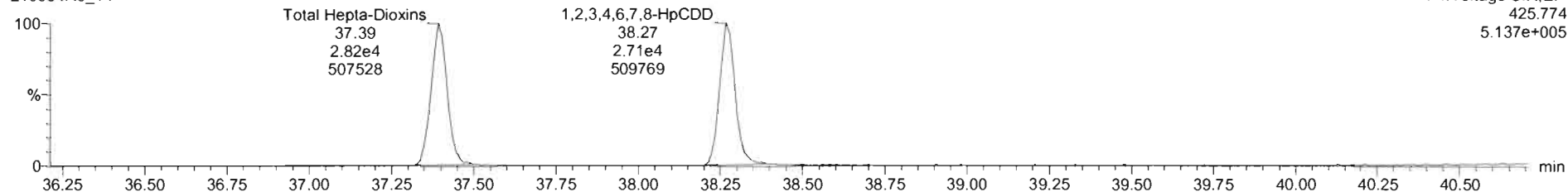
1,2,3,4,6,7,8-HpCDD

210604R3_14



F4:Voltage SIR,EI+
423.777
5.198e+005

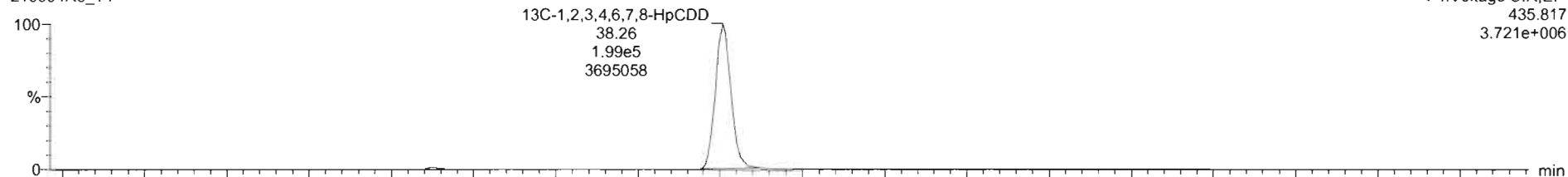
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F4:Voltage SIR,EI+
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5.137e+005

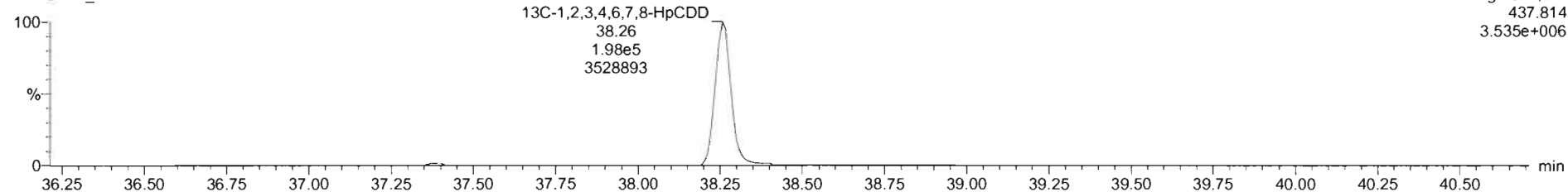
13C-1,2,3,4,6,7,8-HpCDD

210604R3_14



F4:Voltage SIR,EI+
435.817
3.721e+006

210604R3_14

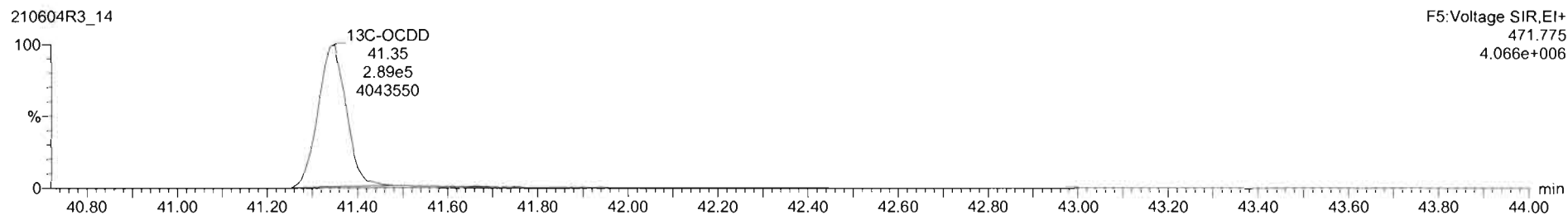
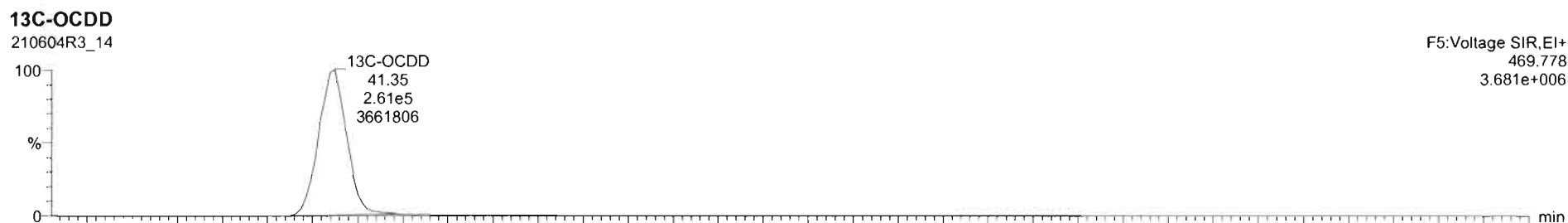
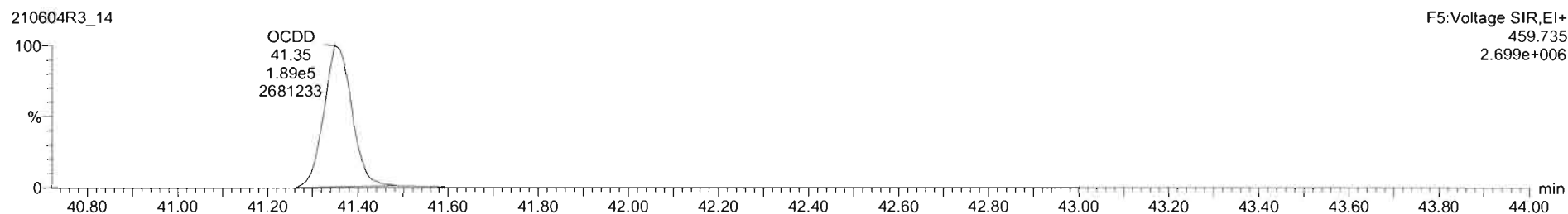
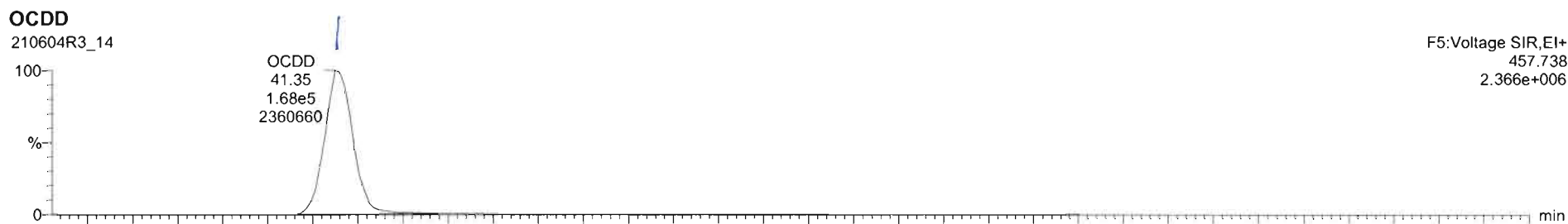


F4:Voltage SIR,EI+
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3.535e+006

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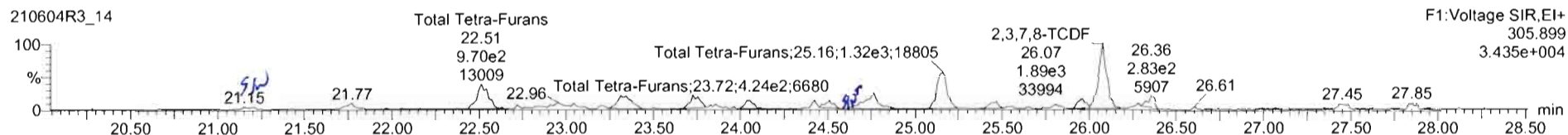
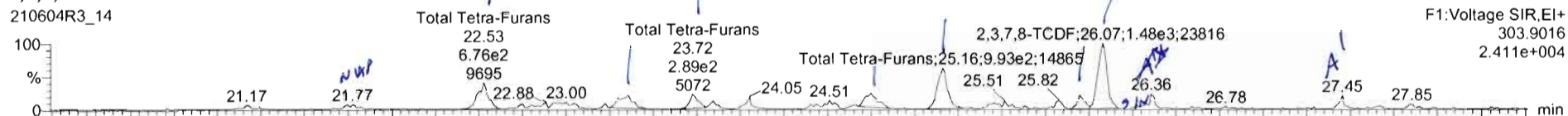


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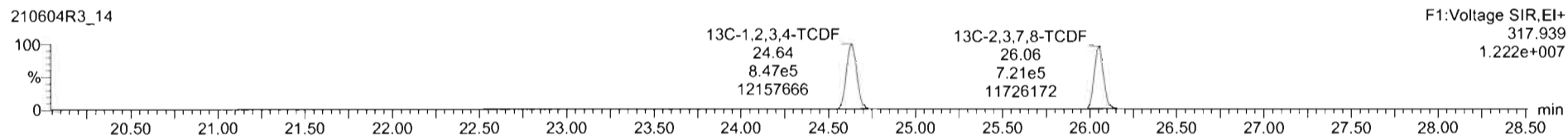
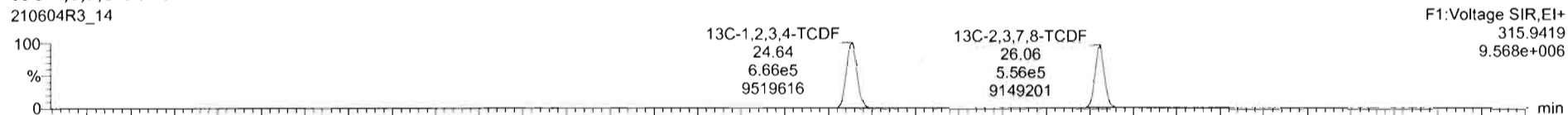
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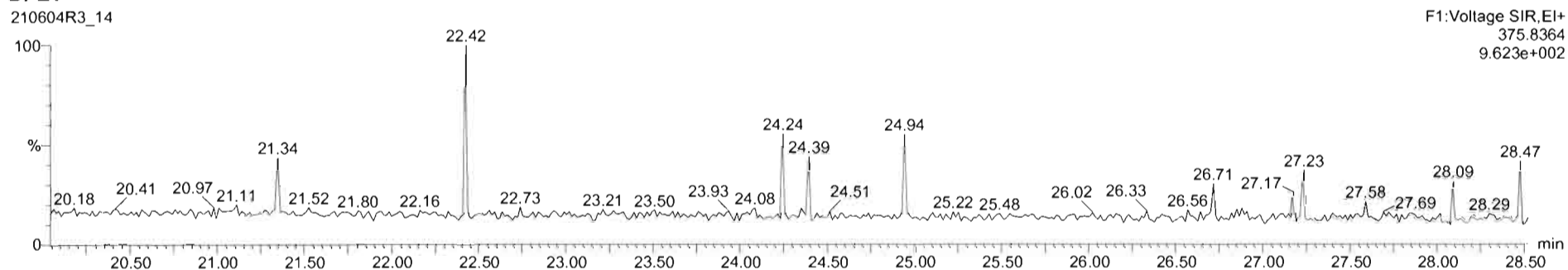
2,3,7,8-TCDF

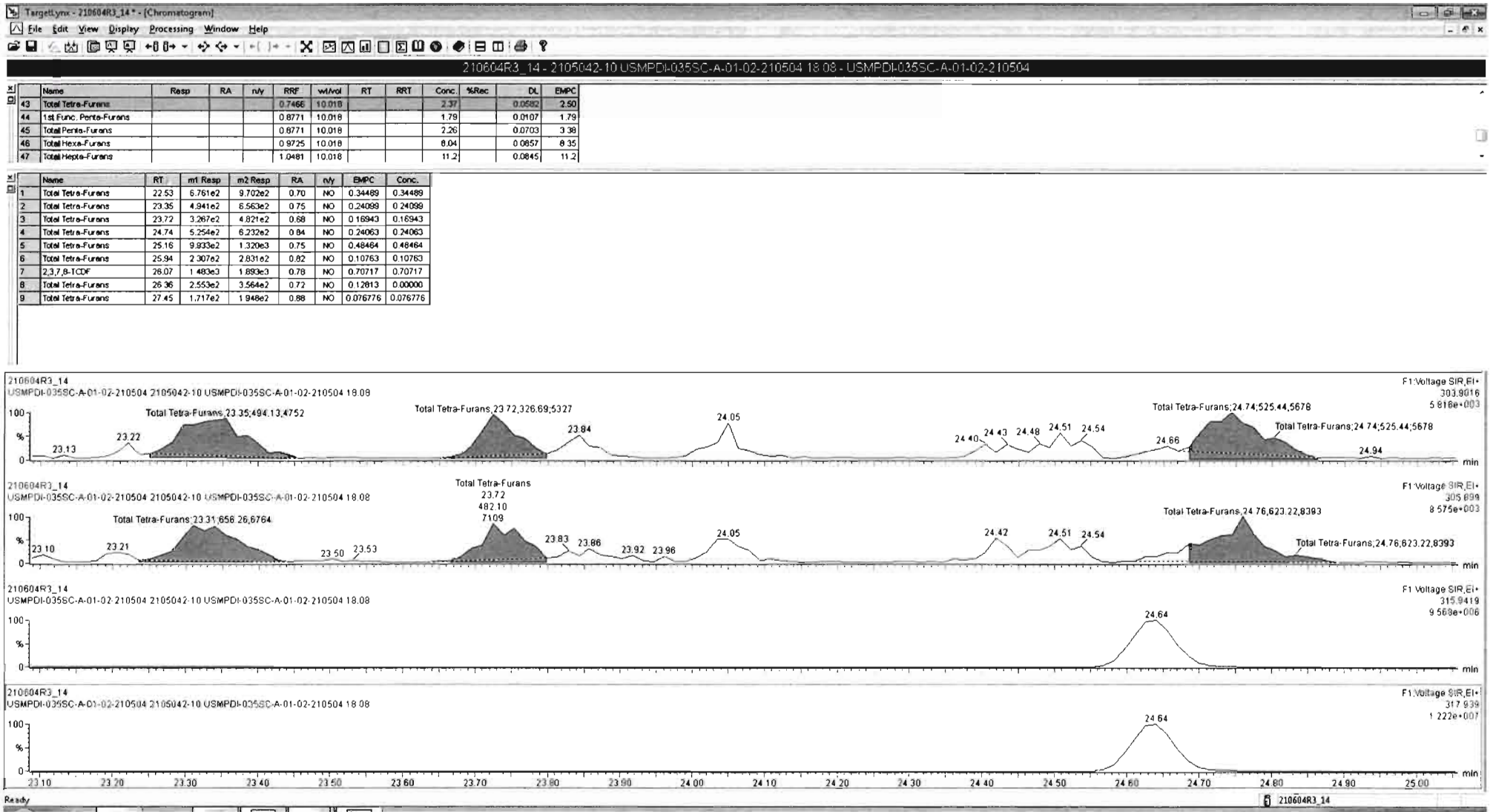


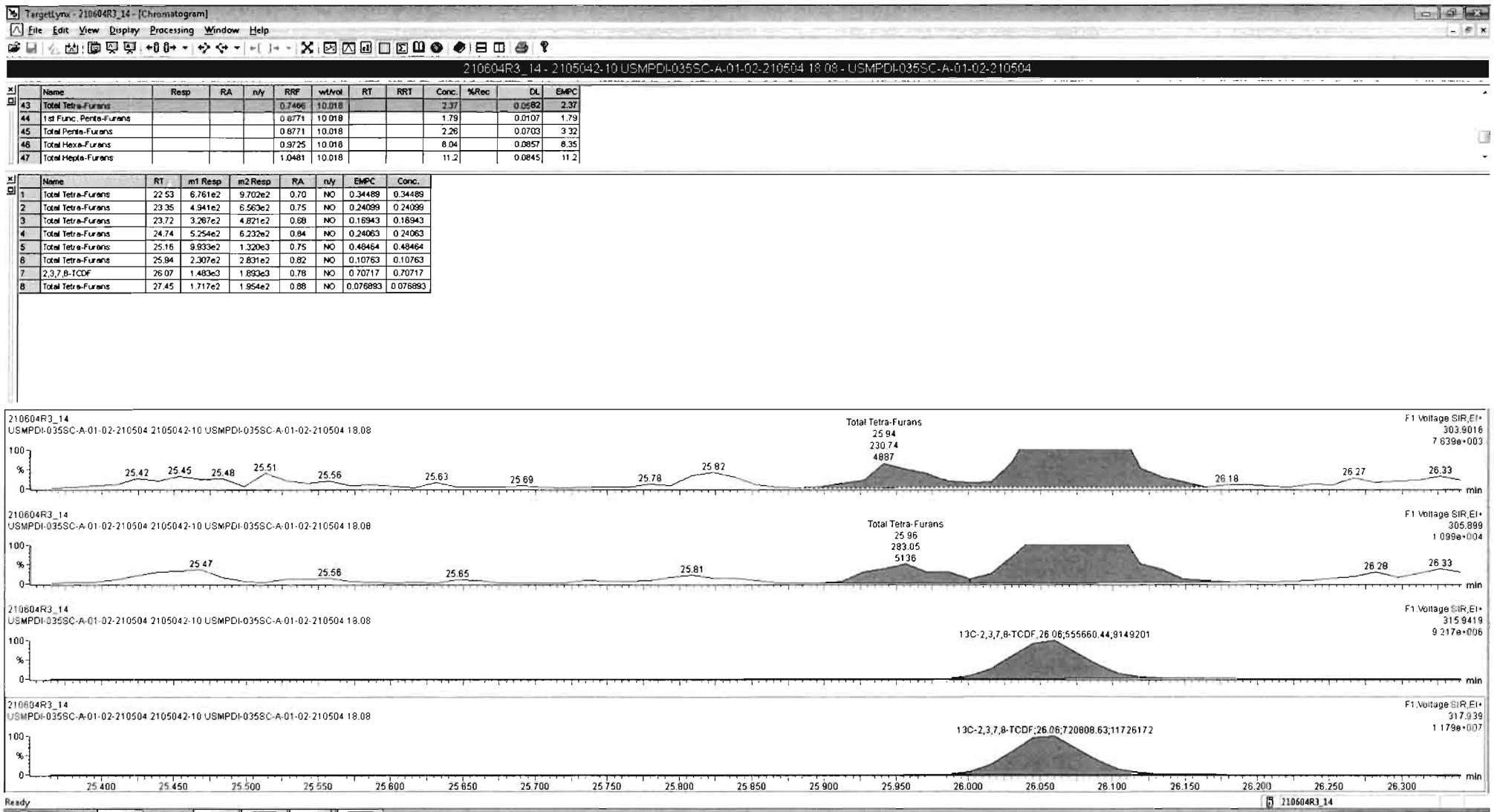
13C-2,3,7,8-TCDF



DPE1

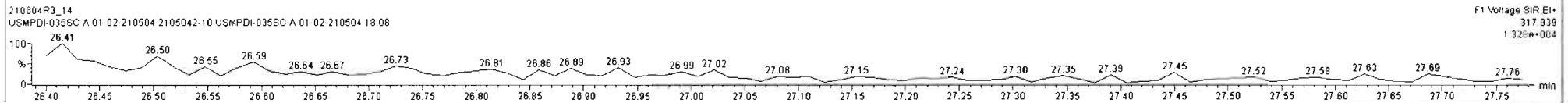
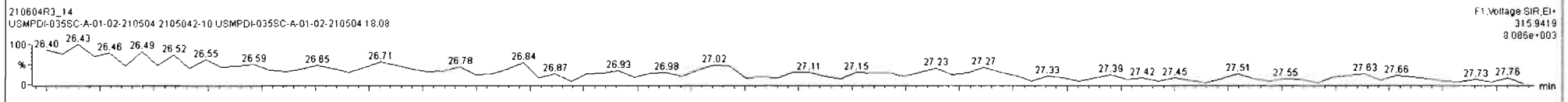
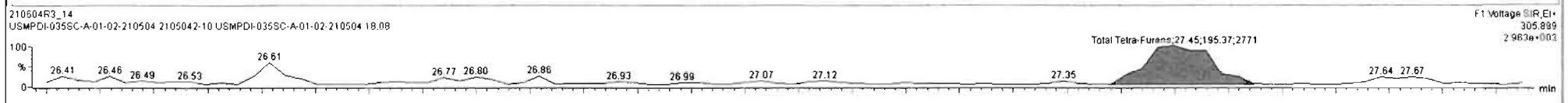
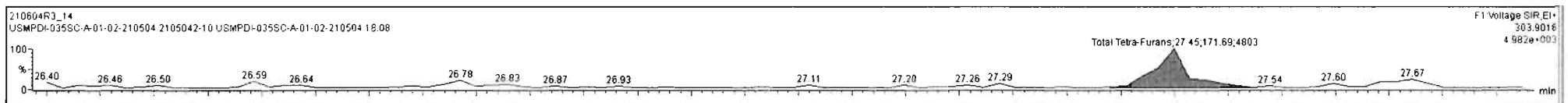






#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.018			2.37		0.0582	2.37
44	1st Func. Penta-Furans				0.8771	10.018			1.79		0.0107	1.79
45	Total Penta-Furans				0.8771	10.018			2.26		0.0703	3.32
46	Total Hexa-Furans				0.9725	10.018			8.04		0.0857	8.35
47	Total Hepta-Furans				1.0481	10.018			11.2		0.0845	11.2

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	22.53	6.781e2	9.702e2	0.70	NO	0.34489	0.34489
2	Total Tetra-Furans	23.35	4.941e2	6.563e2	0.75	NO	0.24069	0.24069
3	Total Tetra-Furans	23.72	3.267e2	4.821e2	0.68	NO	0.16943	0.16943
4	Total Tetra-Furans	24.74	5.254e2	6.232e2	0.84	NO	0.24063	0.24063
5	Total Tetra-Furans	25.16	9.933e2	1.320e3	0.75	NO	0.48464	0.48464
6	Total Tetra-Furans	25.94	2.307e2	2.831e2	0.82	NO	0.10763	0.10763
7	2,3,7,8-TCDF	26.07	1.483e3	1.893e3	0.78	NO	0.70717	0.70717
8	Total Tetra-Furans	27.45	1.717e2	1.954e2	0.88	NO	0.076893	0.076893



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_14.qld

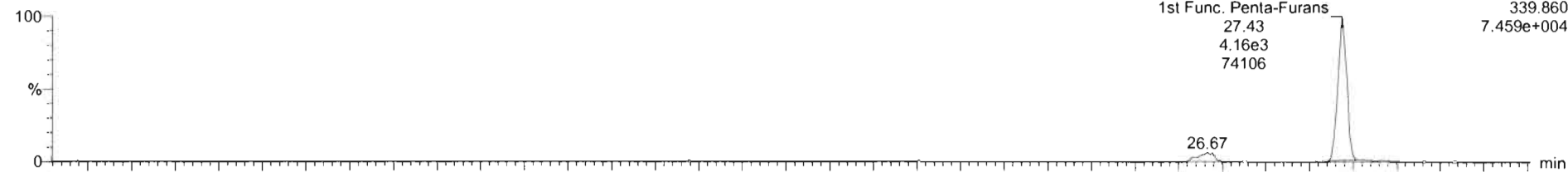
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Printed: Saturday, June 05, 2021 10:33:28 AM Pacific Daylight Time

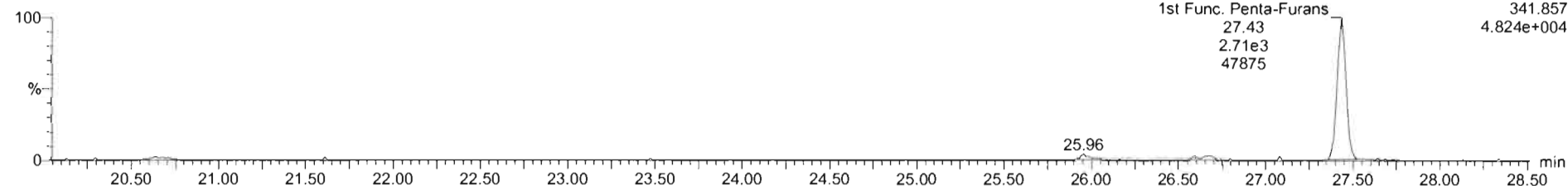
Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

1st Func. Penta-Furans

210604R3_14

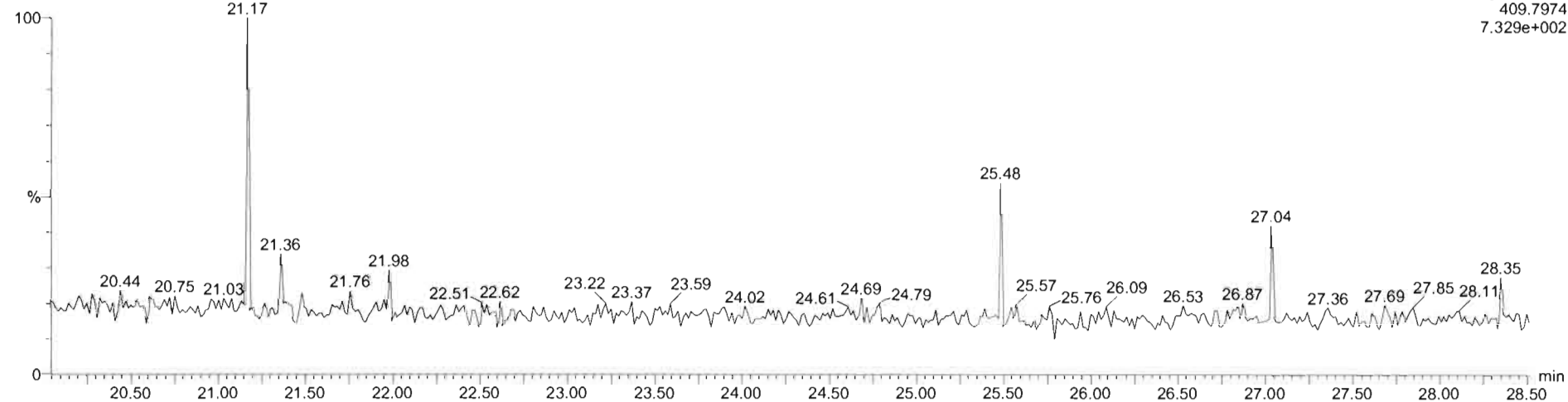


210604R3_14



DPE6

210604R3_14



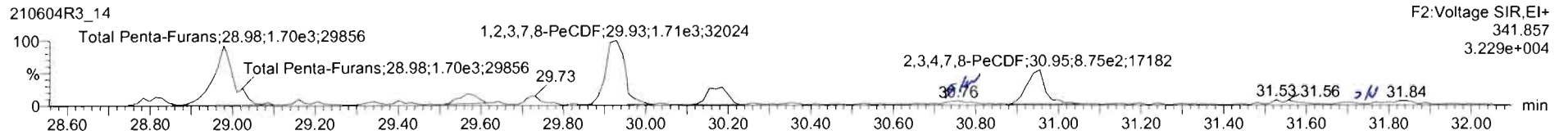
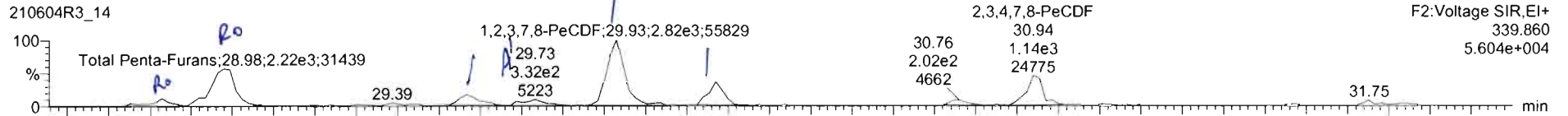
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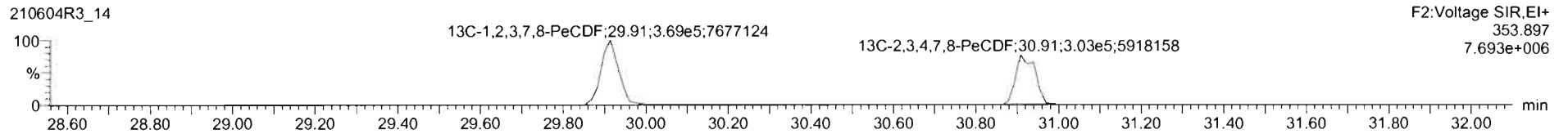
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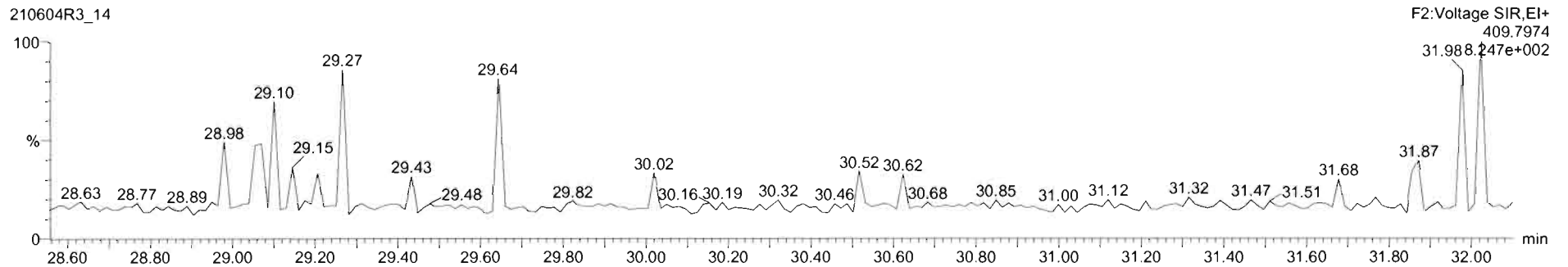
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



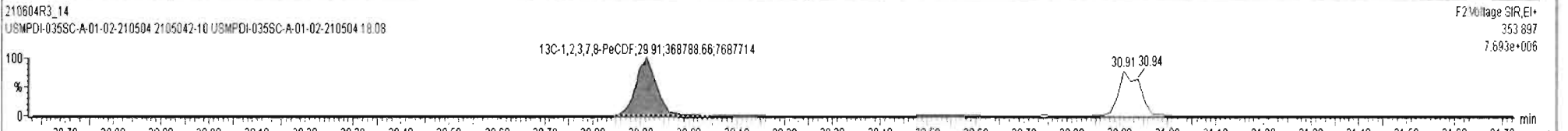
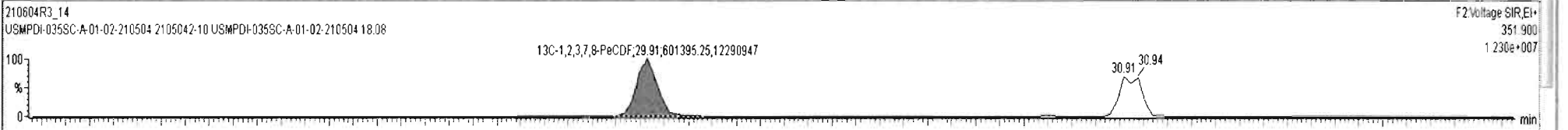
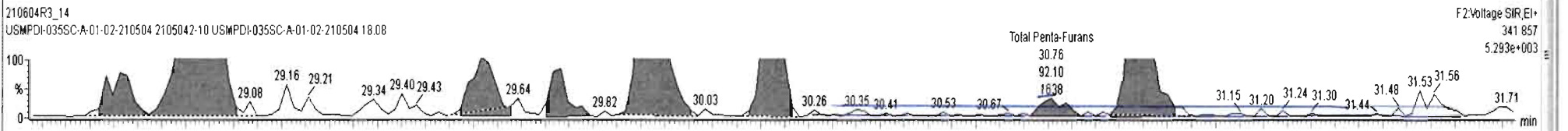
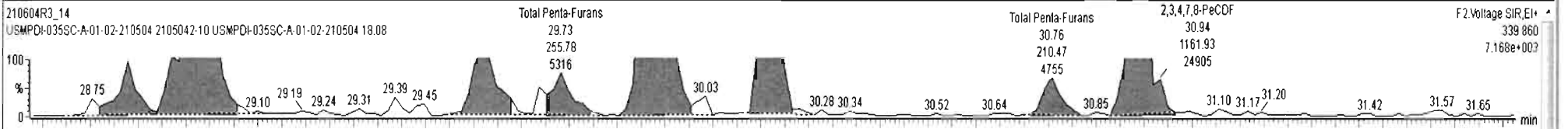
DPE2



210604R3_14 - 2105042-10 USMPDI-035SC-A-01-02-210504 18:08 - USMPDI-035SC-A-01-02-210504

Name	Resp	RA	n/y	RRF	wt/Yol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.018			2.37		0.0582	2.50
44 1st Func. Penta-Furans				0.8771	10.018			1.79		0.0107	1.79
45 Total Penta-Furans				0.8771	10.018			2.26		0.0703	3.38
46 Total Hexa-Furans				0.9725	10.018			8.04		0.0857	8.35
47 Total Hepta-Furans				1.0481	10.018			11.2		0.0845	11.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.83	2.997e2	2.349e2	1.28	YES	0.12624	0.00000
2 Total Penta-Furans	28.98	2.192e3	1.667e3	1.32	YES	0.93817	0.00000
3 Total Penta-Furans	29.57	4.882e2	3.114e2	1.57	NO	0.20798	0.20798
4 Total Penta-Furans	29.73	2.558e2	1.795e2	1.43	NO	0.11322	0.11322
5 1,2,3,7,8-PeCDF	29.93	2.748e3	1.710e3	1.61	NO	1.0458	1.0458
6 Total Penta-Furans	30.17	8.442e2	4.912e2	1.72	NO	0.34736	0.34736
7 Total Penta-Furans	30.76	2.105e2	9.210e1	2.29	YES	0.061091	0.00000
8 2,3,4,7,8-PeCDF	30.94	1.162e3	8.726e2	1.33	NO	0.54138	0.54138



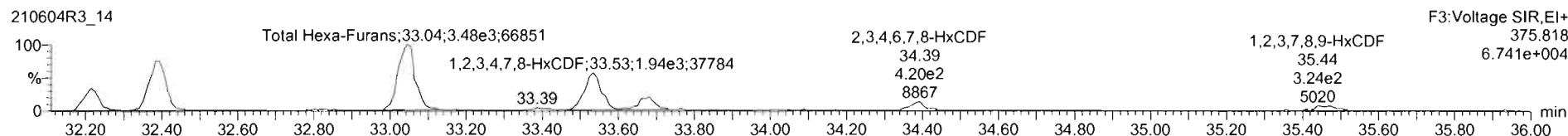
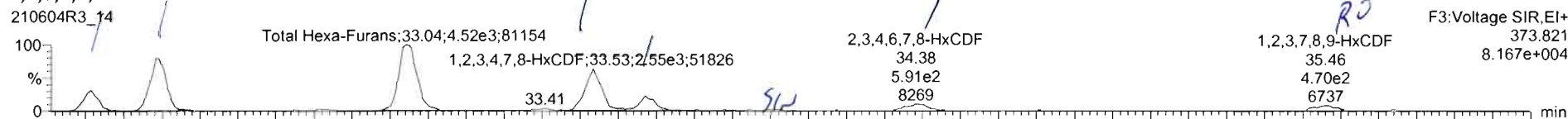
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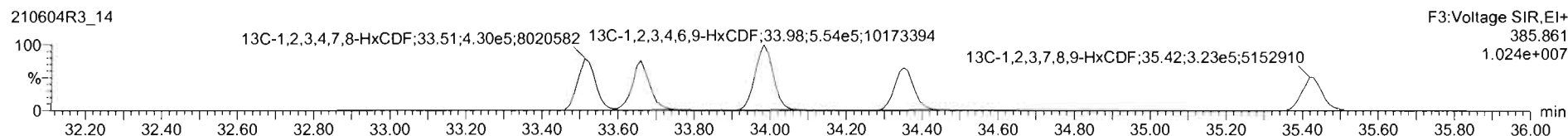
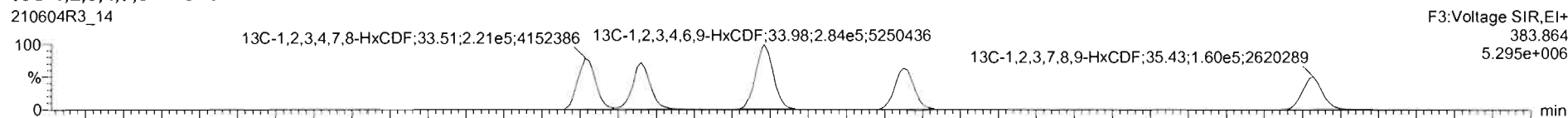
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Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

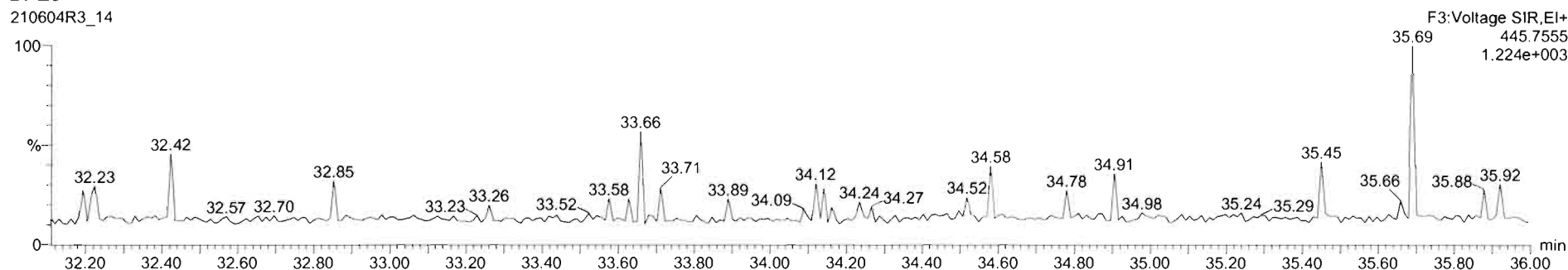
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF

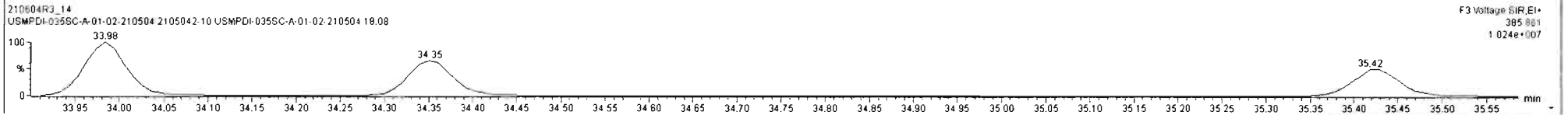
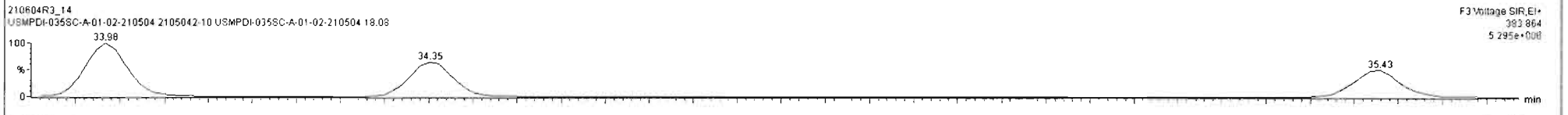
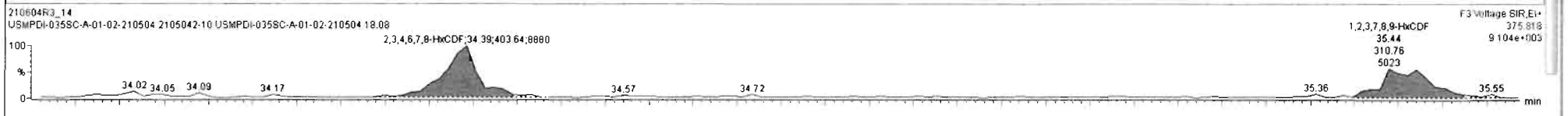
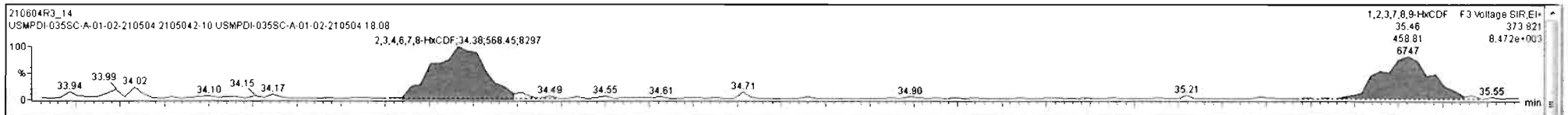


DPE3



Name	Resp	RA	nly	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.018			2.37		0.0582	2.50
44 1st Func. Penta-Furans				0.8771	10.018			1.79		0.0107	1.79
45 Total Penta-Furans				0.8771	10.018			2.26		0.0700	3.38
46 Total Hexa-Furans				0.9725	10.018			8.04		0.0657	8.35
47 Total Hepta-Furans				1.0481	10.018			11.2		0.0645	11.2

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.22	1.140e3	1.037e3	1.10	NO	0.77223	0.77223
2 Total Hexa-Furans	32.36	3.211e3	2.600e3	1.24	NO	2.0605	2.0605
3 Total Hexa-Furans	33.04	4.523e3	3.476e3	1.30	NO	2.8380	2.8380
4 1,2,3,4,7,8-HxCDF	33.53	2.554e3	1.941e3	1.32	NO	1.4974	1.4974
5 1,2,3,6,7,8-HxCDF	33.67	8.545e2	6.555e2	1.30	NO	0.53029	0.53029
6 2,3,4,6,7,8-HxCDF	34.36	5.685e2	4.038e2	1.41	NO	0.34694	0.34694
7 1,2,3,7,8-HxCDF	35.46	4.588e2	3.108e2	1.48	YES	0.30665	0.00000

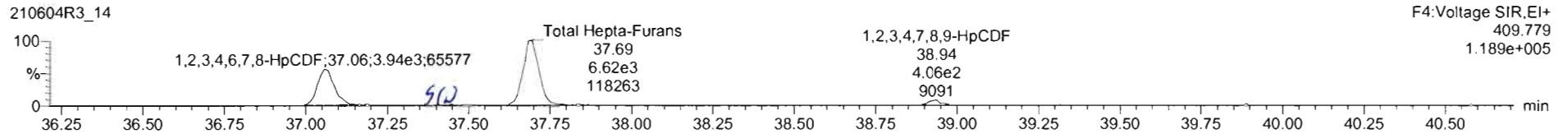
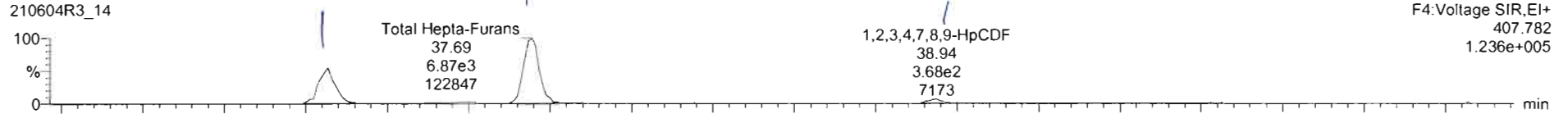


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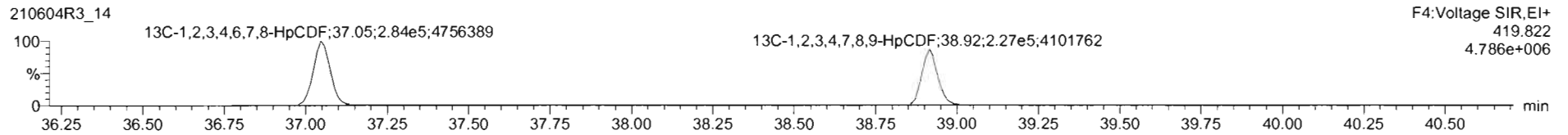
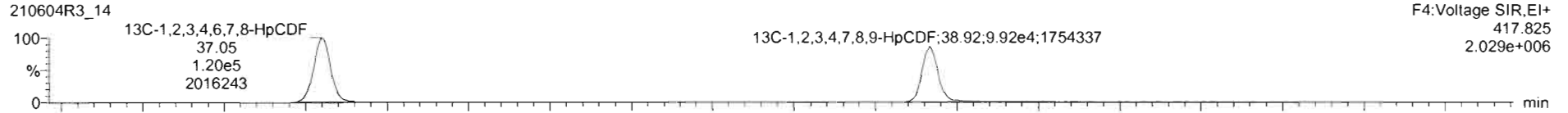
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Printed: Saturday, June 05, 2021 10:33:28 AM Pacific Daylight Time

Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

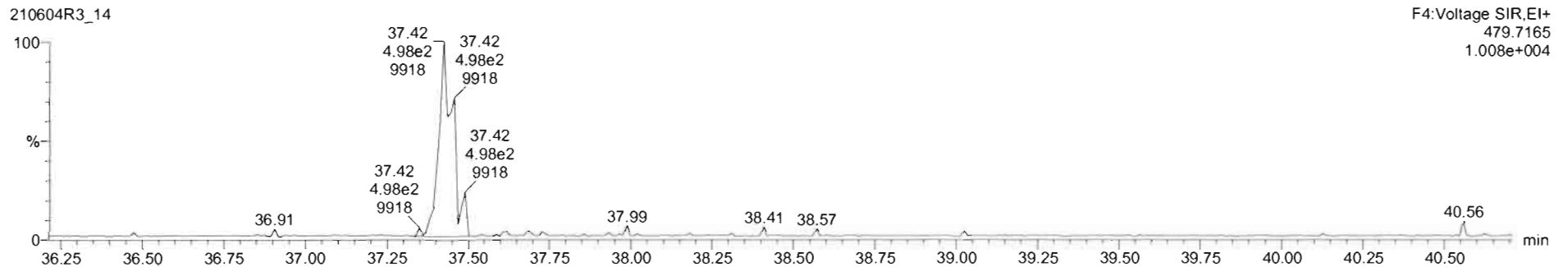
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



DPE4

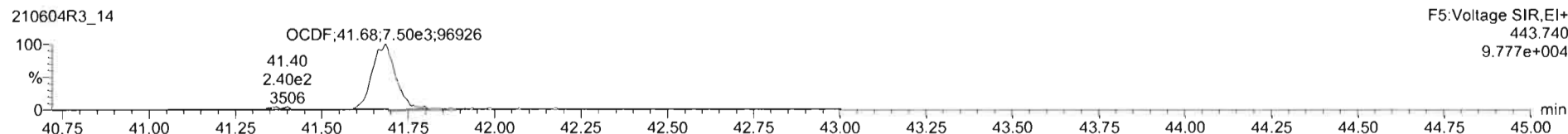
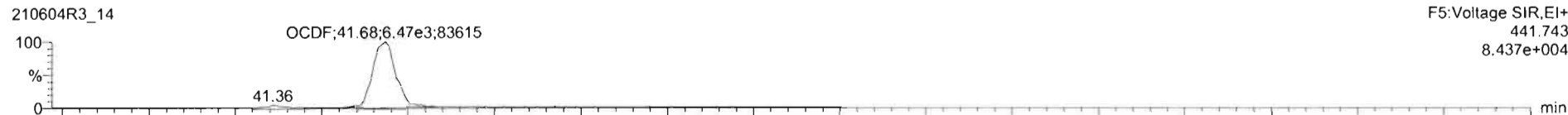


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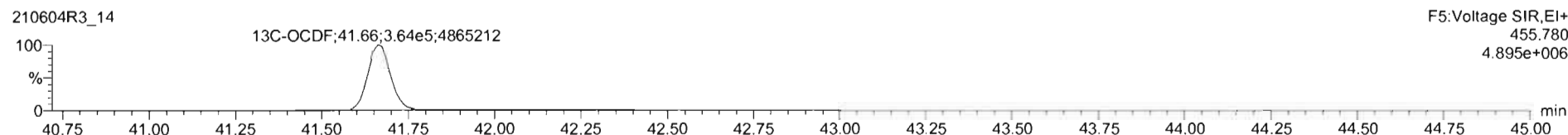
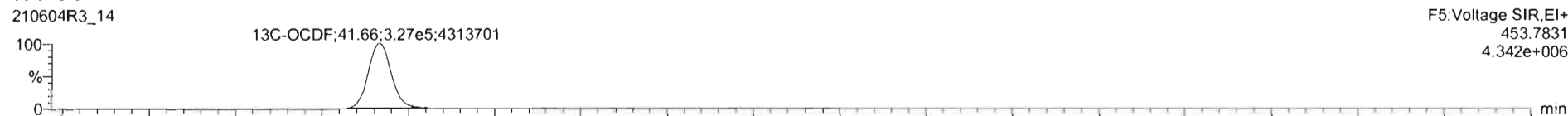
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Printed: Saturday, June 05, 2021 10:33:28 AM Pacific Daylight Time

Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504

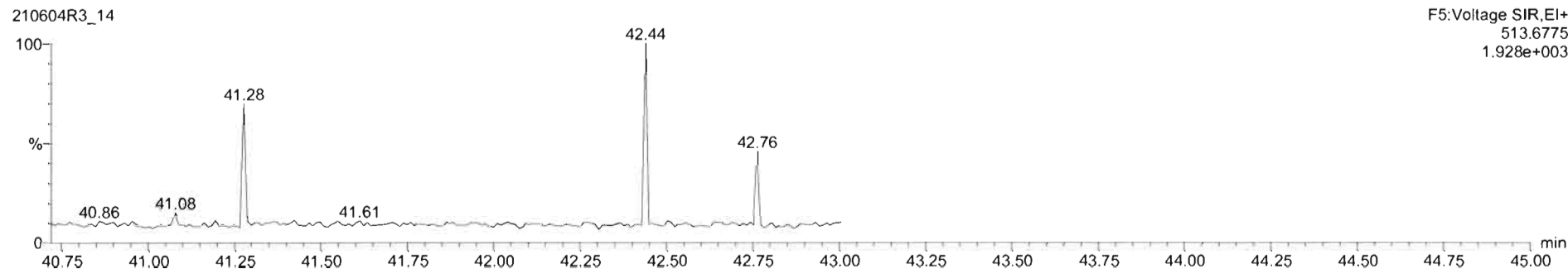
OCDF



13C-OCDF



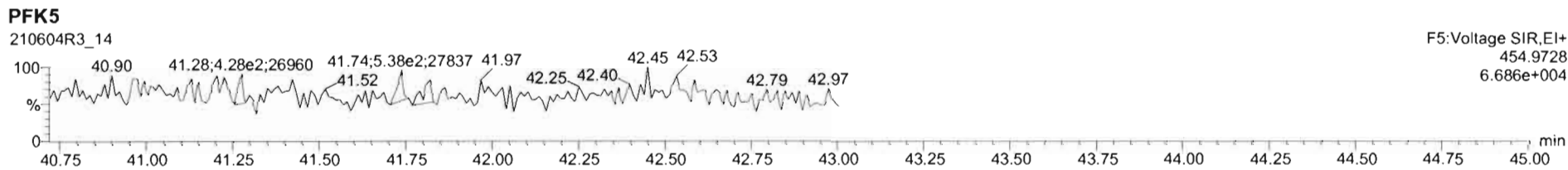
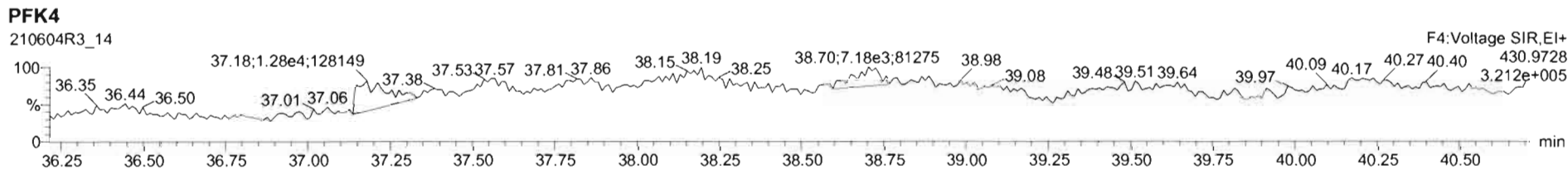
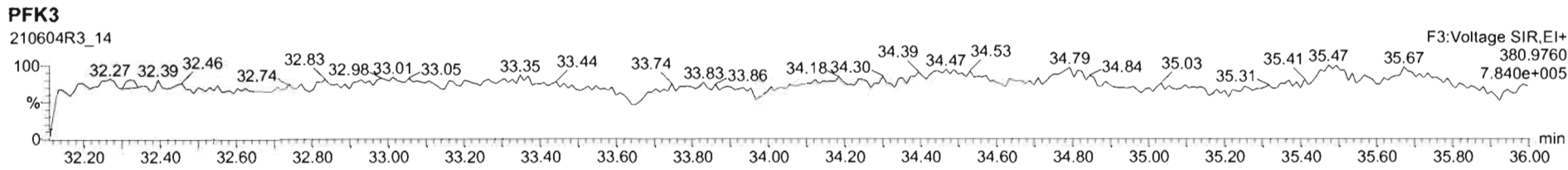
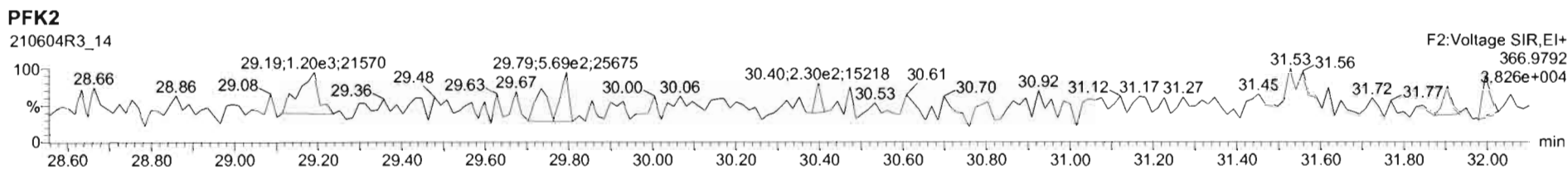
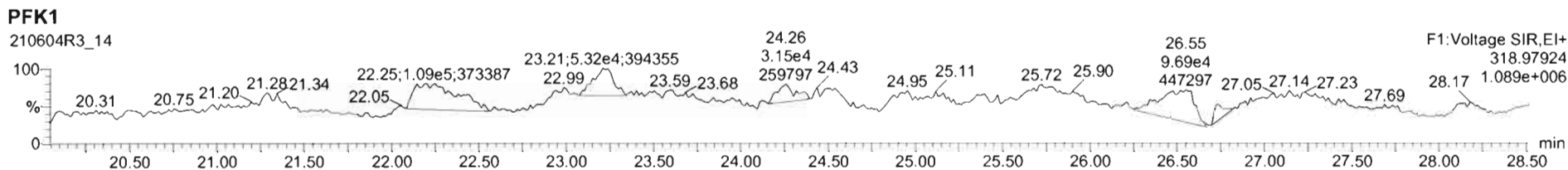
DPE5



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_14.qld

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Printed: Saturday, June 05, 2021 10:33:28 AM Pacific Daylight Time

Name: 210604R3_14, Date: 05-Jun-2021, Time: 07:32:20, ID: 2105042-10 USMPDI-035SC-A-01-02-210504 18.08, Description: USMPDI-035SC-A-01-02-210504



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_15.qld

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by 06-21-2021

CT 06/23/2021

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_15, Date: 05-Jun-2021, Time: 08:16:37, ID: 2105042-11 USMPDI-035SC-A-02-03-210504 18.13, Description: USMPDI-035SC-A-02-03-210504

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.34e3	0.37	YES	0.929	10.015	26.713	26.73	1.001	1.002	0.47835		0.0593	0.295
2	2 1,2,3,7,8-PeCDD	1.52e3	0.49	YES	0.826	10.015	31.136	31.10	1.001	1.000	0.47837		0.0870	0.407
3	3 1,2,3,4,7,8-HxCDD	1.71e3	1.27	NO	0.972	10.015	34.466	34.48	1.001	1.001	0.61265		0.0878	0.613
4	4 1,2,3,6,7,8-HxCDD	7.49e3	1.25	NO	0.877	10.015	34.602	34.59	1.001	1.000	2.6550		0.0889	2.66
5	5 1,2,3,7,8,9-HxCDD	3.79e3	1.18	NO	0.874	10.015	34.874	34.88	1.000	1.001	1.3336		0.0899	1.33
6	6 1,2,3,4,6,7,8-HpCDD	1.31e5	1.03	NO	0.899	10.015	38.289	38.29	1.000	1.000	63.551		0.361	63.6
7	7 OCDD	9.64e5	0.88	NO	0.852	10.015	41.356	41.36	1.000	1.000	634.85		0.699	635
8	8 2,3,7,8-TCDF	2.64e4	0.73	NO	0.747	10.015	26.063	26.09	1.000	1.001	4.5117		0.102	4.51
9	9 1,2,3,7,8-PeCDF	4.63e4	1.61	NO	0.877	10.015	29.917	29.91	1.000	1.000	11.288		0.257	11.3
10	10 2,3,4,7,8-PeCDF	2.01e4	1.60	NO	0.962	10.015	30.946	30.95	1.001	1.001	3.7048		0.224	3.70
11	11 1,2,3,4,7,8-HxCDF	1.23e5	1.23	NO	0.920	10.015	33.523	33.52	1.000	1.000	34.430		0.107	34.4
12	12 1,2,3,6,7,8-HxCDF	2.91e4	1.25	NO	0.936	10.015	33.669	33.67	1.001	1.001	7.4566		0.0995	7.46
13	13 2,3,4,6,7,8-HxCDF	5.66e3	1.16	NO	0.973	10.015	34.361	34.38	1.001	1.001	1.6761		0.120	1.68
14	14 1,2,3,7,8,9-HxCDF	5.12e3	1.13	NO	0.940	10.015	35.440	35.46	1.000	1.001	1.7770		0.153	1.78
15	15 1,2,3,4,6,7,8-HpCDF	3.00e4	0.99	NO	1.05	10.015	37.076	37.08	1.000	1.001	12.119		0.107	12.1
16	16 1,2,3,4,7,8,9-HpCDF	6.79e3	1.03	NO	1.05	10.015	38.950	38.95	1.000	1.000	3.2367		0.117	3.24
17	17 OCDF	4.00e4	0.84	NO	0.771	10.015	41.681	41.68	1.000	1.000	25.751		0.159	25.8
18	18 13C-2,3,7,8-TCDD	6.02e5	0.77	NO	1.10	10.015	26.670	26.68	1.027	1.027	108.64	54.4	0.115	
19	19 13C-1,2,3,7,8-PeCDD	7.70e5	0.67	NO	0.864	10.015	31.051	31.10	1.196	1.198	177.69	89.0	0.795	
20	20 13C-1,2,3,4,7,8-HxCDD	5.73e5	1.33	NO	0.746	10.015	34.443	34.44	1.014	1.014	178.16	89.2	0.319	
21	21 13C-1,2,3,6,7,8-HxCDD	6.43e5	1.30	NO	0.847	10.015	34.562	34.58	1.017	1.018	176.08	88.2	0.281	
22	22 13C-1,2,3,7,8,9-HxCDD	6.49e5	1.25	NO	0.868	10.015	34.861	34.86	1.026	1.026	173.51	86.9	0.274	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.60e5	1.05	NO	0.664	10.015	38.207	38.28	1.125	1.127	160.59	80.4	0.500	
24	24 13C-OCDD	7.11e5	0.90	NO	0.561	10.015	41.153	41.35	1.211	1.217	294.37	73.7	0.455	
25	25 13C-2,3,7,8-TCDF	1.57e6	0.78	NO	1.09	10.015	26.059	26.06	1.003	1.003	190.17	95.2	0.102	
26	26 13C-1,2,3,7,8-PeCDF	9.33e5	1.57	NO	0.809	10.015	29.781	29.91	1.147	1.152	152.91	76.6	0.647	
27	27 13C-2,3,4,7,8-PeCDF	1.13e6	1.60	NO	0.803	10.015	30.742	30.92	1.184	1.191	186.18	93.2	0.652	
28	28 13C-1,2,3,4,7,8-HxCDF	7.73e5	0.51	NO	1.01	10.015	33.515	33.51	0.987	0.986	177.42	88.8	0.365	
29	29 13C-1,2,3,6,7,8-HxCDF	8.33e5	0.50	NO	1.07	10.015	33.644	33.65	0.990	0.990	180.03	90.1	0.344	
30	30 13C-2,3,4,6,7,8-HxCDF	6.93e5	0.50	NO	0.910	10.015	34.334	34.34	1.011	1.011	176.78	88.5	0.406	
31	31 13C-1,2,3,7,8,9-HxCDF	6.13e5	0.50	NO	0.828	10.015	35.411	35.43	1.042	1.043	171.65	86.0	0.445	

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.71e5	0.43	NO	0.661	10.015	37.018	37.06	1.090	1.091	165.50	82.9	0.397	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.01e5	0.42	NO	0.566	10.015	38.778	38.94	1.141	1.146	164.42	82.3	0.464	
34	34 13C-OCDF	8.05e5	0.90	NO	0.663	10.015	41.540	41.67	1.223	1.227	282.10	70.6	0.416	
35	35 37Cl-2,3,7,8-TCDD	6.38e5			2.07	10.015	26.870	26.73	1.035	1.029	61.541	77.0	0.0442	
36	36 13C-1,2,3,4-TCDD	1.00e6	0.79	NO	1.00	10.015	26.070	25.97	1.000	1.000	199.71	100	0.127	
37	37 13C-1,2,3,4-TCDF	1.51e6	0.79	NO	1.00	10.015	24.760	24.64	1.000	1.000	199.71	100	0.112	
38	38 13C-1,2,3,4,6,9-HxCDF	8.61e5	0.50	NO	1.00	10.015	34.040	33.97	1.000	1.000	199.71	100	0.369	
39	39 Total Tetra-Dioxins				0.929	10.015	24.620		0.000		6.5122		0.0593	6.81
40	40 Total Penta-Dioxins				0.826	10.015	29.960		0.000		4.1259		0.0870	4.87
41	41 Total Hexa-Dioxins				0.877	10.015	33.635		0.000		23.123		0.0917	23.6
42	42 Total Hepta-Dioxins				0.899	10.015	37.640		0.000		141.37		0.361	141
43	43 Total Tetra-Furans				0.747	10.015	23.610		0.000		15.766		0.102	16.3
44	44 1st Func. Penta-Furans				0.877	10.015	27.620		0.000		6.4155		0.0131	6.42
45	45 Total Penta-Furans				0.877	10.015	29.275		0.000		27.115		0.251	27.4
46	46 Total Hexa-Furans				0.973	10.015	33.555		0.000		66.029		0.114	66.2
47	47 Total Hepta-Furans				1.05	10.015	37.835		0.000		36.929		0.111	36.9

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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
 Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_15, Date: 05-Jun-2021, Time: 08:16:37, ID: 2105042-11 USMPDI-035SC-A-02-03-210504 18.13, Description: USMPDI-035SC-A-02-03-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.28	2.196e4	2.824e4	1.671e3	2.218e3	0.75	NO	3.889e3	1.3894	1.3894	0.0593
2	Total Tetra-Dioxins	23.59	9.779e3	1.240e4	8.024e2	1.043e3	0.77	NO	1.845e3	0.65923	0.65923	0.0593
3	Total Tetra-Dioxins	24.06	6.775e3	7.829e3	4.427e2	5.078e2	0.87	NO	9.505e2	0.33961	0.33961	0.0593
4	Total Tetra-Dioxins	24.79	1.050e4	1.266e4	6.003e2	7.227e2	0.83	NO	1.323e3	0.47270	0.47270	0.0593
5	Total Tetra-Dioxins	25.00	6.349e3	6.366e3	3.747e2	4.496e2	0.83	NO	8.243e2	0.29451	0.29451	0.0593
6	Total Tetra-Dioxins	25.19	6.725e3	7.566e3	4.246e2	5.345e2	0.79	NO	9.592e2	0.34271	0.34271	0.0593
7	Total Tetra-Dioxins	25.37	2.604e3	2.489e3	1.581e2	1.846e2	0.86	NO	3.427e2	0.12244	0.12244	0.0593
8	Total Tetra-Dioxins	25.65	2.386e3	4.533e3	1.676e2	2.496e2	0.67	NO	4.172e2	0.14905	0.14905	0.0593
9	Total Tetra-Dioxins	25.72	3.774e3	5.915e3	2.054e2	2.727e2	0.75	NO	4.781e2	0.17081	0.17081	0.0593
10	Total Tetra-Dioxins	26.00	1.299e3	1.917e3	6.666e1	8.785e1	0.76	NO	1.545e2	0.055206	0.055206	0.0593
11	Total Tetra-Dioxins	26.44	4.060e4	5.112e4	2.782e3	3.505e3	0.79	NO	6.286e3	2.2460	2.2460	0.0593
12	2,3,7,8-TCDD	26.73	5.396e3	1.471e4	3.597e2	9.791e2	0.37	YES	1.339e3	0.00000	0.29542	0.0593
13	Total Tetra-Dioxins	27.02	4.223e3	4.187e3	2.173e2	2.709e2	0.80	NO	4.882e2	0.17444	0.17444	0.0593
14	Total Tetra-Dioxins	27.52	2.257e3	2.721e3	1.165e2	1.524e2	0.76	NO	2.690e2	0.096097	0.096097	0.0593

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.95	2.936e4	4.692e4	1.844e3	3.180e3	0.58	NO	5.024e3	1.5788	1.5788	0.0870
2	Total Penta-Dioxins	29.40	1.485e4	1.878e4	7.741e2	1.131e3	0.68	NO	1.905e3	0.59863	0.59863	0.0870
3	Total Penta-Dioxins	29.91	1.193e4	2.213e4	6.765e2	1.017e3	0.67	NO	1.693e3	0.53201	0.53201	0.0870
4	Total Penta-Dioxins	30.07	1.141e4	1.739e4	6.138e2	1.065e3	0.58	NO	1.679e3	0.52746	0.52746	0.0870
5	Total Penta-Dioxins	30.13	1.012e4	1.100e4	3.547e2	4.311e2	0.82	YES	0.000e0	0.00000	0.22083	0.0870
6	Total Penta-Dioxins	30.35	1.392e4	2.151e4	8.868e2	1.334e3	0.66	NO	2.221e3	0.69798	0.69798	0.0870
7	Total Penta-Dioxins	30.67	3.818e3	5.842e3	1.954e2	2.244e2	0.87	YES	0.000e0	0.00000	0.11495	0.0870
8	1,2,3,7,8-PeCDD	31.10	1.182e4	2.103e4	5.006e2	1.022e3	0.49	YES	1.522e3	0.00000	0.40696	0.0870
9	Total Penta-Dioxins	31.47	5.559e3	8.081e3	2.401e2	3.678e2	0.65	NO	6.080e2	0.19104	0.19104	0.0870

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.74	2.535e5	1.961e5	1.179e4	9.171e3	1.29	NO	2.096e4	7.6784	7.6784	0.0917
2	Total Hexa-Dioxins	33.37	3.387e4	2.562e4	1.589e3	1.258e3	1.26	NO	2.847e3	1.0430	1.0430	0.0917
3	Total Hexa-Dioxins	33.68	2.011e5	1.561e5	1.432e4	1.141e4	1.25	NO	2.573e4	9.4266	9.4266	0.0917
4	Total Hexa-Dioxins	33.79	1.578e4	1.233e4	8.064e2	5.372e2	1.50	YES	0.000e0	0.00000	0.44082	0.0917
5	1,2,3,4,7,8-HxCDD	34.48	1.629e4	1.514e4	9.557e2	7.533e2	1.27	NO	1.709e3	0.61265	0.61265	0.0878
6	1,2,3,6,7,8-HxCDD	34.59	7.068e4	6.093e4	4.167e3	3.326e3	1.25	NO	7.492e3	2.6550	2.6550	0.0889
7	Total Hexa-Dioxins	34.78	1.036e4	7.520e3	5.826e2	4.375e2	1.33	NO	1.020e3	0.37373	0.37373	0.0917
8	1,2,3,7,8,9-HxCDD	34.88	3.469e4	2.664e4	2.052e3	1.737e3	1.18	NO	3.789e3	1.3336	1.3336	0.0899

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.40	1.487e6	1.425e6	8.200e4	7.895e4	1.04	NO	1.610e5	77.820	77.820	0.361
2	1,2,3,4,6,7,8-HpCDD	38.29	1.214e6	1.178e6	6.683e4	6.462e4	1.03	NO	1.314e5	63.551	63.551	0.361

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.18	4.734e3	8.462e3	4.311e2	5.494e2	0.78	NO	9.805e2	0.16734	0.16734	0.102
2	Total Tetra-Furans	21.77	1.003e4	1.108e4	6.355e2	8.885e2	0.72	NO	1.524e3	0.26010	0.26010	0.102
3	Total Tetra-Furans	22.53	4.094e4	5.128e4	3.402e3	4.354e3	0.78	NO	7.756e3	1.3238	1.3238	0.102
4	Total Tetra-Furans	22.85	5.605e3	6.062e3	3.329e2	4.115e2	0.81	NO	7.445e2	0.12706	0.12706	0.102
5	Total Tetra-Furans	22.97	1.148e4	1.418e4	1.208e3	1.389e3	0.87	NO	2.597e3	0.44325	0.44325	0.102
6	Total Tetra-Furans	23.04	6.426e3	9.453e3	3.830e2	5.022e2	0.76	NO	8.853e2	0.15109	0.15109	0.102
7	Total Tetra-Furans	23.34	3.243e4	5.017e4	3.174e3	4.714e3	0.67	NO	7.888e3	1.3462	1.3462	0.102
8	Total Tetra-Furans	23.74	2.257e4	3.083e4	1.735e3	2.323e3	0.75	NO	4.058e3	0.69258	0.69258	0.102
9	Total Tetra-Furans	23.87	9.290e3	1.138e4	6.358e2	7.923e2	0.80	NO	1.428e3	0.24374	0.24374	0.102
10	Total Tetra-Furans	24.05	1.544e4	1.855e4	1.093e3	1.369e3	0.80	NO	2.462e3	0.42015	0.42015	0.102
11	Total Tetra-Furans	24.42	5.069e3	6.578e3	3.152e2	4.421e2	0.71	NO	7.573e2	0.12926	0.12926	0.102
12	Total Tetra-Furans	24.49	8.516e3	1.084e4	6.052e2	7.453e2	0.81	NO	1.351e3	0.23050	0.23050	0.102
13	Total Tetra-Furans	24.66	4.724e3	1.014e4	1.944e2	3.337e2	0.58	YES	0.000e0	0.00000	0.076275	0.102
14	Total Tetra-Furans	24.76	2.600e4	3.950e4	2.636e3	3.765e3	0.70	NO	6.402e3	1.0926	1.0926	0.102
15	Total Tetra-Furans	25.16	1.078e5	1.588e5	7.373e3	1.020e4	0.72	NO	1.758e4	3.0000	3.0000	0.102
16	Total Tetra-Furans	25.45	1.188e4	1.624e4	5.415e2	9.619e2	0.56	YES	0.000e0	0.00000	0.21243	0.102
17	Total Tetra-Furans	25.54	4.114e3	4.683e3	2.404e2	2.713e2	0.89	YES	0.000e0	0.00000	0.081968	0.102
18	Total Tetra-Furans	25.82	7.395e3	8.893e3	4.231e2	4.686e2	0.90	YES	0.000e0	0.00000	0.14155	0.102
19	Total Tetra-Furans	25.97	1.890e4	2.607e4	1.260e3	1.687e3	0.75	NO	2.947e3	0.50303	0.50303	0.102
20	2,3,7,8-TCDF	26.09	1.761e5	2.392e5	1.114e4	1.529e4	0.73	NO	2.643e4	4.5117	4.5117	0.102
21	Total Tetra-Furans	26.34	1.478e4	2.188e4	1.349e3	1.879e3	0.72	NO	3.228e3	0.55087	0.55087	0.102
22	Total Tetra-Furans	26.62	4.114e3	4.839e3	2.199e2	2.729e2	0.81	NO	4.928e2	0.084107	0.084107	0.102
23	Total Tetra-Furans	27.45	1.024e4	1.236e4	5.728e2	8.315e2	0.69	NO	1.404e3	0.23968	0.23968	0.102
24	Total Tetra-Furans	27.66	4.636e3	3.376e3	2.824e2	1.756e2	1.61	YES	0.000e0	0.00000	0.053044	0.102
25	Total Tetra-Furans	27.86	1.267e4	1.587e4	5.937e2	8.656e2	0.69	NO	1.459e3	0.24906	0.24906	0.102

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	3.049e5	1.933e5	1.805e4	1.098e4	1.64	NO	2.903e4	6.4155	6.4155	0.0131

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.83	2.047e4	1.184e4	1.346e3	8.421e2	1.60	NO	2.188e3	0.48353	0.48353	0.251
2	Total Penta-Furans	28.98	3.274e5	2.122e5	1.960e4	1.267e4	1.55	NO	3.227e4	7.1306	7.1306	0.251
3	Total Penta-Furans	29.55	3.284e4	2.347e4	1.104e3	7.899e2	1.40	NO	1.894e3	0.41862	0.41862	0.251
4	Total Penta-Furans	29.61	1.482e4	1.463e4	6.676e2	5.443e2	1.23	YES	0.000e0	0.00000	0.24273	0.251
5	Total Penta-Furans	29.72	3.130e4	1.875e4	1.043e3	7.761e2	1.34	NO	1.819e3	0.40198	0.40198	0.251
6	1,2,3,7,8-PeCDF	29.91	6.483e5	4.051e5	2.856e4	1.770e4	1.61	NO	4.627e4	11.288	11.288	0.257
7	Total Penta-Furans	30.02	1.199e4	1.006e4	6.192e2	3.573e2	1.73	NO	9.765e2	0.21580	0.21580	0.251
8	Total Penta-Furans	30.17	1.856e5	1.102e5	9.036e3	5.747e3	1.57	NO	1.478e4	3.2670	3.2670	0.251
9	Total Penta-Furans	30.76	1.064e4	6.813e3	5.868e2	3.401e2	1.73	NO	9.269e2	0.20484	0.20484	0.251
10	2,3,4,7,8-PeCDF	30.95	2.336e5	1.555e5	1.238e4	7.737e3	1.60	NO	2.012e4	3.7048	3.7048	0.224

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.22	6.840e4	6.296e4	3.170e3	2.622e3	1.21	NO	5.792e3	1.6340	1.6340	0.114
2	Total Hexa-Furans	32.38	2.802e5	2.235e5	1.323e4	1.062e4	1.25	NO	2.385e4	6.7283	6.7283	0.114
3	Total Hexa-Furans	32.79	5.685e3	4.948e3	3.273e2	2.883e2	1.14	NO	6.156e2	0.17368	0.17368	0.114
4	Total Hexa-Furans	33.03	4.315e5	3.459e5	2.134e4	1.735e4	1.23	NO	3.869e4	10.914	10.914	0.114
5	Total Hexa-Furans	33.40	7.589e3	8.989e3	3.920e2	3.840e2	1.02	YES	0.000e0	0.00000	0.19977	0.114
6	1,2,3,4,7,8-HxCDF	33.52	1.340e6	1.062e6	6.769e4	5.496e4	1.23	NO	1.226e5	34.430	34.430	0.107
7	1,2,3,6,7,8-HxCDF	33.67	2.953e5	2.316e5	1.619e4	1.292e4	1.25	NO	2.911e4	7.4566	7.4566	0.0995
8	2,3,4,6,7,8-HxCDF	34.38	4.482e4	3.630e4	3.033e3	2.622e3	1.16	NO	5.655e3	1.6761	1.6761	0.120
9	1,2,3,7,8,9-HxCDF	35.46	7.553e4	7.107e4	2.717e3	2.406e3	1.13	NO	5.123e3	1.7770	1.7770	0.153
10	Total Hexa-Furans	35.47	7.185e4	7.102e4	2.367e3	2.027e3	1.17	NO	4.393e3	1.2393	1.2393	0.114

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.08	2.494e5	2.470e5	1.494e4	1.503e4	0.99	NO	2.998e4	12.119	12.119	0.107
2	Total Hepta-Furans	37.69	4.499e5	4.670e5	2.477e4	2.461e4	1.01	NO	4.938e4	21.574	21.574	0.111
3	1,2,3,4,7,8,9-HpCDF	38.95	6.337e4	6.520e4	3.450e3	3.342e3	1.03	NO	6.792e3	3.2367	3.2367	0.117

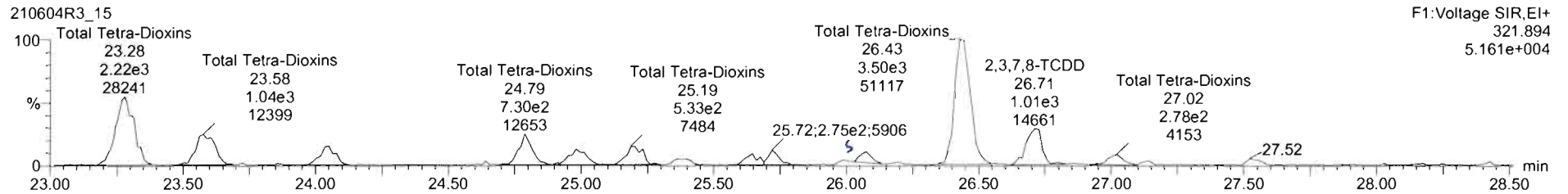
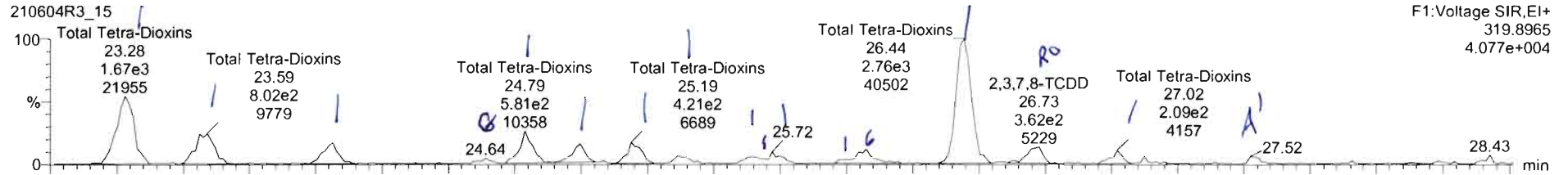
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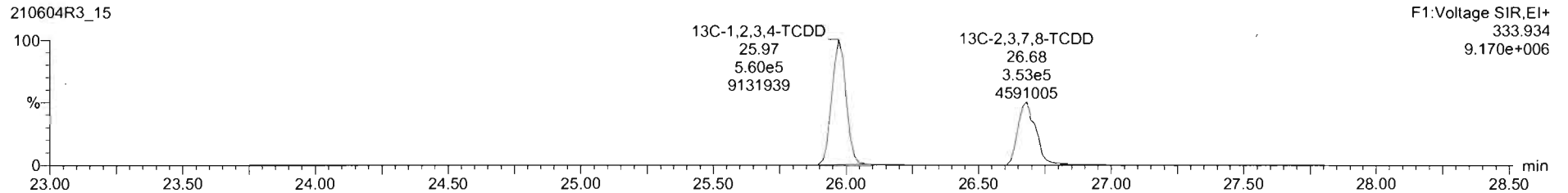
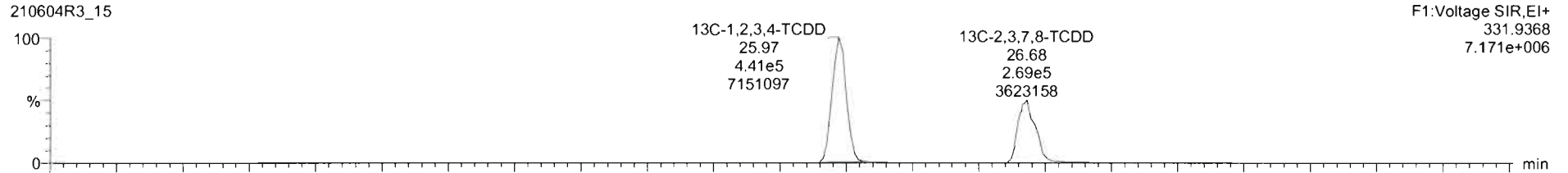
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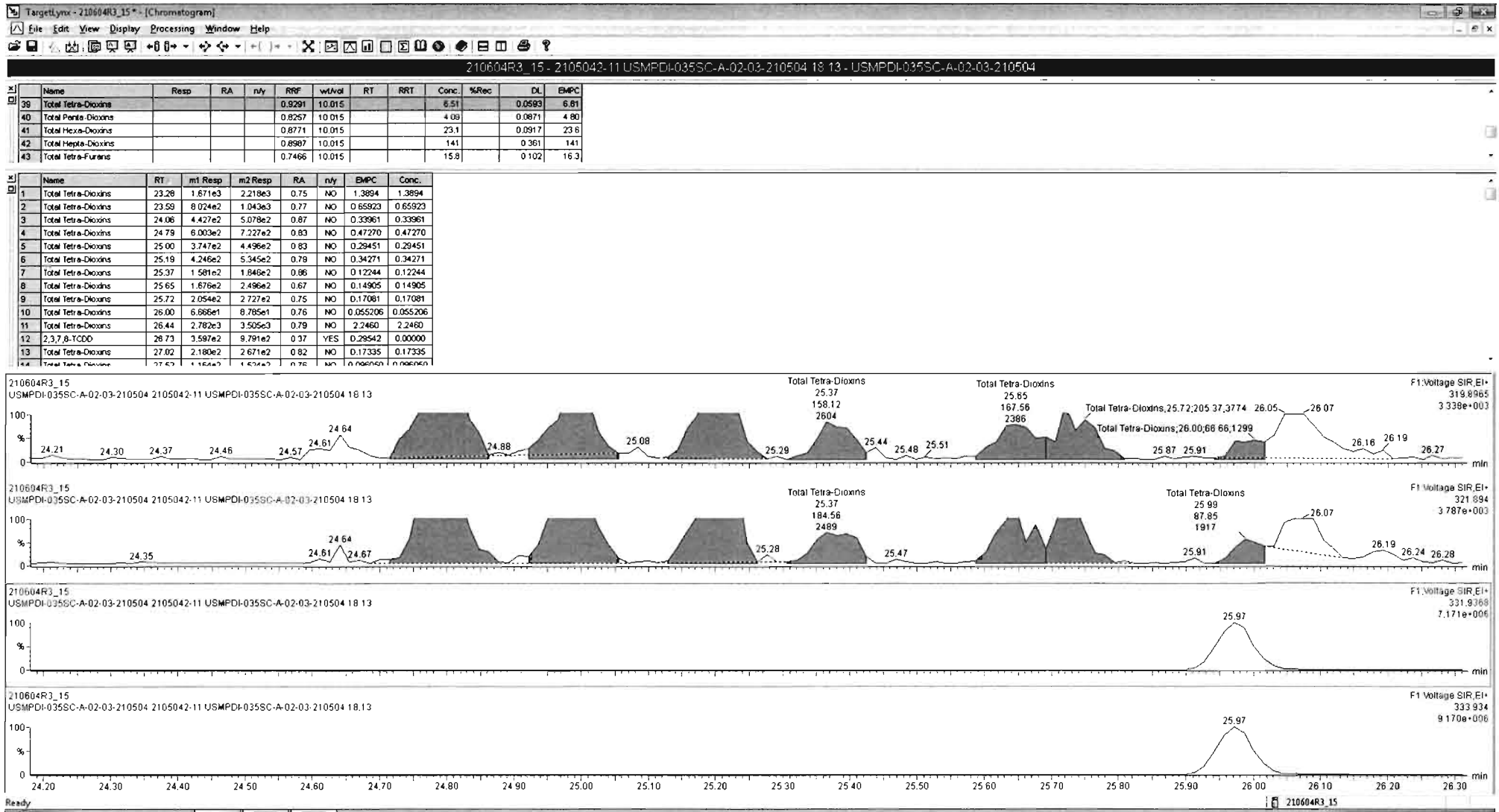
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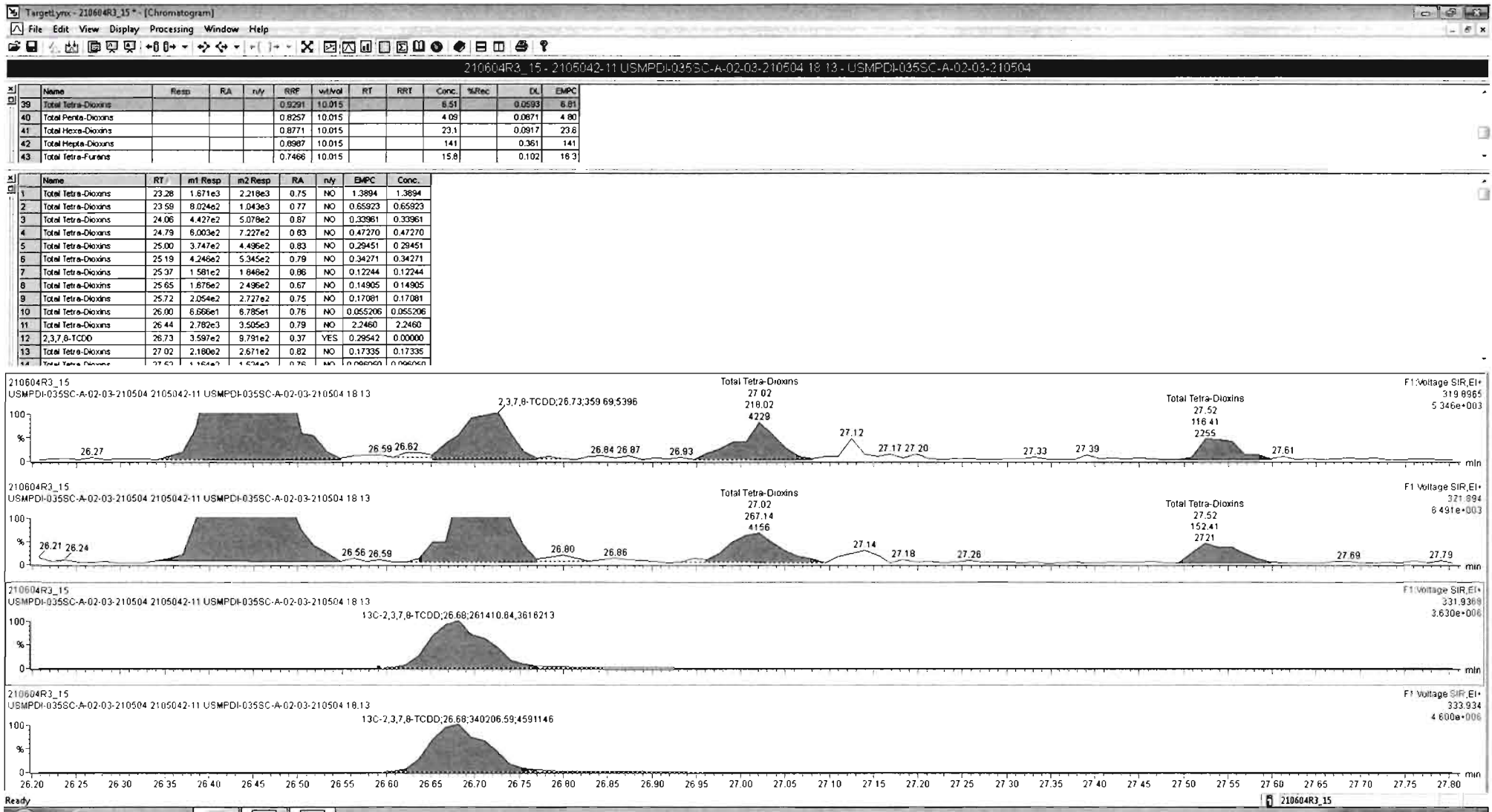
2,3,7,8-TCDD



13C-2,3,7,8-TCDD



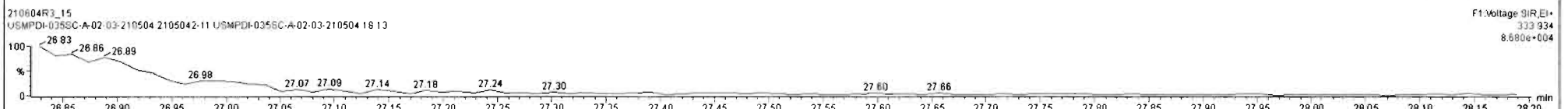
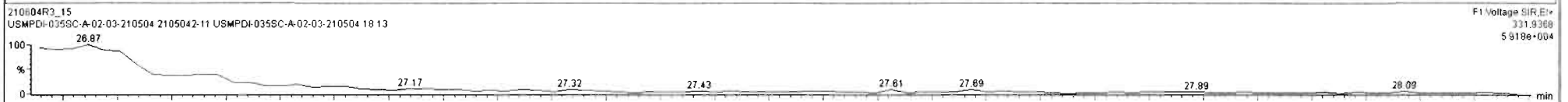
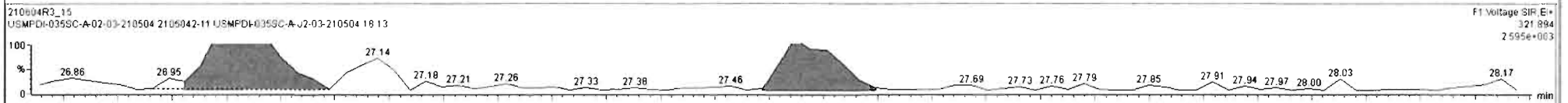
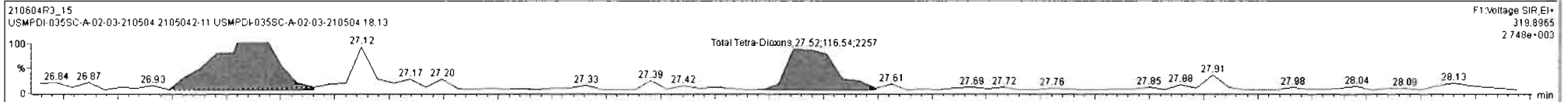




210604R3_15 - 2105042-11 USMPDI-035SC-A-02-03-210504 18 13 - USMPDI-035SC-A-02-03-210504

#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9291	10.015			6.51		0.0593	6.81
40	Total Penta-Dioxins				0.8257	10.015			4.13		0.0670	4.87
41	Total Hexa-Dioxins				0.8771	10.015			23.1		0.0917	23.6
42	Total Hepta-Dioxins				0.8987	10.015			141		0.361	141
43	Total Tetra-Furans				0.7466	10.015			15.8		0.102	16.3

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
2	Total Tetra-Dioxins	23.59	8.024e2	1.043e3	0.77	NO	0.65923	0.65923
3	Total Tetra-Dioxins	24.06	4.427e2	5.078e2	0.87	NO	0.33961	0.33961
4	Total Tetra-Dioxins	24.79	6.003e2	7.227e2	0.83	NO	0.47270	0.47270
5	Total Tetra-Dioxins	25.00	3.747e2	4.496e2	0.83	NO	0.29451	0.29451
6	Total Tetra-Dioxins	25.19	4.246e2	5.345e2	0.79	NO	0.34271	0.34271
7	Total Tetra-Dioxins	25.37	1.581e2	1.846e2	0.86	NO	0.12244	0.12244
8	Total Tetra-Dioxins	25.65	1.876e2	2.496e2	0.67	NO	0.14905	0.14905
9	Total Tetra-Dioxins	25.72	2.054e2	2.727e2	0.75	NO	0.17081	0.17081
10	Total Tetra-Dioxins	26.00	6.666e1	8.785e1	0.76	NO	0.055206	0.055206
11	Total Tetra-Dioxins	26.44	2.782e3	3.505e3	0.79	NO	2.2460	2.2460
12	2,3,7,8-TCDD	26.73	3.597e2	9.791e2	0.37	YES	0.29542	0.00000
13	Total Tetra-Dioxins	27.02	2.173e2	2.709e2	0.80	NO	0.17444	0.17444
14	Total Tetra-Dioxins	27.52	1.165e2	1.524e2	0.78	NO	0.096097	0.096097



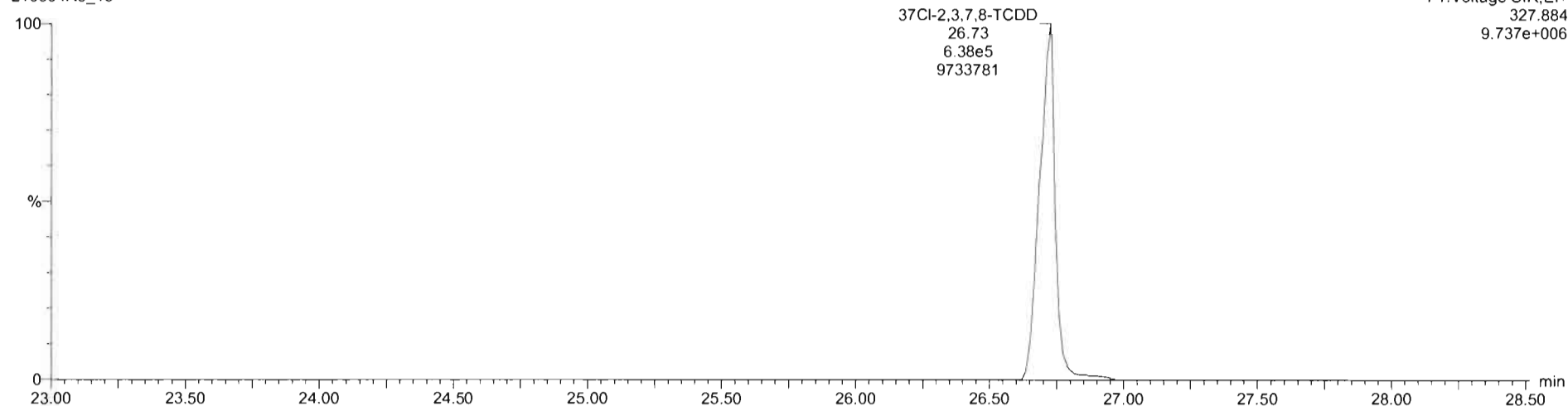
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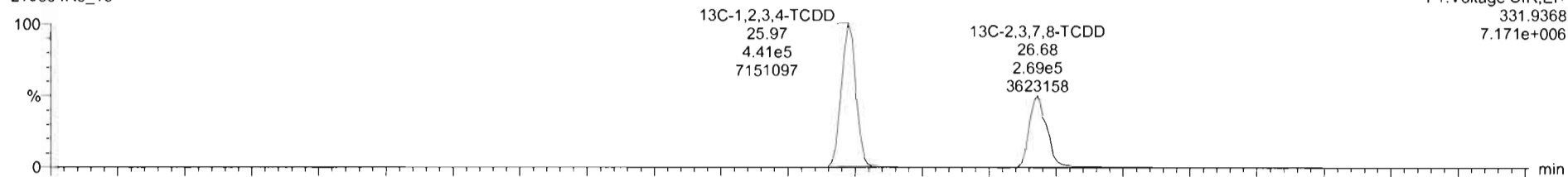
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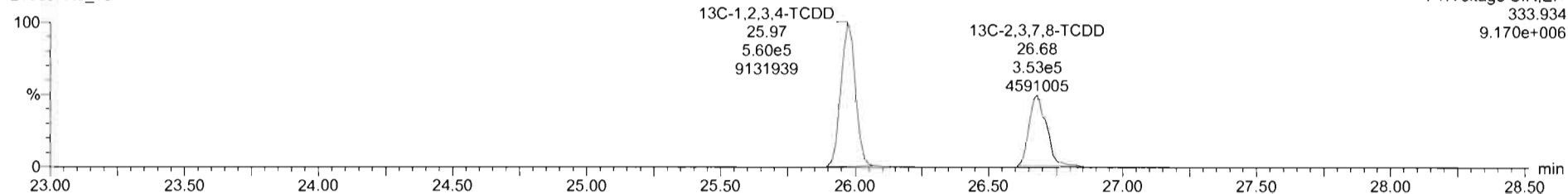


13C-1,2,3,4-TCDD

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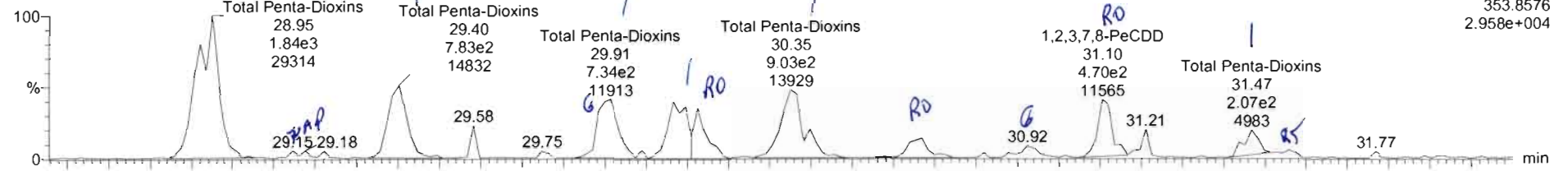
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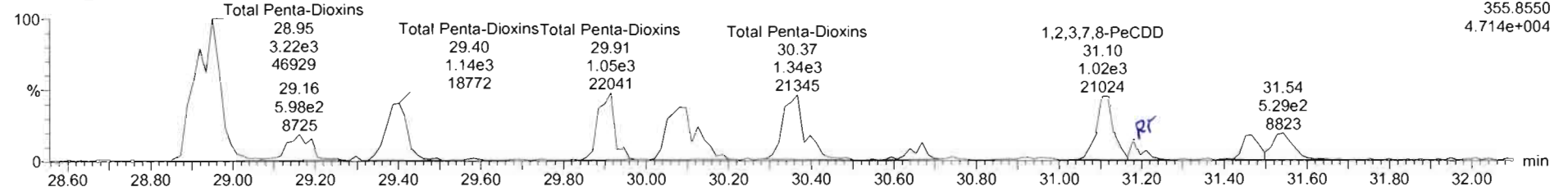
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1,2,3,7,8-PeCDD

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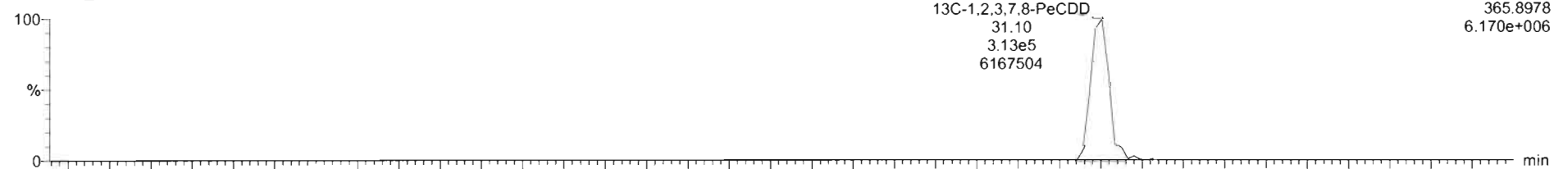


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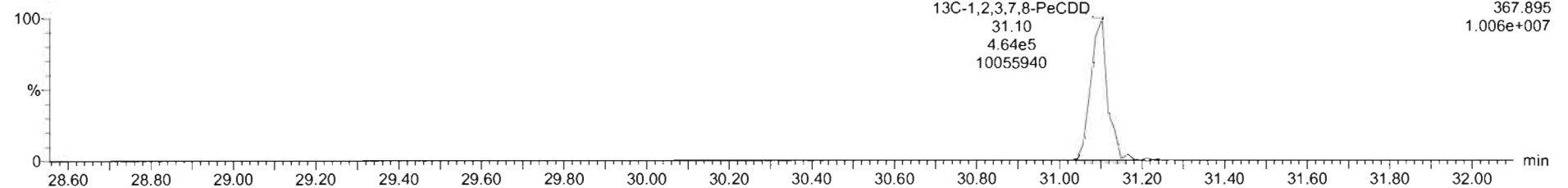


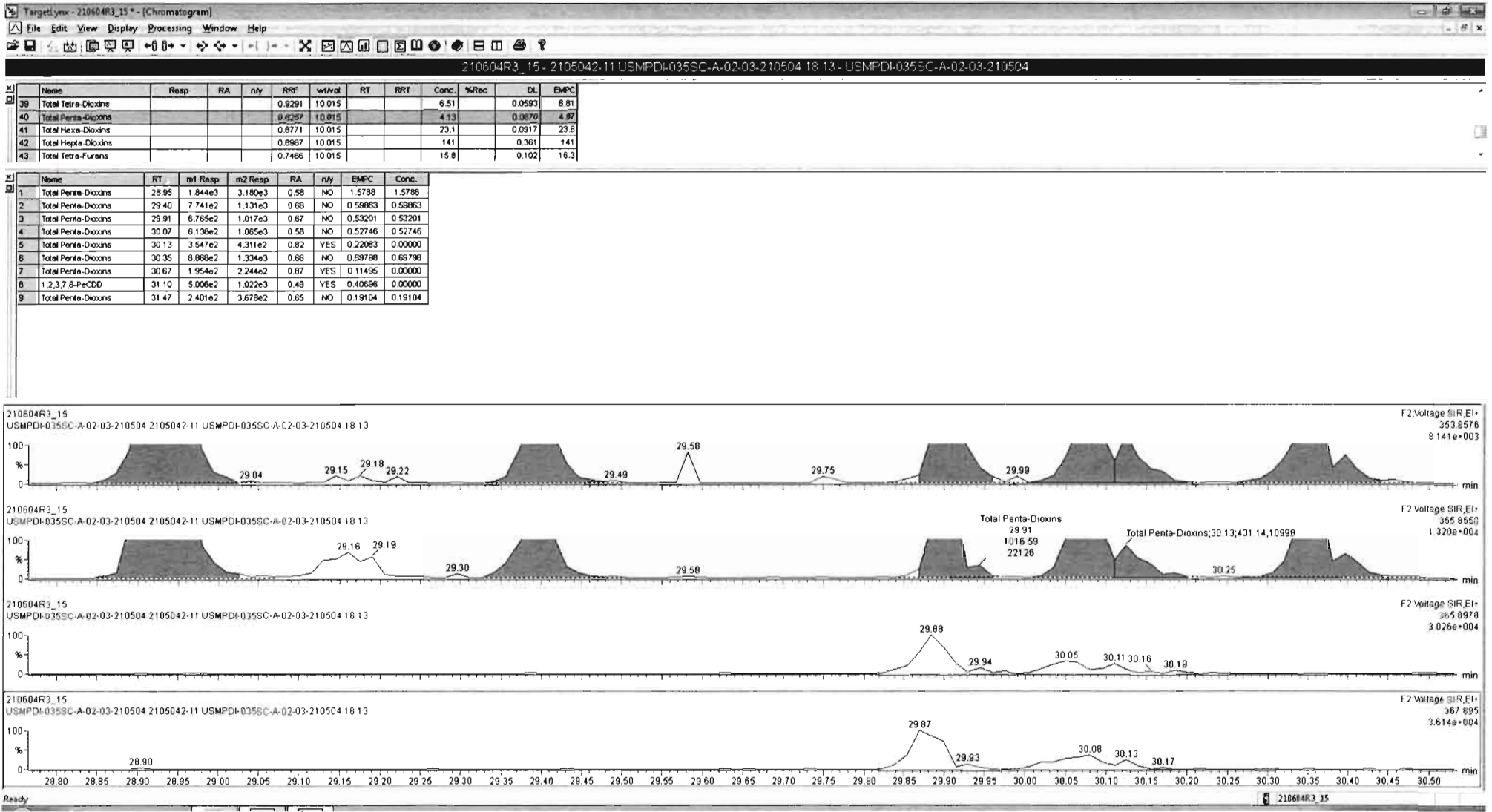
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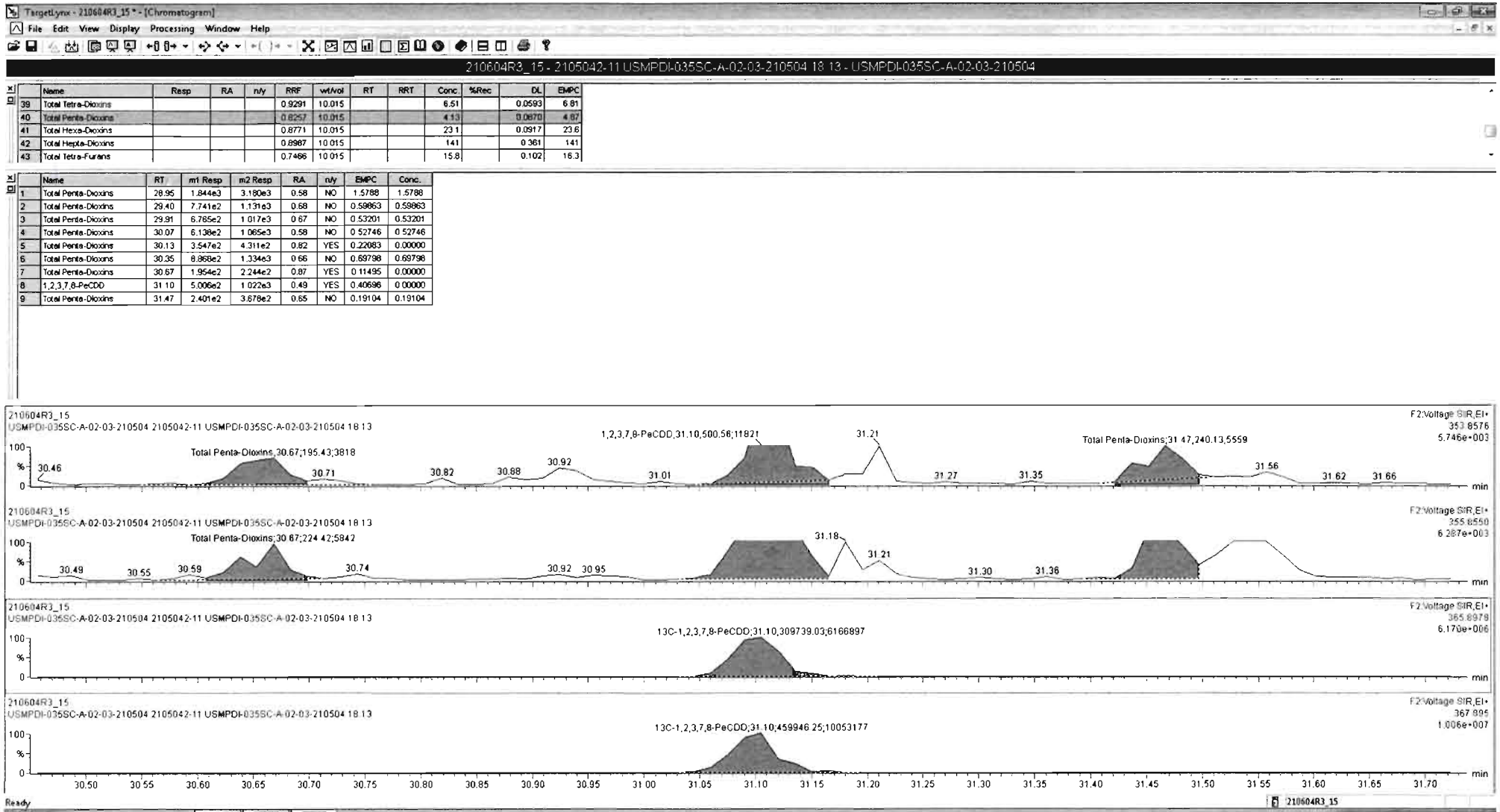
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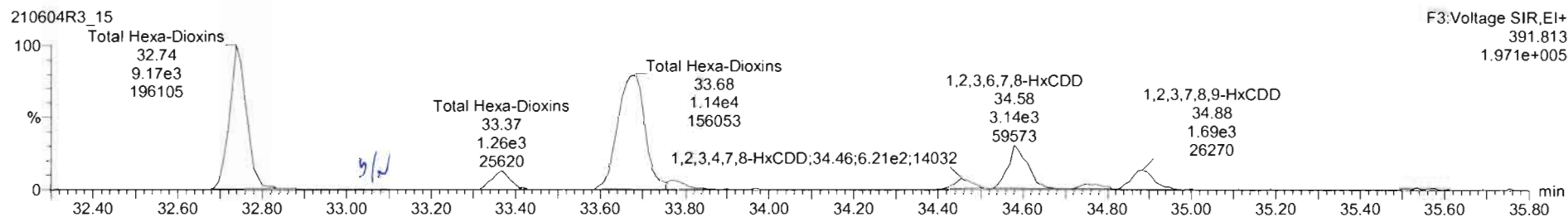
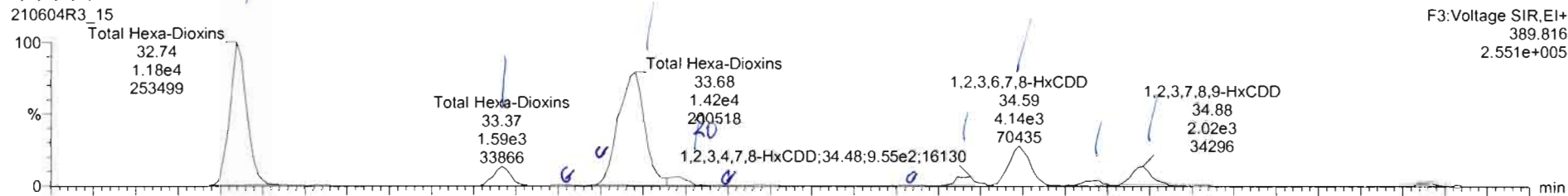


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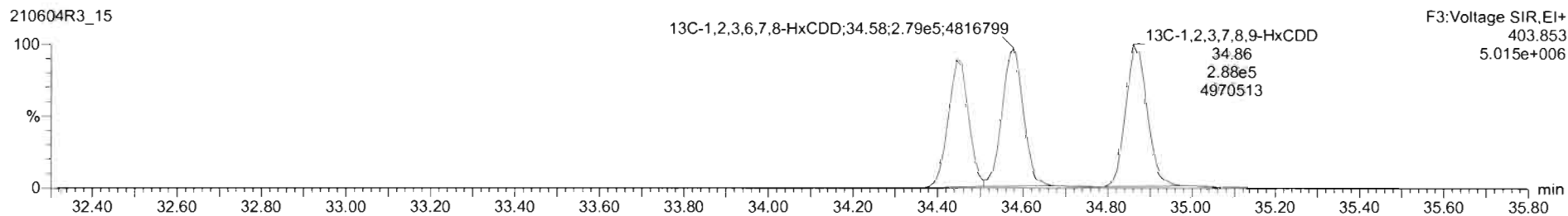
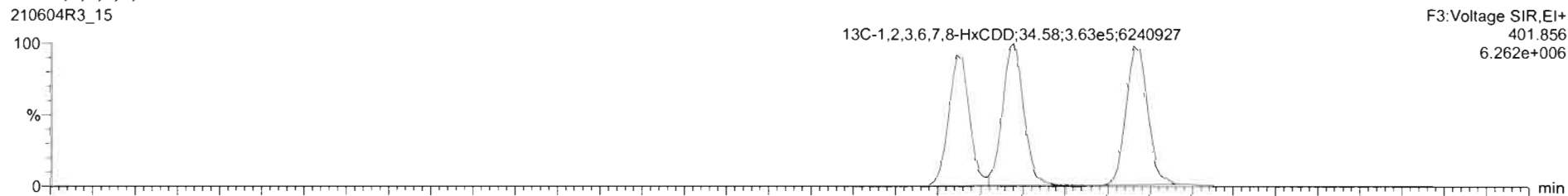
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1,2,3,4,7,8-HxCDD

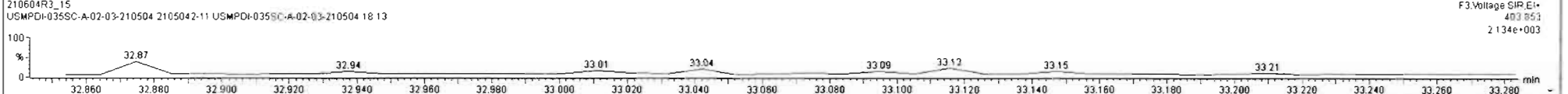
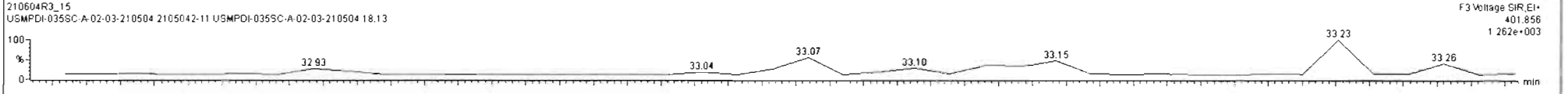
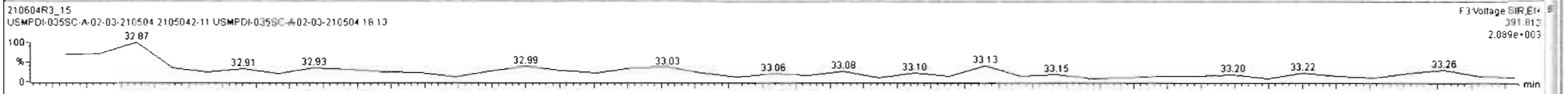
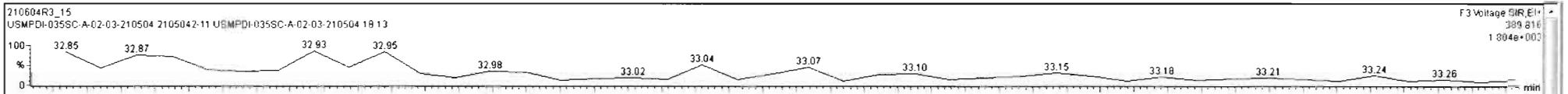


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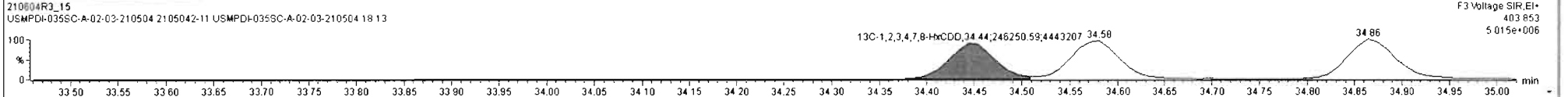
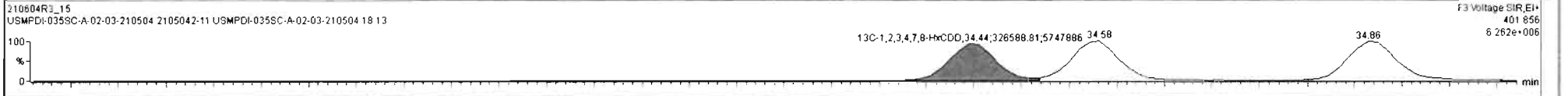
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.015			6.51		0.0593	6.81
40 Total Penta-Dioxins				0.8257	10.015			4.13		0.0870	4.87
41 Total Hexa-Dioxins				0.8771	10.015			23.1		0.0917	23.8
42 Total Hepta-Dioxins				0.8987	10.015			141		0.361	141
43 Total Tetra-Furans				0.7486	10.015			15.8		0.102	16.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.74	1.179e4	9.171e3	1.29	NO	7.6794	7.6794
2 Total Hexa-Dioxins	33.37	1.589e3	1.258e3	1.26	NO	1.0430	1.0430
3 Total Hexa-Dioxins	33.68	1.432e4	1.141e4	1.25	NO	9.4266	9.4266
4 Total Hexa-Dioxins	33.79	8.064e2	5.372e2	1.50	YES	0.44082	0.00000
5 1,2,3,4,7,8-HxCDD	34.48	8.557e2	7.533e2	1.27	NO	0.61265	0.61265
6 1,2,3,6,7,8-HxCDD	34.59	4.167e3	3.326e3	1.25	NO	2.6550	2.6550
7 Total Hexa-Dioxins	34.78	5.826e2	4.375e2	1.33	NO	0.37373	0.37373
8 1,2,3,7,8,9-HxCDD	34.86	2.052e3	1.737e3	1.18	NO	1.3336	1.3336



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.015			6.51		0.0593	6.81
40 Total Penta-Dioxins				0.8257	10.015			4.13		0.0670	4.87
41 Total Hexa-Dioxins				0.6771	10.015			23.1		0.0917	23.6
42 Total Hepta-Dioxins				0.6907	10.015			141		0.361	141
43 Total Tetra-Furens				0.7466	10.015			15.8		0.102	16.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.74	1.179e4	9.171e3	1.29	NO	7.6784	7.6784
2 Total Hexa-Dioxins	33.37	1.589e3	1.258e3	1.26	NO	1.0430	1.0430
3 Total Hexa-Dioxins	33.68	1.432e4	1.141e4	1.25	NO	9.4266	9.4266
4 Total Hexa-Dioxins	33.79	8.064e2	5.372e2	1.50	YES	0.44082	0.00000
5 1,2,3,4,7,8-HxCDD	34.46	9.557e2	7.533e2	1.27	NO	0.61265	0.61265
6 1,2,3,6,7,8-HxCDD	34.58	4.167e3	3.326e3	1.25	NO	2.6550	2.6550
7 Total Hexa-Dioxins	34.78	5.829e2	4.375e2	1.33	NO	0.37373	0.37373
8 1,2,3,7,8-HxCDD	34.86	2.052e3	1.737e3	1.18	NO	1.3336	1.3336



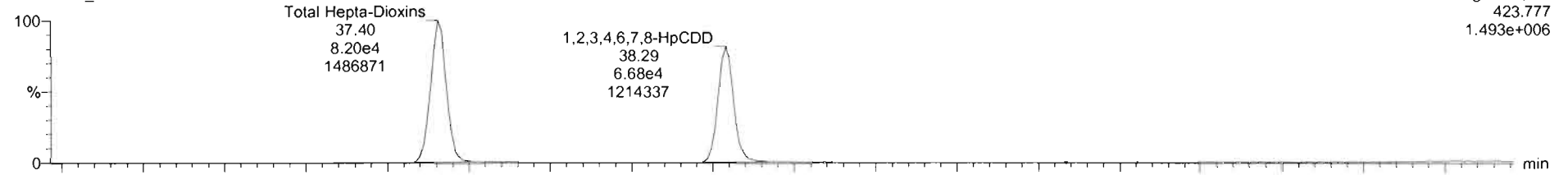
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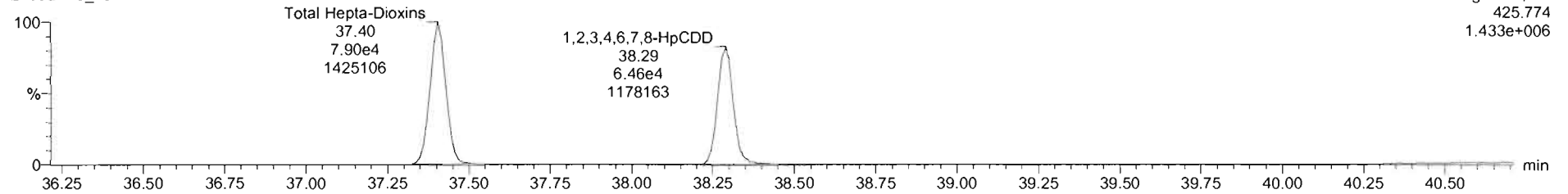
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1,2,3,4,6,7,8-HpCDD

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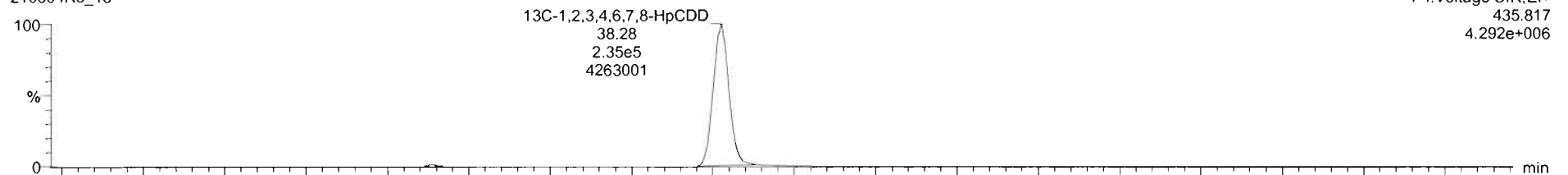


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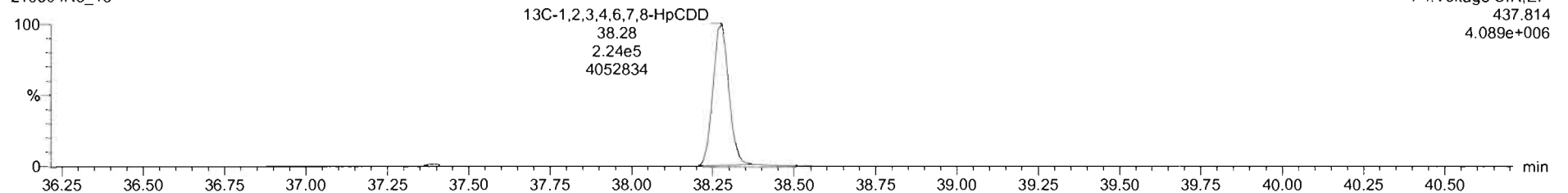


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210604R3_15



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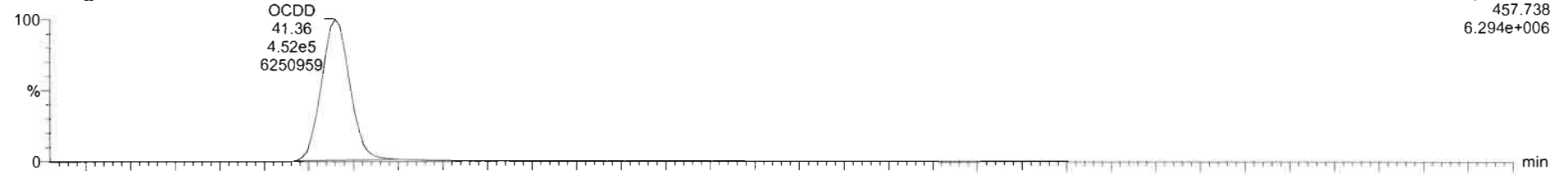
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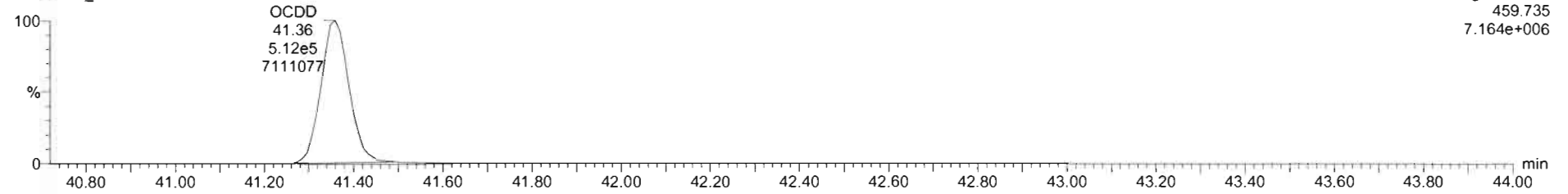
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OCDD

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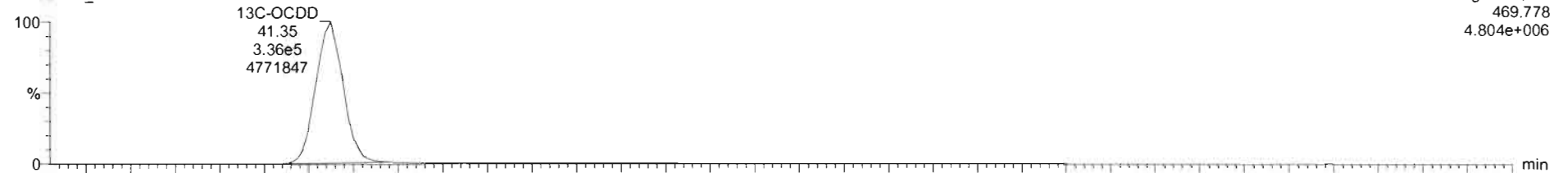


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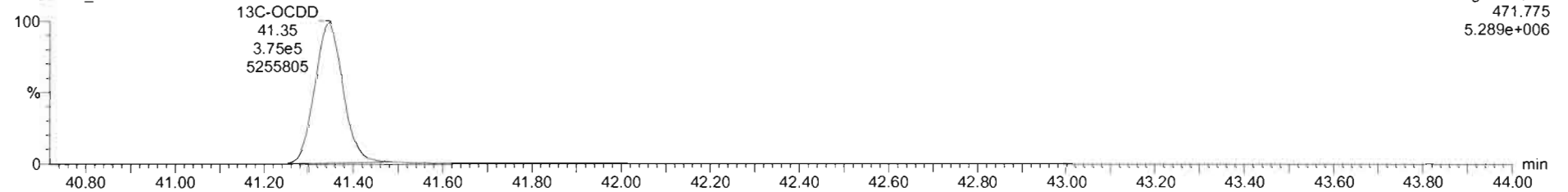


13C-OCDD

210604R3_15



210604R3_15

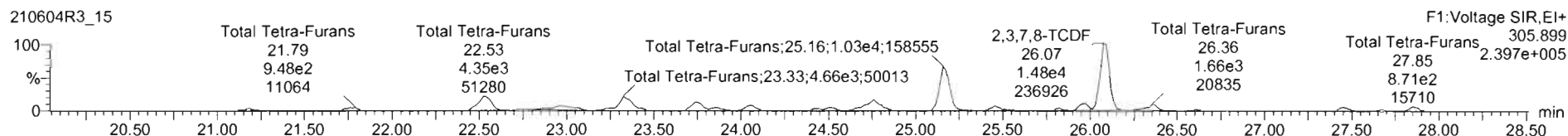
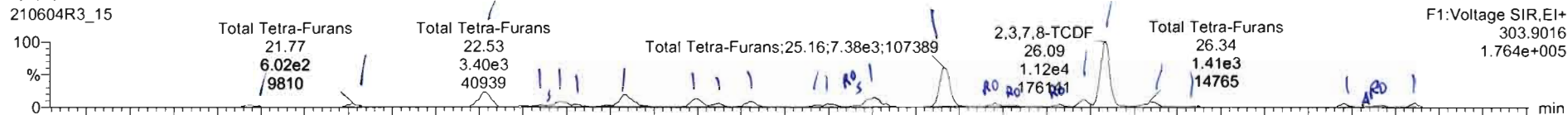


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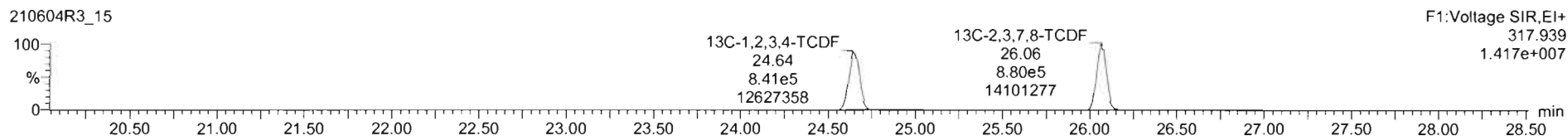
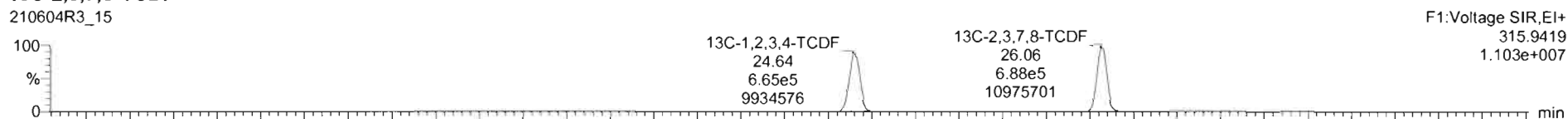
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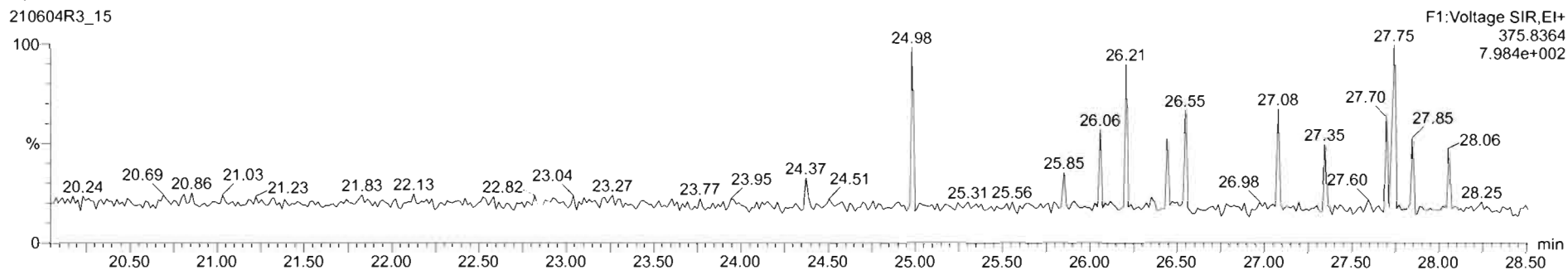
2,3,7,8-TCDF

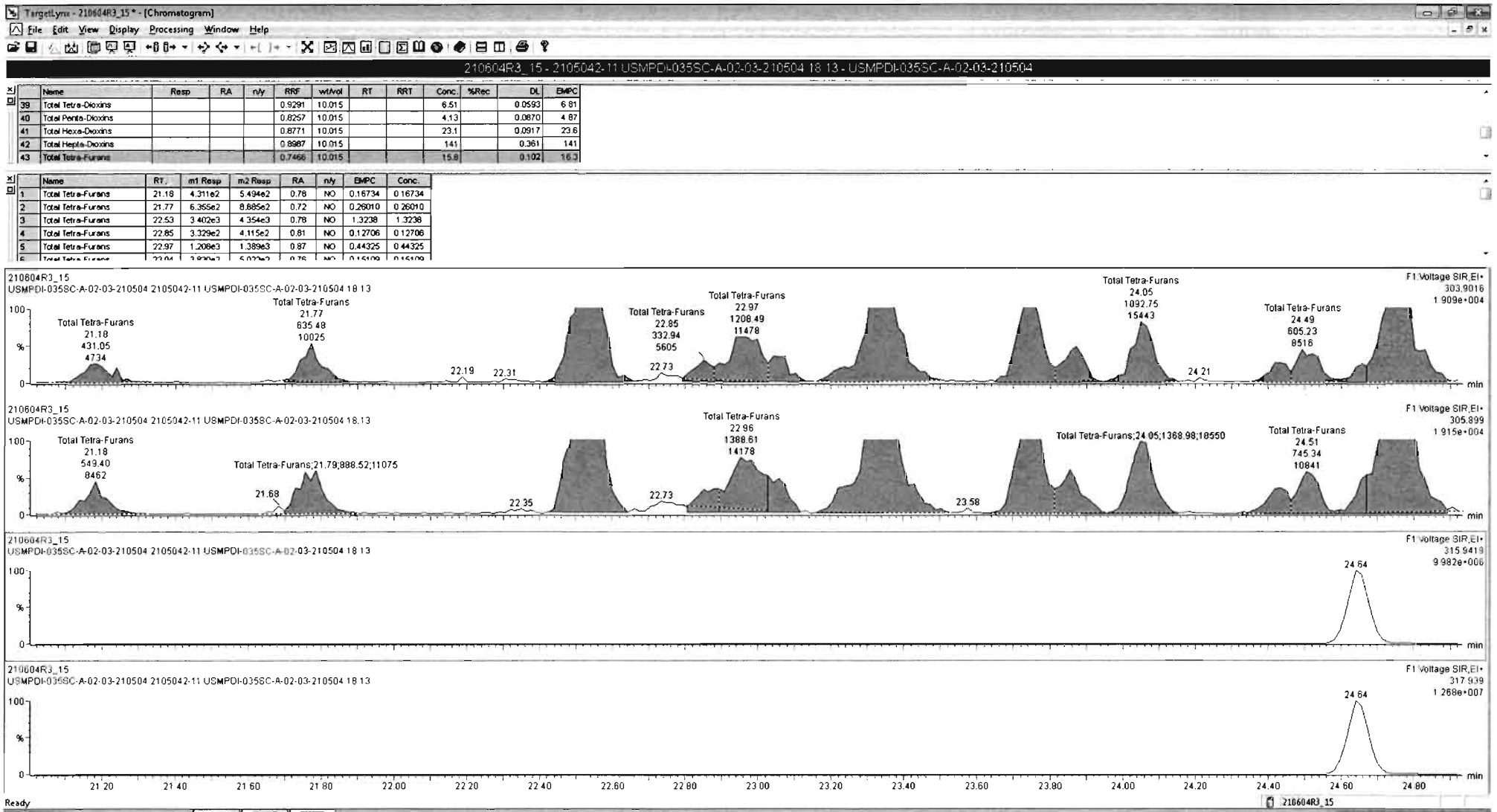


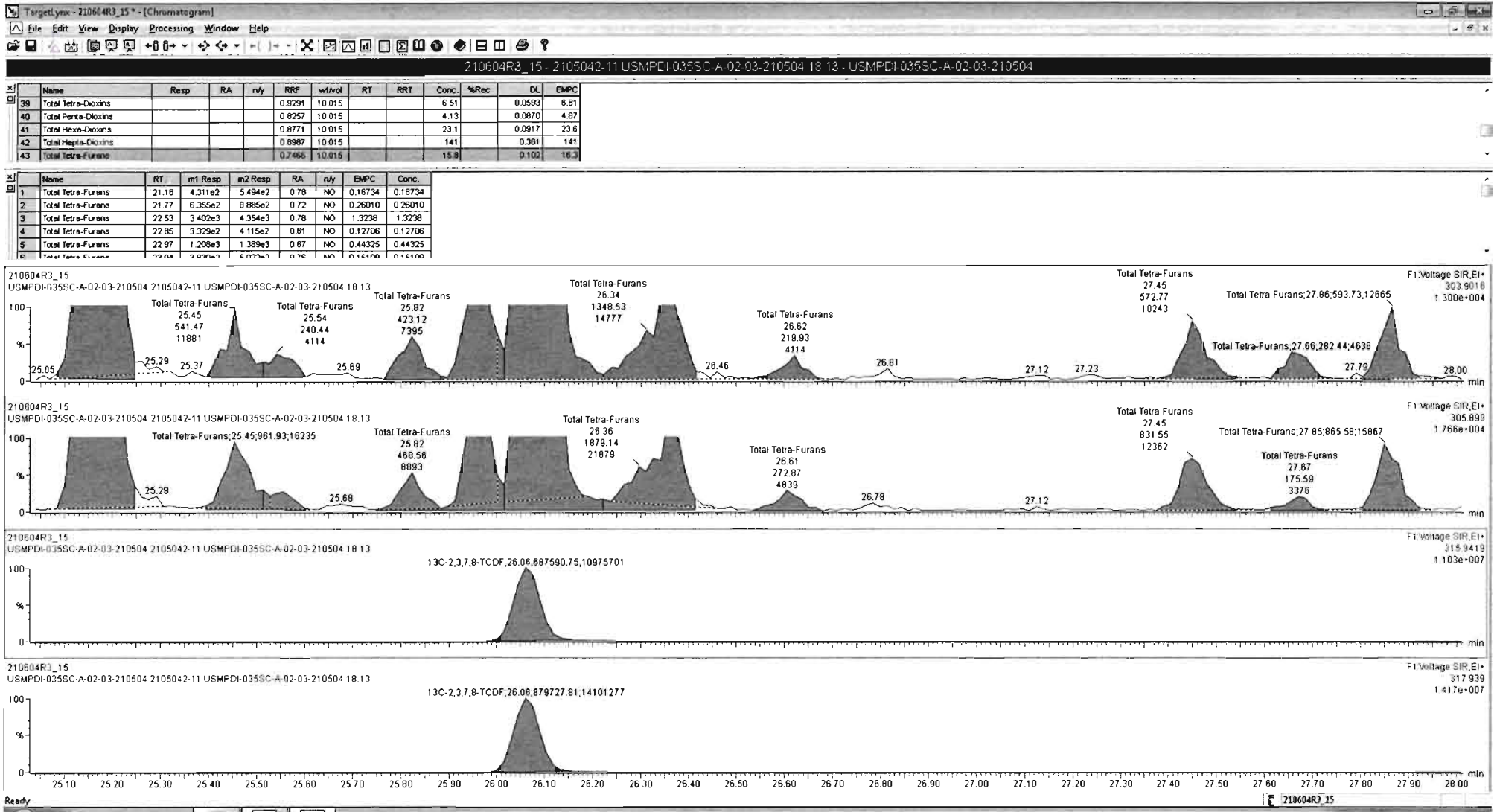
13C-2,3,7,8-TCDF



DPE1







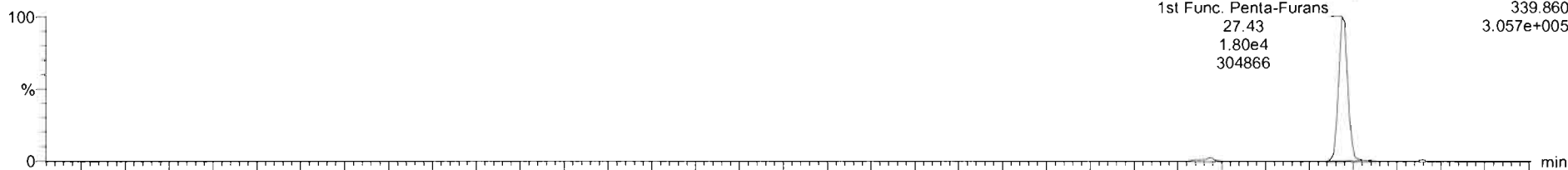
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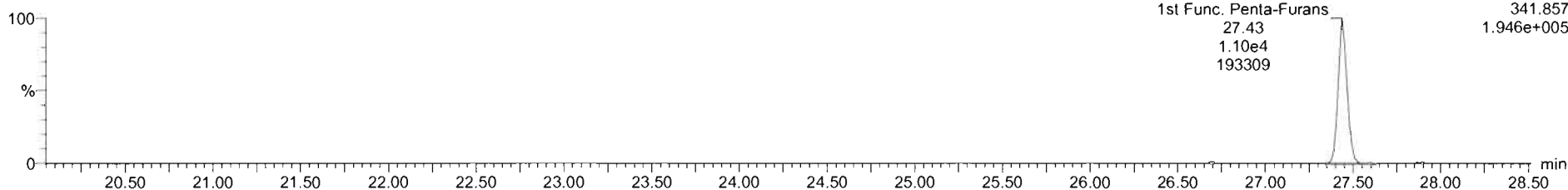
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1st Func. Penta-Furans

210604R3_15

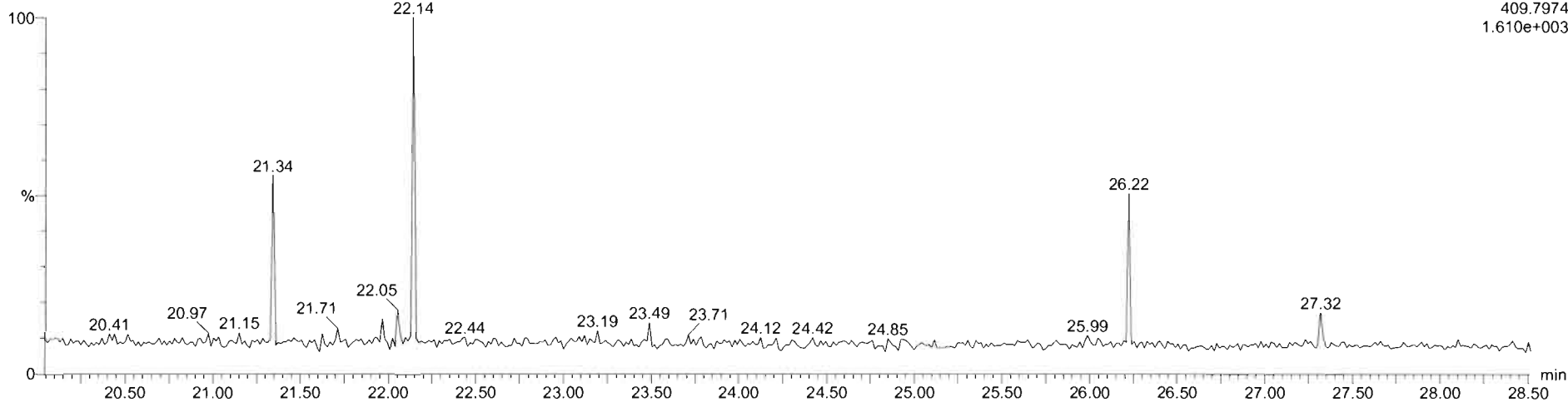


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DPE6

210604R3_15

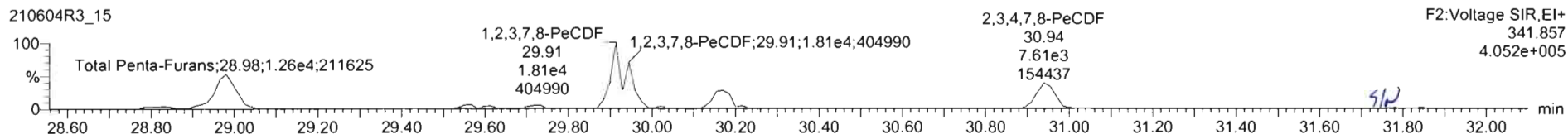
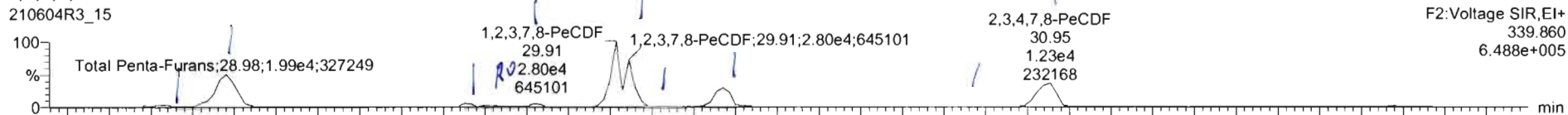


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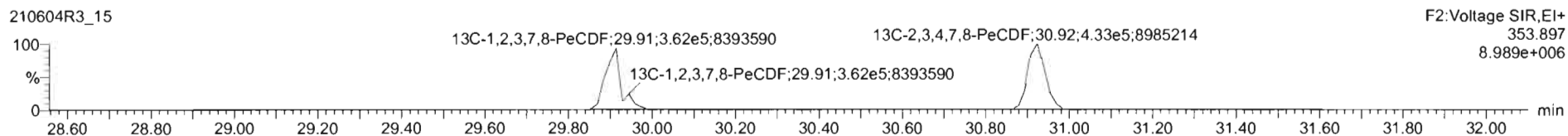
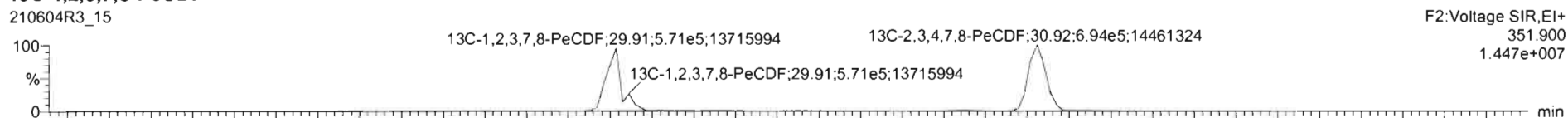
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Name: 210604R3_15, Date: 05-Jun-2021, Time: 08:16:37, ID: 2105042-11 USMPDI-035SC-A-02-03-210504 18.13, Description: USMPDI-035SC-A-02-03-210504

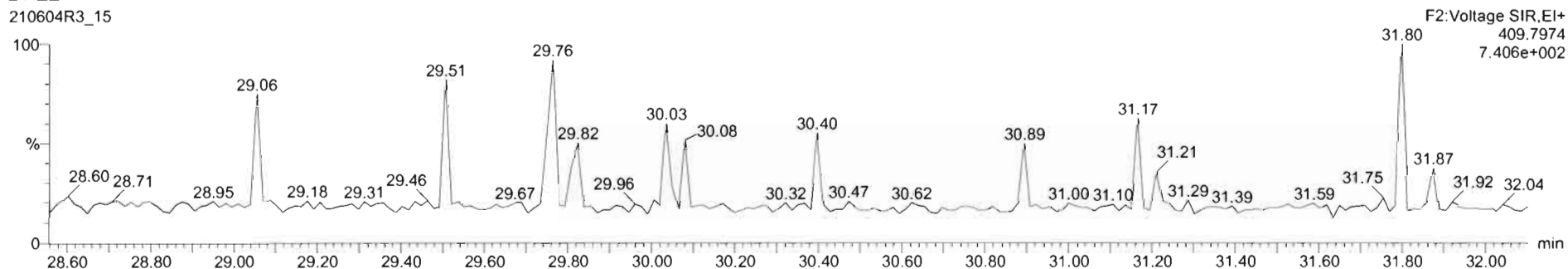
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



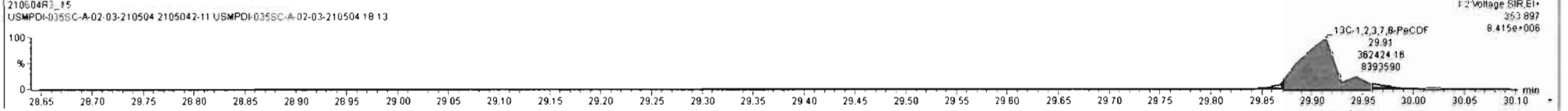
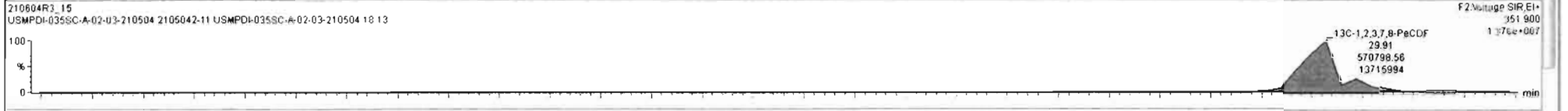
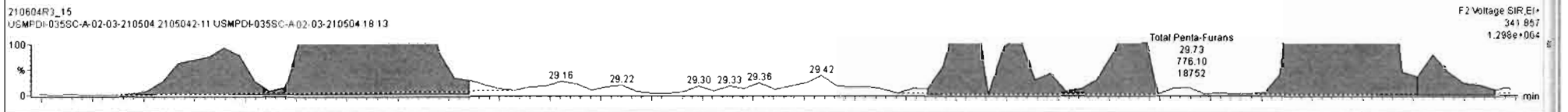
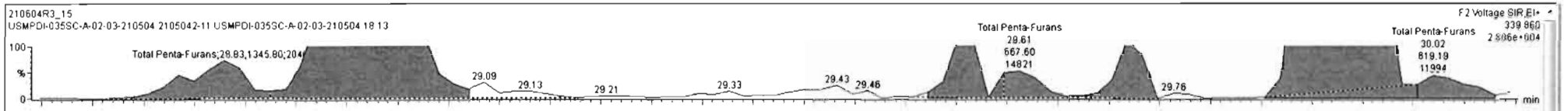
DPE2



210604R3_15 - 2105042-11 USMPDI-035SC-A-02-03-210504 18 13 - USMPDI-035SC-A-02-03-210504

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.8771	10.015			6.42	0.0131	6.42	
45 Total Penta-Furans				0.8771	10.015			27.1	0.251	27.4	
46 Total Hexa-Furans				0.9725	10.015			66.0	0.114	66.2	
47 Total Hepta-Furans				1.0481	10.015			36.9	0.111	36.9	
48 PFK1											

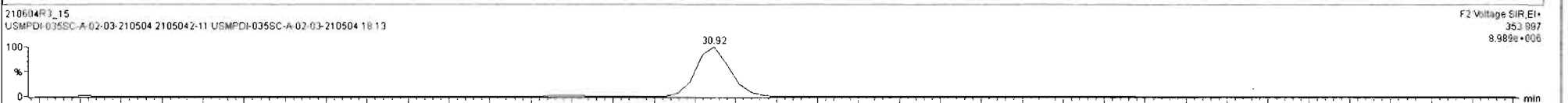
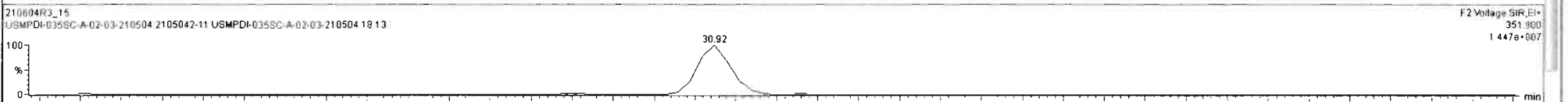
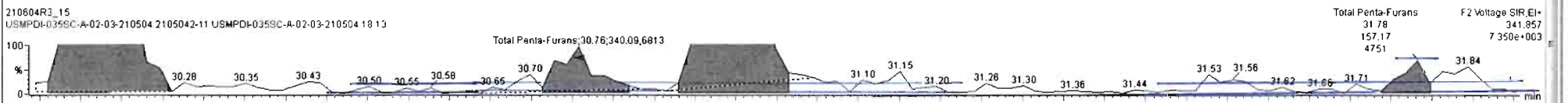
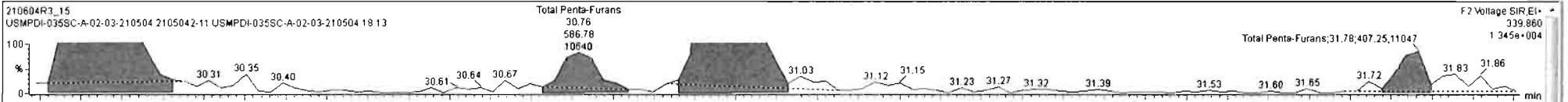
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.83	1.348e3	8.421e2	1.60	NO	0.48353	0.48353
2 Total Penta-Furans	28.98	1.960e4	1.267e4	1.55	NO	7.1306	7.1306
3 Total Penta-Furans	29.55	1.104e3	7.899e2	1.40	NO	0.41862	0.41862
4 Total Penta-Furans	29.61	6.676e2	5.443e2	1.23	YES	0.24273	0.00000
5 Total Penta-Furans	29.72	1.043e3	7.761e2	1.34	NO	0.40198	0.40198
6 1,2,3,7,8-PeCDF	29.91	2.856e4	1.770e4	1.61	NO	11.288	11.288
7 Total Penta-Furans	30.02	6.192e2	3.573e2	1.73	NO	0.21590	0.21590
8 Total Penta-Furans	30.17	8.954e3	5.744e3	1.56	NO	3.2402	3.2402
9 Total Penta-Furans	30.76	5.861e2	3.401e2	1.72	NO	0.20468	0.20468
10 2,3,4,7,8-PeCDF	30.95	1.239e4	7.705e3	1.61	NO	3.7012	3.7012
11 Total Penta-Furans	31.78	4.090e2	1.609e2	2.54	YES	0.090688	0.00000



210604R3_15 - 2105042-11 USMPDI-035SC-A-02-03-210504 18 13 - USMPDI-035SC-A-02-03-210504

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.8771	10.015			6.42		0.0131	6.42
45 Total Penta-Furans				0.8771	10.015			27.1		0.251	27.4
46 Total Hexa-Furans				0.9725	10.015			86.0		0.114	86.2
47 Total Hepta-Furans				1.0481	10.015			36.9		0.111	36.9
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.83	1.346e3	8.421e2	1.80	NO	0.48353	0.48353
2 Total Penta-Furans	28.98	1.960e4	1.267e4	1.55	NO	7.1306	7.1306
3 Total Penta-Furans	29.55	1.104e3	7.899e2	1.40	NO	0.41862	0.41862
4 Total Penta-Furans	29.61	6.876e2	5.443e2	1.23	YES	0.24273	0.00000
5 Total Penta-Furans	29.72	1.043e3	7.761e2	1.34	NO	0.40198	0.40198
6 1,2,3,7,8-PeCDF	29.91	2.856e4	1.770e4	1.61	NO	11.288	11.288
7 Total Penta-Furans	30.02	6.192e2	3.573e2	1.73	NO	0.21580	0.21580
8 Total Penta-Furans	30.17	9.036e3	5.747e3	1.57	NO	3.2670	3.2670
9 Total Penta-Furans	30.76	5.868e2	3.401e2	1.73	NO	0.20484	0.20484
10 2,3,4,7,8-PeCDF	30.95	1.238e4	7.737e3	1.80	NO	3.7048	3.7048
11 Total Penta-Furans	31.78	4.073e2	1.572e2	2.59	YES	0.088572	0.00000



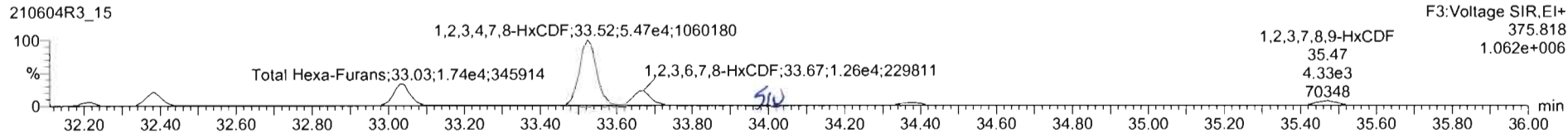
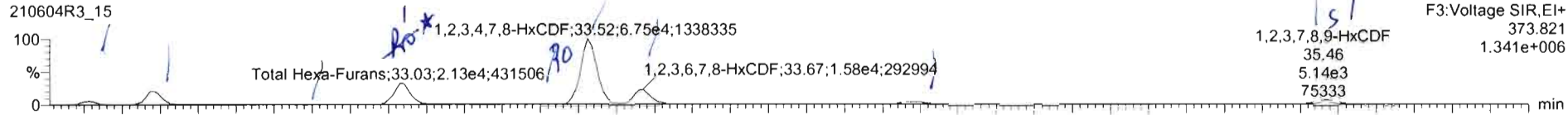
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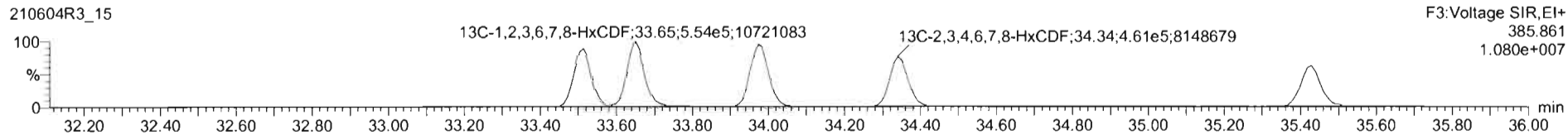
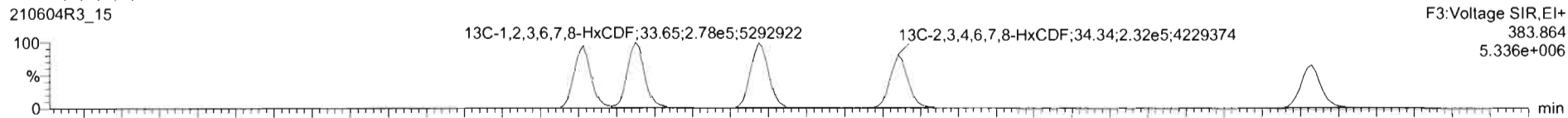
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#dy 06-21-2021
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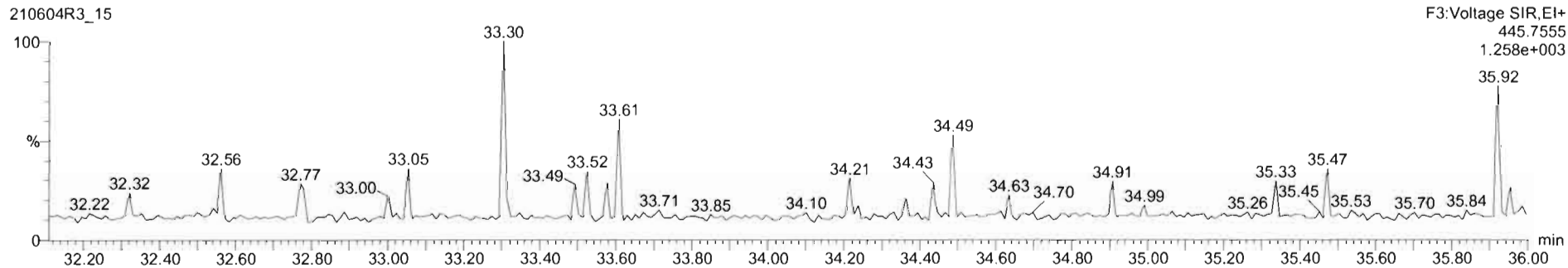
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13C-1,2,3,4,7,8-HxCDF

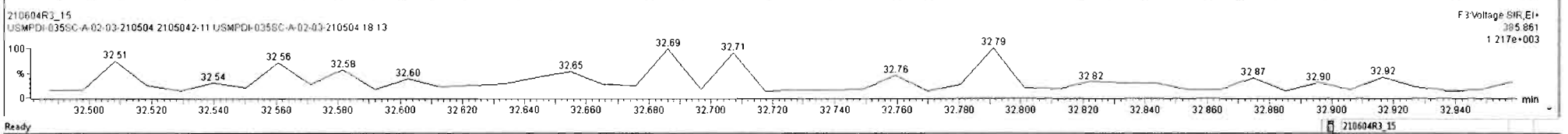
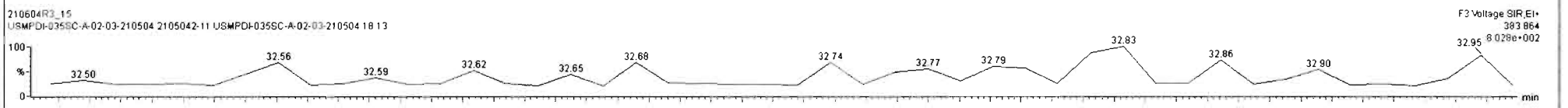
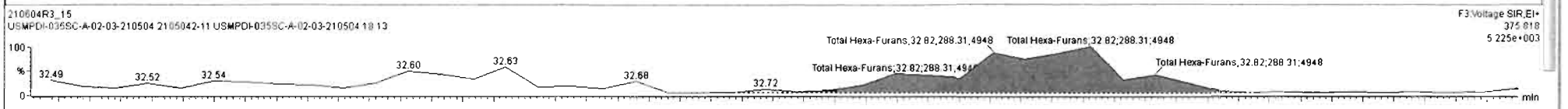
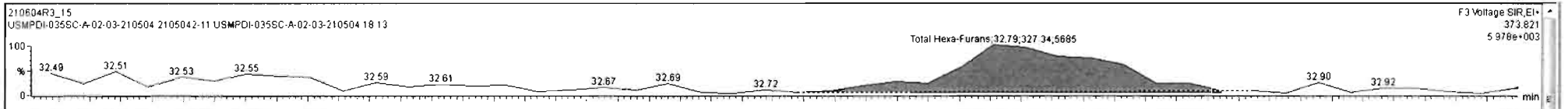


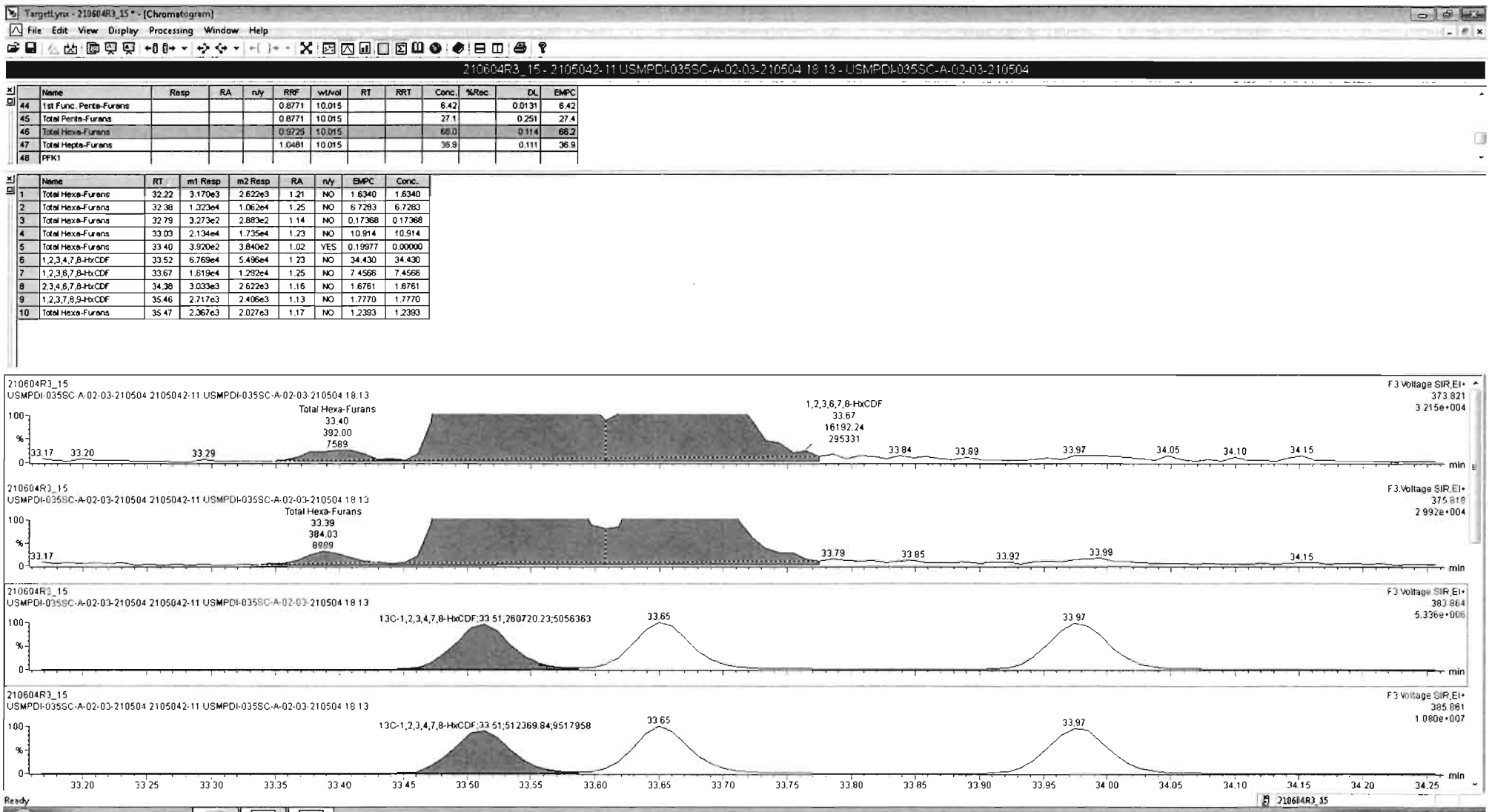
DPE3

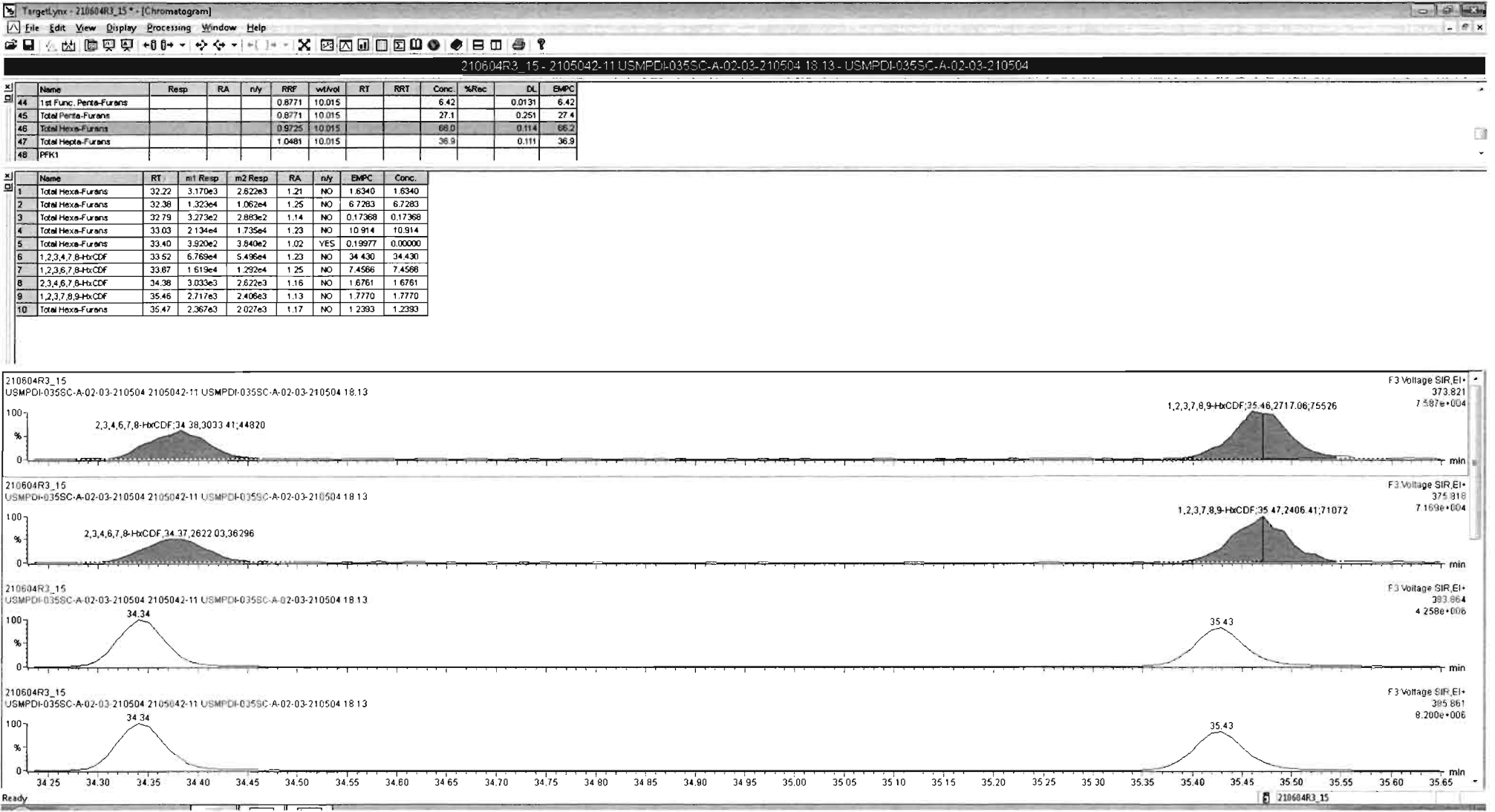


Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.8771	10.015			6.42	0.0131		6.42
45 Total Penta-Furans				0.8771	10.015			27.1	0.251		27.4
46 Total Hexa-Furans				0.9725	10.015			66.0	0.114		66.2
47 Total Hepta-Furans				1.0481	10.015			36.9	0.111		36.9
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	3.170e3	2.622e3	1.21	NO	1.6340	1.6340
2 Total Hexa-Furans	32.36	1.323e4	1.062e4	1.25	NO	6.7283	6.7283
3 Total Hexa-Furans	32.79	3.273e2	2.883e2	1.14	NO	0.17368	0.17368
4 Total Hexa-Furans	33.03	2.134e4	1.735e4	1.23	NO	10.914	10.914
5 Total Hexa-Furans	33.40	3.820e2	3.840e2	1.02	YES	0.18977	0.00000
6 1,2,3,4,7,8-HxCDF	33.52	6.769e4	5.496e4	1.23	NO	34.430	34.430
7 1,2,3,6,7,8-HxCDF	33.67	1.619e4	1.292e4	1.25	NO	7.4566	7.4566
8 2,3,4,6,7,8-HxCDF	34.36	3.033e3	2.622e3	1.16	NO	1.6761	1.6761
9 1,2,3,7,8,9-HxCDF	35.46	2.717e3	2.406e3	1.13	NO	1.7770	1.7770
10 Total Hexa-Furans	35.47	2.367e3	2.027e3	1.17	NO	1.2393	1.2393





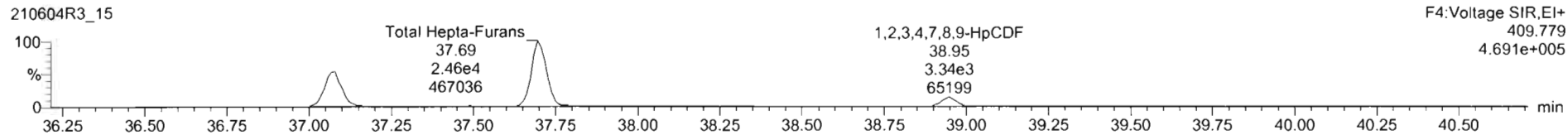
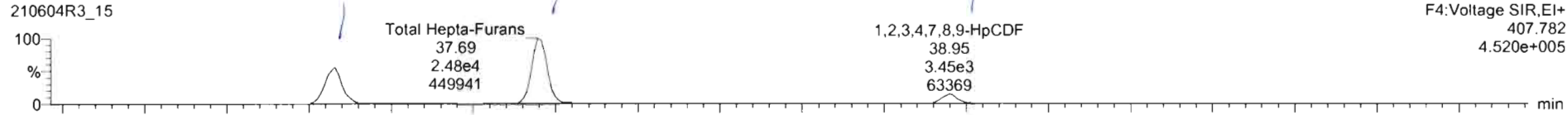


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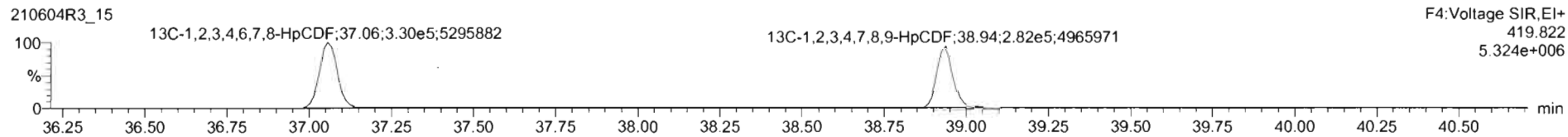
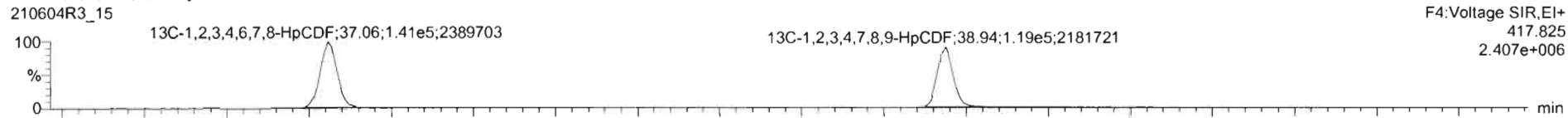
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Name: 210604R3_15, Date: 05-Jun-2021, Time: 08:16:37, ID: 2105042-11 USMPDI-035SC-A-02-03-210504 18.13, Description: USMPDI-035SC-A-02-03-210504

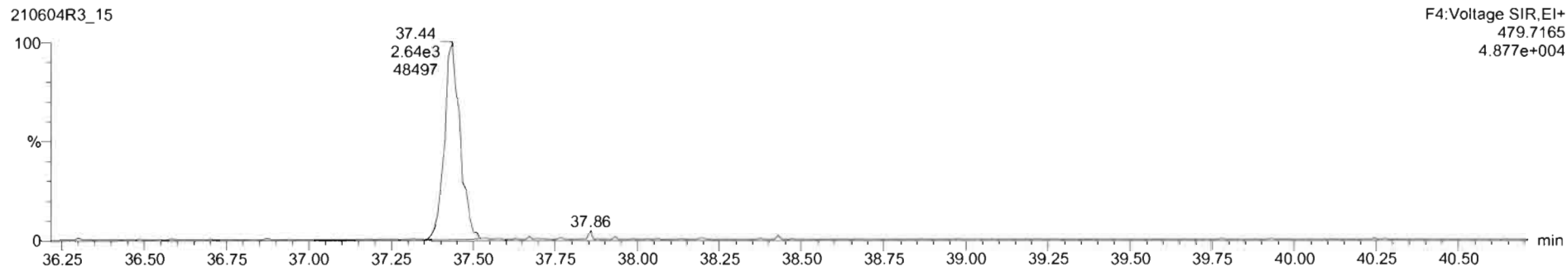
1,2,3,4,6,7,8-HpCDF

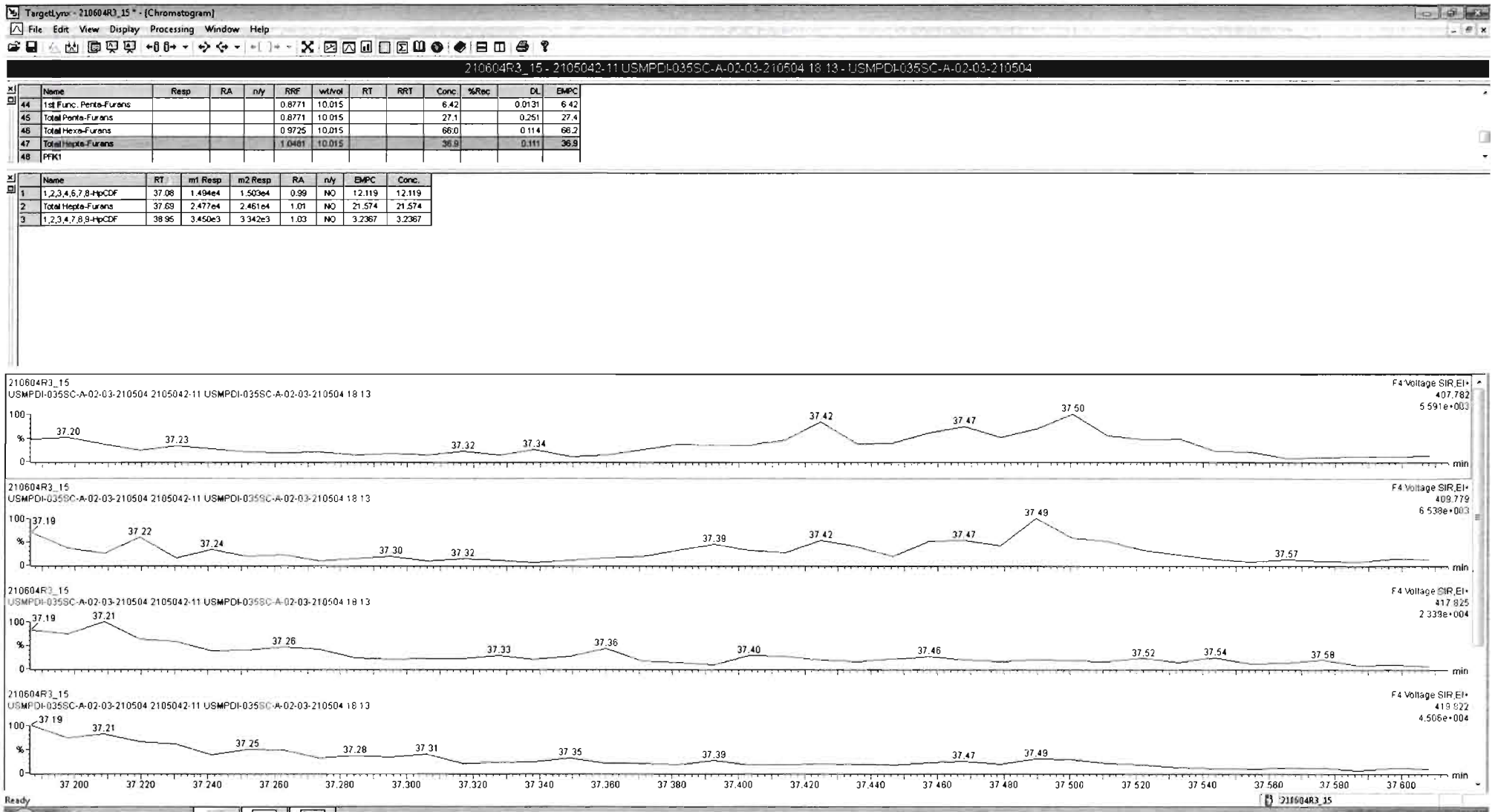


13C-1,2,3,4,6,7,8-HpCDF



DPE4



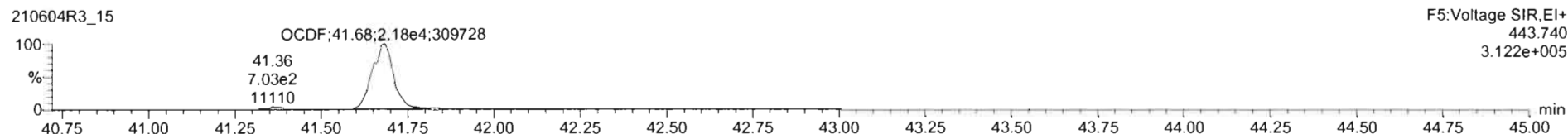
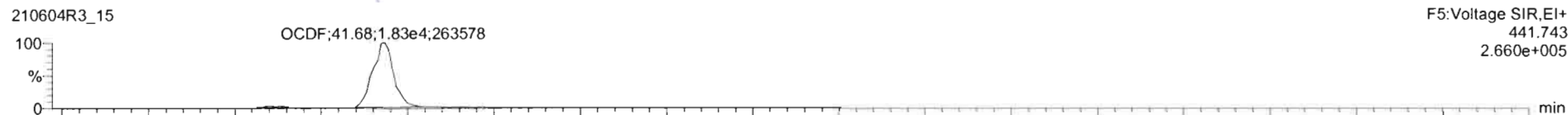


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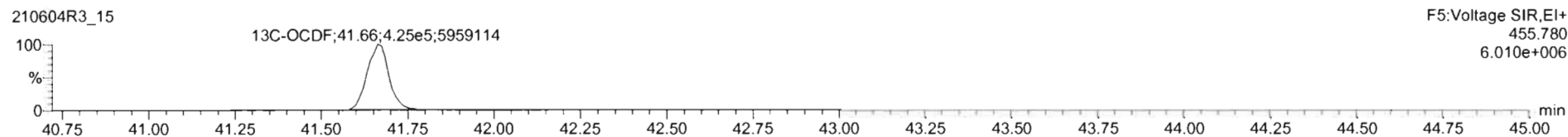
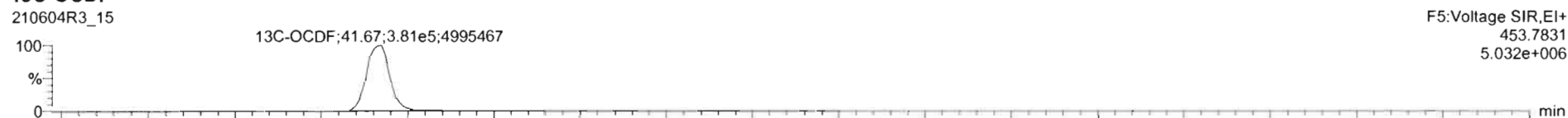
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Name: 210604R3_15, Date: 05-Jun-2021, Time: 08:16:37, ID: 2105042-11 USMPDI-035SC-A-02-03-210504 18.13, Description: USMPDI-035SC-A-02-03-210504

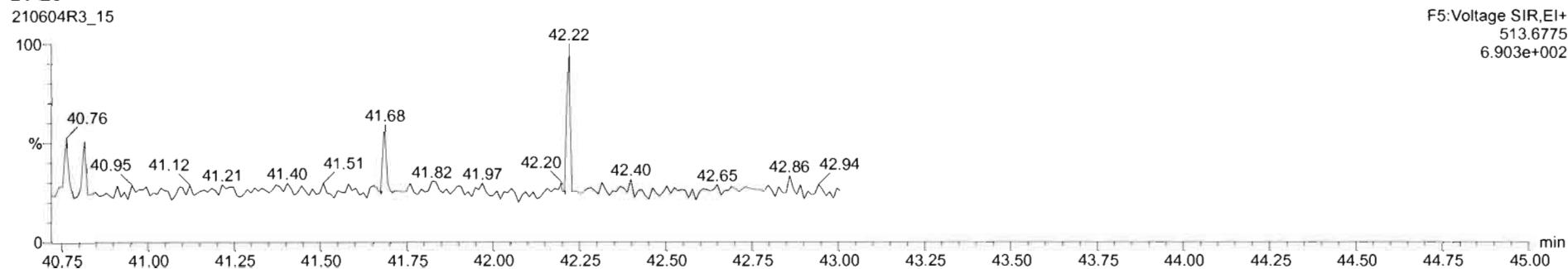
OCDF



13C-OCDF



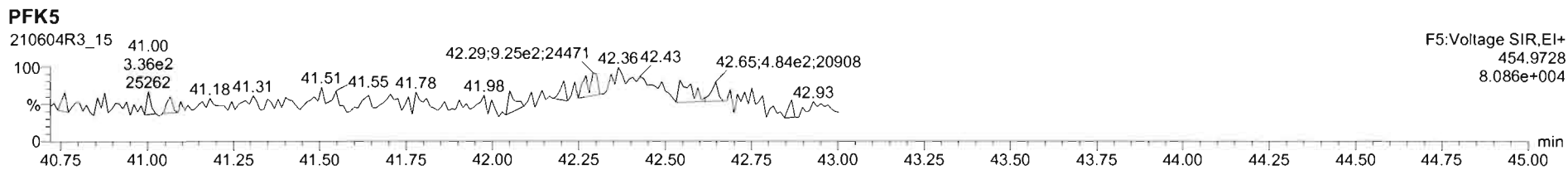
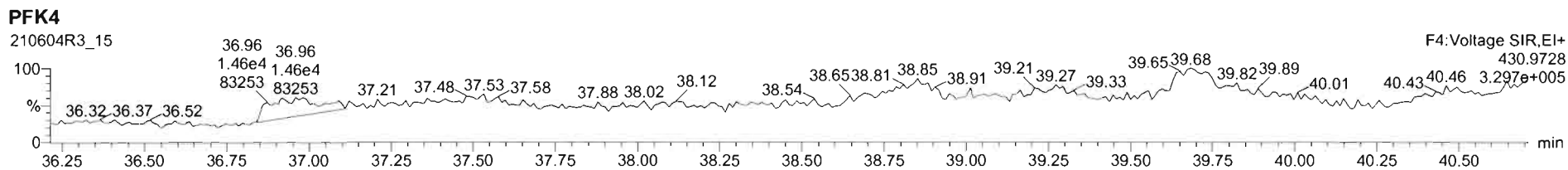
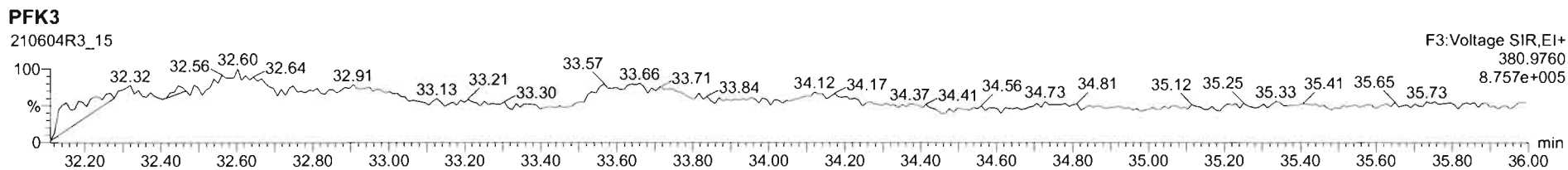
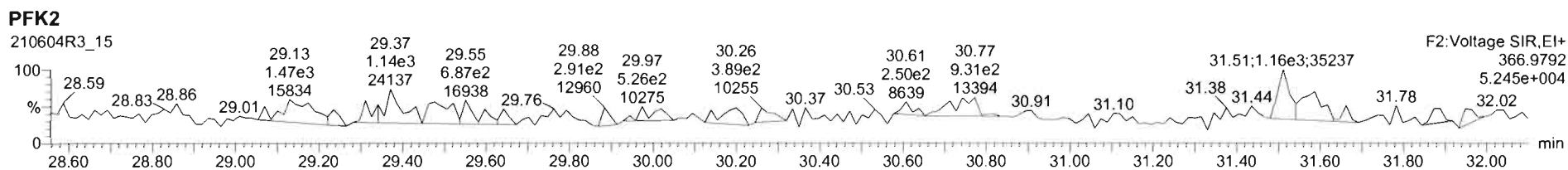
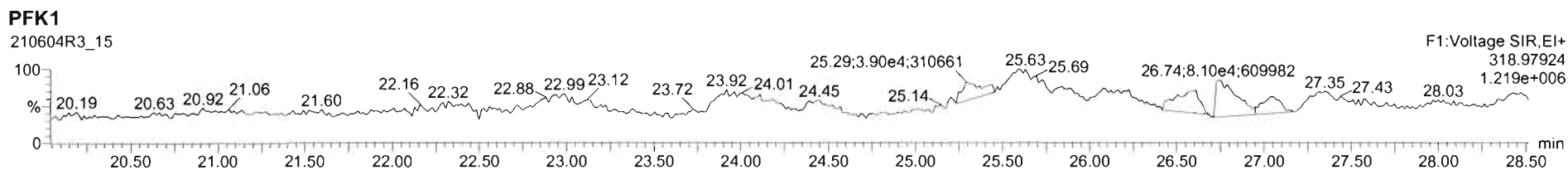
DPE5



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Name: 210604R3_15, Date: 05-Jun-2021, Time: 08:16:37, ID: 2105042-11 USMPDI-035SC-A-02-03-210504 18.13, Description: USMPDI-035SC-A-02-03-210504



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CT 06/23/2021

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.11e3	0.23	YES	0.929	10.005	26.728	26.71	1.001	1.001	0.36528		0.0709	0.155
2	2 1,2,3,7,8-PeCDD	7.77e2	0.61	NO	0.826	10.005	31.136	31.12	1.001	1.000	0.29078		0.215	0.291
3	3 1,2,3,4,7,8-HxCDD	7.46e2	1.45	YES	0.972	10.005	34.477	34.48	1.001	1.001	0.34599		0.119	0.314
4	4 1,2,3,6,7,8-HxCDD	3.88e3	1.25	NO	0.877	10.005	34.613	34.59	1.001	1.000	1.7099		0.125	1.71
5	5 1,2,3,7,8,9-HxCDD	2.06e3	1.29	NO	0.874	10.005	34.884	34.90	1.000	1.001	0.89737		0.125	0.897
6	6 1,2,3,4,6,7,8-HpCDD	6.92e4	1.04	NO	0.899	10.005	38.311	38.31	1.000	1.000	43.022		0.355	43.0
7	7 OCDD	5.52e5	0.89	NO	0.852	10.005	41.388	41.38	1.000	1.000	478.96		0.775	479
8	8 2,3,7,8-TCDF	7.76e3	0.75	NO	0.747	10.005	26.063	26.07	1.000	1.001	1.6226		0.0702	1.62
9	9 1,2,3,7,8-PeCDF	9.23e3	1.68	NO	0.877	10.005	29.917	29.93	1.000	1.001	2.1407		0.0624	2.14
10	10 2,3,4,7,8-PeCDF	6.14e3	1.58	NO	0.962	10.005	30.946	30.94	1.001	1.000	1.3219		0.0547	1.32
11	11 1,2,3,4,7,8-HxCDF	1.40e4	1.22	NO	0.920	10.005	33.534	33.52	1.000	1.000	4.8957		0.0751	4.90
12	12 1,2,3,6,7,8-HxCDF	3.29e3	1.17	NO	0.936	10.005	33.680	33.68	1.001	1.001	1.2368		0.0862	1.24
13	13 2,3,4,6,7,8-HxCDF	1.74e3	1.11	NO	0.973	10.005	34.372	34.39	1.001	1.001	0.63497		0.0851	0.635
14	14 1,2,3,7,8,9-HxCDF	6.97e2	0.90	YES	0.940	10.005	35.440	35.47	1.000	1.001	0.29131		0.111	0.250
15	15 1,2,3,4,6,7,8-HpCDF	2.14e4	1.01	NO	1.05	10.005	37.087	37.09	1.000	1.001	10.568		0.135	10.6
16	16 1,2,3,4,7,8,9-HpCDF	2.16e3	0.92	NO	1.05	10.005	38.950	38.95	1.000	1.000	1.2820		0.146	1.28
17	17 OCDF	5.89e4	0.87	NO	0.771	10.005	41.712	41.75	1.000	1.001	46.250		0.216	46.2
18	18 13C-2,3,7,8-TCDD	6.54e5	0.78	NO	1.10	10.005	26.670	26.70	1.027	1.028	113.52	56.8	0.129	
19	19 13C-1,2,3,7,8-PeCDD	6.47e5	0.65	NO	0.864	10.005	31.051	31.11	1.196	1.198	143.63	71.8	0.130	
20	20 13C-1,2,3,4,7,8-HxCDD	4.46e5	1.29	NO	0.746	10.005	34.454	34.46	1.014	1.014	144.06	72.1	0.276	
21	21 13C-1,2,3,6,7,8-HxCDD	5.17e5	1.26	NO	0.847	10.005	34.573	34.59	1.017	1.018	147.33	73.7	0.243	
22	22 13C-1,2,3,7,8,9-HxCDD	5.24e5	1.23	NO	0.868	10.005	34.872	34.87	1.026	1.026	145.47	72.8	0.237	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.58e5	1.03	NO	0.664	10.005	38.220	38.30	1.125	1.127	129.86	65.0	0.449	
24	24 13C-OCDD	5.41e5	0.89	NO	0.561	10.005	41.166	41.38	1.211	1.218	232.55	58.2	0.400	
25	25 13C-2,3,7,8-TCDF	1.28e6	0.77	NO	1.09	10.005	26.059	26.06	1.003	1.003	155.67	77.9	0.0970	
26	26 13C-1,2,3,7,8-PeCDF	9.82e5	1.59	NO	0.809	10.005	29.781	29.91	1.147	1.152	161.15	80.6	0.401	
27	27 13C-2,3,4,7,8-PeCDF	9.64e5	1.59	NO	0.803	10.005	30.742	30.92	1.184	1.191	159.48	79.8	0.404	
28	28 13C-1,2,3,4,7,8-HxCDF	6.21e5	0.50	NO	1.01	10.005	33.526	33.52	0.987	0.986	148.07	74.1	0.374	
29	29 13C-1,2,3,6,7,8-HxCDF	5.68e5	0.48	NO	1.07	10.005	33.655	33.66	0.990	0.990	127.64	63.8	0.352	
30	30 13C-2,3,4,6,7,8-HxCDF	5.64e5	0.50	NO	0.910	10.005	34.345	34.35	1.011	1.011	149.46	74.8	0.416	
31	31 13C-1,2,3,7,8,9-HxCDF	5.09e5	0.50	NO	0.828	10.005	35.423	35.43	1.042	1.042	148.21	74.1	0.456	

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_16.qld

Last Altered: Monday, June 21, 2021 12:51:03 Pacific Daylight Time

Printed: Monday, June 21, 2021 12:54:21 Pacific Daylight Time

Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.86e5	0.42	NO	0.661	10.005	37.030	37.07	1.090	1.091	140.92	70.5	0.330	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.23e5	0.42	NO	0.566	10.005	38.790	38.94	1.141	1.146	137.47	68.8	0.385	
34	34 13C-OCDF	6.60e5	0.90	NO	0.663	10.005	41.553	41.70	1.223	1.227	240.16	60.1	0.378	
35	35 37Cl-2,3,7,8-TCDD	7.75e5			2.07	10.005	26.870	26.71	1.035	1.028	71.857	89.9	0.0240	
36	36 13C-1,2,3,4-TCDD	1.04e6	0.76	NO	1.00	10.005	26.070	25.97	1.000	1.000	199.91	100	0.142	
37	37 13C-1,2,3,4-TCDF	1.51e6	0.79	NO	1.00	10.005	24.760	24.64	1.000	1.000	199.91	100	0.106	
38	38 13C-1,2,3,4,6,9-HxCDF	8.29e5	0.51	NO	1.00	10.005	34.040	33.99	1.000	1.000	199.91	100	0.378	
39	39 Total Tetra-Dioxins				0.929	10.005	24.620		0.000		0.83524		0.0709	1.70
40	40 Total Penta-Dioxins				0.826	10.005	29.960		0.000		1.2379		0.215	2.26
41	41 Total Hexa-Dioxins				0.877	10.005	33.635		0.000		12.976		0.127	13.8
42	42 Total Hepta-Dioxins				0.899	10.005	37.640		0.000		92.130		0.355	92.1
43	43 Total Tetra-Furans				0.747	10.005	23.610		0.000		5.8993		0.0702	6.30
44	44 1st Func. Penta-Furans				0.877	10.005	27.620		0.000		2.8503		0.0133	2.85
45	45 Total Penta-Furans				0.877	10.005	29.275		0.000		7.2698		0.0612	7.27
46	46 Total Hexa-Furans				0.973	10.005	33.555		0.000		17.205		0.0857	17.5
47	47 Total Hepta-Furans				1.05	10.005	37.835		0.000		35.703		0.140	35.7

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Dataset: U:\VG12.PRO\Results\210604R3\210604R3_16.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.28	6.730e3	9.114e3	4.974e2	6.753e2	0.74	NO	1.173e3	0.38597	0.38597	0.0709
2	Total Tetra-Dioxins	23.58	3.680e3	8.000e3	2.188e2	4.010e2	0.55	YES	0.000e0	0.00000	0.16556	0.0709
3	Total Tetra-Dioxins	24.06	3.811e3	3.279e3	2.008e2	2.228e2	0.90	YES	0.000e0	0.00000	0.12979	0.0709
4	Total Tetra-Dioxins	24.80	5.528e3	6.209e3	3.406e2	3.851e2	0.88	NO	7.256e2	0.23884	0.23884	0.0709
5	Total Tetra-Dioxins	24.97	1.828e3	2.138e3	1.435e2	1.627e2	0.88	NO	3.062e2	0.10080	0.10080	0.0709
6	Total Tetra-Dioxins	25.20	1.942e3	2.877e3	1.329e2	2.002e2	0.66	NO	3.331e2	0.10964	0.10964	0.0709
7	Total Tetra-Dioxins	26.43	9.634e3	1.190e4	6.453e2	7.067e2	0.91	YES	0.000e0	0.00000	0.41170	0.0709
8	2,3,7,8-TCDD	26.71	5.074e3	1.344e4	2.051e2	9.046e2	0.23	YES	1.110e3	0.00000	0.15521	0.0709

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.95	1.042e4	1.861e4	6.512e2	1.194e3	0.55	NO	1.845e3	0.69050	0.69050	0.215
2	Total Penta-Dioxins	29.40	5.524e3	8.133e3	2.635e2	4.222e2	0.62	NO	6.857e2	0.25662	0.25662	0.215
3	Total Penta-Dioxins	29.91	9.857e3	9.273e3	3.805e2	4.277e2	0.89	YES	0.000e0	0.00000	0.26088	0.215
4	Total Penta-Dioxins	30.07	6.216e3	1.016e4	2.887e2	3.821e2	0.76	YES	0.000e0	0.00000	0.23309	0.215
5	Total Penta-Dioxins	30.10	4.902e3	6.766e3	2.194e2	2.973e2	0.74	YES	0.000e0	0.00000	0.18136	0.215
6	Total Penta-Dioxins	30.37	4.521e3	1.318e4	2.989e2	5.997e2	0.50	YES	0.000e0	0.00000	0.28940	0.215
7	Total Penta-Dioxins	30.67	1.501e3	3.389e3	5.809e1	1.223e2	0.48	YES	0.000e0	0.00000	0.056249	0.215
8	1,2,3,7,8-PeCDD	31.12	5.622e3	1.199e4	2.932e2	4.838e2	0.61	NO	7.770e2	0.29078	0.29078	0.215

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Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.75	1.147e5	9.280e4	5.536e3	4.379e3	1.26	NO	9.915e3	4.5588	4.5588	0.127
2	Total Hexa-Dioxins	33.38	1.463e4	1.101e4	7.405e2	5.498e2	1.35	NO	1.290e3	0.59324	0.59324	0.127
3	Total Hexa-Dioxins	33.68	9.554e4	8.607e4	6.245e3	5.101e3	1.22	NO	1.135e4	5.2164	5.2164	0.127
4	Total Hexa-Dioxins	33.75	7.200e3	5.692e3	3.924e2	2.848e2	1.38	NO	0.000e0	0.00000	0.31137	0.127
5	1,2,3,4,7,8-HxCDD	34.48	6.989e3	6.406e3	4.420e2	3.041e2	1.45	YES	7.460e2	0.00000	0.31406	0.119
6	1,2,3,6,7,8-HxCDD	34.59	3.858e4	3.335e4	2.157e3	1.725e3	1.25	NO	3.882e3	1.7099	1.7099	0.125
7	Total Hexa-Dioxins	34.78	5.352e3	3.092e3	2.776e2	1.588e2	1.75	YES	0.000e0	0.00000	0.16355	0.127
8	1,2,3,7,8,9-HxCDD	34.90	2.037e4	1.306e4	1.156e3	8.994e2	1.29	NO	2.055e3	0.89737	0.89737	0.125

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.42	6.860e5	6.812e5	3.986e4	3.912e4	1.02	NO	7.898e4	49.108	49.108	0.355
2	1,2,3,4,6,7,8-HpCDD	38.31	6.401e5	6.218e5	3.529e4	3.390e4	1.04	NO	6.919e4	43.022	43.022	0.355

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Last Altered: Monday, June 21, 2021 12:51:03 Pacific Daylight Time

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Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.21	2.047e3	3.356e3	1.869e2	2.466e2	0.76	NO	4.335e2	0.090597	0.090597	0.0702
2	Total Tetra-Furans	21.74	3.336e3	5.201e3	2.567e2	4.043e2	0.64	YES	0.000e0	0.00000	0.12333	0.0702
3	Total Tetra-Furans	22.53	1.716e4	2.540e4	1.434e3	2.041e3	0.70	NO	3.475e3	0.72620	0.72620	0.0702
4	Total Tetra-Furans	22.96	5.467e3	6.983e3	3.945e2	5.193e2	0.76	NO	9.138e2	0.19095	0.19095	0.0702
5	Total Tetra-Furans	23.33	1.250e4	1.878e4	1.096e3	1.487e3	0.74	NO	2.583e3	0.53988	0.53988	0.0702
6	Total Tetra-Furans	23.74	1.012e4	1.216e4	7.252e2	9.880e2	0.73	NO	1.713e3	0.35802	0.35802	0.0702
7	Total Tetra-Furans	23.86	2.986e3	5.434e3	2.215e2	3.257e2	0.68	NO	5.473e2	0.11436	0.11436	0.0702
8	Total Tetra-Furans	24.06	5.519e3	6.656e3	3.398e2	4.256e2	0.80	NO	7.654e2	0.15995	0.15995	0.0702
9	Total Tetra-Furans	24.74	1.030e4	1.343e4	7.824e2	1.004e3	0.78	NO	1.786e3	0.37330	0.37330	0.0702
10	Total Tetra-Furans	25.16	4.237e4	5.851e4	2.580e3	3.580e3	0.72	NO	6.160e3	1.2873	1.2873	0.0702
11	Total Tetra-Furans	25.45	3.920e3	4.421e3	2.108e2	3.019e2	0.70	NO	5.127e2	0.10714	0.10714	0.0702
12	Total Tetra-Furans	25.97	8.307e3	1.071e4	4.828e2	5.731e2	0.84	NO	1.056e3	0.22065	0.22065	0.0702
13	2,3,7,8-TCDF	26.07	4.918e4	7.367e4	3.333e3	4.431e3	0.75	NO	7.765e3	1.6226	1.6226	0.0702
14	Total Tetra-Furans	26.37	6.812e3	6.085e3	3.903e2	4.143e2	0.94	YES	0.000e0	0.00000	0.15324	0.0702
15	Total Tetra-Furans	27.46	5.479e3	9.173e3	2.586e2	4.301e2	0.60	YES	0.000e0	0.00000	0.12421	0.0702
16	Total Tetra-Furans	27.85	4.451e3	6.104e3	2.218e2	2.969e2	0.75	NO	5.187e2	0.10840	0.10840	0.0702

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.43	1.230e5	7.834e4	7.563e3	4.610e3	1.64	NO	1.217e4	2.8503	2.8503	0.0133

