

December 29, 2020

Vista Work Order No. 2002493

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 November 12, 2020 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,

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. 2002493

Case Narrative

Sample Condition on Receipt:

Twelve 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 above the quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the method acceptance criteria are listed in the table below:

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
2002493-07	USMPDI-014SC-A-12-13-201109	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDD	H	134
2002493-07	USMPDI-014SC-A-12-13-201109	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDD	H	141
2002493-10	USMPDI-057SC-A-04-05-201109	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDD	H	132
2002493-10	USMPDI-057SC-A-04-05-201109	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDD	H	141
2002493-12	USMPDI-057SC-A-06-07-201109	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDD	H	132

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2002493-01	USMPDI-012SC-A-01-02-201109	09-Nov-20 12:55	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-02	USMPDI-012SC-A-02-03-201109	09-Nov-20 12:55	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-03	USMPDI-012SC-A-03-04-201109	09-Nov-20 12:55	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-04	USMPDI-012SC-A-04-05-201109	09-Nov-20 12:55	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-05	USMPDI-014SC-A-10-11-201109	09-Nov-20 14:55	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-06	USMPDI-014SC-A-11-12-201109	09-Nov-20 14:55	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-07	USMPDI-014SC-A-12-13-201109	09-Nov-20 14:55	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-08	USMPDI-014SC-A-13-14-201109	09-Nov-20 14:55	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-09	USMPDI-057SC-A-03-04-201109	09-Nov-20 09:30	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-10	USMPDI-057SC-A-04-05-201109	09-Nov-20 09:30	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-11	USMPDI-057SC-A-05-06-201109	09-Nov-20 09:30	12-Nov-20 10:37	Amber Glass, 120 mL
2002493-12	USMPDI-057SC-A-06-07-201109	09-Nov-20 09:30	12-Nov-20 10:37	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24		Lab Sample: B0L0040-BLK1 Date Analyzed: 14-Dec-20 15:22 Column: ZB-DIOXIN					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0193			IS 13C-2,3,7,8-TCDD	96.6	25 - 164		
1,2,3,7,8-PeCDD	ND	0.0191			13C-1,2,3,7,8-PeCDD	110	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.0256			13C-1,2,3,4,7,8-HxCDD	109	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.0270			13C-1,2,3,6,7,8-HxCDD	103	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.0280			13C-1,2,3,7,8,9-HxCDD	101	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.0450			13C-1,2,3,4,6,7,8-HpCDD	98.9	23 - 140		
OCDD	0.162			J	13C-OCDD	81.5	17 - 157		
2,3,7,8-TCDF	ND	0.0107			13C-2,3,7,8-TCDF	102	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0172			13C-1,2,3,7,8-PeCDF	117	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0150			13C-2,3,4,7,8-PeCDF	114	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0159			13C-1,2,3,4,7,8-HxCDF	99.7	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0165			13C-1,2,3,6,7,8-HxCDF	92.3	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0190			13C-2,3,4,6,7,8-HxCDF	96.0	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.0224			13C-1,2,3,7,8,9-HxCDF	94.9	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0398			13C-1,2,3,4,6,7,8-HpCDF	76.8	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0320			13C-1,2,3,4,7,8,9-HpCDF	95.9	26 - 138		
OCDF	ND	0.0331			13C-OCDF	78.9	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	93.9	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.000049		
TOTALS									
Total TCDD	ND	0.0193							
Total PeCDD	ND	0.0191							
Total HxCDD	ND	0.0280							
Total HpCDD	ND	0.0450							
Total TCDF	ND	0.0107							
Total PeCDF	ND	0.0172							
Total HxCDF	ND	0.0224							
Total HpCDF	ND	0.0398							

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	QC Batch: B0L0040	Lab Sample: B0L0040-BS1					
Sample Size: 10.0 g	Date Extracted: 05-Dec-2020 13:24	Date Analyzed: 14-Dec-20 13:49	Column: ZB-DIOXIN				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	20.3	20.0	101	67 - 158	IS 13C-2,3,7,8-TCDD	97.7	20 - 175
1,2,3,7,8-PeCDD	104	100	104	70 - 142	13C-1,2,3,7,8-PeCDD	112	21 - 227
1,2,3,4,7,8-HxCDD	103	100	103	70 - 164	13C-1,2,3,4,7,8-HxCDD	107	21 - 193
1,2,3,6,7,8-HxCDD	101	100	101	76 - 134	13C-1,2,3,6,7,8-HxCDD	105	25 - 163
1,2,3,7,8,9-HxCDD	99.7	100	99.7	64 - 162	13C-1,2,3,7,8,9-HxCDD	101	21 - 193
1,2,3,4,6,7,8-HpCDD	96.9	100	96.9	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	99.6	26 - 166
OCDD	205	200	102	78 - 144	13C-OCDD	80.0	13 - 199
2,3,7,8-TCDF	18.2	20.0	90.8	75 - 158	13C-2,3,7,8-TCDF	100	22 - 152
1,2,3,7,8-PeCDF	99.6	100	99.6	80 - 134	13C-1,2,3,7,8-PeCDF	118	21 - 192
2,3,4,7,8-PeCDF	101	100	101	68 - 160	13C-2,3,4,7,8-PeCDF	115	13 - 328
1,2,3,4,7,8-HxCDF	95.6	100	95.6	72 - 134	13C-1,2,3,4,7,8-HxCDF	100	19 - 202
1,2,3,6,7,8-HxCDF	95.7	100	95.7	84 - 130	13C-1,2,3,6,7,8-HxCDF	93.8	21 - 159
2,3,4,6,7,8-HxCDF	96.9	100	96.9	70 - 156	13C-2,3,4,6,7,8-HxCDF	96.1	22 - 176
1,2,3,7,8,9-HxCDF	96.0	100	96.0	78 - 130	13C-1,2,3,7,8,9-HxCDF	95.6	17 - 205
1,2,3,4,6,7,8-HpCDF	96.4	100	96.4	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	79.4	21 - 158
1,2,3,4,7,8,9-HpCDF	96.0	100	96.0	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	96.5	20 - 186
OCDF	194	200	97.2	63 - 170	13C-OCDF	80.4	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	98.3	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: USMPDI-012SC-A-01-02-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-01 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 13.1 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 12:55	% Solids: 79.1	Date Analyzed: 15-Dec-20 23:43 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0990		IS 13C-2,3,7,8-TCDD	102	25 - 164	
1,2,3,7,8-PeCDD	ND		0.116		13C-1,2,3,7,8-PeCDD	119	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0800			13C-1,2,3,4,7,8-HxCDD	128	32 - 141	
1,2,3,6,7,8-HxCDD	0.852			J	13C-1,2,3,6,7,8-HxCDD	122	28 - 130	
1,2,3,7,8,9-HxCDD	0.403			J	13C-1,2,3,7,8,9-HxCDD	118	32 - 141	
1,2,3,4,6,7,8-HpCDD	18.6				13C-1,2,3,4,6,7,8-HpCDD	123	23 - 140	
OCDD	322			B	13C-OCDD	105	17 - 157	
2,3,7,8-TCDF	3.33				13C-2,3,7,8-TCDF	109	24 - 169	
1,2,3,7,8-PeCDF	5.07				13C-1,2,3,7,8-PeCDF	126	24 - 185	
2,3,4,7,8-PeCDF	3.11				13C-2,3,4,7,8-PeCDF	125	21 - 178	
1,2,3,4,7,8-HxCDF	8.73				13C-1,2,3,4,7,8-HxCDF	106	26 - 152	
1,2,3,6,7,8-HxCDF	2.34			J	13C-1,2,3,6,7,8-HxCDF	97.8	26 - 123	
2,3,4,6,7,8-HxCDF	0.809			J	13C-2,3,4,6,7,8-HxCDF	103	28 - 136	
1,2,3,7,8,9-HxCDF	0.334			J	13C-1,2,3,7,8,9-HxCDF	104	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.86				13C-1,2,3,4,6,7,8-HpCDF	86.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.19			J	13C-1,2,3,4,7,8,9-HpCDF	106	26 - 138	
OCDF	15.5				13C-OCDF	94.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 3.14

TOTALS	
Total TCDD	0.396 0.589
Total PeCDD	0.888 1.31
Total HxCDD	7.97
Total HpCDD	40.8
Total TCDF	9.64
Total PeCDF	15.6
Total HxCDF	18.2
Total HpCDF	17.7

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-012SC-A-02-03-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-02 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 13.5 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 12:55	% Solids: 75.4	Date Analyzed: 16-Dec-20 00:27 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0398		IS 13C-2,3,7,8-TCDD	112	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0536			13C-1,2,3,7,8-PeCDD	117	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0625			13C-1,2,3,4,7,8-HxCDD	136	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.100		13C-1,2,3,6,7,8-HxCDD	130	28 - 130	
1,2,3,7,8,9-HxCDD	0.102			J	13C-1,2,3,7,8,9-HxCDD	123	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.19			J	13C-1,2,3,4,6,7,8-HpCDD	137	23 - 140	
OCDD	28.4			B	13C-OCDD	113	17 - 157	
2,3,7,8-TCDF	0.354			J	13C-2,3,7,8-TCDF	113	24 - 169	
1,2,3,7,8-PeCDF	0.381			J	13C-1,2,3,7,8-PeCDF	131	24 - 185	
2,3,4,7,8-PeCDF	0.209			J	13C-2,3,4,7,8-PeCDF	125	21 - 178	
1,2,3,4,7,8-HxCDF	0.711			J	13C-1,2,3,4,7,8-HxCDF	114	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.161		13C-1,2,3,6,7,8-HxCDF	107	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0551			13C-2,3,4,6,7,8-HxCDF	105	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0582		13C-1,2,3,7,8,9-HxCDF	108	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.708			J	13C-1,2,3,4,6,7,8-HpCDF	94.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.166			J	13C-1,2,3,4,7,8,9-HpCDF	121	26 - 138	
OCDF	1.41			J	13C-OCDF	105	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	107	35 - 197	

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

TEQMinWHO2005Dioxin 0.230

TOTALS		
Total TCDD	0.129	0.212
Total PeCDD	ND	0.0973
Total HxCDD	1.64	1.74
Total HpCDD	5.30	
Total TCDF	0.491	0.890
Total PeCDF	1.23	
Total HxCDF	1.08	1.48
Total HpCDF	1.71	

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-012SC-A-03-04-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-03 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 13.3 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 12:55	% Solids: 81.1	Date Analyzed: 16-Dec-20 11:30 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0209			IS 13C-2,3,7,8-TCDD	113	25 - 164	
1,2,3,7,8-PeCDD	0.0549			J	13C-1,2,3,7,8-PeCDD	121	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0298			13C-1,2,3,4,7,8-HxCDD	137	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.0820		13C-1,2,3,6,7,8-HxCDD	130	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.0750		13C-1,2,3,7,8,9-HxCDD	127	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.55			J	13C-1,2,3,4,6,7,8-HpCDD	133	23 - 140	
OCDD	24.9			B	13C-OCDD	102	17 - 157	
2,3,7,8-TCDF	0.215			J	13C-2,3,7,8-TCDF	118	24 - 169	
1,2,3,7,8-PeCDF	0.352			J	13C-1,2,3,7,8-PeCDF	137	24 - 185	
2,3,4,7,8-PeCDF	0.157			J	13C-2,3,4,7,8-PeCDF	137	21 - 178	
1,2,3,4,7,8-HxCDF	0.603			J	13C-1,2,3,4,7,8-HxCDF	114	26 - 152	
1,2,3,6,7,8-HxCDF	0.150			J	13C-1,2,3,6,7,8-HxCDF	104	26 - 123	
2,3,4,6,7,8-HxCDF	0.0568			J	13C-2,3,4,6,7,8-HxCDF	111	28 - 136	
1,2,3,7,8,9-HxCDF	0.0748			J	13C-1,2,3,7,8,9-HxCDF	114	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.492			J	13C-1,2,3,4,6,7,8-HpCDF	88.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.188			J	13C-1,2,3,4,7,8,9-HpCDF	113	26 - 138	
OCDF	1.17			J	13C-OCDF	95.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	106	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.253

TOTALS			
Total TCDD	0.0289		0.114
Total PeCDD	0.121		0.173
Total HxCDD	0.543		1.01
Total HpCDD	3.98		
Total TCDF	0.487		0.539
Total PeCDF	0.837		0.949
Total HxCDF	1.03		1.24
Total HpCDF	1.22		

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-012SC-A-04-05-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-04 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 12.0 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 12:55	% Solids: 86.7	Date Analyzed: 16-Dec-20 12:15 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0739		IS 13C-2,3,7,8-TCDD	117	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0416			13C-1,2,3,7,8-PeCDD	123	25 - 181	
1,2,3,4,7,8-HxCDD	0.167			J	13C-1,2,3,4,7,8-HxCDD	137	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0673			13C-1,2,3,6,7,8-HxCDD	130	28 - 130	
1,2,3,7,8,9-HxCDD	0.154			J	13C-1,2,3,7,8,9-HxCDD	128	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.27				13C-1,2,3,4,6,7,8-HpCDD	132	23 - 140	
OCDD	41.3			B	13C-OCDD	110	17 - 157	
2,3,7,8-TCDF	0.451			J	13C-2,3,7,8-TCDF	121	24 - 169	
1,2,3,7,8-PeCDF	0.624			J	13C-1,2,3,7,8-PeCDF	127	24 - 185	
2,3,4,7,8-PeCDF	0.296			J	13C-2,3,4,7,8-PeCDF	134	21 - 178	
1,2,3,4,7,8-HxCDF	1.38			J	13C-1,2,3,4,7,8-HxCDF	114	26 - 152	
1,2,3,6,7,8-HxCDF	0.350			J	13C-1,2,3,6,7,8-HxCDF	103	26 - 123	
2,3,4,6,7,8-HxCDF	0.105			J	13C-2,3,4,6,7,8-HxCDF	112	28 - 136	
1,2,3,7,8,9-HxCDF	0.100			J	13C-1,2,3,7,8,9-HxCDF	114	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.01			J	13C-1,2,3,4,6,7,8-HpCDF	90.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.281			J	13C-1,2,3,4,7,8,9-HpCDF	117	26 - 138	
OCDF	1.94			J	13C-OCDF	99.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.437

TOTALS		
Total TCDD	0.104	0.178
Total PeCDD	0.223	0.508
Total HxCDD	1.36	2.09
Total HpCDD	7.46	
Total TCDF	1.60	1.63
Total PeCDF	2.10	
Total HxCDF	2.59	2.68
Total HpCDF	2.25	

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-014SC-A-10-11-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-05 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 18.2 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 14:55	% Solids: 55.2	Date Analyzed : 16-Dec-20 13:00 Column: ZB-DIOXIN 17-Dec-20 21:55 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.408		IS 13C-2,3,7,8-TCDD	117	25 - 164	
1,2,3,7,8-PeCDD	1.23			J	13C-1,2,3,7,8-PeCDD	124	25 - 181	
1,2,3,4,7,8-HxCDD	2.65				13C-1,2,3,4,7,8-HxCDD	135	32 - 141	
1,2,3,6,7,8-HxCDD	28.1				13C-1,2,3,6,7,8-HxCDD	127	28 - 130	
1,2,3,7,8,9-HxCDD	6.97				13C-1,2,3,7,8,9-HxCDD	127	32 - 141	
1,2,3,4,6,7,8-HpCDD	2060				13C-1,2,3,4,6,7,8-HpCDD	137	23 - 140	
OCDD	19000			D, B	13C-OCDD	72.1	17 - 157	D
2,3,7,8-TCDF	28.6				13C-2,3,7,8-TCDF	122	24 - 169	
1,2,3,7,8-PeCDF	51.3				13C-1,2,3,7,8-PeCDF	122	24 - 185	
2,3,4,7,8-PeCDF	36.7				13C-2,3,4,7,8-PeCDF	133	21 - 178	
1,2,3,4,7,8-HxCDF	94.7				13C-1,2,3,4,7,8-HxCDF	110	26 - 152	
1,2,3,6,7,8-HxCDF	26.6				13C-1,2,3,6,7,8-HxCDF	102	26 - 123	
2,3,4,6,7,8-HxCDF	10.6				13C-2,3,4,6,7,8-HxCDF	106	28 - 136	
1,2,3,7,8,9-HxCDF	2.87				13C-1,2,3,7,8,9-HxCDF	109	29 - 147	
1,2,3,4,6,7,8-HpCDF	157				13C-1,2,3,4,6,7,8-HpCDF	86.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	18.0				13C-1,2,3,4,7,8,9-HpCDF	110	26 - 138	
OCDF	504				13C-OCDF	82.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 62.1

TOTALS								
Total TCDD	13.1		14.2					
Total PeCDD	23.8		27.2					
Total HxCDD	395							
Total HpCDD	4590							
Total TCDF	112		125	P				
Total PeCDF	263							
Total HxCDF	286			P				
Total HpCDF	547							