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Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.83	9.033e3	5.559e3	6.110e2	4.150e2	1.47	NO	1.026e3	0.24023	0.24023	0.0612
2	Total Penta-Furans	28.98	9.244e4	5.382e4	5.098e3	3.416e3	1.49	NO	8.514e3	1.9935	1.9935	0.0612
3	Total Penta-Furans	29.58	1.771e4	1.020e4	1.189e3	7.079e2	1.68	NO	1.897e3	0.44423	0.44423	0.0612
4	Total Penta-Furans	29.73	1.578e4	9.943e3	7.620e2	4.304e2	1.77	NO	1.192e3	0.27920	0.27920	0.0612
5	1,2,3,7,8-PeCDF	29.93	1.098e5	6.252e4	5.780e3	3.446e3	1.68	NO	9.226e3	2.1407	2.1407	0.0624
6	Total Penta-Furans	30.17	4.143e4	2.301e4	2.003e3	1.261e3	1.59	NO	3.264e3	0.76425	0.76425	0.0612
7	Total Penta-Furans	30.77	4.681e3	3.818e3	2.152e2	1.509e2	1.43	NO	3.661e2	0.085720	0.085720	0.0612
8	2,3,4,7,8-PeCDF	30.94	6.029e4	4.285e4	3.759e3	2.376e3	1.58	NO	6.135e3	1.3219	1.3219	0.0547

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.21	3.338e4	2.625e4	1.683e3	1.298e3	1.30	NO	2.981e3	1.0832	1.0832	0.0857
2	Total Hexa-Furans	32.38	1.099e5	9.649e4	5.309e3	4.326e3	1.23	NO	9.636e3	3.5018	3.5018	0.0857
3	Total Hexa-Furans	32.81	2.202e3	1.992e3	1.059e2	9.260e1	1.14	NO	1.985e2	0.072146	0.072146	0.0857
4	Total Hexa-Furans	33.05	1.567e5	1.231e5	8.244e3	6.832e3	1.21	NO	1.508e4	5.4791	5.4791	0.0857
5	1,2,3,4,7,8-HxCDF	33.52	1.433e5	1.356e5	7.690e3	6.305e3	1.22	NO	1.400e4	4.8957	4.8957	0.0751
6	1,2,3,6,7,8-HxCDF	33.68	3.010e4	2.785e4	1.778e3	1.514e3	1.17	NO	3.292e3	1.2368	1.2368	0.0862
7	2,3,4,6,7,8-HxCDF	34.39	1.366e4	1.159e4	9.151e2	8.266e2	1.11	NO	1.742e3	0.63497	0.63497	0.0851
8	1,2,3,7,8,9-HxCDF	35.47	1.267e4	1.112e4	3.309e2	3.664e2	0.90	YES	6.973e2	0.00000	0.24972	0.111
9	Total Hexa-Furans	35.48	1.459e4	9.740e3	4.809e2	3.482e2	1.38	NO	8.292e2	0.30134	0.30134	0.0857

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.09	1.762e5	1.722e5	1.076e4	1.064e4	1.01	NO	2.140e4	10.568	10.568	0.135
2	Total Hepta-Furans	37.73	3.929e5	4.066e5	2.195e4	2.238e4	0.98	NO	4.433e4	23.853	23.853	0.140
3	1,2,3,4,7,8,9-HpCDF	38.95	1.976e4	2.193e4	1.037e3	1.125e3	0.92	NO	2.163e3	1.2820	1.2820	0.146

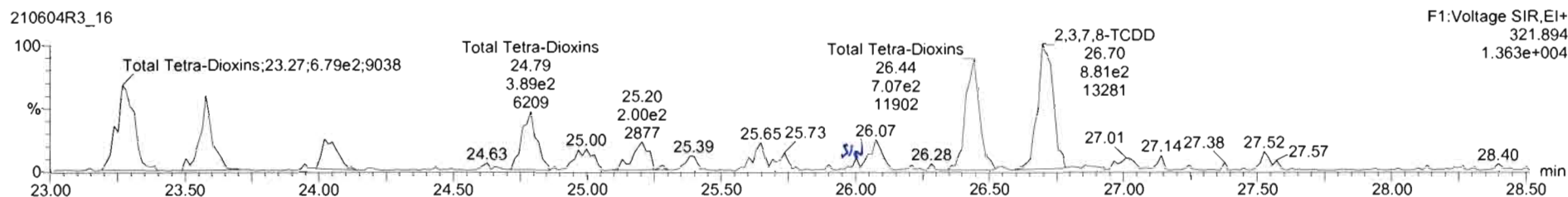
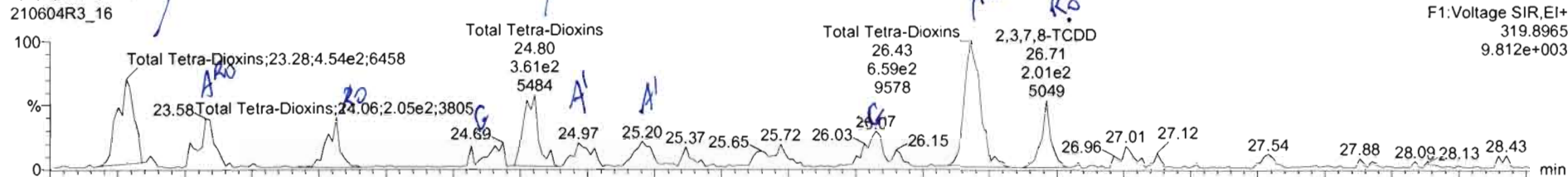
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Printed: Saturday, June 05, 2021 10:34:14 AM Pacific Daylight Time

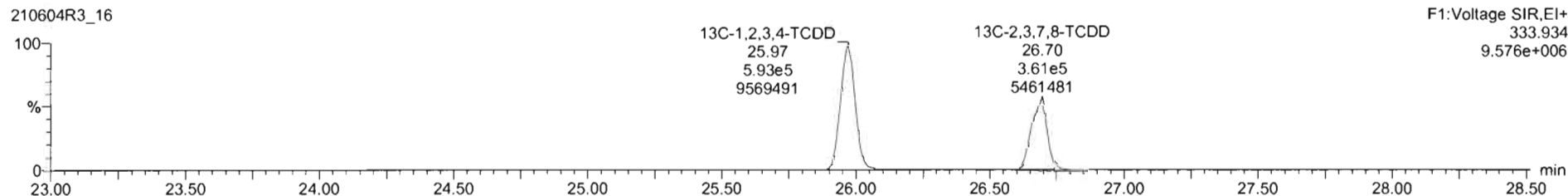
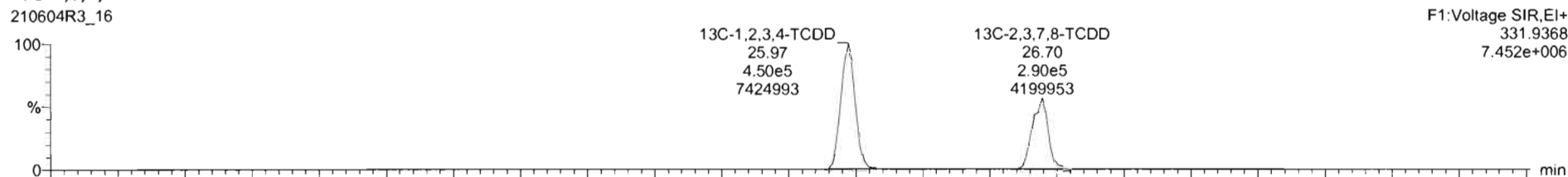
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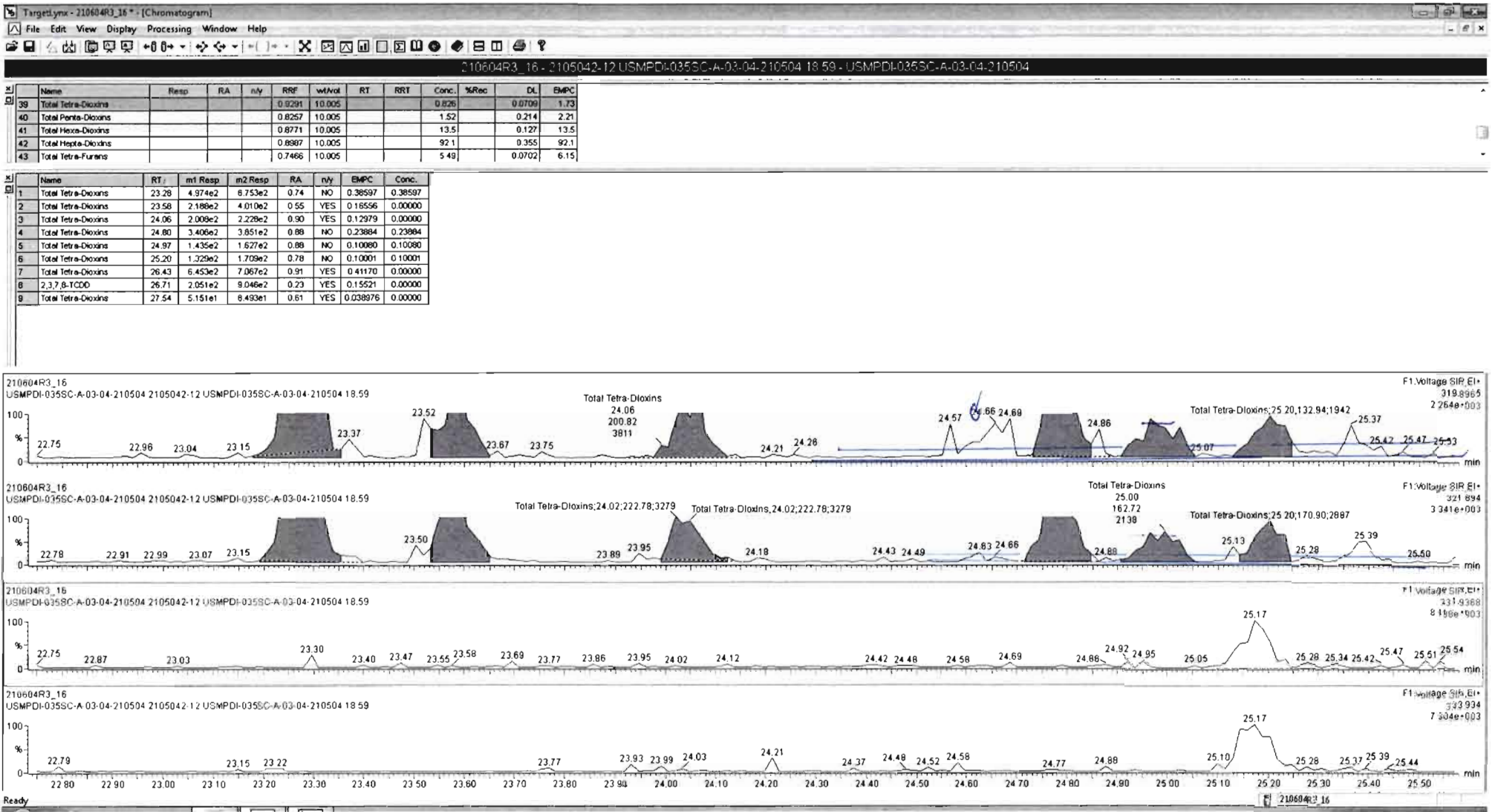
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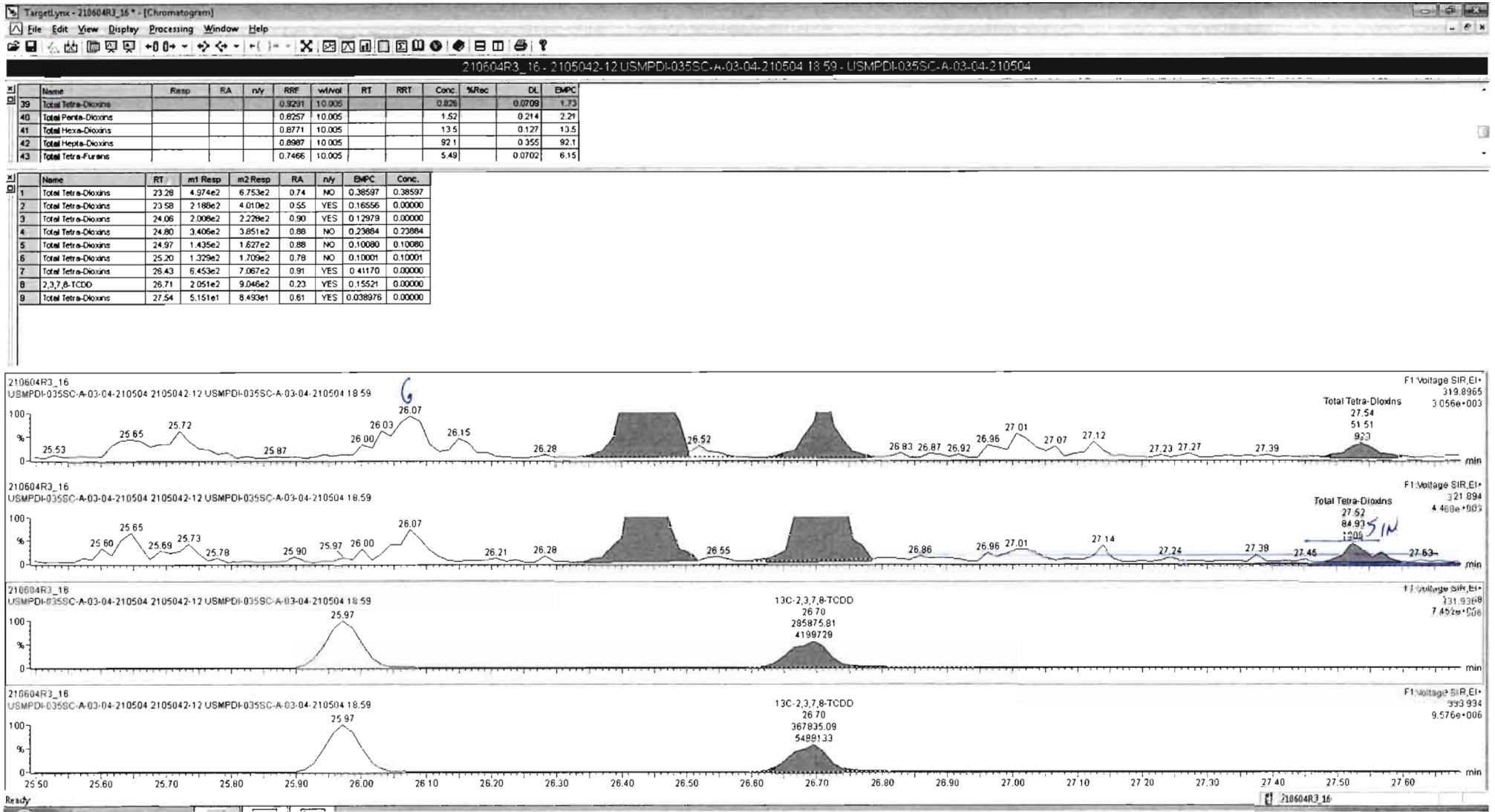
2,3,7,8-TCDD



13C-2,3,7,8-TCDD







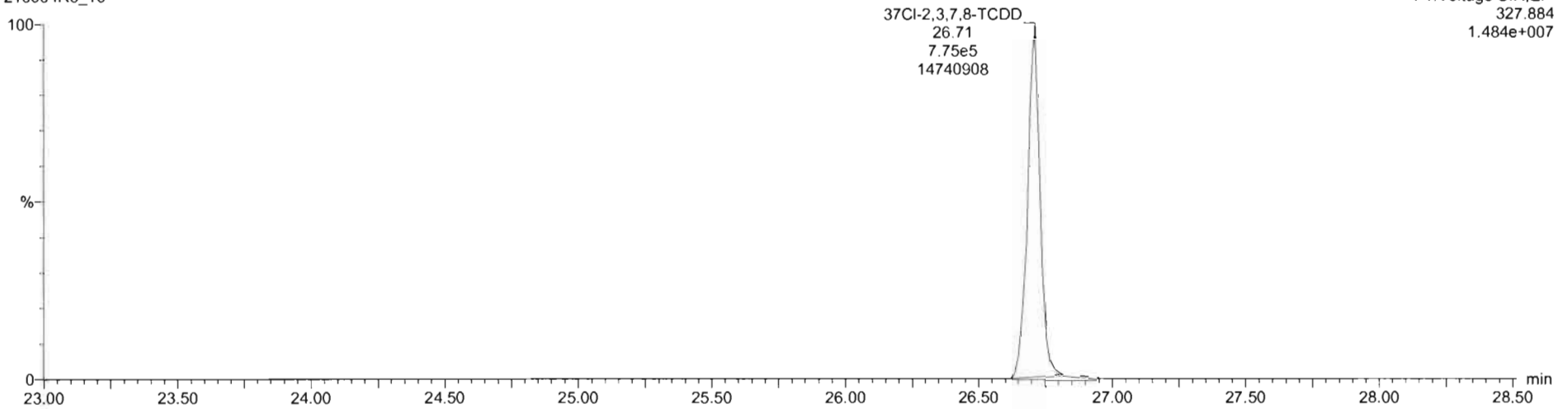
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Printed: Saturday, June 05, 2021 10:34:14 AM Pacific Daylight Time

Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

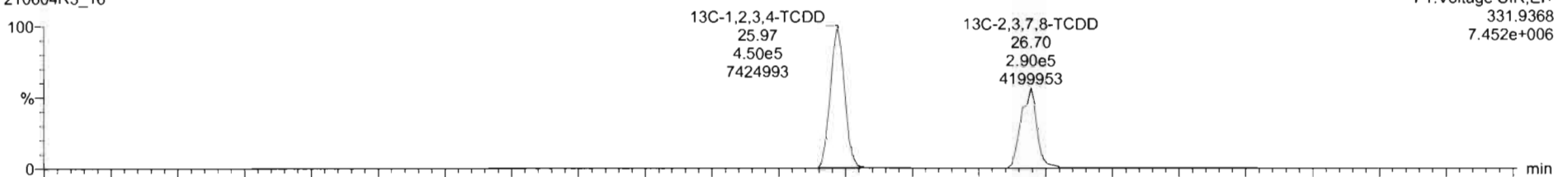
37Cl-2,3,7,8-TCDD

210604R3_16

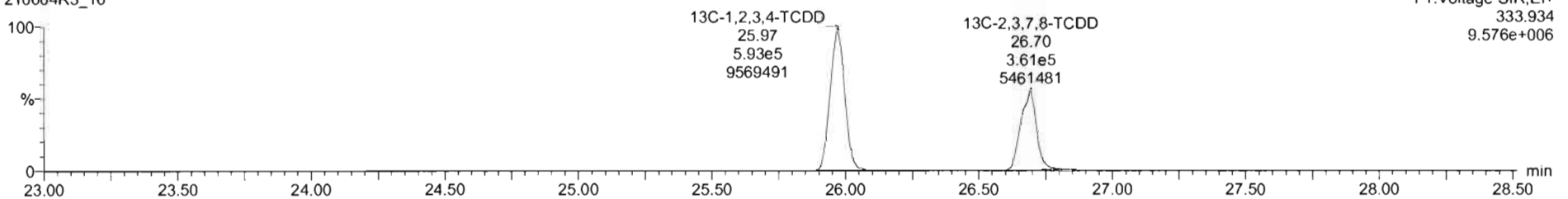


13C-1,2,3,4-TCDD

210604R3_16



210604R3_16

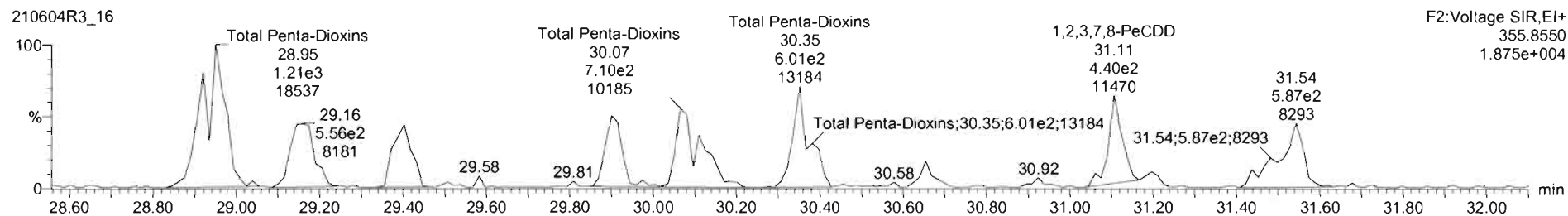
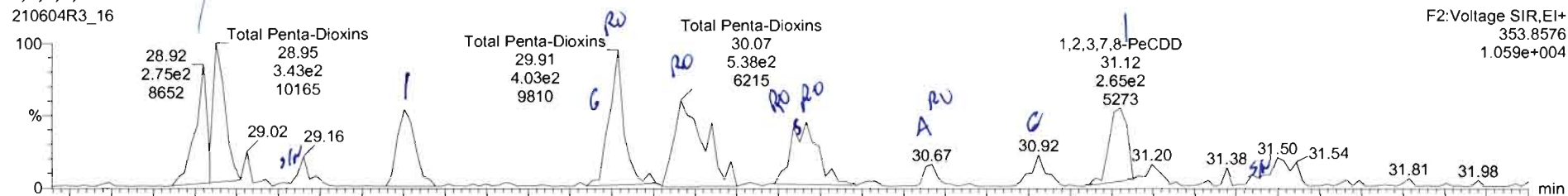


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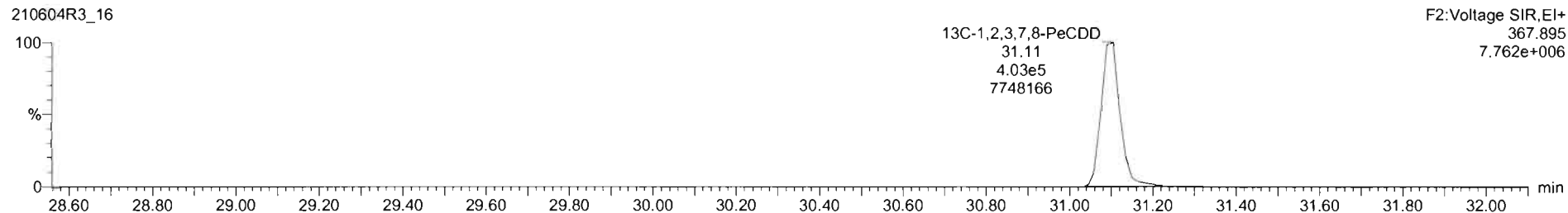
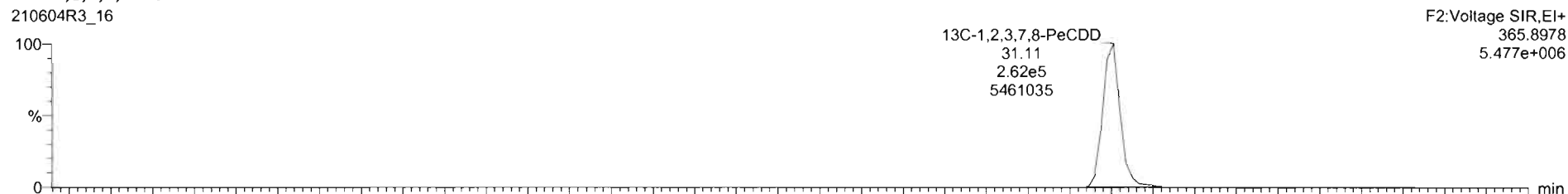
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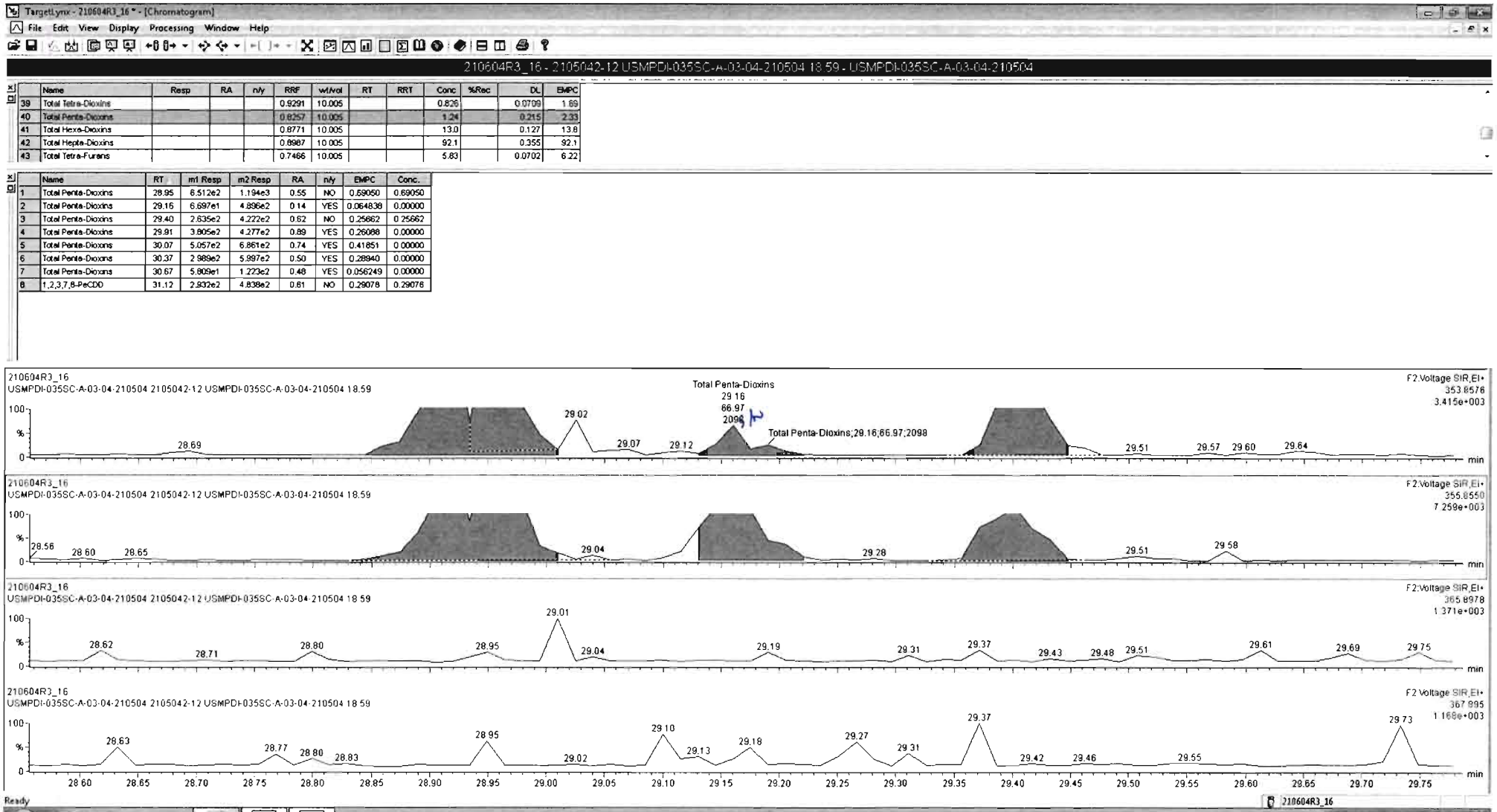
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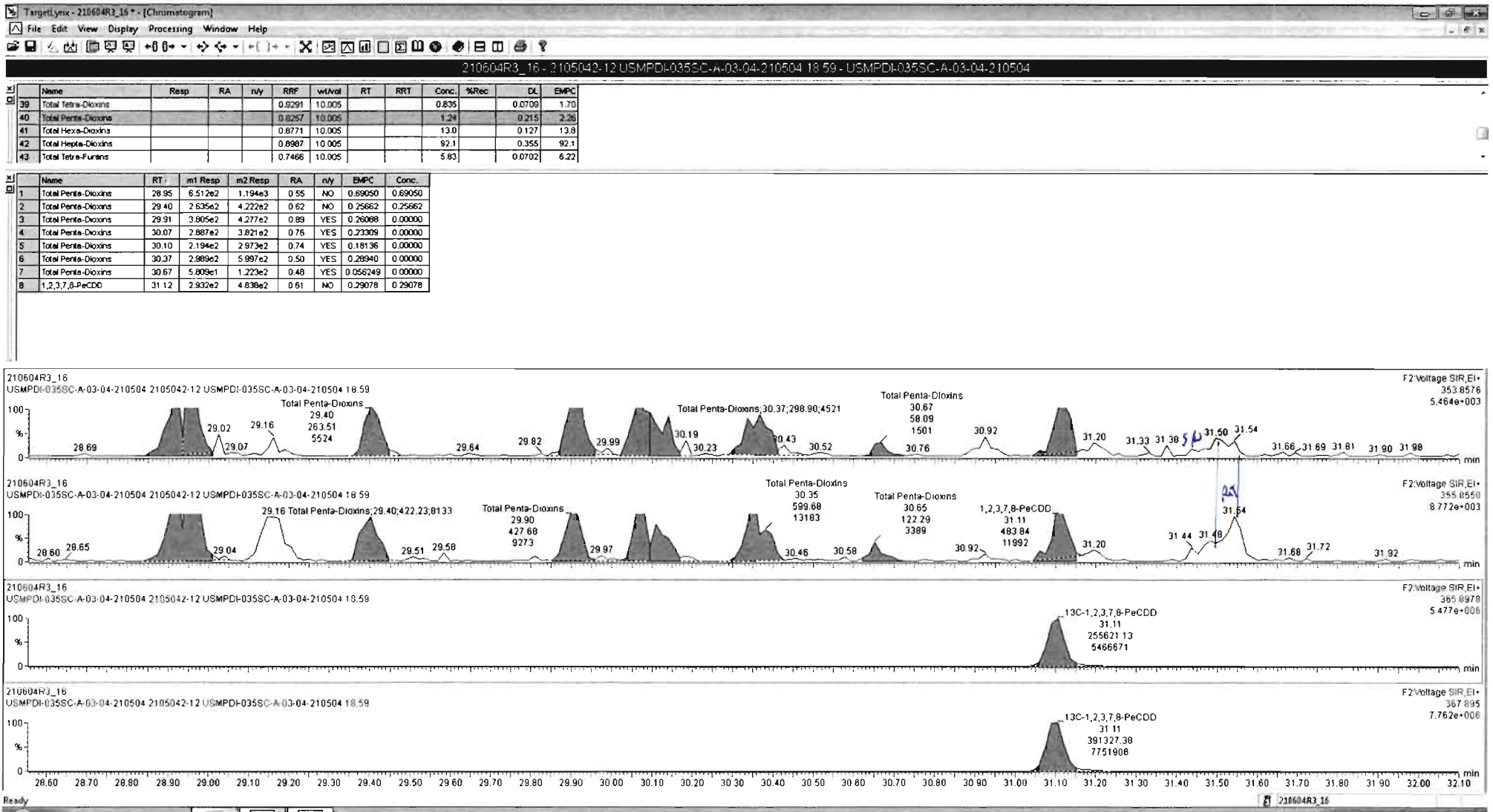
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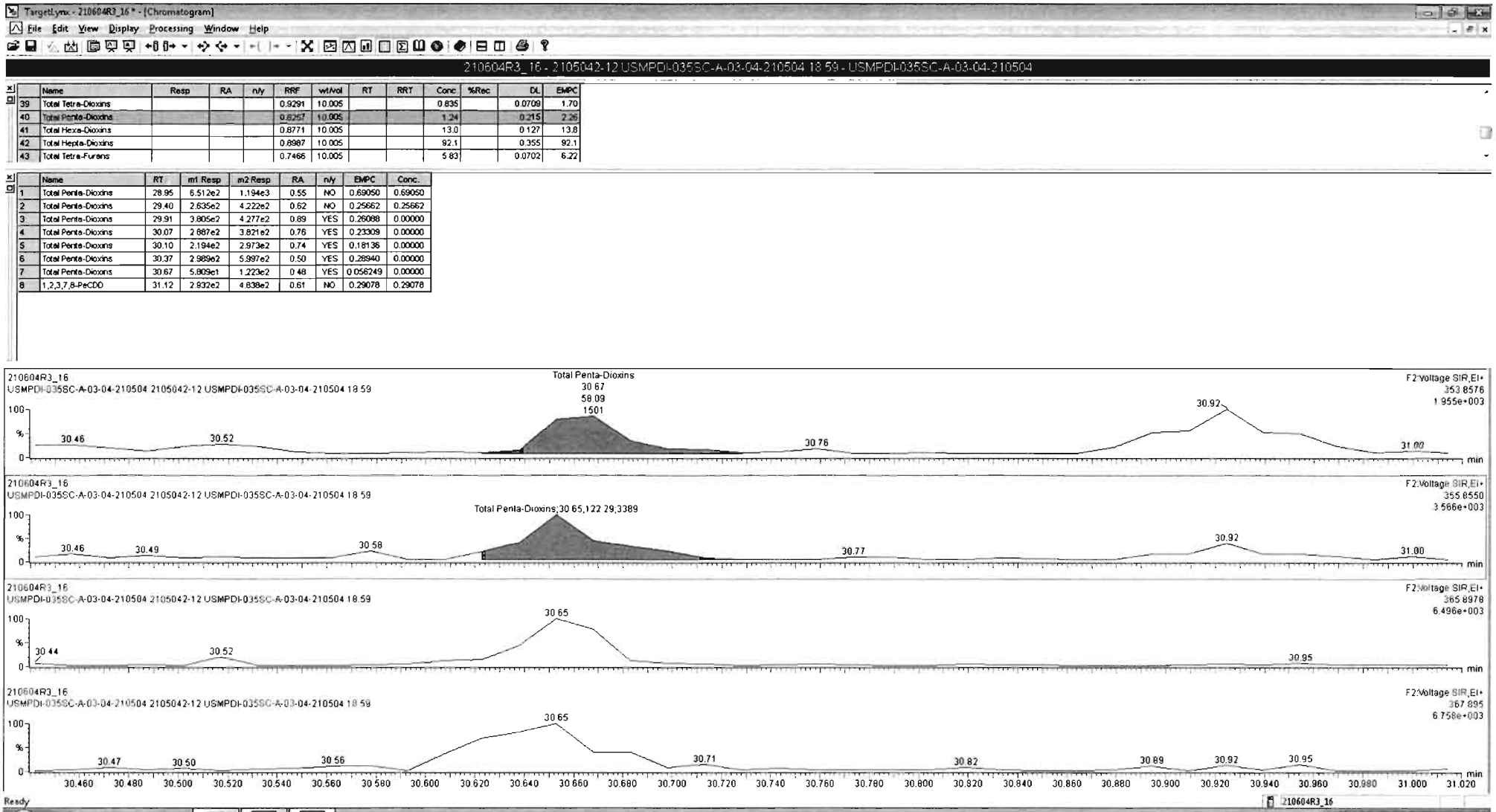


13C-1,2,3,7,8-PeCDD







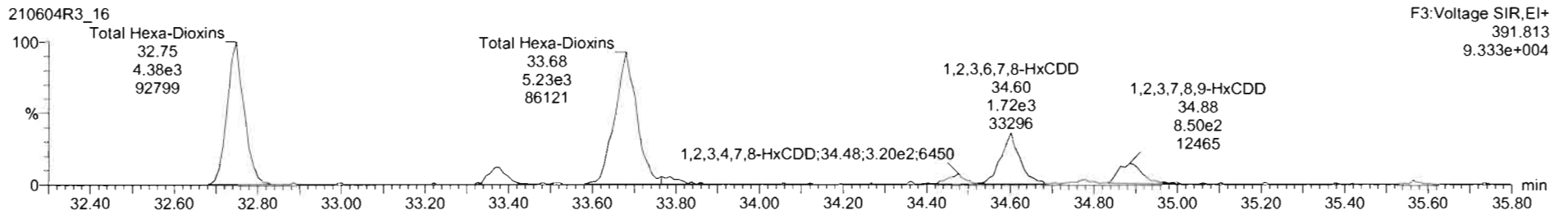
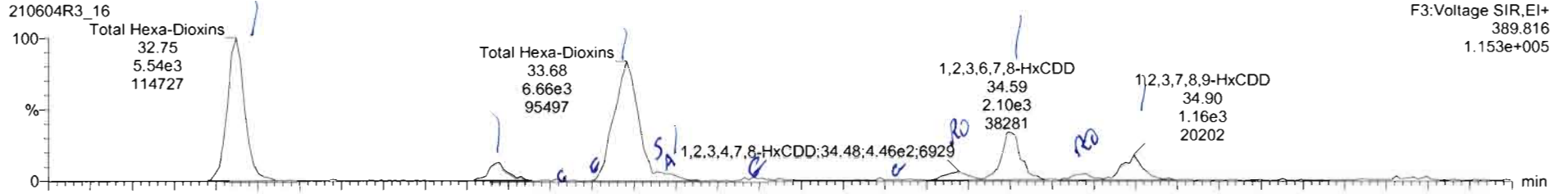


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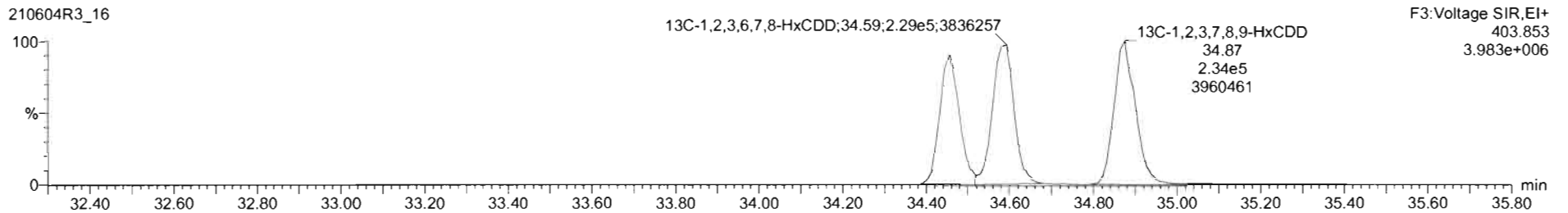
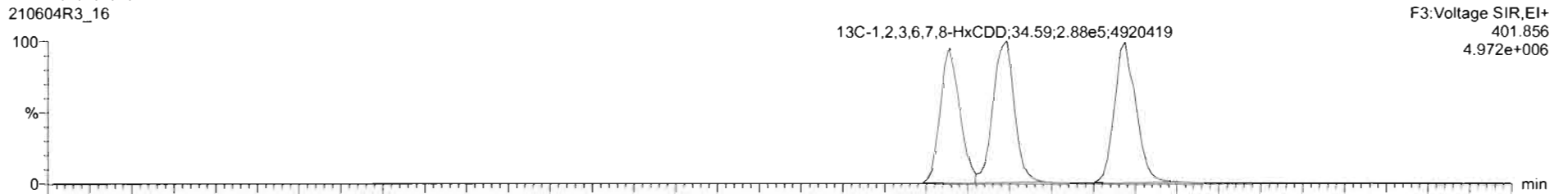
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1,2,3,4,7,8-HxCDD

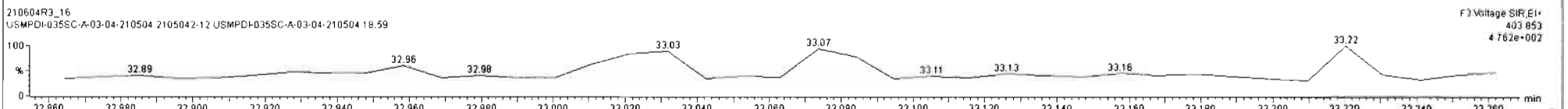
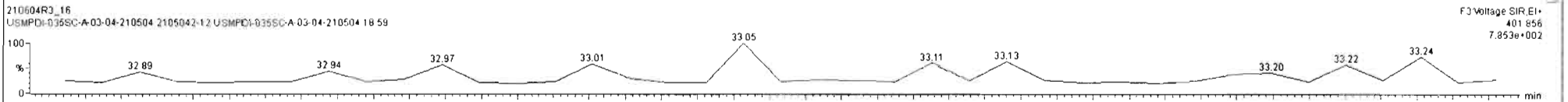
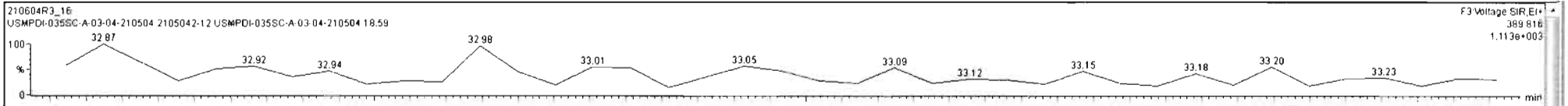


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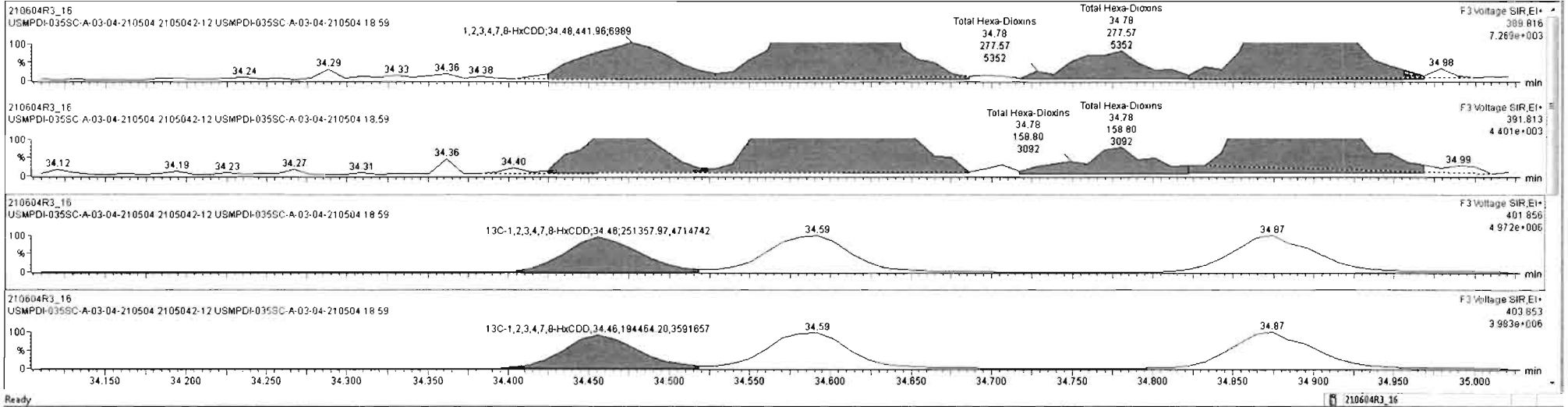
RT	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9291	10.005			0.835		0.0709	1.70
40	Total Penta-Dioxins				0.8257	10.005			1.24		0.215	2.26
41	Total Hexa-Dioxins				0.8771	10.005			13.0		0.127	13.8
42	Total Hepta-Dioxins				0.8987	10.005			92.1		0.355	92.1
43	Total Tetra-Furans				0.7486	10.005			5.83		0.0702	6.22

RT	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.75	5.536e3	4.379e3	1.26	NO	4.5588	4.5588
2	Total Hexa-Dioxins	33.38	7.405e2	5.489e2	1.35	NO	0.59324	0.59324
3	Total Hexa-Dioxins	33.68	6.245e3	5.101e3	1.22	NO	5.2164	5.2164
4	Total Hexa-Dioxins	33.75	3.924e2	2.848e2	1.38	NO	0.31137	0.00000
5	1,2,3,4,7,8-HxCDD	34.48	4.420e2	3.041e2	1.45	YES	0.31406	0.00000
6	1,2,3,6,7,8-HxCDD	34.59	2.157e3	1.725e3	1.25	NO	1.7099	1.7099
7	Total Hexa-Dioxins	34.78	2.776e2	1.599e2	1.74	YES	0.16471	0.00000
8	1,2,3,7,8,9-HxCDD	34.90	1.156e3	8.994e2	1.29	NO	0.89737	0.89737



#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9291	10.005			0.835		0.0709	1.70
40	Total Penta-Dioxins				0.8257	10.005			1.24		0.215	2.26
41	Total Hexa-Dioxins				0.8771	10.005			13.0		0.127	13.8
42	Total Hepta-Dioxins				0.6987	10.005			92.1		0.355	92.1
43	Total Tetra-Furans				0.7466	10.005			5.83		0.0702	6.22

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.75	5.536e3	4.379e3	1.26	NO	4.5588	4.5588
2	Total Hexa-Dioxins	33.38	7.405e2	5.498e2	1.35	NO	0.59324	0.59324
3	Total Hexa-Dioxins	33.68	6.245e3	5.101e3	1.22	NO	5.2164	5.2164
4	Total Hexa-Dioxins	33.75	3.924e2	2.848e2	1.38	NO	0.31137	0.00000
5	1,2,3,4,7,8-HxCDD	34.48	4.420e2	3.041e2	1.45	YES	0.31408	0.00000
6	1,2,3,6,7,8-HxCDD	34.59	2.157e3	1.725e3	1.25	NO	1.7099	1.7099
7	Total Hexa-Dioxins	34.78	2.776e2	1.588e2	1.75	YES	0.16355	0.00000
8	1,2,3,7,8,9-HxCDD	34.90	1.156e3	8.994e2	1.29	NO	0.89737	0.89737



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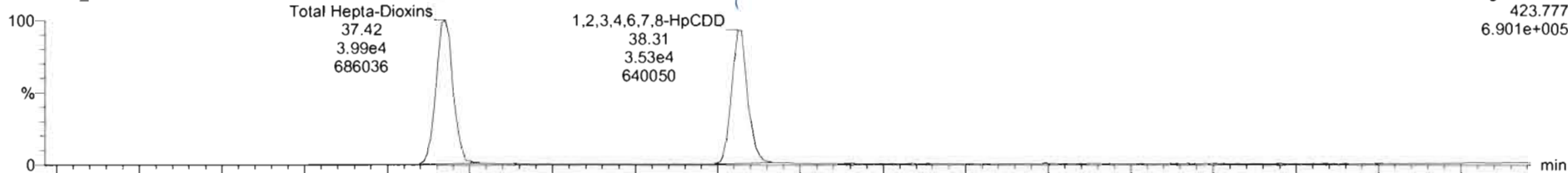
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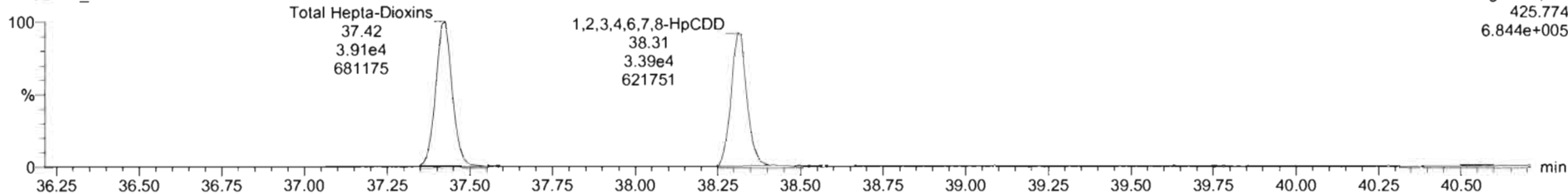
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1,2,3,4,6,7,8-HpCDD

210604R3_16

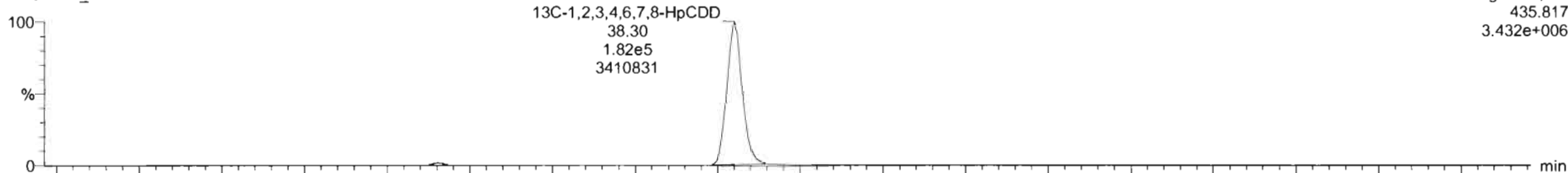


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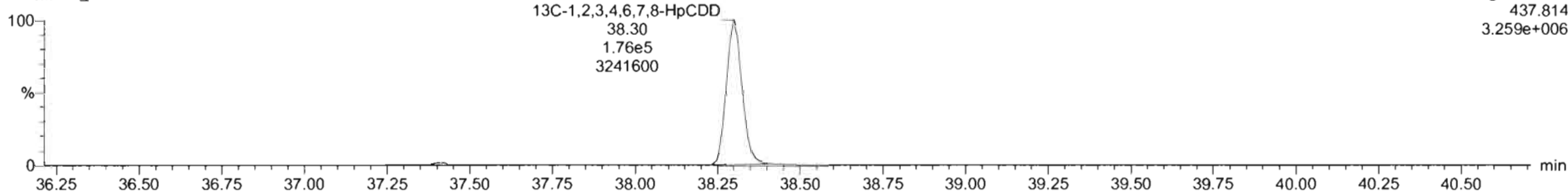


13C-1,2,3,4,6,7,8-HpCDD

210604R3_16



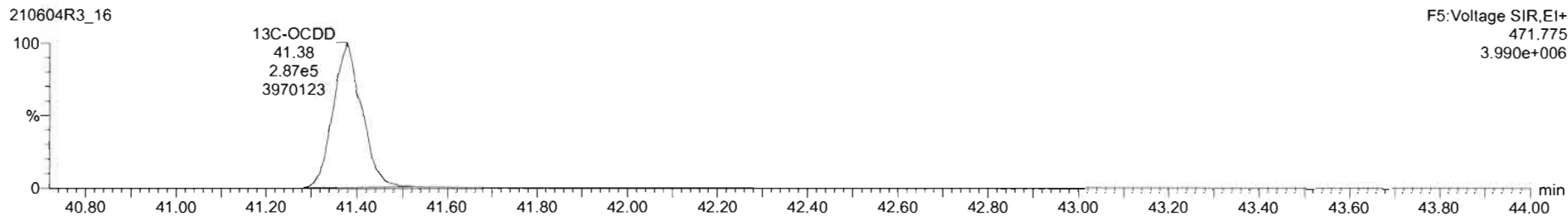
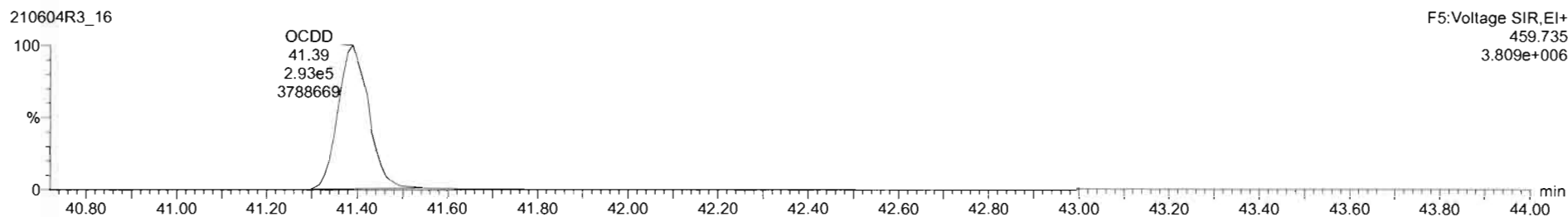
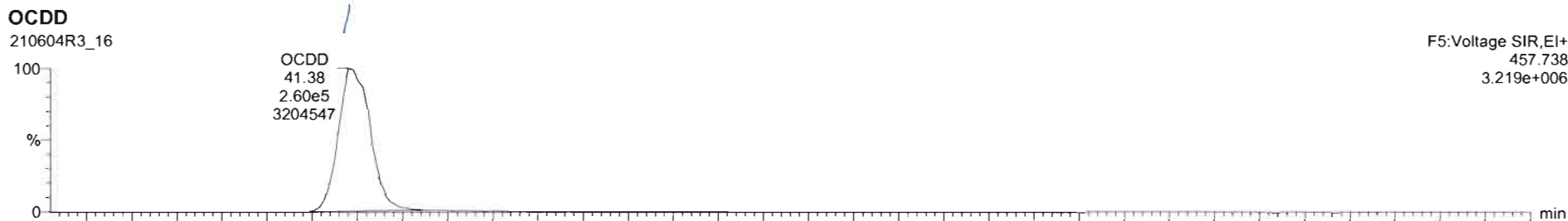
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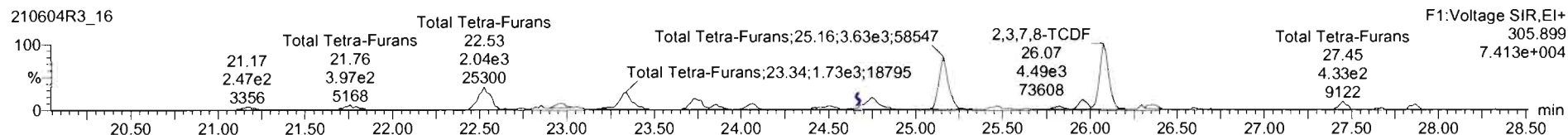
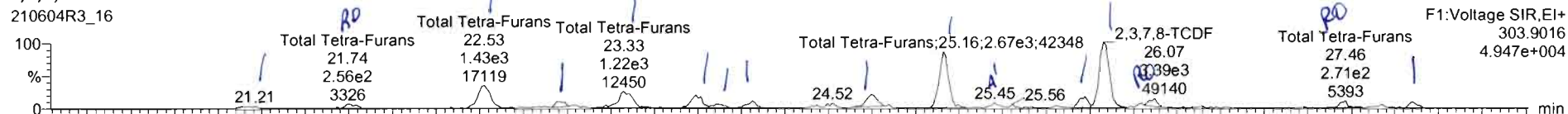


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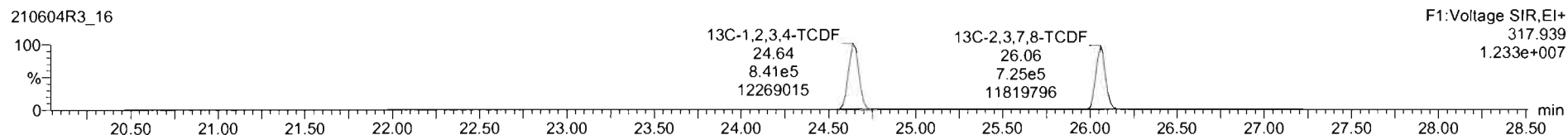
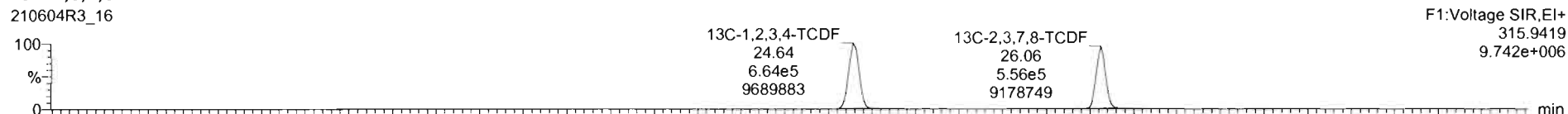
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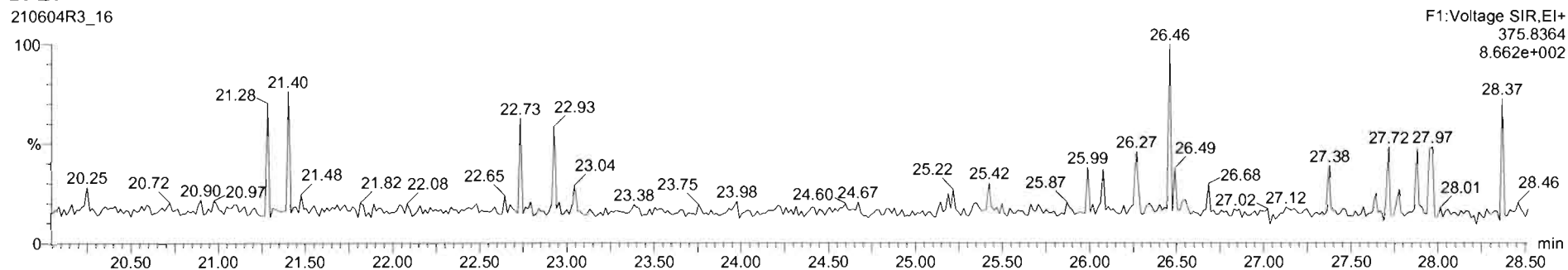
2,3,7,8-TCDF

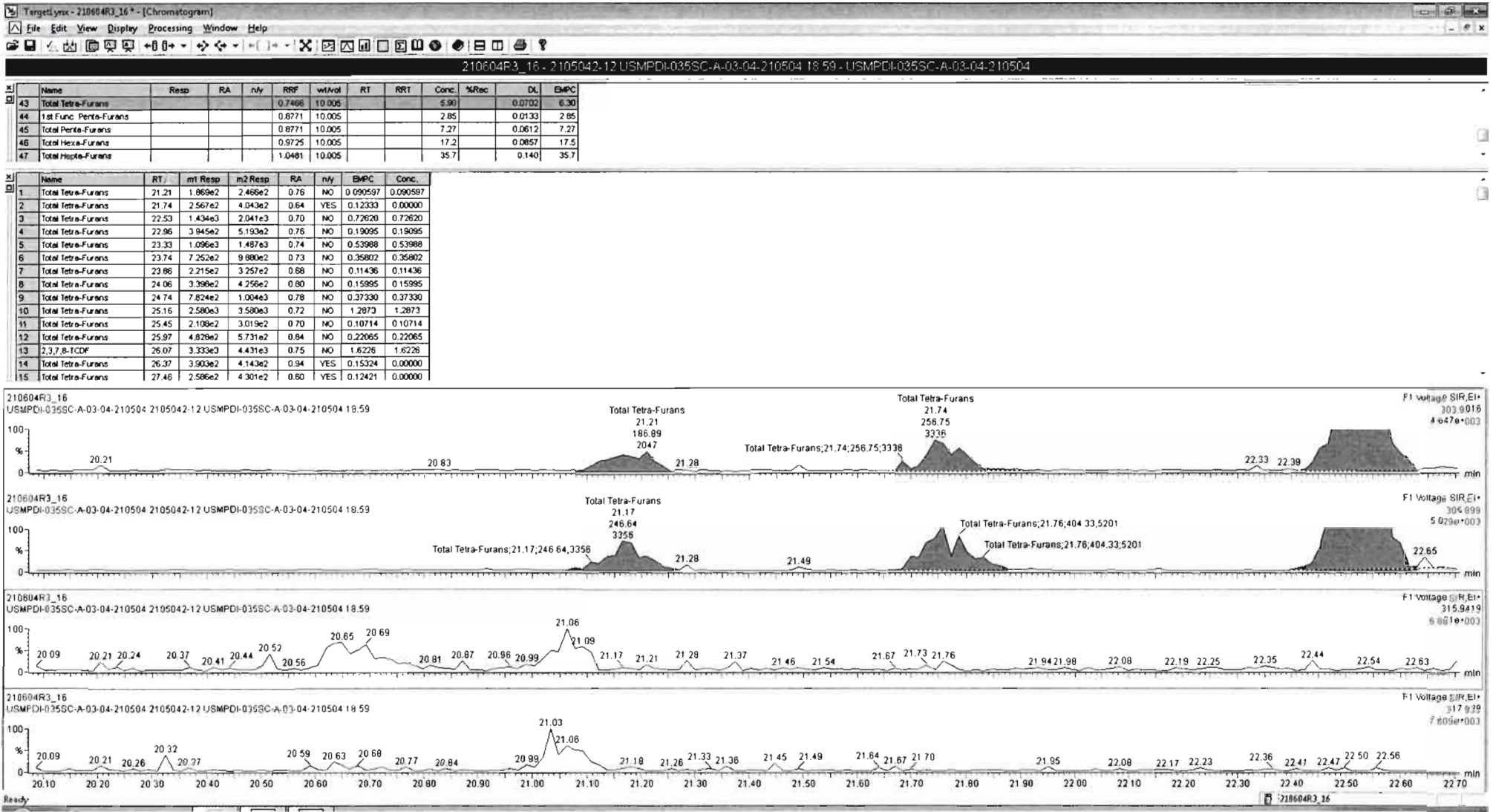


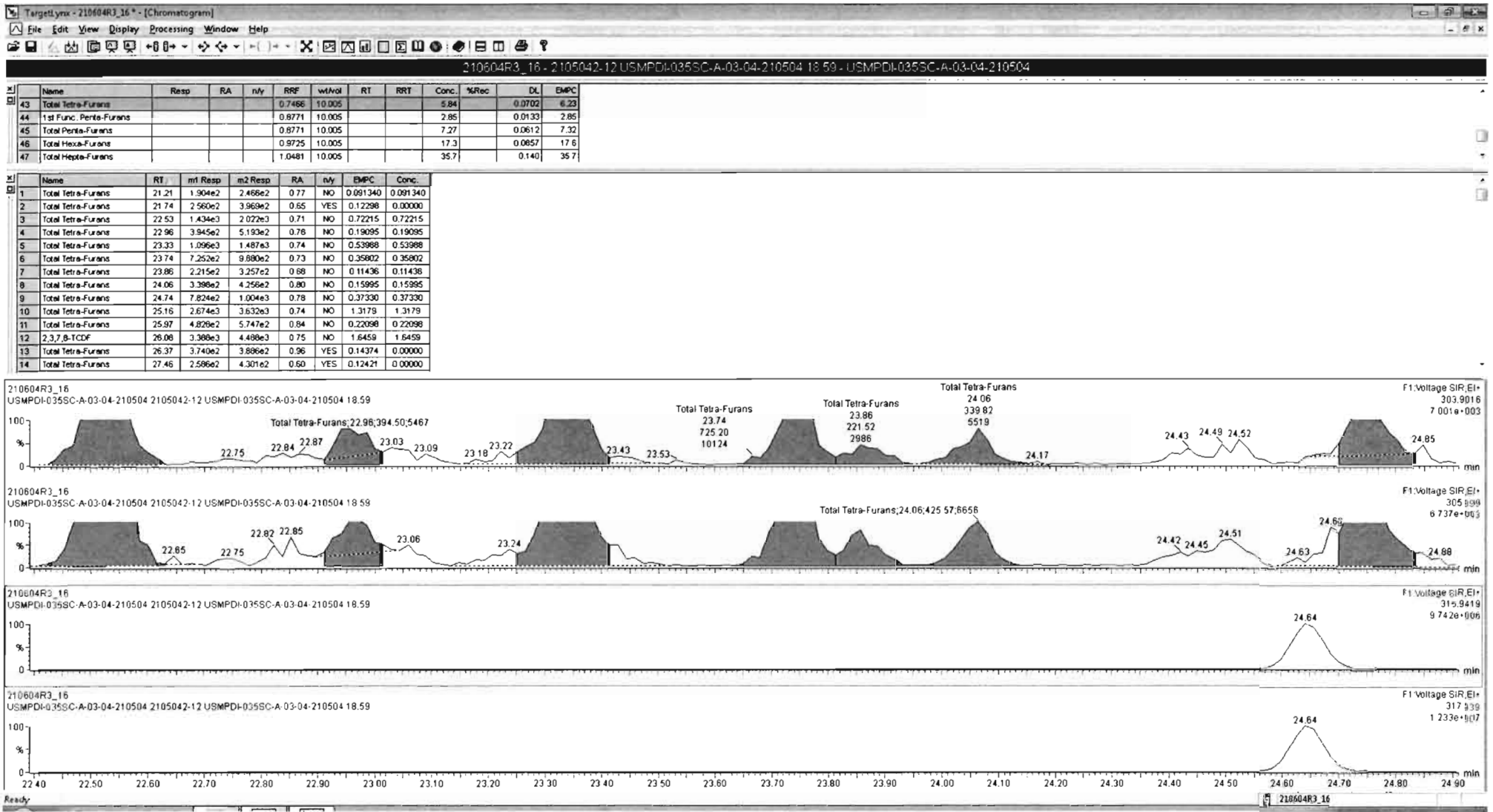
13C-2,3,7,8-TCDF



DPE1



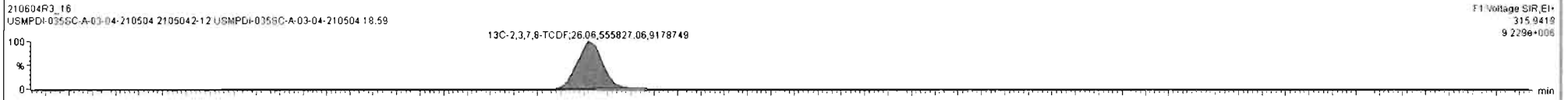
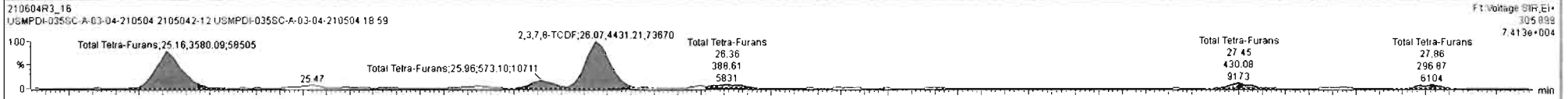
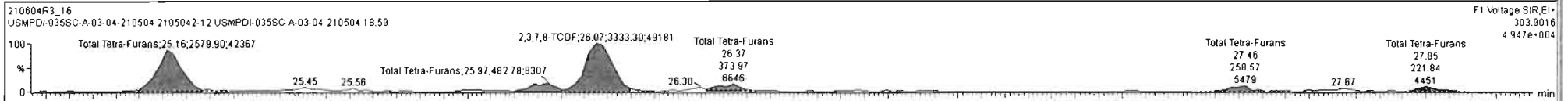




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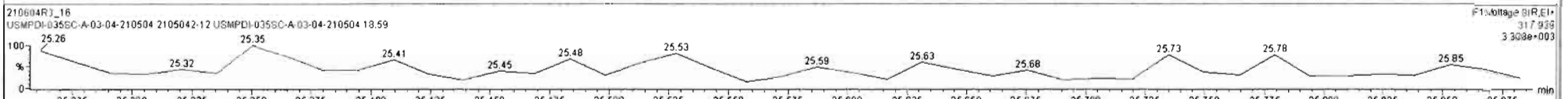
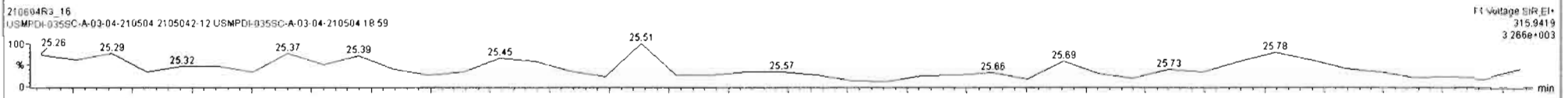
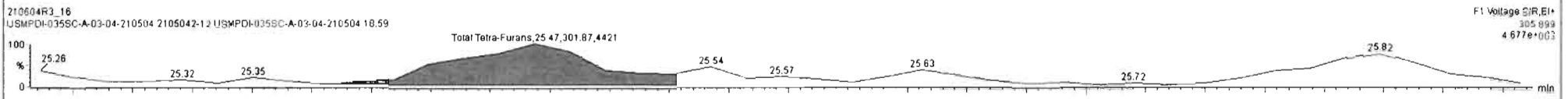
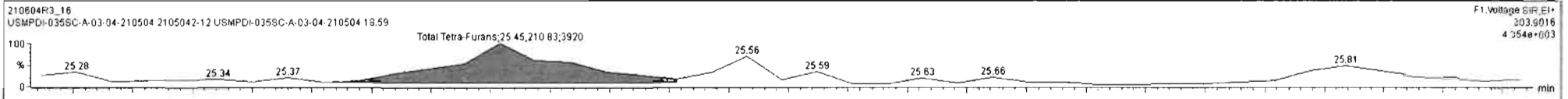
#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.005			5.79		0.0702	6.18
44	1st Func. Penta-Furans				0.8771	10.005			2.85		0.0133	2.85
45	Total Penta-Furans				0.8771	10.005			7.27		0.0612	7.32
46	Total Hexa-Furans				0.9725	10.005			17.3		0.0857	17.6
47	Total Hepta-Furans				1.0481	10.005			35.7		0.140	35.7

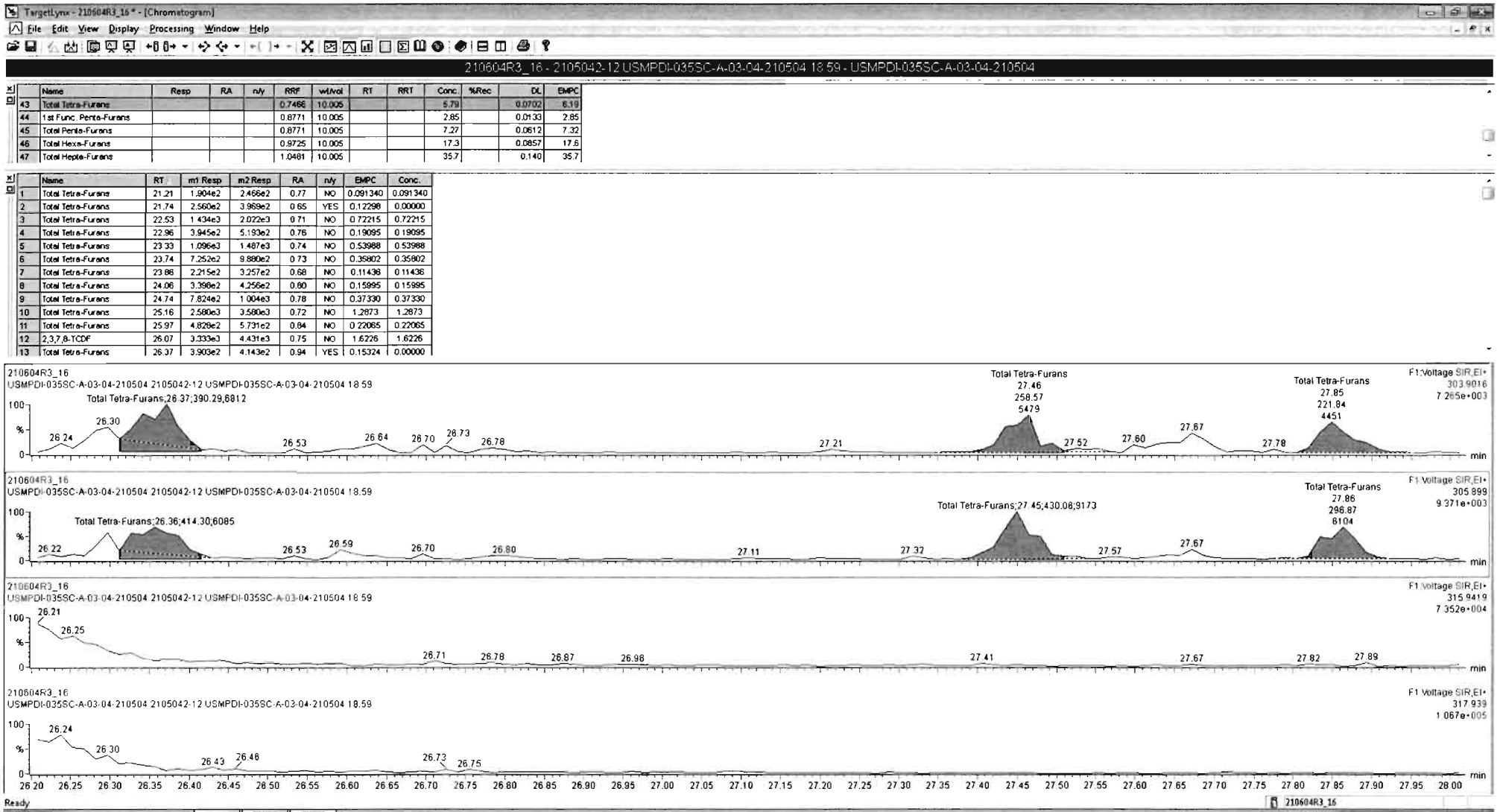
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	21.21	1.904e2	2.466e2	0.77	NO	0.091340	0.091340
2	Total Tetra-Furans	21.74	2.560e2	3.969e2	0.65	YES	0.12298	0.00000
3	Total Tetra-Furans	22.53	1.434e3	2.022e3	0.71	NO	0.72215	0.72215
4	Total Tetra-Furans	22.96	3.945e2	5.193e2	0.76	NO	0.19095	0.19095
5	Total Tetra-Furans	23.33	1.096e3	1.467e3	0.74	NO	0.53988	0.53988
6	Total Tetra-Furans	23.74	7.252e2	9.880e2	0.73	NO	0.35802	0.35802
7	Total Tetra-Furans	23.86	2.215e2	3.257e2	0.68	NO	0.11436	0.11436
8	Total Tetra-Furans	24.06	3.386e2	4.256e2	0.80	NO	0.15995	0.15995
9	Total Tetra-Furans	24.74	7.824e2	1.004e3	0.78	NO	0.37330	0.37330
10	Total Tetra-Furans	25.16	2.580e3	3.500e3	0.72	NO	1.2873	1.2873
11	Total Tetra-Furans	25.97	4.626e2	5.731e2	0.84	NO	0.22065	0.22065
12	2,3,7,8-TCDF	26.07	3.333e3	4.431e3	0.75	NO	1.6226	1.6226
13	Total Tetra-Furans	26.37	3.740e2	3.886e2	0.96	YES	0.14374	0.00000
14	Total Tetra-Furans	27.46	2.586e2	4.301e2	0.60	YES	0.12421	0.00000



#	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.005			5.90		0.0702	6.30
44	1st Func. Penta-Furans				0.8771	10.005			2.85		0.0133	2.85
45	Total Penta-Furans				0.8771	10.005			7.27		0.0612	7.32
46	Total Hexa-Furans				0.9725	10.005			17.3		0.0857	17.6
47	Total Hepta-Furans				1.0481	10.005			35.7		0.140	35.7

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	21.21	1.904e2	2.468e2	0.77	NO	0.091340	0.091340
2	Total Tetra-Furans	21.74	2.560e2	3.969e2	0.65	YES	0.12298	0.00000
3	Total Tetra-Furans	22.53	1.434e3	2.022e3	0.71	NO	0.72215	0.72215
4	Total Tetra-Furans	22.96	3.945e2	5.193e2	0.76	NO	0.19095	0.19095
5	Total Tetra-Furans	23.33	1.096e3	1.487e3	0.74	NO	0.53988	0.53988
6	Total Tetra-Furans	23.74	7.252e2	9.860e2	0.73	NO	0.35802	0.35802
7	Total Tetra-Furans	23.86	2.215e2	3.257e2	0.68	NO	0.11436	0.11436
8	Total Tetra-Furans	24.06	3.396e2	4.256e2	0.80	NO	0.15995	0.15995
9	Total Tetra-Furans	24.74	7.824e2	1.004e3	0.78	NO	0.37330	0.37330
10	Total Tetra-Furans	25.16	2.580e3	3.580e3	0.72	NO	1.2873	1.2873
11	Total Tetra-Furans	25.45	2.106e2	3.019e2	0.70	NO	0.10714	0.10714
12	Total Tetra-Furans	25.97	4.829e2	5.731e2	0.84	NO	0.22065	0.22065
13	2,3,7,8-TCDF	26.07	3.333e3	4.431e3	0.75	NO	1.6226	1.6226
14	Total Tetra-Furans	26.37	3.903e2	4.143e2	0.94	YES	0.15324	0.00000
15	Total Tetra-Furans	27.48	2.586e2	4.301e2	0.60	YES	0.12421	0.00000





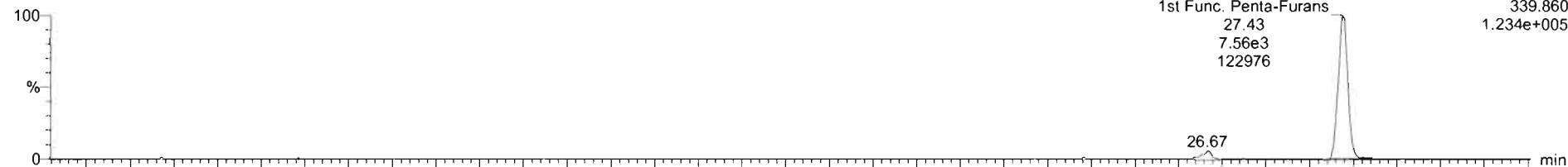
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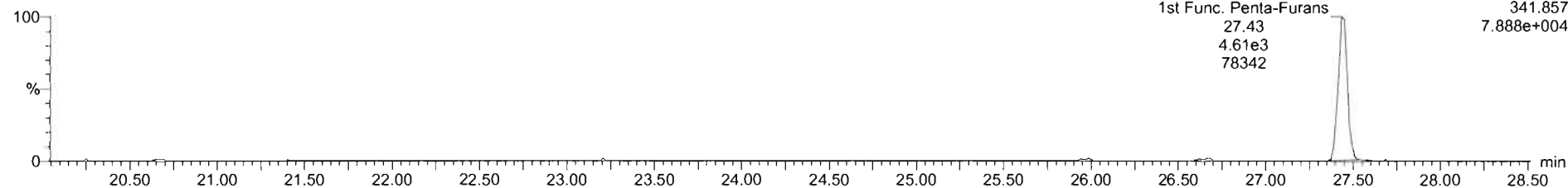
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1st Func. Penta-Furans

210604R3_16

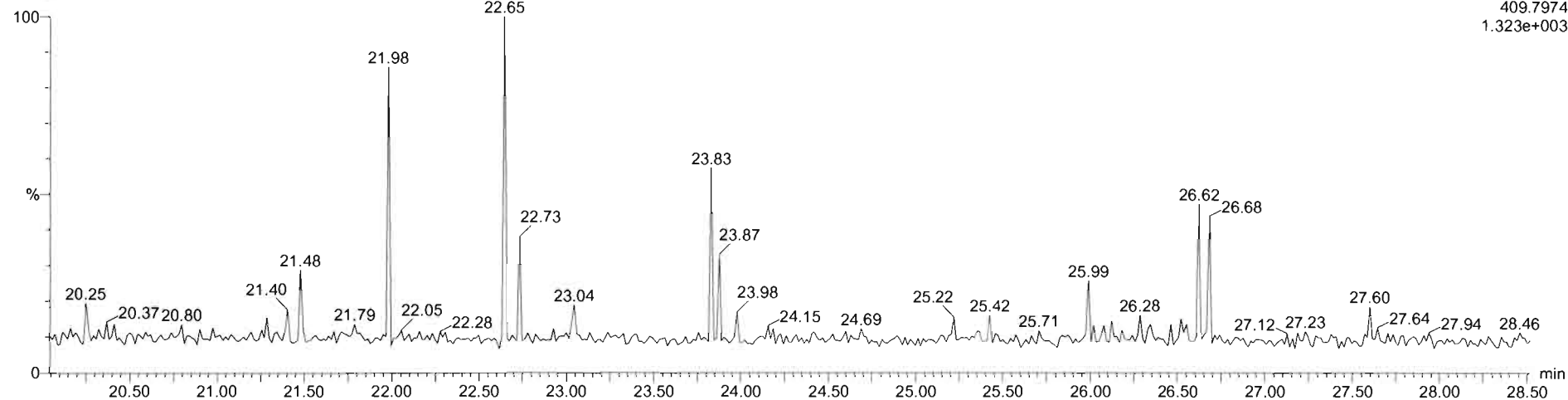


210604R3_16



DPE6

210604R3_16

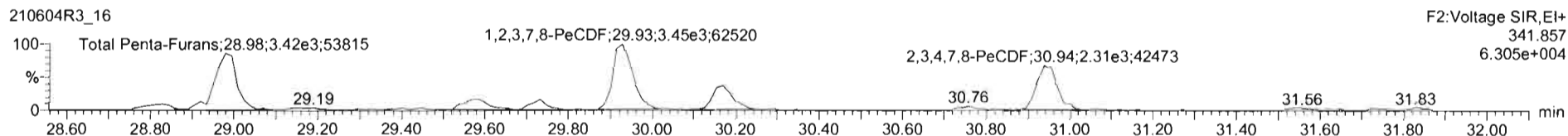
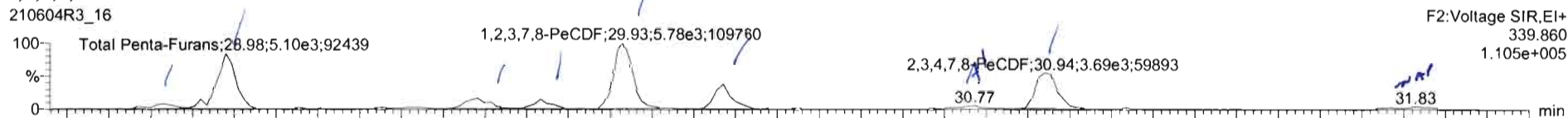


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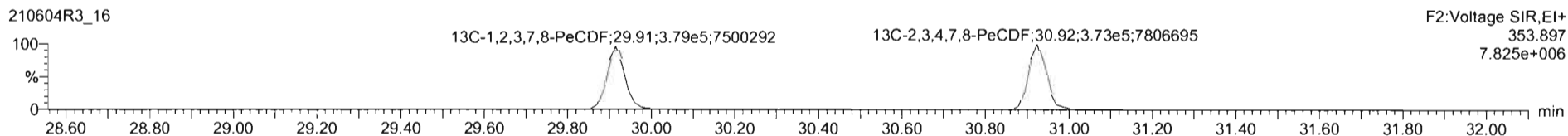
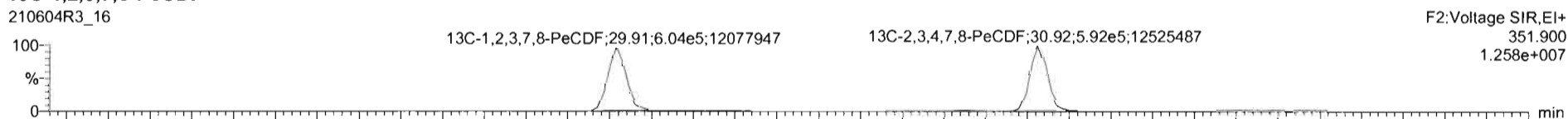
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Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

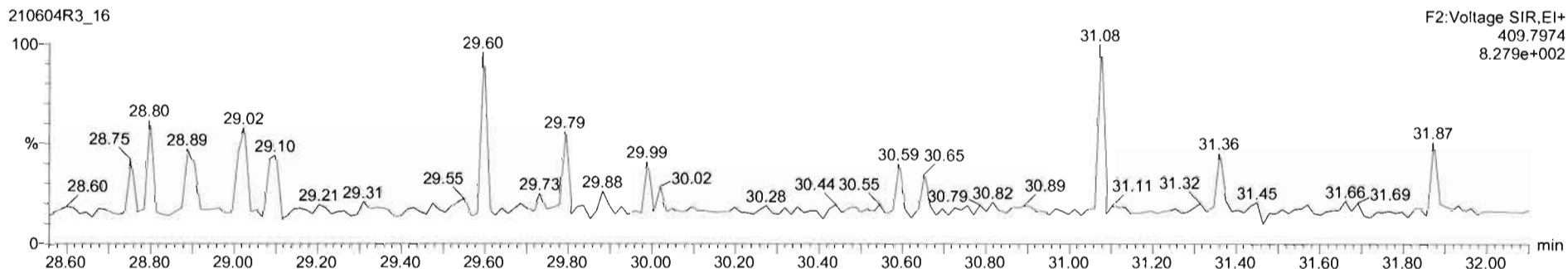
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF

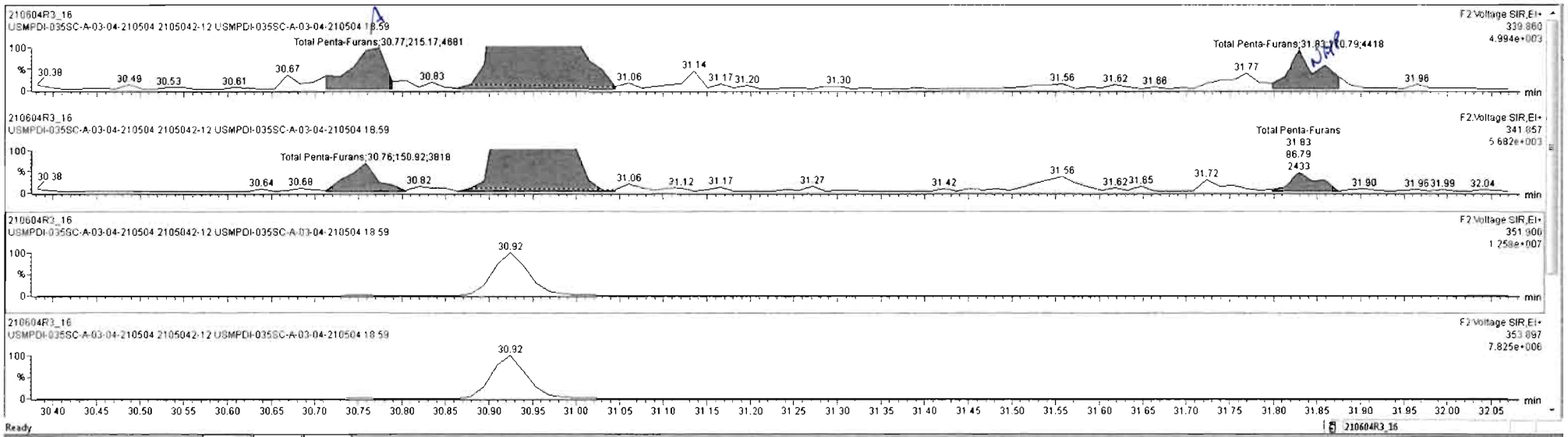


DPE2



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.005			5.90		0.0702	6.30
44	1st Func. Penta-Furans				0.8771	10.005			2.85		0.0133	2.85
45	Total Penta-Furans				0.6771	10.005			7.27		0.0612	7.32
46	Total Hexa-Furans				0.9725	10.005			17.3		0.0857	17.6
47	Total Hepta-Furans				1.0481	10.005			35.7		0.140	35.7

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	28.83	6.110e2	4.150e2	1.47	NO	0.24023	0.24023
2	Total Penta-Furans	28.96	5.096e3	3.416e3	1.49	NO	1.9835	1.9835
3	Total Penta-Furans	29.58	1.189e3	7.079e2	1.68	NO	0.44423	0.44423
4	Total Penta-Furans	29.73	7.620e2	4.304e2	1.77	NO	0.27920	0.27920
5	1,2,3,7,8-PeCDF	29.93	5.780e3	3.446e3	1.68	NO	2.1407	2.1407
6	Total Penta-Furans	30.17	2.003e3	1.261e3	1.59	NO	0.76425	0.76425
7	Total Penta-Furans	30.77	2.152e2	1.509e2	1.43	NO	0.085720	0.085720
8	2,3,4,7,8-PeCDF	30.94	3.759e3	2.376e3	1.56	NO	1.3219	1.3219
9	Total Penta-Furans	31.83	1.708e2	8.679e1	1.97	YES	0.051820	0.00000



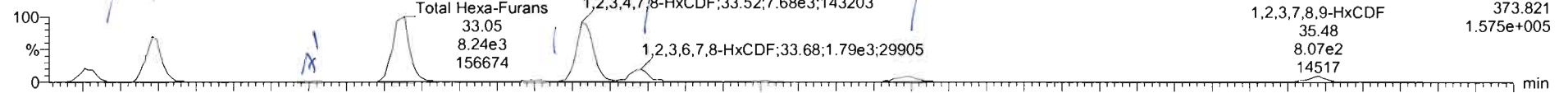
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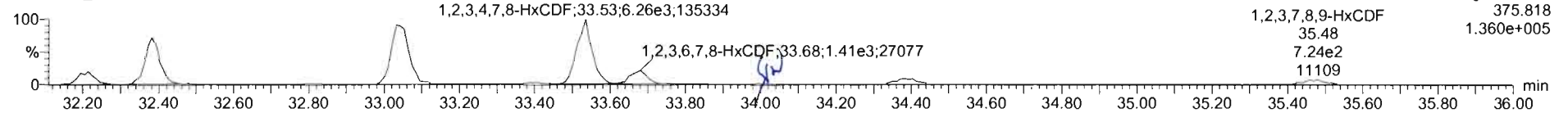
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Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

1,2,3,4,7,8-HxCDF

210604R3_16

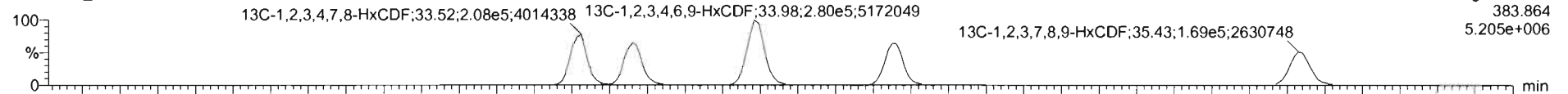


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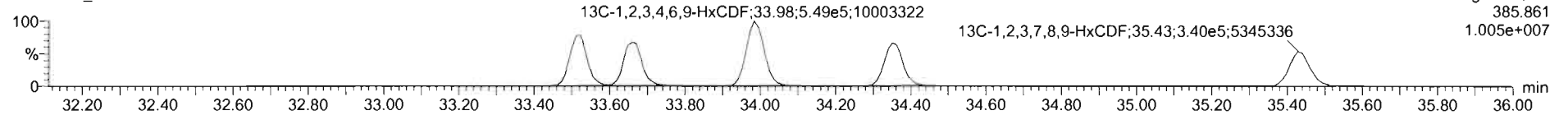


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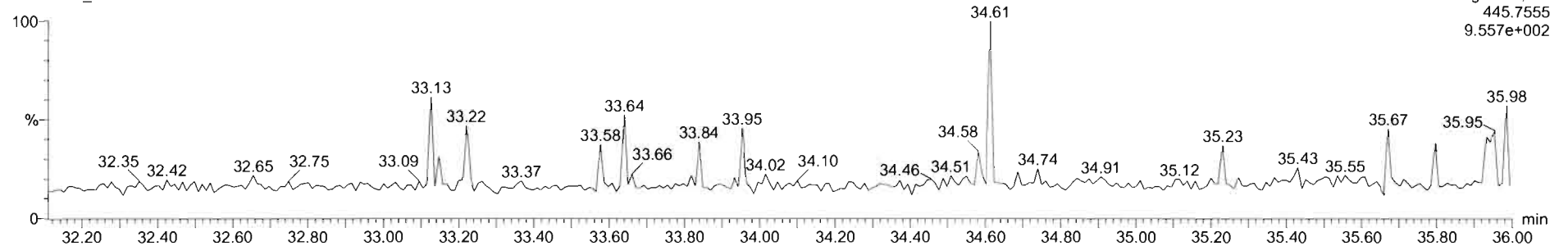


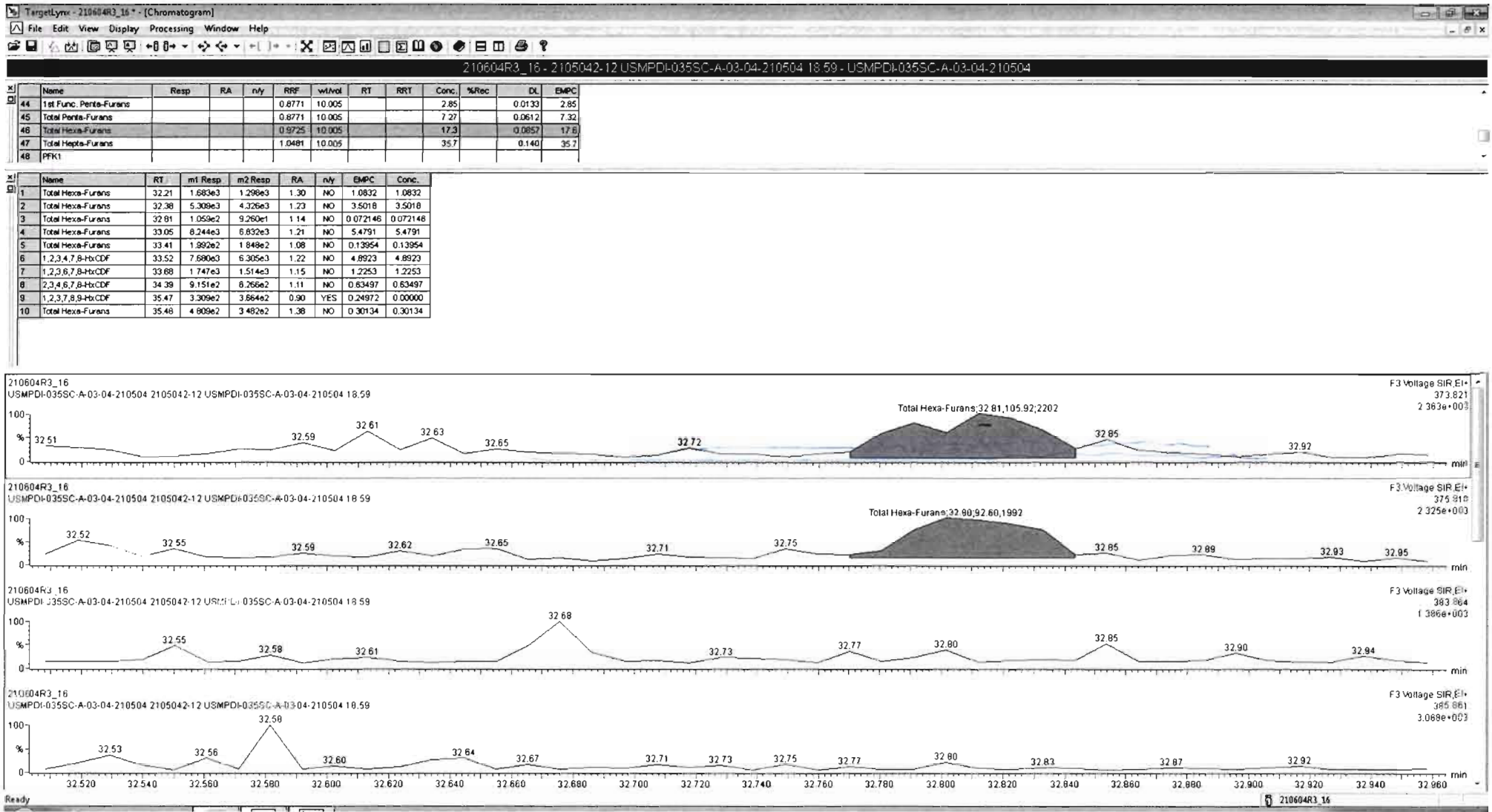
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DPE3

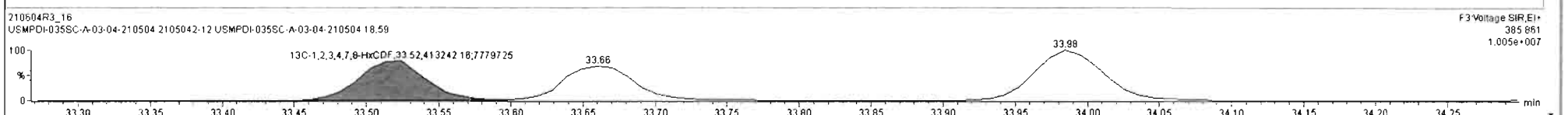
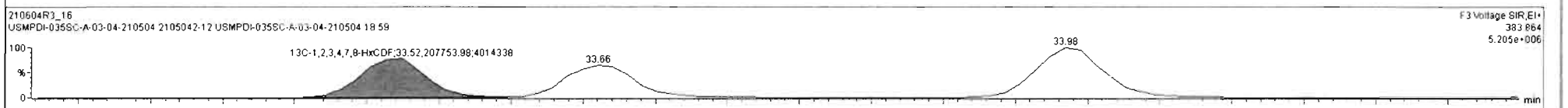
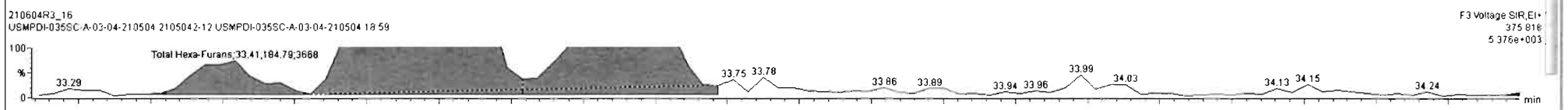
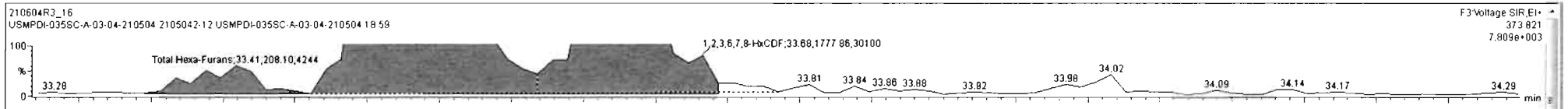
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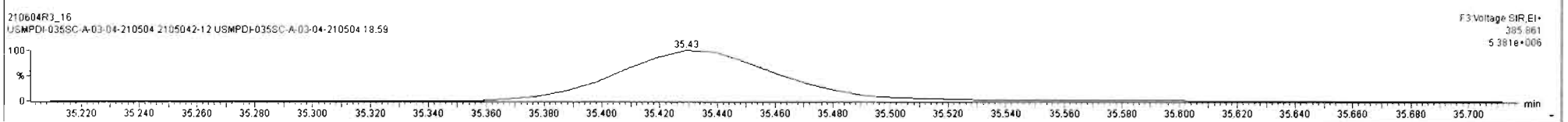
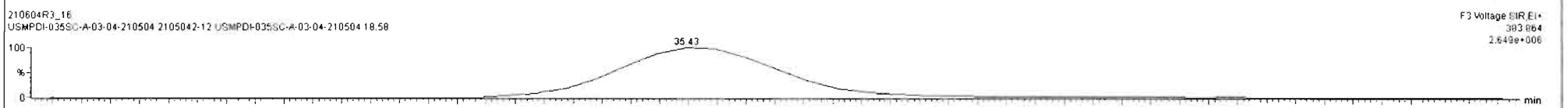
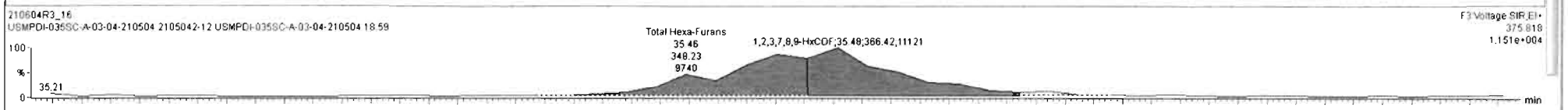
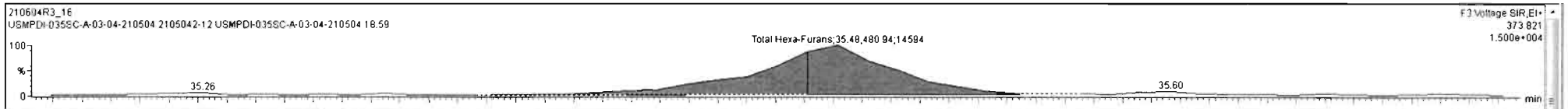
Sl	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.8771	10.005			2.85		0.0133	2.85
45	Total Penta-Furans				0.8771	10.005			7.27		0.0612	7.32
46	Total Hexa-Furans				0.9725	10.005			17.3		0.0857	17.8
47	Total Hepta-Furans				1.0481	10.005			35.7		0.140	35.7
48	PFK1											

Sl	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.21	1.883e3	1.298e3	1.30	NO	1.0832	1.0832
2	Total Hexa-Furans	32.38	5.309e3	4.326e3	1.23	NO	3.5018	3.5018
3	Total Hexa-Furans	32.81	1.059e2	9.260e1	1.14	NO	0.072148	0.072148
4	Total Hexa-Furans	33.05	6.244e3	6.832e3	1.21	NO	5.4791	5.4791
5	Total Hexa-Furans	33.41	2.081e2	1.848e2	1.13	NO	0.14278	0.14278
6	1,2,3,4,7,8-HxCDF	33.52	7.690e3	6.305e3	1.22	NO	4.8957	4.8957
7	1,2,3,6,7,8-HxCDF	33.68	1.778e3	1.514e3	1.17	NO	1.2368	1.2368
8	2,3,4,6,7,8-HxCDF	34.39	9.151e2	8.266e2	1.11	NO	0.63497	0.63497
9	1,2,3,7,8,9-HxCDF	35.47	3.309e2	3.664e2	0.90	YES	0.24972	0.00000
10	Total Hexa-Furans	35.48	4.809e2	3.482e2	1.38	NO	0.30134	0.30134



#	Name	Resp	RA	n/y	RRF	wt/rel	RT	RRT	Conc.	%Rec	DL	EMPC
44	1st Func. Penta-Furans				0.8771	10.005		2.85	0.0133	2.85		
45	Total Penta-Furans				0.8771	10.005			7.27	0.0612	7.32	
46	Total Hexa-Furans				0.9725	10.005			17.3	0.0857	17.6	
47	Total Hepta-Furans				1.0481	10.005			35.7	0.140	35.7	
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.21	1.683e3	1.298e3	1.30	NO	1.0832	1.0832
2	Total Hexa-Furans	32.38	5.309e3	4.326e3	1.23	NO	3.5018	3.5018
3	Total Hexa-Furans	32.81	1.059e2	9.260e1	1.14	NO	0.072148	0.072148
4	Total Hexa-Furans	33.05	8.244e3	6.832e3	1.21	NO	5.4791	5.4791
5	Total Hexa-Furans	33.41	2.081e2	1.848e2	1.13	NO	0.14278	0.14278
6	1,2,3,4,7,8-HxCDF	33.52	7.690e3	6.305e3	1.22	NO	4.8957	4.8957
7	1,2,3,6,7,8-HxCDF	33.68	1.778e3	1.514e3	1.17	NO	1.2368	1.2368
8	2,3,4,6,7,8-HxCDF	34.39	9.151e2	8.266e2	1.11	NO	0.63497	0.63497
9	1,2,3,7,8,9-HxCDF	35.47	3.309e2	3.664e2	0.90	YES	0.24972	0.00000
10	Total Hexa-Furans	35.48	4.809e2	3.482e2	1.38	NO	0.30134	0.30134

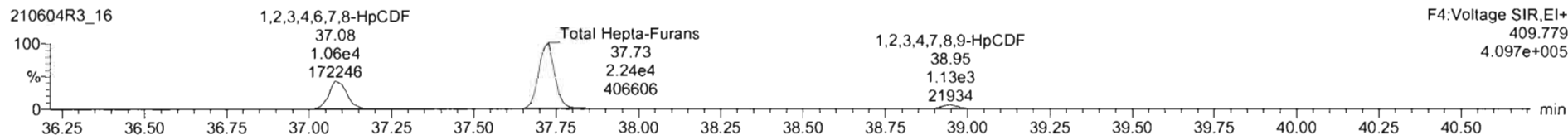
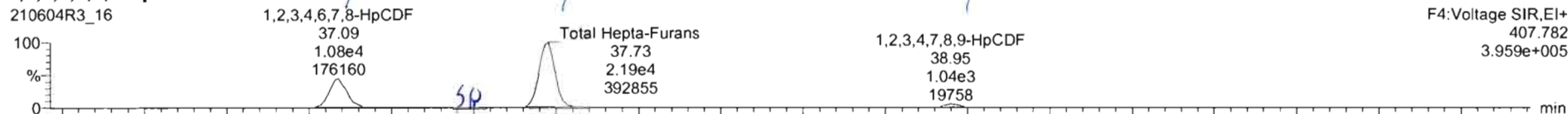


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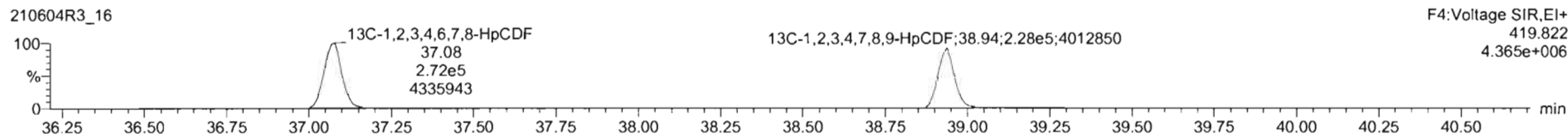
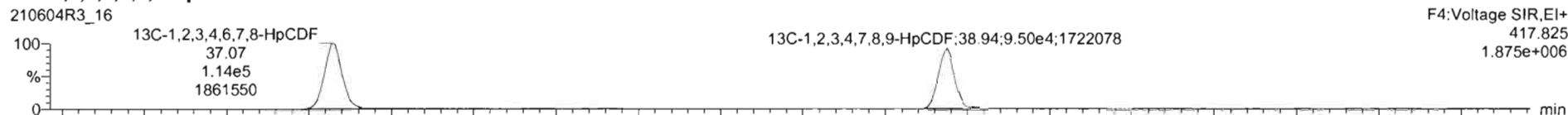
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Name: 210604R3_16, Date: 05-Jun-2021, Time: 09:00:53, ID: 2105042-12 USMPDI-035SC-A-03-04-210504 18.59, Description: USMPDI-035SC-A-03-04-210504

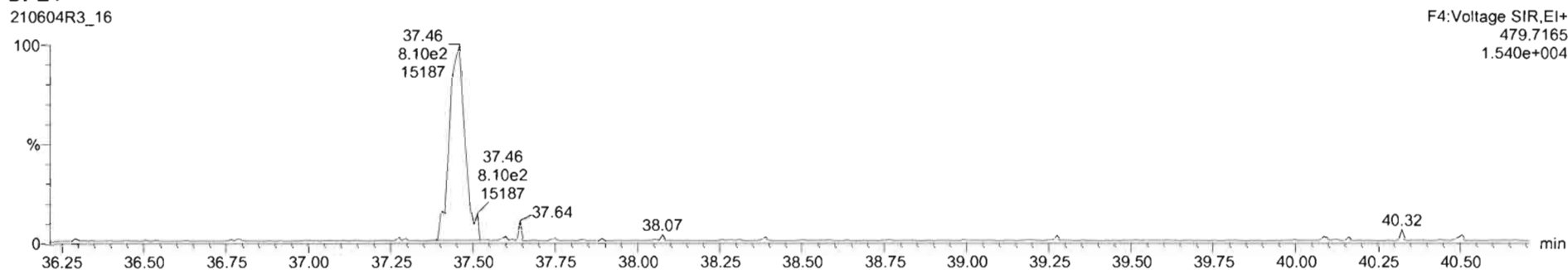
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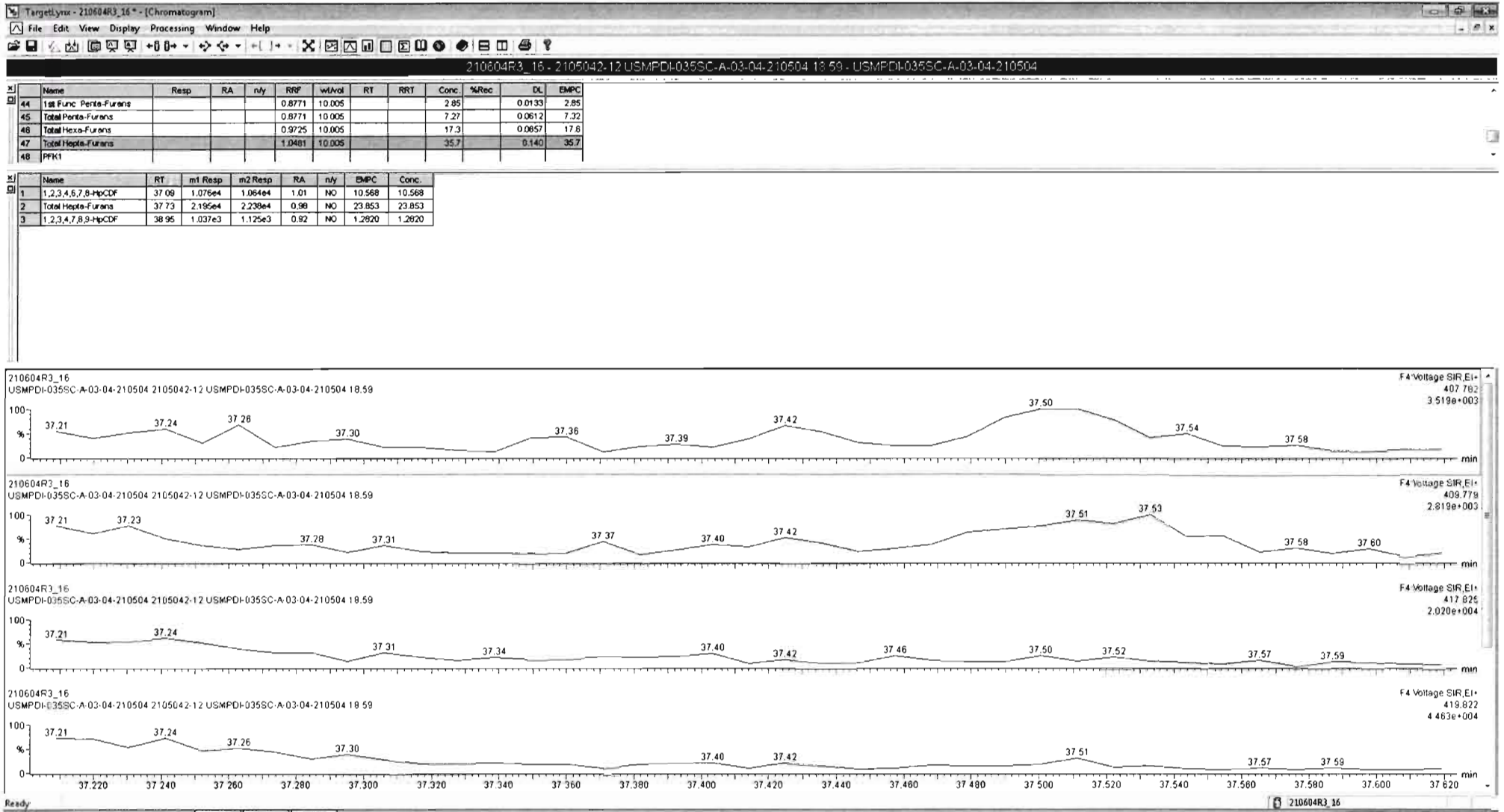


13C-1,2,3,4,6,7,8-HpCDF



DPE4



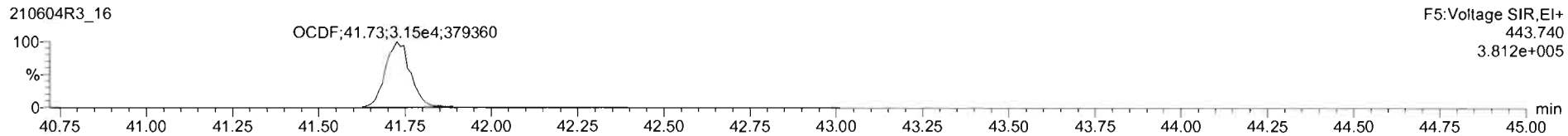
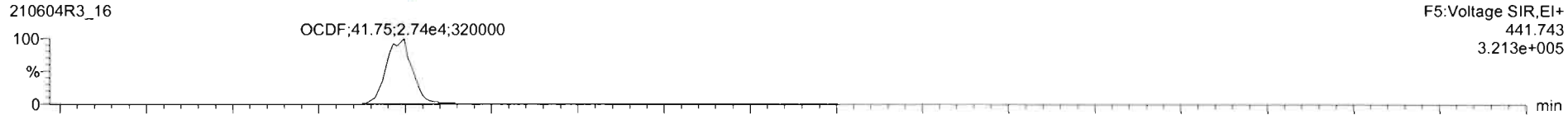


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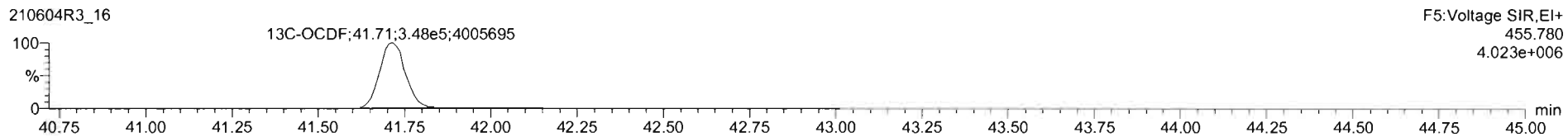
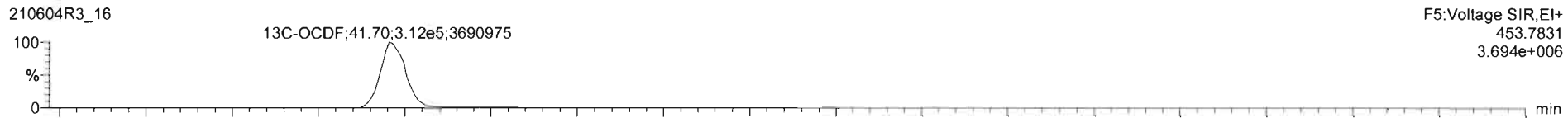
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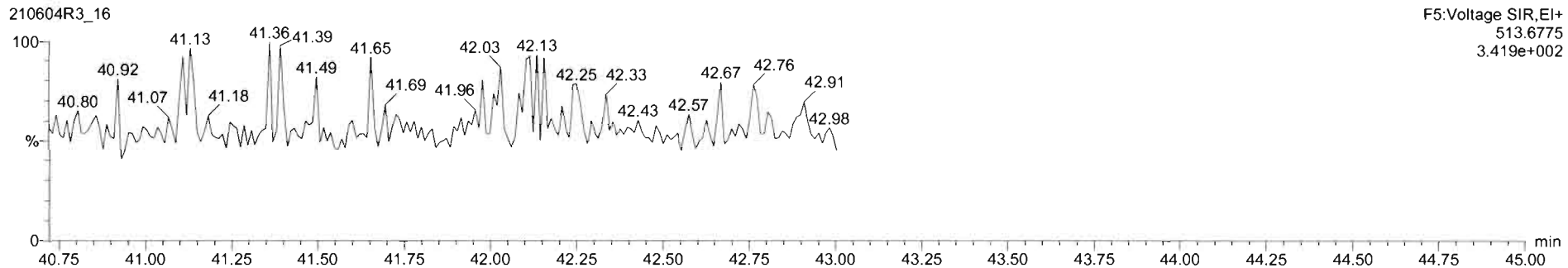
OCDF



13C-OCDF



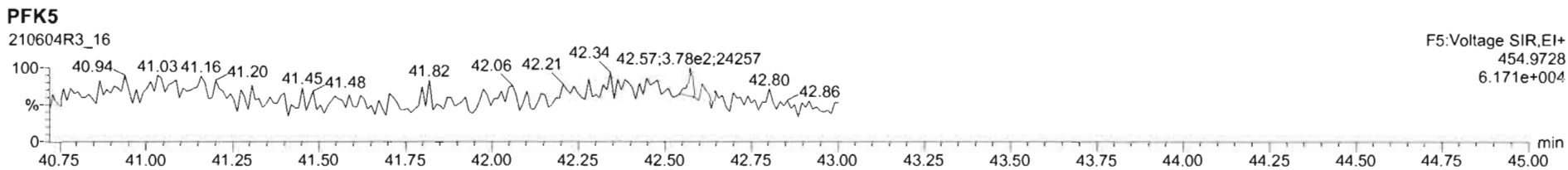
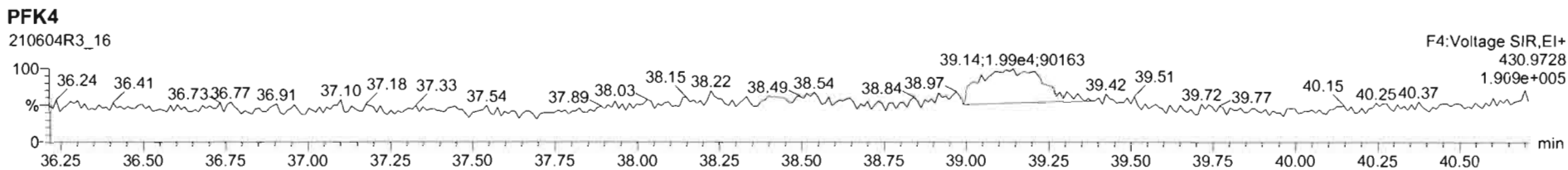
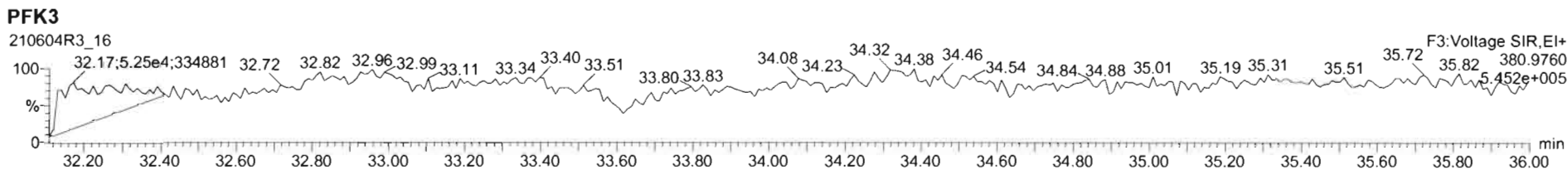
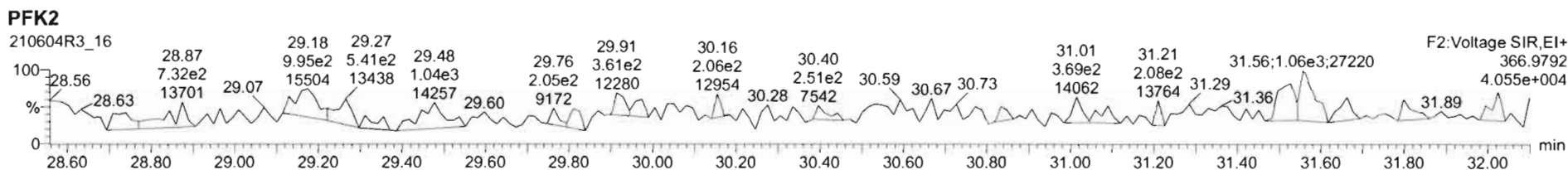
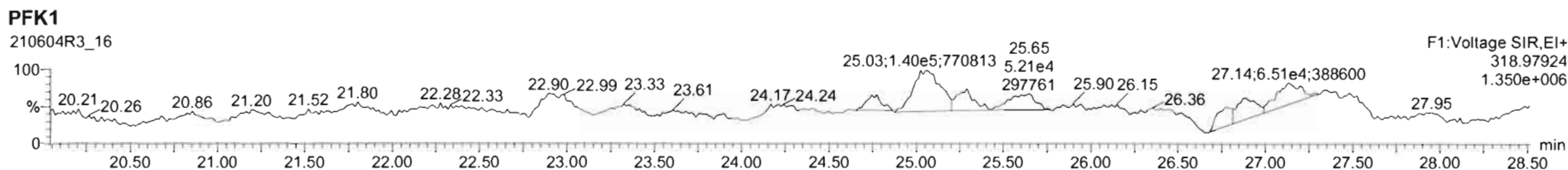
DPE5



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07 06/23/2021

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.63e3	0.55	YES	0.929	10.001	26.684	26.67	1.001	1.000	0.88786		0.0765	0.722
2	2 1,2,3,7,8-PeCDD	1.69e3	0.80	YES	0.826	10.001	31.136	31.14	1.001	1.001	2.0939		1.24	1.90
3	3 1,2,3,4,7,8-HxCDD	1.84e3	1.23	NO	0.972	10.001	34.477	34.47	1.001	1.000	3.2272		0.472	3.23
4	4 1,2,3,6,7,8-HxCDD	1.12e4	1.30	NO	0.877	10.001	34.602	34.60	1.001	1.001	19.393		0.481	19.4
5	5 1,2,3,7,8,9-HxCDD	5.03e3	1.29	NO	0.874	10.001	34.884	34.88	1.000	1.000	8.4511		0.477	8.45
6	6 1,2,3,4,6,7,8-HpCDD	1.58e5	1.01	NO	0.899	10.001	38.268	38.27	1.000	1.000	351.64		1.67	352
7	7 OCDD	1.23e6	0.88	NO	0.852	10.001	41.367	41.37	1.000	1.000	3807.9		2.68	3810
8	8 2,3,7,8-TCDF	2.21e4	0.75	NO	0.747	10.001	26.034	26.06	1.000	1.001	13.988		0.210	14.0
9	9 1,2,3,7,8-PeCDF	4.46e4	1.57	NO	0.877	10.001	29.917	29.93	1.000	1.000	36.494		0.418	36.5
10	10 2,3,4,7,8-PeCDF	1.81e4	1.59	NO	0.962	10.001	30.946	30.95	1.001	1.001	13.809		0.378	13.8
11	11 1,2,3,4,7,8-HxCDF	5.45e4	1.24	NO	0.920	10.001	33.523	33.53	1.000	1.001	66.989		0.422	67.0
12	12 1,2,3,6,7,8-HxCDF	1.39e4	1.25	NO	0.936	10.001	33.680	33.67	1.001	1.000	15.766		0.388	15.8
13	13 2,3,4,6,7,8-HxCDF	4.31e3	1.24	NO	0.973	10.001	34.372	34.39	1.001	1.001	5.4025		0.445	5.40
14	14 1,2,3,7,8,9-HxCDF	1.68e3	1.30	NO	0.940	10.001	35.440	35.46	1.000	1.001	2.4989		0.568	2.50
15	15 1,2,3,4,6,7,8-HpCDF	3.05e4	0.97	NO	1.05	10.001	37.077	37.07	1.000	1.000	55.625		0.473	55.6
16	16 1,2,3,4,7,8,9-HpCDF	4.94e3	0.99	NO	1.05	10.001	38.939	38.94	1.000	1.000	10.471		0.535	10.5
17	17 OCDF	4.96e4	0.87	NO	0.771	10.001	41.681	41.69	1.000	1.000	135.74		0.728	136
18	18 13C-2,3,7,8-TCDD	3.96e5	0.76	NO	1.10	10.001	26.640	26.65	1.027	1.027	254.02	127	0.266	
19	19 13C-1,2,3,7,8-PeCDD	1.96e5	0.61	NO	0.864	10.001	31.016	31.10	1.196	1.199	160.65	80.3	0.552	
20	20 13C-1,2,3,4,7,8-HxCDD	1.17e5	1.34	NO	0.746	10.001	34.454	34.46	1.014	1.014	152.30	76.2	0.800	
21	21 13C-1,2,3,6,7,8-HxCDD	1.32e5	1.29	NO	0.847	10.001	34.573	34.58	1.017	1.018	150.57	75.3	0.705	
22	22 13C-1,2,3,7,8,9-HxCDD	1.36e5	1.27	NO	0.868	10.001	34.872	34.87	1.026	1.026	151.56	75.8	0.688	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.97e4	1.08	NO	0.664	10.001	38.220	38.26	1.125	1.126	145.23	72.6	0.703	
24	24 13C-OCDD	1.51e5	0.87	NO	0.561	10.001	41.166	41.36	1.211	1.217	261.29	65.3	0.964	
25	25 13C-2,3,7,8-TCDF	4.24e5	0.77	NO	1.09	10.001	26.030	26.03	1.003	1.003	176.33	88.2	0.267	
26	26 13C-1,2,3,7,8-PeCDF	2.78e5	1.67	NO	0.809	10.001	29.748	29.91	1.147	1.153	156.48	78.2	0.844	
27	27 13C-2,3,4,7,8-PeCDF	2.73e5	1.64	NO	0.803	10.001	30.708	30.92	1.184	1.192	154.66	77.3	0.851	
28	28 13C-1,2,3,4,7,8-HxCDF	1.77e5	0.49	NO	1.01	10.001	33.526	33.51	0.987	0.986	168.95	84.5	0.644	
29	29 13C-1,2,3,6,7,8-HxCDF	1.88e5	0.49	NO	1.07	10.001	33.655	33.66	0.990	0.990	169.77	84.9	0.607	
30	30 13C-2,3,4,6,7,8-HxCDF	1.64e5	0.49	NO	0.910	10.001	34.345	34.35	1.011	1.011	174.37	87.2	0.716	
31	31 13C-1,2,3,7,8,9-HxCDF	1.43e5	0.48	NO	0.828	10.001	35.423	35.43	1.042	1.043	167.27	83.6	0.786	

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_6.qld

Last Altered: Monday, June 21, 2021 2:54:33 PM Pacific Daylight Time

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Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.05e5	0.41	NO	0.661	10.001	37.030	37.06	1.090	1.090	153.33	76.7	0.716	
33	33 13C-1,2,3,4,7,8,9-HpCDF	9.02e4	0.38	NO	0.566	10.001	38.790	38.93	1.141	1.145	154.21	77.1	0.837	
34	34 13C-OCDF	1.90e5	0.90	NO	0.663	10.001	41.553	41.67	1.223	1.226	276.75	69.2	0.887	
35	35 37Cl-2,3,7,8-TCDD	3.45e5			2.07	10.001	26.840	26.68	1.035	1.028	118.32	148	0.0728	
36	36 13C-1,2,3,4-TCDD	2.82e5	0.77	NO	1.00	10.001	26.070	25.94	1.000	1.000	199.98	100	0.294	
37	37 13C-1,2,3,4-TCDF	4.40e5	0.78	NO	1.00	10.001	24.760	24.60	1.000	1.000	199.98	100	0.292	
38	38 13C-1,2,3,4,6,9-HxCDF	2.07e5	0.51	NO	1.00	10.001	34.040	33.99	1.000	1.000	199.98	100	0.651	
39	39 Total Tetra-Dioxins				0.929	10.001	24.620		0.000		5.4616		0.0765	7.30
40	40 Total Penta-Dioxins				0.826	10.001	29.960		0.000		17.466		1.24	20.3
41	41 Total Hexa-Dioxins				0.877	10.001	33.635		0.000		153.78		0.492	154
42	42 Total Hepta-Dioxins				0.899	10.001	37.640		0.000		784.08		1.67	784
43	43 Total Tetra-Furans				0.747	10.001	23.610		0.000		51.856		0.210	56.9
44	44 1st Func. Penta-Furans				0.877	10.001	27.620		0.000		29.170		0.0713	29.2
45	45 Total Penta-Furans				0.877	10.001	29.275		0.000		84.560		0.416	85.7
46	46 Total Hexa-Furans				0.973	10.001	33.555		0.000		172.01		0.435	175
47	47 Total Hepta-Furans				1.05	10.001	37.835		0.000		164.35		0.501	164

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Dataset: U:\VG12.PRO\Results\210609R1\210609R1_6.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.22	1.584e4	2.300e4	1.358e3	1.681e3	0.81	NO	3.038e3	1.6525	1.6530	0.0765
2	Total Tetra-Dioxins	23.52	8.979e3	1.285e4	7.477e2	9.263e2	0.81	NO	1.674e3	0.91055	0.91100	0.0765
3	Total Tetra-Dioxins	23.98	7.567e3	1.154e4	5.770e2	7.202e2	0.80	NO	1.297e3	0.70559	0.70600	0.0765
4	Total Tetra-Dioxins	24.73	5.000e3	4.554e3	3.336e2	3.291e2	1.01	YES	0.000e0	0.00000	0.31700	0.0765
5	Total Tetra-Dioxins	24.95	4.501e3	4.753e3	2.911e2	3.360e2	0.87	NO	6.270e2	0.34105	0.34100	0.0765
6	Total Tetra-Dioxins	25.14	6.521e3	9.344e3	4.372e2	5.844e2	0.75	NO	1.022e3	0.55567	0.55600	0.0765
7	Total Tetra-Dioxins	25.34	2.126e3	2.304e3	1.239e2	1.681e2	0.74	NO	2.920e2	0.15884	0.15900	0.0765
8	Total Tetra-Dioxins	25.63	3.157e3	6.025e3	2.189e2	3.313e2	0.66	NO	0.000e0	0.00000	0.29900	0.0765
9	Total Tetra-Dioxins	25.69	4.178e3	4.851e3	2.186e2	1.925e2	1.13	YES	0.000e0	0.00000	0.18500	0.0765
10	Total Tetra-Dioxins	25.97	1.330e3	1.697e3	5.719e1	7.061e1	0.81	NO	1.278e2	0.069513	0.070000	0.0765
11	Total Tetra-Dioxins	26.42	1.163e4	1.600e4	8.061e2	1.157e3	0.70	NO	1.963e3	1.0679	1.0680	0.0765
12	2,3,7,8-TCDD	26.67	7.882e3	1.627e4	5.775e2	1.055e3	0.55	YES	1.632e3	0.00000	0.72200	0.0765
13	Total Tetra-Dioxins	26.99	3.558e3	3.719e3	2.070e2	2.020e2	1.02	YES	0.000e0	0.00000	0.19400	0.0765
14	Total Tetra-Dioxins	27.52	2.421e3	1.846e3	1.093e2	1.230e2	0.89	YES	0.000e0	0.00000	0.11800	0.0765

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.92	2.991e4	5.733e4	2.225e3	3.813e3	0.58	NO	6.038e3	7.4694	7.4690	1.24
2	Total Penta-Dioxins	29.42	1.033e4	1.726e4	5.222e2	8.445e2	0.62	NO	1.367e3	1.6907	1.6910	1.24
3	Total Penta-Dioxins	29.91	1.672e4	2.970e4	8.111e2	1.264e3	0.64	NO	2.075e3	2.5671	2.5670	1.24
4	Total Penta-Dioxins	30.08	1.308e4	2.082e4	9.357e2	1.678e3	0.56	NO	2.614e3	3.2331	3.2330	1.24
5	Total Penta-Dioxins	30.35	1.311e4	2.395e4	8.150e2	1.210e3	0.67	NO	2.025e3	2.5052	2.5050	1.24
6	1,2,3,7,8-PeCDD	31.14	1.442e4	1.810e4	7.513e2	9.413e2	0.80	YES	1.693e3	0.00000	1.8980	1.24
7	Total Penta-Dioxins	31.20	3.876e3	5.757e3	1.824e2	2.449e2	0.75	YES	0.000e0	0.00000	0.49400	1.24
8	Total Penta-Dioxins	31.47	3.381e3	8.370e3	1.417e2	3.384e2	0.42	YES	0.000e0	0.00000	0.45400	1.24

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Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.75	3.059e5	2.624e5	1.451e4	1.165e4	1.25	NO	2.616e4	46.421	46.421	0.492
2	Total Hexa-Dioxins	33.38	2.851e4	2.751e4	1.527e3	1.278e3	1.20	NO	2.804e3	4.9769	4.9770	0.492
3	Total Hexa-Dioxins	33.69	3.367e5	2.499e5	2.092e4	1.673e4	1.25	NO	3.765e4	66.826	66.826	0.492
4	Total Hexa-Dioxins	33.75	1.426e4	1.298e4	8.172e2	7.055e2	1.16	NO	1.523e3	2.7023	2.7020	0.492
5	1,2,3,4,7,8-HxCDD	34.47	1.957e4	1.639e4	1.018e3	8.256e2	1.23	NO	1.844e3	3.2272	3.2270	0.472
6	1,2,3,6,7,8-HxCDD	34.60	1.178e5	8.583e4	6.336e3	4.879e3	1.30	NO	1.121e4	19.393	19.393	0.481
7	Total Hexa-Dioxins	34.77	1.126e4	1.121e4	5.800e2	4.236e2	1.37	NO	1.004e3	1.7811	1.7810	0.492
8	1,2,3,7,8,9-HxCDD	34.88	4.537e4	3.808e4	2.833e3	2.193e3	1.29	NO	5.026e3	8.4511	8.4510	0.477

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.39	1.815e6	1.798e6	9.673e4	9.711e4	1.00	NO	1.938e5	432.45	432.44	1.67
2	1,2,3,4,6,7,8-HpCDD	38.27	1.554e6	1.496e6	7.909e4	7.853e4	1.01	NO	1.576e5	351.64	351.64	1.67

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_6.qld

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Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.06	5.022e3	5.526e3	3.771e2	5.504e2	0.69	NO	9.275e2	0.58622	0.58600	0.210
2	Total Tetra-Furans	21.65	1.173e4	1.099e4	7.780e2	1.091e3	0.71	NO	1.869e3	1.1813	1.1810	0.210
3	Total Tetra-Furans	22.42	3.595e4	4.900e4	3.210e3	4.306e3	0.75	NO	7.517e3	4.7511	4.7510	0.210
4	Total Tetra-Furans	22.76	5.756e3	9.082e3	4.083e2	6.445e2	0.63	YES	0.000e0	0.00000	0.59300	0.210
5	Total Tetra-Furans	22.88	1.294e4	2.115e4	1.419e3	1.977e3	0.72	NO	3.396e3	2.1465	2.1470	0.210
6	Total Tetra-Furans	23.27	3.604e4	4.508e4	3.202e3	4.461e3	0.72	NO	7.663e3	4.8438	4.8440	0.210
7	Total Tetra-Furans	23.68	2.581e4	3.388e4	2.019e3	2.520e3	0.80	NO	4.539e3	2.8691	2.8690	0.210
8	Total Tetra-Furans	23.81	9.910e3	1.200e4	7.190e2	8.815e2	0.82	NO	1.600e3	1.0116	1.0120	0.210
9	Total Tetra-Furans	23.99	1.335e4	1.738e4	9.973e2	1.361e3	0.73	NO	2.358e3	1.4903	1.4900	0.210
10	Total Tetra-Furans	24.38	3.046e3	3.742e3	1.868e2	2.675e2	0.70	NO	4.543e2	0.28715	0.28700	0.210
11	Total Tetra-Furans	24.45	7.964e3	9.313e3	5.117e2	6.552e2	0.78	NO	1.167e3	0.73759	0.73800	0.210
12	Total Tetra-Furans	24.66	1.432e4	1.527e4	4.728e2	6.674e2	0.71	NO	0.000e0	0.00000	0.72100	0.210
13	Total Tetra-Furans	24.70	2.266e4	2.565e4	2.117e3	2.748e3	0.77	NO	0.000e0	0.00000	3.0750	0.210
14	Total Tetra-Furans	25.13	1.087e5	1.356e5	7.291e3	9.726e3	0.75	NO	1.702e4	10.756	10.756	0.210
15	Total Tetra-Furans	25.42	1.149e4	1.264e4	8.135e2	1.020e3	0.80	NO	1.834e3	1.1590	1.1590	0.210
16	Total Tetra-Furans	25.78	5.664e3	4.604e3	3.363e2	3.261e2	1.03	YES	0.000e0	0.00000	0.36500	0.210
17	Total Tetra-Furans	25.93	2.351e4	2.824e4	1.246e3	1.604e3	0.78	NO	2.850e3	1.8016	1.8020	0.210
18	2,3,7,8-TCDF	26.06	1.604e5	2.011e5	9.472e3	1.266e4	0.75	NO	2.213e4	13.988	13.988	0.210
19	Total Tetra-Furans	26.33	1.696e4	1.675e4	1.193e3	1.476e3	0.81	NO	2.669e3	1.6871	1.6870	0.210
20	Total Tetra-Furans	26.59	5.684e3	7.531e3	3.526e2	4.435e2	0.80	NO	7.961e2	0.50321	0.50300	0.210
21	Total Tetra-Furans	27.42	1.406e4	1.894e4	8.048e2	1.126e3	0.71	NO	1.931e3	1.2206	1.2210	0.210
22	Total Tetra-Furans	27.64	6.328e3	3.706e3	2.716e2	2.191e2	1.24	YES	0.000e0	0.00000	0.24500	0.210
23	Total Tetra-Furans	27.85	1.081e4	1.153e4	5.950e2	7.288e2	0.82	NO	1.324e3	0.83678	0.83700	0.210

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.42	3.794e5	2.326e5	2.180e4	1.348e4	1.62	NO	3.529e4	29.170	29.170	0.0713

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Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.81	2.293e4	1.730e4	1.301e3	9.770e2	1.33	NO	2.278e3	1.8835	1.8840	0.416
2	Total Penta-Furans	28.98	2.105e5	1.434e5	1.430e4	9.290e3	1.54	NO	2.359e4	19.506	19.506	0.416
3	Total Penta-Furans	29.57	4.619e4	2.664e4	2.803e3	1.735e3	1.62	NO	4.538e3	3.7511	3.7510	0.416
4	Total Penta-Furans	29.73	2.831e4	1.619e4	1.341e3	8.190e2	1.64	NO	2.160e3	1.7858	1.7860	0.416
5	1,2,3,7,8-PeCDF	29.93	5.481e5	3.574e5	2.723e4	1.735e4	1.57	NO	4.458e4	36.494	36.494	0.418
6	Total Penta-Furans	30.17	1.147e5	7.506e4	5.094e3	3.274e3	1.56	NO	8.368e3	6.9176	6.9180	0.416
7	Total Penta-Furans	30.76	1.398e4	5.079e3	6.366e2	2.615e2	2.43	YES	0.000e0	0.00000	0.55100	0.416
8	2,3,4,7,8-PeCDF	30.95	2.069e5	1.296e5	1.114e4	7.005e3	1.59	NO	1.814e4	13.809	13.809	0.378
9	Total Penta-Furans	31.75	8.063e3	3.548e3	3.080e2	1.912e2	1.61	NO	4.992e2	0.41266	0.41300	0.416
10	Total Penta-Furans	31.84	9.159e3	5.017e3	4.679e2	2.562e2	1.83	YES	0.000e0	0.00000	0.54000	0.416

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.22	9.236e4	7.393e4	4.206e3	3.349e3	1.26	NO	7.555e3	9.2418	9.2420	0.435
2	Total Hexa-Furans	32.39	3.052e5	2.302e5	1.374e4	1.078e4	1.27	NO	2.453e4	30.005	30.005	0.435
3	Total Hexa-Furans	32.82	7.381e3	4.742e3	3.180e2	2.693e2	1.18	NO	5.873e2	0.71848	0.71800	0.435
4	Total Hexa-Furans	33.04	3.842e5	3.195e5	1.828e4	1.489e4	1.23	NO	3.317e4	40.580	40.580	0.435
5	Total Hexa-Furans	33.41	8.802e3	5.756e3	3.731e2	2.853e2	1.31	NO	6.584e2	0.80543	0.80500	0.435
6	1,2,3,4,7,8-HxCDF	33.53	6.283e5	4.938e5	3.010e4	2.435e4	1.24	NO	5.445e4	66.989	66.989	0.422
7	1,2,3,6,7,8-HxCDF	33.67	1.405e5	1.192e5	7.714e3	6.196e3	1.25	NO	1.391e4	15.766	15.766	0.388
8	2,3,4,6,7,8-HxCDF	34.39	3.289e4	2.839e4	2.381e3	1.928e3	1.24	NO	4.308e3	5.4025	5.4030	0.445
9	1,2,3,7,8,9-HxCDF	35.46	4.031e4	2.856e4	9.516e2	7.308e2	1.30	NO	1.682e3	2.4989	2.4990	0.568
10	Total Hexa-Furans	35.47	4.155e4	2.931e4	1.776e3	1.197e3	1.48	YES	0.000e0	0.00000	3.2810	0.435

Hepta-Furans

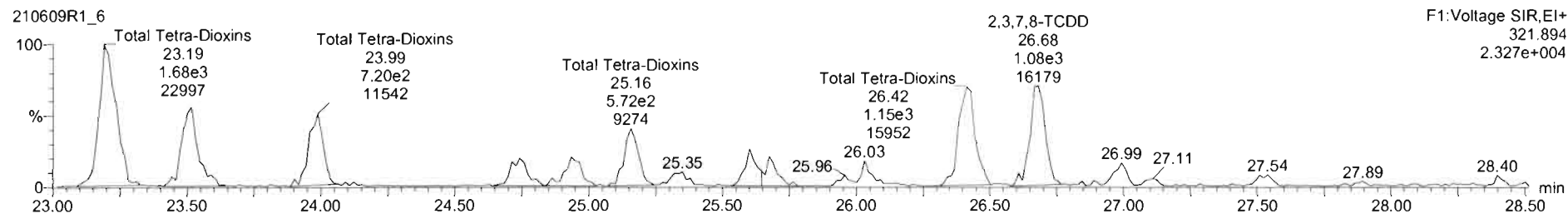
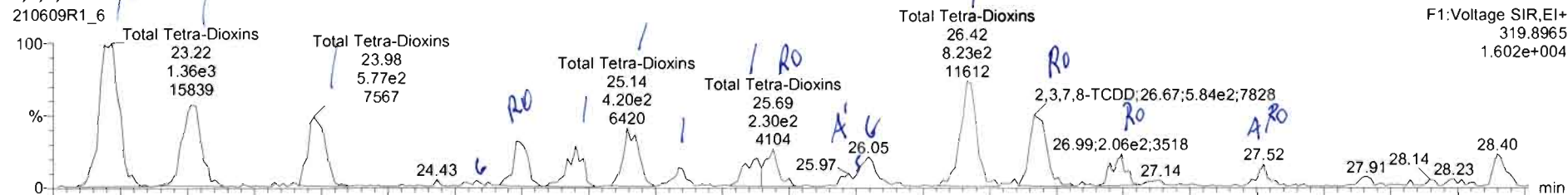
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.07	2.746e5	2.677e5	1.501e4	1.554e4	0.97	NO	3.055e4	55.625	55.625	0.473
2	Total Hepta-Furans	37.68	5.091e5	4.891e5	2.562e4	2.459e4	1.04	NO	5.021e4	98.254	98.254	0.501
3	1,2,3,4,7,8,9-HpCDF	38.94	4.411e4	4.777e4	2.462e3	2.477e3	0.99	NO	4.938e3	10.471	10.471	0.535

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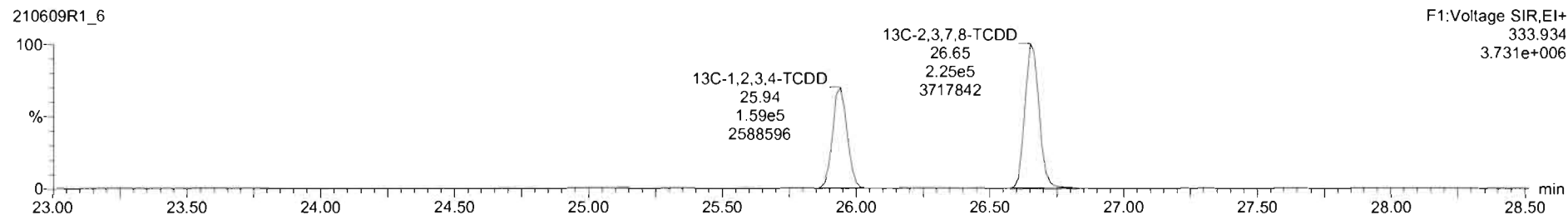
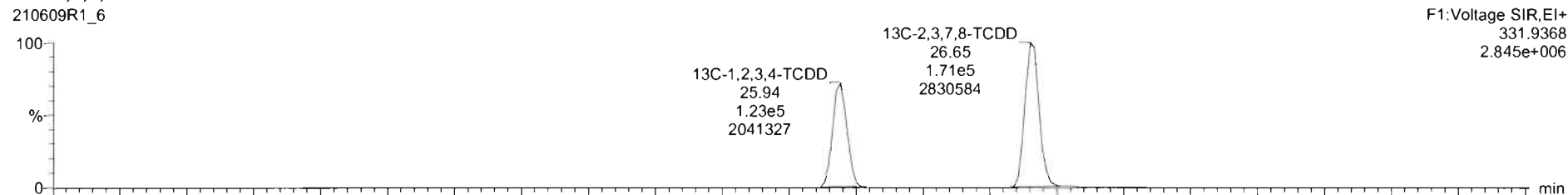
Last Altered: Tuesday, June 15, 2021 13:41:45 Pacific Daylight Time
Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

2,3,7,8-TCDD

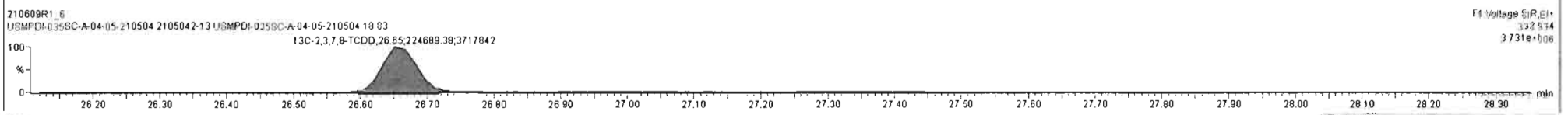
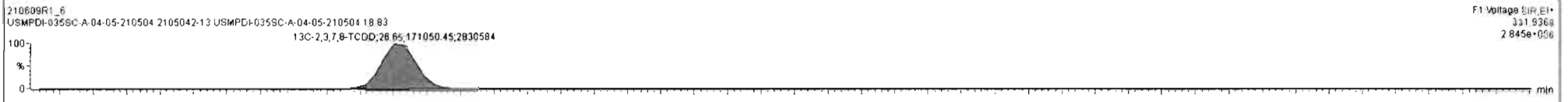
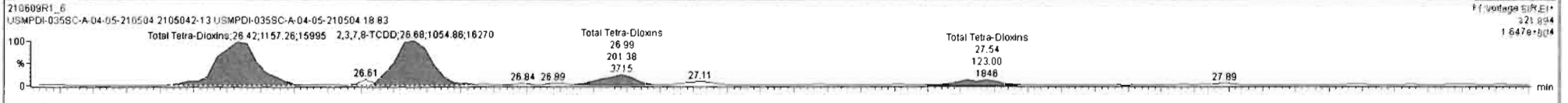
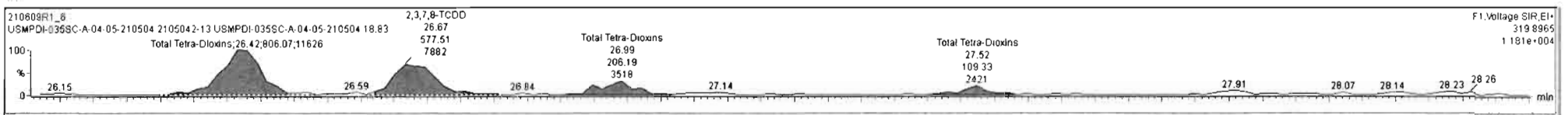


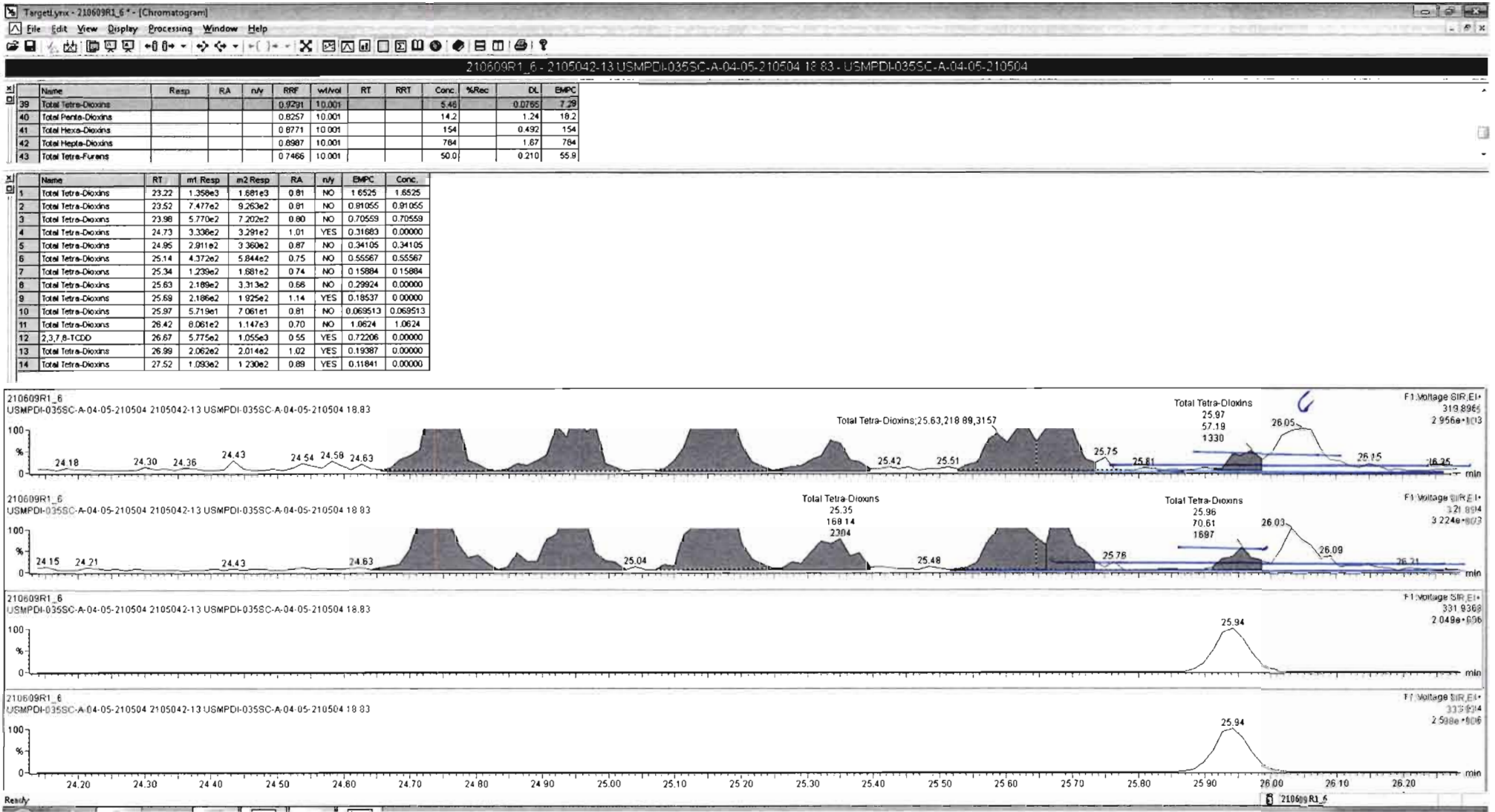
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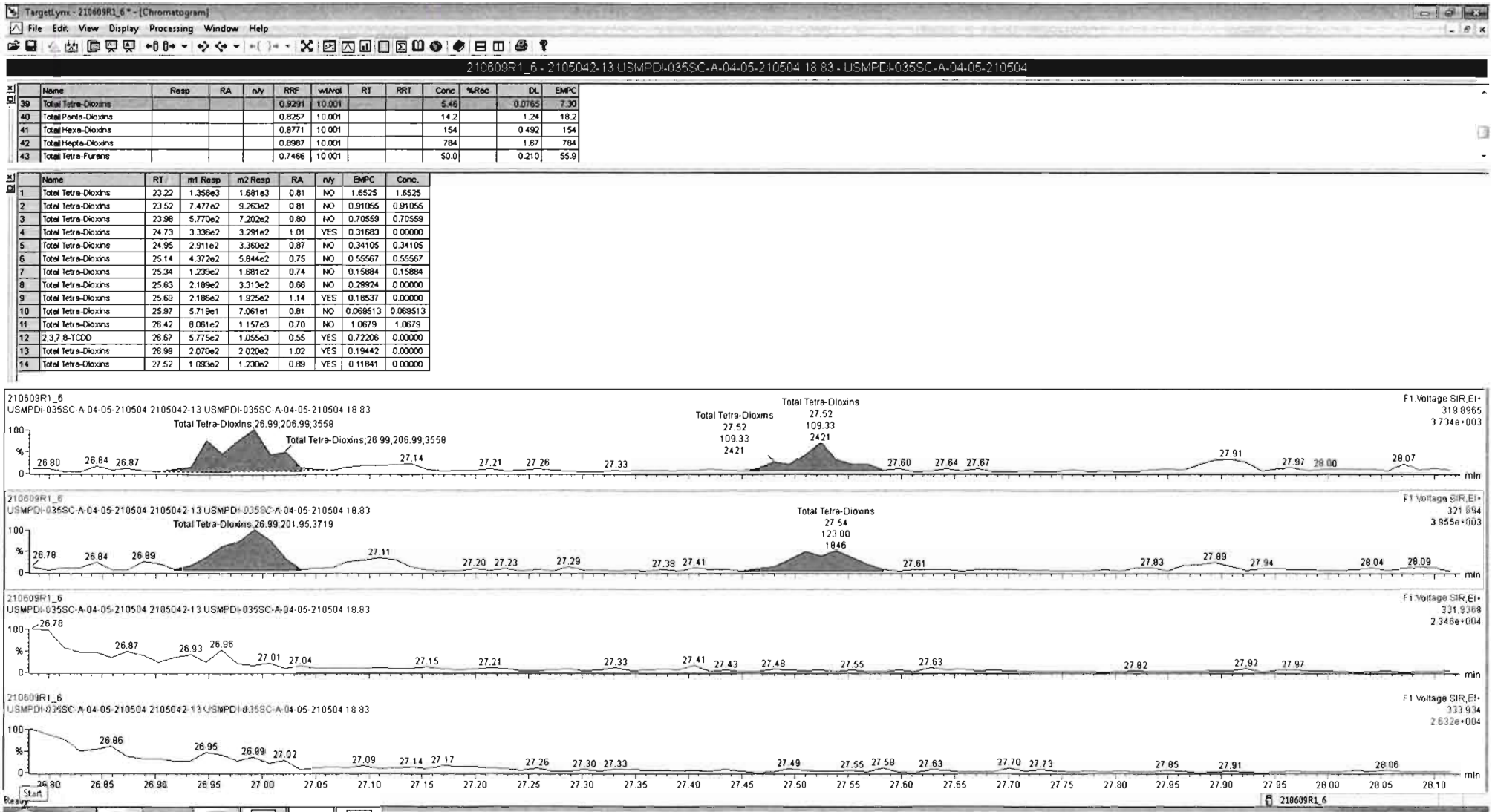


Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9291	10.001			5.46		0.0765	7.30
40 Total Penta-Dioxins				0.8257	10.001			14.2		1.24	18.2
41 Total Hexa-Dioxins				0.8771	10.001			154		0.492	154
42 Total Hepta-Dioxins				0.8987	10.001			784		1.67	784
43 Total Tetra-Furans				0.7466	10.001			50.0		0.210	55.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.22	1.358e3	1.681e3	0.81	NO	1.6525	1.6525
2 Total Tetra-Dioxins	23.52	7.477e2	9.263e2	0.81	NO	0.91055	0.91055
3 Total Tetra-Dioxins	23.98	5.770e2	7.202e2	0.80	NO	0.70559	0.70559
4 Total Tetra-Dioxins	24.73	3.336e2	3.291e2	1.01	YES	0.31683	0.00000
5 Total Tetra-Dioxins	24.95	2.911e2	3.360e2	0.87	NO	0.34105	0.34105
6 Total Tetra-Dioxins	25.14	4.372e2	5.844e2	0.75	NO	0.55567	0.55567
7 Total Tetra-Dioxins	25.34	1.239e2	1.881e2	0.74	NO	0.15884	0.15884
8 Total Tetra-Dioxins	25.63	2.189e2	3.313e2	0.66	NO	0.29924	0.00000
9 Total Tetra-Dioxins	25.69	2.186e2	1.925e2	1.14	YES	0.18537	0.00000
10 Total Tetra-Dioxins	25.97	5.719e1	7.061e1	0.81	NO	0.069513	0.069513
11 Total Tetra-Dioxins	26.42	8.061e2	1.157e3	0.70	NO	1.0679	1.0679
12 2,3,7,8-TCDD	26.67	5.775e2	1.055e3	0.55	YES	0.72206	0.00000
13 Total Tetra-Dioxins	26.99	2.062e2	2.014e2	1.02	YES	0.19387	0.00000
14 Total Tetra-Dioxins	27.52	1.093e2	1.230e2	0.89	YES	0.11841	0.00000







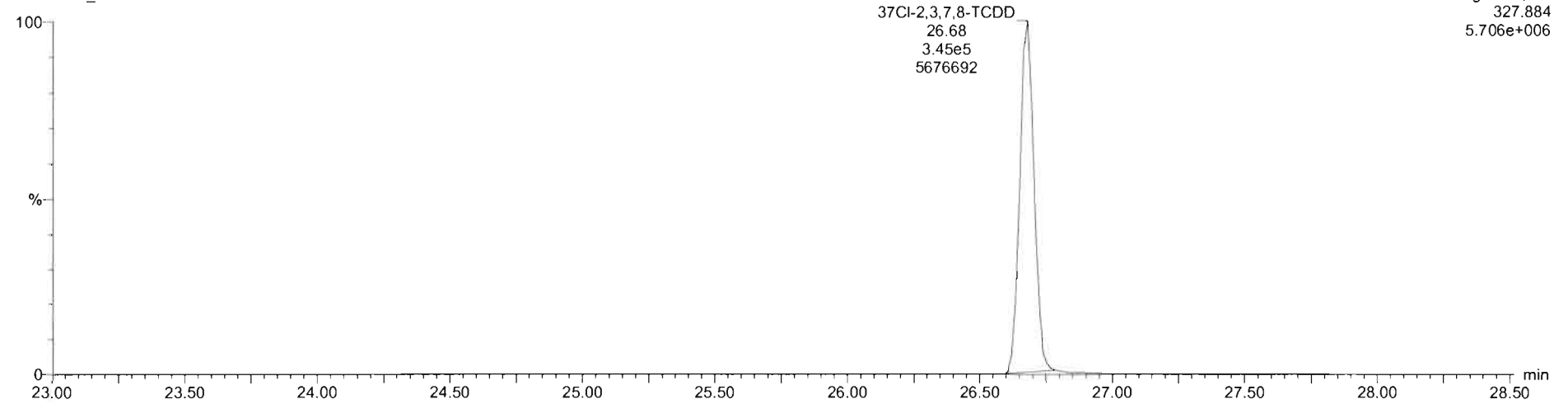
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Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

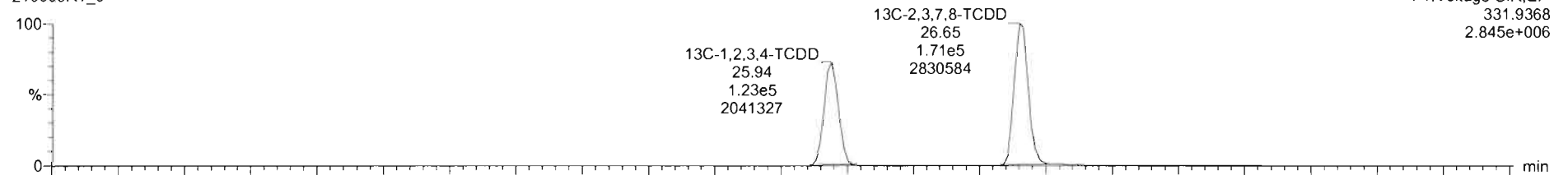
37Cl-2,3,7,8-TCDD

210609R1_6

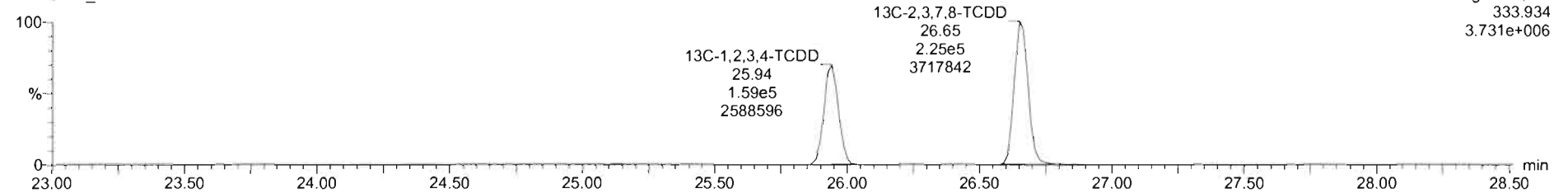


13C-1,2,3,4-TCDD

210609R1_6



210609R1_6

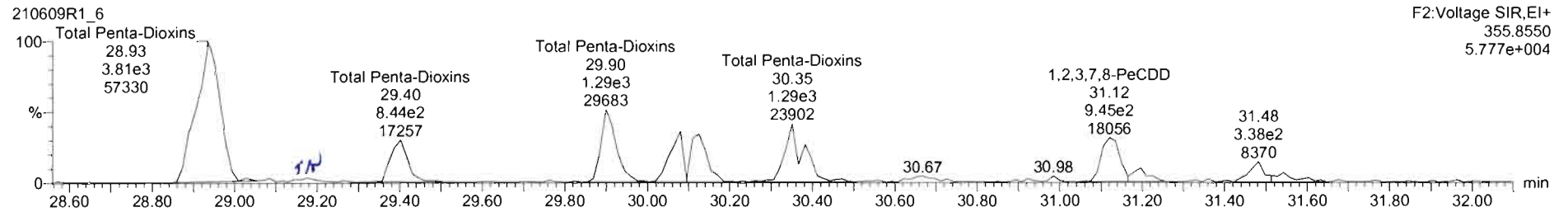
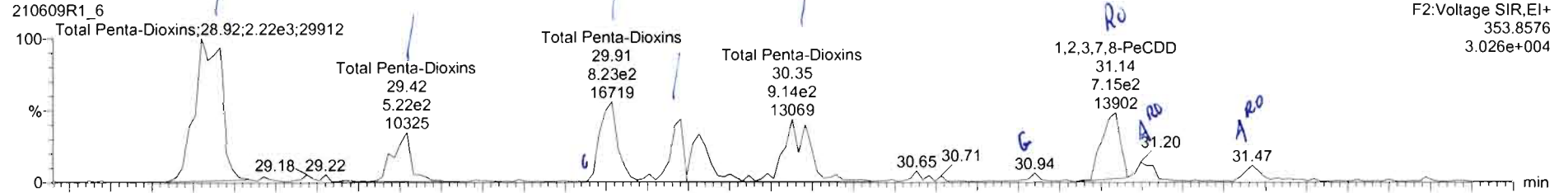


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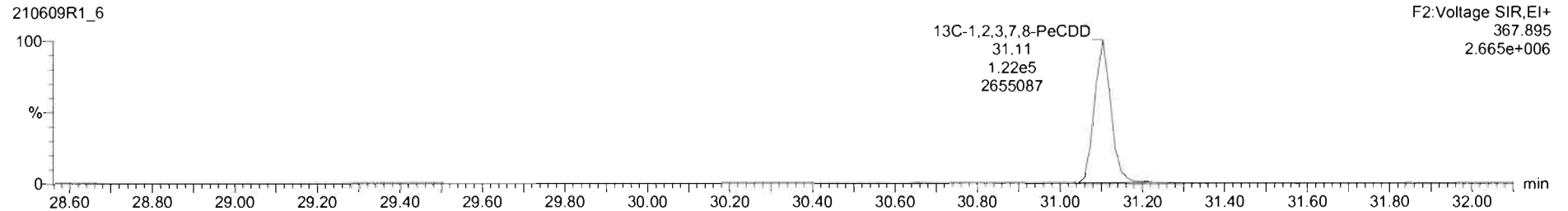
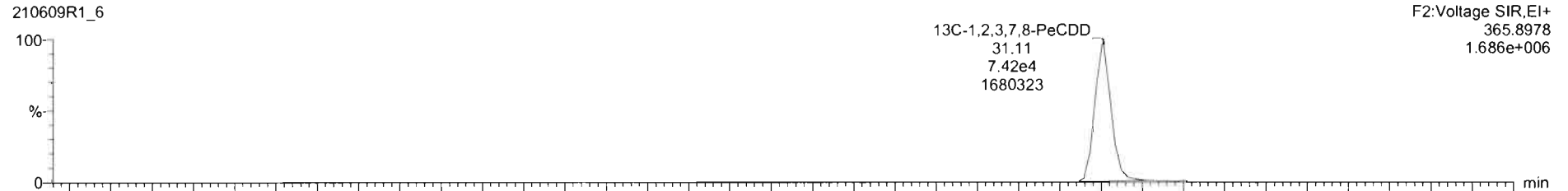
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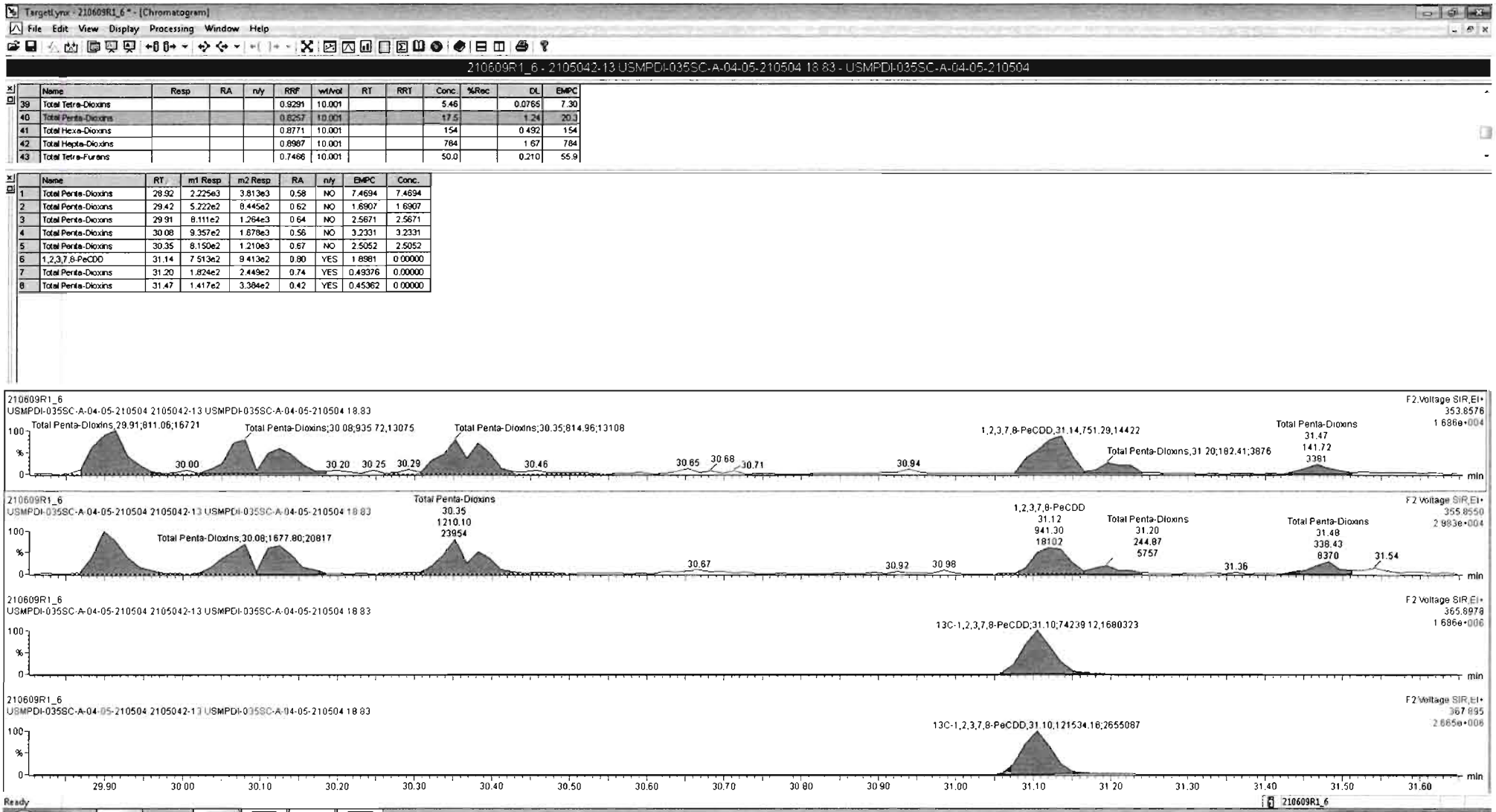
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1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD



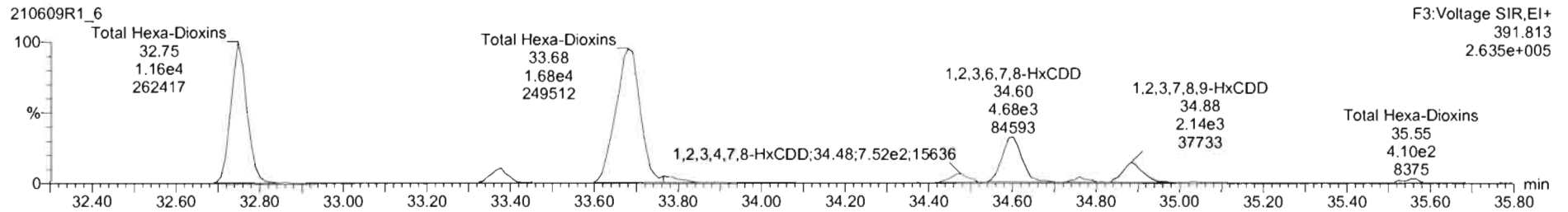
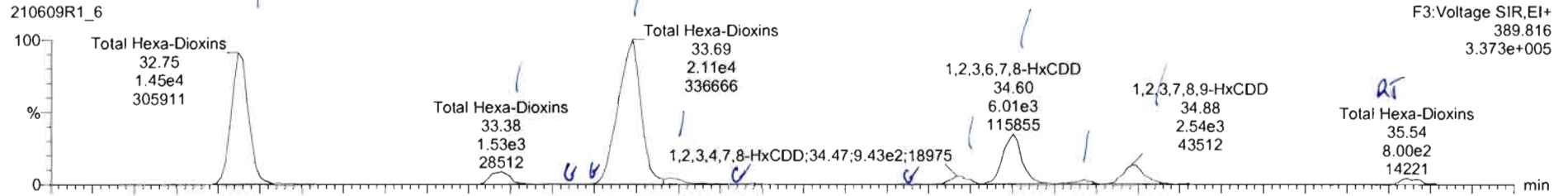


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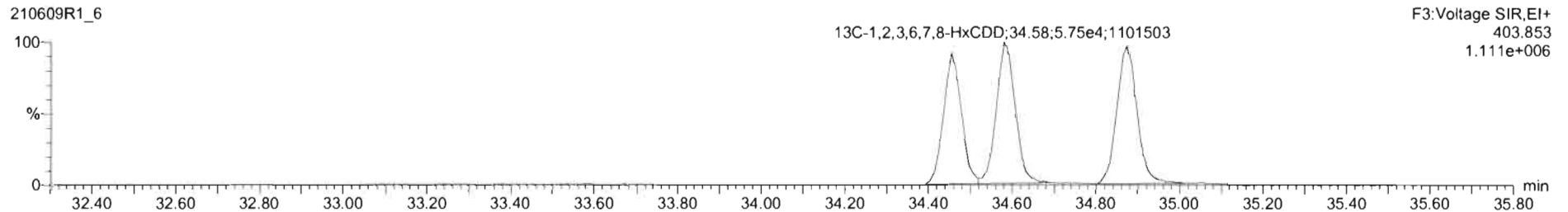
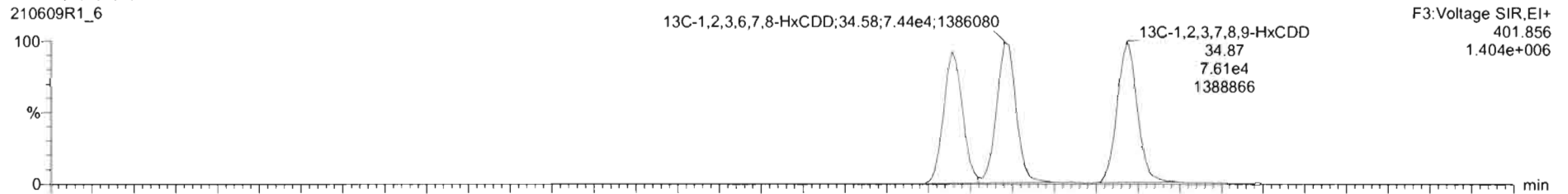
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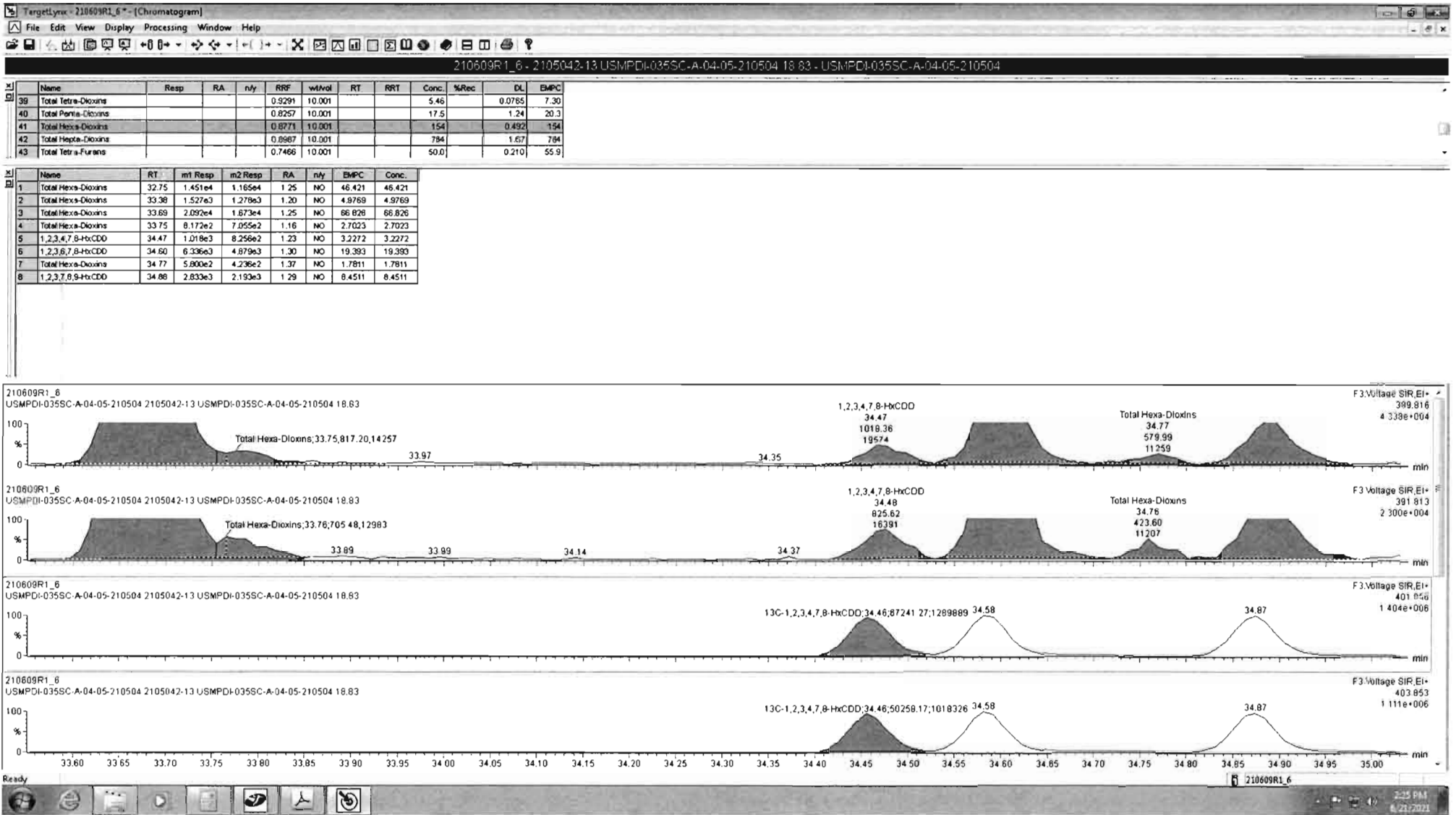
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1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD





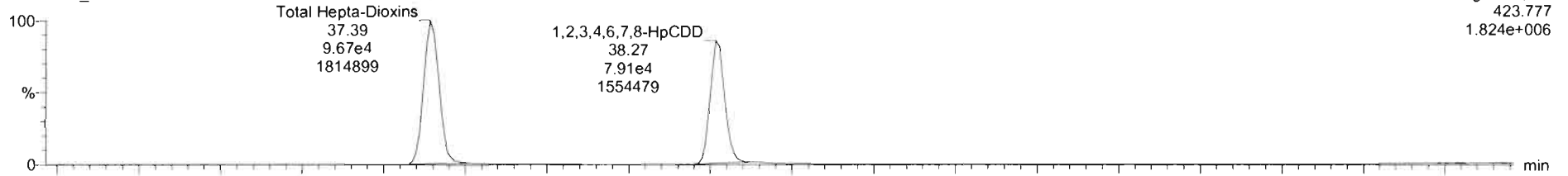
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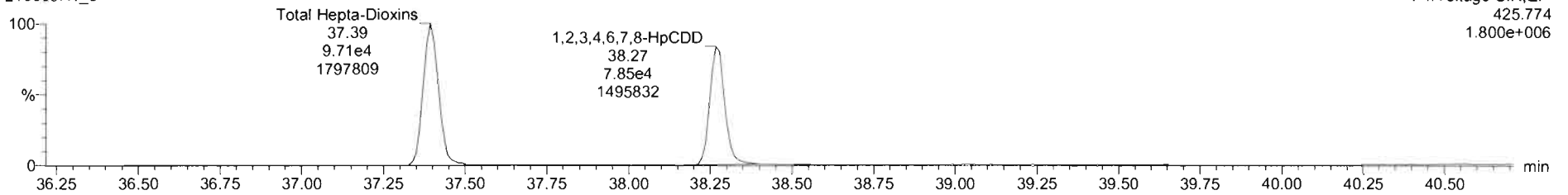
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1,2,3,4,6,7,8-HpCDD

210609R1_6

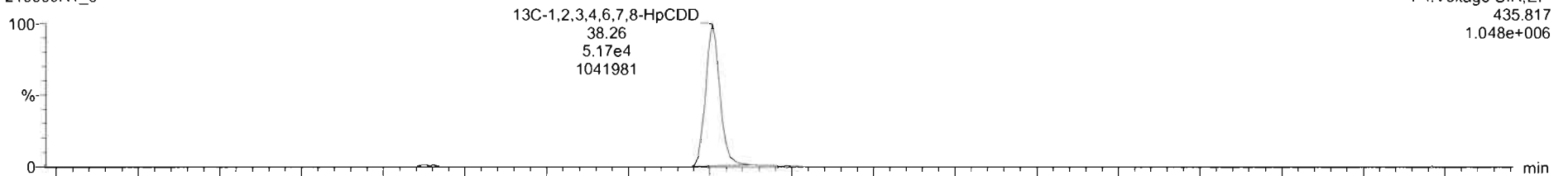


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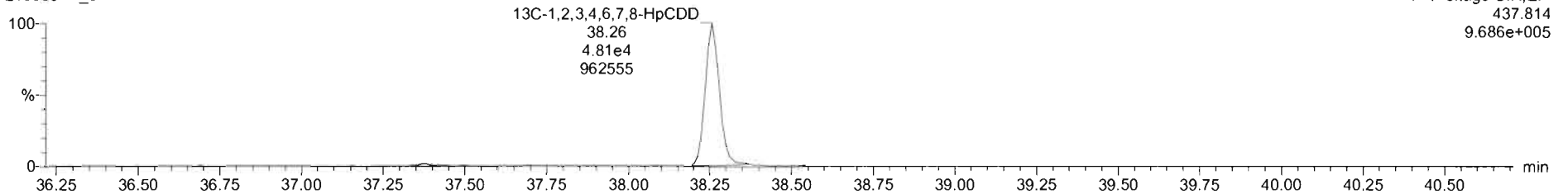


13C-1,2,3,4,6,7,8-HpCDD

210609R1_6



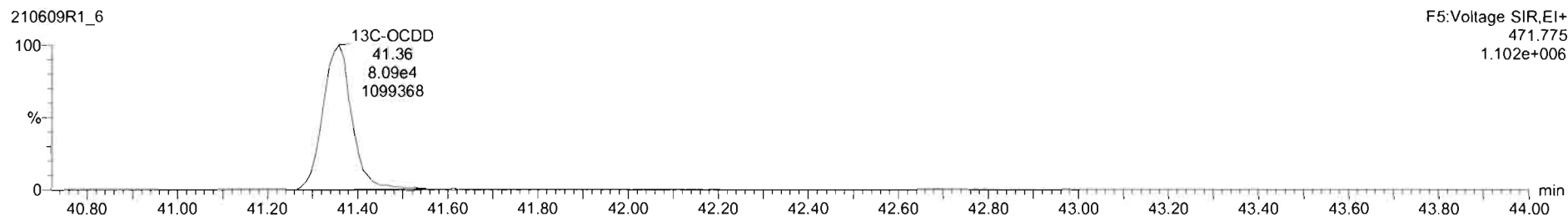
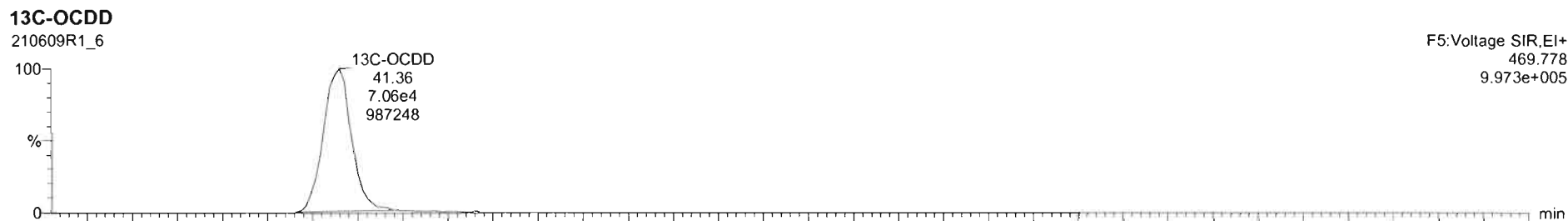
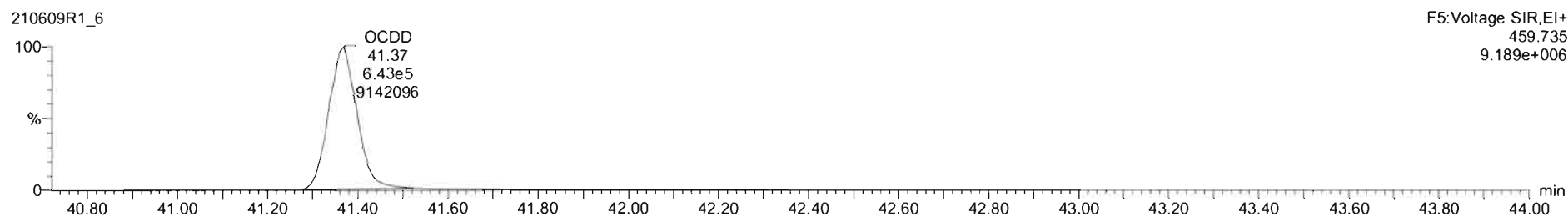
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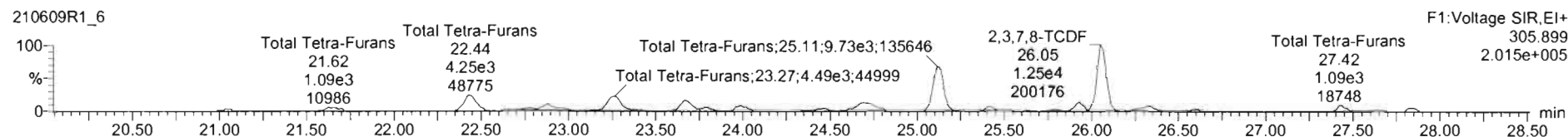
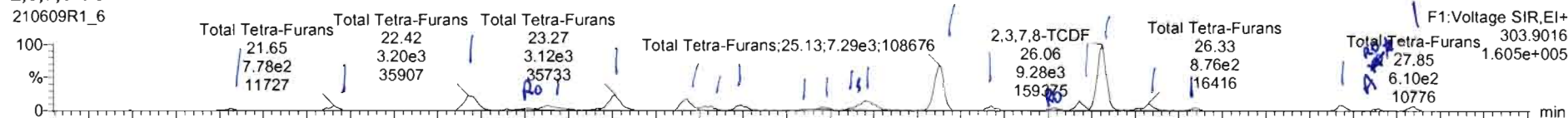


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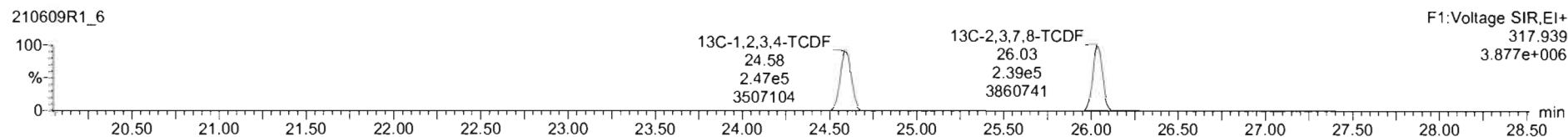
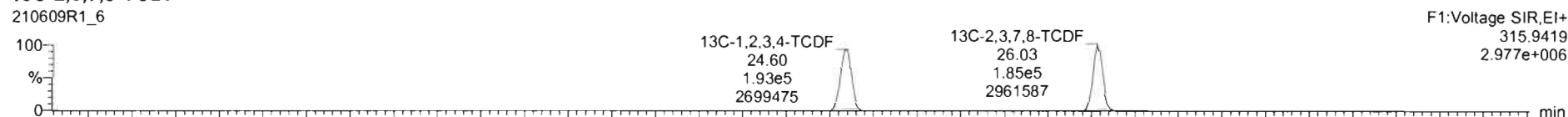
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** by 06/24/2021*
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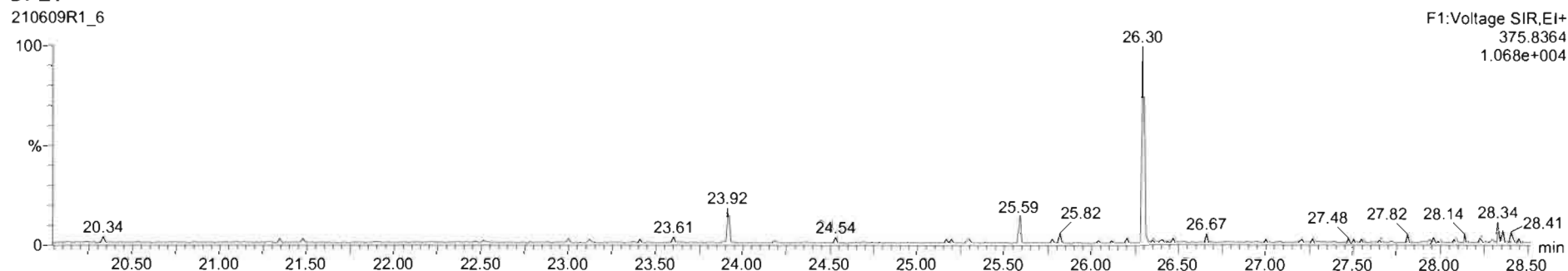
2,3,7,8-TCDF

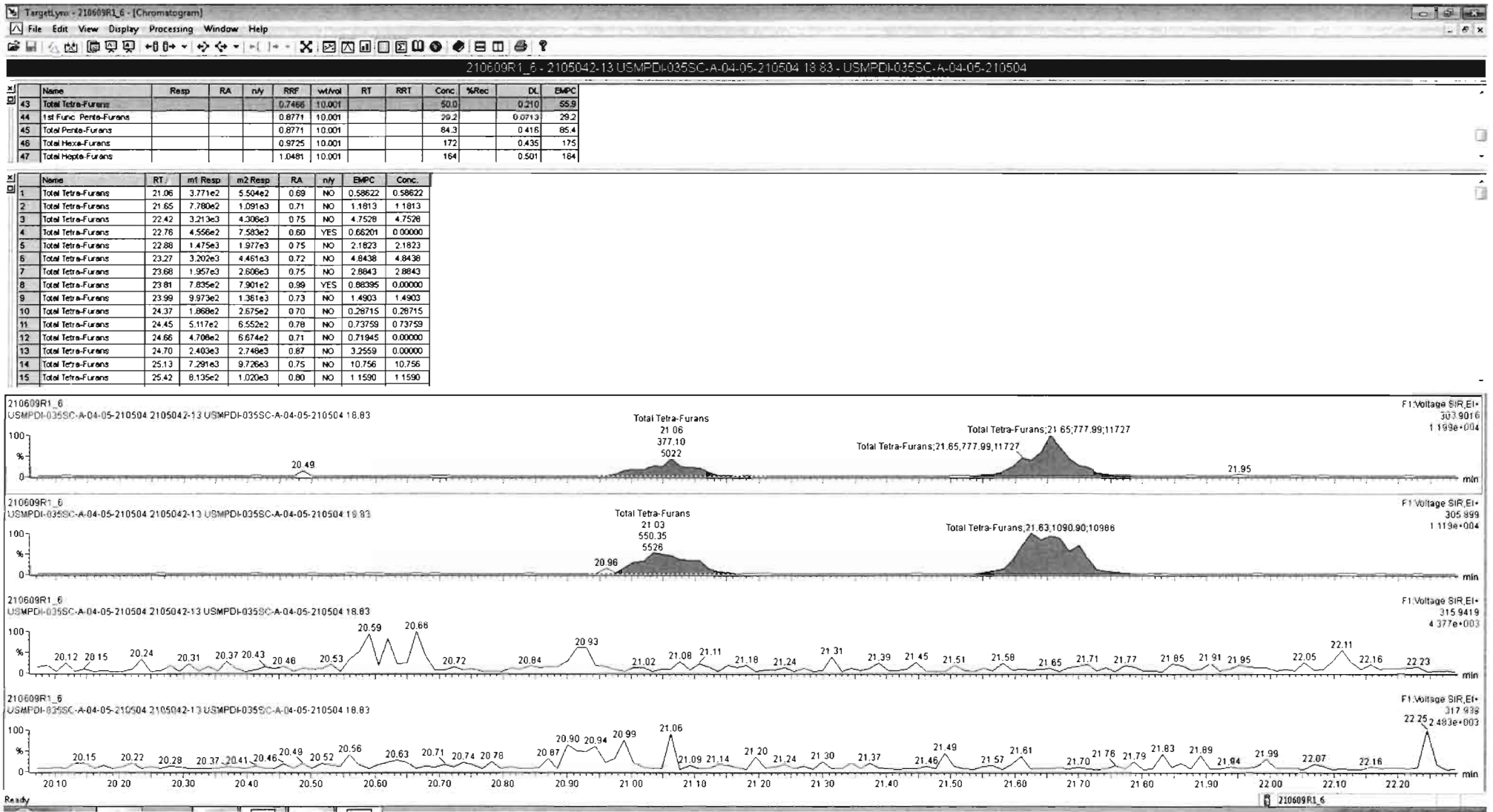


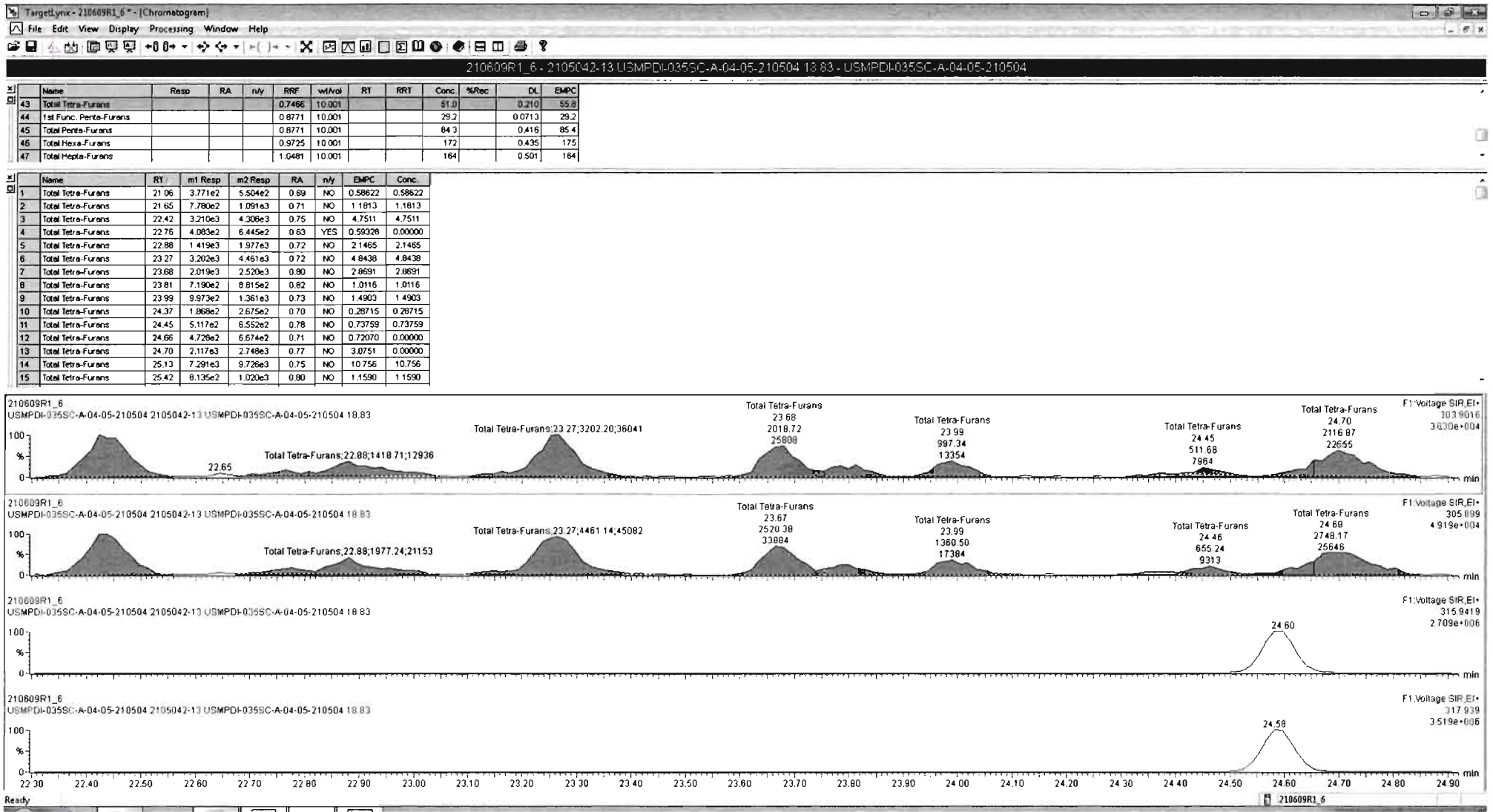
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DPE1

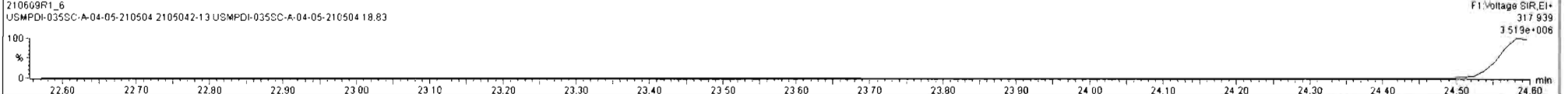
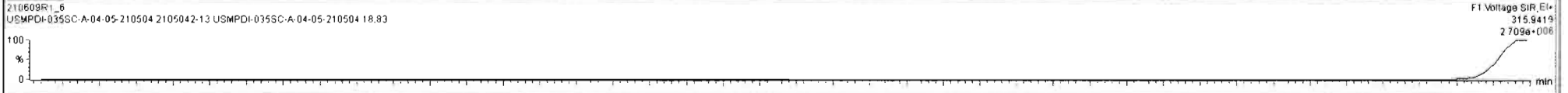
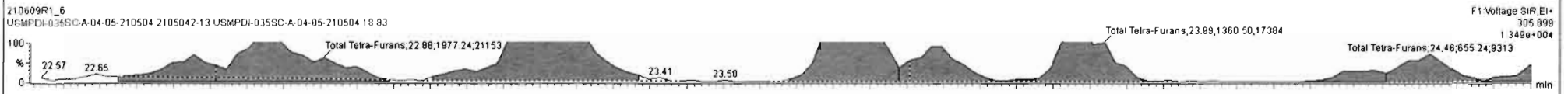
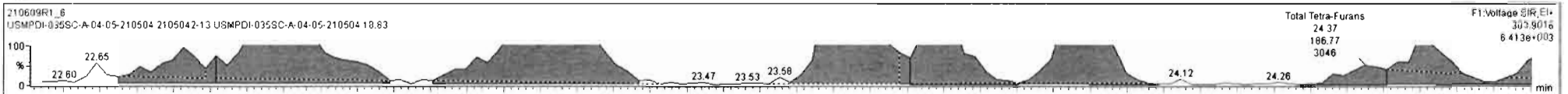


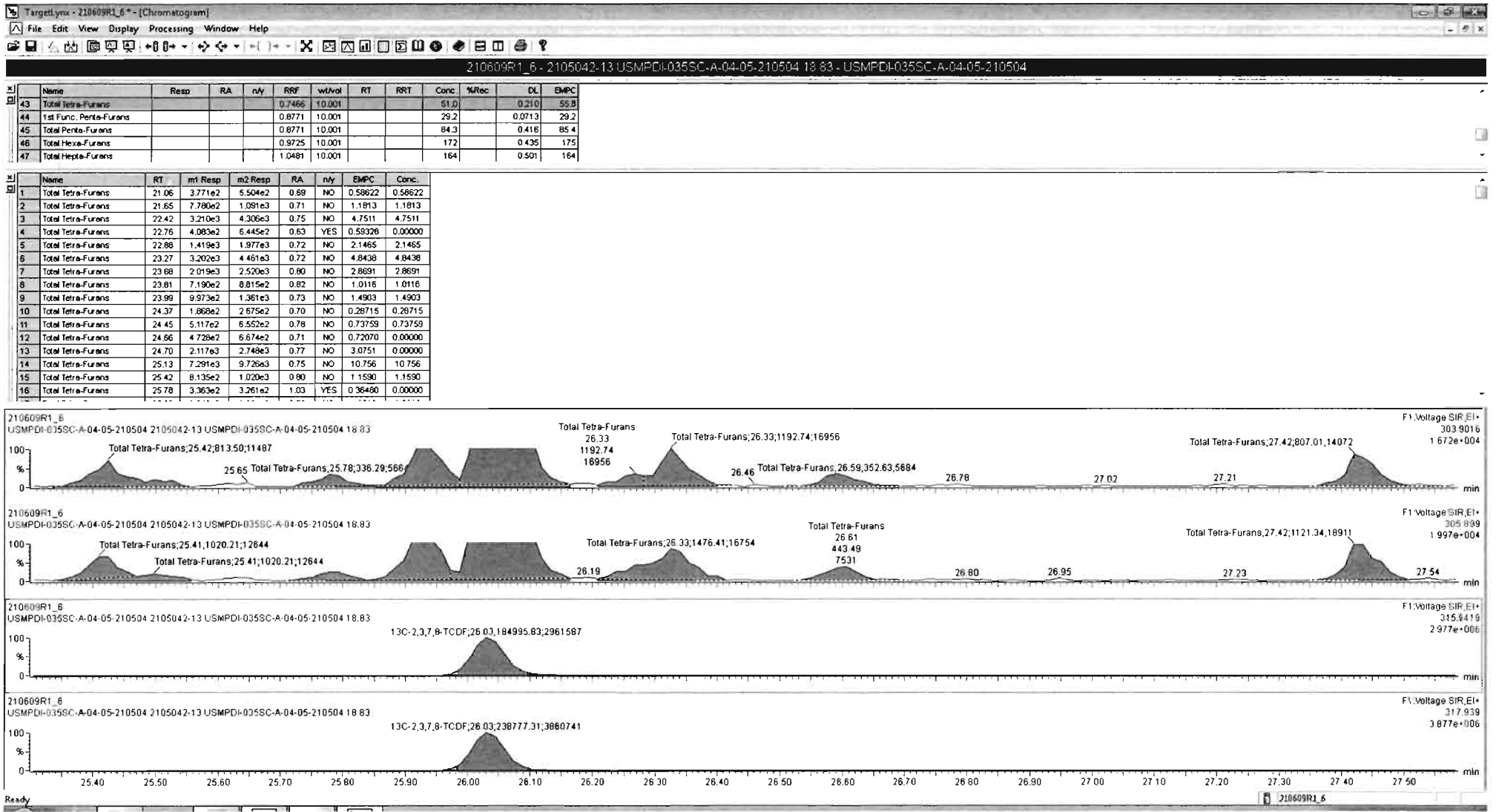


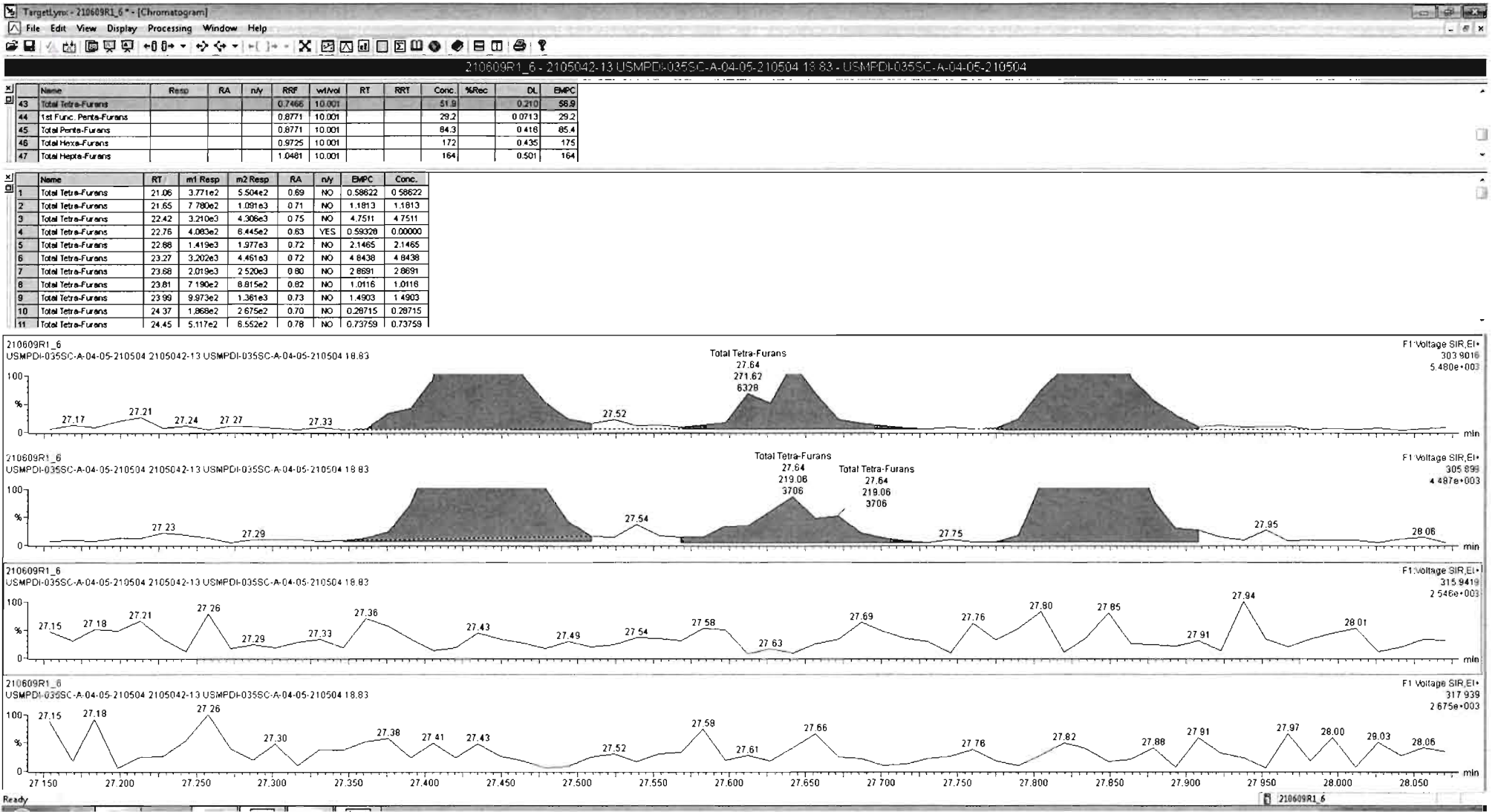


SI	Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7466	10.001			51.0	0.210	55.8	
44	1st Func. Penta-Furans				0.8771	10.001			29.2	0.0713	29.2	
45	Total Penta-Furans				0.8771	10.001			84.3	0.416	85.4	
46	Total Hexa-Furans				0.9725	10.001			172	0.435	175	
47	Total Hepta-Furans				1.0481	10.001			164	0.501	164	