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-014SC-A-11-12-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-06 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 18.3 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 14:55	% Solids: 55.3	Date Analyzed : 16-Dec-20 13:46 Column: ZB-DIOXIN 17-Dec-20 22:40 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.523				IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	1.66			J	13C-1,2,3,7,8-PeCDD	107	25 - 181	
1,2,3,4,7,8-HxCDD	1.57			J	13C-1,2,3,4,7,8-HxCDD	122	32 - 141	
1,2,3,6,7,8-HxCDD	17.8				13C-1,2,3,6,7,8-HxCDD	113	28 - 130	
1,2,3,7,8,9-HxCDD	5.27				13C-1,2,3,7,8,9-HxCDD	114	32 - 141	
1,2,3,4,6,7,8-HpCDD	782				13C-1,2,3,4,6,7,8-HpCDD	127	23 - 140	
OCDD	7220			D, B	13C-OCDD	94.2	17 - 157	D
2,3,7,8-TCDF	4.21				13C-2,3,7,8-TCDF	109	24 - 169	
1,2,3,7,8-PeCDF	3.80				13C-1,2,3,7,8-PeCDF	117	24 - 185	
2,3,4,7,8-PeCDF	13.6				13C-2,3,4,7,8-PeCDF	113	21 - 178	
1,2,3,4,7,8-HxCDF	9.85				13C-1,2,3,4,7,8-HxCDF	96.6	26 - 152	
1,2,3,6,7,8-HxCDF	11.7				13C-1,2,3,6,7,8-HxCDF	90.6	26 - 123	
2,3,4,6,7,8-HxCDF	9.34				13C-2,3,4,6,7,8-HxCDF	93.6	28 - 136	
1,2,3,7,8,9-HxCDF	0.597			J	13C-1,2,3,7,8,9-HxCDF	94.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	295				13C-1,2,3,4,6,7,8-HpCDF	80.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.13				13C-1,2,3,4,7,8,9-HpCDF	97.2	26 - 138	
OCDF	223				13C-OCDF	83.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 25.5

TOTALS								
Total TCDD	11.1		11.6					
Total PeCDD	30.1							
Total HxCDD	228							
Total HpCDD	1620							
Total TCDF	78.0		79.5	P				
Total PeCDF	194			P				
Total HxCDF	243			P				
Total HpCDF	595							

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-014SC-A-12-13-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-07 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 18.1 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 14:55	% Solids: 56.1	Date Analyzed: 16-Dec-20 14:31 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.247		IS 13C-2,3,7,8-TCDD	114	25 - 164	
1,2,3,7,8-PeCDD	1.41			J	13C-1,2,3,7,8-PeCDD	126	25 - 181	
1,2,3,4,7,8-HxCDD	0.813			J	13C-1,2,3,4,7,8-HxCDD	140	32 - 141	
1,2,3,6,7,8-HxCDD	11.5				13C-1,2,3,6,7,8-HxCDD	134	28 - 130	H
1,2,3,7,8,9-HxCDD	2.93				13C-1,2,3,7,8,9-HxCDD	133	32 - 141	
1,2,3,4,6,7,8-HpCDD	176				13C-1,2,3,4,6,7,8-HpCDD	141	23 - 140	H
OCDD	2310			B	13C-OCDD	122	17 - 157	
2,3,7,8-TCDF	1.24				13C-2,3,7,8-TCDF	118	24 - 169	
1,2,3,7,8-PeCDF	2.18			J	13C-1,2,3,7,8-PeCDF	138	24 - 185	
2,3,4,7,8-PeCDF	16.2				13C-2,3,4,7,8-PeCDF	132	21 - 178	
1,2,3,4,7,8-HxCDF	11.4				13C-1,2,3,4,7,8-HxCDF	112	26 - 152	
1,2,3,6,7,8-HxCDF	43.8				13C-1,2,3,6,7,8-HxCDF	105	26 - 123	
2,3,4,6,7,8-HxCDF	19.2				13C-2,3,4,6,7,8-HxCDF	110	28 - 136	
1,2,3,7,8,9-HxCDF	1.51			J	13C-1,2,3,7,8,9-HxCDF	113	29 - 147	
1,2,3,4,6,7,8-HpCDF	890				13C-1,2,3,4,6,7,8-HpCDF	96.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.59				13C-1,2,3,4,7,8,9-HpCDF	112	26 - 138	
OCDF	329				13C-OCDF	103	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	107	35 - 197	

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

TEQMinWHO2005Dioxin 27.1

TOTALS			
Total TCDD	6.68		7.17
Total PeCDD	21.3		25.2
Total HxCDD	124		
Total HpCDD	451		
Total TCDF	83.7		P
Total PeCDF	258		P
Total HxCDF	668		P
Total HpCDF	1690		

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-014SC-A-13-14-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-08 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 16.0 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 14:55	% Solids: 64.6	Date Analyzed: 16-Dec-20 15:17 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0461		IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0626			13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	0.0671			J	13C-1,2,3,4,7,8-HxCDD	127	32 - 141	
1,2,3,6,7,8-HxCDD	0.134			J	13C-1,2,3,6,7,8-HxCDD	120	28 - 130	
1,2,3,7,8,9-HxCDD	0.177			J	13C-1,2,3,7,8,9-HxCDD	120	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.04			J	13C-1,2,3,4,6,7,8-HpCDD	120	23 - 140	
OCDD	27.8			B	13C-OCDD	96.9	17 - 157	
2,3,7,8-TCDF	0.118			J	13C-2,3,7,8-TCDF	107	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0390			13C-1,2,3,7,8-PeCDF	120	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0748		13C-2,3,4,7,8-PeCDF	123	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.0637		13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	0.0927			J	13C-1,2,3,6,7,8-HxCDF	95.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.0670			J	13C-2,3,4,6,7,8-HxCDF	99.7	28 - 136	
1,2,3,7,8,9-HxCDF	0.0663			J	13C-1,2,3,7,8,9-HxCDF	105	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.36			J	13C-1,2,3,4,6,7,8-HpCDF	82.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0456			13C-1,2,3,4,7,8,9-HpCDF	99.0	26 - 138	
OCDF	0.816			J	13C-OCDF	84.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	105	35 - 197	

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

TEQMinWHO2005Dioxin 0.115

TOTALS		
Total TCDD	0.587	0.672
Total PeCDD	0.496	0.801
Total HxCDD	2.46	
Total HpCDD	5.06	
Total TCDF	1.68	1.85
Total PeCDF	0.739	0.932
Total HxCDF	1.20	1.26
Total HpCDF	2.42	

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-057SC-A-03-04-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-09 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 14.2 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 9:30	% Solids: 72.6	Date Analyzed: 16-Dec-20 16:03 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.125		IS 13C-2,3,7,8-TCDD	112	25 - 164	
1,2,3,7,8-PeCDD	0.255			J	13C-1,2,3,7,8-PeCDD	119	25 - 181	
1,2,3,4,7,8-HxCDD	0.677			J	13C-1,2,3,4,7,8-HxCDD	135	32 - 141	
1,2,3,6,7,8-HxCDD	5.10				13C-1,2,3,6,7,8-HxCDD	127	28 - 130	
1,2,3,7,8,9-HxCDD	1.44			J	13C-1,2,3,7,8,9-HxCDD	123	32 - 141	
1,2,3,4,6,7,8-HpCDD	406				13C-1,2,3,4,6,7,8-HpCDD	134	23 - 140	
OCDD	3380			B	13C-OCDD	118	17 - 157	
2,3,7,8-TCDF	15.1				13C-2,3,7,8-TCDF	111	24 - 169	
1,2,3,7,8-PeCDF	23.1				13C-1,2,3,7,8-PeCDF	126	24 - 185	
2,3,4,7,8-PeCDF	14.7				13C-2,3,4,7,8-PeCDF	120	21 - 178	
1,2,3,4,7,8-HxCDF	34.1				13C-1,2,3,4,7,8-HxCDF	110	26 - 152	
1,2,3,6,7,8-HxCDF	8.13				13C-1,2,3,6,7,8-HxCDF	101	26 - 123	
2,3,4,6,7,8-HxCDF	2.91				13C-2,3,4,6,7,8-HxCDF	101	28 - 136	
1,2,3,7,8,9-HxCDF	1.98			J	13C-1,2,3,7,8,9-HxCDF	105	29 - 147	
1,2,3,4,6,7,8-HpCDF	31.6				13C-1,2,3,4,6,7,8-HpCDF	89.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.83				13C-1,2,3,4,7,8,9-HpCDF	111	26 - 138	
OCDF	133				13C-OCDF	100	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	110	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 17.8

TOTALS								
Total TCDD	2.63		2.98					
Total PeCDD	4.91		5.51					
Total HxCDD	84.3							
Total HpCDD	919							
Total TCDF	44.6		47.6	P				
Total PeCDF	79.5							
Total HxCDF	75.6							
Total HpCDF	115							

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-057SC-A-04-05-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-10 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 13.6 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 9:30	% Solids: 75.0	Date Analyzed: 16-Dec-20 16:47 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0355			IS 13C-2,3,7,8-TCDD	115	25 - 164	
1,2,3,7,8-PeCDD	0.105			J	13C-1,2,3,7,8-PeCDD	127	25 - 181	
1,2,3,4,7,8-HxCDD	0.132			J	13C-1,2,3,4,7,8-HxCDD	140	32 - 141	
1,2,3,6,7,8-HxCDD	0.898			J	13C-1,2,3,6,7,8-HxCDD	132	28 - 130	H
1,2,3,7,8,9-HxCDD	0.344			J	13C-1,2,3,7,8,9-HxCDD	131	32 - 141	
1,2,3,4,6,7,8-HpCDD	48.2				13C-1,2,3,4,6,7,8-HpCDD	141	23 - 140	H
OCDD	424			B	13C-OCDD	114	17 - 157	
2,3,7,8-TCDF	0.995				13C-2,3,7,8-TCDF	118	24 - 169	
1,2,3,7,8-PeCDF	0.953			J	13C-1,2,3,7,8-PeCDF	129	24 - 185	
2,3,4,7,8-PeCDF	ND		0.913		13C-2,3,4,7,8-PeCDF	123	21 - 178	
1,2,3,4,7,8-HxCDF	1.34			J	13C-1,2,3,4,7,8-HxCDF	112	26 - 152	
1,2,3,6,7,8-HxCDF	0.464			J	13C-1,2,3,6,7,8-HxCDF	104	26 - 123	
2,3,4,6,7,8-HxCDF	0.304			J	13C-2,3,4,6,7,8-HxCDF	113	28 - 136	
1,2,3,7,8,9-HxCDF	0.0664			J	13C-1,2,3,7,8,9-HxCDF	110	29 - 147	
1,2,3,4,6,7,8-HpCDF	5.37				13C-1,2,3,4,6,7,8-HpCDF	91.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.387			J	13C-1,2,3,4,7,8,9-HpCDF	113	26 - 138	
OCDF	10.5				13C-OCDF	100	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	113	35 - 197	

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

TEQMinWHO2005Dioxin 1.26

TOTALS								
Total TCDD	0.309		0.489					
Total PeCDD	0.859		1.41					
Total HxCDD	11.1							
Total HpCDD	98.8							
Total TCDF	5.27		5.35	P				
Total PeCDF	6.28		7.19					
Total HxCDF	6.72							
Total HpCDF	13.9							

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-057SC-A-05-06-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-11 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 12.8 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 9:30	% Solids: 79.2	Date Analyzed: 16-Dec-20 17:31 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0411		IS 13C-2,3,7,8-TCDD	114	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0454			13C-1,2,3,7,8-PeCDD	120	25 - 181	
1,2,3,4,7,8-HxCDD	0.0487			J	13C-1,2,3,4,7,8-HxCDD	139	32 - 141	
1,2,3,6,7,8-HxCDD	0.0839			J	13C-1,2,3,6,7,8-HxCDD	130	28 - 130	
1,2,3,7,8,9-HxCDD	0.136			J	13C-1,2,3,7,8,9-HxCDD	128	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.48			J	13C-1,2,3,4,6,7,8-HpCDD	138	23 - 140	
OCDD	22.8			B	13C-OCDD	116	17 - 157	
2,3,7,8-TCDF	ND	0.0139			13C-2,3,7,8-TCDF	118	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0210			13C-1,2,3,7,8-PeCDF	124	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0181			13C-2,3,4,7,8-PeCDF	124	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.0538		13C-1,2,3,4,7,8-HxCDF	112	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0242			13C-1,2,3,6,7,8-HxCDF	102	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0262			13C-2,3,4,6,7,8-HxCDF	109	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0413		13C-1,2,3,7,8,9-HxCDF	110	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.112			J	13C-1,2,3,4,6,7,8-HpCDF	93.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0339			13C-1,2,3,4,7,8,9-HpCDF	115	26 - 138	
OCDF	0.467			J	13C-OCDF	104	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	109	35 - 197	

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

TEQMinWHO2005Dioxin 0.0498

TOTALS		
Total TCDD	0.234	0.275
Total PeCDD	0.144	0.512
Total HxCDD	1.18	1.71
Total HpCDD	3.62	
Total TCDF	0.0247	0.0480
Total PeCDF	0.0303	
Total HxCDF	ND	0.155
Total HpCDF	0.359	

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-057SC-A-06-07-201109 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002493-12 Date Received: 12-Nov-2020 10:37
Project: GascoSiltronic: US Moorings	Sample Size: 13.7 g	QC Batch: B0L0040 Date Extracted: 05-Dec-2020 13:24
Date Collected: 09-Nov-2020 9:30	% Solids: 74.6	Date Analyzed: 16-Dec-20 18:15 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0396		IS 13C-2,3,7,8-TCDD	118	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0479			13C-1,2,3,7,8-PeCDD	126	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0321			13C-1,2,3,4,7,8-HxCDD	140	32 - 141	
1,2,3,6,7,8-HxCDD	0.0509			J	13C-1,2,3,6,7,8-HxCDD	132	28 - 130	H
1,2,3,7,8,9-HxCDD	0.105			J	13C-1,2,3,7,8,9-HxCDD	131	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.891			J	13C-1,2,3,4,6,7,8-HpCDD	136	23 - 140	
OCDD	10.0			B	13C-OCDD	112	17 - 157	
2,3,7,8-TCDF	ND	0.0109			13C-2,3,7,8-TCDF	120	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0185			13C-1,2,3,7,8-PeCDF	130	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0194			13C-2,3,4,7,8-PeCDF	129	21 - 178	
1,2,3,4,7,8-HxCDF	0.0461			J	13C-1,2,3,4,7,8-HxCDF	111	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0226			13C-1,2,3,6,7,8-HxCDF	104	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0242			13C-2,3,4,6,7,8-HxCDF	112	28 - 136	
1,2,3,7,8,9-HxCDF	0.0307			J	13C-1,2,3,7,8,9-HxCDF	112	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.0725		13C-1,2,3,4,6,7,8-HpCDF	91.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0336			13C-1,2,3,4,7,8,9-HpCDF	115	26 - 138	
OCDF	0.147			J	13C-OCDF	101	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	111	35 - 197	

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

TEQMinWHO2005Dioxin 0.0352

TOTALS								
Total TCDD	0.125		0.165					
Total PeCDD	ND		0.206					
Total HxCDD	0.821		1.23					
Total HpCDD	2.38							
Total TCDF	ND	0.0109						
Total PeCDF	ND	0.0194						
Total HxCDF	0.0971							
Total HpCDF	ND		0.143					

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
K	EMPC (specific projects only)
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
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)

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	19-013-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-23
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Massachusetts Department of Environmental Protection	N/A
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1521520
New Hampshire Environmental Accreditation Program	207718-B
New Jersey Department of Environmental Protection	190001
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-010
Pennsylvania Department of Environmental Protection	016
Texas Commission on Environmental Quality	T104704189-19-10
Vermont Department of Health	VT-4042
Virginia Department of General Services	10272
Washington Department of Ecology	C584-19
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
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	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
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613/1613B
1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS	EPA 522
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	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

COC ID: VISTA-20201109-165115

POC: # Delaney Peterson (360-715-2707)

Project: GascoSiltronic: US Moorings

Sample Custodian: SN

1605 Cornwall Avenue, Bellingham, WA 98225

Client: NW Natural

2002493 2.5°C Lab:

VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-012SC-A-01-02-201109	N	SE	11/09/2020	12:55	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
002	USMPDI-012SC-A-02-03-201109	N	SE	11/09/2020	12:55	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
003	USMPDI-012SC-A-03-04-201109	N	SE	11/09/2020	12:55	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
004	USMPDI-012SC-A-04-05-201109	N	SE	11/09/2020	12:55	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
005	USMPDI-014SC-A-10-11-201109	N	SE	11/09/2020	14:55	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
006	USMPDI-014SC-A-11-12-201109	N	SE	11/09/2020	14:55	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
007	USMPDI-014SC-A-12-13-201109	N	SE	11/09/2020	14:55	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
008	USMPDI-014SC-A-13-14-201109	N	SE	11/09/2020	14:55	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>Sharon Norwood</i>	Print Name: <i>William R. Wright</i>	Print Name:	Print Name:	Print Name:	Print Name:
Company: <i>Anchor-OEA</i>	Company: <i>VIAL</i>	Company:	Company:	Company:	Company:
Date/Time: <i>11/11/20 0740</i>	Date/Time: <i>11/12/20 10:37</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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: VISTA-20201109-165115
Sample Custodian: SN
Lab: VISTA

POC: * Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225
Project: GascoSiltronic: US Moorings
Client: NW Natural

2002493

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected		Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
				Date	Time						
008	USMPDI-014SC-A-13-14-201109	N	SE	11/09/2020	14:55	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
009	USMPDI-057SC-A-03-04-201109	N	SE	11/09/2020	9:30	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
010	USMPDI-057SC-A-04-05-201109	N	SE	11/09/2020	9:30	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
011	USMPDI-057SC-A-05-06-201109	N	SE	11/09/2020	9:30	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C
012	USMPDI-057SC-A-06-07-201109	N	SE	11/09/2020	9:30	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	30	4°C
								Total solids (VISTA)	SM2540G	30	4°C

Comment:

Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature
Print Name J. Peterson	Print Name William R. Vicket	Print Name	Print Name	Print Name	Print Name
Company Anchor QEA	Company VAL	Company	Company	Company	Company
Date/Time 11/11/20 7:40	Date/Time 11/12/20 10:37	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 #: 2002493 TAT Std