SI	Name	RT	mt Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	21.06	3.771e2	5.504e2	0.69	NO	0.58622	0.58622
2	Total Tetra-Furans	21.65	7.780e2	1.091e3	0.71	NO	1.1813	1.1813
3	Total Tetra-Furans	22.42	3.210e3	4.306e3	0.75	NO	4.7511	4.7511
4	Total Tetra-Furans	22.76	4.083e2	6.445e2	0.63	YES	0.59328	0.00000
5	Total Tetra-Furans	22.88	1.419e3	1.977e3	0.72	NO	2.1465	2.1465
6	Total Tetra-Furans	23.27	3.202e3	4.461e3	0.72	NO	4.8438	4.8438
7	Total Tetra-Furans	23.68	2.019e3	2.520e3	0.80	NO	2.8891	2.8891
8	Total Tetra-Furans	23.81	7.190e2	8.815e2	0.82	NO	1.0116	1.0116
9	Total Tetra-Furans	23.99	9.973e2	1.361e3	0.73	NO	1.4903	1.4903
10	Total Tetra-Furans	24.37	1.868e2	2.675e2	0.70	NO	0.26715	0.26715
11	Total Tetra-Furans	24.45	5.117e2	6.552e2	0.78	NO	0.73759	0.73759
12	Total Tetra-Furans	24.66	4.728e2	6.674e2	0.71	NO	0.72070	0.00000
13	Total Tetra-Furans	24.70	2.117e3	2.748e3	0.77	NO	3.0751	0.00000
14	Total Tetra-Furans	25.13	7.291e3	9.726e3	0.75	NO	10.756	10.756
15	Total Tetra-Furans	25.42	8.135e2	1.020e3	0.80	NO	1.1590	1.1590
16	Total Tetra-Furans	25.78	3.363e2	3.261e2	1.03	YES	0.36490	0.00000







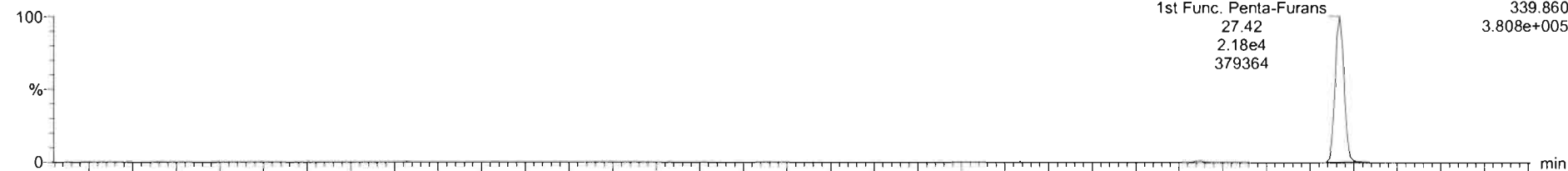
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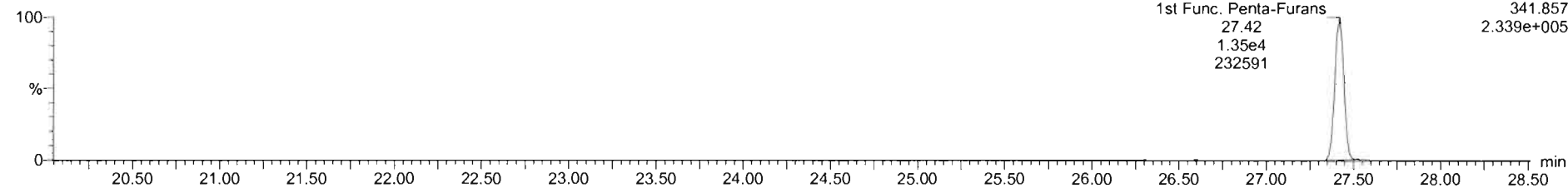
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1st Func. Penta-Furans

210609R1_6

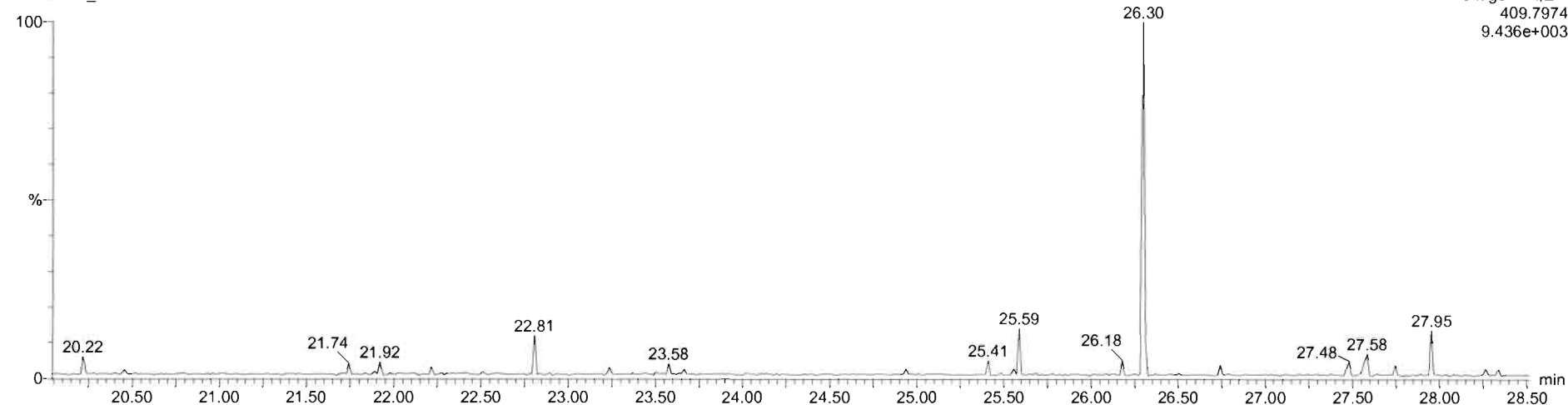


210609R1_6



DPE6

210609R1_6

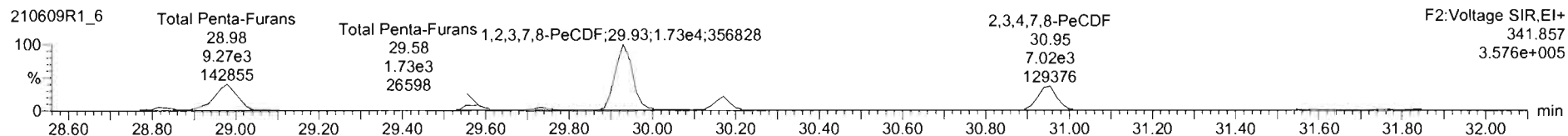
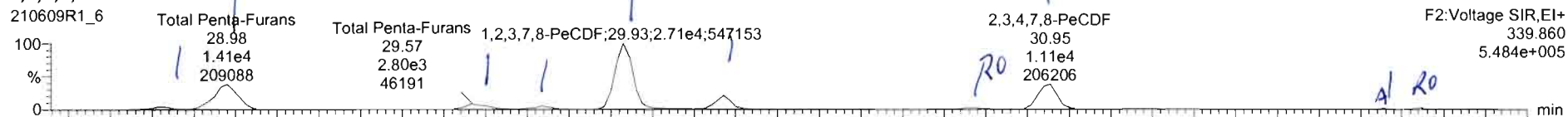


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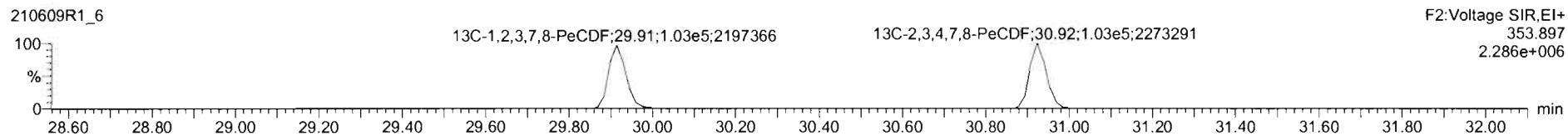
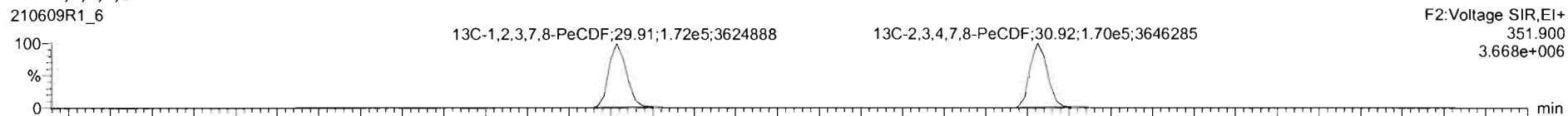
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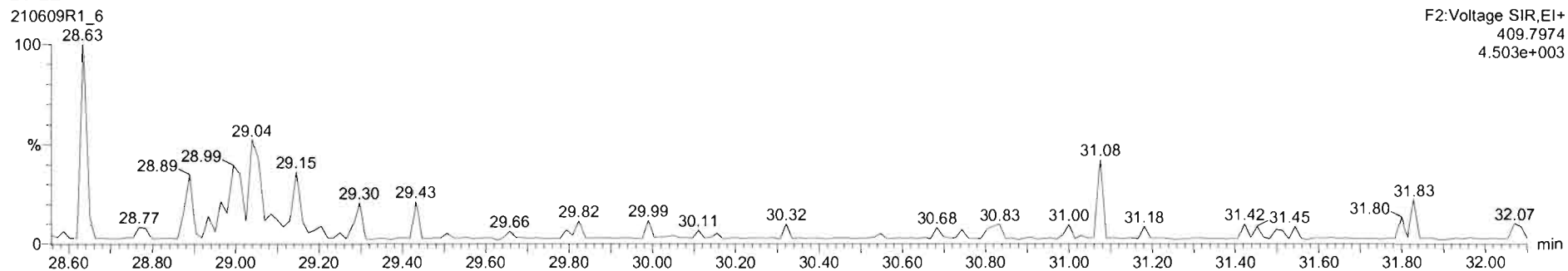
1,2,3,7,8-PeCDF

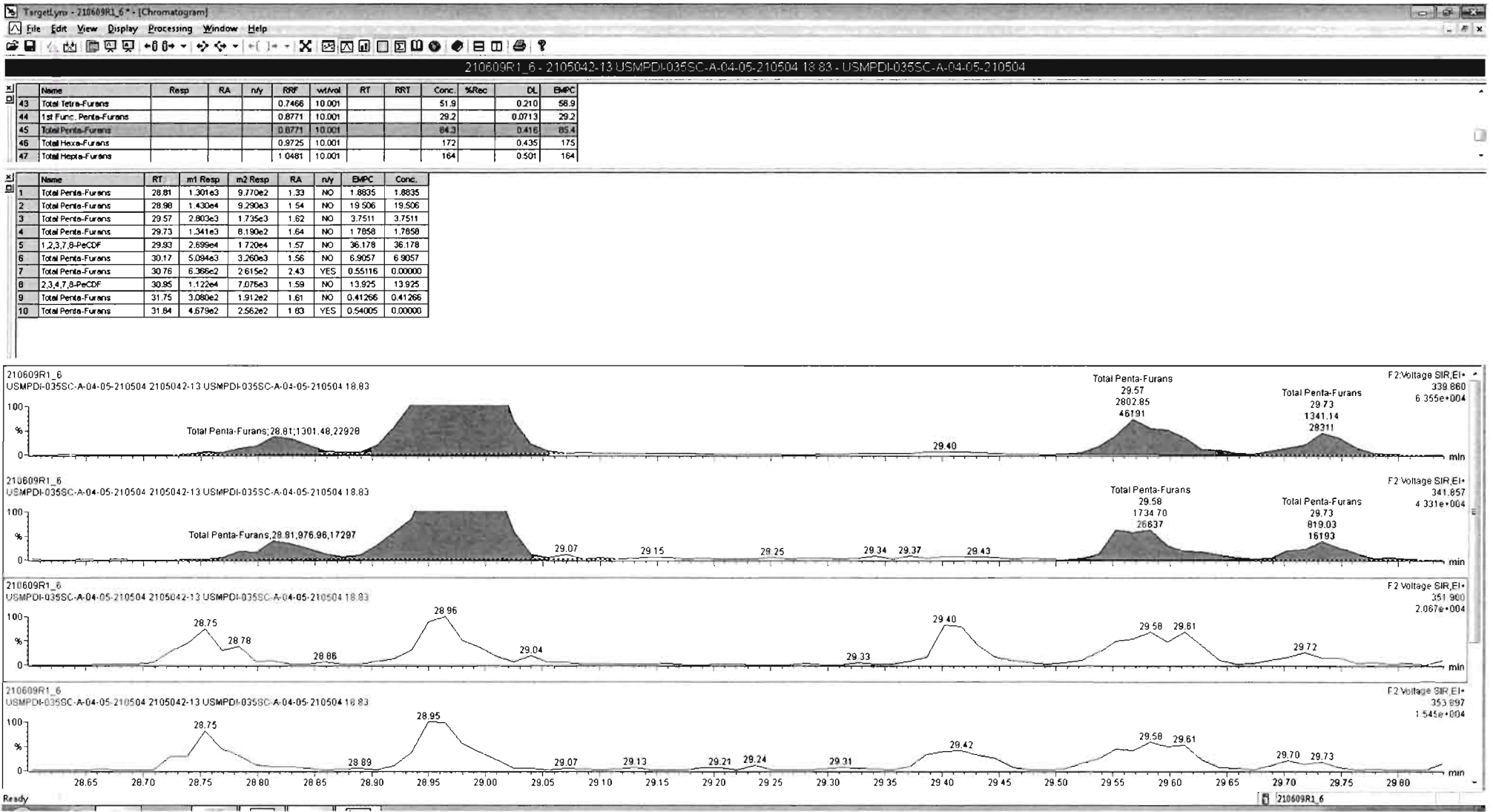


13C-1,2,3,7,8-PeCDF



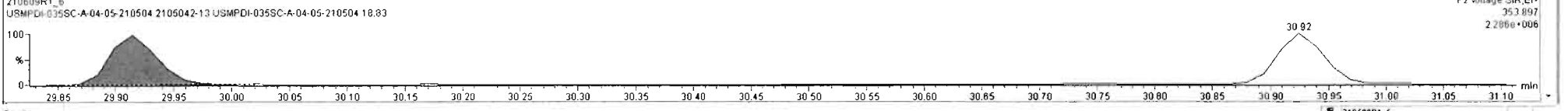
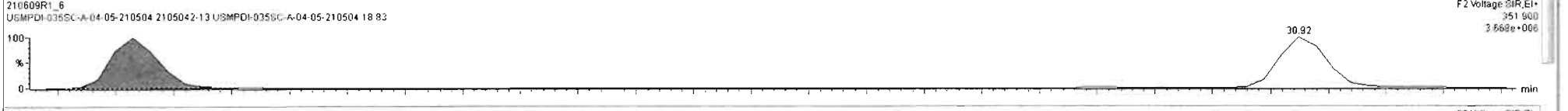
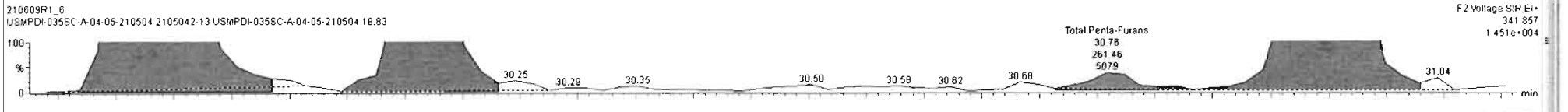
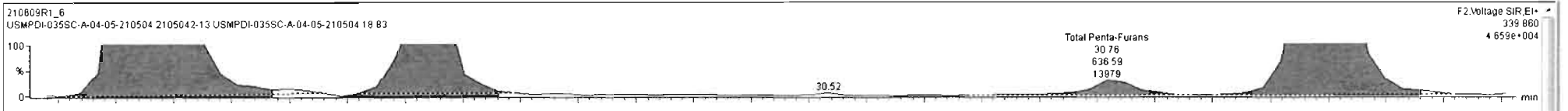
DPE2

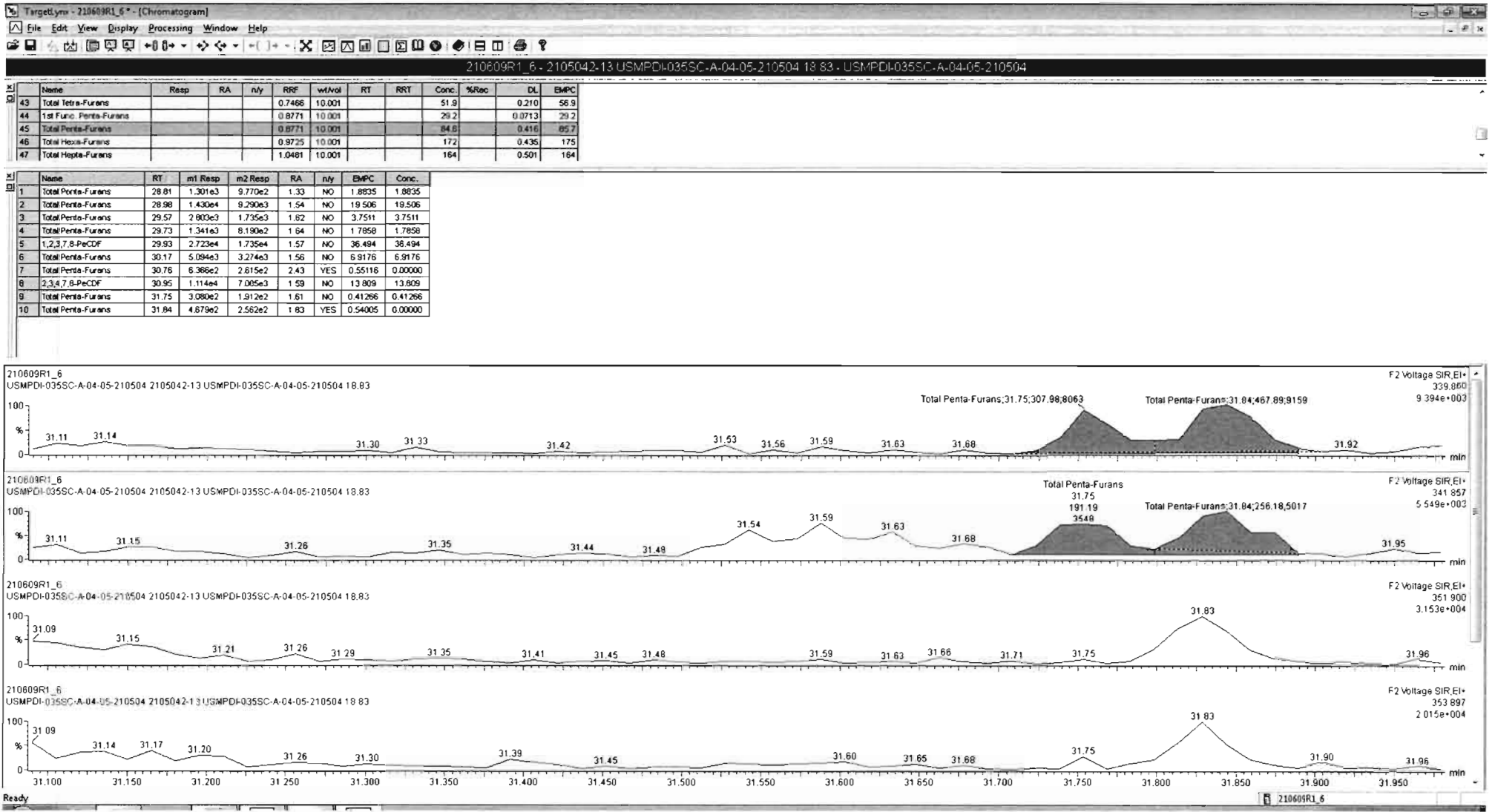




Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.001			51.9	0.210	0.210	56.9
44 1st Func. Penta-Furans				0.8771	10.001			29.2	0.0713	0.0713	29.2
45 Total Penta-Furans				0.8771	10.001			84.8	0.416	0.416	85.7
46 Total Hexa-Furans				0.9725	10.001			172	0.435	0.435	175
47 Total Hepta-Furans				1.0481	10.001			164	0.501	0.501	164

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.81	1.301e3	9.770e2	1.33	NO	1.8835	1.8835
2 Total Penta-Furans	28.98	1.430e4	9.290e3	1.54	NO	19.506	19.506
3 Total Penta-Furans	29.57	2.803e3	1.735e3	1.82	NO	3.7511	3.7511
4 Total Penta-Furans	29.73	1.341e3	8.190e2	1.84	NO	1.7858	1.7858
5 1,2,3,7,8-PeCDF	29.83	2.723e4	1.735e4	1.57	NO	36.494	36.494
6 Total Penta-Furans	30.17	5.094e3	3.274e3	1.56	NO	6.9176	6.9176
7 Total Penta-Furans	30.76	6.386e2	2.615e2	2.43	YES	0.55116	0.00000
8 2,3,4,7,8-PeCDF	30.85	1.114e4	7.005e3	1.59	NO	13.809	13.809
9 Total Penta-Furans	31.75	3.080e2	1.912e2	1.61	NO	0.41266	0.41266
10 Total Penta-Furans	31.84	4.679e2	2.562e2	1.83	YES	0.54005	0.00000



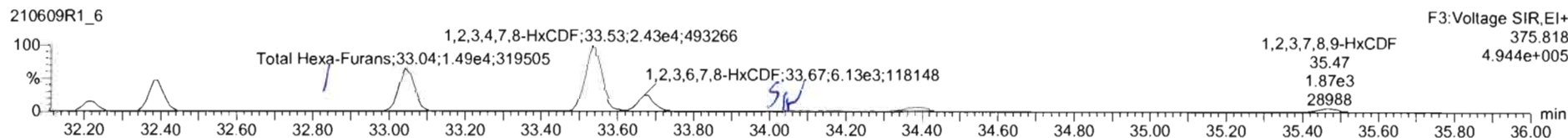
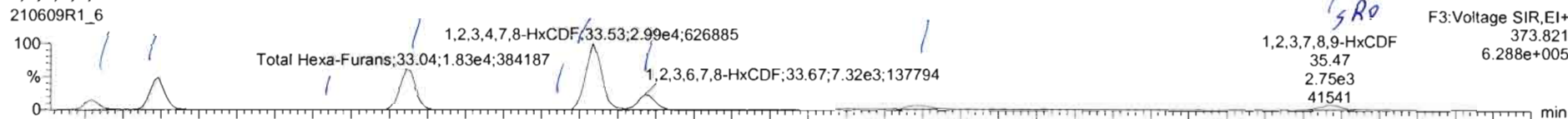


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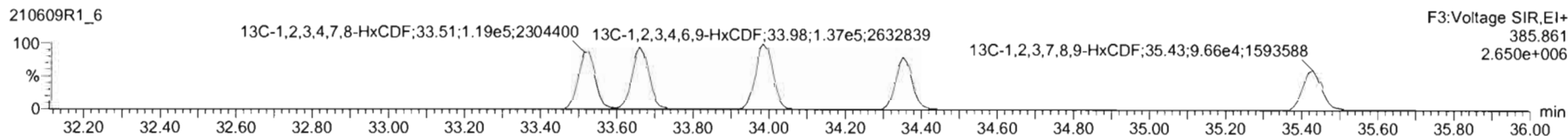
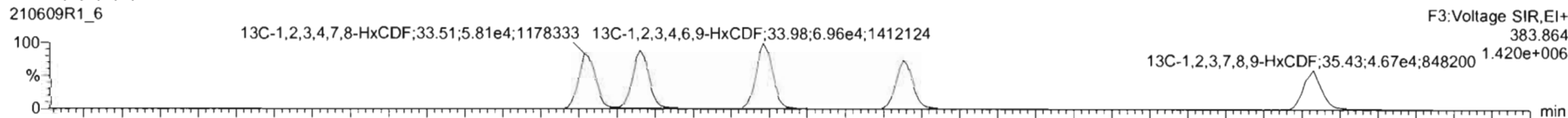
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Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

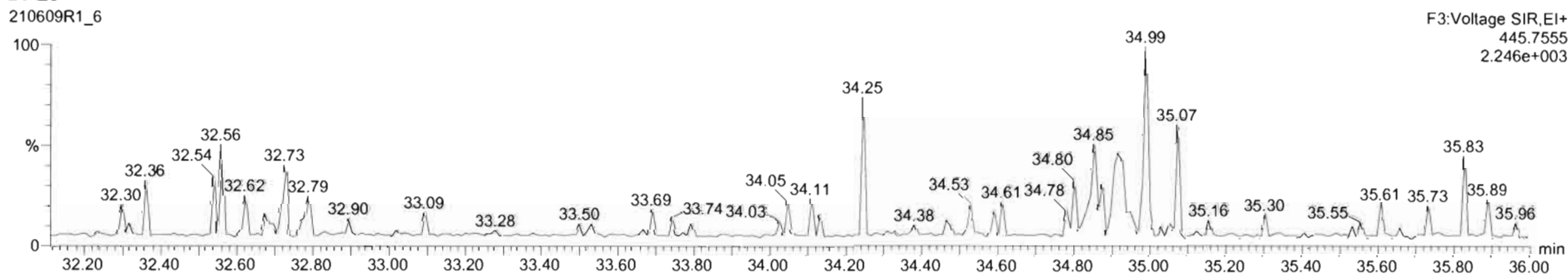
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



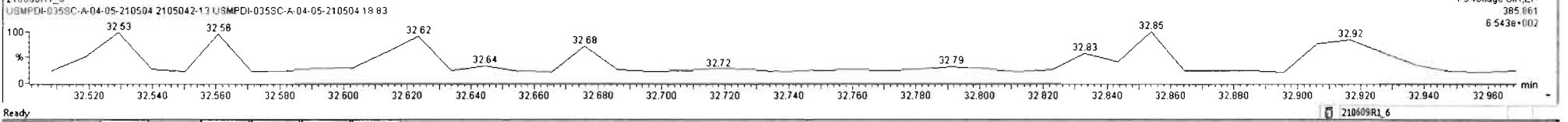
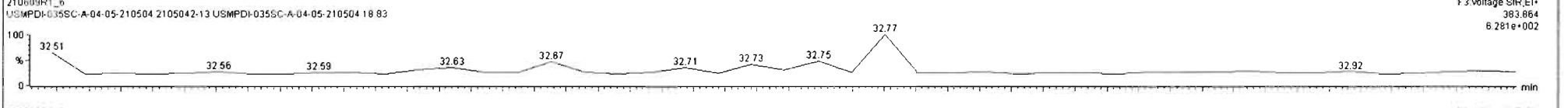
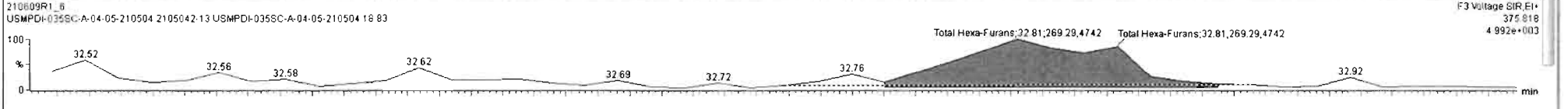
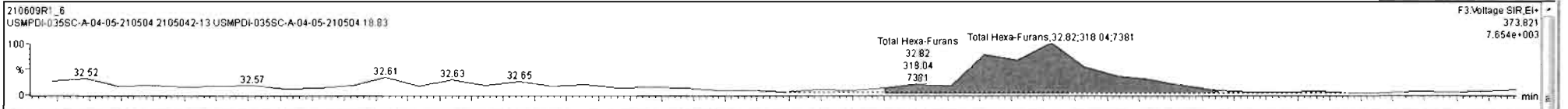
DPE3



210609R1_6 - 2105042-13 USMPDI-035SC-A-04-05-210504 18 83 - USMPDI-035SC-A-04-05-210504

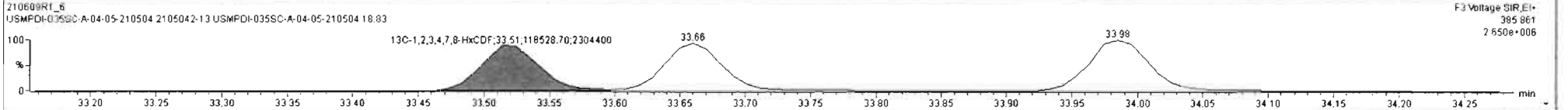
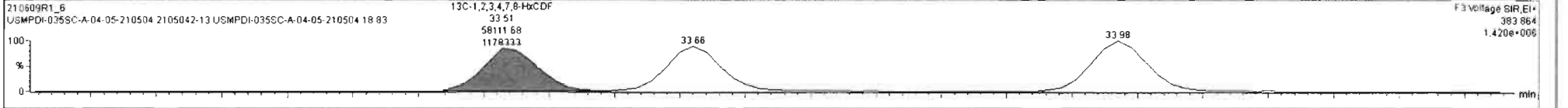
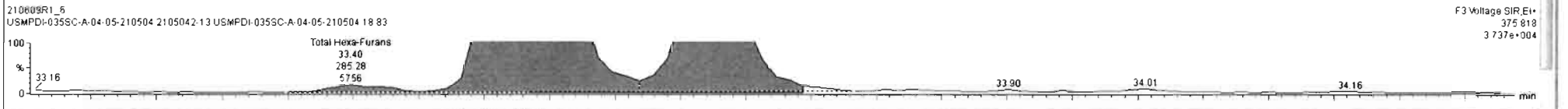
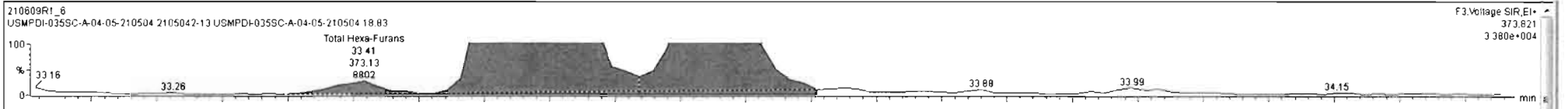
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.001			51.9	0.210	56.9	
44 1st Func. Penta-Furans				0.8771	10.001			29.2	0.0713	29.2	
45 Total Penta-Furans				0.8771	10.001			84.6	0.416	85.7	
46 Total Hexa-Furans				0.9725	10.001			172	0.435	175	
47 Total Hepta-Furans				1.0481	10.001			164	0.501	164	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	4.206e3	3.349e3	1.26	NO	9.2418	8.2418
2 Total Hexa-Furans	32.39	1.374e4	1.078e4	1.27	NO	30.005	30.005
3 Total Hexa-Furans	32.82	3.180e2	2.693e2	1.18	NO	0.71848	0.71848
4 Total Hexa-Furans	33.04	1.828e4	1.489e4	1.23	NO	40.580	40.580
5 Total Hexa-Furans	33.41	3.731e2	2.853e2	1.31	NO	0.80543	0.80543
6 1,2,3,4,7,8-HxCDF	33.53	3.010e4	2.435e4	1.24	NO	66.989	66.989
7 1,2,3,6,7,8-HxCDF	33.67	7.654e3	6.196e3	1.24	NO	15.699	15.699
8 2,3,4,6,7,8-HxCDF	34.39	2.381e3	1.929e3	1.24	NO	5.4025	5.4025
9 1,2,3,7,8-HxCDF	35.46	9.516e2	7.308e2	1.30	NO	2.4989	2.4989
10 Total Hexa-Furans	35.47	1.776e3	1.197e3	1.48	YES	3.2813	0.00000



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7466	10.001			51.9		0.210	56.9
44 1st Func. Penta-Furans				0.8771	10.001			29.2		0.0713	29.2
45 Total Penta-Furans				0.8771	10.001			84.6		0.416	85.7
46 Total Hexa-Furans				0.9725	10.001			172		0.435	175
47 Total Hepta-Furans				1.0481	10.001			164		0.501	184

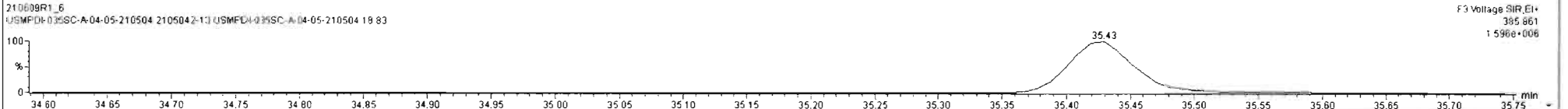
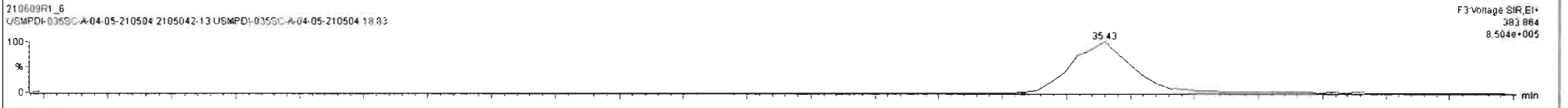
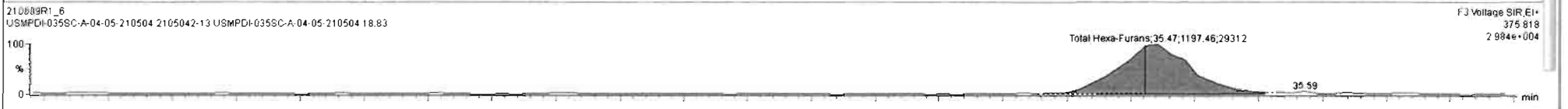
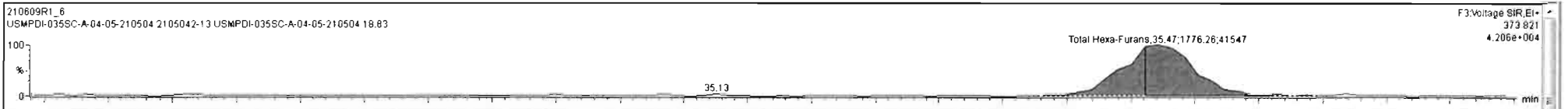
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	4.206e3	3.349e3	1.26	NO	9.2418	9.2418
2 Total Hexa-Furans	32.39	1.374e4	1.078e4	1.27	NO	30.005	30.005
3 Total Hexa-Furans	32.82	3.190e2	2.693e2	1.18	NO	0.71848	0.71848
4 Total Hexa-Furans	33.04	1.826e4	1.489e4	1.23	NO	40.580	40.580
5 Total Hexa-Furans	33.41	3.731e2	2.853e2	1.31	NO	0.80543	0.80543
6 1,2,3,4,7,8-HxCDF	33.53	3.010e4	2.435e4	1.24	NO	66.989	66.989
7 1,2,3,6,7,8-HxCDF	33.67	7.714e3	6.196e3	1.25	NO	15.766	15.766
8 2,3,4,6,7,8-HxCDF	34.39	2.381e3	1.928e3	1.24	NO	5.4025	5.4025
9 1,2,3,7,8,9-HxCDF	35.46	9.516e2	7.308e2	1.30	NO	2.4989	2.4989
10 Total Hexa-Furans	35.47	1.776e3	1.197e3	1.46	YES	3.2813	0.00000



210609R1_6 - 2106042-13 USMPDI-035SC-A-04-05-210504 18.83 - USMPDI-035SC-A-04-05-210504

Name	Resp	RA	n/y	RRF	wfVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7486	10.001			51.9		0.210	56.9
44 1st Func. Penta-Furans				0.8771	10.001			29.2		0.0713	29.2
45 Total Penta-Furans				0.8771	10.001			84.6		0.418	85.7
46 Total Hexa-Furans				0.9725	10.001			172		0.436	175
47 Total Hepta-Furans				1.0481	10.001			164		0.501	164

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.22	4.206e3	3.349e3	1.26	NO	9.2418	9.2418
2 Total Hexa-Furans	32.39	1.374e4	1.078e4	1.27	NO	30.005	30.005
3 Total Hexa-Furans	32.82	3.180e2	2.693e2	1.18	NO	0.71848	0.71848
4 Total Hexa-Furans	33.04	1.828e4	1.489e4	1.23	NO	40.580	40.580
5 Total Hexa-Furans	33.41	3.731e2	2.853e2	1.31	NO	0.80543	0.80543
6 1,2,3,4,7,8-HxCDF	33.53	3.010e4	2.435e4	1.24	NO	66.989	66.989
7 1,2,3,6,7,8-HxCDF	33.67	7.714e3	6.196e3	1.25	NO	15.786	15.786
8 2,3,4,6,7,8-HxCDF	34.39	2.391e3	1.928e3	1.24	NO	5.4025	5.4025
9 1,2,3,7,8,9-HxCDF	35.46	9.516e2	7.308e2	1.30	NO	2.4989	2.4989
10 Total Hexa-Furans	35.47	1.776e3	1.197e3	1.48	YES	3.2813	0.00000

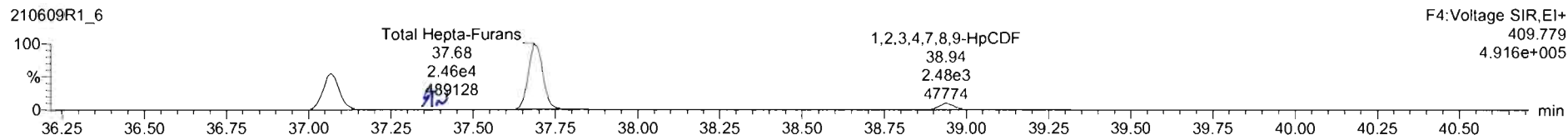
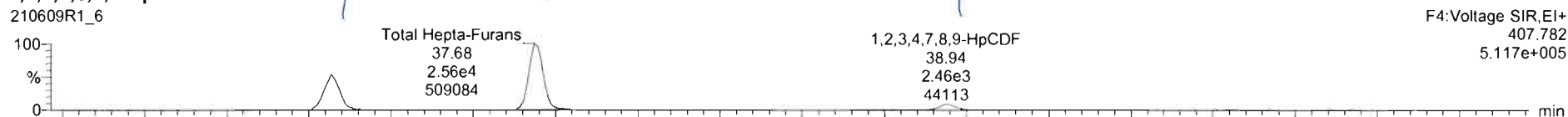


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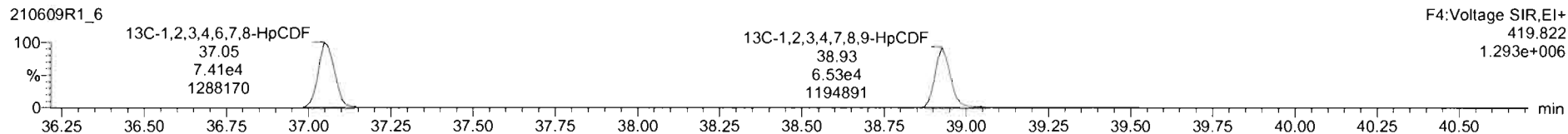
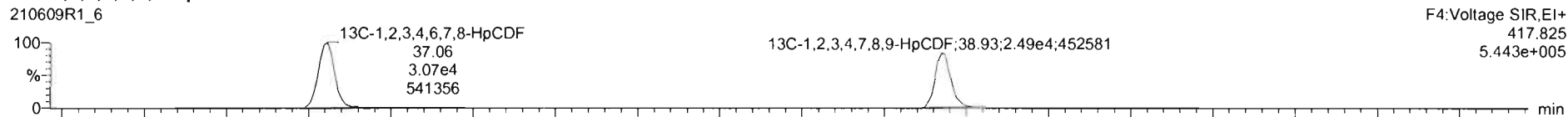
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Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504

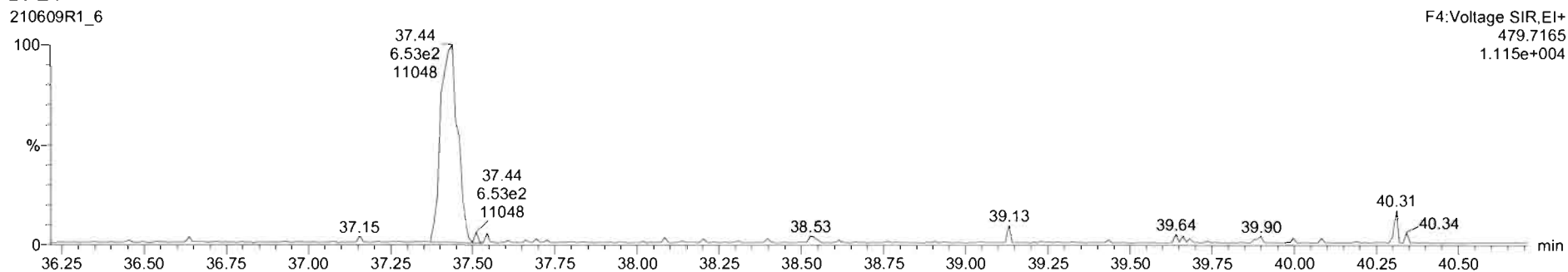
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13C-1,2,3,4,6,7,8-HpCDF

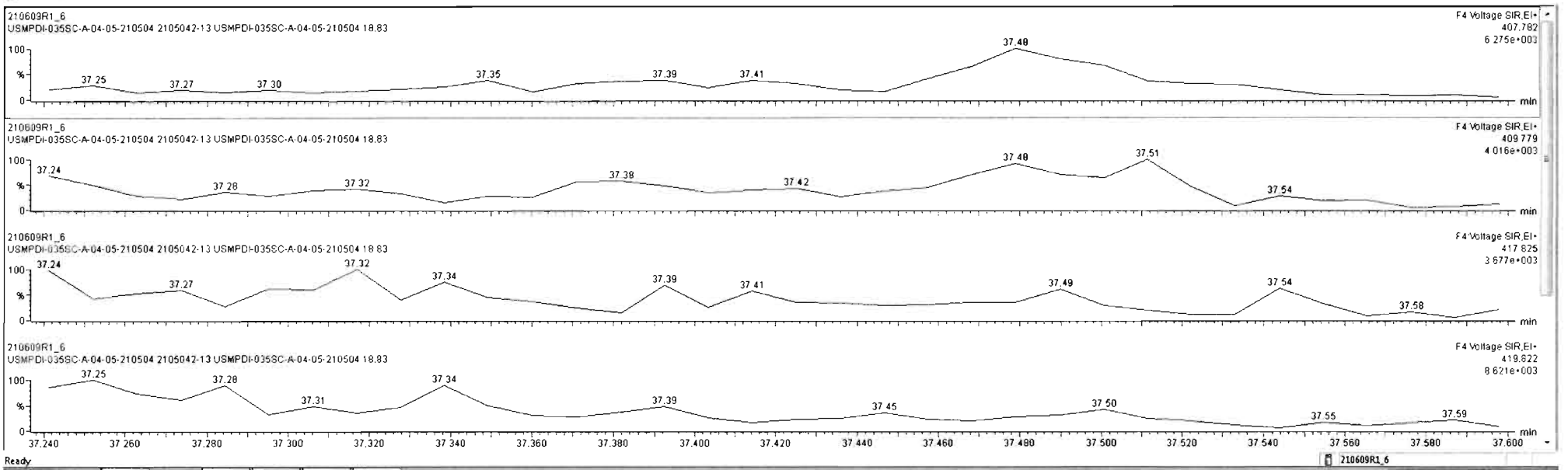


DPE4



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hapta-Furans				1.0481	10.001			164		0.501	164
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

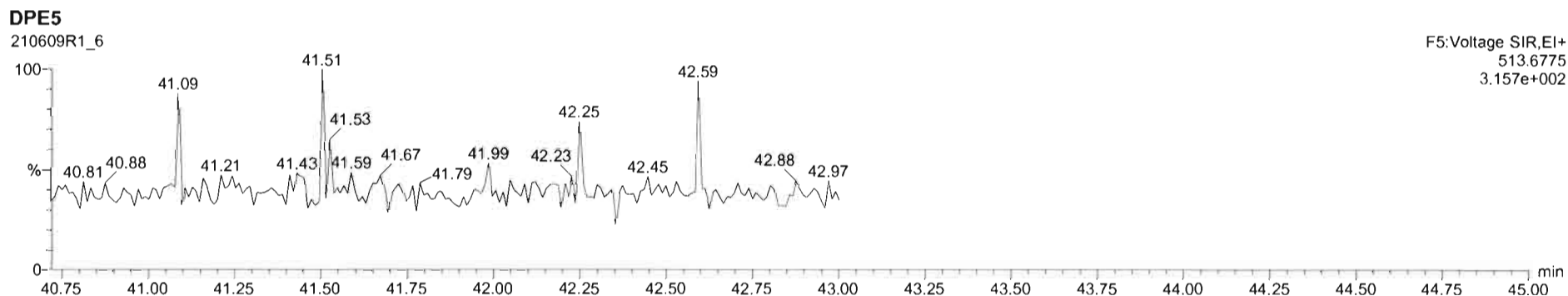
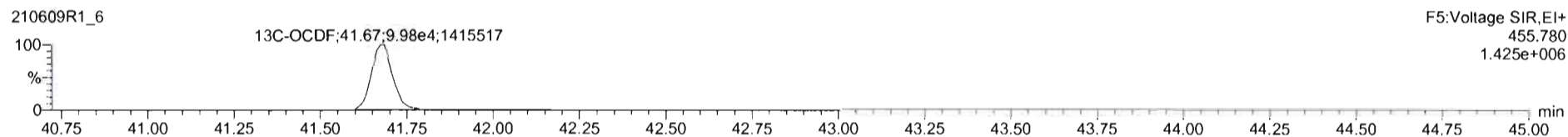
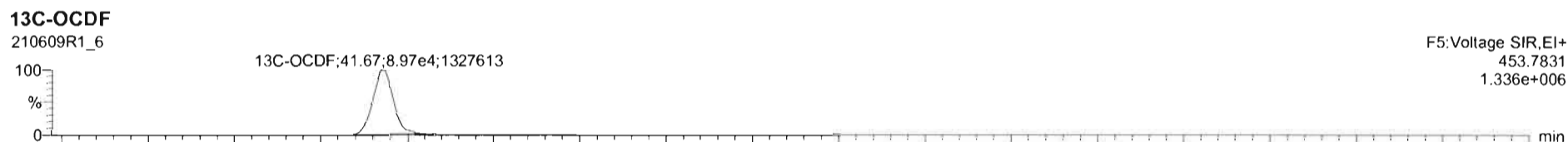
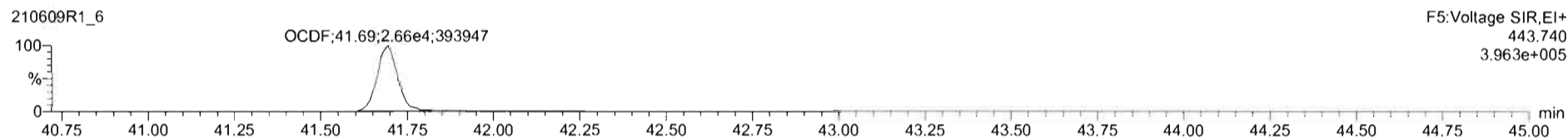
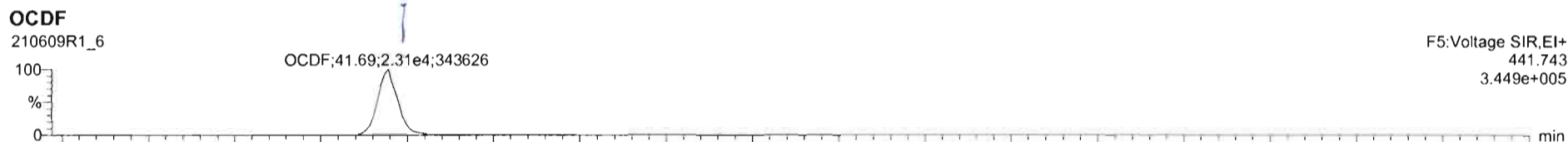
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.07	1.501e4	1.554e4	0.97	NO	55.625	55.625
2 Total Hapta-Furans	37.68	2.562e4	2.459e4	1.04	NO	98.254	98.254
3 1,2,3,4,7,8,9-HpCDF	38.94	2.462e3	2.477e3	0.99	NO	10.471	10.471



Dataset: Untitled

Last Altered: Tuesday, June 15, 2021 13:41:45 Pacific Daylight Time
Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

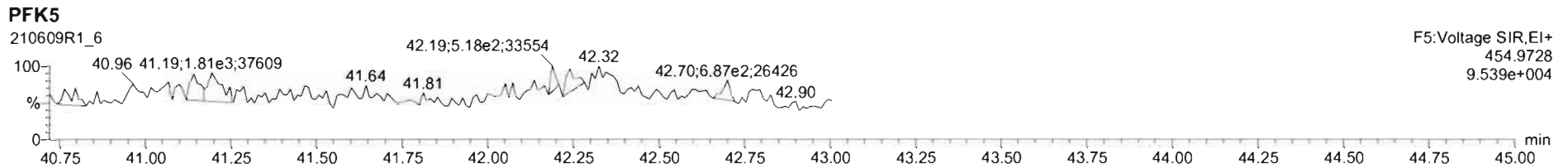
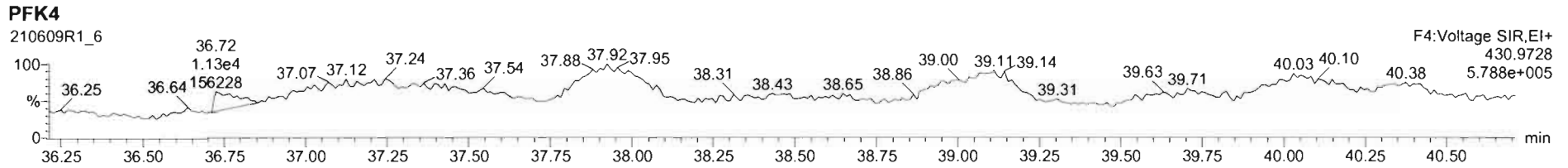
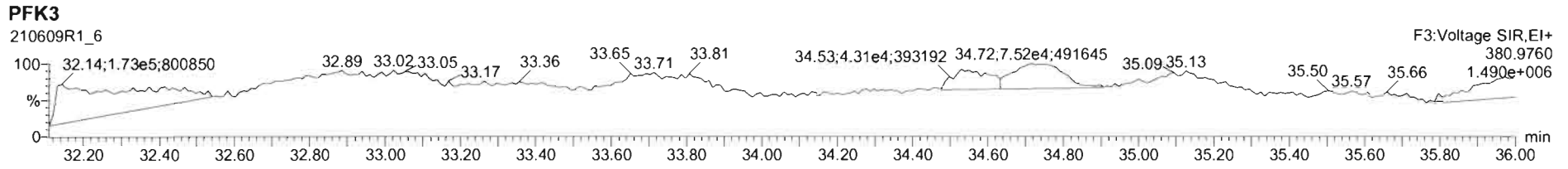
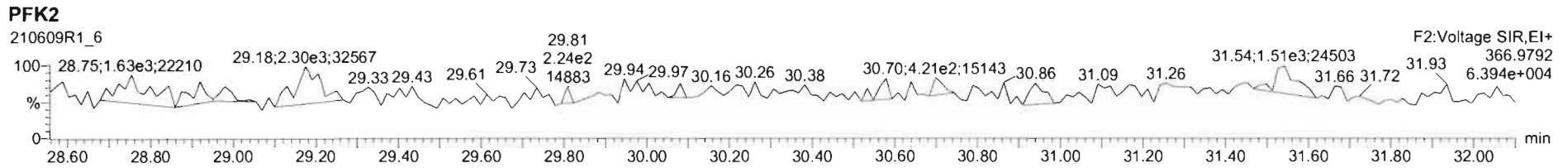
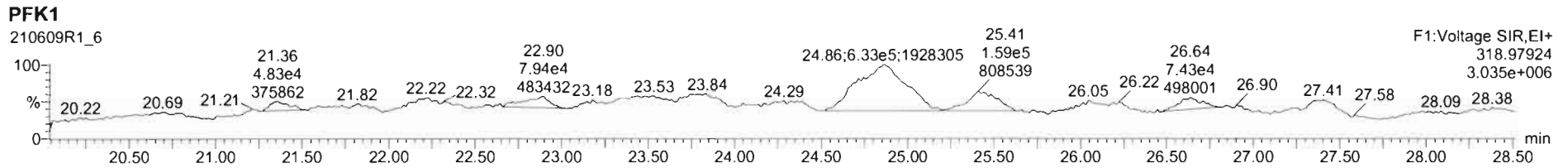
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Dataset: Untitled

Last Altered: Tuesday, June 15, 2021 13:41:45 Pacific Daylight Time
Printed: Tuesday, June 15, 2021 13:42:14 Pacific Daylight Time

Name: 210609R1_6, Date: 09-Jun-2021, Time: 14:39:21, ID: 2105042-13 USMPDI-035SC-A-04-05-210504 18.83, Description: USMPDI-035SC-A-04-05-210504



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST210601R1-1

Reviewed By: DF 06/02/21
Initials & Date

End Calibration ID: ST210601R2-1

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<u>FIN</u>	<u>FIN</u>
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	Y	N
- Bottle position verified?		<u>FIN</u>

Mass resolution \geq

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

NA

Comments:

(A) some masses under 10k HW 06/02/21

Dataset: U:\VG12.PRO\Results\210601R1\210601R1_1.qld

Last Altered: Tuesday, June 01, 2021 10:22:03 Pacific Daylight Time

Printed: Tuesday, June 01, 2021 12:46:40 Pacific Daylight Time

HW 06/01/21
JF 06/01/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210601R1_1, Date: 01-Jun-2021, Time: 09:36:58, ID: ST210601R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.55e5	1.56e6	0.77	NO	0.929	26.70	26.70	NO	1.001	1.001	10.712	107	NO
2	2 1,2,3,7,8-PeCDD	5.46e5	1.20e6	0.62	NO	0.826	31.12	31.10	NO	1.001	1.000	55.032	110	NO
3	3 1,2,3,4,7,8-HxCDD	4.91e5	9.24e5	1.25	NO	0.972	34.46	34.46	NO	1.001	1.001	54.580	109	NO
4	4 1,2,3,6,7,8-HxCDD	4.71e5	1.01e6	1.26	NO	0.877	34.58	34.58	NO	1.001	1.001	53.112	106	NO
5	5 1,2,3,7,8,9-HxCDD	5.36e5	1.12e6	1.25	NO	0.874	34.86	34.86	NO	1.000	1.000	54.932	110	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.22e5	9.03e5	1.02	NO	0.899	38.25	38.25	NO	1.000	1.000	52.032	104	NO
7	7 OCDD	7.10e5	1.54e6	0.88	NO	0.852	41.29	41.31	NO	1.000	1.000	107.92	108	NO
8	8 2,3,7,8-TCDF	1.73e5	2.27e6	0.75	NO	0.747	26.06	26.08	NO	1.000	1.001	10.197	102	NO
9	9 1,2,3,7,8-PeCDF	8.24e5	1.71e6	1.56	NO	0.877	29.92	29.93	NO	1.000	1.000	54.979	110	NO
10	10 2,3,4,7,8-PeCDF	8.80e5	1.71e6	1.56	NO	0.962	30.95	30.94	NO	1.001	1.000	53.382	107	NO
11	11 1,2,3,4,7,8-HxCDF	6.12e5	1.28e6	1.24	NO	0.920	33.51	33.51	NO	1.000	1.000	51.801	104	NO
12	12 1,2,3,6,7,8-HxCDF	6.51e5	1.35e6	1.23	NO	0.936	33.66	33.66	NO	1.001	1.001	51.698	103	NO
13	13 2,3,4,6,7,8-HxCDF	5.85e5	1.15e6	1.22	NO	0.973	34.35	34.35	NO	1.001	1.001	52.155	104	NO
14	14 1,2,3,7,8,9-HxCDF	5.29e5	1.09e6	1.22	NO	0.940	35.41	35.42	NO	1.000	1.001	51.615	103	NO
15	15 1,2,3,4,6,7,8-HpCDF	5.28e5	9.82e5	1.01	NO	1.05	37.05	37.05	NO	1.000	1.000	51.331	103	NO
16	16 1,2,3,4,7,8,9-HpCDF	4.63e5	8.69e5	1.01	NO	1.05	38.90	38.89	NO	1.000	1.000	50.920	102	NO
17	17 OCDF	8.26e5	2.06e6	0.89	NO	0.771	41.62	41.63	NO	1.000	1.000	104.06	104	NO
18	18 13C-2,3,7,8-TCDD	1.56e6	1.35e6	0.79	NO	1.10	26.67	26.67	NO	1.027	1.027	104.77	105	NO
19	19 13C-1,2,3,7,8-PeCDD	1.20e6	1.35e6	0.63	NO	0.864	31.05	31.09	NO	1.196	1.197	103.43	103	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.24e5	1.29e6	1.29	NO	0.746	34.43	34.44	NO	1.014	1.014	95.754	95.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.01e6	1.29e6	1.28	NO	0.847	34.55	34.56	NO	1.017	1.018	92.308	92.3	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.12e6	1.29e6	1.25	NO	0.868	34.85	34.85	NO	1.026	1.026	99.331	99.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.03e5	1.29e6	1.03	NO	0.664	38.19	38.24	NO	1.125	1.126	105.08	105	NO
24	24 13C-OCDD	1.54e6	1.29e6	0.89	NO	0.561	41.14	41.28	NO	1.211	1.216	212.68	106	NO
25	25 13C-2,3,7,8-TCDF	2.27e6	2.08e6	0.78	NO	1.09	26.08	26.06	NO	1.003	1.003	99.675	99.7	NO
26	26 13C-1,2,3,7,8-PeCDF	1.71e6	2.08e6	1.61	NO	0.809	29.78	29.91	NO	1.147	1.152	101.23	101	NO
27	27 13C-2,3,4,7,8-PeCDF	1.71e6	2.08e6	1.61	NO	0.803	30.74	30.92	NO	1.184	1.191	102.34	102	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.28e6	1.29e6	0.51	NO	1.01	33.51	33.50	NO	0.987	0.986	98.116	98.1	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.35e6	1.29e6	0.51	NO	1.07	33.63	33.64	NO	0.990	0.990	96.879	96.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.15e6	1.29e6	0.51	NO	0.910	34.32	34.33	NO	1.011	1.011	98.053	98.1	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.09e6	1.29e6	0.51	NO	0.828	35.40	35.40	NO	1.042	1.042	101.80	102	NO

Dataset: U:\VG12.PRO\Results\210601R1\210601R1_1.qld

Last Altered: Tuesday, June 01, 2021 10:22:03 Pacific Daylight Time

Printed: Tuesday, June 01, 2021 12:46:40 Pacific Daylight Time

Name: 210601R1_1, Date: 01-Jun-2021, Time: 09:36:58, ID: ST210601R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT-Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.82e5	1.29e6	0.43	NO	0.661	37.01	37.04	NO	1.090	1.090	114.87	115	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.69e5	1.29e6	0.43	NO	0.566	38.77	38.88	NO	1.141	1.145	118.77	119	NO
34	34 13C-OCDF	2.06e6	1.29e6	0.89	NO	0.663	41.53	41.61	NO	1.223	1.225	240.14	120	NO
35	35 37Cl-2,3,7,8-TCDD	2.95e5	1.35e6			2.07	26.87	26.70	NO	1.035	1.028	10.589	106	NO
36	36 13C-1,2,3,4-TCDD	1.35e8	1.35e6	0.79	NO	1.00	26.07	25.97	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.08e8	2.08e6	0.80	NO	1.00	24.76	24.83	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.29e8	1.29e6	0.51	NO	1.00	34.04	33.96	NO	1.000	1.000	100.00	100	YES

ok

Dataset: Untitled

Last Altered: Wednesday, June 02, 2021 09:05:29 Pacific Daylight Time

Printed: Wednesday, June 02, 2021 09:05:47 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

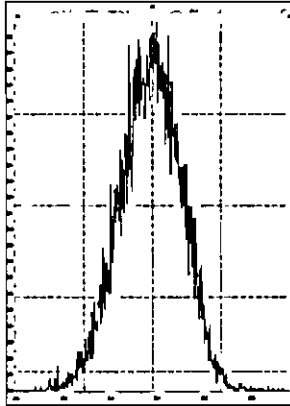
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	210601R1_1	ST210601R1_1 1613 CS3 21C0105	01-Jun-21	09:36:58
2	210601R1_2	B1E0242-BS1 OPR 1	01-Jun-21	10:23:17
3	210601R1_3	B1E0224-BS1 OPR 10	01-Jun-21	11:11:26
4	210601R1_4	SOLVENT BLANK	01-Jun-21	11:55:43
5	210601R1_5	B1E0242-BLK1 Method Blank 1	01-Jun-21	12:39:57
6	210601R1_6	B1E0242-BLK1 Method Blank 1	01-Jun-21	13:26:43
7	210601R1_7	B1E0224-BLK1 Method Blank 10	01-Jun-21	14:12:11
8	210601R1_8	B1E0224-BLK1 Method Blank 10	01-Jun-21	14:58:53
9	210601R1_9	2105037-01 SC-FB-2105030940 1.00168	01-Jun-21	15:48:16
10	210601R1_10	2105037-02 SC-RB-2105030901 1.02432	01-Jun-21	16:32:58
11	210601R1_11	2105248-01 2115233-02 0.97797	01-Jun-21	17:17:15
12	210601R1_12	2105286-01 2116960-02 0.99904	01-Jun-21	18:01:49
13	210601R1_13	2105218-01 21040222-02-1 33.08	01-Jun-21	18:48:05
14	210601R1_14	2105224-01 Outfall 0.96887	01-Jun-21	19:30:19
15	210601R1_15	2105254-01 Breeding Ave 4 0.98636	01-Jun-21	20:14:33
18	210601R2_1	SOLVENT BLANK	01-Jun-21	21:07:46
17	210601R2_2	ST210601R2_1 1613 CS3 21C0105	01-Jun-21	21:52:03

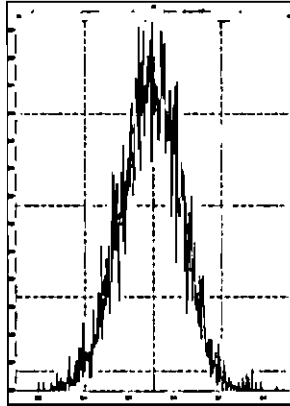
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, June 01, 2021 09:29:04 Pacific Daylight Time

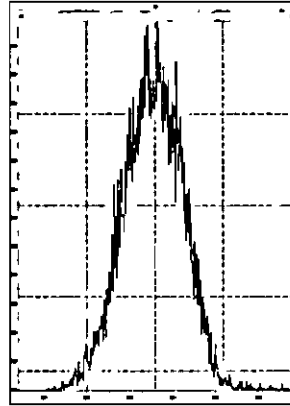
M 292.9824 R 10286



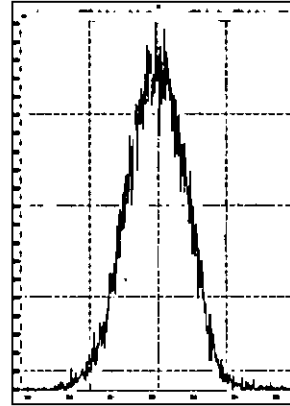
M 304.9824 R 10081



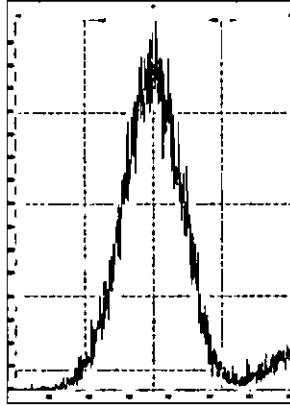
M 318.9792 R 10552



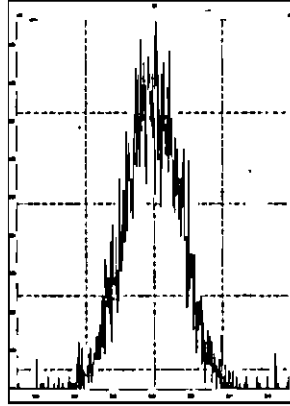
M 330.9792 R 10370



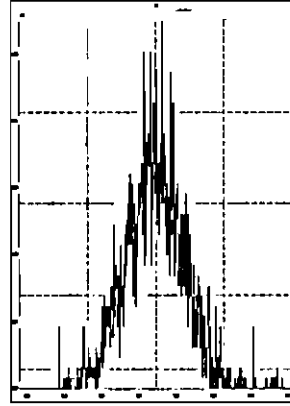
M 342.9792 R 10592



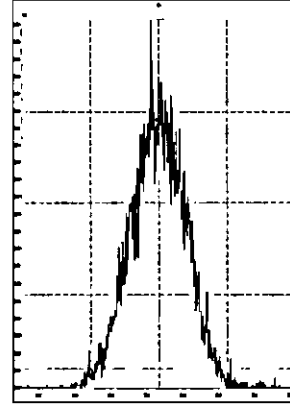
M 354.9792 R 12197



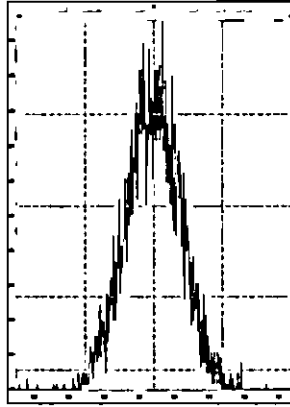
M 366.9792 R 13089



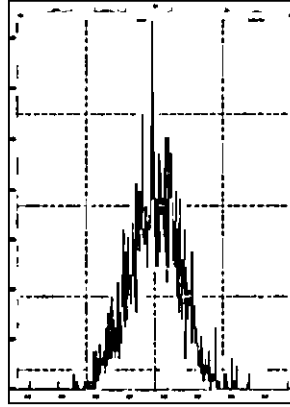
M 380.9760 R 11846



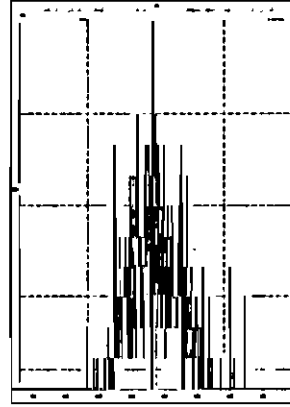
M 392.9760 R 11161



M 404.9760 R 11791



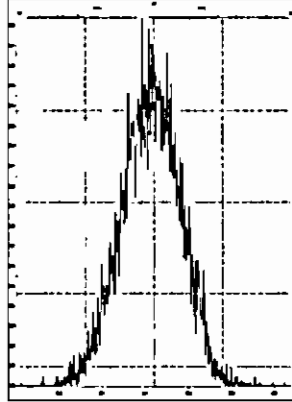
M 416.9760 R 17242



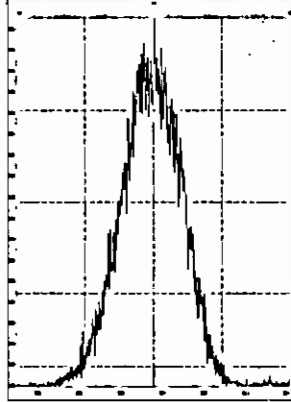
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, June 01, 2021 09:29:47 Pacific Daylight Time

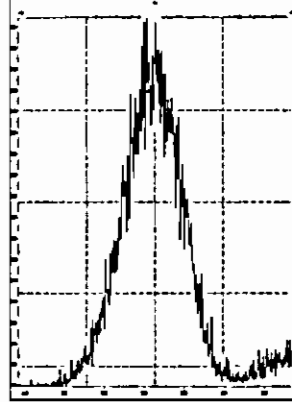
M 318.9792 R 10915



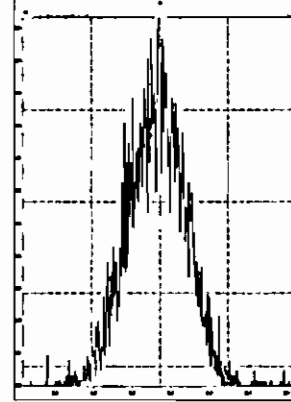
M 330.9792 R 10332



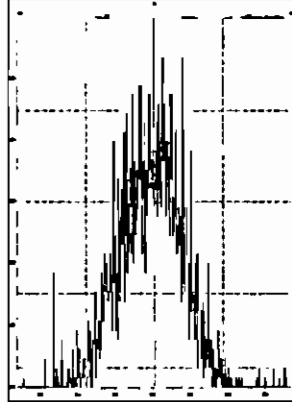
M 342.9792 R 10161



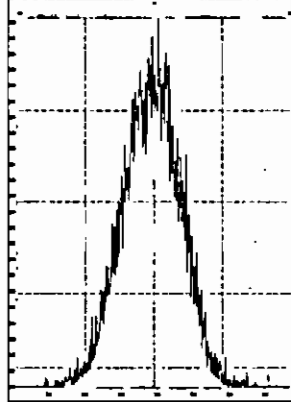
M 354.9792 R 11263



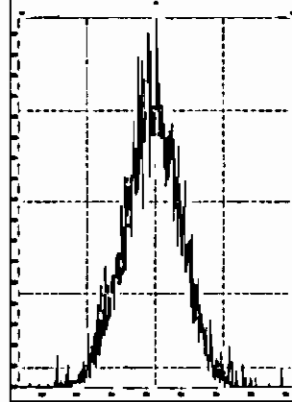
M 366.9792 R 11467



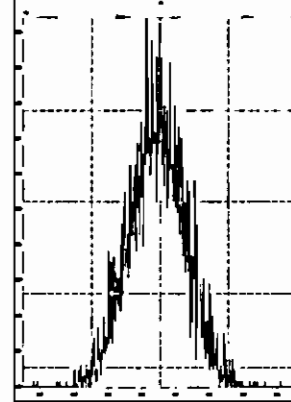
M 380.9760 R 11259



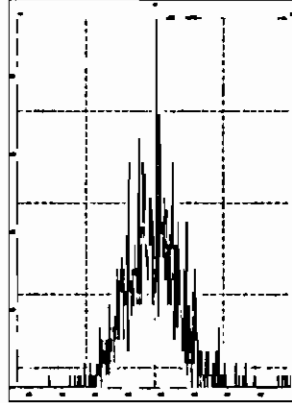
M 392.9760 R 11211



M 404.9760 R 11213



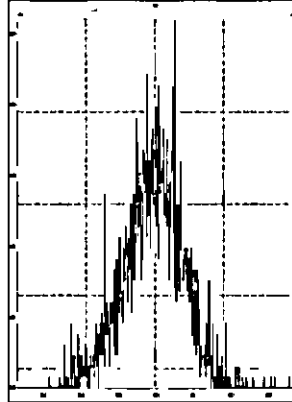
M 416.9760 R 12438



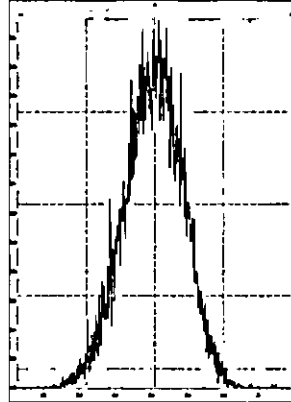
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, June 01, 2021 09:30:46 Pacific Daylight Time

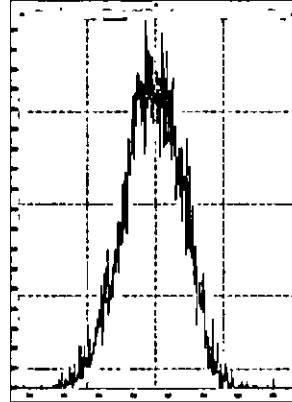
M 366.9792 R 12316



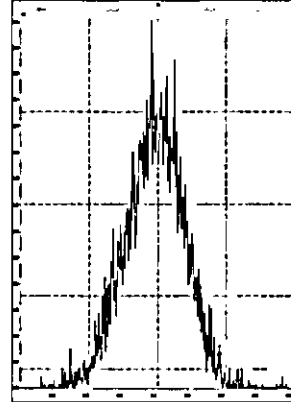
M 380.9760 R 10329



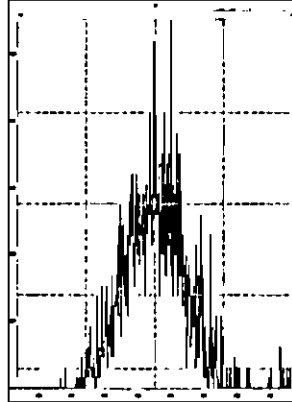
M 392.9760 R 10590



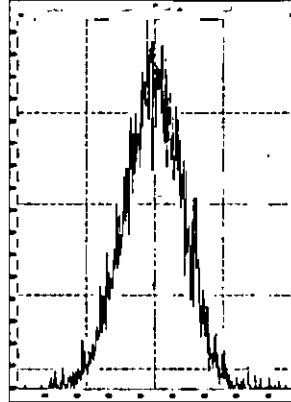
M 404.9760 R 10729



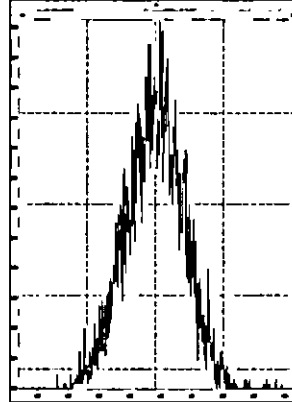
M 416.9760 R 12378



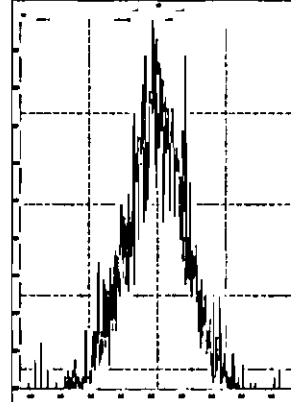
M 430.9728 R 10504



M 442.9728 R 11159



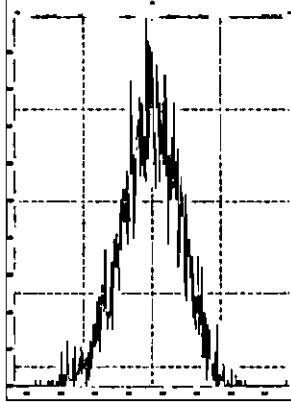
M 454.9728 R 11364



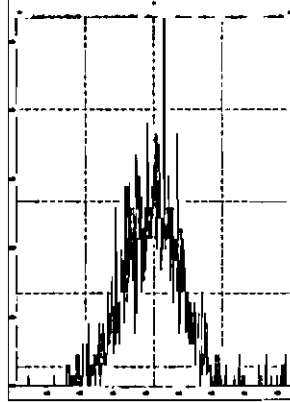
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, June 01, 2021 09:31:32 Pacific Daylight Time

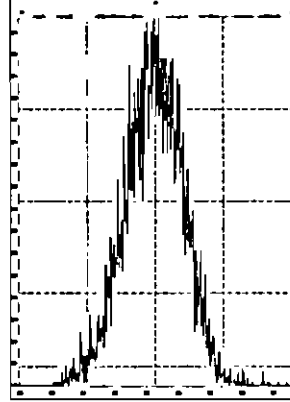
M 404.9760 R 11677



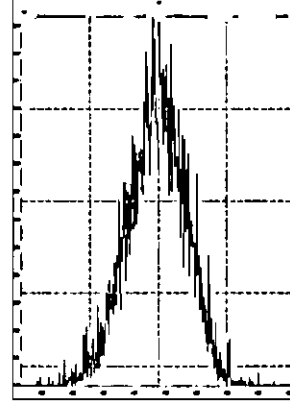
M 416.9760 R 13809



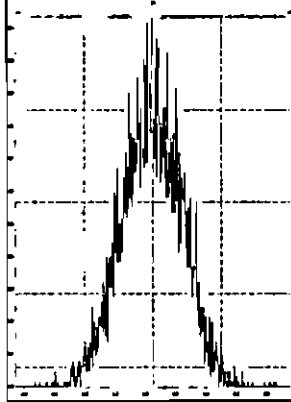
M 430.9728 R 10639



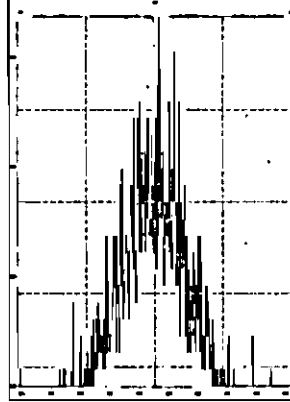
M 442.9728 R 10825



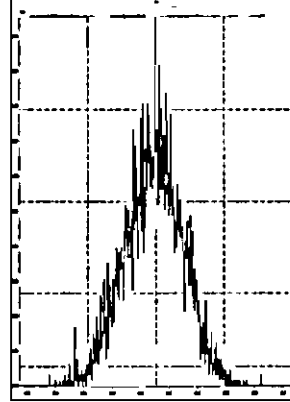
M 454.9728 R 11062



M 466.9728 R 11260



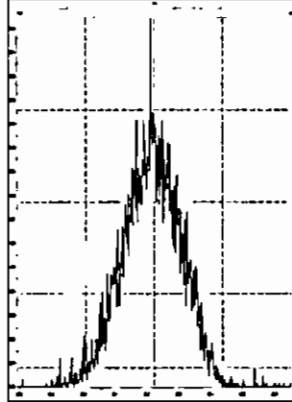
M 480.9696 R 11738



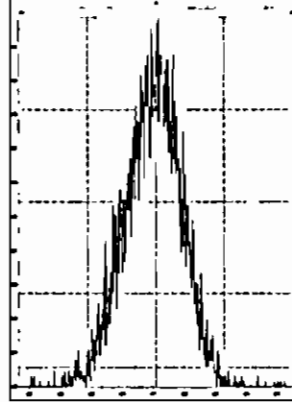
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, June 01, 2021 09:32:16 Pacific Daylight Time

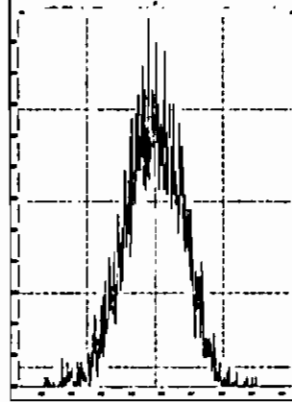
M 430.9728 R 10728



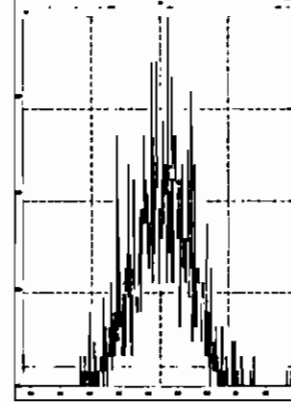
M 442.9728 R 11014



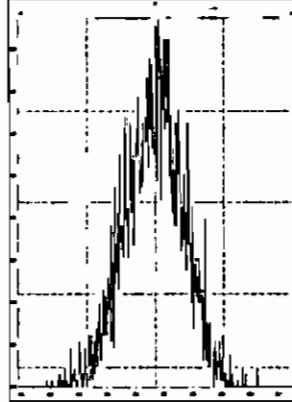
M 454.9728 R 11061



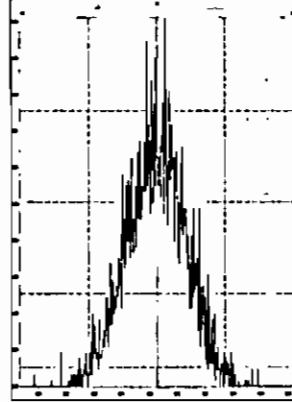
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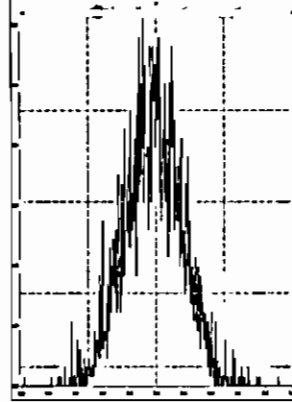
M 480.9696 R 11415



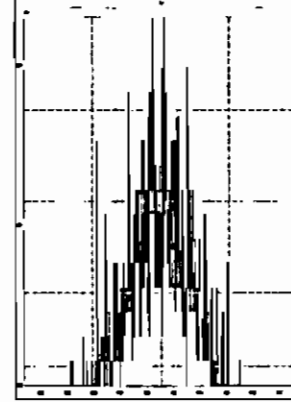
M 492.9696 R 10777



M 504.9696 R 11793



M 516.9697 R 12436



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_CPSM.qld

Last Altered: Tuesday, June 01, 2021 12:46:56 Pacific Daylight Time

Printed: Tuesday, June 01, 2021 12:47:29 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210601R1_1, Date: 01-Jun-2021, Time: 09:36:58, ID: ST210601R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1 1,3,6,8-TCDD (First)	23.27
2	2 1,2,8,9-TCDD (Last)	27.52
3	3 1,2,4,7,9-PeCDD (First)	28.93
4	4 1,2,3,8,9-PeCDD (Last)	31.45
5	5 1,2,4,6,7,9-HxCDD (First)	32.74
6	8 1,2,3,7,8,9-HxCDD (Last)	34.86
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.38
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.25
9	9 1,3,8,8-TCDF (First)	21.15
10	10 1,2,8,9-TCDF (Last)	27.83
11	11 1,3,4,6,8-PeCDF (First)	27.39
12	12 1,2,3,8,9-PeCDF (Last)	31.83
13	13 1,2,3,4,8,8-HxCDF (First)	32.19
14	14 1,2,3,7,8,9-HxCDF (Last)	35.42
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.05
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.89

Dataset: U:\VG12.PRO\Results\210601R1\210601R1_CPSM.qld

Last Altered: Tuesday, June 01, 2021 12:46:56 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 12:47:29 Pacific Daylight Time

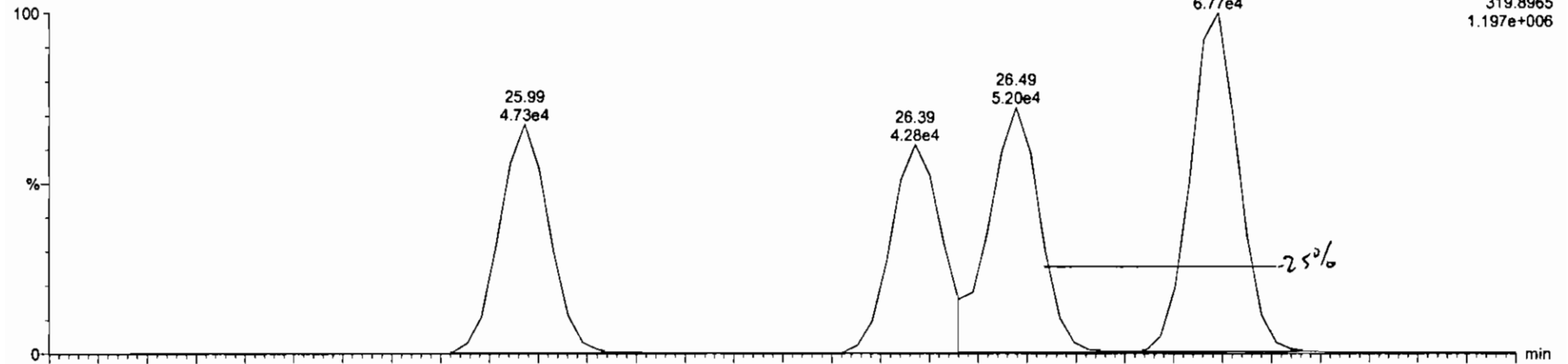
FIN 06/01/21

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

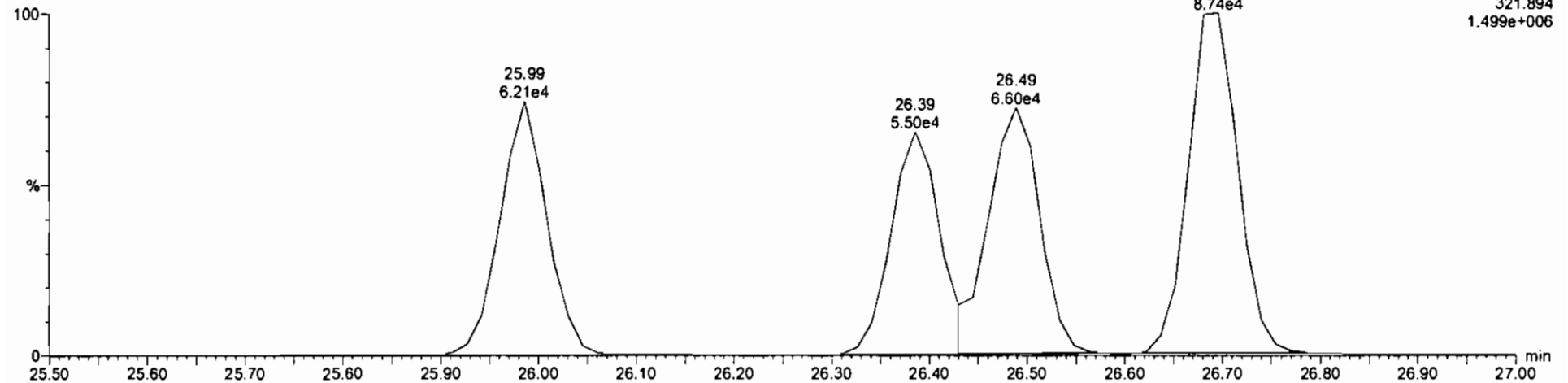
Name: 210601R1_1, Date: 01-Jun-2021, Time: 09:36:58, ID: ST210601R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDD (First)

210601R1_1



210601R1_1



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_CPSM.qld

Last Altered: Tuesday, June 01, 2021 12:46:56 Pacific Daylight Time
Printed: Tuesday, June 01, 2021 12:47:29 Pacific Daylight Time

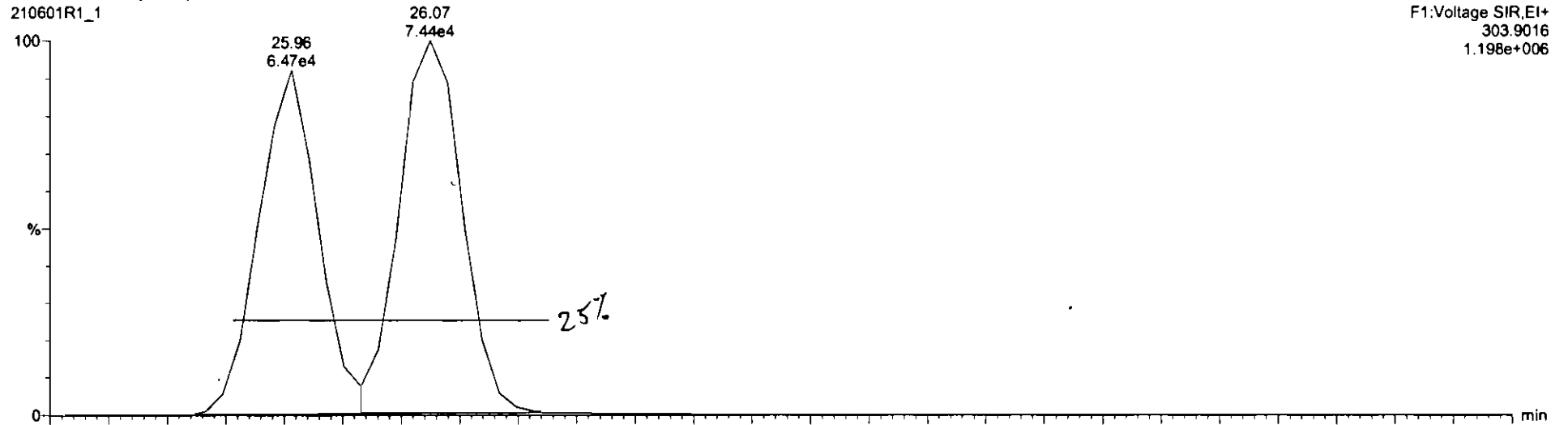
FIN 06/01/21

Name: 210601R1_1, Date: 01-Jun-2021, Time: 09:36:58, ID: ST210601R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDF (First)

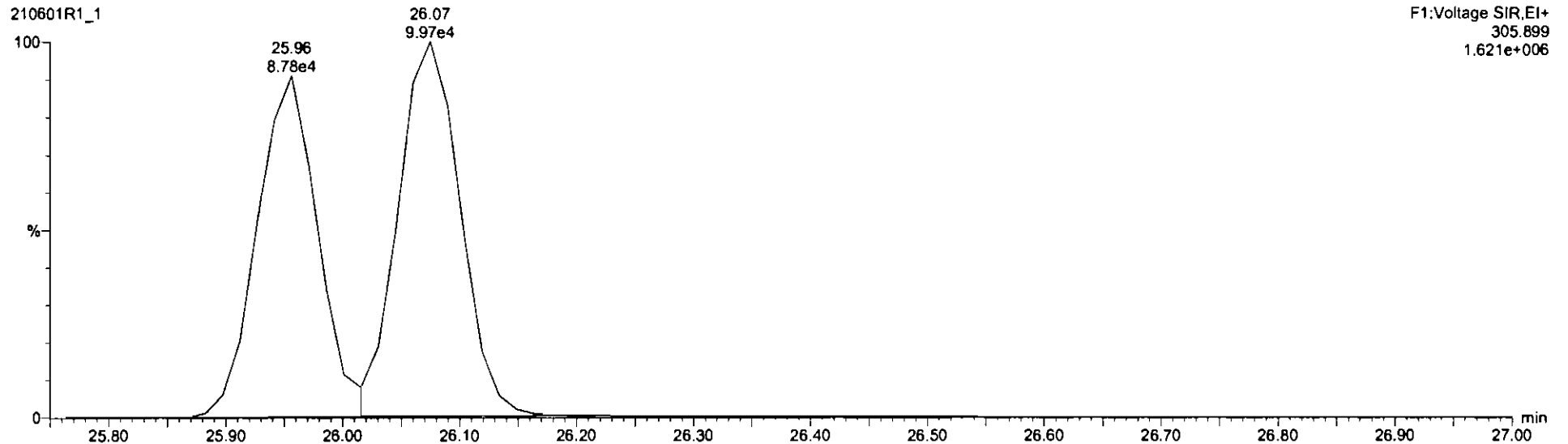
210601R1_1

F1:Voltage SIR,EI+
303.9016
1.198e+006



210601R1_1

F1:Voltage SIR,EI+
305.899
1.621e+006



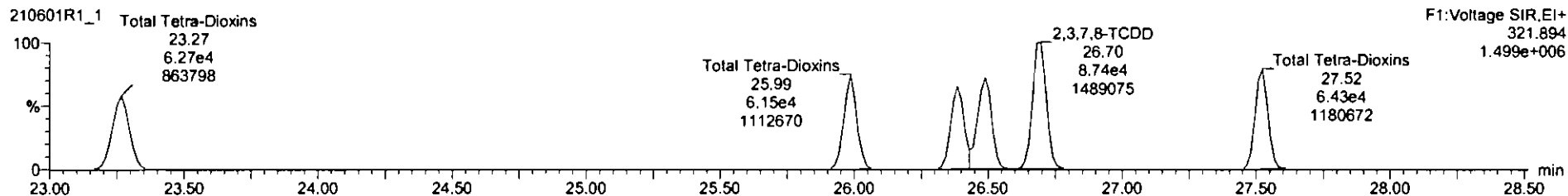
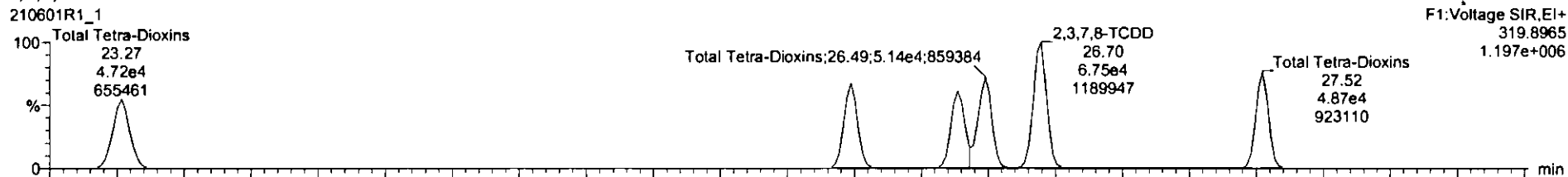
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Printed: Tuesday, June 01, 2021 12:39:22 Pacific Daylight Time

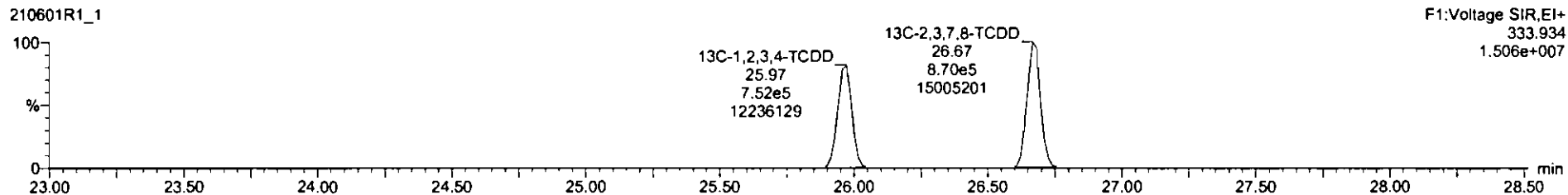
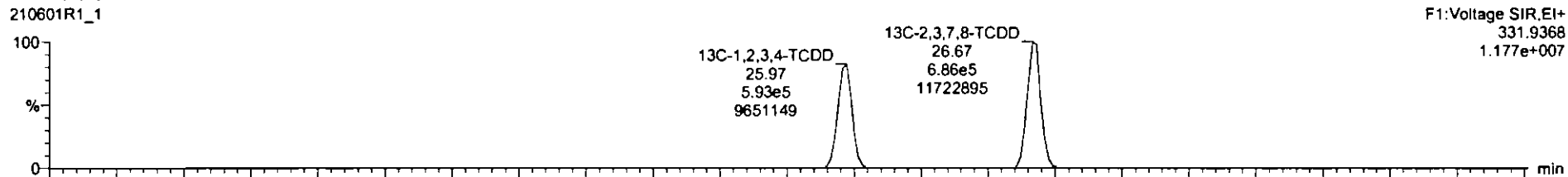
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Name: 210601R1_1, Date: 01-Jun-2021, Time: 09:36:58, ID: ST210601R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD



13C-2,3,7,8-TCDD



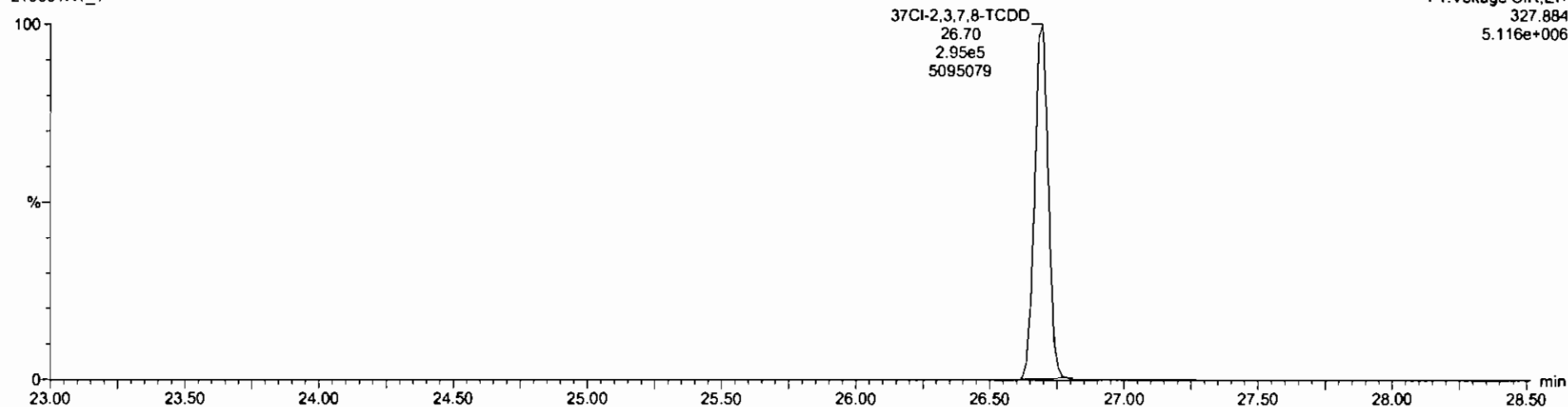
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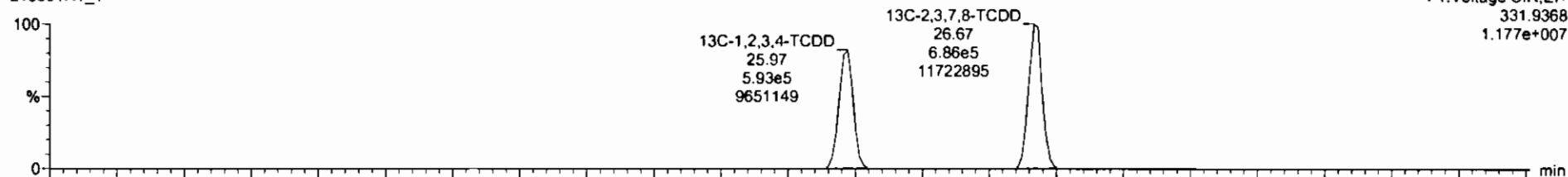
37Cl-2,3,7,8-TCDD

210601R1_1

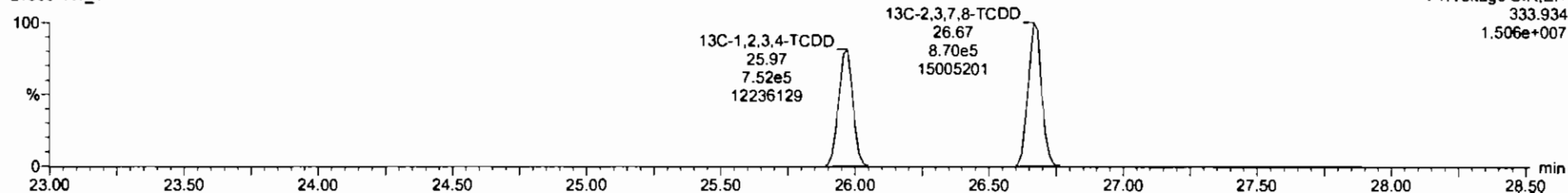


13C-1,2,3,4-TCDD

210601R1_1



210601R1_1



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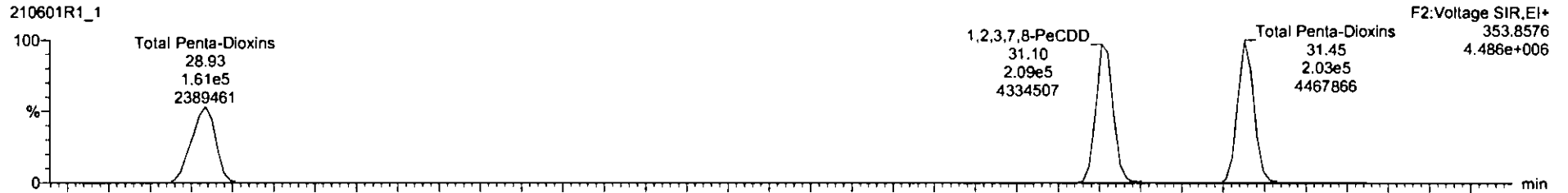
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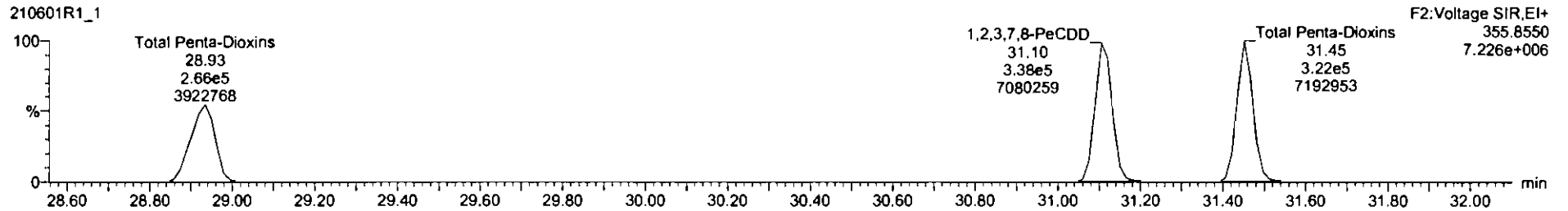
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1,2,3,7,8-PeCDD

210601R1_1

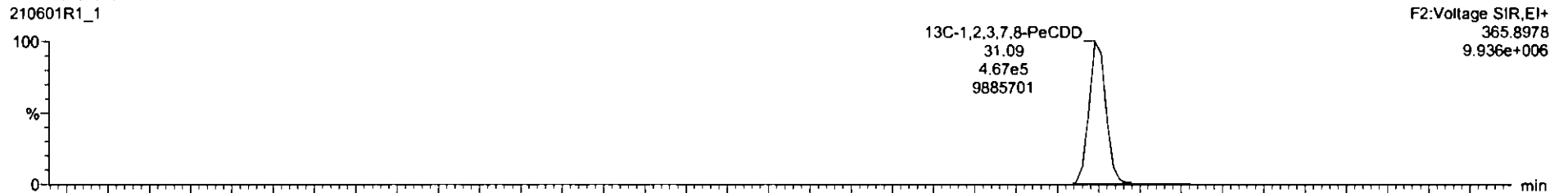


210601R1_1

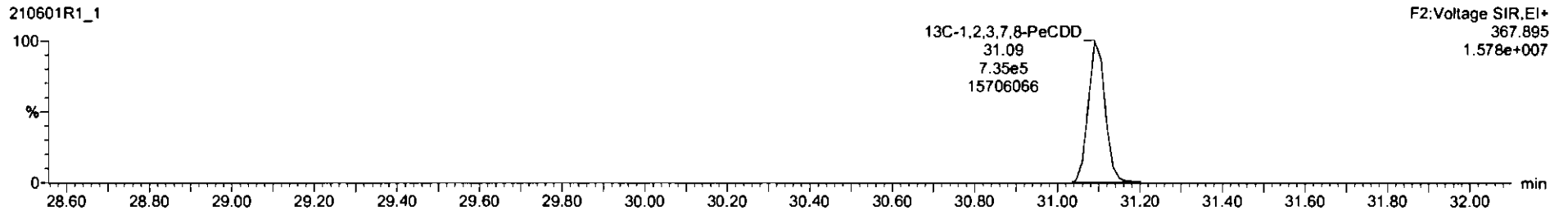


13C-1,2,3,7,8-PeCDD

210601R1_1



210601R1_1

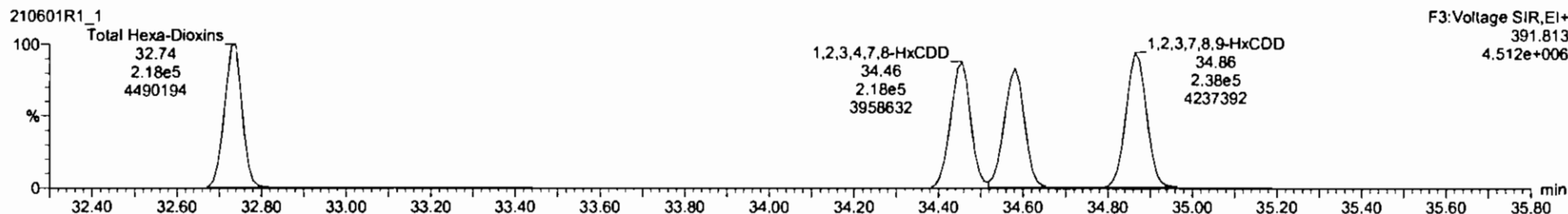
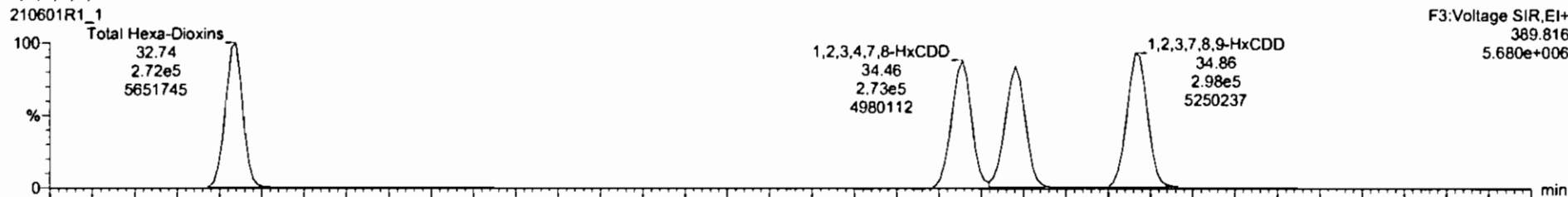


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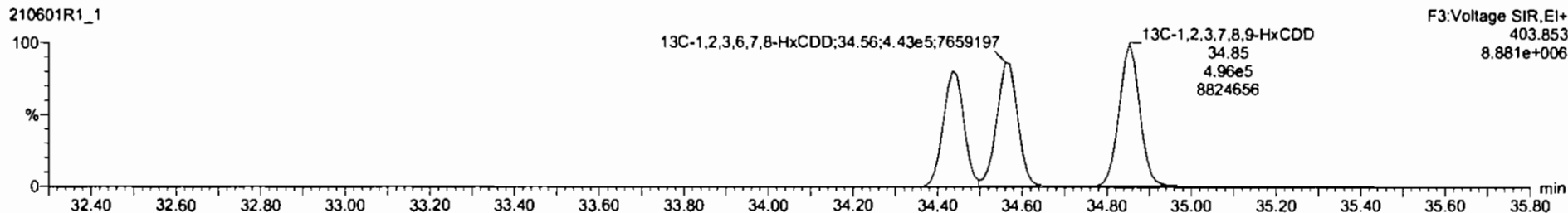
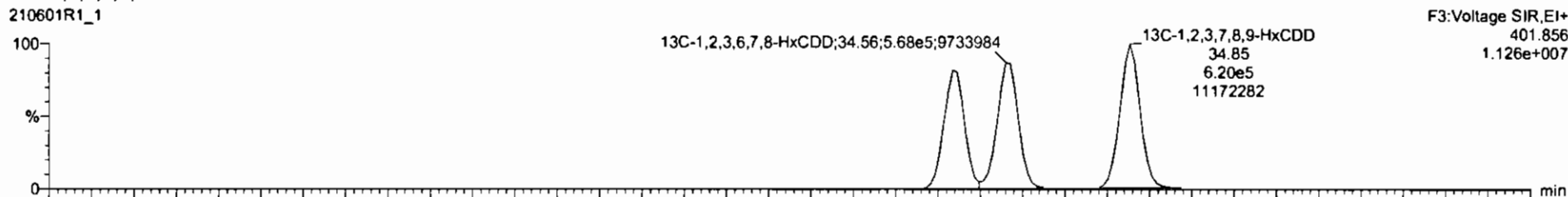
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1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_1.qld

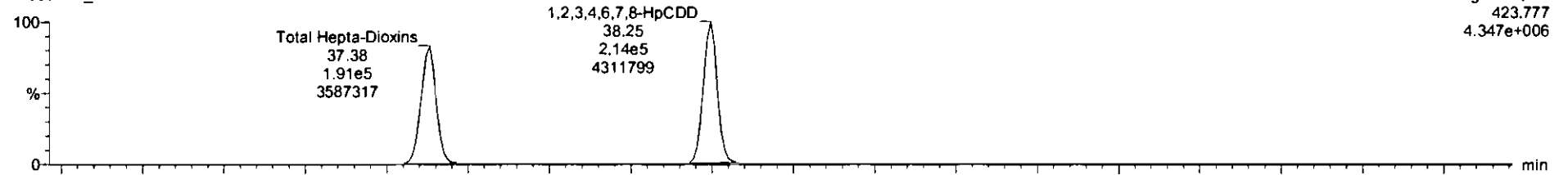
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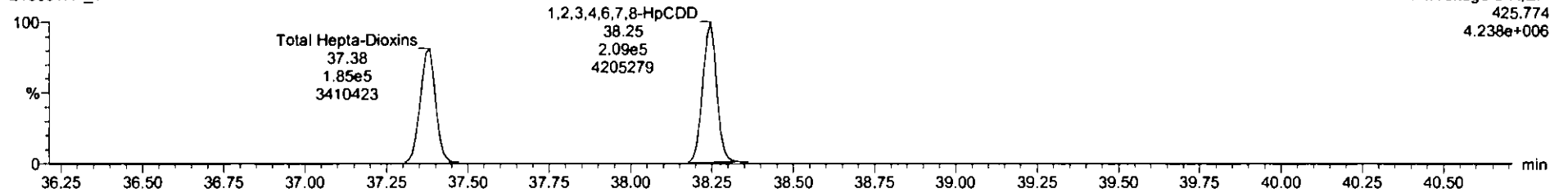
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1,2,3,4,6,7,8-HpCDD

210601R1_1

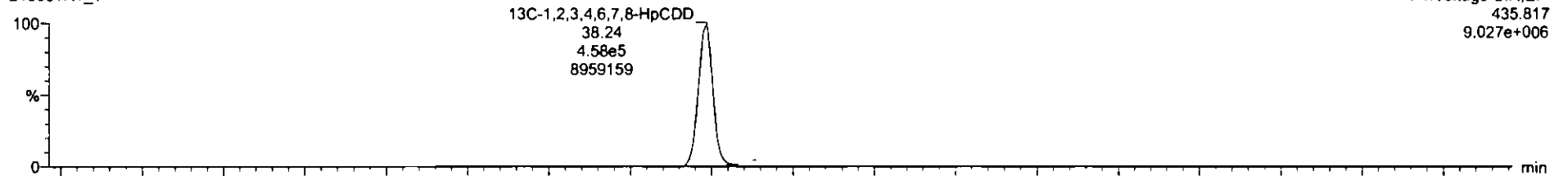


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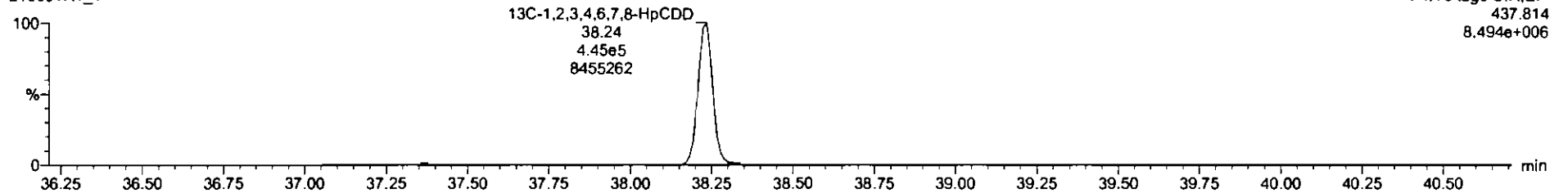


13C-1,2,3,4,6,7,8-HpCDD

210601R1_1



210601R1_1



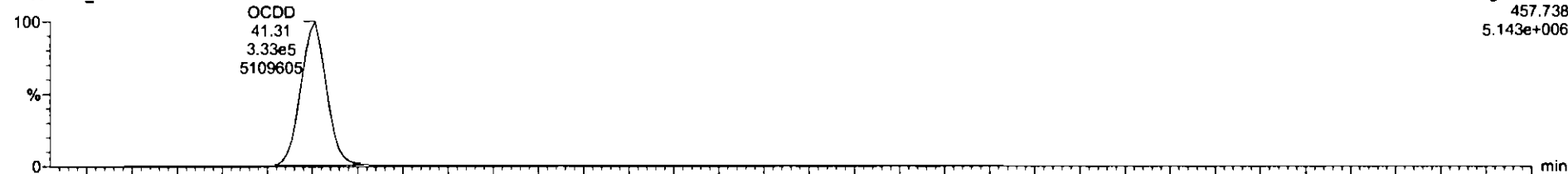
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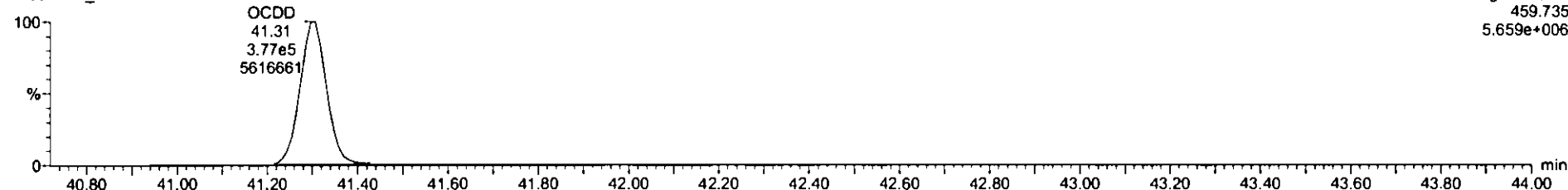
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OCDD

210601R1_1

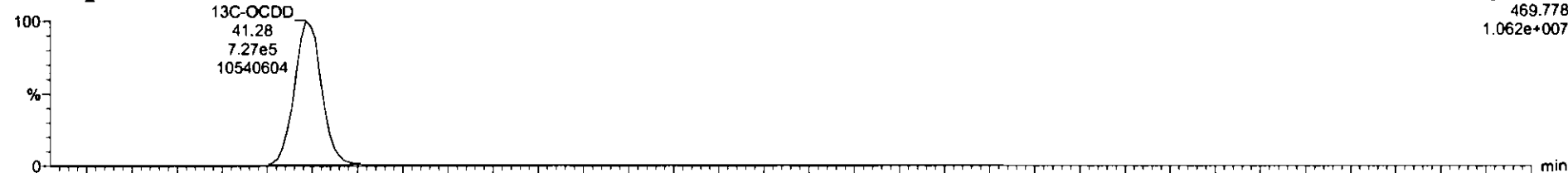


210601R1_1

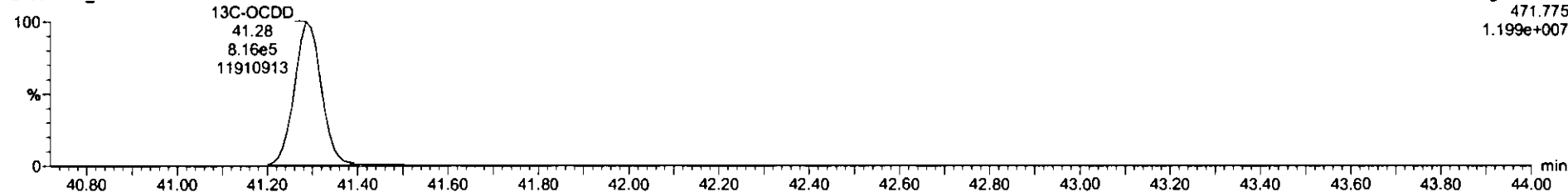


13C-OCDD

210601R1_1



210601R1_1

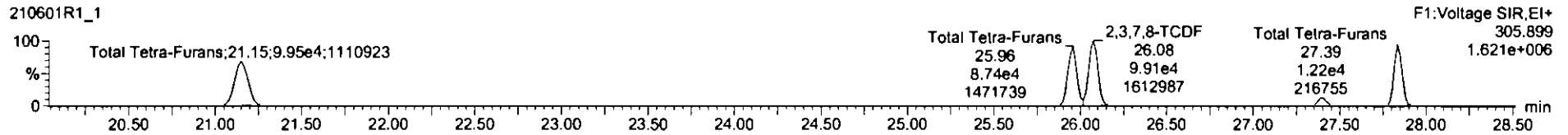
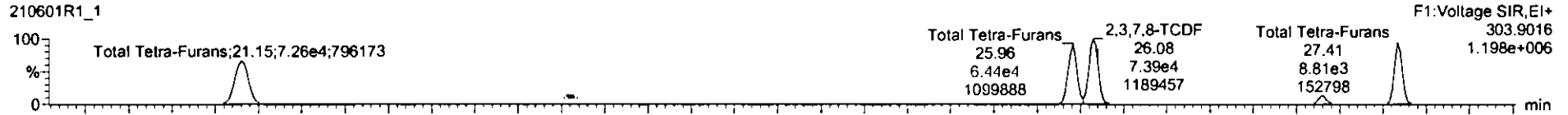


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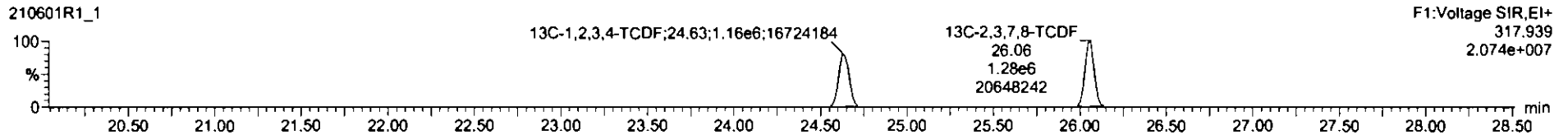
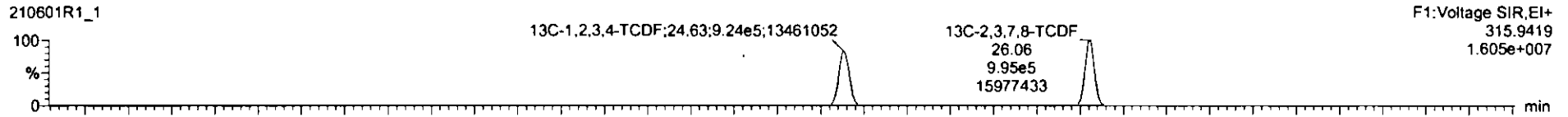
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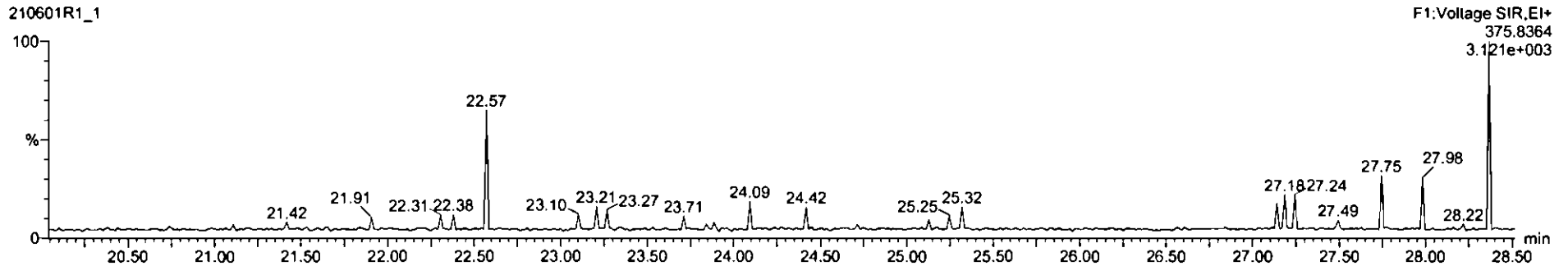
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



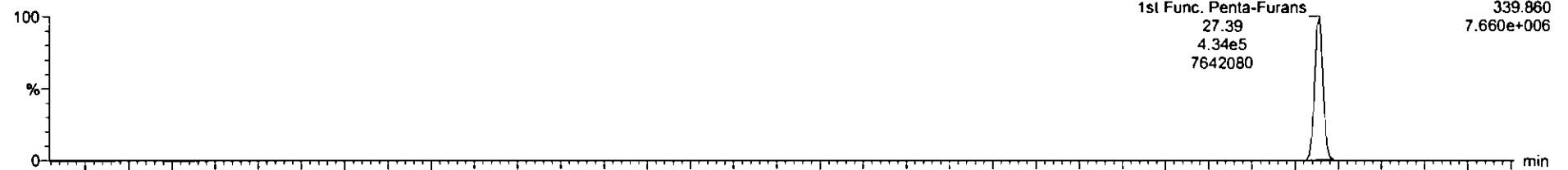
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Printed: Tuesday, June 01, 2021 12:39:22 Pacific Daylight Time

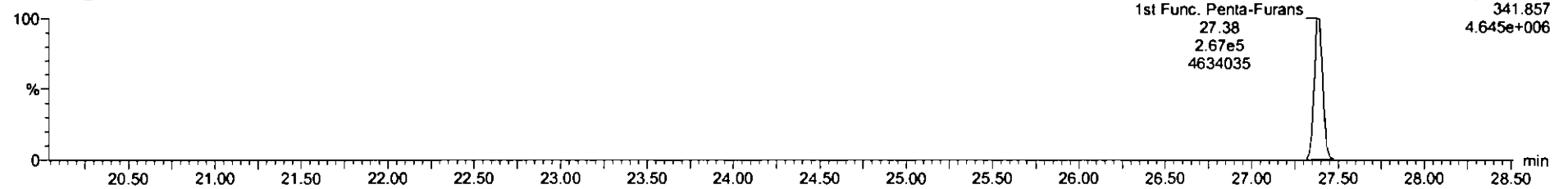
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1st Func. Penta-Furans

210601R1_1

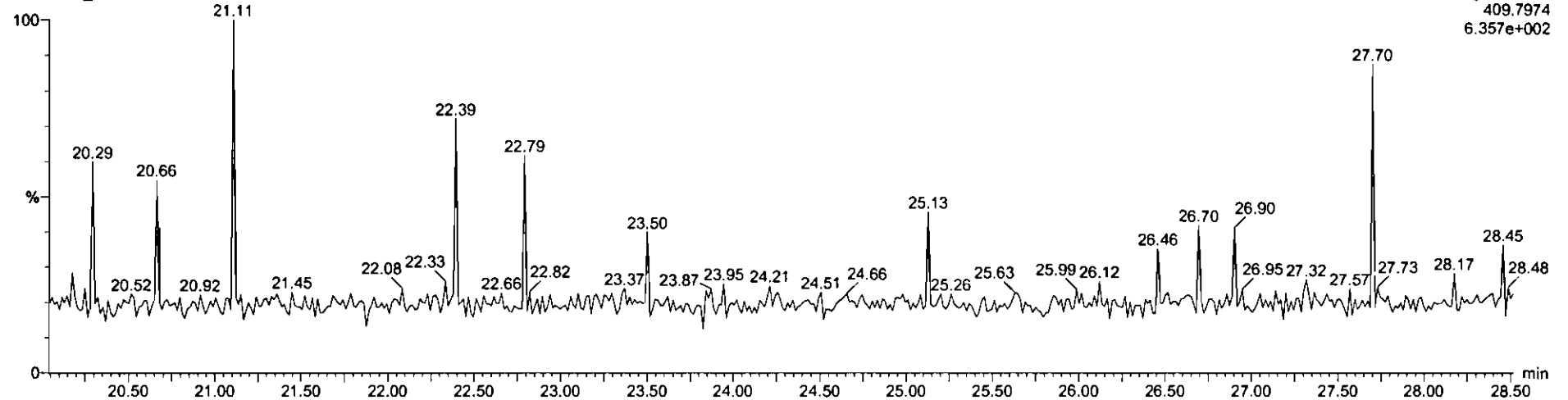


210601R1_1



DPE6

210601R1_1

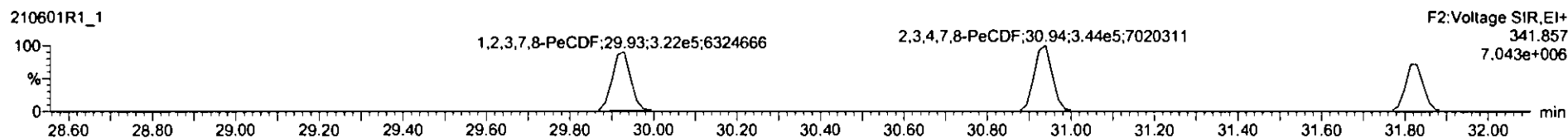
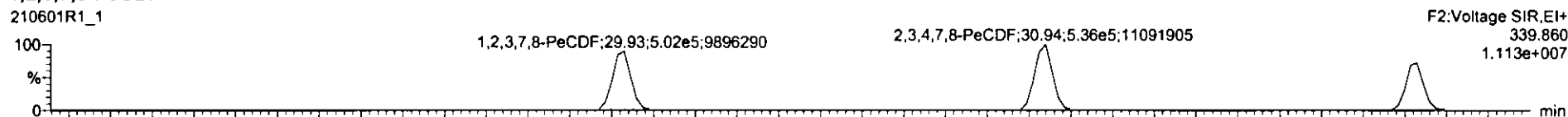


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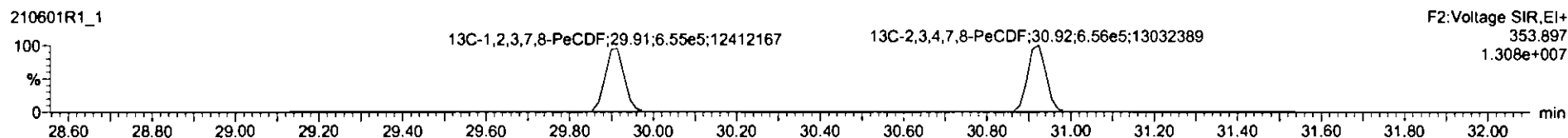
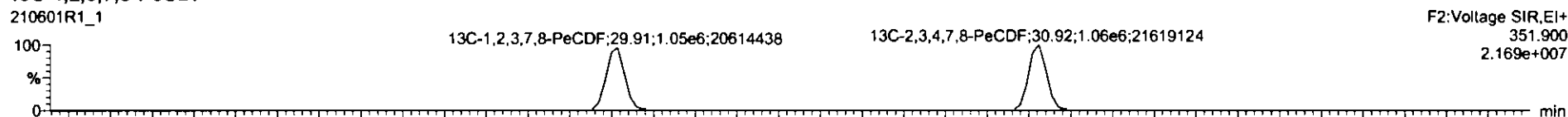
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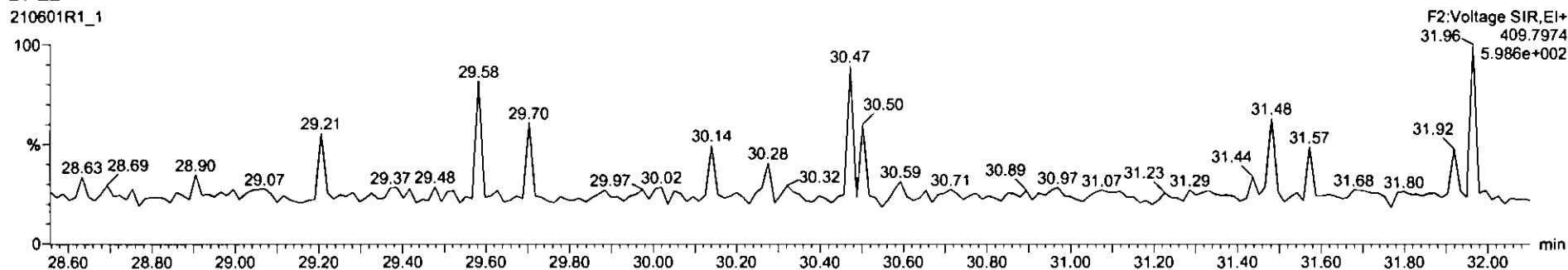
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2

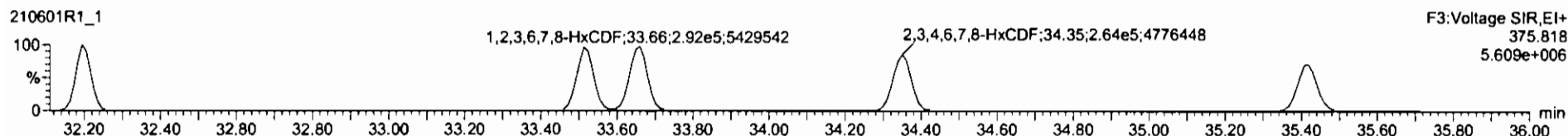
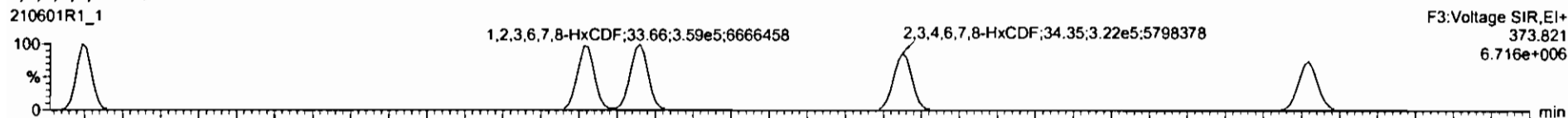


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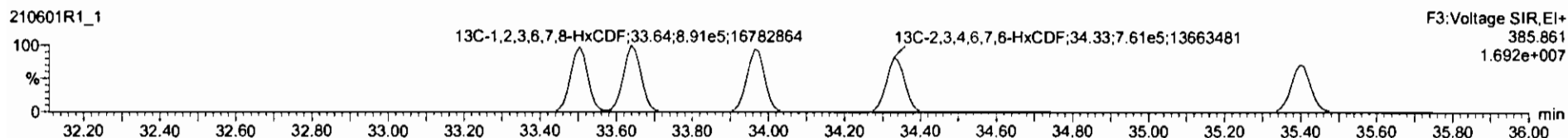
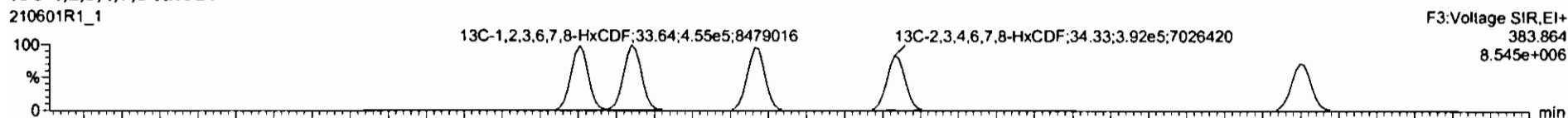
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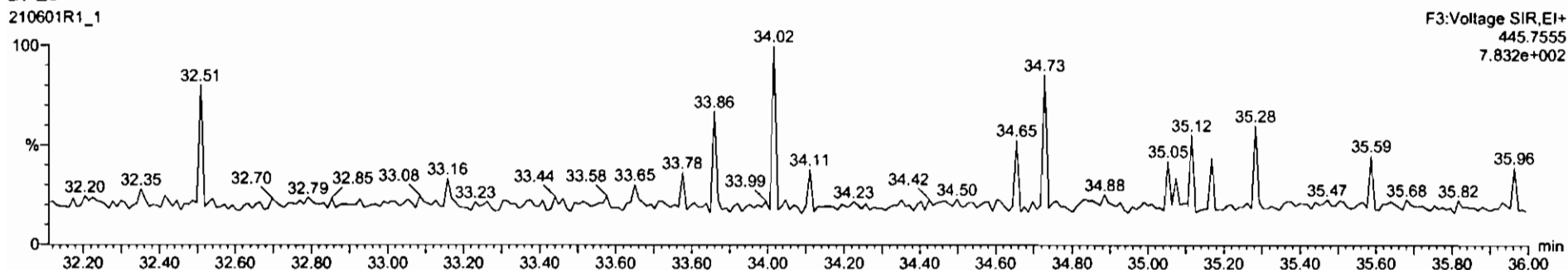
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3

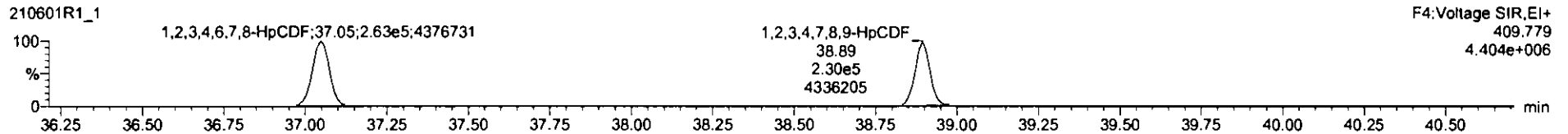
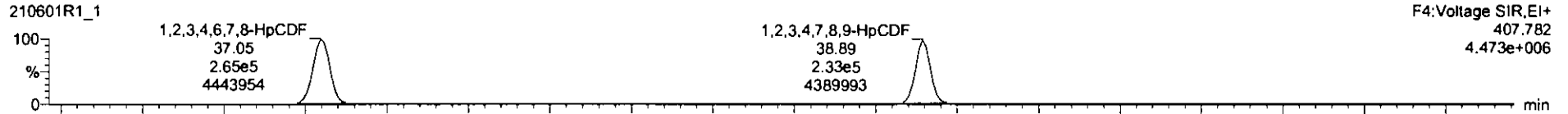


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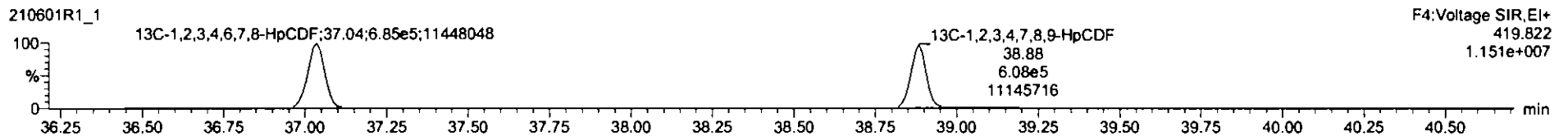
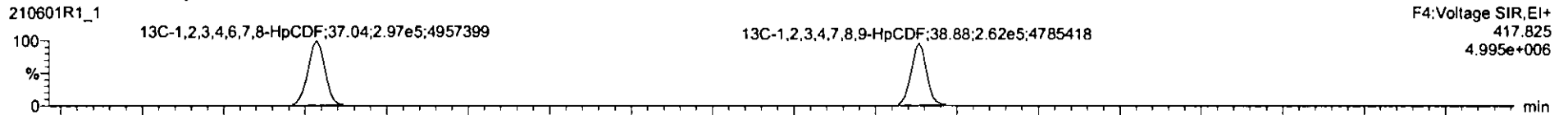
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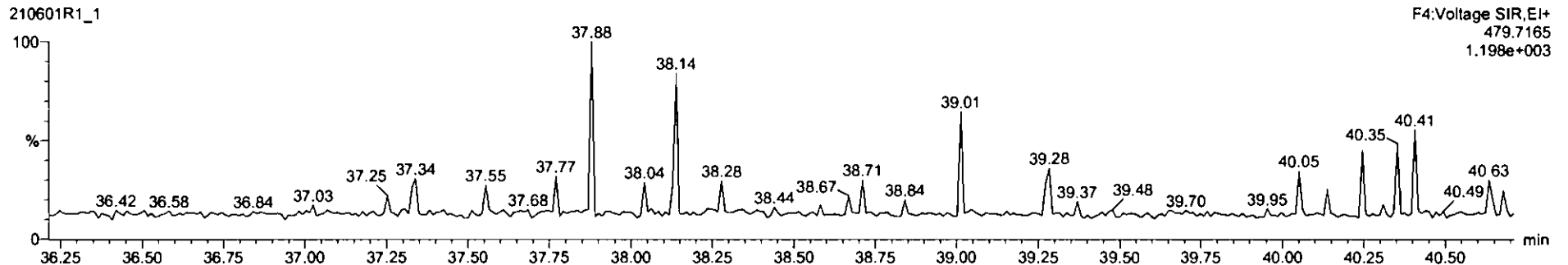
1,2,3,4,6,7,8-HpCDF



13C-1,2,3,4,6,7,8-HpCDF



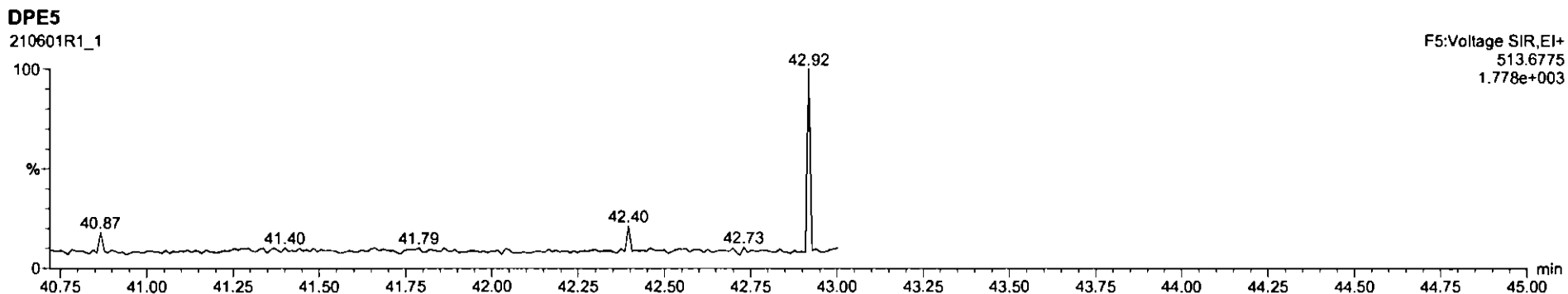
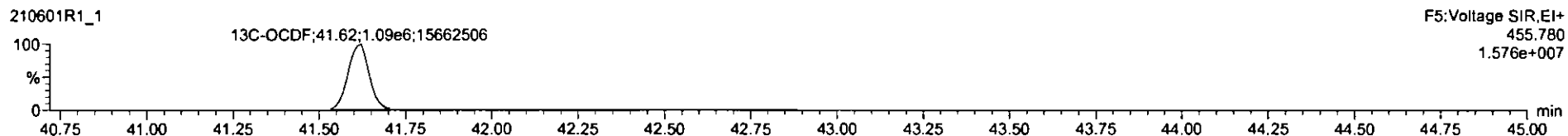
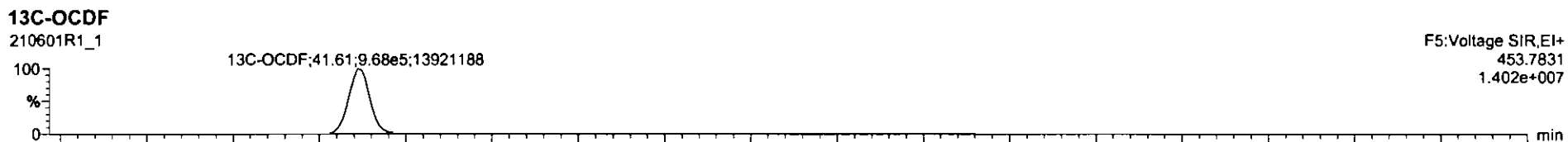
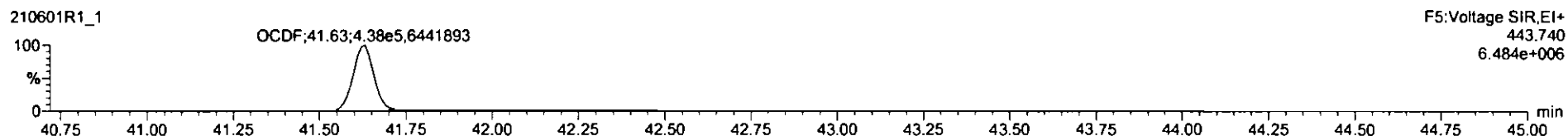
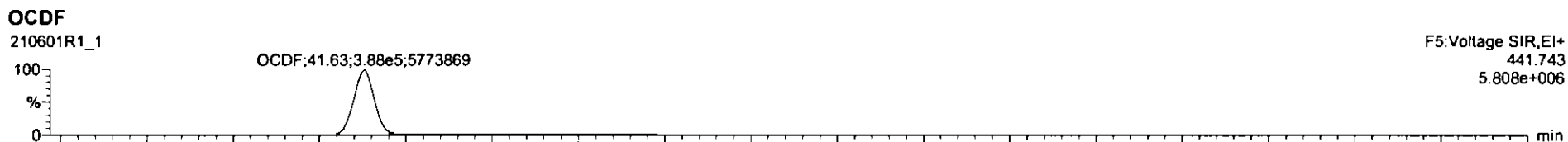
DPE4



Dataset: U:\VG12.PRO\Results\210601R1\210601R1_1.qld

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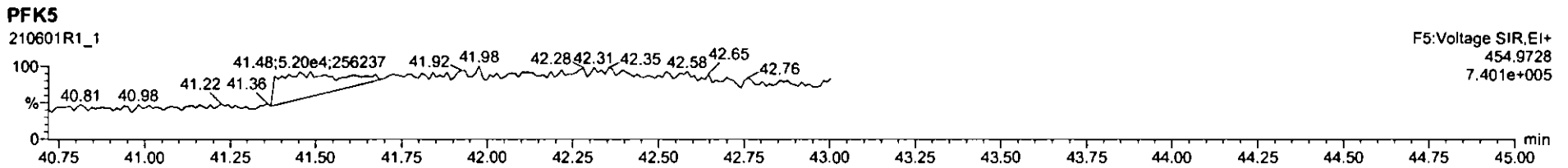
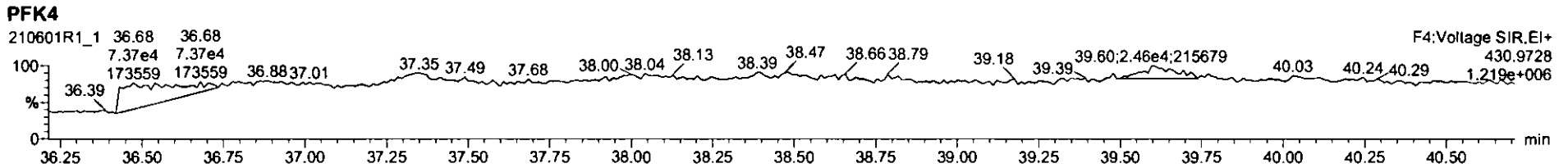
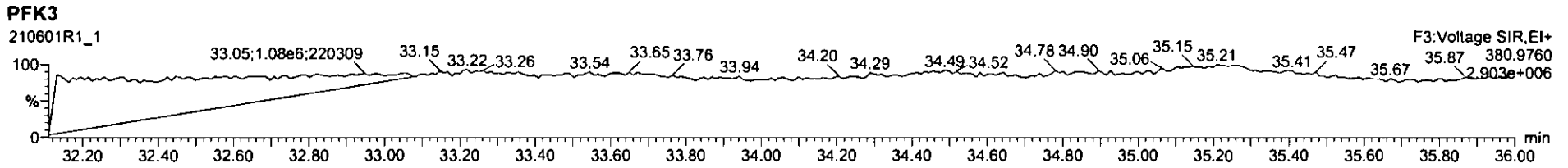
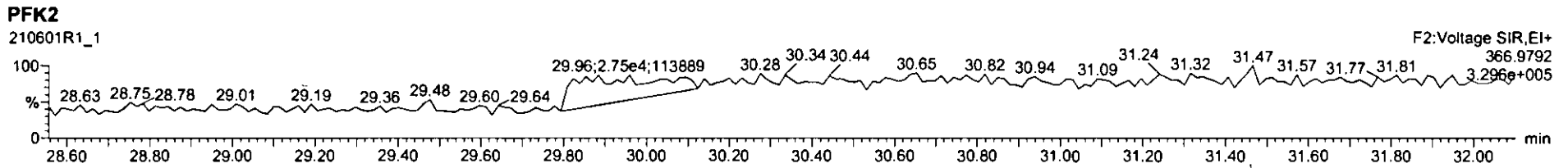
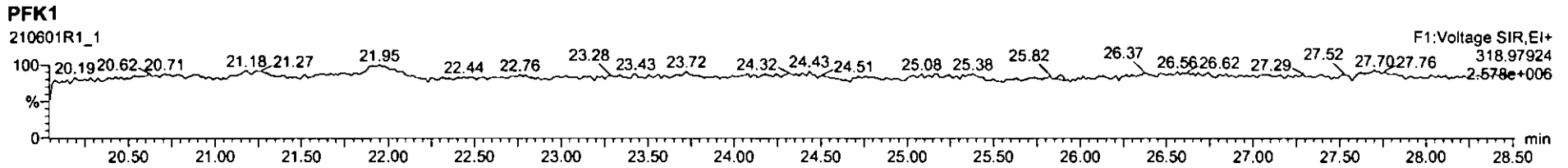
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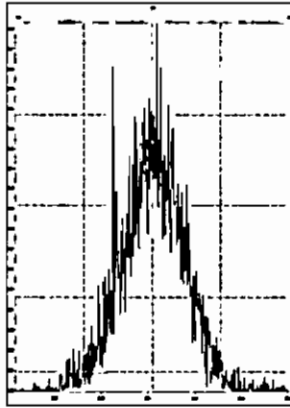
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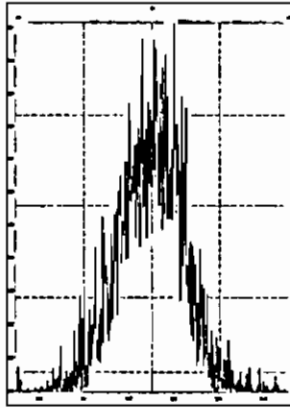


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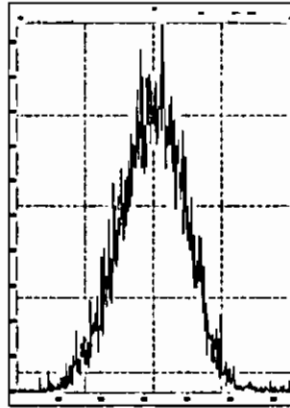
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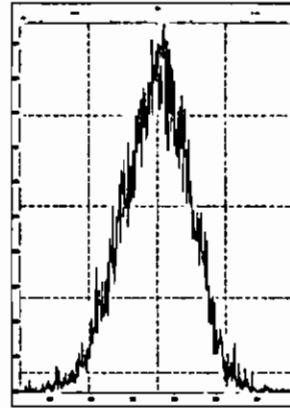
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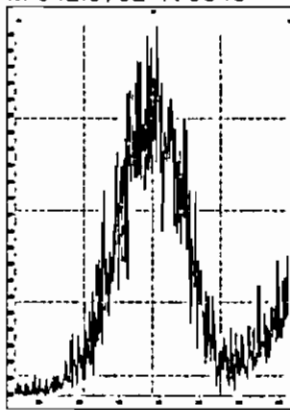
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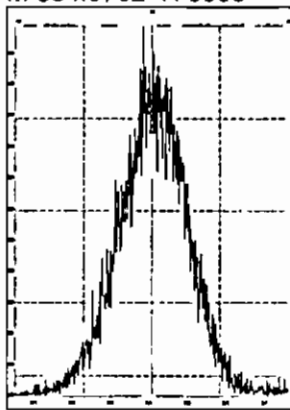
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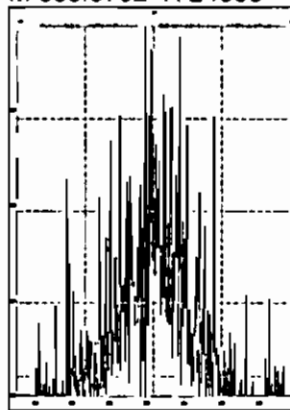
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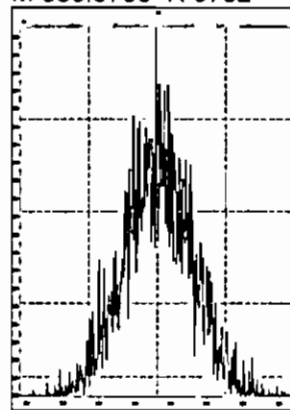
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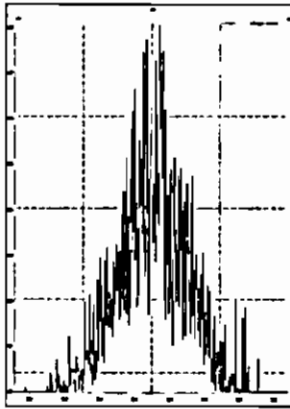
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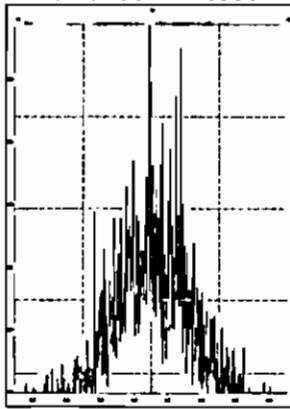
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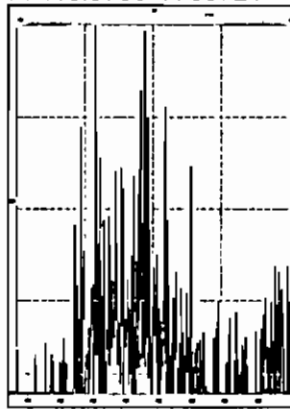
M 392.9760 R 11194



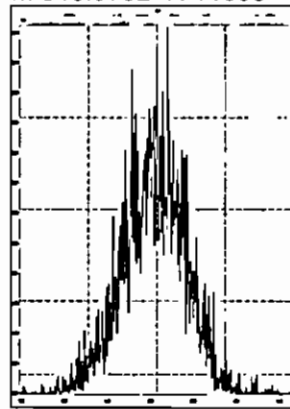
M 404.9760 R 12600



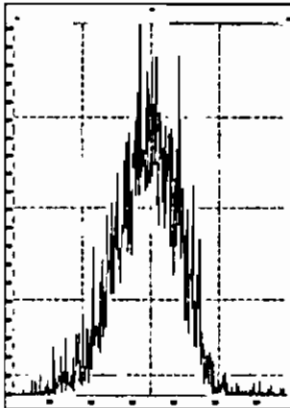
M 416.9760 R 59721



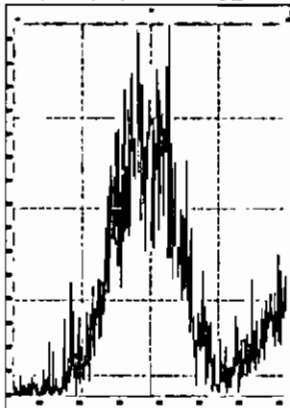
M 318.9792 R 11065



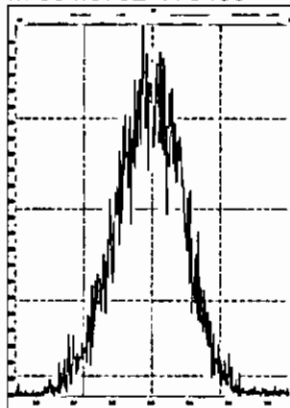
M 330.9792 R 11608



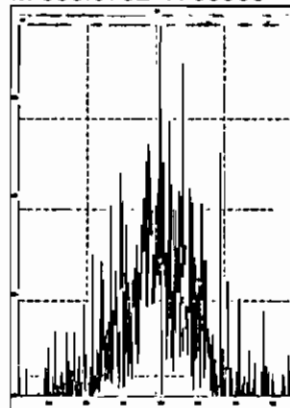
M 342.9792 R 11821



M 354.9792 R 9495 *ok*

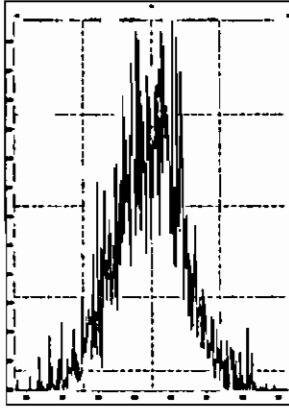


M 366.9792 R 30960

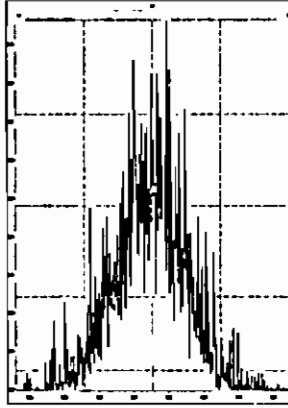


Printed: Tuesday, June 01, 2021 21:07:43 Pacific Daylight Time

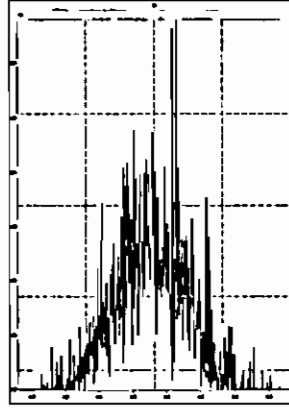
M 380.9760 R 10374



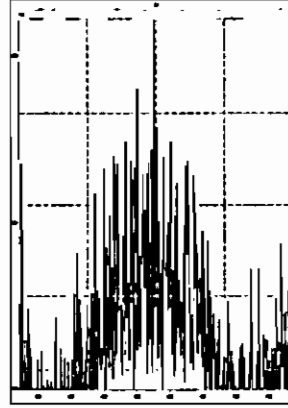
M 392.9760 R 10549



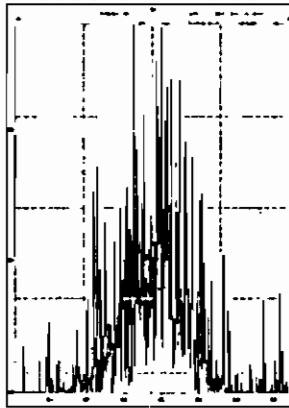
M 404.9760 R 14484



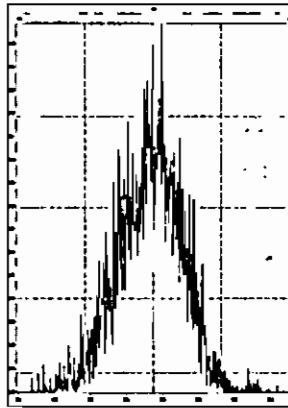
M 416.9760 R 44040



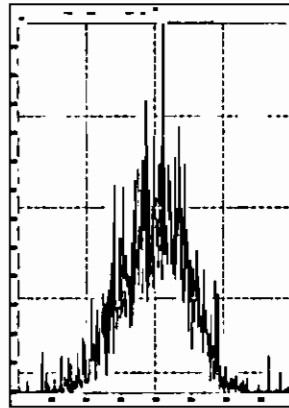
M 366.9792 R 18999



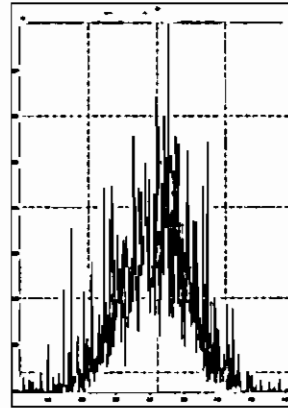
M 380.9760 R 11254



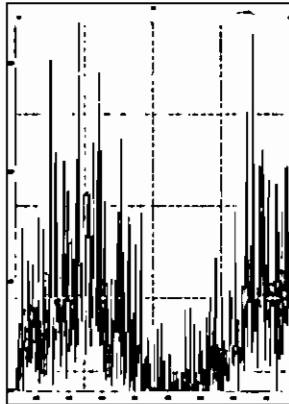
M 392.9760 R 10813



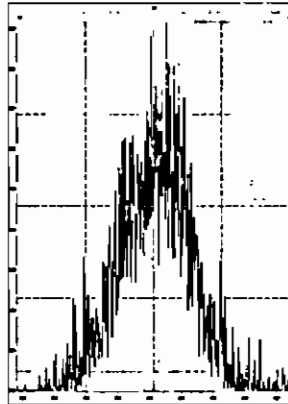
M 404.9760 R 12136



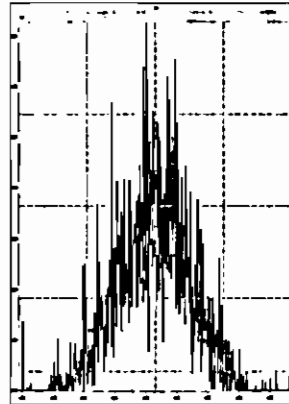
M 416.9760 R 1250000



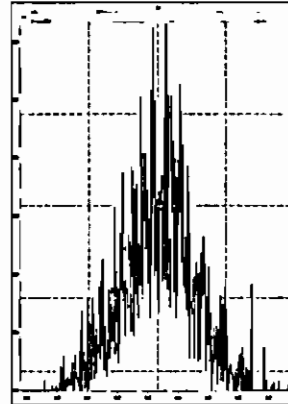
M 430.9728 R 9729 *ok*



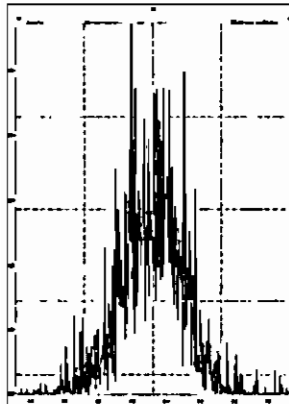
M 442.9728 R 11426



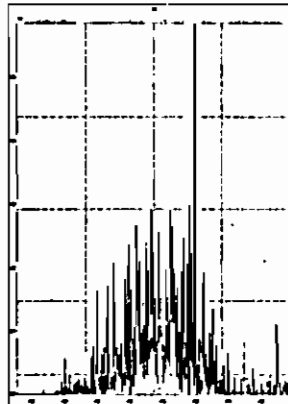
M 454.9728 R 11937



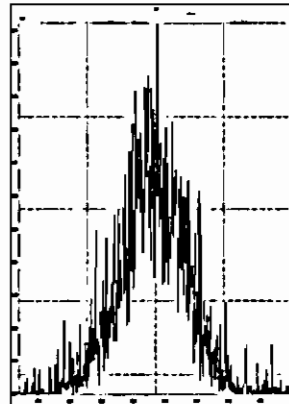
M 404.9760 R 14164



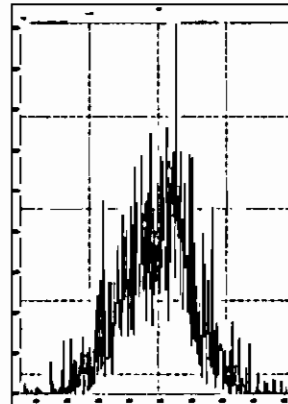
M 416.9760 R 21013



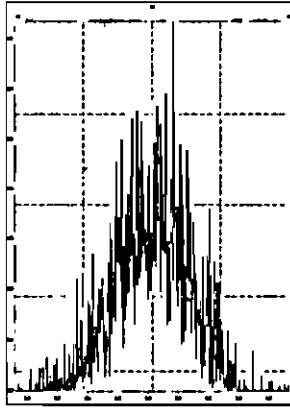
M 430.9728 R 11762



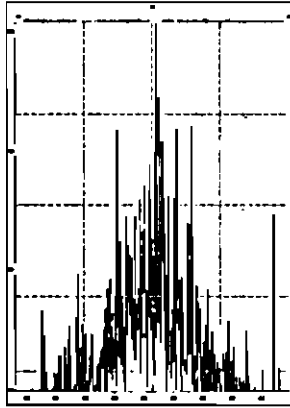
M 442.9728 R 11391



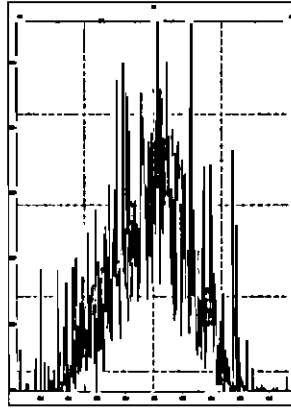
M 454.9728 R 11720



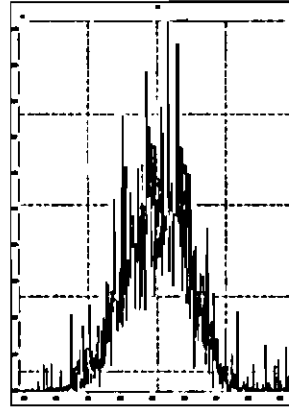
M 466.9728 R 54096



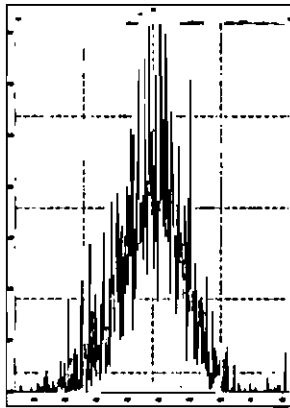
M 480.9696 R 11121



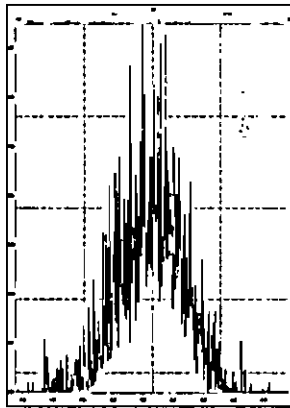
M 430.9728 R 12107



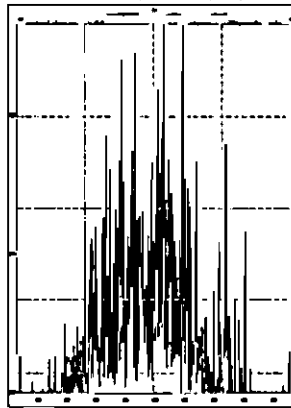
M 442.9728 R 12290



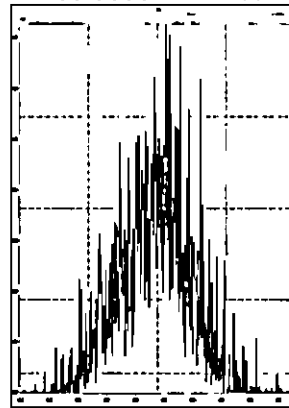
M 454.9728 R 11783



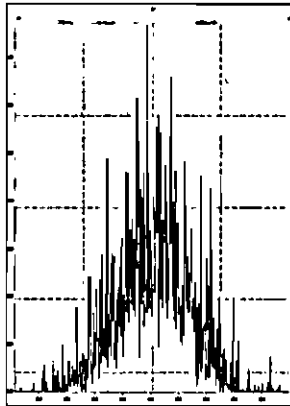
M 466.9728 R 25262



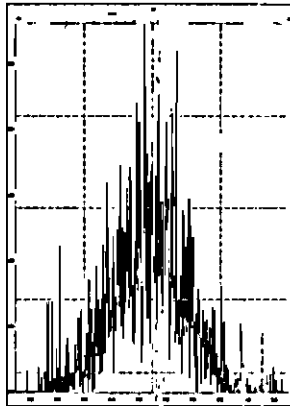
M 480.9696 R 12205



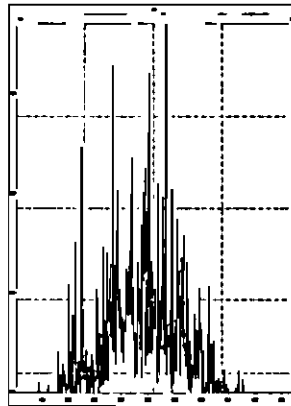
M 492.9696 R 11843



M 504.9696 R 12787



M 516.9697 R 19614



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ^{K-6-4-21} ST210602 R L 1

Reviewed By: JF 6/03/21
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>HN</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> N
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	N
- Bottle position verified?	<u>HN</u>	

Mass resolution \geq
 5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly? NA

GC Break <20% NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours NA

Comments:

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_1.qld

Last Altered: Thursday, June 03, 2021 08:58:19 Pacific Daylight Time
Printed: Thursday, June 03, 2021 12:55:08 Pacific Daylight Time

HN 06/03/21
JF 06/03/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_1, Date: 02-Jun-2021, Time: 13:40:53, ID: ST210602R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.48e5	1.56e6	0.76	NO	0.929	26.73	26.71	NO	1.001	1.001	10.228	102	NO
2	2 1,2,3,7,8-PeCDD	4.92e5	1.11e6	0.62	NO	0.826	31.14	31.12	NO	1.001	1.000	53.486	107	NO
3	3 1,2,3,4,7,8-HxCDD	4.31e5	8.28e5	1.25	NO	0.972	34.47	34.47	NO	1.001	1.001	53.510	107	NO
4	4 1,2,3,6,7,8-HxCDD	4.26e5	9.35e5	1.25	NO	0.877	34.59	34.59	NO	1.001	1.001	51.960	104	NO
5	5 1,2,3,7,8,9-HxCDD	4.55e5	9.74e5	1.22	NO	0.874	34.87	34.87	NO	1.000	1.000	53.464	107	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.24e5	7.02e5	1.03	NO	0.899	38.31	38.31	NO	1.000	1.000	51.269	103	NO
7	7 OCDD	5.37e5	1.22e6	0.88	NO	0.852	41.45	41.46	NO	1.000	1.000	103.21	103	NO
8	8 2,3,7,8-TCDF	1.65e5	2.17e6	0.73	NO	0.747	26.08	26.09	NO	1.000	1.001	10.206	102	NO
9	9 1,2,3,7,8-PeCDF	7.08e5	1.53e6	1.56	NO	0.877	29.92	29.93	NO	1.000	1.000	52.755	106	NO
10	10 2,3,4,7,8-PeCDF	7.41e5	1.46e6	1.56	NO	0.962	30.95	30.94	NO	1.001	1.000	52.729	105	NO
11	11 1,2,3,4,7,8-HxCDF	5.20e5	1.10e6	1.23	NO	0.920	33.52	33.53	NO	1.000	1.001	51.376	103	NO
12	12 1,2,3,6,7,8-HxCDF	5.70e5	1.20e6	1.20	NO	0.936	33.68	33.67	NO	1.001	1.000	50.826	102	NO
13	13 2,3,4,6,7,8-HxCDF	5.16e5	1.03e6	1.23	NO	0.973	34.36	34.36	NO	1.001	1.001	51.582	103	NO
14	14 1,2,3,7,8,9-HxCDF	4.32e5	9.13e5	1.24	NO	0.940	35.44	35.44	NO	1.000	1.000	50.389	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.21e5	7.85e5	1.01	NO	1.05	37.08	37.08	NO	1.000	1.001	51.186	102	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.68e5	6.98e5	1.01	NO	1.05	38.96	38.97	NO	1.000	1.001	50.529	101	NO
17	17 OCDF	6.00e5	1.53e6	0.88	NO	0.771	41.78	41.78	NO	1.000	1.000	101.70	102	NO
18	18 13C-2,3,7,8-TCDD	1.56e6	1.32e6	0.79	NO	1.10	26.68	26.70	NO	1.027	1.027	107.14	107	NO
19	19 13C-1,2,3,7,8-PeCDD	1.11e6	1.32e6	0.63	NO	0.864	31.07	31.10	NO	1.196	1.197	97.920	97.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	8.28e5	1.19e6	1.29	NO	0.746	34.45	34.44	NO	1.014	1.014	93.254	93.3	NO
21	21 13C-1,2,3,6,7,8-HxCDD	9.35e5	1.19e6	1.29	NO	0.847	34.57	34.57	NO	1.017	1.017	92.785	92.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	9.74e5	1.19e6	1.26	NO	0.868	34.87	34.86	NO	1.026	1.026	94.282	94.3	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.02e5	1.19e6	1.05	NO	0.664	38.22	38.30	NO	1.125	1.127	88.838	88.8	NO
24	24 13C-OCDD	1.22e6	1.19e6	0.89	NO	0.561	41.17	41.44	NO	1.211	1.219	183.10	91.6	NO
25	25 13C-2,3,7,8-TCDF	2.17e6	2.04e6	0.78	NO	1.09	26.08	26.08	NO	1.003	1.003	97.230	97.2	NO
26	26 13C-1,2,3,7,8-PeCDF	1.53e6	2.04e6	1.59	NO	0.809	29.80	29.91	NO	1.147	1.151	92.549	92.5	NO
27	27 13C-2,3,4,7,8-PeCDF	1.46e6	2.04e6	1.59	NO	0.803	30.76	30.92	NO	1.184	1.190	89.103	89.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.10e6	1.19e6	0.51	NO	1.01	33.53	33.51	NO	0.987	0.986	91.375	91.4	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.20e6	1.19e6	0.51	NO	1.07	33.65	33.66	NO	0.990	0.990	93.814	93.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.03e6	1.19e6	0.51	NO	0.910	34.35	34.34	NO	1.011	1.010	94.992	95.0	NO
31	31 13C-1,2,3,7,8,9-HxCDF	9.13e5	1.19e6	0.51	NO	0.828	35.42	35.43	NO	1.042	1.043	92.614	92.6	NO

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_1.qld

Last Altered: Thursday, June 03, 2021 08:58:19 Pacific Daylight Time

Printed: Thursday, June 03, 2021 12:55:08 Pacific Daylight Time

Name: 210602R1_1, Date: 02-Jun-2021, Time: 13:40:53, ID: ST210602R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.85e5	1.19e6	0.44	NO	0.661	37.03	37.06	NO	1.090	1.090	99.777	99.8	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.98e5	1.19e6	0.45	NO	0.566	38.79	38.95	NO	1.141	1.146	103.61	104	NO
34	34 13C-OCDF	1.53e6	1.19e6	0.88	NO	0.663	41.55	41.77	NO	1.223	1.229	194.14	97.1	NO
35	35 37Cl-2,3,7,8-TCDD	2.94e5	1.32e6			2.07	26.89	26.71	NO	1.035	1.028	10.795	108	NO
36	36 13C-1,2,3,4-TCDD	1.32e6	1.32e6	0.79	NO	1.00	26.07	25.99	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.04e6	2.04e6	0.79	NO	1.00	24.76	24.66	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.19e6	1.19e6	0.51	NO	1.00	34.04	33.99	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Thursday, June 03, 2021 12:58:19 Pacific Daylight Time
Printed: Thursday, June 03, 2021 12:58:37 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

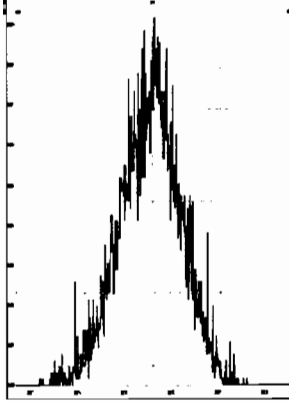
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	210602R1_1	ST210602R1_1 1613 CS3 21C0105	02-Jun-21	13:40:53
2	210602R1_2	B1E0215-BS1@20X OPR 1	02-Jun-21	14:37:55
3	210602R1_3	B1E0215-BS1 OPR 1	02-Jun-21	15:25:02
4	210602R1_4	SOLVENT BLANK	02-Jun-21	16:11:32
5	210602R1_5	B1E0215-BLK1 Method Blank 1	02-Jun-21	16:56:42
6	210602R1_6	HRMS-210602-01	02-Jun-21	17:41:00
7	210602R1_7	HRMS-210602-02	02-Jun-21	18:25:14
8	210602R1_8	HRMS-210602-03	02-Jun-21	19:09:28
9	210602R1_9	HRMS-210602-04	02-Jun-21	19:53:44
10	210602R1_10	HRMS-210602-05	02-Jun-21	20:37:59
11	210602R1_11	2105023-14 USMPDI-019SC-A-11-11.6-21050...	02-Jun-21	21:22:14
12	210602R1_12	2105042-01 USMPDI-028SC-A-01-02-210504 ...	02-Jun-21	22:06:29
13	210602R1_13	B1E0224-DUP1 Duplicate 19.74	02-Jun-21	22:50:44
14	210602R1_14	2105042-02 USMPDI-028SC-A-02-03-210504 ...	02-Jun-21	23:34:59
15	210602R1_15	2105042-03 USMPDI-028SC-A-03-04-210504 ...	03-Jun-21	00:19:15
16	210602R1_16	DCM SOLVENT BLANK	03-Jun-21	01:12:27

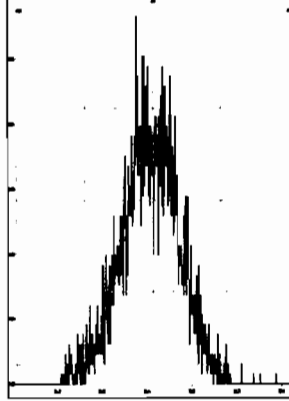
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 02, 2021 13:30:11 Pacific Daylight Time

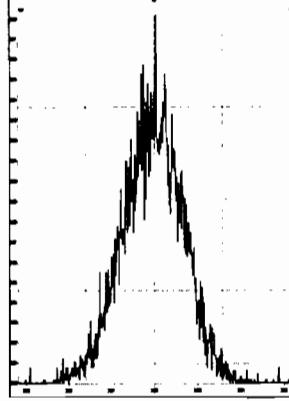
M 292.9824 R 10914



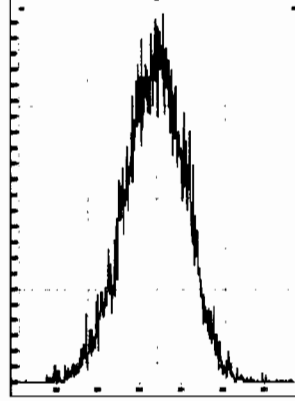
M 304.9824 R 11737



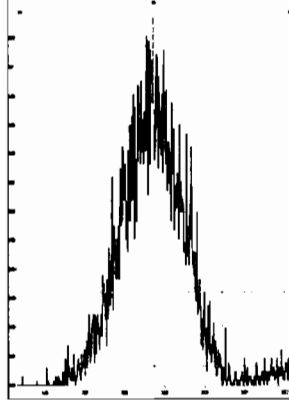
M 318.9792 R 10459



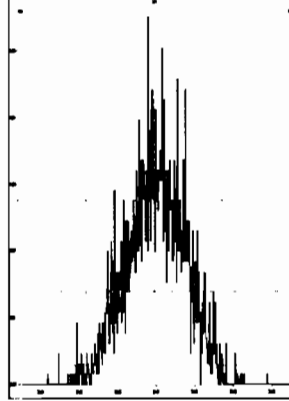
M 330.9792 R 10594



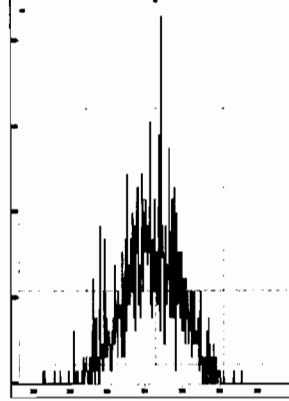
M 342.9792 R 10503



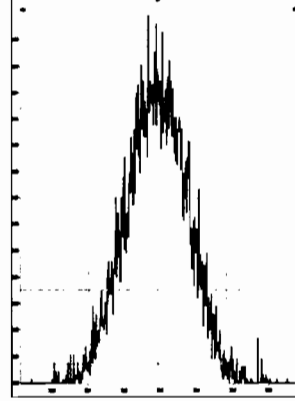
M 354.9792 R 12501



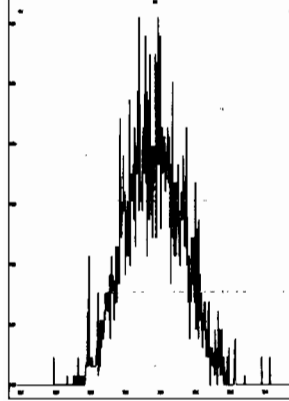
M 366.9792 R 12504



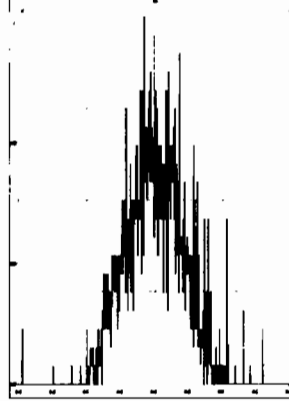
M 380.9760 R 10458



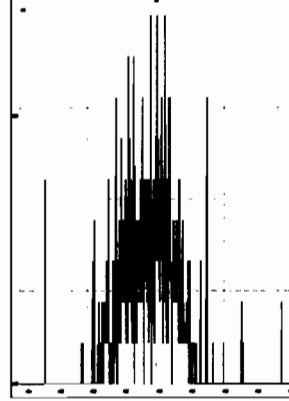
M 392.9760 R 10964



M 404.9760 R 13018



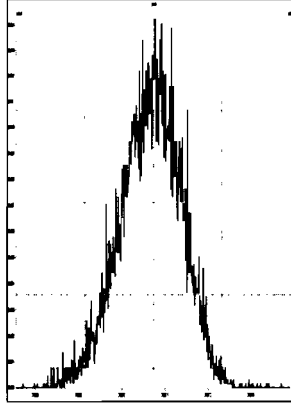
M 416.9760 R 16667



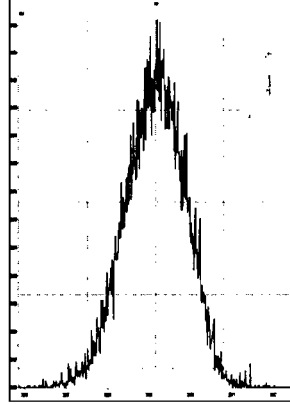
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, June 02, 2021 13:33:58 Pacific Daylight Time

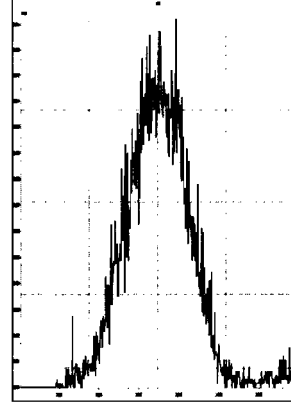
M 318.9792 R 10415



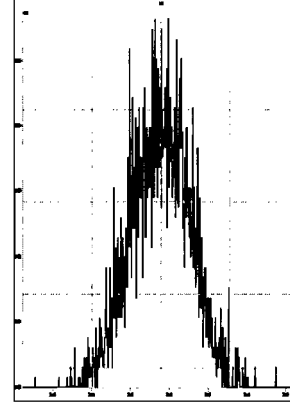
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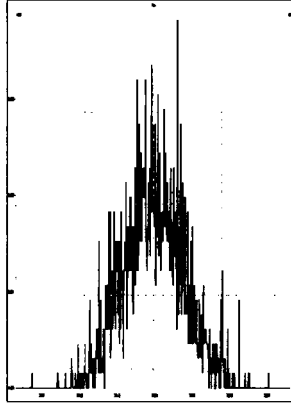
M 342.9792 R 11310



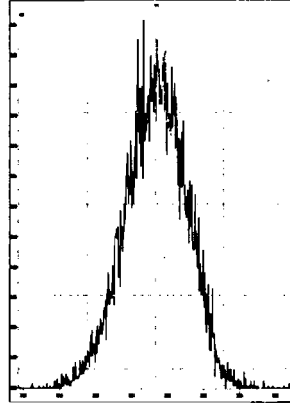
M 354.9792 R 11107



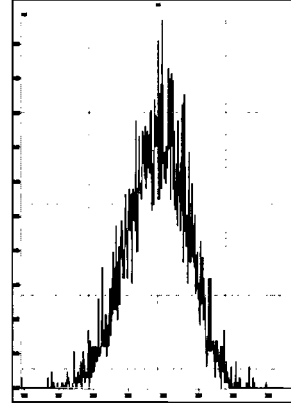
M 366.9792 R 13231



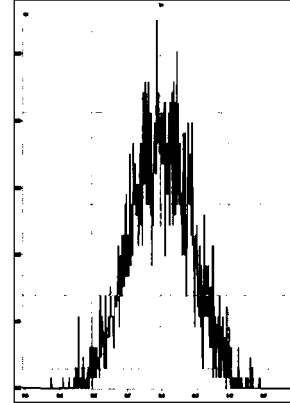
M 380.9760 R 10461



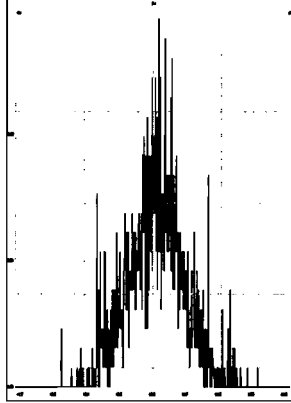
M 392.9760 R 11110



M 404.9760 R 10289



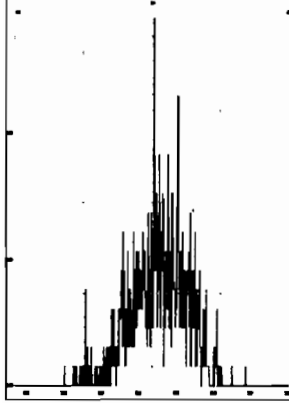
M 416.9760 R 14705



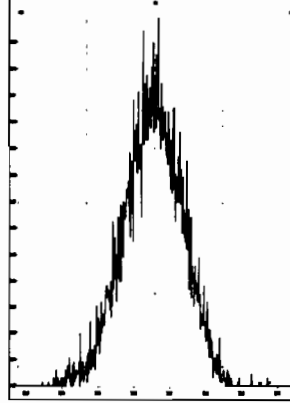
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

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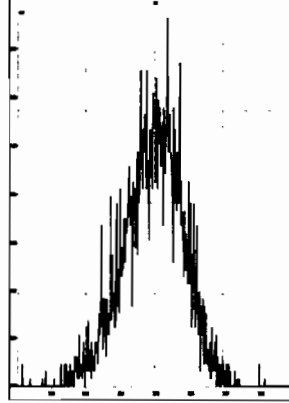
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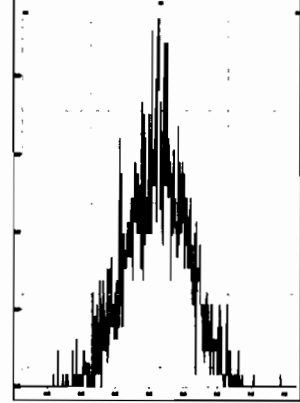
M 380.9760 R 10920



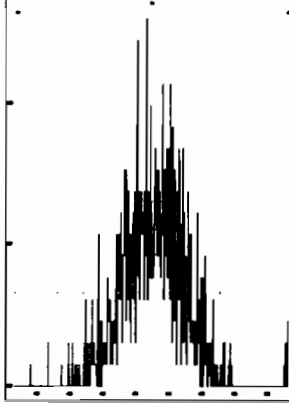
M 392.9760 R 11575



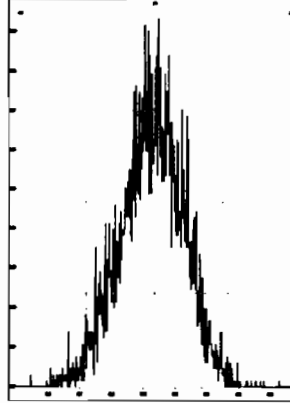
M 404.9760 R 12314



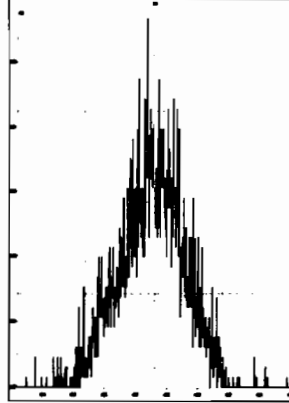
M 416.9760 R 11683



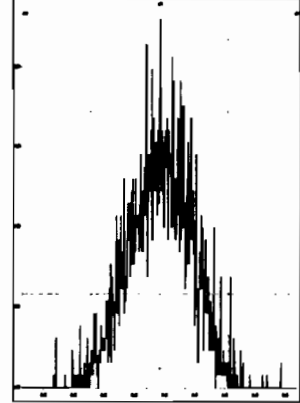
M 430.9728 R 10080



M 442.9728 R 11059



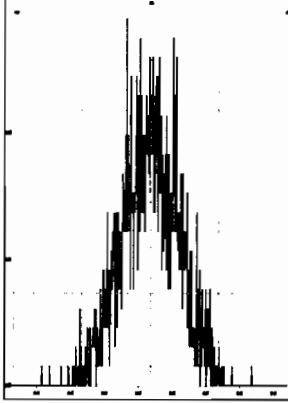
M 454.9728 R 10683



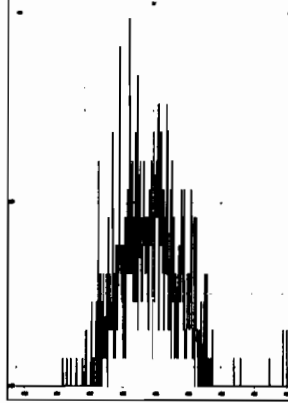
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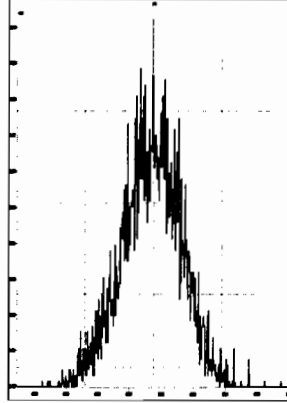
M 404.9760 R 11627



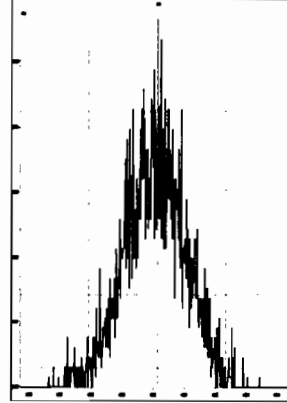
M 416.9760 R 13658



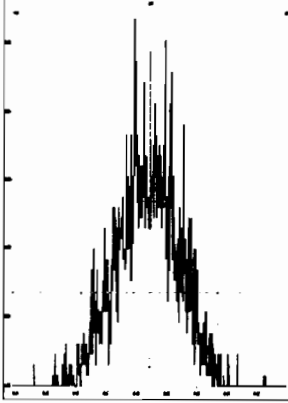
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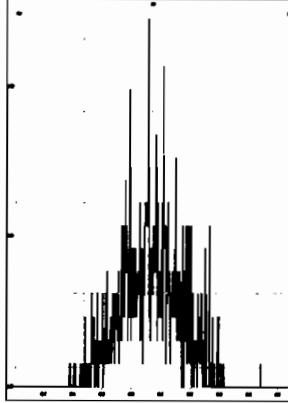
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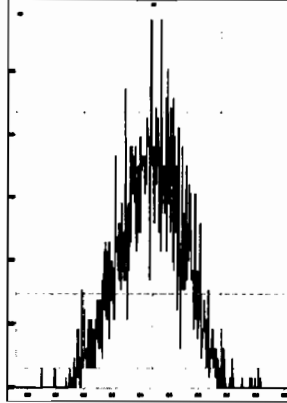
M 454.9728 R 10460



M 466.9728 R 14284



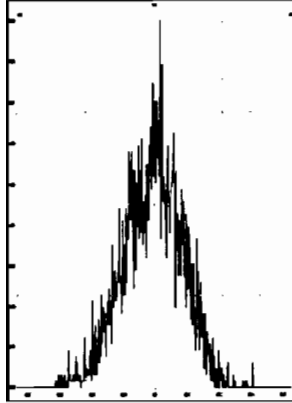
M 480.9696 R 10122



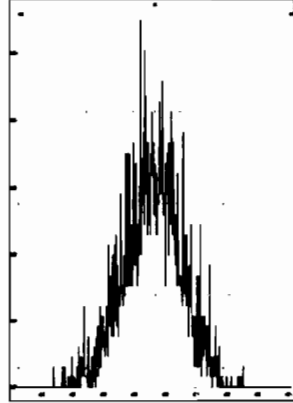
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Printed: Wednesday, June 02, 2021 13:38:16 Pacific Daylight Time

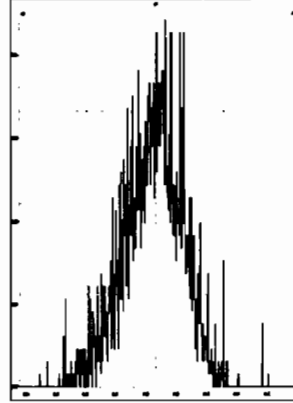
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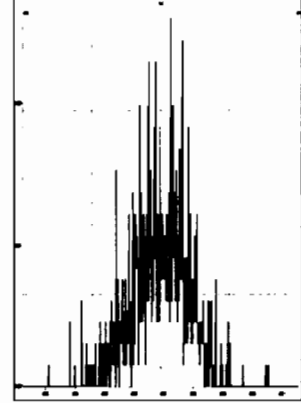
M 442.9728 R 11262



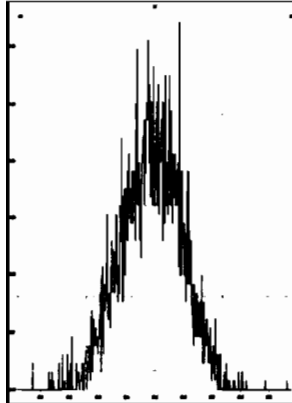
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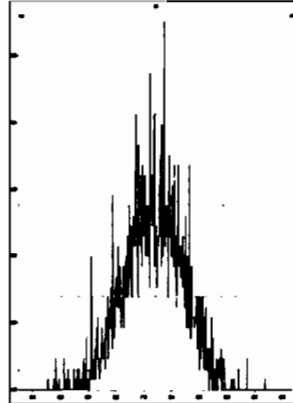
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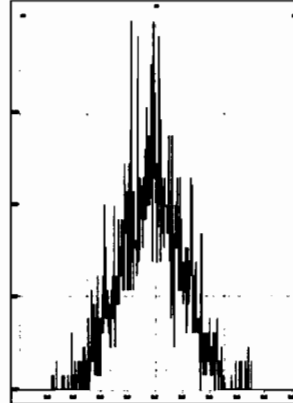
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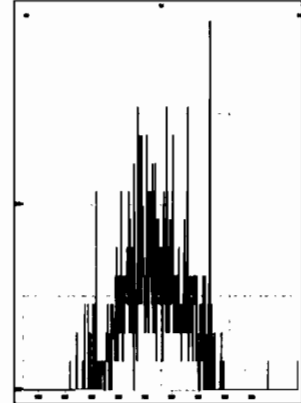
M 492.9696 R 12137



M 504.9696 R 13812



M 516.9697 R 13810



Dataset: U:\VG12.PRO\Results\210602R1\210602R1_CPSM.qld

Last Altered: Thursday, June 03, 2021 08:58:41 Pacific Daylight Time

Printed: Thursday, June 03, 2021 12:31:17 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_1, Date: 02-Jun-2021, Time: 13:40:53, ID: ST210602R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1 1,3,6,8-TCDD (First)	23.30
2	2 1,2,8,9-TCDD (Last)	27.54
3	3 1,2,4,7,9-PeCDD (First)	28.95
4	4 1,2,3,8,9-PeCDD (Last)	31.47
5	5 1,2,4,6,7,9-HxCDD (First)	32.74
6	6 1,2,3,7,8,9-HxCDD (Last)	34.87
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.41
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.31
9	9 1,3,6,8-TCDF (First)	21.18
10	10 1,2,8,9-TCDF (Last)	27.86
11	11 1,3,4,6,8-PeCDF (First)	27.41
12	12 1,2,3,8,9-PeCDF (Last)	31.83
13	13 1,2,3,4,6,8-HxCDF (First)	32.21
14	14 1,2,3,7,8,9-HxCDF (Last)	35.44
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.08
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.97

Dataset: U:\VG12.PRO\Results\210602R1\210602R1_CPSM.qld

Last Altered: Thursday, June 03, 2021 08:58:41 Pacific Daylight Time

Printed: Thursday, June 03, 2021 12:31:17 Pacific Daylight Time

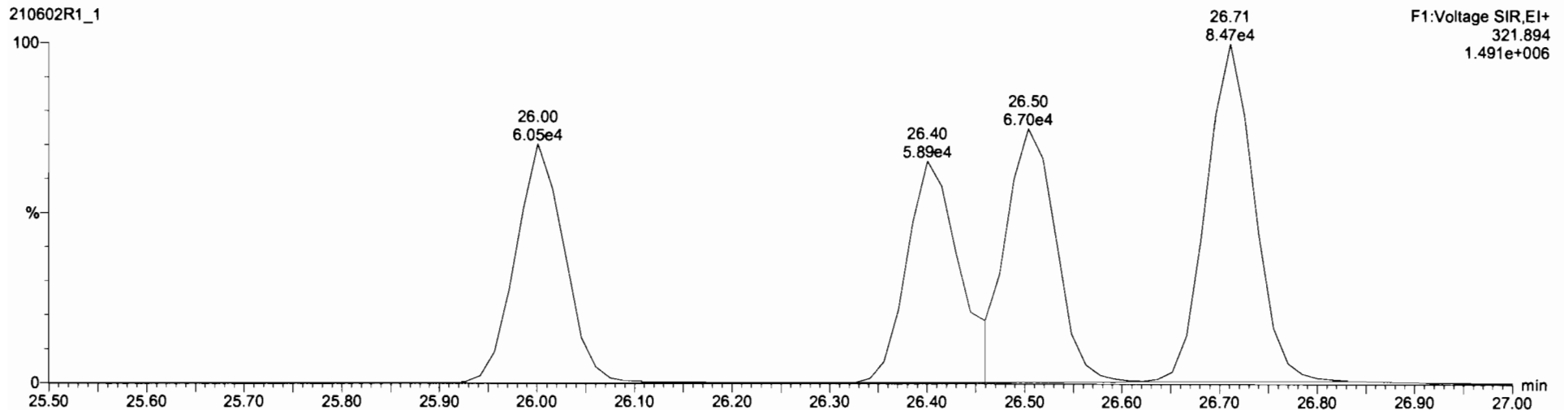
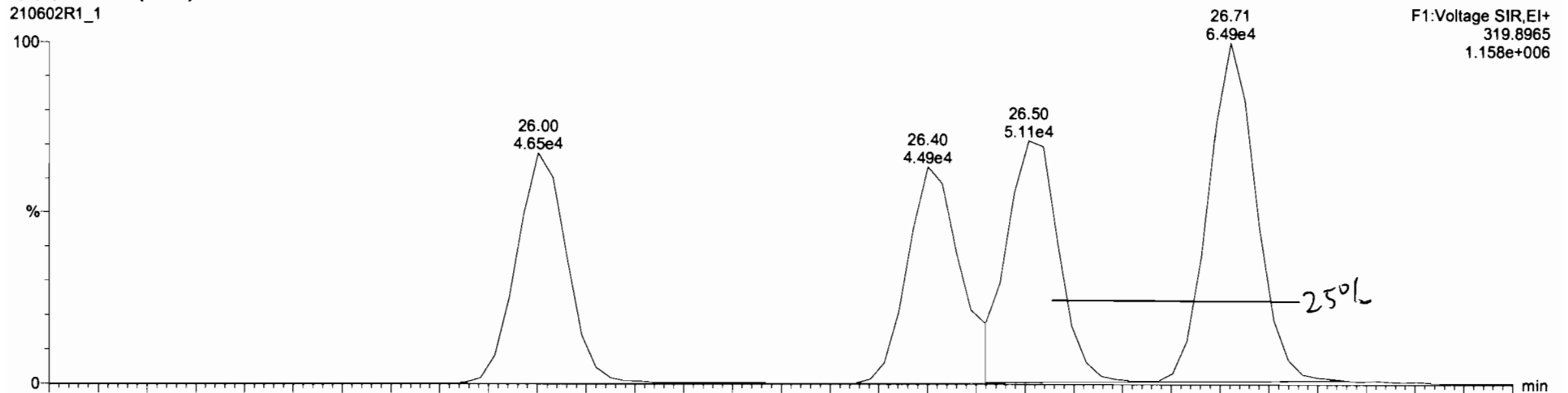
HN 06/03/21

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_1, Date: 02-Jun-2021, Time: 13:40:53, ID: ST210602R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDD (First)



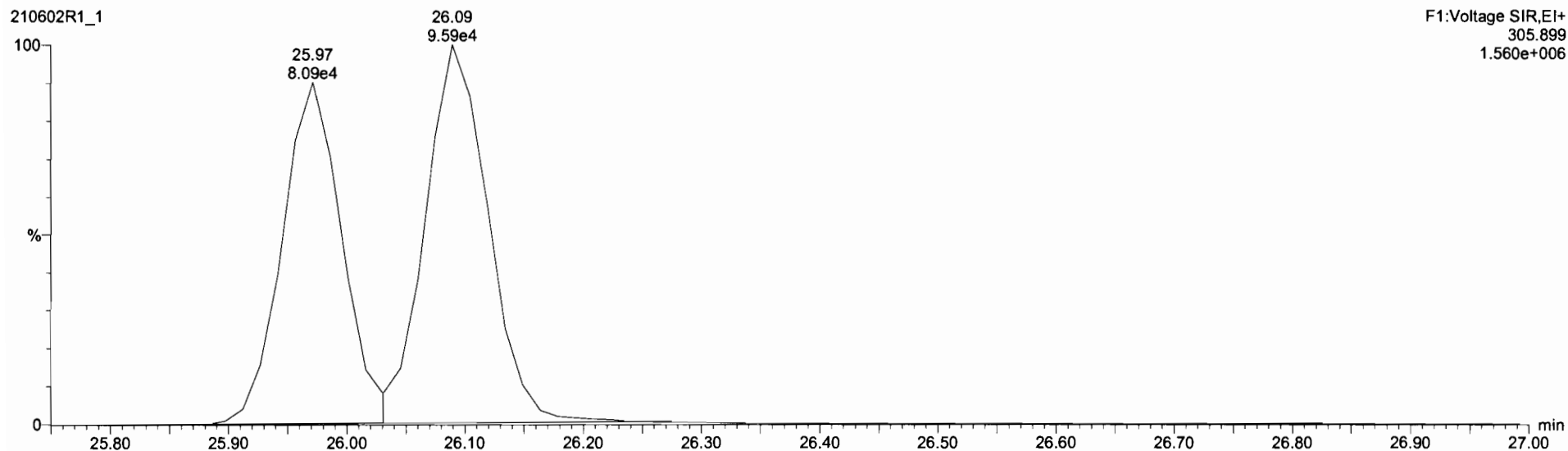
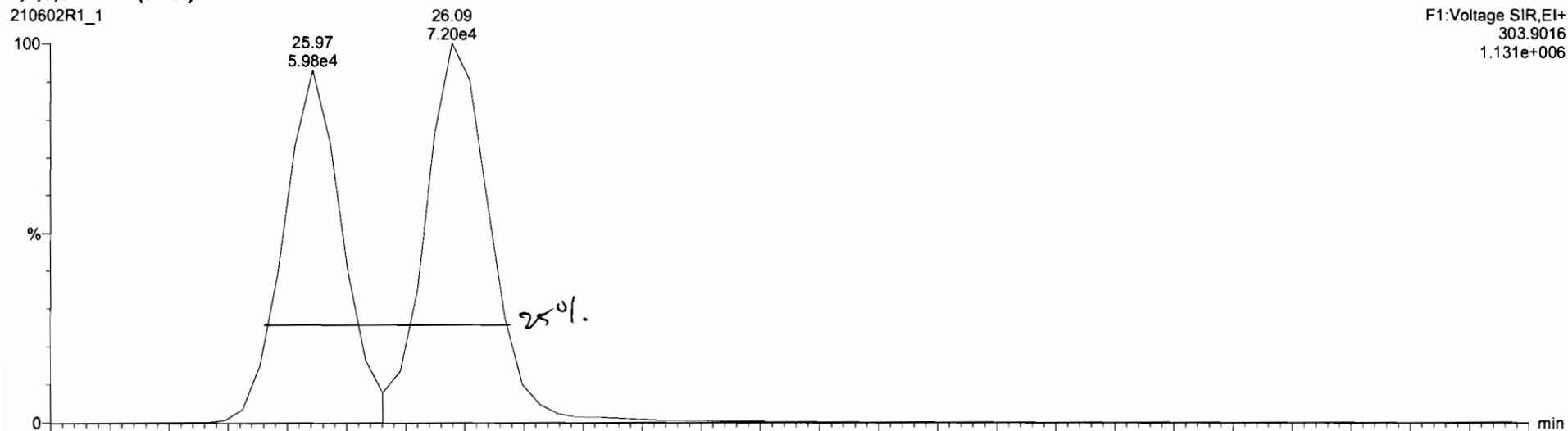
Dataset: U:\VG12.PRO\Results\210602R1\210602R1_CPSM.qld

Last Altered: Thursday, June 03, 2021 08:58:41 Pacific Daylight Time
Printed: Thursday, June 03, 2021 12:31:17 Pacific Daylight Time

HN 06/03/21

Name: 210602R1_1, Date: 02-Jun-2021, Time: 13:40:53, ID: ST210602R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDF (First)



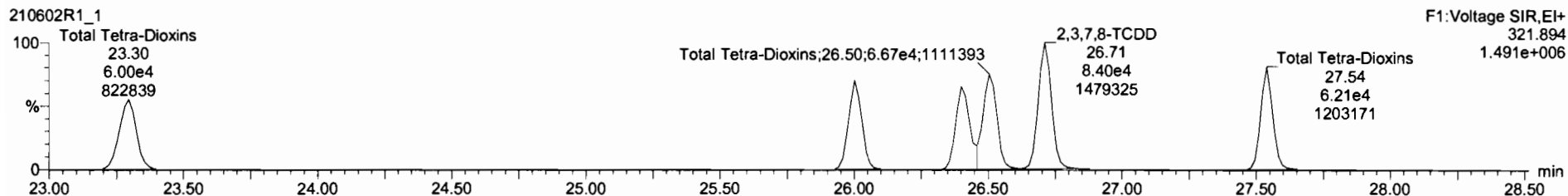
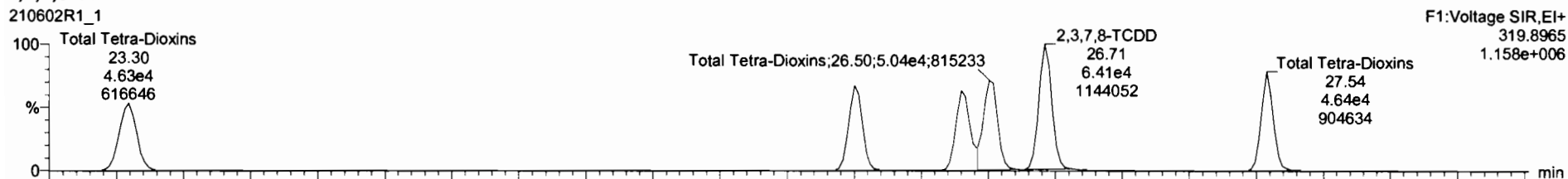
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Last Altered: Thursday, June 03, 2021 08:58:19 Pacific Daylight Time
Printed: Thursday, June 03, 2021 12:30:41 Pacific Daylight Time

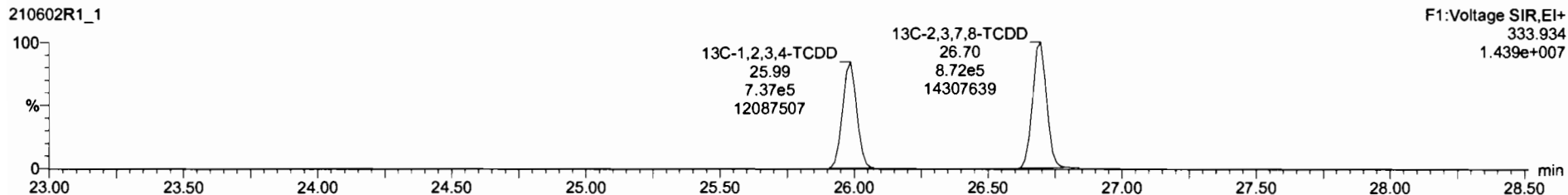
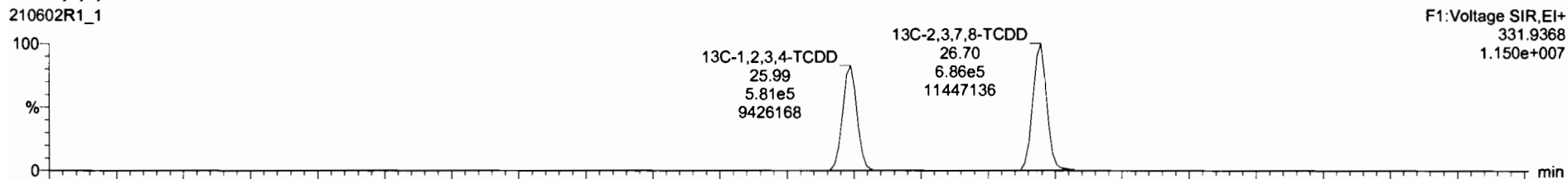
Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210602R1_1, Date: 02-Jun-2021, Time: 13:40:53, ID: ST210602R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD



13C-2,3,7,8-TCDD



Dataset: U:\VG12.PRO\Results\210602R1\210602R1_1.qld

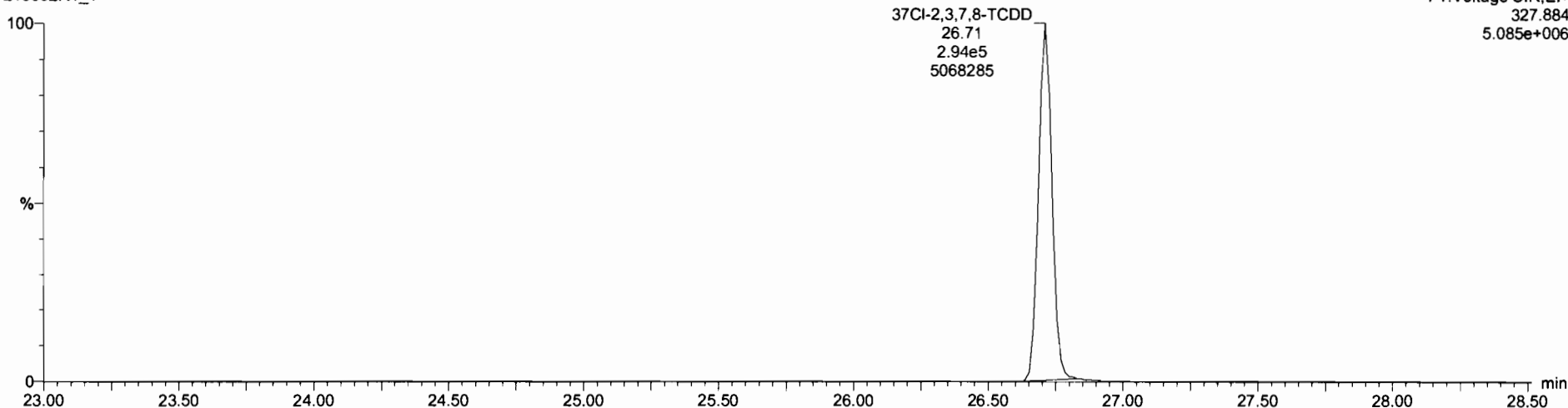
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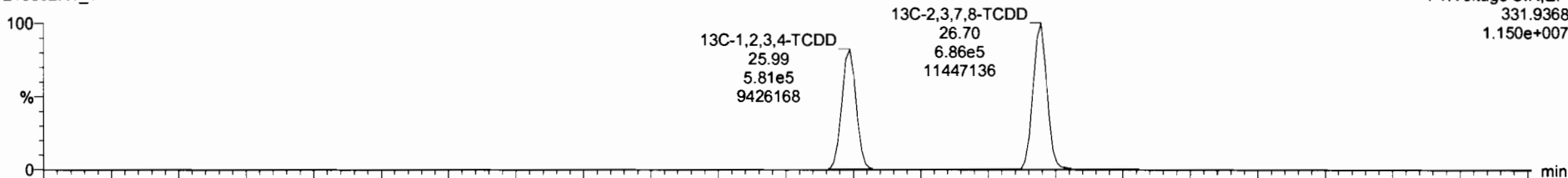
37Cl-2,3,7,8-TCDD

210602R1_1

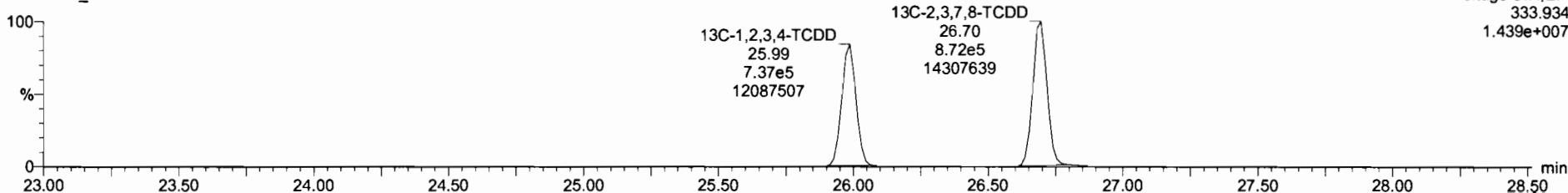


13C-1,2,3,4-TCDD

210602R1_1



210602R1_1



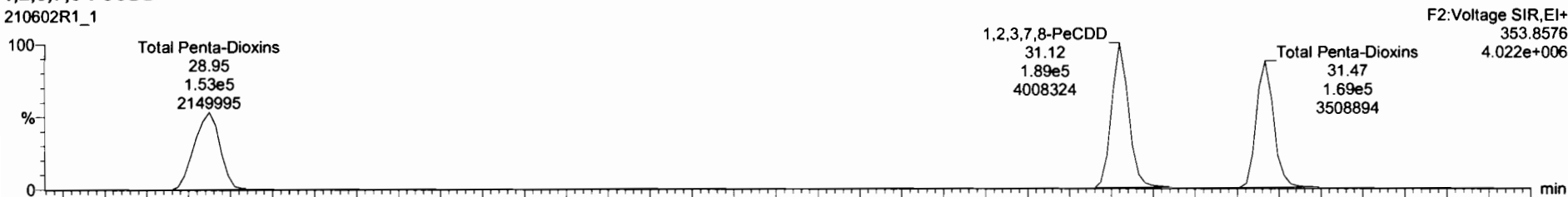
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Printed: Thursday, June 03, 2021 12:30:41 Pacific Daylight Time

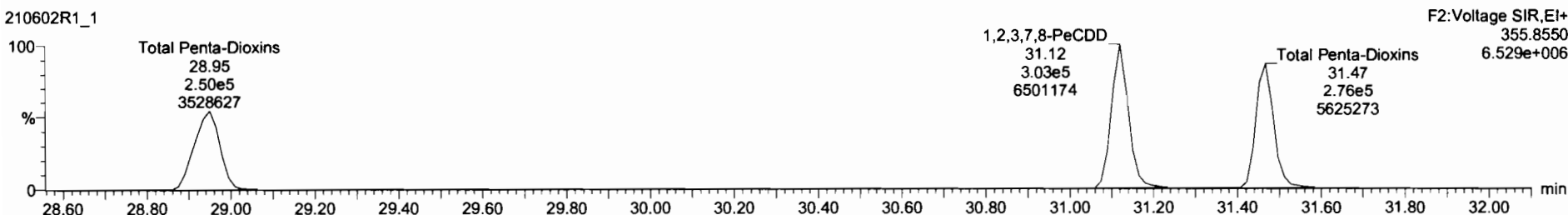
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1,2,3,7,8-PeCDD

210602R1_1

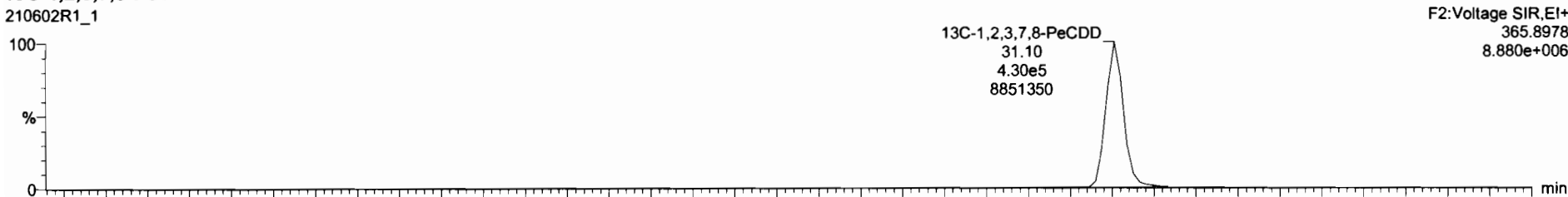


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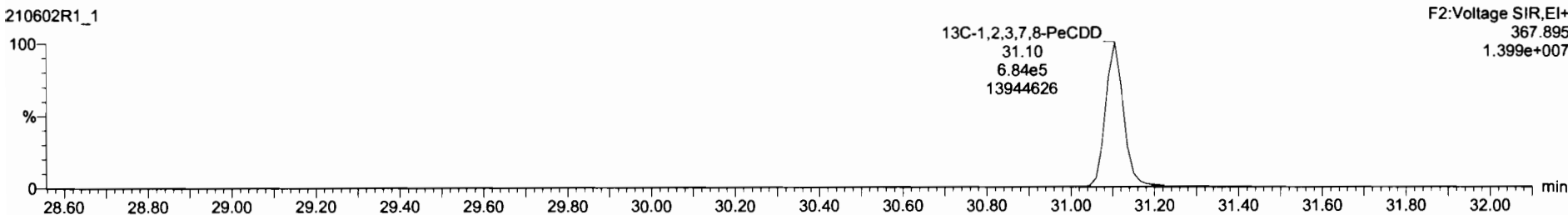


13C-1,2,3,7,8-PeCDD

210602R1_1



210602R1_1

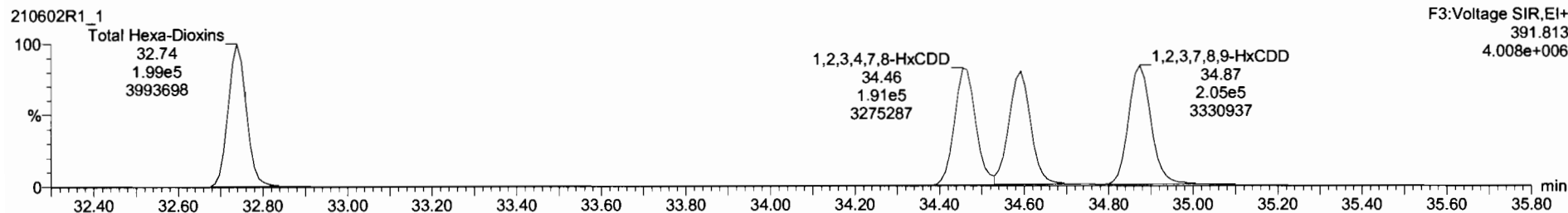
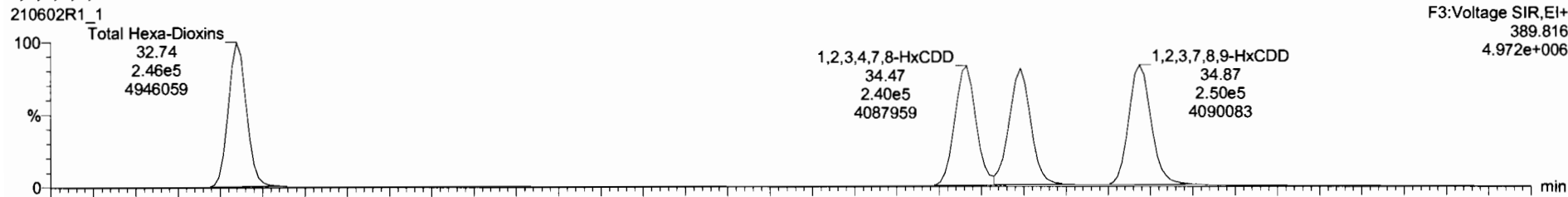


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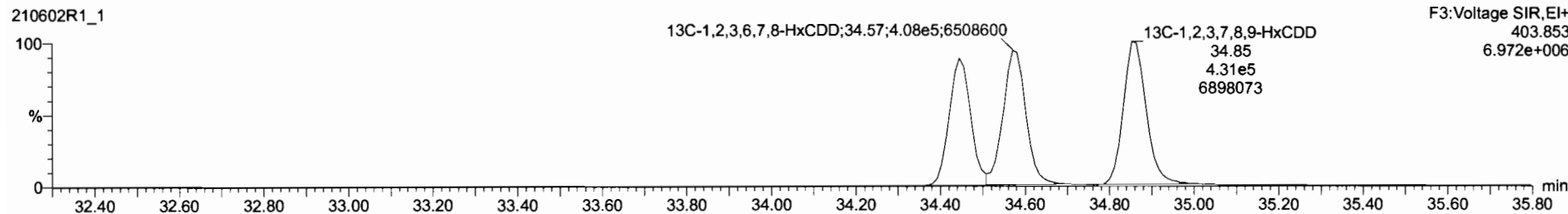
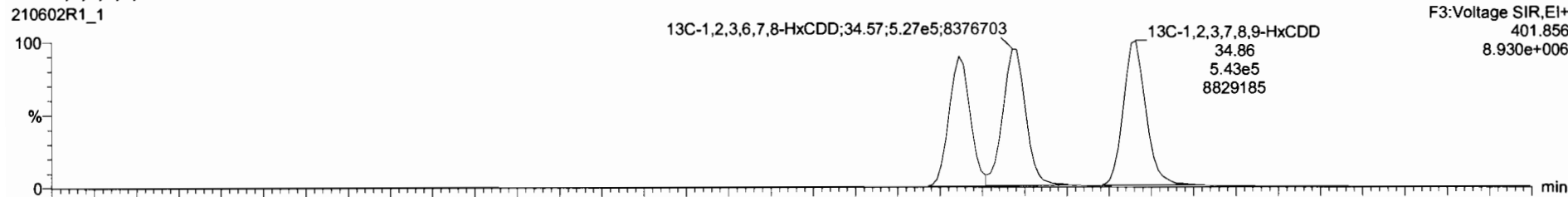
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Name: 210602R1_1, Date: 02-Jun-2021, Time: 13:40:53, ID: ST210602R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD



Dataset: U:\VG12.PRO\Results\210602R1\210602R1_1.qld

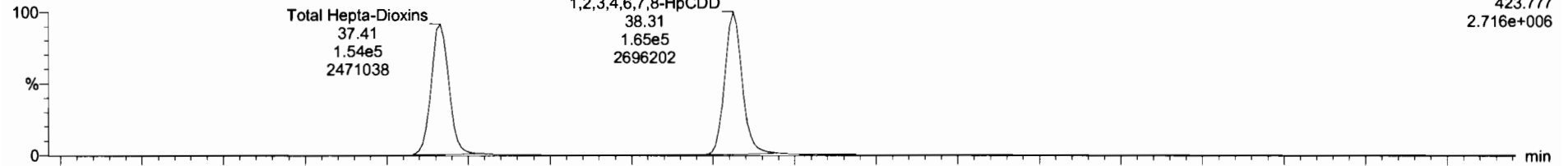
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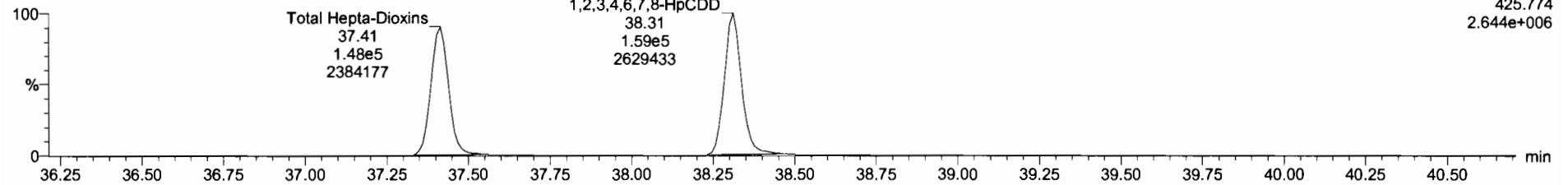
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1,2,3,4,6,7,8-HpCDD

210602R1_1

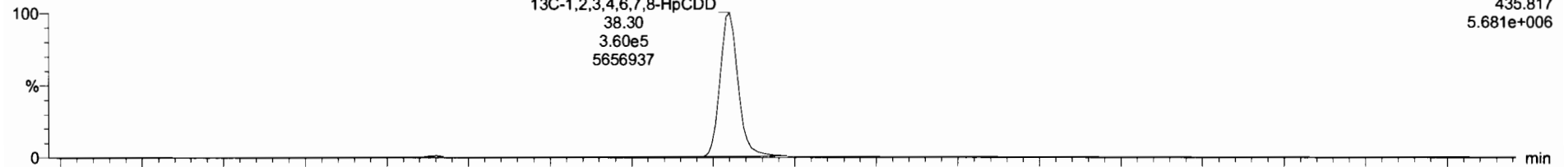


210602R1_1

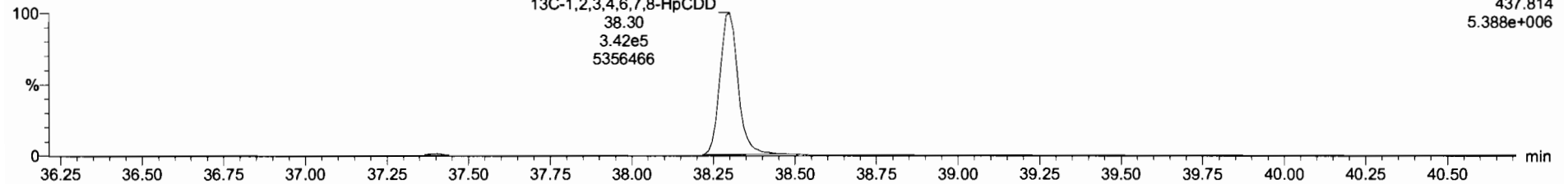


13C-1,2,3,4,6,7,8-HpCDD

210602R1_1



210602R1_1



Dataset: U:\VG12.PRO\Results\210602R1\210602R1_1.qld

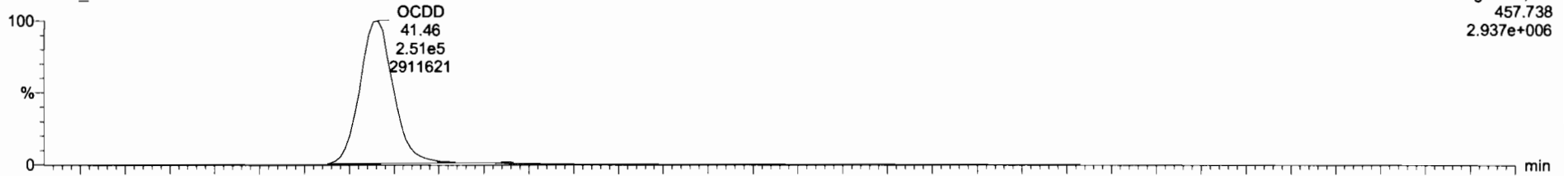
Last Altered: Thursday, June 03, 2021 08:58:19 Pacific Daylight Time

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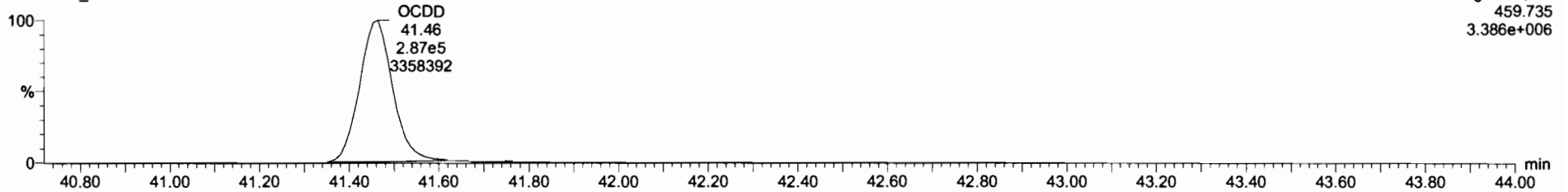
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OCDD

210602R1_1

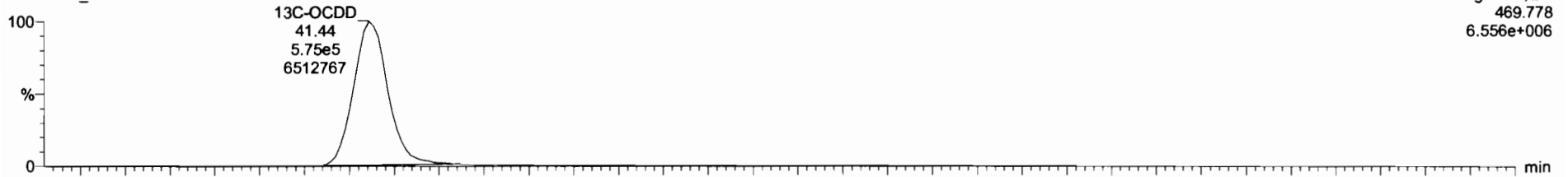


210602R1_1

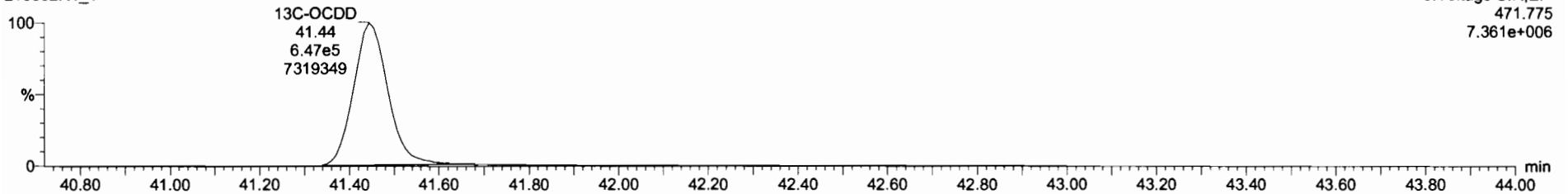


13C-OCDD

210602R1_1



210602R1_1

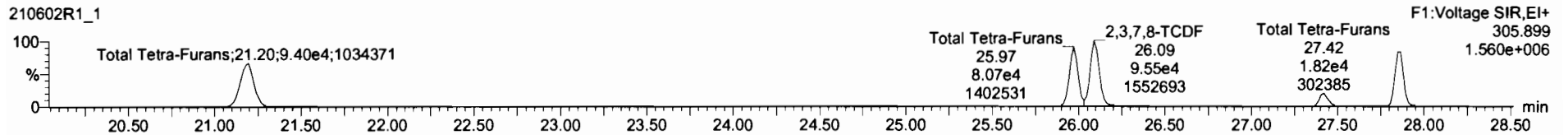
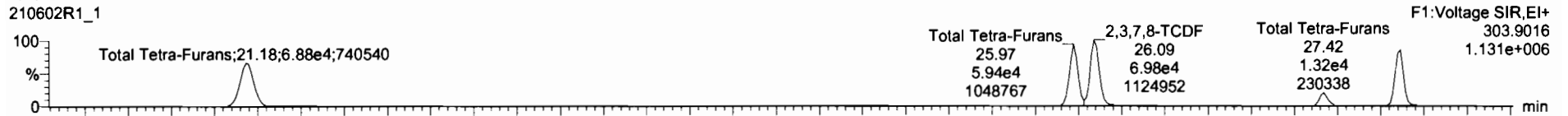


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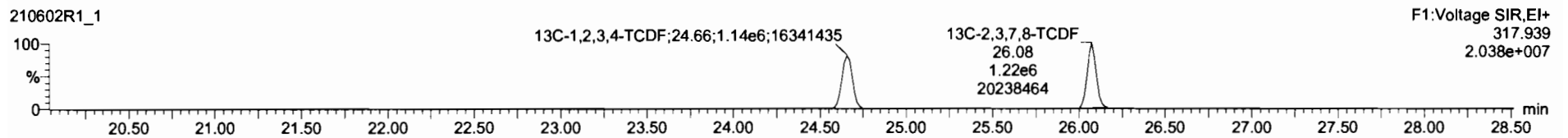
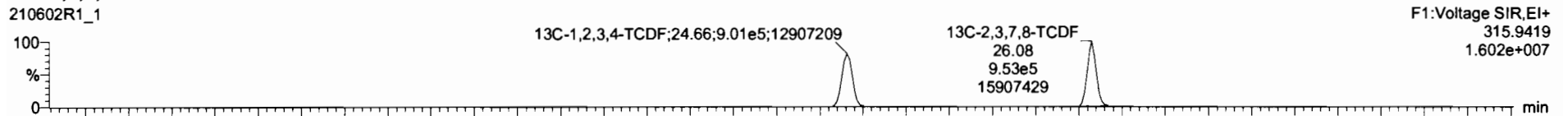
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Printed: Thursday, June 03, 2021 12:30:41 Pacific Daylight Time

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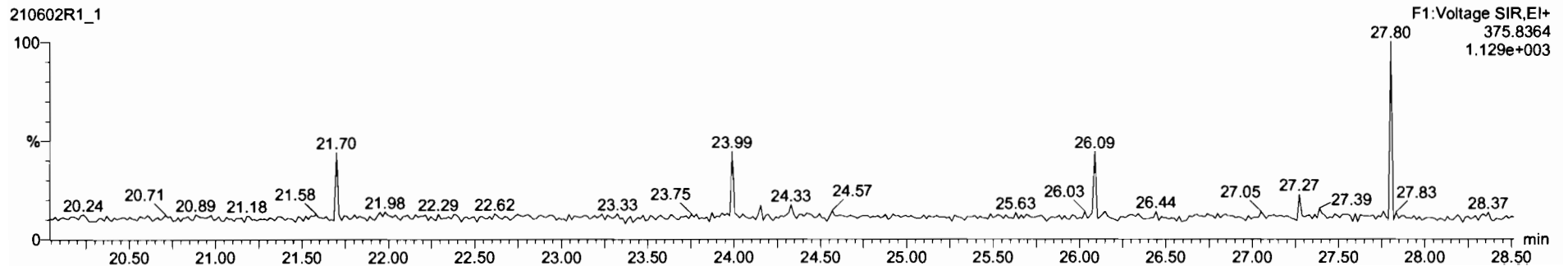
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



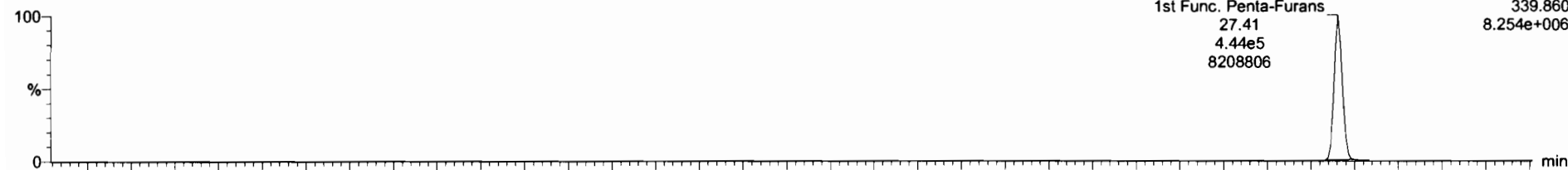
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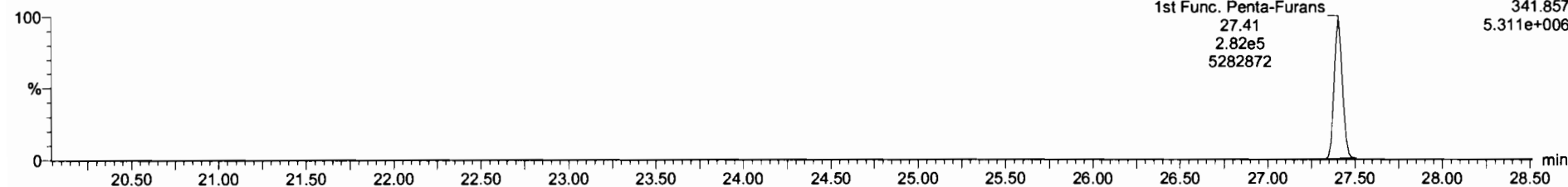
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1st Func. Penta-Furans

210602R1_1

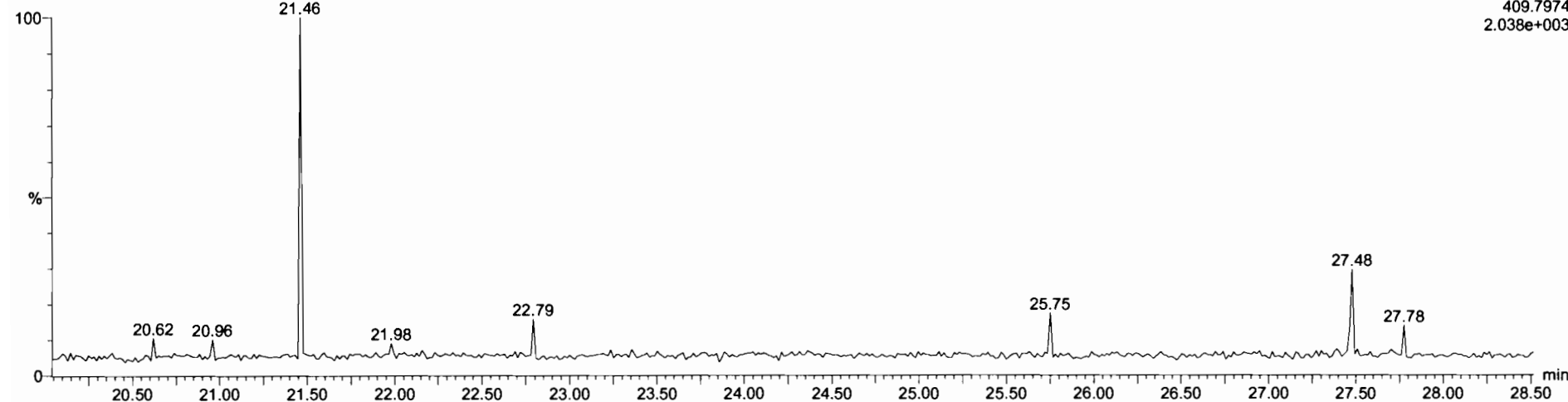


210602R1_1



DPE6

210602R1_1

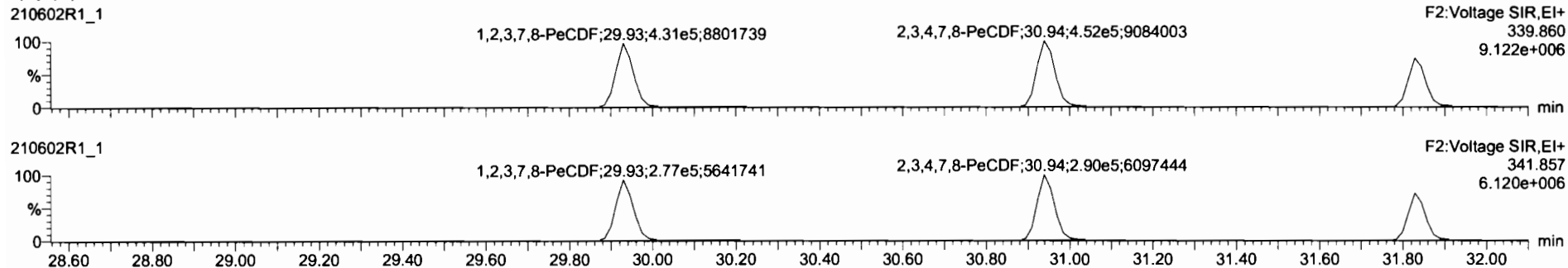


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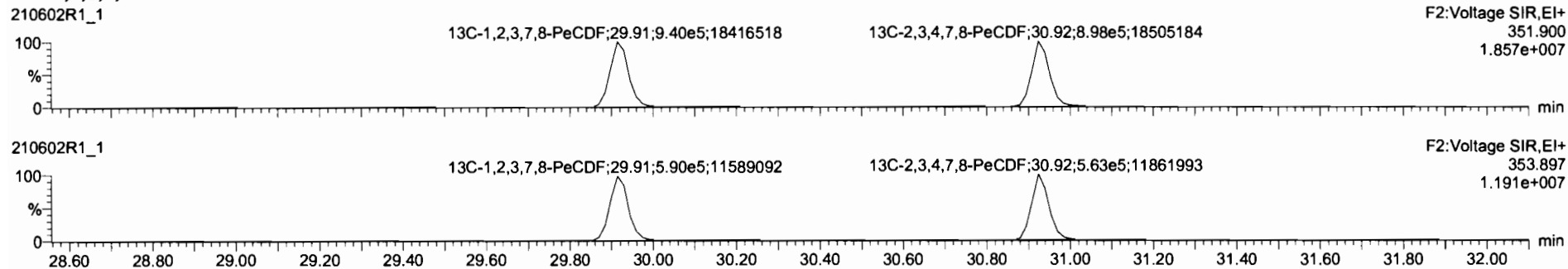
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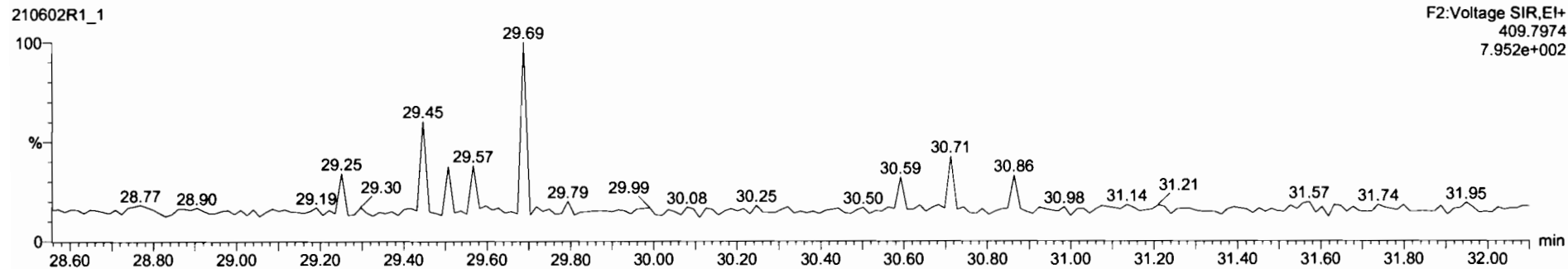
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13C-1,2,3,7,8-PeCDF



DPE2



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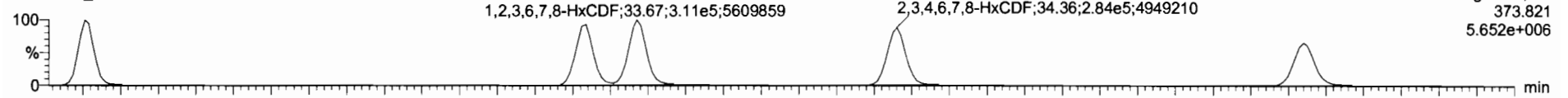
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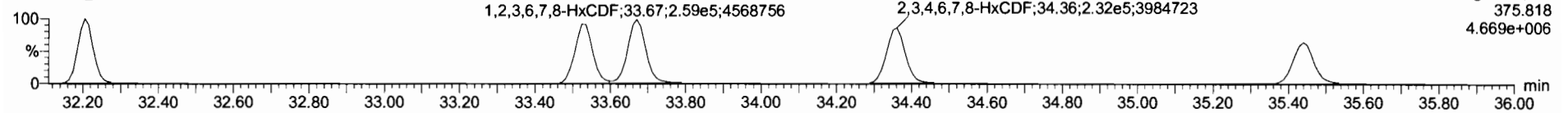
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1,2,3,4,7,8-HxCDF

210602R1_1

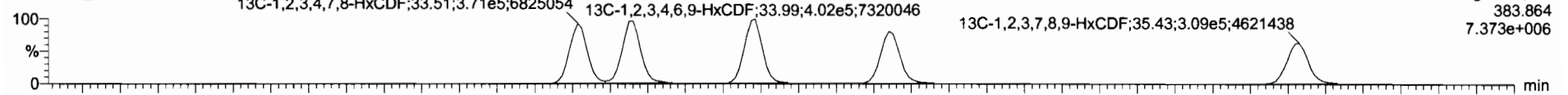


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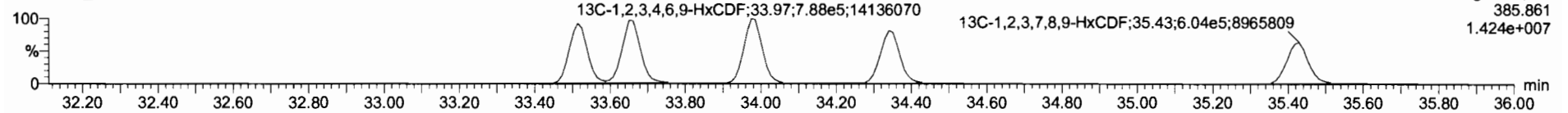


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210602R1_1

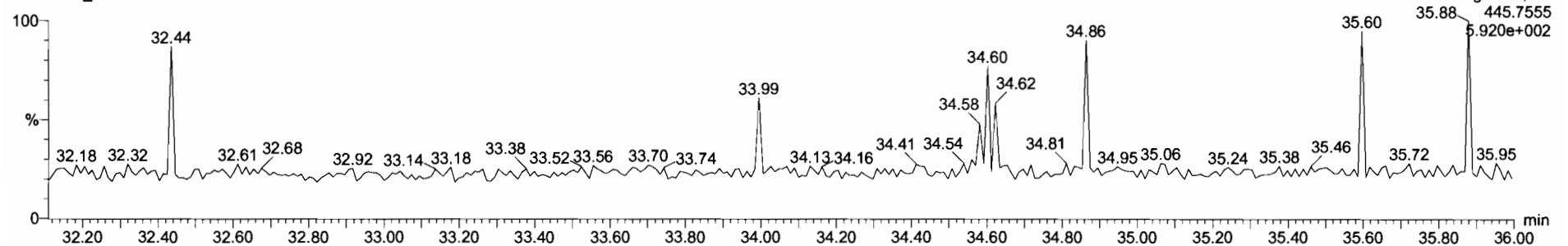


210602R1_1



DPE3

210602R1_1



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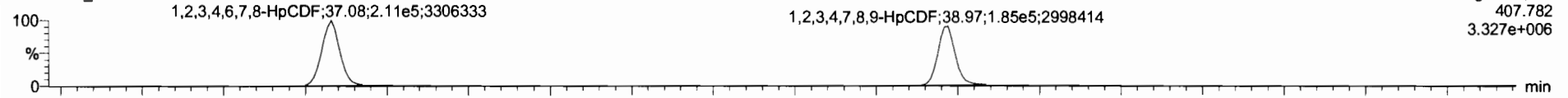
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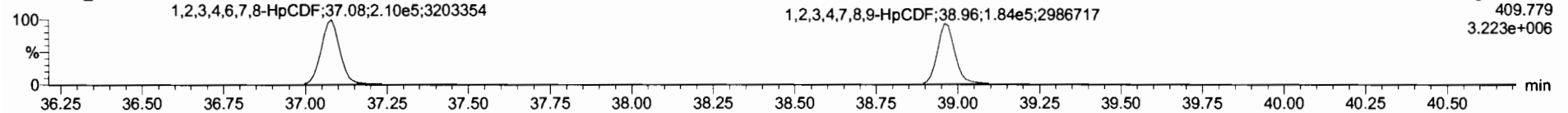
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210602R1_1

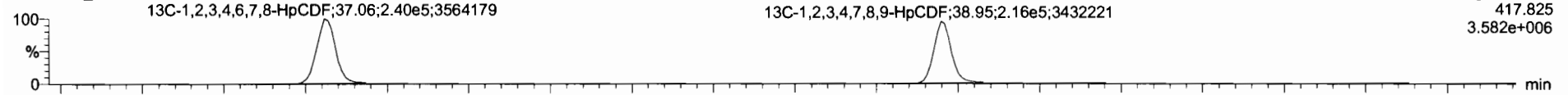


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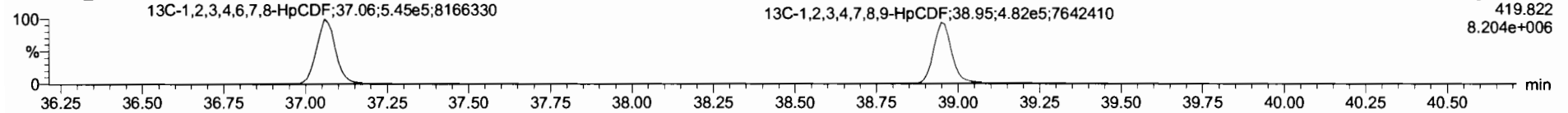


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210602R1_1

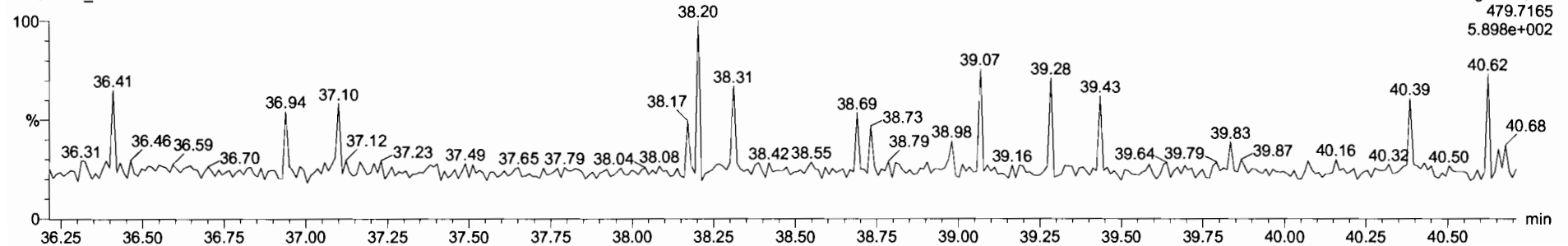


210602R1_1



DPE4

210602R1_1



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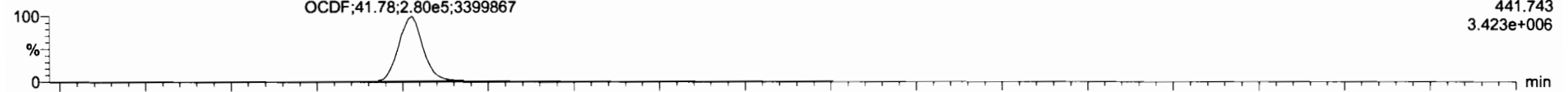
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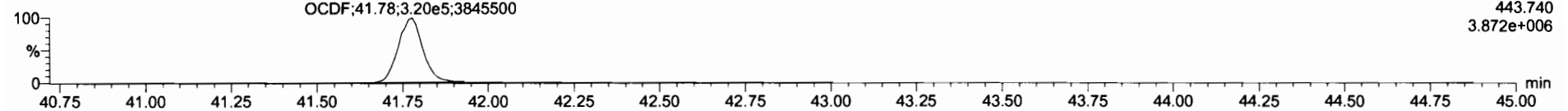
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OCDF

210602R1_1

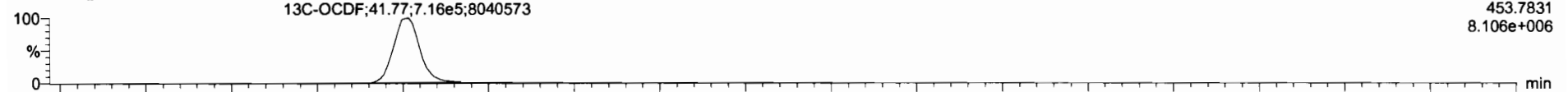


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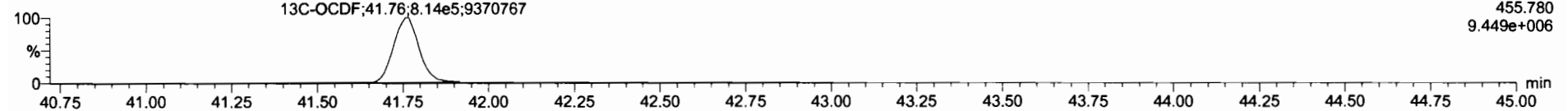


13C-OCDF

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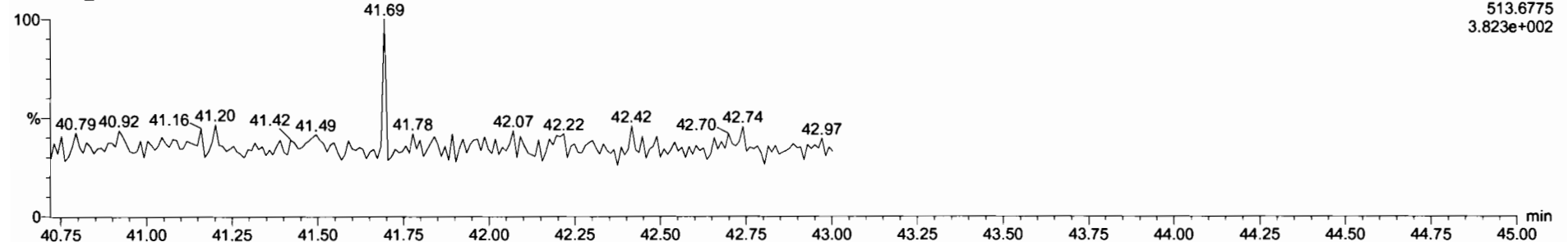


210602R1_1



DPE5

210602R1_1

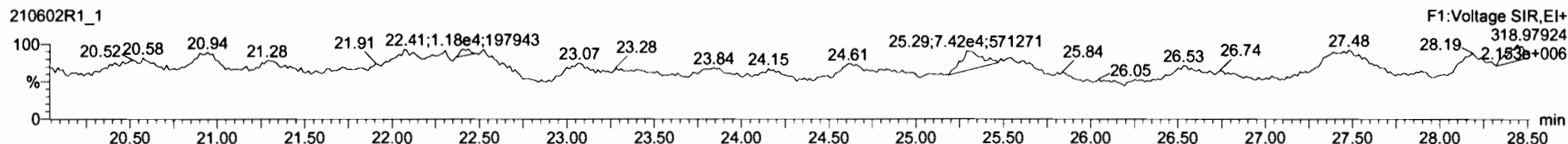


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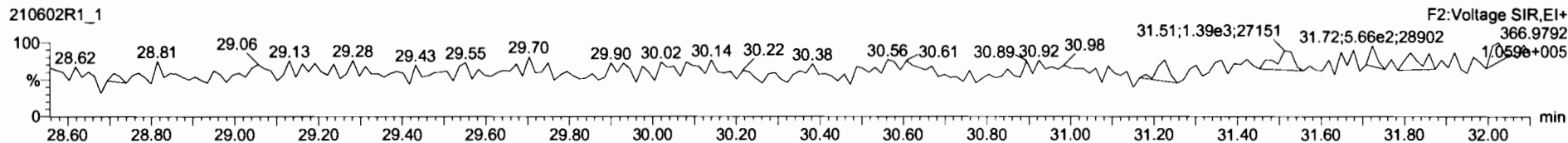
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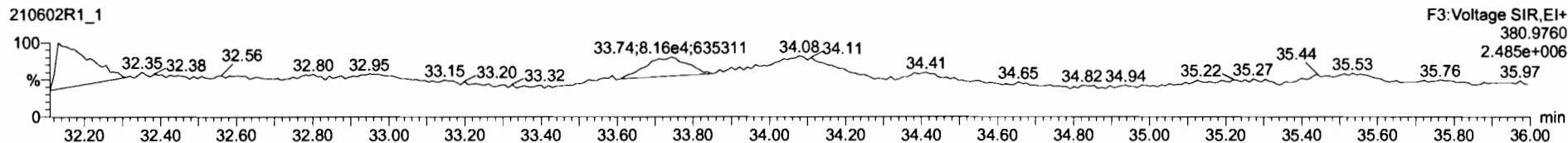
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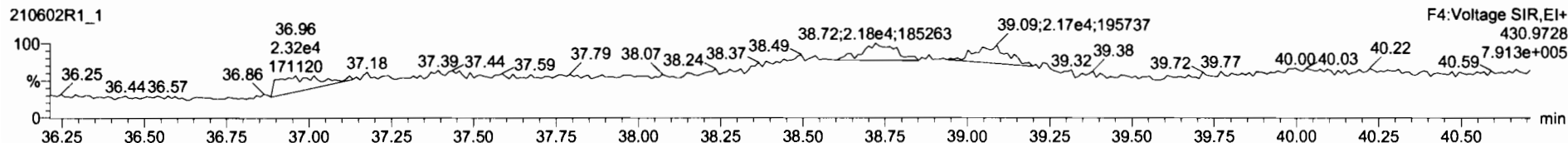
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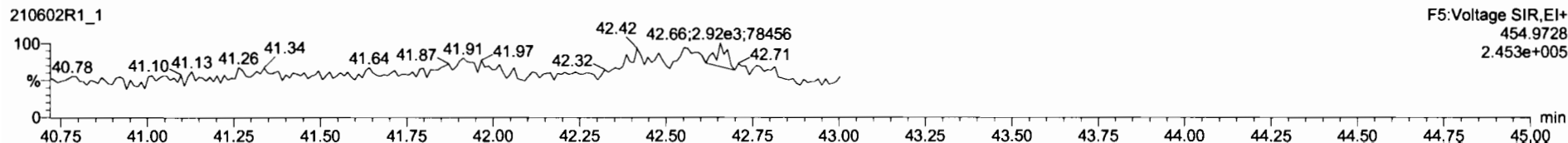
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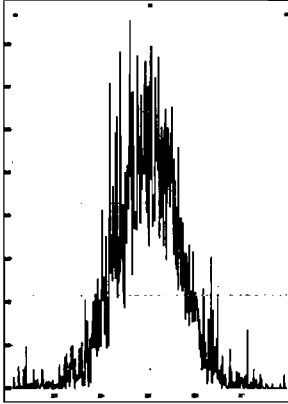


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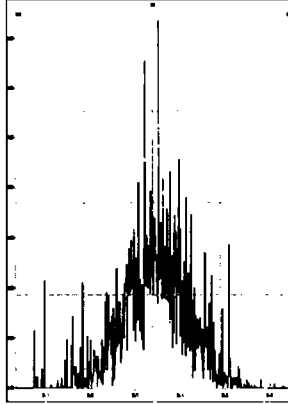


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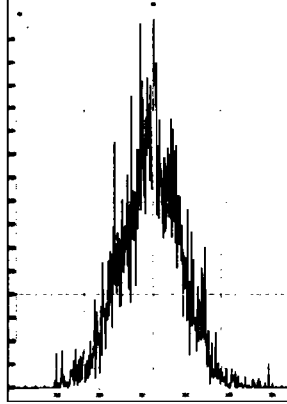
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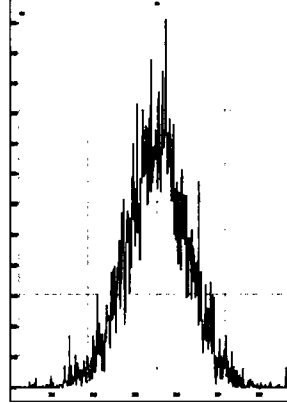
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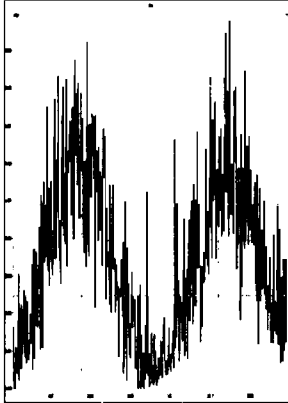
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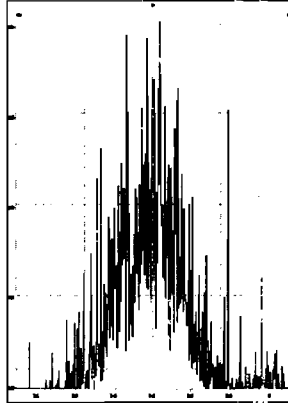
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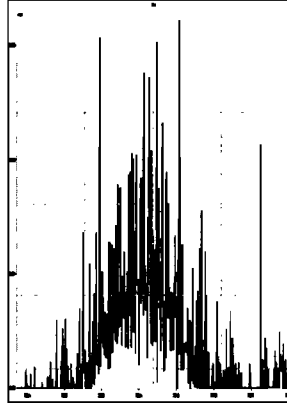
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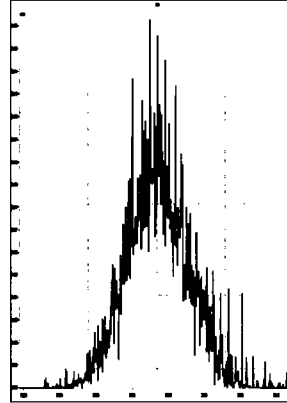
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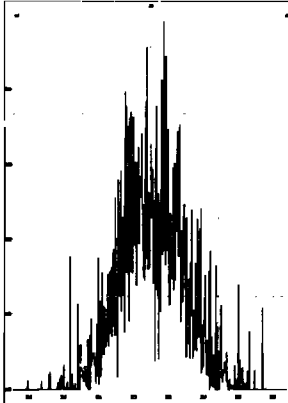
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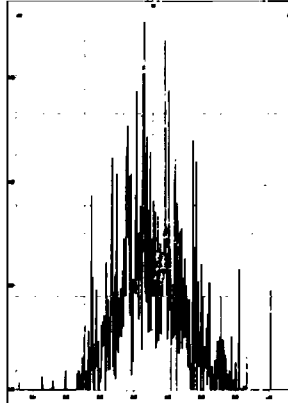
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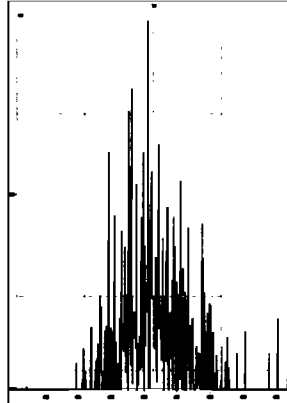
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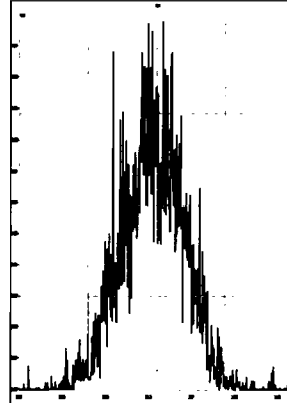
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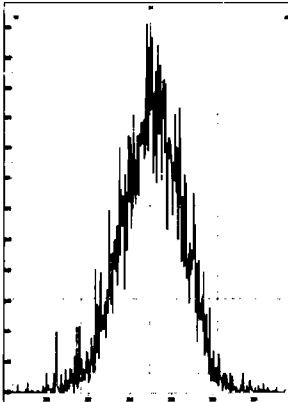
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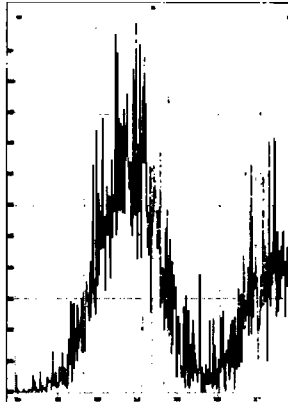
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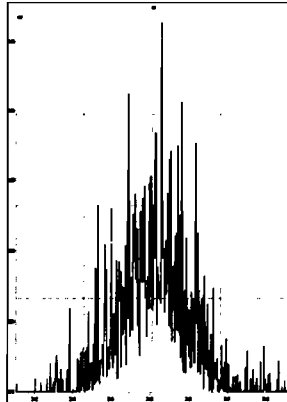
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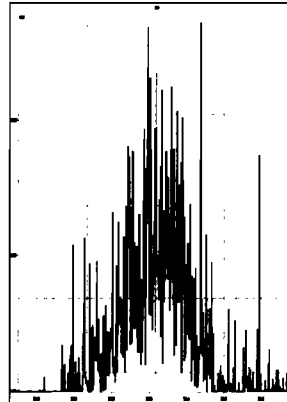
M 342.9792 R 11209



M 354.9792 R 15002

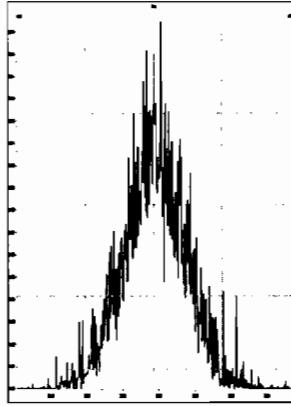


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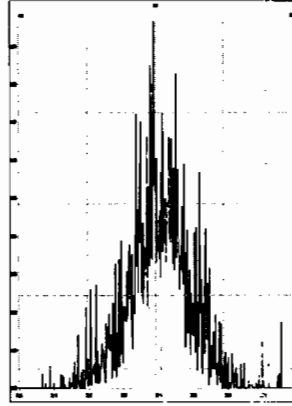


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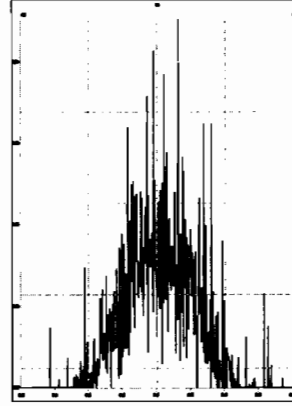
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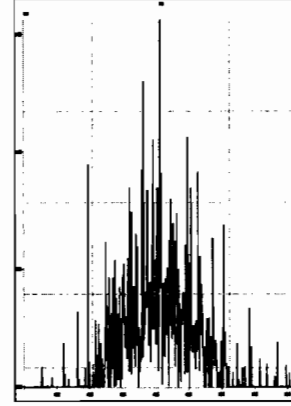
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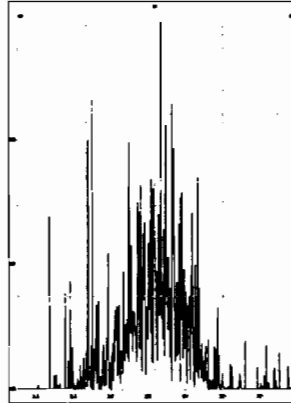
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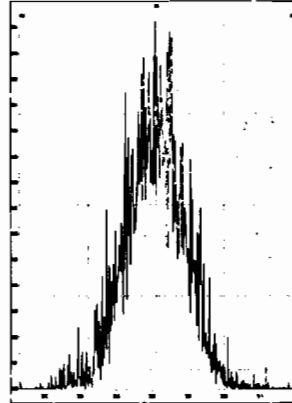
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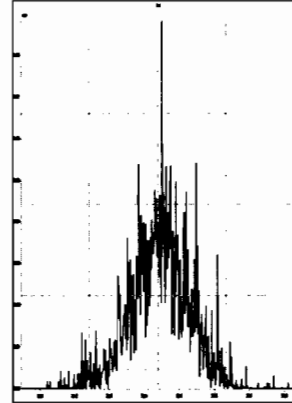
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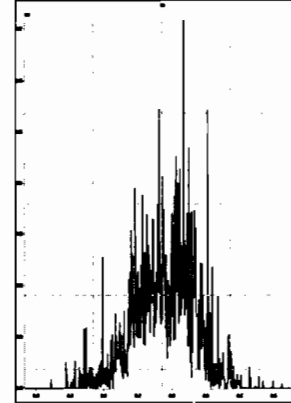
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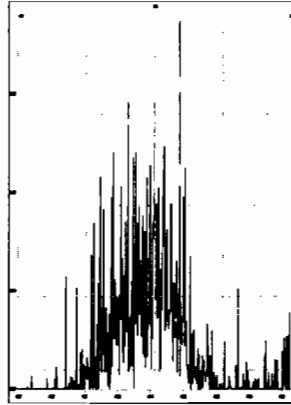
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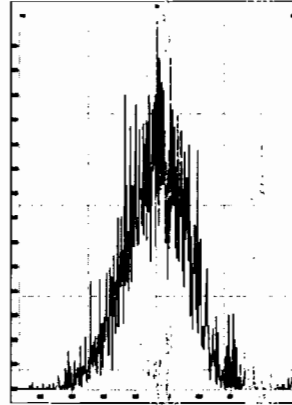
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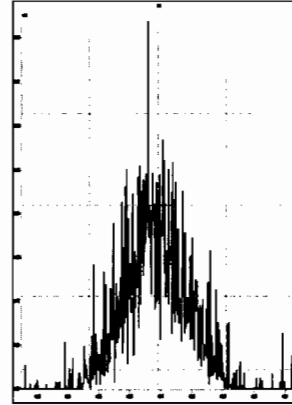
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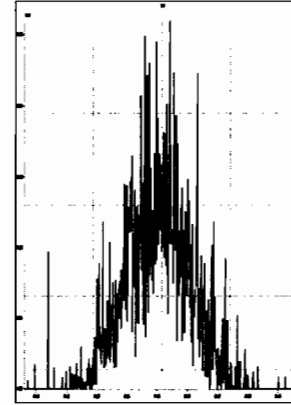
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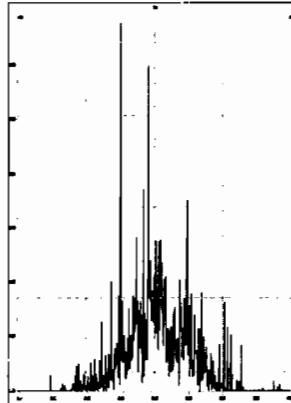
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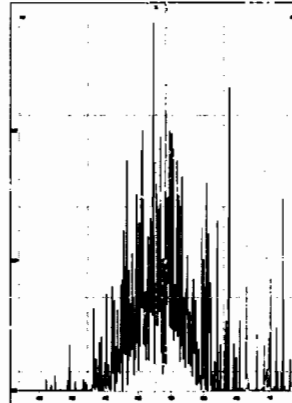
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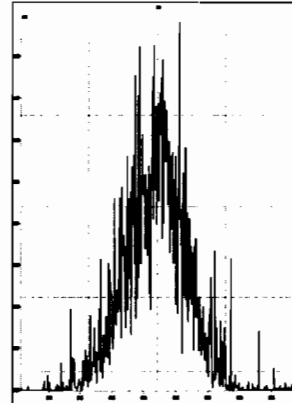
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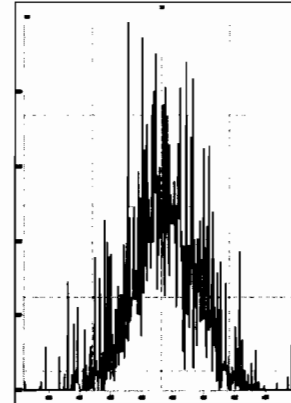
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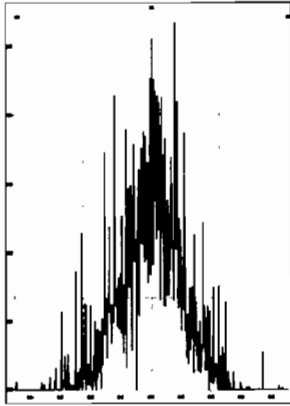


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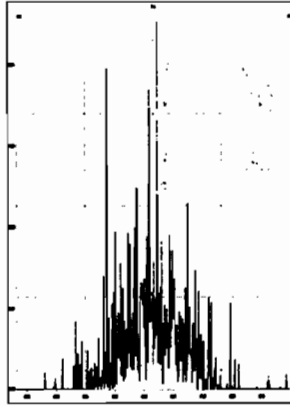


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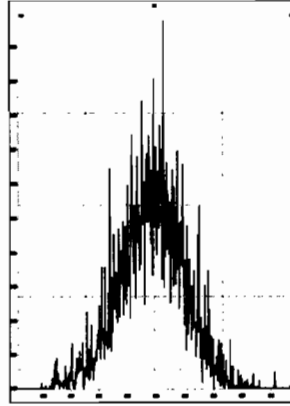
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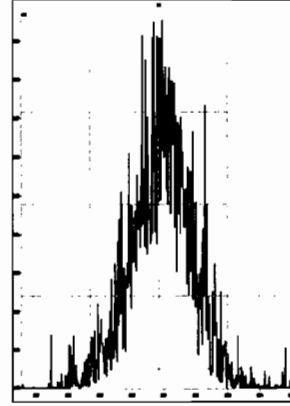
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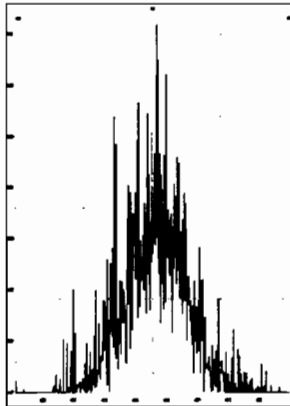
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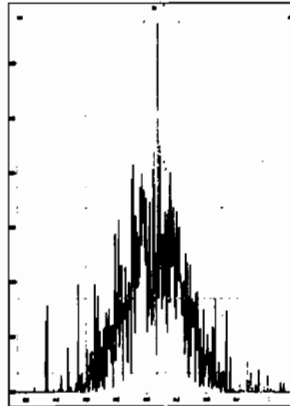
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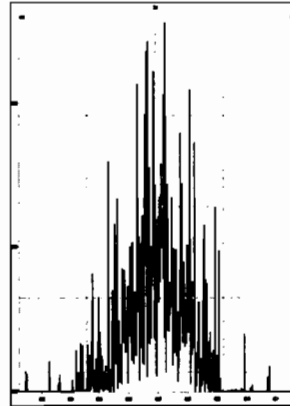
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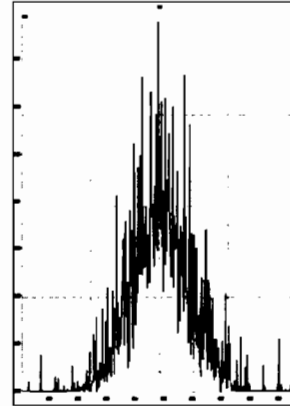
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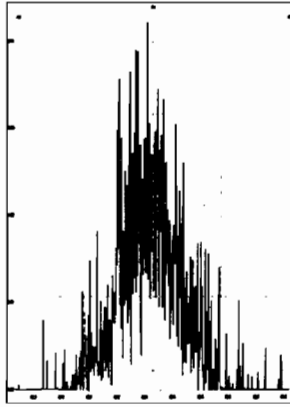
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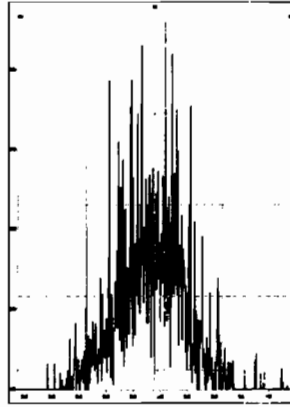
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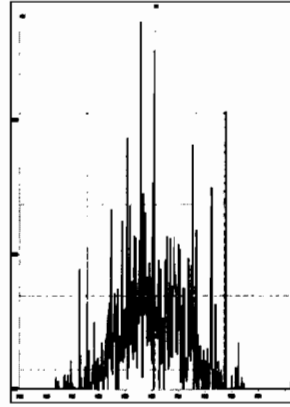
M 492.9696 R 14667



M 504.9696 R 16953



M 516.9697 R 136363



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: 57210604R 2_1

Reviewed By: DFH 06/08/21

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>HN</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> V
- Samples within 12 hour clock?	<u>Y</u>	<u>N</u>
- Bottle position verified?	<u>HN</u>	<input type="checkbox"/>

Mass resolution \geq

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> NA

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

NA

Comments:

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_1.qld

Last Altered: Friday, June 04, 2021 4:32:55 PM Pacific Daylight Time
Printed: Friday, June 04, 2021 4:33:08 PM Pacific Daylight Time

LN 06/04/21
DF 06/08/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.77e4	6.23e5	0.77	NO	0.929	26.71	26.71	NO	1.001	1.001	9.9749	99.7	NO
2	2 1,2,3,7,8-PeCDD	1.96e5	4.45e5	0.61	NO	0.826	31.14	31.12	NO	1.001	1.000	53.236	106	NO
3	3 1,2,3,4,7,8-HxCDD	1.61e5	3.20e5	1.27	NO	0.972	34.47	34.47	NO	1.001	1.001	51.670	103	NO
4	4 1,2,3,6,7,8-HxCDD	1.64e5	3.67e5	1.29	NO	0.877	34.59	34.59	NO	1.001	1.001	50.947	102	NO
5	5 1,2,3,7,8,9-HxCDD	1.66e5	3.67e5	1.26	NO	0.874	34.87	34.88	NO	1.000	1.001	51.654	103	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.20e5	2.67e5	1.04	NO	0.899	38.28	38.28	NO	1.000	1.000	49.985	100	NO
7	7 OCDD	1.86e5	4.35e5	0.88	NO	0.852	41.40	41.40	NO	1.000	1.000	100.46	100	NO
8	8 2,3,7,8-TCDF	6.31e4	8.88e5	0.74	NO	0.747	26.06	26.09	NO	1.000	1.001	9.5123	95.1	NO
9	9 1,2,3,7,8-PeCDF	2.82e5	6.36e5	1.60	NO	0.877	29.92	29.93	NO	1.000	1.001	50.593	101	NO
10	10 2,3,4,7,8-PeCDF	2.91e5	6.10e5	1.56	NO	0.962	30.95	30.94	NO	1.001	1.000	49.615	99.2	NO
11	11 1,2,3,4,7,8-HxCDF	2.04e5	4.37e5	1.24	NO	0.920	33.52	33.52	NO	1.000	1.000	50.611	101	NO
12	12 1,2,3,6,7,8-HxCDF	2.23e5	4.76e5	1.24	NO	0.936	33.67	33.67	NO	1.001	1.001	50.121	100	NO
13	13 2,3,4,6,7,8-HxCDF	1.95e5	4.03e5	1.21	NO	0.973	34.36	34.35	NO	1.001	1.000	49.806	99.6	NO
14	14 1,2,3,7,8,9-HxCDF	1.61e5	3.47e5	1.25	NO	0.940	35.43	35.44	NO	1.000	1.001	49.256	98.5	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.63e5	3.19e5	1.02	NO	1.05	37.07	37.07	NO	1.000	1.001	48.780	97.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.28e5	2.51e5	1.02	NO	1.05	38.96	38.96	NO	1.000	1.000	48.724	97.4	NO
17	17 OCDF	2.07e5	5.56e5	0.87	NO	0.771	41.72	41.74	NO	1.000	1.000	96.480	96.5	NO
18	18 13C-2,3,7,8-TCDD	6.23e5	5.60e5	0.77	NO	1.10	26.67	26.68	NO	1.027	1.027	100.74	101	NO
19	19 13C-1,2,3,7,8-PeCDD	4.45e5	5.60e5	0.64	NO	0.864	31.05	31.10	NO	1.196	1.198	92.098	92.1	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.20e5	4.67e5	1.30	NO	0.746	34.44	34.44	NO	1.014	1.014	91.809	91.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.67e5	4.67e5	1.27	NO	0.847	34.56	34.57	NO	1.017	1.018	92.776	92.8	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.67e5	4.67e5	1.27	NO	0.868	34.86	34.86	NO	1.026	1.026	90.512	90.5	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.67e5	4.67e5	1.06	NO	0.664	38.21	38.27	NO	1.125	1.126	85.975	86.0	NO
24	24 13C-OCDD	4.35e5	4.67e5	0.90	NO	0.561	41.15	41.39	NO	1.211	1.218	165.96	83.0	NO
25	25 13C-2,3,7,8-TCDF	8.88e5	8.61e5	0.78	NO	1.09	26.06	26.06	NO	1.003	1.003	94.317	94.3	NO
26	26 13C-1,2,3,7,8-PeCDF	6.36e5	8.61e5	1.61	NO	0.809	29.78	29.91	NO	1.147	1.152	91.280	91.3	NO
27	27 13C-2,3,4,7,8-PeCDF	6.10e5	8.61e5	1.63	NO	0.803	30.74	30.92	NO	1.184	1.191	88.168	88.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.37e5	4.67e5	0.50	NO	1.01	33.52	33.51	NO	0.987	0.986	92.508	92.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.76e5	4.67e5	0.49	NO	1.07	33.64	33.65	NO	0.990	0.990	94.916	94.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.03e5	4.67e5	0.49	NO	0.910	34.33	34.34	NO	1.011	1.011	94.917	94.9	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.47e5	4.67e5	0.49	NO	0.828	35.41	35.42	NO	1.042	1.043	89.702	89.7	NO

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_1.qld

Last Altered: Friday, June 04, 2021 4:32:55 PM Pacific Daylight Time

Printed: Friday, June 04, 2021 4:33:08 PM Pacific Daylight Time

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	3.19e5	4.67e5	0.42	NO	0.661	37.02	37.05	NO	1.090	1.090	103.30	103	NO
33	13C-1,2,3,4,7,8,9-HpCDF	2.51e5	4.67e5	0.42	NO	0.566	38.78	38.95	NO	1.141	1.146	94.890	94.9	NO
34	13C-OCDF	5.56e5	4.67e5	0.89	NO	0.663	41.54	41.71	NO	1.223	1.228	179.71	89.9	NO
35	37Cl-2,3,7,8-TCDD	1.17e5	5.60e5			2.07	26.87	26.71	NO	1.035	1.028	10.086	101	NO
36	13C-1,2,3,4-TCDD	5.60e5	5.60e5	0.78	NO	1.00	26.07	25.97	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	8.61e5	8.61e5	0.79	NO	1.00	24.76	24.66	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	4.67e5	4.67e5	0.50	NO	1.00	34.04	33.97	NO	1.000	1.000	100.00	100	YES

OK

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Saturday, June 05, 2021 10:19:17 AM Pacific Daylight Time

Printed: Saturday, June 05, 2021 10:19:45 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

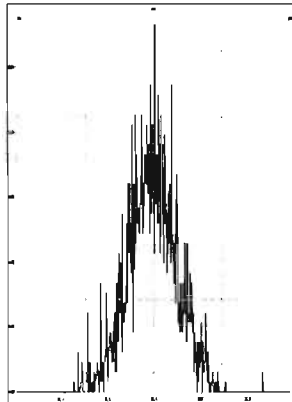
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	210604R2_1	ST210604R2_1 1613 CS3 21C0105	04-Jun-21	10:24:25
2	210604R2_2	SOLVENT BLANK	04-Jun-21	11:12:12
3	210604R2_3	B1E0215-BLK1 Method Blank 1	04-Jun-21	11:58:53
4	210604R2_4	B1F0002-BLK1 Method Blank 1	04-Jun-21	12:44:17
5	210604R2_5	B1E0227-BLK1 Method Blank 10	04-Jun-21	13:30:13
6	210604R2_6	2105042-05 USMPDI-1028SC-A-02-03-21050...	04-Jun-21	14:16:55
7	210604R2_7	2105042-06 USMPDI-031SC-A-01-02-210504 ...	04-Jun-21	15:02:11
8	210604R2_8	2105022-01 USMPDI-015SC-A-06-07-210501 ...	04-Jun-21	15:48:00
9	210604R2_9	2105022-02 USMPDI-015SC-A-07-7.6-210501...	04-Jun-21	16:34:48
10	210604R2_10	2105022-03 USMPDI-016SC-A-09-10-210501 ...	04-Jun-21	17:19:52
11	210604R2_11	2105022-04 USMPDI-016SC-A-10-10.9-21050...	04-Jun-21	18:06:04
12	210604R2_12	2105022-05 USMPDI-036SC-A-10-11-210501 ...	04-Jun-21	18:50:20
13	210604R2_13	2105022-06 USMPDI-036SC-A-11-12.1-21050...	04-Jun-21	19:34:35
14	210604R2_14	2105022-07 USMPDI-037SC-A-10-11-210501 ...	04-Jun-21	20:18:50
15	210604R2_15	2105022-08 USMPDI-037SC-A-11-12.1-21050...	04-Jun-21	21:03:05

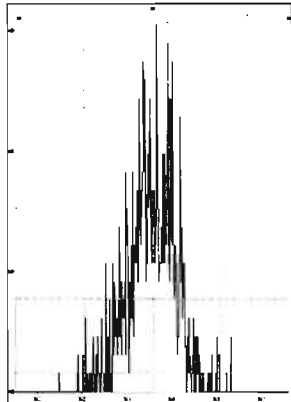
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, June 04, 2021 10:21:26 Pacific Daylight Time

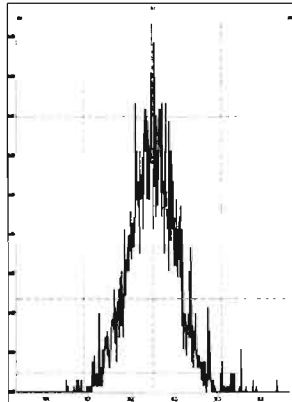
M 292.9824 R 14797



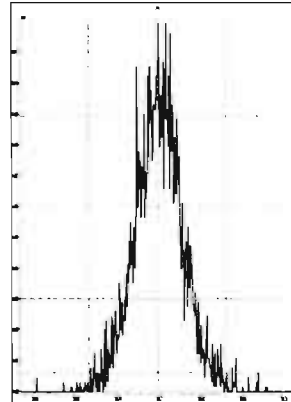
M 304.9824 R 17242



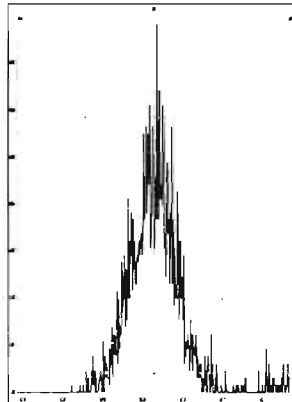
M 318.9792 R 13226



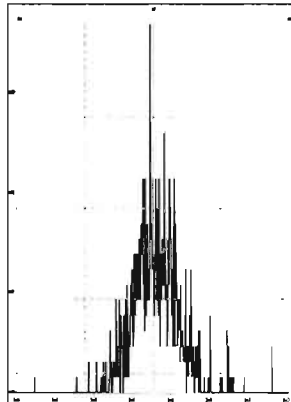
M 330.9792 R 13293



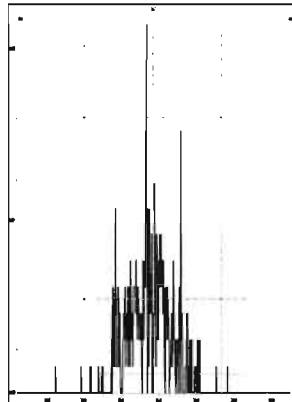
M 342.9792 R 14969



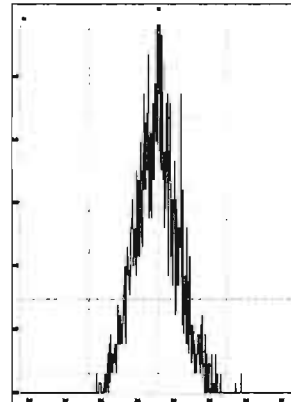
M 354.9792 R 15240



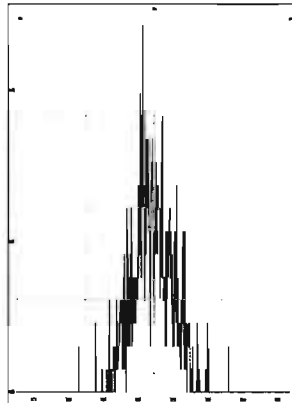
M 366.9792 R 23584



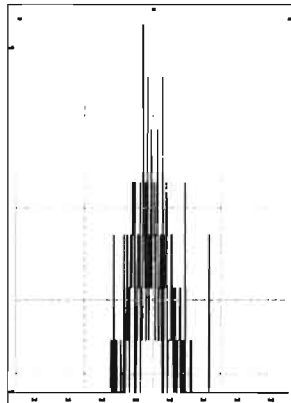
M 380.9760 R 14709



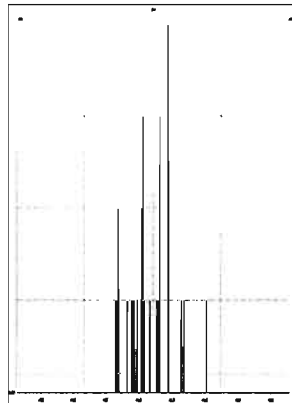
M 392.9760 R 18116



M 404.9760 R 51031



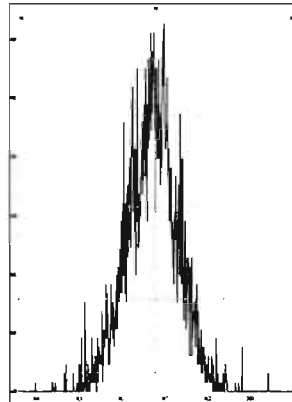
M 416.9760 R 357158



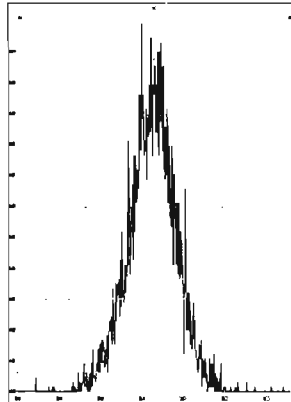
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, June 04, 2021 10:22:14 Pacific Daylight Time

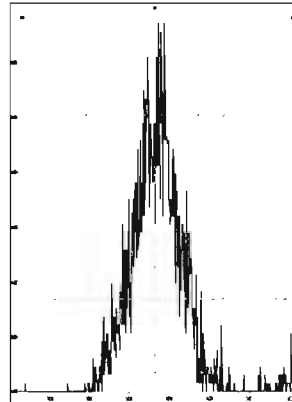
M 318.9792 R 13439



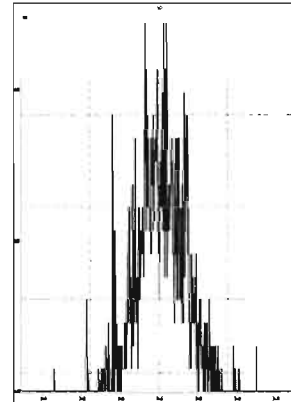
M 330.9792 R 12888



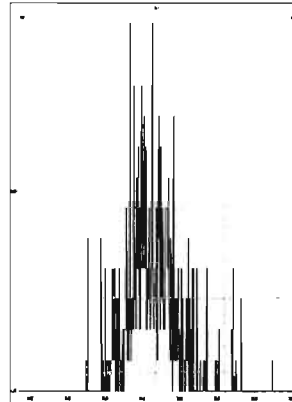
M 342.9792 R 14284



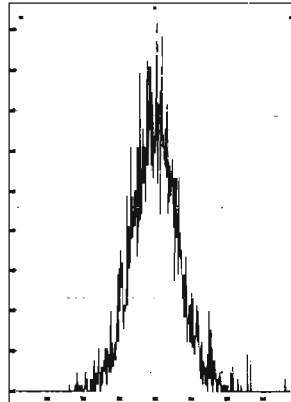
M 354.9792 R 16028



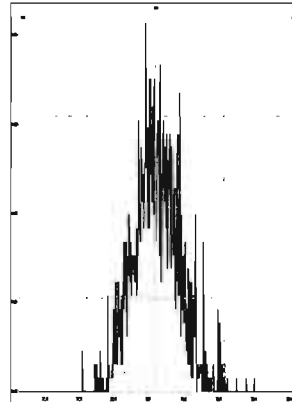
M 366.9792 R 20160



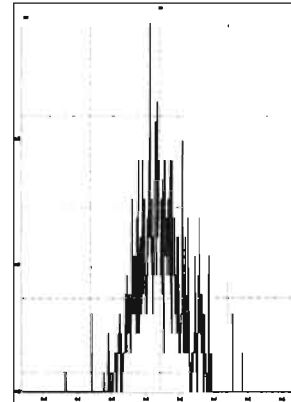
M 380.9760 R 14288



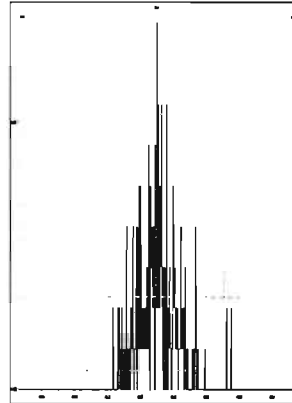
M 392.9760 R 15625



M 404.9760 R 17989



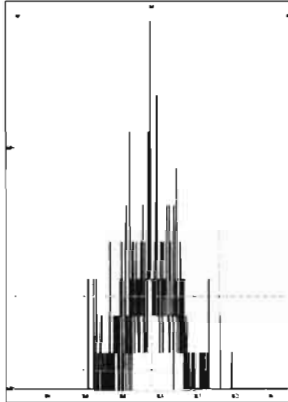
M 416.9760 R 33784



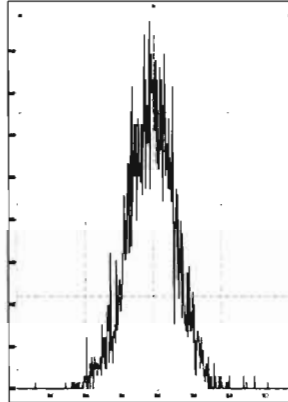
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Printed: Friday, June 04, 2021 10:22:55 Pacific Daylight Time

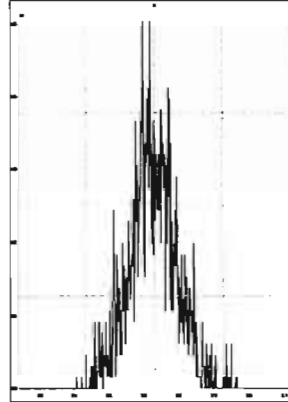
M 366.9792 R 22729



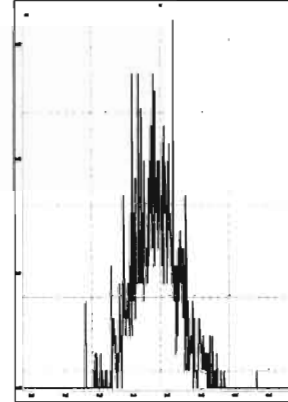
M 380.9760 R 13231



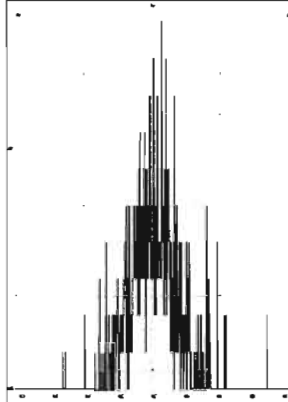
M 392.9760 R 13299



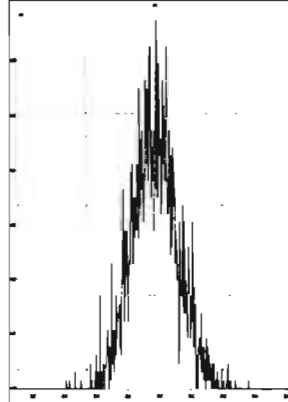
M 404.9760 R 17360



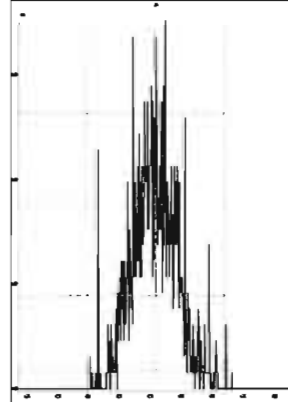
M 416.9760 R 19382



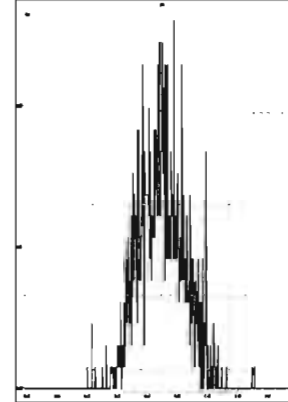
M 430.9728 R 15723



M 442.9728 R 17609



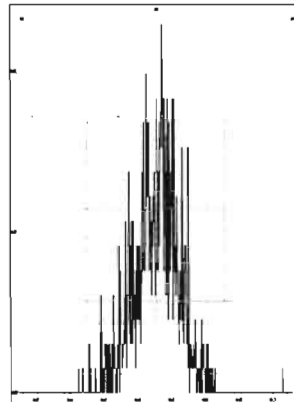
M 454.9728 R 15823



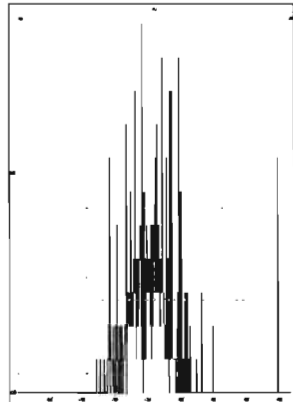
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Printed: Friday, June 04, 2021 10:23:17 Pacific Daylight Time

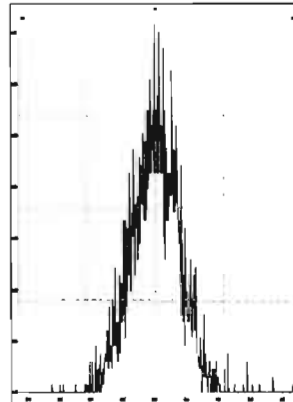
M 404.9760 R 15151



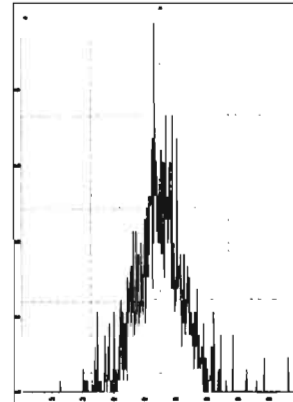
M 416.9760 R 20004



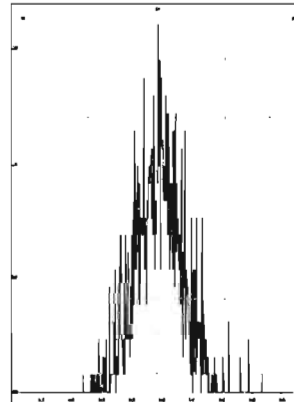
M 430.9728 R 14045



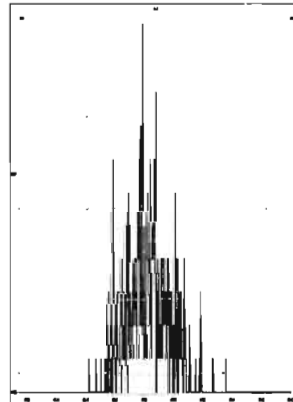
M 442.9728 R 15341



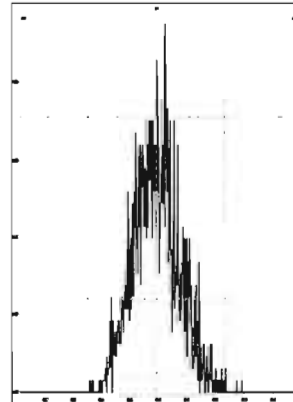
M 454.9728 R 17987



M 466.9728 R 19378



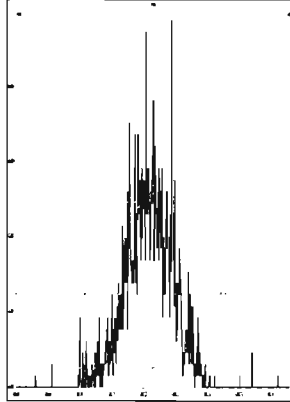
M 480.9696 R 13963



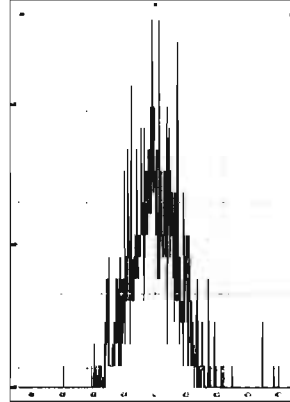
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, June 04, 2021 10:23:38 Pacific Daylight Time

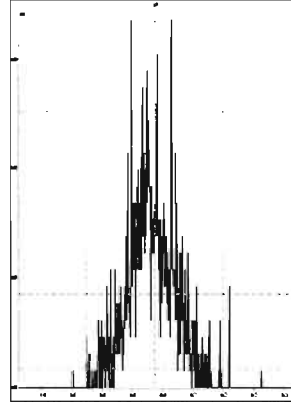
M 430.9728 R 13439



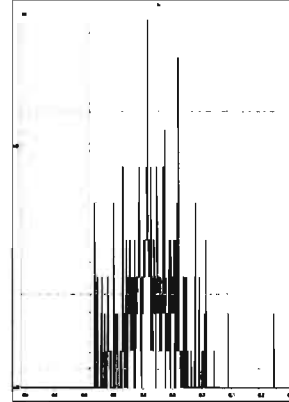
M 442.9728 R 15148



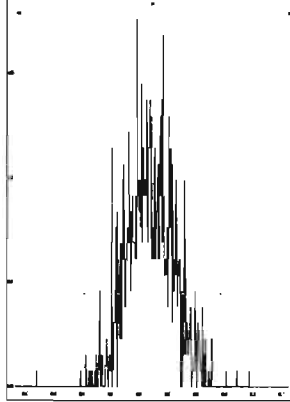
M 454.9728 R 17735



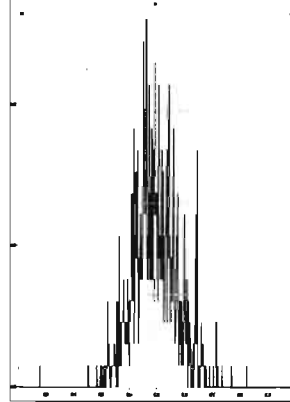
M 466.9728 R 39688



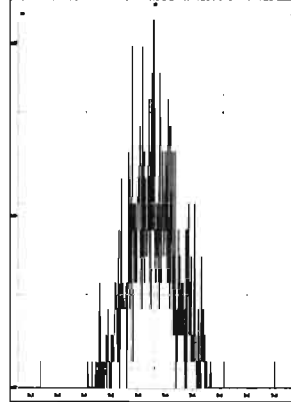
M 480.9696 R 21186



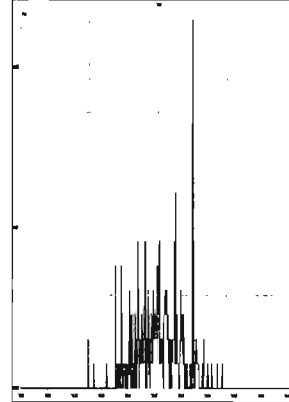
M 492.9696 R 17728



M 504.9696 R 28091



M 516.9697 R 42369



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_CPSM.qld

Last Altered: Friday, June 04, 2021 4:24:16 PM Pacific Daylight Time

Printed: Friday, June 04, 2021 4:25:02 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1,3,6,8-TCDD (First)	23.28
2	1,2,8,9-TCDD (Last)	27.52
3	1,2,4,7,9-PeCDD (First)	28.95
4	1,2,3,8,9-PeCDD (Last)	31.45
5	1,2,4,6,7,9-HxCDD (First)	32.74
6	1,2,3,7,8,9-HxCDD (Last)	34.88
7	1,2,3,4,6,7,9-HpCDD (First)	37.40
8	1,2,3,4,6,7,8-HpCDD (Last)	38.28
9	1,3,6,8-TCDF (First)	21.18
10	1,2,8,9-TCDF (Last)	27.85
11	1,3,4,6,8-PeCDF (First)	27.39
12	1,2,3,8,9-PeCDF (Last)	31.83
13	1,2,3,4,6,8-HxCDF (First)	32.20
14	1,2,3,7,8,9-HxCDF (Last)	35.44
15	1,2,3,4,6,7,8-HpCDF (First)	37.07
16	1,2,3,4,7,8,9-HpCDF (Last)	38.96

Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_CPSM.qld

Last Altered: Friday, June 04, 2021 4:24:16 PM Pacific Daylight Time

Printed: Friday, June 04, 2021 4:25:02 PM Pacific Daylight Time

LN 06/04/21

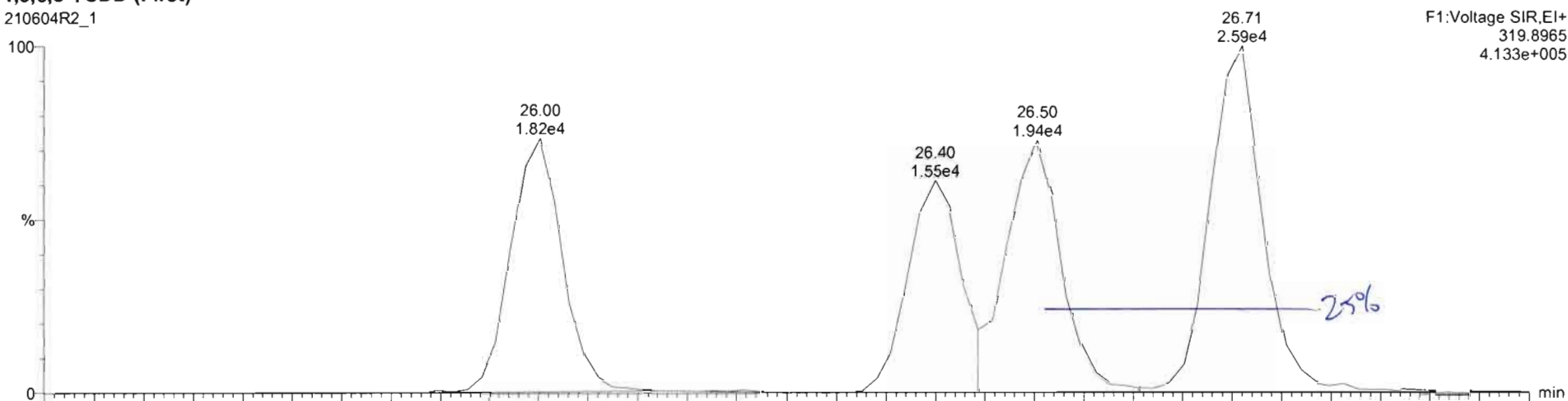
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

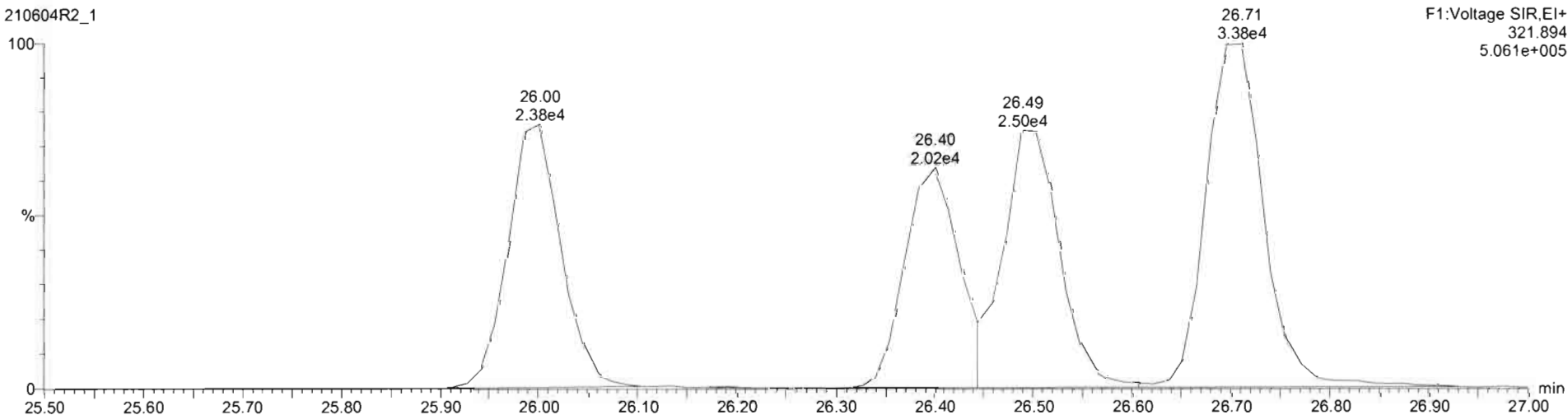
Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDD (First)

210604R2_1



210604R2_1



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_CPSM.qld

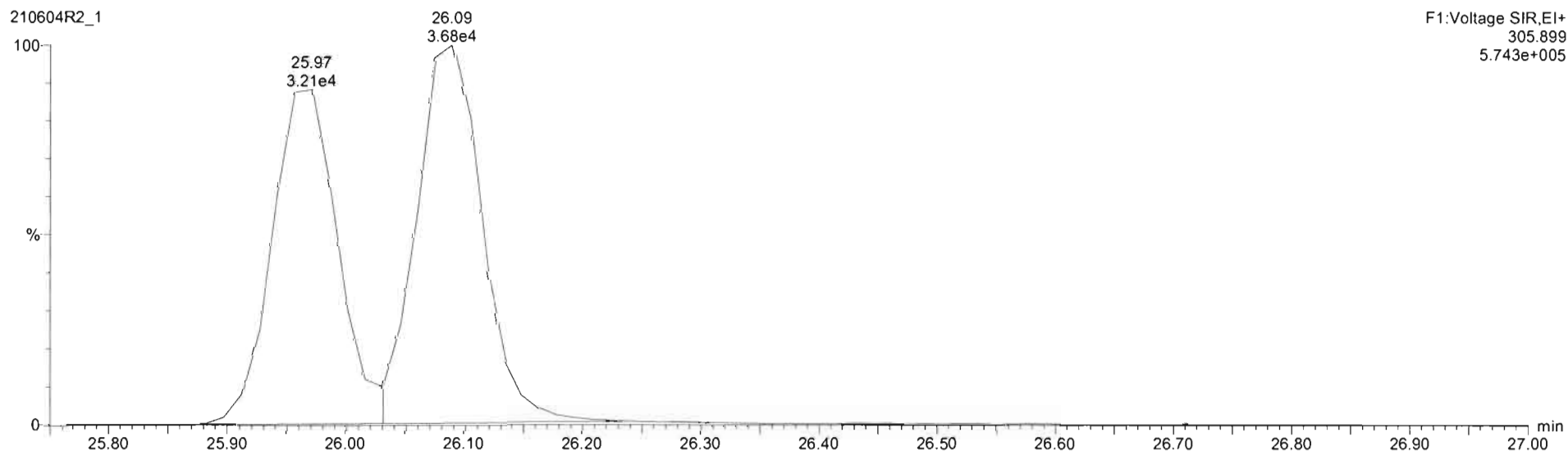
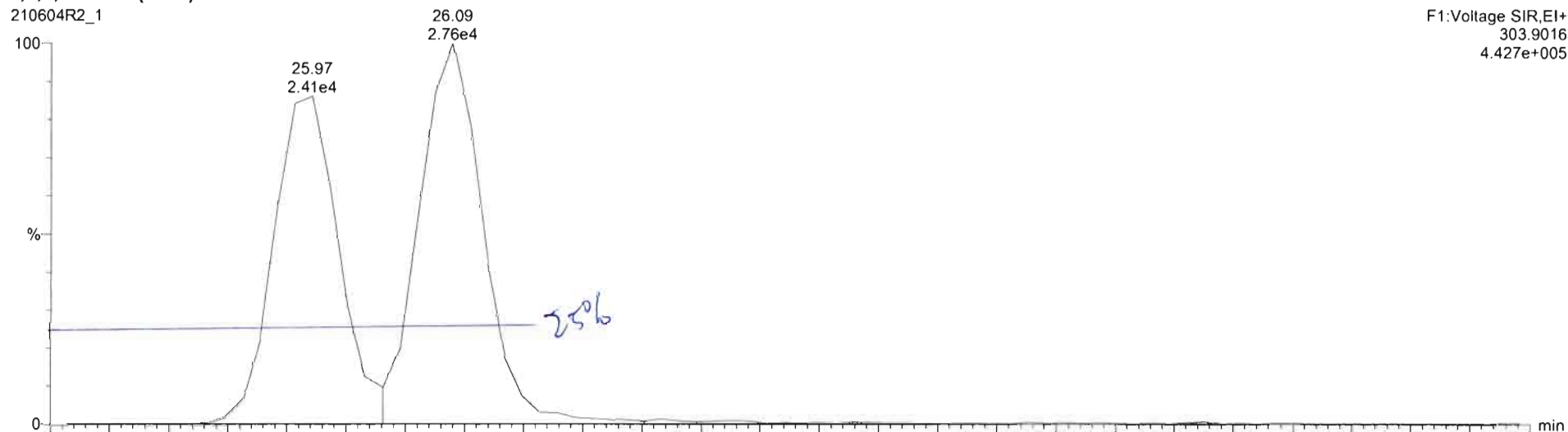
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Printed: Friday, June 04, 2021 4:25:02 PM Pacific Daylight Time

HN 06/04/21

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDF (First)



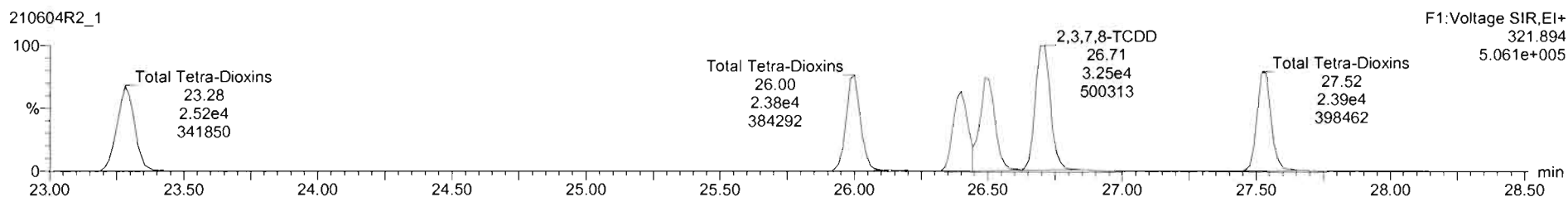
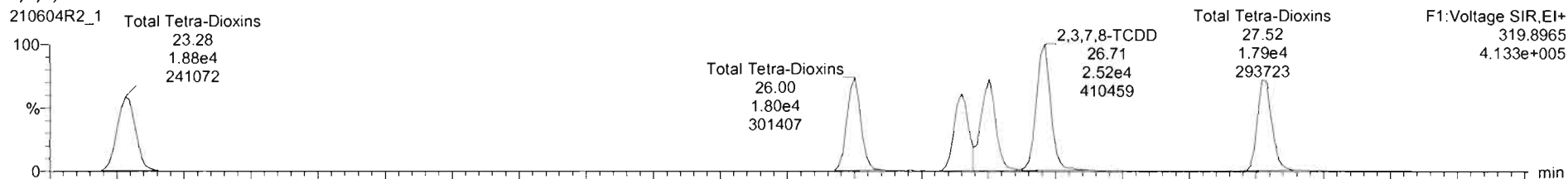
Dataset: U:\VG12.PRO\Results\210604R2\210604R2_1.qld

Last Altered: Friday, June 04, 2021 4:23:35 PM Pacific Daylight Time
Printed: Friday, June 04, 2021 4:25:19 PM Pacific Daylight Time

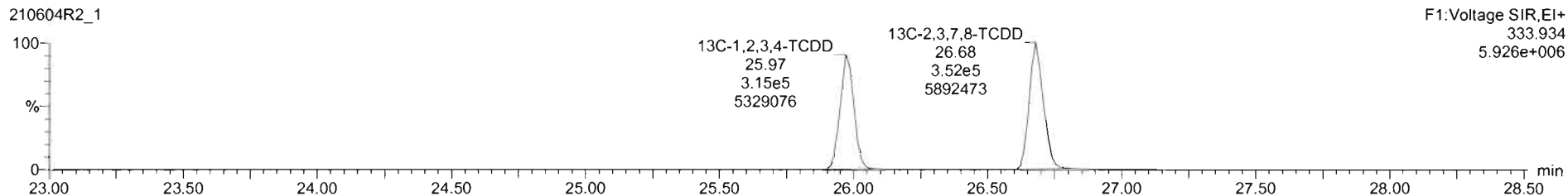
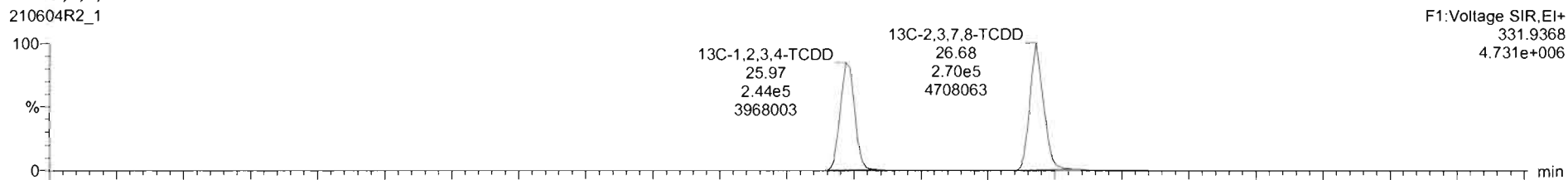
Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD



13C-2,3,7,8-TCDD



Dataset: U:\VG12.PRO\Results\210604R2\210604R2_1.qld

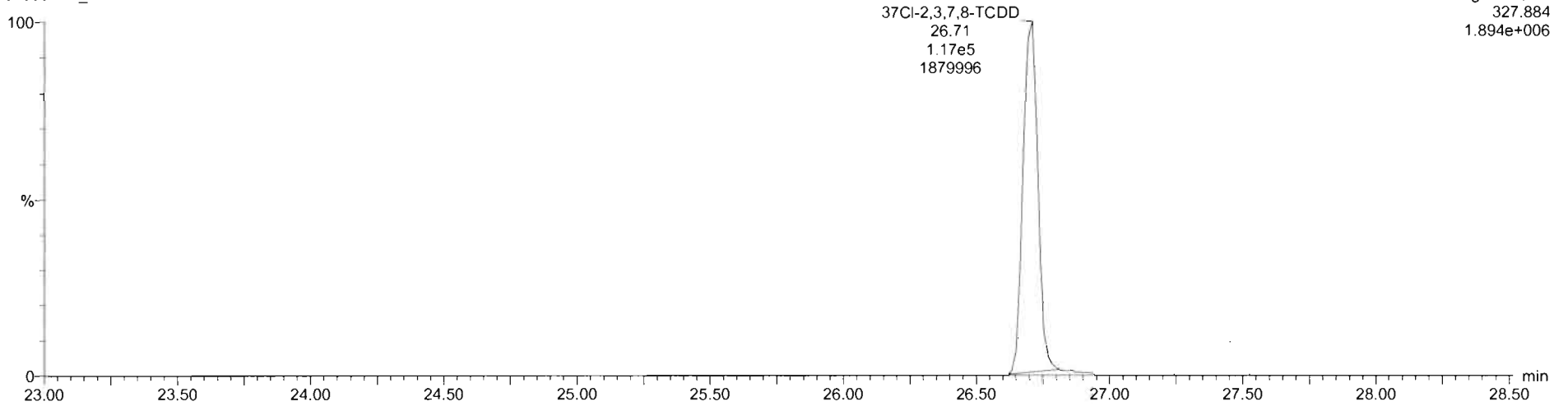
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Printed: Friday, June 04, 2021 4:25:19 PM Pacific Daylight Time

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

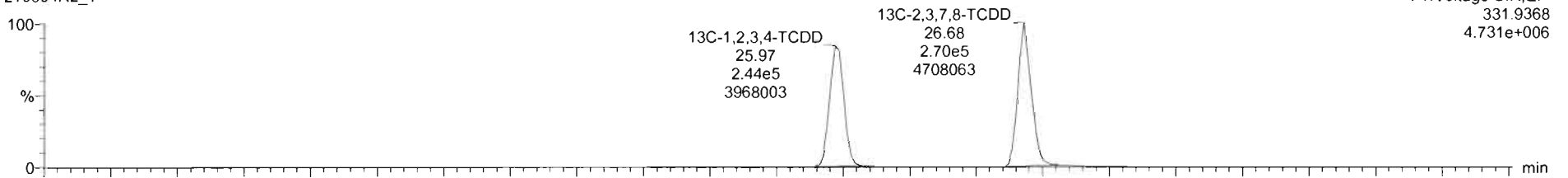
37Cl-2,3,7,8-TCDD

210604R2_1

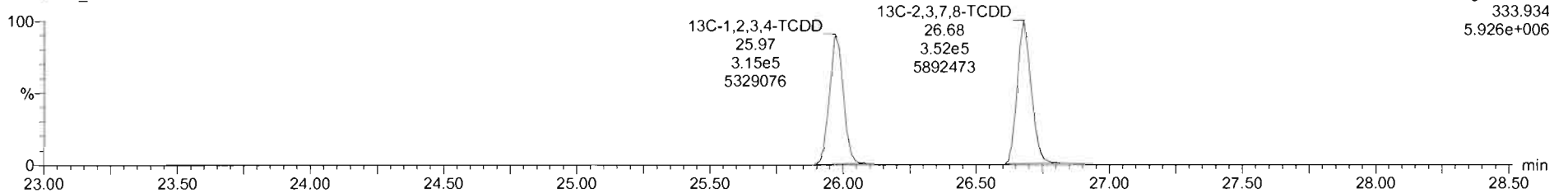


13C-1,2,3,4-TCDD

210604R2_1



210604R2_1



Dataset: U:\VG12.PRO\Results\210604R2\210604R2_1.qld

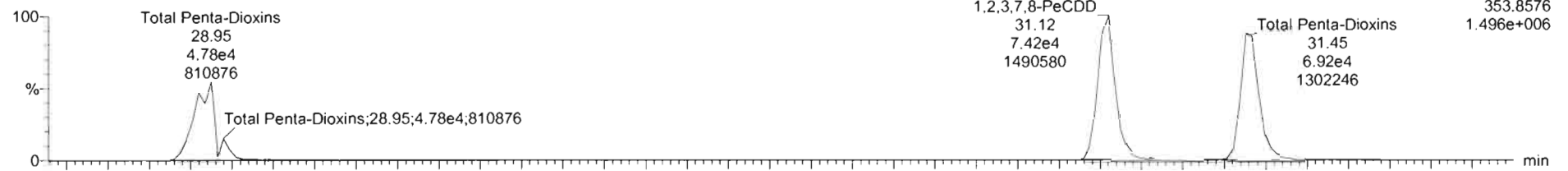
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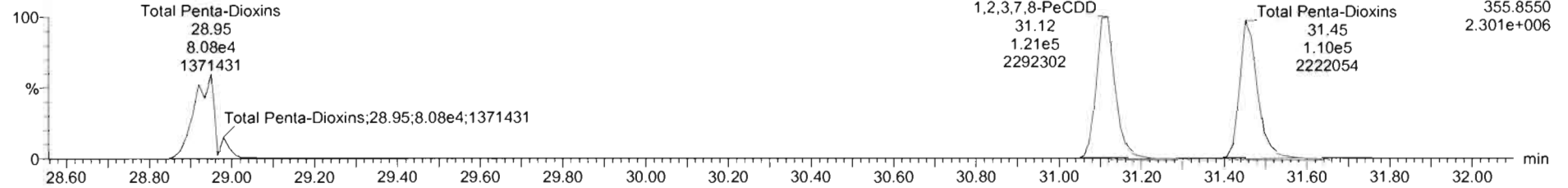
Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,7,8-PeCDD

210604R2_1

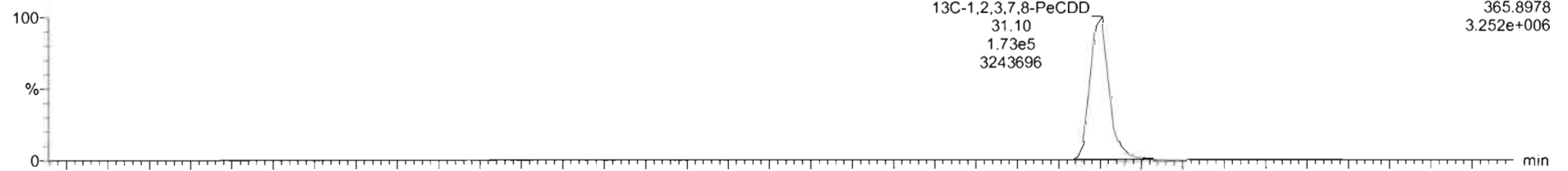


210604R2_1

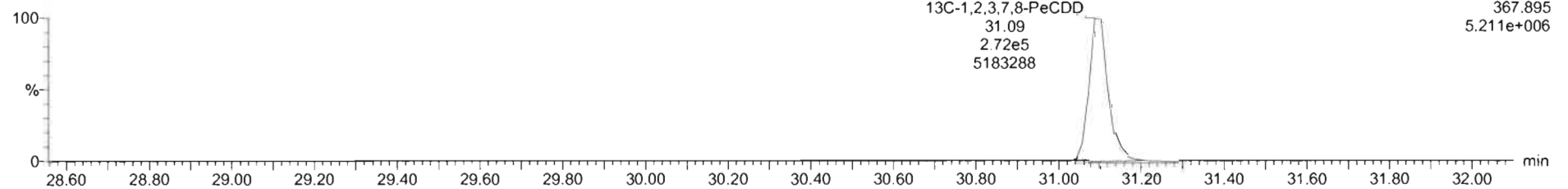


13C-1,2,3,7,8-PeCDD

210604R2_1



210604R2_1

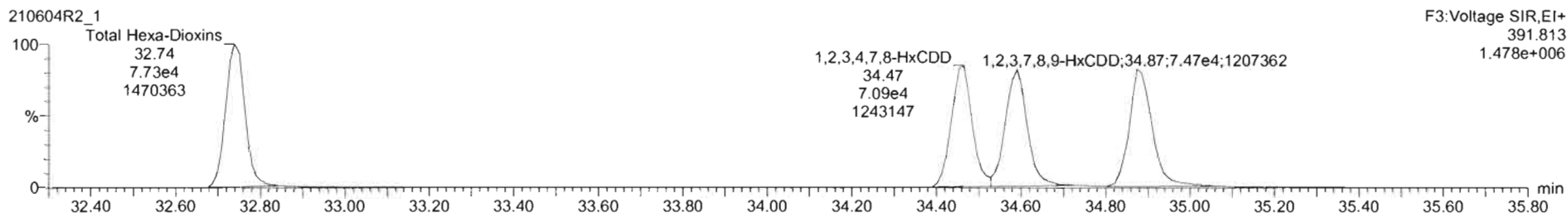
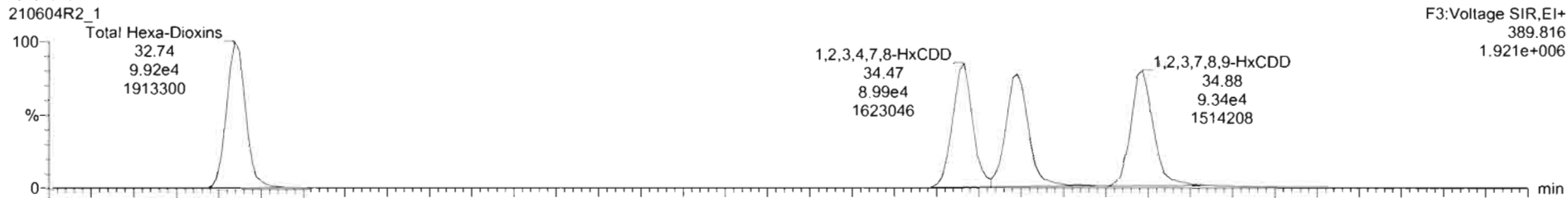


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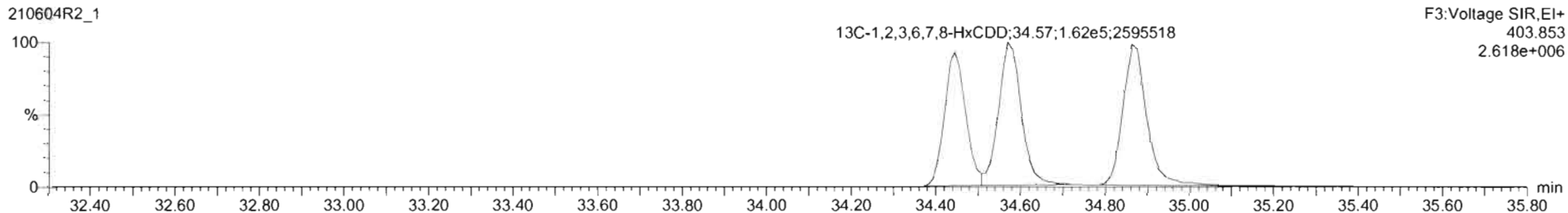
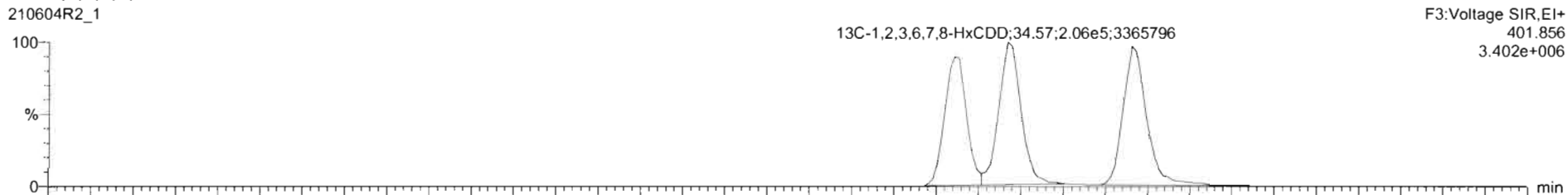
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Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,4,7,8-HxCDD



13C-1,2,3,4,7,8-HxCDD



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	5.77e4	8.23e5	0.77	0.77	NO	0.9291	26.71	26.71	NO	1.001	1.001	9.97	99.7	NO
2	1,2,3,7,8-PeCDD	1.96e5	4.45e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	53.2	106	NO
3	1,2,3,4,7,8-HxCDD	1.61e5	3.20e5	1.24	1.27	NO	0.8725	34.47	34.47	NO	1.001	1.001	51.7	103	NO
4	1,2,3,6,7,8-HxCDD	1.64e5	3.67e5	1.24	1.29	NO	0.8771	34.59	34.59	NO	1.001	1.001	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	1.66e5	3.87e5	1.24	1.26	NO	0.8739	34.87	34.88	NO	1.000	1.001	51.7	103	NO
6	1,2,3,4,6,7,8-HpCDD	1.21e5	2.97e5	1.04	1.06	NO	0.8987	38.28	38.28	NO	1.000	1.000	50.5	101	NO
7	OCDD	1.92e5	4.39e5	0.89	0.86	NO	0.8524	41.40	41.40	NO	1.000	1.000	102	102	NO
8	1,2,3,7,8-TCDF	6.31e4	8.88e5	0.77	0.74	NO	0.7466	26.06	26.09	NO	1.000	1.001	9.51	95.1	NO
9	1,2,3,7,8-PeCDF	2.82e5	6.36e5	1.55	1.60	NO	0.8771	29.92	29.93	NO	1.000	1.001	50.6	101	NO
10	1,2,3,4,7,8-PeCDF	2.91e5	8.10e5	1.55	1.56	NO	0.8621	30.95	30.94	NO	1.001	1.000	49.6	99.2	NO
11	1,2,3,4,7,8-HxCDF	2.04e5	4.37e5	1.24	1.24	NO	0.9202	33.52	33.52	NO	1.000	1.000	50.6	101	NO
12	1,2,3,6,7,8-HxCDF	2.72e5	4.75e5	1.24	1.24	NO	0.9363	33.67	33.67	NO	1.001	1.001	50.1	100	NO



Dataset: U:\VG12.PRO\Results\210604R2\210604R2_1.qld

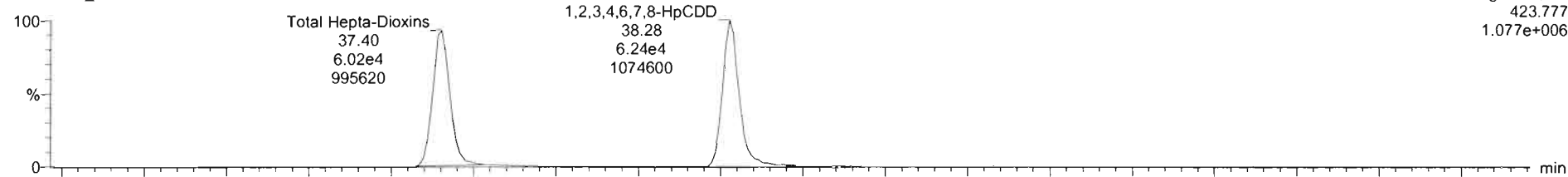
Last Altered: Friday, June 04, 2021 4:23:35 PM Pacific Daylight Time

Printed: Friday, June 04, 2021 4:25:19 PM Pacific Daylight Time

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

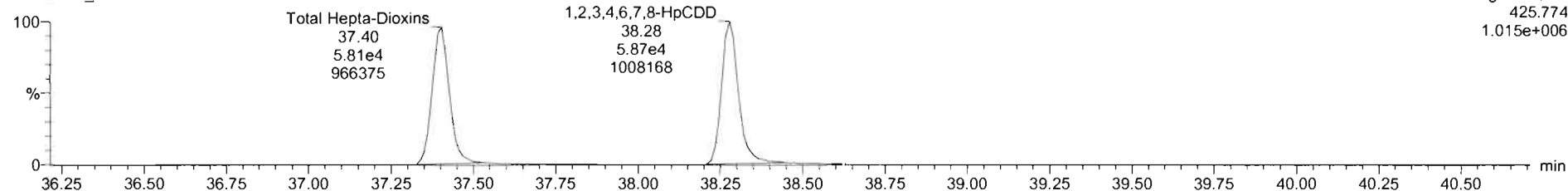
1,2,3,4,6,7,8-HpCDD

210604R2_1



F4:Voltage SIR,EI+
423.777
1.077e+006

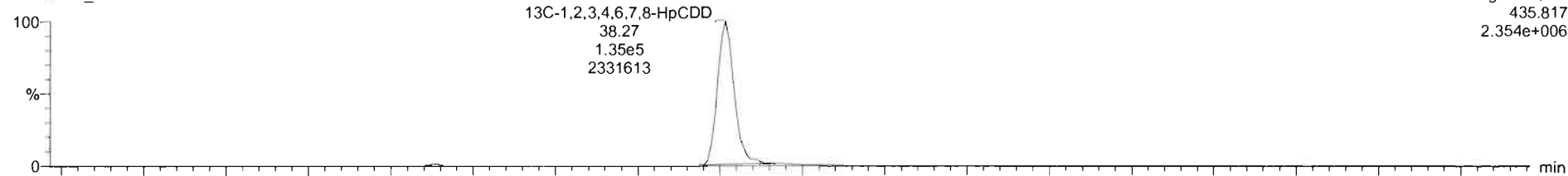
210604R2_1



F4:Voltage SIR,EI+
425.774
1.015e+006

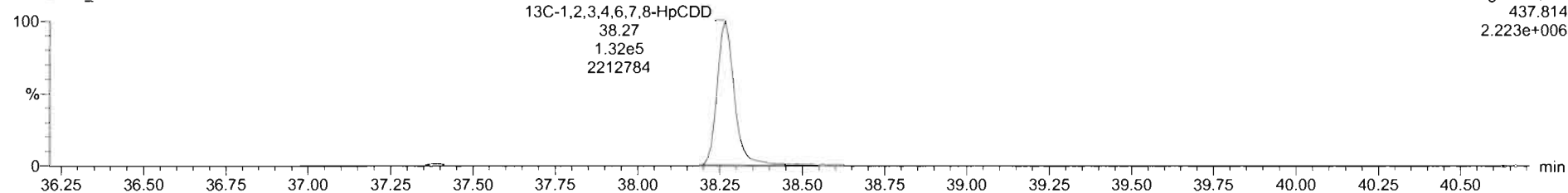
13C-1,2,3,4,6,7,8-HpCDD

210604R2_1



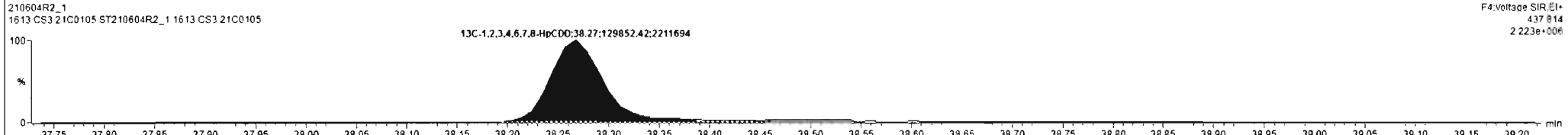
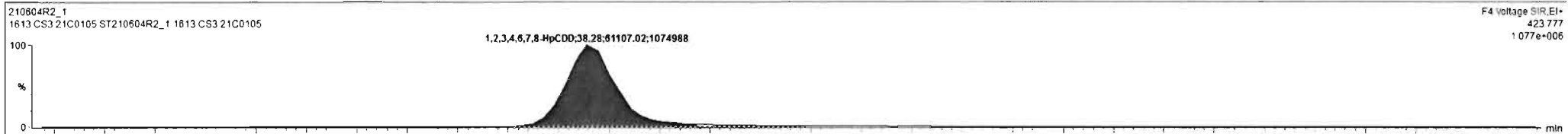
F4:Voltage SIR,EI+
435.817
2.354e+006

210604R2_1



F4:Voltage SIR,EI+
437.814
2.223e+006

#	Name	Resp	IS Resp	Pred RA	RA	nLy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.77e4	6.23e5	0.77	0.77	NO	0.9291	26.71	26.71	NO	1.001	1.001	9.97	99.7	NO
2	1,2,3,7,8-PeCDD	1.96e5	4.45e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	53.2	106	NO
3	1,2,3,4,7,8-HxCDD	1.61e5	3.20e5	1.24	1.27	NO	0.9725	34.47	34.47	NO	1.001	1.001	51.7	103	NO
4	1,2,3,6,7,8-HxCDD	1.64e5	3.67e5	1.24	1.29	NO	0.8771	34.59	34.59	NO	1.001	1.001	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	1.66e5	3.67e5	1.24	1.26	NO	0.8739	34.87	34.86	NO	1.000	1.001	51.7	103	NO
6	1,2,3,4,6,7,8-HpCDD	1.20e5	2.67e5	1.04	1.04	NO	0.8967	38.28	38.28	NO	1.000	1.000	50.0	100	NO
7	OCDD	1.92e5	4.39e5	0.89	0.88	NO	0.8524	41.40	41.40	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	6.31e4	8.88e5	0.77	0.74	NO	0.7466	26.06	26.09	NO	1.000	1.001	9.51	95.1	NO
9	1,2,3,7,8-PeCDF	2.82e5	6.36e5	1.55	1.60	NO	0.8771	29.92	29.93	NO	1.000	1.001	50.6	101	NO
10	1,2,3,4,7,8-PeCDF	2.91e5	6.10e5	1.55	1.56	NO	0.8621	30.95	30.94	NO	1.001	1.000	49.6	99.2	NO
11	1,2,3,4,7,8-HxCDF	2.04e5	4.37e5	1.24	1.24	NO	0.9202	33.52	33.52	NO	1.000	1.000	50.6	101	NO
12	1,2,3,6,7,8-HxCDF	2.75e5	4.75e5	1.24	1.24	NO	0.9363	33.67	33.67	NO	1.001	1.001	50.1	100	NO



Ready 210604R2_1 CAP INUM

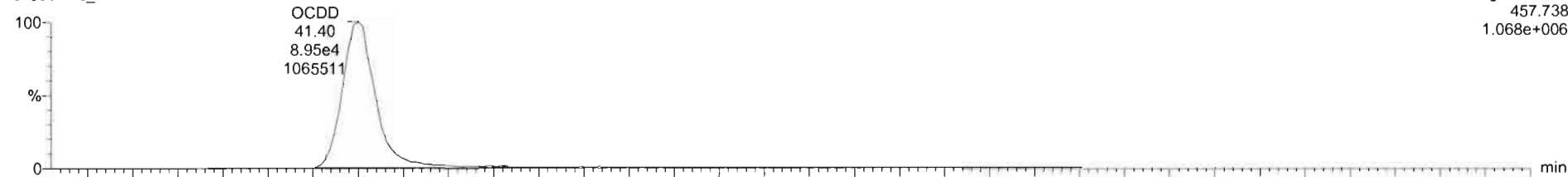
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Last Altered: Friday, June 04, 2021 4:23:35 PM Pacific Daylight Time
Printed: Friday, June 04, 2021 4:25:19 PM Pacific Daylight Time

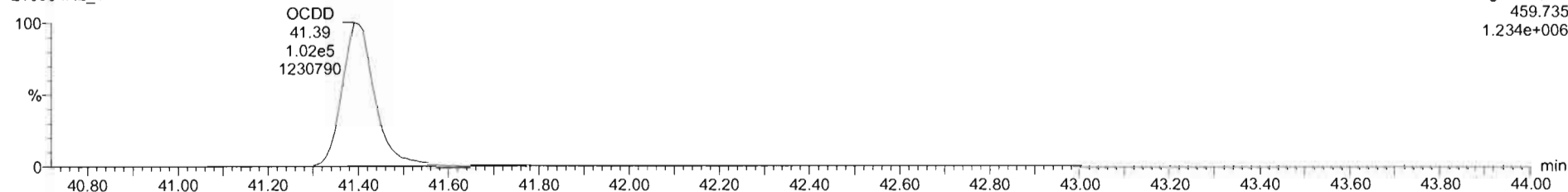
Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

OCDD

210604R2_1

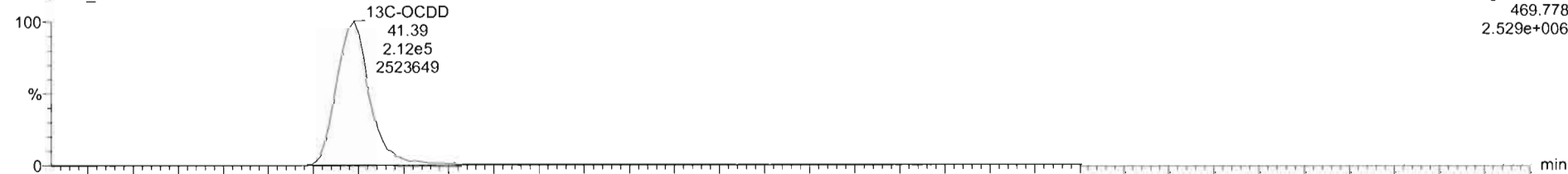


210604R2_1

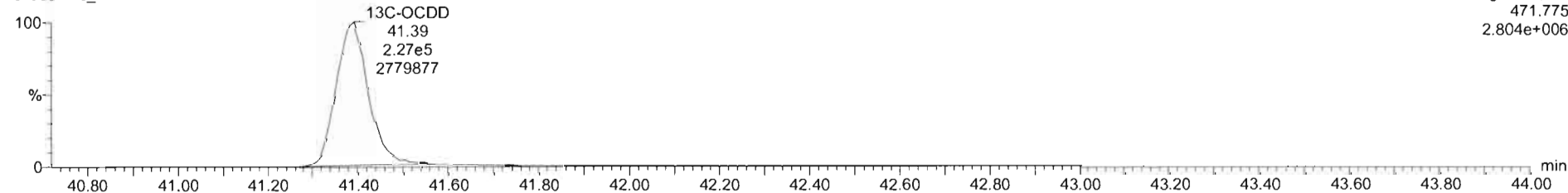


13C-OCDD

210604R2_1



210604R2_1

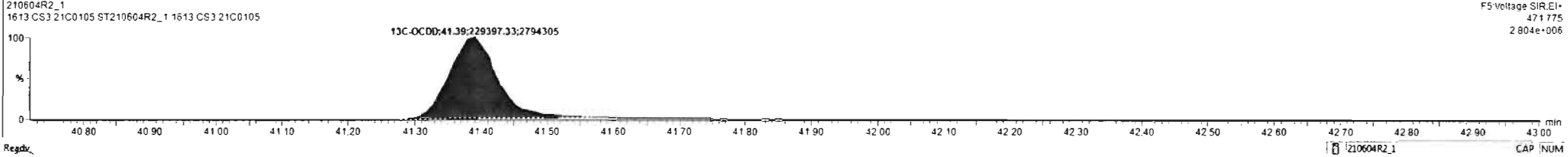


TargetLynx - 210604R2_1.qld - [Chromatogram]

File Edit View Display Processing Window Help

210604R2_1 - ST210604R2_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	5.77e4	6.23e5	0.77	0.77	NO	0.9291	26.71	26.71	NO	1.001	1.001	9.97	99.7	NO
2	1,2,3,7,8-PeCDD	1.96e5	4.45e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	53.2	106	NO
3	1,2,3,4,7,8-HxCDD	1.61e5	3.20e5	1.24	1.27	NO	0.9725	34.47	34.47	NO	1.001	1.001	51.7	103	NO
4	1,2,3,6,7,8-HxCDD	1.64e5	3.67e5	1.24	1.29	NO	0.8771	34.59	34.59	NO	1.001	1.001	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	1.66e5	3.67e5	1.24	1.26	NO	0.8739	34.87	34.88	NO	1.000	1.001	51.7	103	NO
6	1,2,3,4,8,7,8-HpCDD	1.20e5	2.87e5	1.04	1.04	NO	0.8987	38.28	38.28	NO	1.000	1.000	50.0	100	NO
7	OCDD	1.88e5	4.35e5	0.88	0.88	NO	0.8524	41.40	41.40	NO	1.000	1.000	100	100	NO
8	2,3,7,8-TCDF	6.31e4	8.88e5	0.77	0.74	NO	0.7466	26.06	26.09	NO	1.000	1.001	9.51	95.1	NO
9	1,2,3,7,8-PeCDF	2.82e5	6.36e5	1.55	1.60	NO	0.8771	29.92	29.93	NO	1.000	1.001	50.6	101	NO
10	2,3,4,7,8-PeCDF	2.91e5	8.10e5	1.55	1.56	NO	0.9821	30.95	30.94	NO	1.001	1.000	49.6	99.2	NO
11	1,2,3,4,7,8-HxCDF	2.04e5	4.37e5	1.24	1.24	NO	0.9202	33.52	33.52	NO	1.000	1.000	50.6	101	NO
12	1,2,3,6,7,8-HxCDF	2.77e5	4.75e5	1.24	1.24	NO	0.9363	33.67	33.67	NO	1.001	1.001	50.1	100	NO



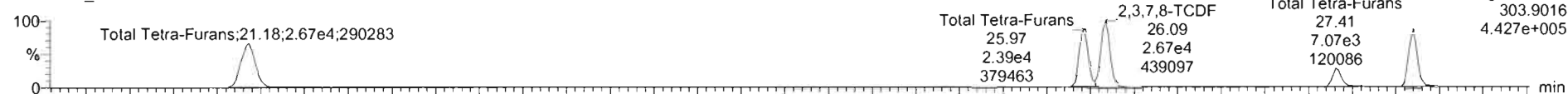
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Last Altered: Friday, June 04, 2021 4:23:35 PM Pacific Daylight Time
Printed: Friday, June 04, 2021 4:25:19 PM Pacific Daylight Time

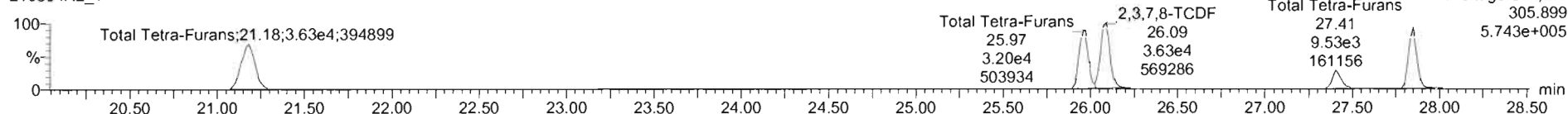
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2,3,7,8-TCDF

210604R2_1

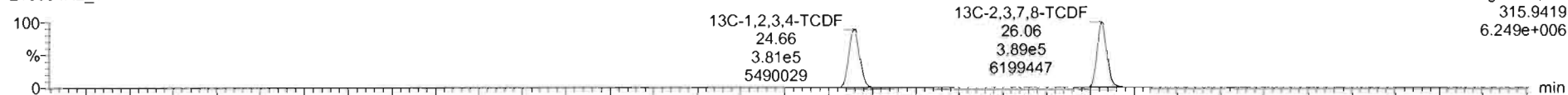


210604R2_1

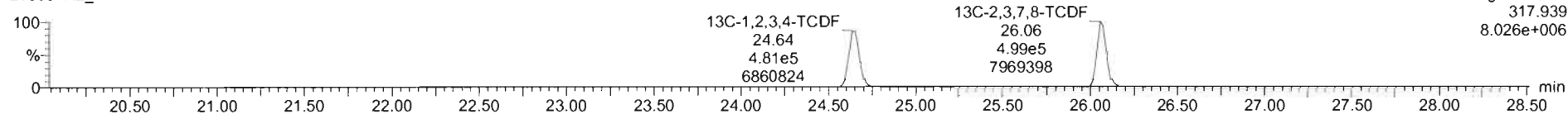


13C-2,3,7,8-TCDF

210604R2_1

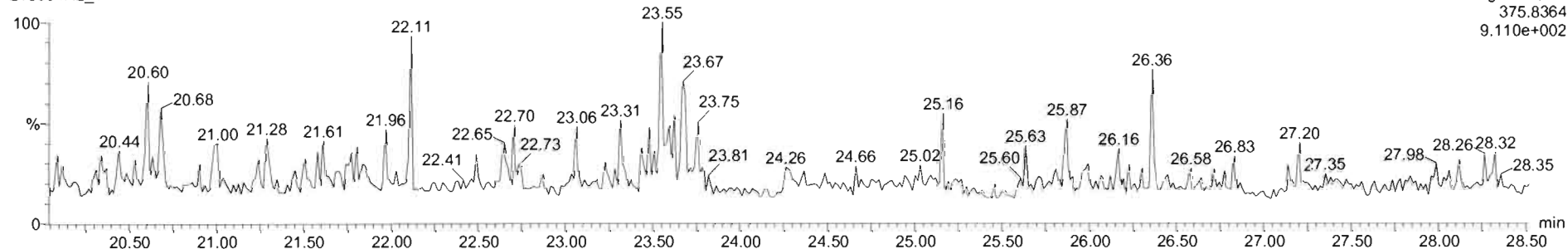


210604R2_1



DPE1

210604R2_1



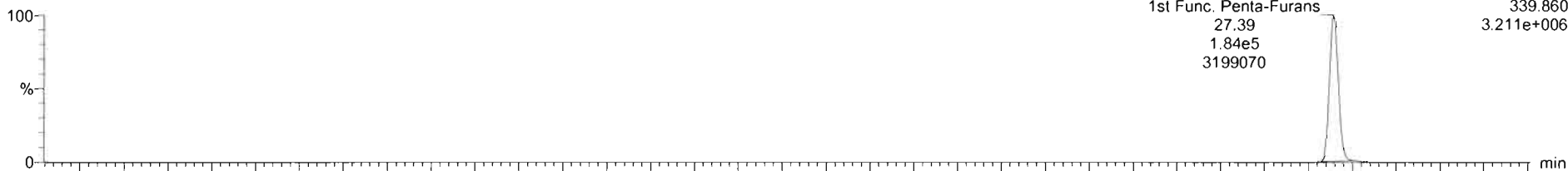
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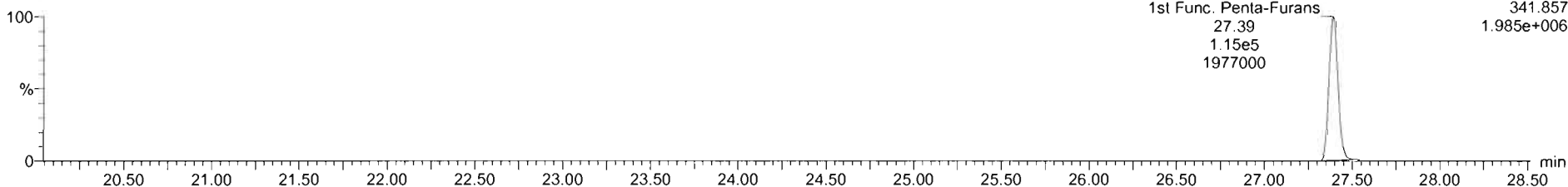
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1st Func. Penta-Furans

210604R2_1

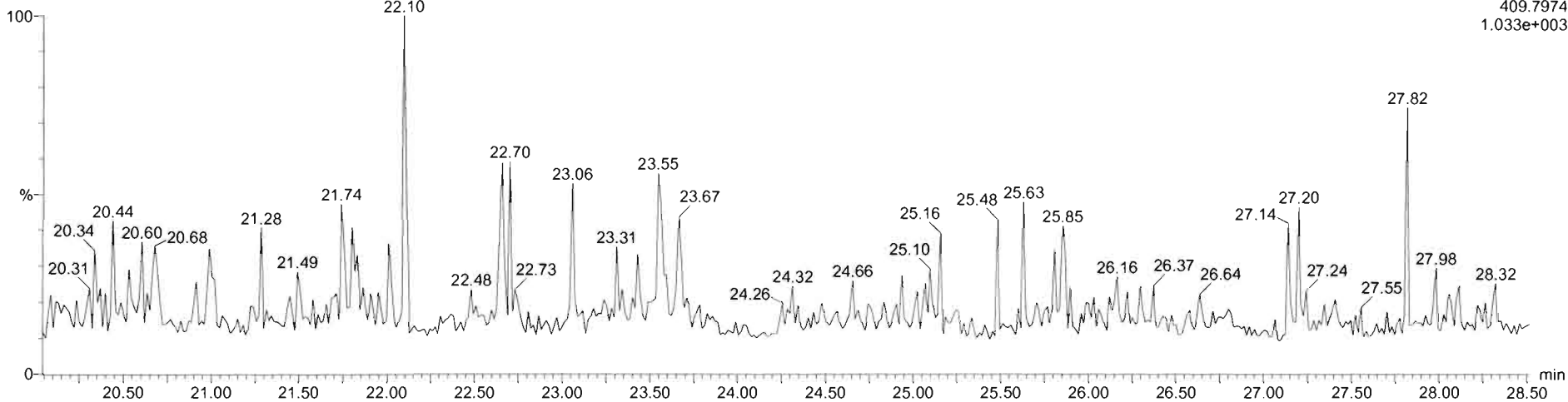


210604R2_1



DPE6

210604R2_1

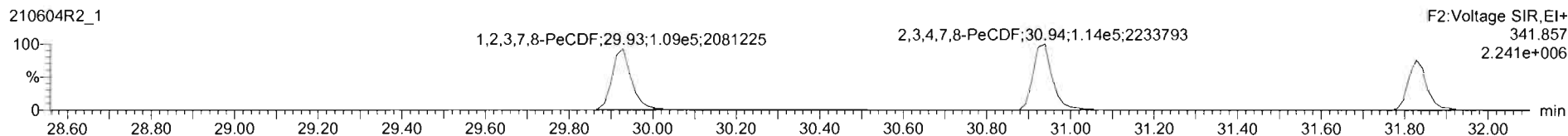
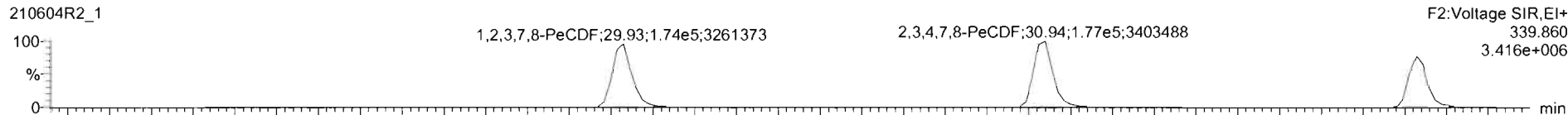


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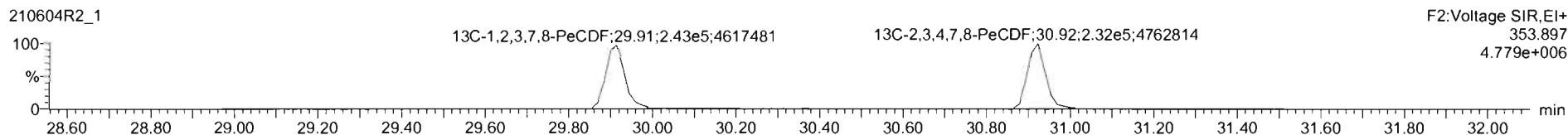
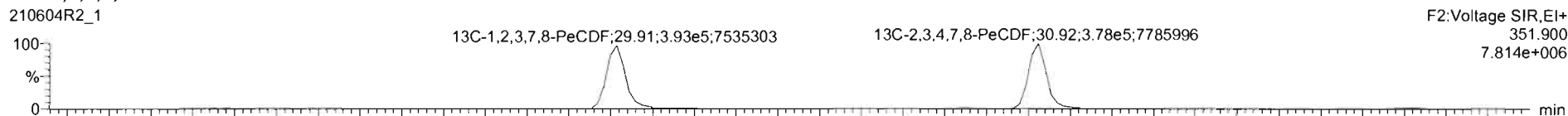
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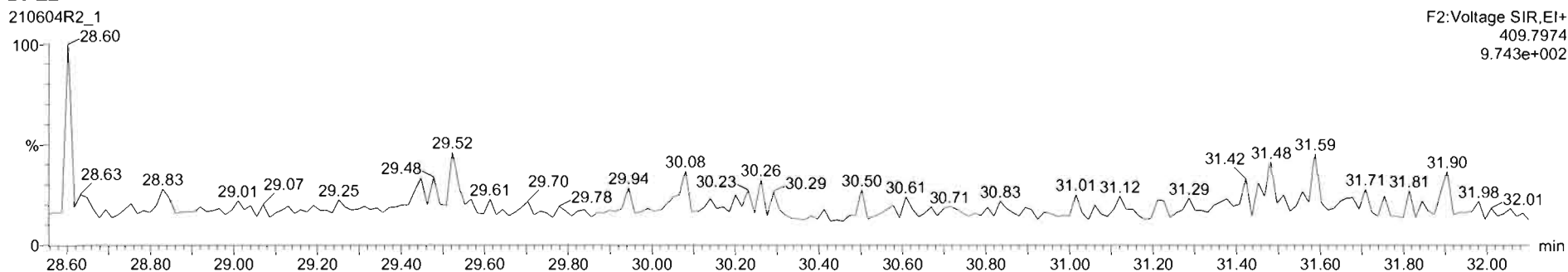
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2



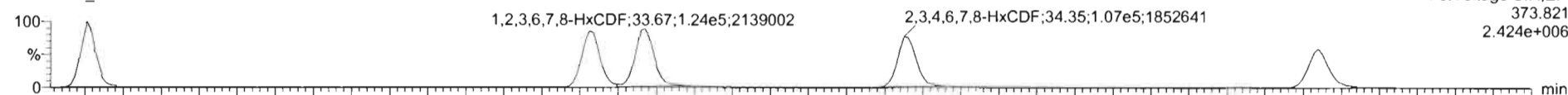
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Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

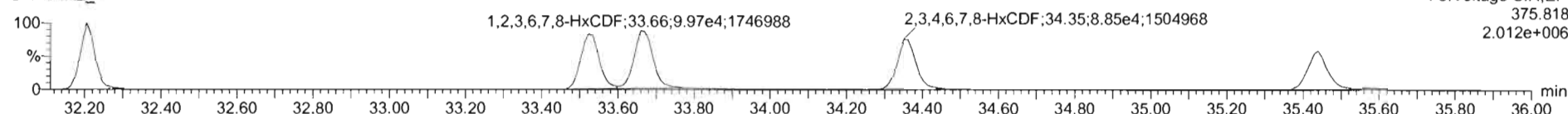
1,2,3,4,7,8-HxCDF

210604R2_1



F3:Voltage SIR,EI+
373.821
2.424e+006

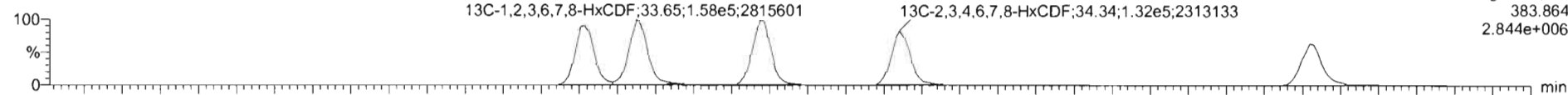
210604R2_1



F3:Voltage SIR,EI+
375.818
2.012e+006

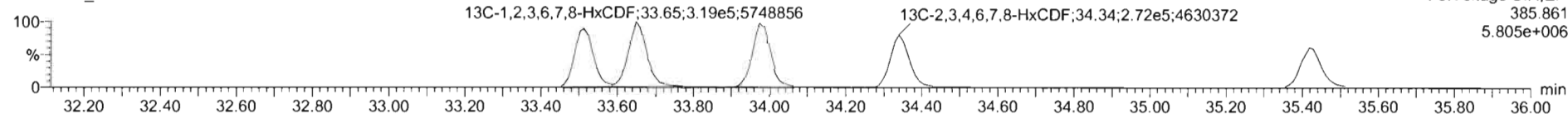
13C-1,2,3,4,7,8-HxCDF

210604R2_1



F3:Voltage SIR,EI+
383.864
2.844e+006

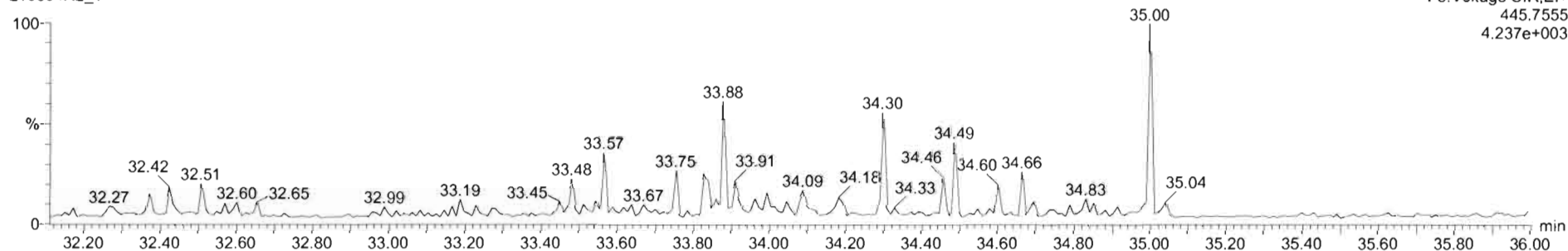
210604R2_1



F3:Voltage SIR,EI+
385.861
5.805e+006

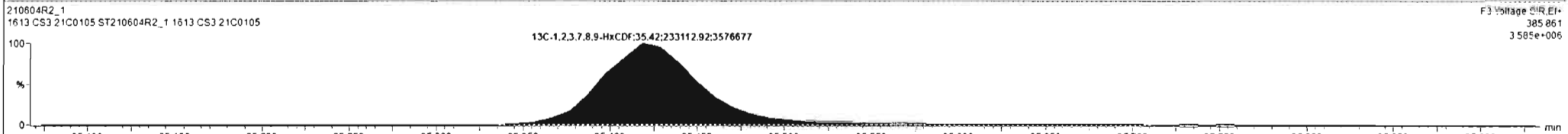
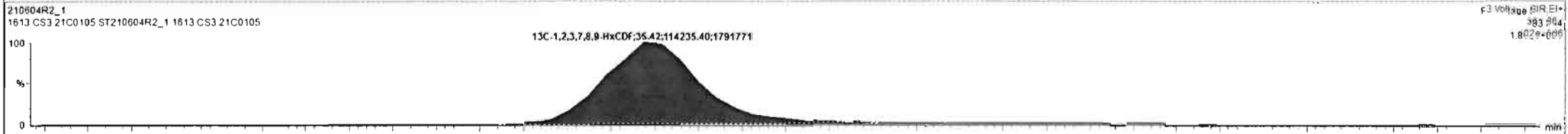
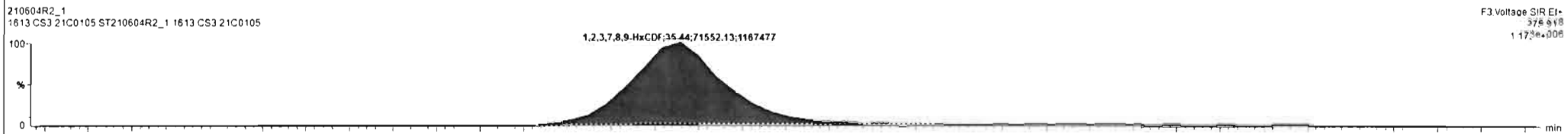
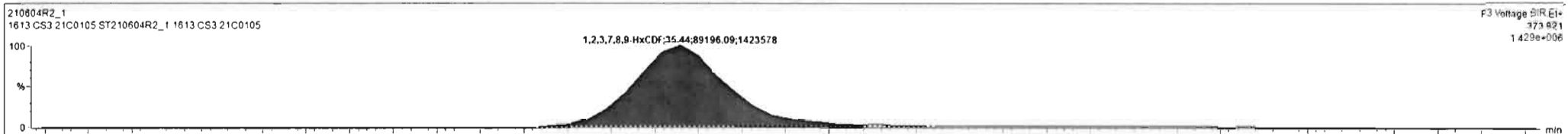
DPE3

210604R2_1



F3:Voltage SIR,EI+
445.7555
4.237e+003

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
13	2,3,4,6,7,8-HxCDF	1.95e5	4.03e5	1.24	1.21	NO	0.9725	34.36	34.35	NO	1.001	1.000	49.8	99.6	NO
14	1,2,3,7,8,9-HxCDF	1.61e5	3.47e5	1.24	1.25	NO	0.9396	35.43	35.44	NO	1.000	1.001	49.3	98.5	NO
15	1,2,3,4,6,7,8-HpCDF	1.63e5	3.18e5	1.04	1.04	NO	1.0481	37.07	37.07	NO	1.000	1.001	49.4	98.8	NO
16	1,2,3,4,7,8,9-HpCDF	1.28e5	2.51e5	1.04	1.02	NO	1.0453	38.96	38.96	NO	1.000	1.000	48.7	97.4	NO
17	OCDF	2.09e5	5.49e5	0.89	0.85	NO	0.7712	41.72	41.74	NO	1.000	1.001	98.8	98.8	NO
18	13C-2,3,7,8-TCDD	6.23e5	5.80e5	0.77	0.77	NO	1.1040	26.87	26.68	NO	1.027	1.027	101	101	NO
19	13C-1,2,3,7,8-PeCDD	4.45e5	5.60e5	0.63	0.64	NO	0.8635	31.05	31.10	NO	1.196	1.198	92.1	92.1	NO
20	13C-1,2,3,4,7,8-HxCDD	3.20e5	4.67e5	1.24	1.30	NO	0.7461	34.44	34.44	NO	1.014	1.014	91.8	91.8	NO
21	13C-1,2,3,6,7,8-HxCDD	3.67e5	4.67e5	1.24	1.27	NO	0.8468	34.56	34.57	NO	1.017	1.018	92.8	92.8	NO
22	13C-1,2,3,7,8,9-HxCDD	3.67e5	4.67e5	1.24	1.27	NO	0.8683	34.86	34.88	NO	1.026	1.026	90.5	90.5	NO
23	13C-1,2,3,4,6,7,8-HpCDD	2.67e5	4.67e5	1.04	1.06	NO	0.6641	38.21	38.27	NO	1.125	1.126	86.0	86.0	NO
24	13C-OCDF	4.35e5	4.67e5	0.89	0.90	NO	0.5607	41.14	41.39	NO	1.211	1.218	166	83.0	NO



Dataset: U:\VG12.PRO\Results\210604R2\210604R2_1.qld

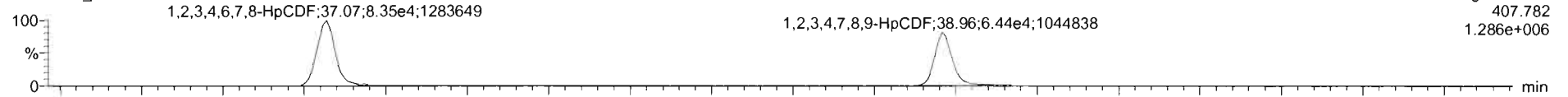
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Printed: Friday, June 04, 2021 4:25:19 PM Pacific Daylight Time

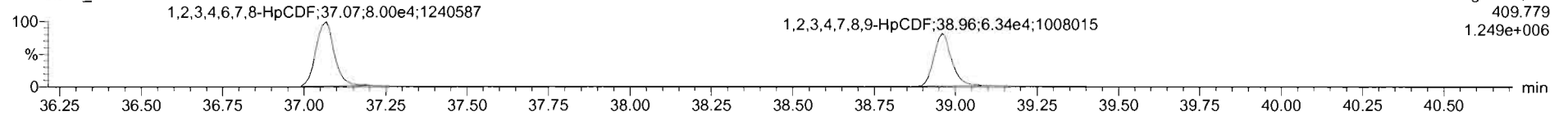
Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,4,6,7,8-HpCDF

210604R2_1

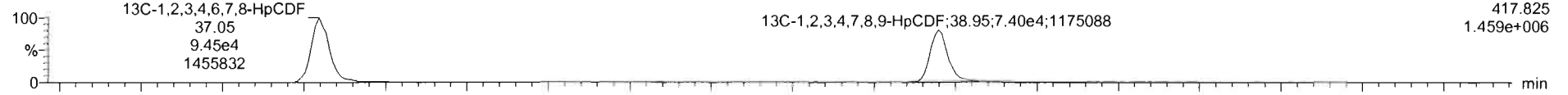


210604R2_1

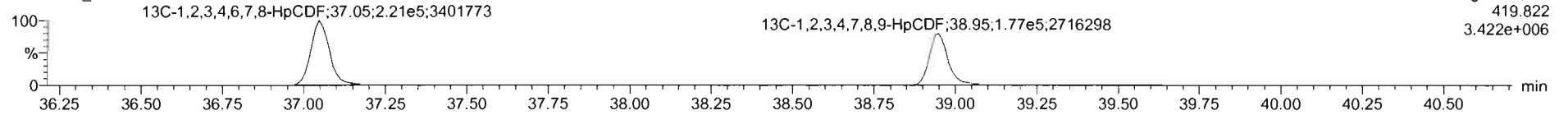


13C-1,2,3,4,6,7,8-HpCDF

210604R2_1

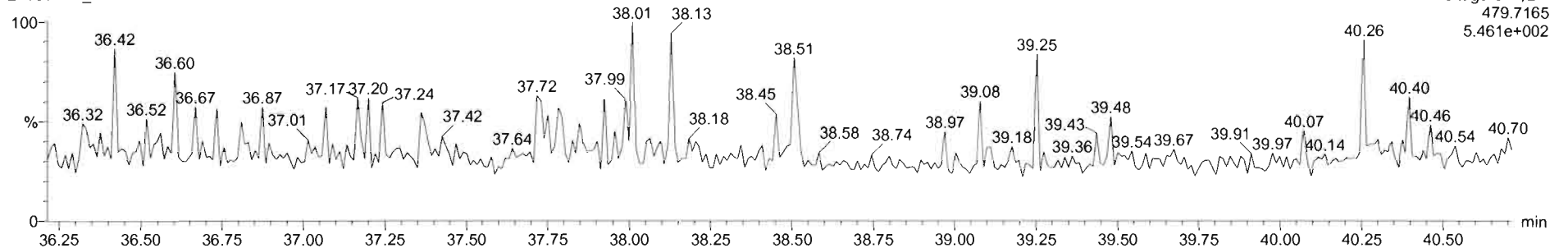


210604R2_1

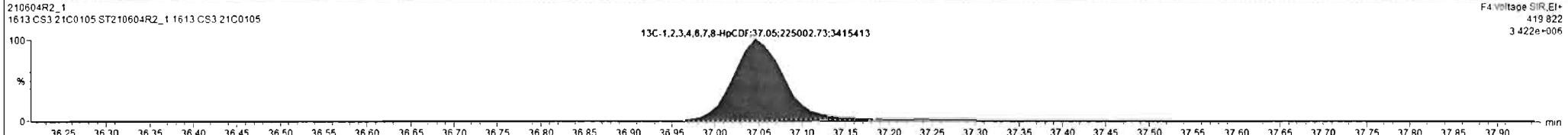
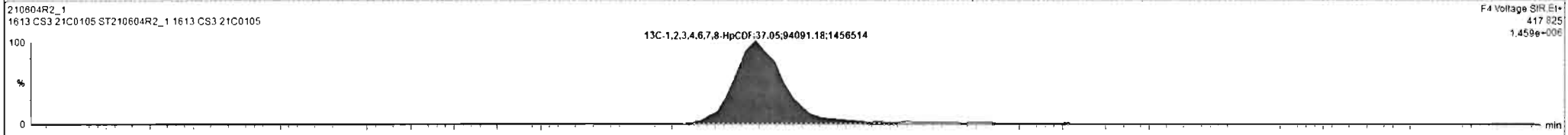
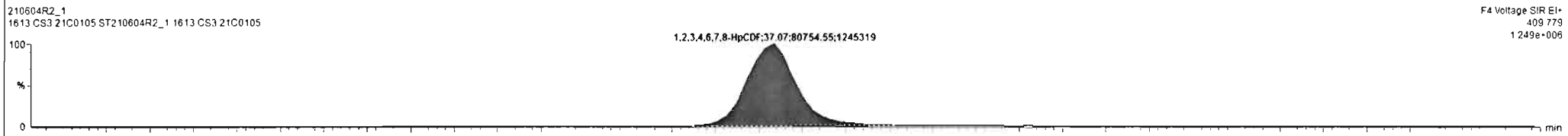
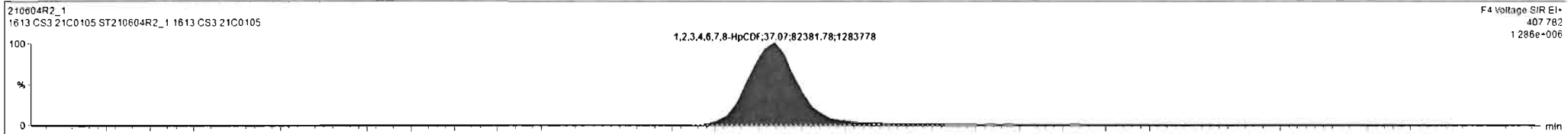


DPE4

210604R2_1



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
13	1,2,3,4,6,7,8-HxCDF	1.95e5	4.03e5	1.24	1.21	NO	0.9725	34.36	34.35	NO	1.001	1.000	49.8	99.6	NO
14	1,2,3,7,8,9-HxCDF	1.61e5	3.47e5	1.24	1.25	NO	0.9396	35.43	35.44	NO	1.020	1.001	49.3	98.5	NO
15	1,2,3,4,6,7,8-HpCDF	1.63e5	3.19e5	1.04	1.02	NO	1.0481	37.07	37.07	NO	1.000	1.001	48.6	97.6	NO
16	1,2,3,4,7,8,9-HpCDF	1.28e5	2.51e5	1.04	1.02	NO	1.0453	38.96	38.96	NO	1.000	1.000	46.7	97.4	NO
17	OCDF	2.09e5	5.49e5	0.89	0.85	NO	0.7712	41.72	41.74	NO	1.000	1.001	98.8	98.8	NO
18	13C-2,3,7,8-TCDD	6.23e5	5.80e5	0.77	0.77	NO	1.1040	26.67	26.68	NO	1.027	1.027	101	101	NO
19	13C-1,2,3,7,8-PeCDD	4.45e5	5.60e5	0.63	0.64	NO	0.8635	31.05	31.10	NO	1.196	1.199	92.1	92.1	NO
20	13C-1,2,3,4,7,8-HxCDD	3.20e5	4.67e5	1.24	1.30	NO	0.7461	34.44	34.44	NO	1.014	1.014	91.8	91.8	NO
21	13C-1,2,3,6,7,8-HxCDD	3.67e5	4.67e5	1.24	1.27	NO	0.8468	34.56	34.57	NO	1.017	1.018	92.8	92.8	NO
22	13C-1,2,3,7,8,9-HxCDD	3.67e5	4.67e5	1.24	1.27	NO	0.8683	34.86	34.86	NO	1.026	1.026	90.5	90.5	NO
23	13C-1,2,3,4,6,7,8-HpCDD	2.67e5	4.67e5	1.04	1.06	NO	0.6641	38.21	38.27	NO	1.125	1.126	86.0	86.0	NO
24	13C-OCDD	4.76e5	4.67e5	0.80	0.90	NO	0.5607	41.15	41.30	NO	1.211	1.218	166	83.0	NO



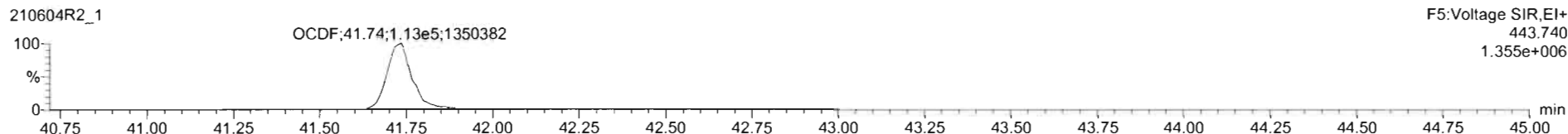
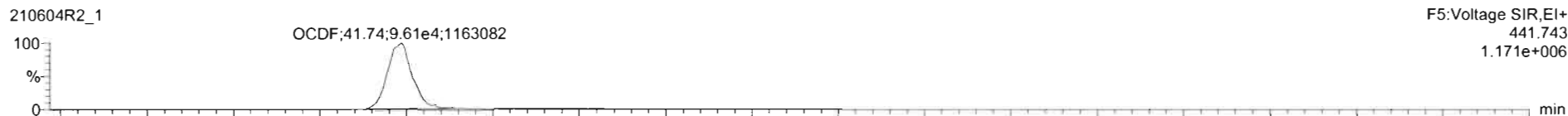
Ready 210604R2_1 CAP INUM

Dataset: U:\VG12.PRO\Results\210604R2\210604R2_1.qld

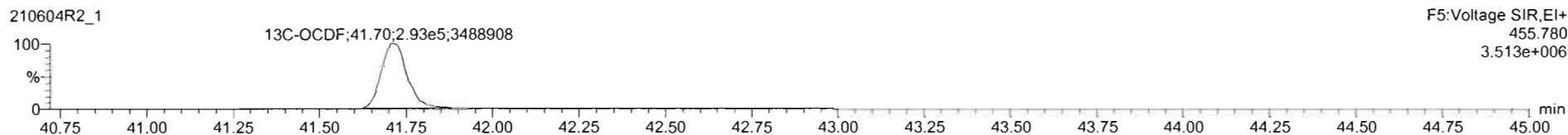
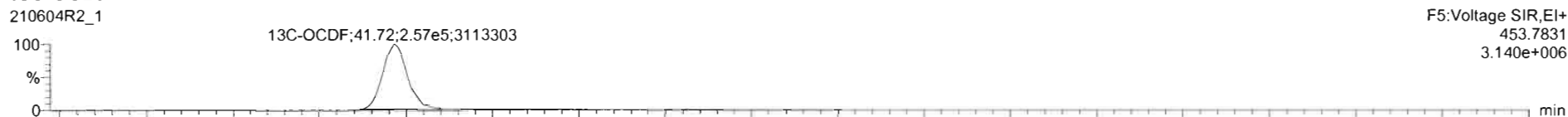
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Printed: Friday, June 04, 2021 4:25:19 PM Pacific Daylight Time

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

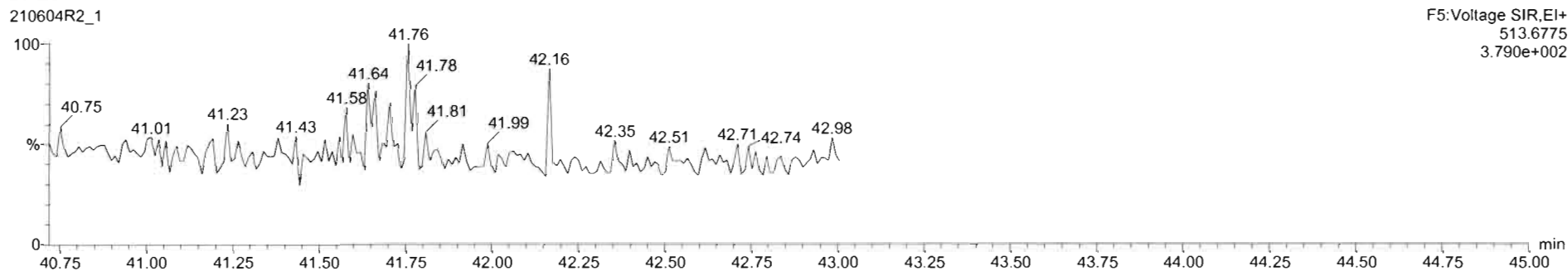
OCDF



13C-OCDF

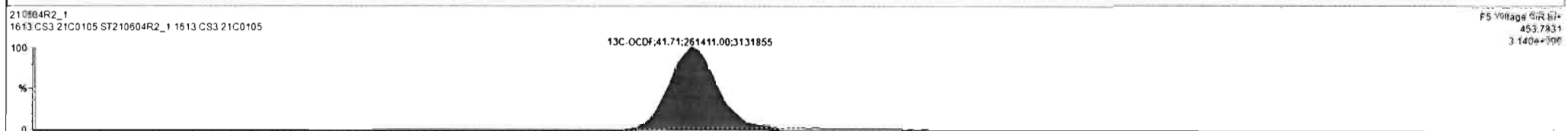
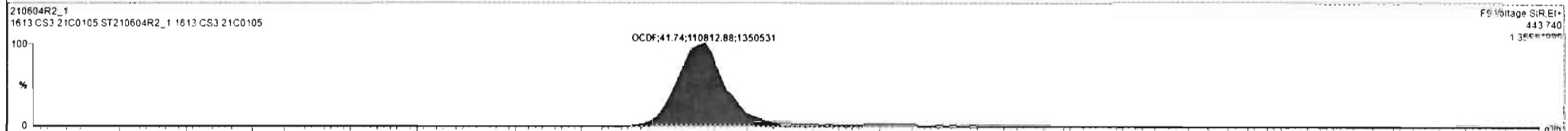
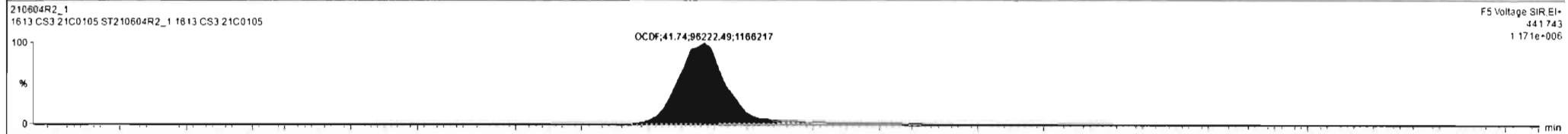


DPE5



210604R2_1 - ST210604R2_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	MRec	STD out
13	1,2,3,4,6,7,8-HxCDF	1.95e5	4.03e5	1.24	1.21	NO	0.9725	34.36	34.35	NO	1.001	1.000	49.8	99.6	NO
14	1,2,3,7,8,9-HxCDF	1.61e5	3.47e5	1.24	1.25	NO	0.9396	35.43	35.44	NO	1.000	1.001	49.3	98.5	NO
15	1,2,3,4,6,7,8-HpCDF	1.63e5	3.19e5	1.04	1.02	NO	1.0481	37.07	37.07	NO	1.000	1.001	48.8	97.6	NO
16	1,2,3,4,7,8,9-HpCDF	1.28e5	2.51e5	1.04	1.02	NO	1.0453	38.96	38.96	NO	1.000	1.000	48.7	97.4	NO
17	OCDF	2.07e5	5.56e5	0.89	0.87	NO	0.7712	41.72	41.74	NO	1.000	1.000	96.5	96.5	NO
18	13C-2,3,7,8-TCDD	6.23e5	5.80e5	0.77	0.77	NO	1.1040	26.67	26.68	NO	1.027	1.027	101	101	NO
19	13C-1,2,3,7,8-PeCDD	4.45e5	5.80e5	0.83	0.64	NO	0.8635	31.05	31.10	NO	1.196	1.198	92.1	92.1	NO
20	13C-1,2,3,4,7,8-HxCDD	3.20e5	4.67e5	1.24	1.30	NO	0.7461	34.44	34.44	NO	1.014	1.014	91.8	91.8	NO
21	13C-1,2,3,6,7,8-HxCDD	3.67e5	4.67e5	1.24	1.27	NO	0.8468	34.56	34.57	NO	1.017	1.018	92.8	92.8	NO
22	13C-1,2,3,7,8-HxCDD	3.67e5	4.67e5	1.24	1.27	NO	0.8683	34.86	34.86	NO	1.026	1.026	90.5	90.5	NO
23	13C-1,2,3,4,6,7,8-HpCDD	2.87e5	4.67e5	1.04	1.06	NO	0.8641	38.21	38.27	NO	1.125	1.126	86.0	86.0	NO
24	13C-OCDF	4.36e5	4.67e5	0.89	0.87	NO	0.6607	41.15	41.10	NO	1.215	1.218	106	106	NO



Regdy 40.80 40.90 41.00 41.10 41.20 41.30 41.40 41.50 41.60 41.70 41.80 41.90 42.00 42.10 42.20 42.30 42.40 42.50 42.60 42.70 42.80 42.90 43.00

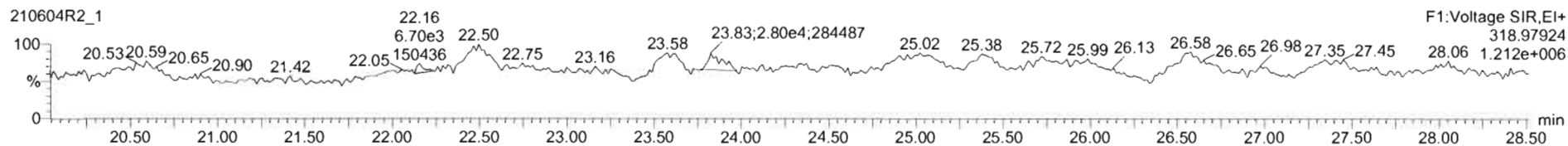
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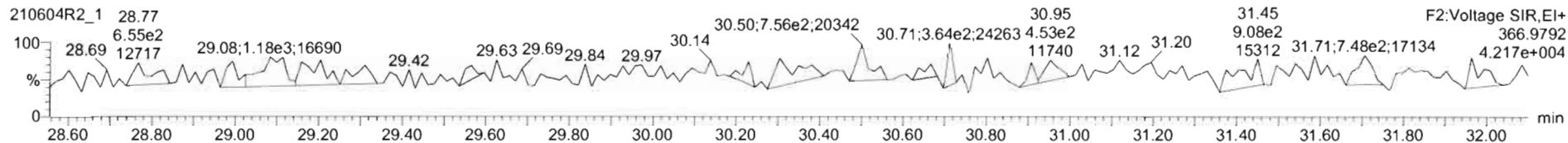
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Printed: Friday, June 04, 2021 4:25:19 PM Pacific Daylight Time

Name: 210604R2_1, Date: 04-Jun-2021, Time: 10:24:25, ID: ST210604R2_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

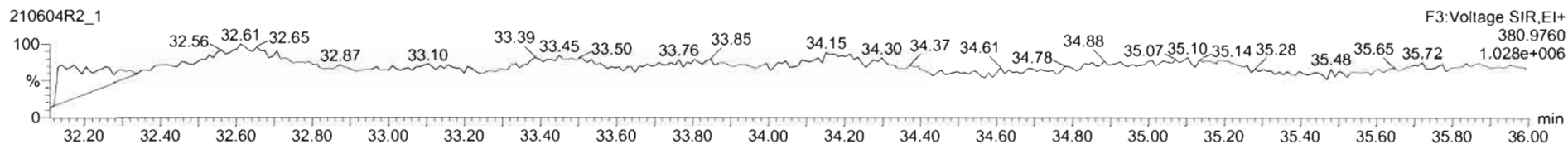
PFK1



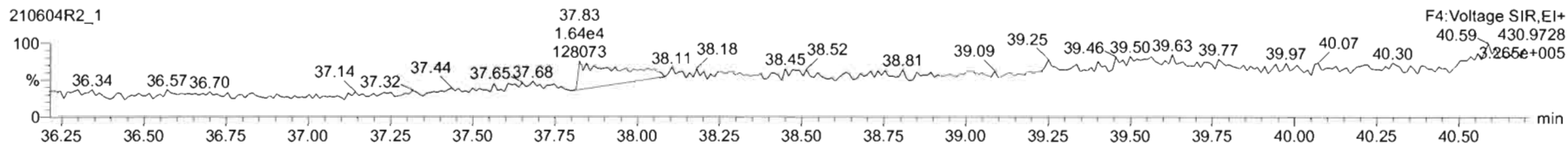
PFK2



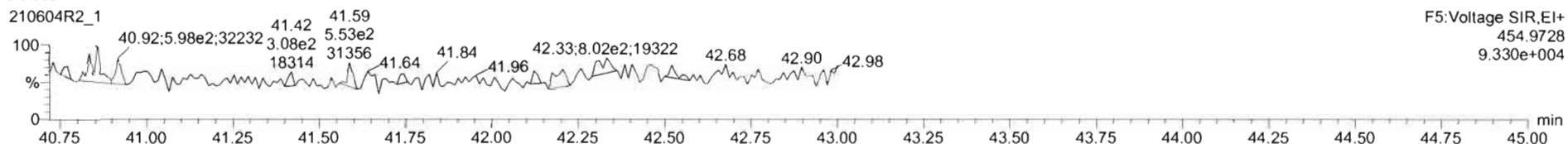
PFK3



PFK4

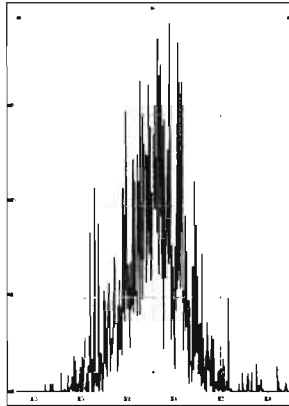


PFK5

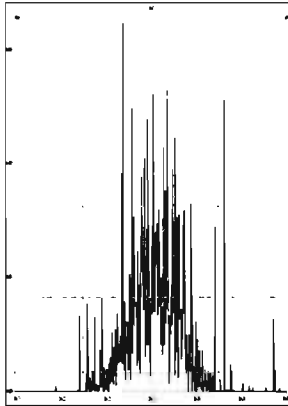


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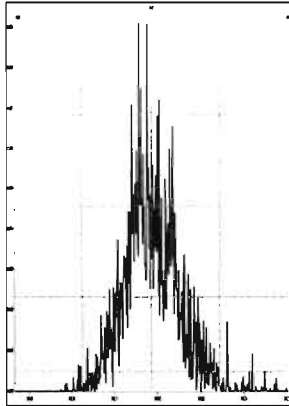
M 292.9824 R 16401



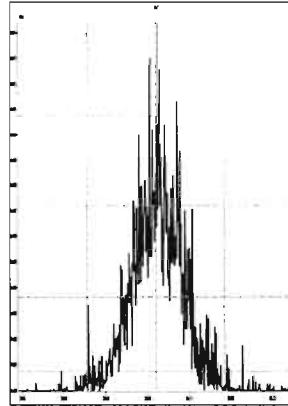
M 304.9824 R 20194



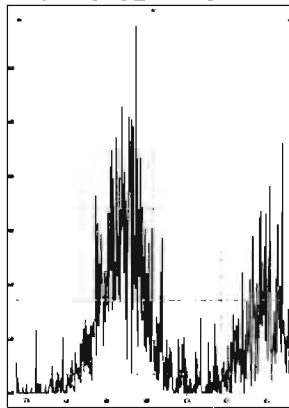
M 318.9792 R 16723



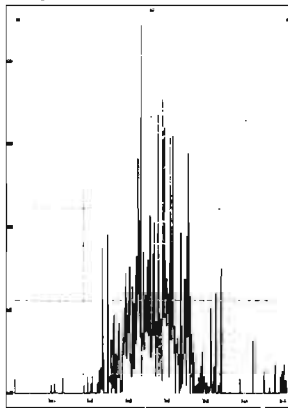
M 330.9792 R 14576



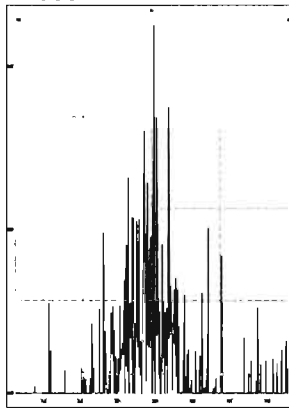
M 342.9792 R 15248



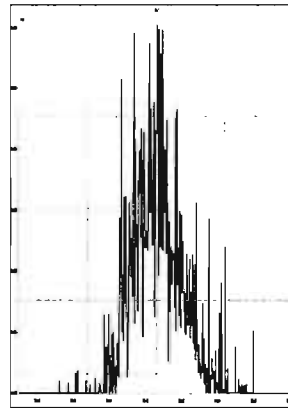
M 354.9792 R 28912



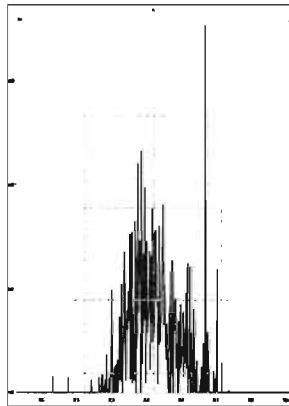
M 366.9792 R 114086



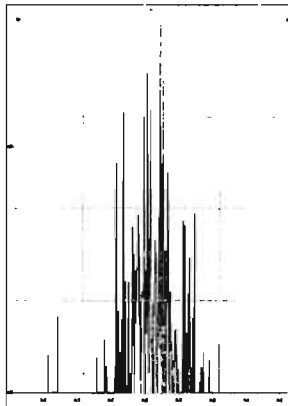
M 380.9760 R 16726



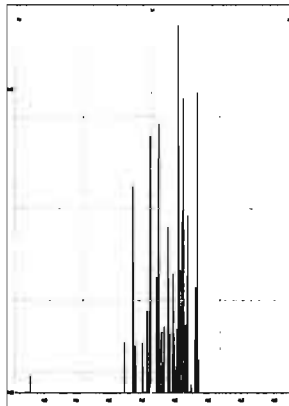
M 392.9760 R 43382



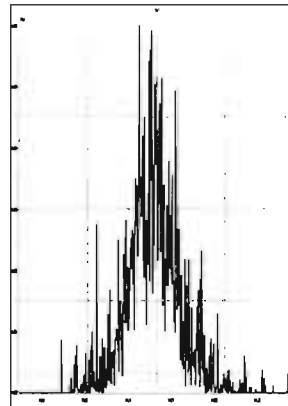
M 404.9760 R 177082



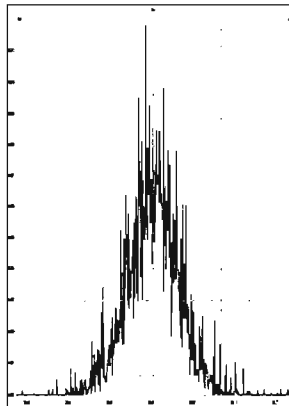
M 416.9760 R 416663



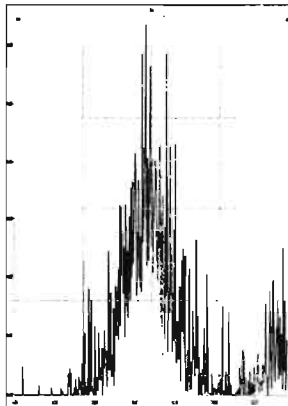
M 318.9792 R 14519



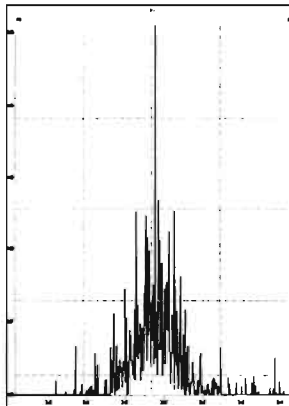
M 330.9792 R 13890



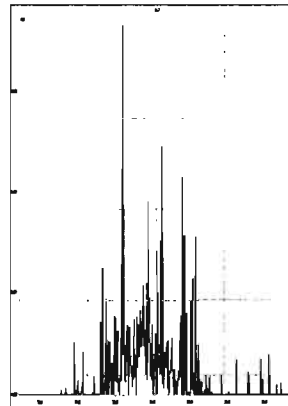
M 342.9792 R 18343



M 354.9792 R 25396

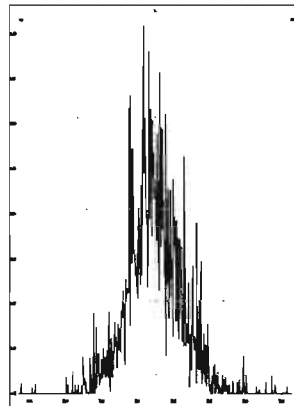


M 366.9792 R 153958

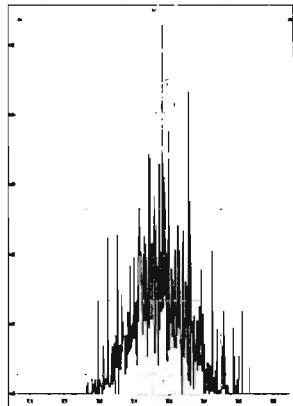


Printed: Friday, June 04, 2021 21:56:13 Pacific Daylight Time

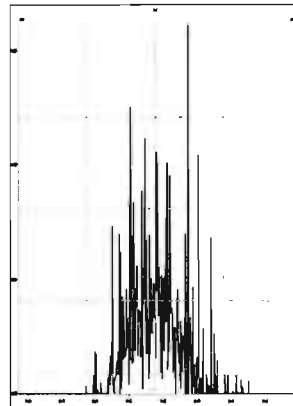
M 380.9760 R 16958



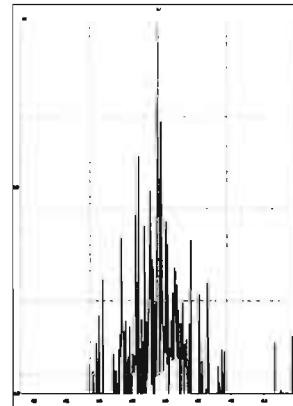
M 392.9760 R 20559



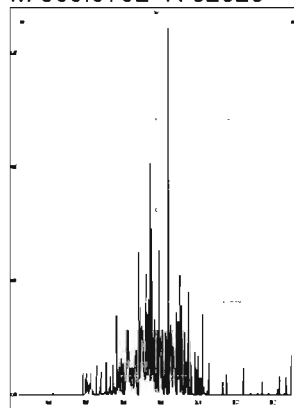
M 404.9760 R 39489



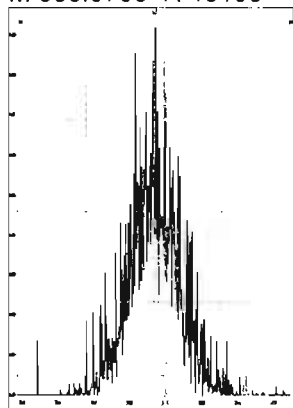
M 416.9760 R 106818



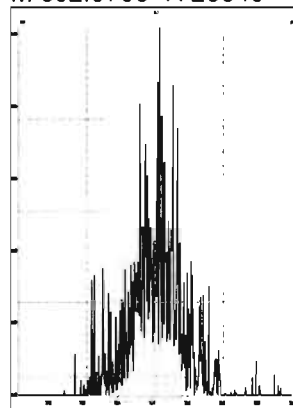
M 366.9792 R 82520



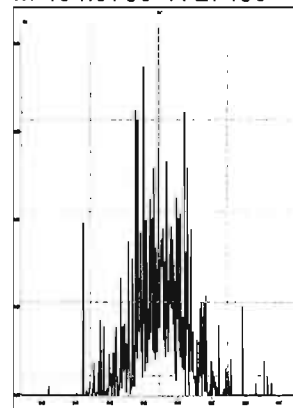
M 380.9760 R 15153



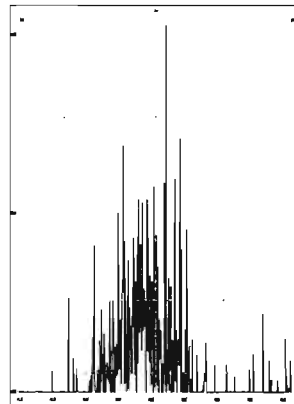
M 392.9760 R 20346



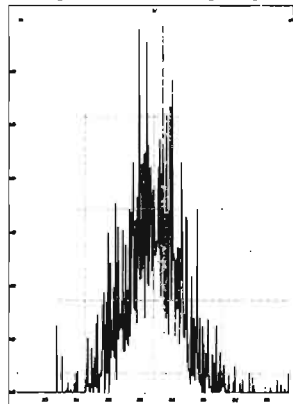
M 404.9760 R 27460



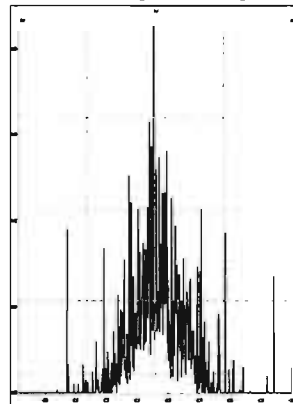
M 416.9760 R 181991



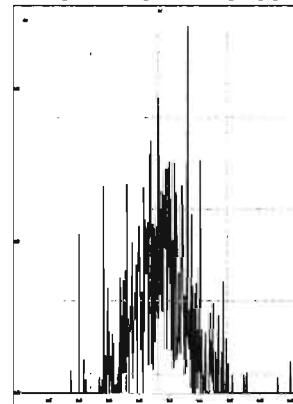
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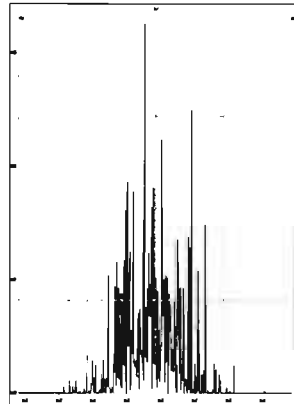
M 442.9728 R 17182



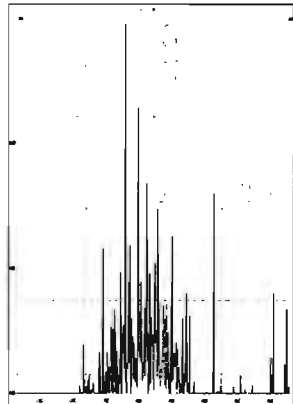
M 454.9728 R 118055



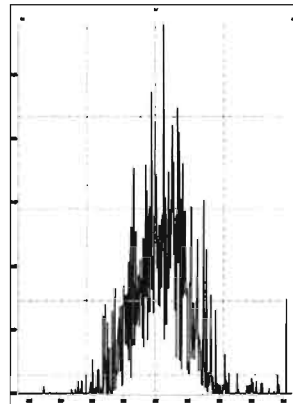
M 404.9760 R 33125



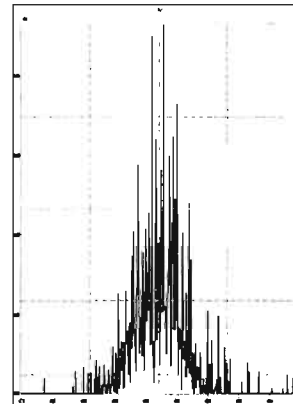
M 416.9760 R 163690



M 430.9728 R 15808

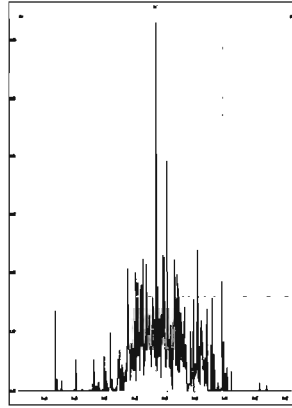


M 442.9728 R 18534

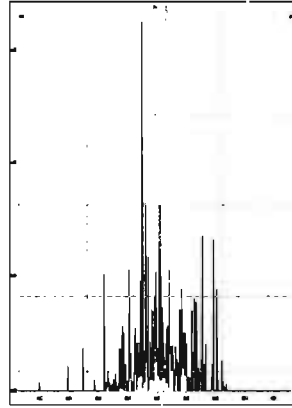


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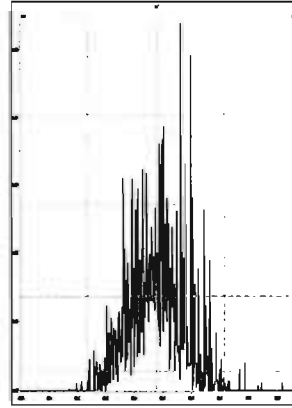
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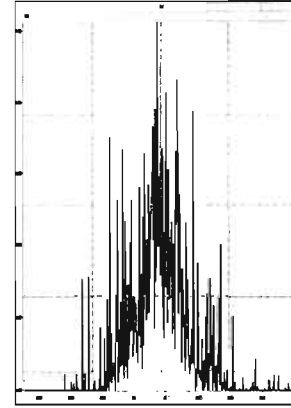
M 466.9728 R 140231