Samples Arrival:	Date/Time <u>11/12/20 10:37</u>		Initials: <u>WRW</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>NA</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>2.5</u> (uncorrected)	Probe used: Y <input checked="" type="checkbox"/> N				Thermometer ID: <u>FR-3</u>		
Temp °C: <u>2.5</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>772057926068</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 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>11/12/20 1417</u>		Initials: <u>WRB</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>D2^{70B}_{11/12} H2</u>
COC Anomaly/Sample Acceptance Form completed?			
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2002493

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2002493-01	A USMPDI-012SC-A-01-02-201109		09-Nov-20 12:55	Amber Glass, 120 mL	Solid	
2002493-02	A USMPDI-012SC-A-02-03-201109		09-Nov-20 12:55	Amber Glass, 120 mL	Solid	
2002493-03	A USMPDI-012SC-A-03-04-201109		09-Nov-20 12:55	Amber Glass, 120 mL	Solid	
2002493-04	A USMPDI-012SC-A-04-05-201109		09-Nov-20 12:55	Amber Glass, 120 mL	Solid	
2002493-05	A USMPDI-014SC-A-10-11-201109		09-Nov-20 14:55	Amber Glass, 120 mL	Solid	
2002493-06	A USMPDI-014SC-A-11-12-201109		09-Nov-20 14:55	Amber Glass, 120 mL	Solid	
2002493-07	A USMPDI-014SC-A-12-13-201109		09-Nov-20 14:55	Amber Glass, 120 mL	Solid	
2002493-08	A USMPDI-014SC-A-13-14-201109		09-Nov-20 14:55	Amber Glass, 120 mL	Solid	
2002493-09	A USMPDI-057SC-A-03-04-201109		09-Nov-20 09:30	Amber Glass, 120 mL	Solid	
2002493-10	A USMPDI-057SC-A-04-05-201109		09-Nov-20 09:30	Amber Glass, 120 mL	Solid	
2002493-11	A USMPDI-057SC-A-05-06-201109		09-Nov-20 09:30	Amber Glass, 120 mL	Solid	
2002493-12	A USMPDI-057SC-A-06-07-201109		09-Nov-20 09:30	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	Comments:
Sample Container Intact?	✓			
Sample Custody Seals Intact?			✓	
Adequate Sample Volume?	✓			
Container Type Appropriate for Analysis(es)	✓			
Preservation Documented: Na2S2O3 Trizma None Other			✓	
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓	

Verified by/Date: BBB 11/13/20

EXTRACTION INFORMATION

Process Sheet
Workorder: 2002493

Prep Expiration: 2021-11-09
 Client: Anchor QEA, LLC

Workorder Due: 10-Dec-20 00:00

TAT: 28

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

Prep Batch: B0L0040

Prep Data Entered: DG 12/08/20
Date and Initials

Initial Sequence: S0L0038R

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002493-01	A ✓ <input checked="" type="checkbox"/>	USMPDI-012SC-A-01-02-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-02	✓ <input checked="" type="checkbox"/>	USMPDI-012SC-A-02-03-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-03	✓ <input checked="" type="checkbox"/>	USMPDI-012SC-A-03-04-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-04	✓ <input checked="" type="checkbox"/>	USMPDI-012SC-A-04-05-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-05	✓ <input checked="" type="checkbox"/>	USMPDI-014SC-A-10-11-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-06	✓ <input checked="" type="checkbox"/>	USMPDI-014SC-A-11-12-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-07	✓ <input checked="" type="checkbox"/>	USMPDI-014SC-A-12-13-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-08	✓ <input checked="" type="checkbox"/>	USMPDI-014SC-A-13-14-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-09	✓ <input checked="" type="checkbox"/>	USMPDI-057SC-A-03-04-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-10	✓ <input checked="" type="checkbox"/>	USMPDI-057SC-A-04-05-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-11	✓ <input checked="" type="checkbox"/>	USMPDI-057SC-A-05-06-201109	12-Nov-20 10:37	WR-2 H-2	
2002493-12	✓ <input checked="" type="checkbox"/>	USMPDI-057SC-A-06-07-201109	12-Nov-20 10:37	WR-2 H-2	

WO Comments: 1613: 10g dw

Pre-Prep Check Out: CHT 11/19/20

Prep Check Out: IM 12/06/20

Prep Reconciled Initials/Date: CHT 11/19/20

Pre-Prep Check In: CHT 11/19/20

Prep Check In: IM 12/06/20

Spike Reconciled Initials/Date: IM 12/06/20

VialBoxID: ORNAMENT

PREPARATION BENCH SHEET

Matrix: Solid

BOL0040

Chemist: IM

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 05-Dec-20 13:24

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	Florisol CHEM/ DATE	RS CHEM/WIT DATE
A1	BOL0040-BLK1	N/A	(10.00)	IM DG 12/06/20	IM DG 12/07/20	IM 12/07/20	IM 12/07/20	IM 12/07/20	IM 12/08/20	DG IM 12/08/20
A2	BOL0040-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
A3	2002493-01	12.64	13.10	↓	↓	N/A	brown, red gray lines	↓	↓	↓
A4	2002493-02	13.27	13.46	↓	↓	↓	↓	↓	↓	↓
A5	2002493-03	12.32	13.31	↓	↓	↓	↓	↓	↓	↓
A7	2002493-04	11.54	12.04	↓	↓	↓	↓	↓	↓	↓
A8	2002493-05	18.12	18.24	↓	↓	↓	red orange yellow, black, green	↓	↓	↓
A9	2002493-06	18.07	18.26	↓	↓	IM 12/07/20	x brown, orange, yellow, green, black	↓	↓	↓
A10	2002493-07	17.84	18.09	↓	↓	N/A	brown, orange, yellow, black	↓	↓	↓
B1	2002493-08	15.47	16.00	↓	↓	↓	↓	↓	↓	↓
B2	2002493-09	13.78	14.16	↓	↓	↓	↓	↓	↓	↓
B3	2002493-10	13.33	13.57	↓	↓	↓	↓	↓	↓	↓
B4	2002493-11	12.62	12.75	↓	↓	↓	beige, grey lines	↓	↓	↓
B5	2002493-12	13.40	13.69	↓	↓	↓	↓	↓	↓	↓
B6	2002582-01	6.77	7.06	↓	↓	↓	brown, red, orange, yellow, black, green	↓	↓	↓

IS: 20F1101, 10µL (V3)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: IM 12/06/20	Soxhlet Siphoned Chemist/Date: IM 12/06/20	Notes: (B) sample formed precipitate while rotovapping to ABSG/AA IM 12/07/20 (C) slow to elute AD column w/ 20% IM 12/07/20
NS: 20F0107, 10µL (V4)	Start Date/Time 12/06/20 1409	SOLV: TOL	Check In: Chemist/Date: IM 12/06/20	Vial Transfer Chemist/Date: DG 12/08/20	
PS/CRS: 20E0701, 10µL (V1)	Stop Date/Time 12/07/20 0623	Other: N/A	Balance ID: HRMS-8		
RS: 20H2502, 10µL (V6)		Final Volume(s) 20µL C14			

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

IM 12/07/20

PREPARATION BENCH SHEET

Matrix: Solid

BOL0040

Chemist: IM

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 05-Dec-20 13:24

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	Florisol CHEM/ DATE	RS CHEM/WIT DATE
B7	2002582-02	6.89	7.06	IM DG 12/06/20	IM DG 12/07/20	N/A	IM 12/07/20	IM 12/07/20	IM 12/08/20	DG IM 12/08/20
B8	2002582-03	11.71	12.20	T	T	T	beige lines	T	T	T
B9	2002582-04	8.99	9.40	T	T	T	brwn, yellow, black	T	T	T
B10	2002582-05	13.12	13.37	T	T	T	black; yellow, brown	T	T	T
B11	2002582-06	13.87	14.28	T	T	T	brwn, orange, yellow, black	T	T	T
B12	2002582-07	10.49	10.80	T	T	T	T	T	T	T
C1	2002582-08	7.25	7.67	T	T	T	T	T	T	T

IS: 20F1101, 10µL (V3)	Cycle Time	APP: SEFUN SOX (SDS)	Check Out: Chemist/Date: IM 12/06/20	Soxhlet Siphoned Chemist/Date: IM 12/06/20	Notes: (A) SDS very low on TOL at 'stop time' IM 12/07/20 (B) sample formed precipitate while rotovapping to ABSC/AA IM 12/07/20 (C) beige and red lines on ABSC column IM 12/07/20 (D) stop to put RB under AA column just after eluting w/ 20% HEX/DCM IM 12/07/20
NS: 20F0107, 10µL (V4)	Start Date/Time 12/06/20 1409	SOLV: TOL	Check In: Chemist/Date: IM 12/06/20	Vial Transfer Chemist/Date: DG 12/08/20	
PS/CRS: 20E0701, 10µL (V1)	Stop Date/Time 12/07/20 0623	Other: N/A	Balance ID: HRMS-8		
RS: 20H2502, 10µL (V6)		Final Volume(s) 20µL TOL			
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

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002493-01	13.1 ✓	79.13044	10.3661 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-02	13.46 ✓	75.37474	10.1454 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-03	13.31 ✓	81.14558	10.8005 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-04	12.04 ✓	86.68122	10.4364 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-05	18.24 ✓	55.18072	10.0650 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-06	18.26 ✓	55.34884	10.1067 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-07	18.09 ✓	56.0606	10.1414 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-08	16 ✓	64.62715	10.3403 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-09	14.16 ✓	72.55244	10.2734 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-10	13.57 ✓	75.04425	10.1835 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-11	12.75 ✓	79.24529	10.1038 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002493-12	13.69 ✓	74.63126	10.2170 ✓	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002582-01	7.06 ✓	73.80515	5.2106	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002582-02	7.06 ✓	72.61363	5.1265	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002582-03	12.2 ✓	42.71186	5.2108	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002582-04	9.4 ✓	55.58699	5.2252	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002582-05	13.37 ✓	38.09524	5.0933	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002582-06	14.28 ✓	36.05948	5.1493	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002582-07	10.8 ✓	47.67081	5.1484	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
2002582-08	7.67 ✓	69.00958	5.2930	20	05-Dec-20 13:24	IM			Sediment	1613 Full List
B0L0040-BLK1	10			20	05-Dec-20 13:24	IM				QC
B0L0040-BS1	10			20	05-Dec-20 13:24	IM	20F0107 ✓	10 ✓		QC

All bolded data on report verified against written benchsheet by (initial/date) DG 12/09/20

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0K0139

Analyst: CHT ✓	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) CHT 11/20/20
Analyte:	Units: %	
Oven ID: 01 02 ✓	Dried at 110°C +/- 5°C	

Inst HRMS-9 ✓

Date/Time IN: 11/19/20 1204 ✓
Date/Time OUT: 11/20/20 0839 ✓

Particle Size	SampID	SampType	Initial and Date:		G		H	I	K				O	P
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)			%Solids RawVal	Visual Inspection	Cl- Before	pH After		
	2002493-01	A	1.2700 ✓	4.7200 ✓	4.0000 ✓	2.7300 ✓	79.13	DIRT/SOIL	N/A	N/A	N/A	N/A	X	
	2002493-02	A	1.2600 ✓	5.9300 ✓	4.7800 ✓	3.5200 ✓	75.37	DIRT/SOIL	N/A	N/A	N/A	N/A	X	
	2002493-03	A	1.2600 ✓	5.4500 ✓	4.6600 ✓	3.4000 ✓	81.15	DIRT/SOIL	N/A	N/A	N/A	N/A	X	
	2002493-04	A	1.2600 ✓	5.8400 ✓	5.2300 ✓	3.9700 ✓	86.68	DIRT/SOIL	N/A	N/A	N/A	N/A	X	
	2002493-05	A	1.2900 ✓	5.4400 ✓	3.5800 ✓	2.2900 ✓	55.18	MUD	N/A	N/A	N/A	N/A	X	
	2002493-06	A	1.2700 ✓	5.5700 ✓	3.6500 ✓	2.3800 ✓	55.35	MUD	N/A	N/A	N/A	N/A	X	
	2002493-07	A	1.2800 ✓	6.5600 ✓	4.2400 ✓	2.9600 ✓	56.06	MUD	N/A	N/A	N/A	N/A	X	
	2002493-08	A	1.2700 ✓	6.5000 ✓	4.6500 ✓	3.3800 ✓	64.63	MUD	N/A	N/A	N/A	N/A	X	
	2002493-09	A	1.2800 ✓	7.0000 ✓	5.4300 ✓	4.1500 ✓	72.55	MUD	N/A	N/A	N/A	N/A	X	
	2002493-10	A	1.2700 ✓	6.9200 ✓	5.5100 ✓	4.2400 ✓	75.04	MUD	N/A	N/A	N/A	N/A	X	
	2002493-11	A	1.2700 ✓	5.5100 ✓	4.6300 ✓	3.3600 ✓	79.25	DIRT/SOIL	N/A	N/A	N/A	N/A	X	
	2002493-12	A	1.2800 ✓	4.6700 ✓	3.8100 ✓	2.5300 ✓	74.63	DIRT/SOIL	N/A	N/A	N/A	N/A	X	

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0K0139

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

Inst HRMS-9

Date/Time IN: 11/19/20 1704
Date/Time OUT: 11/20/20 0839

Particle Size	SampleID	Sample Type	Initial and Date:	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl- Before	pH After	pH Added	Sample Homogenized*
			CHT 11/19/20	CHT 11/20/20				CHT 11/19/20				CHT 11/20/20
	2002493-01	Sample	1.27	4.72	4.00			Dirt/soil				
	2002493-02	Sample	1.26	5.93	4.78			↓				
	2002493-03	Sample	1.26	5.45	4.66							
	2002493-04	Sample	1.26	5.84	5.23							
	2002493-05	Sample	1.29	5.44	3.58			Mud				
	2002493-06	Sample	1.27	5.57	3.65							
	2002493-07	Sample	1.28	6.56	4.24							
	2002493-08	Sample	1.27	6.50	4.65							
	2002493-09	Sample	1.28	7.00	5.43							
	2002493-10	Sample	1.27	6.92	5.51							
	2002493-11	Sample	1.27	5.51	4.63			Dirt/soil				
	2002493-12	Sample	1.28	4.67	3.81							

*Sample homogenized in sample container unless otherwise noted.

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_7.qld

Last Altered: Monday, December 28, 2020 13:11:34 Pacific Standard Time
Printed: Monday, December 28, 2020 13:13:41 Pacific Standard Time

HN 12/28/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

C7 12/28/2020

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-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	0.980	10.000	26.381		1.001				0.0193	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.000	31.079		1.001				0.0191	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.358		1.001				0.0256	
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.000	34.483		1.001				0.0270	
5	5 1,2,3,7,8,9-HxCDD			NO	0.954	10.000	34.734		1.000				0.0280	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.918	10.000	38.200		1.000				0.0450	
7	7 OCDD	3.73e2	1.00	NO	0.866	10.000	41.113	41.13	1.000	1.001	0.16189		0.117	0.162
8	8 2,3,7,8-TCDF			NO	0.848	10.000	25.672		1.000				0.0107	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.000	29.785		1.000				0.0172	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.000	30.874		1.001				0.0150	
11	11 1,2,3,4,7,8-HxCDF			NO	0.986	10.000	33.446		1.000				0.0159	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.000	33.592		1.001				0.0165	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.000	34.253		1.001				0.0190	
14	14 1,2,3,7,8,9-HxCDF			NO	0.991	10.000	35.238		1.000				0.0224	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000	36.814		1.000				0.0398	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.000	38.828		1.000				0.0320	
17	17 OCDF			NO	0.896	10.000	41.406		1.000				0.0331	
18	18 13C-2,3,7,8-TCDD	1.49e6	0.77	NO	1.06	10.000	26.353	26.35	1.030	1.030	193.19	96.6	0.0868	
19	19 13C-1,2,3,7,8-PeCDD	1.26e6	0.64	NO	0.785	10.000	31.192	31.05	1.219	1.214	219.85	110	0.169	
20	20 13C-1,2,3,4,7,8-HxCDD	8.90e5	1.26	NO	0.621	10.000	34.337	34.34	1.014	1.014	218.21	109	0.380	
21	21 13C-1,2,3,6,7,8-HxCDD	9.98e5	1.27	NO	0.734	10.000	34.459	34.46	1.017	1.017	206.74	103	0.321	
22	22 13C-1,2,3,7,8,9-HxCDD	9.61e5	1.25	NO	0.723	10.000	34.743	34.72	1.026	1.025	202.18	101	0.326	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.38e5	1.04	NO	0.568	10.000	38.243	38.19	1.129	1.127	197.73	98.9	0.591	
24	24 13C-OCDD	1.06e6	0.87	NO	0.496	10.000	41.180	41.10	1.216	1.213	326.15	81.5	0.510	
25	25 13C-2,3,7,8-TCDF	2.07e6	0.77	NO	0.919	10.000	25.652	25.67	1.003	1.003	203.48	102	0.140	
26	26 13C-1,2,3,7,8-PeCDF	1.85e6	1.59	NO	0.715	10.000	29.903	29.78	1.169	1.164	233.65	117	0.276	
27	27 13C-2,3,4,7,8-PeCDF	1.74e6	1.58	NO	0.689	10.000	30.990	30.85	1.212	1.206	228.80	114	0.287	
28	28 13C-1,2,3,4,7,8-HxCDF	1.14e6	0.51	NO	0.873	10.000	33.442	33.44	0.987	0.987	199.33	99.7	0.408	
29	29 13C-1,2,3,6,7,8-HxCDF	1.13e6	0.51	NO	0.933	10.000	33.571	33.57	0.991	0.991	184.55	92.3	0.382	
30	30 13C-2,3,4,6,7,8-HxCDF	1.06e6	0.51	NO	0.843	10.000	34.238	34.23	1.011	1.011	192.06	96.0	0.422	
31	31 13C-1,2,3,7,8,9-HxCDF	9.73e5	0.50	NO	0.780	10.000	35.238	35.23	1.040	1.040	189.73	94.9	0.457	