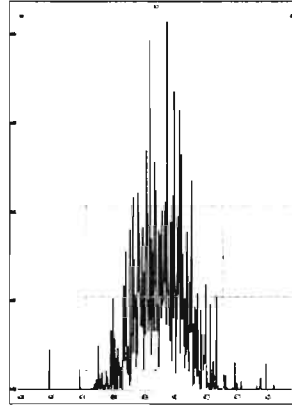
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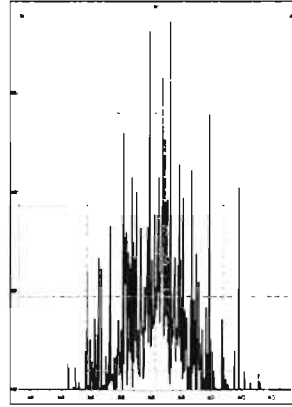
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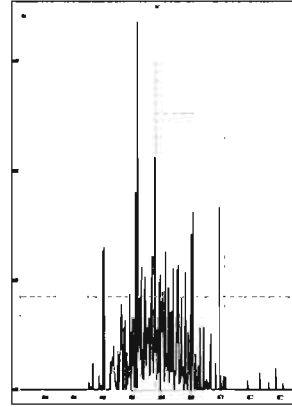
M 442.9728 R 22635



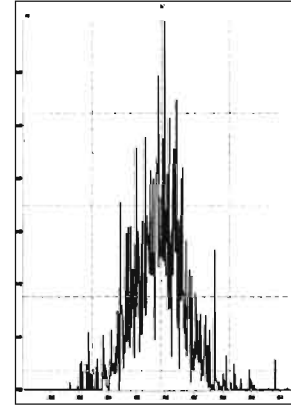
M 454.9728 R 25797



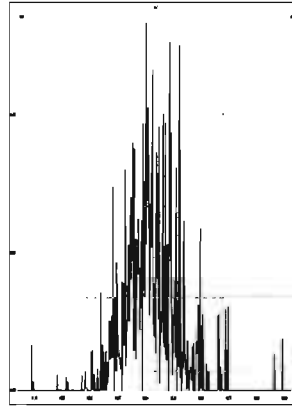
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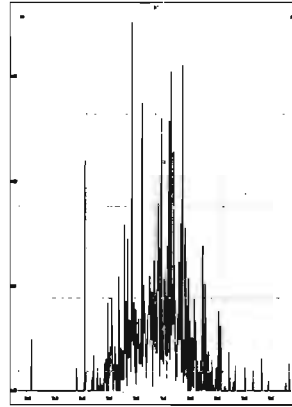
M 480.9696 R 17453



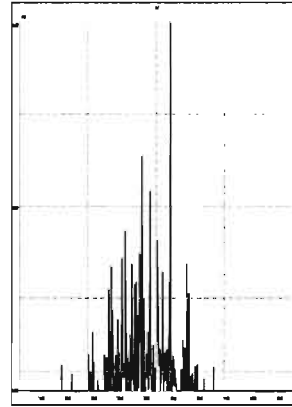
M 492.9696 R 51438



M 504.9696 R 39062



M 516.9697 R 292206



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST210604 R3_1

Reviewed By: DF 06/08/24

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>HN</u>	<u>HN</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	Y	N
- Bottle position verified?	<u>HN</u>	<u>HN</u>

Mass resolution \geq

5k 6-8K 8K 10K
1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
GC Break <20%	<input type="checkbox"/>	<input type="checkbox"/>
<u>8280 CS1 End Standard:</u>	<input type="checkbox"/>	<input checked="" type="checkbox"/> NA

Comments:

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_2.qld

Last Altered: Saturday, June 05, 2021 10:13:25 AM Pacific Daylight Time
Printed: Saturday, June 05, 2021 10:13:45 AM Pacific Daylight Time

HN 06/05/21
DF 06/08/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_2, Date: 04-Jun-2021, Time: 22:40:33, ID: ST210604R3_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	4.95e4	5.51e5	0.76	NO	0.929	26.71	26.70	NO	1.001	1.001	9.6644	96.6	NO
2	2 1,2,3,7,8-PeCDD	1.65e5	3.80e5	0.62	NO	0.826	31.14	31.12	NO	1.001	1.000	52.687	105	NO
3	3 1,2,3,4,7,8-HxCDD	1.38e5	2.77e5	1.25	NO	0.972	34.49	34.48	NO	1.001	1.000	51.104	102	NO
4	4 1,2,3,6,7,8-HxCDD	1.39e5	3.08e5	1.27	NO	0.877	34.61	34.60	NO	1.001	1.000	51.353	103	NO
5	5 1,2,3,7,8,9-HxCDD	1.42e5	3.12e5	1.26	NO	0.874	34.90	34.90	NO	1.000	1.000	52.060	104	NO
6	6 1,2,3,4,6,7,8-HpCDD	9.83e4	2.21e5	1.06	NO	0.899	38.29	38.29	NO	1.000	1.000	49.529	99.1	NO
7	7 OCDD	1.38e5	3.12e5	0.88	NO	0.852	41.33	41.33	NO	1.000	1.000	103.97	104	NO
8	8 2,3,7,8-TCDF	5.64e4	7.81e5	0.76	NO	0.747	26.06	26.08	NO	1.000	1.001	9.6632	96.6	NO
9	9 1,2,3,7,8-PeCDF	2.25e5	4.70e5	1.59	NO	0.877	29.92	29.93	NO	1.000	1.001	54.576	109	NO
10	10 2,3,4,7,8-PeCDF	2.22e5	5.00e5	1.59	NO	0.962	30.95	30.94	NO	1.001	1.000	46.072	92.1	NO
11	11 1,2,3,4,7,8-HxCDF	1.72e5	3.74e5	1.24	NO	0.920	33.53	33.53	NO	1.000	1.000	49.885	99.8	NO
12	12 1,2,3,6,7,8-HxCDF	1.82e5	4.00e5	1.24	NO	0.936	33.68	33.67	NO	1.001	1.000	48.617	97.2	NO
13	13 2,3,4,6,7,8-HxCDF	1.65e5	3.39e5	1.22	NO	0.973	34.38	34.37	NO	1.001	1.000	49.923	99.8	NO
14	14 1,2,3,7,8,9-HxCDF	1.39e5	2.94e5	1.22	NO	0.940	35.44	35.45	NO	1.000	1.001	50.342	101	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.35e5	2.59e5	1.03	NO	1.05	37.08	37.08	NO	1.000	1.001	49.567	99.1	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.10e5	2.12e5	1.04	NO	1.05	38.94	38.95	NO	1.000	1.001	49.564	99.1	NO
17	17 OCDF	1.61e5	4.27e5	0.86	NO	0.771	41.67	41.67	NO	1.000	1.000	97.983	98.0	NO
18	18 13C-2,3,7,8-TCDD	5.51e5	4.58e5	0.77	NO	1.10	26.67	26.68	NO	1.027	1.027	109.14	109	NO
19	19 13C-1,2,3,7,8-PeCDD	3.80e5	4.58e5	0.62	NO	0.864	31.05	31.11	NO	1.196	1.198	96.216	96.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	2.77e5	3.86e5	1.31	NO	0.746	34.46	34.47	NO	1.014	1.014	96.169	96.2	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.08e5	3.86e5	1.29	NO	0.847	34.58	34.59	NO	1.017	1.018	94.280	94.3	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.12e5	3.86e5	1.27	NO	0.868	34.88	34.88	NO	1.026	1.026	93.144	93.1	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.21e5	3.86e5	1.08	NO	0.664	38.23	38.28	NO	1.125	1.126	86.054	86.1	NO
24	24 13C-OCDD	3.12e5	3.86e5	0.90	NO	0.561	41.18	41.32	NO	1.211	1.215	144.21	72.1	NO
25	25 13C-2,3,7,8-TCDF	7.81e5	7.33e5	0.79	NO	1.09	26.06	26.06	NO	1.003	1.003	97.586	97.6	NO
26	26 13C-1,2,3,7,8-PeCDF	4.70e5	7.33e5	1.65	NO	0.809	29.78	29.91	NO	1.147	1.152	79.214	79.2	NO
27	27 13C-2,3,4,7,8-PeCDF	5.00e5	7.33e5	1.58	NO	0.803	30.74	30.92	NO	1.184	1.191	85.068	85.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	3.74e5	3.86e5	0.49	NO	1.01	33.54	33.52	NO	0.987	0.986	95.755	95.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.00e5	3.86e5	0.51	NO	1.07	33.67	33.66	NO	0.990	0.990	96.520	96.5	NO
30	30 13C-2,3,4,6,7,8-HxCDF	3.39e5	3.86e5	0.50	NO	0.910	34.36	34.36	NO	1.011	1.011	96.594	96.6	NO
31	31 13C-1,2,3,7,8,9-HxCDF	2.94e5	3.86e5	0.50	NO	0.828	35.43	35.43	NO	1.042	1.042	91.859	91.9	NO

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_2.qld

Last Altered: Saturday, June 05, 2021 10:13:25 AM Pacific Daylight Time

Printed: Saturday, June 05, 2021 10:13:45 AM Pacific Daylight Time

Name: 210604R3_2, Date: 04-Jun-2021, Time: 22:40:33, ID: ST210604R3_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.59e5	3.86e5	0.43	NO	0.661	37.04	37.06	NO	1.090	1.090	101.57	102	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.12e5	3.86e5	0.42	NO	0.566	38.80	38.93	NO	1.141	1.145	97.140	97.1	NO
34	34 13C-OCDF	4.27e5	3.86e5	0.87	NO	0.663	41.57	41.66	NO	1.223	1.226	166.87	83.4	NO
35	35 37Cl-2,3,7,8-TCDD	1.00e5	4.58e5			2.07	26.87	26.70	NO	1.035	1.028	10.605	106	NO
36	36 13C-1,2,3,4-TCDD	4.58e5	4.58e5	0.80	NO	1.00	26.07	25.97	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	7.33e5	7.33e5	0.79	NO	1.00	24.76	24.64	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	3.86e5	3.86e5	0.50	NO	1.00	34.04	33.99	NO	1.000	1.000	100.00	100	YES

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Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Saturday, June 05, 2021 10:44:57 AM Pacific Daylight Time

Printed: Saturday, June 05, 2021 10:46:38 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38

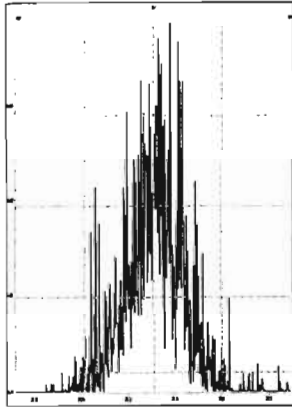
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Compound name: 2,3,7,8-TCDD

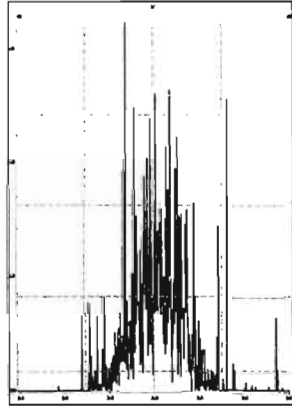
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1	210604R3_2	ST210604R3_1 1613 CS3 21C0105	04-Jun-21	22:40:33
2	210604R3_3	SOLVENT BLANK	04-Jun-21	23:24:49
3	210604R3_4	2105099-01 WC-ST001-051021 11	05-Jun-21	00:09:07
4	210604R3_5	2105099-02 WC-ST002-051021 12.76	05-Jun-21	00:53:25
5	210604R3_6	2105099-03 WC-ST003-051021 13.08	05-Jun-21	01:37:43
6	210604R3_7	2105099-04 WC-ST004-051021 12.34	05-Jun-21	02:22:00
7	210604R3_8	2105099-05 WC-ST1004-051021 13.28	05-Jun-21	03:06:18
8	210604R3_9	2105131-01 051221 South 28.18	05-Jun-21	03:50:53
9	210604R3_10	2105131-02 051221 North 28.88	05-Jun-21	04:35:09
10	210604R3_11	2105042-07 USMPDI-031SC-A-02-03-210504 ...	05-Jun-21	05:19:26
11	210604R3_12	2105042-08 USMPDI-031SC-A-03-04-210504 ...	05-Jun-21	06:03:43
12	210604R3_13	2105042-09 USMPDI-031SC-A-04-05-210504 ...	05-Jun-21	06:48:02
13	210604R3_14	2105042-10 USMPDI-035SC-A-01-02-210504 ...	05-Jun-21	07:32:20
14	210604R3_15	2105042-11 USMPDI-035SC-A-02-03-210504 ...	05-Jun-21	08:16:37
15	210604R3_16	2105042-12 USMPDI-035SC-A-03-04-210504 ...	05-Jun-21	09:00:53
16	210604R3_17	2105042-13 USMPDI-035SC-A-04-05-210504 ...	05-Jun-21	09:45:10

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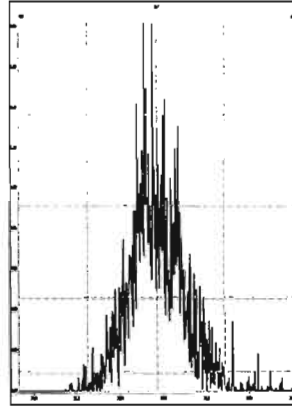
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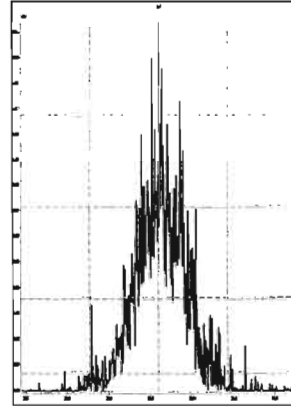
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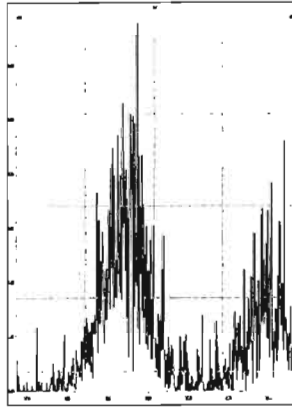
M 318.9792 R 16723



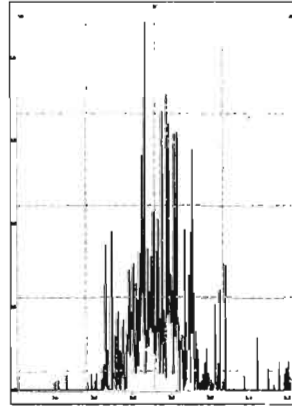
M 330.9792 R 14576



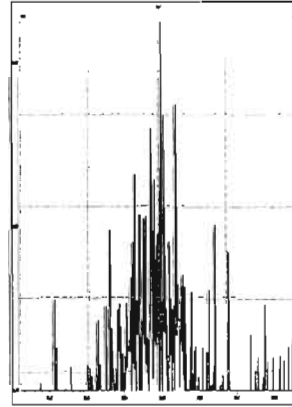
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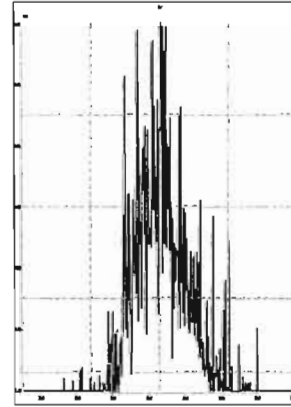
M 354.9792 R 28912



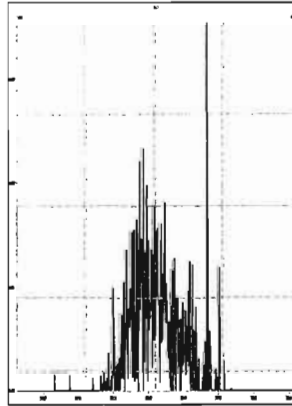
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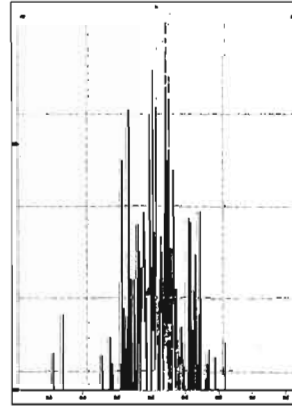
M 380.9760 R 16726



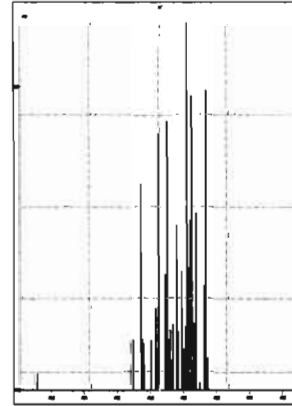
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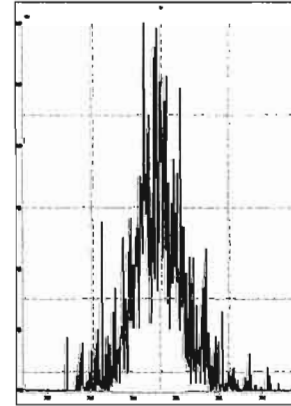
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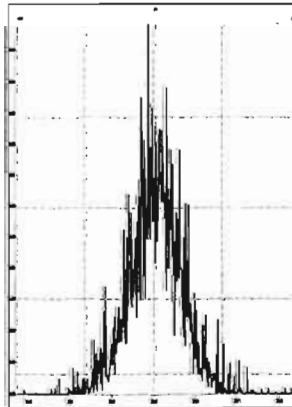
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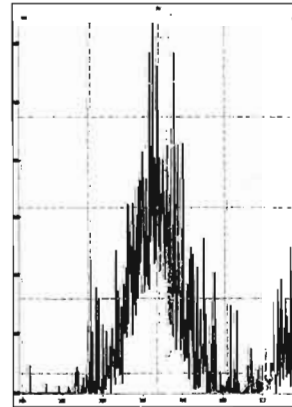
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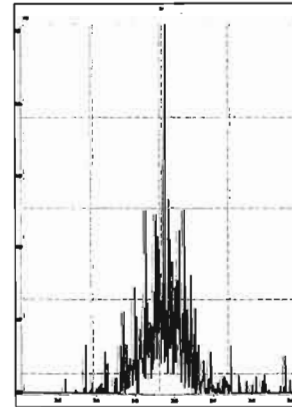
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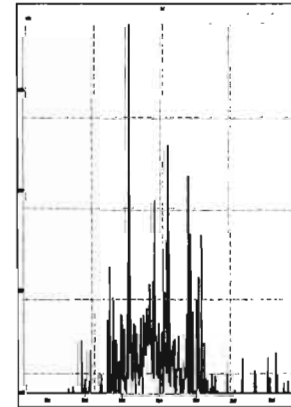
M 342.9792 R 18343



M 354.9792 R 25396

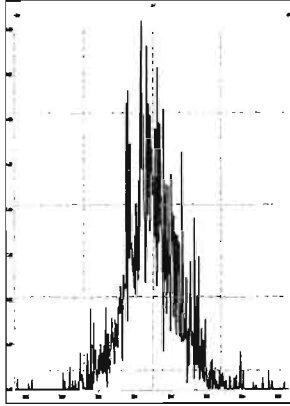


M 366.9792 R 153958

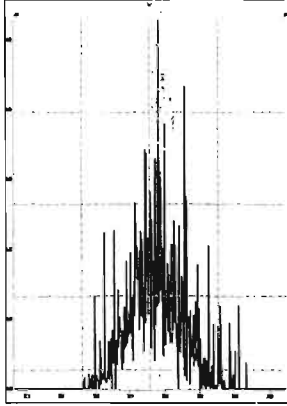


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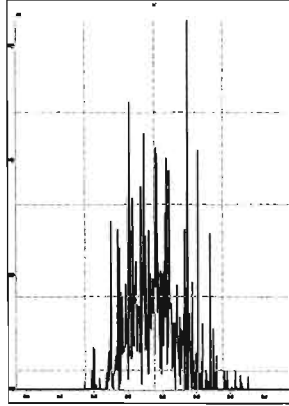
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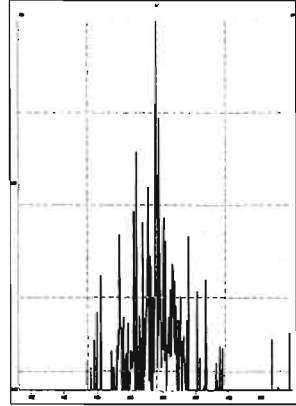
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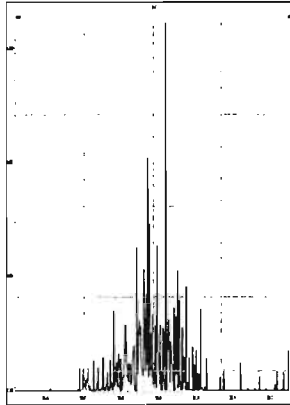
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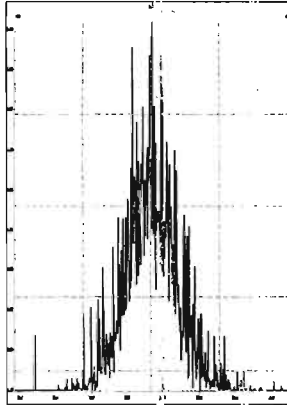
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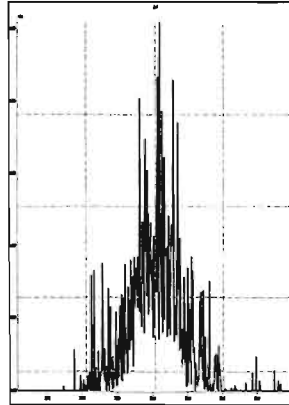
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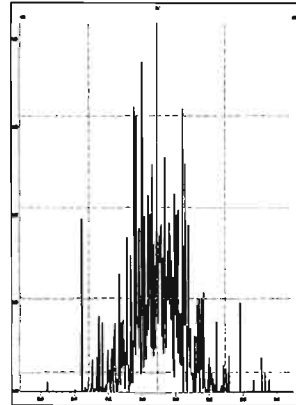
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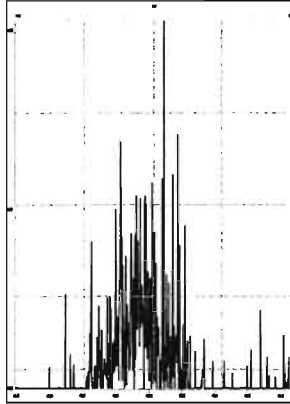
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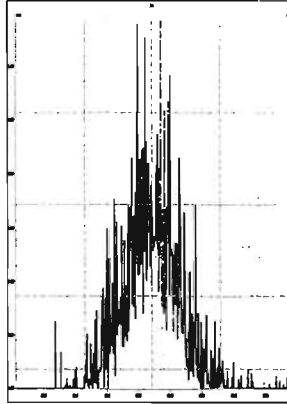
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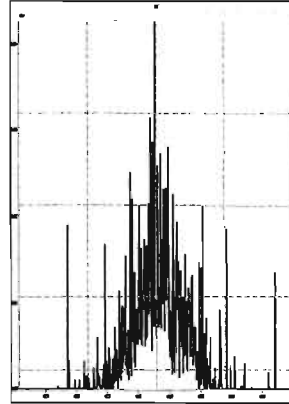
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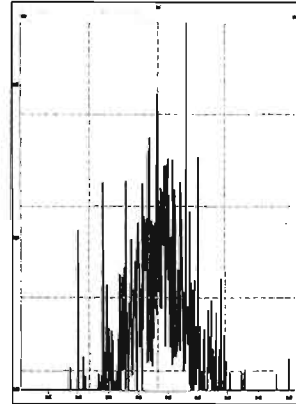
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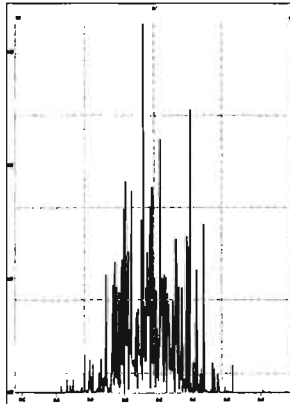
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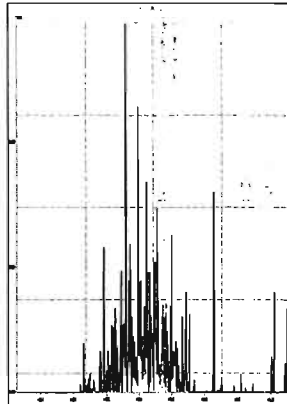
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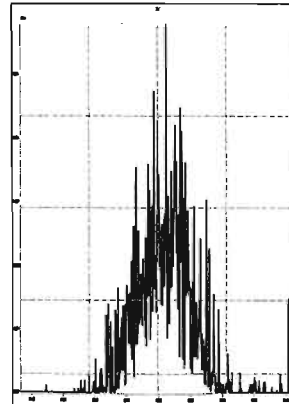
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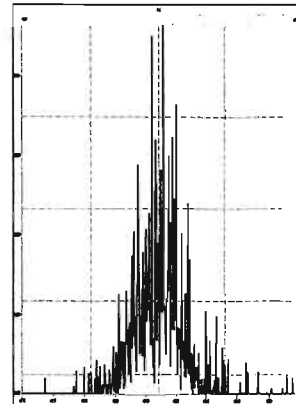
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M 430.9728 R 15808

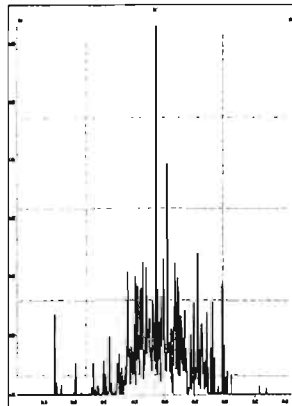


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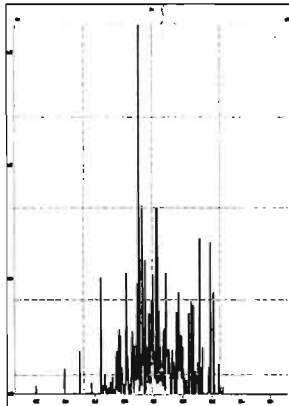


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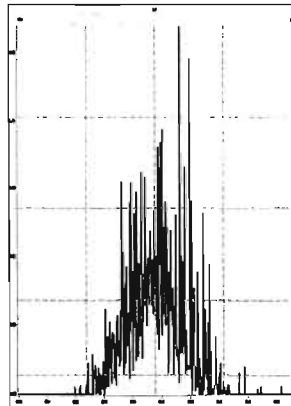
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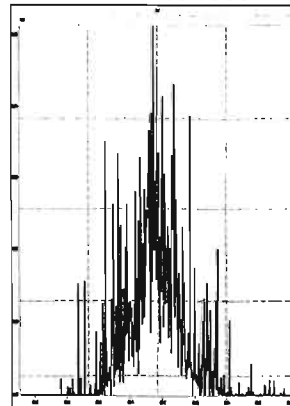
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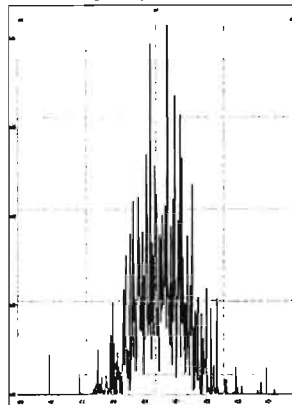
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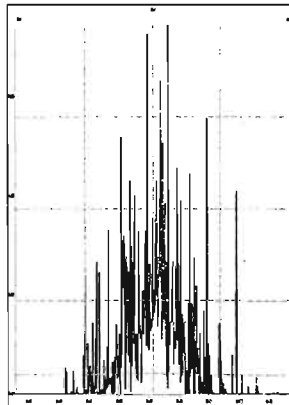
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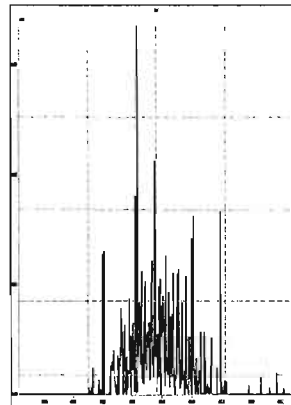
M 442.9728 R 22635



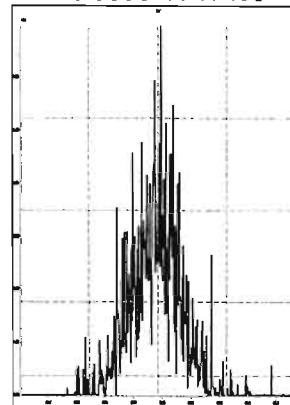
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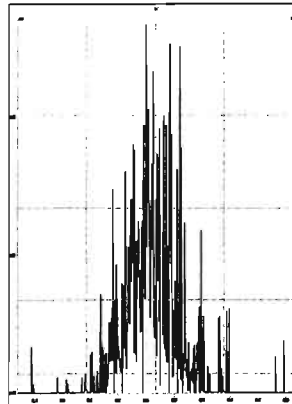
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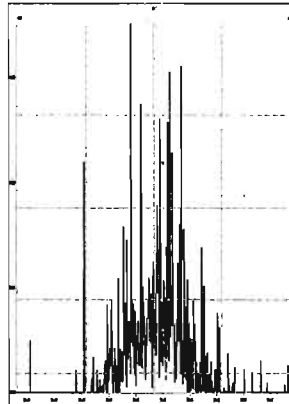
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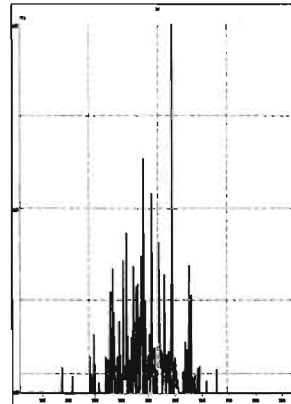
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M 504.9696 R 39062



M 516.9697 R 292206



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_CPSM.qld

Last Altered: Saturday, June 05, 2021 10:01:50 AM Pacific Daylight Time

Printed: Saturday, June 05, 2021 10:02:27 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210604R3_2, Date: 04-Jun-2021, Time: 22:40:33, ID: ST210604R3_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1 1,3,6,8-TCDD (First)	23.27
2	2 1,2,8,9-TCDD (Last)	27.52
3	3 1,2,4,7,9-PeCDD (First)	28.95
4	4 1,2,3,8,9-PeCDD (Last)	31.47
5	5 1,2,4,6,7,9-HxCDD (First)	32.75
6	6 1,2,3,7,8,9-HxCDD (Last)	34.90
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.40
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.29
9	9 1,3,6,8-TCDF (First)	21.15
10	10 1,2,8,9-TCDF (Last)	27.83
11	11 1,3,4,6,8-PeCDF (First)	27.39
12	12 1,2,3,8,9-PeCDF (Last)	31.83
13	13 1,2,3,4,6,8-HxCDF (First)	32.22
14	14 1,2,3,7,8,9-HxCDF (Last)	35.45
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.08
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.95

Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_CPSM.qld

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Printed: Saturday, June 05, 2021 10:02:27 AM Pacific Daylight Time

FIN 06/05/21

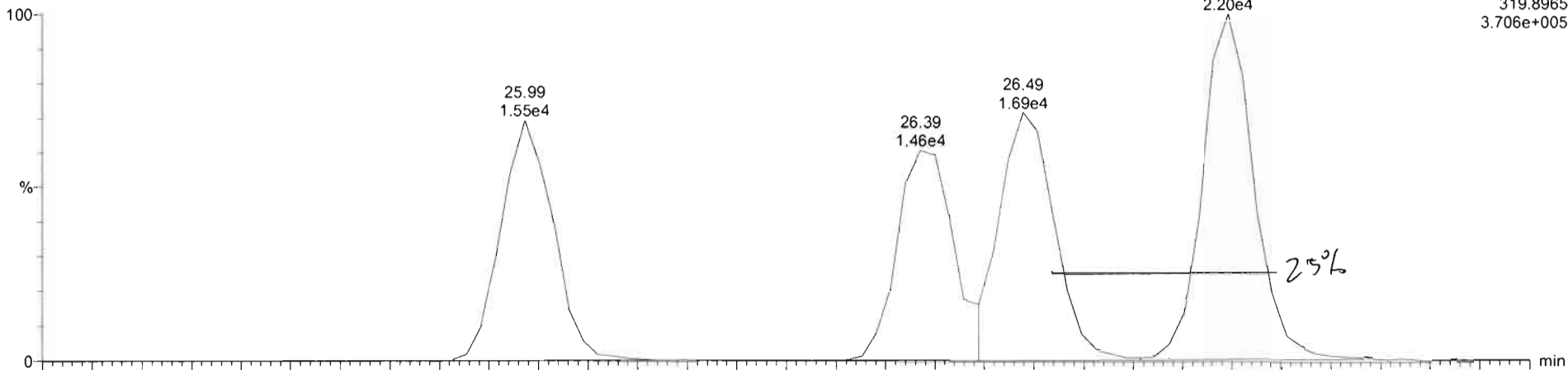
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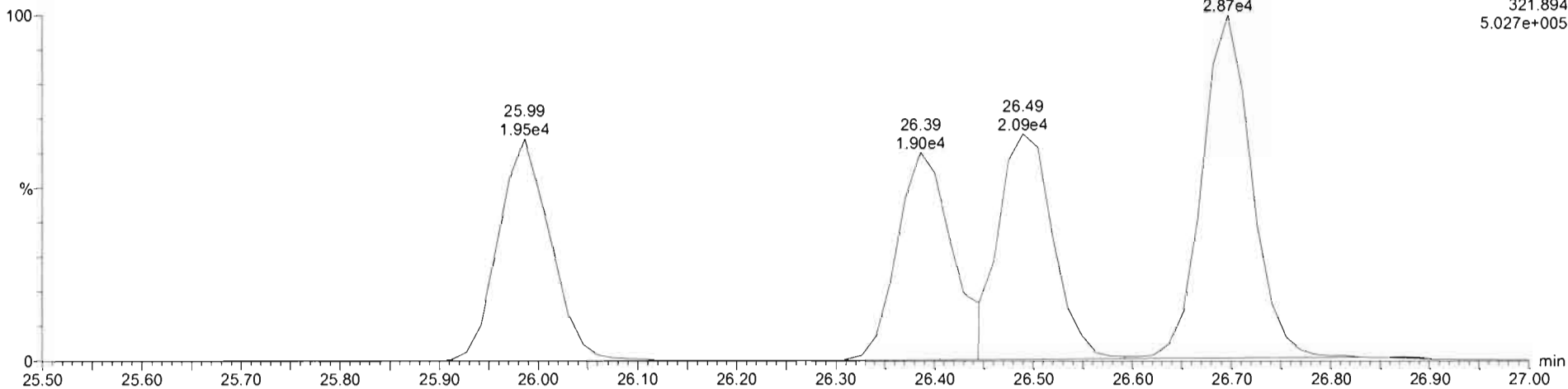
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1,3,6,8-TCDD (First)

210604R3_2



210604R3_2



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\210604R3\210604R3_CPSM.qld

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Printed: Saturday, June 05, 2021 10:02:27 AM Pacific Daylight Time

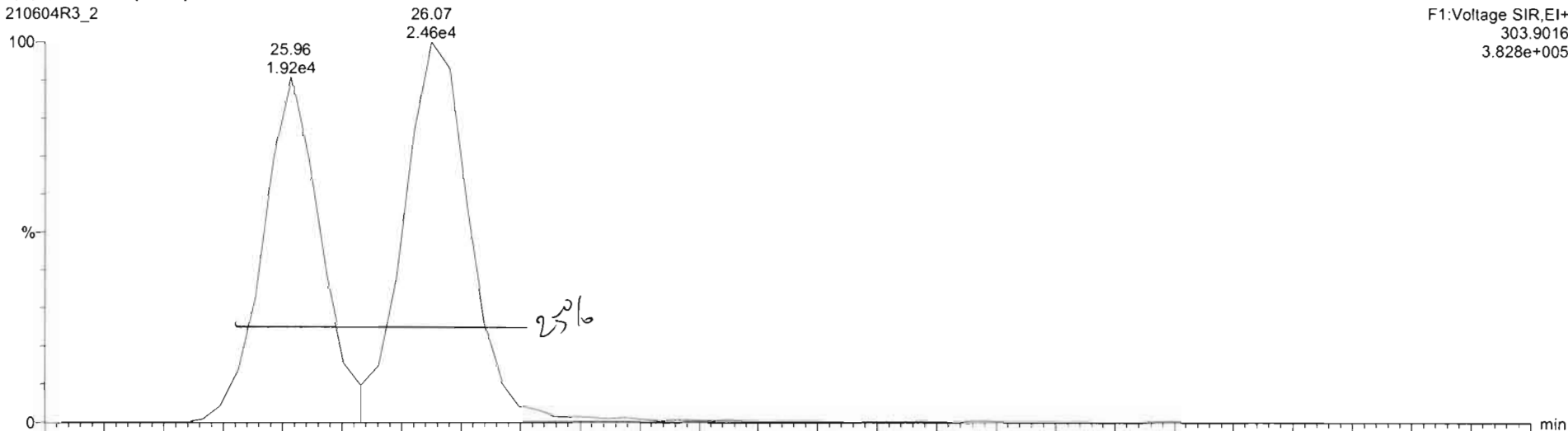
H/W 06/05/21

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1,3,6,8-TCDF (First)

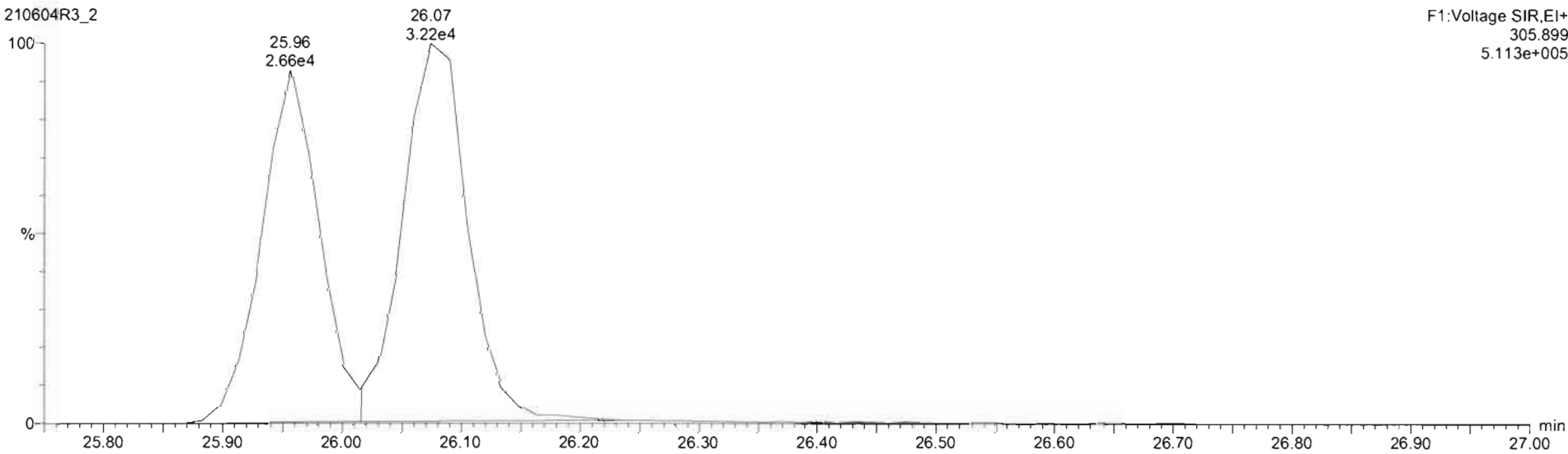
210604R3_2

F1:Voltage SIR,EI+
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3.828e+005



210604R3_2

F1:Voltage SIR,EI+
305.899
5.113e+005



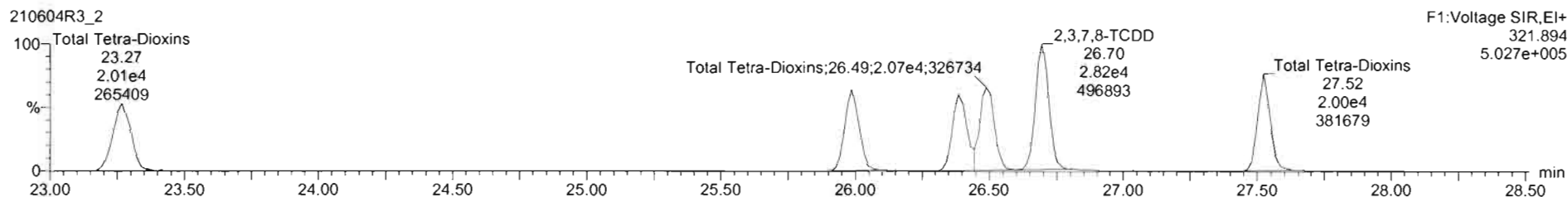
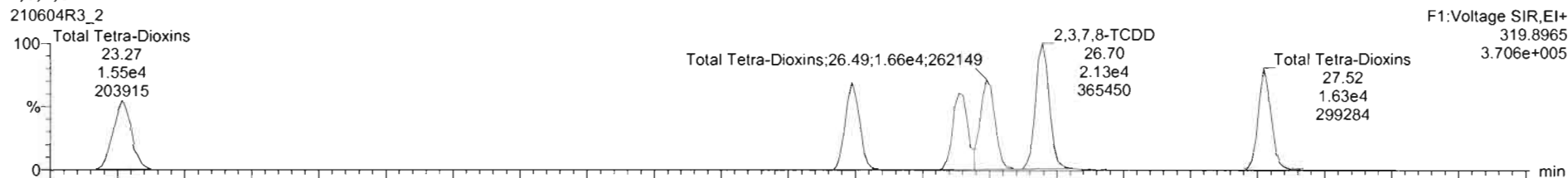
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Printed: Saturday, June 05, 2021 10:01:43 AM Pacific Daylight Time

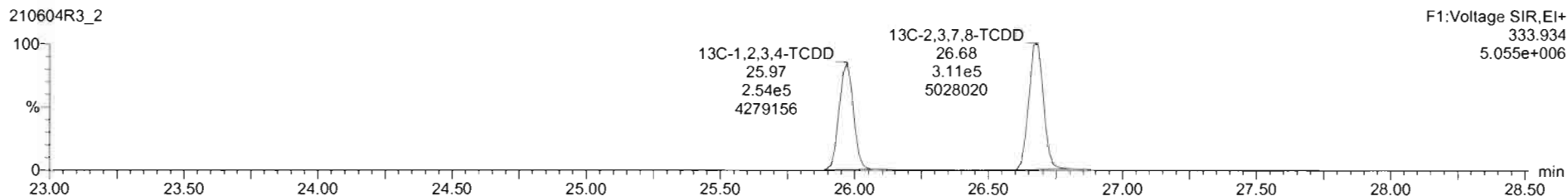
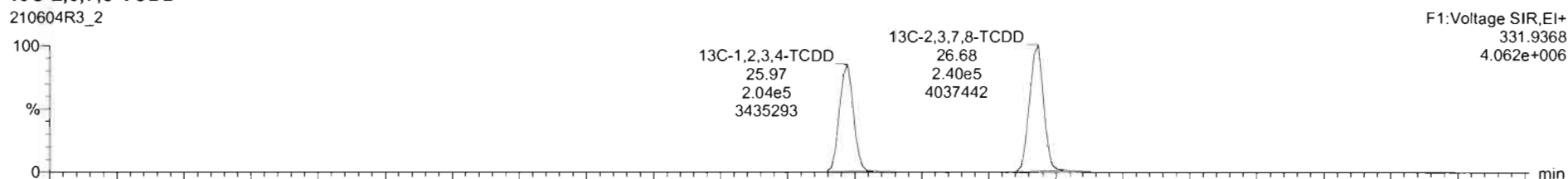
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Name: 210604R3_2, Date: 04-Jun-2021, Time: 22:40:33, ID: ST210604R3_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD



13C-2,3,7,8-TCDD



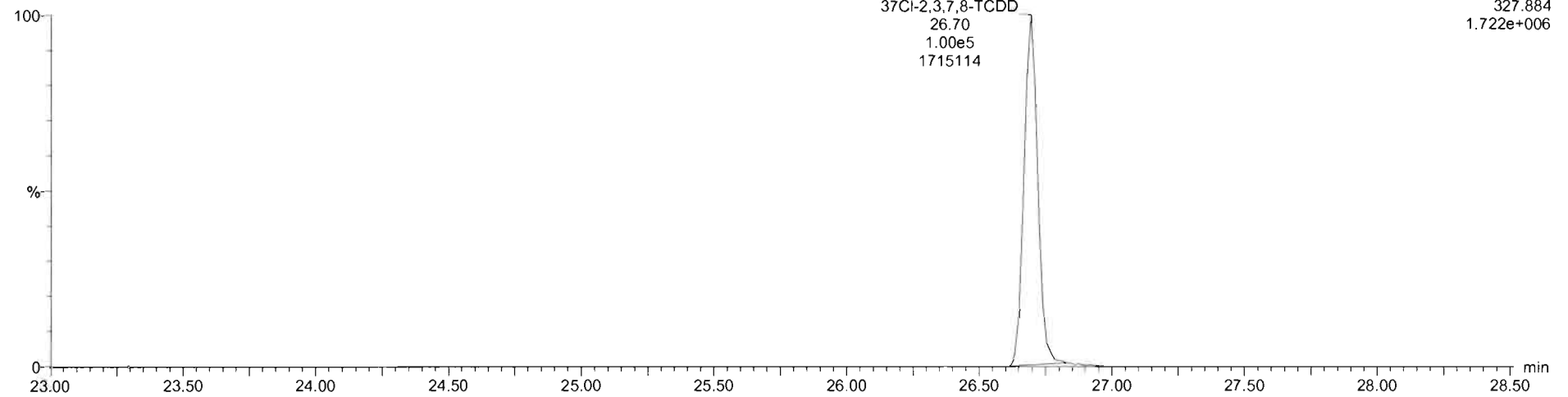
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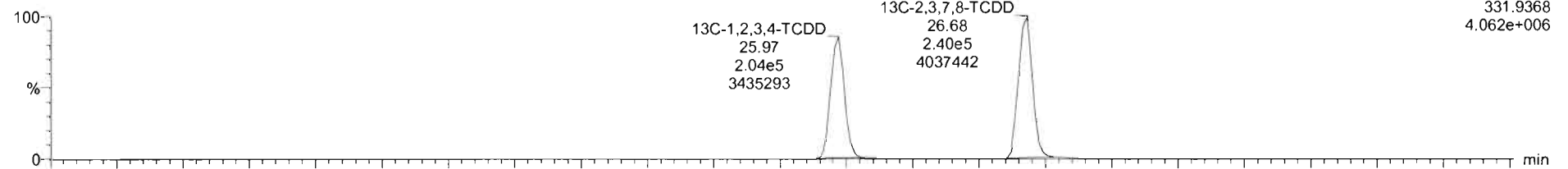
37Cl-2,3,7,8-TCDD

210604R3_2

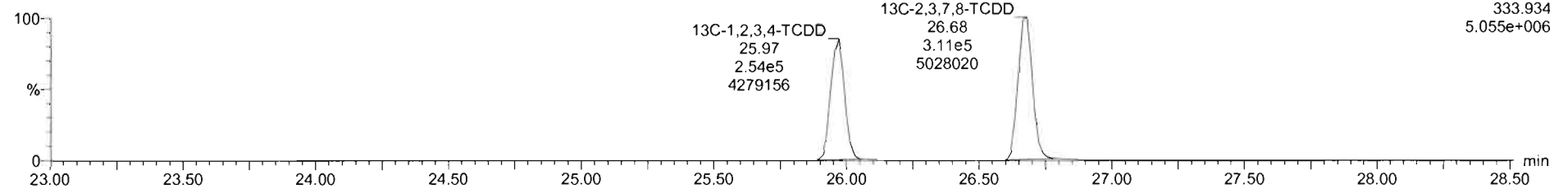


13C-1,2,3,4-TCDD

210604R3_2



210604R3_2



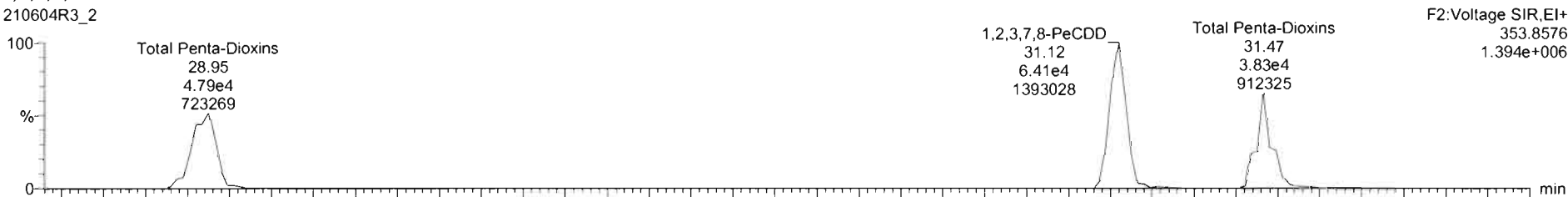
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Printed: Saturday, June 05, 2021 10:01:43 AM Pacific Daylight Time

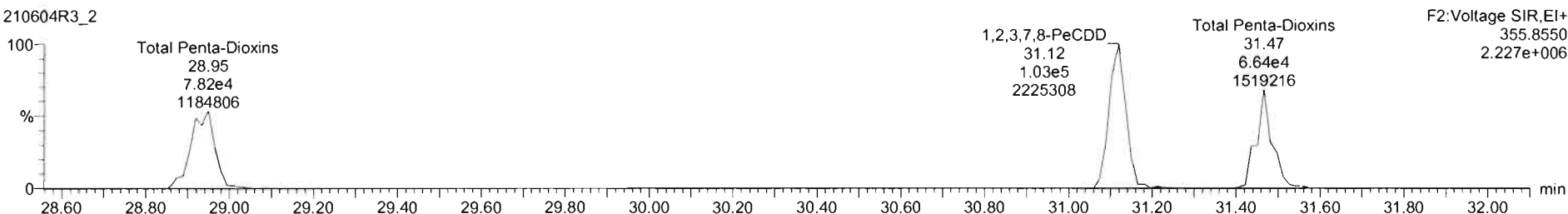
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1,2,3,7,8-PeCDD

210604R3_2

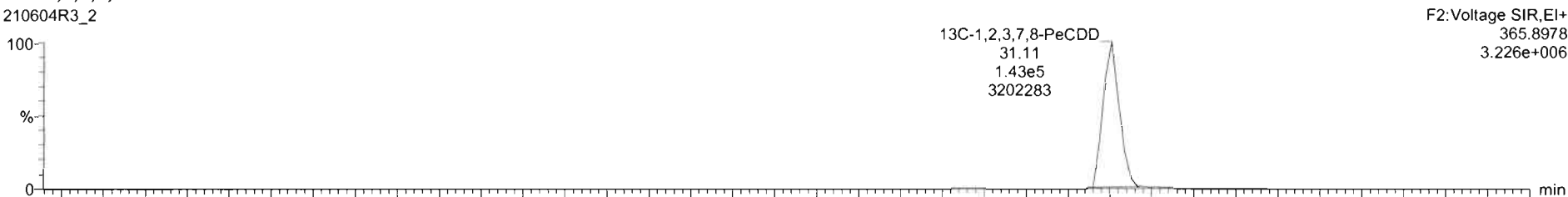


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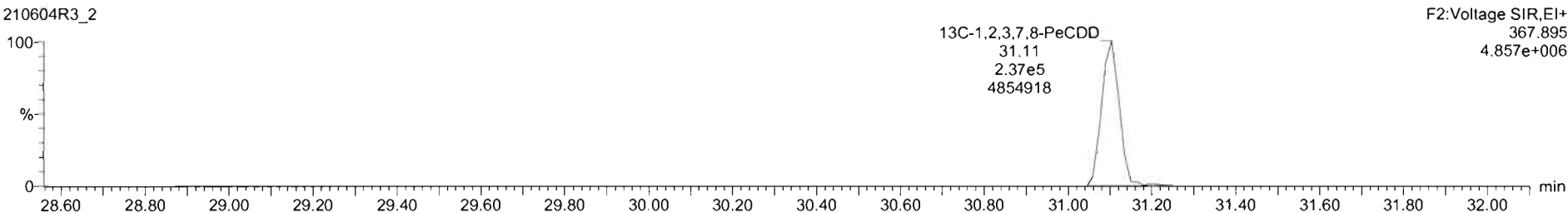


13C-1,2,3,7,8-PeCDD

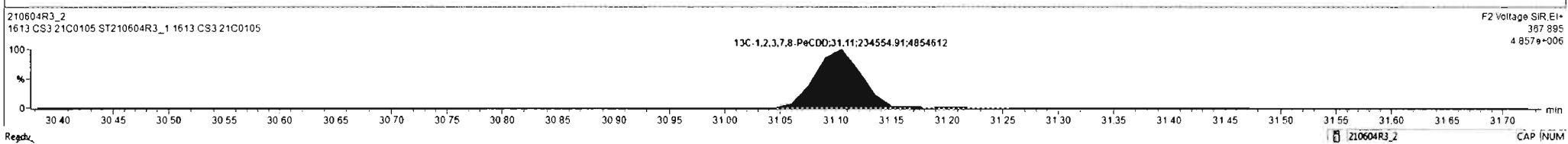
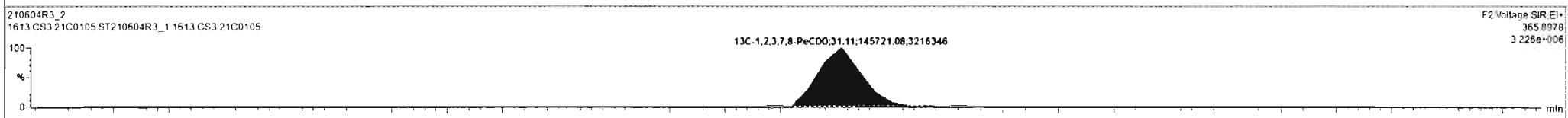
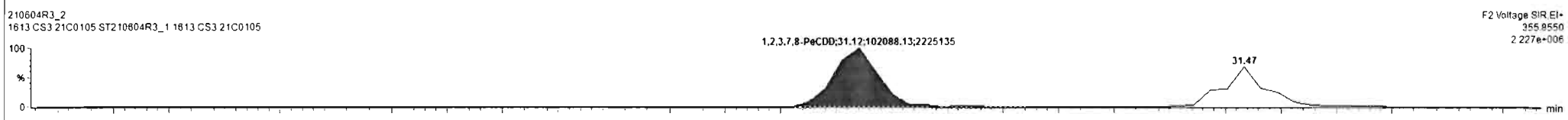
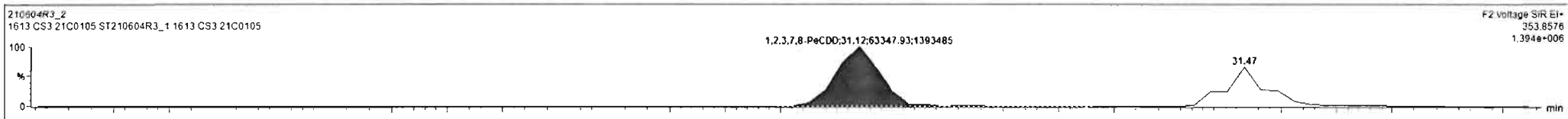
210604R3_2



210604R3_2



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	4.95e4	5.51e5	0.77	0.76	NO	0.9291	26.71	26.70	NO	1.001	1.001	9.86	96.6	NO
2	1,2,3,7,8-PeCDD	1.65e5	3.00e5	0.63	0.62	NO	0.8287	31.14	31.12	NO	1.001	1.000	52.7	105	NO
3	1,2,3,4,7,8-HxCDD	1.38e5	2.77e5	1.24	1.25	NO	0.9725	34.49	34.48	NO	1.001	1.000	51.1	102	NO
4	1,2,3,6,7,8-HxCDD	1.39e5	3.08e5	1.24	1.27	NO	0.8771	34.61	34.60	NO	1.001	1.000	51.4	103	NO
5	1,2,3,7,8,9-HxCDD	1.42e5	3.12e5	1.24	1.26	NO	0.8739	34.90	34.90	NO	1.000	1.000	52.1	104	NO
6	1,2,3,4,6,7,8-HpCDD	9.83e4	2.21e5	1.04	1.06	NO	0.8987	38.29	38.29	NO	1.000	1.000	49.5	99.1	NO
7	OCDD	1.38e5	3.14e5	0.89	0.90	NO	0.8524	41.33	41.33	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	5.64e4	7.81e5	0.77	0.76	NO	0.7466	26.06	26.08	NO	1.000	1.001	9.86	96.6	NO
9	1,2,3,7,8-PeCDF	2.24e5	4.70e5	1.55	1.58	NO	0.8771	29.92	29.93	NO	1.000	1.001	54.5	109	NO
10	2,3,4,7,8-PeCDF	2.22e5	5.00e5	1.55	1.59	NO	0.9621	30.95	30.94	NO	1.001	1.000	46.1	92.1	NO
11	1,2,3,4,7,8-HxCDF	1.72e5	3.74e5	1.24	1.24	NO	0.9202	33.53	33.53	NO	1.000	1.000	49.9	99.8	NO
12	1,2,3,6,7,8-HxCDF	1.82e5	4.00e5	1.24	1.24	NO	0.9363	33.68	33.67	NO	1.001	1.000	48.6	97.2	NO
13	2,3,4,6,7,8-HxCDF	1.85e5	3.39e5	1.24	1.22	NO	0.9725	34.38	34.37	NO	1.001	1.000	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	1.39e5	2.94e5	1.24	1.22	NO	0.9396	35.44	35.45	NO	1.000	1.001	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.35e5	2.59e5	1.04	1.03	NO	1.0461	37.08	37.08	NO	1.000	1.001	49.6	99.1	NO
16	1,2,3,4,7,8,9-HpCDF	1.10e5	2.12e5	1.04	1.04	NO	1.0453	38.94	38.95	NO	1.000	1.001	49.6	99.1	NO
17	OCDF	1.61e5	4.27e5	0.89	0.86	NO	0.7712	41.67	41.67	NO	1.000	1.000	88.0	88.0	NO
18	13C-2,3,7,8-TCDD	5.51e5	4.58e5	0.77	0.77	NO	1.1040	26.67	26.68	NO	1.027	1.027	109	109	NO



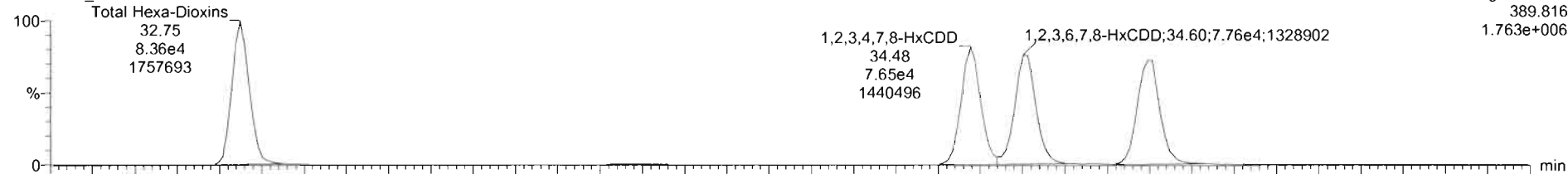
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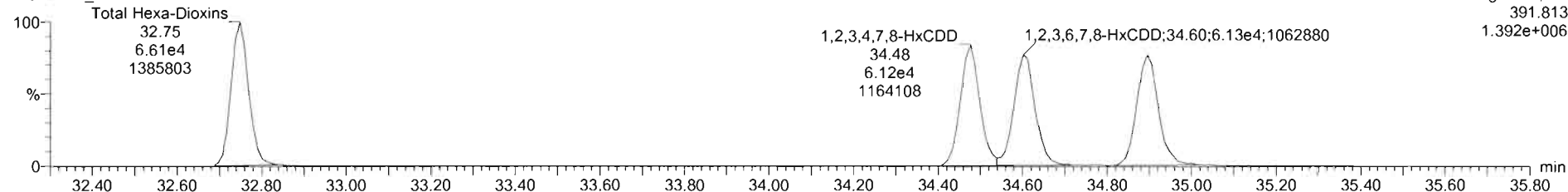
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1,2,3,4,7,8-HxCDD

210604R3_2

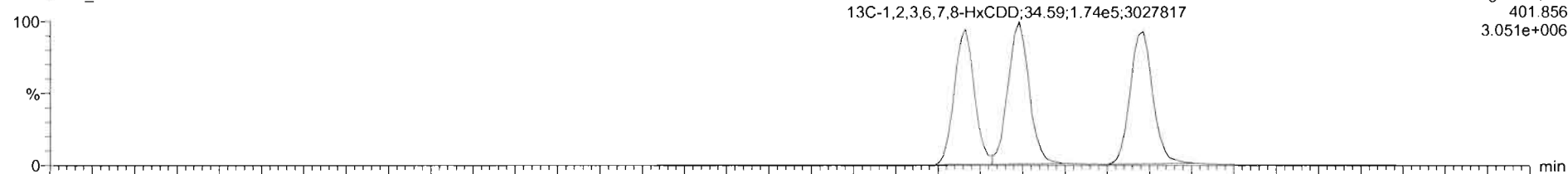


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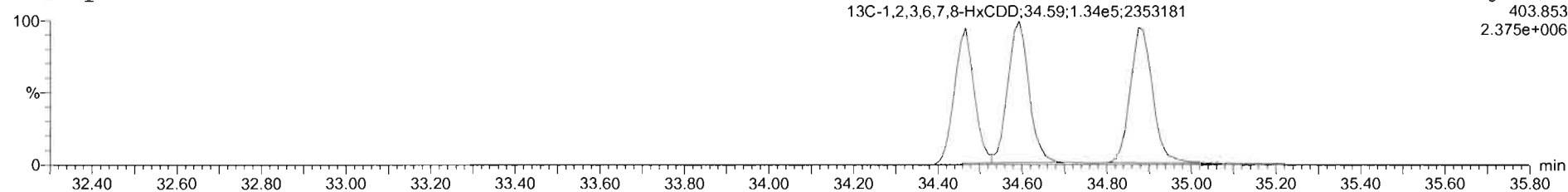


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210604R3_2



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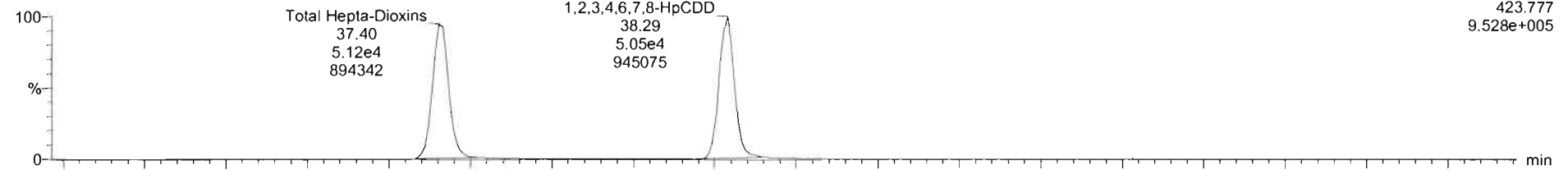
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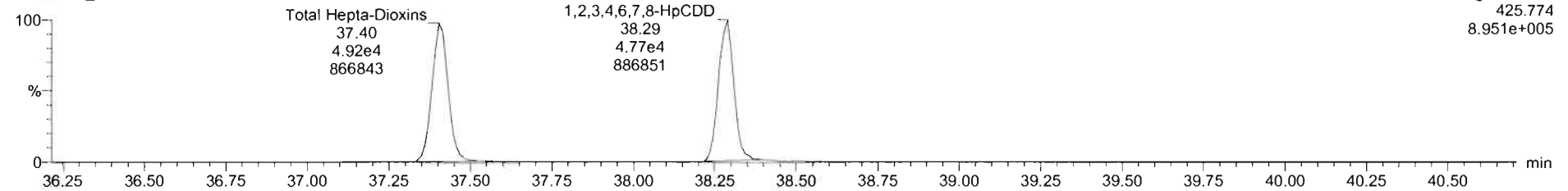
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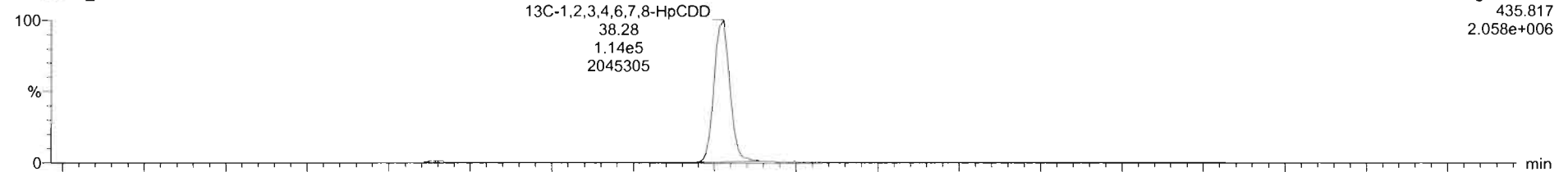


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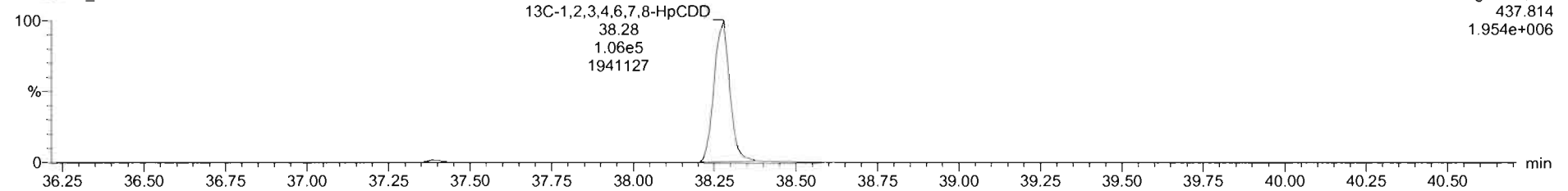


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210604R3_2



210604R3_2



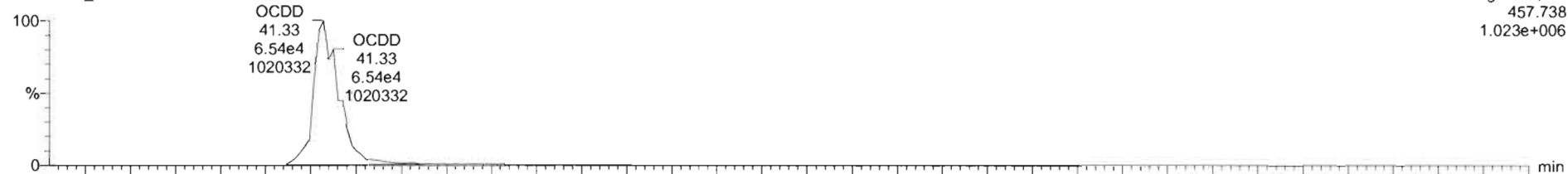
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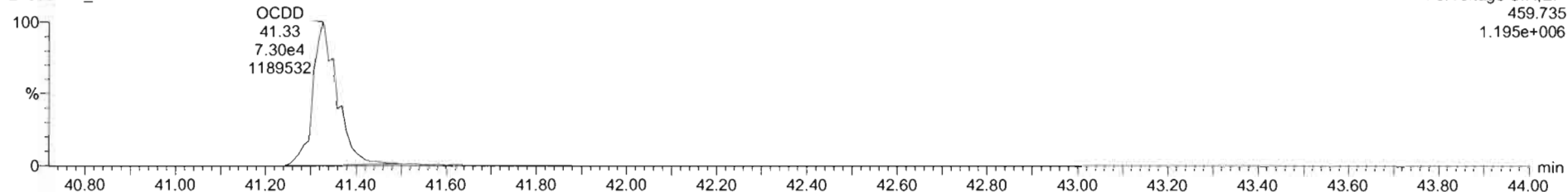
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OCDD

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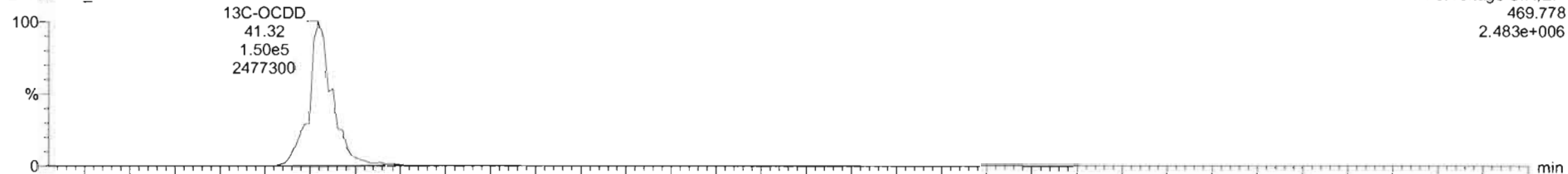


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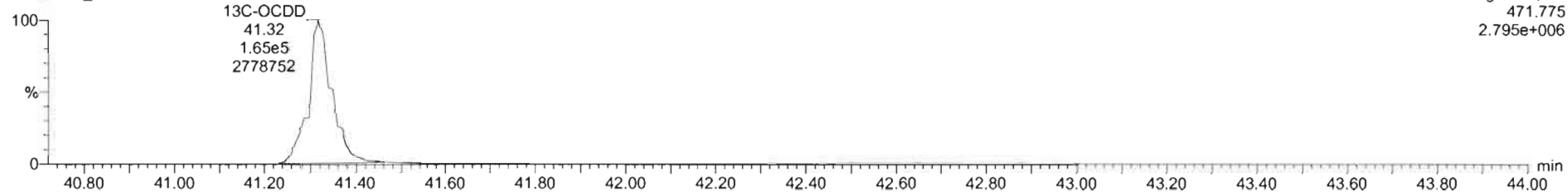


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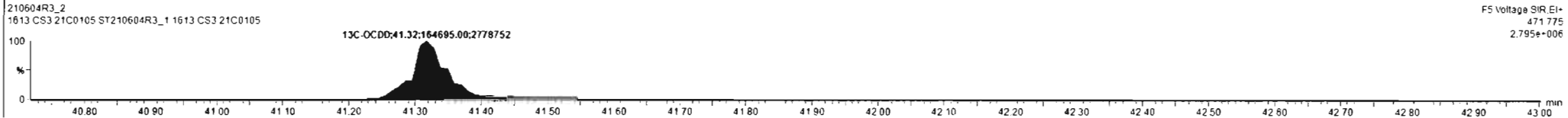
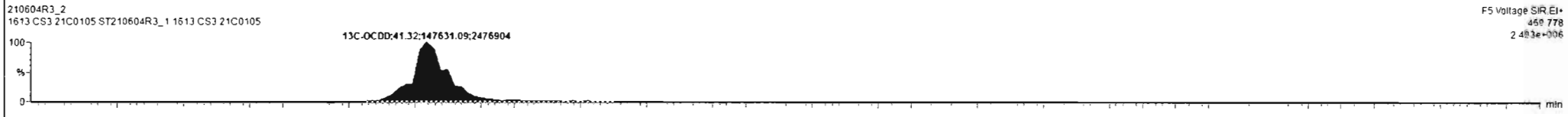
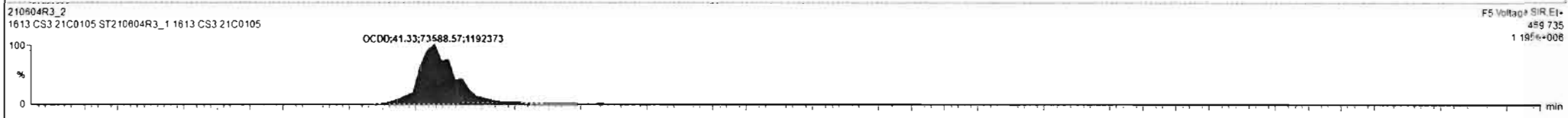
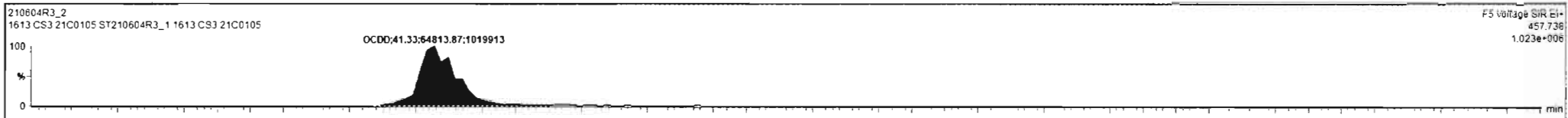
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210604R3_2



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	4.95e4	5.51e5	0.77	0.76	NO	0.9291	26.71	26.70	NO	1.001	1.001	9.66	96.6	NO
2	1,2,3,7,8-PeCDD	1.65e5	3.80e5	0.63	0.62	NO	0.8257	31.14	31.12	NO	1.001	1.000	52.7	105	NO
3	1,2,3,4,7,8-HxCDD	1.38e5	2.77e5	1.24	1.25	NO	0.9725	34.49	34.48	NO	1.001	1.000	51.1	102	NO
4	1,2,3,6,7,8-HxCDD	1.39e5	3.08e5	1.24	1.27	NO	0.8771	34.61	34.60	NO	1.001	1.000	51.4	103	NO
5	1,2,3,7,8,9-HxCDD	1.42e5	3.12e5	1.24	1.26	NO	0.8739	34.90	34.90	NO	1.000	1.000	52.1	104	NO
6	1,2,3,4,6,7,8-HpCDD	9.83e4	2.21e5	1.04	1.06	NO	0.8987	38.29	38.29	NO	1.000	1.000	49.5	99.1	NO
7	OCDD	1.38e5	3.12e5	0.89	0.88	NO	0.8524	41.33	41.33	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	5.64e4	7.81e5	0.77	0.76	NO	0.7468	26.06	26.08	NO	1.000	1.001	9.66	96.6	NO
9	1,2,3,7,8-PeCDF	2.24e5	4.70e5	1.55	1.58	NO	0.8771	29.92	29.93	NO	1.000	1.001	54.5	109	NO
10	2,3,4,7,8-PeCDF	2.22e5	5.00e5	1.55	1.59	NO	0.9621	30.85	30.94	NO	1.001	1.000	48.1	92.1	NO
11	1,2,3,4,7,8-HxCDF	1.72e5	3.74e5	1.24	1.24	NO	0.9202	33.53	33.53	NO	1.000	1.000	49.9	99.8	NO
12	1,2,3,6,7,8-HxCDF	1.82e5	4.00e5	1.24	1.24	NO	0.9363	33.68	33.67	NO	1.001	1.000	48.6	97.2	NO
13	2,3,4,6,7,8-HxCDF	1.65e5	3.39e5	1.24	1.22	NO	0.9725	34.38	34.37	NO	1.001	1.000	48.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	1.39e5	2.94e5	1.24	1.22	NO	0.9396	35.44	35.45	NO	1.000	1.001	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.35e5	2.59e5	1.04	1.03	NO	1.0481	37.08	37.08	NO	1.000	1.001	49.6	99.1	NO
16	1,2,3,4,7,8,9-HpCDF	1.10e5	2.12e5	1.04	1.04	NO	1.0453	38.94	38.95	NO	1.000	1.001	49.6	99.1	NO
17	OCDF	1.61e5	4.27e5	0.89	0.86	NO	0.7712	41.67	41.67	NO	1.000	1.000	98.0	98.0	NO
18	13C-2,3,7,8-TCDD	5.51e5	4.58e5	0.77	0.77	NO	1.1040	26.67	26.68	NO	1.027	1.027	109	109	NO



Readv. 42.70 42.80 42.90 43.00 1 210604R3_2 CAP NUM

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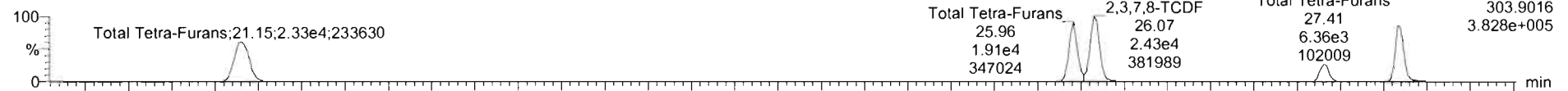
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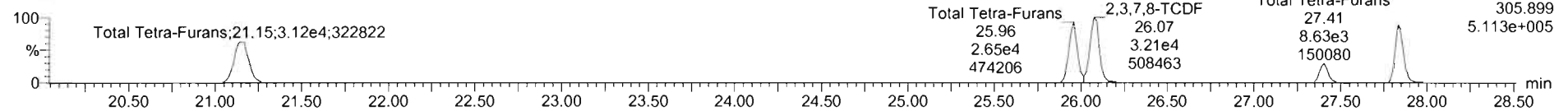
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2,3,7,8-TCDF

210604R3_2

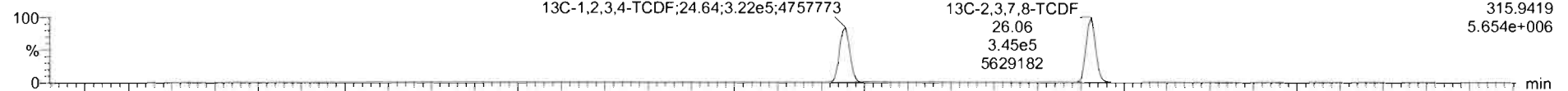


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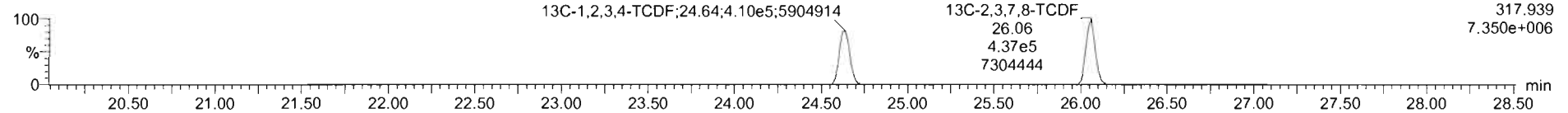


13C-2,3,7,8-TCDF

210604R3_2

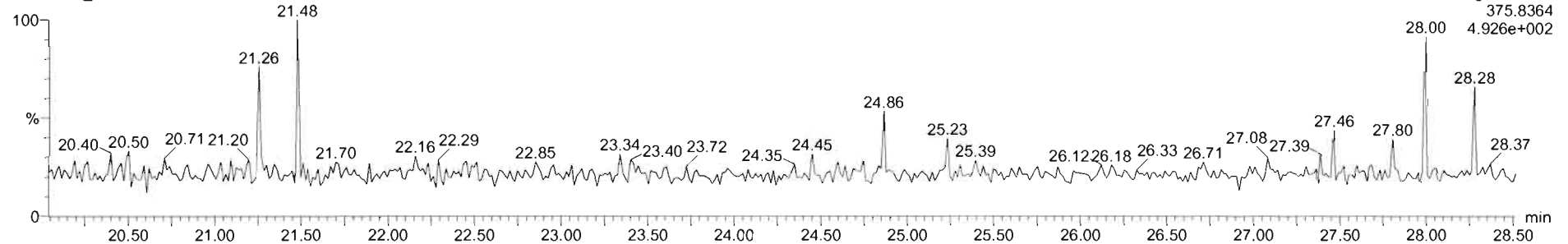


210604R3_2



DPE1

210604R3_2



Dataset: U:\VG12.PRO\Results\210604R3\210604R3_2.qld

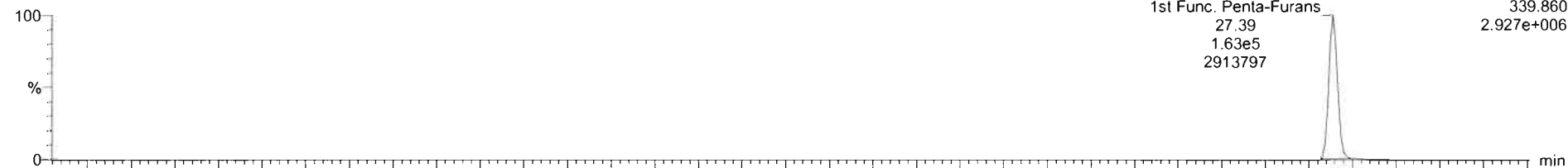
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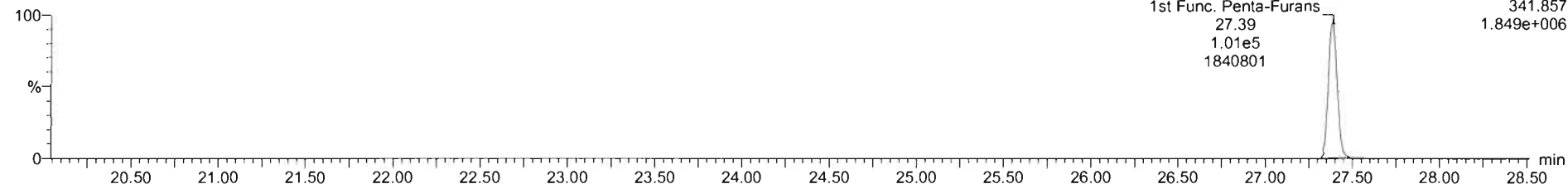
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1st Func. Penta-Furans

210604R3_2

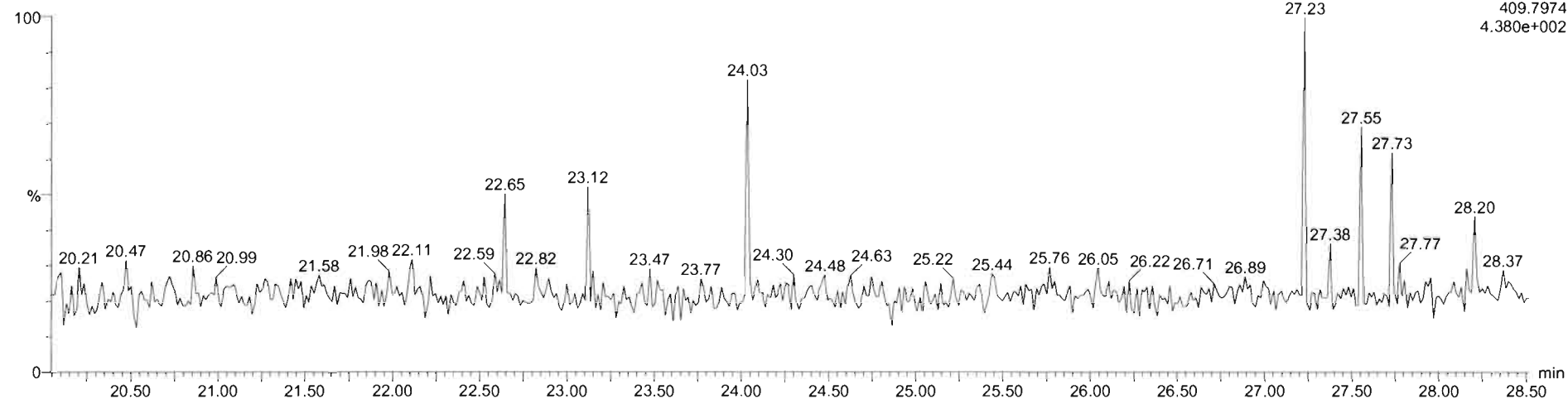


210604R3_2



DPE6

210604R3_2



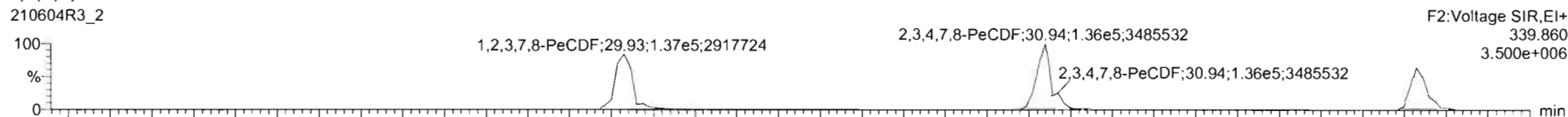
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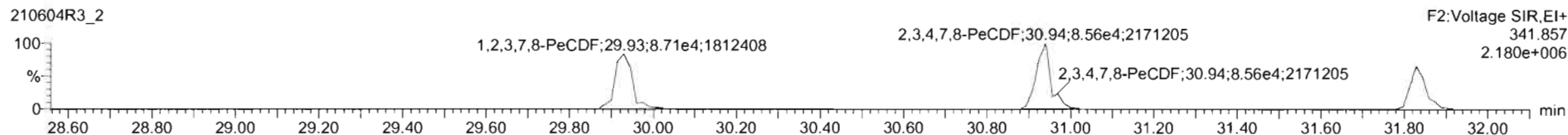
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1,2,3,7,8-PeCDF

210604R3_2

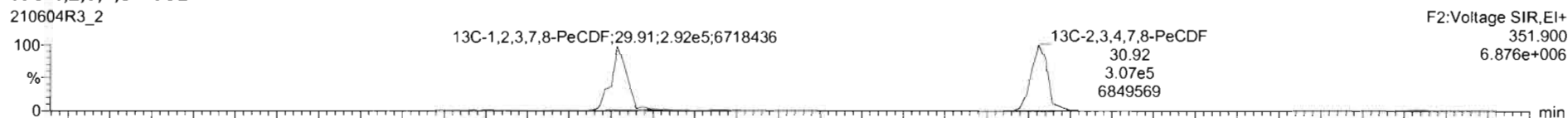


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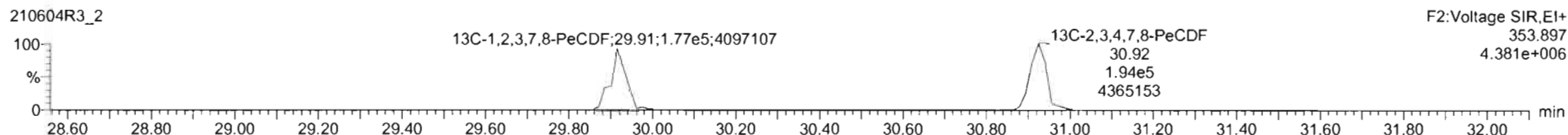


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210604R3_2

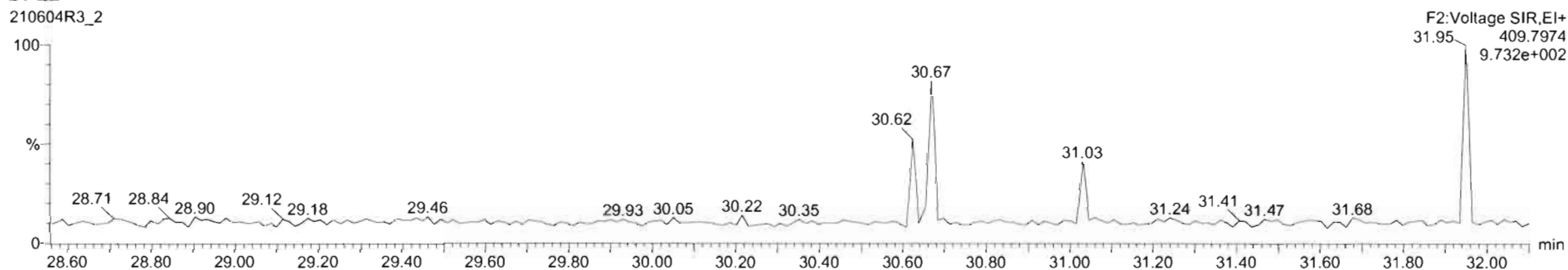


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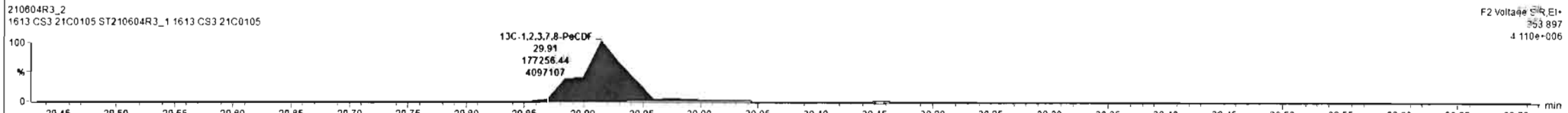
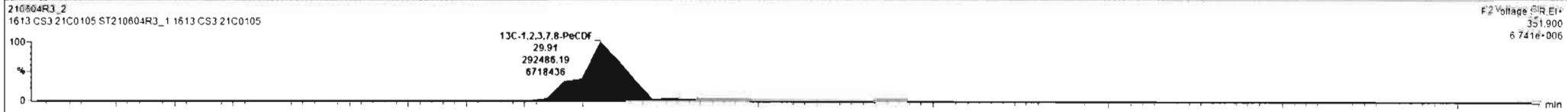


DPE2

210604R3_2



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	4.95e4	5.51e5	0.77	0.76	NO	0.9291	26.71	26.70	NO	1.001	1.001	9.66	96.6	NO
2	1,2,3,7,8-PeCDD	1.65e5	3.80e5	0.63	0.62	NO	0.8257	31.14	31.12	NO	1.001	1.000	52.7	105	NO
3	1,2,3,4,7,8-HxCDD	1.38e5	2.77e5	1.24	1.25	NO	0.9725	34.49	34.48	NO	1.001	1.000	51.1	102	NO
4	1,2,3,6,7,8-HxCDD	1.39e5	3.08e5	1.24	1.27	NO	0.8771	34.61	34.60	NO	1.001	1.000	51.4	103	NO
5	1,2,3,7,8,9-HxCDD	1.42e5	3.12e5	1.24	1.26	NO	0.8739	34.90	34.90	NO	1.000	1.000	52.1	104	NO
6	1,2,3,4,6,7,8-HpCDD	9.83e4	2.21e5	1.04	1.06	NO	0.8987	38.29	38.29	NO	1.000	1.000	49.5	99.1	NO
7	OCDD	1.30e5	3.12e5	0.89	0.88	NO	0.8524	41.33	41.33	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	5.84e4	7.81e5	0.77	0.76	NO	0.7466	26.06	26.08	NO	1.000	1.001	9.66	96.6	NO
9	1,2,3,7,8-PeCDF	2.25e5	4.70e5	1.55	1.59	NO	0.8771	29.92	29.93	NO	1.000	1.001	54.5	109	NO
10	2,3,4,7,8-PeCDF	2.22e5	5.00e5	1.55	1.59	NO	0.9621	30.95	30.94	NO	1.001	1.000	46.1	92.1	NO
11	1,2,3,4,7,8-HxCDF	1.72e5	3.74e5	1.24	1.24	NO	0.9202	33.53	33.53	NO	1.000	1.000	49.9	99.8	NO
12	1,2,3,6,7,8-HxCDF	1.82e5	4.00e5	1.24	1.24	NO	0.9363	33.68	33.67	NO	1.001	1.000	48.6	97.2	NO
13	2,3,4,6,7,8-HxCDF	1.65e5	3.39e5	1.24	1.22	NO	0.9725	34.38	34.37	NO	1.001	1.000	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	1.39e5	2.94e5	1.24	1.22	NO	0.9396	35.44	35.45	NO	1.000	1.001	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.35e5	2.59e5	1.04	1.03	NO	1.0481	37.08	37.08	NO	1.000	1.001	49.6	99.1	NO
16	1,2,3,4,7,8,9-HpCDF	1.10e5	2.12e5	1.04	1.04	NO	1.0453	38.94	38.95	NO	1.000	1.001	49.6	99.1	NO
17	OCDF	1.61e5	4.27e5	0.89	0.86	NO	0.7712	41.67	41.67	NO	1.000	1.000	96.0	98.0	NO
18	13C-2,3,7,8-TCDD	5.51e5	4.58e5	0.77	0.77	NO	1.1040	26.67	26.68	NO	1.027	1.027	109	109	NO



210604R3_2 CAP NUM

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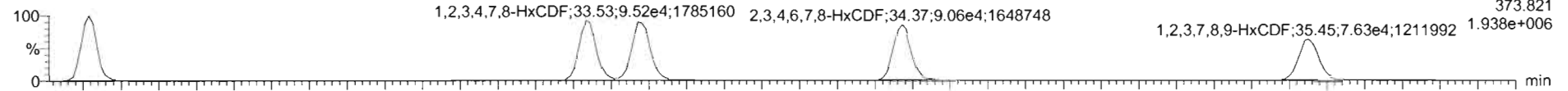
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Printed: Saturday, June 05, 2021 10:01:43 AM Pacific Daylight Time

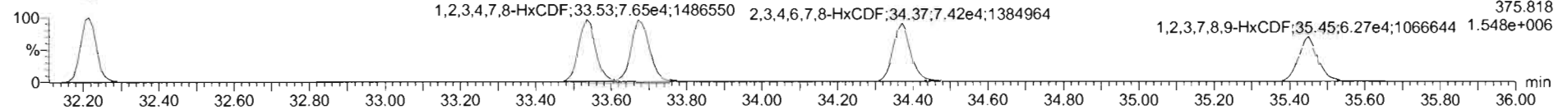
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1,2,3,4,7,8-HxCDF

210604R3_2

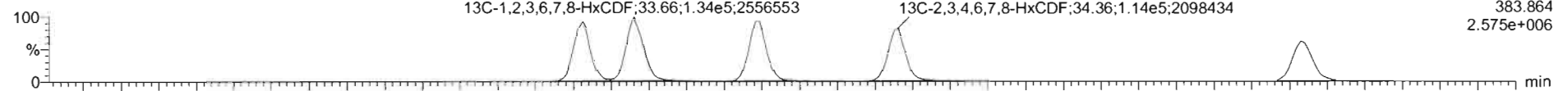


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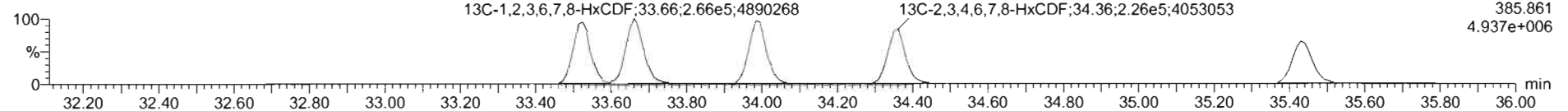


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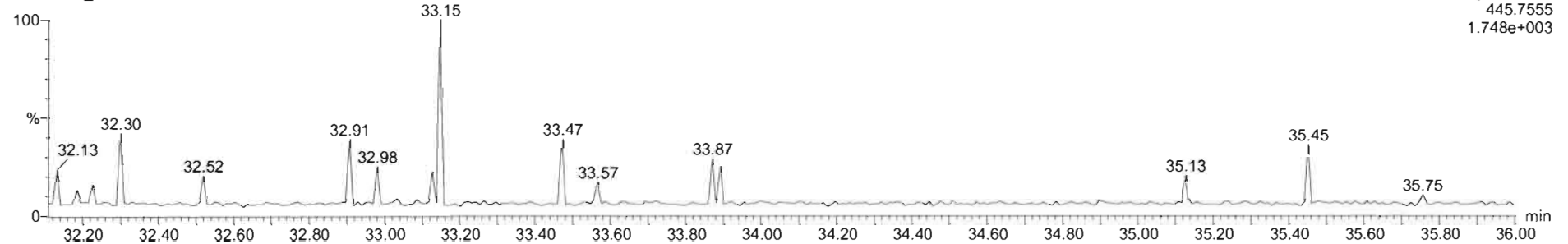


210604R3_2



DPE3

210604R3_2



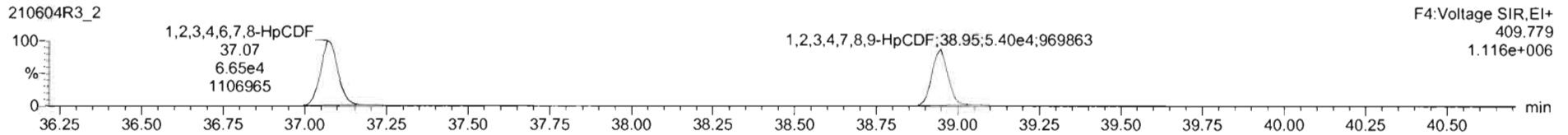
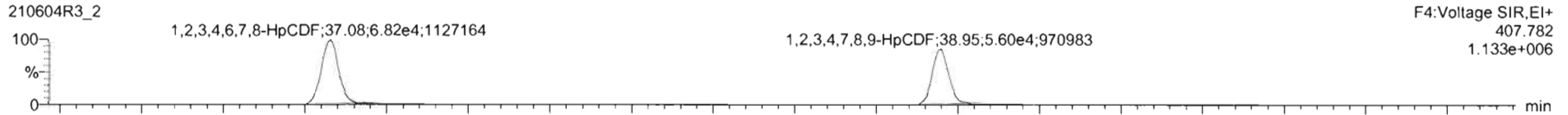
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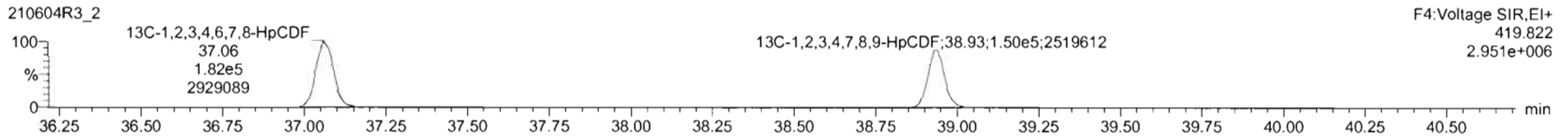
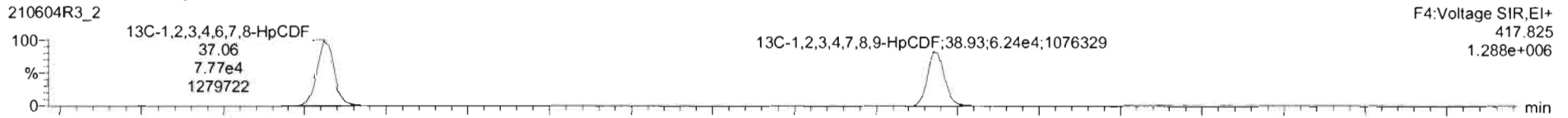
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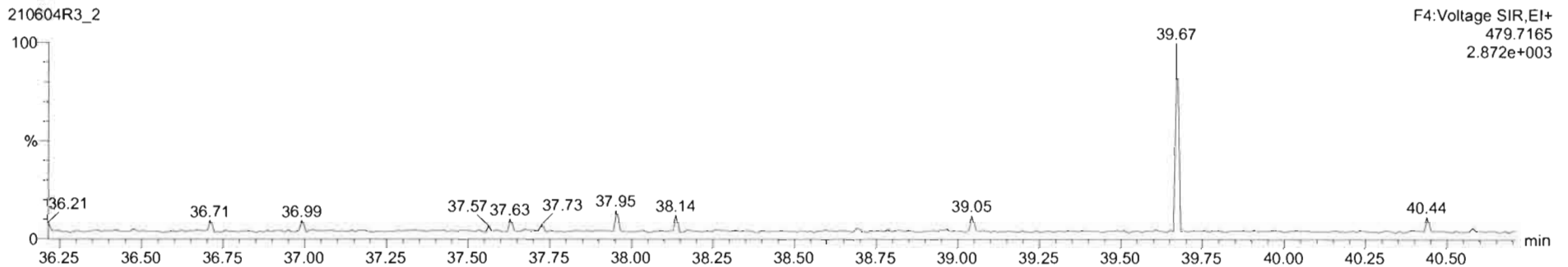
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13C-1,2,3,4,6,7,8-HpCDF



DPE4

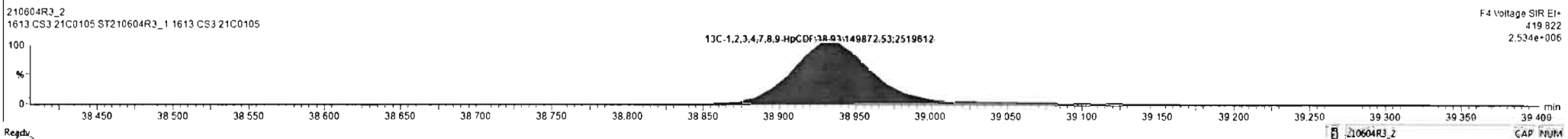
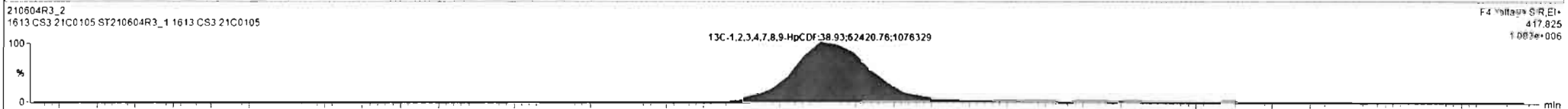
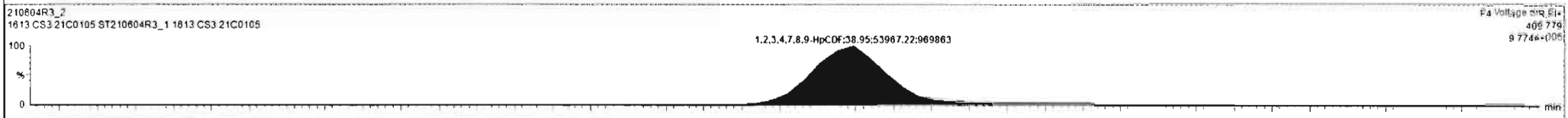
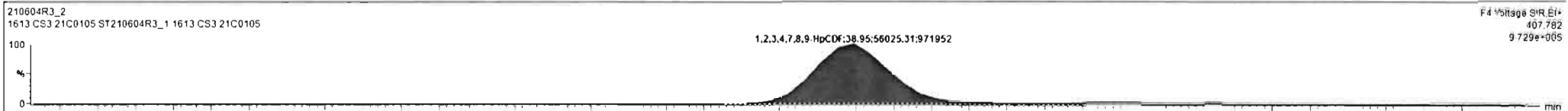


Targetlynx - 210604R3_2.d - Chromatogram

File Edit View Display Processing Window Help

210604R3_2 - ST210604R3_1 1613 CS3 21C0105 - 1613 CS3 21C0105

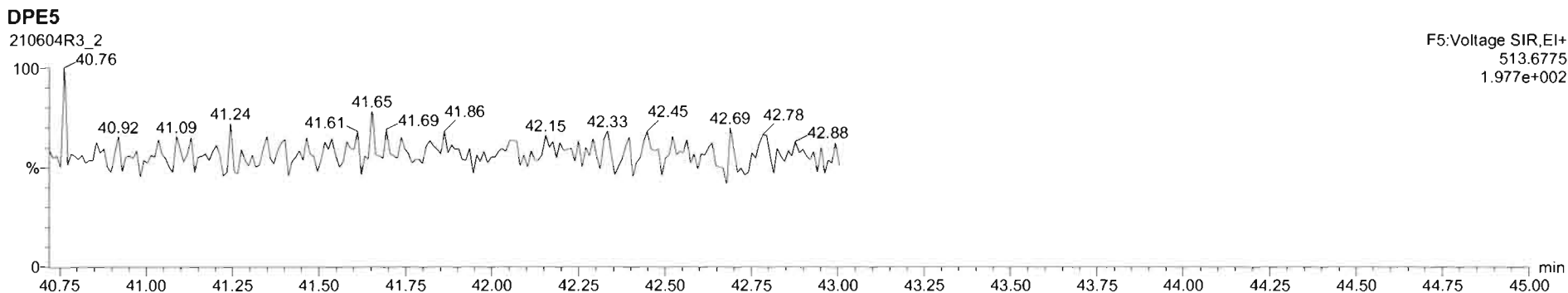
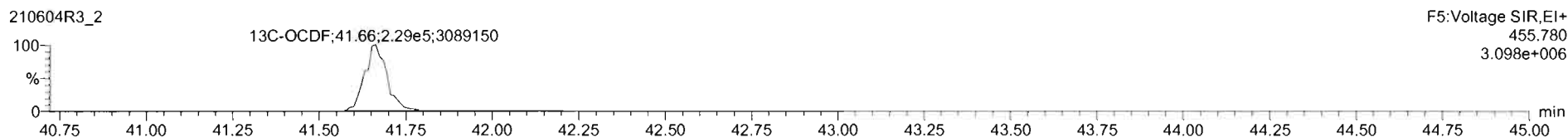
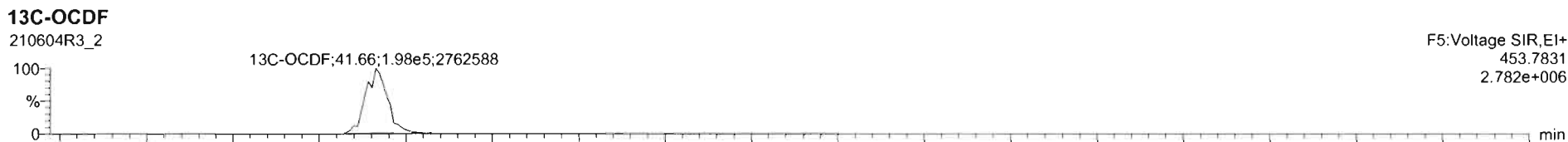
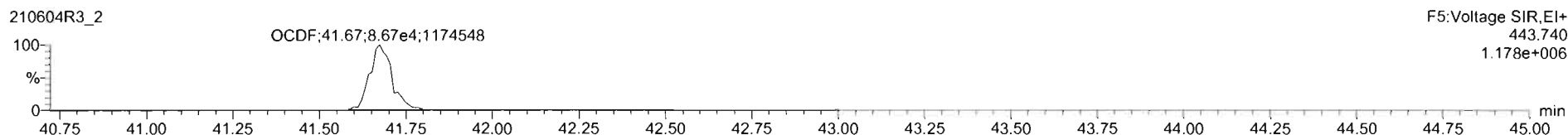
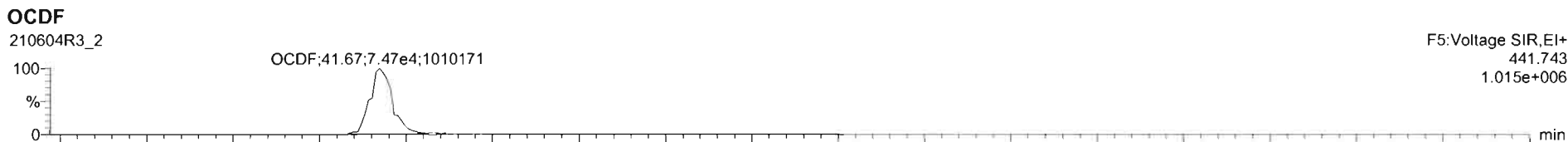
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2	1,2,3,7,8-PeCDD	1.65e5	3.80e5	0.63	0.62	NO	0.8257	31.14	31.12	NO	1.001	1.000	52.7	105	NO
3	1,2,3,4,7,8-HxCDD	1.38e5	2.77e5	1.24	1.25	NO	0.9725	34.49	34.48	NO	1.001	1.000	51.1	102	NO
4	1,2,3,6,7,8-HxCDD	1.39e5	3.08e5	1.24	1.27	NO	0.8771	34.61	34.60	NO	1.001	1.000	51.4	103	NO
5	1,2,3,7,8,9-HxCDD	1.42e5	3.12e5	1.24	1.26	NO	0.8739	34.90	34.90	NO	1.000	1.000	52.1	104	NO
6	1,2,3,4,6,7,8-HpCDD	9.83e4	2.21e5	1.04	1.06	NO	0.8987	38.29	38.29	NO	1.000	1.000	49.5	99.1	NO
7	OCDD	1.38e5	3.12e5	0.89	0.88	NO	0.8524	41.33	41.33	NO	1.000	1.000	104	104	NO
8	1,2,3,7,8-TCDF	5.64e4	7.81e5	0.77	0.76	NO	0.7466	26.06	26.08	NO	1.000	1.001	9.66	96.6	NO
9	1,2,3,7,8-PeCDF	2.25e5	4.70e5	1.55	1.59	NO	0.8771	29.92	29.93	NO	1.000	1.001	54.6	109	NO
10	1,2,3,4,7,8-PeCDF	2.22e5	5.00e5	1.55	1.59	NO	0.9621	30.95	30.94	NO	1.001	1.000	48.1	82.1	NO
11	1,2,3,4,7,8-HxCDF	1.72e5	3.74e5	1.24	1.24	NO	0.9202	33.53	33.53	NO	1.000	1.000	49.9	99.8	NO
12	1,2,3,6,7,8-HxCDF	1.82e5	4.00e5	1.24	1.24	NO	0.9363	33.68	33.67	NO	1.001	1.000	48.6	97.2	NO
13	1,2,3,4,6,7,8-HxCDF	1.85e5	3.39e5	1.24	1.22	NO	0.9725	34.38	34.37	NO	1.001	1.000	49.9	99.8	NO
14	1,2,3,7,8,9-HxCDF	1.39e5	2.94e5	1.24	1.22	NO	0.9396	35.44	35.45	NO	1.000	1.001	50.3	101	NO
15	1,2,3,4,6,7,8-HpCDF	1.35e5	2.59e5	1.04	1.03	NO	1.0481	37.08	37.08	NO	1.000	1.001	49.6	99.1	NO
16	1,2,3,4,7,8,9-HpCDF	1.10e5	2.12e5	1.04	1.04	NO	1.0452	38.94	38.95	NO	1.000	1.001	49.6	99.1	NO
17	OCDF	1.81e5	4.27e5	0.89	0.86	NO	0.7712	41.67	41.67	NO	1.000	1.000	98.0	98.0	NO
18	13C-1,2,3,7,8-TCDD	5.51e5	4.58e5	0.77	0.77	NO	1.1040	26.67	26.68	NO	1.027	1.027	109	109	NO



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Printed: Saturday, June 05, 2021 10:01:43 AM Pacific Daylight Time

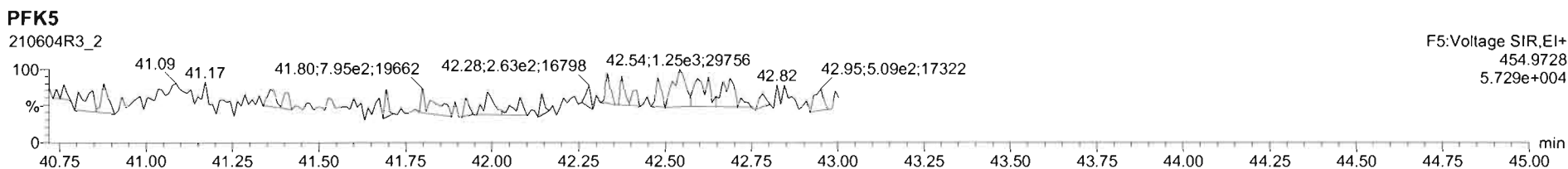
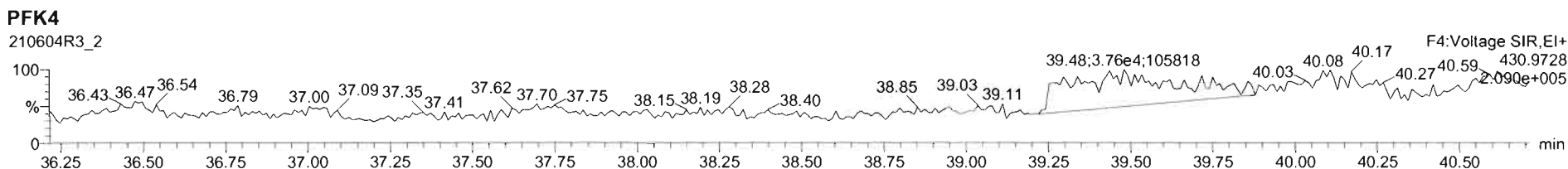
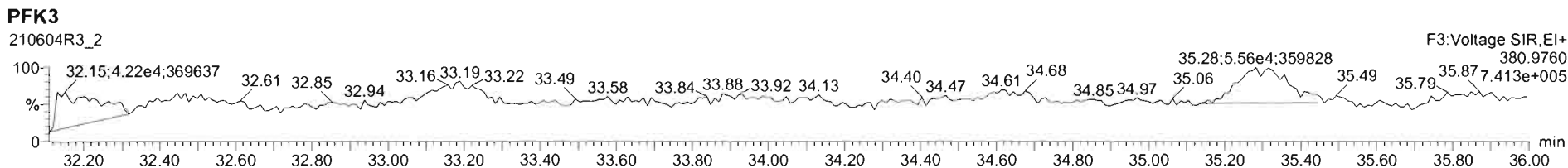
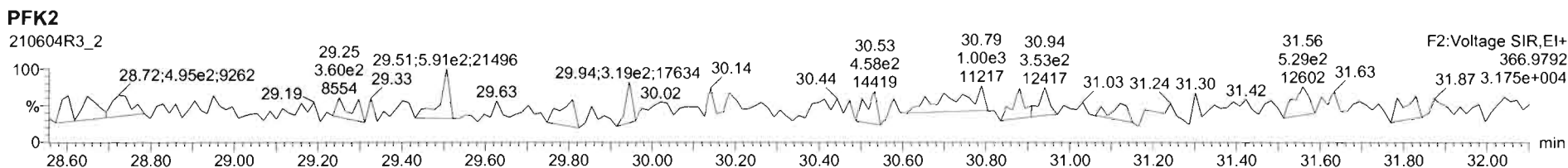
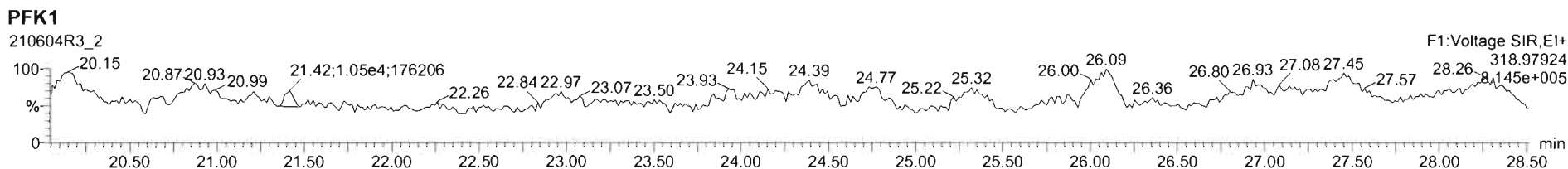
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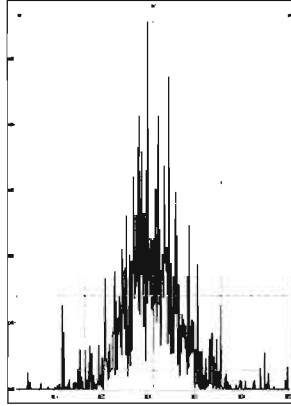
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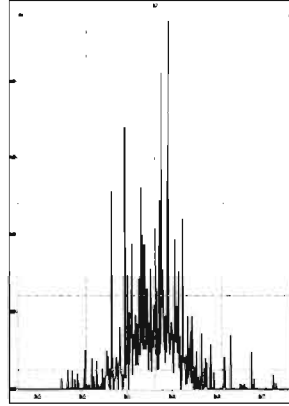


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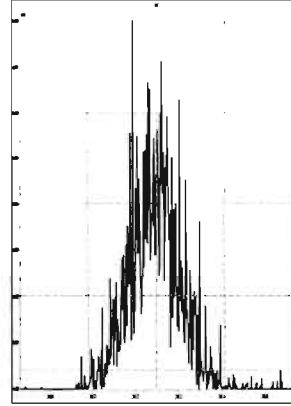
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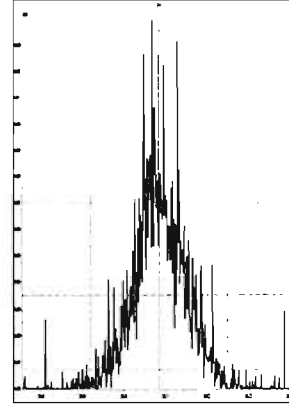
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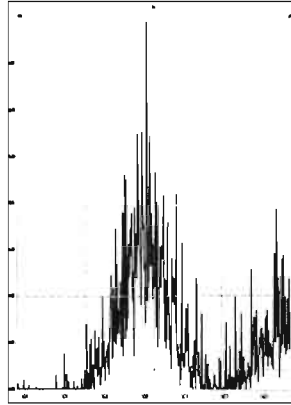
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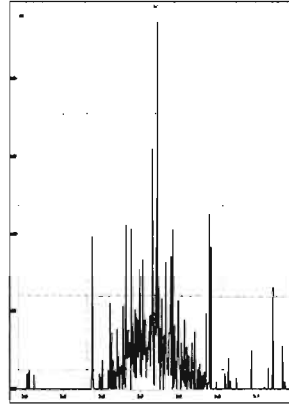
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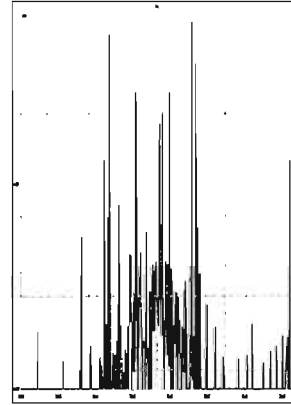
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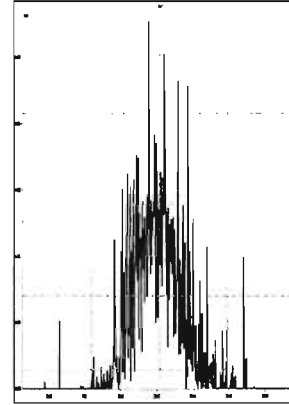
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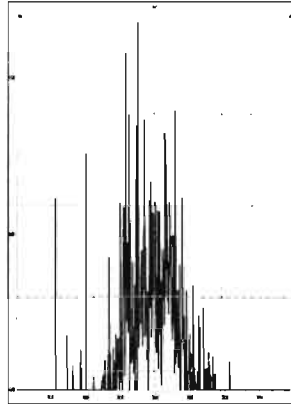
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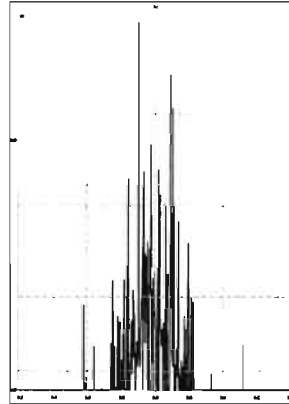
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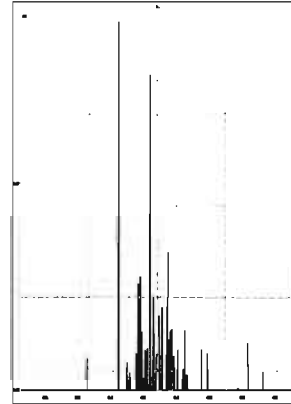
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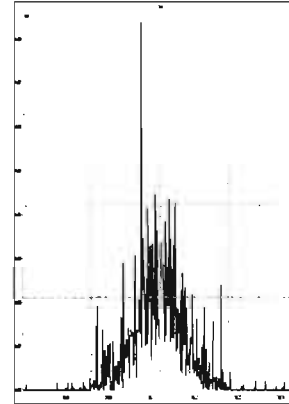
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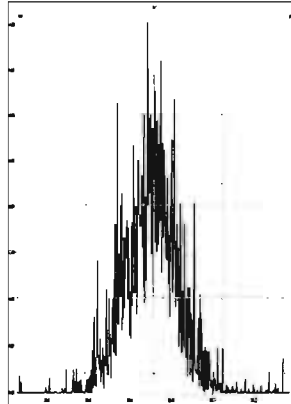
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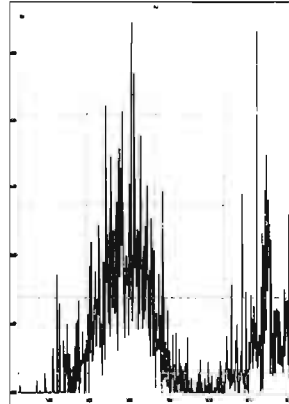
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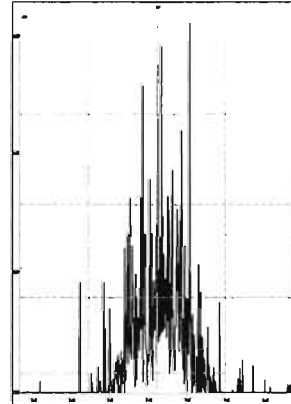
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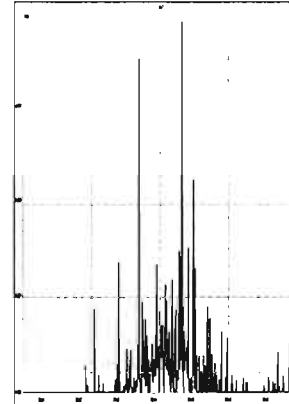
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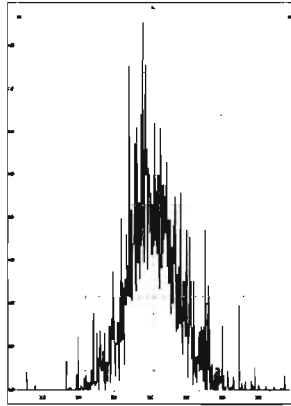


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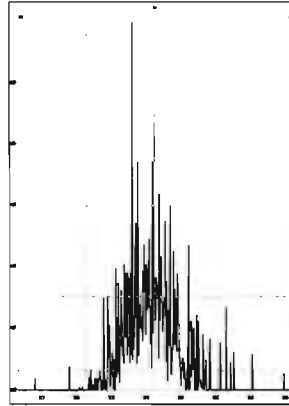


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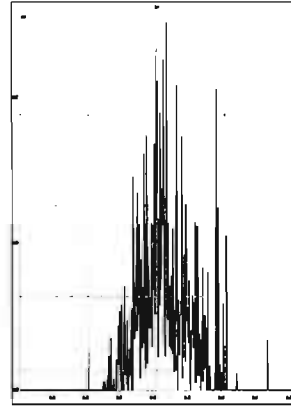
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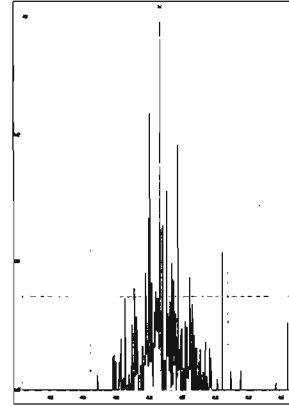
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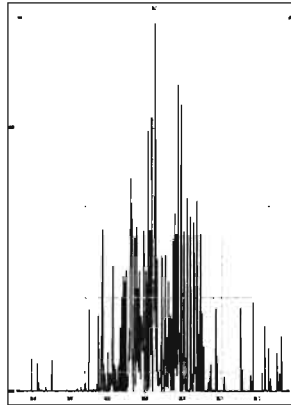
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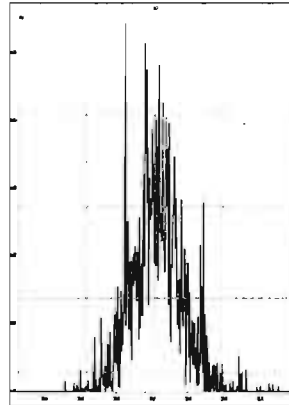
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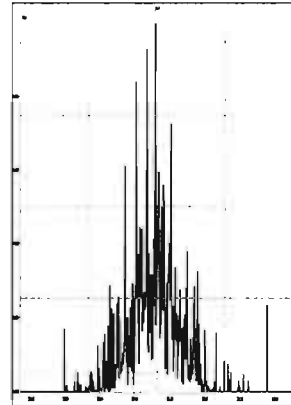
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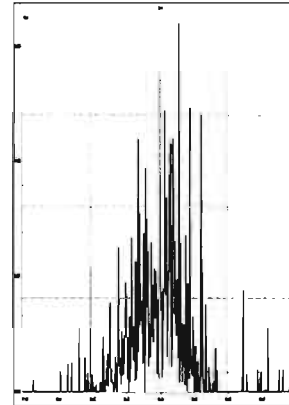
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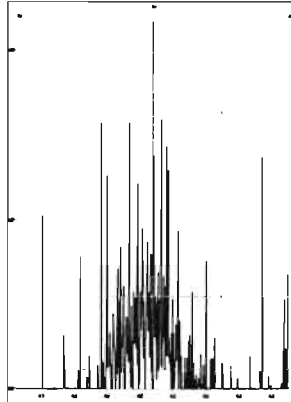
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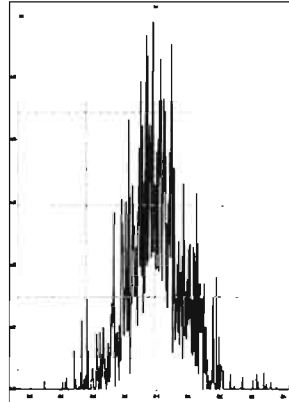
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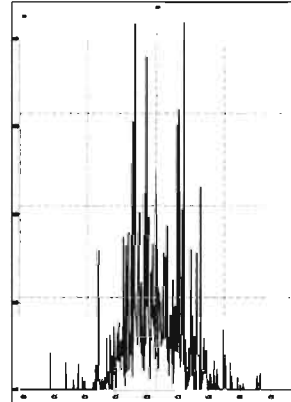
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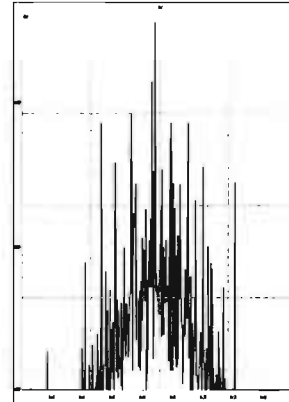
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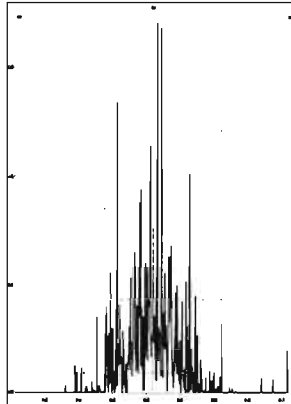
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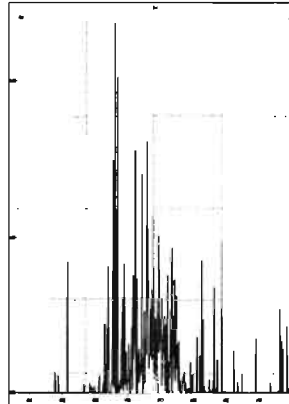
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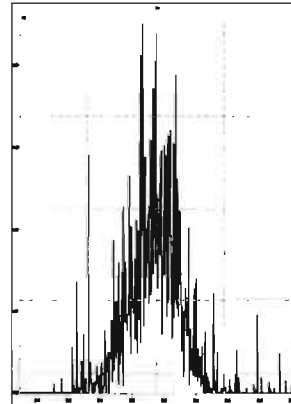
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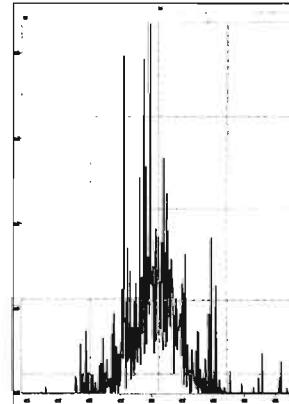
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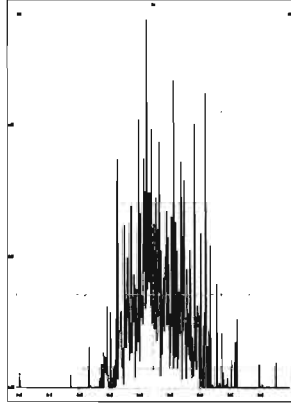


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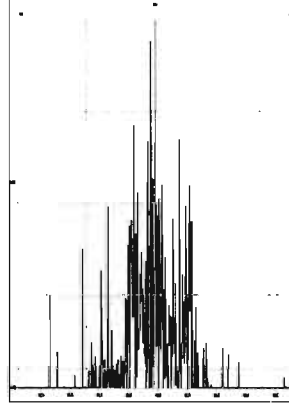


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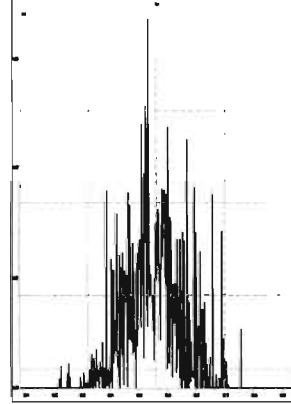
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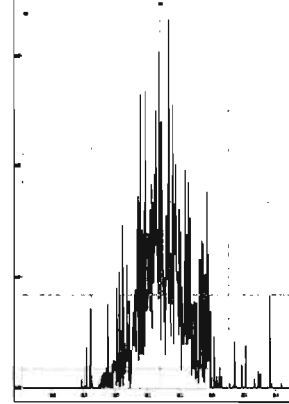
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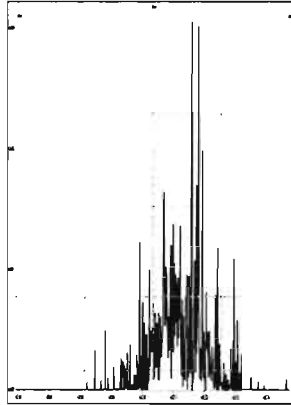
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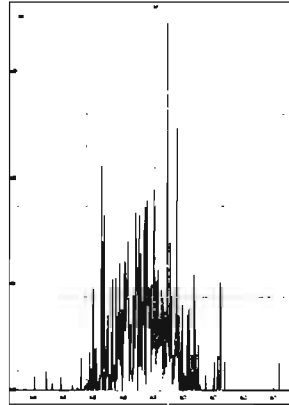
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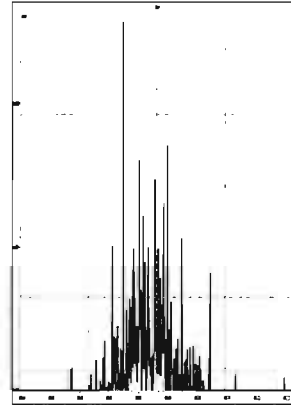
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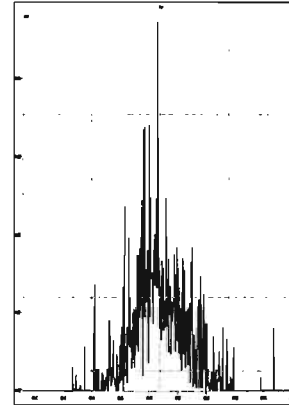
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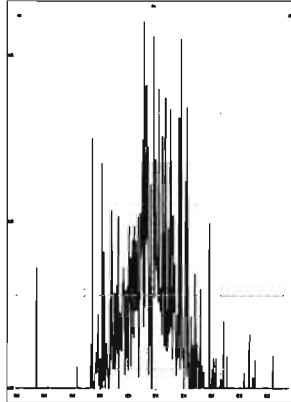
M 466.9728 R 803566



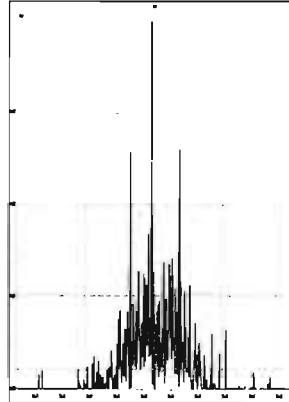
M 480.9696 R 23218



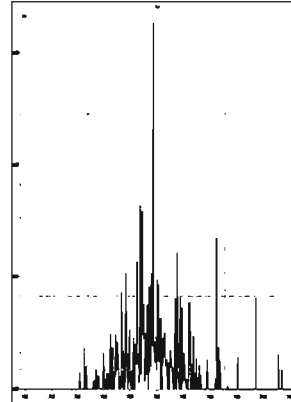
M 492.9696 R 41678



M 504.9696 R 34479



M 516.9697 R 170453



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST 210609 RL 1

Reviewed By: JFob (15/14)

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<u>HM</u>	<input checked="" type="checkbox"/>
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	<u>Y</u>	N
- Bottle position verified?	<u>HM</u>	

Mass resolution \geq

5k 6-8K 8K 10K
1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_1.qld

Last Altered: Tuesday, June 15, 2021 10:48:01 Pacific Daylight Time
Printed: Tuesday, June 15, 2021 10:52:28 Pacific Daylight Time

11/11/21
DT 06/15/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT-Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	2.19e4	2.50e5	0.78	NO	0.929	26.68	26.68	NO	1.001	1.001	9.4242	94.2	NO
2	2 1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.61	NO	0.826	31.14	31.12	NO	1.001	1.000	50.863	102	NO
3	3 1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.26	NO	0.972	34.48	34.47	NO	1.001	1.000	51.833	104	NO
4	4 1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.25	NO	0.877	34.60	34.60	NO	1.001	1.001	51.336	103	NO
5	5 1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.27	NO	0.874	34.87	34.88	NO	1.000	1.001	49.170	98.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.02e4	9.04e4	1.04	NO	0.899	38.25	38.25	NO	1.000	1.000	49.441	98.9	NO
7	7 OCDD	6.40e4	1.48e5	0.86	NO	0.852	41.31	41.32	NO	1.000	1.000	101.67	102	NO
8	8 2,3,7,8-TCDF	2.75e4	3.79e5	0.78	NO	0.747	26.03	26.05	NO	1.000	1.001	9.7124	97.1	NO
9	9 1,2,3,7,8-PeCDF	1.08e5	2.38e5	1.63	NO	0.877	29.92	29.93	NO	1.000	1.001	51.686	103	NO
10	10 2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.57	NO	0.962	30.96	30.94	NO	1.001	1.000	49.456	98.9	NO
11	11 1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.25	NO	0.920	33.52	33.53	NO	1.000	1.001	50.308	101	NO
12	12 1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.27	NO	0.936	33.67	33.67	NO	1.001	1.001	49.536	99.1	NO
13	13 2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.26	NO	0.973	34.36	34.36	NO	1.001	1.001	48.994	98.0	NO
14	14 1,2,3,7,8,9-HxCDF	5.75e4	1.23e5	1.23	NO	0.940	35.44	35.44	NO	1.000	1.000	49.659	99.3	NO
15	15 1,2,3,4,6,7,8-HpCDF	5.64e4	1.08e5	1.02	NO	1.05	37.05	37.05	NO	1.000	1.000	49.779	99.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	4.37e4	8.27e4	1.01	NO	1.05	38.92	38.92	NO	1.000	1.000	50.556	101	NO
17	17 OCDF	7.16e4	1.89e5	0.90	NO	0.771	41.63	41.64	NO	1.000	1.001	98.256	98.3	NO
18	18 13C-2,3,7,8-TCDD	2.50e5	2.25e5	0.78	NO	1.10	26.62	26.65	NO	1.027	1.028	100.70	101	NO
19	19 13C-1,2,3,7,8-PeCDD	1.55e5	2.25e5	0.64	NO	0.864	31.00	31.11	NO	1.196	1.200	79.894	79.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.05e5	1.64e5	1.33	NO	0.746	34.44	34.46	NO	1.014	1.014	86.254	86.3	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.22e5	1.64e5	1.36	NO	0.847	34.56	34.58	NO	1.017	1.018	88.135	88.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.25e5	1.64e5	1.27	NO	0.868	34.86	34.86	NO	1.026	1.026	87.825	87.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.04e4	1.64e5	1.04	NO	0.664	38.21	38.24	NO	1.125	1.125	83.001	83.0	NO
24	24 13C-OCDD	1.48e5	1.64e5	0.88	NO	0.561	41.15	41.31	NO	1.211	1.216	160.71	80.4	NO
25	25 13C-2,3,7,8-TCDF	3.79e5	3.70e5	0.77	NO	1.09	26.02	26.03	NO	1.003	1.004	93.792	93.8	NO
26	26 13C-1,2,3,7,8-PeCDF	2.38e5	3.70e5	1.67	NO	0.809	29.73	29.91	NO	1.147	1.154	79.552	79.6	NO
27	27 13C-2,3,4,7,8-PeCDF	2.31e5	3.70e5	1.67	NO	0.803	30.69	30.94	NO	1.184	1.193	77.726	77.7	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.53e5	1.64e5	0.50	NO	1.01	33.52	33.51	NO	0.987	0.986	92.024	92.0	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.67e5	1.64e5	0.51	NO	1.07	33.64	33.65	NO	0.990	0.990	95.027	95.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.49e5	1.64e5	0.51	NO	0.910	34.33	34.34	NO	1.011	1.011	100.08	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.23e5	1.64e5	0.48	NO	0.828	35.41	35.43	NO	1.042	1.043	90.795	90.8	NO

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_1.qld

Last Altered: Tuesday, June 15, 2021 10:48:01 Pacific Daylight Time

Printed: Tuesday, June 15, 2021 10:52:28 Pacific Daylight Time

Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT.Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.08e5	1.64e5	0.41	NO	0.661	37.02	37.04	NO	1.090	1.090	99.844	99.8	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.27e4	1.64e5	0.40	NO	0.566	38.78	38.90	NO	1.141	1.145	89.215	89.2	NO
34	34 13C-OCDF	1.89e5	1.64e5	0.87	NO	0.663	41.54	41.62	NO	1.223	1.225	173.89	86.9	NO
35	35 37Cl-2,3,7,8-TCDD	4.19e4	2.25e5			2.07	26.82	26.67	NO	1.035	1.029	9.0268	90.3	NO
36	36 13C-1,2,3,4-TCDD	2.25e5	2.25e5	0.78	NO	1.00	26.07	25.93	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	3.70e5	3.70e5	0.79	NO	1.00	24.76	24.58	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.64e5	1.64e5	0.50	NO	1.00	34.04	33.97	NO	1.000	1.000	100.00	100	YES

OK

Dataset: Untitled

Last Altered: Tuesday, June 15, 2021 10:52:52 Pacific Daylight Time
Printed: Tuesday, June 15, 2021 10:52:58 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

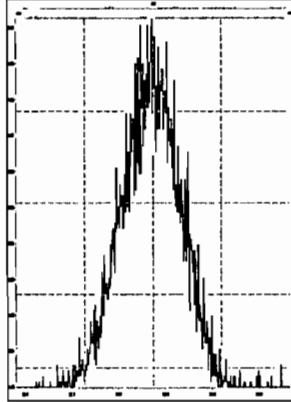
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	210609R1_1	ST210609R1_1 1613 CS3 21C0105	09-Jun-21	10:46:57
2	210609R1_2	SOLVENT BLANK	09-Jun-21	11:34:57
3	210609R1_3	2105243-01 DSN003 FINAL EFFLUENT 1.013...	09-Jun-21	12:19:16
4	210609R1_4	HRMS-210603-02	09-Jun-21	13:05:17
5	210609R1_5	2105042-04 USMPDI-028SC-A-04-05-210504 ...	09-Jun-21	13:51:50
6	210609R1_6	2105042-13 USMPDI-035SC-A-04-05-210504 ...	09-Jun-21	14:39:21
7	210609R1_7	2105022-08 USMPDI-037SC-A-11-12.1-21050...	09-Jun-21	15:24:18
8	210609R1_8	2105047-01 USMPDI-028SG-210504 21.37	09-Jun-21	16:10:23
9	210609R1_9	2105047-03 USMPDI-031SG-210504 24.65	09-Jun-21	16:54:39
10	210609R1_10	2105047-02 USMPDI-030SG-210504 18.07	09-Jun-21	17:38:54
11	210609R1_11	2105047-04 USMPDI-035SG-210504 20.65	09-Jun-21	18:23:08
12	210609R1_12	2105021-07RE1 USMPDI-051SC-A-10-10.8-2...	09-Jun-21	19:07:25
13	210609R1_13	2105221-01 T4-PDI2019-SC44-190523-01-03 ...	09-Jun-21	19:51:39
14	210609R1_14	B1F0018-DUP1 Duplicate 10	09-Jun-21	20:35:55
15	210609R1_15	2105221-02 T4-PDI2019-SC44-190523-03-05 ...	09-Jun-21	21:20:09
16	210609R1_16	2105221-03 T4-PDI2019-SC44-190523-05-07 ...	09-Jun-21	22:04:24

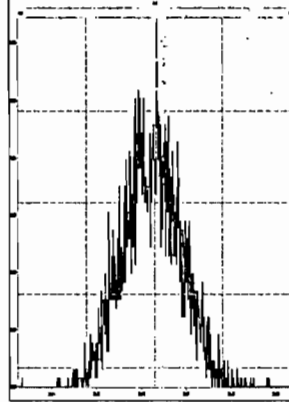
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, June 09, 2021 10:39:22 Pacific Daylight Time

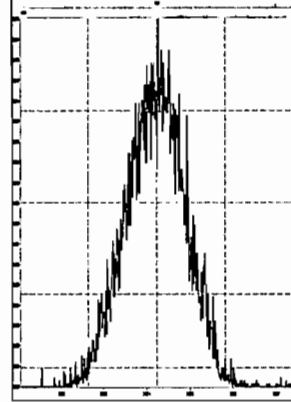
M 292.9824 R 10915



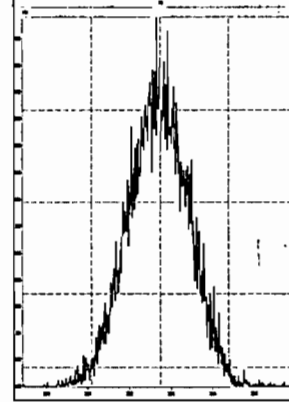
M 304.9824 R 11738



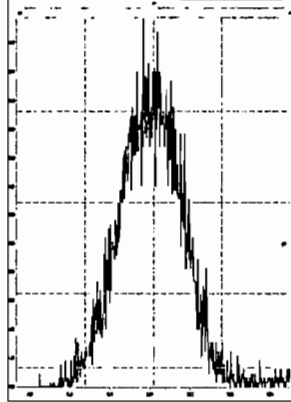
M 318.9792 R 10592



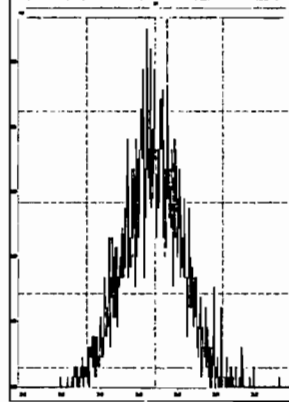
M 330.9792 R 10590



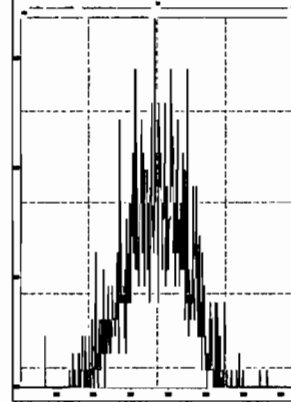
M 342.9792 R 10203



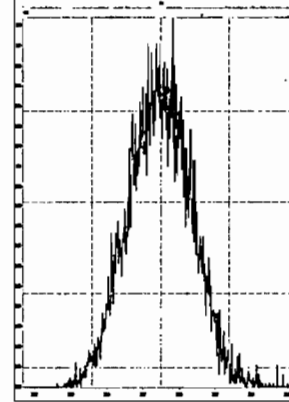
M 354.9792 R 12197



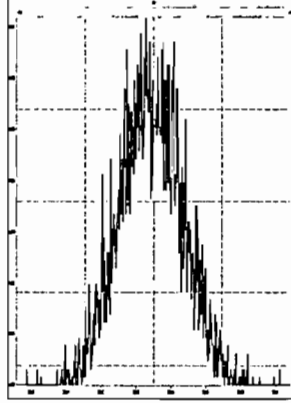
M 366.9792 R 12626



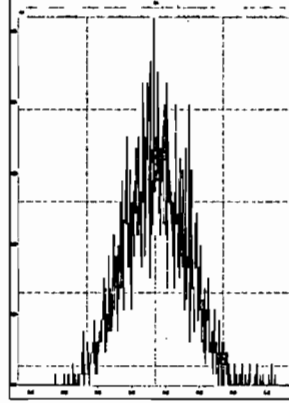
M 380.9760 R 10419



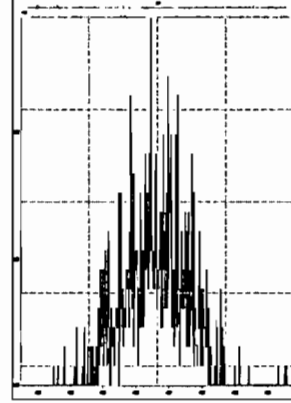
M 392.9760 R 10370



M 404.9760 R 10637



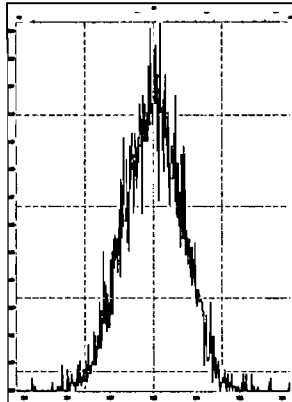
M 416.9760 R 12622



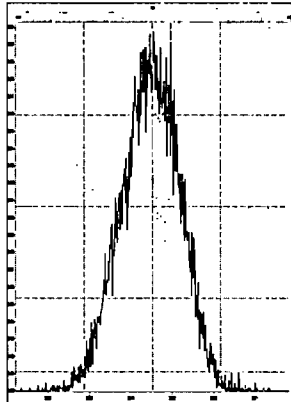
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, June 09, 2021 10:40:32 Pacific Daylight Time

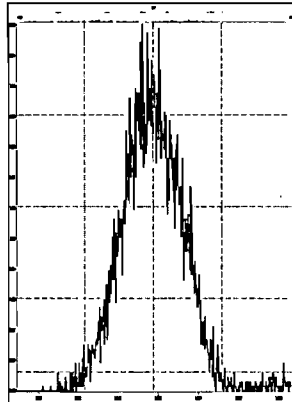
M 318.9792 R 10963



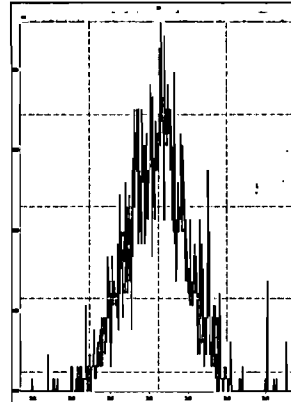
M 330.9792 R 10462



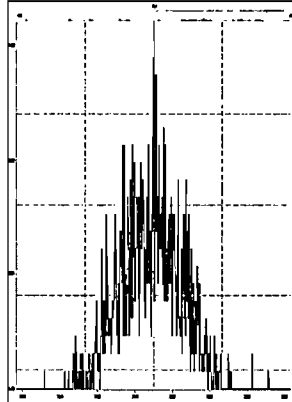
M 342.9792 R 11110



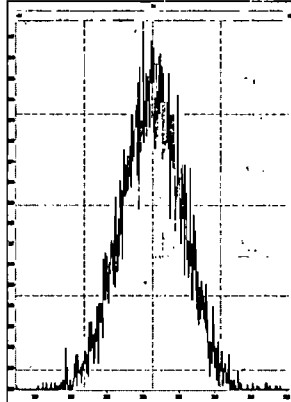
M 354.9792 R 11010



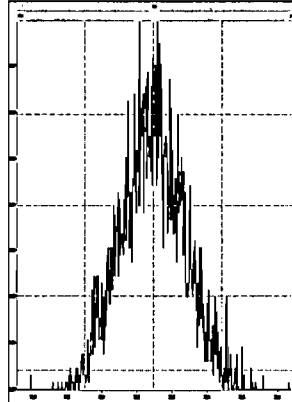
M 366.9792 R 12754



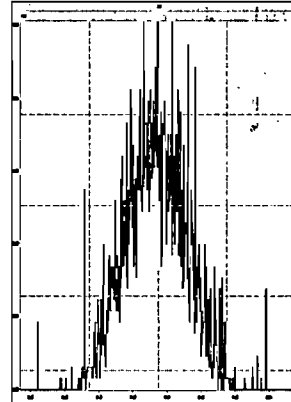
M 380.9760 R 10164



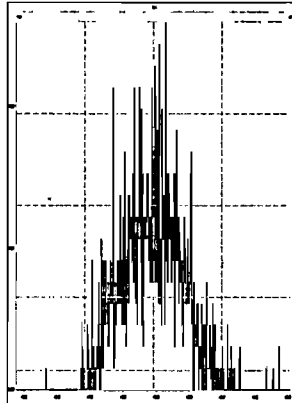
M 392.9760 R 10548



M 404.9760 R 10551



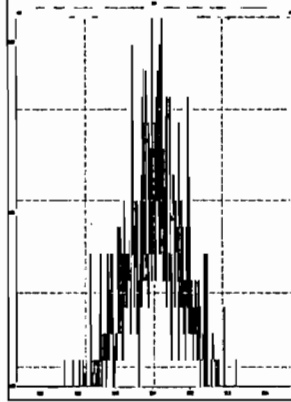
M 416.9760 R 12500



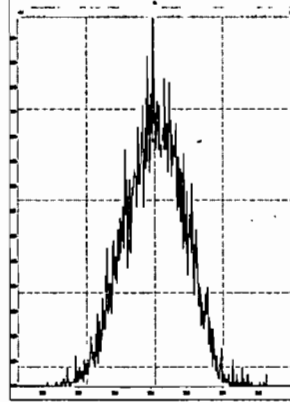
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, June 09, 2021 10:43:44 Pacific Daylight Time

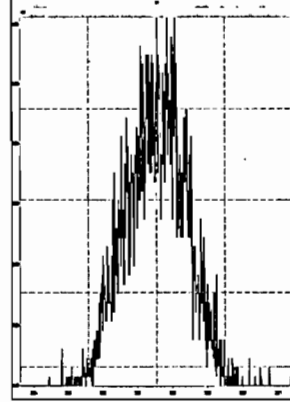
M 366.9792 R 12821



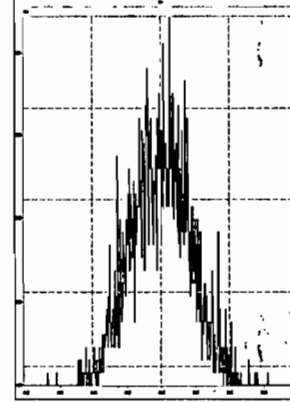
M 380.9760 R 10548



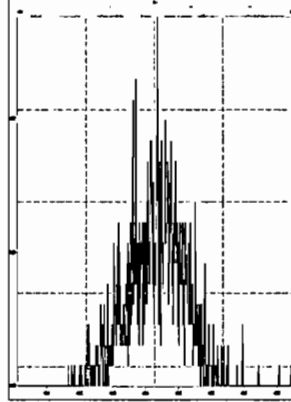
M 392.9760 R 11212



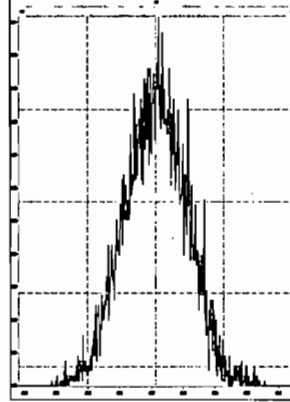
M 404.9760 R 10916



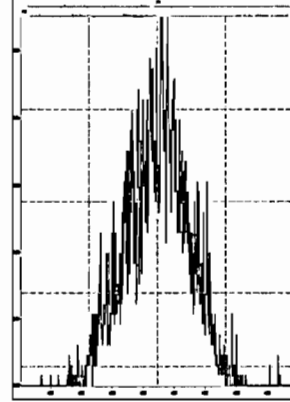
M 416.9760 R 14883



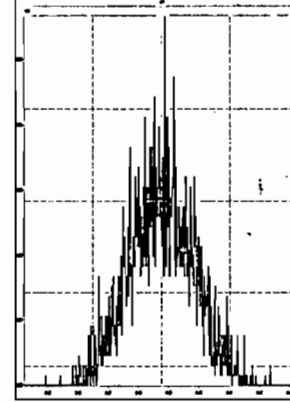
M 430.9728 R 10638



M 442.9728 R 10372



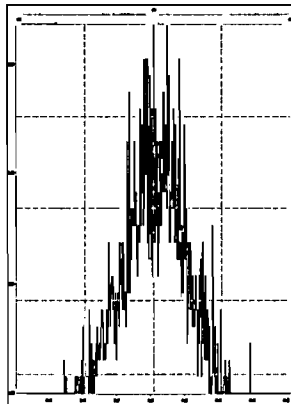
M 454.9728 R 10163



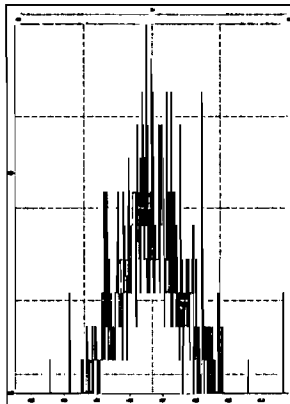
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Printed: Wednesday, June 09, 2021 10:44:35 Pacific Daylight Time

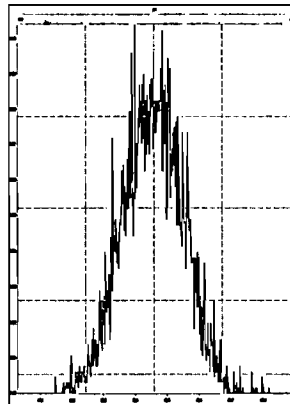
M 404.9760 R 11962



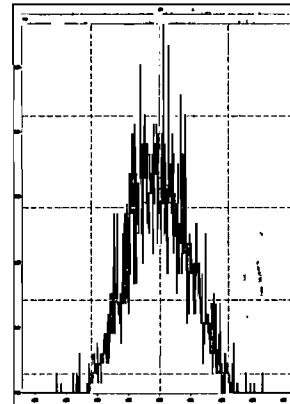
M 416.9760 R 13734



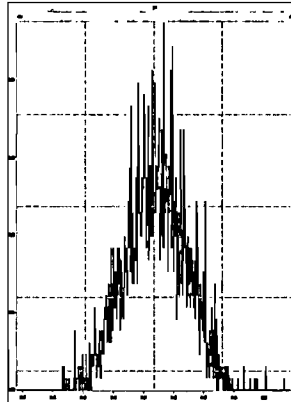
M 430.9728 R 10327



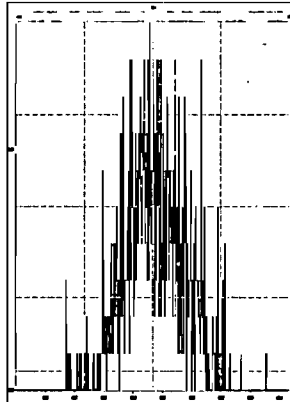
M 442.9728 R 10459



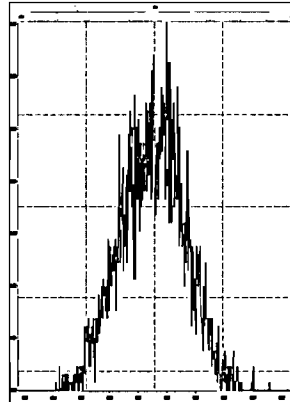
M 454.9728 R 10962



M 466.9728 R 12886



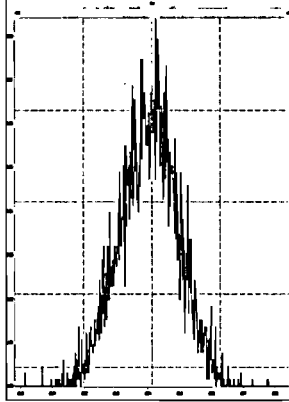
M 480.9696 R 11263



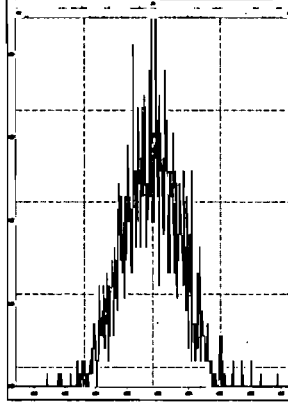
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, June 09, 2021 10:45:47 Pacific Daylight Time

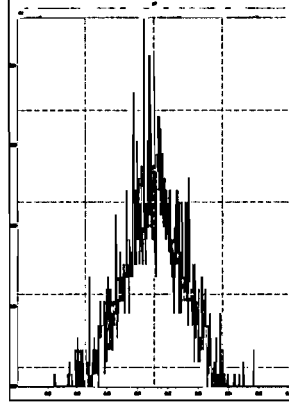
M 430.9728 R 10822



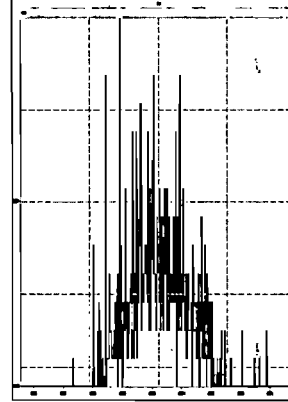
M 442.9728 R 11906



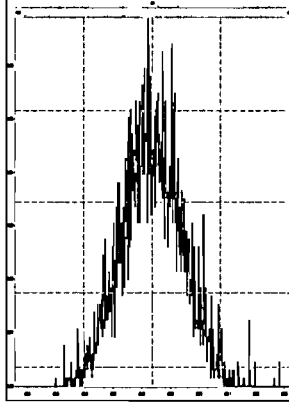
M 454.9728 R 12755



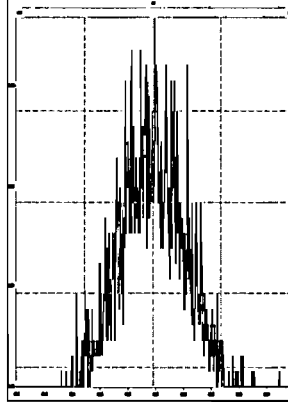
M 466.9728 R 18654



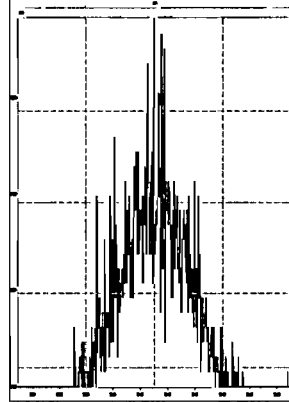
M 480.9696 R 10417



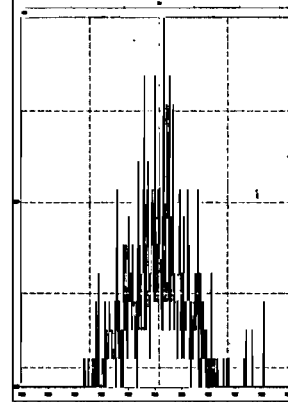
M 492.9696 R 10248



M 504.9696 R 10078



M 516.9697 R 12076



Dataset: U:\VG12.PRO\Results\210609R1\210609R1_CPSM.qld

Last Altered: Monday, June 14, 2021 16:37:23 Pacific Daylight Time

Printed: Monday, June 14, 2021 16:37:52 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1 1,3,6,8-TCDD (First)	23.21
2	2 1,2,8,9-TCDD (Last)	27.51
3	3 1,2,4,7,9-PeCDD (First)	28.93
4	4 1,2,3,8,9-PeCDD (Last)	31.47
5	5 1,2,4,6,7,9-HxCDD (First)	32.75
6	6 1,2,3,7,8,9-HxCDD (Last)	34.88
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.37
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.25
9	9 1,3,6,8-TCDF (First)	21.05
10	10 1,2,8,9-TCDF (Last)	27.83
11	11 1,3,4,6,8-PeCDF (First)	27.38
12	12 1,2,3,8,9-PeCDF (Last)	31.84
13	13 1,2,3,4,6,8-HxCDF (First)	32.22
14	14 1,2,3,7,8,9-HxCDF (Last)	35.44
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.05
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.92

Vista Analytical Laboratory VG-12

Dataset: U:\VG12.PRO\Results\210609R1\210609R1_CPSM.qld

Last Altered: Monday, June 14, 2021 16:37:23 Pacific Daylight Time

Printed: Monday, June 14, 2021 16:37:52 Pacific Daylight Time

6/14/21

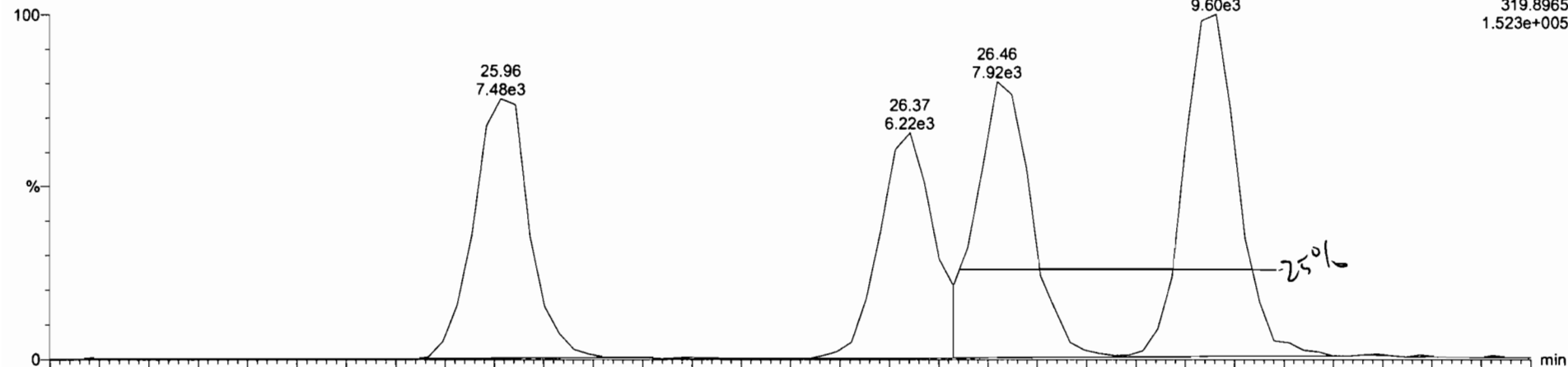
Method: U:\VG12.PRO\MethDB\CPSM.mdb 18 May 2021 09:49:43

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

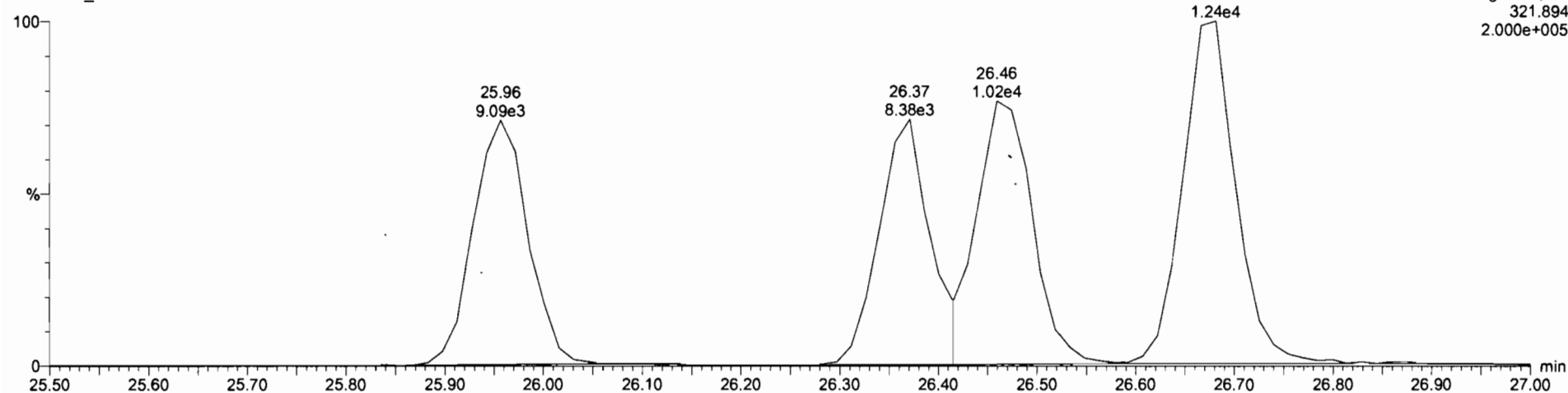
Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDD (First)

210609R1_1



210609R1_1



Dataset: U:\VG12.PRO\Results\210609R1\210609R1_CPSM.qld

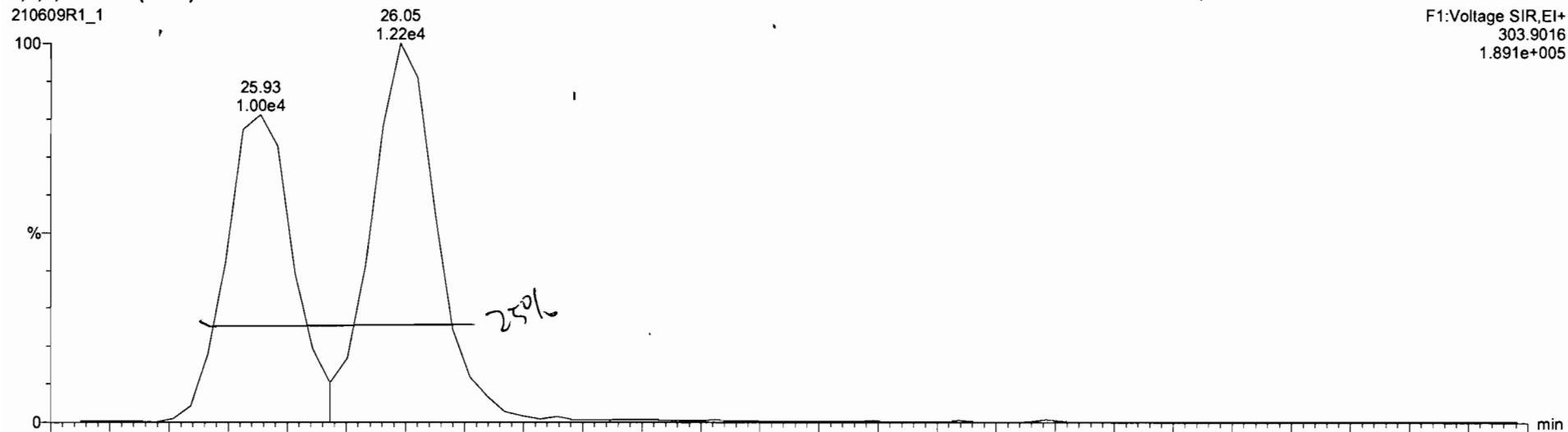
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Printed: Monday, June 14, 2021 16:37:52 Pacific Daylight Time

FIN 06/14/21

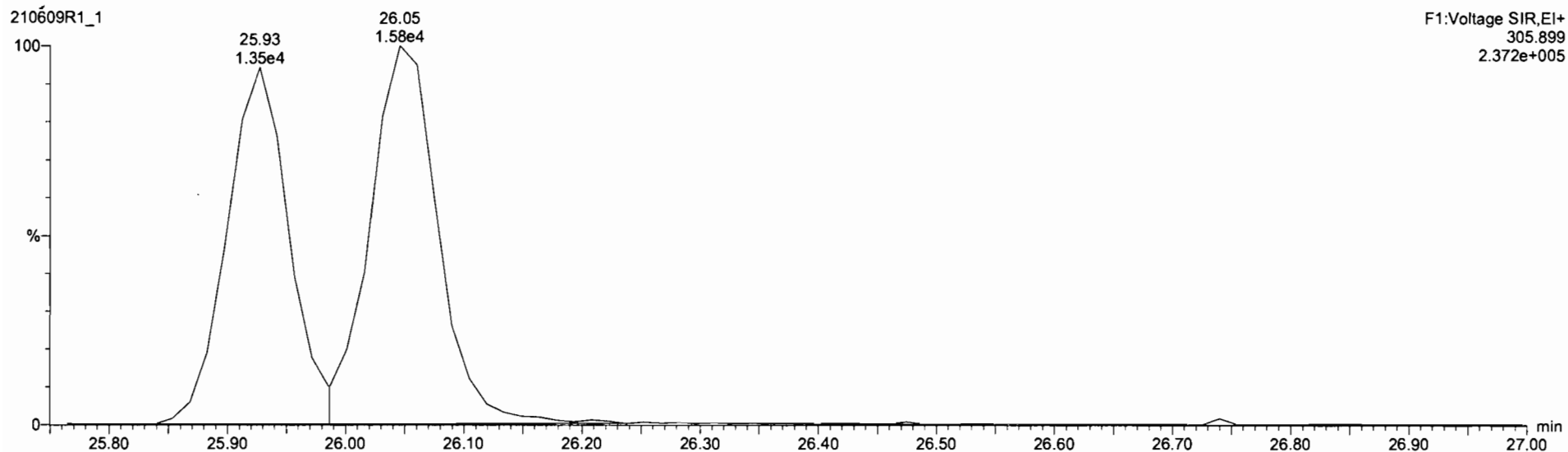
Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,3,6,8-TCDF (First)

210609R1_1



210609R1_1



Dataset: Untitled

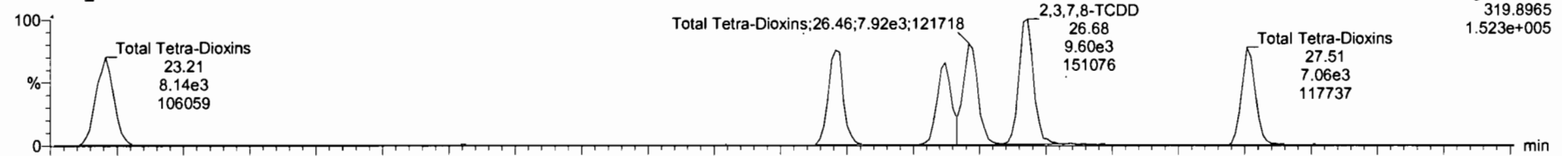
Last Altered: Monday, June 14, 2021 16:36:33 Pacific Daylight Time
Printed: Monday, June 14, 2021 16:36:42 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-27-21.mdb 27 Apr 2021 17:33:38
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

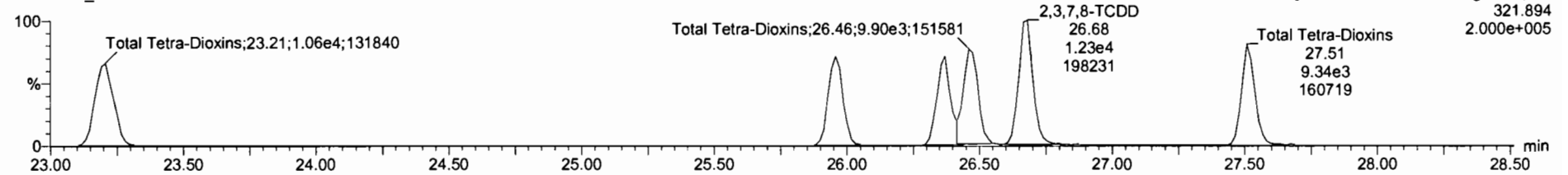
Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

2,3,7,8-TCDD

210609R1_1

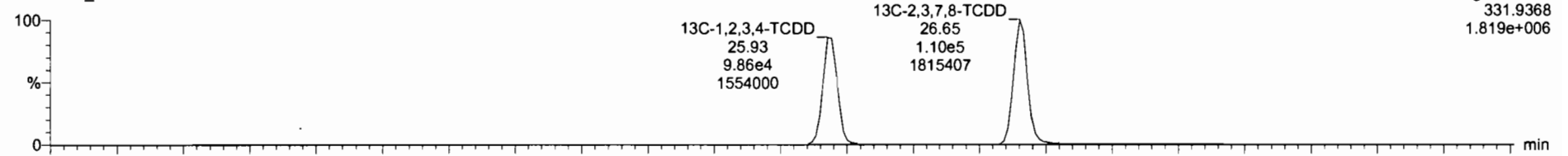


210609R1_1

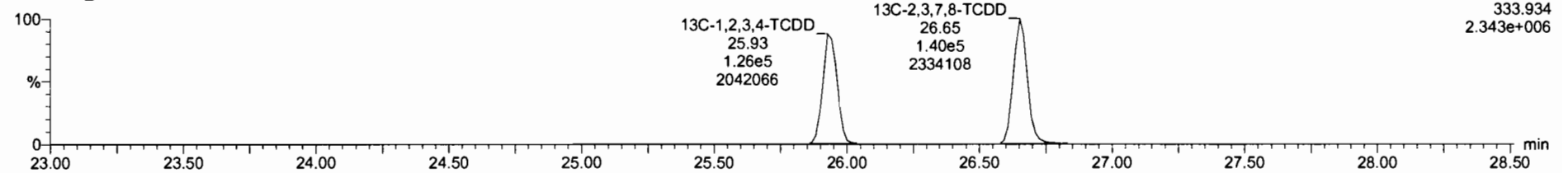


13C-2,3,7,8-TCDD

210609R1_1



210609R1_1



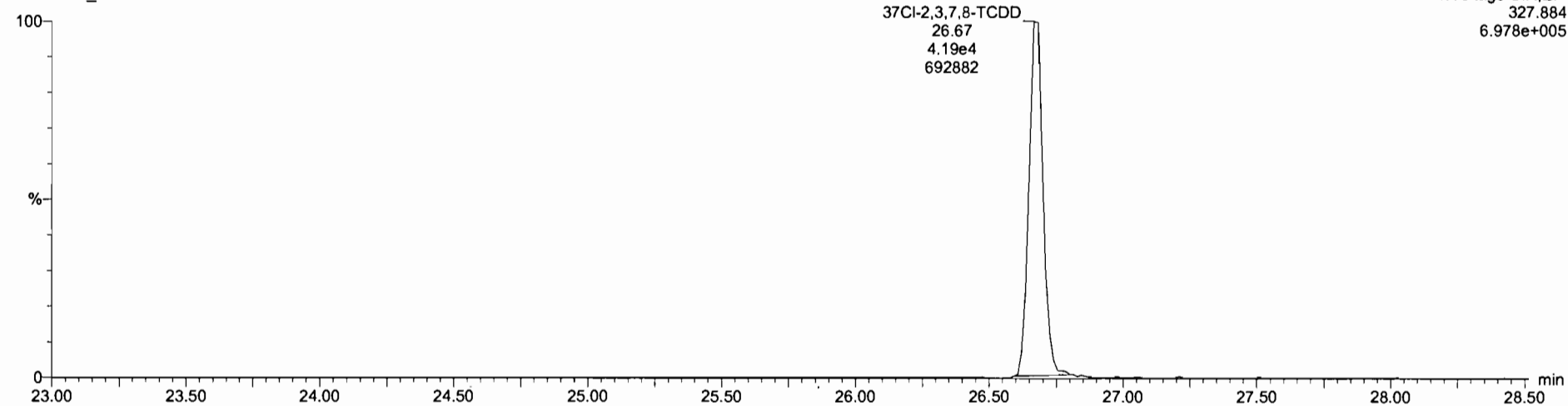
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Last Altered: Monday, June 14, 2021 16:36:33 Pacific Daylight Time
Printed: Monday, June 14, 2021 16:36:42 Pacific Daylight Time

Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

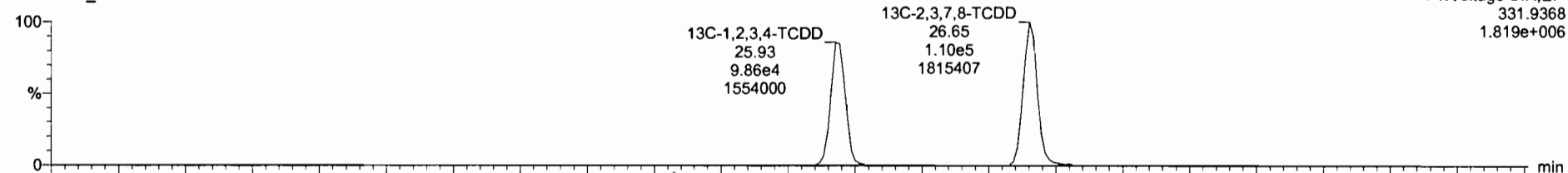
37Cl-2,3,7,8-TCDD

210609R1_1

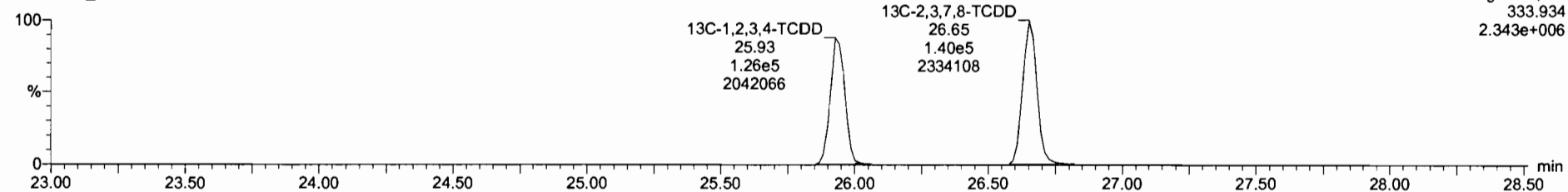


13C-1,2,3,4-TCDD

210609R1_1



210609R1_1

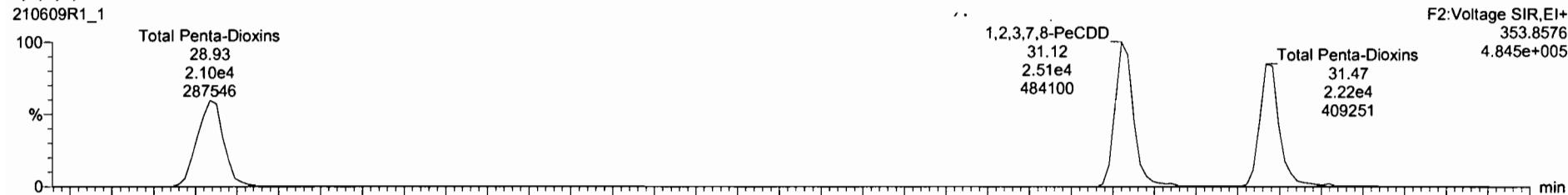


Dataset: Untitled

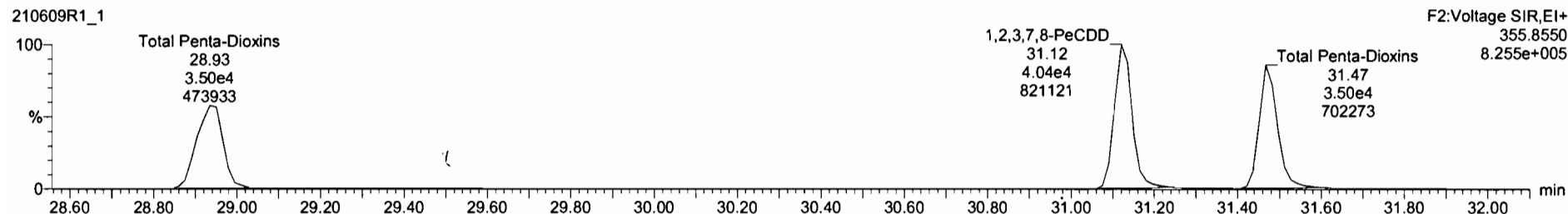
Last Altered: Monday, June 14, 2021 16:36:33 Pacific Daylight Time
Printed: Monday, June 14, 2021 16:36:42 Pacific Daylight Time

Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,7,8-PeCDD



F2:Voltage SIR,EI+
353.8576
4.845e+005

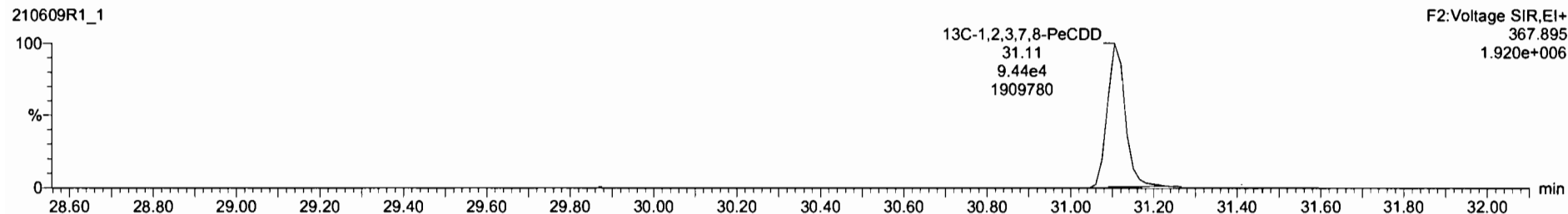


F2:Voltage SIR,EI+
355.8550
8.255e+005

13C-1,2,3,7,8-PeCDD



F2:Voltage SIR,EI+
365.8978
1.210e+006



F2:Voltage SIR,EI+
367.895
1.920e+006

210609R1_1 - ST210609R1_1 1613 CS3 21C0105 - 1613 CS3 21C0105

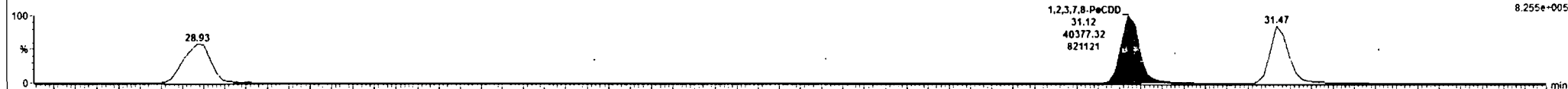
#	Name	Resp	IS Resp	Pred RA	RA	nHy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	8.51e4	1.55e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.25	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.43e4	1.22e5	1.24	1.26	NO	0.8771	34.60	34.60	NO	1.001	1.001	50.7	101	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.8739	34.87	34.88	NO	1.000	1.001	49.2	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.05e4	9.15e4	1.04	1.05	NO	0.8987	36.25	36.25	NO	1.000	1.000	49.2	98.4	NO
7	OCDD	6.63e4	1.51e5	0.89	0.85	NO	0.8524	41.31	41.32	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.09e5	2.38e5	1.55	1.64	NO	0.8771	29.92	29.93	NO	1.000	1.001	52.0	104	NO
10	1,2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	96.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.9202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	1,2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	96.0	NO
14	1,2,3,7,8,9-HxCDF	5.74e4	1.23e5	1.24	1.23	NO	0.9398	35.44	35.44	NO	1.000	1.000	49.6	99.2	NO
15	1,2,3,4,6,7,8-HpCDF	5.64e4	1.10e5	1.04	1.01	NO	1.0481	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO

210609R1_1
1613 CS3 21C0105 ST210609R1_1 1613 CS3 21C0105



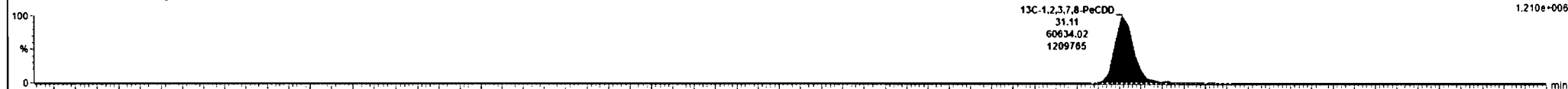
F2:Voltage SIR.EI-
353.8576
4.845e-005

210609R1_1
1613 CS3 21C0105 ST210609R1_1 1613 CS3 21C0105



F2:Voltage SIR.EI-
355.8550
8.255e-005

210609R1_1
1613 CS3 21C0105 ST210609R1_1 1613 CS3 21C0105



F2:Voltage SIR.EI-
365.8978
1.210e-006

210609R1_1
1613 CS3 21C0105 ST210609R1_1 1613 CS3 21C0105



F2:Voltage SIR.EI-
367.895
1.920e-005

Ready

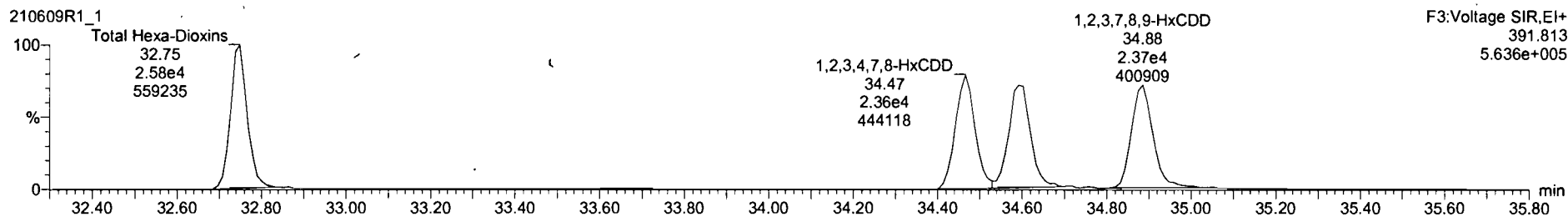
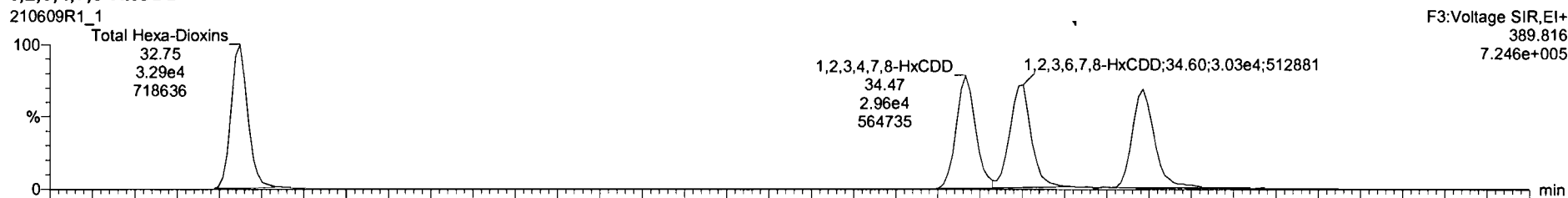
210609R1_1 [CAP] NUM

Dataset: Untitled

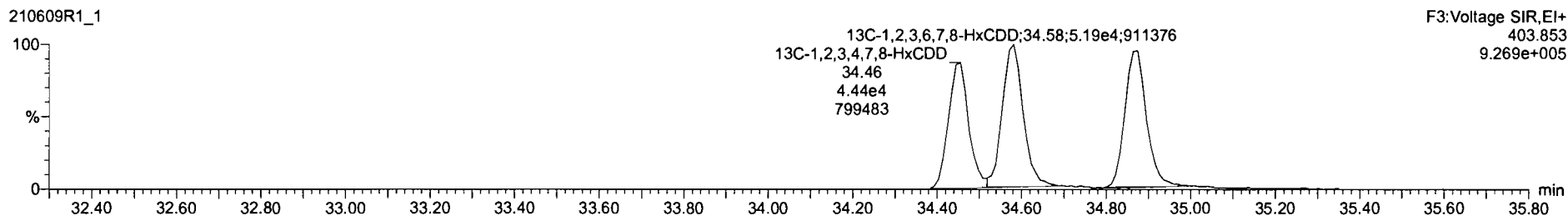
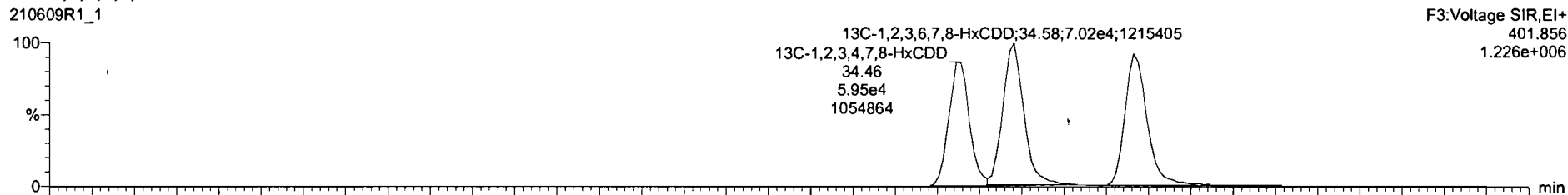
Last Altered: Monday, June 14, 2021 16:36:33 Pacific Daylight Time
Printed: Monday, June 14, 2021 16:36:42 Pacific Daylight Time

Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1,2,3,4,7,8-HxCDD

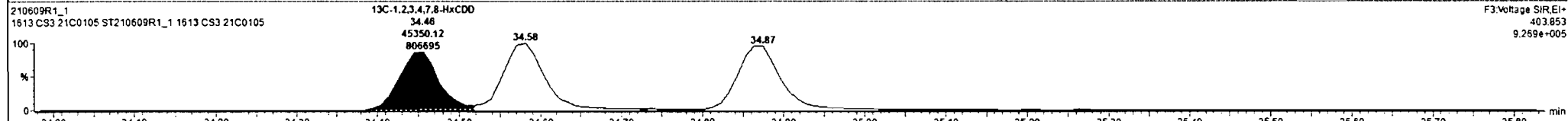
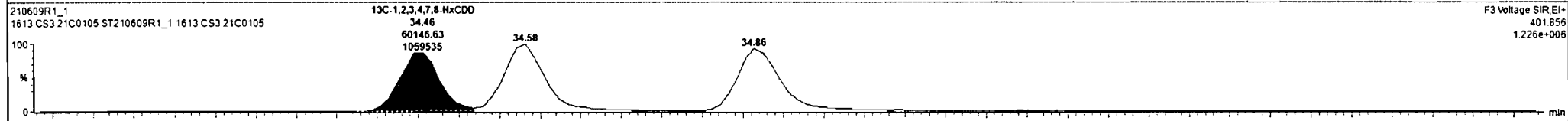
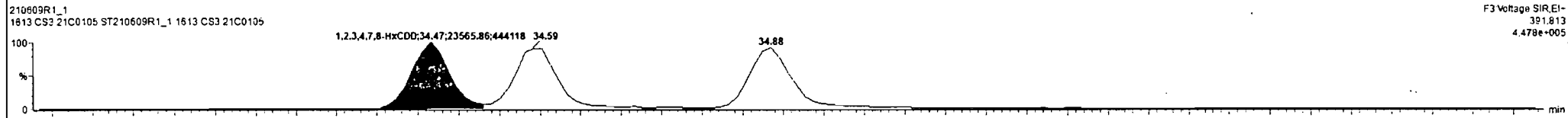
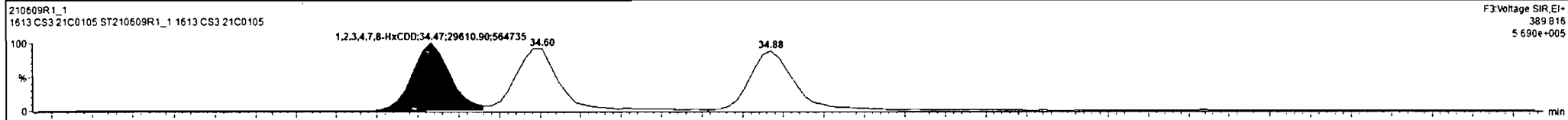


13C-1,2,3,4,7,8-HxCDD

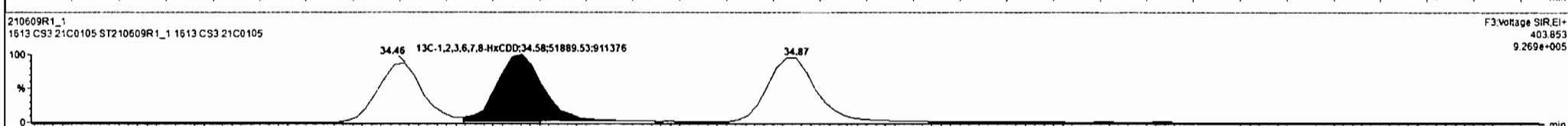
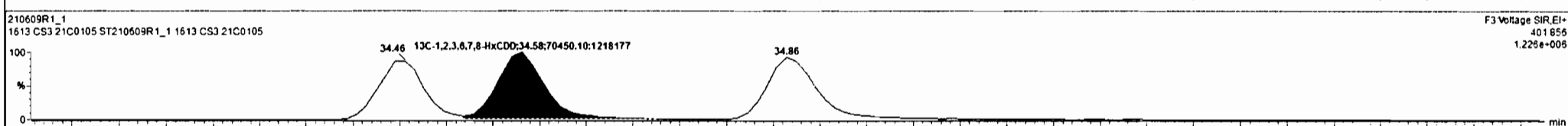
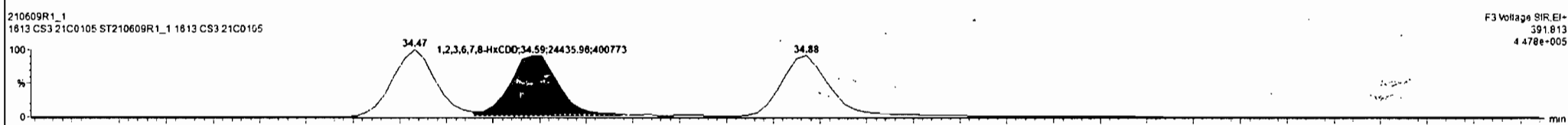
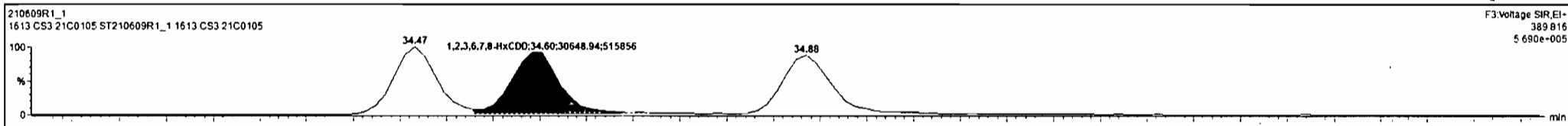


210609R1_1 - ST210609R1_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.26	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.43e4	1.22e5	1.24	1.26	NO	0.8771	34.60	34.60	NO	1.001	1.001	50.7	101	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.6739	34.87	34.68	NO	1.000	1.001	49.2	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.05e4	9.15e4	1.04	1.05	NO	0.8987	38.25	38.25	NO	1.000	1.000	49.2	98.4	NO
7	OCDD	6.63e4	1.51e5	0.89	0.85	NO	0.6524	41.31	41.32	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7468	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.09e5	2.36e5	1.55	1.64	NO	0.8771	29.92	29.93	NO	1.000	1.001	52.0	104	NO
10	2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.9202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.74e4	1.23e5	1.24	1.23	NO	0.9398	35.44	35.44	NO	1.000	1.000	49.6	99.2	NO
15	1,2,3,4,6,7,8-HpCDF	5.64e4	1.10e5	1.04	1.01	NO	1.0481	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO

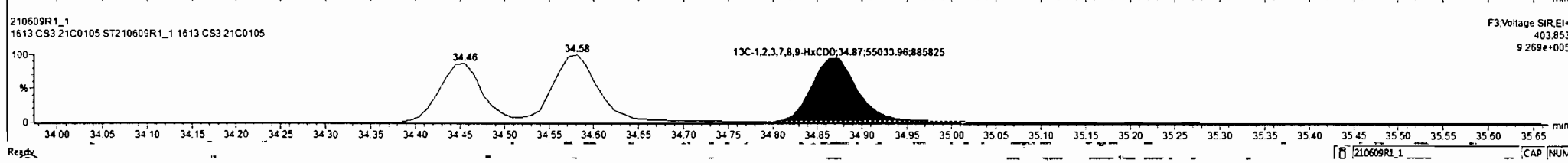
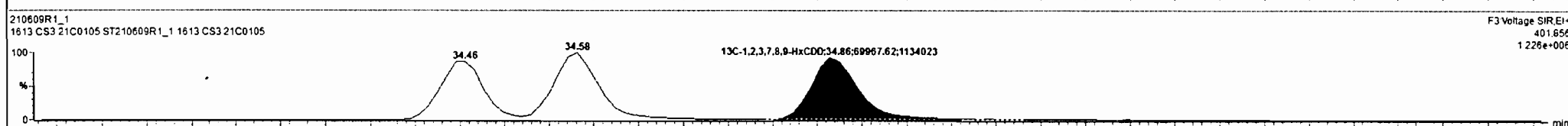
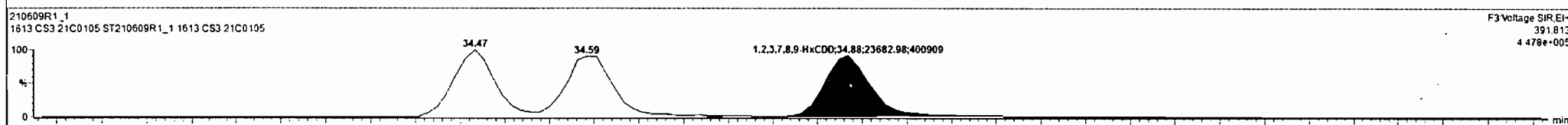
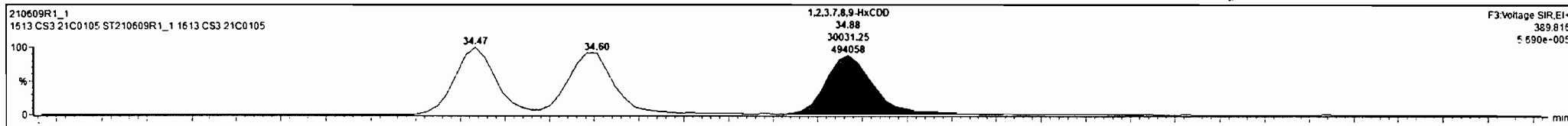


#	Name	Resp	IS Resp	Pred RA	RA	nly	RFP	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9281	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.28	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.60	34.60	NO	1.001	1.001	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.8739	34.67	34.68	NO	1.000	1.001	49.2	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.05e4	9.15e4	1.04	1.05	NO	0.8967	38.25	38.25	NO	1.000	1.000	49.2	98.4	NO
7	OCDD	6.63e4	1.51e5	0.69	0.65	NO	0.8524	41.31	41.32	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.09e5	2.38e5	1.55	1.64	NO	0.8771	29.92	29.93	NO	1.000	1.001	52.0	104	NO
10	2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.9202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	1,2,3,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.74e4	1.23e5	1.24	1.23	NO	0.9398	35.44	35.44	NO	1.000	1.000	49.8	99.2	NO
15	1,2,3,4,6,7,8-HpCDF	5.64e4	1.10e5	1.04	1.01	NO	1.0461	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO



210609R1_1 - ST210609R1_1 1613 CS3 21C0105 - 1613 CS3 21C0105

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	26.88	NO	1.001	1.031	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.6257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.26	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.60	34.60	NO	1.001	1.001	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.8739	34.87	34.88	NO	1.000	1.001	49.2	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.05e4	9.15e4	1.04	1.05	NO	0.6967	38.25	38.25	NO	1.000	1.000	49.2	98.4	NO
7	OCDD	6.63e4	1.51e5	0.89	0.85	NO	0.6524	41.31	41.32	NO	1.003	1.000	103	103	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.05e5	2.38e5	1.55	1.64	NO	0.6771	29.92	29.93	NO	1.000	1.001	52.0	104	NO
10	1,2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.5202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	1,2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.5725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.74e4	1.23e5	1.24	1.23	NO	0.9396	35.44	35.44	NO	1.000	1.000	49.8	99.2	NO
15	1,2,3,4,6,7,8-HpCDF	5.64e4	1.10e5	1.04	1.01	NO	1.0481	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO



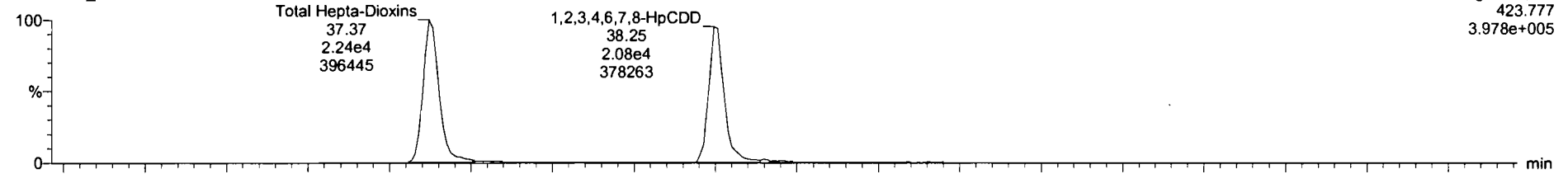
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Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

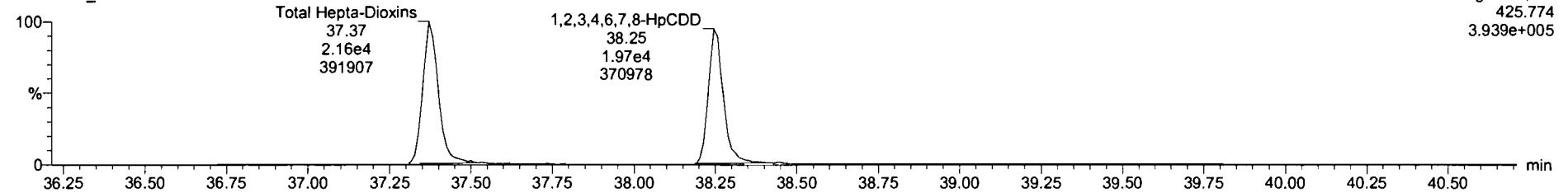
1,2,3,4,6,7,8-HpCDD

210609R1_1



F4: Voltage SIR, EI+
423.777
3.978e+005

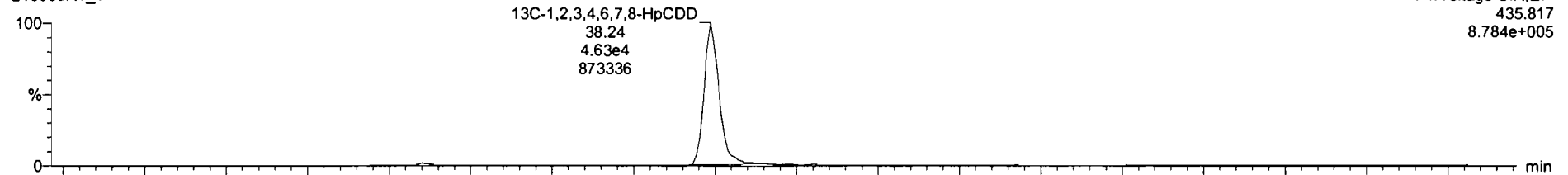
210609R1_1



F4: Voltage SIR, EI+
425.774
3.939e+005

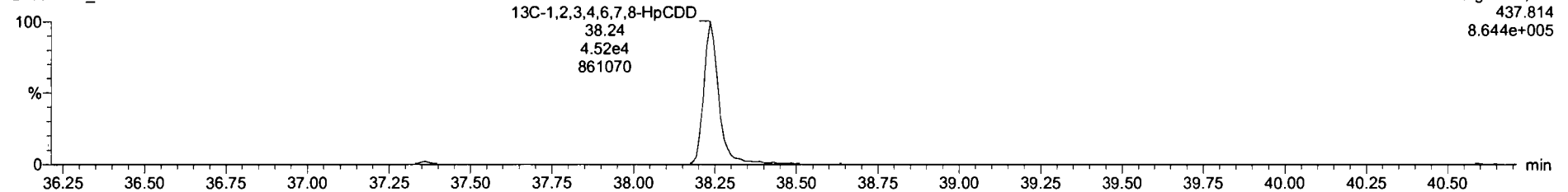
13C-1,2,3,4,6,7,8-HpCDD

210609R1_1



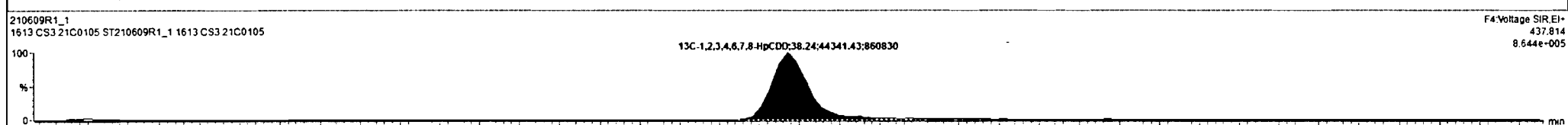
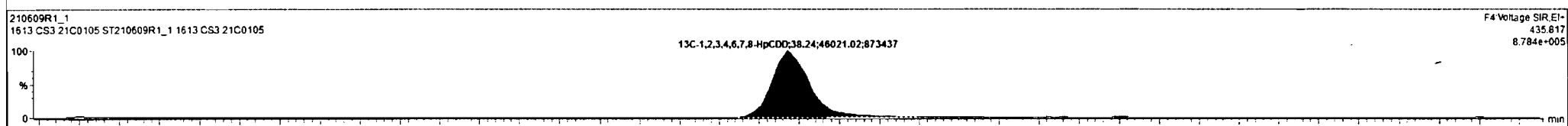
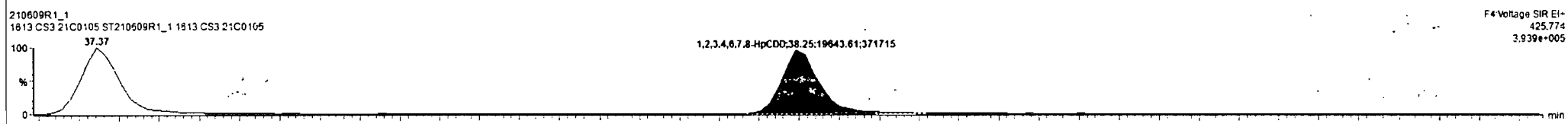
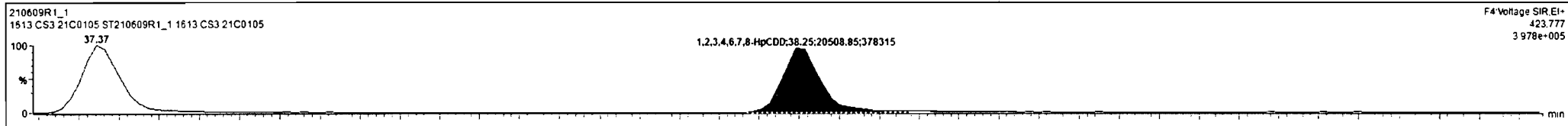
F4: Voltage SIR, EI+
435.817
8.784e+005

210609R1_1



F4: Voltage SIR, EI+
437.814
8.644e+005

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	2.19e4	2.55e5	0.77	0.78	NO	0.9291	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.26	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.60	34.60	NO	1.001	1.001	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.8739	34.87	34.68	NO	1.000	1.001	49.2	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.02e4	9.04e4	1.04	1.04	NO	0.8987	38.25	38.25	NO	1.000	1.000	49.4	96.9	NO
7	OCDD	6.63e4	1.51e5	0.89	0.85	NO	0.8524	41.31	41.32	NO	1.000	1.000	103	103	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.05e5	2.38e5	1.55	1.64	NO	0.8771	29.92	29.93	NO	1.000	1.001	52.0	104	NO
10	2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	96.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.9202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	1,2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.74e4	1.23e5	1.24	1.23	NO	0.9396	35.44	35.44	NO	1.000	1.000	49.6	99.2	NO
15	1,2,3,4,6,7,8-HpCDF	5.64e4	1.10e5	1.04	1.01	NO	1.0481	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO



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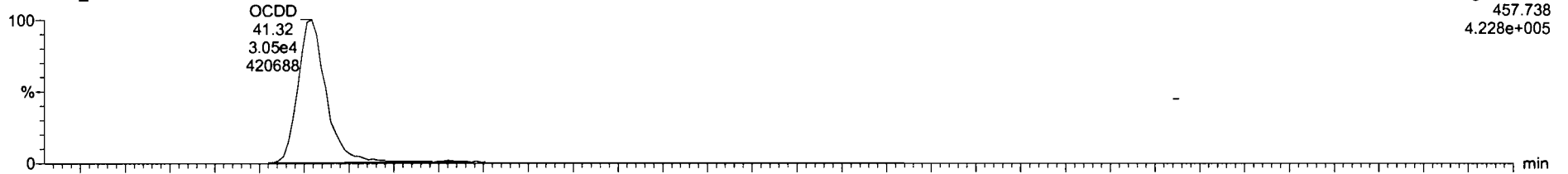
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Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

OCDD

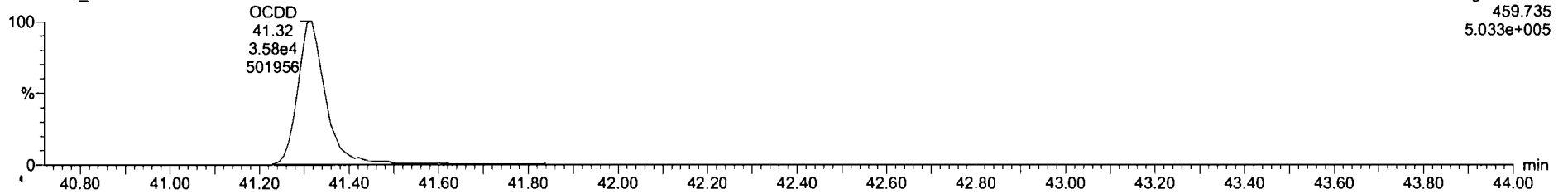
210609R1_1

F5:Voltage SIR,EI+
457.738
4.228e+005



210609R1_1

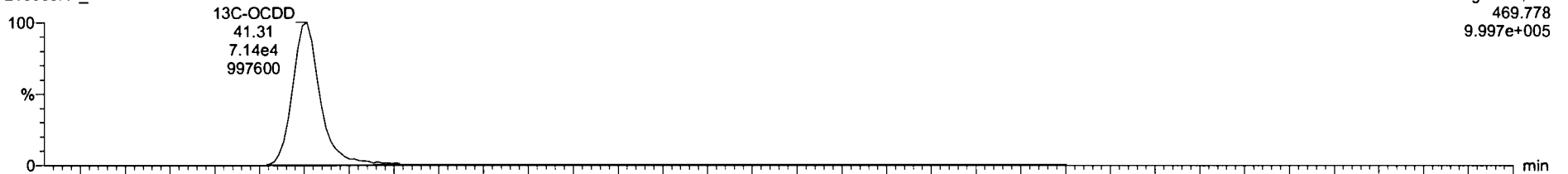
F5:Voltage SIR,EI+
459.735
5.033e+005



13C-OCDD.

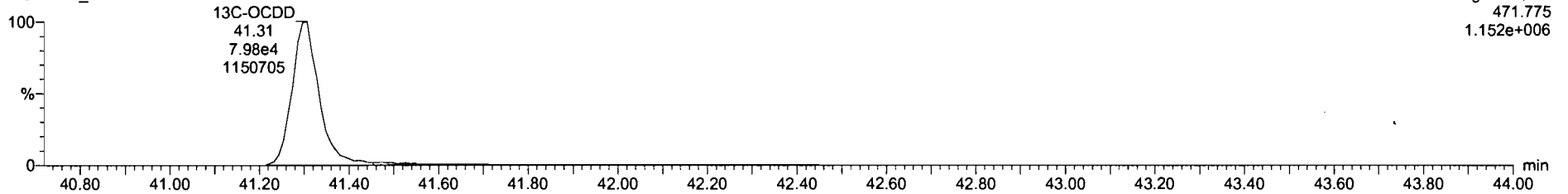
210609R1_1

F5:Voltage SIR,EI+
469.778
9.997e+005

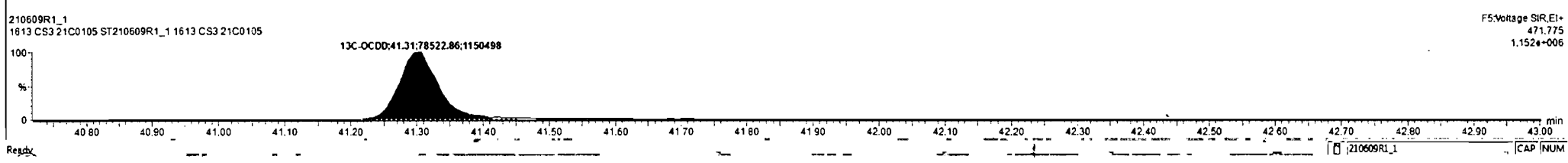
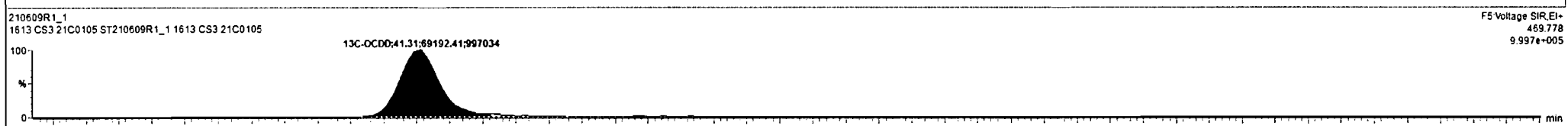
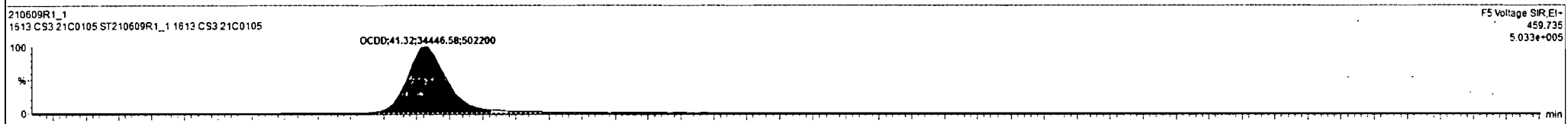
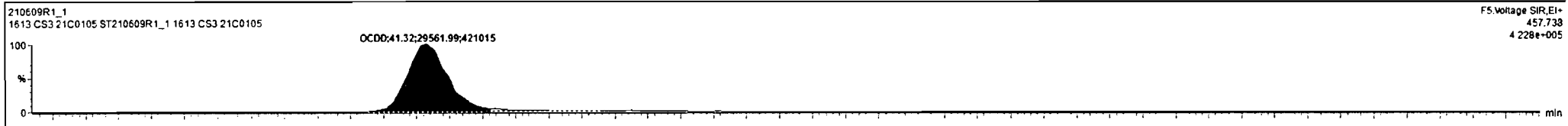


210609R1_1

F5:Voltage SIR,EI+
471.775
1.152e+006



#	Name	Reso	IS Resp	Pred RA	RA	nY	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.26	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.60	34.60	NO	1.001	1.001	51.2	102	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.8739	34.67	34.68	NO	1.000	1.001	45.2	98.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.02e4	9.04e4	1.04	1.04	NO	0.8987	36.25	36.25	NO	1.000	1.000	49.4	98.9	NO
7	OCDD	6.40e4	1.48e5	0.89	0.86	NO	0.8524	41.31	41.32	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.09e5	2.38e5	1.55	1.64	NO	0.8771	29.92	29.93	NO	1.000	1.001	52.0	104	NO
10	1,2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.8202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.74e4	1.23e5	1.24	1.23	NO	0.9396	35.44	35.44	NO	1.000	1.000	49.8	99.2	NO
15	1,2,3,4,6,7,8-HpCDF	5.64e4	1.10e5	1.04	1.01	NO	1.0461	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	4.40e4	6.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO

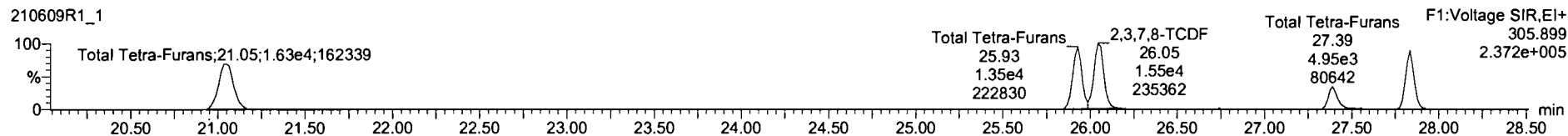
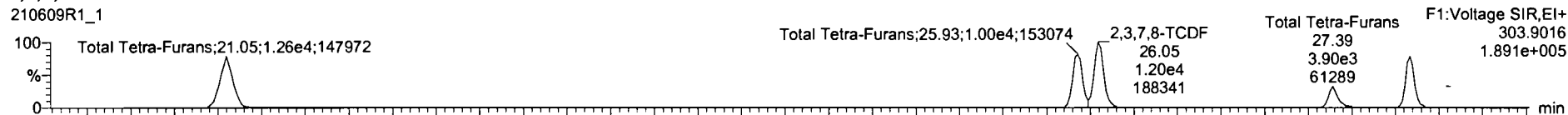


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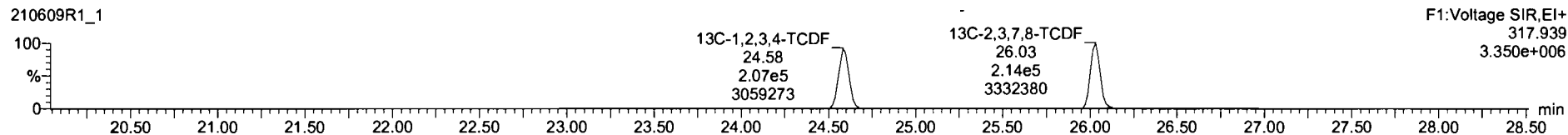
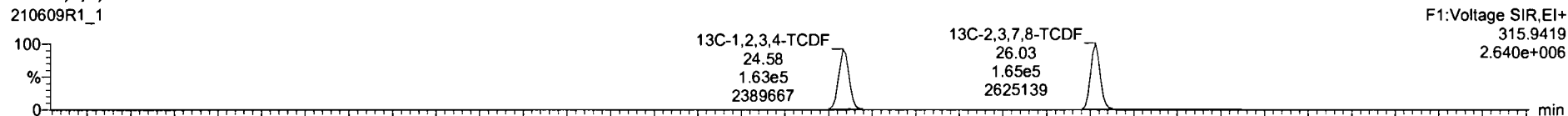
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Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

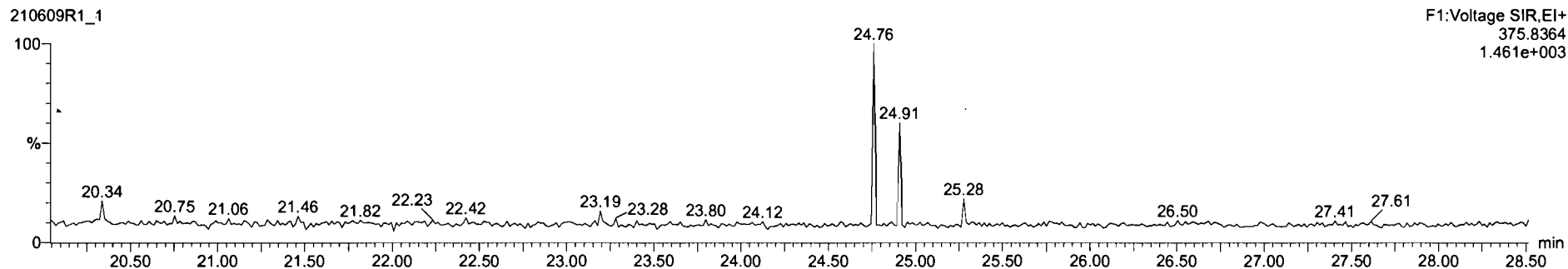
2,3,7,8-TCDF



13C-2,3,7,8-TCDF



DPE1



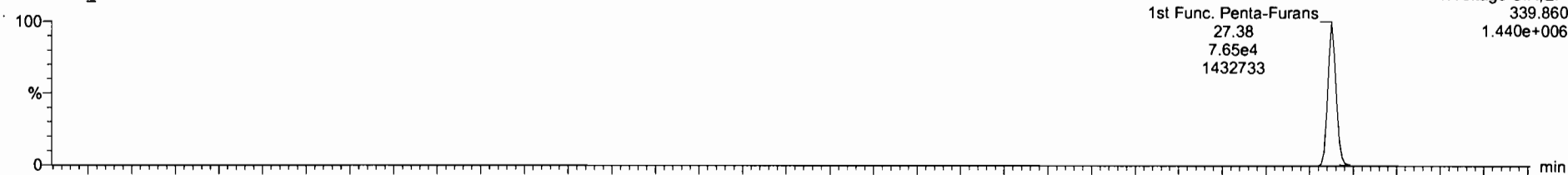
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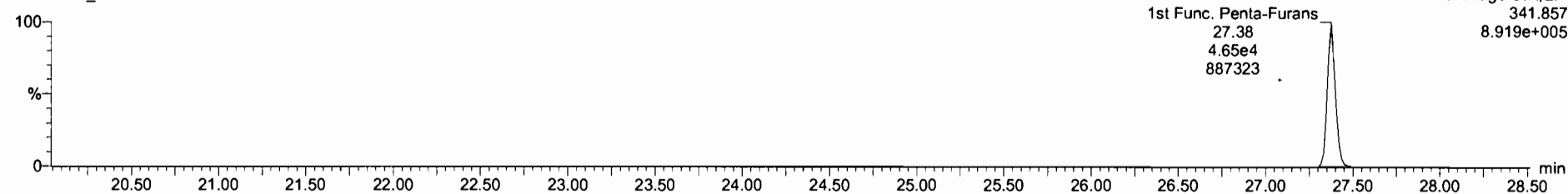
Name: 210609R1_1, Date: 09-Jun-2021, Time: 10:46:57, ID: ST210609R1_1 1613 CS3 21C0105, Description: 1613 CS3 21C0105

1st Func. Penta-Furans

210609R1_1

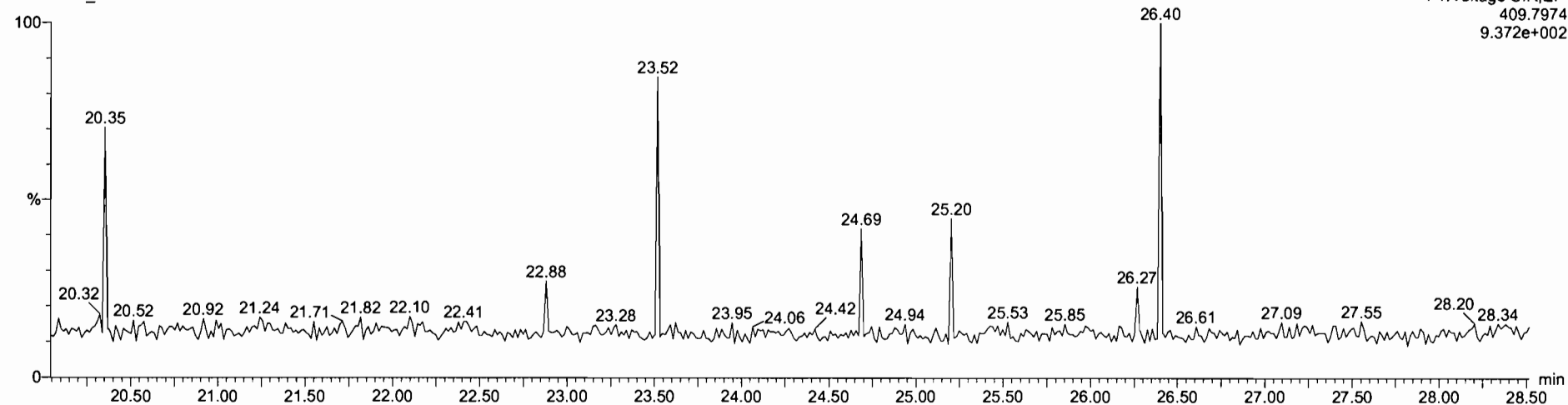


210609R1_1



DPE6

210609R1_1



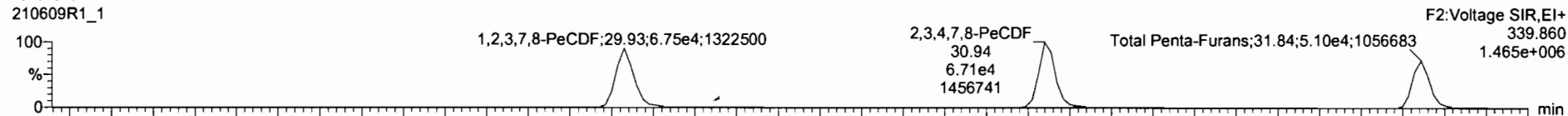
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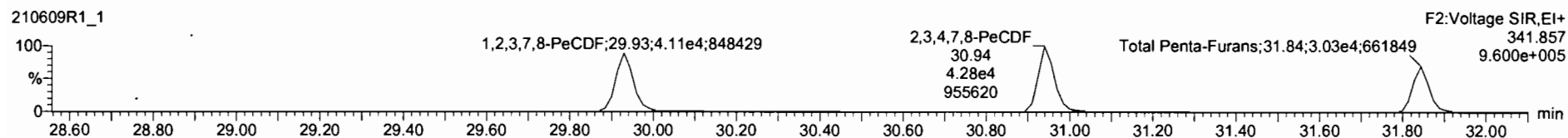
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1,2,3,7,8-PeCDF

210609R1_1

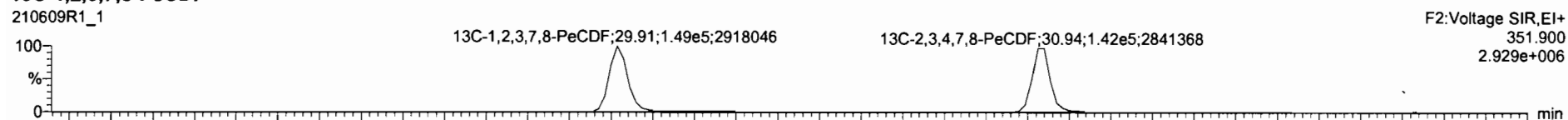


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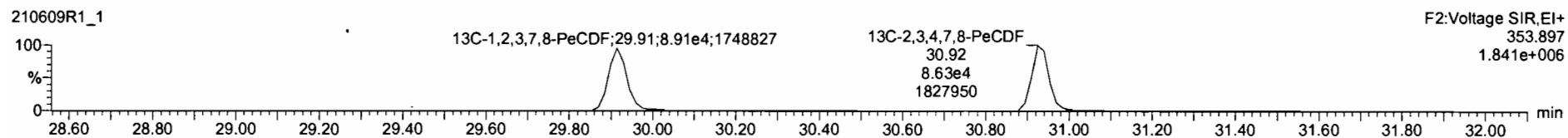


13C-1,2,3,7,8-PeCDF

210609R1_1

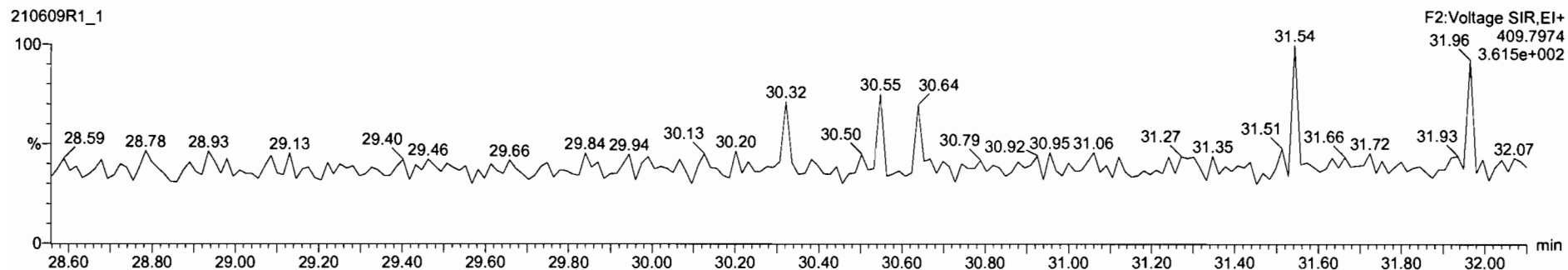


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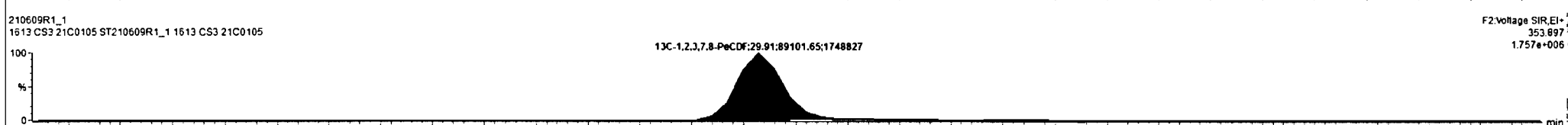
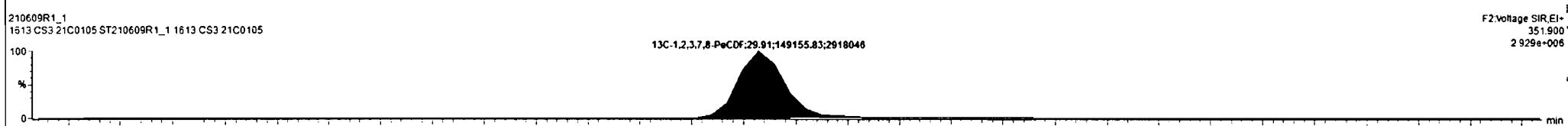
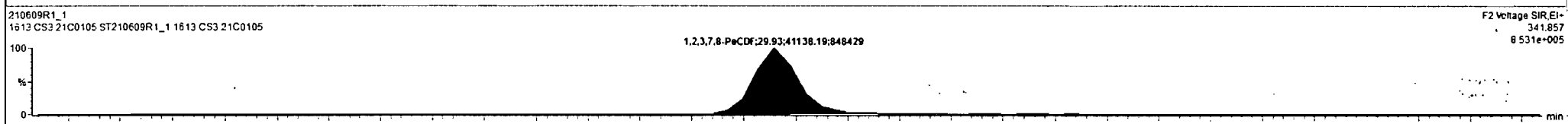
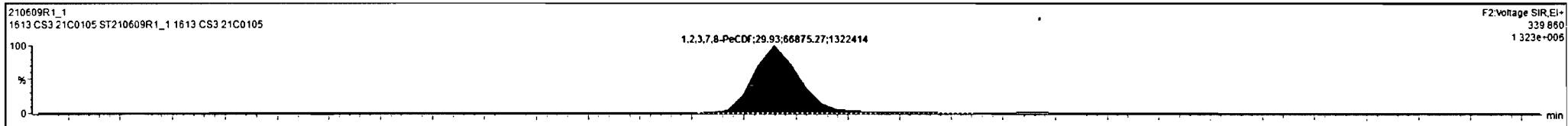


DPE2

210609R1_1



#	Name	Resp	IS Resp	Pred RA	RA	nY	RRF	Pred RT	RT	RT Flag	Pred RRT	r RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	29.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.26	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.60	34.60	NO	1.001	1.001	51.3	102	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.8739	34.87	34.88	NO	1.000	1.001	49.2	98.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.02e4	9.04e4	1.04	1.04	NO	0.8987	38.25	38.25	NO	1.000	1.000	49.4	98.9	NO
7	OCDD	6.40e4	1.48e5	0.89	0.86	NO	0.8524	41.31	41.32	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.08e5	2.38e5	1.55	1.83	NO	0.8771	29.92	29.93	NO	1.000	1.001	51.7	103	NO
10	2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.8202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.74e4	1.23e5	1.24	1.23	NO	0.9398	35.44	35.44	NO	1.000	1.000	49.6	99.2	NO
15	1,2,3,4,6,7,8-HpCDF	5.64e4	1.10e5	1.04	1.01	NO	1.0481	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO

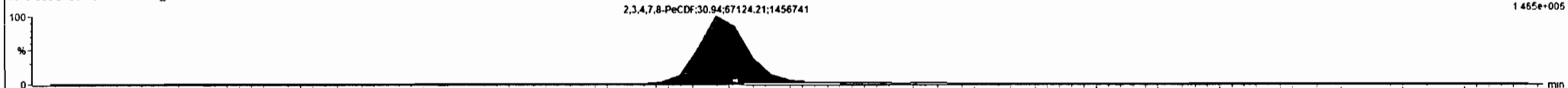


210609R1_1

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.2257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.26	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.60	34.60	NO	1.001	1.001	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.6739	34.87	34.88	NO	1.000	1.001	49.2	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.02e4	9.04e4	1.04	1.04	NO	0.8987	38.25	38.25	NO	1.000	1.000	49.4	98.9	NO
7	OCDD	6.40e4	1.48e5	0.89	0.86	NO	0.8524	41.31	41.32	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.08e5	2.38e5	1.55	1.63	NO	0.6771	29.92	29.93	NO	1.000	1.001	51.7	103	NO
10	2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.6202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.74e4	1.23e5	1.24	1.23	NO	0.9398	35.44	35.44	NO	1.000	1.000	49.6	99.2	NO
15	1,2,3,4,6,7,8-HpCDF	5.84e4	1.10e5	1.04	1.01	NO	1.0481	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO

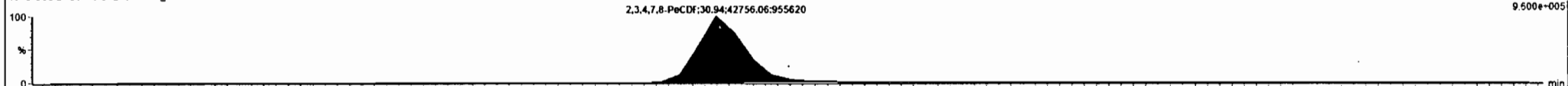
210609R1_1
1613 CS3 21C0105 ST210609R1_1 1613 CS3 21C0105

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1.465e+005



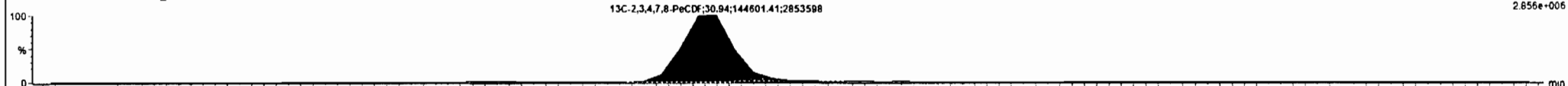
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F2:Voltage SIR.EI+
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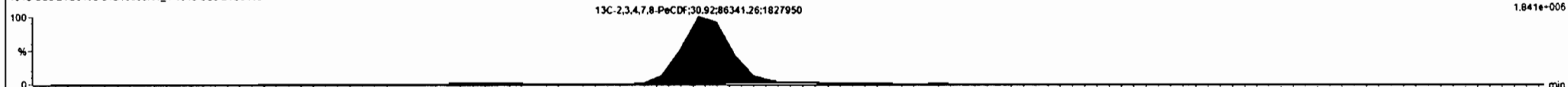
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1613 CS3 21C0105 ST210609R1_1 1613 CS3 21C0105

F2:Voltage SIR.EI+
351.900
2.856e+005



210609R1_1
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F2:Voltage SIR.EI+
353.897
1.841e+005



Ready

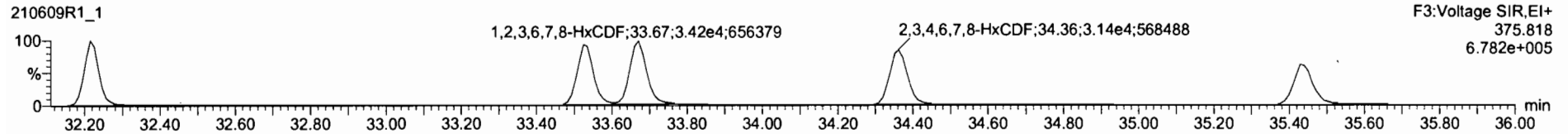
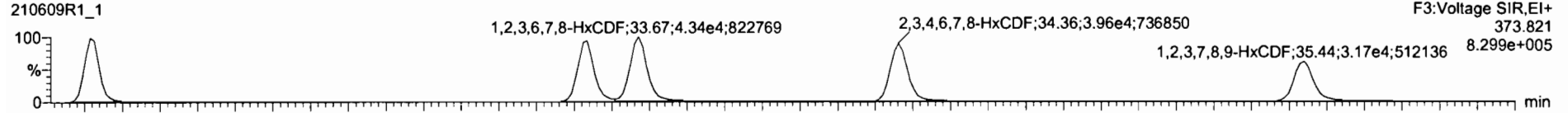
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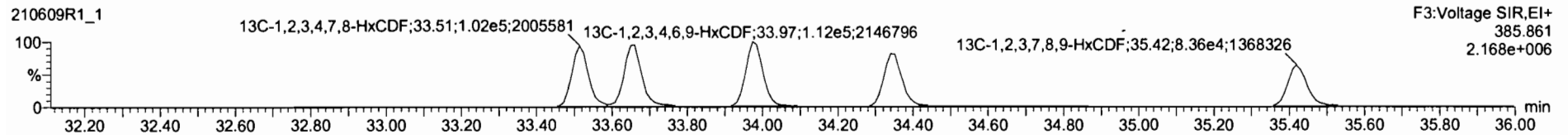
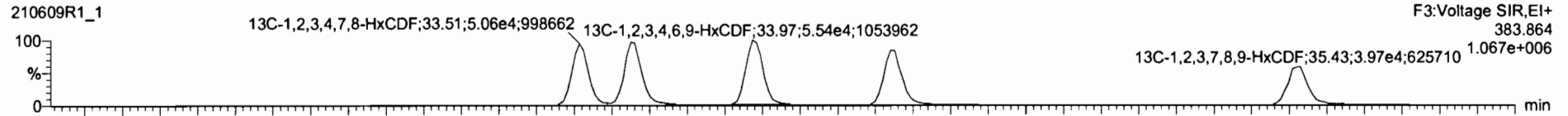
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Printed: Monday, June 14, 2021 16:36:42 Pacific Daylight Time

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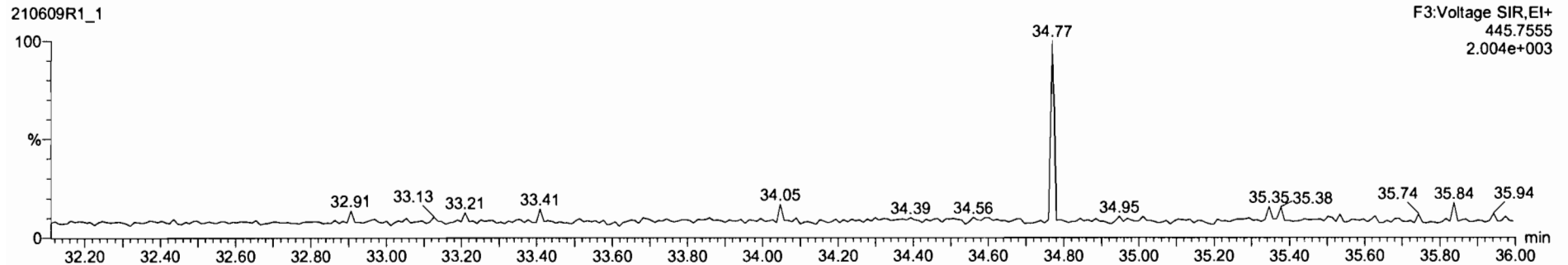
1,2,3,4,7,8-HxCDF



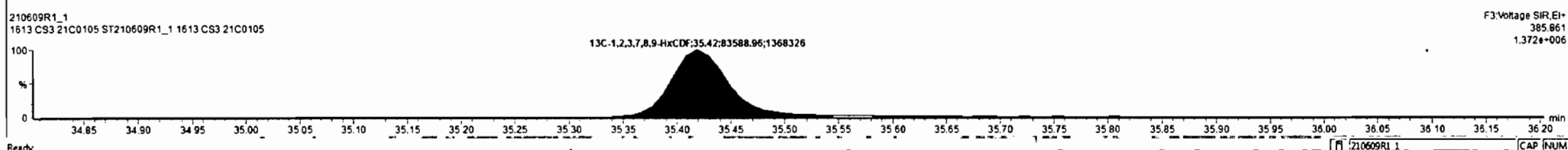
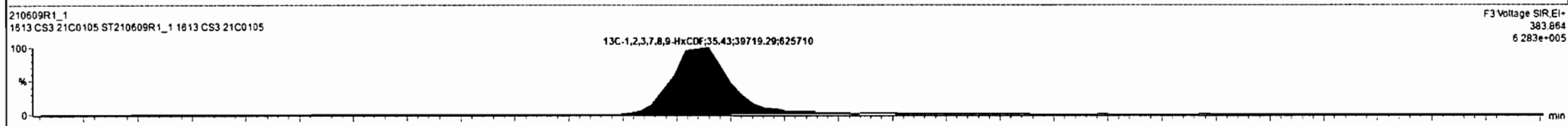
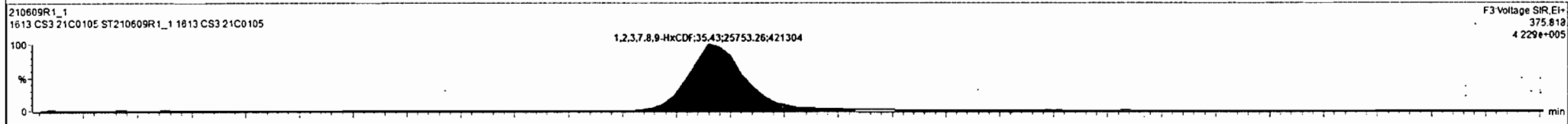
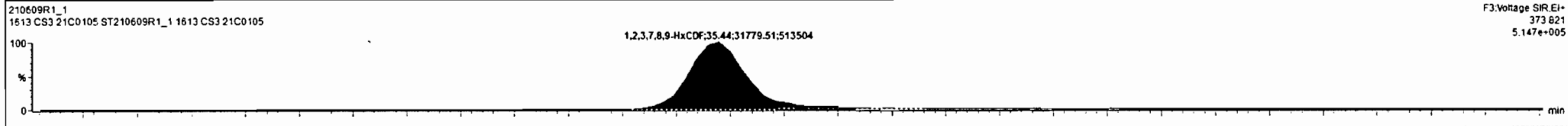
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.25	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.60	34.60	NO	1.001	1.001	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.8739	34.87	34.88	NO	1.000	1.001	49.2	98.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.02e4	9.04e4	1.04	1.04	NO	0.8967	38.25	38.25	NO	1.000	1.000	49.4	98.9	NO
7	OCDD	6.40e4	1.42e5	0.89	0.86	NO	0.8524	41.31	41.32	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7468	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.08e5	2.38e5	1.55	1.63	NO	0.8771	29.92	29.93	NO	1.000	1.001	51.7	103	NO
10	1,2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.9202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	1,2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.75e4	1.23e5	1.24	1.23	NO	0.9398	35.44	35.44	NO	1.000	1.000	49.7	99.3	NO
15	1,2,3,4,6,7,8-HpCDF	5.64e4	1.10e5	1.04	1.01	NO	1.0481	37.05	37.05	NO	1.000	1.000	48.9	97.7	NO
16	1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO

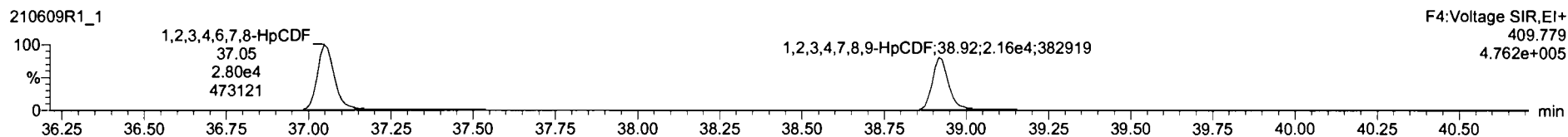
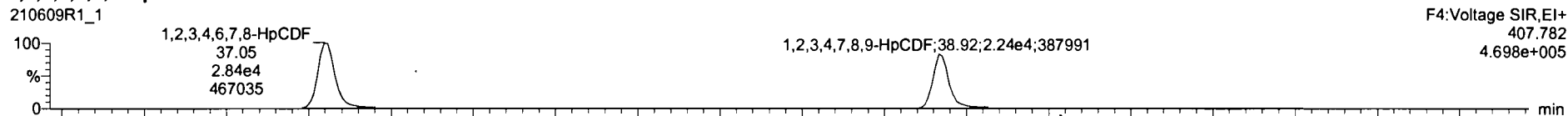


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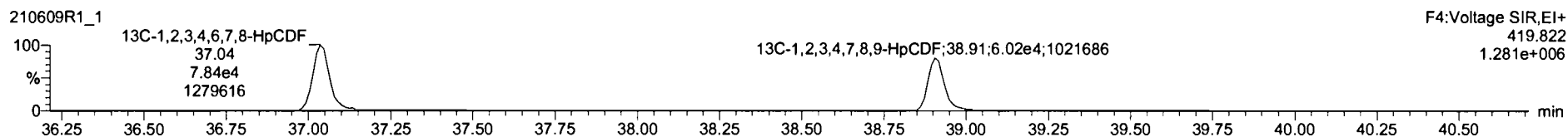
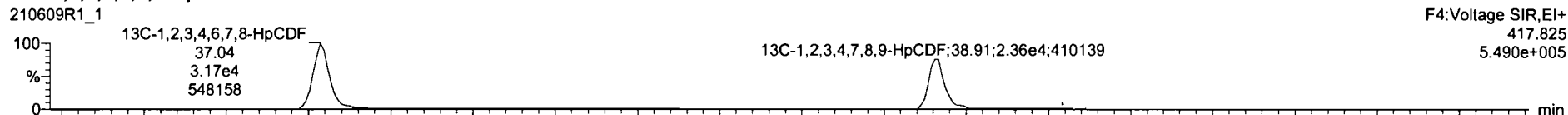
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Printed: Monday, June 14, 2021 16:36:42 Pacific Daylight Time

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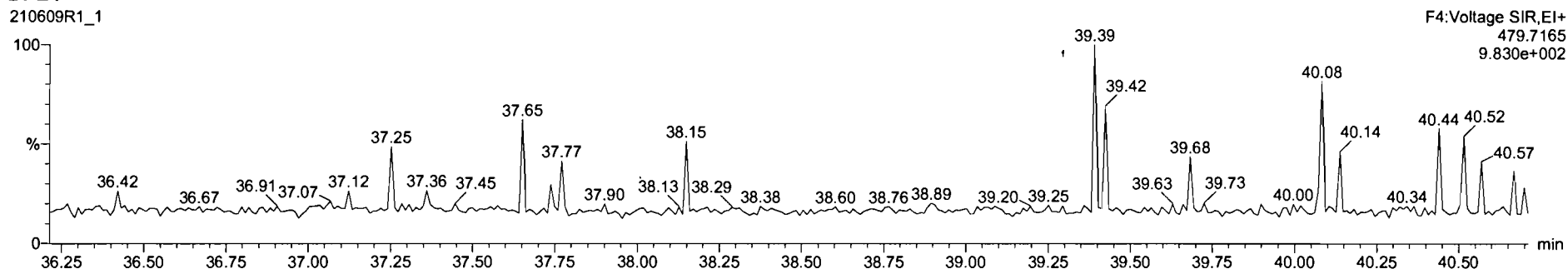
1,2,3,4,6,7,8-HpCDF



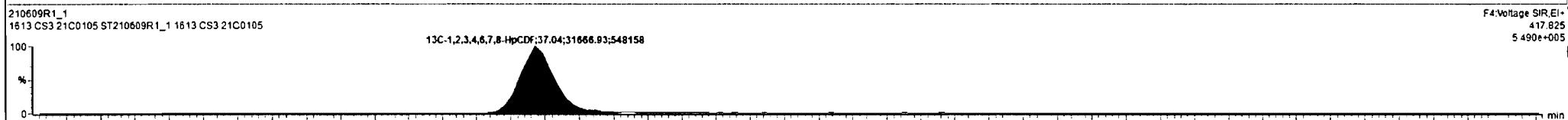
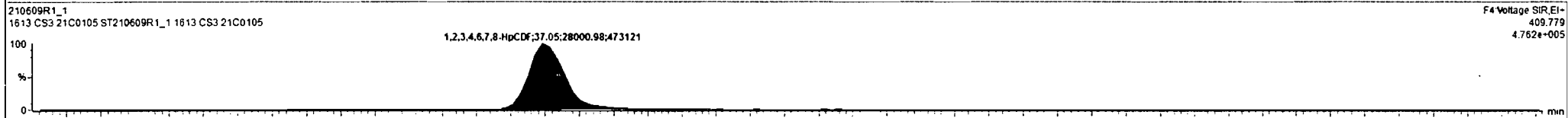
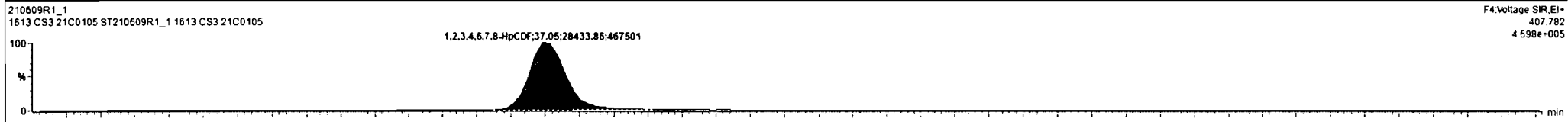
13C-1,2,3,4,6,7,8-HpCDF



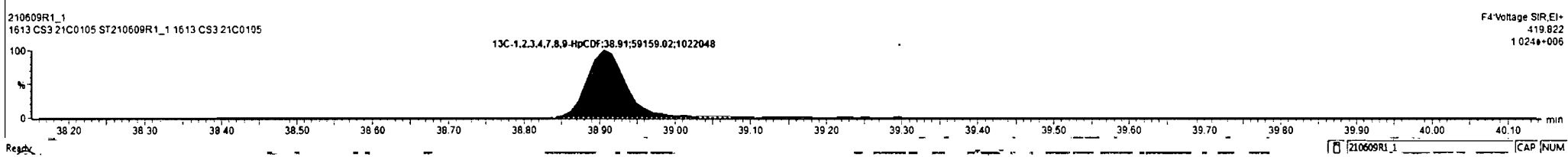
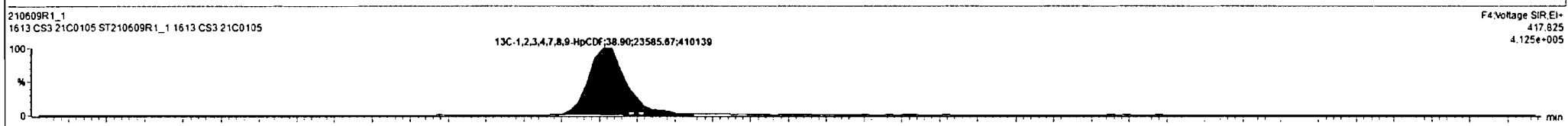
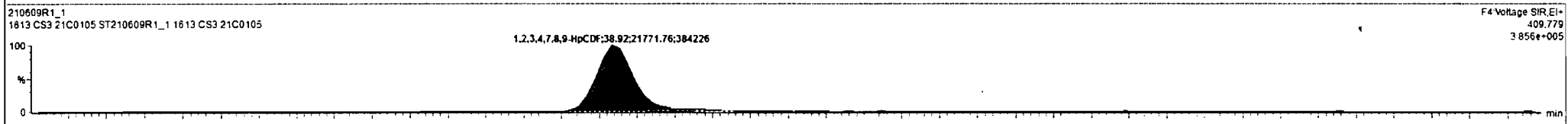
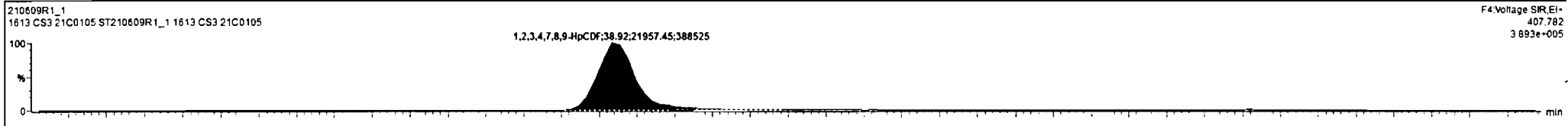
DPE4



#	Name	Resp	S Resp	Pred RA	RA	iv	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.63	0.61	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.26	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.80	34.60	NO	1.001	1.001	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.6739	34.87	34.68	NO	1.000	1.001	49.2	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.02e4	9.04e4	1.04	1.04	NO	0.8987	38.25	38.25	NO	1.000	1.000	49.4	98.9	NO
7	OCDD	6.40e4	1.48e5	0.89	0.86	NO	0.8524	41.31	41.32	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.08e5	2.38e5	1.55	1.63	NO	0.8771	29.92	29.93	NO	1.000	1.001	51.7	103	NO
10	2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.5202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.75e4	1.22e5	1.24	1.23	NO	0.9398	35.44	35.44	NO	1.000	1.000	49.7	99.3	NO
15	1,2,3,4,6,7,8-HpCDF	5.84e4	1.08e5	1.04	1.02	NO	1.0481	37.05	37.05	NO	1.000	1.000	49.8	99.6	NO
16	1,2,3,4,7,8,9-HpCDF	4.40e4	8.37e4	1.04	1.03	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.3	101	NO



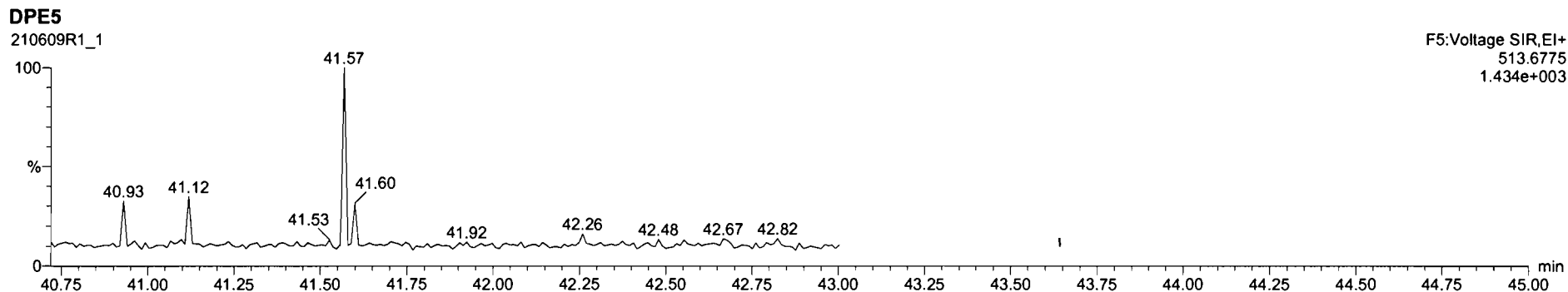
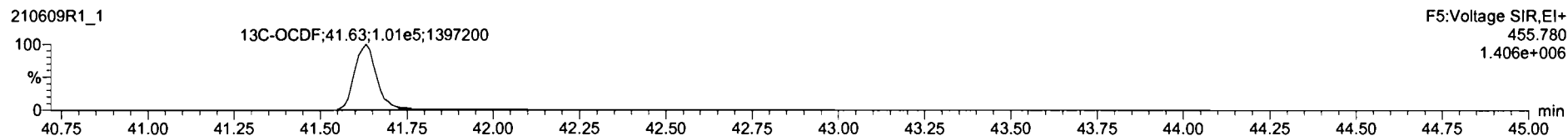
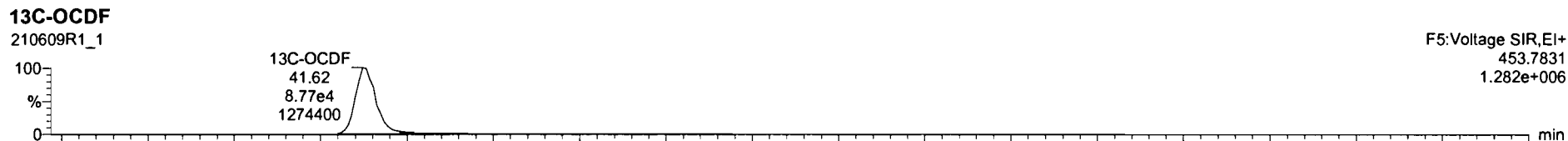
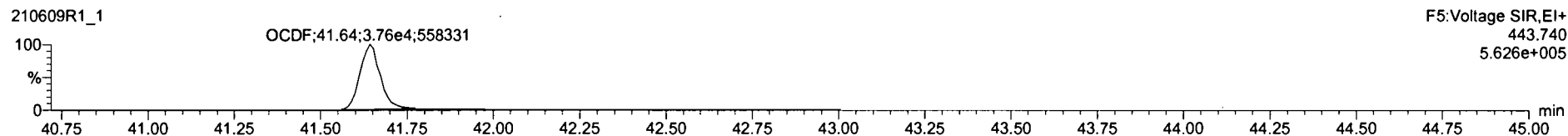
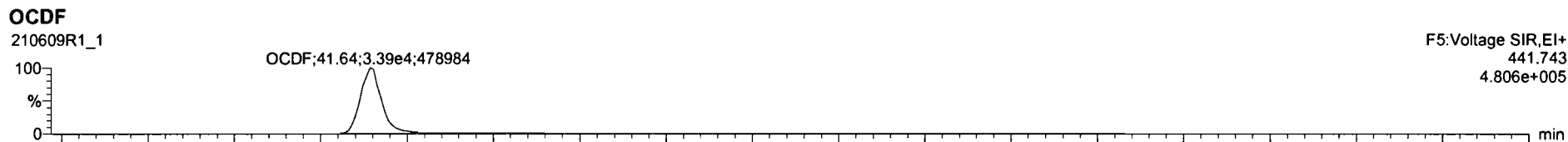
#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	2.19e4	2.50e5	0.77	0.78	NO	0.9291	26.68	26.68	NO	1.001	1.001	9.42	94.2	NO
2	1,2,3,7,8-PeCDD	6.51e4	1.55e5	0.83	0.81	NO	0.8257	31.14	31.12	NO	1.001	1.000	50.9	102	NO
3	1,2,3,4,7,8-HxCDD	5.32e4	1.05e5	1.24	1.26	NO	0.9725	34.48	34.47	NO	1.001	1.000	51.8	104	NO
4	1,2,3,6,7,8-HxCDD	5.51e4	1.22e5	1.24	1.25	NO	0.8771	34.60	34.60	NO	1.001	1.001	51.3	103	NO
5	1,2,3,7,8,9-HxCDD	5.37e4	1.25e5	1.24	1.27	NO	0.8739	34.87	34.88	NO	1.000	1.001	49.2	98.3	NO
6	1,2,3,4,6,7,8-HpCDD	4.02e4	9.04e4	1.04	1.04	NO	0.8927	38.25	38.25	NO	1.000	1.000	45.4	98.9	NO
7	OCDD	6.40e4	1.48e5	0.89	0.86	NO	0.8524	41.31	41.32	NO	1.000	1.000	102	102	NO
8	2,3,7,8-TCDF	2.75e4	3.79e5	0.77	0.78	NO	0.7466	26.03	26.05	NO	1.000	1.001	9.71	97.1	NO
9	1,2,3,7,8-PeCDF	1.08e5	2.38e5	1.55	1.63	NO	0.8771	29.92	29.93	NO	1.000	1.001	51.7	103	NO
10	2,3,4,7,8-PeCDF	1.10e5	2.31e5	1.55	1.57	NO	0.9621	30.96	30.94	NO	1.001	1.000	49.5	98.9	NO
11	1,2,3,4,7,8-HxCDF	7.06e4	1.53e5	1.24	1.25	NO	0.9202	33.52	33.53	NO	1.000	1.001	50.3	101	NO
12	1,2,3,6,7,8-HxCDF	7.75e4	1.67e5	1.24	1.27	NO	0.9363	33.67	33.67	NO	1.001	1.001	49.5	99.1	NO
13	2,3,4,6,7,8-HxCDF	7.11e4	1.49e5	1.24	1.26	NO	0.9725	34.36	34.36	NO	1.001	1.001	49.0	98.0	NO
14	1,2,3,7,8,9-HxCDF	5.75e4	1.23e5	1.24	1.23	NO	0.9396	35.44	35.44	NO	1.000	1.000	49.7	99.3	NO
15	1,2,3,4,6,7,8-HpCDF	5.84e4	1.08e5	1.04	1.02	NO	1.0481	37.05	37.05	NO	1.000	1.000	49.8	99.6	NO
16	1,2,3,4,7,8,9-HpCDF	4.37e4	8.27e4	1.04	1.01	NO	1.0453	38.92	38.92	NO	1.000	1.000	50.6	101	NO



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Last Altered: Monday, June 14, 2021 16:36:33 Pacific Daylight Time
Printed: Monday, June 14, 2021 16:36:42 Pacific Daylight Time

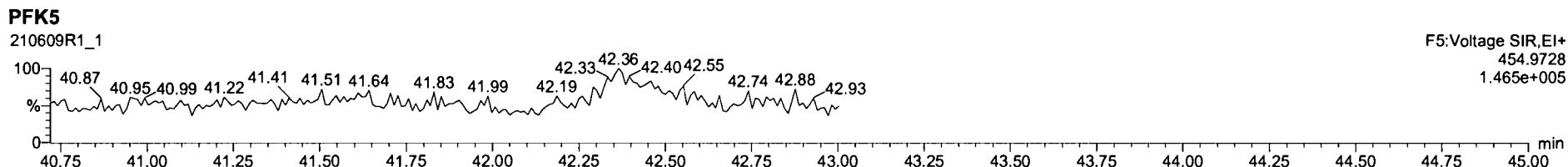
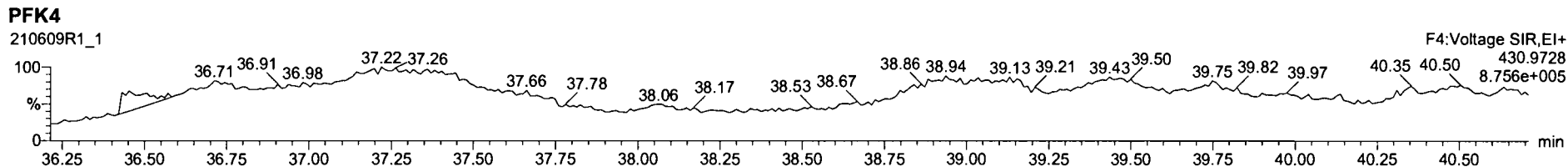
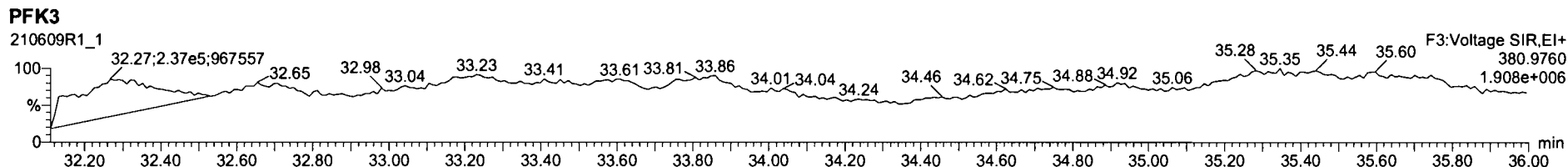
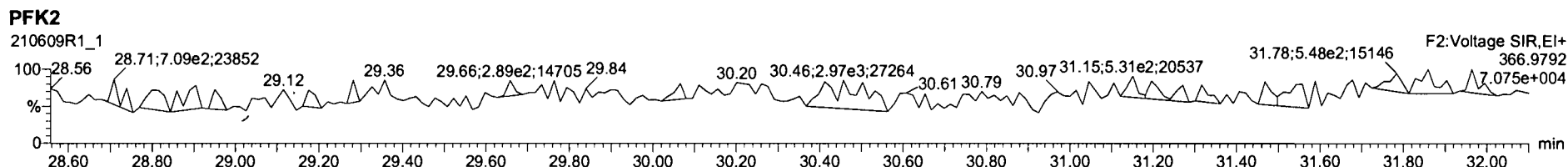
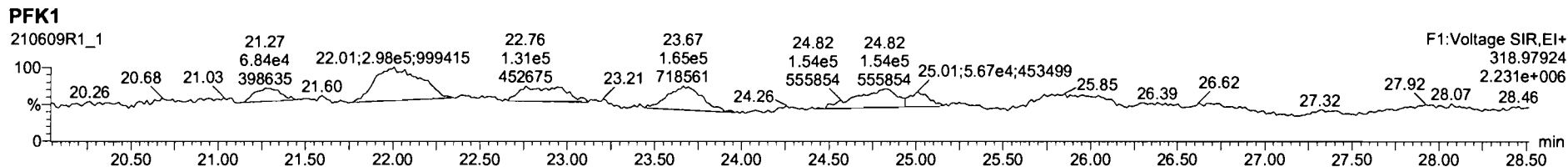
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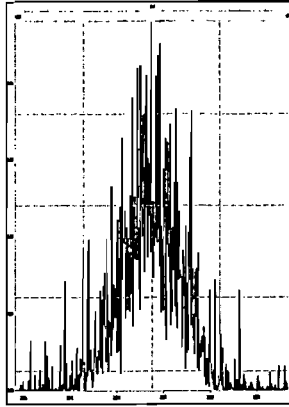
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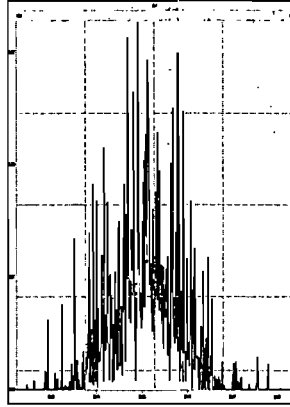


Printed: Wednesday, June 09, 2021 22:57:34 Pacific Daylight Time

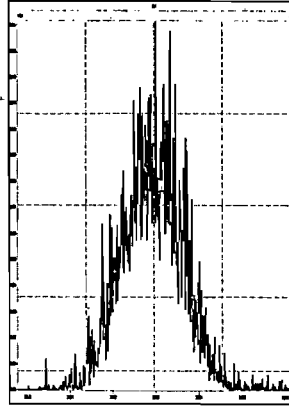
M 292.9824 R 14854



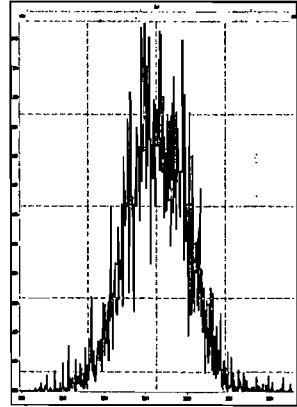
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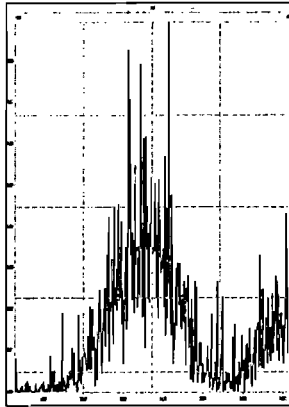
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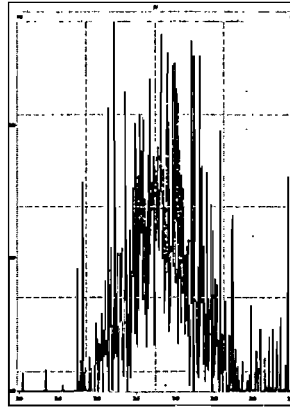
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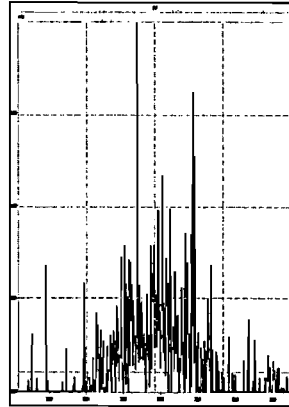
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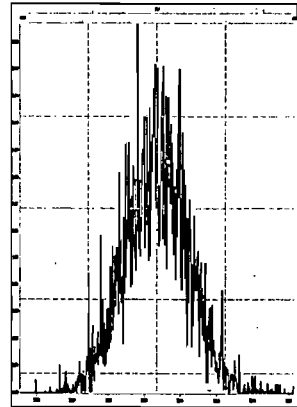
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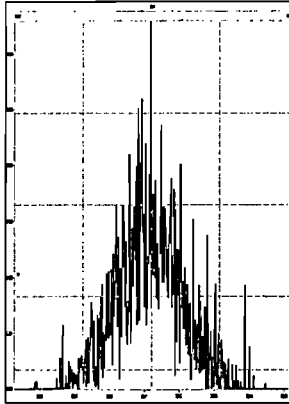
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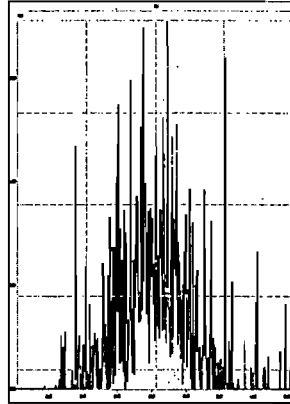
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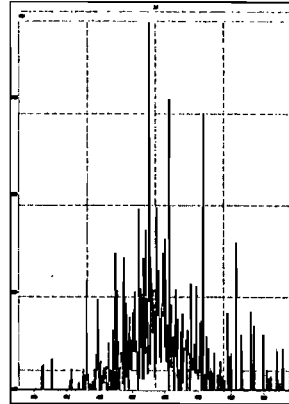
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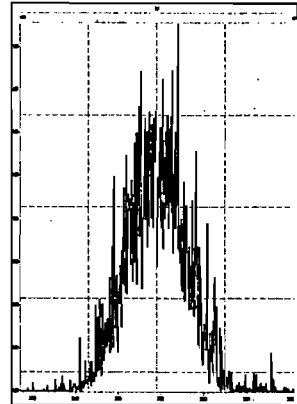
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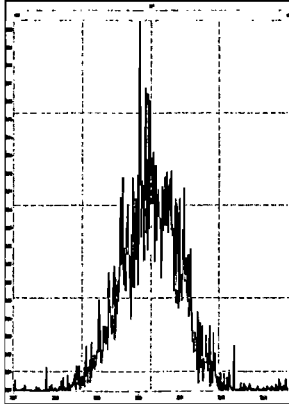
M 416.9760 R 61383



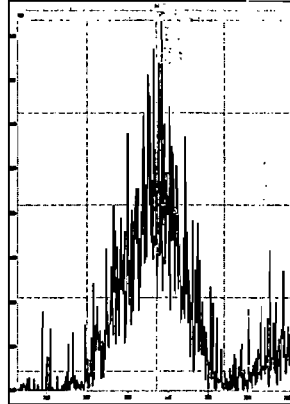
M 318.9792 R 12559



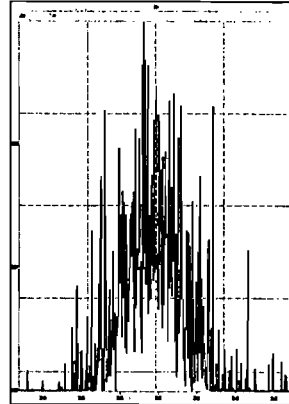
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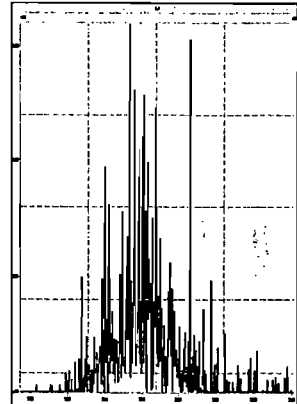
M 342.9792 R 12167



M 354.9792 R 18403

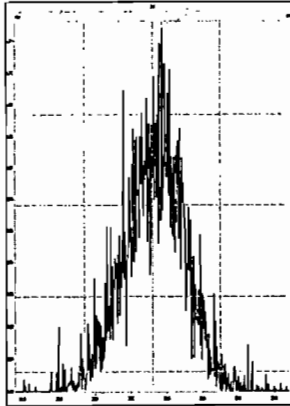


M 366.9792 R 57927

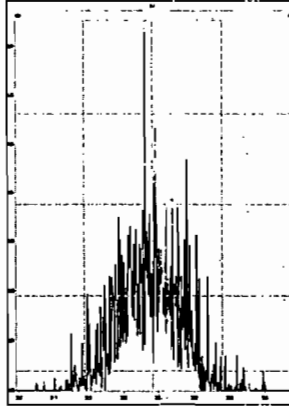


Printed: Wednesday, June 09, 2021 22:57:34 Pacific Daylight Time

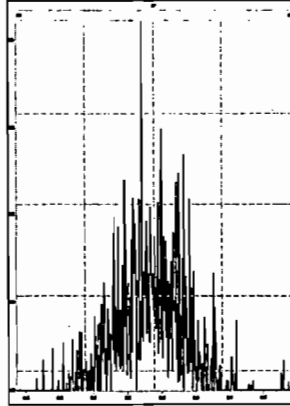
M 380.9760 R 12290



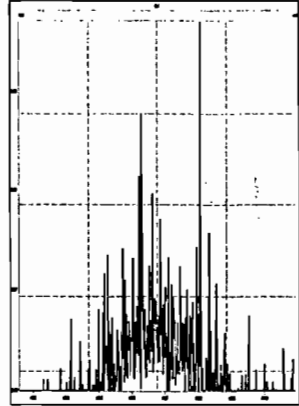
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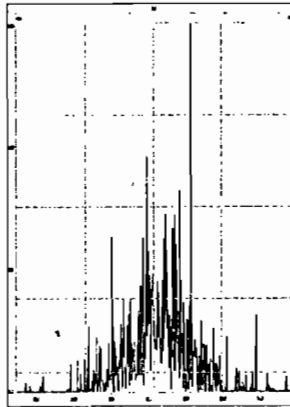
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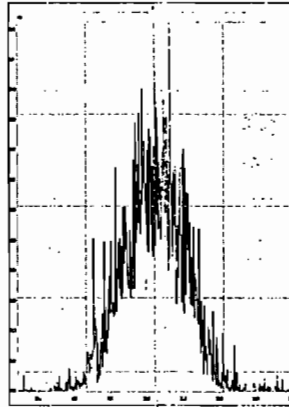
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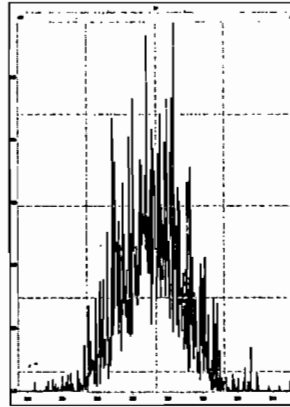
M 366.9792 R 41101



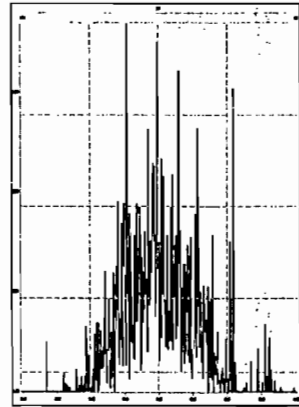
M 380.9760 R 11878



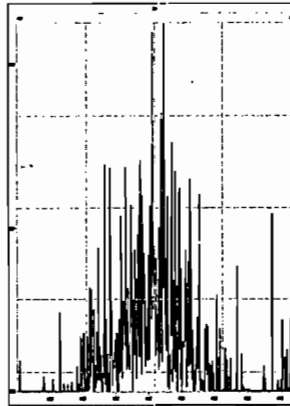
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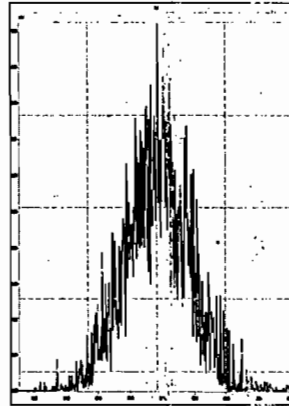
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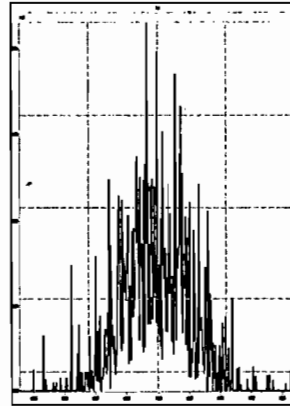
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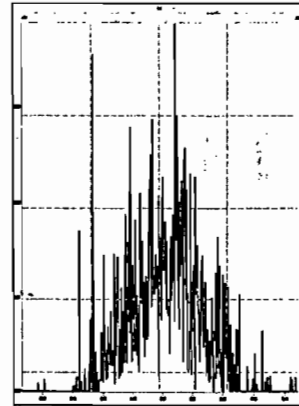
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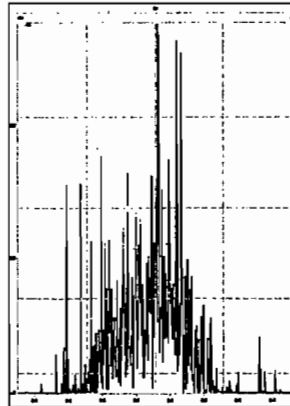
M 442.9728 R 16684



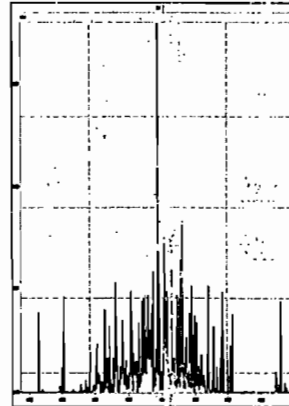
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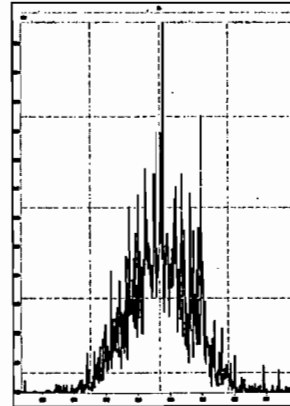
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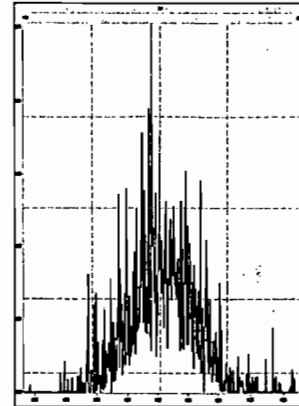
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M 430.9728 R 11975

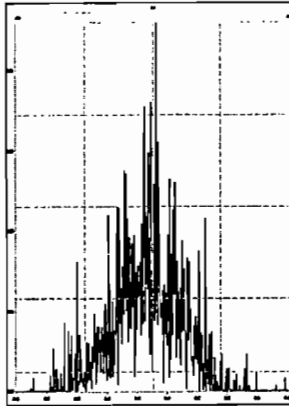


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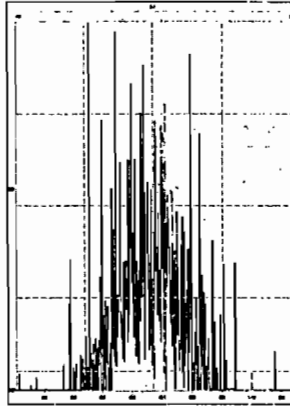


Printed: Wednesday, June 09, 2021 22:57:34 Pacific Daylight Time

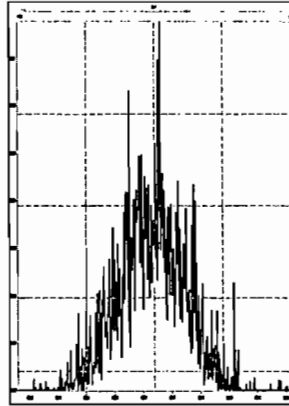
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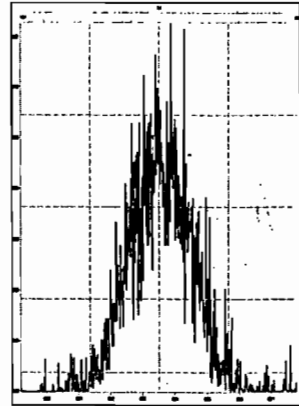
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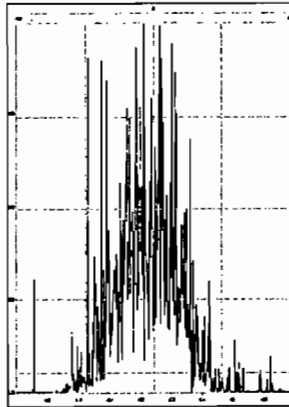
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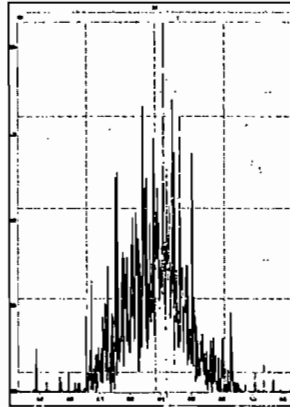
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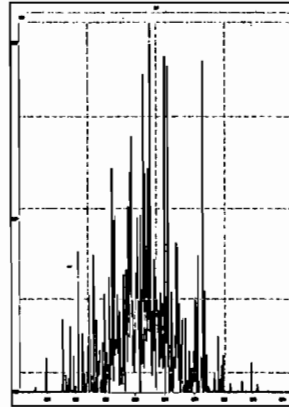
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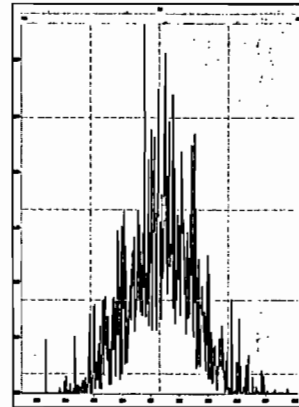
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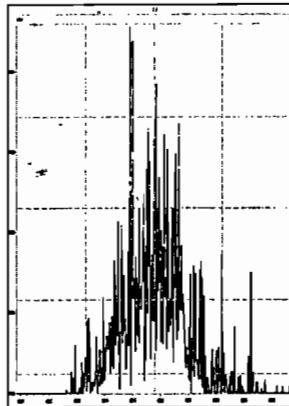
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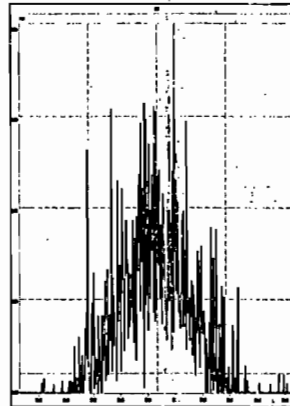
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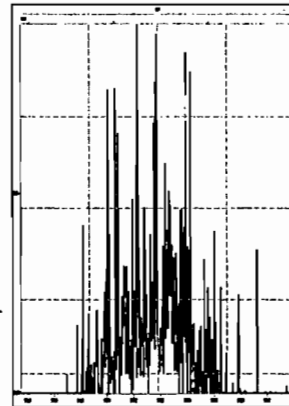
M 492.9696 R 24859



M 504.9696 R 16968



M 516.9697 R 45048



INITIAL CALIBRATION

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

Last Altered: Thursday, April 15, 2021 09:26:26 Pacific Daylight Time

Printed: Thursday, April 15, 2021 10:31:17 Pacific Daylight Time

HN 04/15/21
DF 04/15/21

Method: U:\VG12.PRO\MethDB\1613rrt-04-06-21.mdb 06 Apr 2021 08:35:23

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Compound name: 2,3,7,8-TCDD

Response Factor: 0.92906

RRF SD: 0.0829232, Relative SD: 8.9255

Response type: Internal Std (Ref 18), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	0.250	0.69	NO	26.94	1.001	2.81e3	1.31e6	0.231	-7.8	0.857	MM
2	210414R1_2	0.500	0.82	NO	26.96	1.001	6.87e3	1.46e6	0.507	1.4	0.942	MM
3	210414R1_3	2.00	0.76	NO	26.94	1.001	2.40e4	1.48e6	1.75	-12.6	0.812	bb
4	210414R1_4	40.0	0.77	NO	26.93	1.001	6.51e5	1.59e6	43.9	9.8	1.02	bb
5	210414R1_5	300	0.77	NO	26.94	1.001	4.47e6	1.47e6	327	8.9	1.01	bb
6	210414R1_6	10.0	0.78	NO	26.94	1.000	1.54e5	1.66e6	10.0	0.2	0.931	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.825708

RRF SD: 0.0482142, Relative SD: 5.83913

Response type: Internal Std (Ref 19), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	0.68	NO	31.27	1.001	1.03e4	1.03e6	1.22	-2.7	0.804	bb
2	210414R1_2	2.50	0.60	NO	31.27	1.000	2.37e4	1.16e6	2.48	-0.9	0.818	bb
3	210414R1_3	10.0	0.63	NO	31.27	1.000	8.36e4	1.11e6	9.09	-9.1	0.750	bb
4	210414R1_4	200	0.62	NO	31.26	1.000	2.19e6	1.24e6	215	7.4	0.887	bb
5	210414R1_5	1500	0.62	NO	31.27	1.000	1.58e7	1.22e6	1570	5.0	0.867	bb
6	210414R1_6	50.0	0.61	NO	31.27	1.000	5.16e5	1.25e6	50.1	0.3	0.828	bb

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

Last Altered: Thursday, April 15, 2021 09:26:26 Pacific Daylight Time
 Printed: Thursday, April 15, 2021 10:31:17 Pacific Daylight Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 0.972464
 RRF SD: 0.0862714, Relative SD: 8.87143
 Response type: Internal Std (Ref 20), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.23	NO	34.61	1.001	7.39e3	6.55e5	1.16	-7.2	0.903	bd
2	210414R1_2	2.50	1.23	NO	34.62	1.000	1.65e4	7.11e5	2.38	-4.7	0.927	bd
3	210414R1_3	10.0	1.24	NO	34.62	1.001	6.42e4	7.40e5	8.92	-10.8	0.867	bd
4	210414R1_4	200	1.23	NO	34.61	1.001	1.78e6	8.23e5	223	11.4	1.08	bd
5	210414R1_5	1500	1.23	NO	34.62	1.001	1.34e7	8.49e5	1620	7.9	1.05	bd
6	210414R1_6	50.0	1.24	NO	34.62	1.000	4.13e5	8.23e5	51.7	3.3	1.00	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.877085
 RRF SD: 0.0559574, Relative SD: 6.37993
 Response type: Internal Std (Ref 21), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.13	NO	34.73	1.000	8.05e3	7.49e5	1.23	-2.0	0.860	MM
2	210414R1_2	2.50	1.24	NO	34.76	1.001	1.71e4	8.03e5	2.42	-3.0	0.850	db
3	210414R1_3	10.0	1.23	NO	34.74	1.000	6.53e4	8.25e5	9.02	-9.8	0.791	db
4	210414R1_4	200	1.23	NO	34.73	1.000	1.79e6	9.47e5	216	8.0	0.947	db
5	210414R1_5	1500	1.23	NO	34.74	1.000	1.34e7	9.70e5	1580	5.2	0.923	db
6	210414R1_6	50.0	1.24	NO	34.76	1.001	4.13e5	9.27e5	50.8	1.7	0.892	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.873924
 RRF SD: 0.0774391, Relative SD: 8.86108
 Response type: Internal Std (Ref 22), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.22	NO	35.03	1.000	7.66e3	7.49e5	1.17	-6.5	0.818	MM
2	210414R1_2	2.50	1.29	NO	35.04	1.000	1.84e4	8.90e5	2.37	-5.3	0.828	bb

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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	10.0	1.28	NO	35.04	1.000	6.56e4	8.45e5	8.89	-11.1	0.777	bb
4	210414R1_4	200	1.23	NO	35.03	1.001	1.84e6	9.50e5	222	11.1	0.971	bb
5	210414R1_5	1500	1.21	NO	35.04	1.001	1.39e7	9.79e5	1620	8.0	0.943	bb
6	210414R1_6	50.0	1.24	NO	35.05	1.001	4.26e5	9.39e5	51.9	3.8	0.907	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.898742

RRF SD: 0.0677039, Relative SD: 7.53319

Response type: Internal Std (Ref 23), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.02	NO	38.31	1.001	6.55e3	6.08e5	1.20	-4.2	0.861	MM
2	210414R1_2	2.50	1.02	NO	38.32	1.001	1.72e4	7.70e5	2.48	-0.8	0.891	bb
3	210414R1_3	10.0	1.00	NO	38.31	1.000	4.86e4	6.13e5	8.82	-11.8	0.793	bb
4	210414R1_4	200	1.02	NO	38.29	1.000	1.34e6	6.81e5	218	9.2	0.981	bb
5	210414R1_5	1500	1.02	NO	38.31	1.000	1.03e7	7.20e5	1600	6.5	0.957	bb
6	210414R1_6	50.0	1.02	NO	38.31	1.000	3.16e5	6.96e5	50.6	1.1	0.909	bb

Compound name: OCDD

Response Factor: 0.852404

RRF SD: 0.0637924, Relative SD: 7.48382

Response type: Internal Std (Ref 24), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	2.50	0.86	NO	41.31	1.000	1.11e4	1.09e6	2.38	-4.9	0.811	bb
2	210414R1_2	5.00	0.88	NO	41.33	1.000	2.60e4	1.27e6	4.79	-4.2	0.816	bb
3	210414R1_3	20.0	0.88	NO	41.33	1.000	7.75e4	1.01e6	18.0	-10.0	0.767	MM
4	210414R1_4	400	0.88	NO	41.31	1.000	2.13e6	1.15e6	436	9.1	0.930	bb
5	210414R1_5	3000	0.88	NO	41.32	1.000	1.66e7	1.21e6	3200	6.7	0.909	bb
6	210414R1_6	100	0.88	NO	41.33	1.000	5.13e5	1.16e6	103	3.4	0.881	bb

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Compound name: 2,3,7,8-TCDF

Response Factor: 0.746581
 RRF SD: 0.0693432, Relative SD: 9.2881
 Response type: Internal Std (Ref 25), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	0.250	0.79	NO	26.35	1.001	3.87e3	2.17e6	0.239	-4.3	0.715	MM
2	210414R1_2	0.500	0.71	NO	26.35	1.001	7.34e3	2.13e6	0.461	-7.9	0.688	MM
3	210414R1_3	2.00	0.79	NO	26.35	1.001	2.64e4	2.00e6	1.77	-11.5	0.661	bb
4	210414R1_4	40.0	0.75	NO	26.34	1.001	7.03e5	2.14e6	44.0	10.0	0.821	bb
5	210414R1_5	300	0.76	NO	26.34	1.001	4.78e6	1.93e6	331	10.4	0.824	bb
6	210414R1_6	10.0	0.74	NO	26.34	1.001	1.75e5	2.27e6	10.3	3.2	0.771	db

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.877118
 RRF SD: 0.0717768, Relative SD: 8.18326
 Response type: Internal Std (Ref 26), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.52	NO	30.10	1.000	1.34e4	1.36e6	1.13	-9.9	0.790	bb
2	210414R1_2	2.50	1.55	NO	30.11	1.000	3.37e4	1.58e6	2.44	-2.6	0.855	MM
3	210414R1_3	10.0	1.62	NO	30.11	1.000	1.20e5	1.49e6	9.20	-8.0	0.807	bb
4	210414R1_4	200	1.54	NO	30.10	1.000	3.16e6	1.64e6	220	10.2	0.967	bb
5	210414R1_5	1500	1.56	NO	30.10	1.000	2.26e7	1.60e6	1610	7.2	0.940	bb
6	210414R1_6	50.0	1.56	NO	30.11	1.000	7.73e5	1.71e6	51.5	3.0	0.904	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 0.962056
 RRF SD: 0.0674767, Relative SD: 7.0138
 Response type: Internal Std (Ref 27), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.48	NO	31.09	1.000	1.69e4	1.46e6	1.20	-3.8	0.926	MM
2	210414R1_2	2.50	1.58	NO	31.11	1.000	3.69e4	1.61e6	2.38	-4.7	0.917	bd

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Compound name: 2,3,4,7,8-PeCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	10.0	1.52	NO	31.11	1.000	1.29e5	1.48e6	9.10	-9.0	0.876	bb
4	210414R1_4	200	1.55	NO	31.09	1.000	3.30e6	1.58e6	218	8.8	1.05	bb
5	210414R1_5	1500	1.54	NO	31.09	1.000	2.35e7	1.52e6	1600	6.9	1.03	bb
6	210414R1_6	50.0	1.54	NO	31.11	1.000	8.04e5	1.64e6	50.8	1.7	0.978	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.92023

RRF SD: 0.0757729, Relative SD: 8.23412

Response type: Internal Std (Ref 28), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.17	NO	33.67	1.000	1.13e4	1.06e6	1.16	-7.6	0.850	bd
2	210414R1_2	2.50	1.18	NO	33.69	1.001	2.33e4	1.06e6	2.38	-4.7	0.877	bd
3	210414R1_3	10.0	1.23	NO	33.69	1.001	7.99e4	9.58e5	9.06	-9.4	0.834	bd
4	210414R1_4	200	1.22	NO	33.67	1.000	2.12e6	1.05e6	219	9.6	1.01	bd
5	210414R1_5	1500	1.22	NO	33.68	1.000	1.52e7	1.02e6	1620	7.8	0.992	bd
6	210414R1_6	50.0	1.22	NO	33.69	1.000	5.12e5	1.07e6	52.2	4.3	0.960	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.936295

RRF SD: 0.0726577, Relative SD: 7.76013

Response type: Internal Std (Ref 29), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.25	NO	33.81	1.001	1.19e4	1.11e6	1.15	-8.2	0.859	db
2	210414R1_2	2.50	1.21	NO	33.82	1.000	2.49e4	1.10e6	2.41	-3.5	0.904	db
3	210414R1_3	10.0	1.22	NO	33.82	1.000	8.72e4	1.01e6	9.21	-7.9	0.862	db
4	210414R1_4	200	1.22	NO	33.81	1.000	2.31e6	1.12e6	220	10.2	1.03	db
5	210414R1_5	1500	1.21	NO	33.82	1.000	1.70e7	1.13e6	1610	7.1	1.00	db
6	210414R1_6	50.0	1.21	NO	33.83	1.001	5.45e5	1.14e6	51.2	2.3	0.958	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 0.972549

RRF SD: 0.0818215, Relative SD: 8.4131

Response type: Internal Std (Ref 30), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.22	NO	34.50	1.001	9.59e3	8.62e5	1.14	-8.5	0.890	MM
2	210414R1_2	2.50	1.25	NO	34.52	1.001	2.14e4	9.20e5	2.39	-4.5	0.928	bb
3	210414R1_3	10.0	1.23	NO	34.51	1.000	7.85e4	8.85e5	9.11	-8.9	0.886	bb
4	210414R1_4	200	1.21	NO	34.50	1.000	2.09e6	9.78e5	219	9.7	1.07	bb
5	210414R1_5	1500	1.21	NO	34.51	1.000	1.54e7	9.70e5	1630	8.6	1.06	bb
6	210414R1_6	50.0	1.22	NO	34.52	1.001	4.98e5	9.88e5	51.8	3.7	1.01	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.939556

RRF SD: 0.0783771, Relative SD: 8.34193

Response type: Internal Std (Ref 31), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.15	NO	35.59	1.000	9.36e3	8.35e5	1.19	-4.6	0.896	MM
2	210414R1_2	2.50	1.16	NO	35.61	1.001	1.85e4	8.23e5	2.39	-4.3	0.899	bb
3	210414R1_3	10.0	1.23	NO	35.60	1.000	6.47e4	7.82e5	8.81	-11.9	0.828	bb
4	210414R1_4	200	1.22	NO	35.59	1.000	1.79e6	8.67e5	220	9.9	1.03	bb
5	210414R1_5	1500	1.23	NO	35.60	1.000	1.35e7	8.86e5	1620	7.7	1.01	bb
6	210414R1_6	50.0	1.24	NO	35.61	1.001	4.40e5	9.08e5	51.6	3.2	0.969	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 1.04807

RRF SD: 0.0873368, Relative SD: 8.33314

Response type: Internal Std (Ref 32), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	1.02	NO	37.17	1.000	7.31e3	6.01e5	1.16	-7.1	0.973	MM
2	210414R1_2	2.50	1.03	NO	37.18	1.000	1.79e4	7.19e5	2.37	-5.1	0.995	MM

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	10.0	1.04	NO	37.18	1.001	6.00e4	6.30e5	9.09	-9.1	0.953	bb
4	210414R1_4	200	1.01	NO	37.17	1.001	1.61e6	6.93e5	222	10.9	1.16	bb
5	210414R1_5	1500	1.02	NO	37.18	1.001	1.21e7	7.15e5	1620	8.0	1.13	bb
6	210414R1_6	50.0	1.01	NO	37.18	1.000	3.83e5	7.13e5	51.2	2.4	1.07	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.04534

RRF SD: 0.0878605, Relative SD: 8.40498

Response type: Internal Std (Ref 33), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	1.25	0.92	NO	38.95	1.000	6.49e3	5.32e5	1.17	-6.6	0.976	bb
2	210414R1_2	2.50	1.01	NO	38.98	1.000	1.62e4	6.67e5	2.32	-7.0	0.972	bb
3	210414R1_3	10.0	0.98	NO	38.98	1.001	4.93e4	5.16e5	9.15	-8.5	0.956	bb
4	210414R1_4	200	1.01	NO	38.97	1.000	1.34e6	5.80e5	222	10.8	1.16	bb
5	210414R1_5	1500	1.01	NO	38.98	1.001	1.01e7	6.02e5	1610	7.4	1.12	bb
6	210414R1_6	50.0	1.01	NO	38.98	1.000	3.18e5	5.85e5	52.0	3.9	1.09	bb

Compound name: OCDF

Response Factor: 0.771237

RRF SD: 0.061207, Relative SD: 7.93621

Response type: Internal Std (Ref 34), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	2.50	0.89	NO	41.65	1.000	1.23e4	1.36e6	2.34	-6.2	0.723	MM
2	210414R1_2	5.00	0.88	NO	41.67	1.000	2.75e4	1.47e6	4.85	-3.0	0.748	bb
3	210414R1_3	20.0	0.88	NO	41.67	1.000	8.08e4	1.17e6	17.9	-10.7	0.689	bb
4	210414R1_4	400	0.89	NO	41.65	1.000	2.29e6	1.36e6	438	9.6	0.845	bb
5	210414R1_5	3000	0.89	NO	41.66	1.000	1.76e7	1.42e6	3210	7.0	0.826	bb
6	210414R1_6	100	0.89	NO	41.67	1.000	5.44e5	1.37e6	103	3.3	0.796	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.10397

RRF SD: 0.0930337, Relative SD: 8.42721

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.78	NO	26.91	1.026	1.31e6	1.37e6	86.6	-13.4	0.956	bb
2	210414R1_2	100	0.77	NO	26.93	1.026	1.46e6	1.38e6	95.7	-4.3	1.06	bb
3	210414R1_3	100	0.78	NO	26.93	1.026	1.48e6	1.33e6	101	1.1	1.12	bb
4	210414R1_4	100	0.77	NO	26.91	1.026	1.59e6	1.40e6	103	3.2	1.14	bb
5	210414R1_5	100	0.77	NO	26.91	1.026	1.47e6	1.19e6	112	12.0	1.24	bb
6	210414R1_6	100	0.77	NO	26.93	1.026	1.66e6	1.48e6	101	1.4	1.12	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.863511

RRF SD: 0.0902578, Relative SD: 10.4524

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.64	NO	31.24	1.191	1.03e6	1.37e6	86.8	-13.2	0.749	bb
2	210414R1_2	100	0.63	NO	31.26	1.191	1.16e6	1.38e6	97.3	-2.7	0.840	bb
3	210414R1_3	100	0.62	NO	31.26	1.191	1.11e6	1.33e6	97.3	-2.7	0.840	bb
4	210414R1_4	100	0.63	NO	31.24	1.192	1.24e6	1.40e6	102	2.4	0.884	bb
5	210414R1_5	100	0.63	NO	31.26	1.192	1.22e6	1.19e6	119	18.6	1.02	bb
6	210414R1_6	100	0.62	NO	31.26	1.191	1.25e6	1.48e6	97.6	-2.4	0.843	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.746138

RRF SD: 0.0651061, Relative SD: 8.72575

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	1.28	NO	34.59	1.013	6.55e5	9.77e5	89.8	-10.2	0.670	bd
2	210414R1_2	100	1.28	NO	34.61	1.014	7.11e5	1.01e6	94.8	-5.2	0.707	bd

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

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Compound name: 13C-1,2,3,4,7,8-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	100	1.27	NO	34.60	1.013	7.40e5	1.01e6	98.4	-1.6	0.734	bd
4	210414R1_4	100	1.27	NO	34.59	1.013	8.23e5	1.08e6	102	1.7	0.759	bd
5	210414R1_5	100	1.27	NO	34.60	1.013	8.49e5	9.84e5	116	15.6	0.863	bd
6	210414R1_6	100	1.27	NO	34.61	1.014	8.23e5	1.11e6	99.7	-0.3	0.744	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.846795
 RRF SD: 0.0772663, Relative SD: 9.12455
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	1.29	NO	34.72	1.018	7.49e5	9.77e5	90.5	-9.5	0.766	db
2	210414R1_2	100	1.26	NO	34.73	1.018	8.03e5	1.01e6	94.3	-5.7	0.799	db
3	210414R1_3	100	1.26	NO	34.73	1.018	8.25e5	1.01e6	96.6	-3.4	0.818	db
4	210414R1_4	100	1.25	NO	34.72	1.018	9.47e5	1.08e6	103	3.1	0.873	db
5	210414R1_5	100	1.26	NO	34.73	1.018	9.70e5	9.84e5	116	16.5	0.986	db
6	210414R1_6	100	1.25	NO	34.73	1.018	9.27e5	1.11e6	99.0	-1.0	0.839	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.868278
 RRF SD: 0.0751126, Relative SD: 8.65075
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	1.26	NO	35.02	1.026	7.49e5	9.77e5	88.3	-11.7	0.767	MM
2	210414R1_2	100	1.26	NO	35.03	1.026	8.90e5	1.01e6	102	2.0	0.886	bb
3	210414R1_3	100	1.27	NO	35.03	1.026	8.45e5	1.01e6	96.4	-3.6	0.837	bb
4	210414R1_4	100	1.25	NO	35.01	1.026	9.50e5	1.08e6	101	0.8	0.876	bb
5	210414R1_5	100	1.24	NO	35.02	1.026	9.79e5	9.84e5	115	14.6	0.995	bb
6	210414R1_6	100	1.25	NO	35.03	1.026	9.39e5	1.11e6	97.8	-2.2	0.849	bb

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Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

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Compound name: 13C-1,2,3,4,6,7,8-HpCDD

Response Factor: 0.664147

RRF SD: 0.0670773, Relative SD: 10.0998

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	1.04	NO	38.28	1.122	6.08e5	9.77e5	93.7	-6.3	0.622	MM
2	210414R1_2	100	1.05	NO	38.29	1.122	7.70e5	1.01e6	115	15.4	0.766	bb
3	210414R1_3	100	1.06	NO	38.29	1.122	6.13e5	1.01e6	91.5	-8.5	0.608	bb
4	210414R1_4	100	1.05	NO	38.28	1.122	6.81e5	1.08e6	94.5	-5.5	0.628	bb
5	210414R1_5	100	1.04	NO	38.29	1.122	7.20e5	9.84e5	110	10.2	0.732	bb
6	210414R1_6	100	1.04	NO	38.29	1.122	6.96e5	1.11e6	94.7	-5.3	0.629	bb

Compound name: 13C-OCDD

Response Factor: 0.560713

RRF SD: 0.0533804, Relative SD: 9.52008

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	200	0.92	NO	41.30	1.210	1.09e6	9.77e5	199	-0.5	0.558	MM
2	210414R1_2	200	0.89	NO	41.32	1.211	1.27e6	1.01e6	226	12.9	0.633	bb
3	210414R1_3	200	0.89	NO	41.31	1.210	1.01e6	1.01e6	179	-10.7	0.501	bb
4	210414R1_4	200	0.88	NO	41.30	1.210	1.15e6	1.08e6	189	-5.7	0.529	bb
5	210414R1_5	200	0.88	NO	41.31	1.210	1.21e6	9.84e5	220	10.1	0.617	bb
6	210414R1_6	200	0.89	NO	41.31	1.210	1.16e6	1.11e6	188	-6.1	0.527	bb

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.09311

RRF SD: 0.0632342, Relative SD: 5.78481

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.77	NO	26.32	1.003	2.17e6	1.78e6	111	11.3	1.22	bb
2	210414R1_2	100	0.77	NO	26.34	1.004	2.13e6	2.00e6	97.6	-2.4	1.07	bb

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	100	0.77	NO	26.32	1.003	2.00e6	1.90e6	96.1	-3.9	1.05	bb
4	210414R1_4	100	0.76	NO	26.31	1.003	2.14e6	2.03e6	96.5	-3.5	1.06	bb
5	210414R1_5	100	0.78	NO	26.32	1.004	1.93e6	1.76e6	101	0.7	1.10	bb
6	210414R1_6	100	0.77	NO	26.32	1.003	2.27e6	2.12e6	97.8	-2.2	1.07	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.809493

RRF SD: 0.0523734, Relative SD: 6.4699

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	1.57	NO	30.08	1.147	1.36e6	1.78e6	94.2	-5.8	0.763	bb
2	210414R1_2	100	1.59	NO	30.10	1.147	1.58e6	2.00e6	97.4	-2.6	0.788	bb
3	210414R1_3	100	1.55	NO	30.10	1.147	1.49e6	1.90e6	96.6	-3.4	0.782	bb
4	210414R1_4	100	1.55	NO	30.08	1.147	1.64e6	2.03e6	99.7	-0.3	0.807	bb
5	210414R1_5	100	1.58	NO	30.10	1.148	1.60e6	1.76e6	113	12.5	0.911	bb
6	210414R1_6	100	1.56	NO	30.10	1.147	1.71e6	2.12e6	99.6	-0.4	0.806	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.803072

RRF SD: 0.0359789, Relative SD: 4.48016

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	1.59	NO	31.08	1.185	1.46e6	1.78e6	102	2.0	0.819	bb
2	210414R1_2	100	1.59	NO	31.09	1.185	1.61e6	2.00e6	100	0.2	0.804	bb
3	210414R1_3	100	1.55	NO	31.09	1.185	1.48e6	1.90e6	96.6	-3.4	0.776	bb
4	210414R1_4	100	1.58	NO	31.08	1.185	1.58e6	2.03e6	96.9	-3.1	0.778	bb
5	210414R1_5	100	1.57	NO	31.08	1.185	1.52e6	1.76e6	108	7.9	0.867	bb
6	210414R1_6	100	1.55	NO	31.09	1.185	1.64e6	2.12e6	96.5	-3.5	0.775	bb

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.01114

RRF SD: 0.0571822, Relative SD: 5.65524

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.51	NO	33.65	0.986	1.06e6	9.77e5	108	7.5	1.09	bd
2	210414R1_2	100	0.52	NO	33.67	0.986	1.06e6	1.01e6	105	4.7	1.06	bd
3	210414R1_3	100	0.51	NO	33.67	0.986	9.58e5	1.01e6	93.9	-6.1	0.950	bd
4	210414R1_4	100	0.51	NO	33.65	0.986	1.05e6	1.08e6	95.9	-4.1	0.970	bd
5	210414R1_5	100	0.51	NO	33.67	0.986	1.02e6	9.84e5	103	2.6	1.04	bd
6	210414R1_6	100	0.51	NO	33.68	0.987	1.07e6	1.11e6	95.4	-4.6	0.964	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.07338

RRF SD: 0.0605245, Relative SD: 5.63869

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.52	NO	33.79	0.990	1.11e6	9.77e5	106	5.8	1.14	db
2	210414R1_2	100	0.52	NO	33.81	0.990	1.10e6	1.01e6	102	2.1	1.10	dd
3	210414R1_3	100	0.51	NO	33.81	0.990	1.01e6	1.01e6	93.4	-6.6	1.00	db
4	210414R1_4	100	0.51	NO	33.80	0.990	1.12e6	1.08e6	96.1	-3.9	1.03	db
5	210414R1_5	100	0.51	NO	33.81	0.990	1.13e6	9.84e5	107	6.8	1.15	db
6	210414R1_6	100	0.52	NO	33.81	0.990	1.14e6	1.11e6	95.8	-4.2	1.03	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 0.909508

RRF SD: 0.0399449, Relative SD: 4.39192

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.51	NO	34.48	1.010	8.62e5	9.77e5	97.0	-3.0	0.882	bb
2	210414R1_2	100	0.51	NO	34.50	1.011	9.20e5	1.01e6	101	0.6	0.915	bb

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Compound name: 13C-2,3,4,6,7,8-HxCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	100	0.51	NO	34.50	1.011	8.85e5	1.01e6	96.5	-3.5	0.878	bb
4	210414R1_4	100	0.51	NO	34.49	1.011	9.78e5	1.08e6	99.2	-0.8	0.902	bb
5	210414R1_5	100	0.51	NO	34.50	1.011	9.70e5	9.84e5	108	8.4	0.986	bb
6	210414R1_6	100	0.51	NO	34.50	1.011	9.88e5	1.11e6	98.2	-1.8	0.894	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.828495

RRF SD: 0.0441817, Relative SD: 5.33276

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.51	NO	35.58	1.043	8.35e5	9.77e5	103	3.1	0.855	bd
2	210414R1_2	100	0.50	NO	35.59	1.043	8.23e5	1.01e6	98.8	-1.2	0.819	bb
3	210414R1_3	100	0.50	NO	35.59	1.043	7.82e5	1.01e6	93.6	-6.4	0.775	bb
4	210414R1_4	100	0.51	NO	35.58	1.043	8.67e5	1.08e6	96.5	-3.5	0.800	bb
5	210414R1_5	100	0.51	NO	35.59	1.043	8.86e5	9.84e5	109	8.8	0.901	bb
6	210414R1_6	100	0.50	NO	35.59	1.043	9.08e5	1.11e6	99.1	-0.9	0.821	bb

Compound name: 13C-1,2,3,4,6,7,8-HpCDF

Response Factor: 0.660927

RRF SD: 0.0478014, Relative SD: 7.23248

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.43	NO	37.16	1.089	6.01e5	9.77e5	93.0	-7.0	0.615	bb
2	210414R1_2	100	0.43	NO	37.17	1.089	7.19e5	1.01e6	108	8.2	0.715	bb
3	210414R1_3	100	0.44	NO	37.16	1.089	6.30e5	1.01e6	94.5	-5.5	0.624	bb
4	210414R1_4	100	0.44	NO	37.15	1.089	6.93e5	1.08e6	96.8	-3.2	0.639	bb
5	210414R1_5	100	0.44	NO	37.16	1.089	7.15e5	9.84e5	110	10.0	0.727	bb
6	210414R1_6	100	0.43	NO	37.17	1.089	7.13e5	1.11e6	97.6	-2.4	0.645	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.565796
 RRF SD: 0.0589126, Relative SD: 10.4123
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.44	NO	38.95	1.141	5.32e5	9.77e5	96.2	-3.8	0.544	bb
2	210414R1_2	100	0.44	NO	38.97	1.141	6.67e5	1.01e6	117	17.2	0.663	bb
3	210414R1_3	100	0.43	NO	38.95	1.141	5.16e5	1.01e6	90.4	-9.6	0.511	bb
4	210414R1_4	100	0.43	NO	38.95	1.141	5.80e5	1.08e6	94.5	-5.5	0.535	bb
5	210414R1_5	100	0.44	NO	38.95	1.141	6.02e5	9.84e5	108	8.2	0.612	bd
6	210414R1_6	100	0.43	NO	38.97	1.141	5.85e5	1.11e6	93.5	-6.5	0.529	bb

Compound name: 13C-OCDF

Response Factor: 0.662528
 RRF SD: 0.0621617, Relative SD: 9.3825
 Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	200	0.90	NO	41.64	1.220	1.36e6	9.77e5	210	5.2	0.697	bb
2	210414R1_2	200	0.88	NO	41.66	1.220	1.47e6	1.01e6	221	10.5	0.732	bb
3	210414R1_3	200	0.89	NO	41.66	1.220	1.17e6	1.01e6	176	-12.2	0.582	bb
4	210414R1_4	200	0.88	NO	41.64	1.220	1.36e6	1.08e6	189	-5.6	0.625	bb
5	210414R1_5	200	0.88	NO	41.65	1.220	1.42e6	9.84e5	218	8.8	0.721	bb
6	210414R1_6	200	0.89	NO	41.65	1.220	1.37e6	1.11e6	187	-6.7	0.618	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 2.06778
 RRF SD: 0.220438, Relative SD: 10.6606
 Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)
 Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	0.250			26.93	1.026	6.11e3	1.37e6	0.215	-13.8	1.78	bb
2	210414R1_2	0.500			26.96	1.028	1.53e4	1.38e6	0.535	6.9	2.21	bb

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Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	210414R1_3	2.00			26.94	1.027	4.90e4	1.33e6	1.79	-10.6	1.85	bb
4	210414R1_4	40.0			26.93	1.027	1.19e6	1.40e6	41.2	2.9	2.13	bb
5	210414R1_5	200			26.94	1.028	5.63e6	1.19e6	229	14.4	2.37	bb
6	210414R1_6	10.0			26.94	1.027	3.06e5	1.48e6	10.0	0.1	2.07	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 36), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.78	NO	26.23	1.000	1.37e6	1.37e6	100	0.0	1.00	bb
2	210414R1_2	100	0.78	NO	26.23	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
3	210414R1_3	100	0.78	NO	26.23	1.000	1.33e6	1.33e6	100	0.0	1.00	bb
4	210414R1_4	100	0.78	NO	26.22	1.000	1.40e6	1.40e6	100	0.0	1.00	bb
5	210414R1_5	100	0.77	NO	26.22	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
6	210414R1_6	100	0.78	NO	26.23	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 37), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.79	NO	24.93	1.000	1.78e6	1.78e6	100	0.0	1.00	bb
2	210414R1_2	100	0.79	NO	24.95	1.000	2.00e6	2.00e6	100	0.0	1.00	bb
3	210414R1_3	100	0.78	NO	24.95	1.000	1.90e6	1.90e6	100	0.0	1.00	bb
4	210414R1_4	100	0.78	NO	24.93	1.000	2.03e6	2.03e6	100	0.0	1.00	bb
5	210414R1_5	100	0.78	NO	24.93	1.000	1.76e6	1.76e6	100	0.0	1.00	bb
6	210414R1_6	100	0.78	NO	24.95	1.000	2.12e6	2.12e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CRV.qld

Last Altered: Thursday, April 15, 2021 09:26:26 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:31:17 Pacific Daylight Time

Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	210414R1_1	100	0.51	NO	34.13	1.000	9.77e5	9.77e5	100	0.0	1.00	bb
2	210414R1_2	100	0.51	NO	34.14	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
3	210414R1_3	100	0.51	NO	34.14	1.000	1.01e6	1.01e6	100	0.0	1.00	bb
4	210414R1_4	100	0.51	NO	34.13	1.000	1.08e6	1.08e6	100	0.0	1.00	bb
5	210414R1_5	100	0.51	NO	34.14	1.000	9.84e5	9.84e5	100	0.0	1.00	bb
6	210414R1_6	100	0.51	NO	34.14	1.000	1.11e6	1.11e6	100	0.0	1.00	bb

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, April 15, 2021 10:22:19 Pacific Daylight Time

Printed: Thursday, April 15, 2021 10:22:49 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-06-21.mdb 06 Apr 2021 08:35:23

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

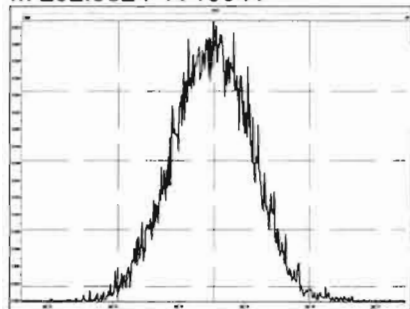
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	210414R1_1	ST210414R1-1 1613 CS0 21D0706	14-Apr-21	09:44:53
2	210414R1_2	ST210414R1-2 1613 CS1 21D0707	14-Apr-21	10:37:34
3	210414R1_3	ST210414R1-3 1613 CS2 21C0104	14-Apr-21	11:26:41
4	210414R1_4	ST210414R1-4 1613 CS4 21C0106	14-Apr-21	12:13:44
5	210414R1_5	ST210414R1-5 1613 CS5 21C0107	14-Apr-21	12:59:55
6	210414R1_6	ST210414R1-6 1613 CS3 21C0105	14-Apr-21	13:46:07
7	210414R1_7	SS210414R1-1 1613 SSS 21C0108	14-Apr-21	14:34:13

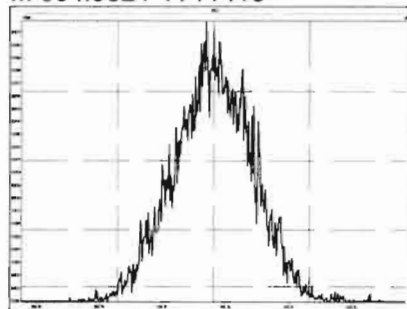
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, April 14, 2021 09:36:46 Pacific Daylight Time

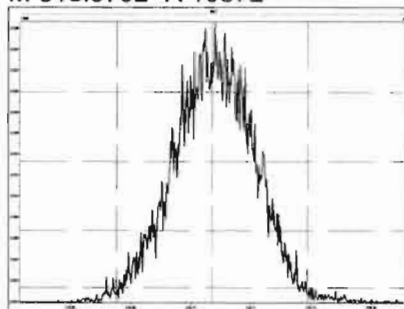
M 292.9824 R 10641



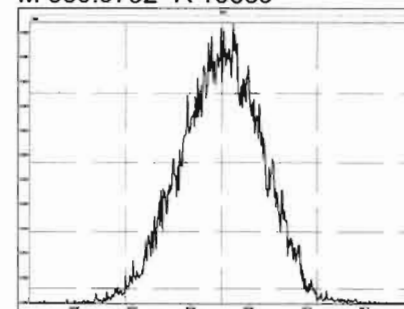
M 304.9824 R 11415



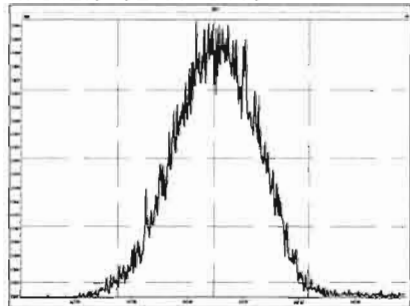
M 318.9792 R 10872



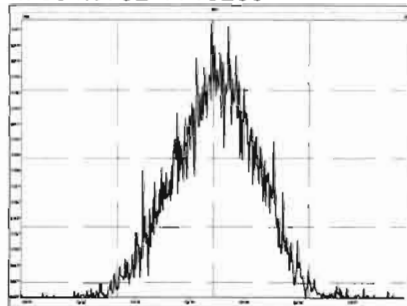
M 330.9792 R 10639



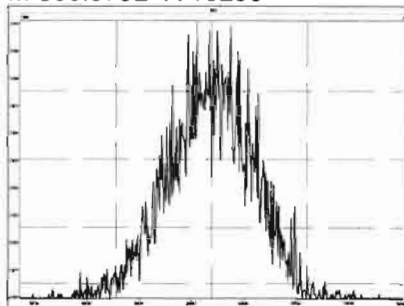
M 342.9792 R 10419



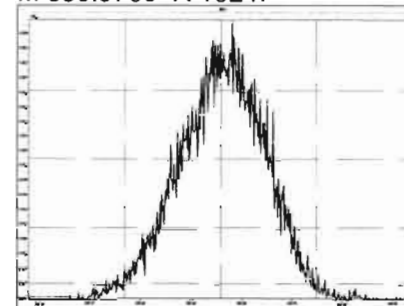
M 354.9792 R 10288



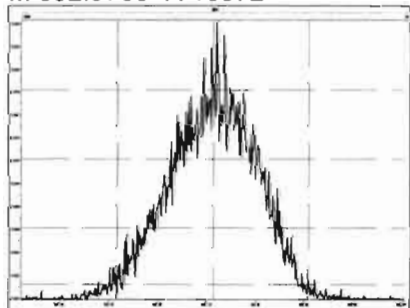
M 366.9792 R 10286



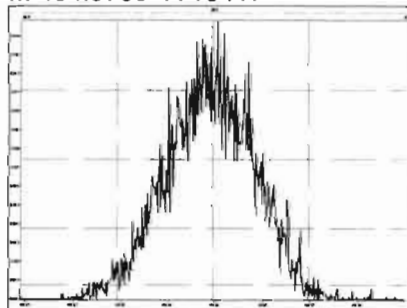
M 380.9760 R 10247



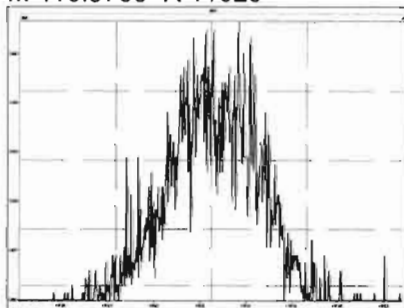
M 392.9760 R 10372



M 404.9760 R 10417



M 416.9760 R 11626



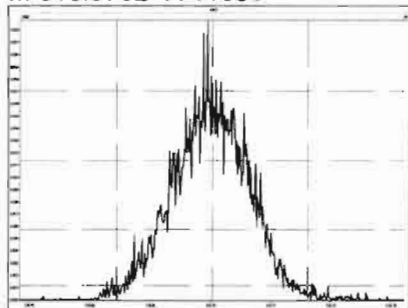
Experiment Calibration Report

MassLynx 4.1 SCN815

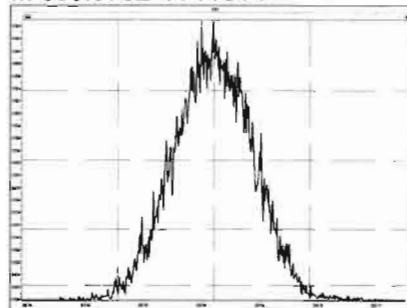
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, April 14, 2021 09:38:24 Pacific Daylight Time

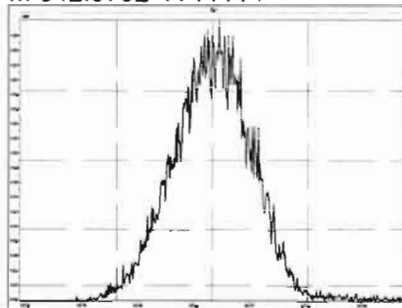
M 318.9792 R 11680



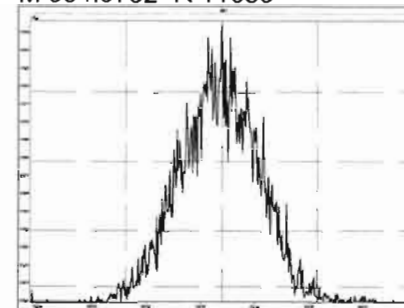
M 330.9792 R 11014



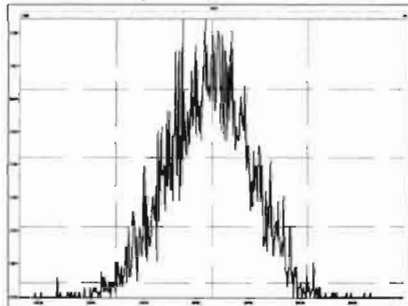
M 342.9792 R 11114



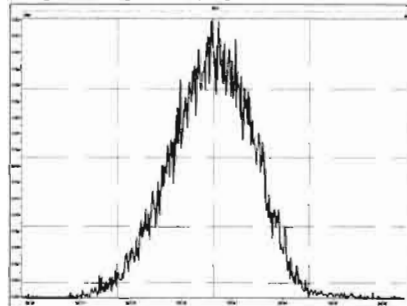
M 354.9792 R 11683



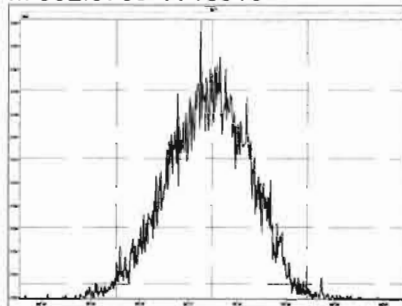
M 366.9792 R 10778



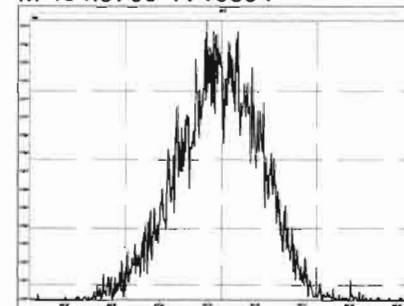
M 380.9760 R 10374



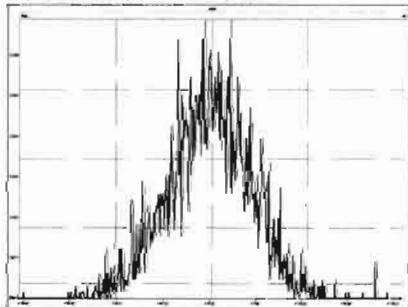
M 392.9760 R 10916



M 404.9760 R 10594



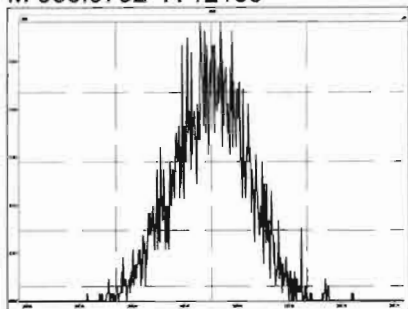
M 416.9760 R 11847



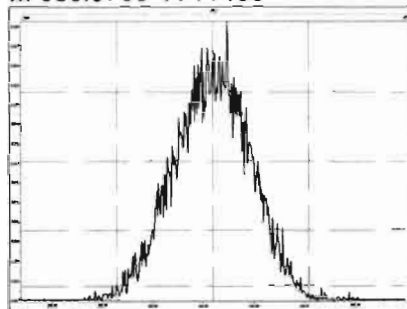
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Printed: Wednesday, April 14, 2021 09:39:36 Pacific Daylight Time

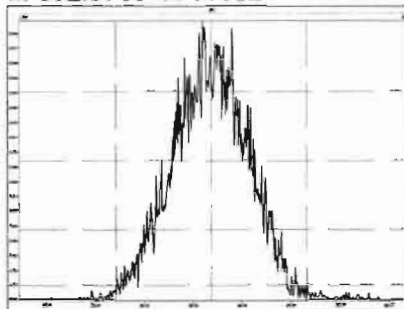
M 366.9792 R 12136



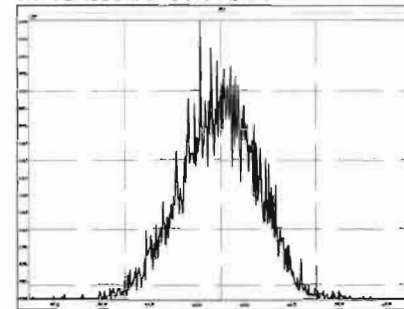
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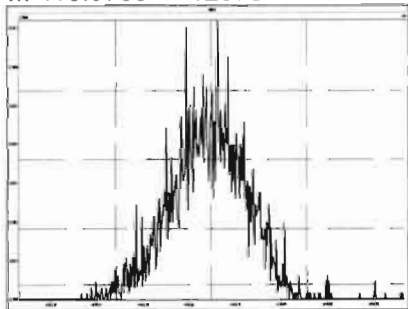
M 392.9760 R 11682



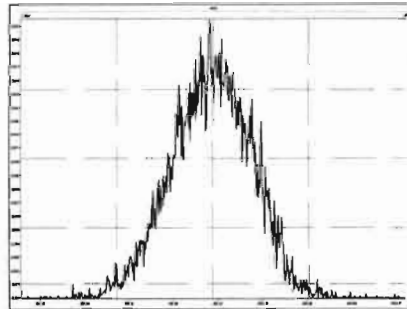
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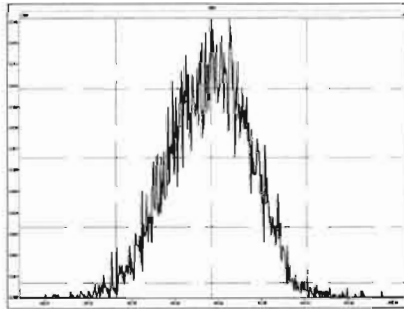
M 416.9760 R 12078



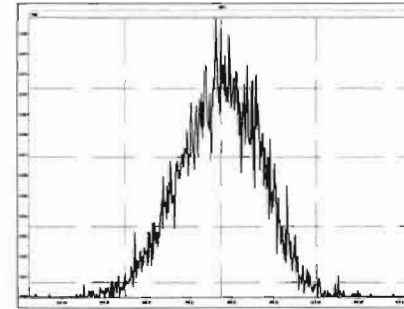
M 430.9728 R 11159



M 442.9728 R 10870



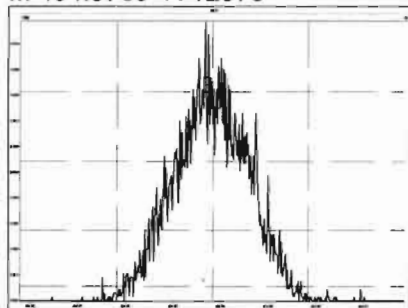
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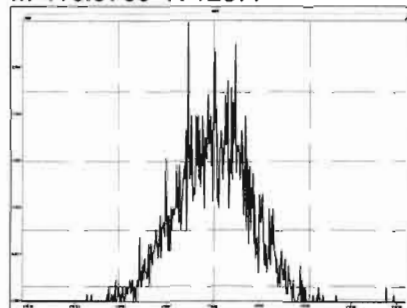
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Printed: Wednesday, April 14, 2021 09:40:37 Pacific Daylight Time

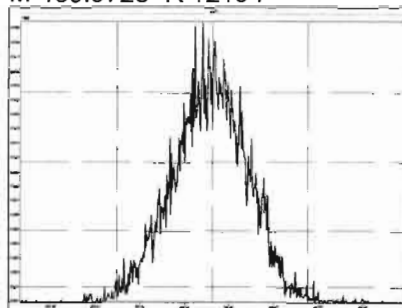
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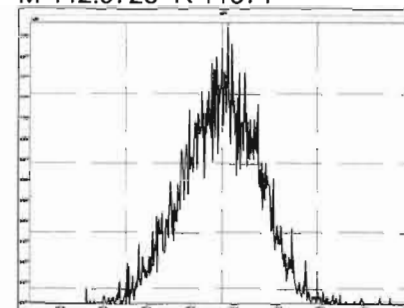
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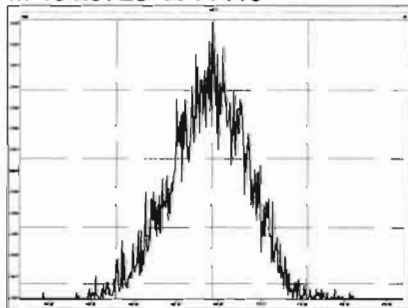
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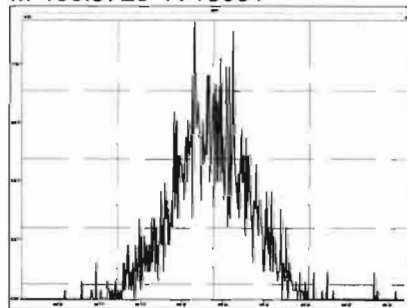
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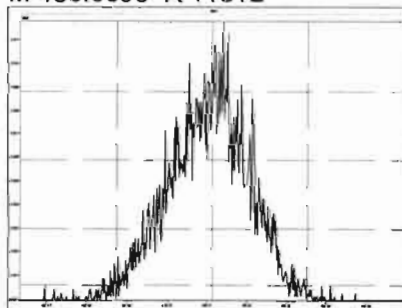
M 454.9728 R 11415



M 466.9728 R 13091



M 480.9696 R 11312



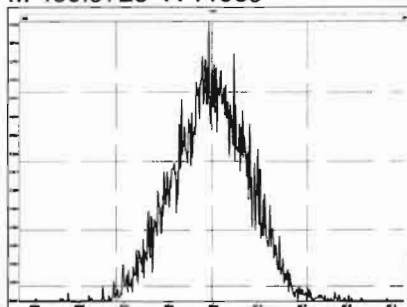
Experiment Calibration Report

MassLynx 4.1 SCN815

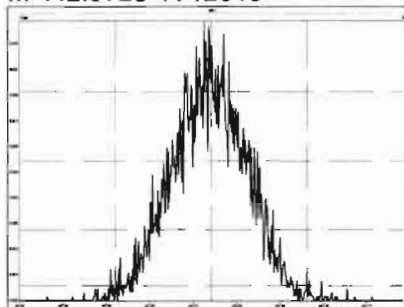
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Printed: Wednesday, April 14, 2021 09:41:44 Pacific Daylight Time

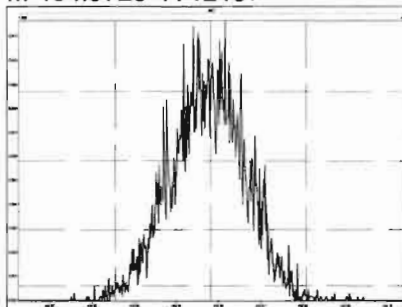
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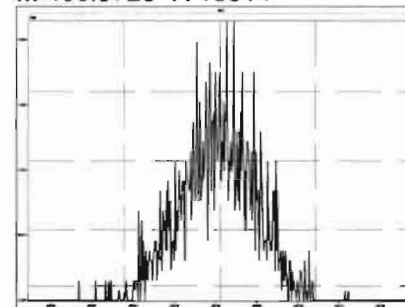
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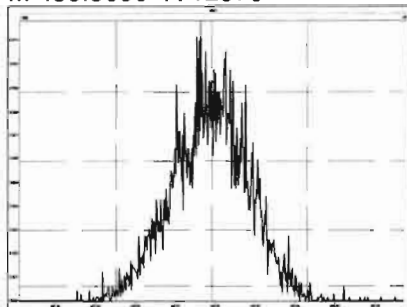
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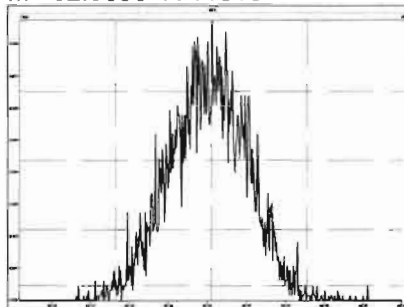
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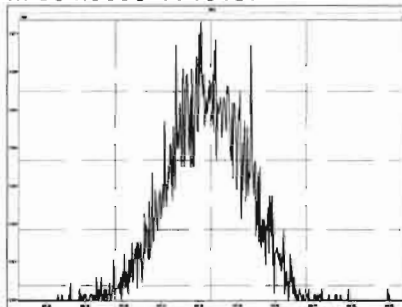
M 480.9696 R 12076



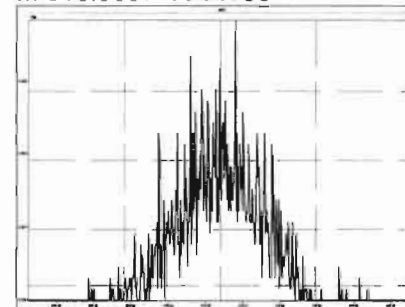
M 492.9696 R 11518



M 504.9696 R 13157



M 516.9697 R 14798



Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CPSM.qld

Last Altered: Thursday, April 15, 2021 09:55:18 Pacific Daylight Time

Printed: Thursday, April 15, 2021 09:55:55 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Apr 2021 16:19:34

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210414R1_6, Date: 14-Apr-2021, Time: 13:46:07, ID: ST210414R1-6 1613 CS3 21C0105, Description: 1613 CS3 21C0105

#	Name	RT
1	1 1,3,6,8-TCDD (First)	23.62
2	2 1,2,8,9-TCDD (Last)	27.76
3	3 1,2,4,7,9-PeCDD (First)	29.13
4	4 1,2,3,8,9-PeCDD (Last)	31.62
5	5 1,2,4,6,7,9-HxCDD (First)	32.89
6	6 1,2,3,7,8,9-HxCDD (Last)	35.05
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.47
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.31
9	9 1,3,6,8-TCDF (First)	21.61
10	10 1,2,8,9-TCDF (Last)	28.07
11	11 1,3,4,6,8-PeCDF (First)	27.62
12	12 1,2,3,8,9-PeCDF (Last)	31.98
13	13 1,2,3,4,6,8-HxCDF (First)	32.36
14	14 1,2,3,7,8,9-HxCDF (Last)	35.61
15	15 1,2,3,4,6,7,8-HpCDF (First)	37.18
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.98

Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CPSM.qld

Last Altered: Thursday, April 15, 2021 09:55:18 Pacific Daylight Time

Printed: Thursday, April 15, 2021 09:55:55 Pacific Daylight Time

FIN 04/15/21

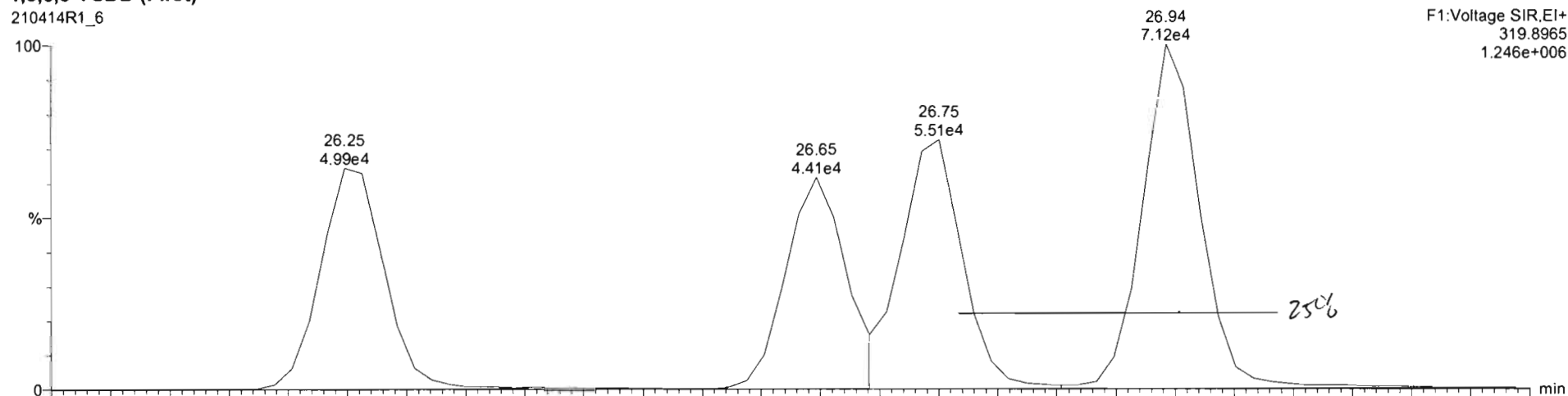
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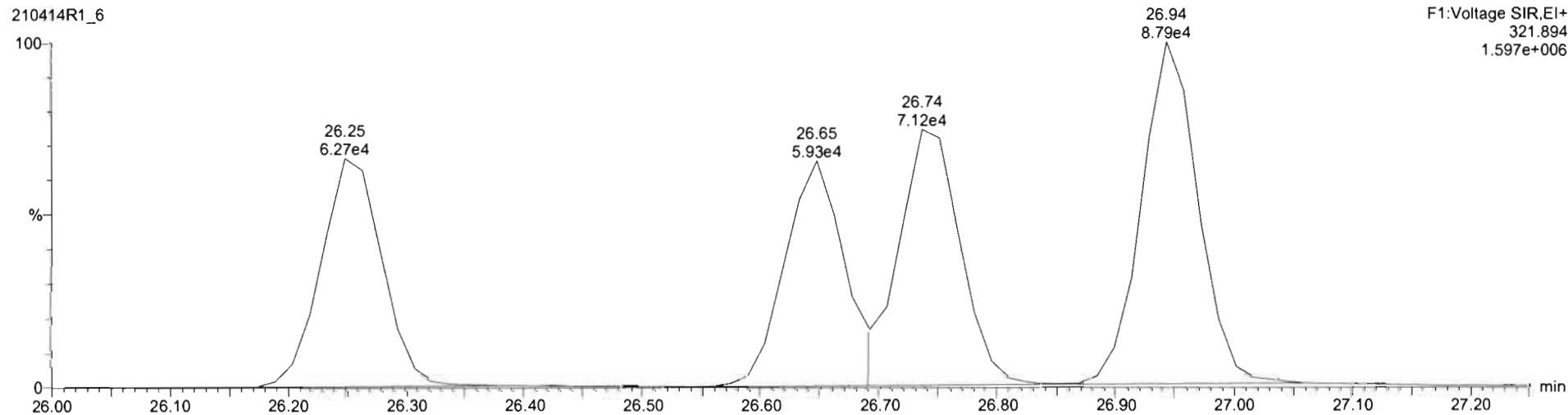
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1,3,6,8-TCDD (First)

210414R1_6



210414R1_6



Dataset: U:\VG12.PRO\Results\210414R1\210414R1_CPSM.qld

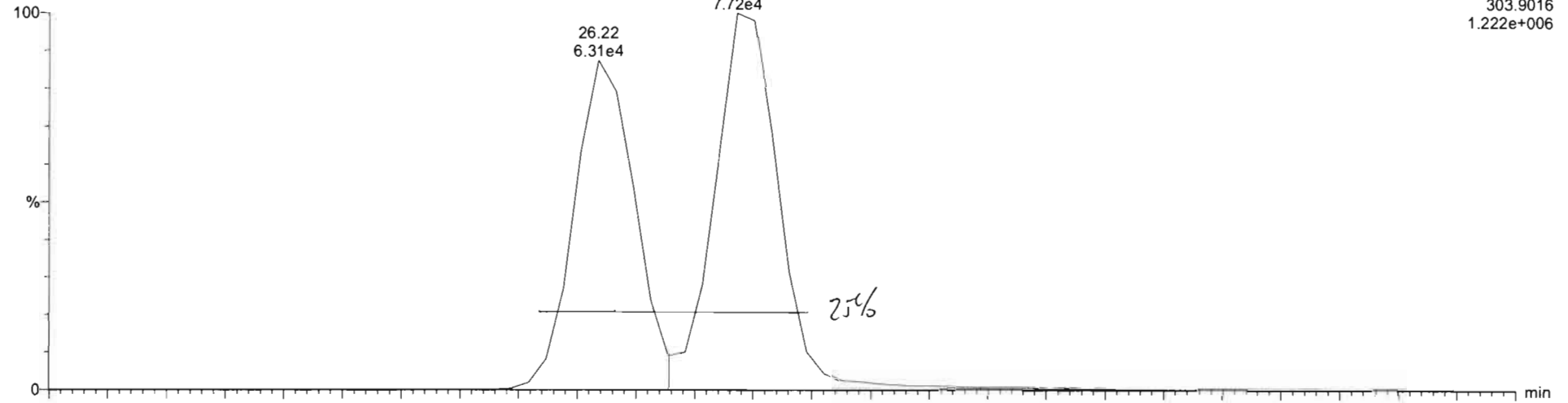
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Printed: Thursday, April 15, 2021 09:55:55 Pacific Daylight Time

FIN 04/15/21

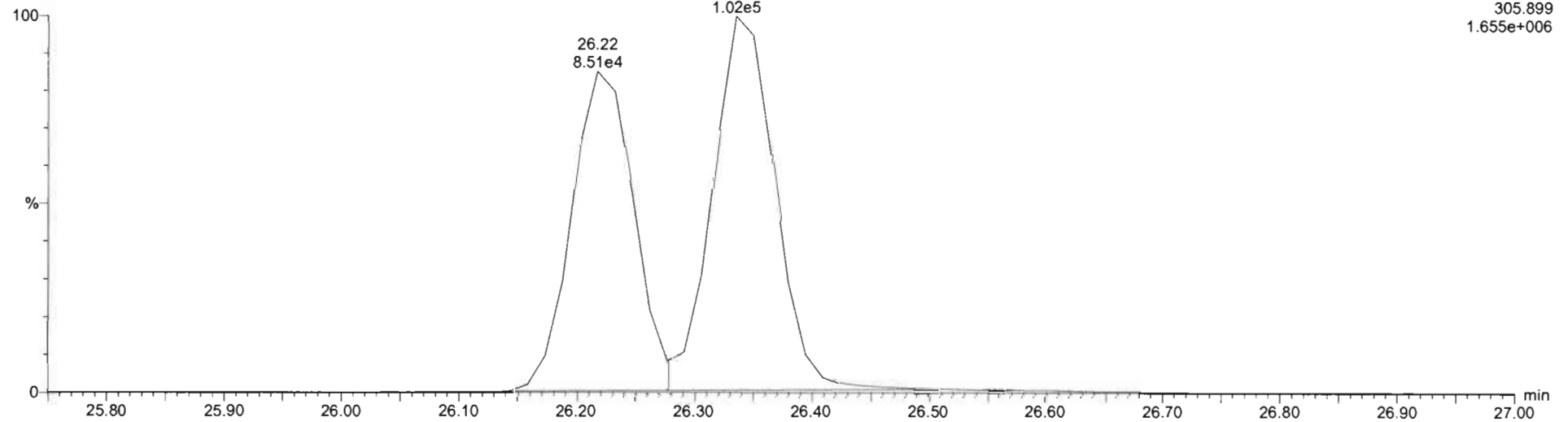
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1,3,6,8-TCDF (First)

210414R1_6



210414R1_6



Dataset: Untitled

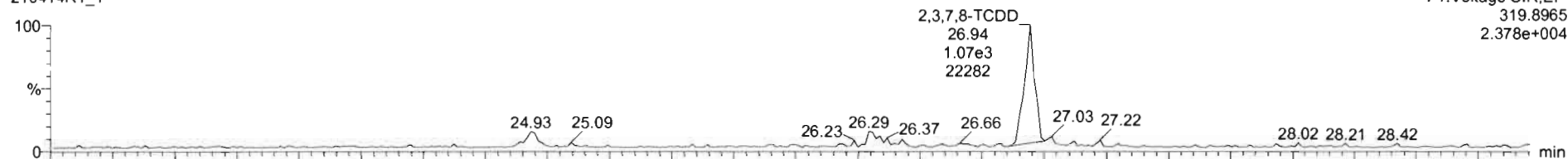
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-06-21.mdb 06 Apr 2021 08:35:23
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 14 Apr 2021 14:49:28

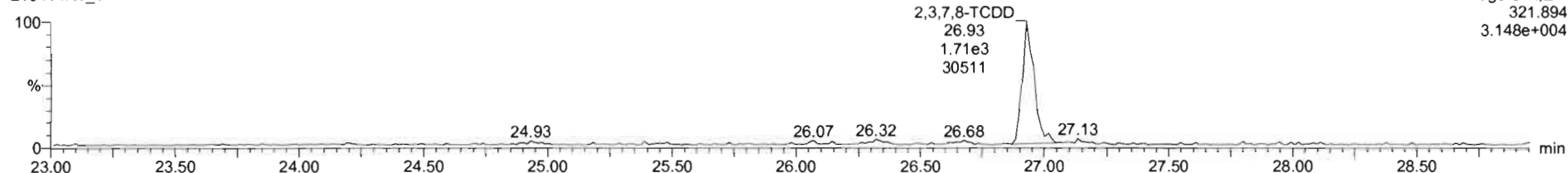
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2,3,7,8-TCDD

210414R1_1

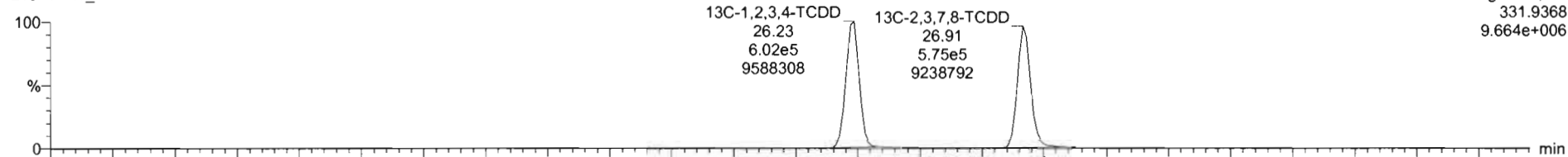


210414R1_1

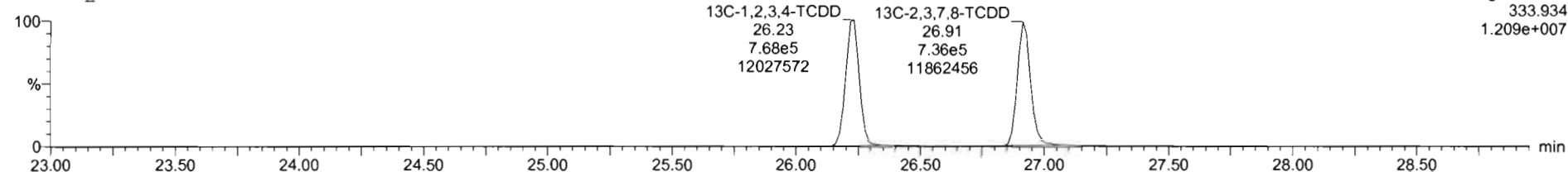


13C-2,3,7,8-TCDD

210414R1_1



210414R1_1

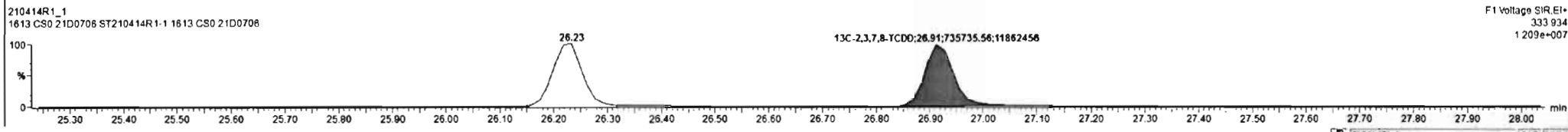
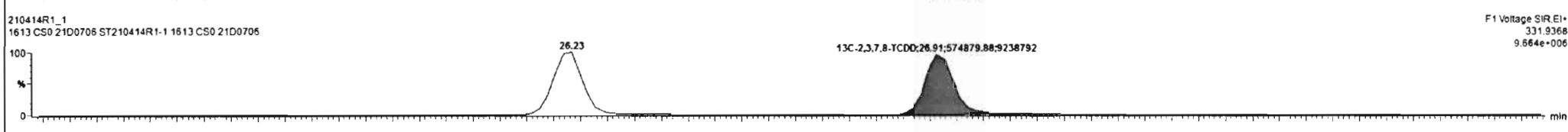
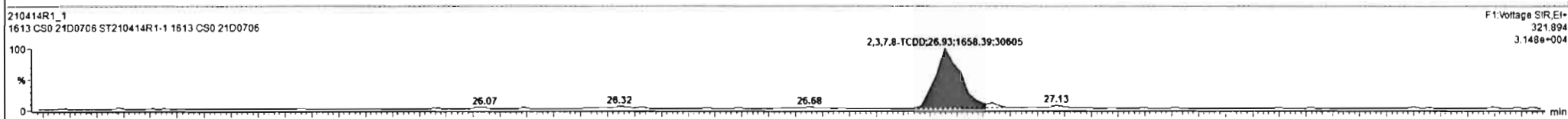
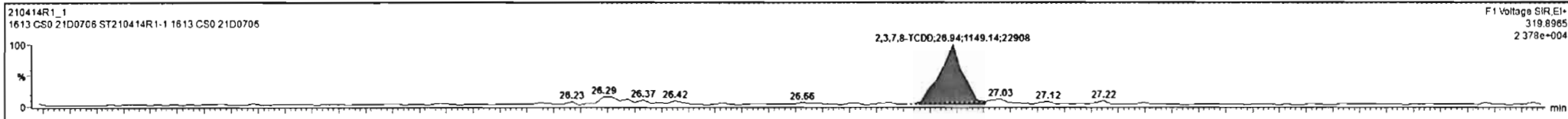


TargetLynx - 210414R1_CRV.qtd - Chromatogram

File Edit View Display Processing Window Help

210414R1_1 - ST210414R1-1 1613 CS0 21D0706 - 1613 CS0 21D0706

#	RT	Name	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	26.94	2,3,7,8-TCDD	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	31.27	1,2,3,7,8-PeCDD	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	34.61	1,2,3,4,7,8-HxCDD	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	34.73	1,2,3,6,7,8-HxCDD	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	35.03	1,2,3,7,8,9-HxCDD	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.96	0.874	0.0774
6	38.31	1,2,3,4,6,7,8-HpCDD	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	41.31	OCDD	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	26.35	2,3,7,8-TCDF	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	30.10	1,2,3,7,8-PeCDF	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	31.09	1,2,3,4,7,8-PeCDF	1.483	NO	1.8882e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	33.67	1,2,3,4,7,8-HxCDF	1.172	NO	1.1296e4	1.0627e6	1.250	-7.5	8.29	0.920	0.0762
12	33.81	1,2,3,6,7,8-HxCDF	1.248	NO	1.1920e4	1.1097e6	1.250	-8.3	7.74	0.937	0.0725
13	34.50	1,2,3,4,6,7,8-HpCDF	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818
14	35.59	1,2,3,7,8,9-HxCDF	1.155	NO	9.3601e3	8.3529e5	1.250	-4.6	8.34	0.940	0.0784
15	37.17	1,2,3,4,6,7,8-HpCDF	1.018	NO	7.3127e3	6.0094e5	1.250	-7.1	8.33	1.05	0.0873
16	38.95	1,2,3,4,7,8,9-HpCDF	0.919	NO	6.4893e3	5.3180e5	1.250	-6.6	8.40	1.05	0.0879
17	41.65	OCDF	0.893	NO	1.2322e4	1.3632e6	2.500	-6.2	7.94	0.771	0.0612



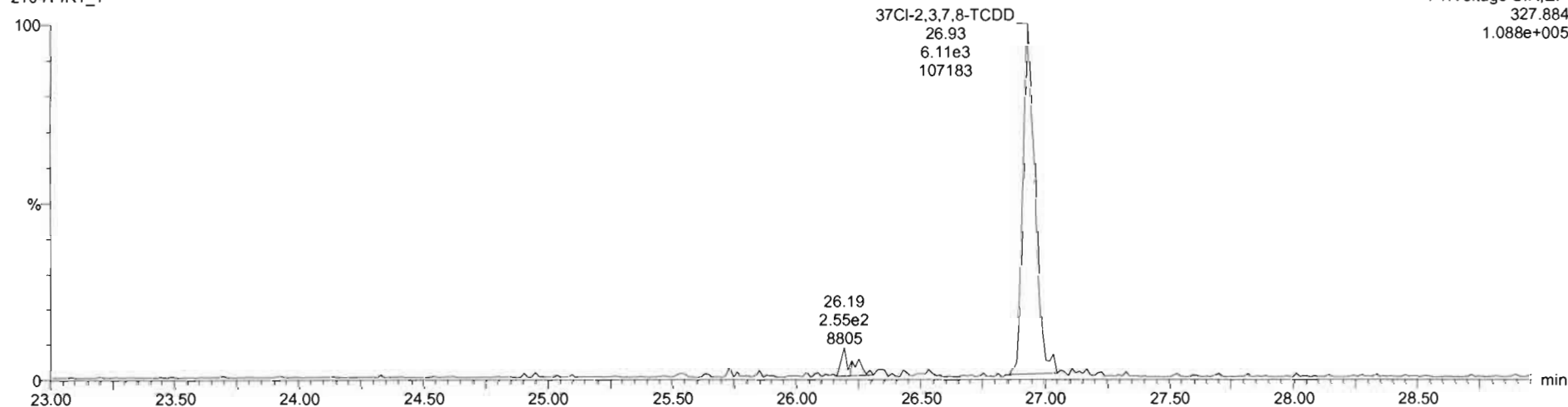
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

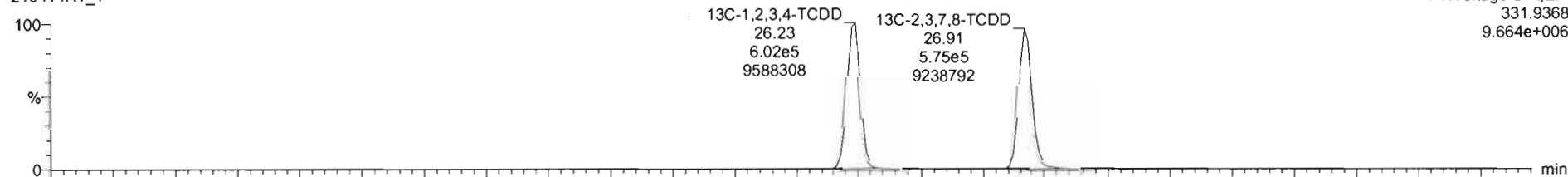
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210414R1_1

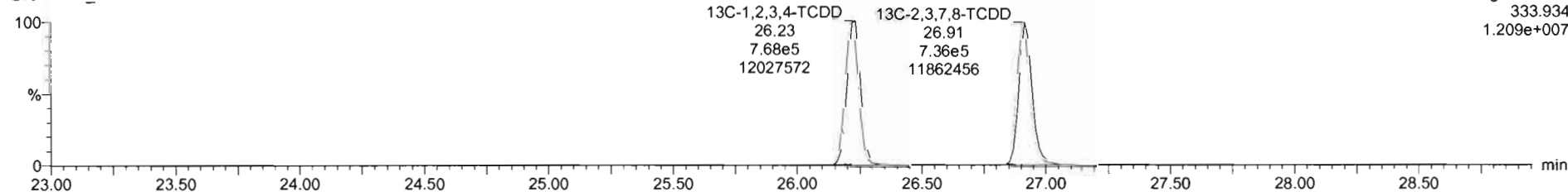


13C-1,2,3,4-TCDD

210414R1_1



210414R1_1



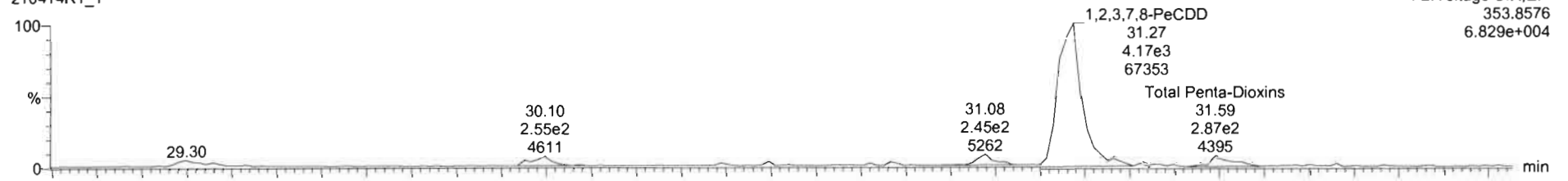
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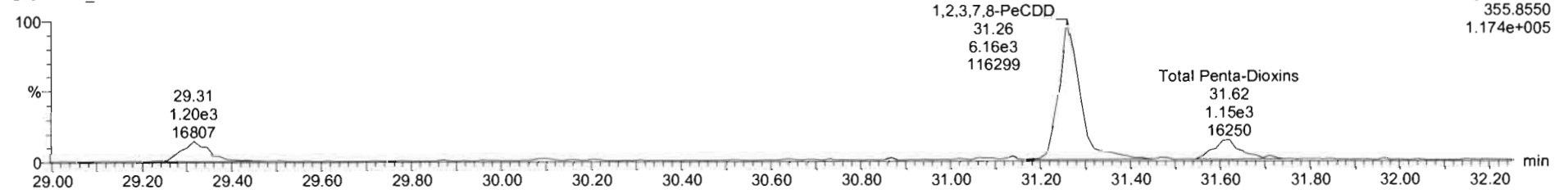
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1,2,3,7,8-PeCDD

210414R1_1

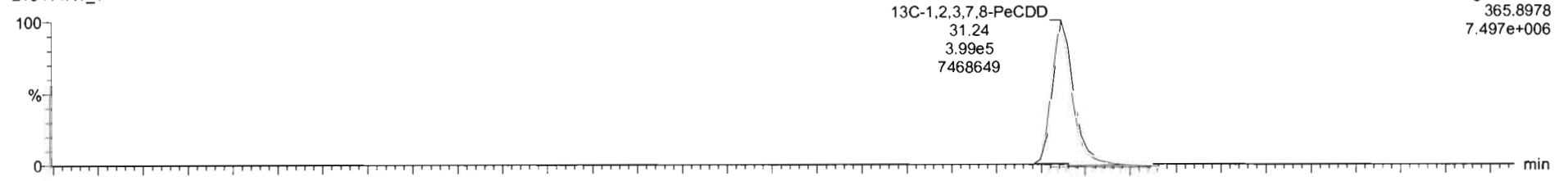


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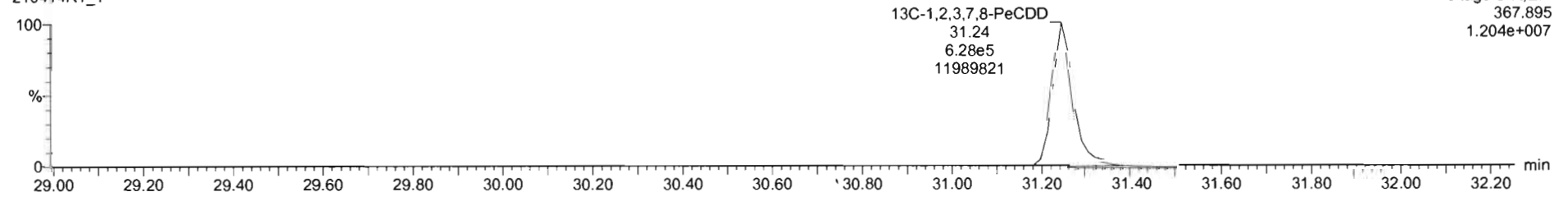


13C-1,2,3,7,8-PeCDD

210414R1_1



210414R1_1



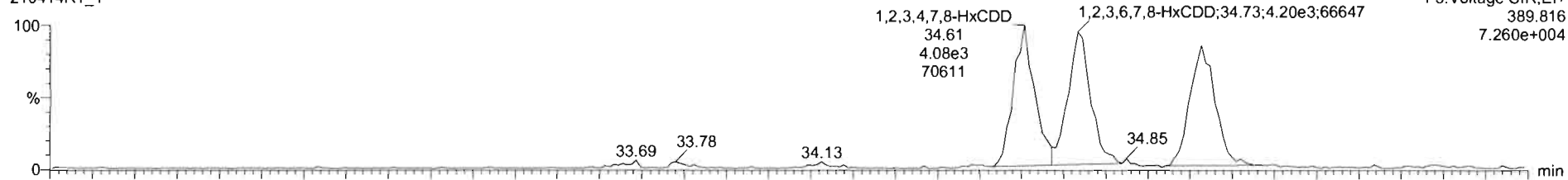
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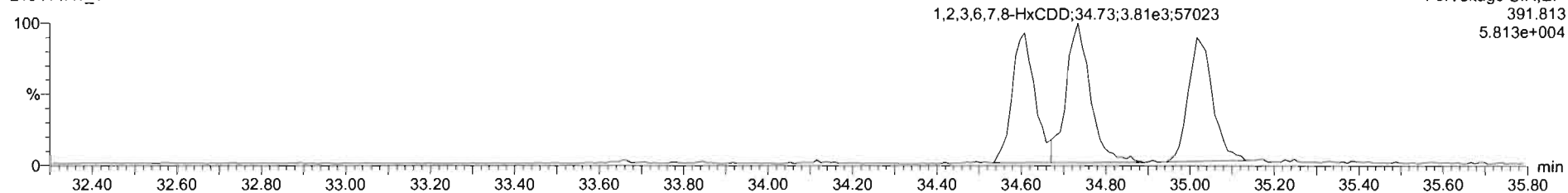
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1,2,3,4,7,8-HxCDD

210414R1_1

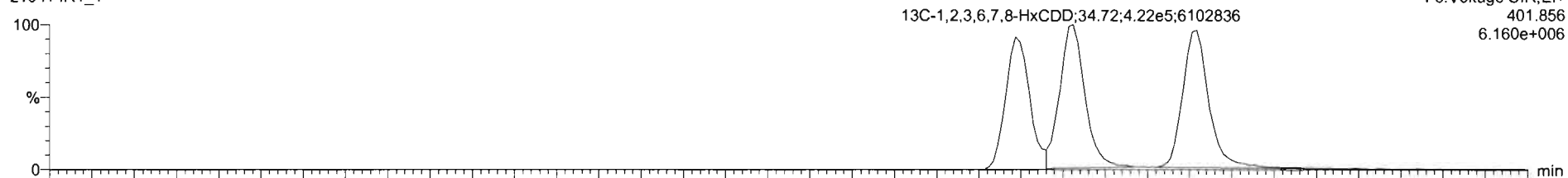


210414R1_1

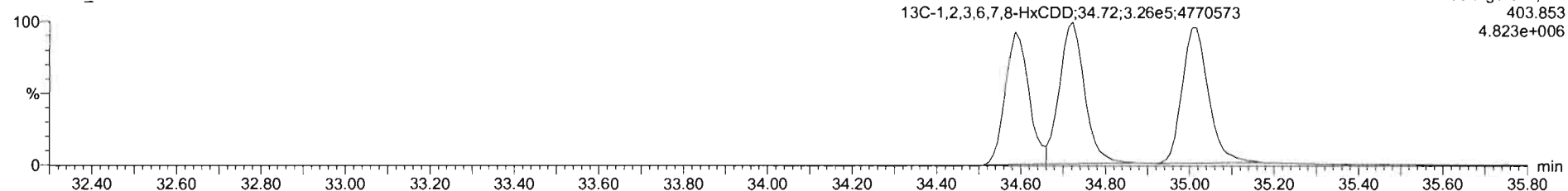


13C-1,2,3,4,7,8-HxCDD

210414R1_1



210414R1_1

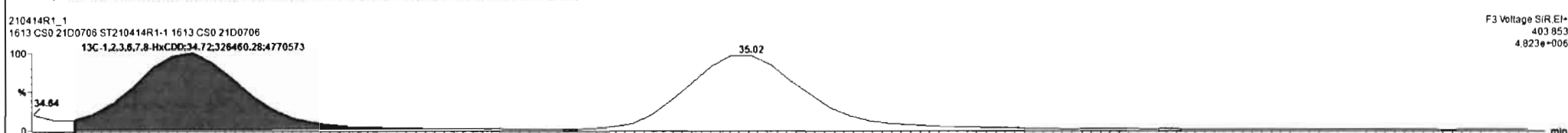
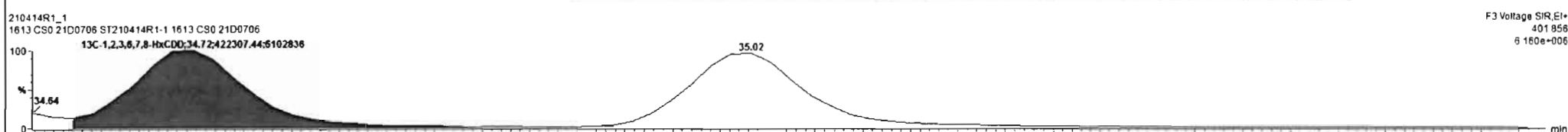
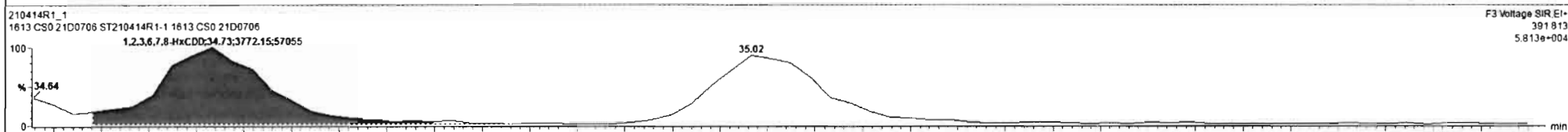
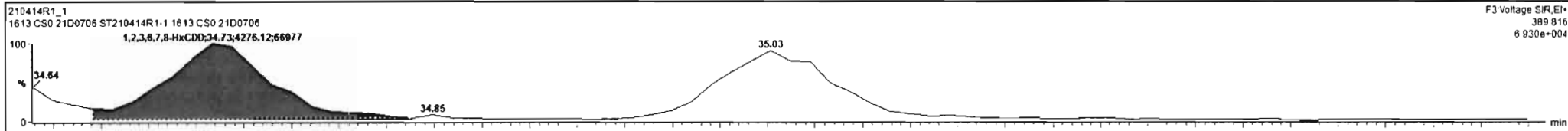


TargetLyx - 210414R1_CRV.qld - Chromatogram

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210414R1_1 ST210414R1-1 1613 CS0 21D0706 1613 CS0 21D0706

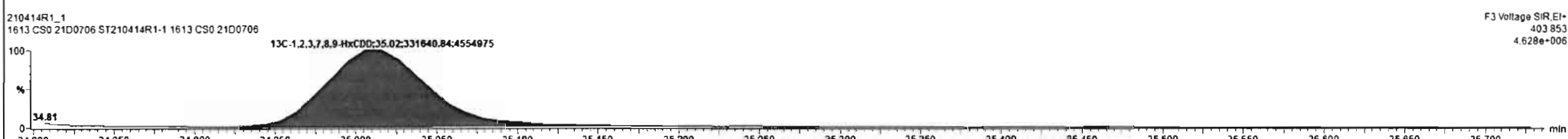
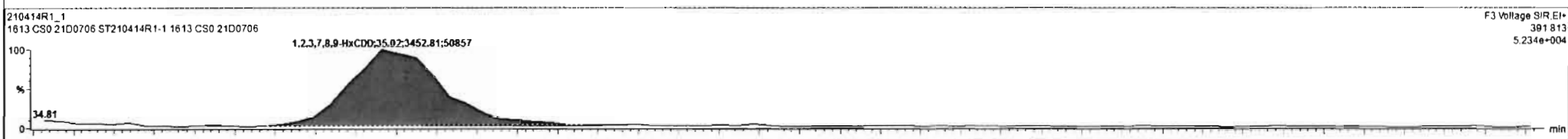
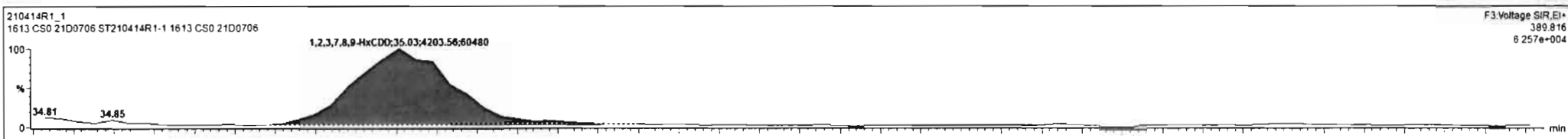
#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	28.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.872	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.9453e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	1,2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	6.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	2,3,4,8,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	6.41	0.973	0.0818



Resolv

210414R1_1 CAP NUM

#	Name	RT	RA	Y/N	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3105e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.81	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-8.5	8.96	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	36.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0906e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.8882e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818



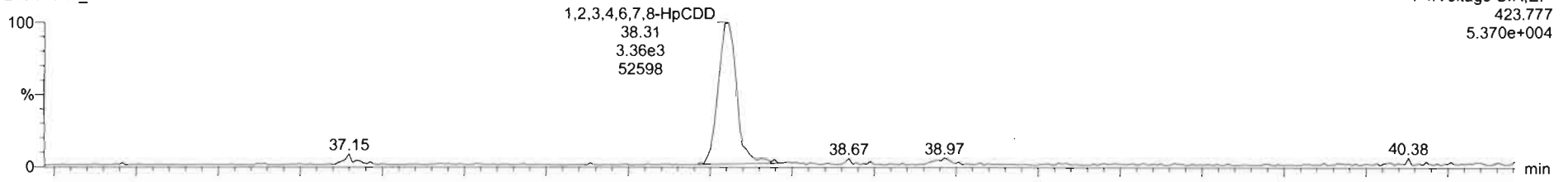
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_1, Date: 14-Apr-2021, Time: 09:44:53, ID: ST210414R1-1 1613 CS0 21D0706, Description: 1613 CS0 21D0706

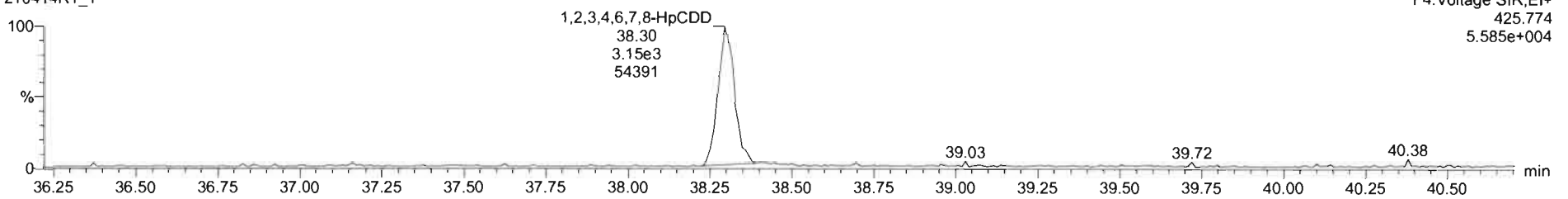
1,2,3,4,6,7,8-HpCDD

210414R1_1



F4: Voltage SIR, EI+
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5.370e+004

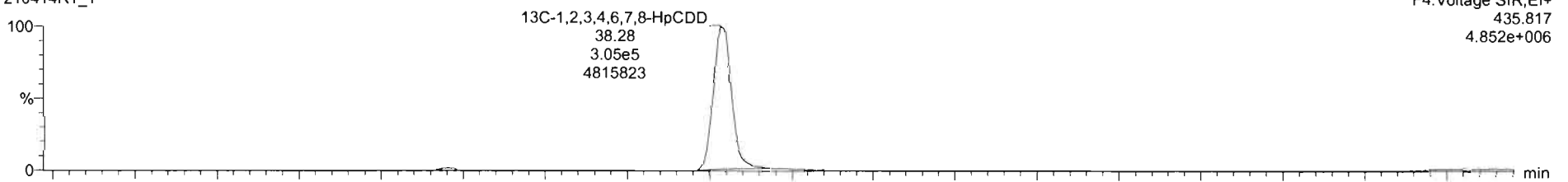
210414R1_1



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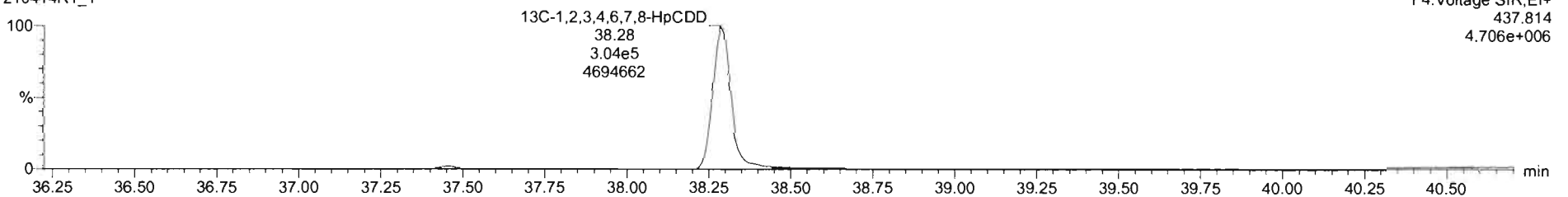
13C-1,2,3,4,6,7,8-HpCDD

210414R1_1



F4: Voltage SIR, EI+
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4.852e+006

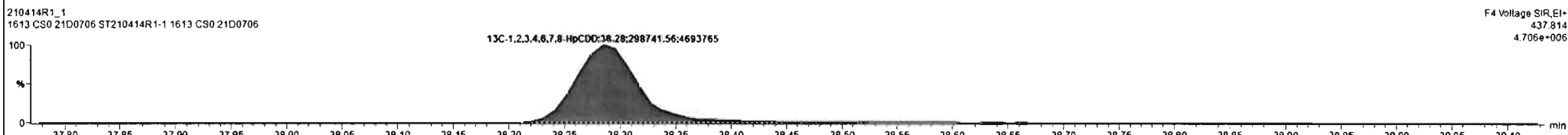
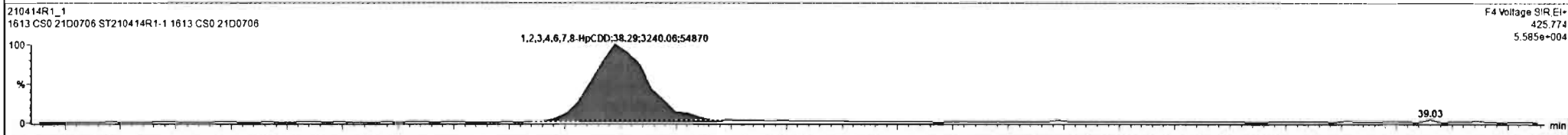
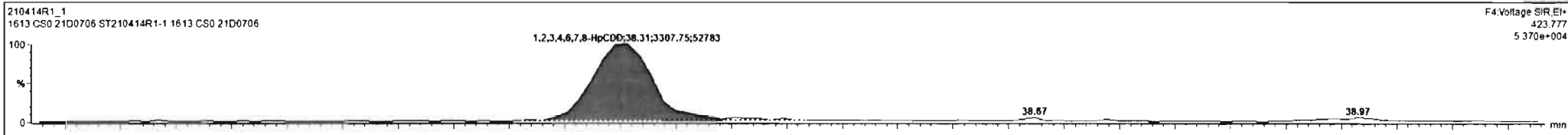
210414R1_1



F4: Voltage SIR, EI+
437.814
4.706e+006

210414R1_1 ST210414R1-1 1613 CS0 21D0706 1613 CS0 21D0706

#	Name	RT	RA	Y/N	Area	S Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0629
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.821	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.856	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.1395e4	1.1567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.463	NO	1.6862e4	1.4573e6	1.250	-3.6	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	1,2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818



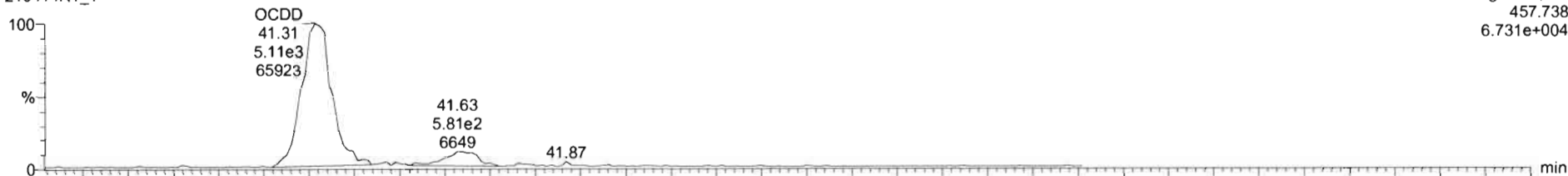
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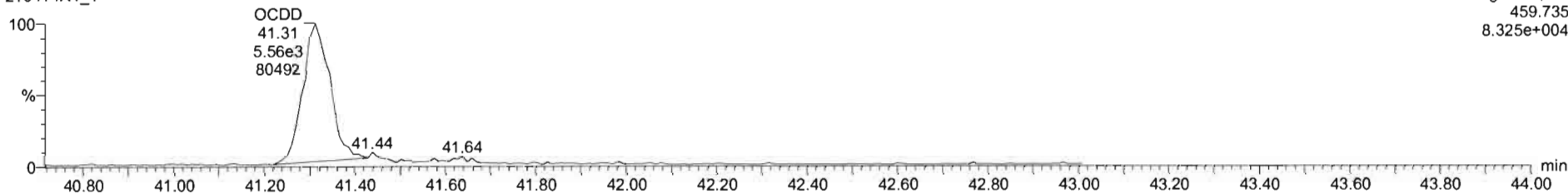
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OCDD

210414R1_1

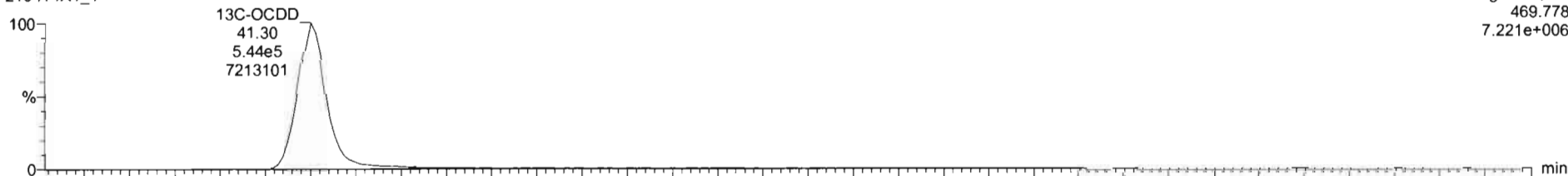


210414R1_1

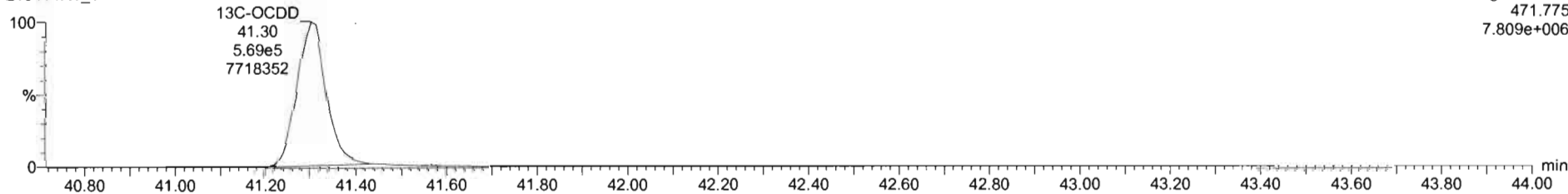


13C-OCDD

210414R1_1



210414R1_1

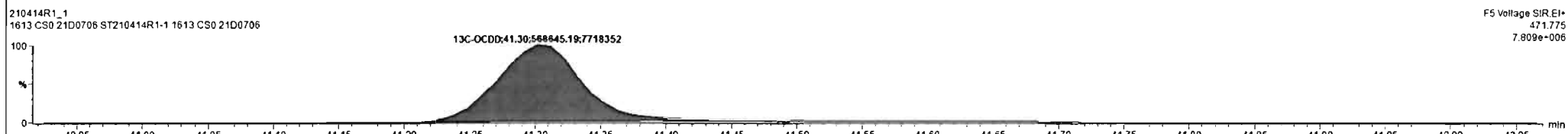
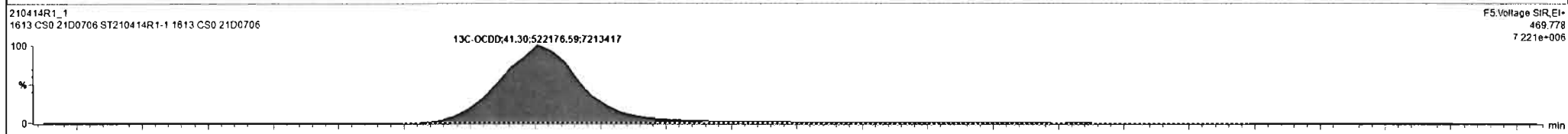
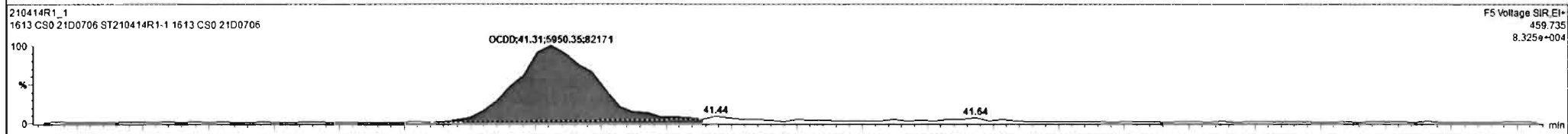
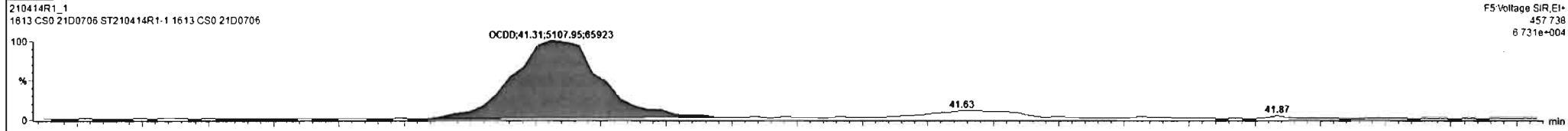


TargetLynx - 210414R1_ChrV.qld - (Chromatogram)

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210414R1_1 ST210414R1_1 1613 CS0 21D0706 1613 CS0 21D0706

#	V	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	7	OCDD	41.31	0.958	NO	1.1058e4	1.0908e5	2.500	-4.9	7.48	0.852	0.0638
8	8	2,3,7,8-TCDF	26.35	0.790	NO	3.8600e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.78	0.936	0.0727
13	13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-6.5	8.41	0.973	0.0818



Regdb. 210414R1_1 CAP NUM

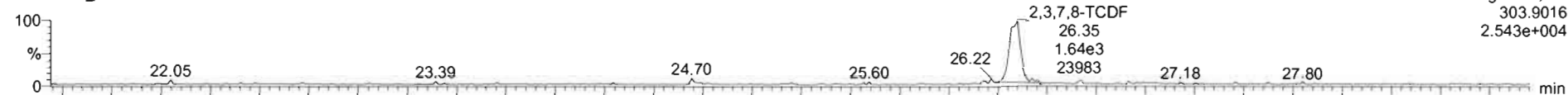
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

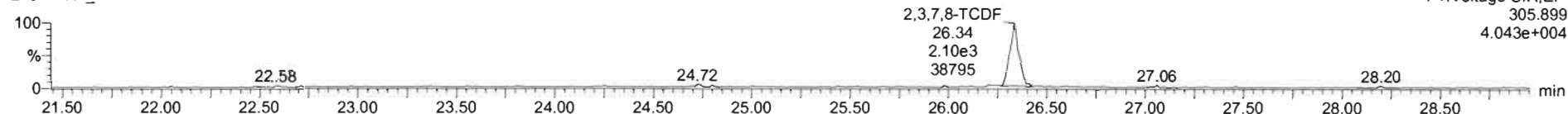
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2,3,7,8-TCDF

210414R1_1

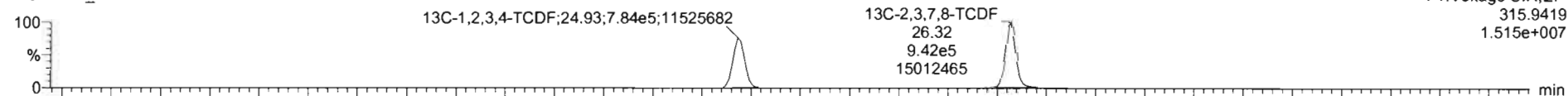


210414R1_1

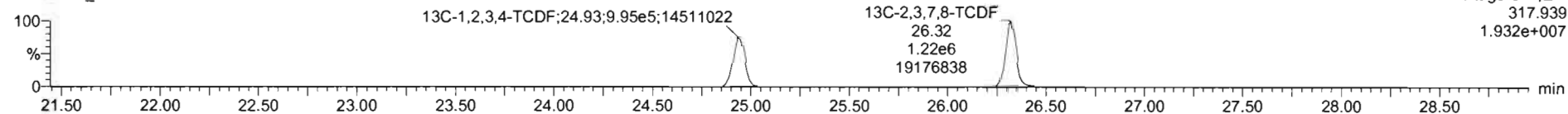


13C-2,3,7,8-TCDF

210414R1_1

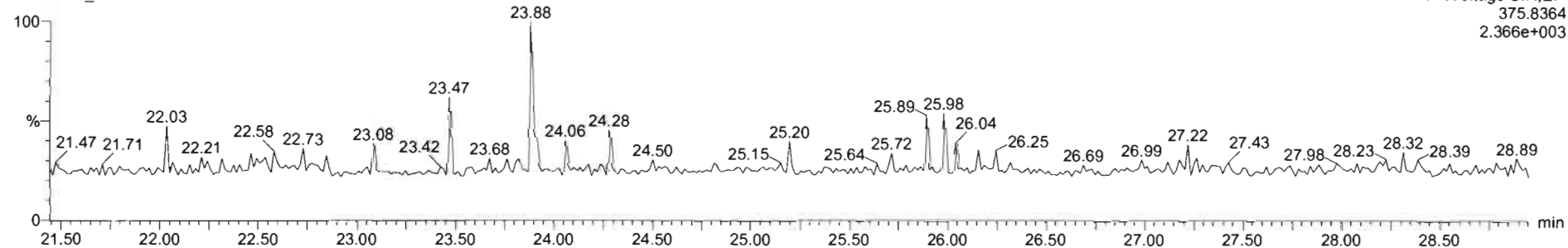


210414R1_1



DPE1

210414R1_1

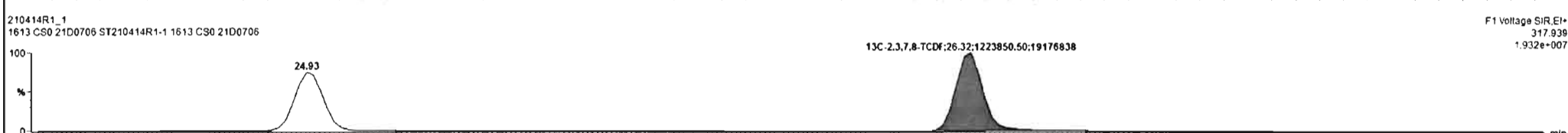
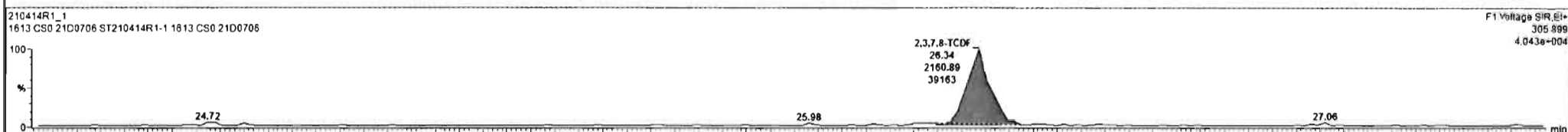
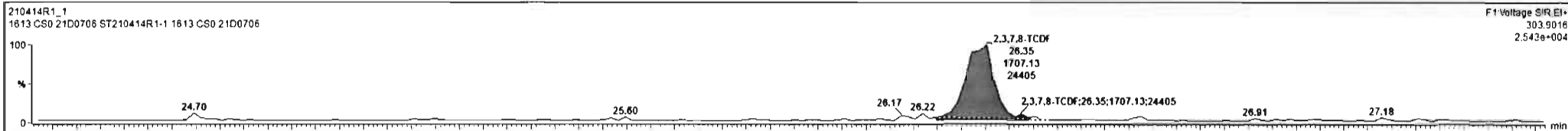


TargetLynx - 210414R1_CRV.qhd - Chromatogram

File Edit View Display Processing Window Help

210414R1_1 - ST210414R1-1 1613 CS0 21D0706 1613 CS0 21D0706

#	Name	RT	RA	Yn	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HxCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.796	NO	3.9650e3	2.1654e6	0.250	-4.3	8.28	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6862e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818



Regb

210414R1_1 CAP NUM

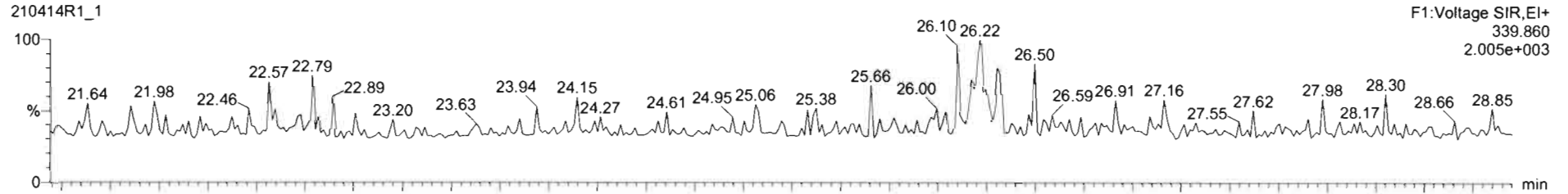
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

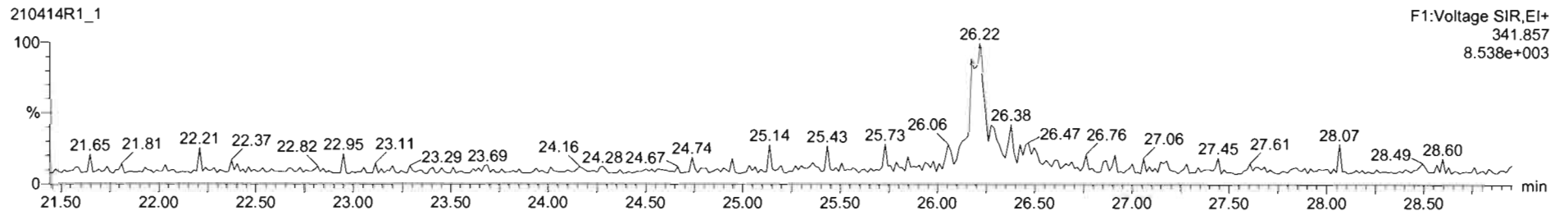
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1st Func. Penta-Furans

210414R1_1

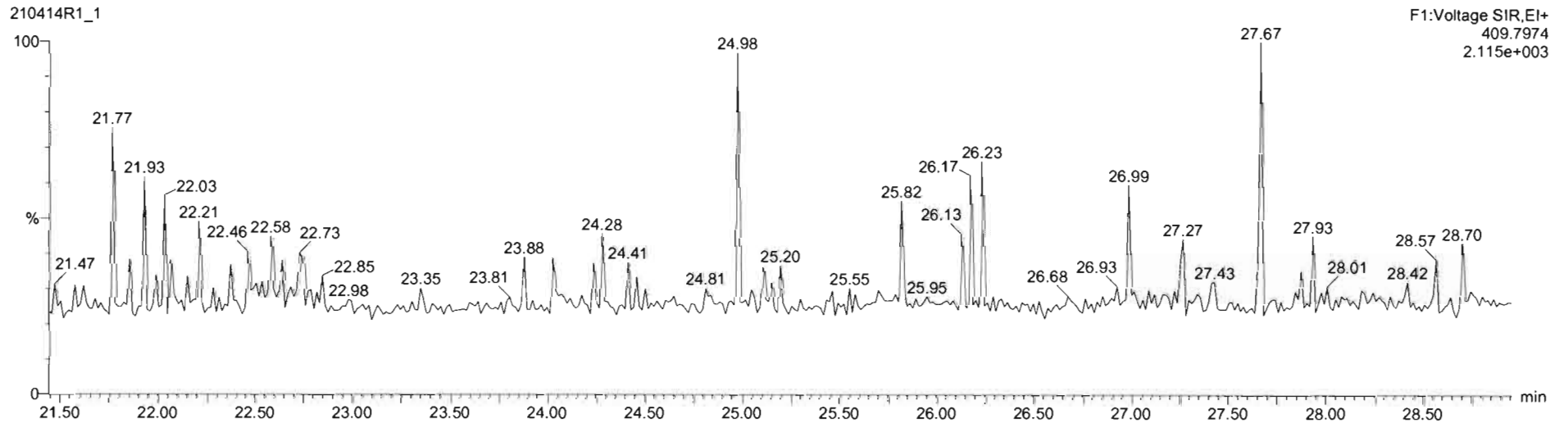


210414R1_1



DPE6

210414R1_1



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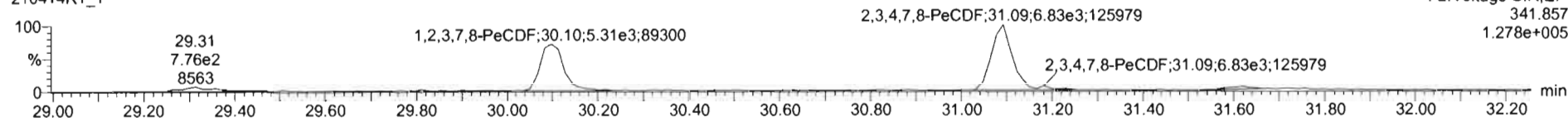
1,2,3,7,8-PeCDF

210414R1_1



F2:Voltage SIR,EI+
339.860
1.867e+005

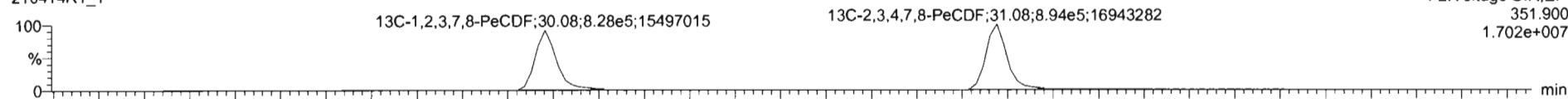
210414R1_1



F2:Voltage SIR,EI+
341.857
1.278e+005

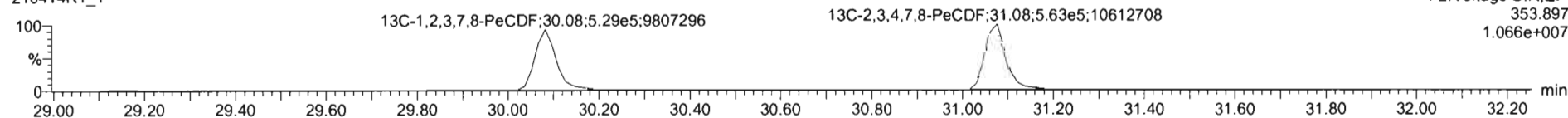
13C-1,2,3,7,8-PeCDF

210414R1_1



F2:Voltage SIR,EI+
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1.702e+007

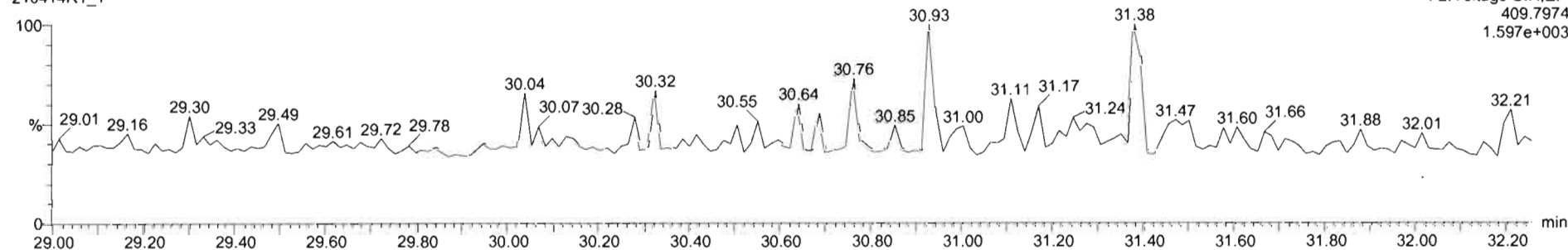
210414R1_1



F2:Voltage SIR,EI+
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1.066e+007

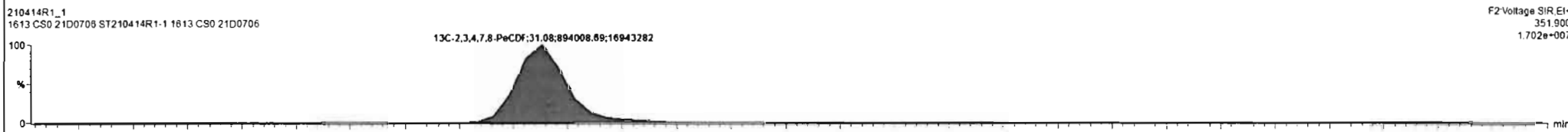
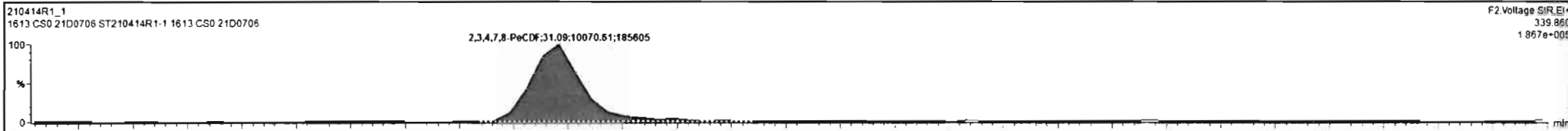
DPE2

210414R1_1



F2:Voltage SIR,EI+
409.7974
1.597e+003

#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HxCDD	38.31	1.021	NO	6.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.8882e4	1.4573e6	1.250	-3.8	7.91	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	8.6242e5	1.250	-8.5	8.41	0.973	0.0818



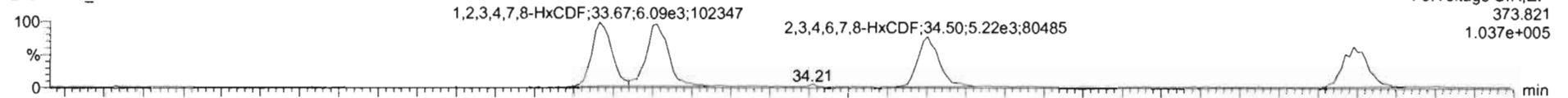
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