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_7.qld

Last Altered: Monday, December 28, 2020 13:11:34 Pacific Standard Time

Printed: Monday, December 28, 2020 13:13:41 Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-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	7.34e5	0.43	NO	0.726	10.000	36.813	36.80	1.087	1.086	153.58	76.8	0.431	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.20e5	0.43	NO	0.491	10.000	38.822	38.82	1.146	1.146	191.87	95.9	0.637	
34	34 13C-OCDF	1.17e6	0.87	NO	0.565	10.000	41.396	41.40	1.222	1.222	315.47	78.9	0.362	
35	35 37Cl-2,3,7,8-TCDD	6.66e5			1.22	10.000	26.347	26.38	1.030	1.031	75.089	93.9	0.0244	
36	36 13C-1,2,3,4-TCDD	1.46e6	0.79	NO	1.00	10.000	25.640	25.58	1.000	1.000	200.00	100	0.0917	
37	37 13C-1,2,3,4-TCDF	2.21e6	0.78	NO	1.00	10.000	24.130	24.09	1.000	1.000	200.00	100	0.128	
38	38 13C-1,2,3,4,6,9-HxCDF	1.32e6	0.51	NO	1.00	10.000	33.920	33.88	1.000	1.000	200.00	100	0.356	
39	39 Total Tetra-Dioxins				0.980	10.000	24.620		0.000				0.0123	
40	40 Total Penta-Dioxins				0.932	10.000	29.960		0.000				0.00635	
41	41 Total Hexa-Dioxins				0.902	10.000	33.635		0.000				0.0165	
42	42 Total Hepta-Dioxins				0.918	10.000	37.640		0.000				0.0301	
43	43 Total Tetra-Furans				0.848	10.000	23.610		0.000				0.00477	
44	44 1st Func. Penta-Furans				0.960	10.000	26.930		0.000				0.00419	
45	45 Total Penta-Furans				0.960	10.000	29.275		0.000				0.00749	
46	46 Total Hexa-Furans				1.02	10.000	33.555		0.000				0.00920	
47	47 Total Hepta-Furans				1.05	10.000	37.835		0.000				0.0140	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_7.qld

Last Altered: Monday, December 28, 2020 13:11:34 Pacific Standard Time

Printed: Monday, December 28, 2020 13:13:41 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-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\201214R1\201214R1_7.qld

Last Altered: Monday, December 28, 2020 13:11:34 Pacific Standard Time

Printed: Monday, December 28, 2020 13:13:41 Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-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												

Hexa-Furans

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

Hepta-Furans

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

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_7.qld

Last Altered: Tuesday, December 15, 2020 7:06:24 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 11:25:40 AM Pacific Standard Time

HIN 12/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-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	0.980	10.000	26.381		1.001				0.0193	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.000	31.079		1.001				0.0191	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.357		1.001				0.0256	
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.000	34.483		1.001				0.0270	
5	5 1,2,3,7,8,9-HxCDD			NO	0.954	10.000	34.735		1.000				0.0280	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.918	10.000	38.201		1.000				0.0450	
7	7 OCDD			NO	0.866	10.000	41.113		1.000				0.117	
8	8 2,3,7,8-TCDF			NO	0.848	10.000	25.671		1.000				0.0107	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.000	29.785		1.000				0.0172	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.000	30.874		1.001				0.0150	
11	11 1,2,3,4,7,8-HxCDF			NO	0.986	10.000	33.446		1.000				0.0159	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.000	33.593		1.001				0.0165	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.000	34.253		1.001				0.0190	
14	14 1,2,3,7,8,9-HxCDF			NO	0.991	10.000	35.237		1.000				0.0224	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000	36.814		1.000				0.0398	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.000	38.828		1.000				0.0320	
17	17 OCDF			NO	0.896	10.000	41.406		1.000				0.0331	
18	18 13C-2,3,7,8-TCDD	1.49e6	0.77	NO	1.06	10.000	26.353	26.35	1.030	1.030	193.19	96.6	0.0868	
19	19 13C-1,2,3,7,8-PeCDD	1.26e6	0.64	NO	0.785	10.000	31.192	31.05	1.219	1.214	219.85	110	0.169	
20	20 13C-1,2,3,4,7,8-HxCDD	8.90e5	1.26	NO	0.621	10.000	34.337	34.34	1.014	1.014	218.21	109	0.380	
21	21 13C-1,2,3,6,7,8-HxCDD	9.98e5	1.27	NO	0.734	10.000	34.459	34.46	1.017	1.017	206.74	103	0.321	
22	22 13C-1,2,3,7,8,9-HxCDD	9.61e5	1.25	NO	0.723	10.000	34.743	34.72	1.026	1.025	202.18	101	0.326	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.38e5	1.04	NO	0.568	10.000	38.243	38.19	1.129	1.127	197.73	98.9	0.591	
24	24 13C-OCDD	1.06e6	0.87	NO	0.496	10.000	41.180	41.10	1.216	1.213	326.15	81.5	0.510	
25	25 13C-2,3,7,8-TCDF	2.07e6	0.77	NO	0.919	10.000	25.652	25.67	1.003	1.003	203.48	102	0.140	
26	26 13C-1,2,3,7,8-PeCDF	1.85e6	1.59	NO	0.715	10.000	29.903	29.78	1.169	1.164	233.65	117	0.276	
27	27 13C-2,3,4,7,8-PeCDF	1.74e6	1.58	NO	0.689	10.000	30.990	30.85	1.212	1.206	228.80	114	0.287	
28	28 13C-1,2,3,4,7,8-HxCDF	1.14e6	0.51	NO	0.873	10.000	33.443	33.44	0.987	0.987	199.33	99.7	0.408	
29	29 13C-1,2,3,6,7,8-HxCDF	1.13e6	0.51	NO	0.933	10.000	33.571	33.57	0.991	0.991	184.55	92.3	0.382	
30	30 13C-2,3,4,6,7,8-HxCDF	1.06e6	0.50	NO	0.843	10.000	34.239	34.23	1.011	1.010	192.06	96.0	0.422	
31	31 13C-1,2,3,7,8,9-HxCDF	9.73e5	0.50	NO	0.780	10.000	35.238	35.23	1.040	1.040	189.73	94.9	0.457	

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_7.qld

Last Altered: Tuesday, December 15, 2020 7:06:24 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 11:25:40 AM Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-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	7.34e5	0.44	NO	0.726	10.000	36.813	36.80	1.087	1.086	153.58	76.8	0.431	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.20e5	0.43	NO	0.491	10.000	38.822	38.82	1.146	1.146	191.87	95.9	0.637	
34	34 13C-OCDF	1.17e6	0.87	NO	0.565	10.000	41.397	41.40	1.222	1.222	315.47	78.9	0.362	
35	35 37Cl-2,3,7,8-TCDD	6.66e5			1.22	10.000	26.348	26.38	1.030	1.031	75.089	93.9	0.0244	
36	36 13C-1,2,3,4-TCDD	1.46e6	0.79	NO	1.00	10.000	25.640	25.58	1.000	1.000	200.00	100	0.0917	
37	37 13C-1,2,3,4-TCDF	2.21e6	0.78	NO	1.00	10.000	24.130	24.09	1.000	1.000	200.00	100	0.128	
38	38 13C-1,2,3,4,6,9-HxCDF	1.32e6	0.51	NO	1.00	10.000	33.920	33.88	1.000	1.000	200.00	100	0.356	
39	39 Total Tetra-Dioxins				0.980	10.000	24.620		0.000				0.0123	
40	40 Total Penta-Dioxins				0.932	10.000	29.960		0.000				0.00635	
41	41 Total Hexa-Dioxins				0.902	10.000	33.635		0.000				0.0165	
42	42 Total Hepta-Dioxins				0.918	10.000	37.640		0.000				0.0301	
43	43 Total Tetra-Furans				0.848	10.000	23.610		0.000				0.00477	
44	44 1st Func. Penta-Furans				0.960	10.000	26.930		0.000				0.00419	
45	45 Total Penta-Furans				0.960	10.000	29.275		0.000				0.00749	
46	46 Total Hexa-Furans				1.02	10.000	33.555		0.000				0.00920	
47	47 Total Hepta-Furans				1.05	10.000	37.835		0.000				0.0140	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_7.qld

Last Altered: Tuesday, December 15, 2020 7:06:24 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 11:25:40 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-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												

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_7.qld

Last Altered: Tuesday, December 15, 2020 7:06:24 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 11:25:40 AM Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-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												

Hexa-Furans

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

Hepta-Furans

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

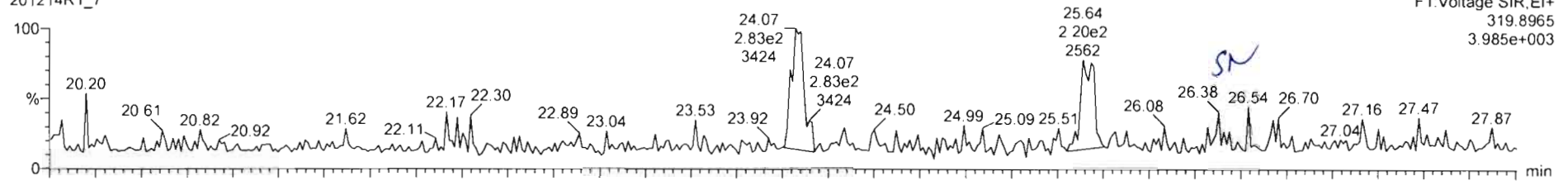
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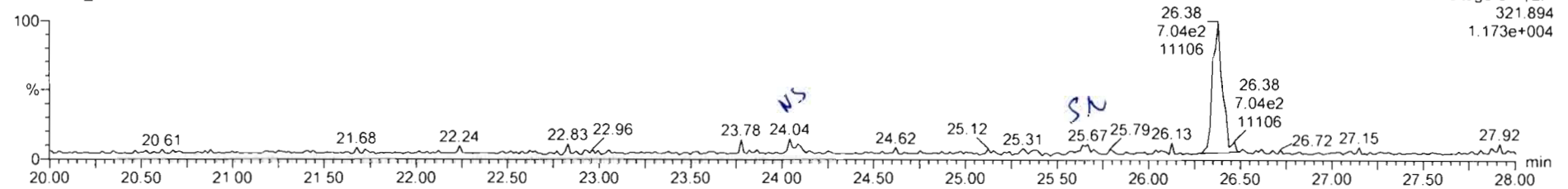
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2,3,7,8-TCDD

201214R1_7

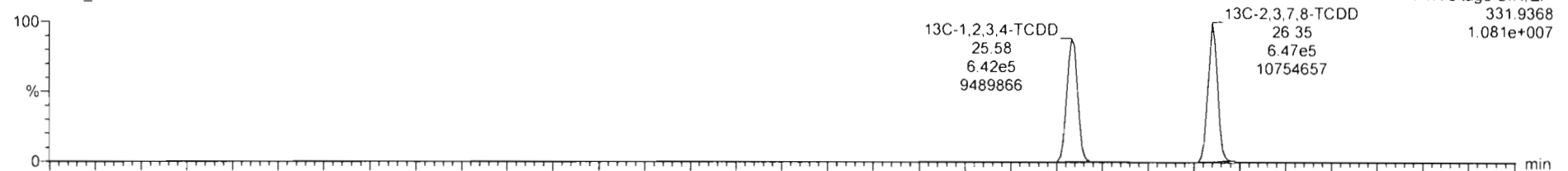


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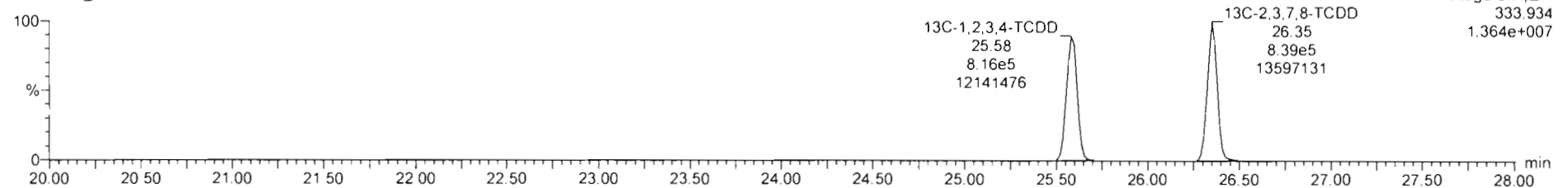


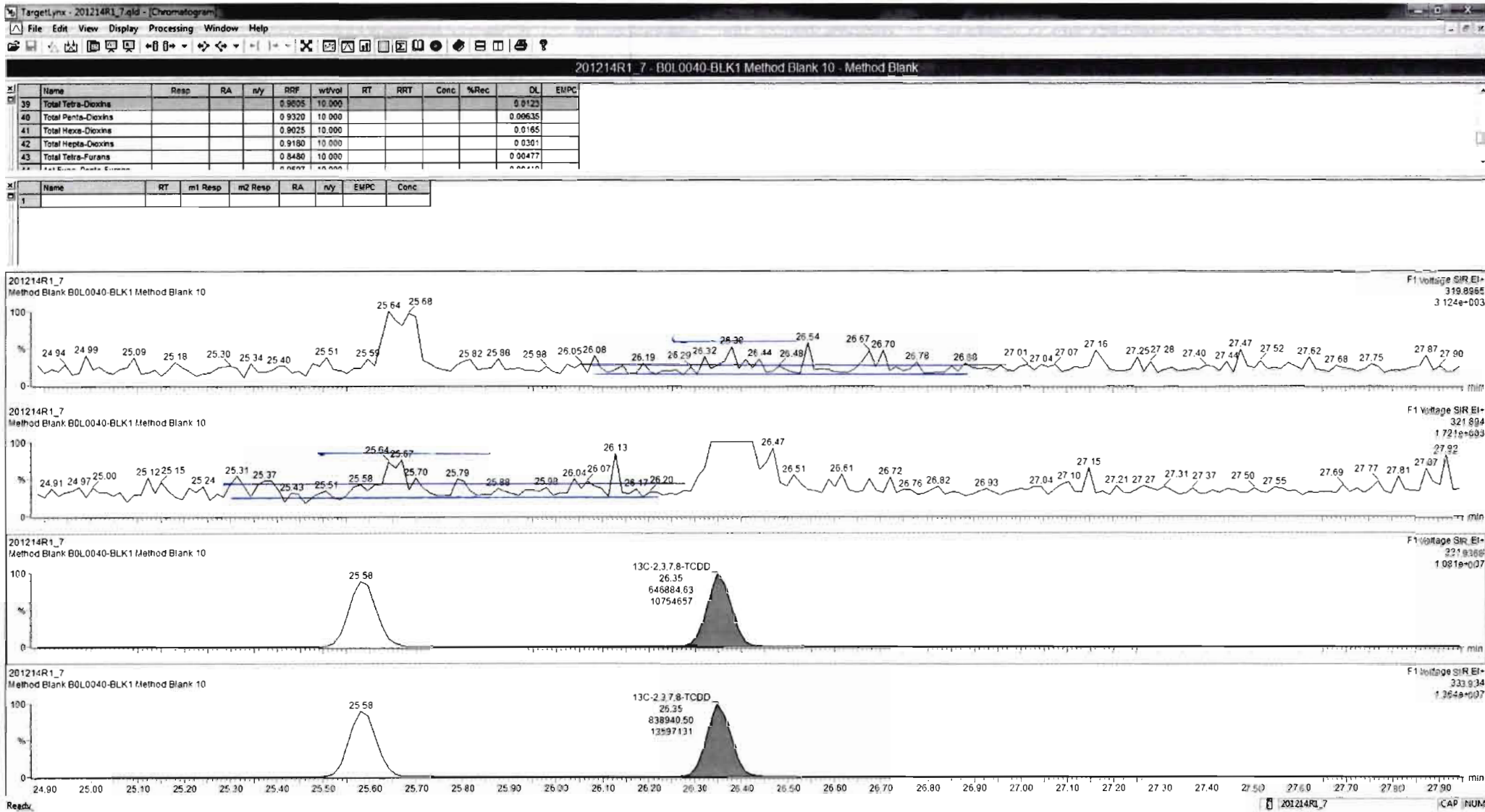
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201214R1_7