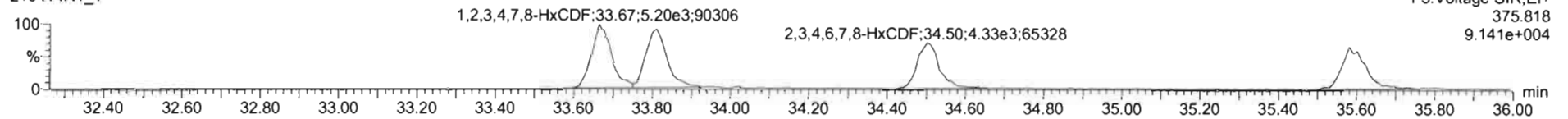
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1,2,3,4,7,8-HxCDF

210414R1_1

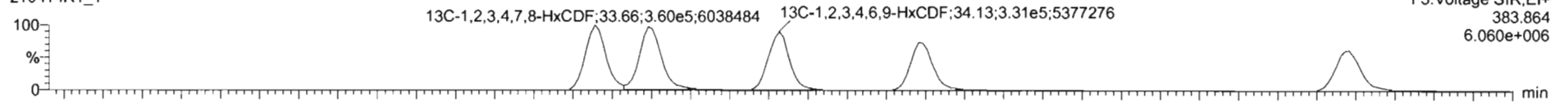


210414R1_1

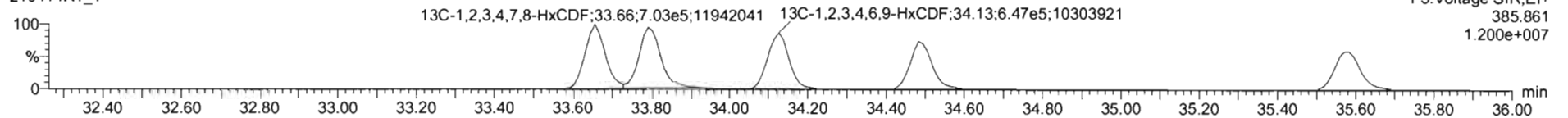


13C-1,2,3,4,7,8-HxCDF

210414R1_1

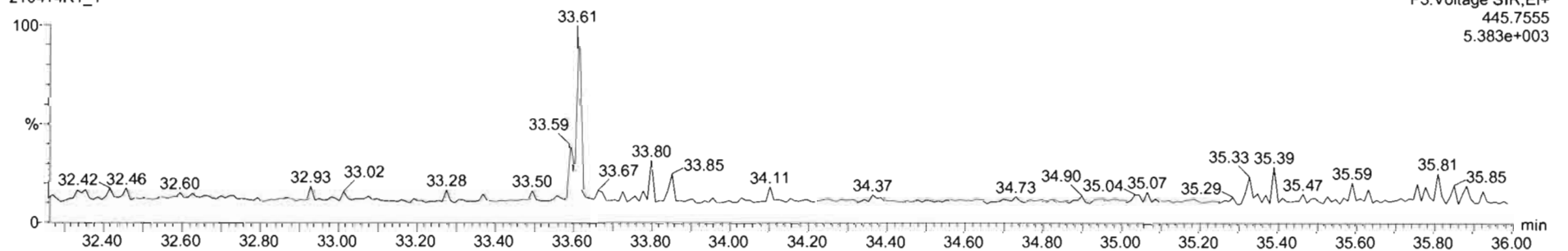


210414R1_1



DPE3

210414R1_1

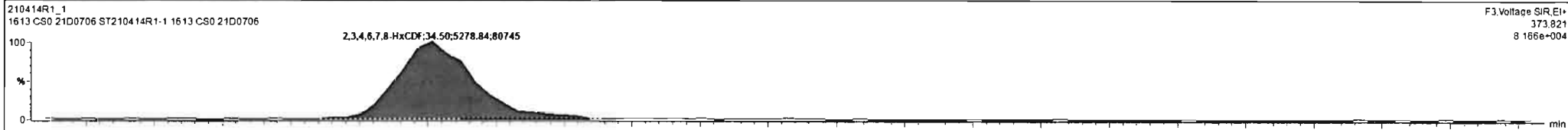


TargetLynx - 210414R1_ChrV.qtd - Chromatogram

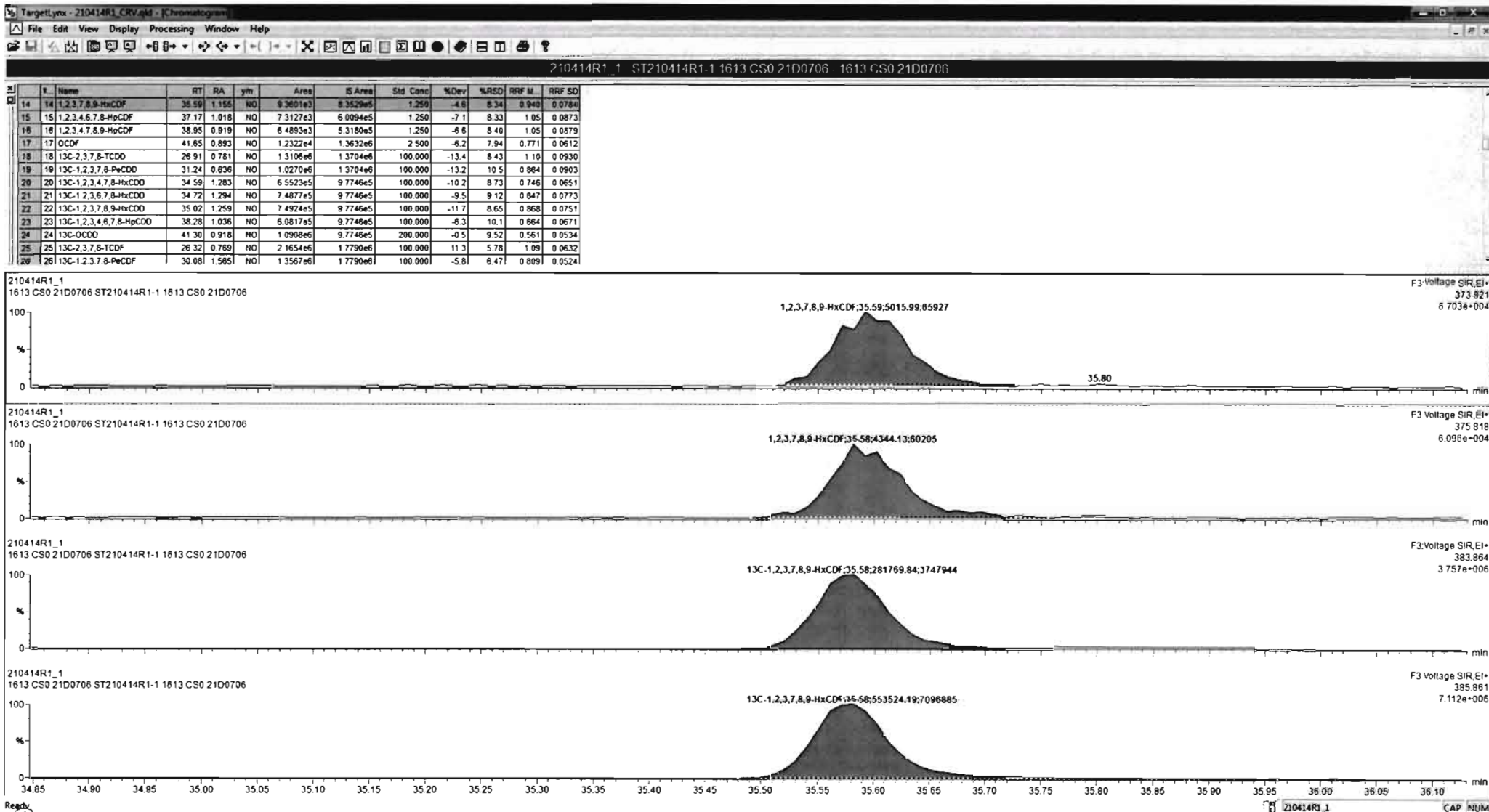
File Edit View Display Processing Window Help

210414R1_1 ST210414R1-1 1613 CS0 21D0706 - 1613 CS0 21D0706

#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.94	0.693	NO	2.8075e3	1.3106e6	0.250	-7.8	6.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.677	NO	1.0318e4	1.0270e6	1.250	-2.7	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.61	1.233	NO	7.3941e3	6.5523e5	1.250	-7.2	6.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.73	1.134	NO	8.0483e3	7.4877e5	1.250	-2.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.03	1.217	NO	7.6564e3	7.4924e5	1.250	-6.5	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.31	1.021	NO	8.5478e3	6.0817e5	1.250	-4.2	7.53	0.899	0.0677
7	OCDD	41.31	0.858	NO	1.1058e4	1.0908e6	2.500	-4.9	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.790	NO	3.8680e3	2.1654e6	0.250	-4.3	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.10	1.521	NO	1.3395e4	1.3567e6	1.250	-9.9	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.09	1.483	NO	1.6882e4	1.4573e6	1.250	-3.8	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.67	1.172	NO	1.1296e4	1.0627e6	1.250	-7.6	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.81	1.248	NO	1.1920e4	1.1097e6	1.250	-8.2	7.78	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.50	1.224	NO	9.5902e3	6.6249e5	1.250	-8.5	8.41	0.973	0.0818



Repx: 210414R1_1 CAP NUM



Dataset: Untitled

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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

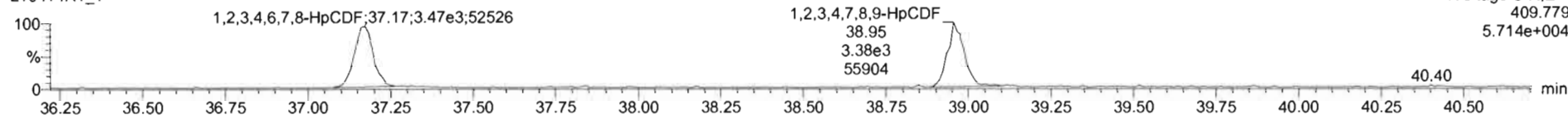
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1,2,3,4,6,7,8-HpCDF

210414R1_1

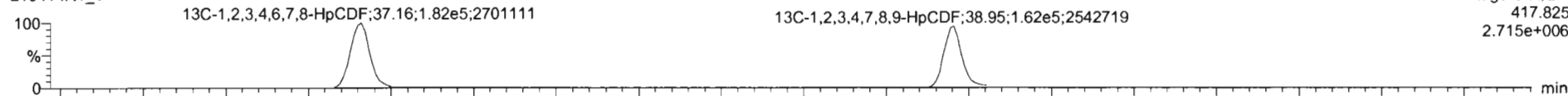


210414R1_1

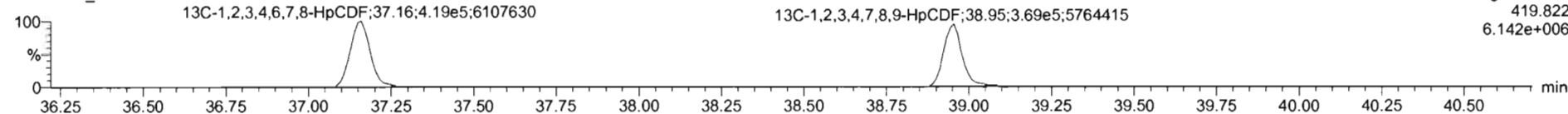


13C-1,2,3,4,6,7,8-HpCDF

210414R1_1

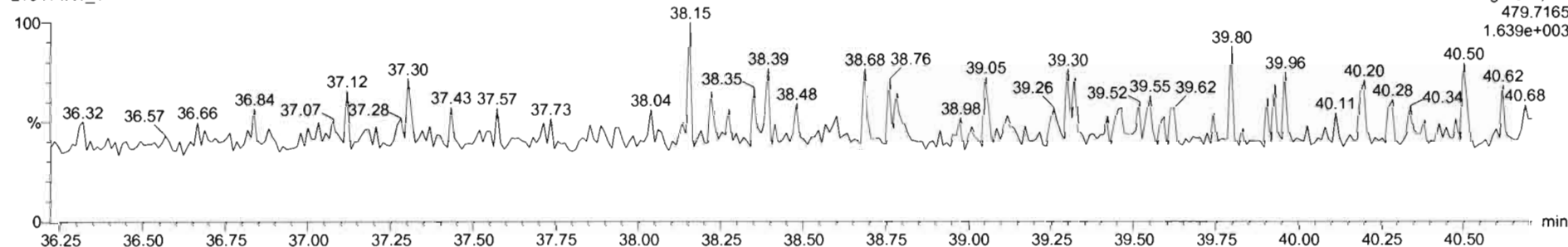


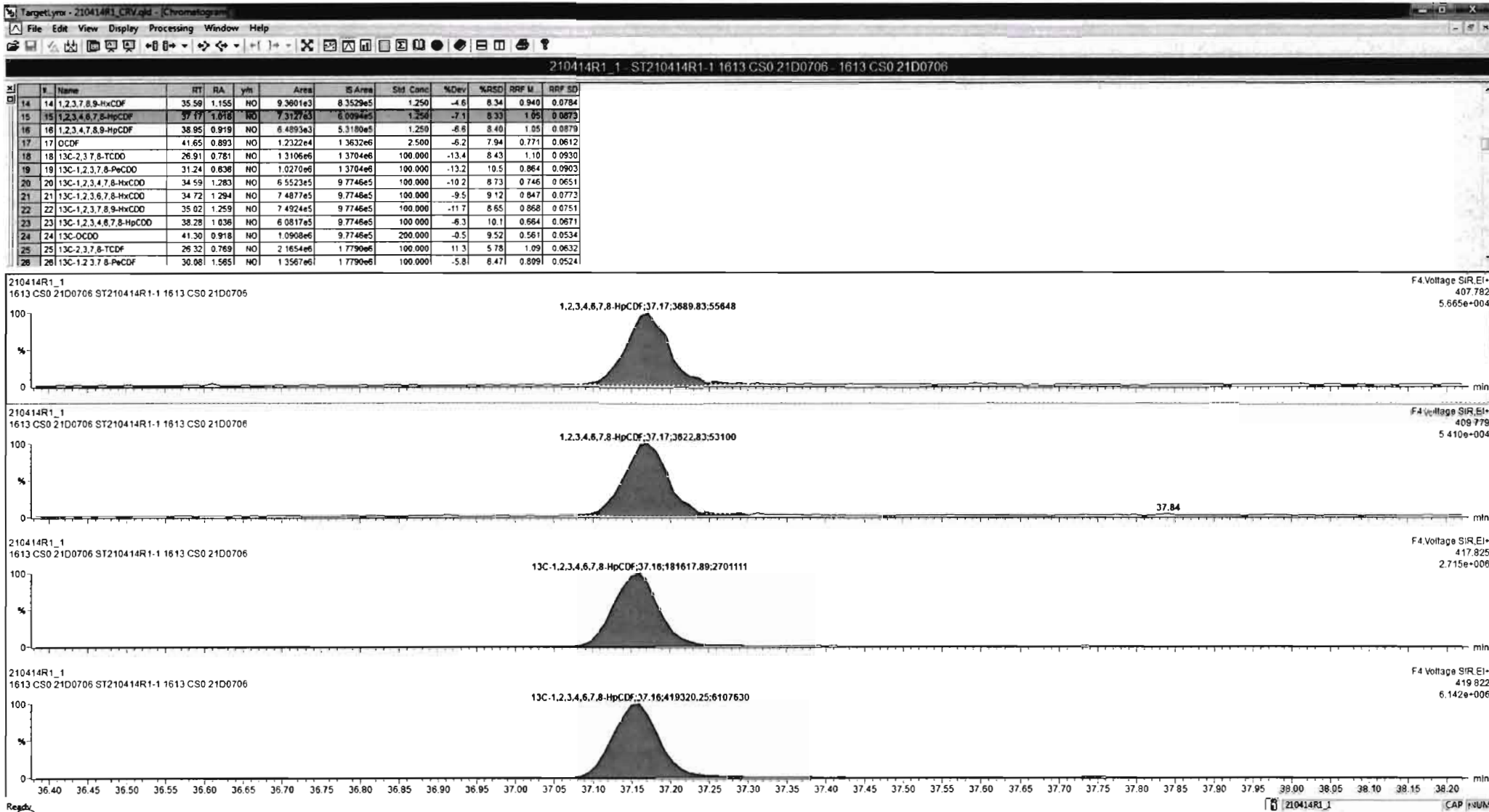
210414R1_1



DPE4

210414R1_1





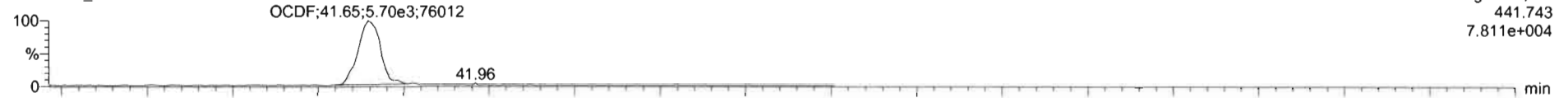
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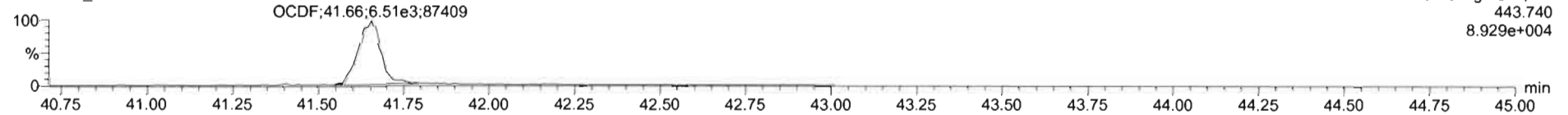
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OCDF

210414R1_1

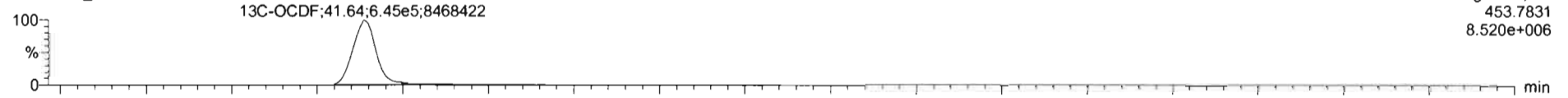


210414R1_1

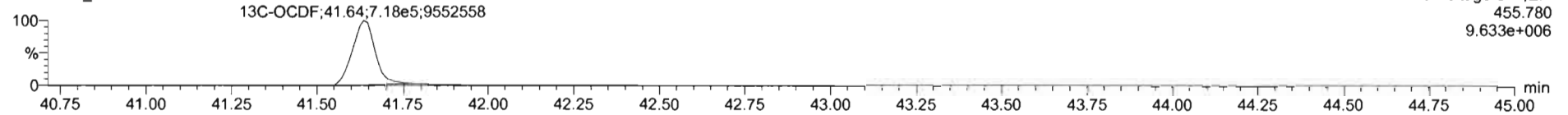


13C-OCDF

210414R1_1

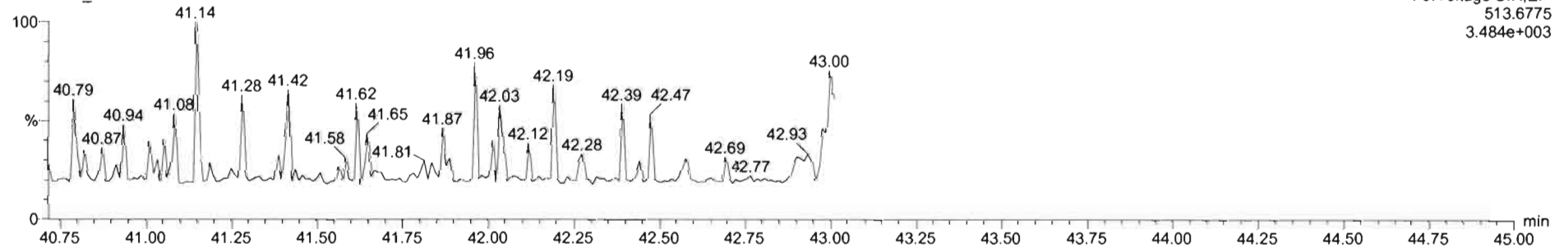


210414R1_1

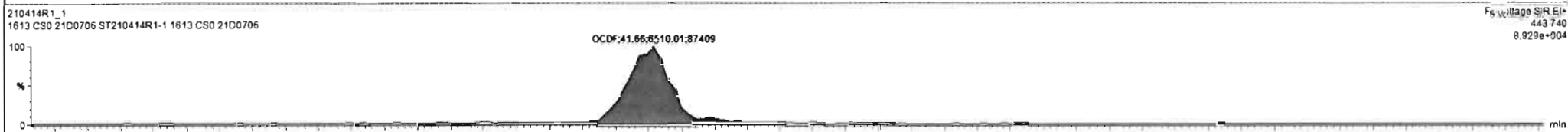
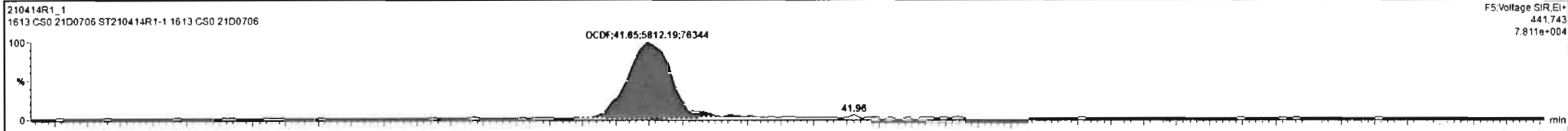


DPE5

210414R1_1



#	Name	RT	SA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
14	1,2,3,7,8,9-HxCDF	35.59	1.155	NO	8.9601e3	8.3529e5	1.250	-4.6	8.34	0.940	0.0784
15	1,2,3,4,6,7,8-HpCDF	37.17	1.018	NO	7.3127e3	6.0094e5	1.250	-7.1	8.33	1.05	0.0873
16	1,2,3,4,7,8,9-HpCDF	38.95	0.919	NO	6.4893e3	5.3180e5	1.250	-6.6	8.40	1.05	0.0879
17	OCDF	41.65	0.880	NO	1.2322e4	1.3632e6	2.500	-6.2	7.94	0.771	0.0612
18	13C-2,3,7,8-TCDD	26.91	0.781	NO	1.3106e6	1.3704e6	100.000	-13.4	8.43	1.10	0.0930
19	13C-1,2,3,7,8-PeCDD	31.24	0.638	NO	1.0270e6	1.3704e6	100.000	-13.2	10.5	0.864	0.0903
20	13C-1,2,3,4,7,8-HxCDD	34.59	1.283	NO	6.5523e5	9.7746e5	100.000	-10.2	8.73	0.746	0.0651
21	13C-1,2,3,6,7,8-HxCDD	34.72	1.294	NO	7.4877e5	9.7746e5	100.000	-9.5	9.12	0.847	0.0773
22	13C-1,2,3,7,8,9-HxCDD	35.02	1.259	NO	7.4924e5	9.7746e5	100.000	-11.7	8.65	0.868	0.0751
23	13C-1,2,3,4,6,7,8-HpCDD	38.28	1.038	NO	6.0817e5	9.7746e5	100.000	-6.3	10.1	0.664	0.0671
24	13C-OCDD	41.30	0.918	NO	1.0908e6	9.7746e5	200.000	-0.5	9.52	0.561	0.0534
25	13C-2,3,7,8-TCDF	26.32	0.769	NO	2.1654e6	1.7790e6	100.000	11.3	5.78	1.09	0.0632
26	13C-1,2,3,7,8-PeCDF	30.08	1.565	NO	1.3567e6	1.7790e6	100.000	-5.8	6.47	0.809	0.0524



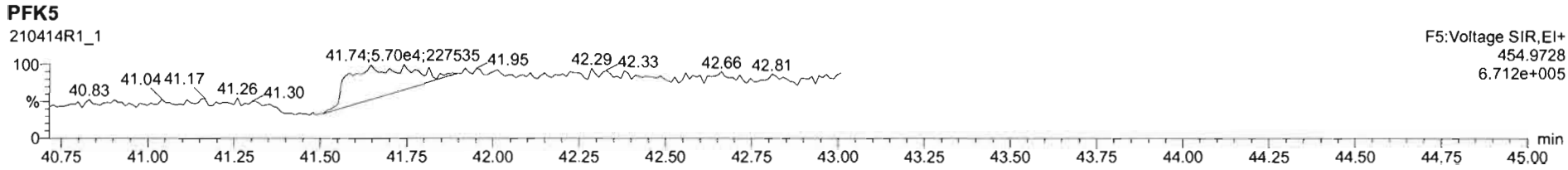
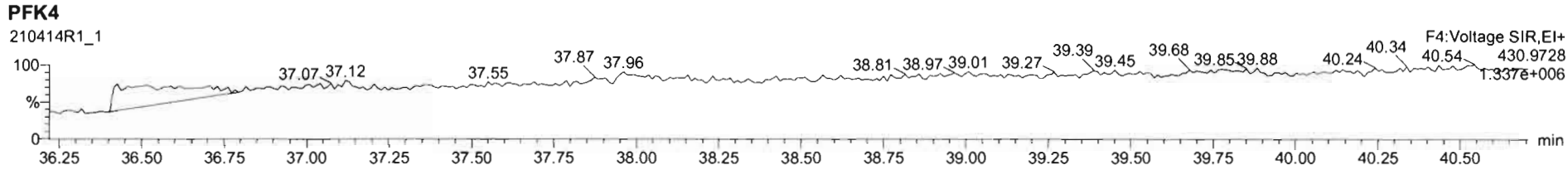
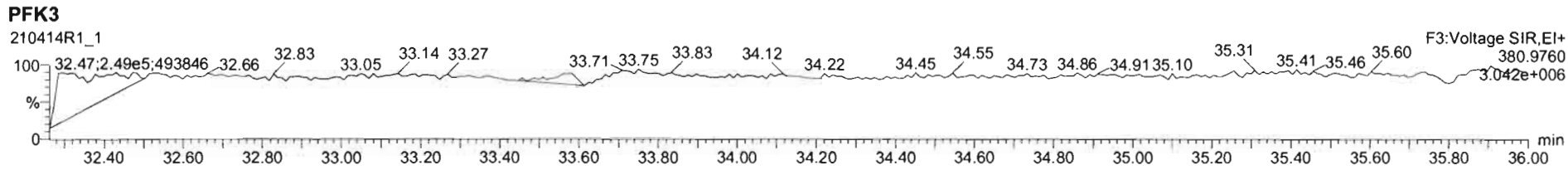
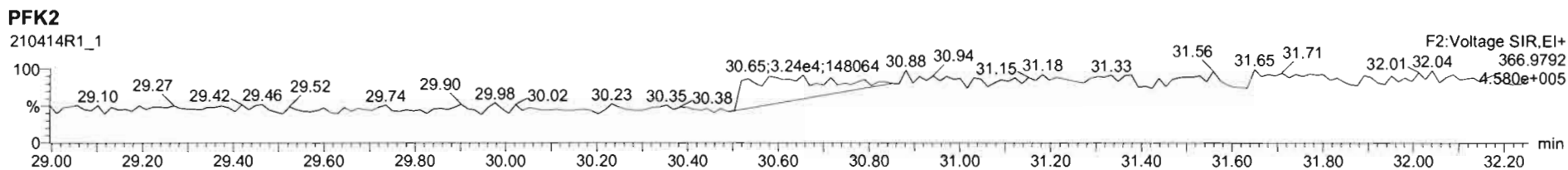
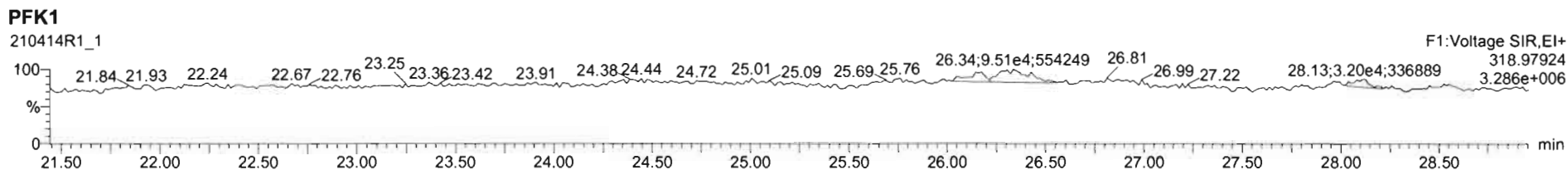
Regdy

210414R1_1 CAP INUM

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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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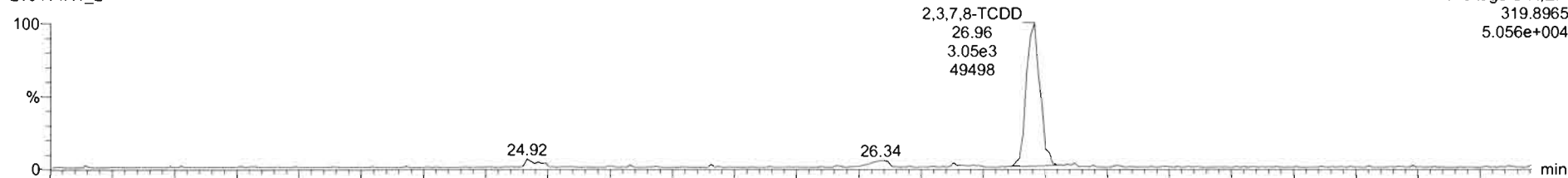
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

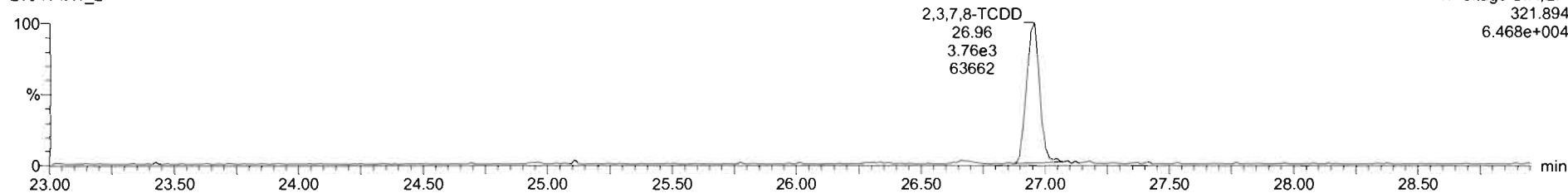
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2,3,7,8-TCDD

210414R1_2

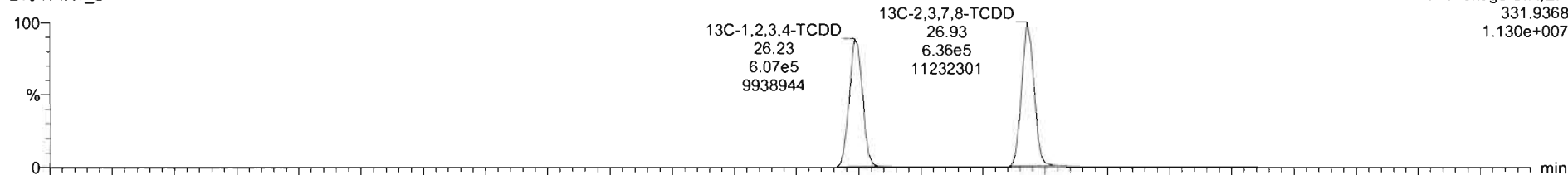


210414R1_2

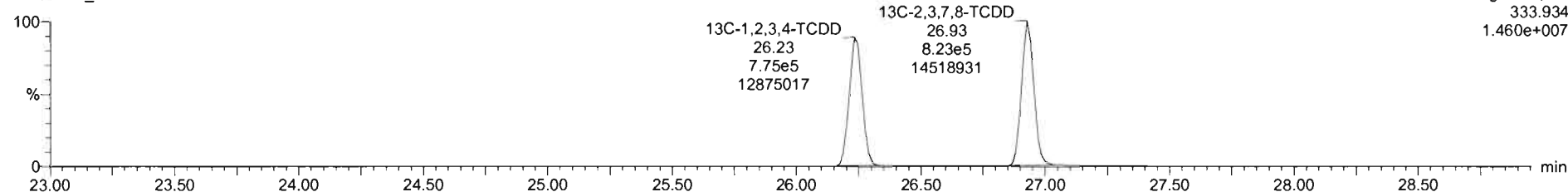


13C-2,3,7,8-TCDD

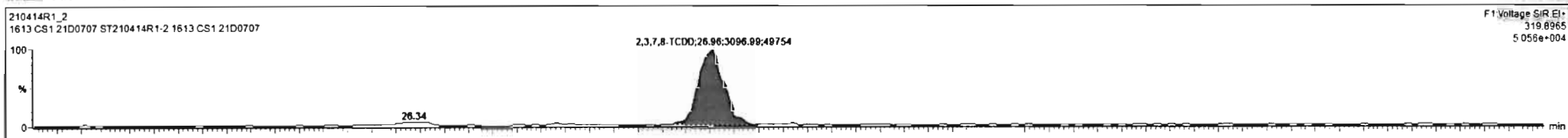
210414R1_2



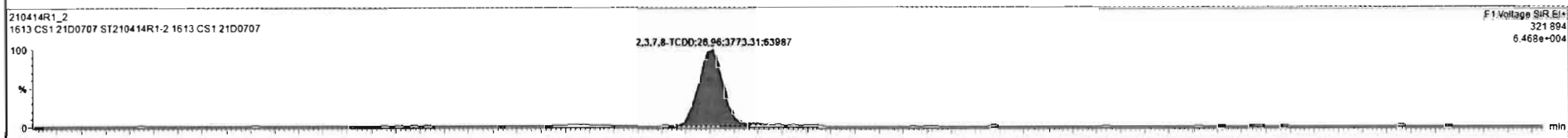
210414R1_2



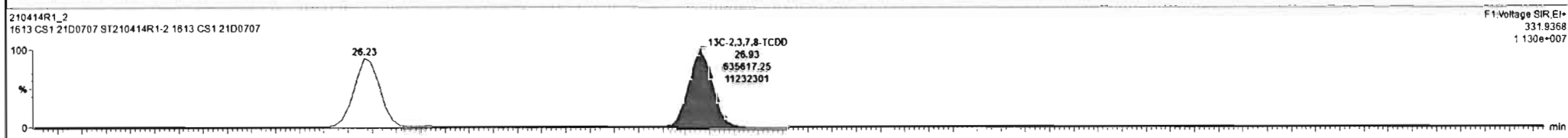
#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc.	%Dev	NRSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4587e6	0.500	1.4	8.93	0.929	0.0629
2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.62	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0663
4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7068e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	6.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	36.32	1.024	NO	1.7166e4	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.713	NO	7.3380e3	2.1336e6	0.500	-7.9	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.6894e4	1.6094e6	2.500	-4.7	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	6.41	0.973	0.0818



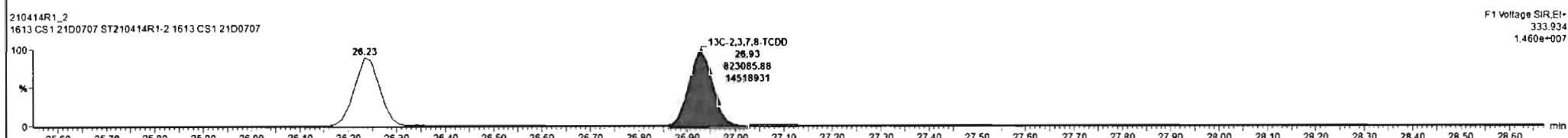
F1: Voltage S1R, E1+
319.8965
5.056e+004



F1: Voltage S1R, E1+
321.894
6.468e+004



F1: Voltage S1R, E1+
331.9368
1.130e+007



F1: Voltage S1R, E1+
333.934
1.460e+007

Dataset: Untitled

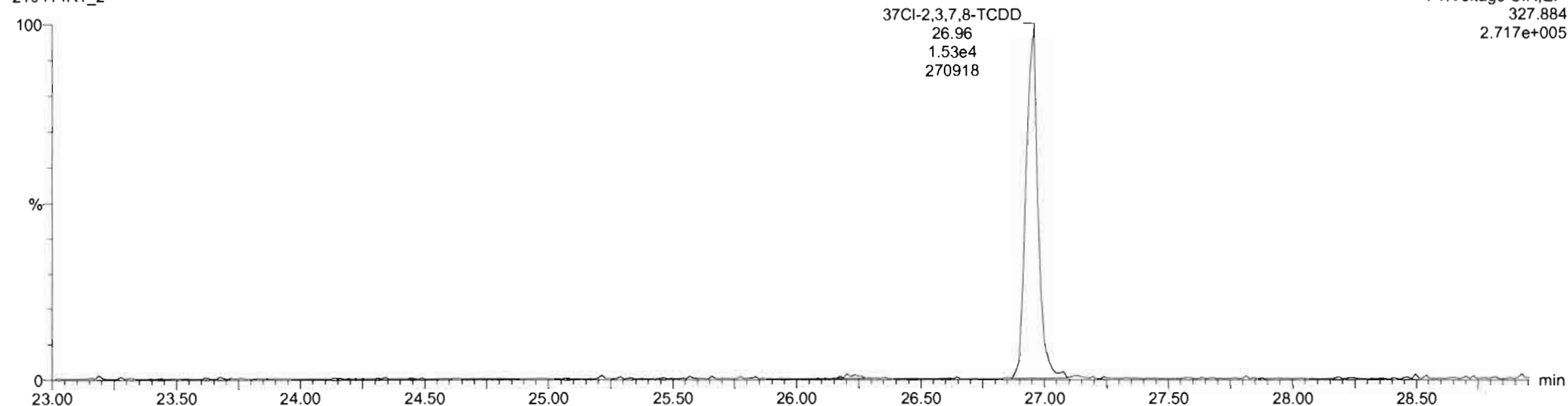
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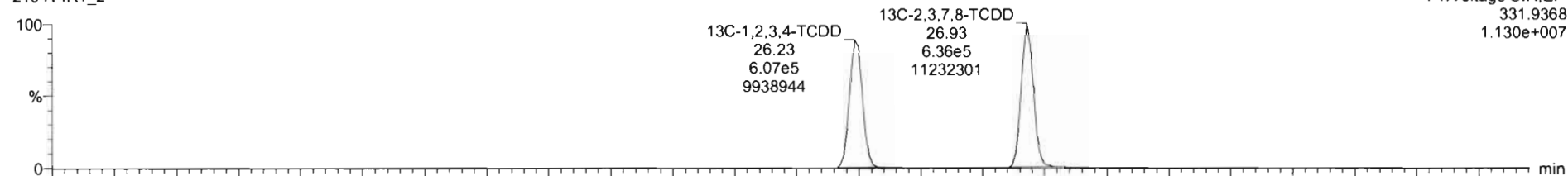
37Cl-2,3,7,8-TCDD

210414R1_2

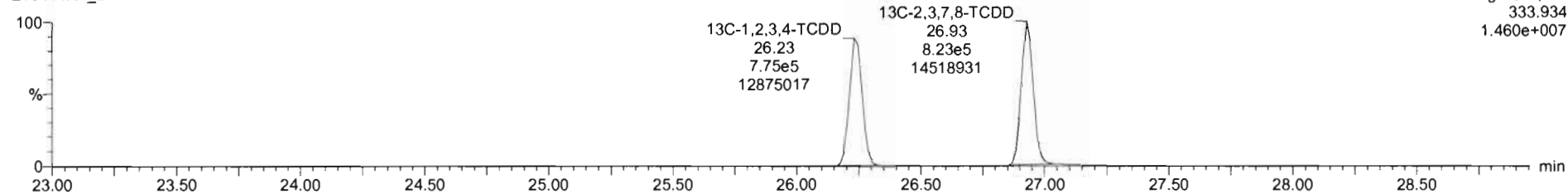


13C-1,2,3,4-TCDD

210414R1_2



210414R1_2



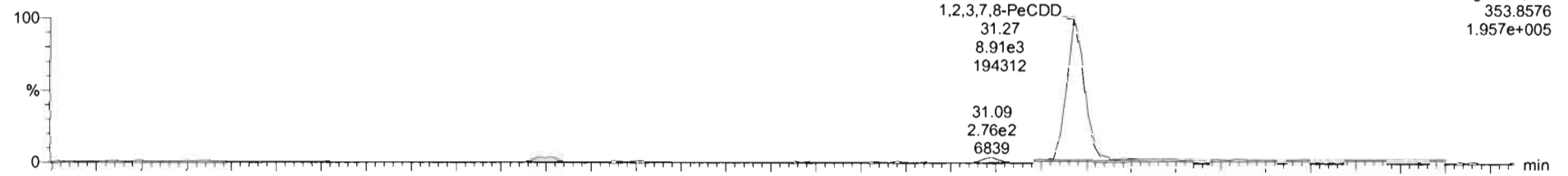
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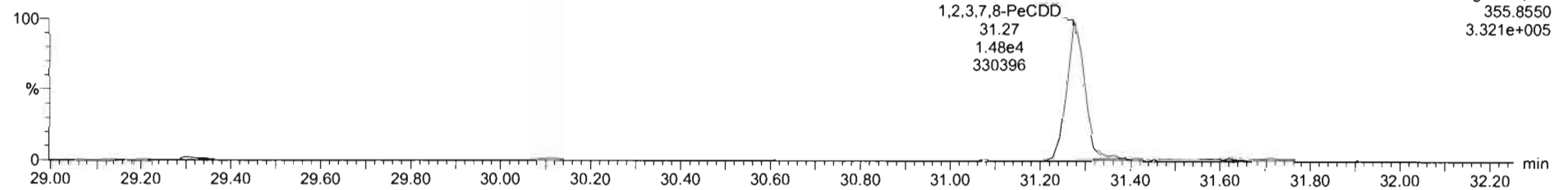
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1,2,3,7,8-PeCDD

210414R1_2

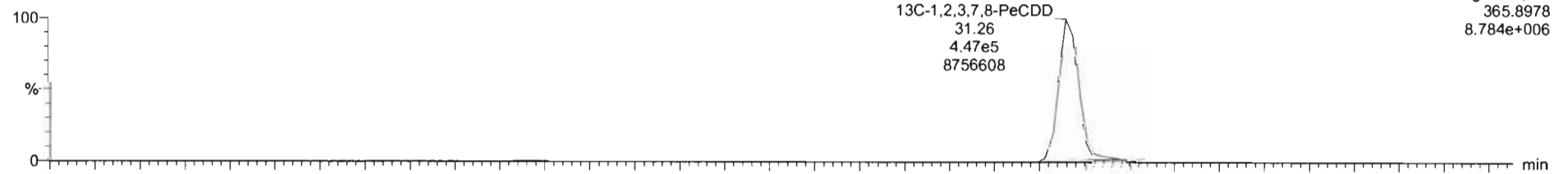


210414R1_2

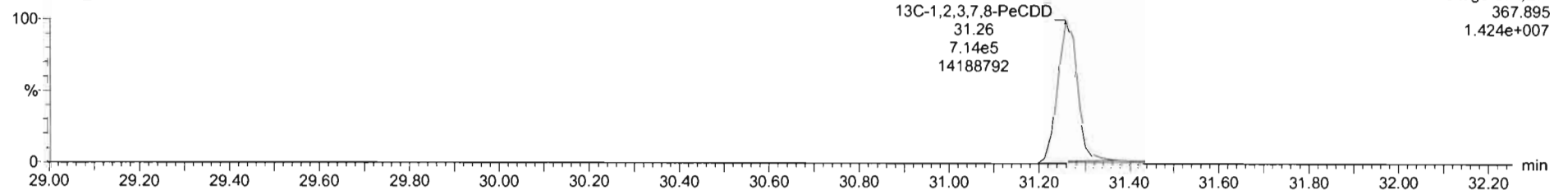


13C-1,2,3,7,8-PeCDD

210414R1_2



210414R1_2



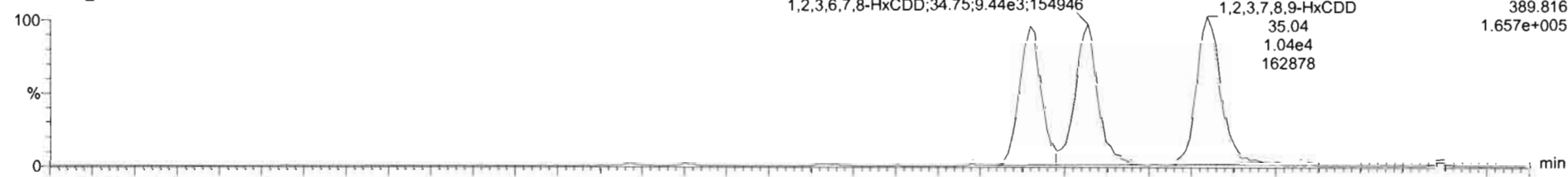
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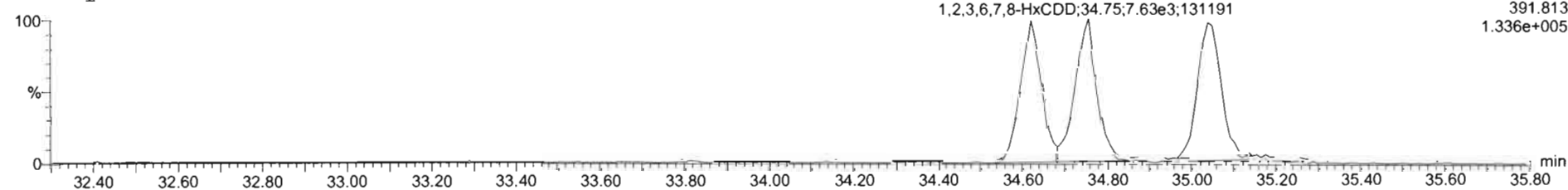
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1,2,3,4,7,8-HxCDD

210414R1_2

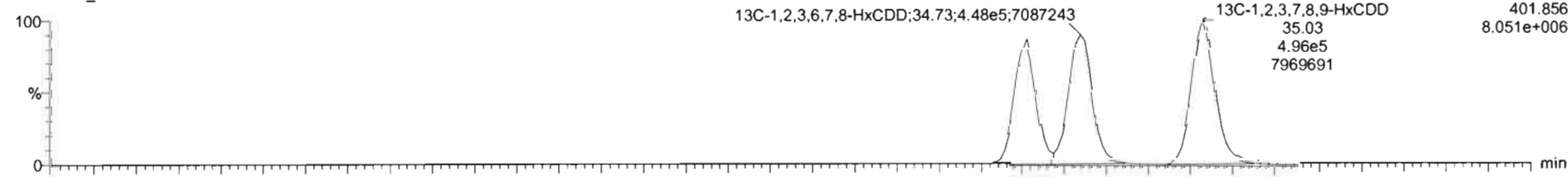


210414R1_2

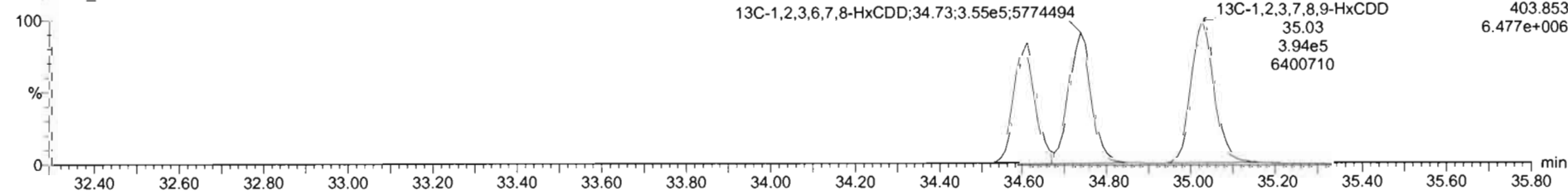


13C-1,2,3,4,7,8-HxCDD

210414R1_2



210414R1_2



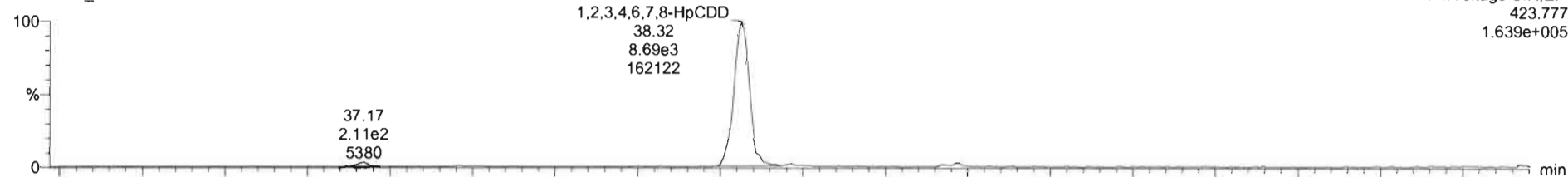
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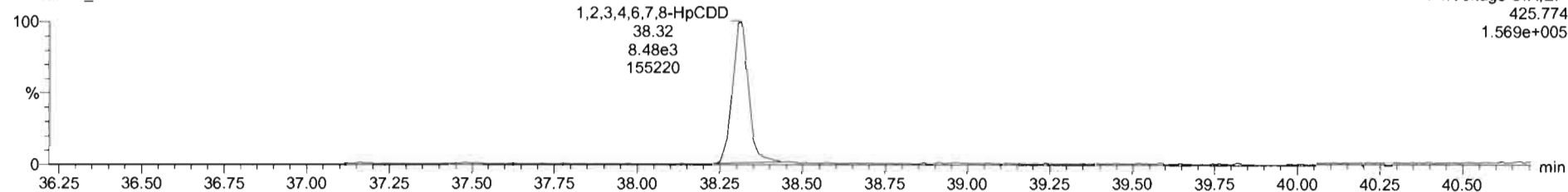
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1,2,3,4,6,7,8-HpCDD

210414R1_2

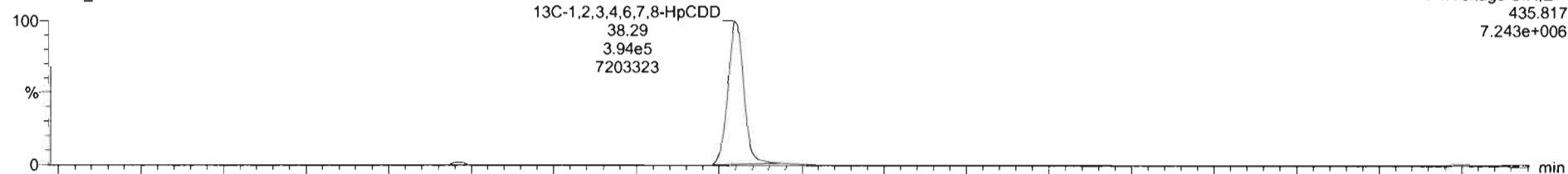


210414R1_2

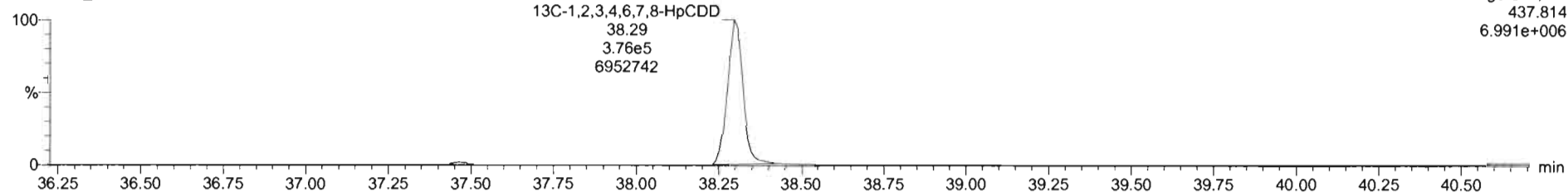


13C-1,2,3,4,6,7,8-HpCDD

210414R1_2



210414R1_2



Dataset: Untitled

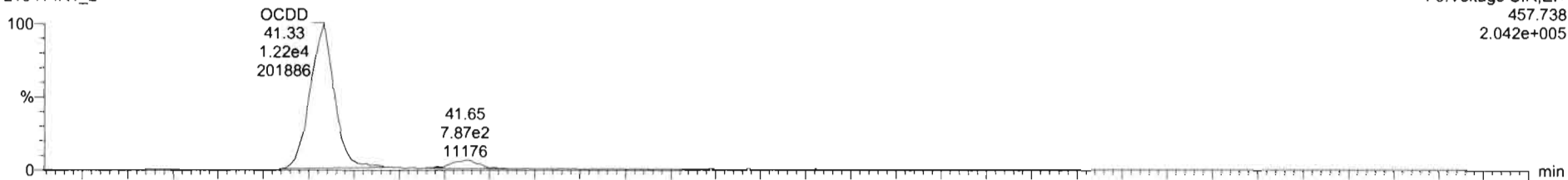
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OCDD

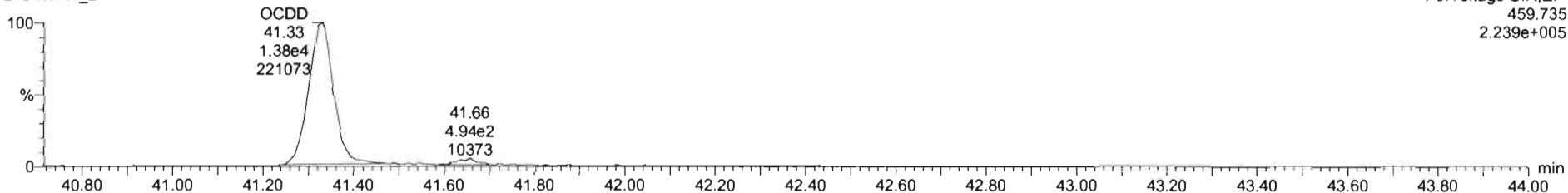
210414R1_2

F5:Voltage SIR,EI+
457.738
2.042e+005



210414R1_2

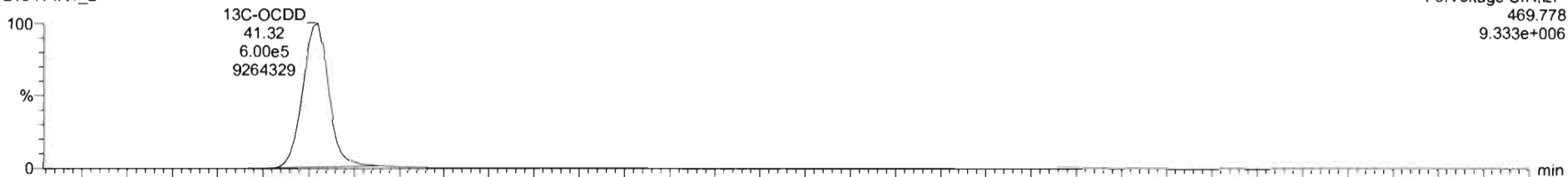
F5:Voltage SIR,EI+
459.735
2.239e+005



13C-OCDD

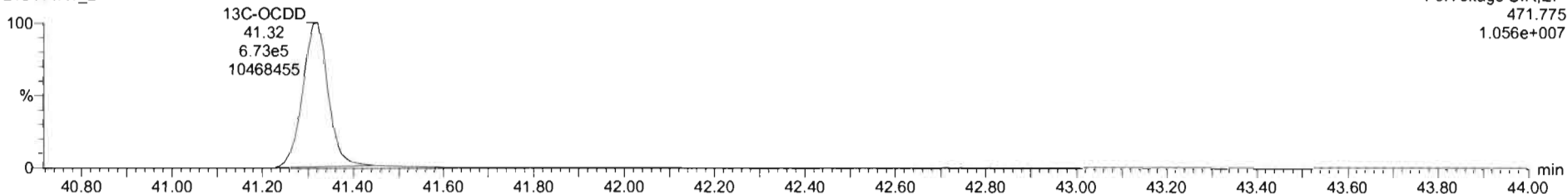
210414R1_2

F5:Voltage SIR,EI+
469.778
9.333e+006



210414R1_2

F5:Voltage SIR,EI+
471.775
1.056e+007



Dataset: Untitled

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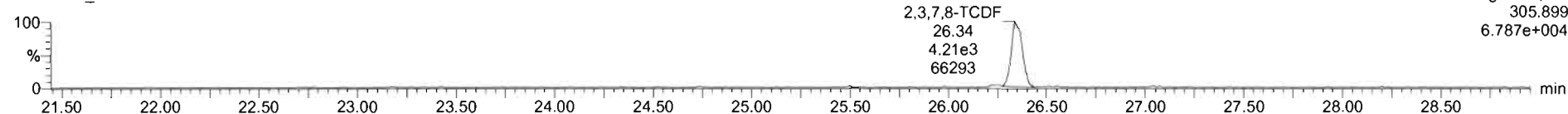
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2,3,7,8-TCDF

210414R1_2

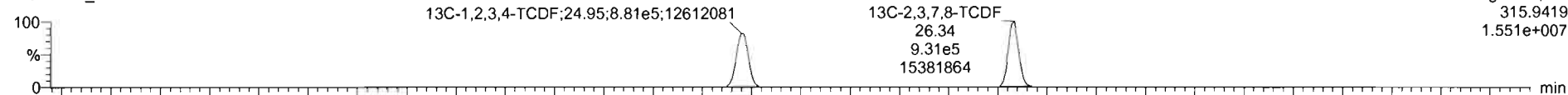


210414R1_2

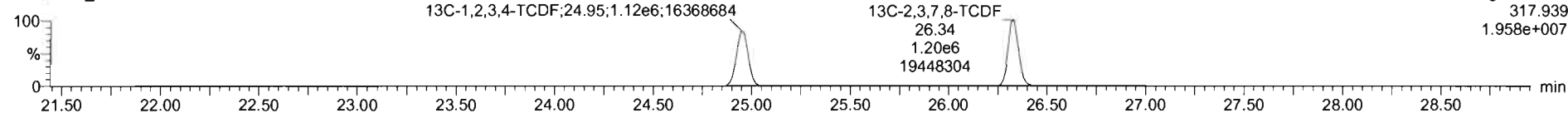


13C-2,3,7,8-TCDF

210414R1_2

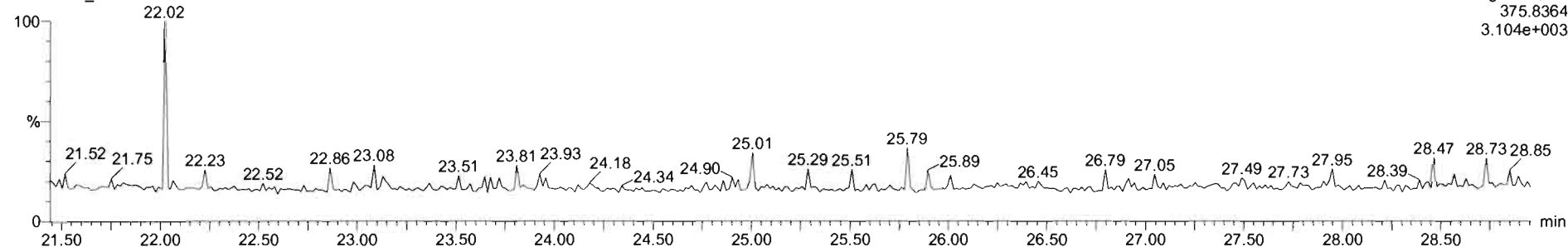


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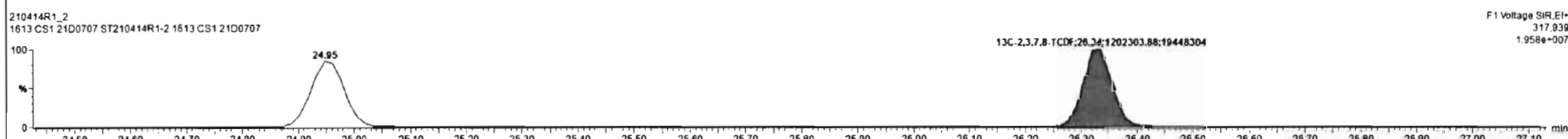
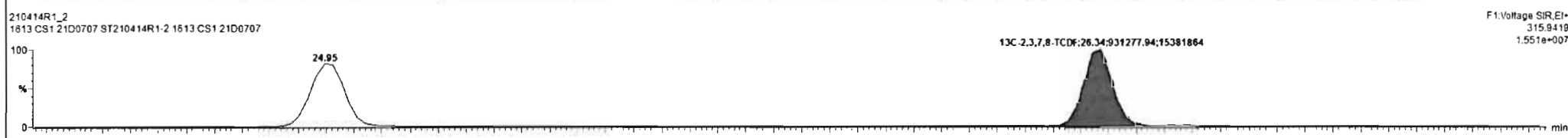


DPE1

210414R1_2



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4567e6	0.500	1.4	8.93	0.929	0.0629
2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.62	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7068e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.32	1.024	NO	1.7166e4	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.713	NO	7.3350e3	2.1336e6	0.500	-7.9	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	6.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.6894e4	1.6094e6	2.500	-4.7	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	8.41	0.973	0.0818



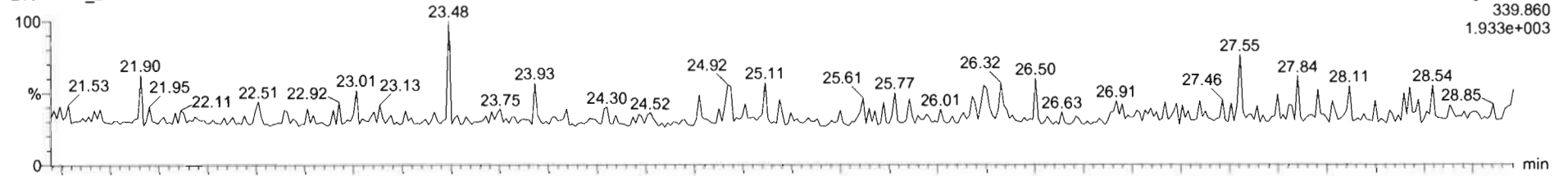
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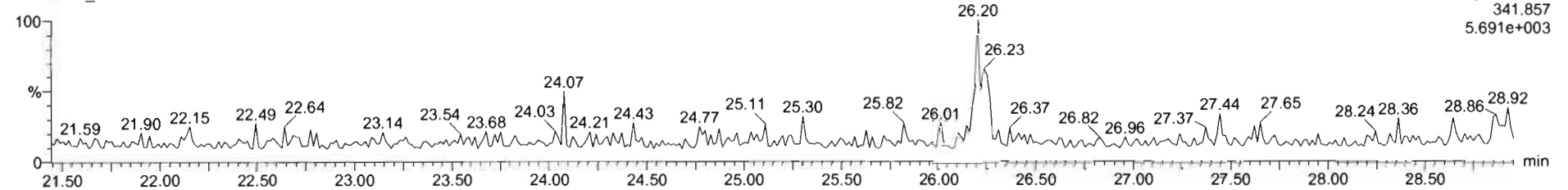
Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

1st Func. Penta-Furans

210414R1_2

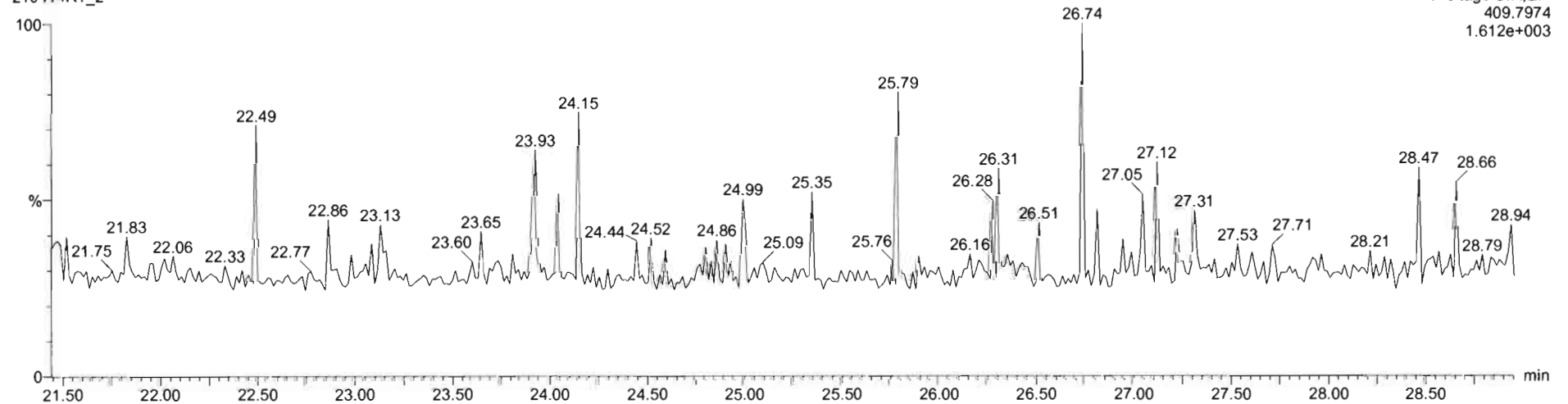


210414R1_2



DPE6

210414R1_2



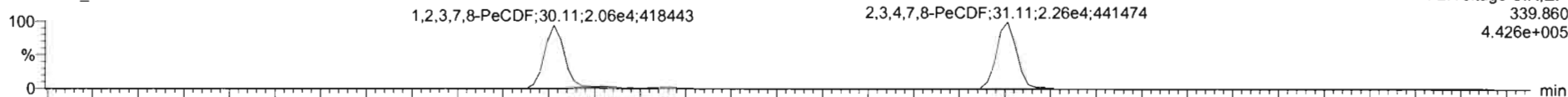
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Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

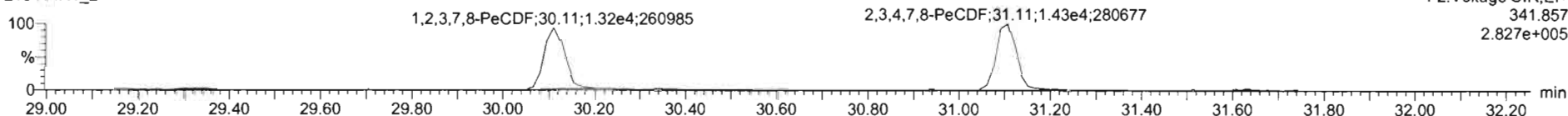
1,2,3,7,8-PeCDF

210414R1_2



F2:Voltage SIR,EI+
339.860
4.426e+005

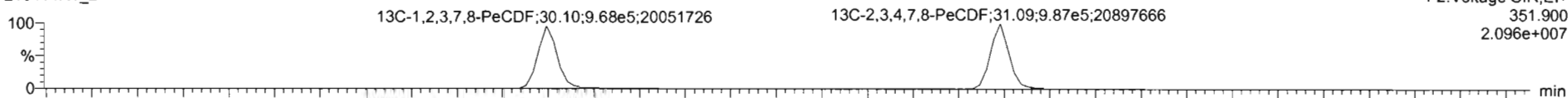
210414R1_2



F2:Voltage SIR,EI+
341.857
2.827e+005

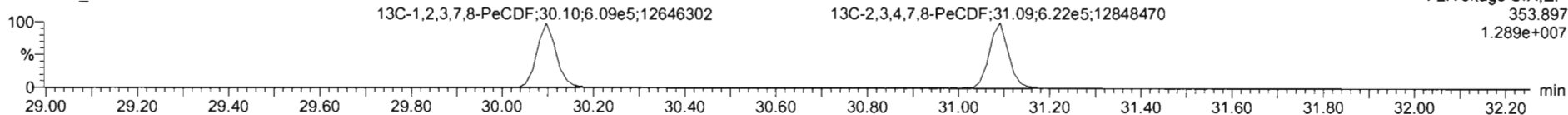
13C-1,2,3,7,8-PeCDF

210414R1_2



F2:Voltage SIR,EI+
351.900
2.096e+007

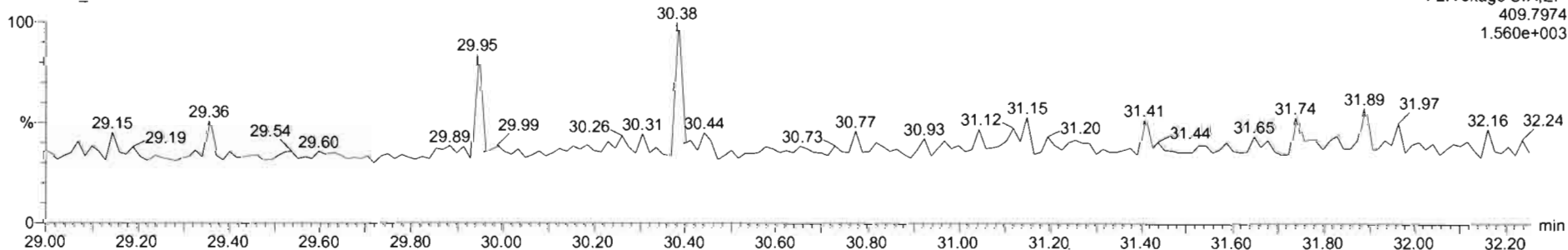
210414R1_2



F2:Voltage SIR,EI+
353.897
1.289e+007

DPE2

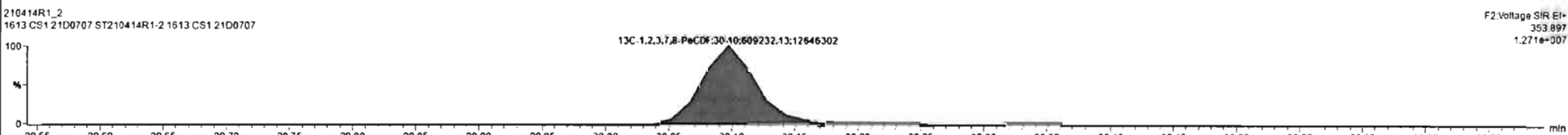
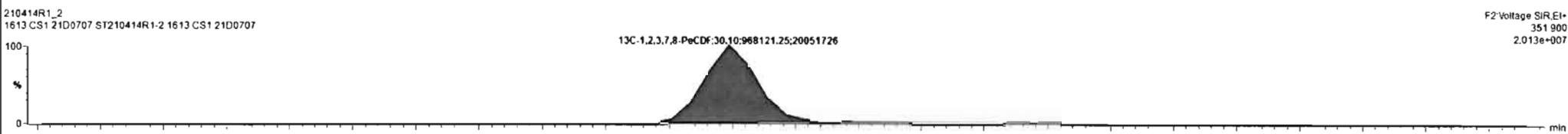
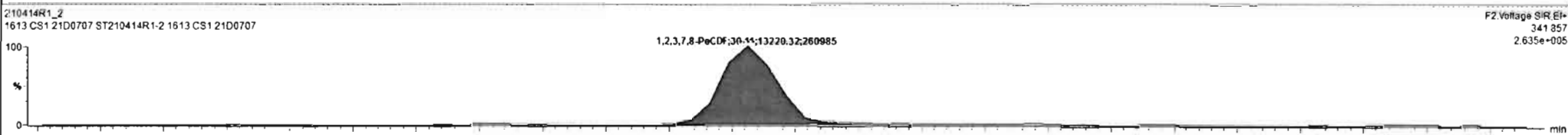
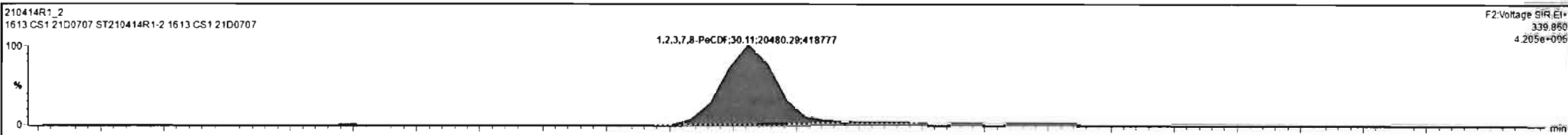
210414R1_2



F2:Voltage SIR,EI+
409.7974
1.560e+003

210414R1_2 ST210414R1-2 1613 CS1 21D0707 - 1613 CS1 21D0707

#	Name	RT	RA	yn	Area	IS Area	Std. Conc	%Dev	NRSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4587e6	0.500	1.4	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.62	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7068e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	38.32	1.024	NO	1.7196e4	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.713	NO	7.3389e3	2.1330e6	0.500	-7.9	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.8894e4	1.8094e6	2.500	-4.7	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	8.41	0.973	0.0818



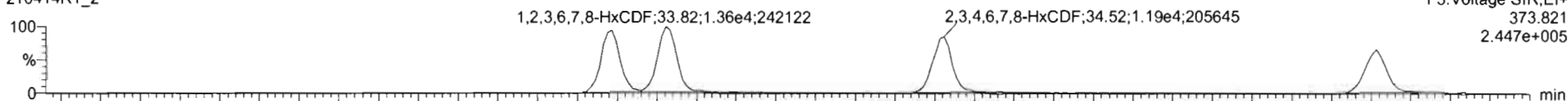
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

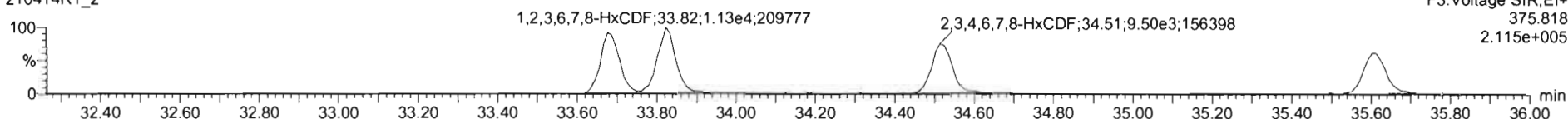
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1,2,3,4,7,8-HxCDF

210414R1_2

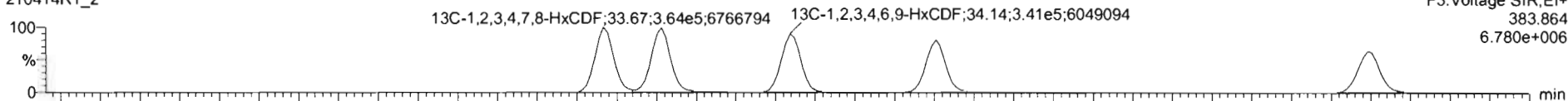


210414R1_2

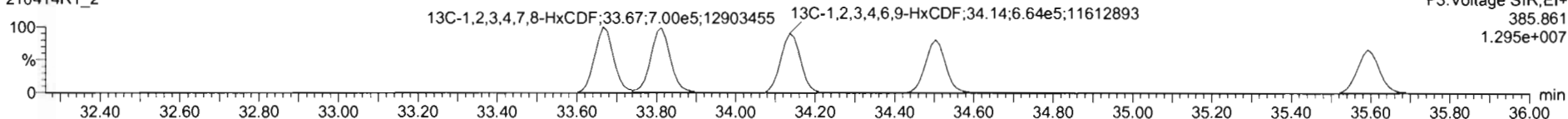


13C-1,2,3,4,7,8-HxCDF

210414R1_2

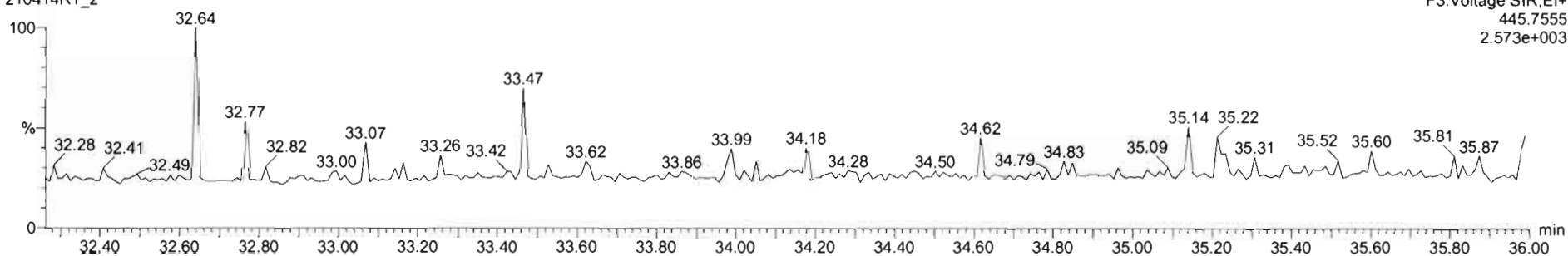


210414R1_2

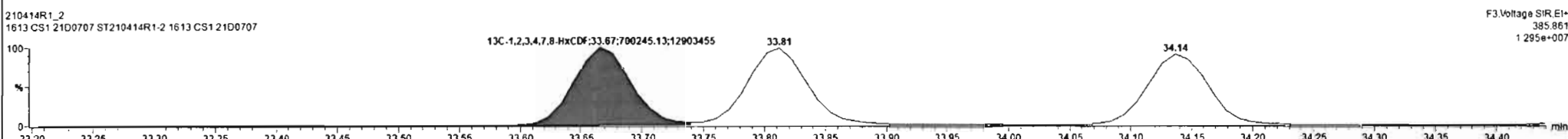
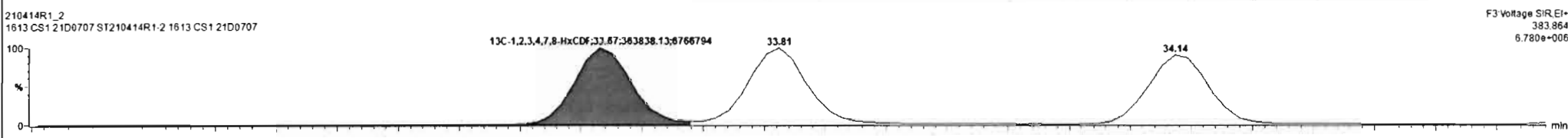
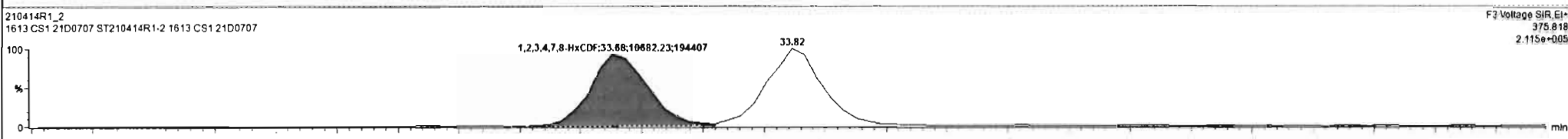
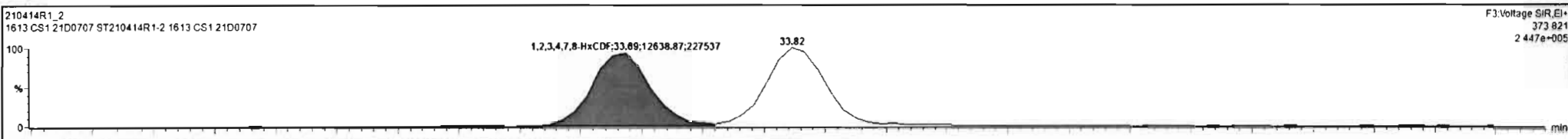


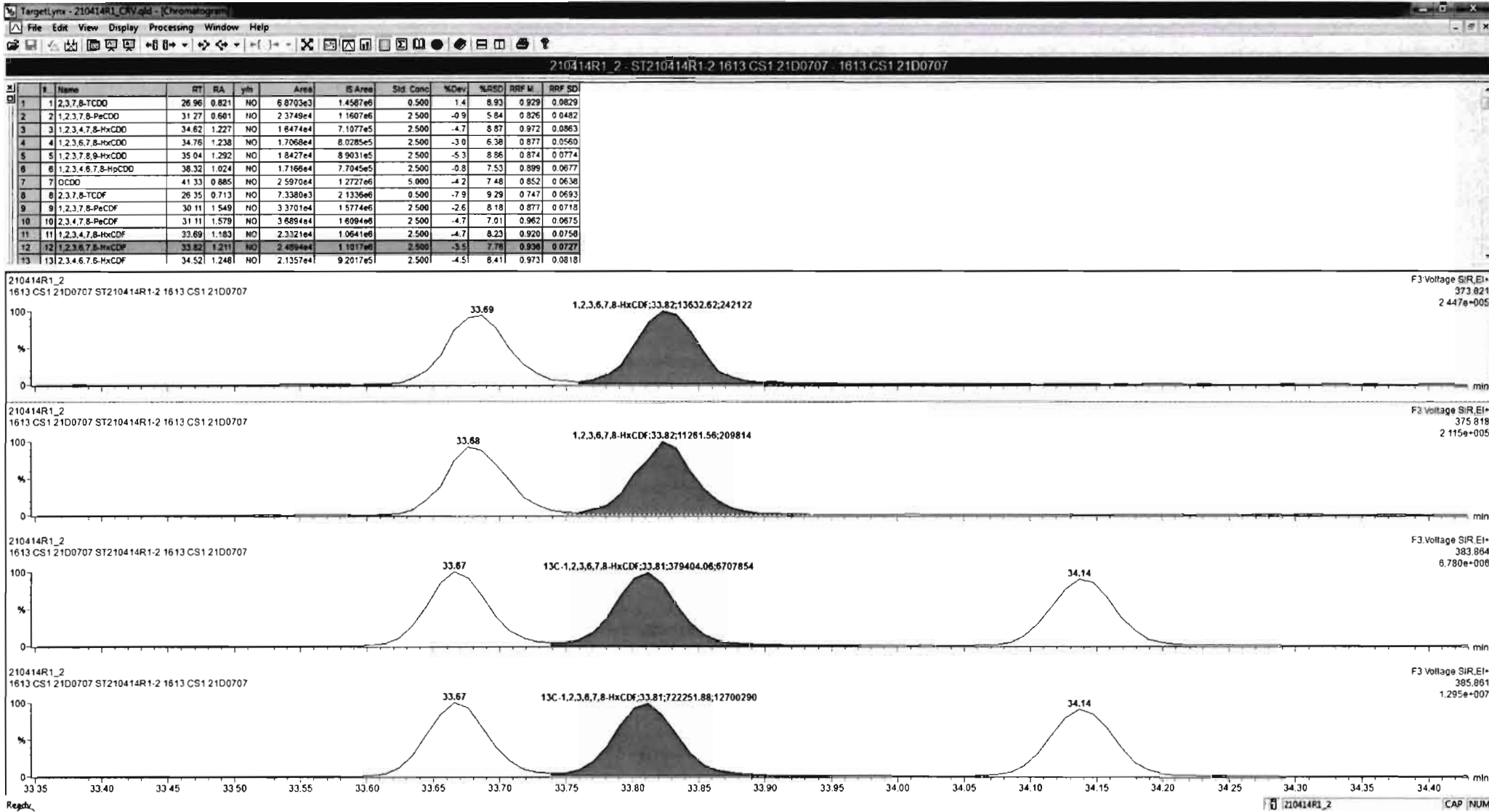
DPE3

210414R1_2



#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.96	0.821	NO	6.8703e3	1.4587e6	0.500	1.4	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.601	NO	2.3749e4	1.1607e6	2.500	-0.9	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.62	1.227	NO	1.6474e4	7.1077e5	2.500	-4.7	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.76	1.238	NO	1.7088e4	8.0285e5	2.500	-3.0	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.292	NO	1.8427e4	8.9031e5	2.500	-5.3	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HpCDD	36.32	1.024	NO	1.7166e4	7.7045e5	2.500	-0.8	7.53	0.899	0.0677
7	OCDD	41.33	0.885	NO	2.5970e4	1.2727e6	5.000	-4.2	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.713	NO	7.3380e3	2.1336e6	0.500	-7.9	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.549	NO	3.3701e4	1.5774e6	2.500	-2.6	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.579	NO	3.6894e4	1.6094e6	2.500	-4.7	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.0641e6	2.500	-4.7	8.23	0.920	0.0759
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	8.41	0.973	0.0818



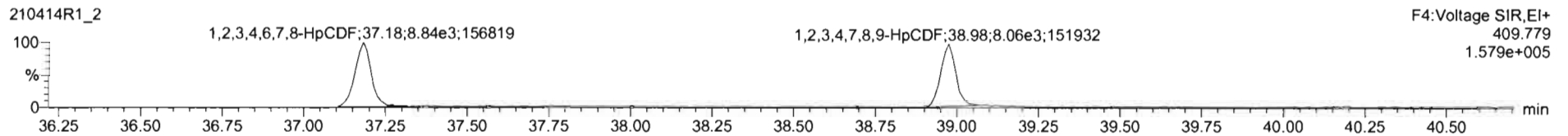
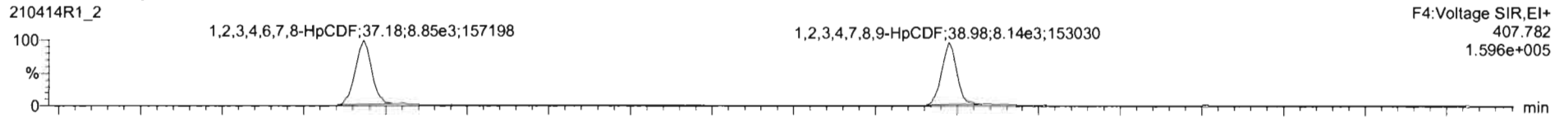


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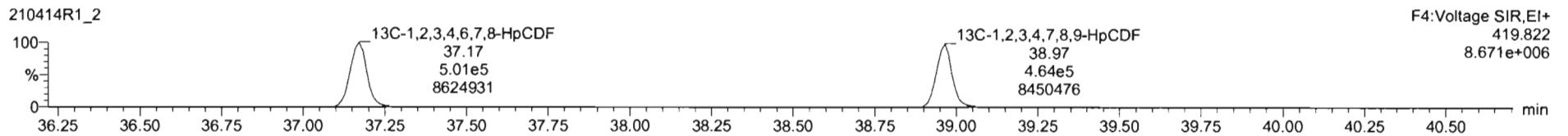
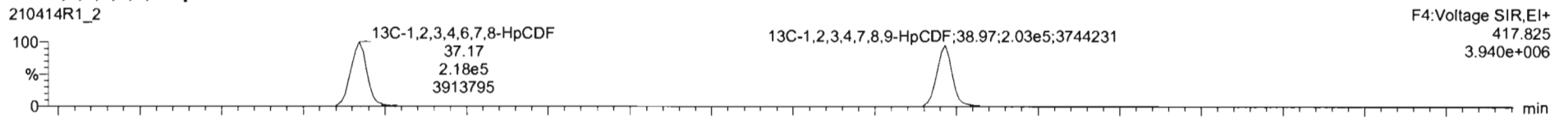
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

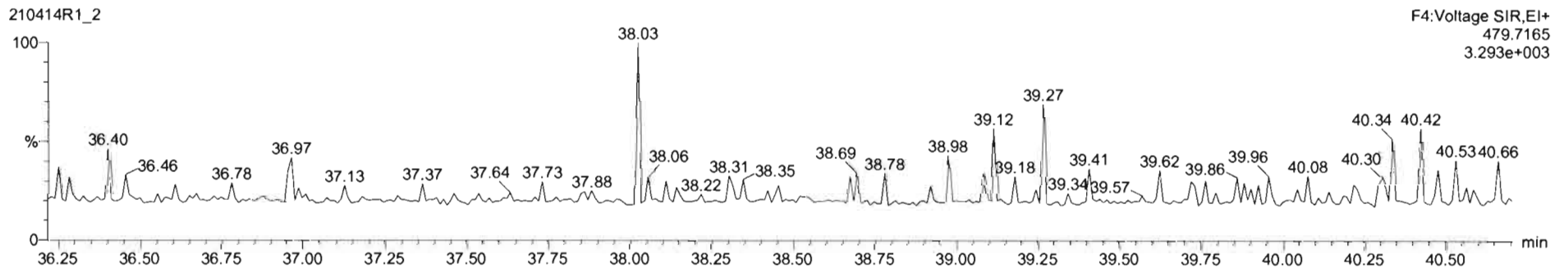
1,2,3,4,6,7,8-HpCDF



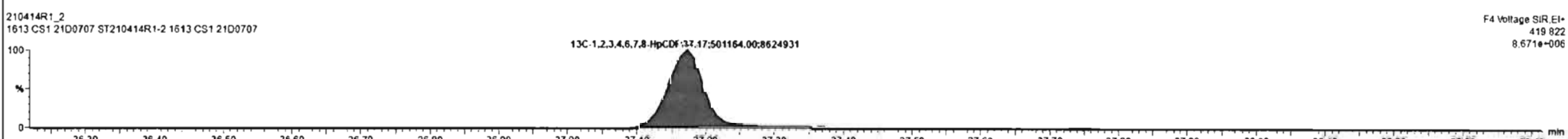
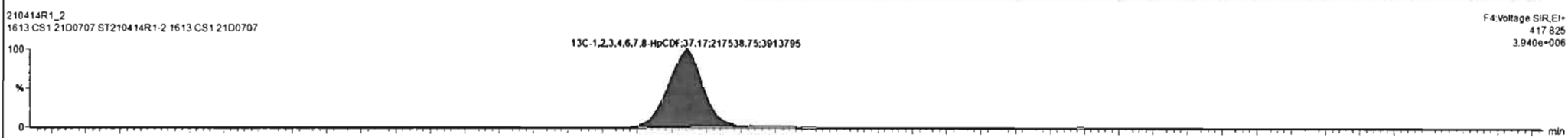
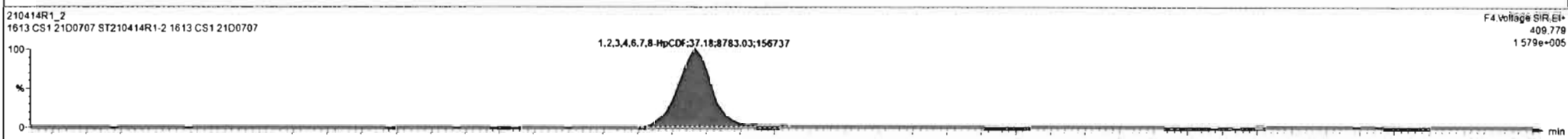
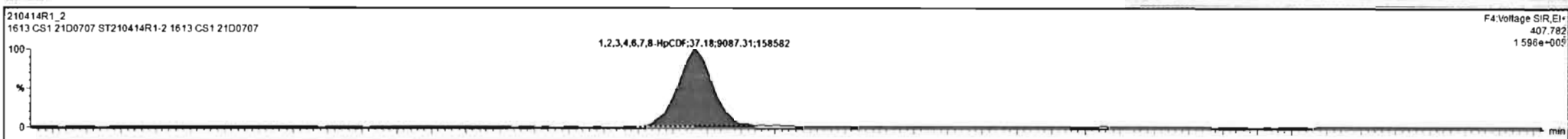
13C-1,2,3,4,6,7,8-HpCDF



DPE4



#	Name	RT	RA	Y/N	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
11	1,2,3,4,7,8-HxCDF	33.69	1.183	NO	2.3321e4	1.9641e6	2.500	-4.7	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.211	NO	2.4894e4	1.1017e6	2.500	-3.5	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.52	1.248	NO	2.1357e4	9.2017e5	2.500	-4.5	8.41	0.973	0.0818
14	1,2,3,7,8,9-HxCDF	35.61	1.159	NO	1.8506e4	8.2325e5	2.500	-4.3	8.34	0.940	0.0784
15	1,2,3,4,6,7,8-HpCDF	37.18	1.035	NO	1.7870e4	7.1870e5	2.500	-5.1	8.33	1.05	0.0873
16	1,2,3,4,7,8,9-HpCDF	38.98	1.010	NO	1.6198e4	6.9955e5	2.500	-7.0	8.40	1.05	0.0879
17	OCDF	41.67	0.878	NO	2.7542e4	1.4722e6	5.000	-3.0	7.94	0.771	0.0612
18	13C-2,3,7,8-TCDD	26.93	0.772	NO	1.4587e6	1.3814e6	100.000	-4.3	8.43	1.10	0.0930
19	13C-1,2,3,7,8-PeCDD	31.26	0.625	NO	1.1607e6	1.3814e6	100.000	-2.7	10.5	0.864	0.0903
20	13C-1,2,3,4,7,8-HxCDD	34.61	1.282	NO	7.1077e5	1.0053e6	100.000	-5.2	8.73	0.746	0.0651
21	13C-1,2,3,6,7,8-HxCDD	34.73	1.263	NO	8.0285e5	1.0053e6	100.000	-5.7	9.12	0.847	0.0773
22	13C-1,2,3,7,8-HxCDD	35.03	1.257	NO	8.9031e5	1.0053e6	100.000	2.0	8.65	0.868	0.0751
23	13C-1,2,3,4,6,7,8-HpCDD	38.29	1.047	NO	7.7045e5	1.0053e6	100.000	15.4	10.1	0.864	0.0671

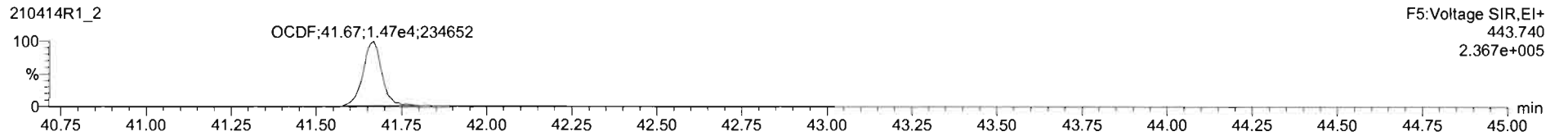
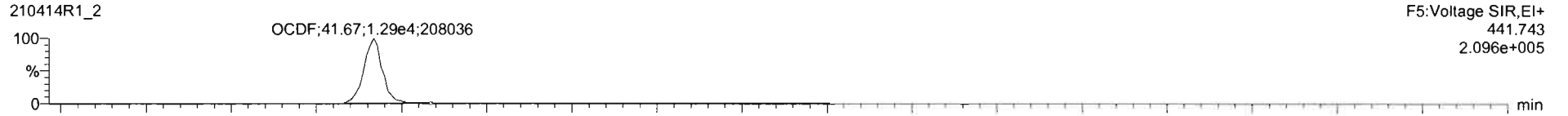


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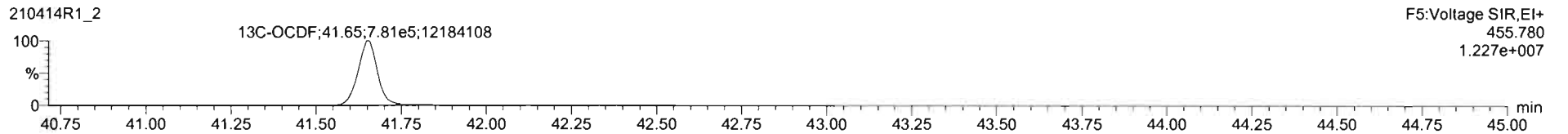
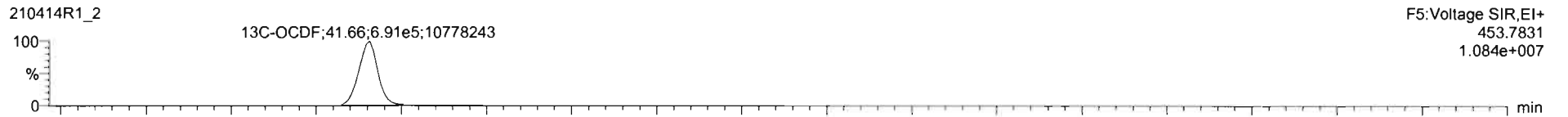
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_2, Date: 14-Apr-2021, Time: 10:37:34, ID: ST210414R1-2 1613 CS1 21D0707, Description: 1613 CS1 21D0707

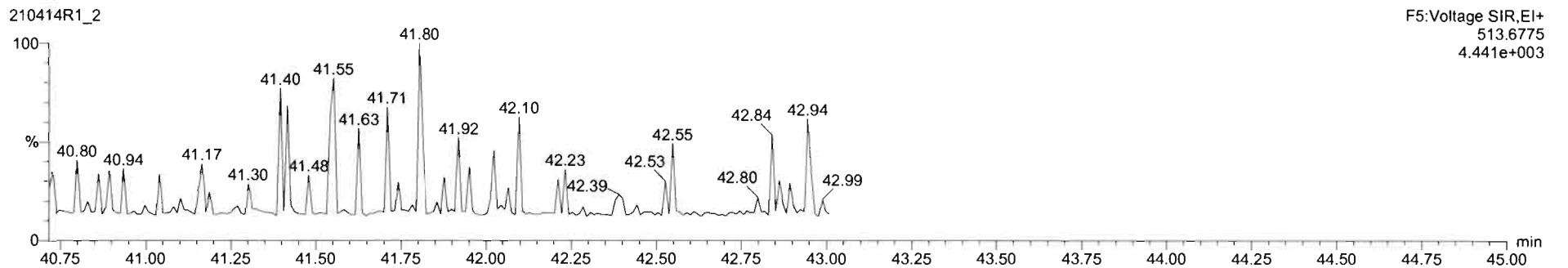
OCDF



13C-OCDF



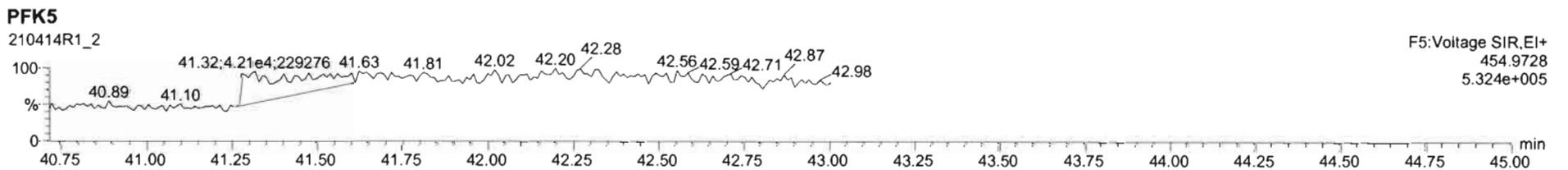
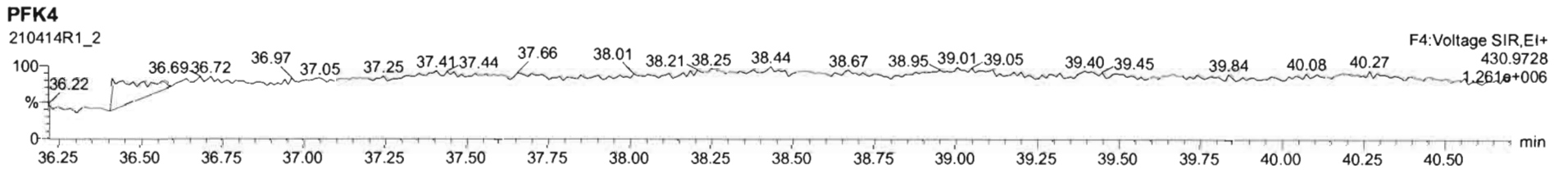
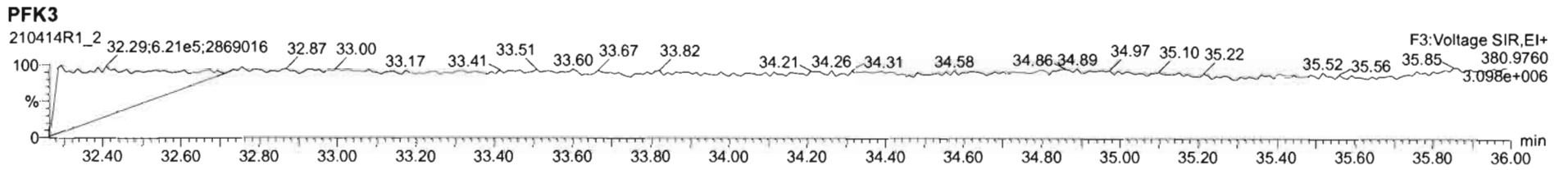
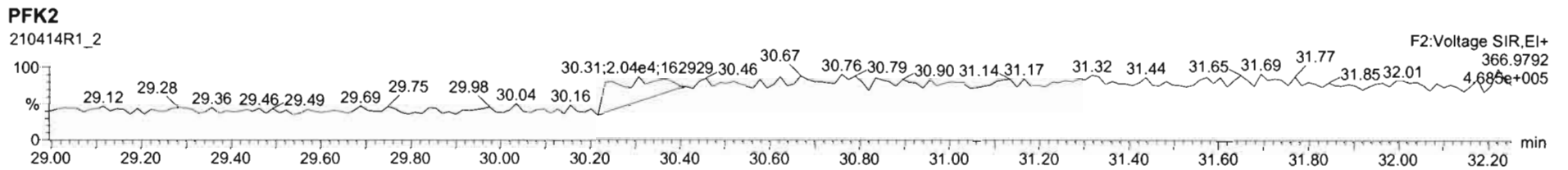
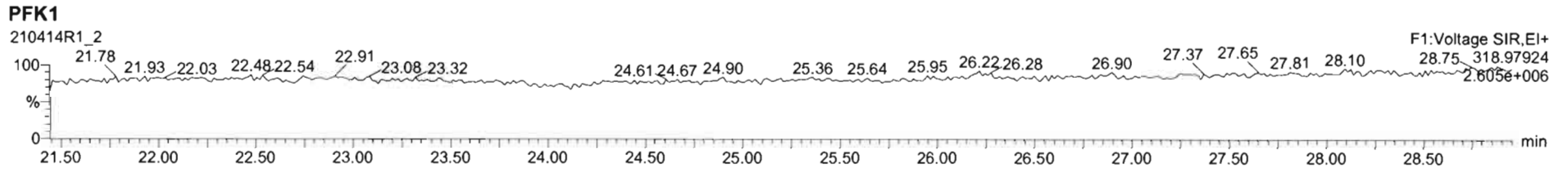
DPE5



Dataset: Untitled

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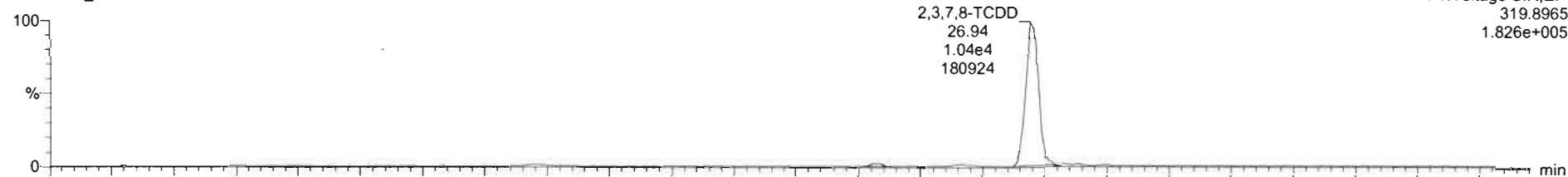
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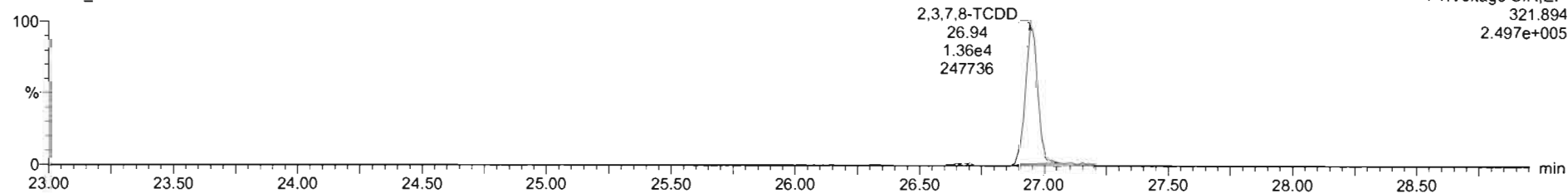
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2,3,7,8-TCDD

210414R1_3

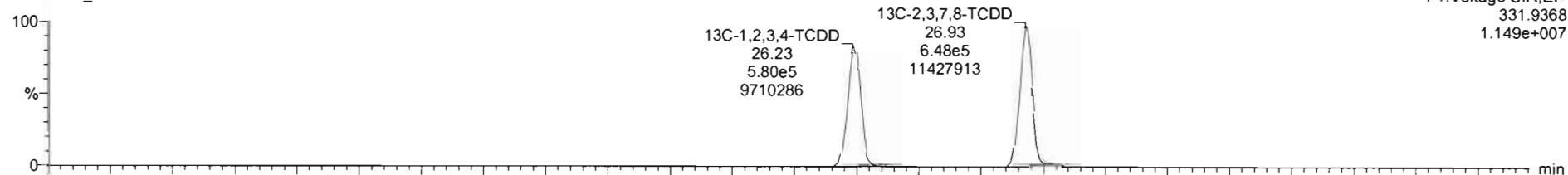


210414R1_3

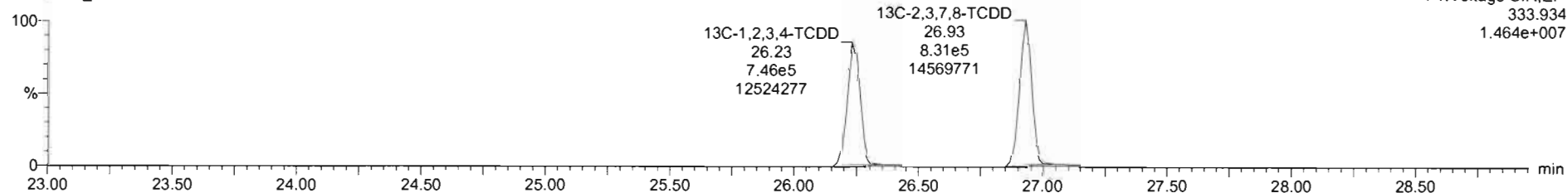


13C-2,3,7,8-TCDD

210414R1_3



210414R1_3



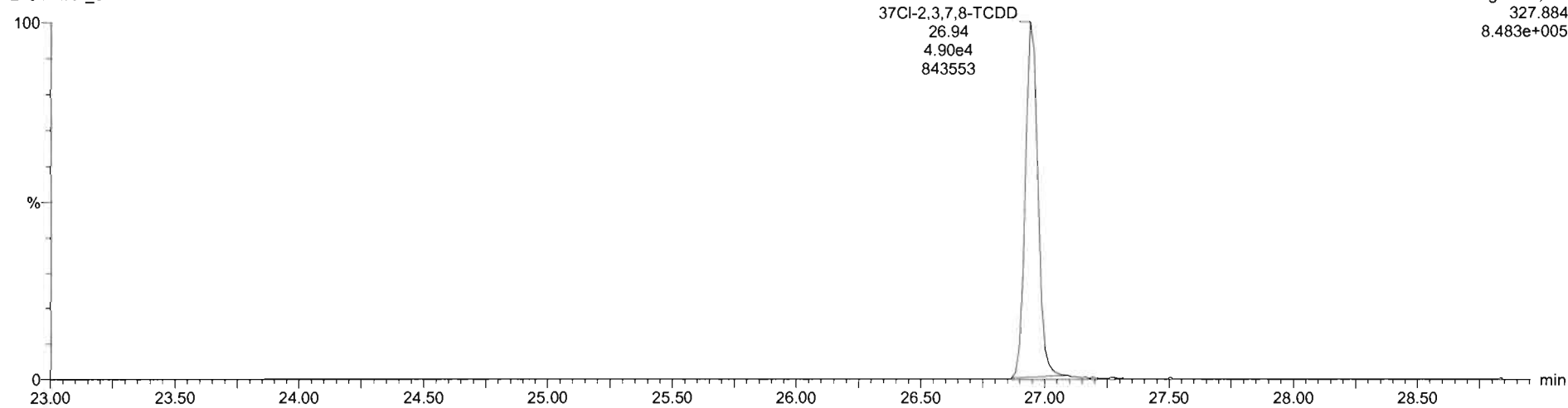
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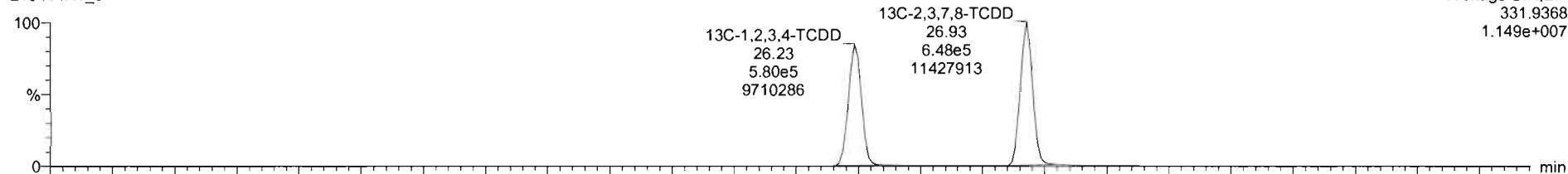
37Cl-2,3,7,8-TCDD

210414R1_3

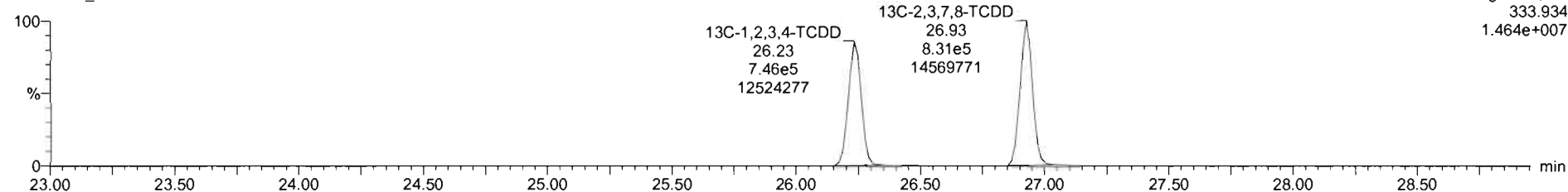


13C-1,2,3,4-TCDD

210414R1_3



210414R1_3



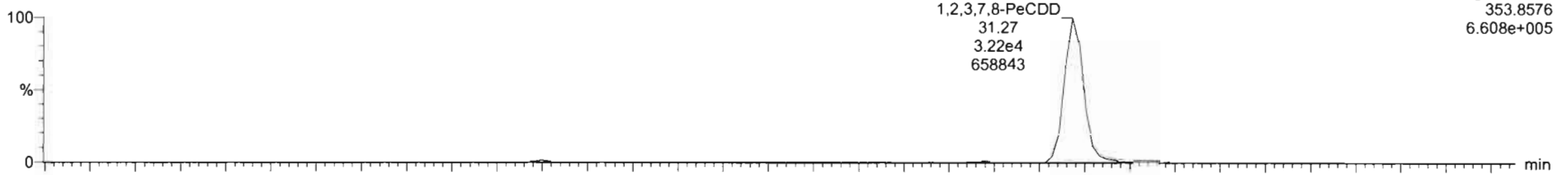
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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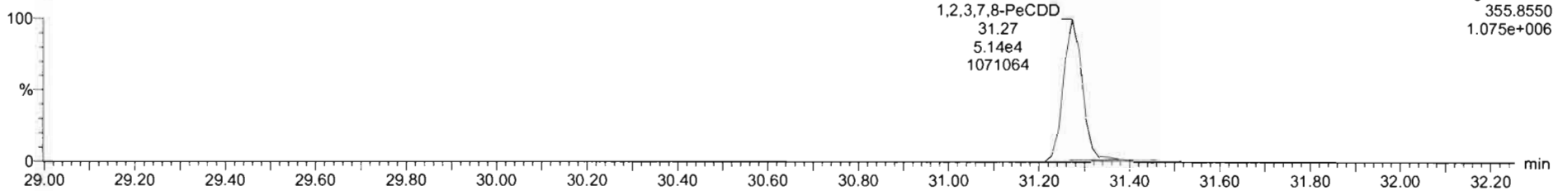
1,2,3,7,8-PeCDD

210414R1_3



F2:Voltage SIR,EI+
353.8576
6.608e+005

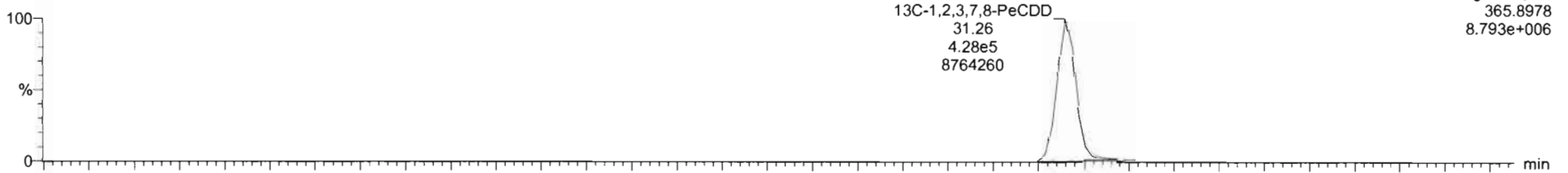
210414R1_3



F2:Voltage SIR,EI+
355.8550
1.075e+006

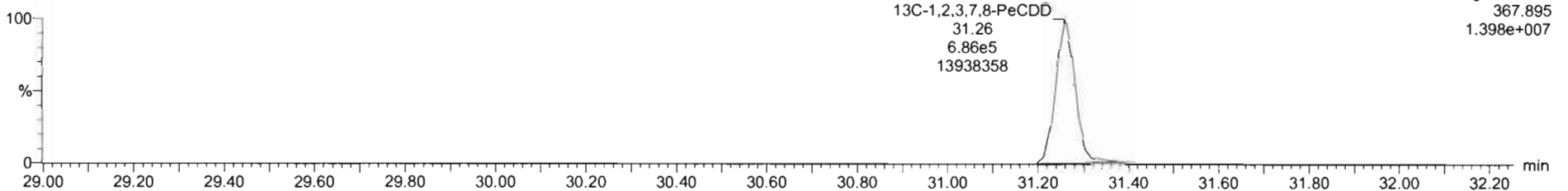
13C-1,2,3,7,8-PeCDD

210414R1_3



F2:Voltage SIR,EI+
365.8978
8.793e+006

210414R1_3



F2:Voltage SIR,EI+
367.895
1.398e+007

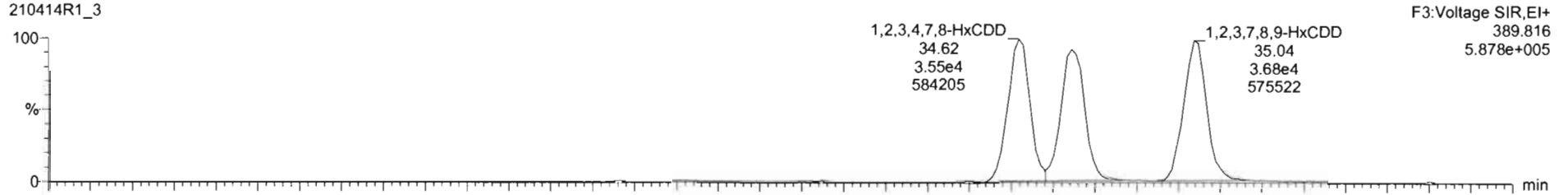
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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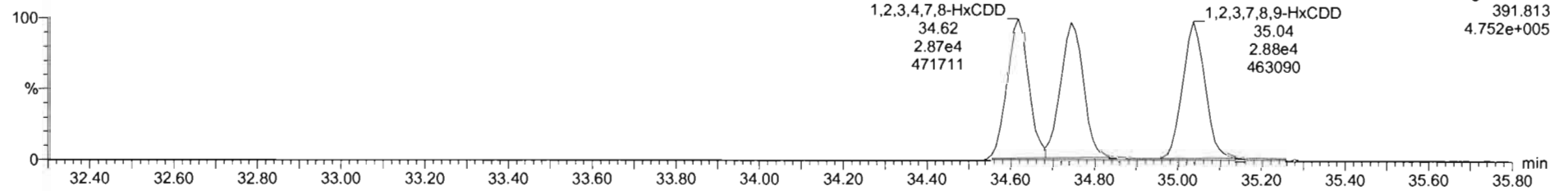
1,2,3,4,7,8-HxCDD

210414R1_3



F3:Voltage SIR,EI+
389.816
5.878e+005

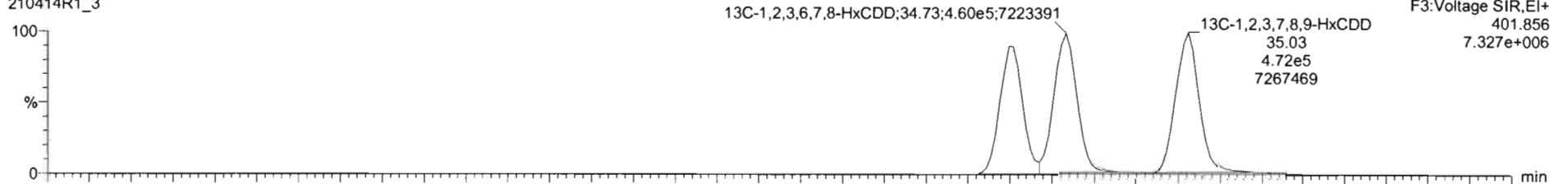
210414R1_3



F3:Voltage SIR,EI+
391.813
4.752e+005

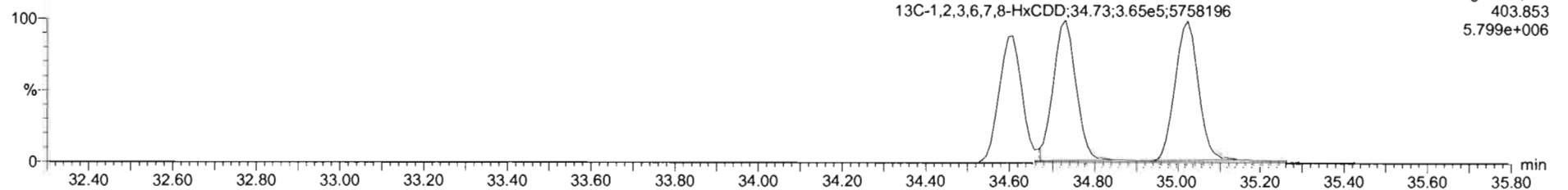
13C-1,2,3,4,7,8-HxCDD

210414R1_3



F3:Voltage SIR,EI+
401.856
7.327e+006

210414R1_3



F3:Voltage SIR,EI+
403.853
5.799e+006

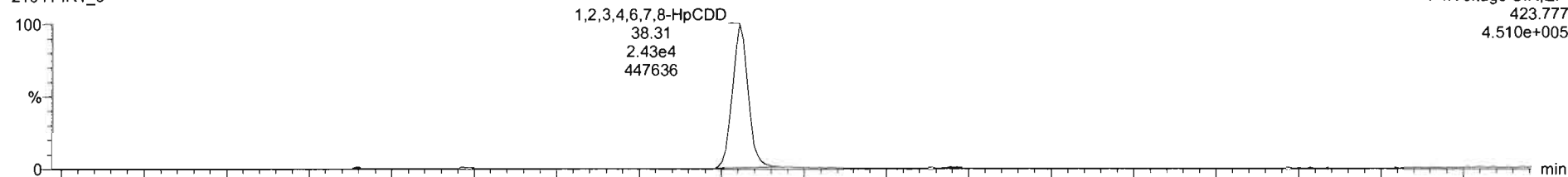
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

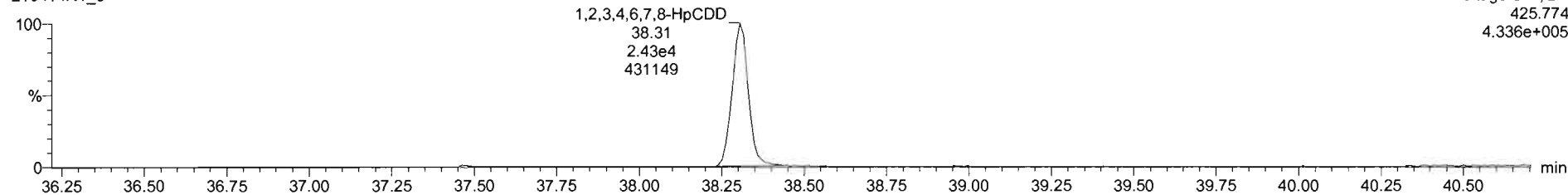
1,2,3,4,6,7,8-HpCDD

210414R1_3



F4:Voltage SIR,EI+
423.777
4.510e+005

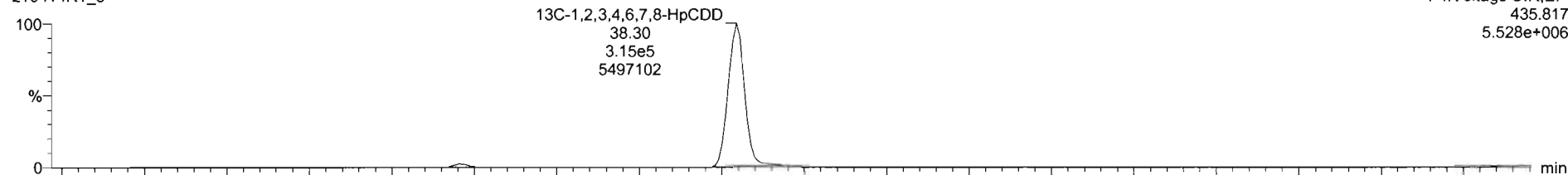
210414R1_3



F4:Voltage SIR,EI+
425.774
4.336e+005

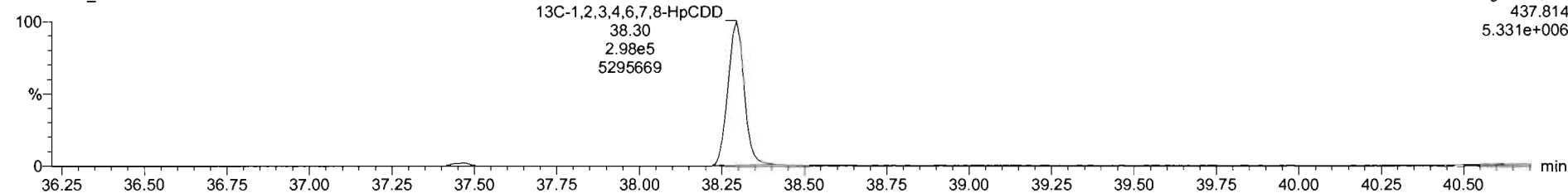
13C-1,2,3,4,6,7,8-HpCDD

210414R1_3



F4:Voltage SIR,EI+
435.817
5.528e+006

210414R1_3



F4:Voltage SIR,EI+
437.814
5.331e+006

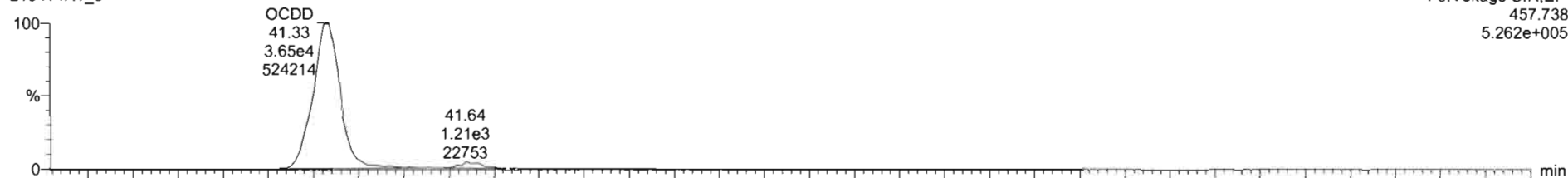
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

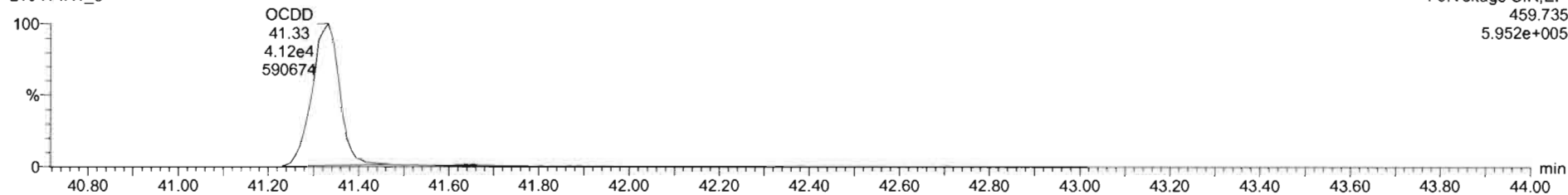
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OCDD

210414R1_3

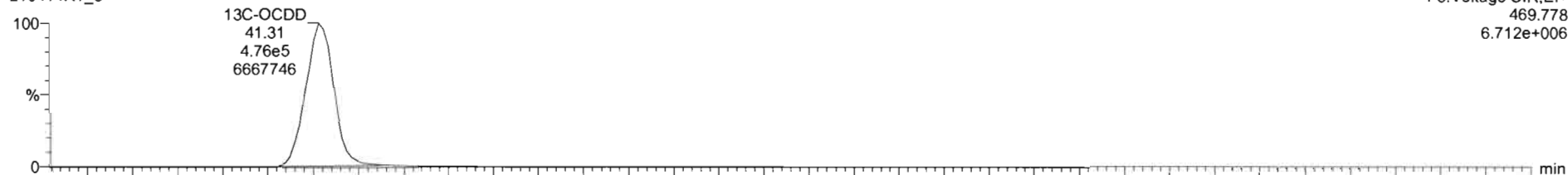


210414R1_3

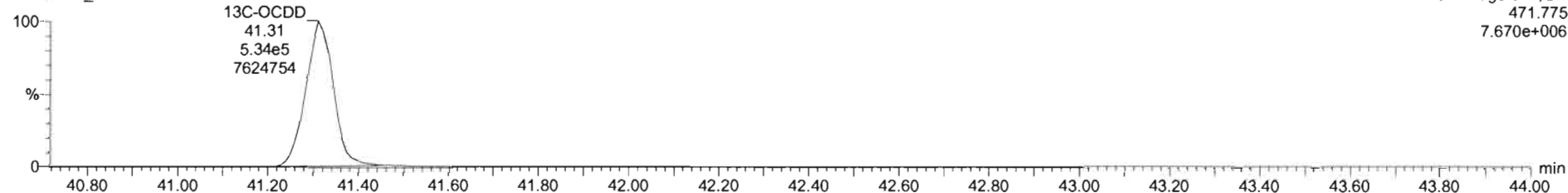


13C-OCDD

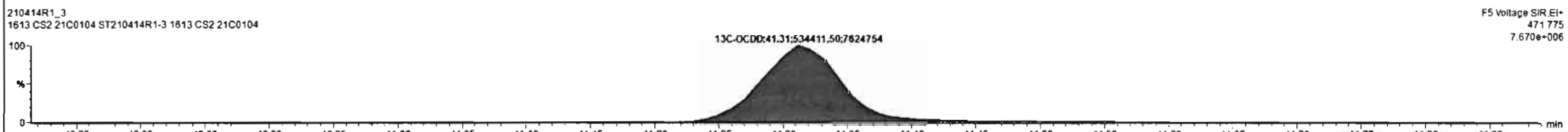
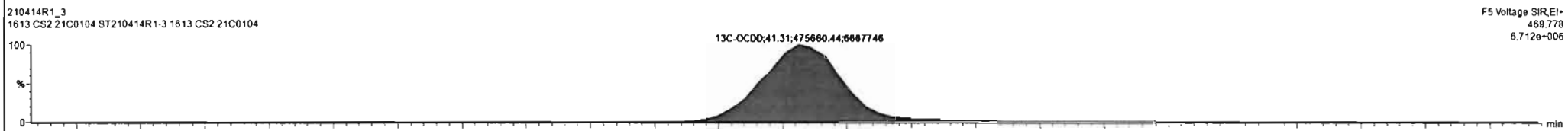
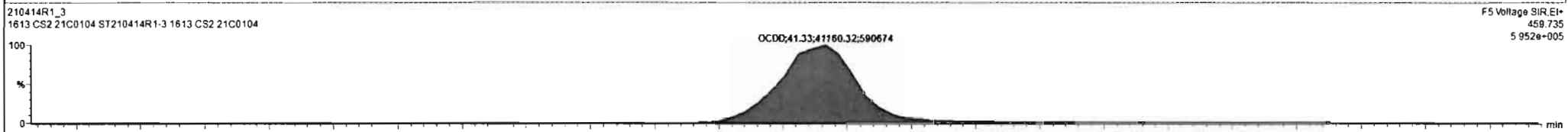
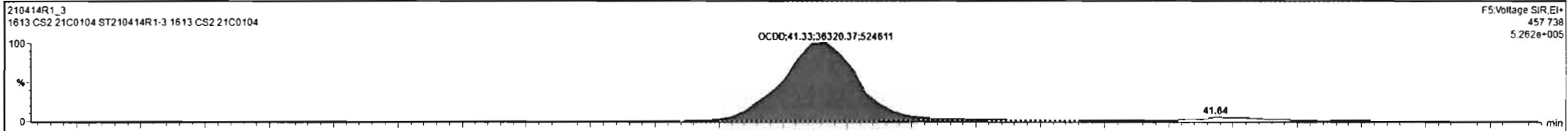
210414R1_3



210414R1_3



#	Name	RT	RA	Yn	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.94	0.762	NO	2.4014e4	1.4792e6	2.000	-12.6	8.93	0.929	0.0829
2	1,2,3,7,8-PeCDD	31.27	0.628	NO	8.3608e4	1.1141e6	10.000	-9.1	5.84	0.826	0.0482
3	1,2,3,4,7,8-HxCDD	34.62	1.239	NO	6.4208e4	7.4024e5	10.000	-10.8	8.87	0.972	0.0863
4	1,2,3,6,7,8-HxCDD	34.74	1.229	NO	6.5250e4	8.2514e5	10.000	-9.8	6.38	0.877	0.0560
5	1,2,3,7,8,9-HxCDD	35.04	1.280	NO	6.5625e4	8.4455e5	10.000	-11.1	8.86	0.874	0.0774
6	1,2,3,4,6,7,8-HxCDD	38.31	1.003	NO	4.9610e4	6.1293e5	10.000	-11.8	7.53	0.899	0.0877
7	OCDD	41.33	0.882	NO	7.7481e4	1.0101e6	20.000	-10.0	7.48	0.852	0.0638
8	2,3,7,8-TCDF	26.35	0.785	NO	2.6406e4	1.9981e6	2.000	-11.5	9.29	0.747	0.0693
9	1,2,3,7,8-PeCDF	30.11	1.623	NO	1.2008e5	1.4874e6	10.000	-8.0	8.18	0.877	0.0718
10	2,3,4,7,8-PeCDF	31.11	1.523	NO	1.2921e5	1.4756e6	10.000	-8.0	7.01	0.962	0.0675
11	1,2,3,4,7,8-HxCDF	33.69	1.227	NO	7.9886e4	9.5787e5	10.000	-9.4	8.23	0.920	0.0758
12	1,2,3,6,7,8-HxCDF	33.82	1.218	NO	8.7203e4	1.0114e6	10.000	-7.9	7.76	0.936	0.0727
13	2,3,4,6,7,8-HxCDF	34.51	1.231	NO	7.8454e4	8.8543e5	10.000	-8.9	8.41	0.973	0.0818



Regdy [210414R1_3] CAP NUM

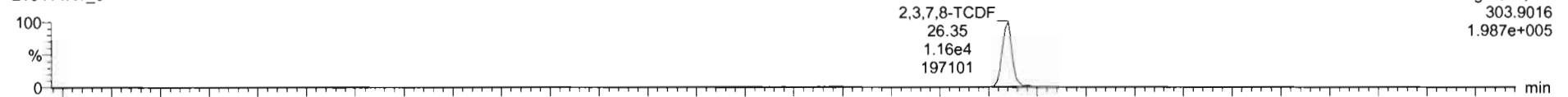
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

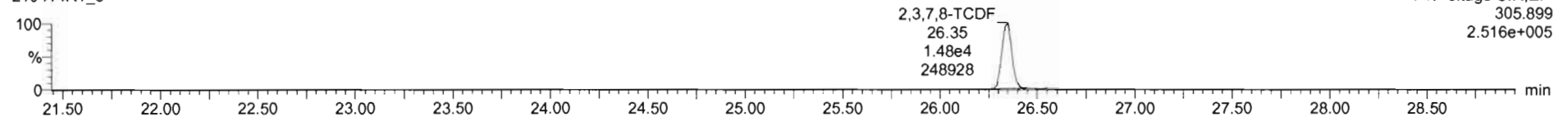
2,3,7,8-TCDF

210414R1_3



F1:Voltage SIR,EI+
303.9016
1.987e+005

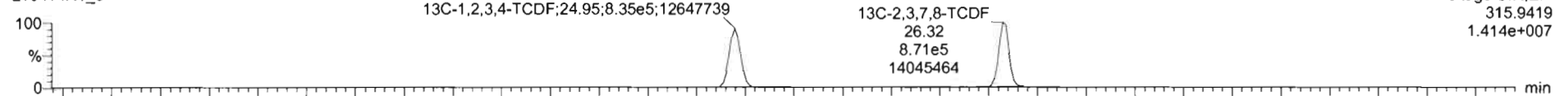
210414R1_3



F1:Voltage SIR,EI+
305.899
2.516e+005

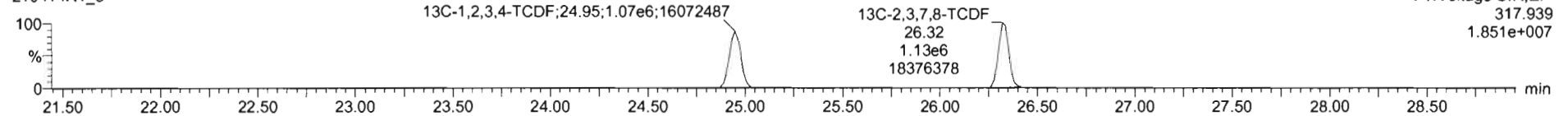
13C-2,3,7,8-TCDF

210414R1_3



F1:Voltage SIR,EI+
315.9419
1.414e+007

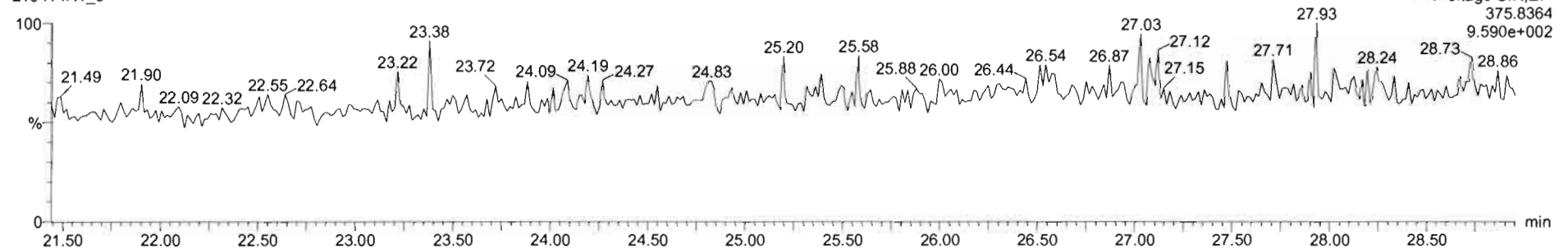
210414R1_3



F1:Voltage SIR,EI+
317.939
1.851e+007

DPE1

210414R1_3



F1:Voltage SIR,EI+
375.8364
9.590e+002

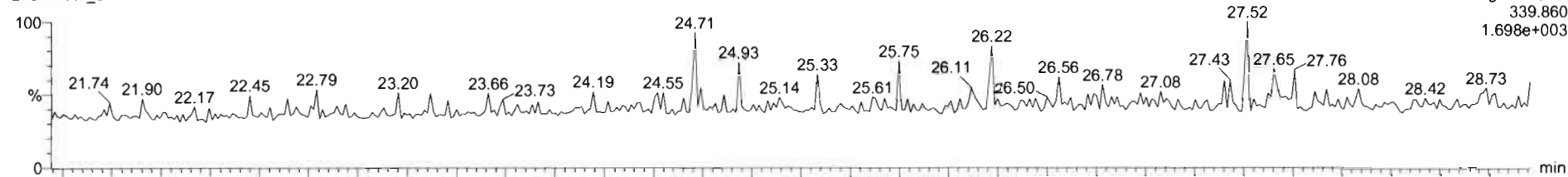
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

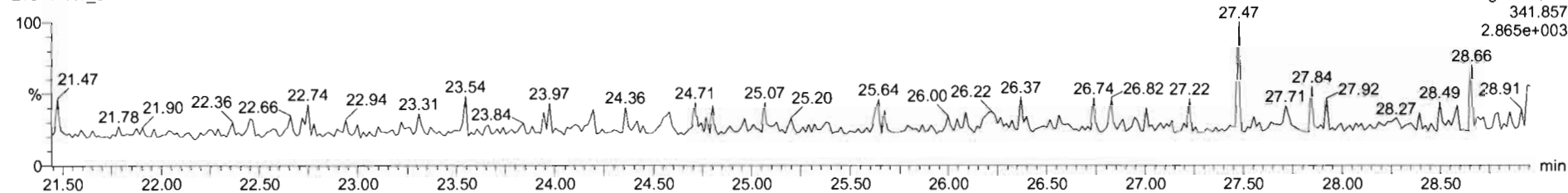
Name: 210414R1_3, Date: 14-Apr-2021, Time: 11:26:41, ID: ST210414R1-3 1613 CS2 21C0104, Description: 1613 CS2 21C0104

1st Func. Penta-Furans

210414R1_3

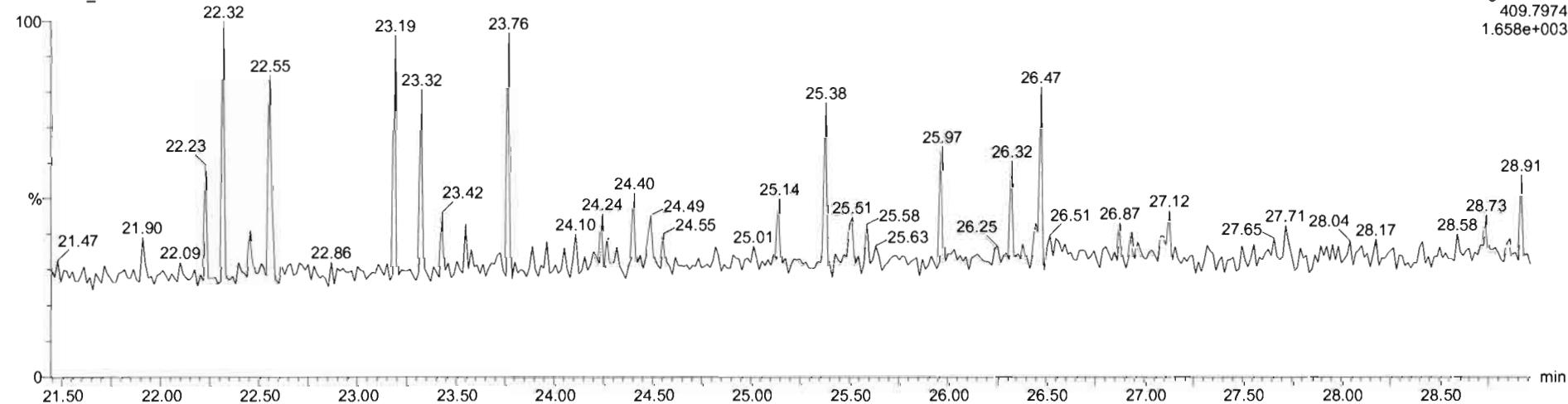


210414R1_3



DPE6

210414R1_3



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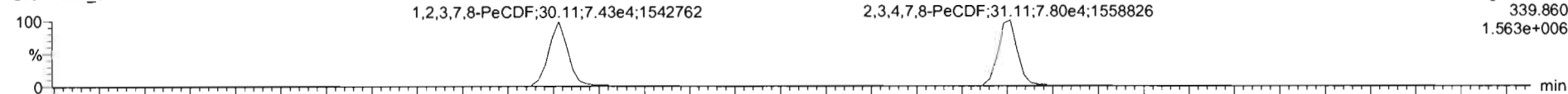
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

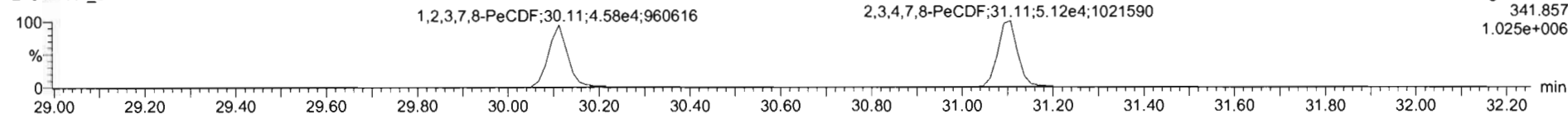
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1,2,3,7,8-PeCDF

210414R1_3

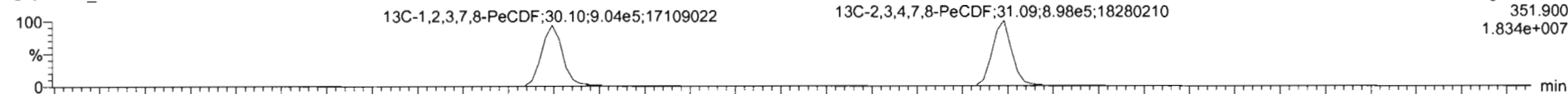


210414R1_3

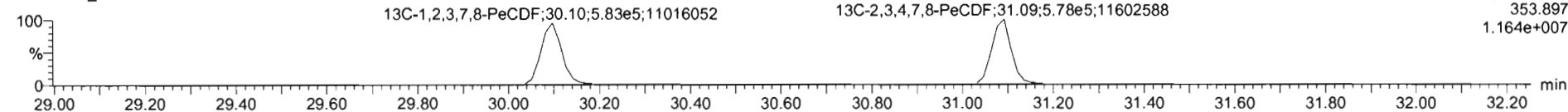


13C-1,2,3,7,8-PeCDF

210414R1_3

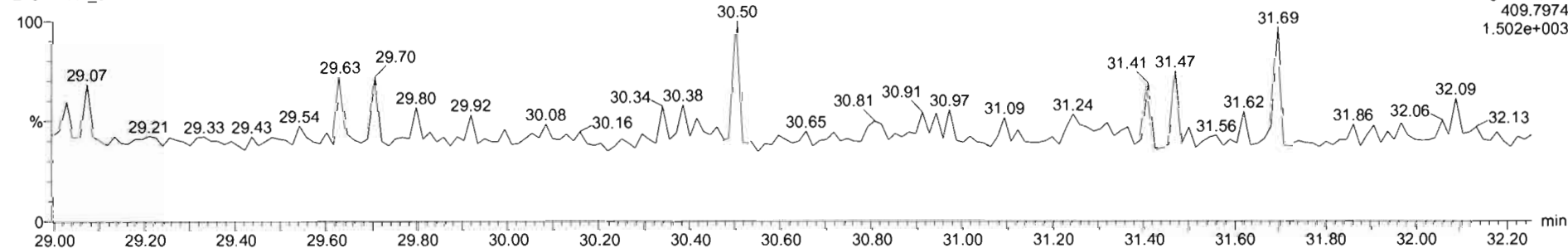


210414R1_3



DPE2

210414R1_3



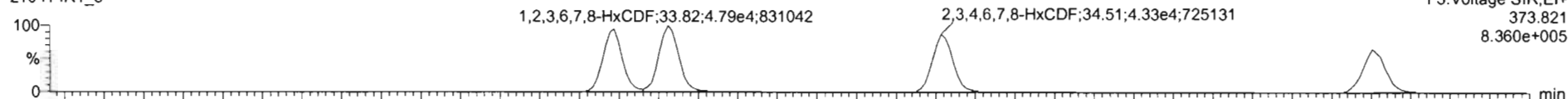
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

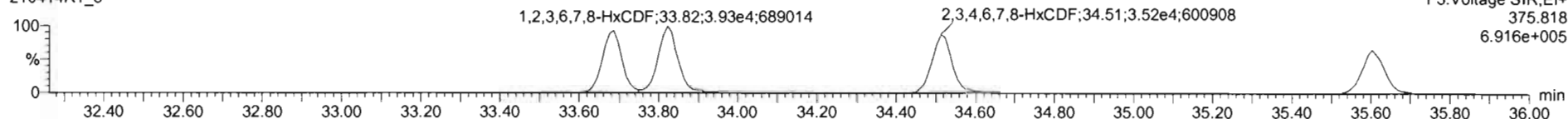
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1,2,3,4,7,8-HxCDF

210414R1_3

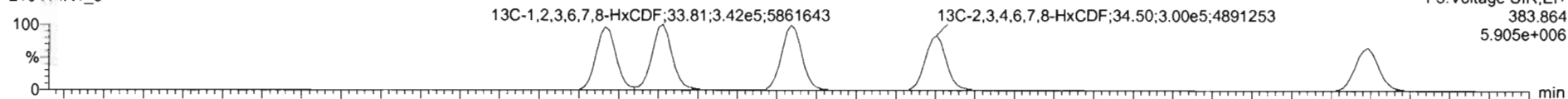


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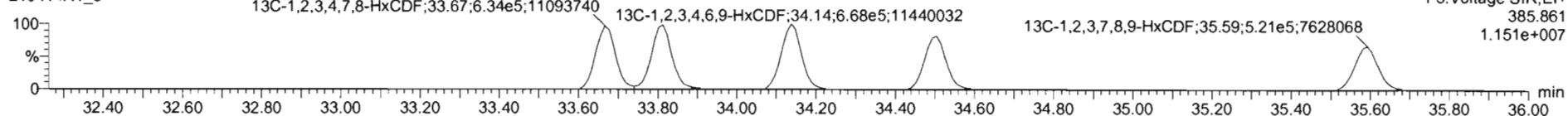


13C-1,2,3,4,7,8-HxCDF

210414R1_3

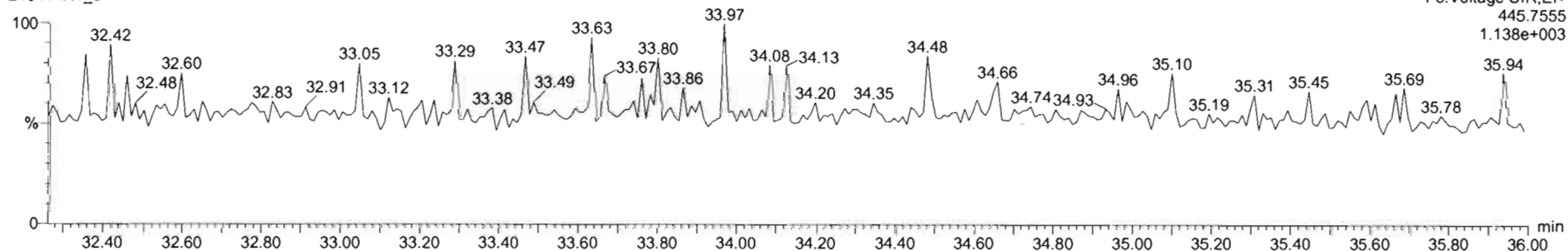


210414R1_3



DPE3

210414R1_3



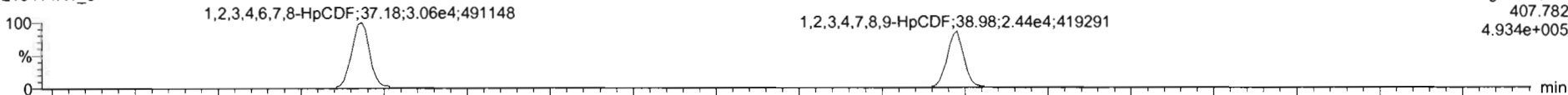
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

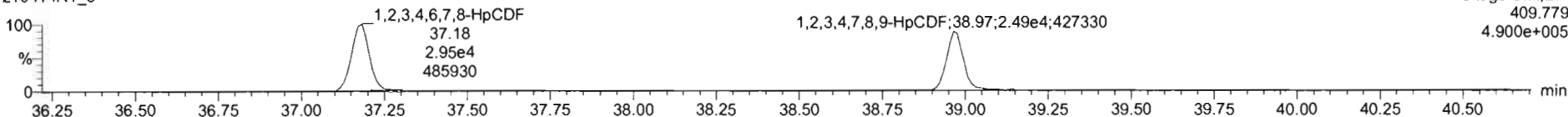
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1,2,3,4,6,7,8-HpCDF

210414R1_3

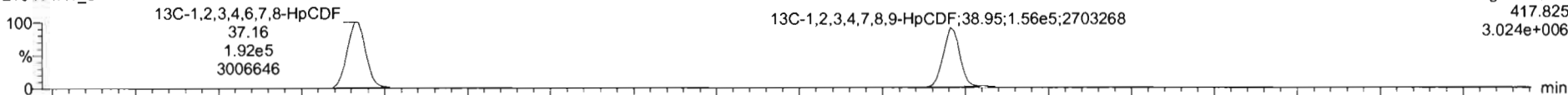


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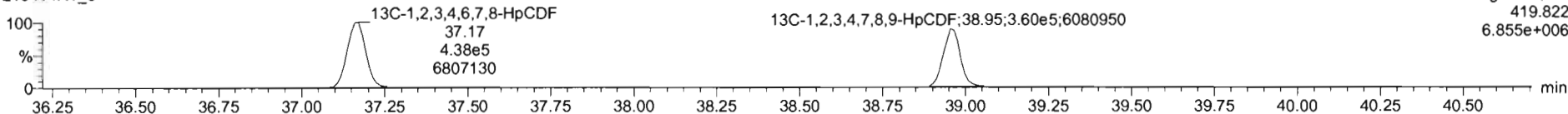


13C-1,2,3,4,6,7,8-HpCDF

210414R1_3

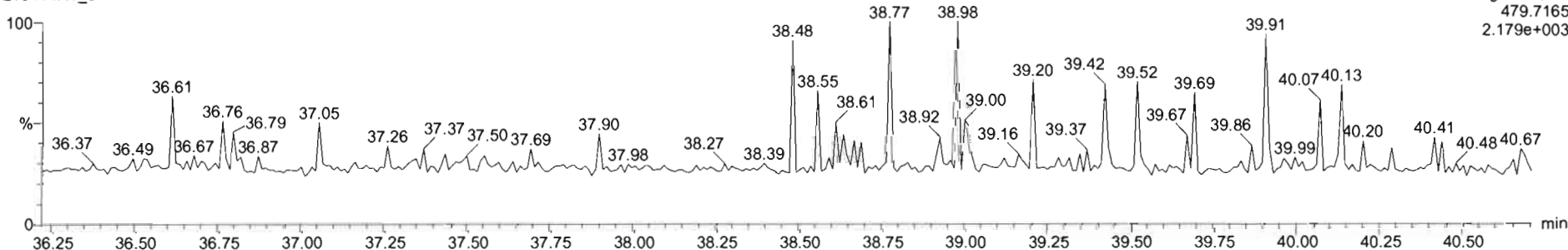


210414R1_3



DPE4

210414R1_3



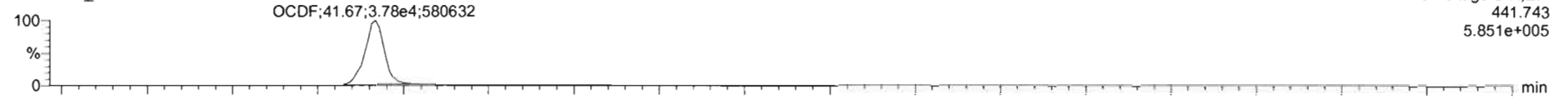
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

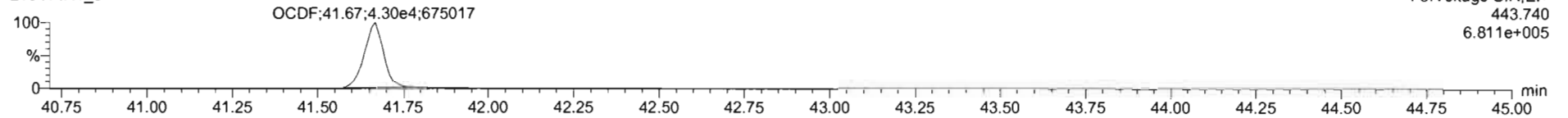
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OCDF

210414R1_3

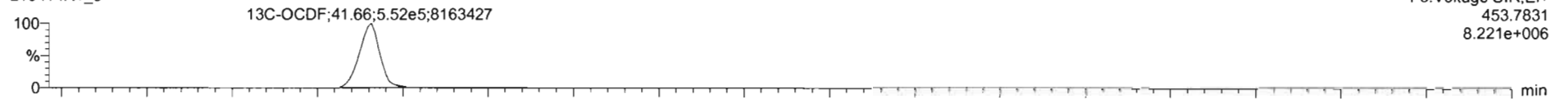


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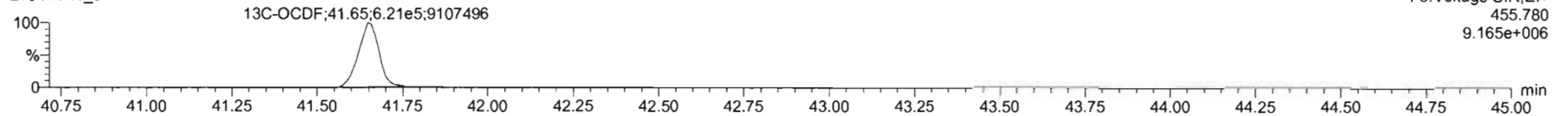


13C-OCDF

210414R1_3

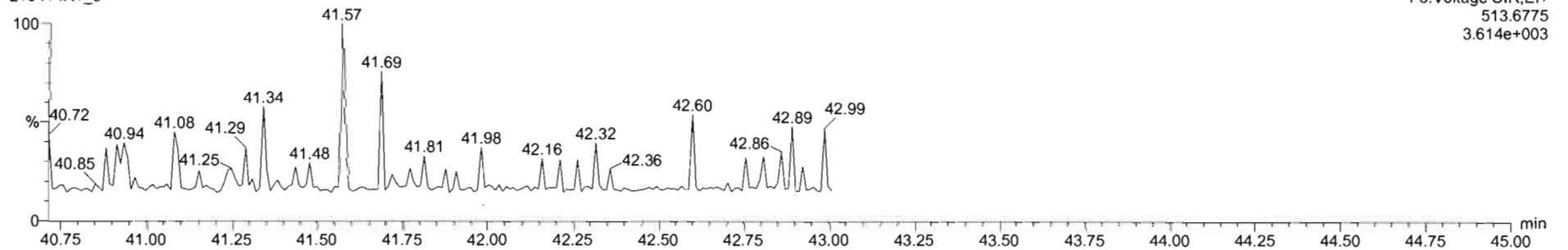


210414R1_3



DPE5

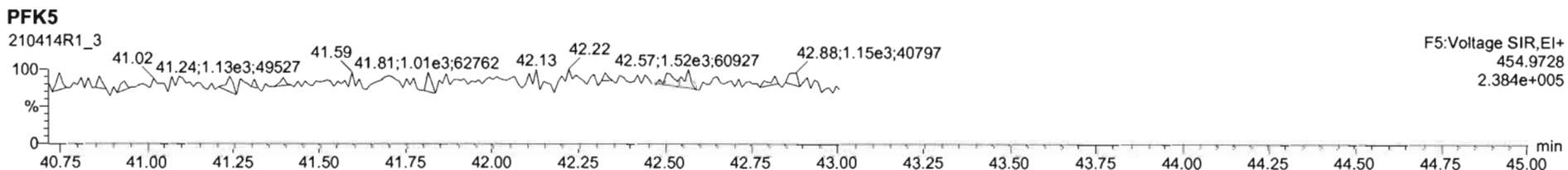
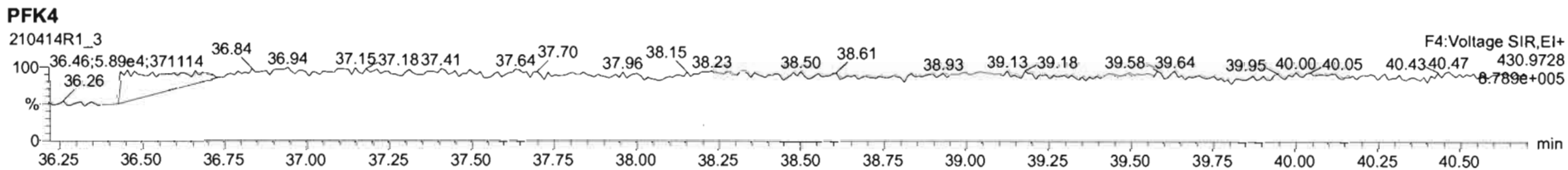
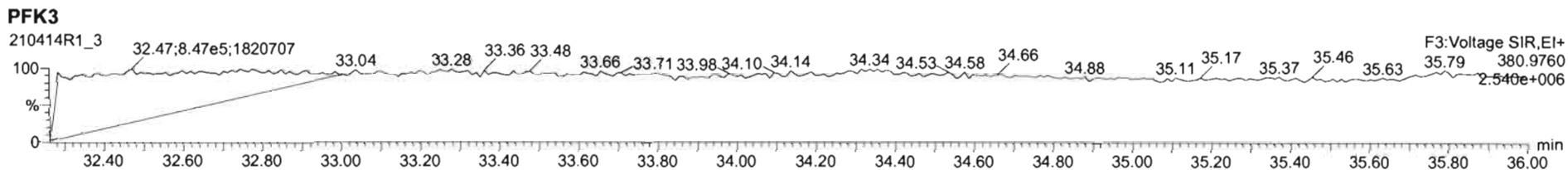
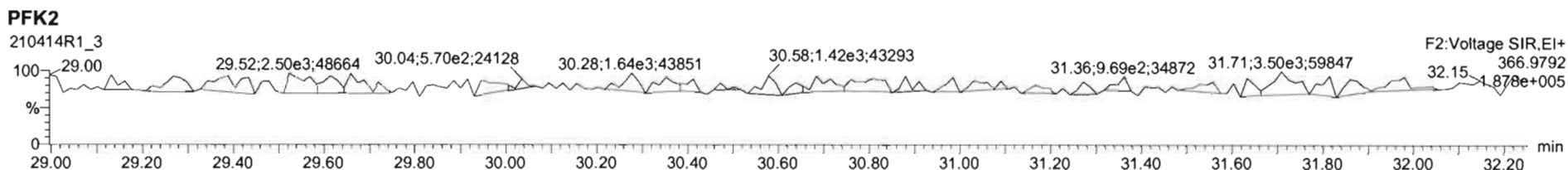
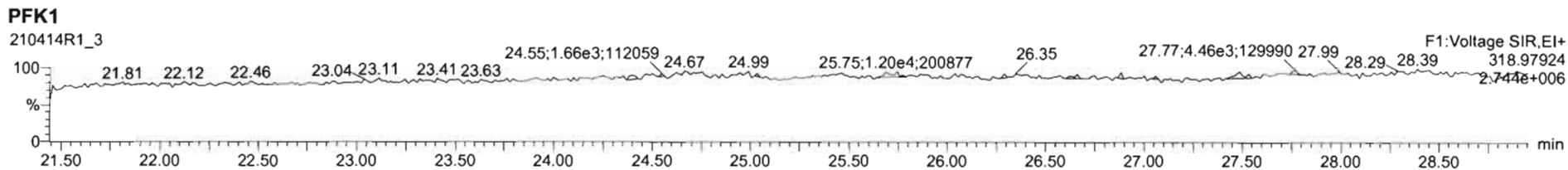
210414R1_3



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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
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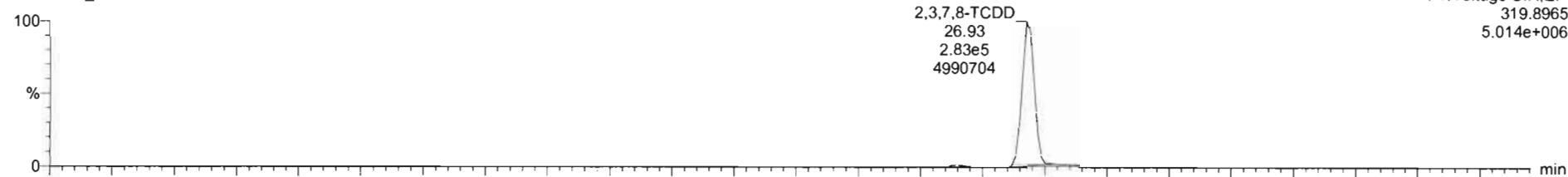
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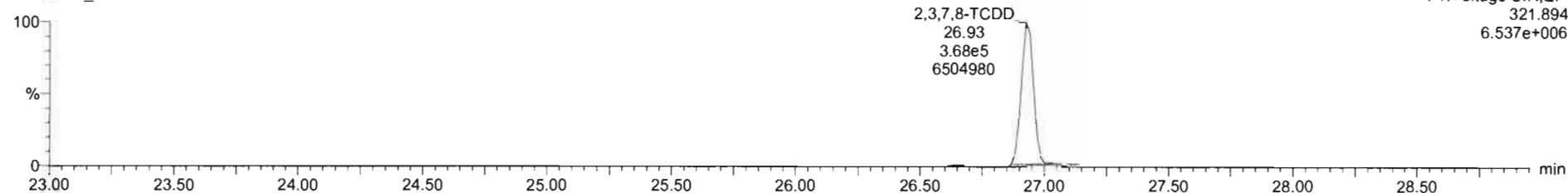
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2,3,7,8-TCDD

210414R1_4

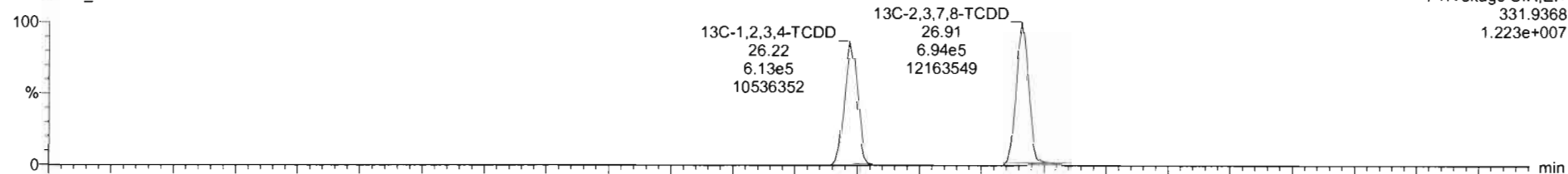


210414R1_4

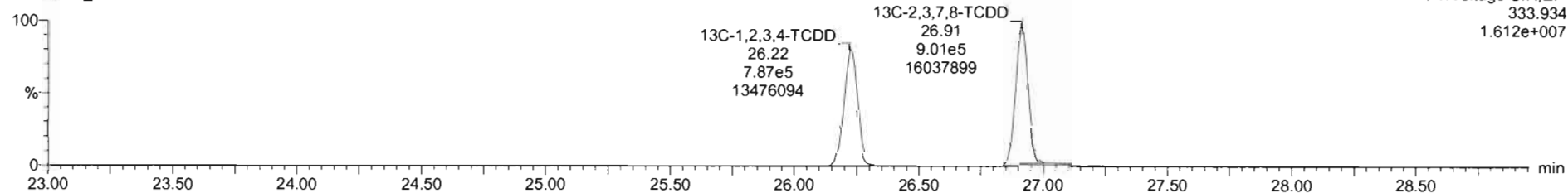


13C-2,3,7,8-TCDD

210414R1_4



210414R1_4



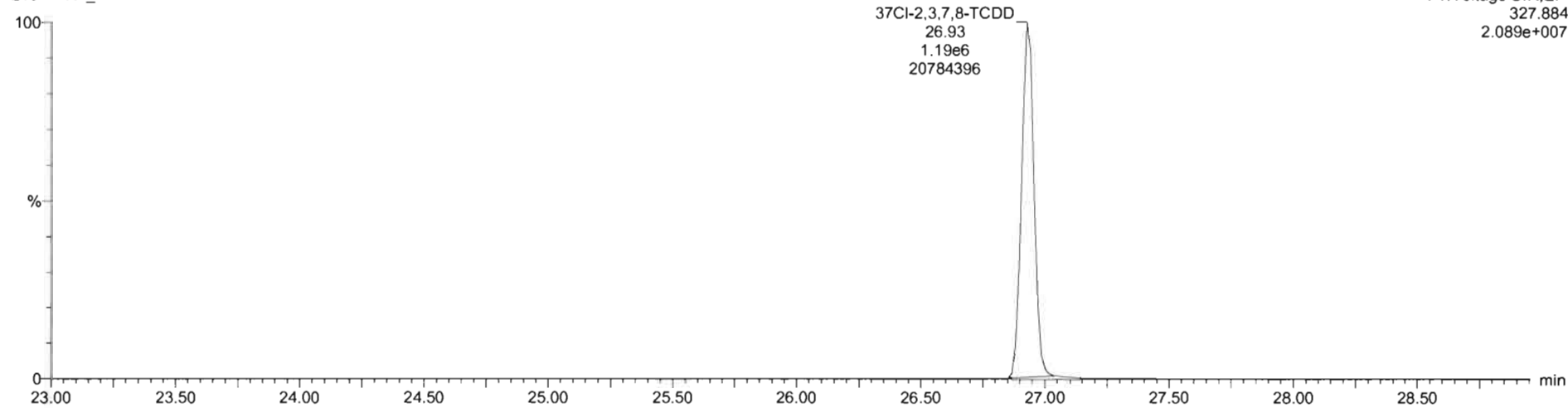
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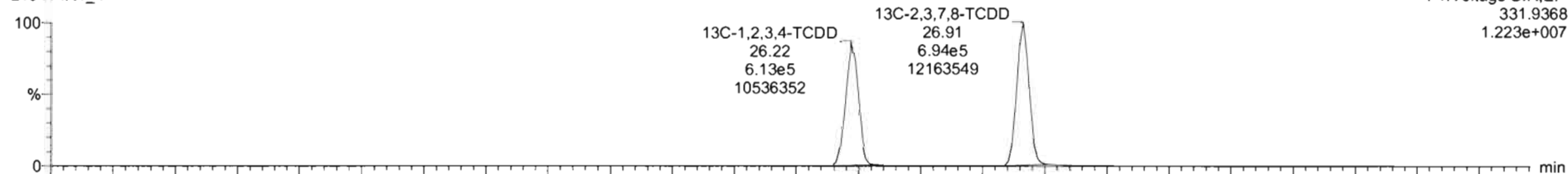
37Cl-2,3,7,8-TCDD

210414R1_4

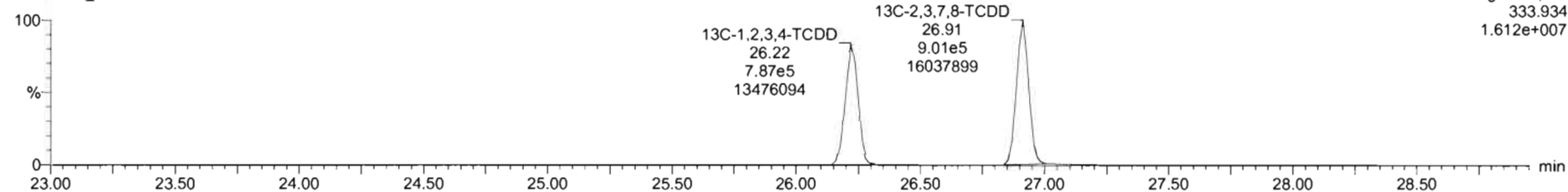


13C-1,2,3,4-TCDD

210414R1_4



210414R1_4



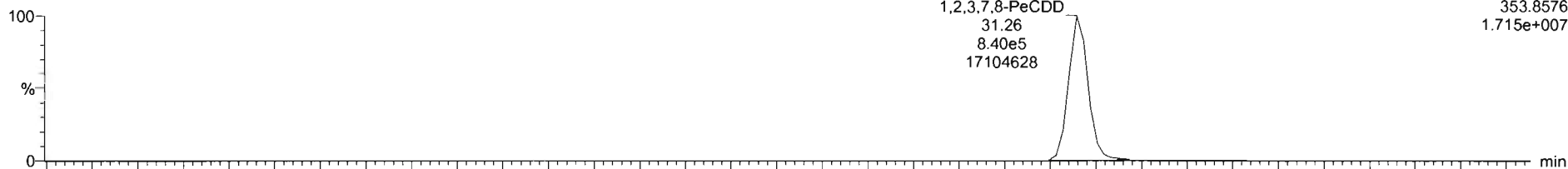
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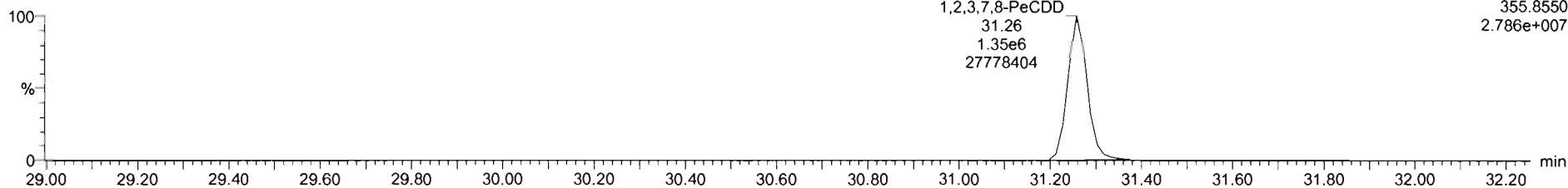
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1,2,3,7,8-PeCDD

210414R1_4

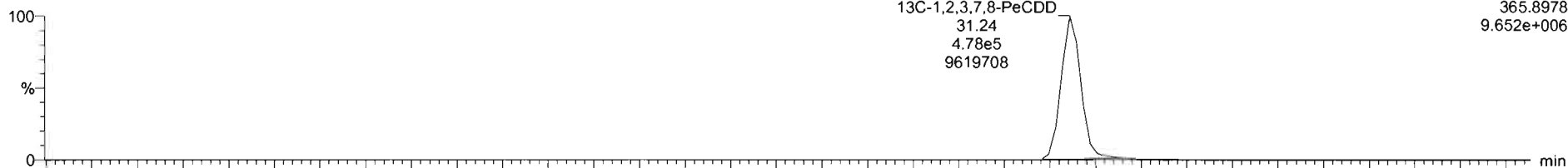


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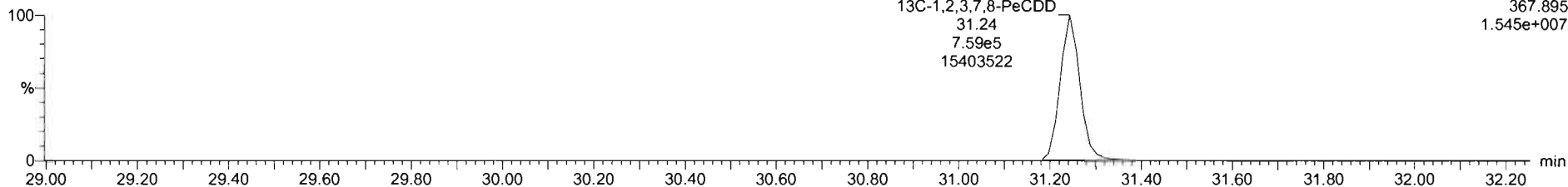


13C-1,2,3,7,8-PeCDD

210414R1_4



210414R1_4



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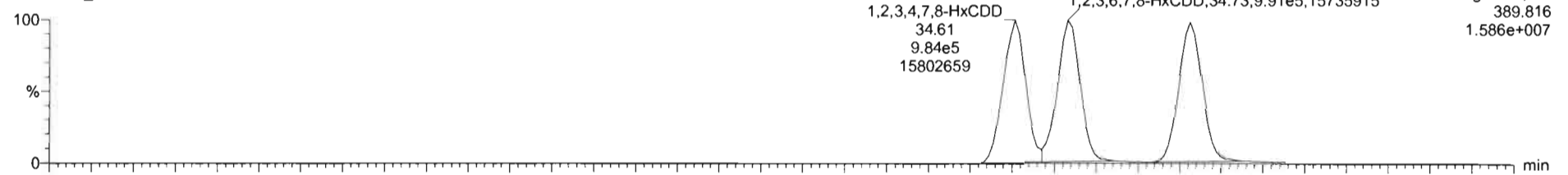
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

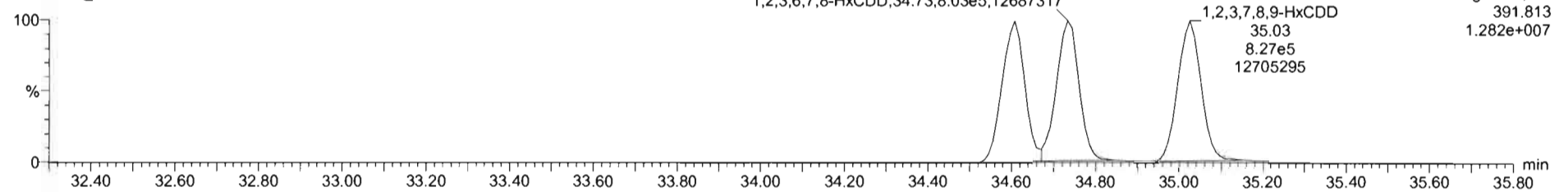
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1,2,3,4,7,8-HxCDD

210414R1_4

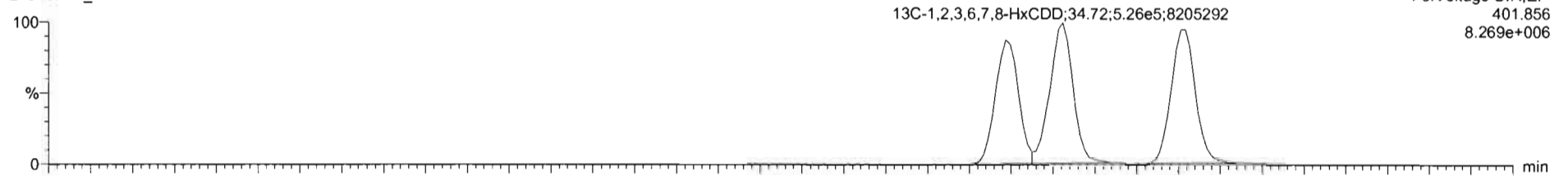


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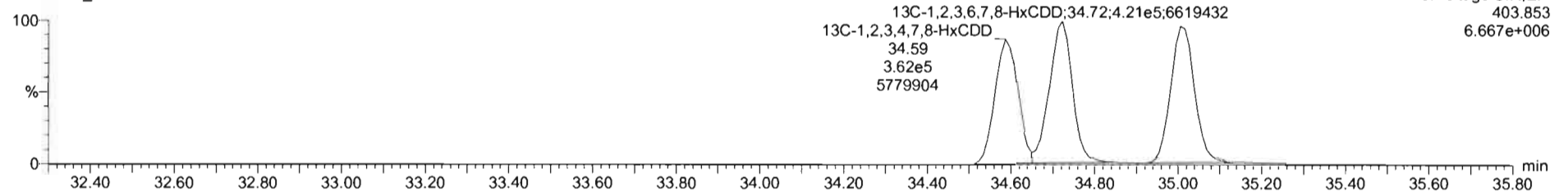


13C-1,2,3,4,7,8-HxCDD

210414R1_4



210414R1_4



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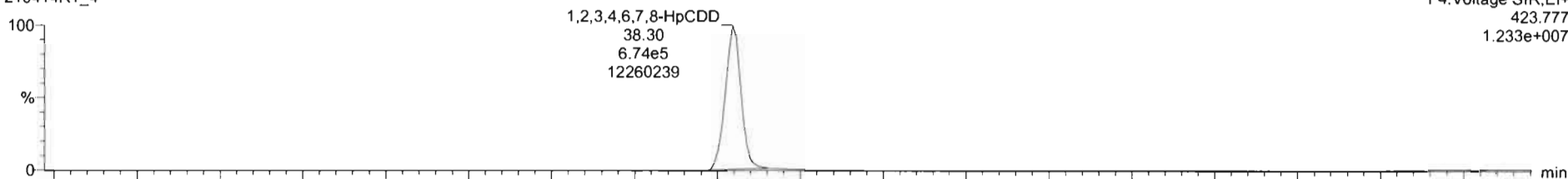
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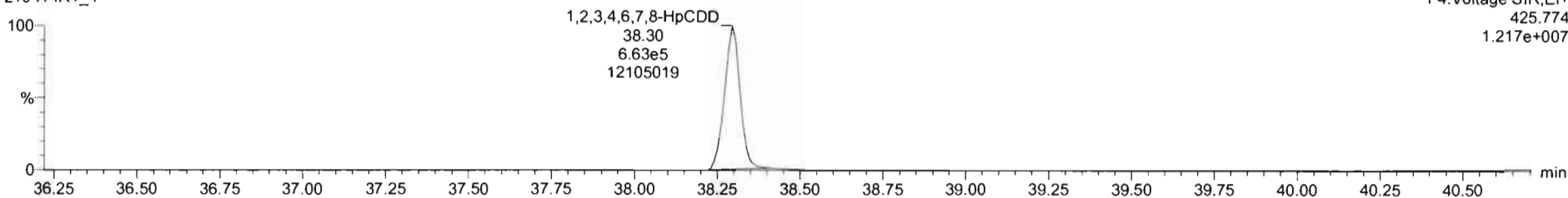
1,2,3,4,6,7,8-HpCDD

210414R1_4



F4:Voltage SIR,EI+
423.777
1.233e+007

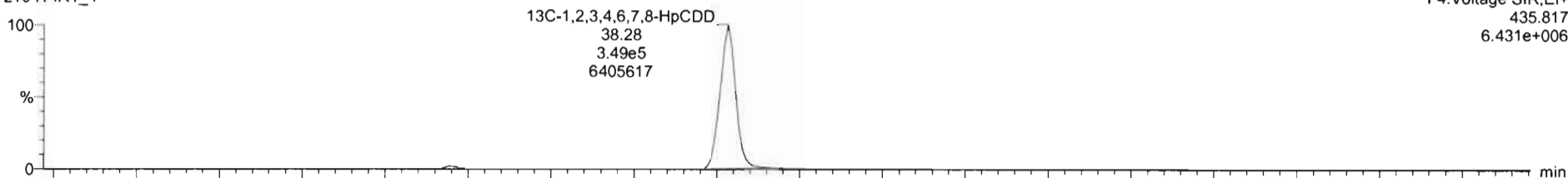
210414R1_4



F4:Voltage SIR,EI+
425.774
1.217e+007

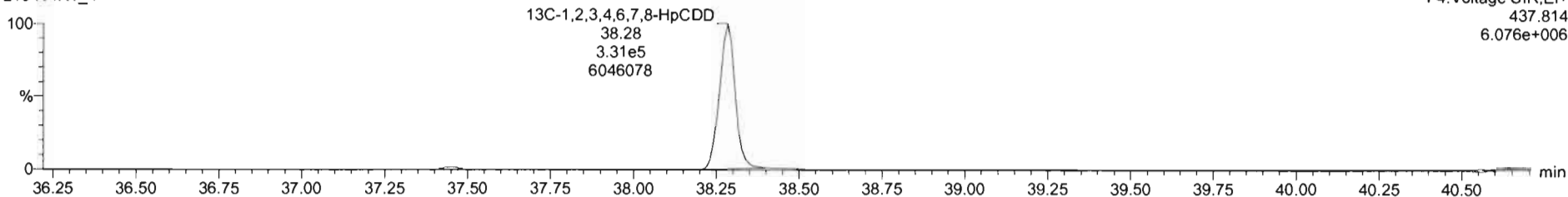
13C-1,2,3,4,6,7,8-HpCDD

210414R1_4



F4:Voltage SIR,EI+
435.817
6.431e+006

210414R1_4



F4:Voltage SIR,EI+
437.814
6.076e+006

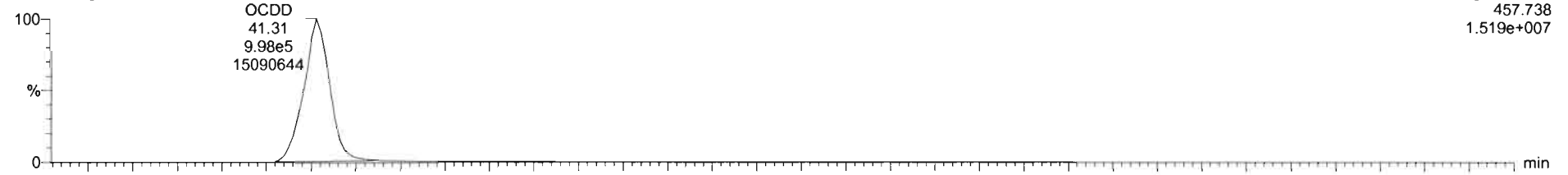
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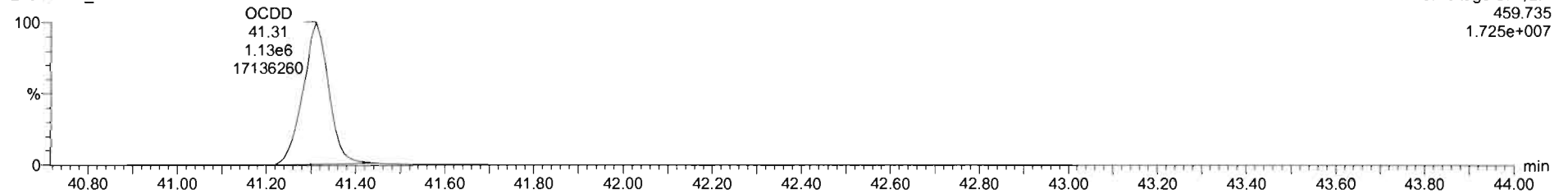
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OCDD

210414R1_4

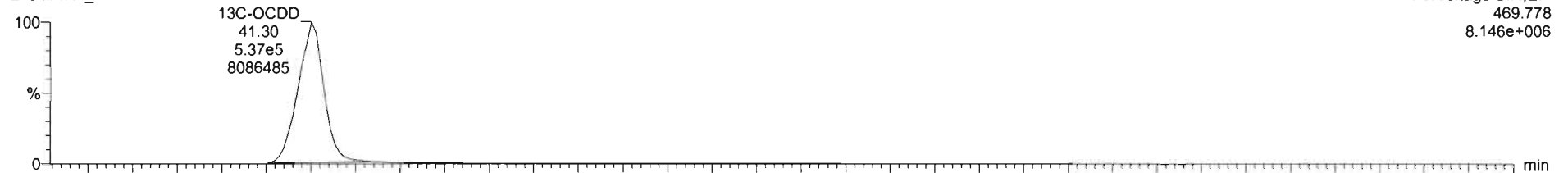


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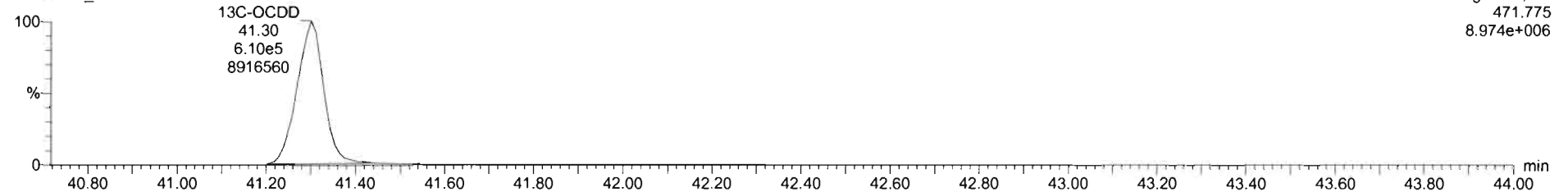


13C-OCDD

210414R1_4



210414R1_4



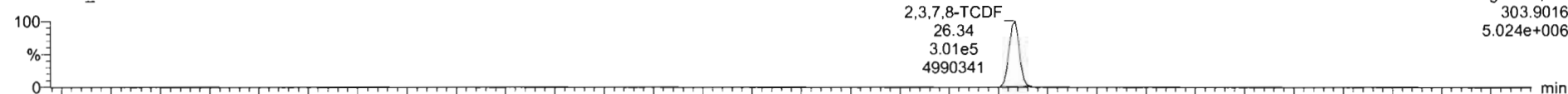
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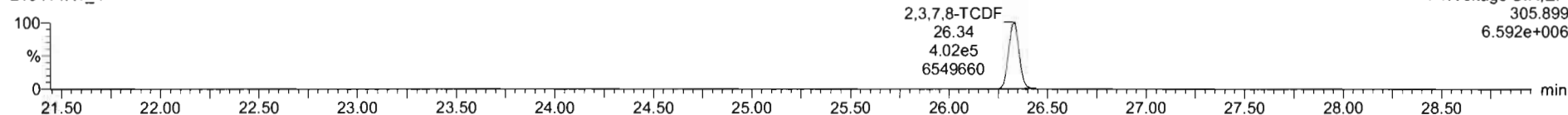
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2,3,7,8-TCDF

210414R1_4

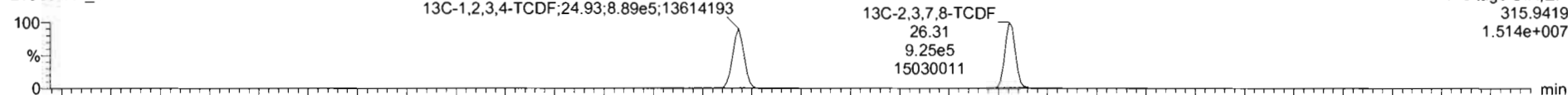


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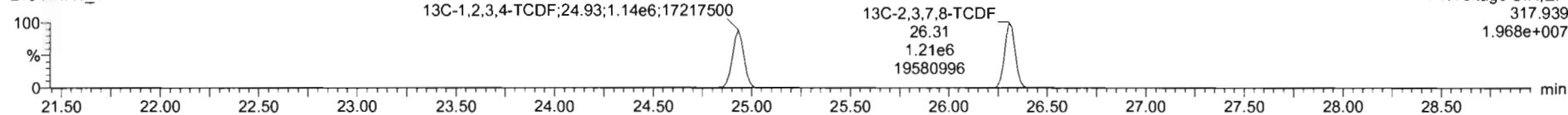


13C-2,3,7,8-TCDF

210414R1_4

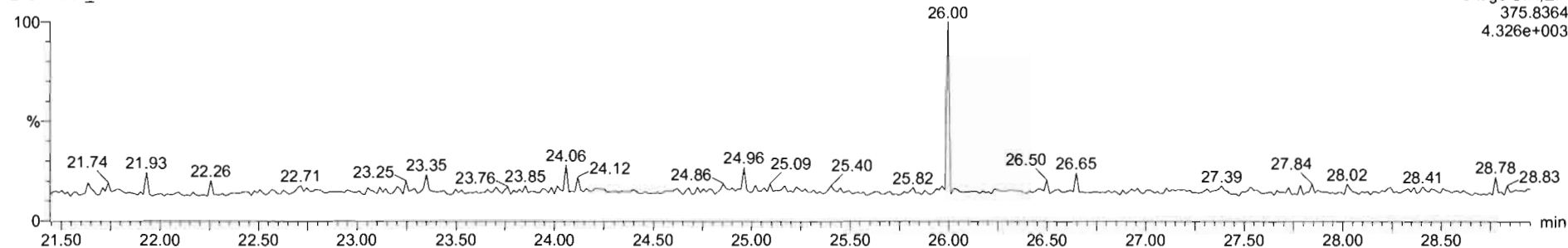


210414R1_4



DPE1

210414R1_4



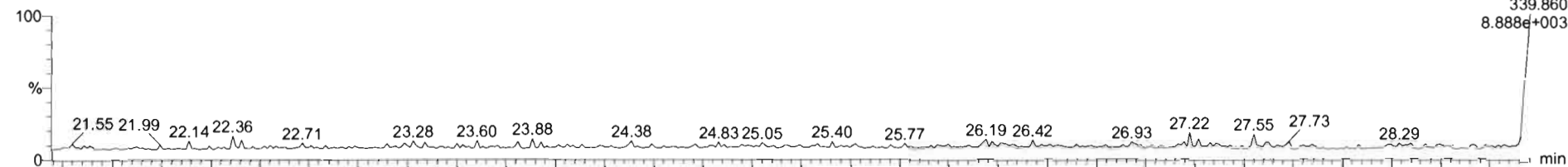
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

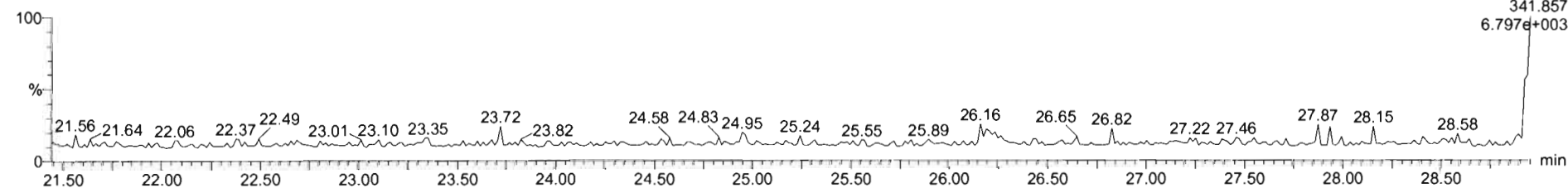
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1st Func. Penta-Furans

210414R1_4

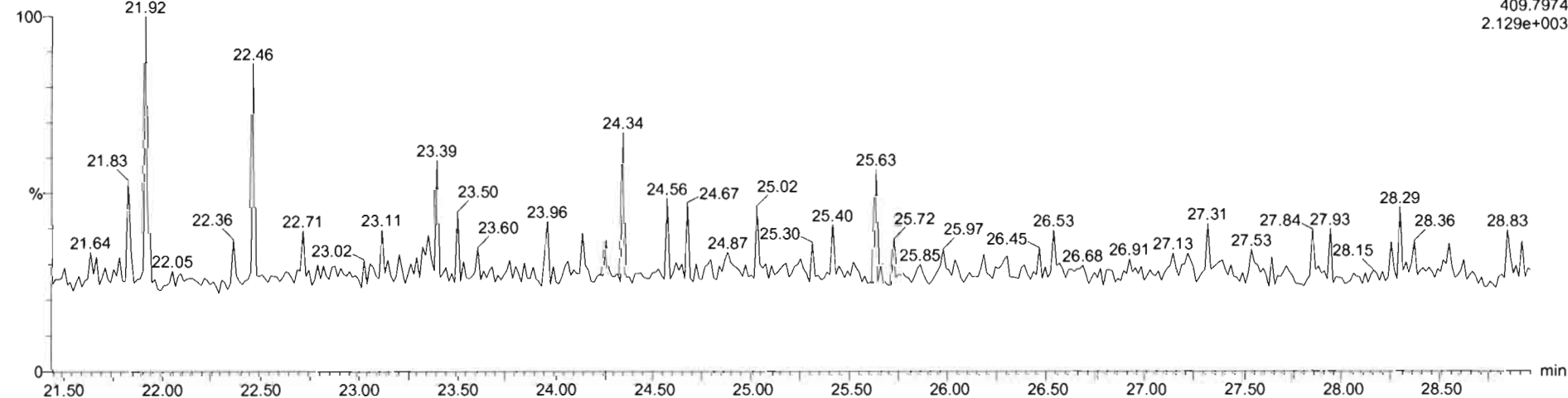


210414R1_4



DPE6

210414R1_4

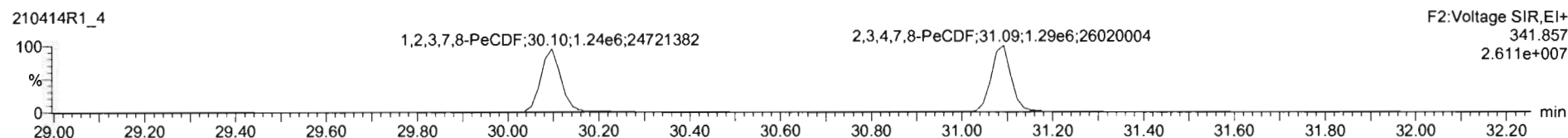
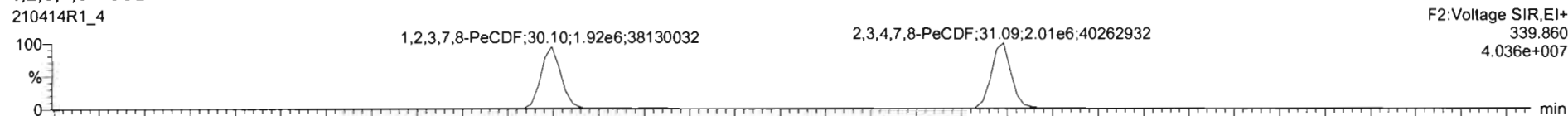


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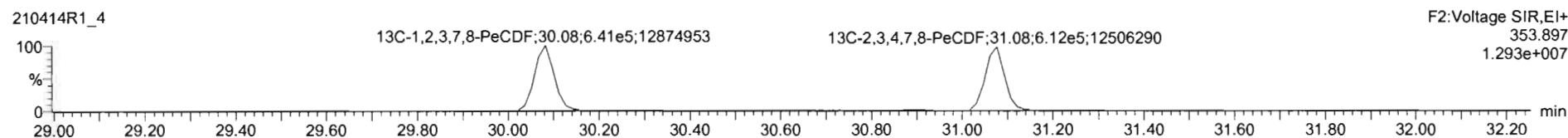
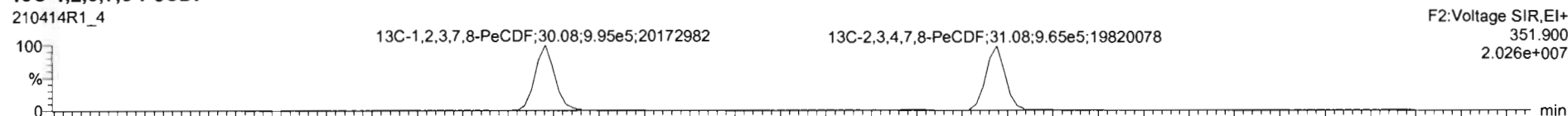
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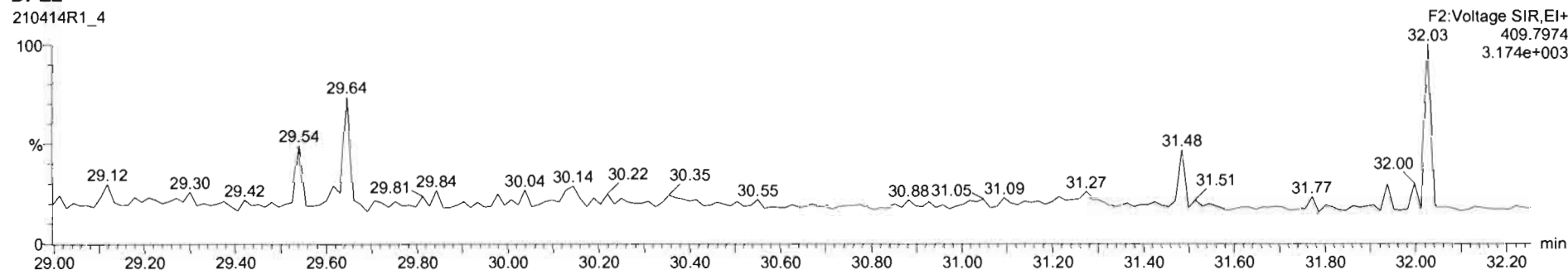
1,2,3,7,8-PeCDF



13C-1,2,3,7,8-PeCDF



DPE2

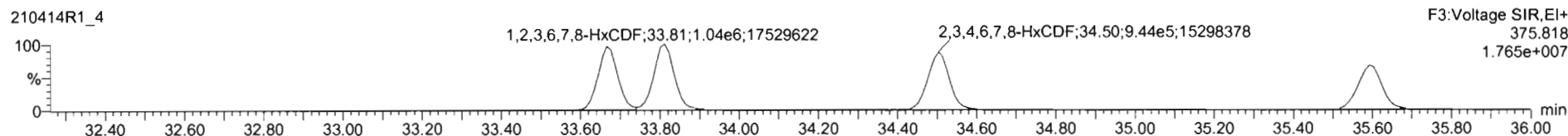
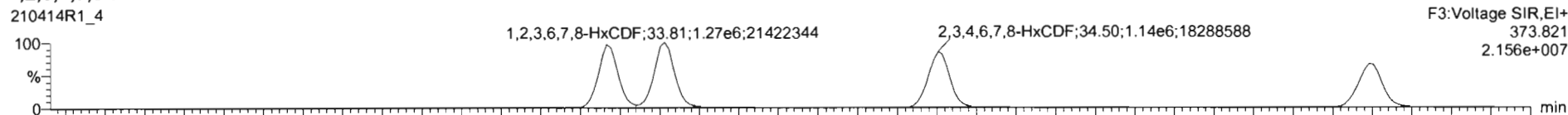


Dataset: Untitled

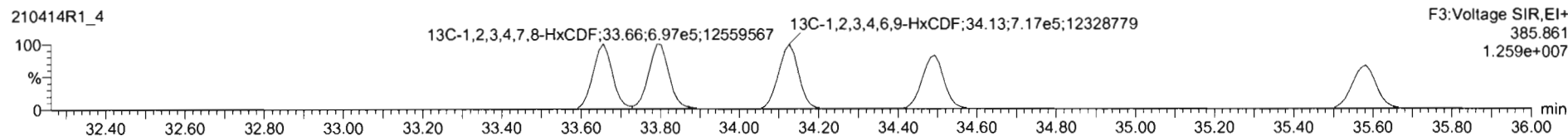
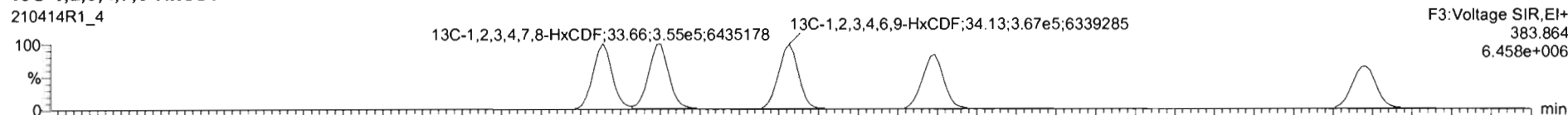
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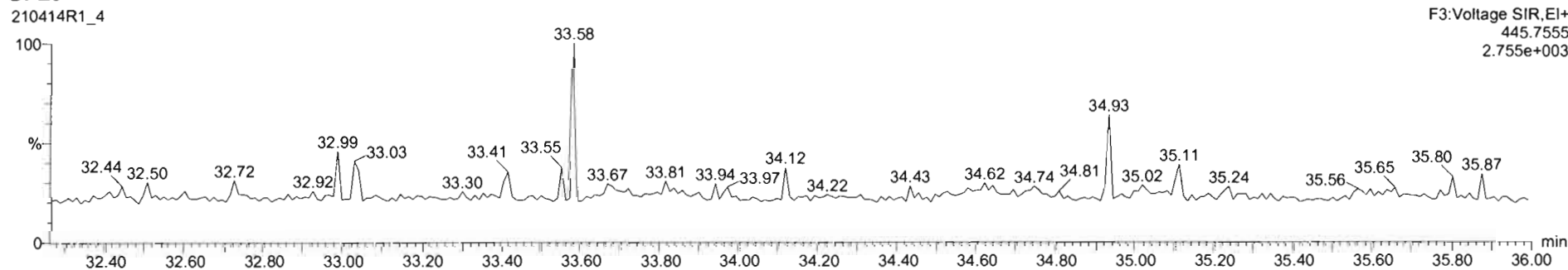
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3



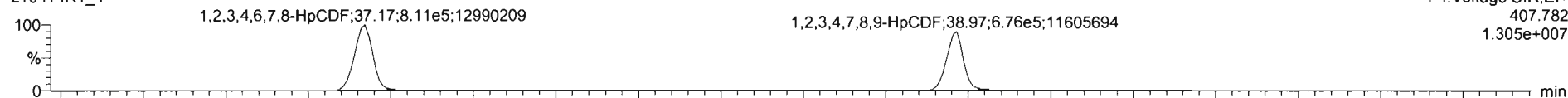
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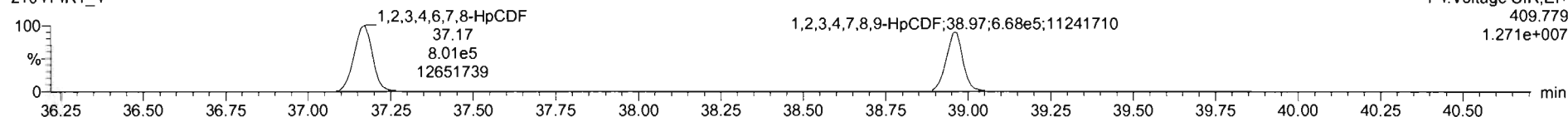
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1,2,3,4,6,7,8-HpCDF