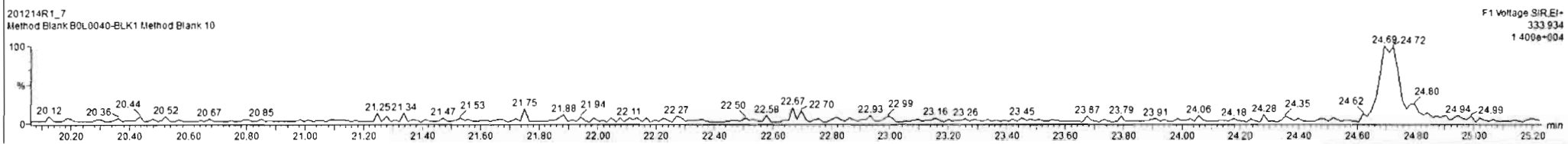
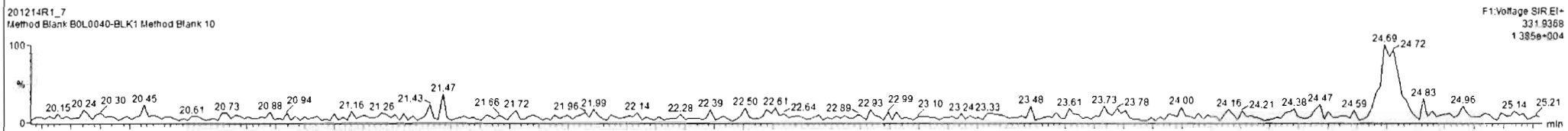
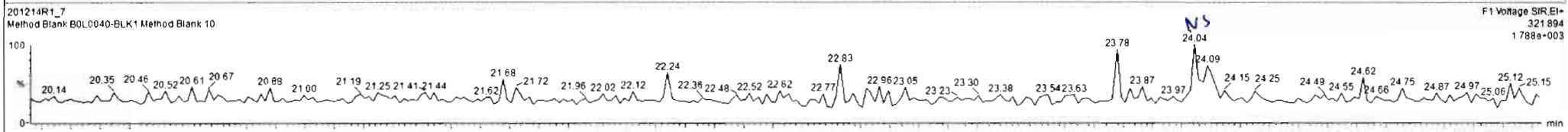
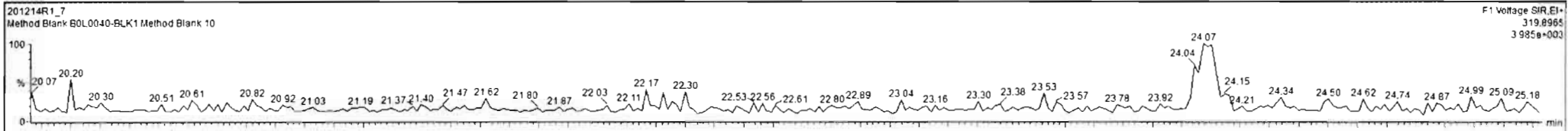
201214R1_7





Name	Resp	RA	n/y	RRF	wf/wd	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9955	10.000					0.0123	
40 Total Penta-Dioxins				0.9320	10.000					0.00635	
41 Total Hexa-Dioxins				0.9025	10.000					0.0185	
42 Total Hepta-Dioxins				0.9180	10.000					0.0301	
43 Total Tetra-Furans				0.8480	10.000					0.00477	

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



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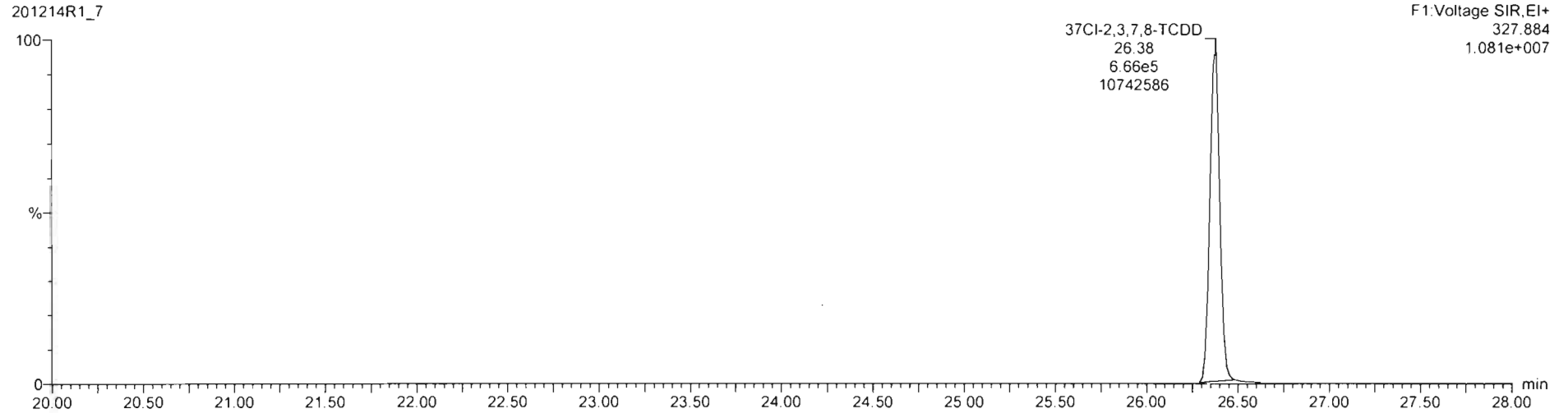
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Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-BLK1 Method Blank 10, Description: Method Blank

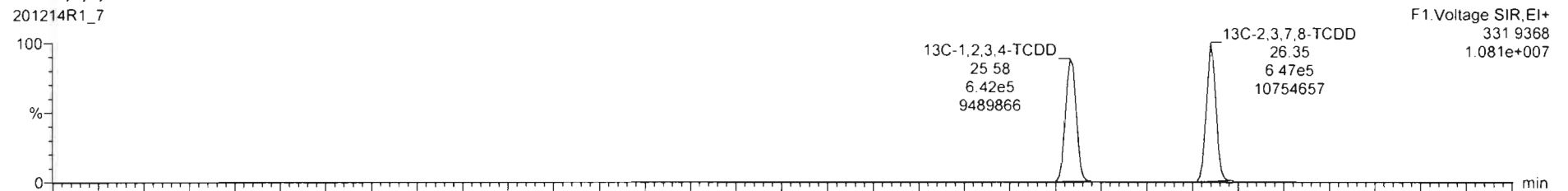
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201214R1_7

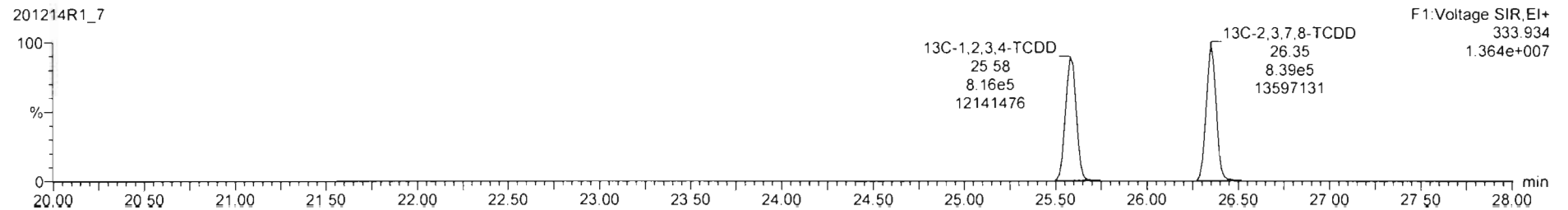


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201214R1_7



201214R1_7

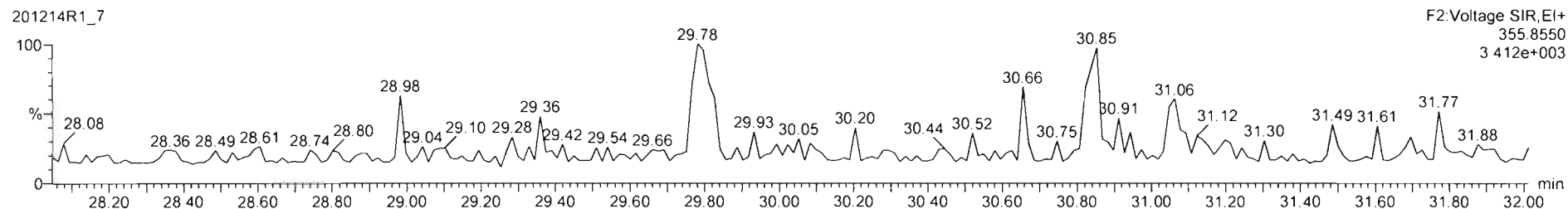
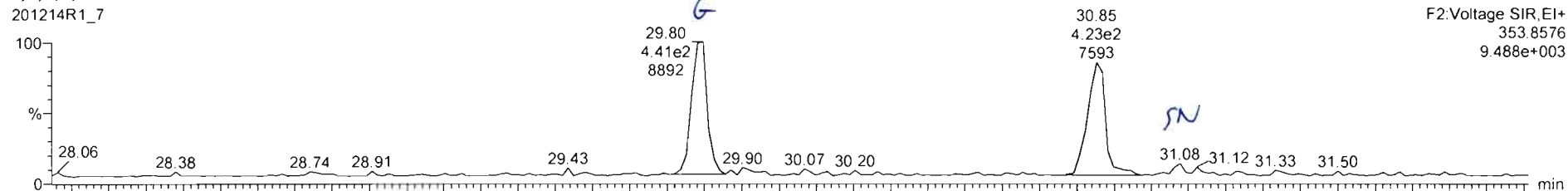


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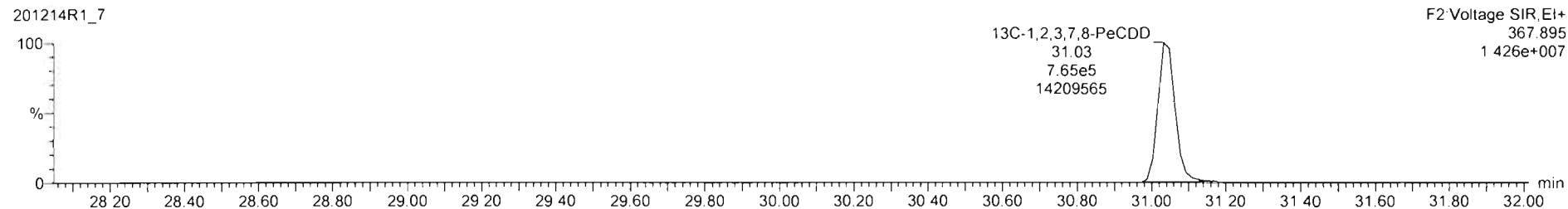
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1,2,3,7,8-PeCDD



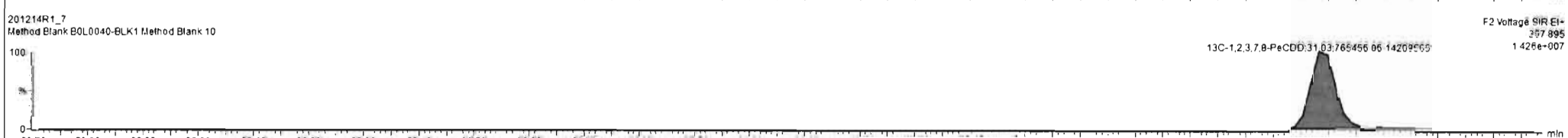
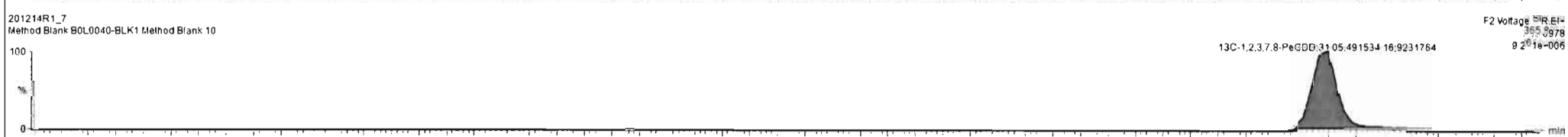
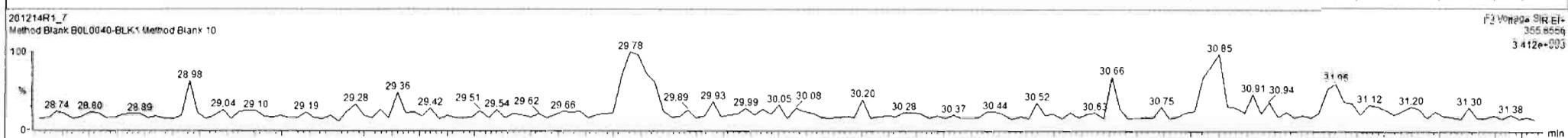
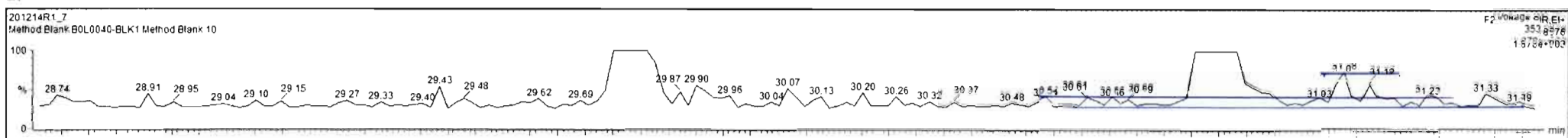
13C-1,2,3,7,8-PeCDD



201214R1_7 - BOL0040-BL1 K1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9805	10.000					0.0123	
40 Total Penta-Dioxins				0.9323	10.000					0.00635	
41 Total Hexa-Dioxins				0.9025	10.000					0.0165	
42 Total Hepta-Dioxins				0.9180	10.000					0.0301	
43 Total Tetra-Furans				0.8480	10.000					0.00477	

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



Dataset: Untitled

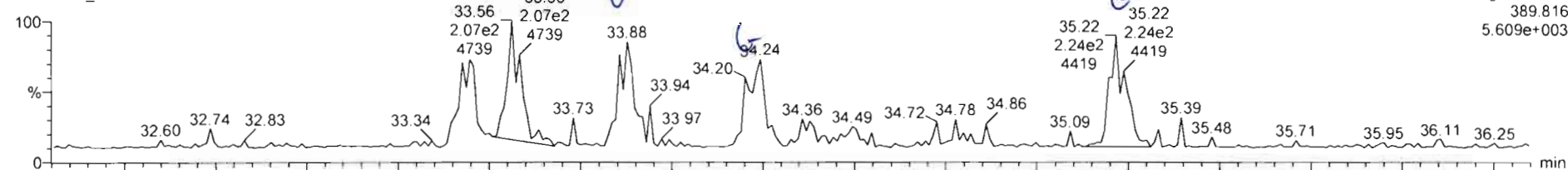
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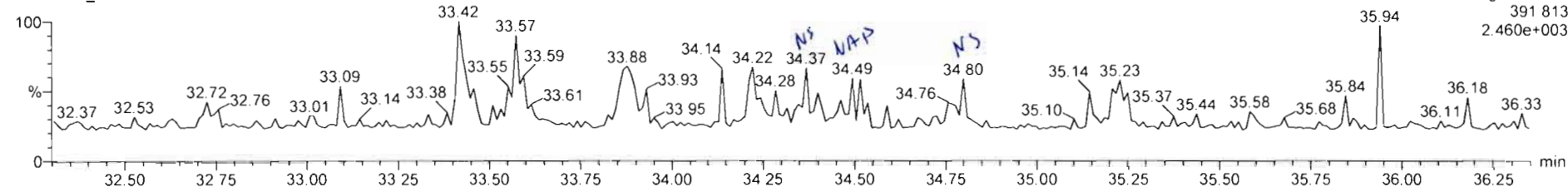
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1,2,3,4,7,8-HxCDD

201214R1_7

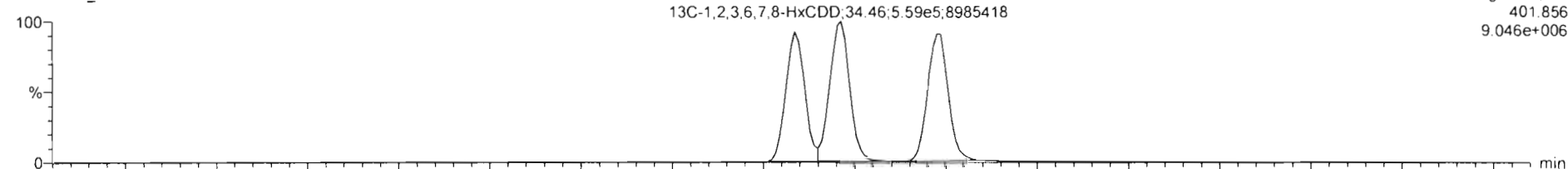


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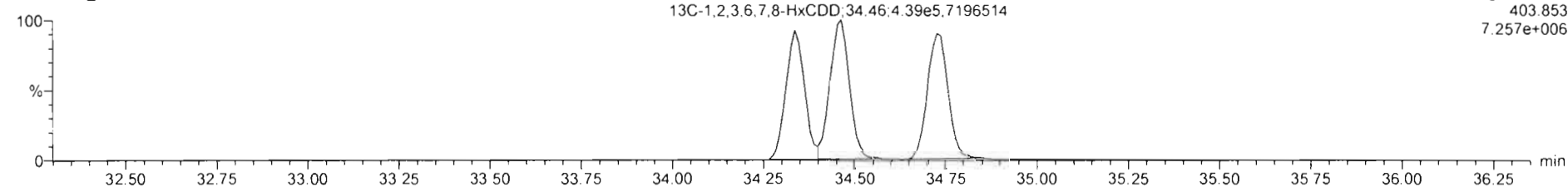