210414R1_4

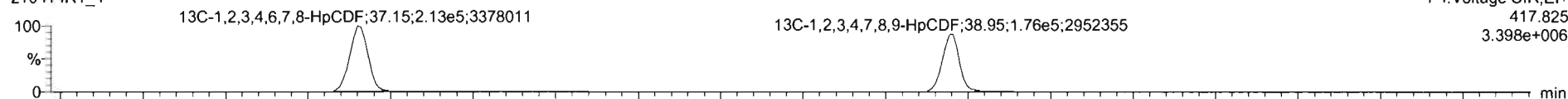


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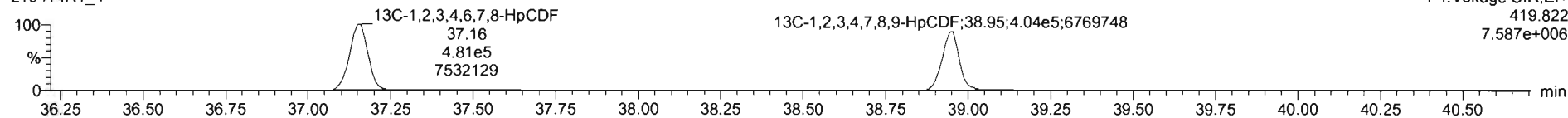


13C-1,2,3,4,6,7,8-HpCDF

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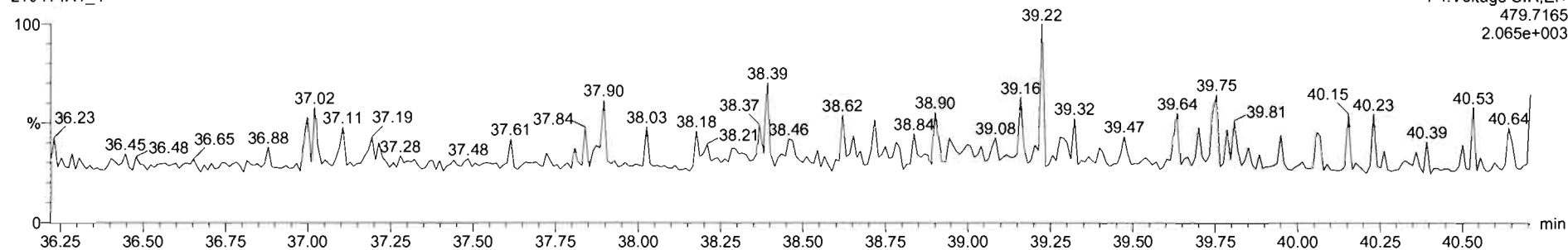


210414R1_4



DPE4

210414R1_4

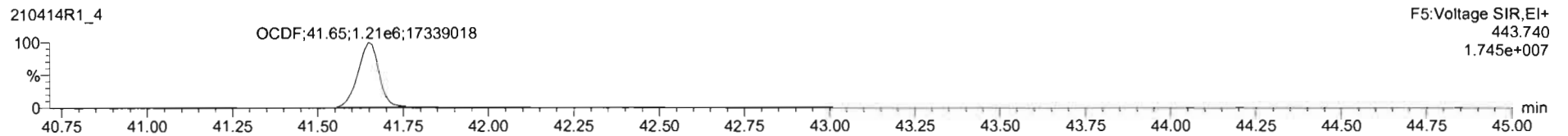
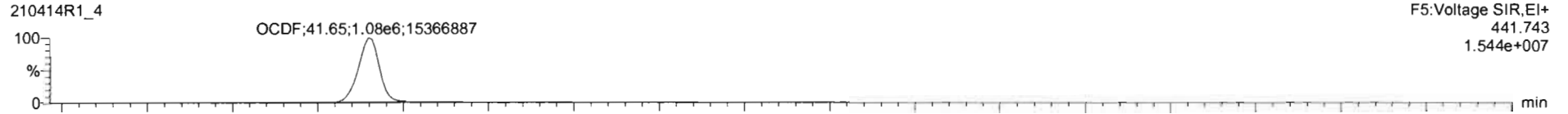


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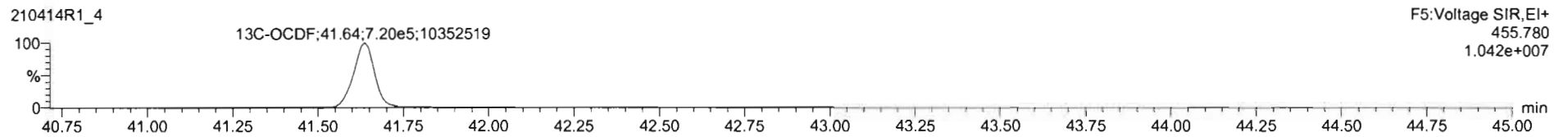
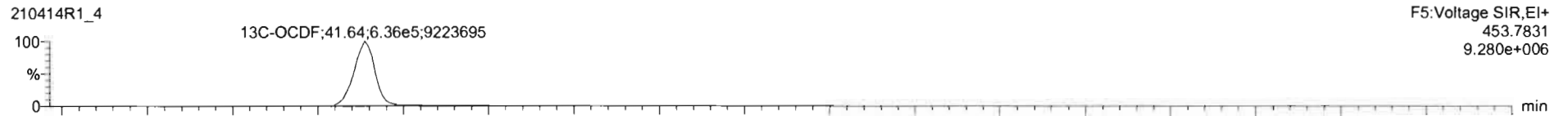
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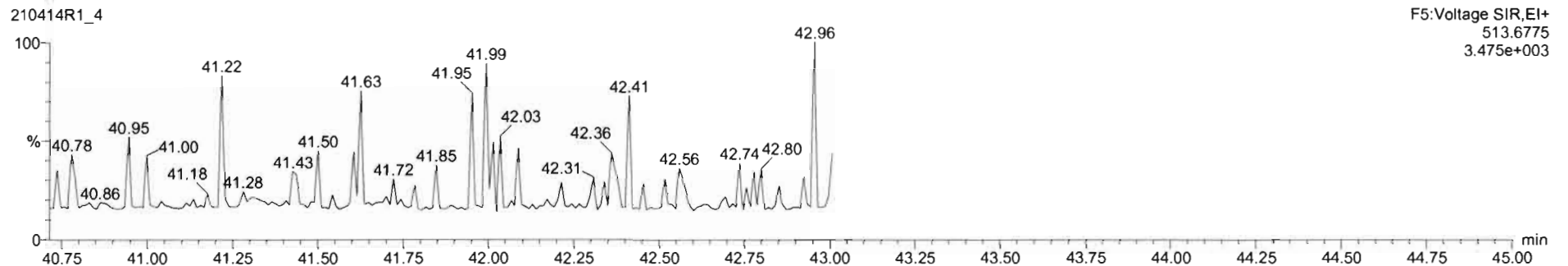
OCDF



13C-OCDF



DPE5



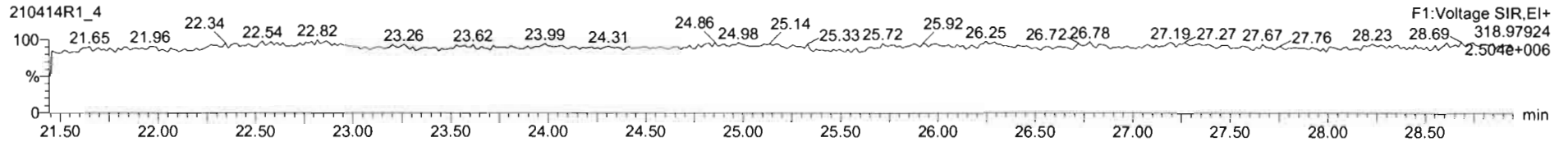
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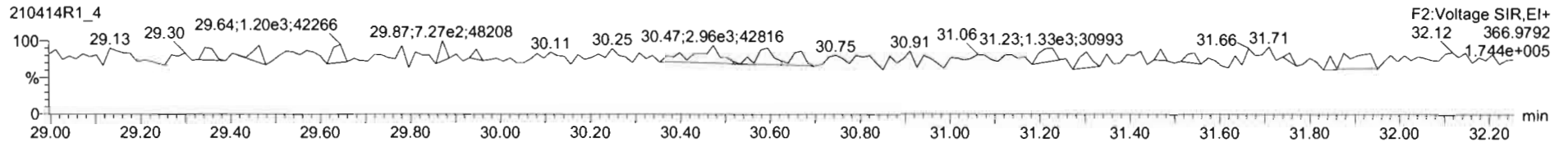
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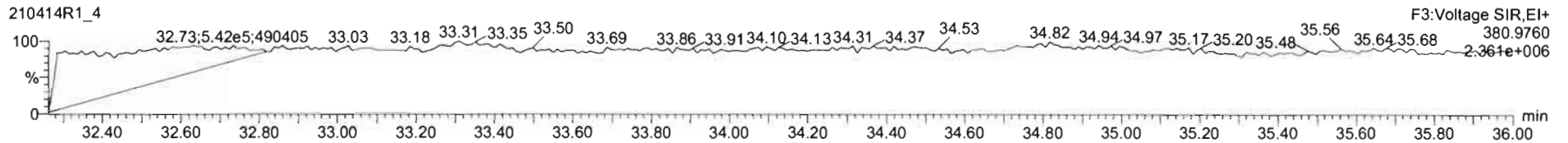
PFK1



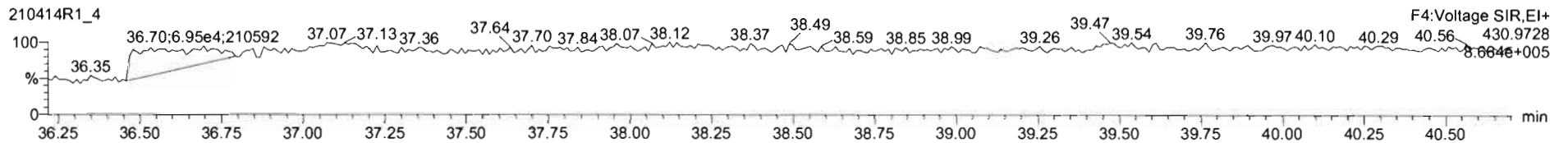
PFK2



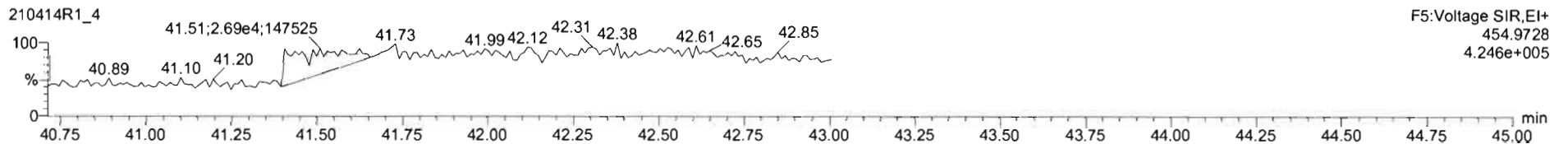
PFK3



PFK4



PFK5



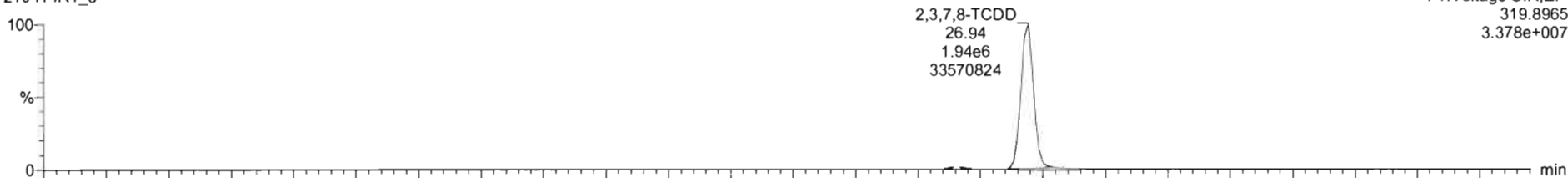
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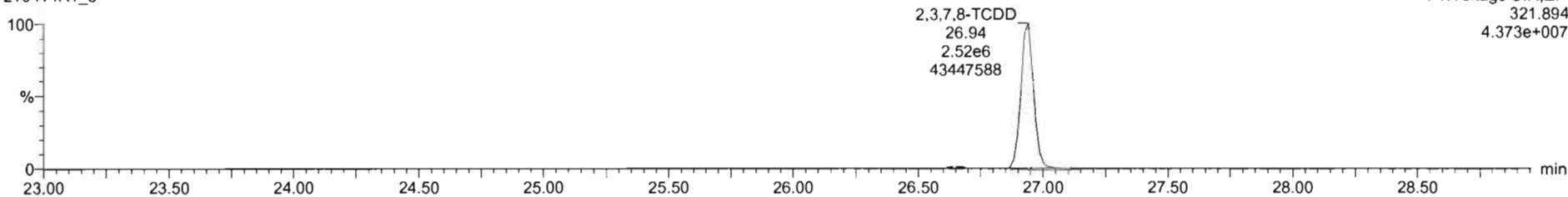
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2,3,7,8-TCDD

210414R1_5

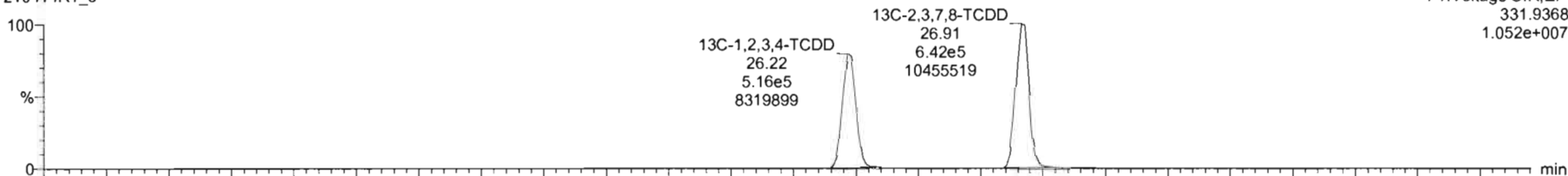


210414R1_5

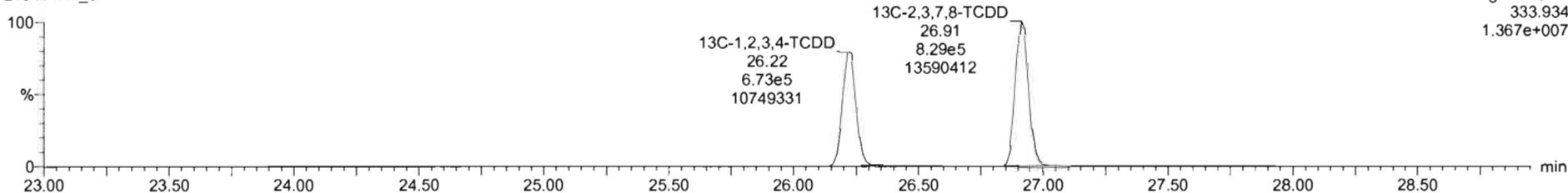


13C-2,3,7,8-TCDD

210414R1_5



210414R1_5



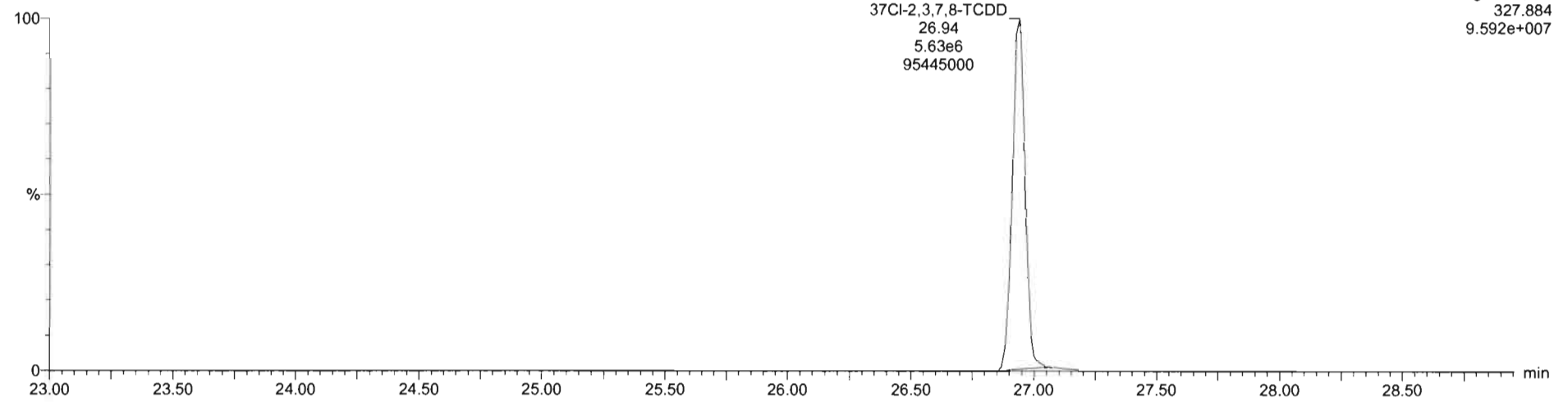
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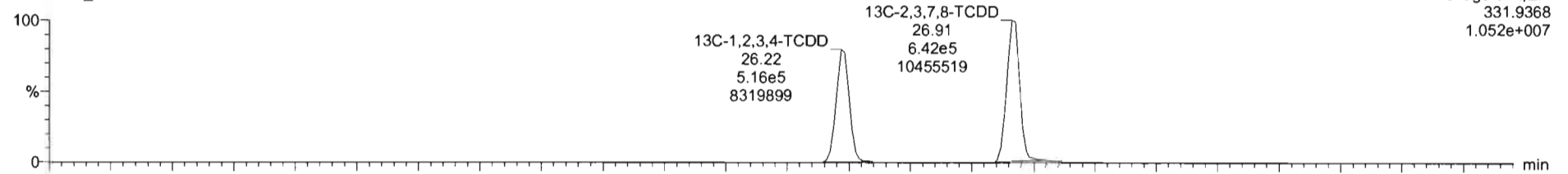
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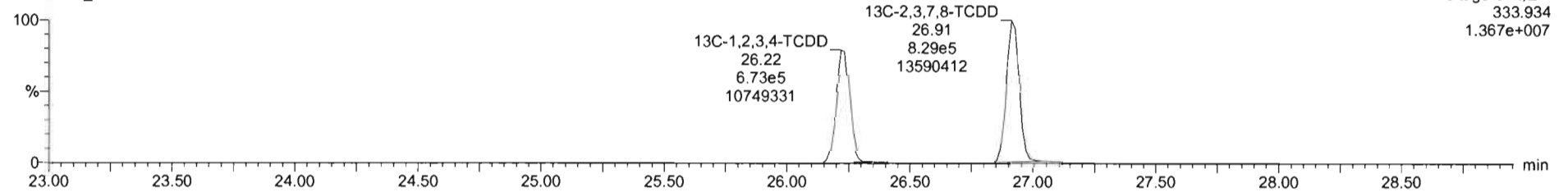


13C-1,2,3,4-TCDD

210414R1_5



210414R1_5



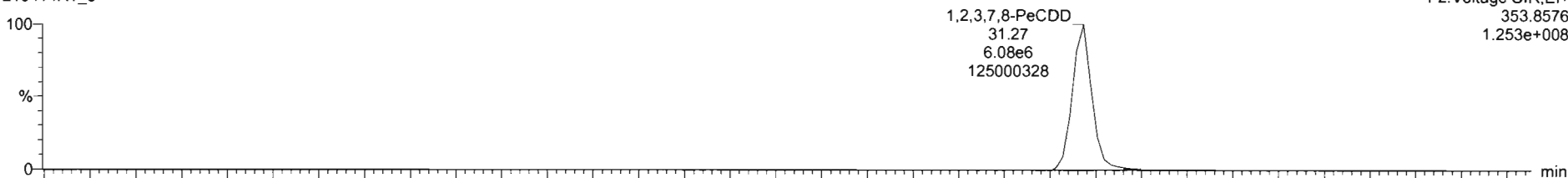
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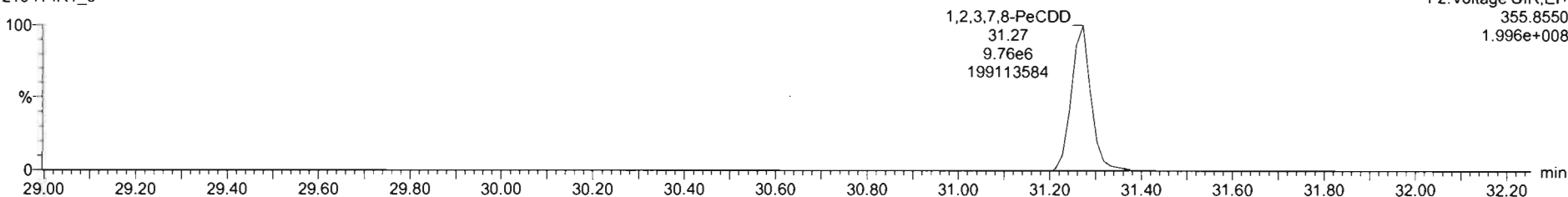
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1,2,3,7,8-PeCDD

210414R1_5

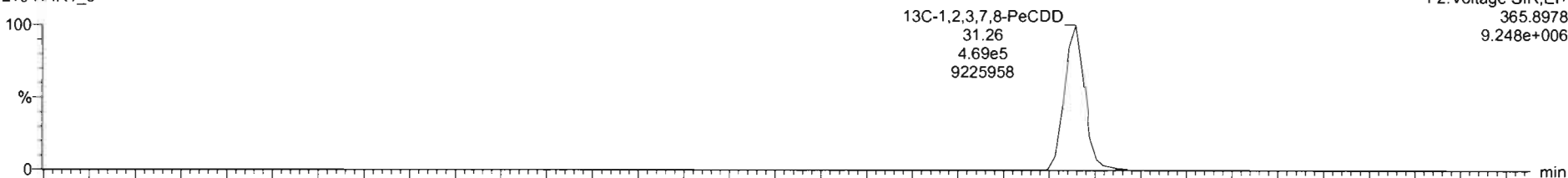


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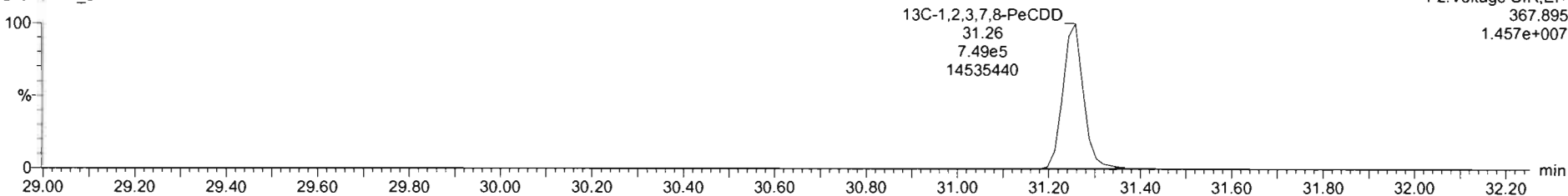


13C-1,2,3,7,8-PeCDD

210414R1_5



210414R1_5



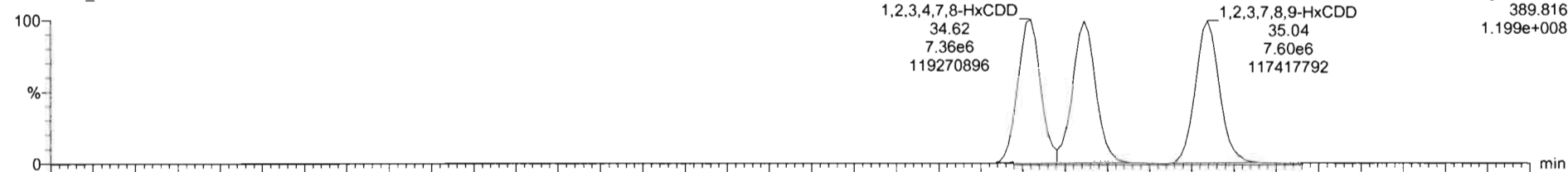
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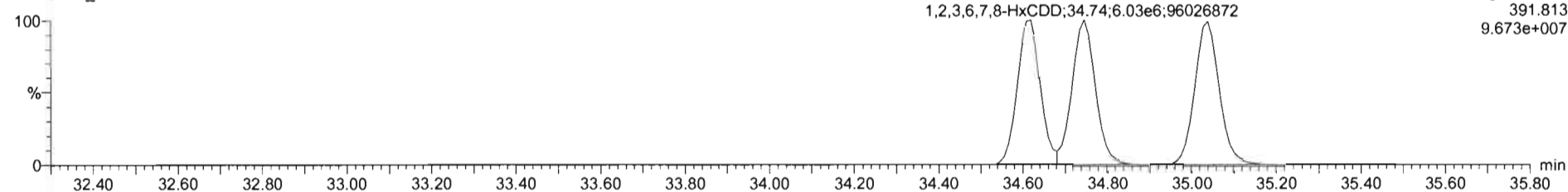
1,2,3,4,7,8-HxCDD

210414R1_5



F3:Voltage SIR,EI+
389.816
1.199e+008

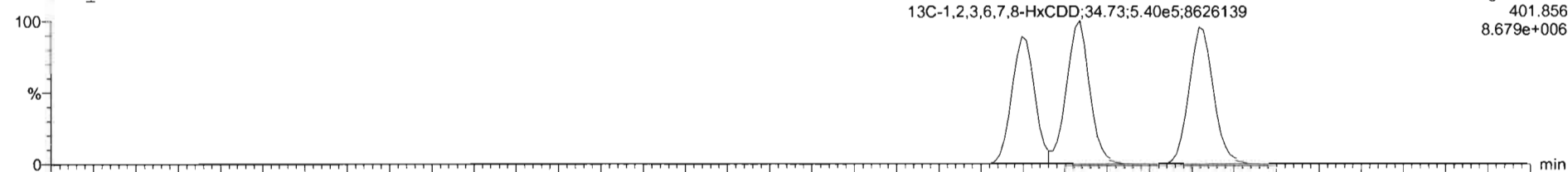
210414R1_5



F3:Voltage SIR,EI+
391.813
9.673e+007

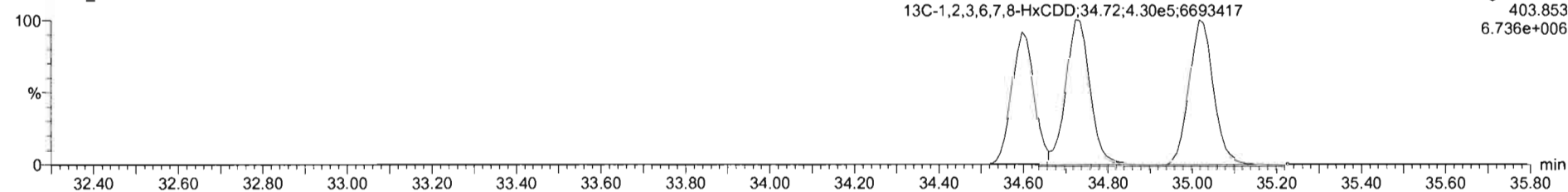
13C-1,2,3,4,7,8-HxCDD

210414R1_5



F3:Voltage SIR,EI+
401.856
8.679e+006

210414R1_5



F3:Voltage SIR,EI+
403.853
6.736e+006

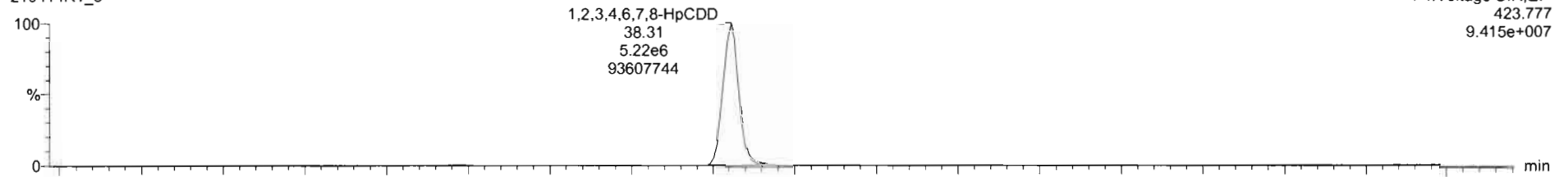
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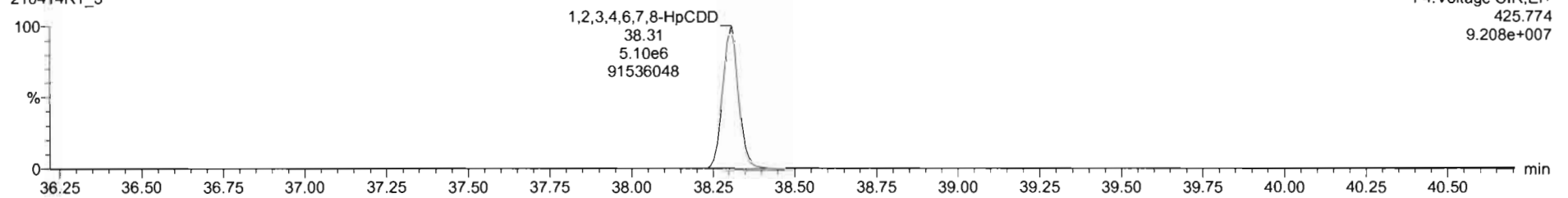
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1,2,3,4,6,7,8-HpCDD

210414R1_5

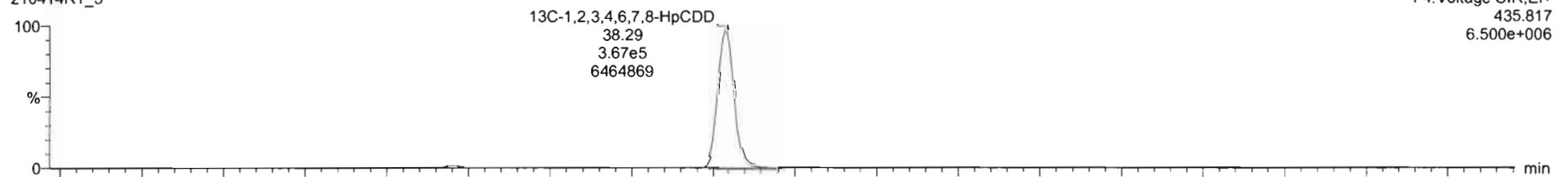


210414R1_5

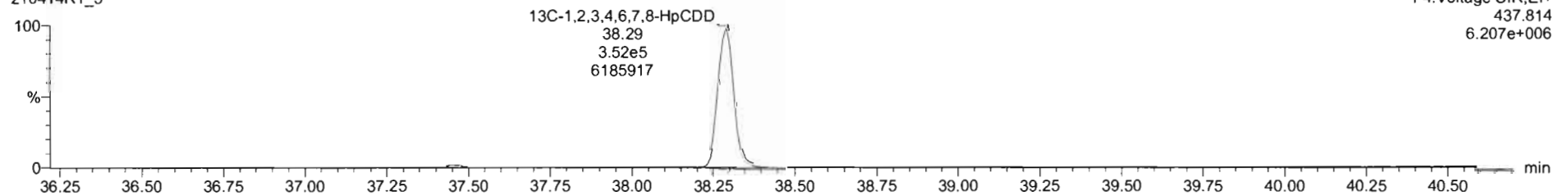


13C-1,2,3,4,6,7,8-HpCDD

210414R1_5



210414R1_5



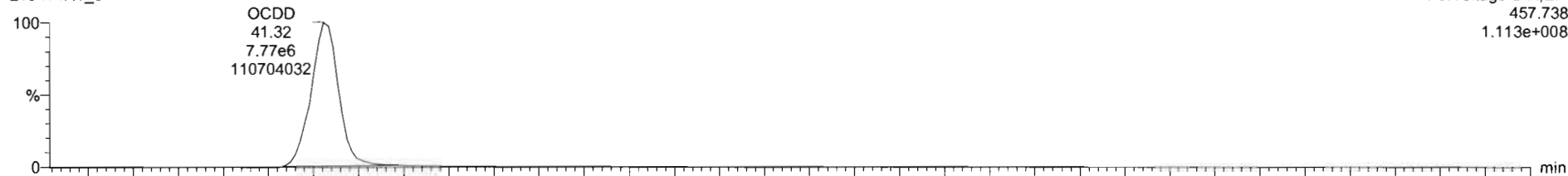
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

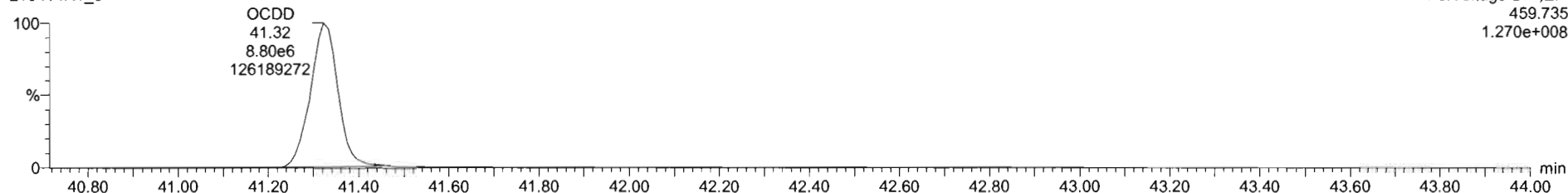
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OCDD

210414R1_5

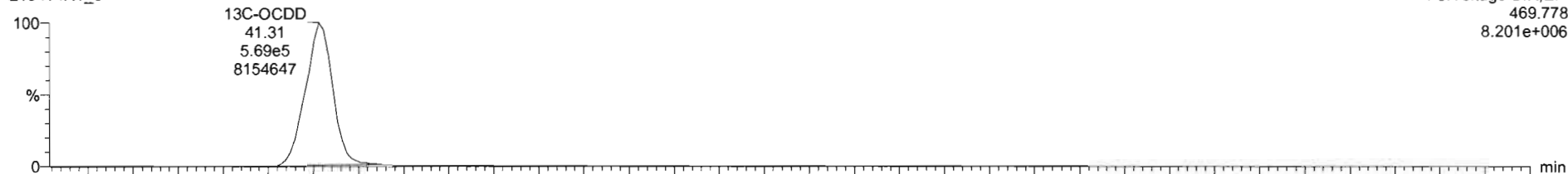


210414R1_5

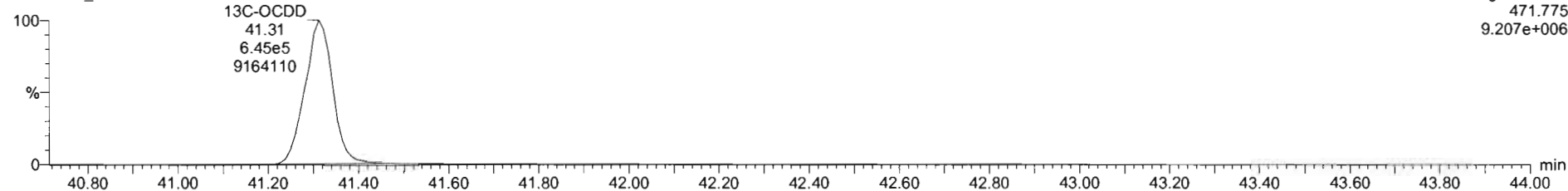


13C-OCDD

210414R1_5



210414R1_5



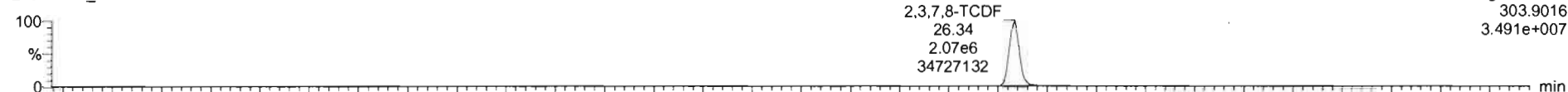
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

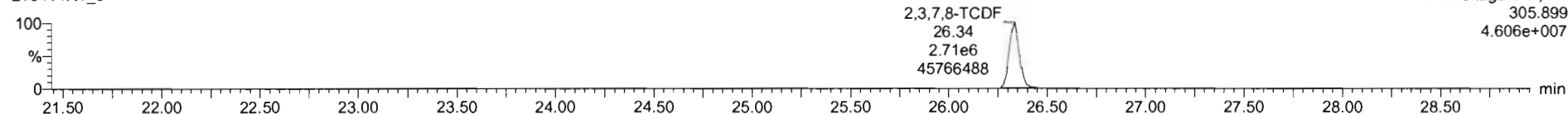
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2,3,7,8-TCDF

210414R1_5

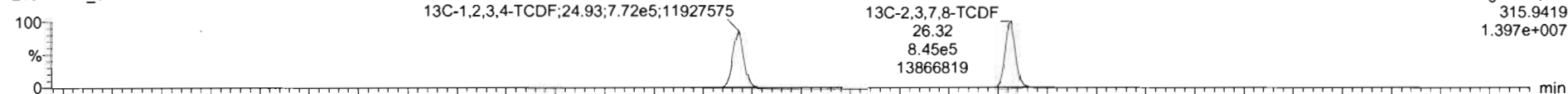


210414R1_5

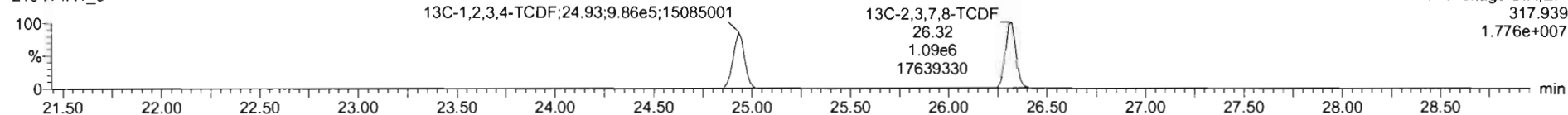


13C-2,3,7,8-TCDF

210414R1_5

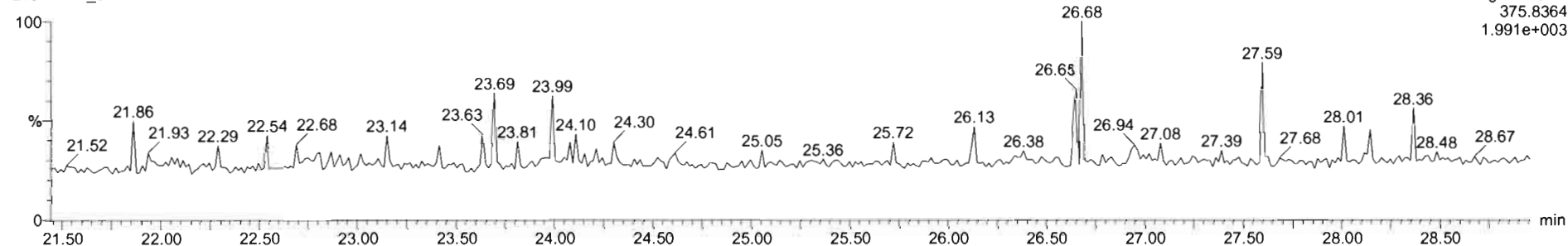


210414R1_5



DPE1

210414R1_5



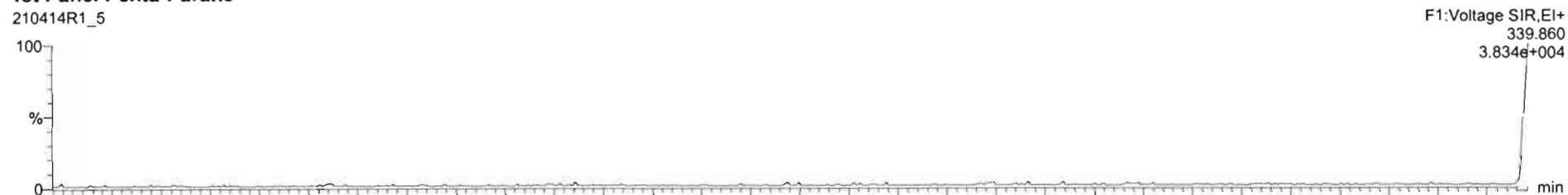
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

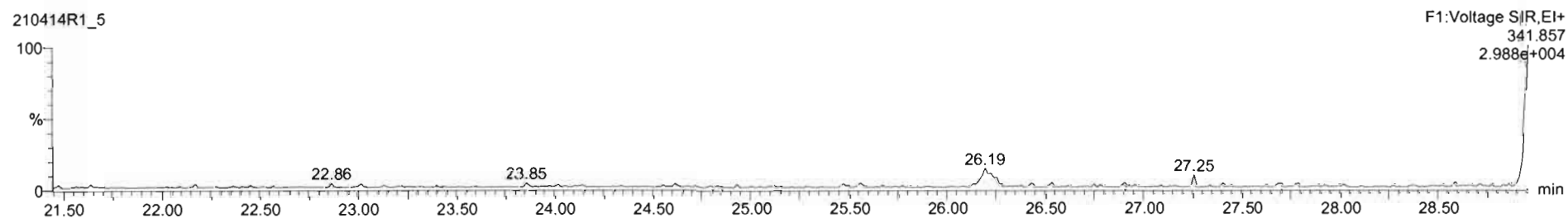
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1st Func. Penta-Furans

210414R1_5

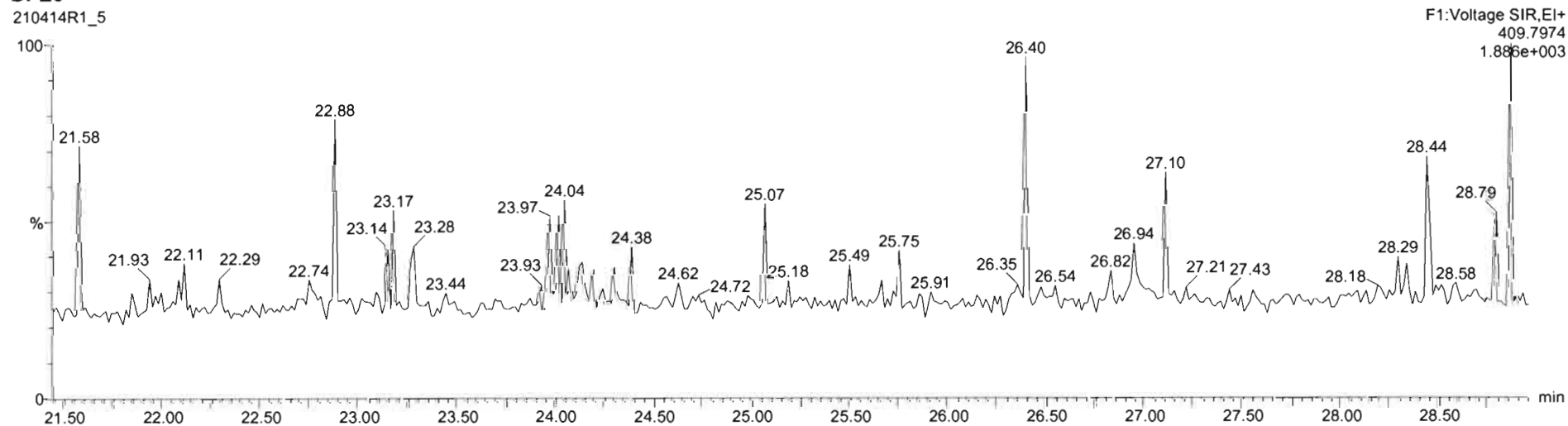


210414R1_5



DPE6

210414R1_5



Dataset: Untitled

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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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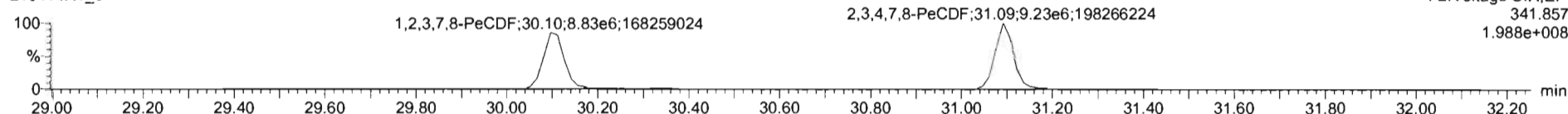
1,2,3,7,8-PeCDF

210414R1_5



F2:Voltage SIR,EI+
339.860
3.049e+008

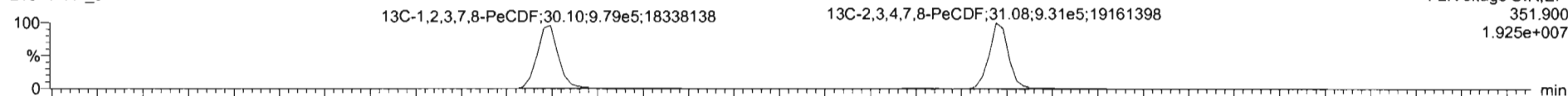
210414R1_5



F2:Voltage SIR,EI+
341.857
1.988e+008

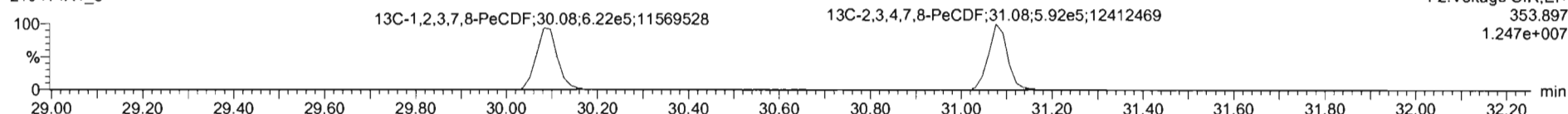
13C-1,2,3,7,8-PeCDF

210414R1_5



F2:Voltage SIR,EI+
351.900
1.925e+007

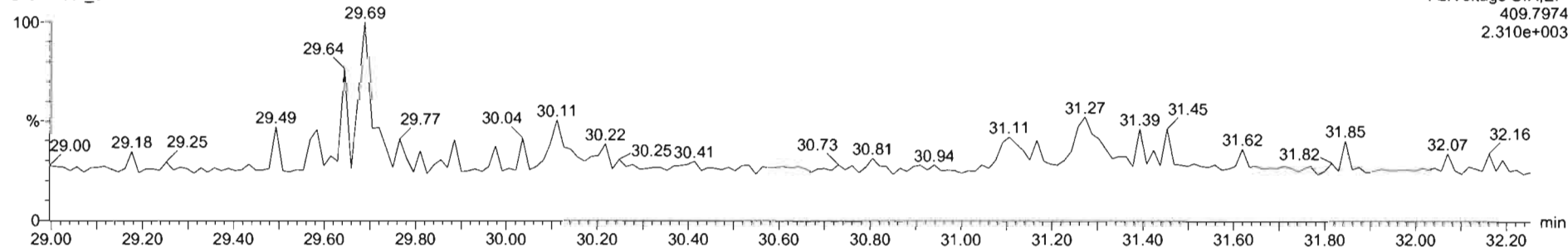
210414R1_5



F2:Voltage SIR,EI+
353.897
1.247e+007

DPE2

210414R1_5



F2:Voltage SIR,EI+
409.7974
2.310e+003

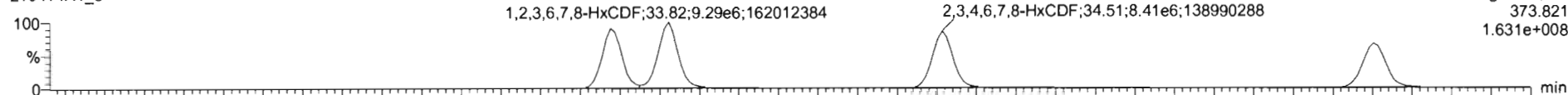
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Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

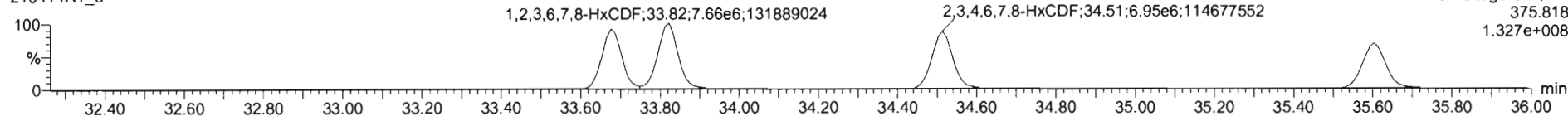
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1,2,3,4,7,8-HxCDF

210414R1_5

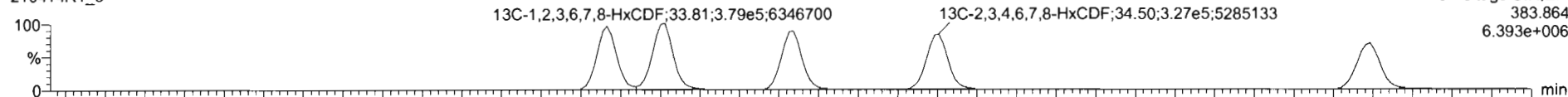


210414R1_5

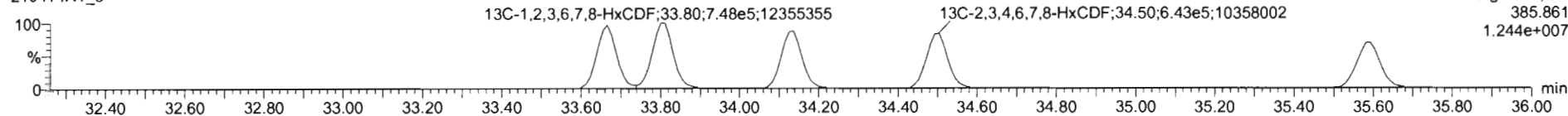


13C-1,2,3,4,7,8-HxCDF

210414R1_5

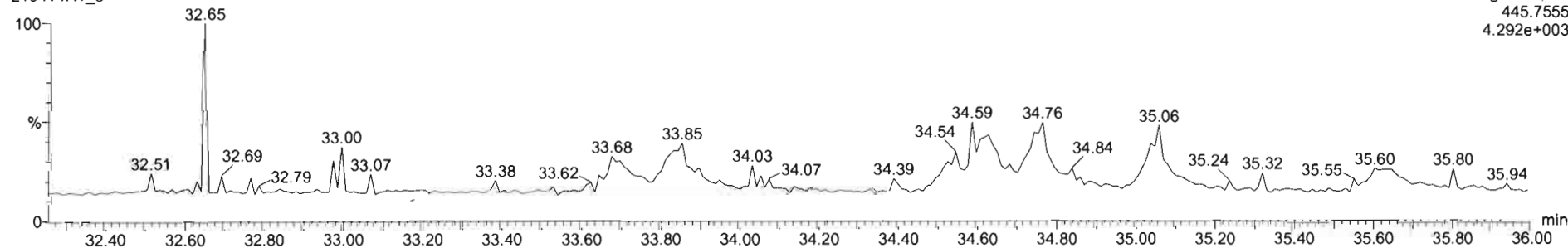


210414R1_5



DPE3

210414R1_5



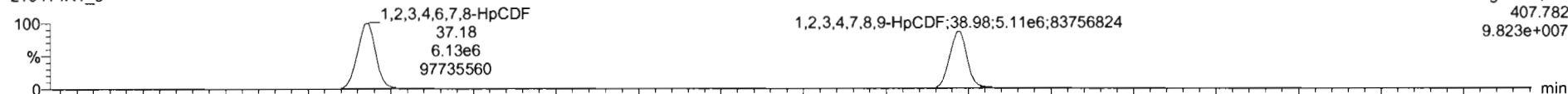
Dataset: Untitled

Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

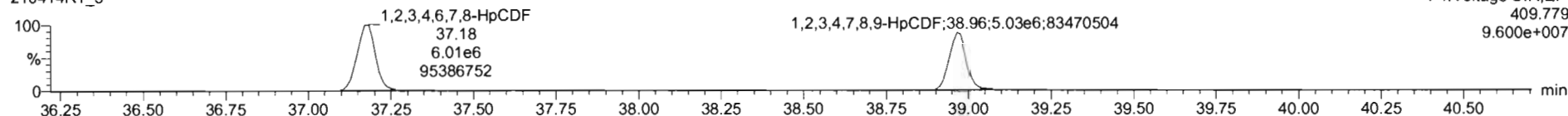
1,2,3,4,6,7,8-HpCDF

210414R1_5



F4:Voltage SIR,EI+
407.782
9.823e+007

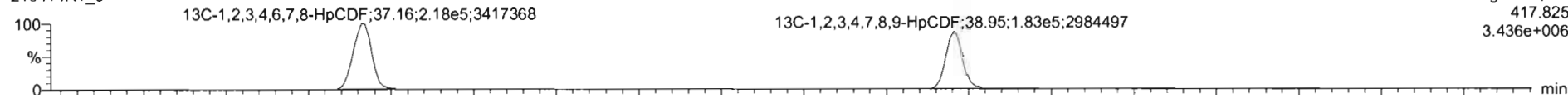
210414R1_5



F4:Voltage SIR,EI+
409.779
9.600e+007

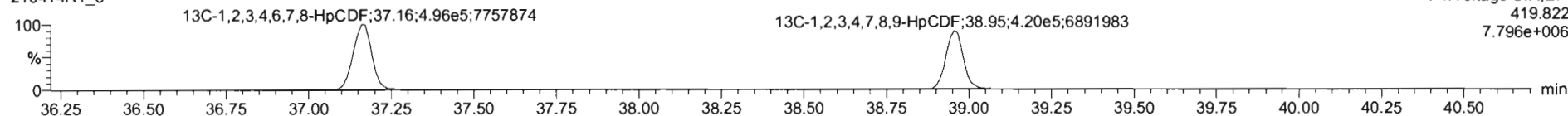
13C-1,2,3,4,6,7,8-HpCDF

210414R1_5



F4:Voltage SIR,EI+
417.825
3.436e+006

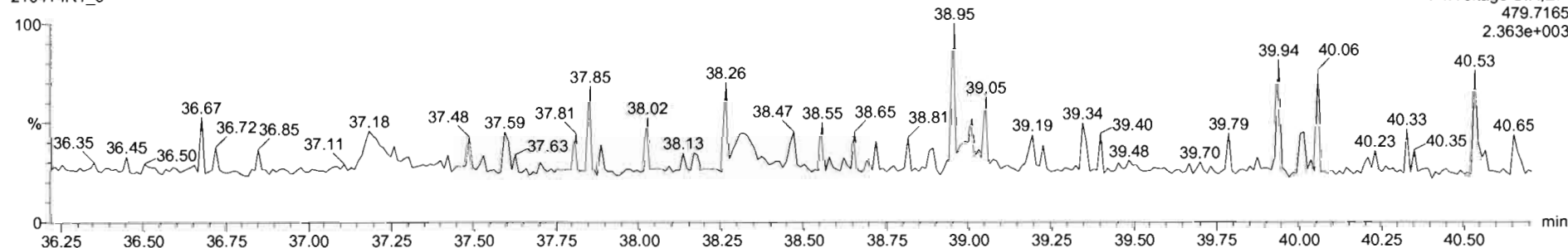
210414R1_5



F4:Voltage SIR,EI+
419.822
7.796e+006

DPE4

210414R1_5



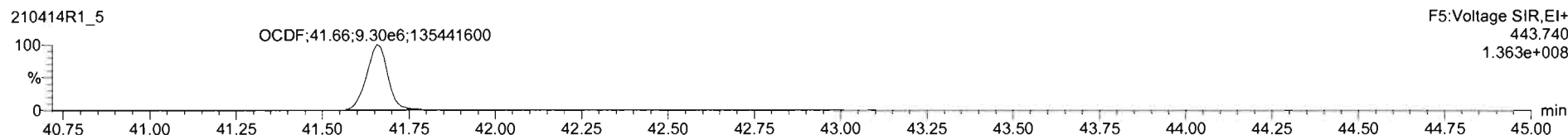
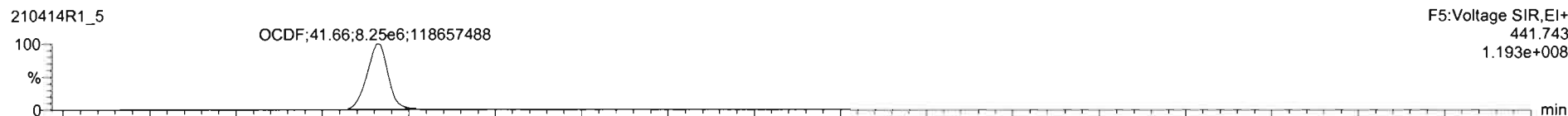
F4:Voltage SIR,EI+
479.7165
2.363e+003

Dataset: Untitled

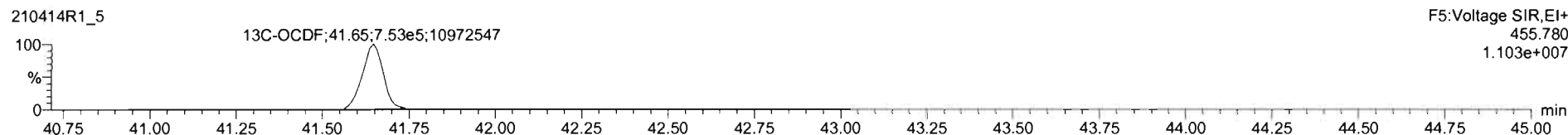
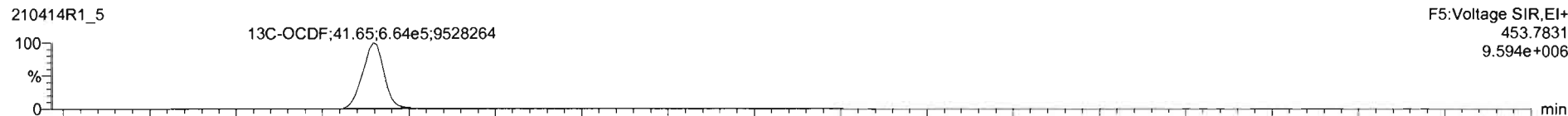
Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

Name: 210414R1_5, Date: 14-Apr-2021, Time: 12:59:55, ID: ST210414R1-5 1613 CS5 21C0107, Description: 1613 CS5 21C0107

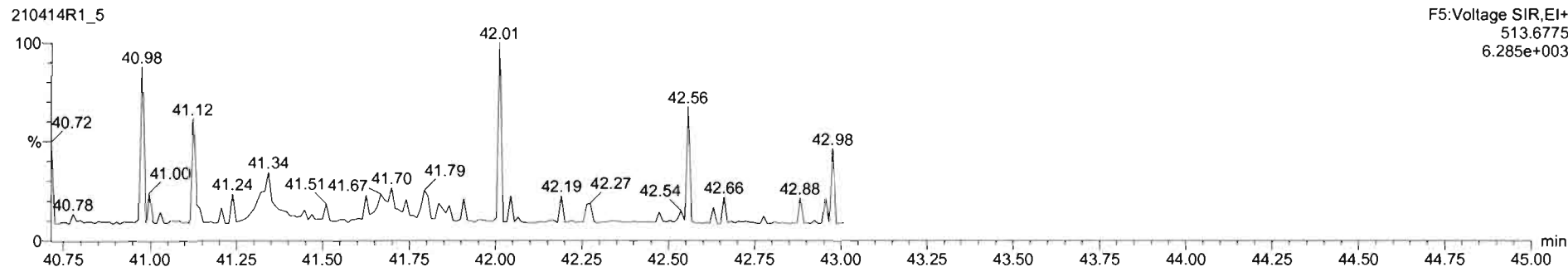
OCDF



13C-OCDF



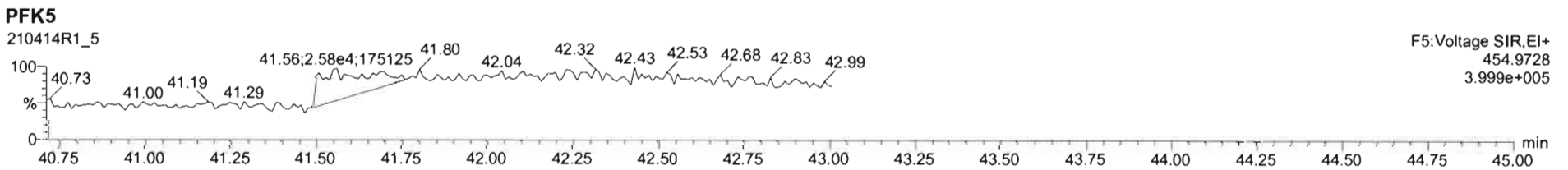
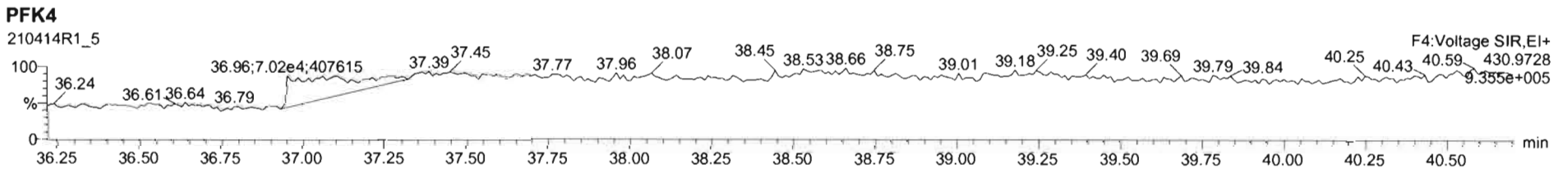
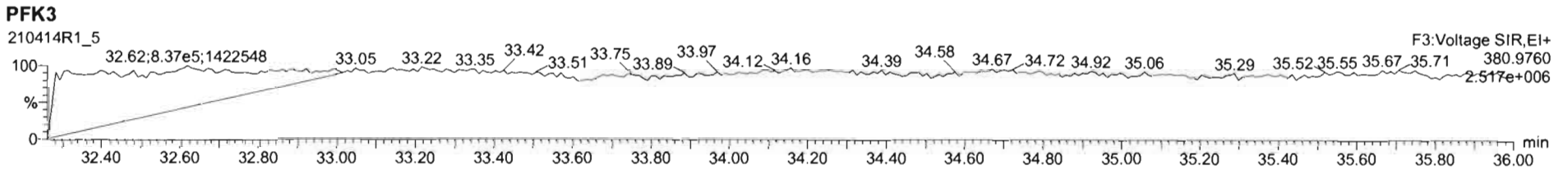
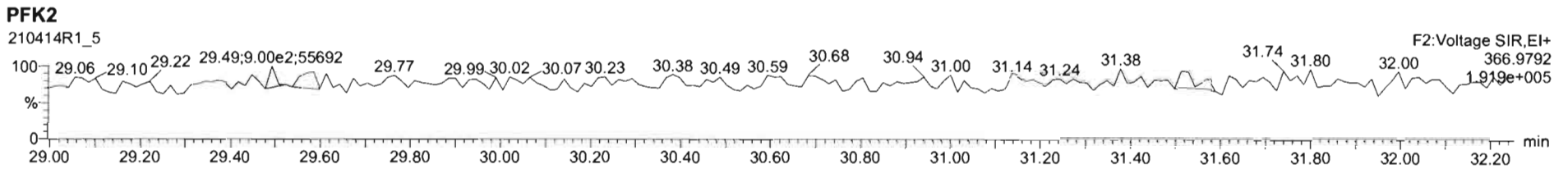
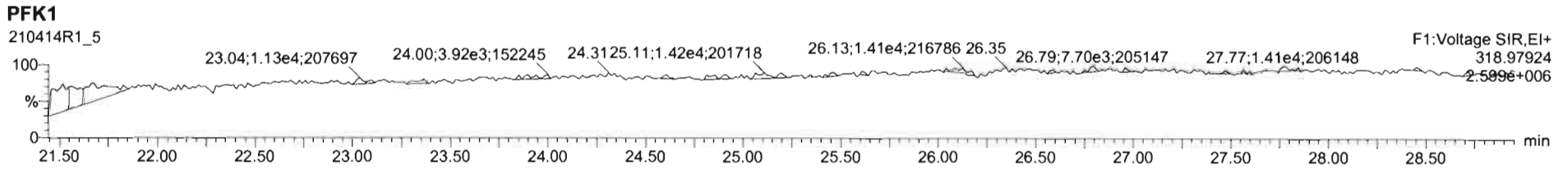
DPE5



Dataset: Untitled

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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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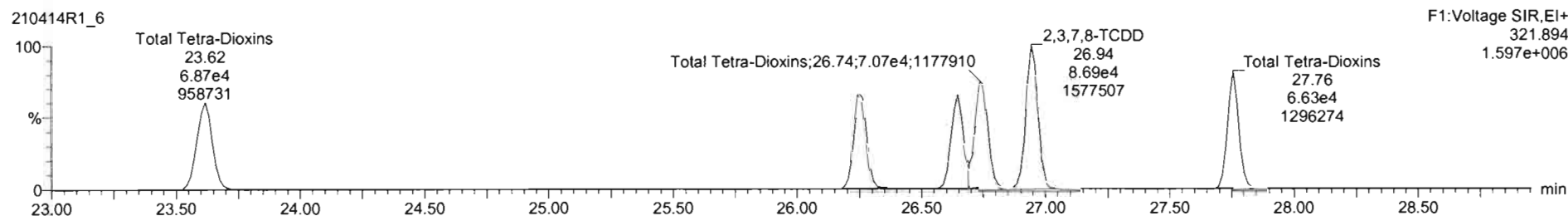
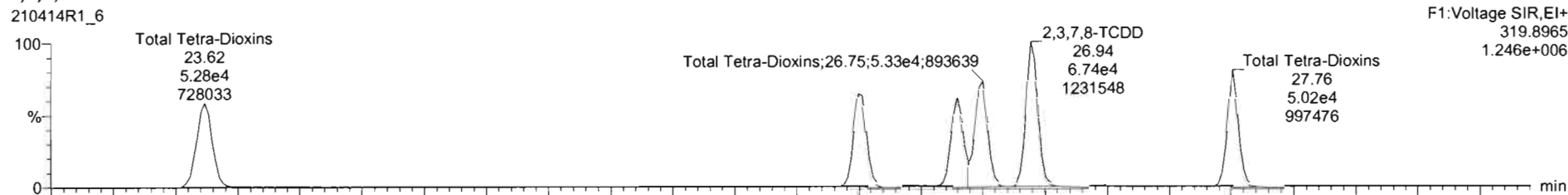


Dataset: Untitled

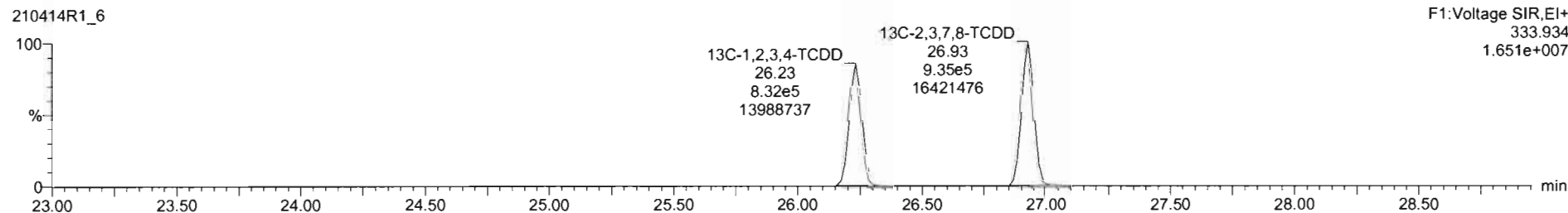
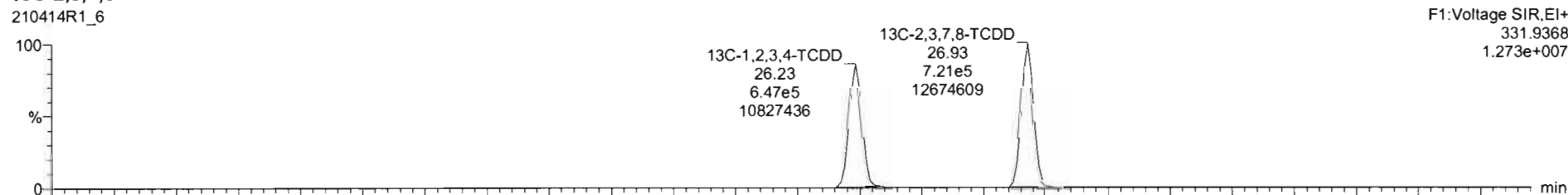
Last Altered: Thursday, April 15, 2021 09:17:13 Pacific Daylight Time
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2,3,7,8-TCDD



13C-2,3,7,8-TCDD



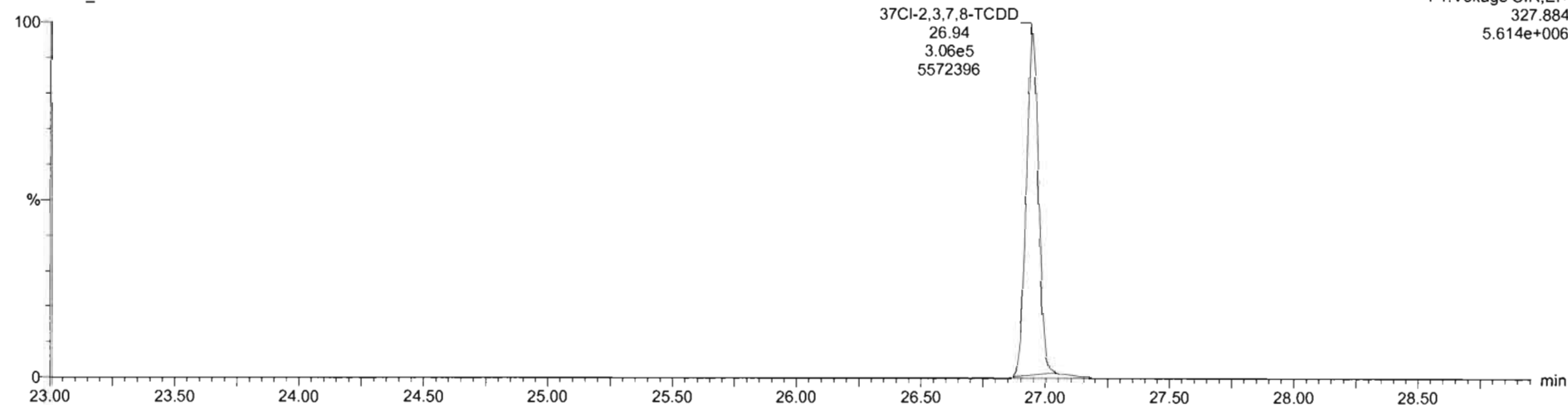
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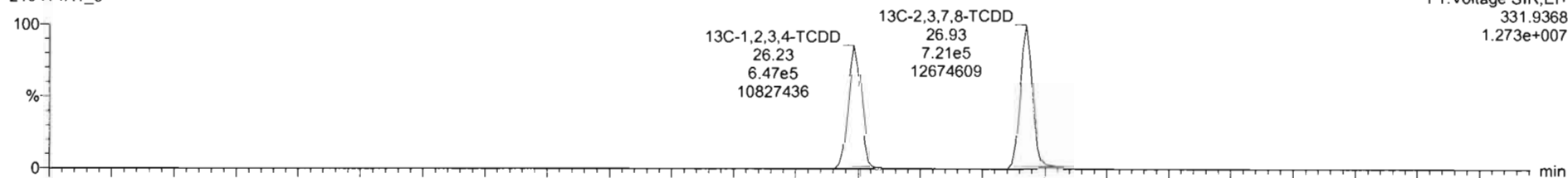
37Cl-2,3,7,8-TCDD

210414R1_6

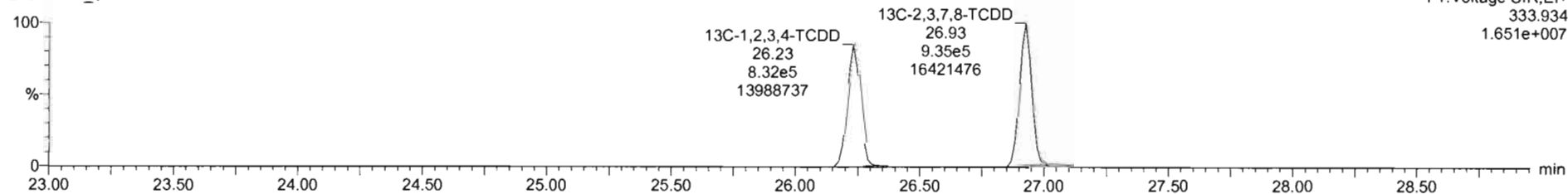


13C-1,2,3,4-TCDD

210414R1_6



210414R1_6

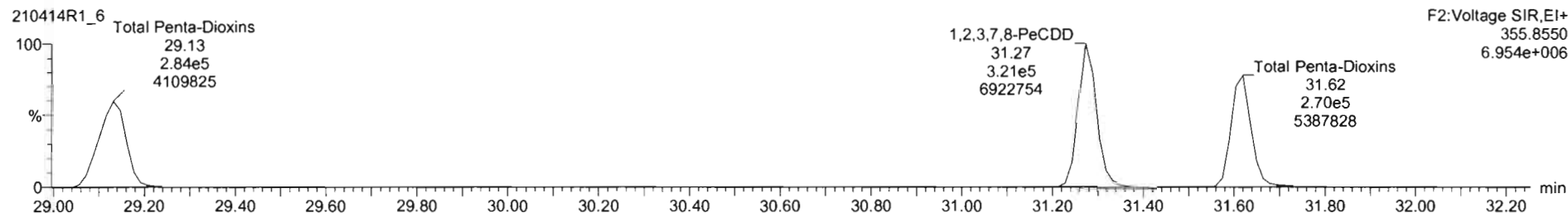
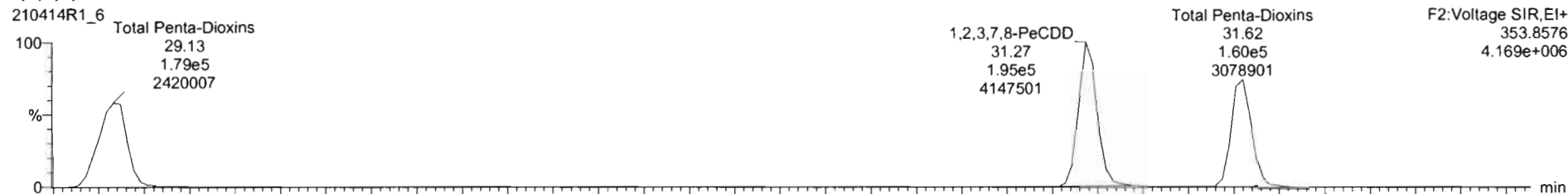


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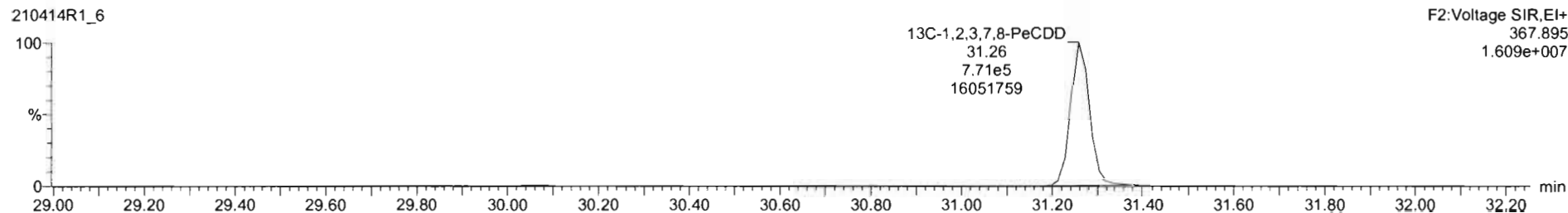
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1,2,3,7,8-PeCDD



13C-1,2,3,7,8-PeCDD



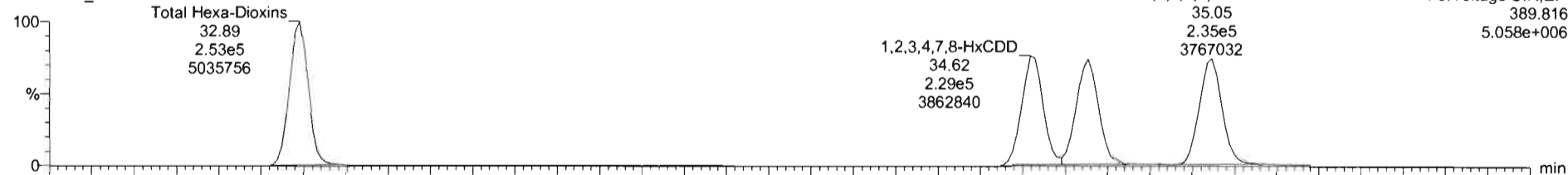
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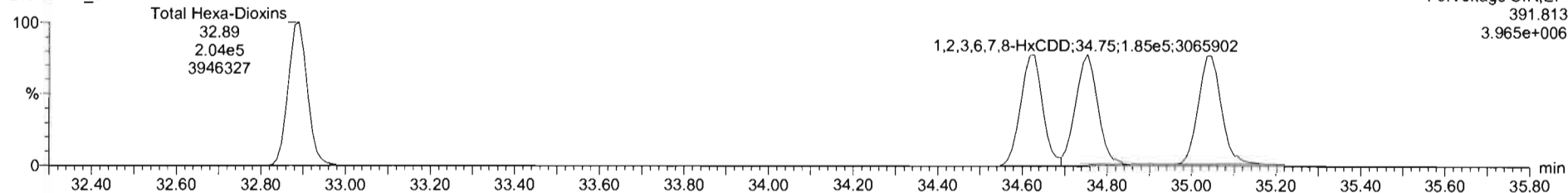
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1,2,3,4,7,8-HxCDD

210414R1_6

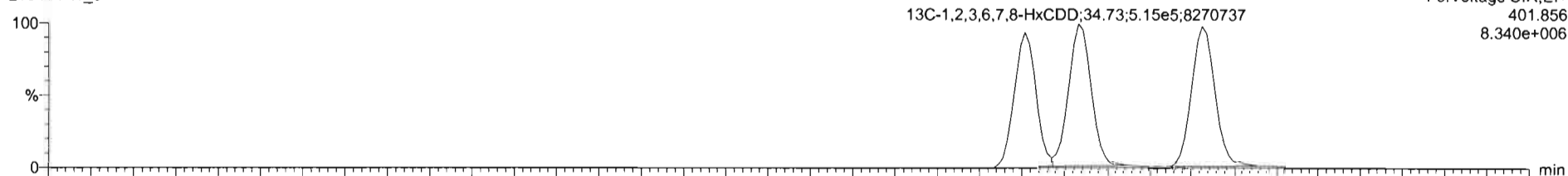


210414R1_6

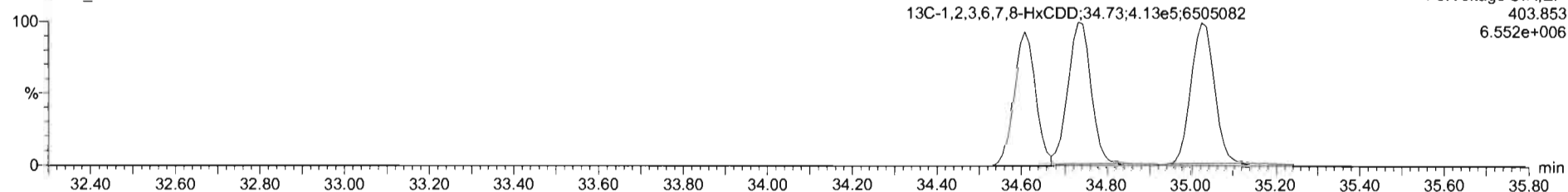


13C-1,2,3,4,7,8-HxCDD

210414R1_6



210414R1_6



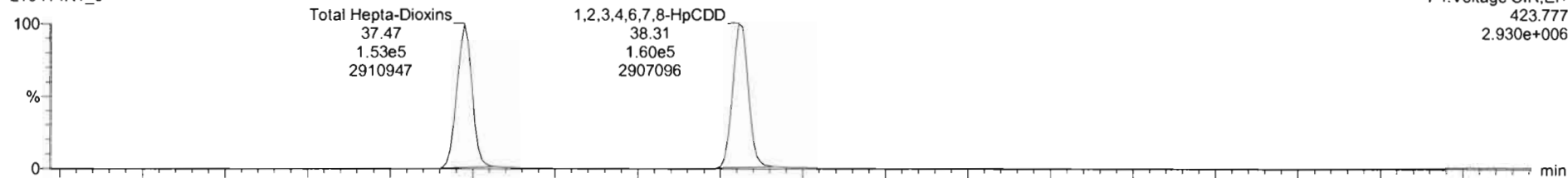
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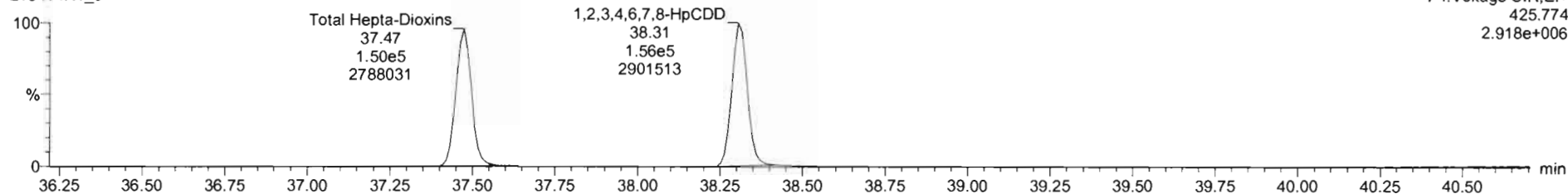
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1,2,3,4,6,7,8-HpCDD

210414R1_6

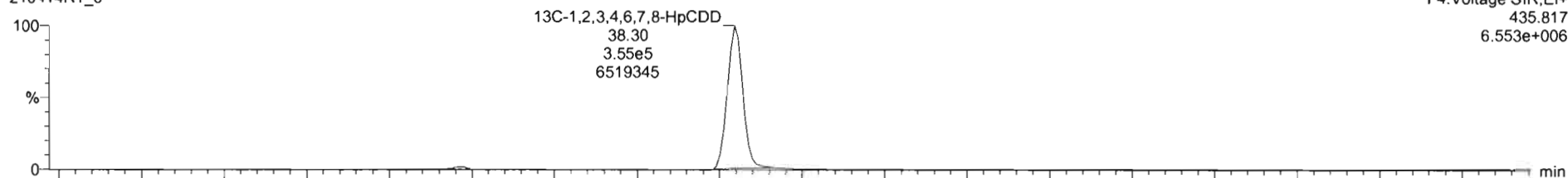


210414R1_6

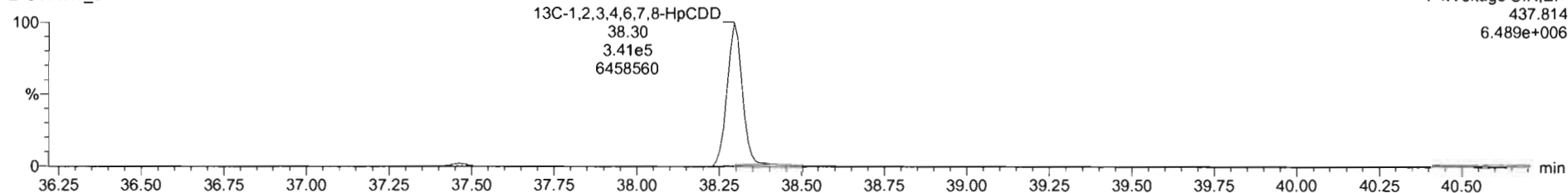


13C-1,2,3,4,6,7,8-HpCDD

210414R1_6



210414R1_6



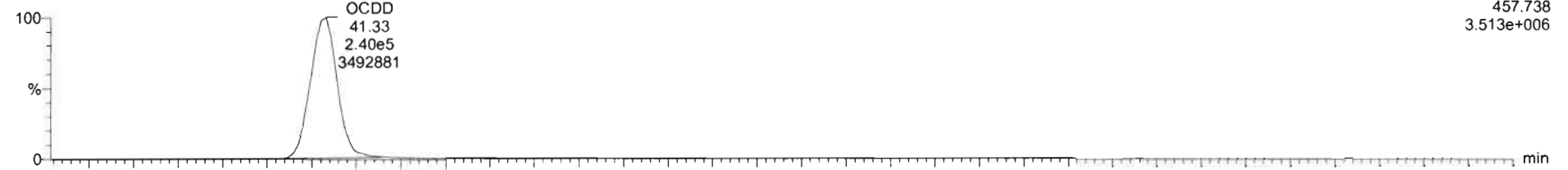
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

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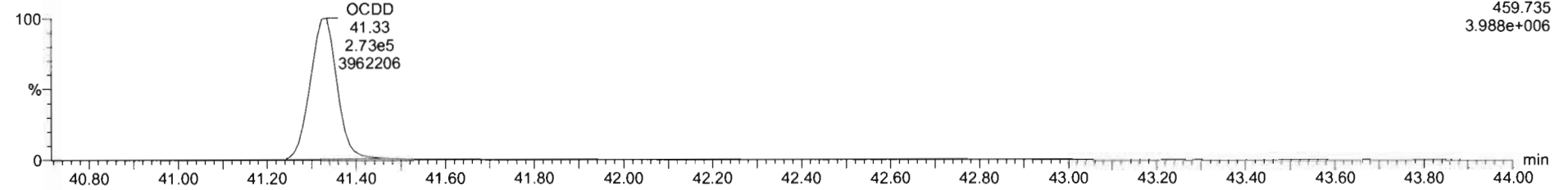
OCDD

210414R1_6



F5:Voltage SIR,EI+
457.738
3.513e+006

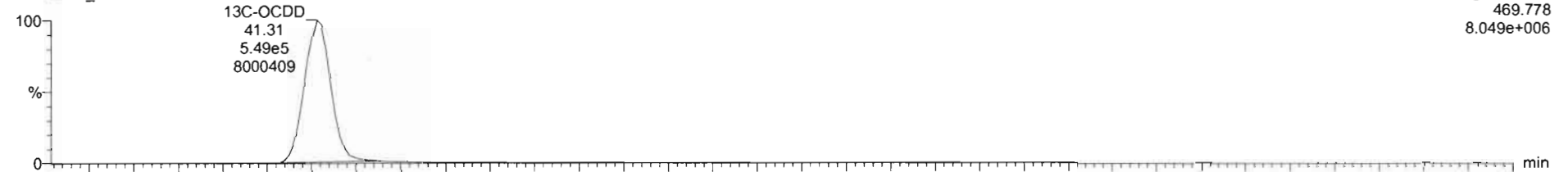
210414R1_6



F5:Voltage SIR,EI+
459.735
3.988e+006

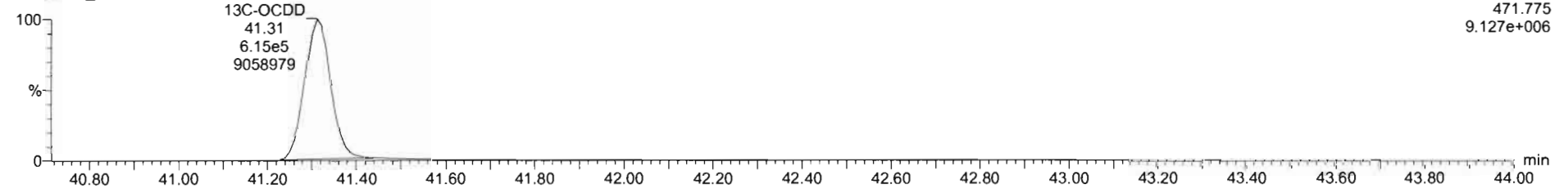
13C-OCDD

210414R1_6



F5:Voltage SIR,EI+
469.778
8.049e+006

210414R1_6



F5:Voltage SIR,EI+
471.775
9.127e+006

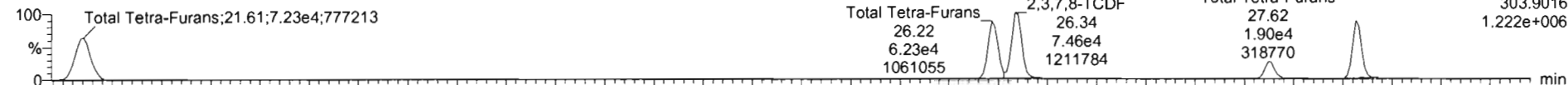
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

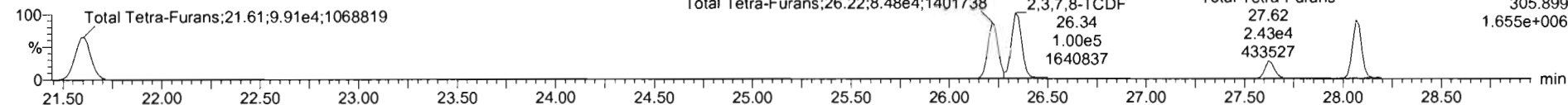
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2,3,7,8-TCDF

210414R1_6

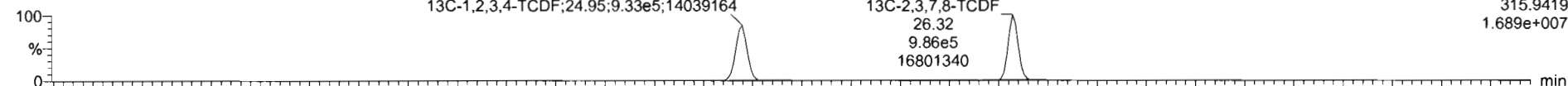


210414R1_6

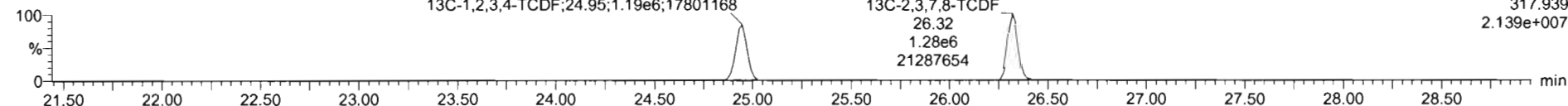


13C-2,3,7,8-TCDF

210414R1_6

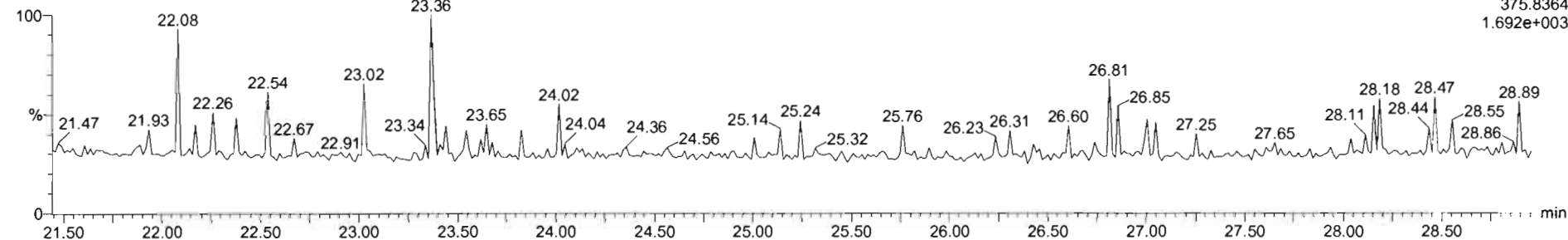


210414R1_6



DPE1

210414R1_6



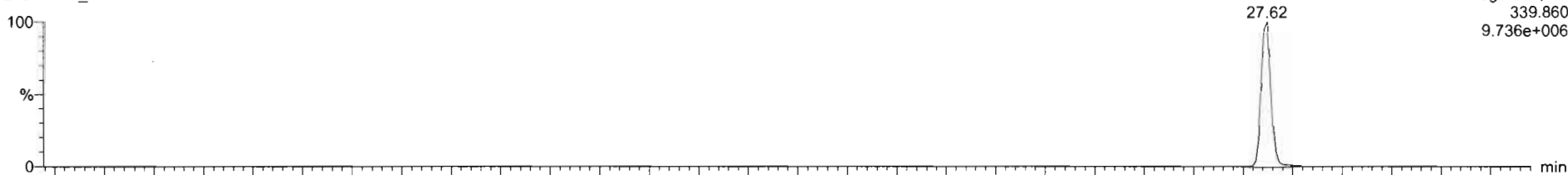
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Printed: Thursday, April 15, 2021 09:17:45 Pacific Daylight Time

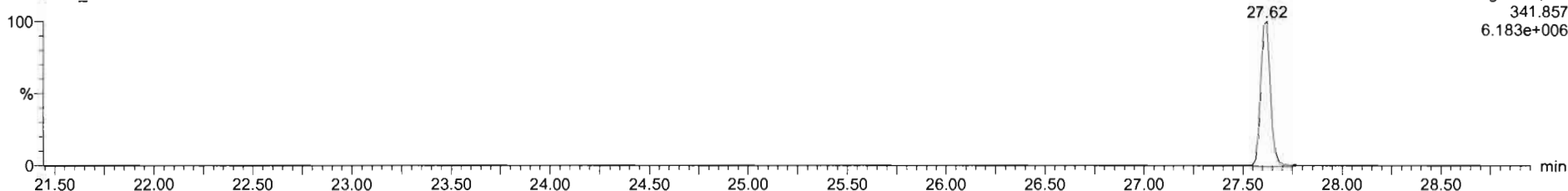
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1st Func. Penta-Furans

210414R1_6

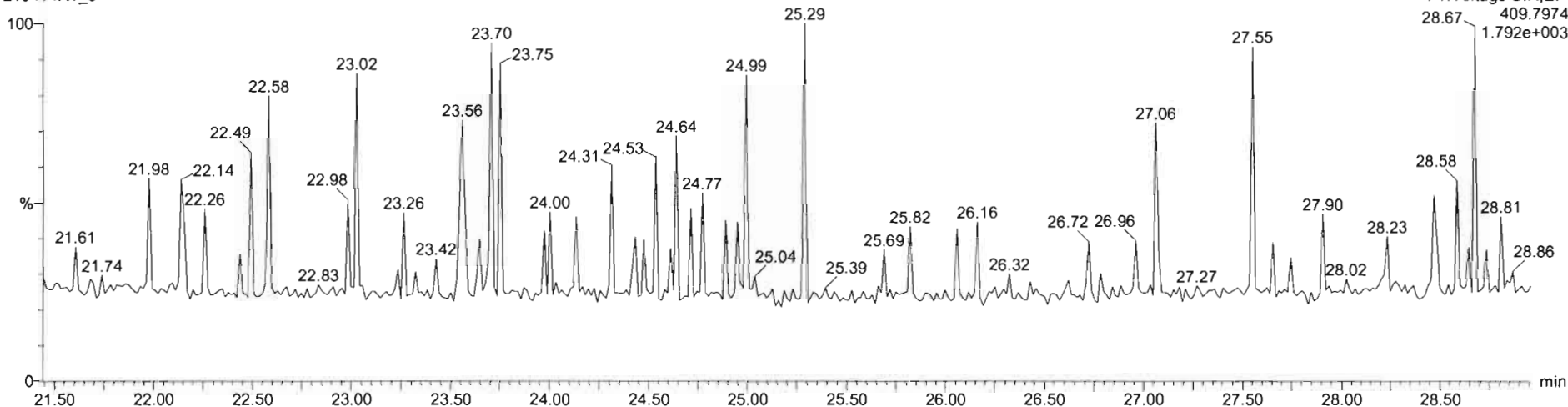


210414R1_6



DPE6

210414R1_6



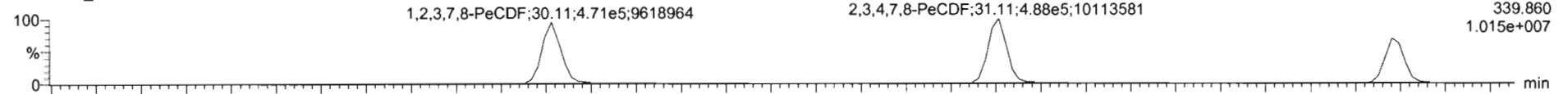
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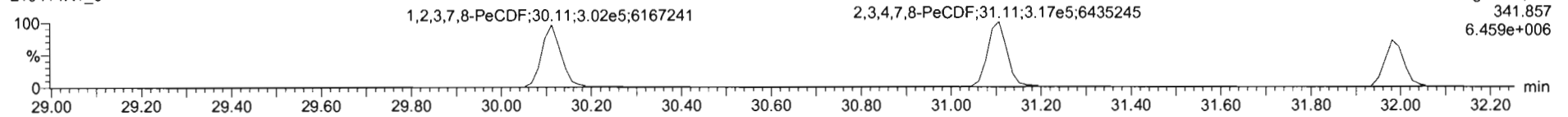
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1,2,3,7,8-PeCDF

210414R1_6

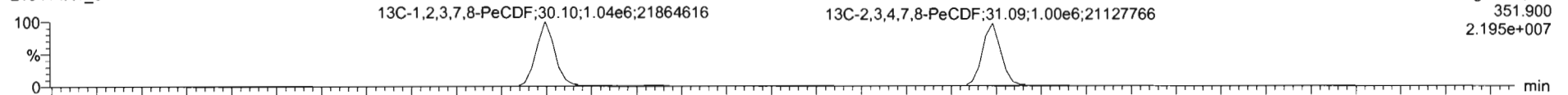


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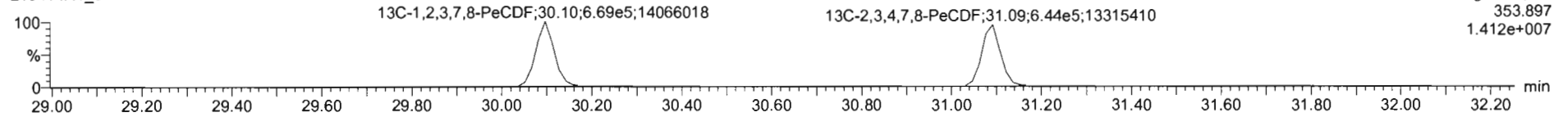


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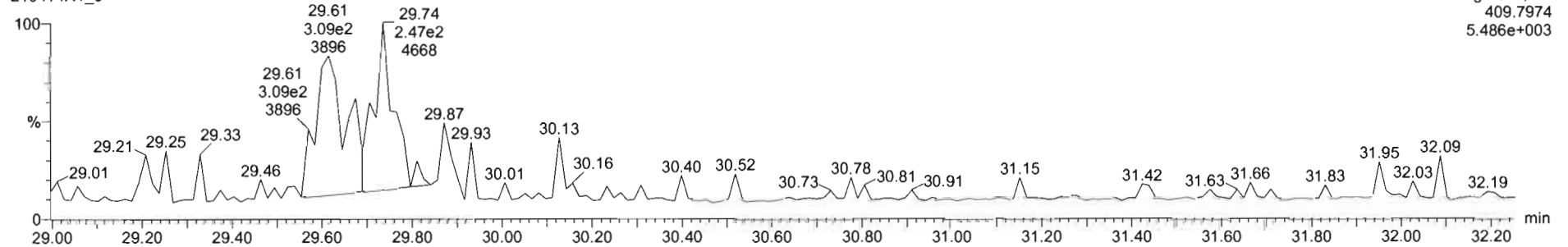


210414R1_6



DPE2

210414R1_6

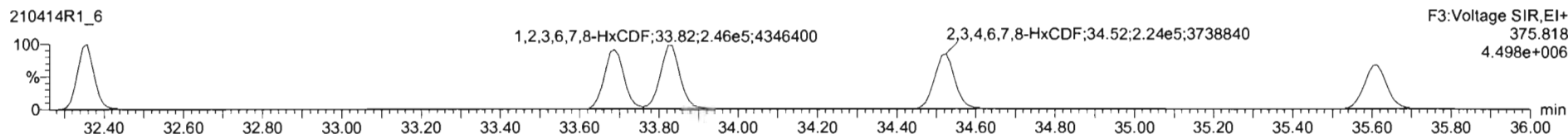
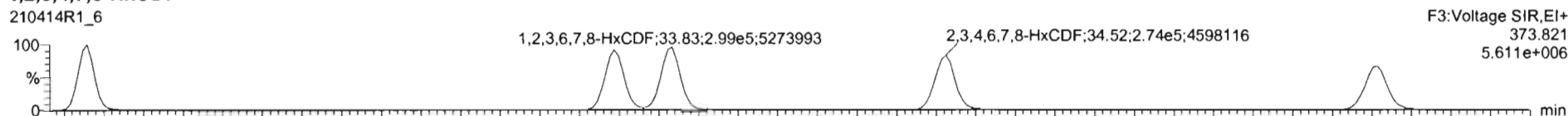


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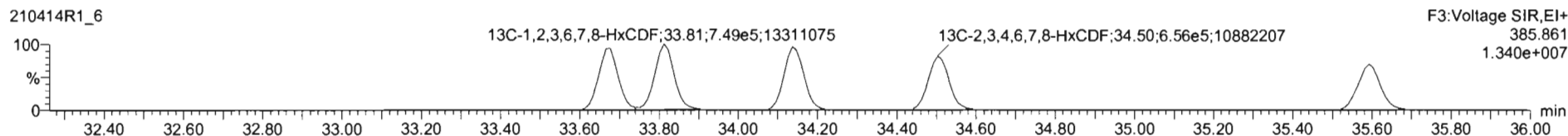
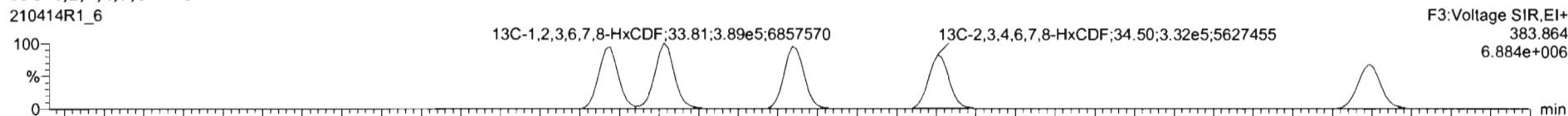
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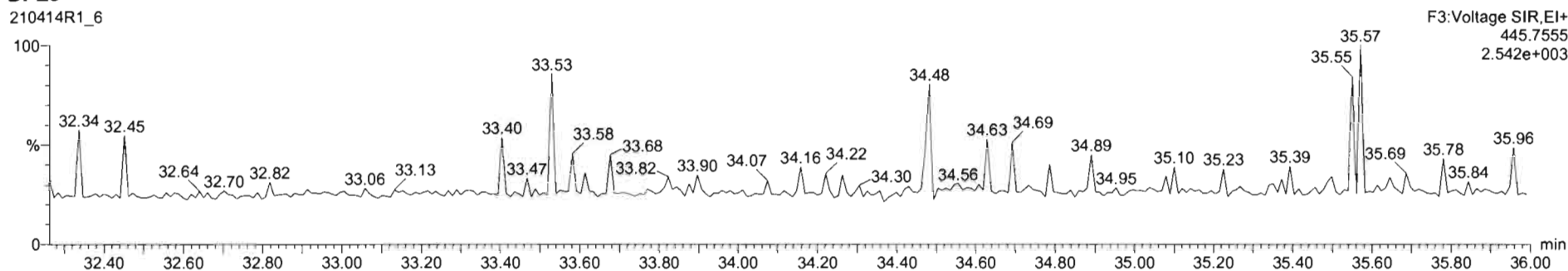
1,2,3,4,7,8-HxCDF



13C-1,2,3,4,7,8-HxCDF



DPE3



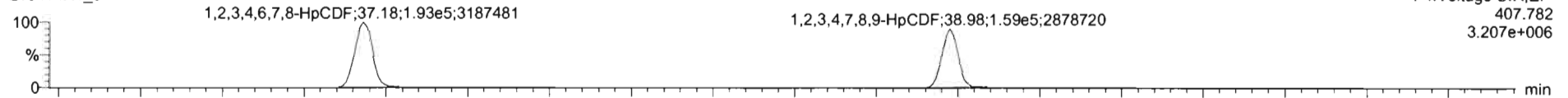
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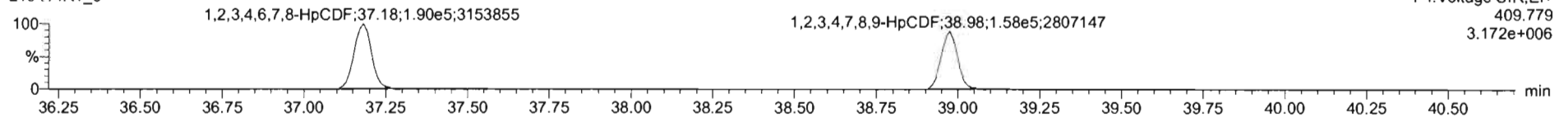
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1,2,3,4,6,7,8-HpCDF

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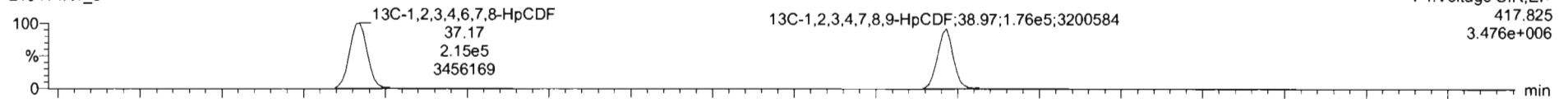


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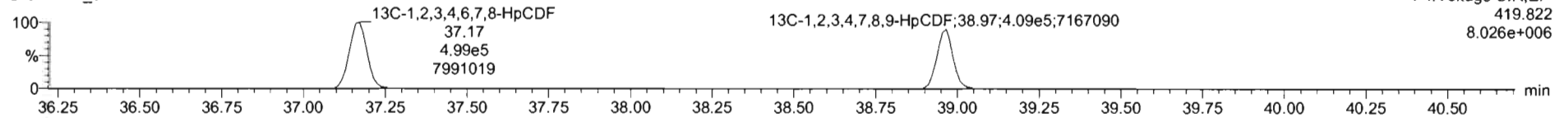


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210414R1_6

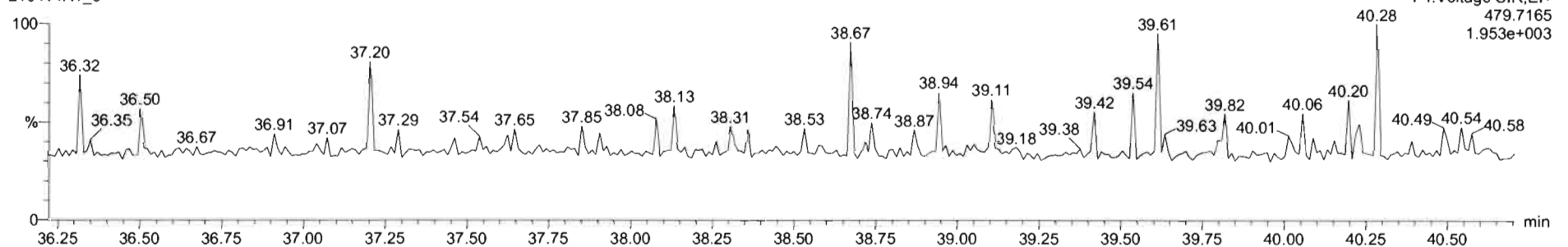


210414R1_6



DPE4

210414R1_6

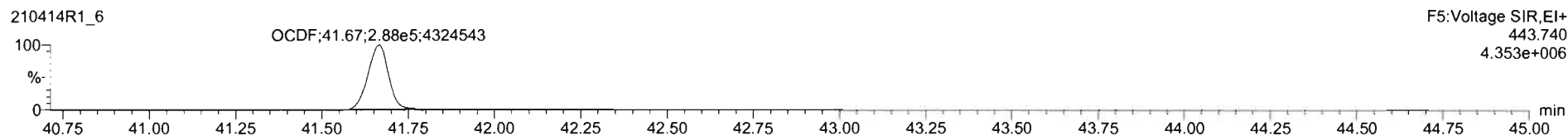
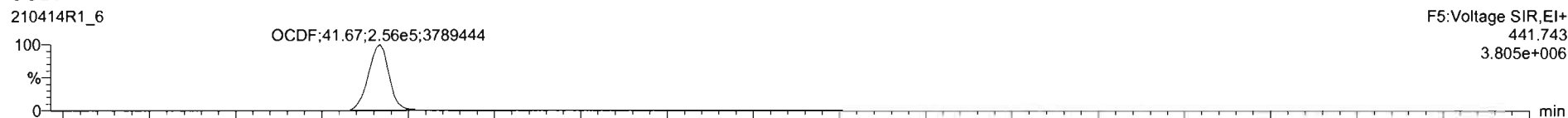


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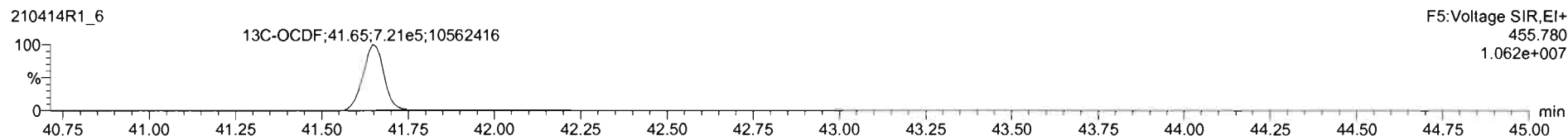
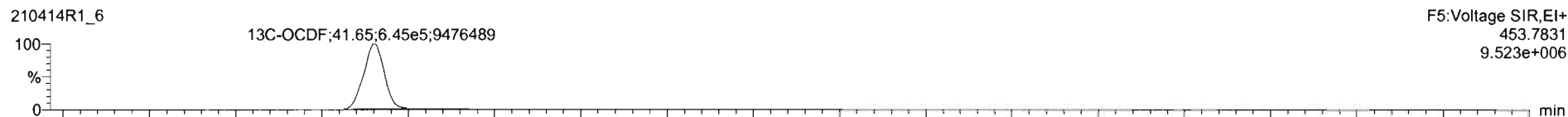
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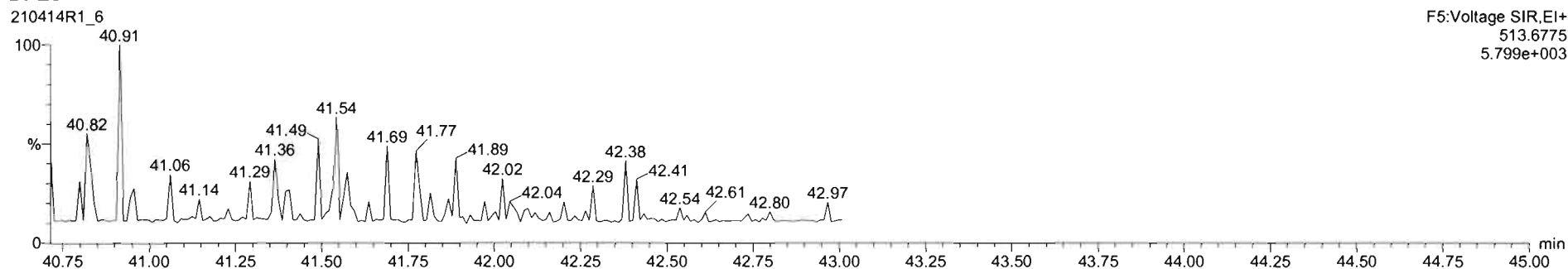
OCDF



13C-OCDF



DPE5



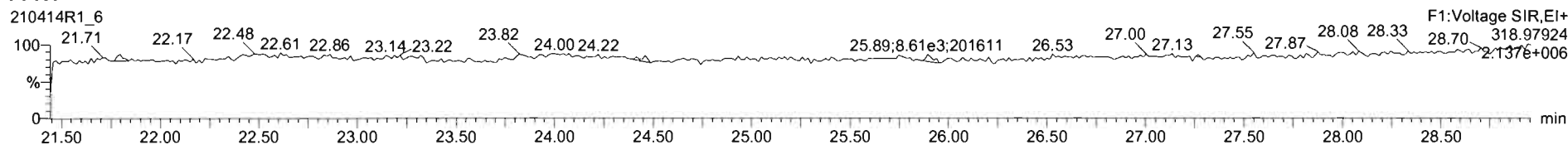
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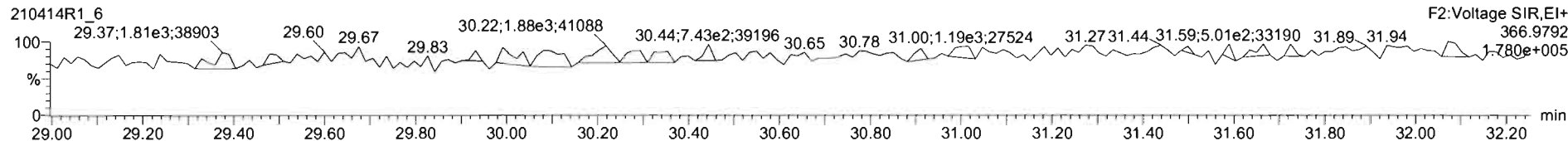
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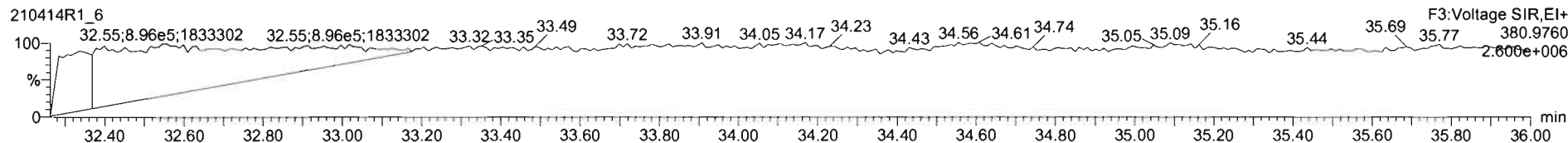
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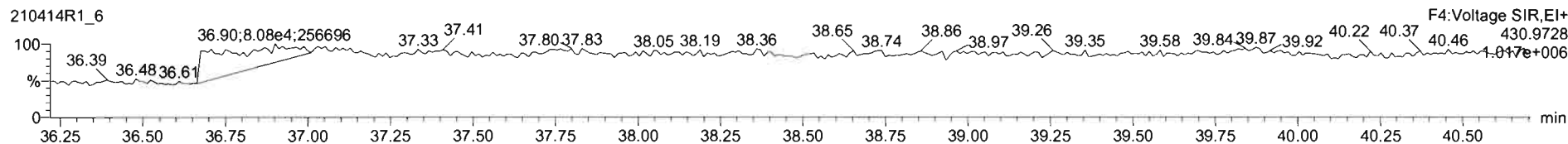
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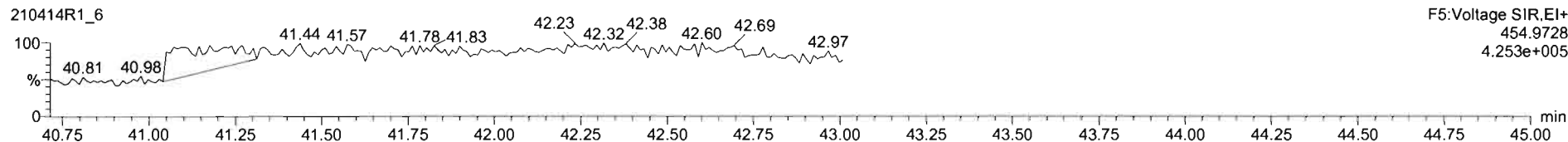
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PFK4

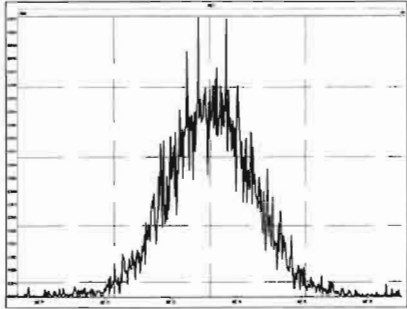


PFK5

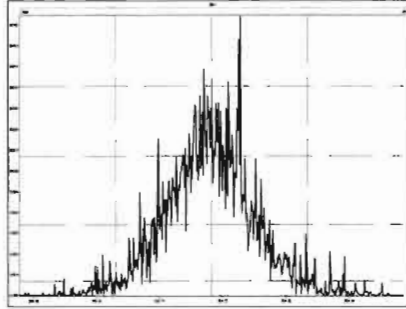


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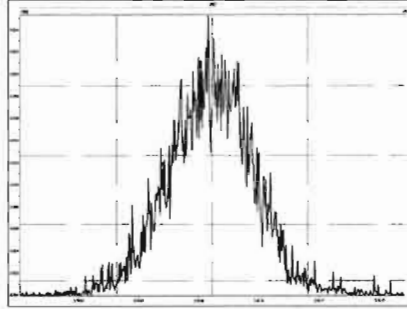
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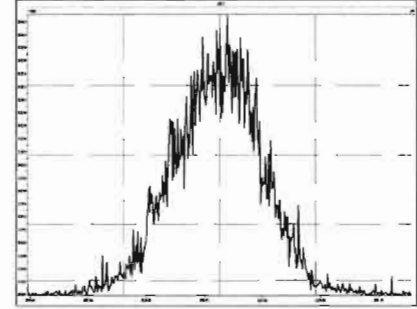
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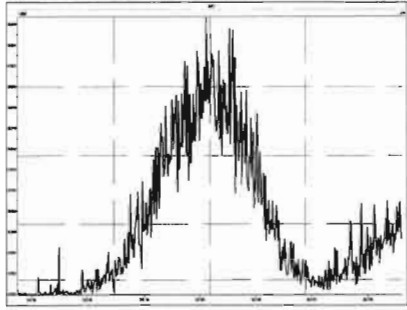
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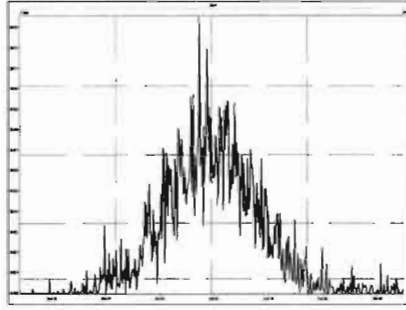
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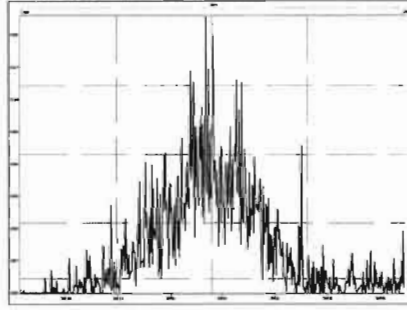
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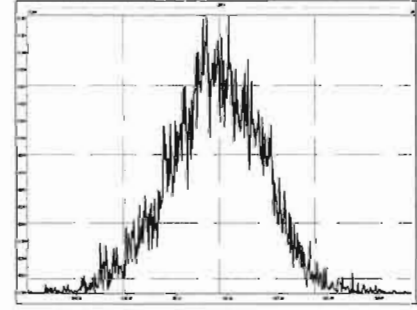
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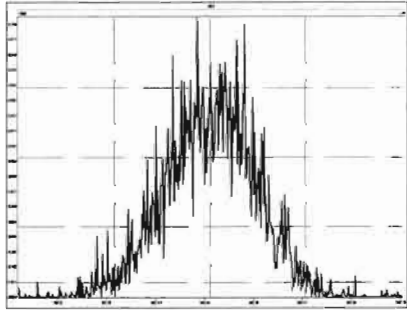
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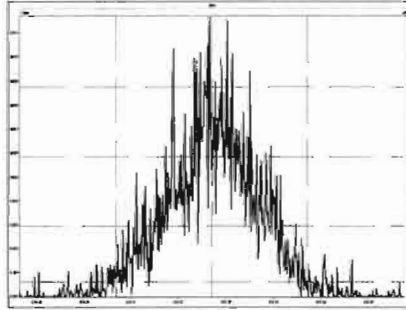
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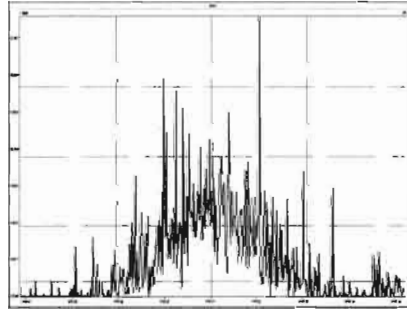
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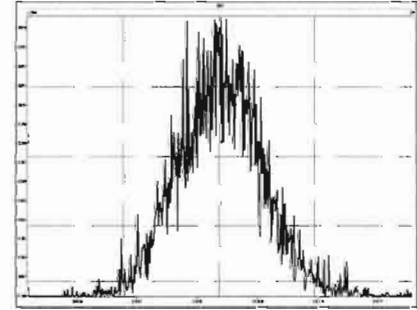
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M 416.9760 R 17057

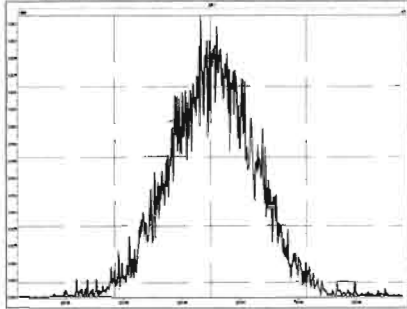


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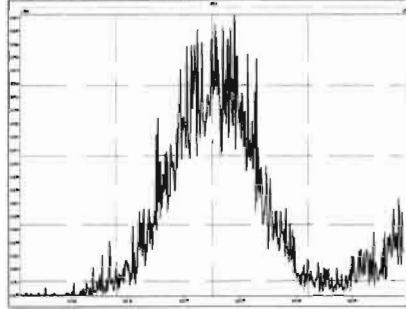


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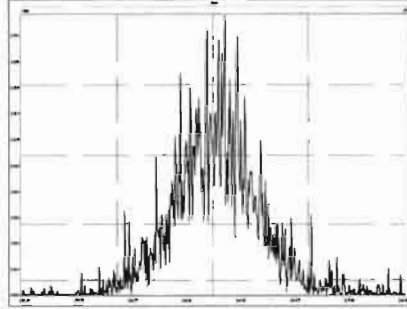
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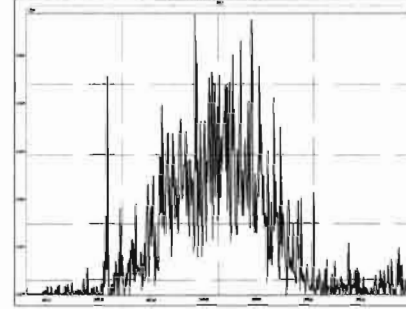
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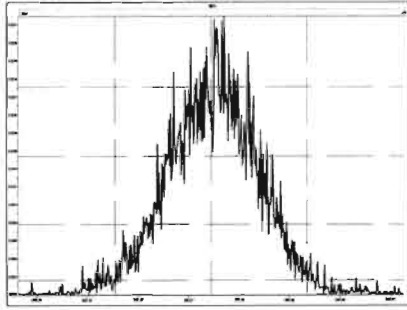
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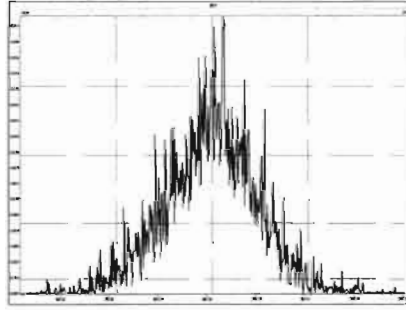
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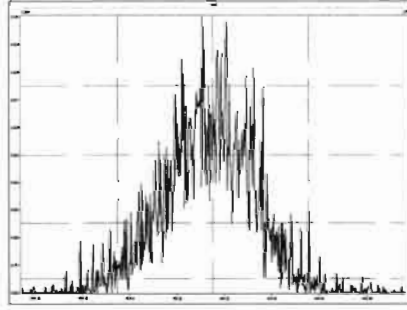
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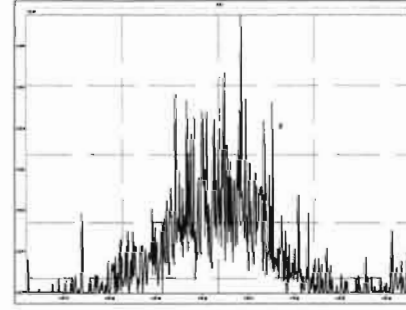
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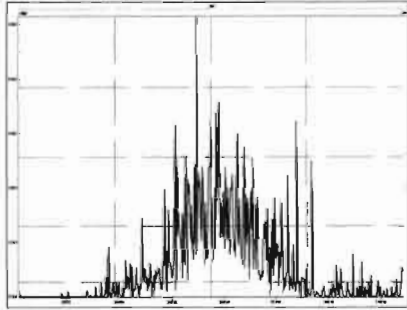
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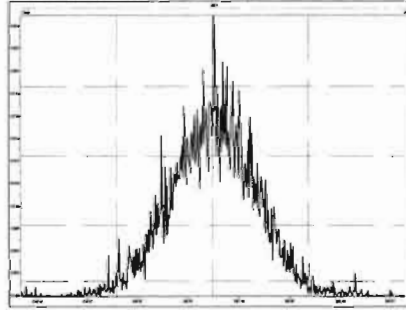
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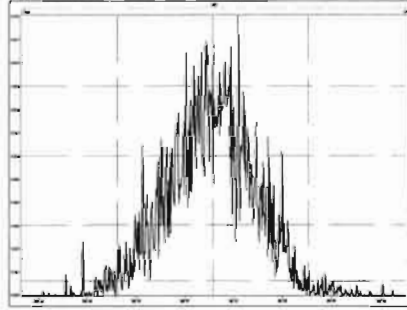
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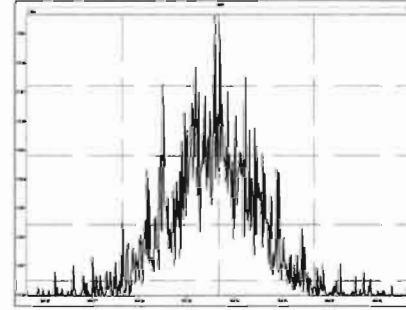
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M 392.9760 R 12392

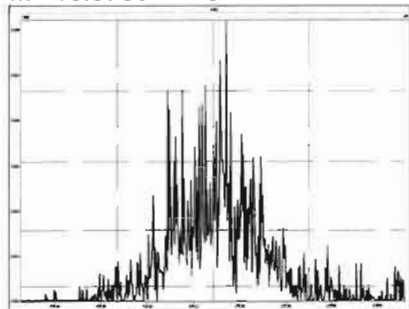


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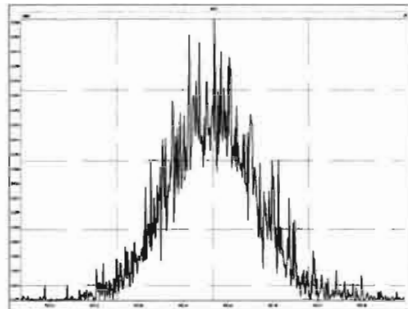


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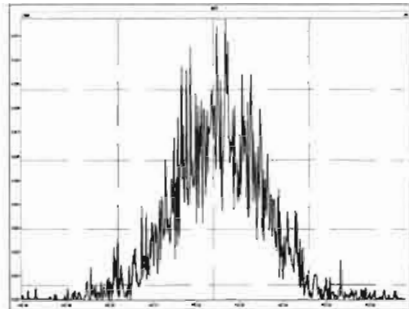
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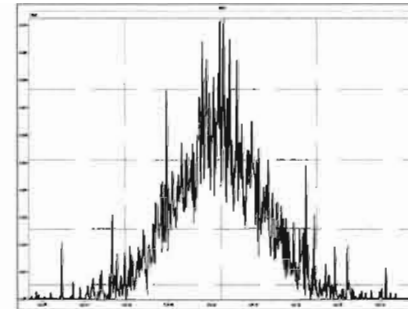
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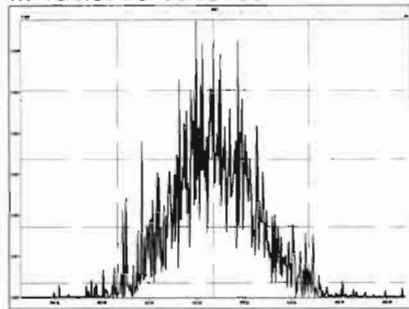
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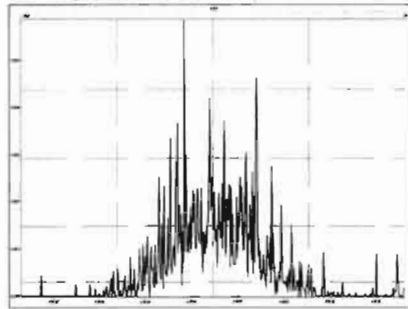
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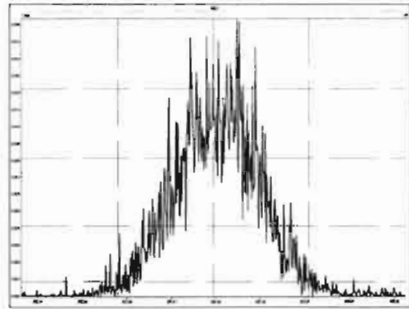
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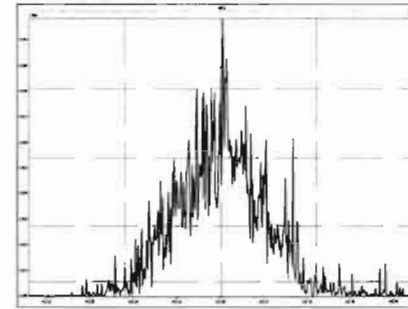
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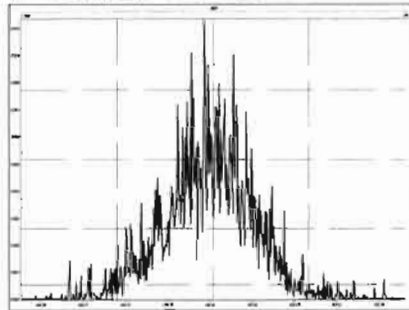
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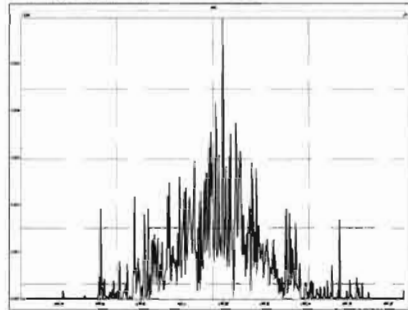
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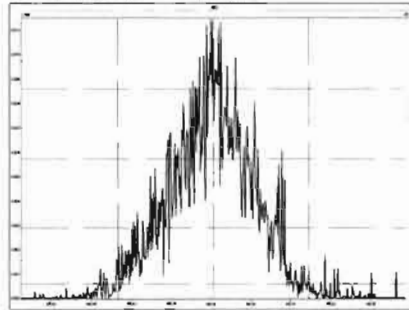
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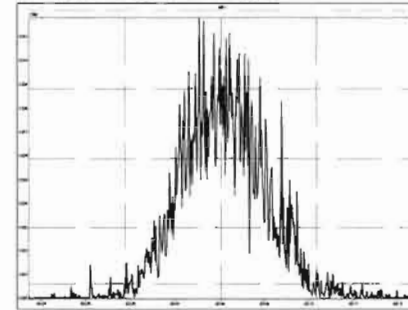
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M 480.9696 R 12005

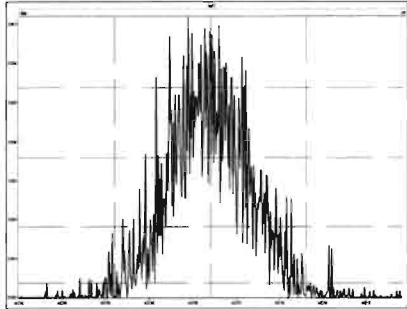


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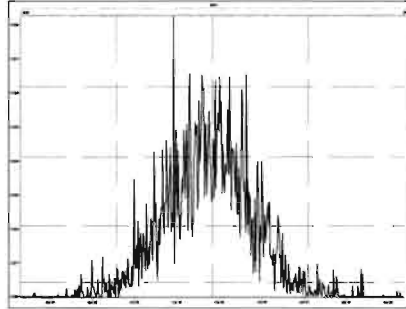


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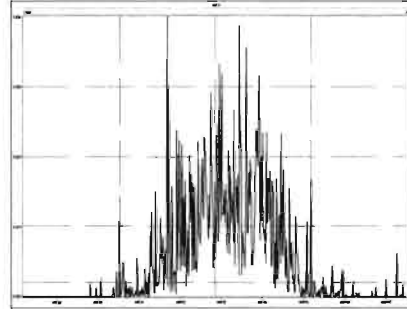
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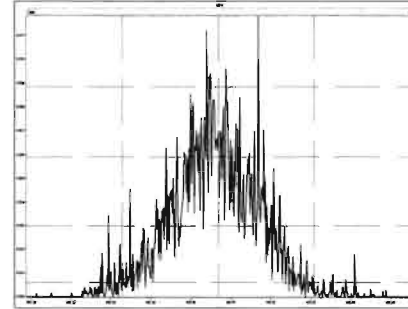
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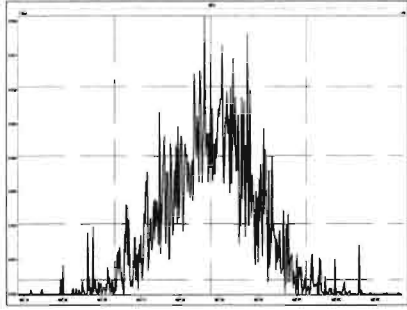
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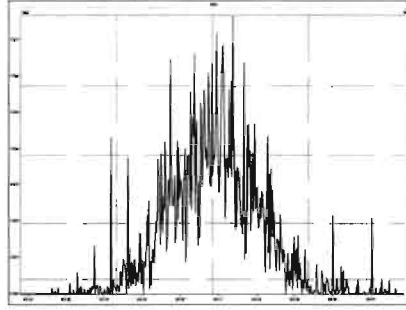
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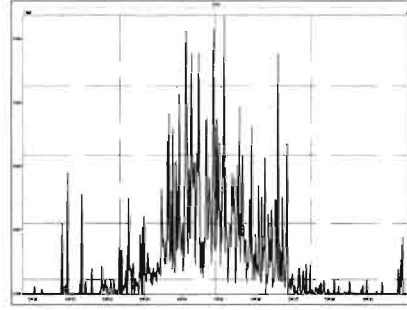
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M 504.9696 R 15745



M 516.9697 R 31899



Dataset: U:\VG12.PRO\Results\210414R1\210414R1_7.qld

Last Altered: Thursday, April 15, 2021 10:13:51 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:15:16 Pacific Daylight Time

WIN 04/15/21
DF04/15/21

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

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1	1 2,3,7,8-TCDD	1.42e5	0.76	NO	0.929	1.000	26.945	26.93	1.001	1.001	9.5905	95.9	0.0124	9.59
2	2 1,2,3,7,8-PeCDD	4.59e5	0.60	NO	0.826	1.000	31.274	31.26	1.001	1.000	48.111	96.2	0.0507	48.1
3	3 1,2,3,4,7,8-HxCDD	3.68e5	1.24	NO	0.972	1.000	34.618	34.61	1.001	1.000	50.163	100	0.114	50.2
4	4 1,2,3,6,7,8-HxCDD	3.95e5	1.23	NO	0.877	1.000	34.744	34.74	1.001	1.001	52.884	106	0.119	52.9
5	5 1,2,3,7,8,9-HxCDD	3.89e5	1.25	NO	0.874	1.000	35.027	35.03	1.000	1.000	49.610	99.2	0.114	49.6
6	6 1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.899	1.000	38.296	38.31	1.000	1.001	48.692	97.4	0.133	48.7
7	7 OCDD	4.57e5	0.87	NO	0.852	1.000	41.310	41.31	1.000	1.000	102.28	102	0.151	102
8	8 2,3,7,8-TCDF	1.58e5	0.75	NO	0.747	1.000	26.309	26.34	1.000	1.001	9.8282	98.3	0.0164	9.83
9	9 1,2,3,7,8-PeCDF	6.59e5	1.57	NO	0.877	1.000	30.085	30.10	1.000	1.000	47.679	95.4	0.0773	47.7
10	10 2,3,4,7,8-PeCDF	6.89e5	1.54	NO	0.962	1.000	31.098	31.09	1.001	1.000	50.877	102	0.0782	50.9
11	11 1,2,3,4,7,8-HxCDF	4.77e5	1.21	NO	0.920	1.000	33.665	33.68	1.000	1.001	52.893	106	0.0947	52.9
12	12 1,2,3,6,7,8-HxCDF	5.01e5	1.22	NO	0.936	1.000	33.822	33.81	1.001	1.000	51.115	102	0.0912	51.1
13	13 2,3,4,6,7,8-HxCDF	4.67e5	1.22	NO	0.973	1.000	34.514	34.50	1.001	1.000	52.771	106	0.105	52.8
14	14 1,2,3,7,8,9-HxCDF	3.77e5	1.23	NO	0.940	1.000	35.592	35.60	1.000	1.001	50.158	100	0.134	50.2
15	15 1,2,3,4,6,7,8-HpCDF	3.61e5	1.01	NO	1.05	1.000	37.179	37.17	1.000	1.000	52.180	104	0.130	52.2
16	16 1,2,3,4,7,8,9-HpCDF	2.83e5	1.01	NO	1.05	1.000	38.966	38.97	1.000	1.000	49.625	99.2	0.143	49.6
17	17 OCDF	4.60e5	0.87	NO	0.771	1.000	41.645	41.65	1.000	1.000	100.69	101	0.140	101
18	18 13C-2,3,7,8-TCDD	1.59e6	0.76	NO	1.10	1.000	26.897	26.91	1.026	1.027	102.93	103	0.0486	
19	19 13C-1,2,3,7,8-PeCDD	1.16e6	0.63	NO	0.864	1.000	31.205	31.24	1.190	1.192	95.556	95.6	0.0791	
20	20 13C-1,2,3,4,7,8-HxCDD	7.55e5	1.25	NO	0.746	1.000	34.577	34.60	1.013	1.014	97.877	97.9	0.180	
21	21 13C-1,2,3,6,7,8-HxCDD	8.52e5	1.24	NO	0.847	1.000	34.717	34.72	1.017	1.017	97.415	97.4	0.158	
22	22 13C-1,2,3,7,8,9-HxCDD	8.97e5	1.24	NO	0.868	1.000	35.003	35.02	1.026	1.026	100.01	100	0.154	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.19e5	1.02	NO	0.664	1.000	38.269	38.28	1.121	1.122	90.141	90.1	0.290	
24	24 13C-OCDD	1.05e6	0.90	NO	0.561	1.000	41.303	41.30	1.210	1.210	180.80	90.4	0.297	
25	25 13C-2,3,7,8-TCDF	2.15e6	0.77	NO	1.09	1.000	26.307	26.31	1.003	1.003	96.733	96.7	0.0460	
26	26 13C-1,2,3,7,8-PeCDF	1.58e6	1.57	NO	0.809	1.000	30.048	30.08	1.146	1.147	95.821	95.8	0.119	
27	27 13C-2,3,4,7,8-PeCDF	1.41e6	1.58	NO	0.803	1.000	31.034	31.08	1.184	1.185	86.278	86.3	0.120	
28	28 13C-1,2,3,4,7,8-HxCDF	9.81e5	0.51	NO	1.01	1.000	33.659	33.66	0.986	0.986	93.862	93.9	0.192	
29	29 13C-1,2,3,6,7,8-HxCDF	1.05e6	0.51	NO	1.07	1.000	33.788	33.80	0.990	0.990	94.332	94.3	0.181	
30	30 13C-2,3,4,6,7,8-HxCDF	9.09e5	0.51	NO	0.910	1.000	34.485	34.49	1.010	1.011	96.732	96.7	0.214	
31	31 13C-1,2,3,7,8,9-HxCDF	8.01e5	0.52	NO	0.828	1.000	35.573	35.58	1.042	1.043	93.545	93.5	0.235	

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Printed: Thursday, April 15, 2021 10:15:16 Pacific Daylight Time

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.60e5	0.43	NO	0.661	1.000	37.150	37.16	1.089	1.089	96.587	96.6	0.244	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.45e5	0.43	NO	0.566	1.000	38.938	38.95	1.141	1.141	93.255	93.3	0.285	
34	34 13C-OCDF	1.18e6	0.87	NO	0.663	1.000	41.634	41.64	1.220	1.220	172.93	86.5	0.209	
35	35 37Cl-2,3,7,8-TCDD	2.78e5			2.07	1.000	27.125	26.93	1.035	1.027	9.5990	96.0	0.00554	
36	36 13C-1,2,3,4-TCDD	1.40e6	0.77	NO	1.00	1.000	26.290	26.22	1.000	1.000	100.00	100	0.0537	
37	37 13C-1,2,3,4-TCDF	2.03e6	0.78	NO	1.00	1.000	25.020	24.93	1.000	1.000	100.00	100	0.0503	
38	38 13C-1,2,3,4,6,9-HxCDF	1.03e6	0.51	NO	1.00	1.000	34.190	34.13	1.000	1.000	100.00	100	0.194	

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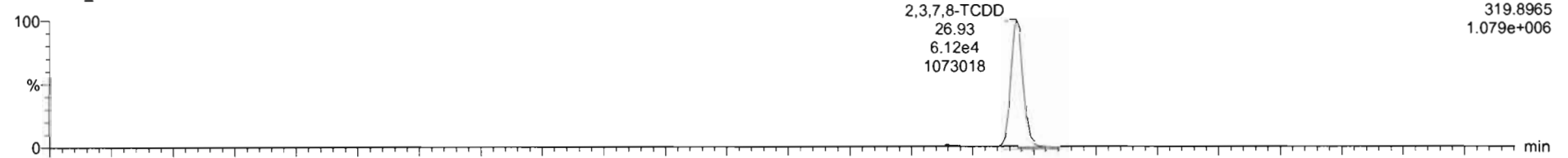
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Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-04-14-21.cdb 15 Apr 2021 09:26:26

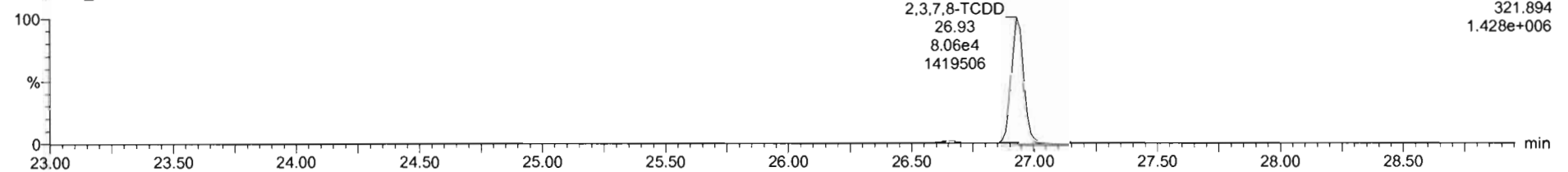
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2,3,7,8-TCDD

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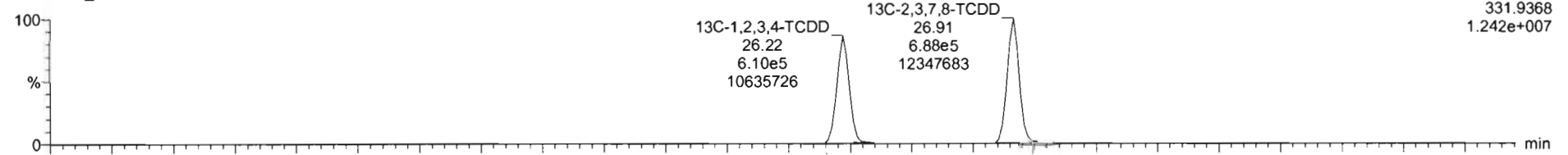


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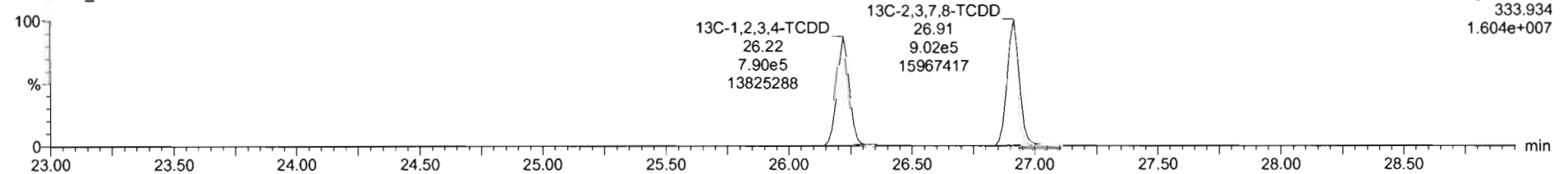


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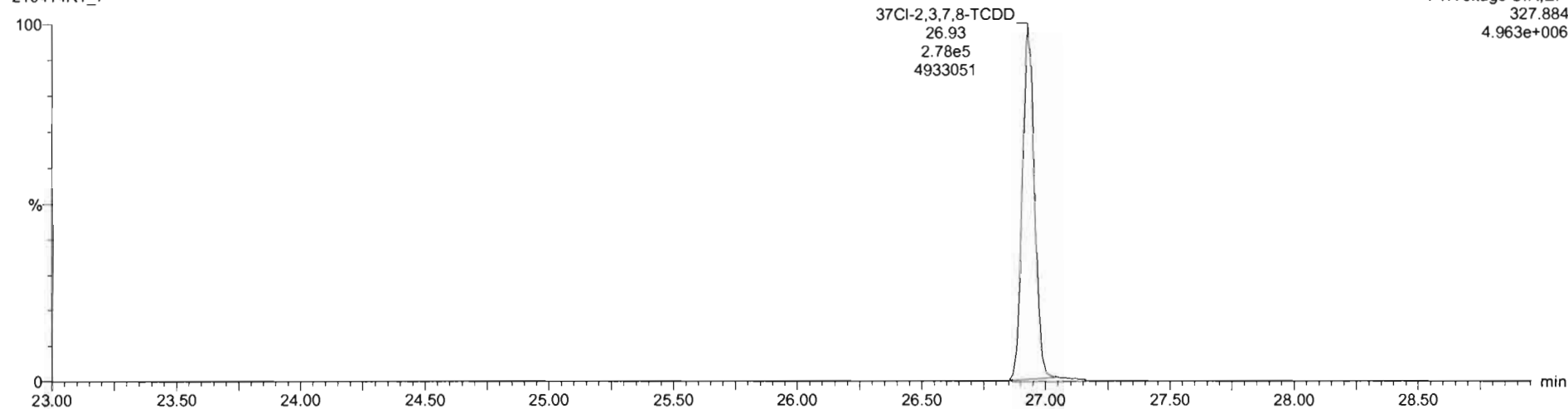
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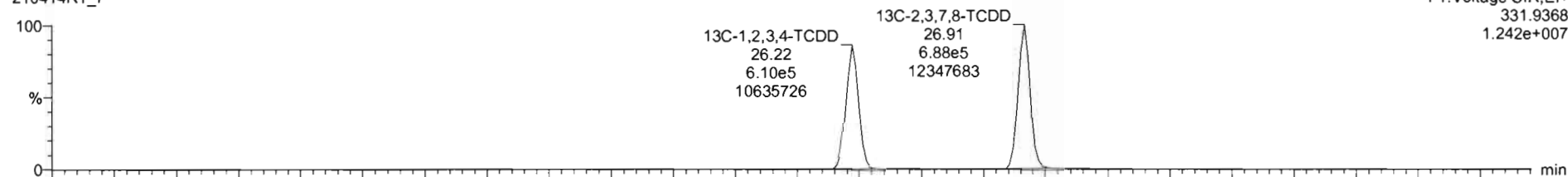
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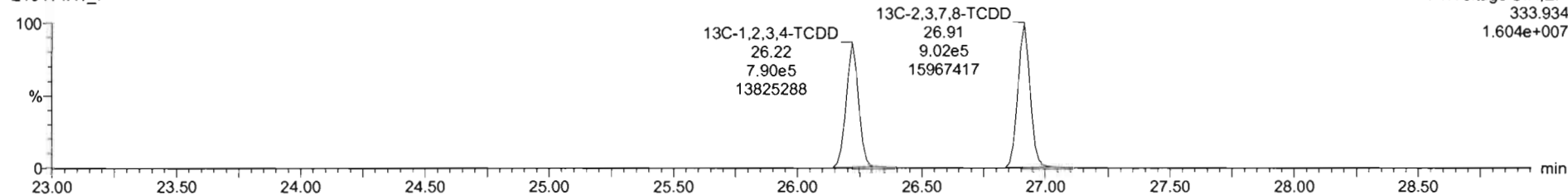


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210414R1_7



210414R1_7



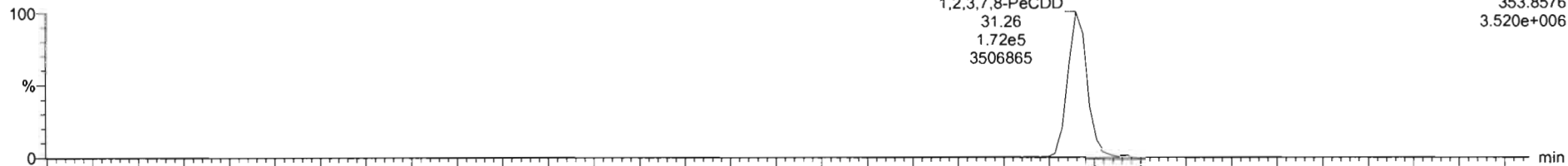
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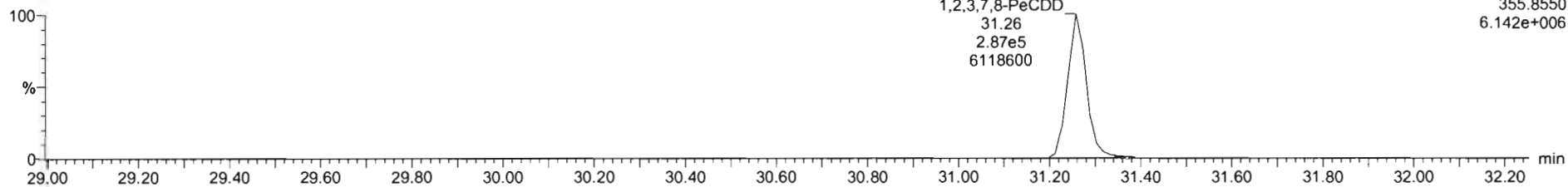
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1,2,3,7,8-PeCDD

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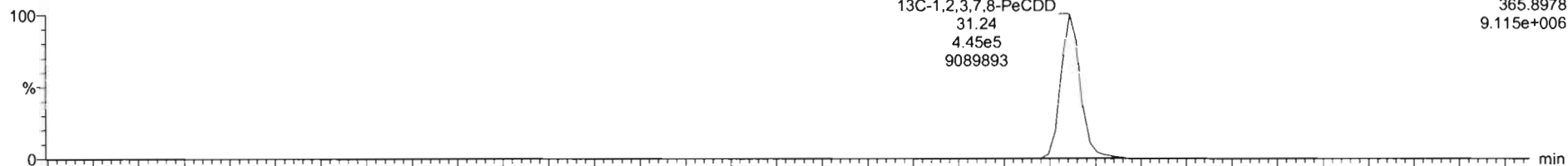


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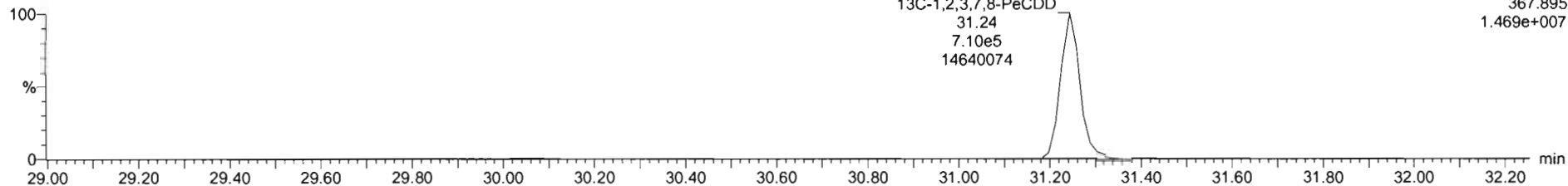


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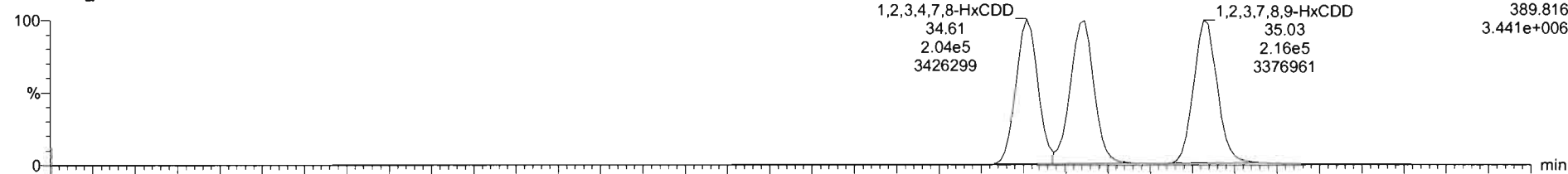
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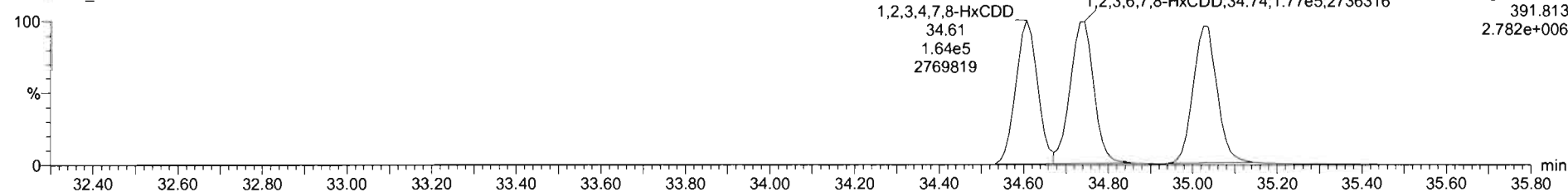
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210414R1_7



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3.441e+006

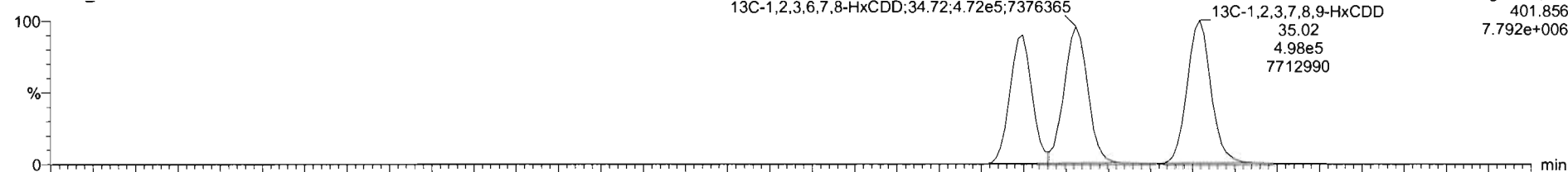
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391.813
2.782e+006

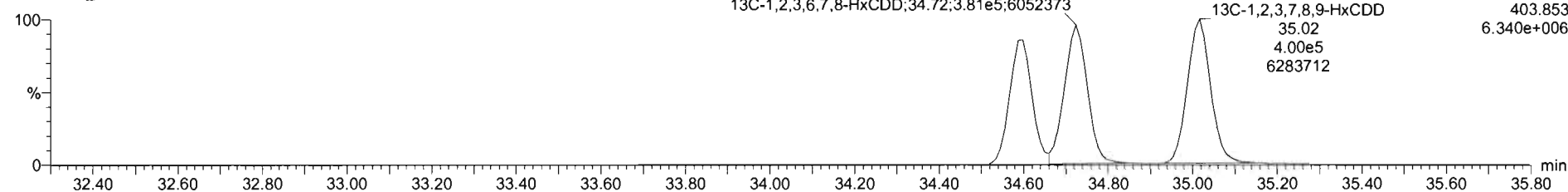
13C-1,2,3,4,7,8-HxCDD

210414R1_7



F3: Voltage SIR, EI+
401.856
7.792e+006

210414R1_7



F3: Voltage SIR, EI+
403.853
6.340e+006

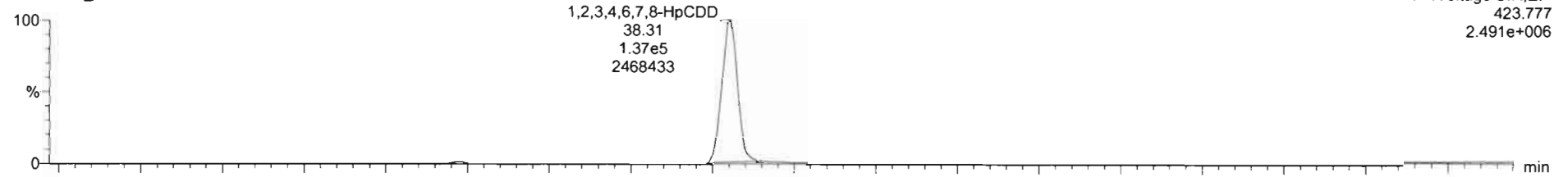
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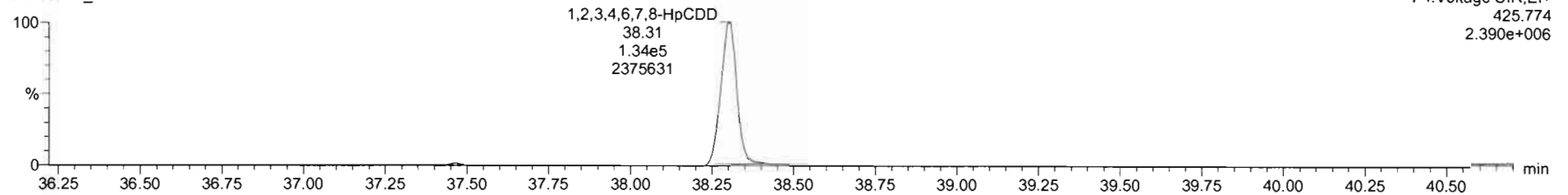
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1,2,3,4,6,7,8-HpCDD

210414R1_7

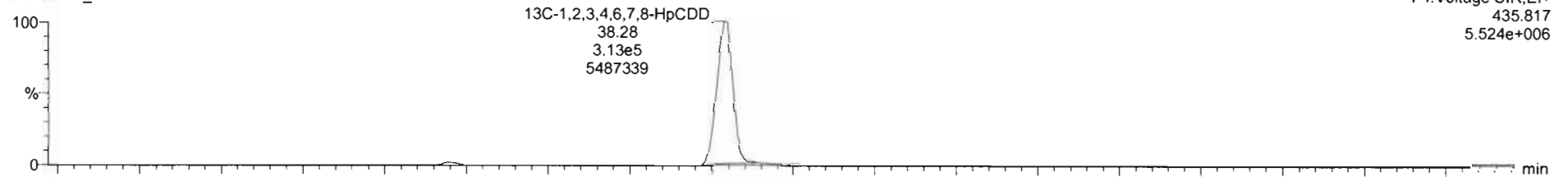


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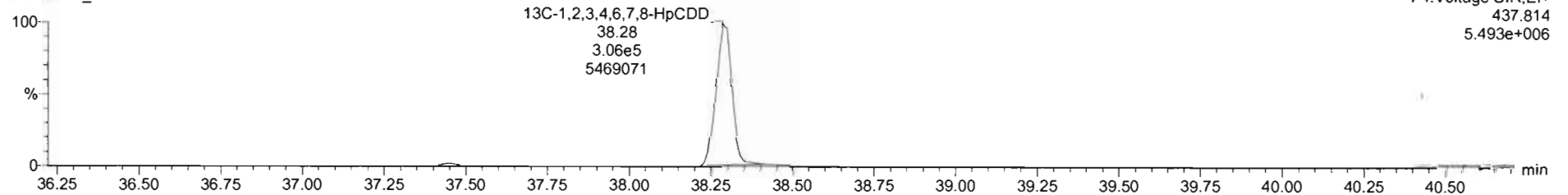


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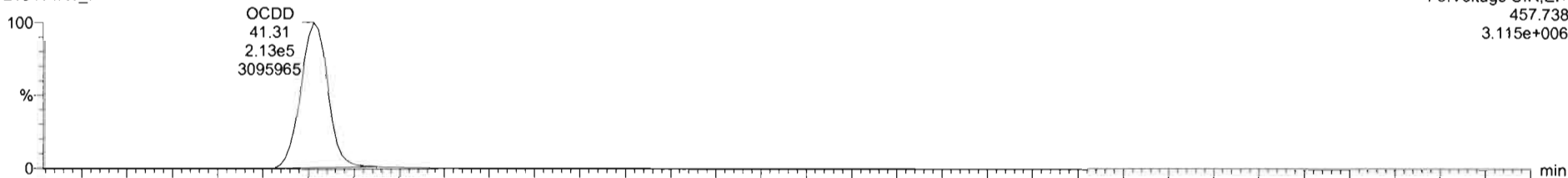
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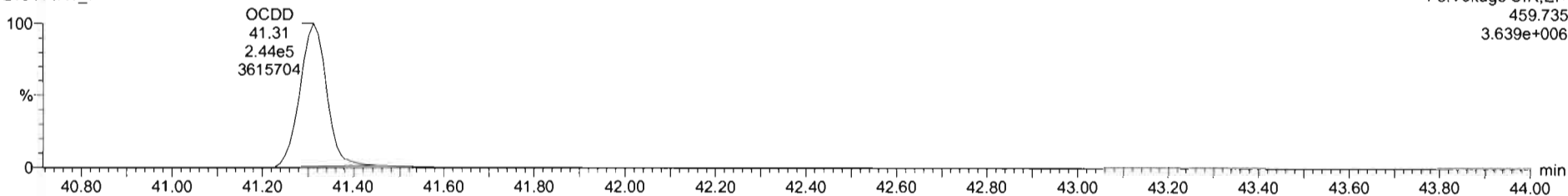
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OCDD

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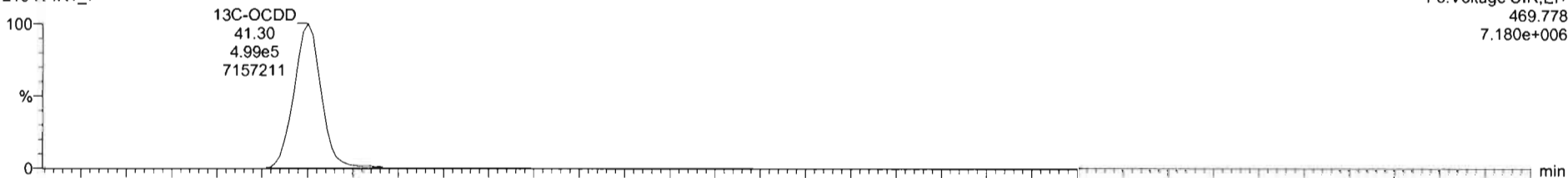


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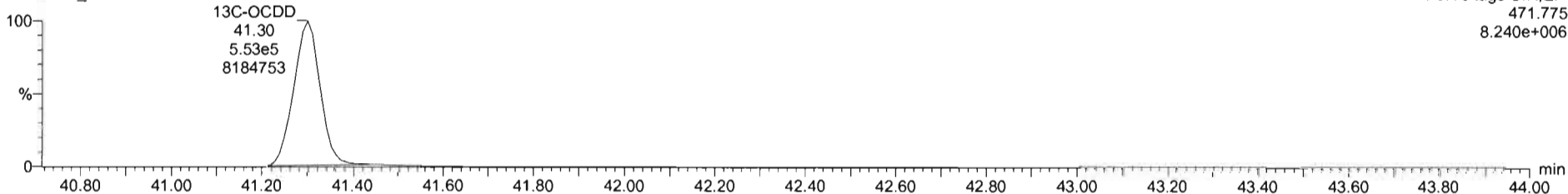


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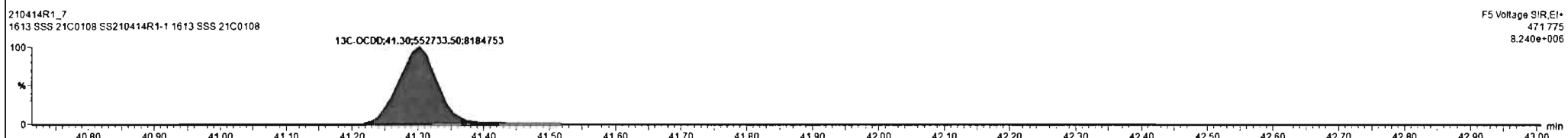
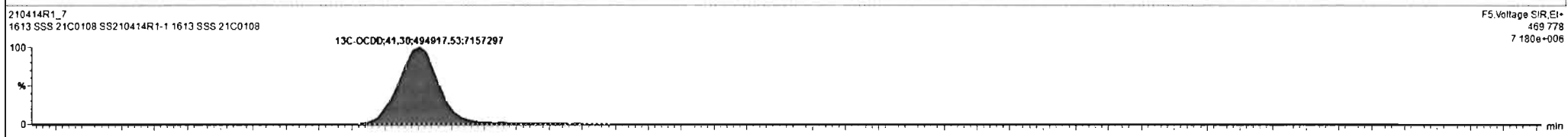
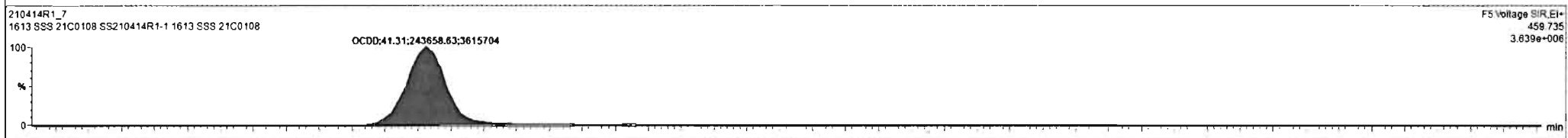
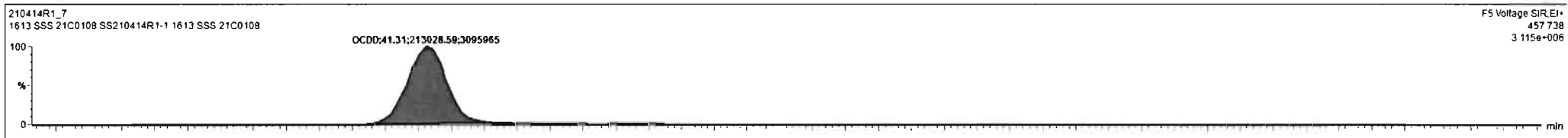
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210414R1_7



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.42e5	0.76	NO	0.9201	1.000	26.43	1.001	9.50	95.9	0.0124	9.50
2 1,2,3,7,8-PeCDD	4.59e5	0.60	NO	0.8257	1.000	31.26	1.000	48.1	96.2	0.0507	48.1
3 1,2,3,4,7,8-HxCDD	3.68e5	1.24	NO	0.9725	1.000	34.61	1.000	50.2	100	0.114	50.2
4 1,2,3,6,7,8-HxCDD	3.95e5	1.23	NO	0.8771	1.000	34.74	1.001	52.9	106	0.119	52.9
5 1,2,3,7,8,9-HxCDD	3.69e5	1.25	NO	0.8739	1.000	35.03	1.000	49.6	99.2	0.114	49.6
6 1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.8967	1.000	38.31	1.001	48.7	97.4	0.133	48.7
7 OCDD	4.57e5	0.87	NO	0.8524	1.000	41.31	1.000	102	102	0.151	102
8 2,3,7,8-TCDF	1.58e5	0.75	NO	0.7466	1.000	26.34	1.001	8.83	98.3	0.0164	8.83
9 1,2,3,7,8-PeCDF	6.59e5	1.57	NO	0.8771	1.000	30.10	1.000	47.7	95.4	0.0773	47.7
10 2,3,4,7,8-PeCDF	6.89e5	1.54	NO	0.9621	1.000	31.09	1.000	50.9	102	0.0782	50.9
11 1,2,3,4,7,8-HxCDF	4.77e5	1.21	NO	0.9202	1.000	33.68	1.001	52.9	106	0.0947	52.9
12 1,2,3,6,7,8-HxCDF	5.01e5	1.22	NO	0.9363	1.000	33.81	1.000	51.1	102	0.0912	51.1
13 2,3,4,6,7,8-HxCDF	4.67e5	1.22	NO	0.9725	1.000	34.50	1.000	52.81	106	0.1051	52.81



Regdx

210414R1_7 CAP NUM

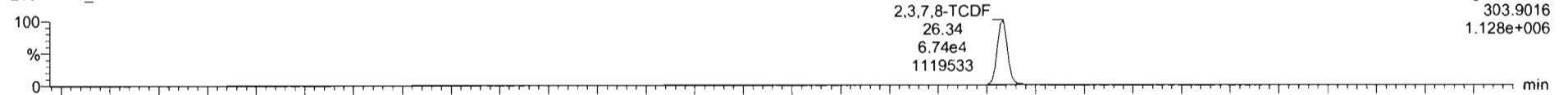
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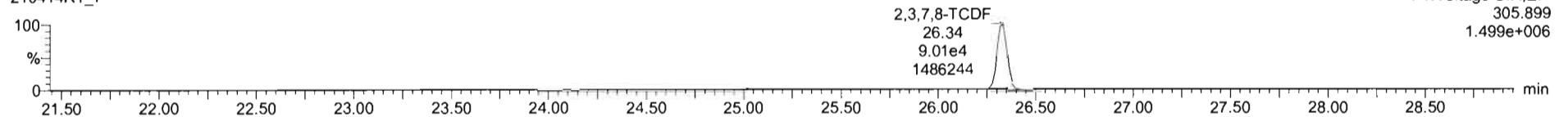
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2,3,7,8-TCDF

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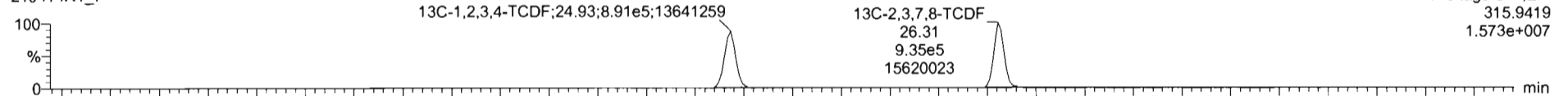


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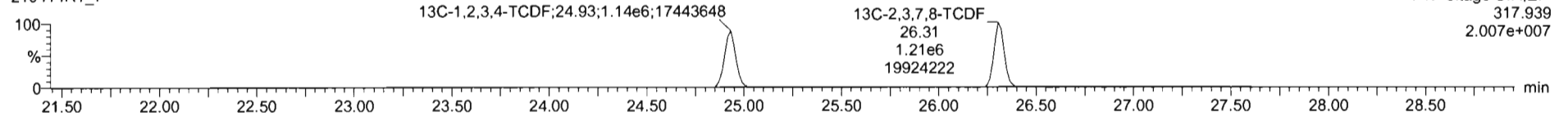


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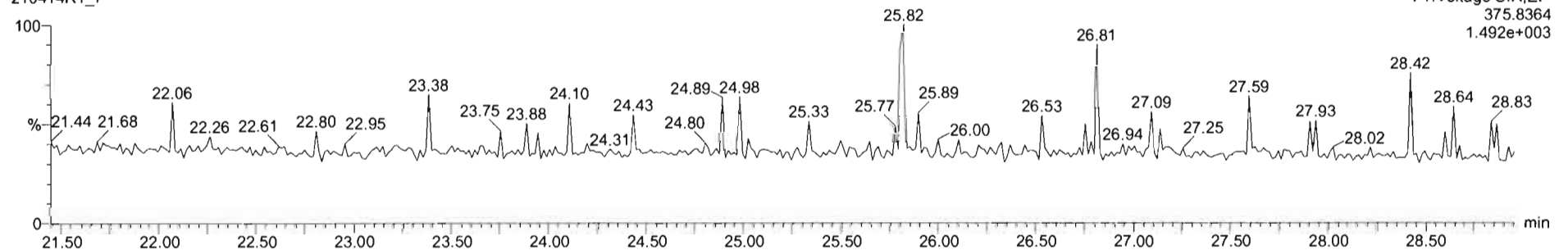


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DPE1

210414R1_7



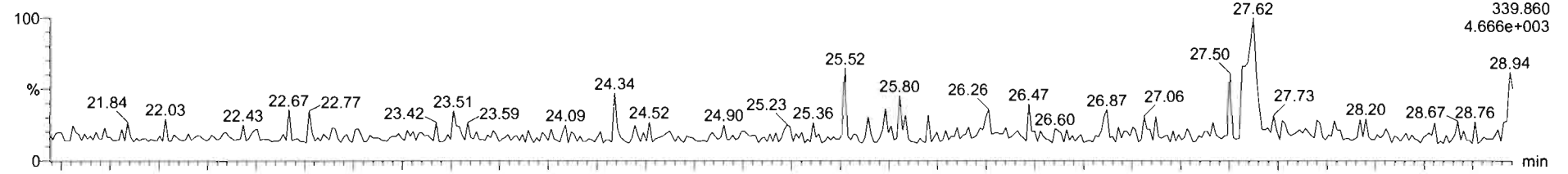
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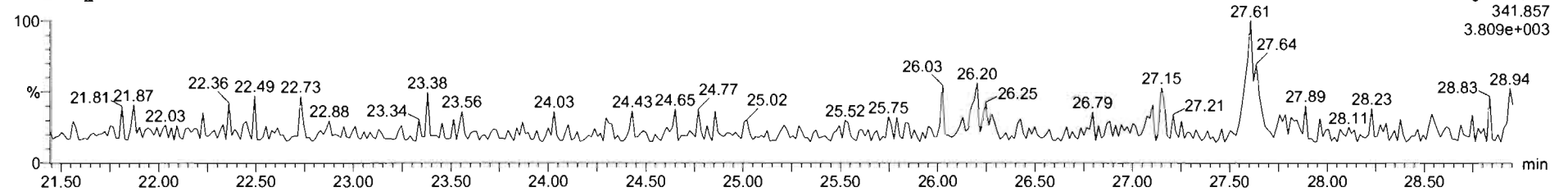
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1st Func. Penta-Furans

210414R1_7

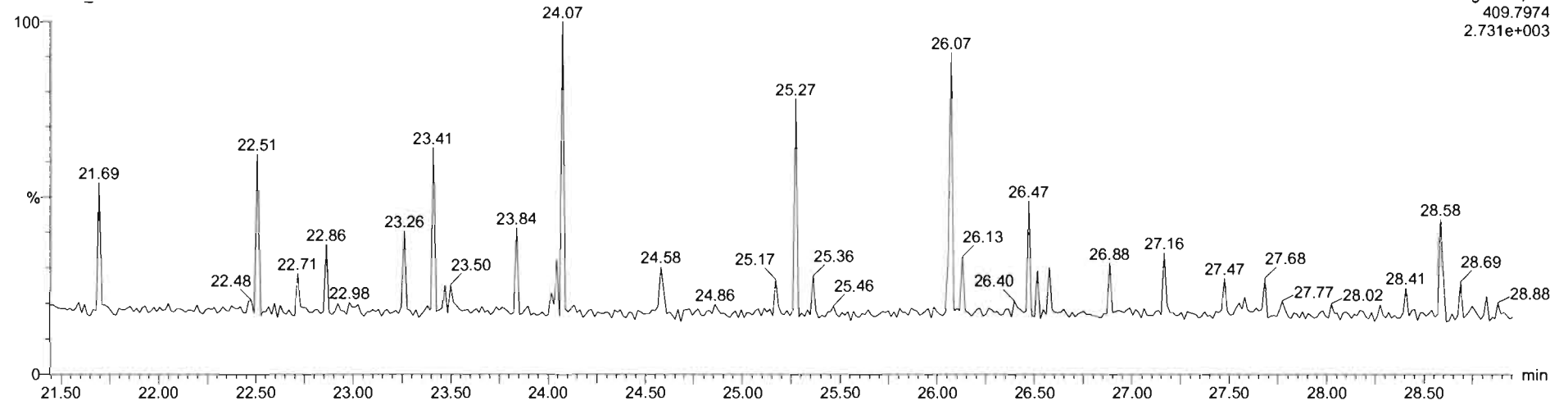


210414R1_7



DPE6

210414R1_7



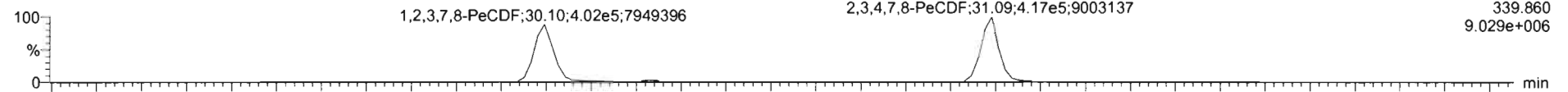
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Last Altered: Thursday, April 15, 2021 10:05:01 Pacific Daylight Time
Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

Name: 210414R1_7, Date: 14-Apr-2021, Time: 14:34:13, ID: SS210414R1-1 1613 SSS 21C0108, Description: 1613 SSS 21C0108

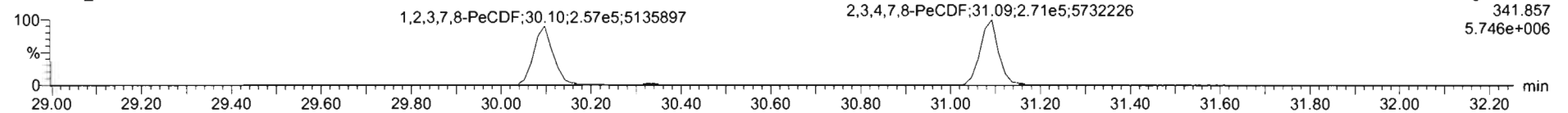
1,2,3,7,8-PeCDF

210414R1_7



F2: Voltage SIR, EI+
339.860
9.029e+006

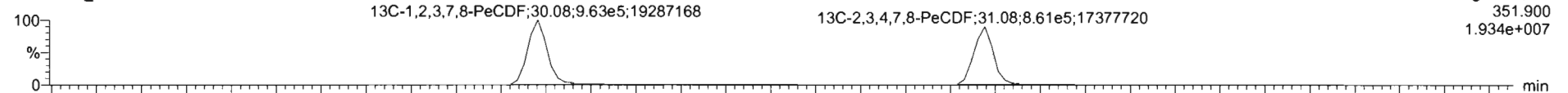
210414R1_7



F2: Voltage SIR, EI+
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5.746e+006

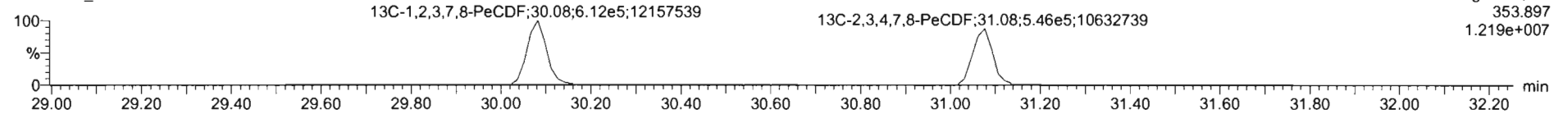
13C-1,2,3,7,8-PeCDF

210414R1_7



F2: Voltage SIR, EI+
351.900
1.934e+007

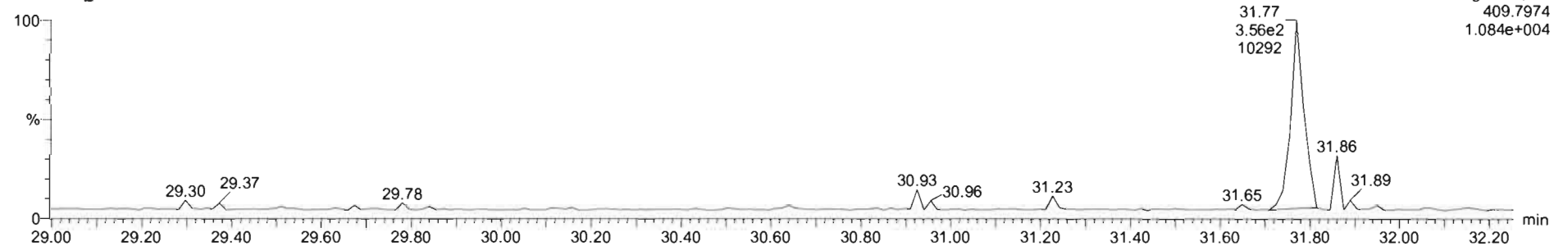
210414R1_7



F2: Voltage SIR, EI+
353.897
1.219e+007

DPE2

210414R1_7



F2: Voltage SIR, EI+
409.7974
1.084e+004

Dataset: Untitled

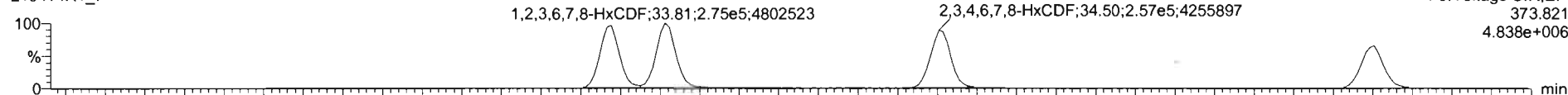
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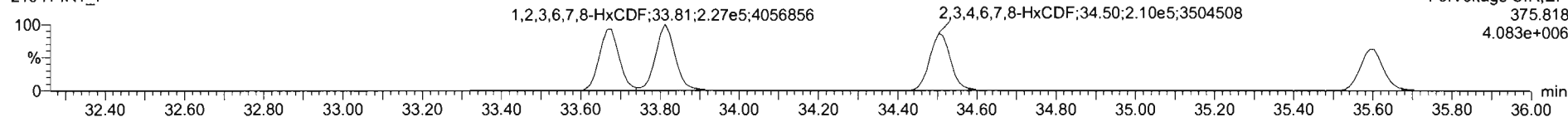
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1,2,3,4,7,8-HxCDF

210414R1_7

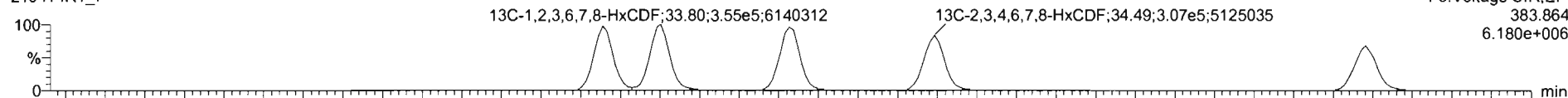


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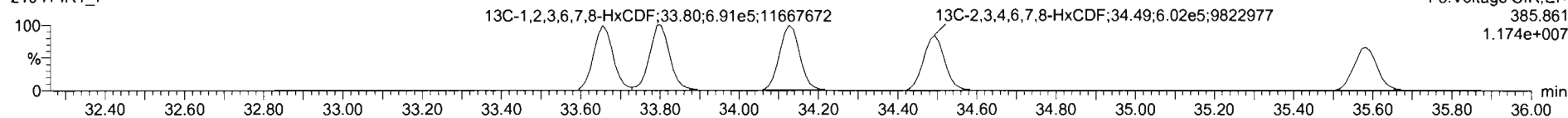


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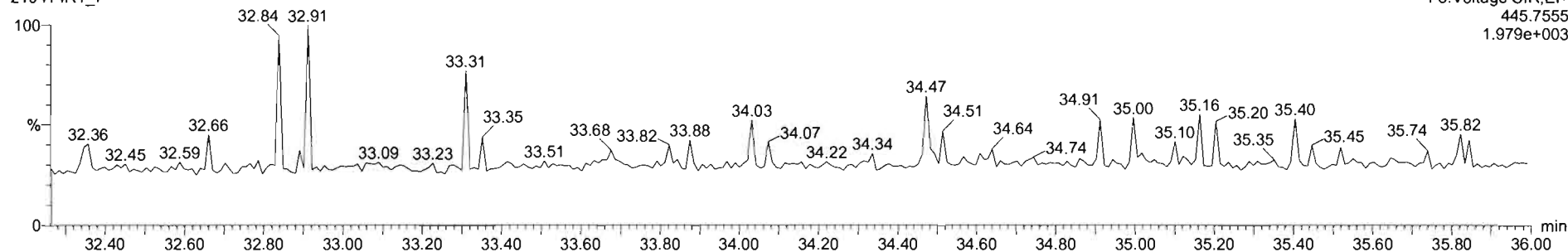


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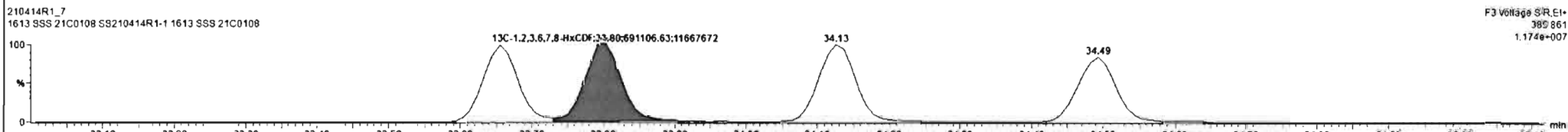
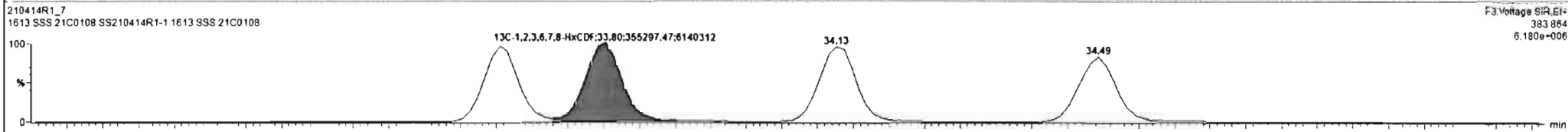
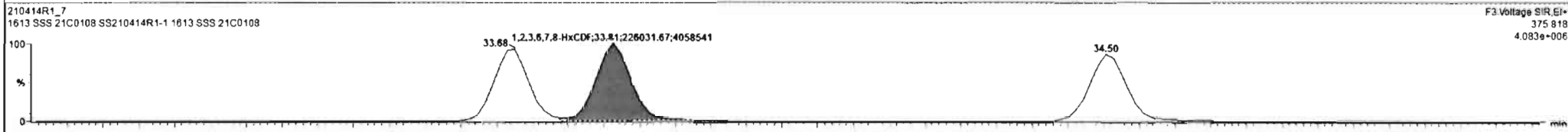
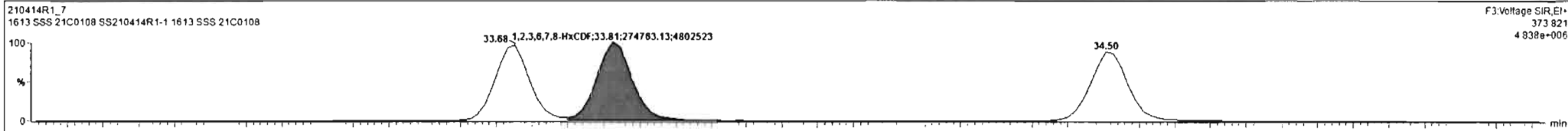
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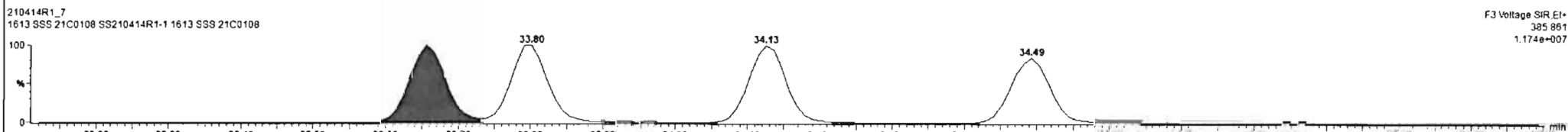
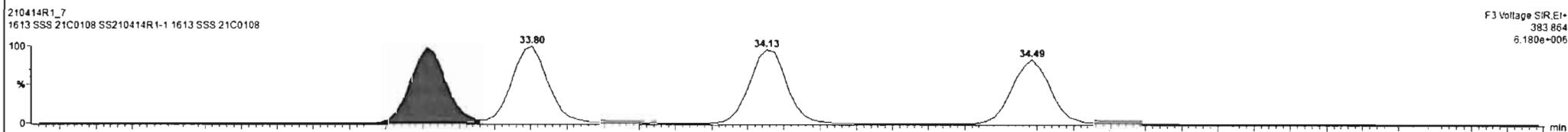
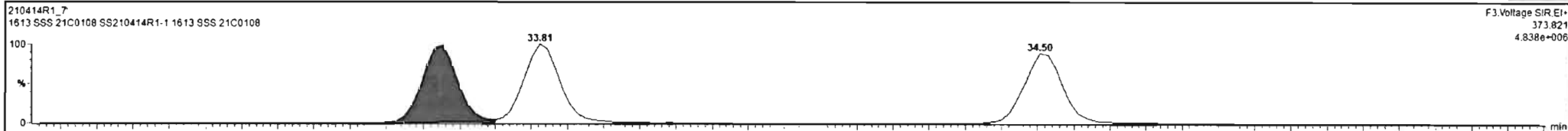


210414R1_7 - SS210414R1-1 1613 SSS 21C0108 - 1613 SSS 21C0108

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	NRec	DL	EMPC
1	2,3,7,8-TCDD	1.42e5	0.76	NO	0.9291	1.000	26.93	1.001	9.59	95.9	0.0124	9.59
2	1,2,3,7,8-PeCDD	4.59e5	0.60	NO	0.8257	1.000	31.26	1.000	48.1	96.2	0.0507	48.1
3	1,2,3,4,7,8-HxCDD	3.68e5	1.24	NO	0.9725	1.000	34.61	1.000	50.2	100	0.114	50.2
4	1,2,3,6,7,8-HxCDD	3.95e5	1.23	NO	0.8771	1.000	34.74	1.001	52.9	106	0.119	52.9
5	1,2,3,7,8,9-HxCDD	3.89e5	1.25	NO	0.8739	1.000	35.03	1.000	49.6	99.2	0.114	49.6
6	1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.8987	1.000	36.31	1.001	48.7	97.4	0.133	48.7
7	OCDD	4.57e5	0.87	NO	0.8524	1.000	41.31	1.000	102	102	0.151	102
8	2,3,7,8-TCDF	1.58e5	0.75	NO	0.7466	1.000	26.34	1.001	9.83	98.3	0.0164	9.83
9	1,2,3,7,8-PeCDF	6.59e5	1.57	NO	0.8771	1.000	30.10	1.000	47.7	95.4	0.0773	47.7
10	2,3,4,7,8-PeCDF	8.89e5	1.54	NO	0.9621	1.000	31.09	1.000	50.9	102	0.0782	50.9
11	1,2,3,4,7,8-HxCDF	4.77e5	1.21	NO	0.9202	1.000	33.68	1.001	52.9	106	0.0947	52.9
12	1,2,3,6,7,8-HxCDF	5.01e5	1.22	NO	0.9363	1.000	33.81	1.000	51.1	102	0.0912	51.1
13	1,2,3,4,6,7,8-HxCDF	4.87e5	1.22	NO	0.9725	1.000	34.50	1.000	52.8	106	0.1051	52.8



Name	Resp	RA	nHy	RRF	wt/wal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.42e5	0.78	NO	0.9291	1.000	28.93	1.001	9.59	95.9	0.0124	9.59
2 1,2,3,7,8-PeCDD	4.59e5	0.60	NO	0.8257	1.000	31.26	1.000	48.1	96.2	0.0507	48.1
3 1,2,3,4,7,8-HxCDD	3.68e5	1.24	NO	0.9725	1.000	34.61	1.000	50.2	100	0.114	50.2
4 1,2,3,6,7,8-HxCDD	3.95e5	1.23	NO	0.8771	1.000	34.74	1.001	52.9	106	0.119	52.9
5 1,2,3,7,8,9-HxCDD	3.89e5	1.25	NO	0.8739	1.000	35.03	1.000	49.6	99.2	0.114	49.6
6 1,2,3,4,6,7,8-HpCDD	2.71e5	1.02	NO	0.8967	1.000	38.31	1.001	48.7	97.4	0.133	48.7
7 OCDD	4.57e5	0.87	NO	0.8524	1.000	41.31	1.000	102	102	0.151	102
8 2,3,7,8-TCDF	1.58e5	0.75	NO	0.7466	1.000	26.34	1.001	9.83	98.3	0.0164	9.83
9 1,2,3,7,8-PeCDF	6.59e5	1.57	NO	0.8771	1.000	30.10	1.000	47.7	95.4	0.0773	47.7
10 2,3,4,7,8-HxCDF	8.89e5	1.54	NO	0.9621	1.000	31.09	1.000	50.8	102	0.0782	50.9
11 1,2,3,4,7,8-HxCDF	4.77e5	1.21	NO	0.9002	1.000	33.68	1.001	52.9	106	0.0947	52.9
12 1,2,3,6,7,8-HxCDF	5.01e5	1.22	NO	0.9363	1.000	33.81	1.000	51.1	102	0.0912	51.1
13 2,3,4,6,7,8-HxCDF	4.87e5	1.22	NO	0.9725	1.000	34.50	1.000	52.6	106	0.105	52.8



Regdx. 210414R1_7 CAP NUM

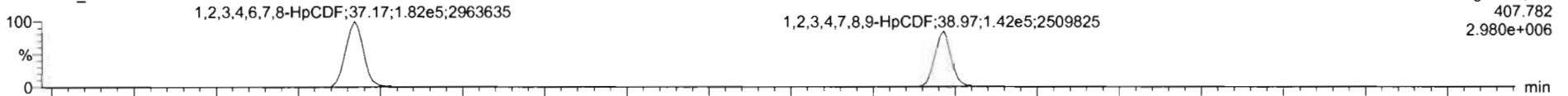
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Printed: Thursday, April 15, 2021 10:05:13 Pacific Daylight Time

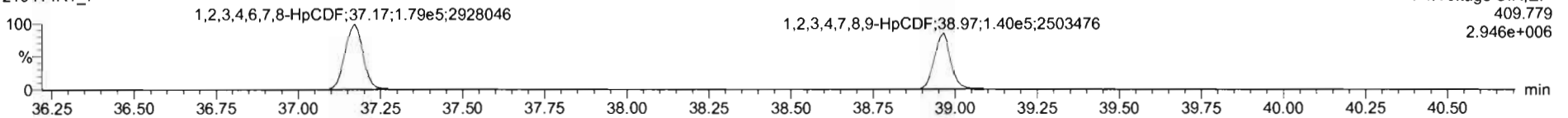
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1,2,3,4,6,7,8-HpCDF

210414R1_7

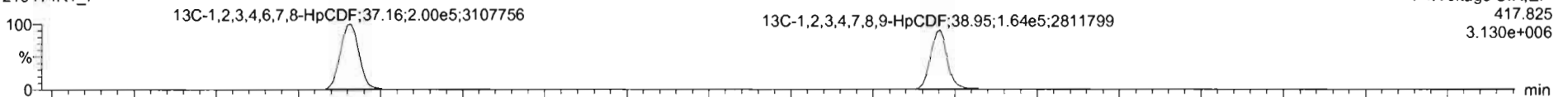


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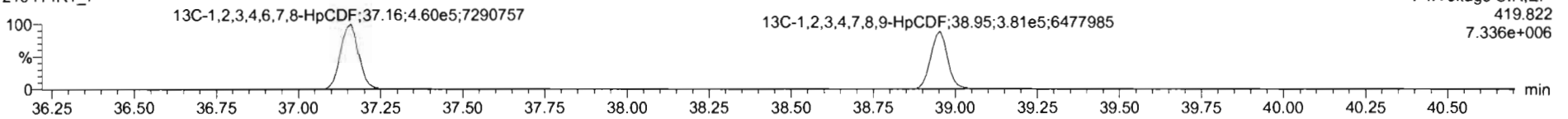


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210414R1_7

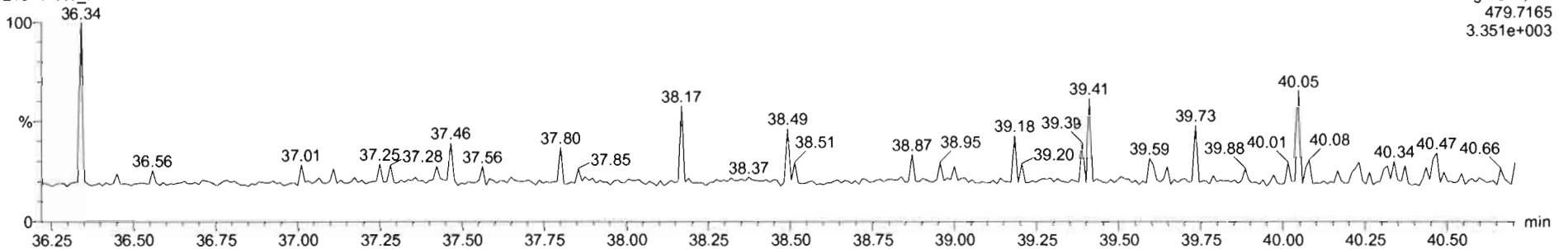


210414R1_7



DPE4

210414R1_7



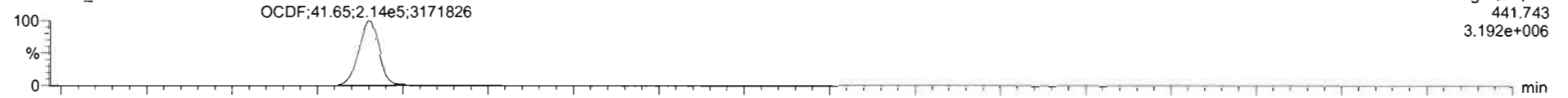
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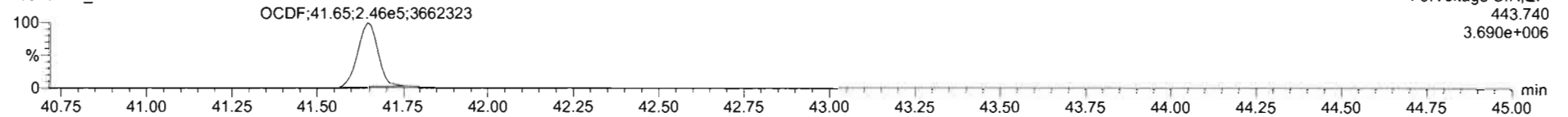
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OCDF

210414R1_7

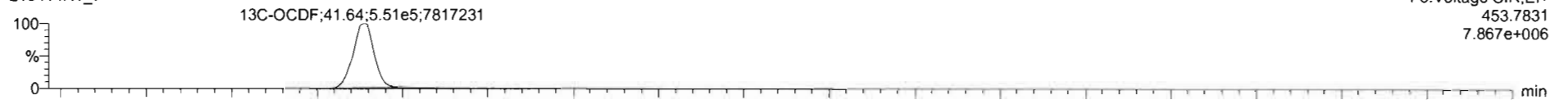


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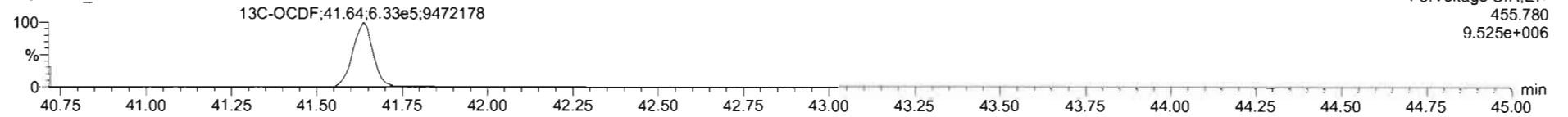


13C-OCDF

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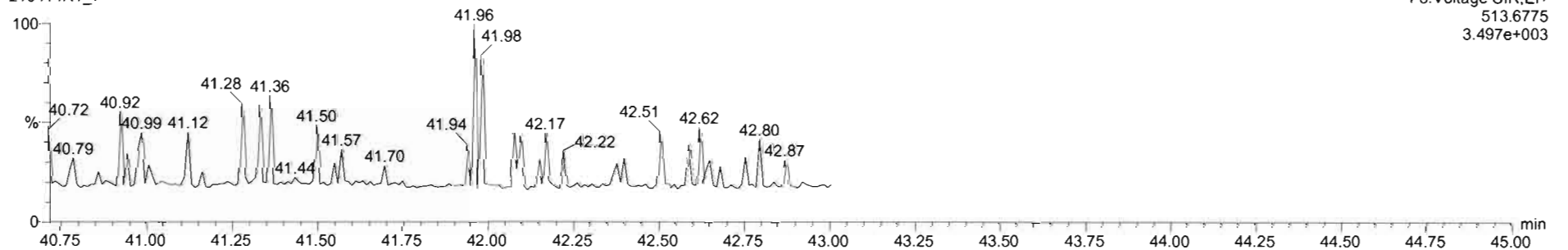


210414R1_7



DPE5

210414R1_7



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