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201214R1_7



201214R1_7



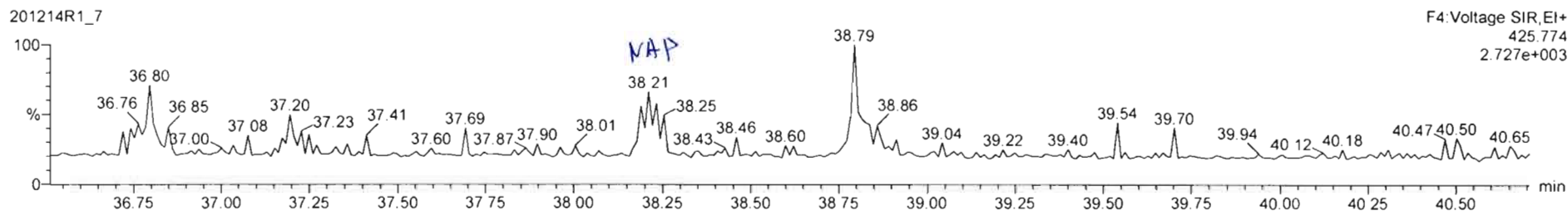
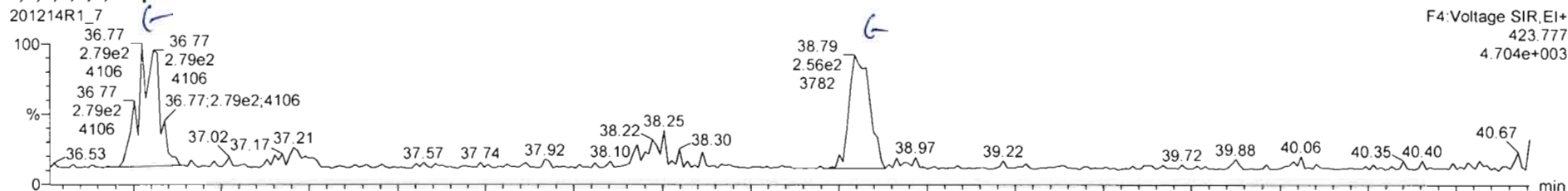
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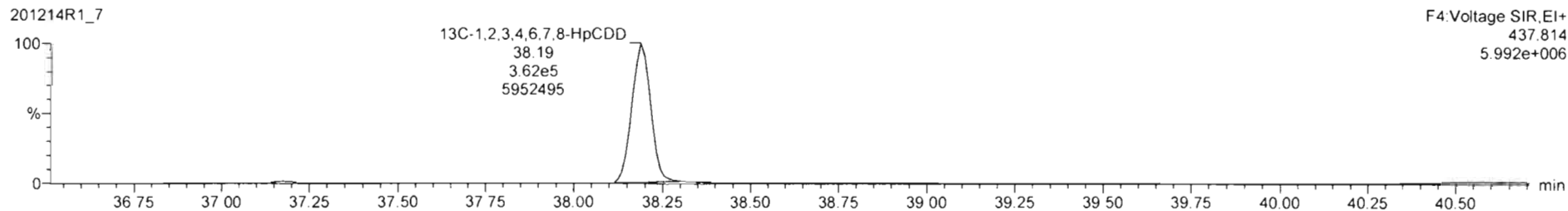
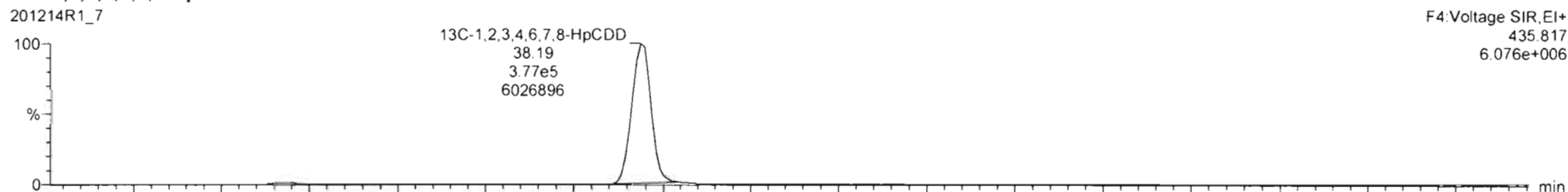
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1,2,3,4,6,7,8-HpCDD



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

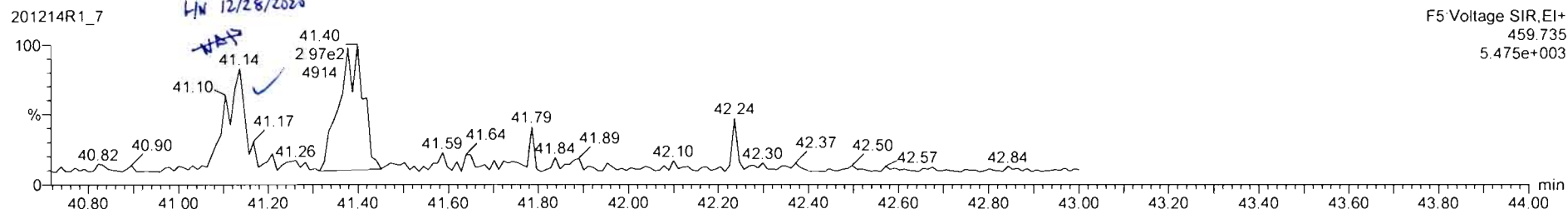
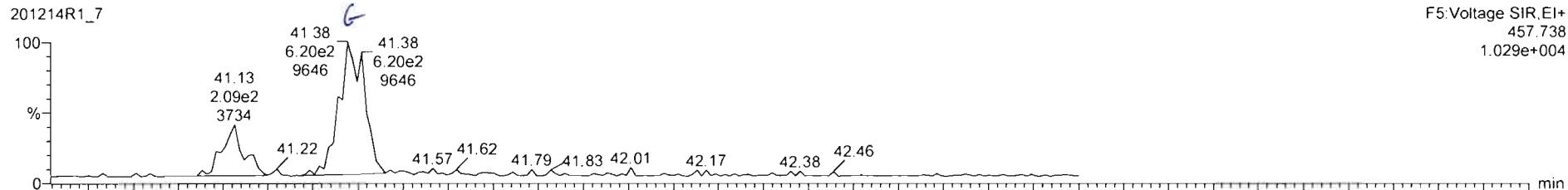


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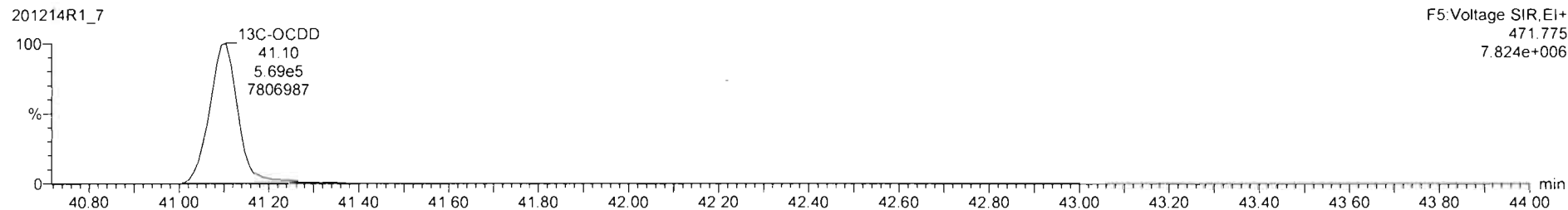
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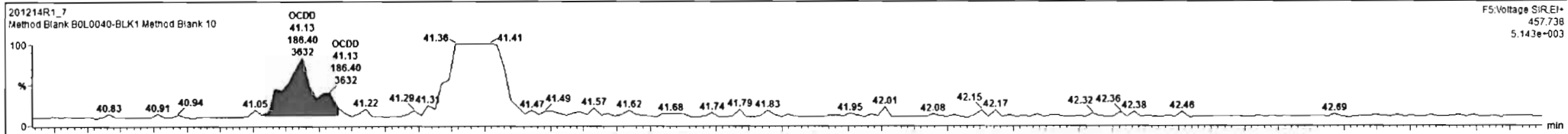
OCDD



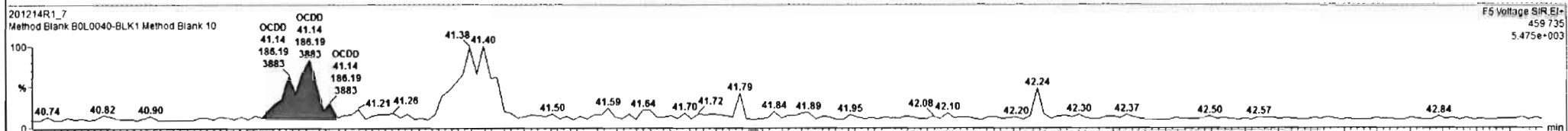
13C-OCDD



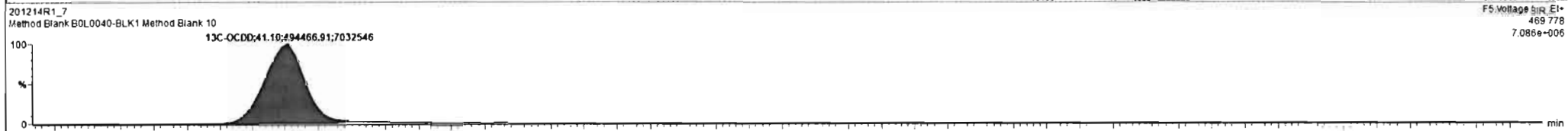
Name	Reap	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1			NO	0.9805	10.000					0.0193	
2			NO	0.9320	10.000					0.0191	
3			NO	1.0203	10.000					0.0256	
4			NO	0.9025	10.000					0.0270	
5			NO	0.9542	10.000					0.0280	
6			NO	0.9180	10.000					0.0450	
7	OCDD	3.73e2	1.00	NO	0.8958	10.000	41.13	1.001	0.162	0.117	0.162
8	2,3,7,8-TCDF			NO	0.8480	10.000				0.0107	
9	1,2,3,7,8-PeCDF			NO	0.9597	10.000				0.0172	
10	2,3,4,7,8-PeCDF			NO	1.0671	10.000				0.0150	
11	1,2,3,4,7,8-HxCDF			NO	0.9859	10.000				0.0159	
12	1,2,3,6,7,8-HxCDF			NO	1.0388	10.000				0.0165	



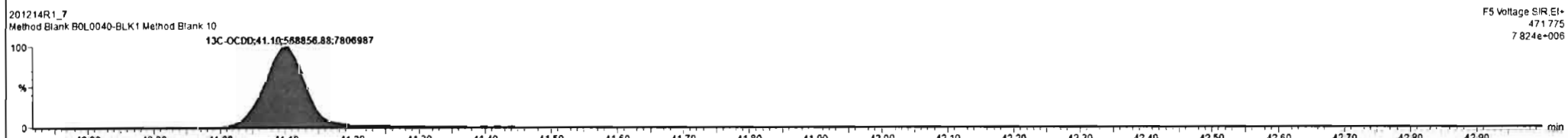
F5:Voltage SIR.EI+
457.738
5.143e-003



F5:Voltage SIR.EI+
459.735
5.475e-003



F5:Voltage SIR.EI+
469.778
7.086e-006



F5:Voltage SIR.EI+
471.775
7.824e-006

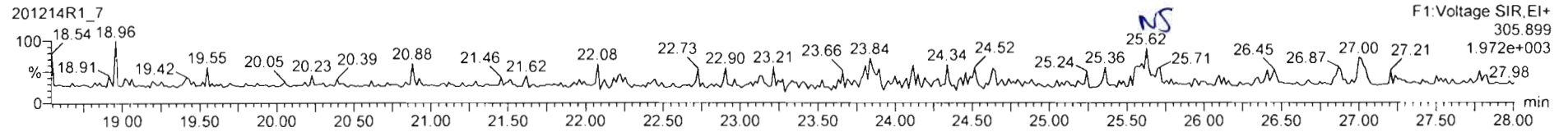
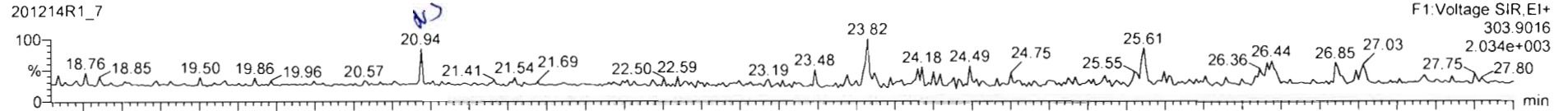
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Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time

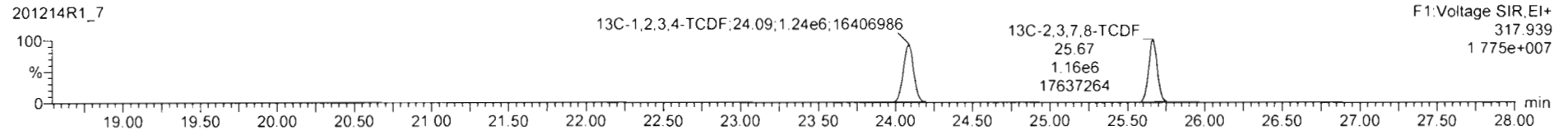
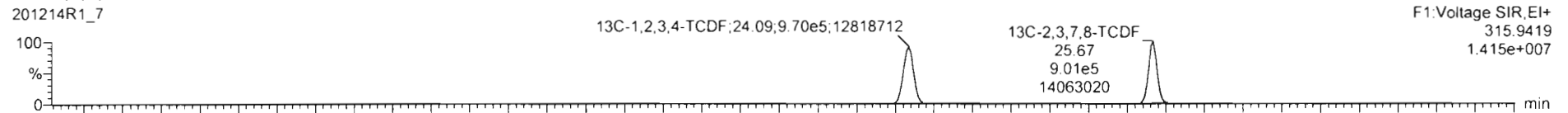
Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-BLK1 Method Blank 10, Description: Method Blank

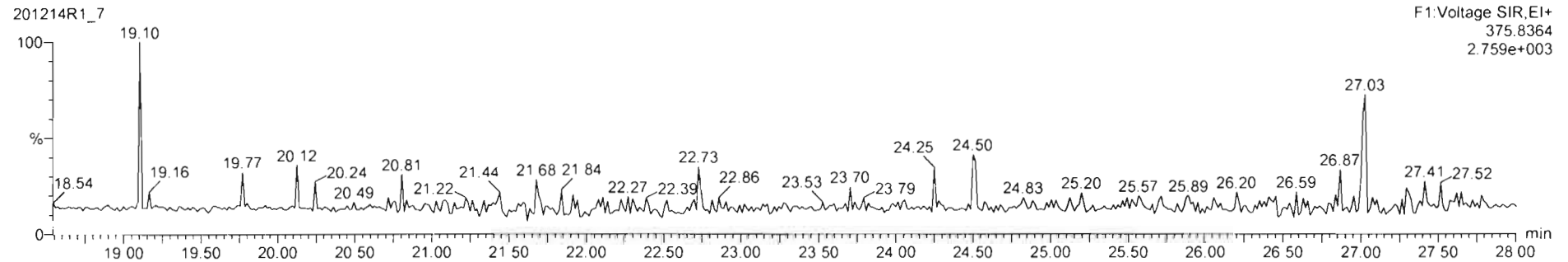
2,3,7,8-TCDF



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

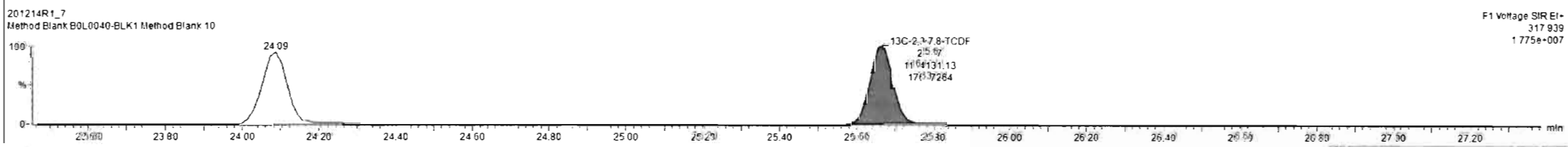
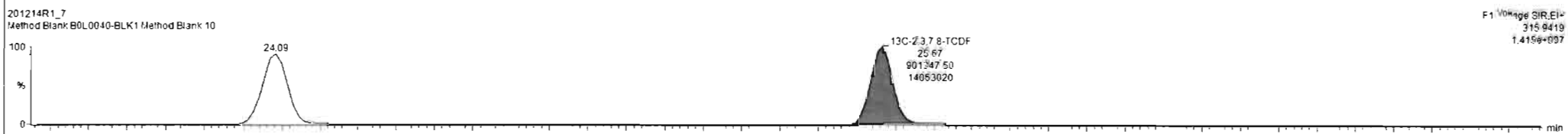
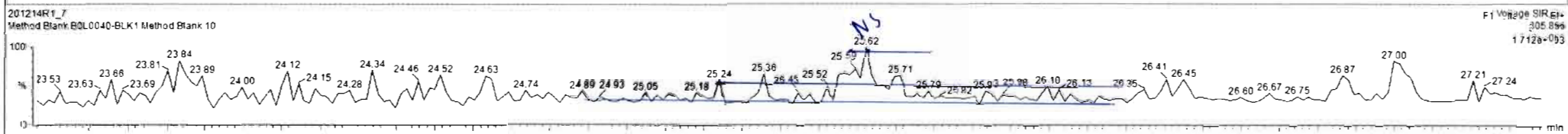
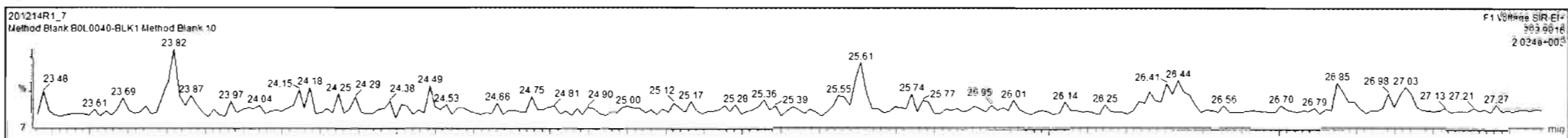


DPE1



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8460	10.000					0.00417	
44 1st Func. Penta-Furans				0.9597	10.000					0.00419	
45 Total Penta-Furans				0.9597	10.000					0.00749	
46 Total Hexa-Furans				1.0202	10.000					0.00920	
47 Total Hepta-Furans				1.0492	10.000					0.0140	

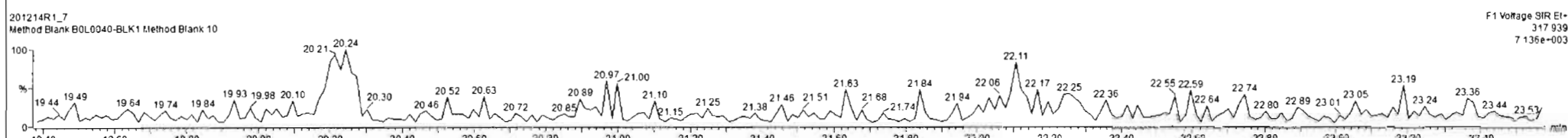
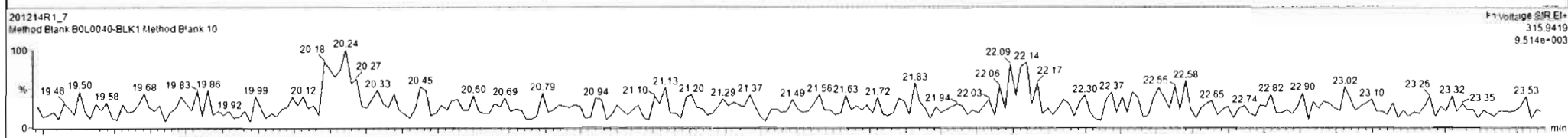
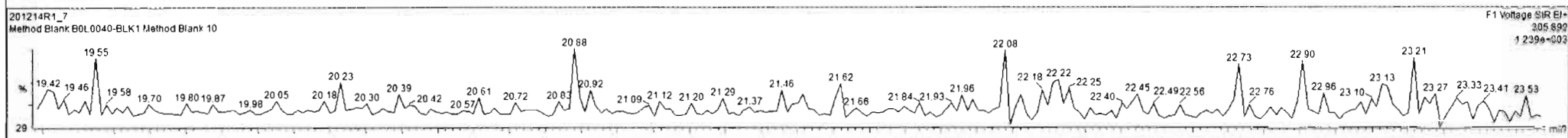
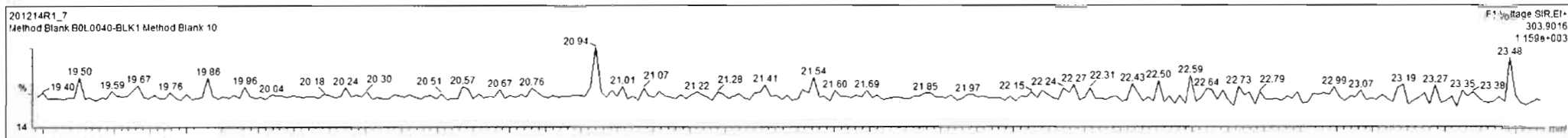
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



201214R1_7 - B0L0040-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.2450	10.000					0.00477	
44 1st Func. Penta-Furans				0.9597	10.000					0.00419	
45 Total Penta-Furans				0.9597	10.000					0.00749	
46 Total Hexa-Furans				1.0262	10.000					0.00920	
47 Total Hepta-Furans				1.0492	10.000					0.0140	

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



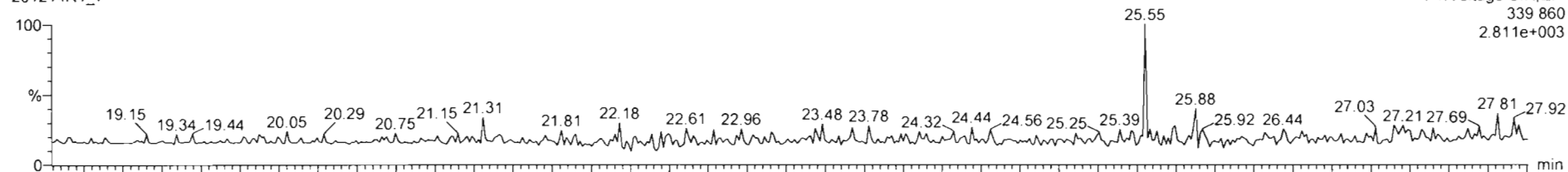
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Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

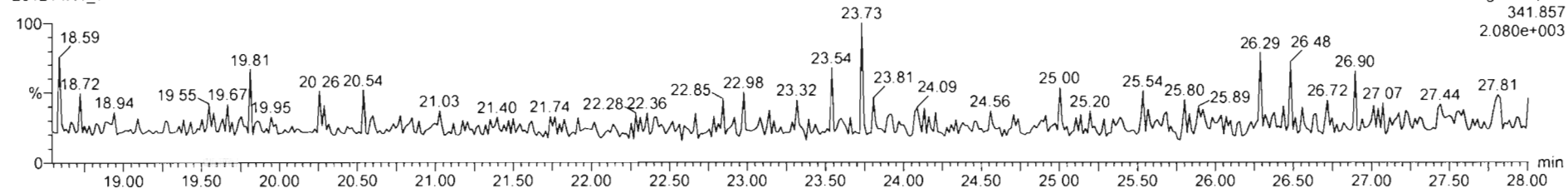
Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

201214R1_7

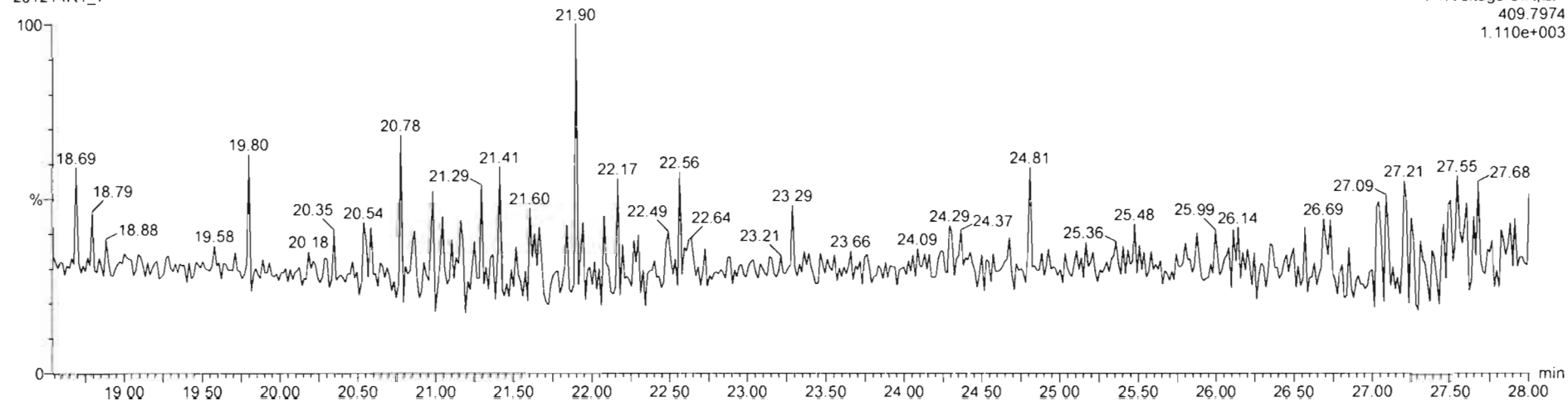


201214R1_7



DPE6

201214R1_7



Dataset: Untitled

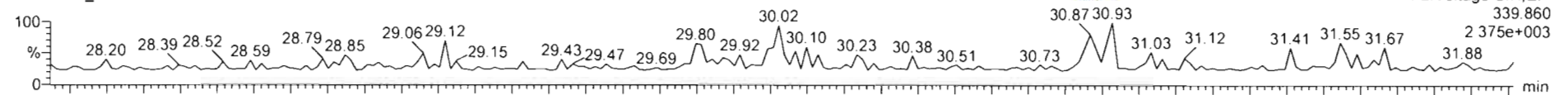
Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time

Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

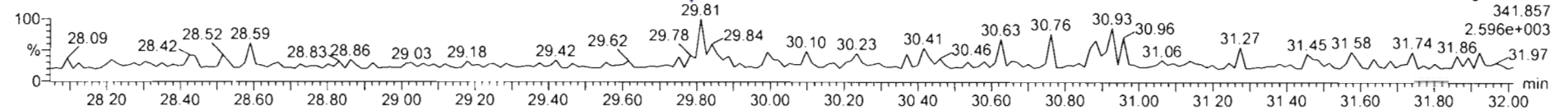
Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDF

201214R1_7

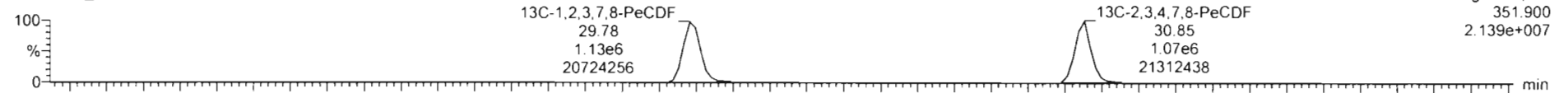


201214R1_7

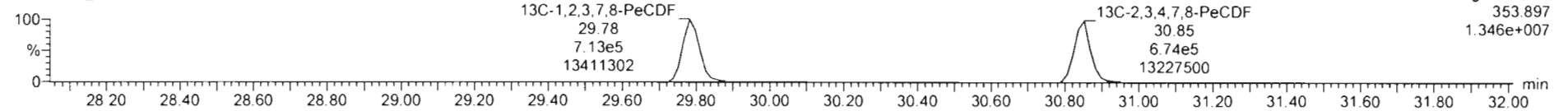


13C-1,2,3,7,8-PeCDF

201214R1_7

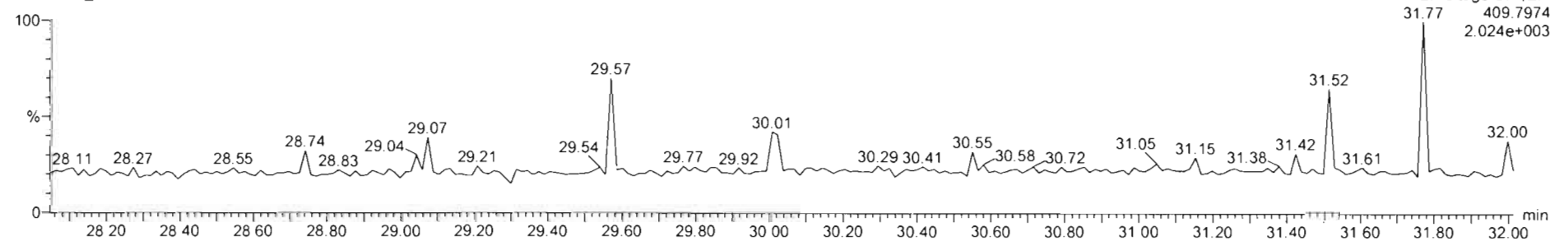


201214R1_7



DPE2

201214R1_7

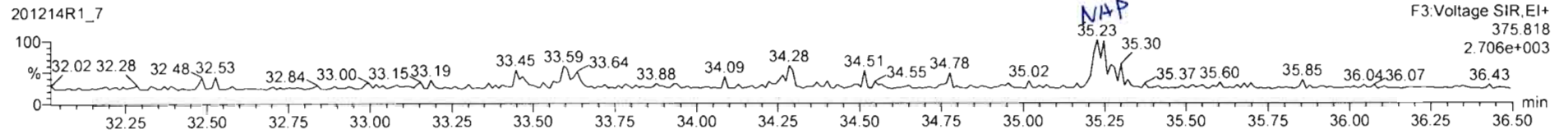
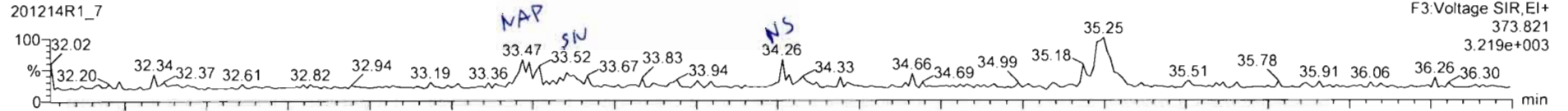


Dataset: Untitled

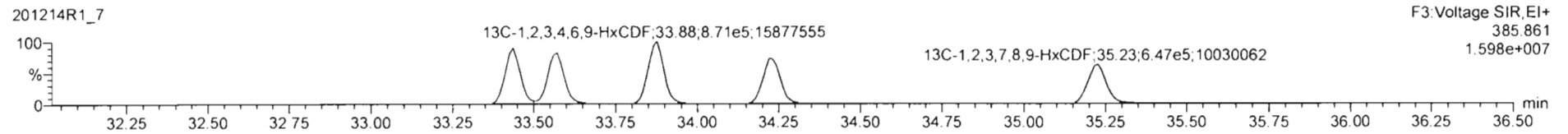
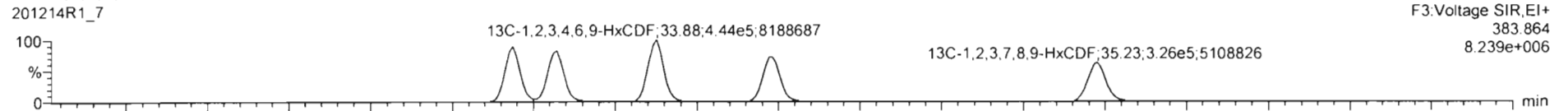
Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-BLK1 Method Blank 10, Description: Method Blank

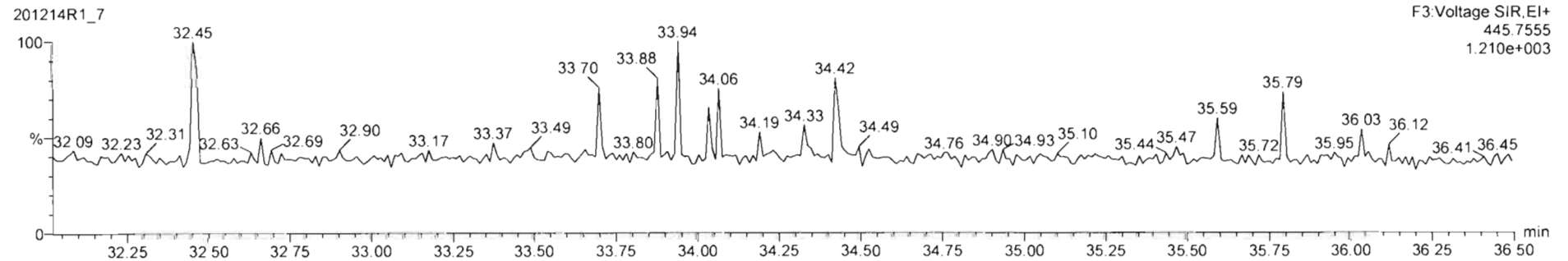
1,2,3,4,7,8-HxCDF



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



DPE3

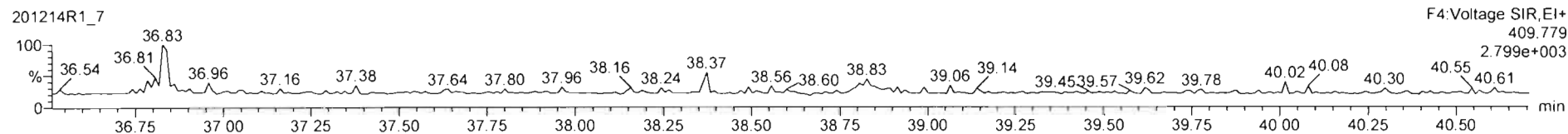
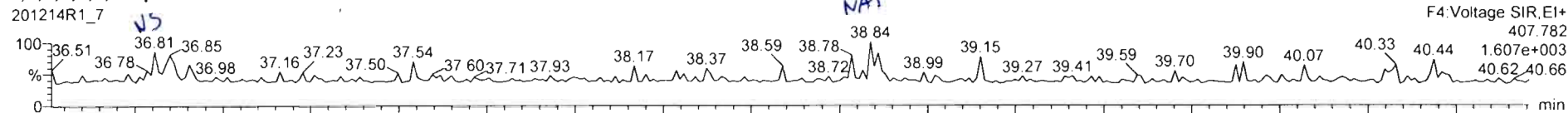


Dataset: Untitled

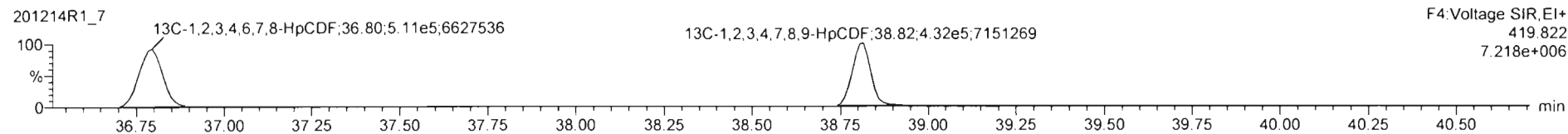
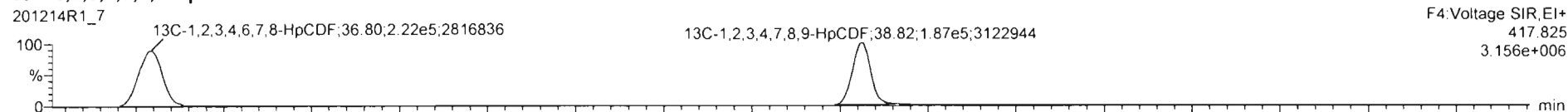
Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-BLK1 Method Blank 10, Description: Method Blank

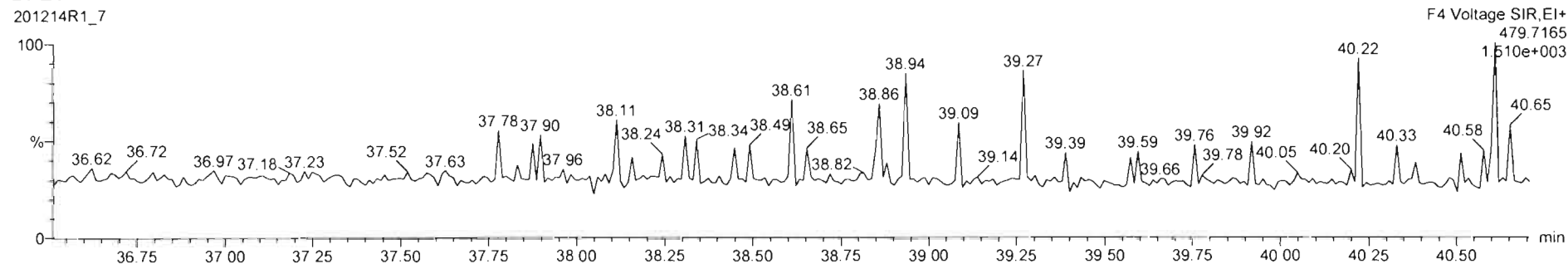
1,2,3,4,6,7,8-HpCDF



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



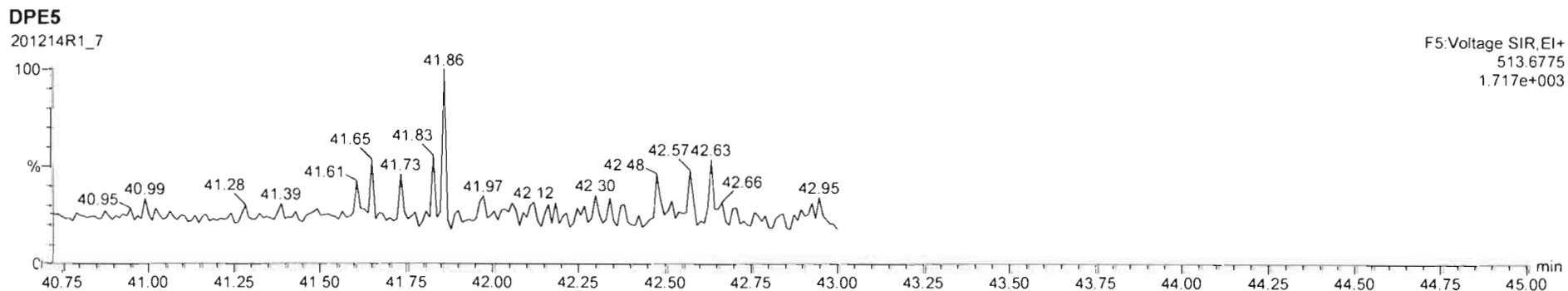
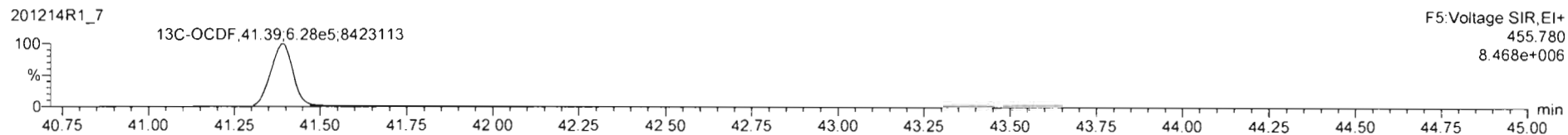
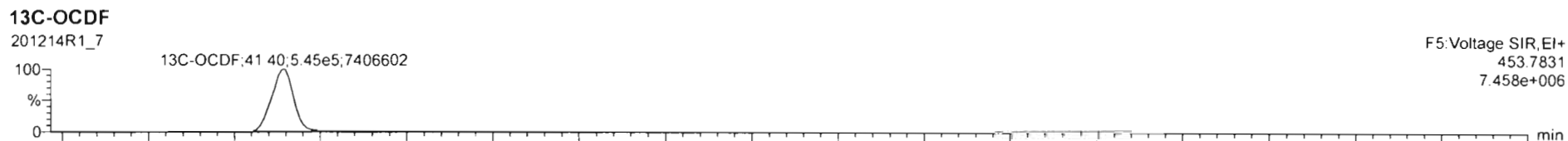
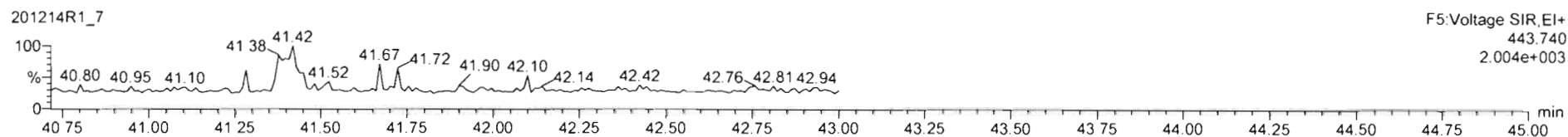
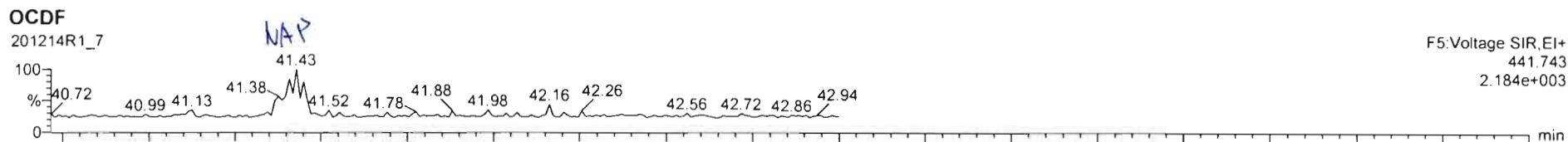
DPE4



Dataset: Untitled

Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

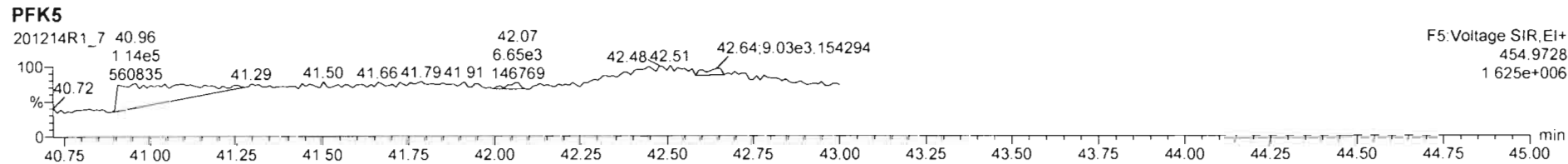
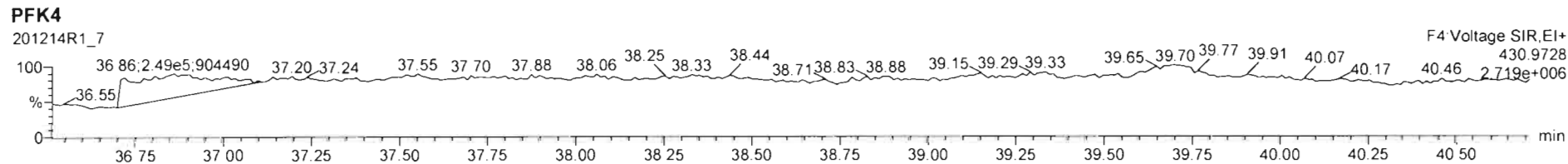
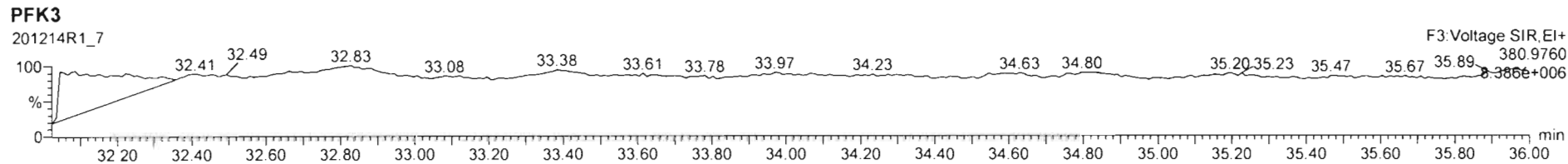
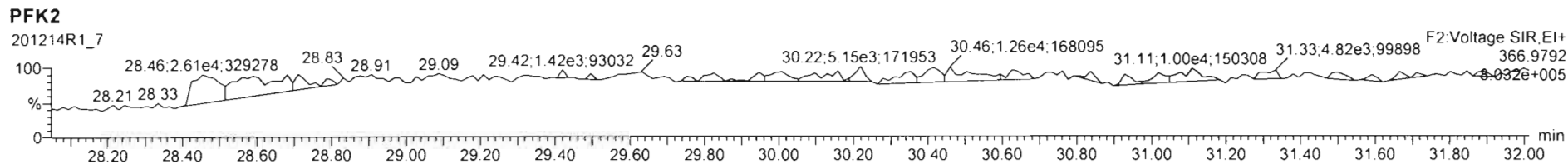
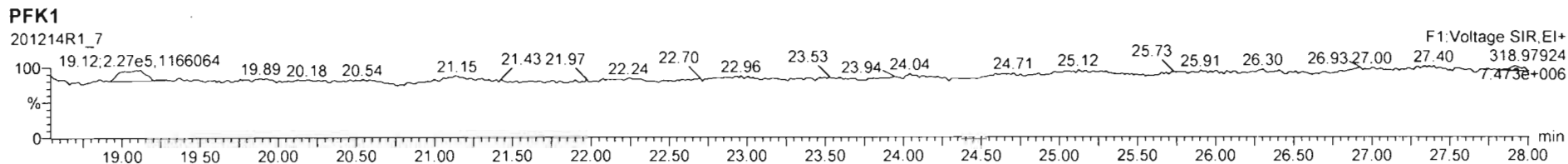
Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-BLK1 Method Blank 10, Description: Method Blank



Dataset: Untitled

Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_7, Date: 14-Dec-2020, Time: 15:22:36, ID: B0L0040-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_5.qld

Last Altered: Wednesday, December 16, 2020 10:55:27 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 11:10:47 AM Pacific Standard Time

HN 12/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

*Mk
12/16/20*

Name: 201214R1_5, Date: 14-Dec-2020, Time: 13:49:10, ID: B0L0040-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	1.44e5	0.76	NO	0.980	10.000	26.366	26.36	1.001	1.001	20.283		0.0352	20.3
2	2 1,2,3,7,8-PeCDD	5.98e5	0.62	NO	0.932	10.000	31.064	31.05	1.001	1.000	103.88		0.0835	104
3	3 1,2,3,4,7,8-HxCDD	4.71e5	1.25	NO	1.02	10.000	34.347	34.34	1.001	1.000	102.77		0.121	103
4	4 1,2,3,6,7,8-HxCDD	4.72e5	1.23	NO	0.902	10.000	34.463	34.46	1.001	1.001	100.92		0.131	101
5	5 1,2,3,7,8,9-HxCDD	4.68e5	1.23	NO	0.954	10.000	34.724	34.72	1.000	1.000	99.680		0.131	99.7
6	6 1,2,3,4,6,7,8-HpCDD	3.39e5	1.02	NO	0.918	10.000	38.190	38.19	1.000	1.000	96.863		0.341	96.9
7	7 OCDD	4.75e5	0.88	NO	0.866	10.000	41.092	41.10	1.000	1.000	204.90		0.328	205
8	8 2,3,7,8-TCDF	1.58e5	0.73	NO	0.848	10.000	25.657	25.67	1.000	1.001	18.156		0.0261	18.2
9	9 1,2,3,7,8-PeCDF	8.98e5	1.56	NO	0.960	10.000	29.770	29.78	1.000	1.001	99.572		0.120	99.6
10	10 2,3,4,7,8-PeCDF	9.45e5	1.53	NO	1.07	10.000	30.859	30.85	1.001	1.000	101.03		0.106	101
11	11 1,2,3,4,7,8-HxCDF	5.57e5	1.22	NO	0.986	10.000	33.426	33.44	1.000	1.001	95.597		0.158	95.6
12	12 1,2,3,6,7,8-HxCDF	5.88e5	1.20	NO	1.04	10.000	33.571	33.56	1.001	1.000	95.693		0.148	95.7
13	13 2,3,4,6,7,8-HxCDF	5.41e5	1.21	NO	1.02	10.000	34.232	34.23	1.001	1.001	96.906		0.175	96.9
14	14 1,2,3,7,8,9-HxCDF	4.79e5	1.22	NO	0.991	10.000	35.217	35.23	1.000	1.001	96.031		0.224	96.0
15	15 1,2,3,4,6,7,8-HpCDF	3.94e5	1.01	NO	1.05	10.000	36.803	36.80	1.000	1.000	96.394		0.339	96.4
16	16 1,2,3,4,7,8,9-HpCDF	3.61e5	1.00	NO	1.18	10.000	38.807	38.81	1.000	1.000	95.991		0.277	96.0
17	17 OCDF	5.34e5	0.87	NO	0.896	10.000	41.386	41.39	1.000	1.000	194.33		0.291	194
18	18 13C-2,3,7,8-TCDD	1.45e6	0.78	NO	1.06	10.000	26.353	26.33	1.030	1.029	195.39	97.7	0.104	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.64	NO	0.785	10.000	31.192	31.03	1.219	1.213	224.12	112	0.220	
20	20 13C-1,2,3,4,7,8-HxCDD	8.98e5	1.28	NO	0.621	10.000	34.315	34.33	1.014	1.014	214.49	107	0.364	
21	21 13C-1,2,3,6,7,8-HxCDD	1.04e6	1.27	NO	0.734	10.000	34.437	34.44	1.017	1.017	209.02	105	0.308	
22	22 13C-1,2,3,7,8,9-HxCDD	9.85e5	1.26	NO	0.723	10.000	34.722	34.71	1.026	1.025	201.88	101	0.313	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.63e5	1.04	NO	0.568	10.000	38.219	38.18	1.129	1.128	199.20	99.6	0.672	
24	24 13C-OCDD	1.07e6	0.89	NO	0.496	10.000	41.154	41.08	1.216	1.214	319.86	80.0	0.560	
25	25 13C-2,3,7,8-TCDF	2.05e6	0.77	NO	0.919	10.000	25.652	25.65	1.003	1.003	200.74	100	0.147	
26	26 13C-1,2,3,7,8-PeCDF	1.88e6	1.61	NO	0.715	10.000	29.903	29.77	1.169	1.164	236.48	118	0.335	
27	27 13C-2,3,4,7,8-PeCDF	1.75e6	1.60	NO	0.689	10.000	30.990	30.84	1.212	1.206	229.08	115	0.347	
28	28 13C-1,2,3,4,7,8-HxCDF	1.18e6	0.50	NO	0.873	10.000	33.422	33.42	0.987	0.987	200.64	100	0.363	
29	29 13C-1,2,3,6,7,8-HxCDF	1.18e6	0.50	NO	0.933	10.000	33.550	33.55	0.991	0.991	187.64	93.8	0.339	
30	30 13C-2,3,4,6,7,8-HxCDF	1.09e6	0.51	NO	0.843	10.000	34.217	34.21	1.011	1.011	192.23	96.1	0.376	
31	31 13C-1,2,3,7,8,9-HxCDF	1.01e6	0.51	NO	0.780	10.000	35.216	35.21	1.040	1.040	191.15	95.6	0.406	

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_5.qld

Last Altered: Wednesday, December 16, 2020 10:55:27 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 11:10:47 AM Pacific Standard Time

Name: 201214R1_5, Date: 14-Dec-2020, Time: 13:49:10, ID: B0L0040-BS1 OPR 10, Description: OPR

	# 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	7.78e5	0.43	NO	0.726	10.000	36.790	36.78	1.087	1.087	158.77	79.4	0.394	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.40e5	0.43	NO	0.491	10.000	38.798	38.79	1.146	1.146	193.07	96.5	0.582	
34	34 13C-OCDF	1.23e6	0.90	NO	0.565	10.000	41.371	41.38	1.222	1.222	321.52	80.4	0.319	
35	35 37Cl-2,3,7,8-TCDD	6.73e5			1.22	10.000	26.347	26.36	1.030	1.031	78.632	98.3	0.0129	
36	36 13C-1,2,3,4-TCDD	1.41e6	0.79	NO	1.00	10.000	25.640	25.58	1.000	1.000	200.00	100	0.109	
37	37 13C-1,2,3,4-TCDF	2.22e6	0.79	NO	1.00	10.000	24.130	24.07	1.000	1.000	200.00	100	0.135	
38	38 13C-1,2,3,4,6,9-HxCDF	1.35e6	0.51	NO	1.00	10.000	33.920	33.85	1.000	1.000	200.00	100	0.317	

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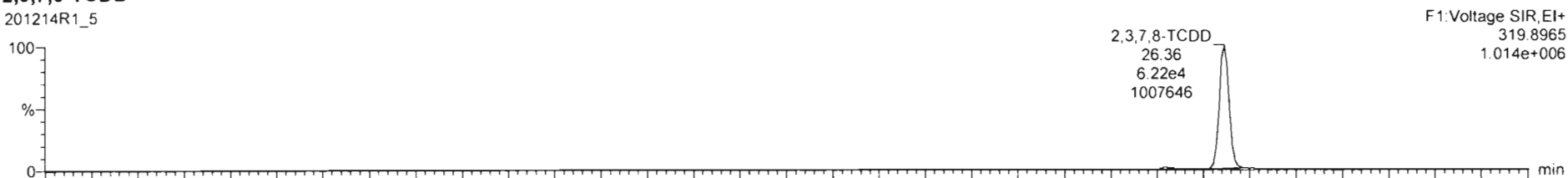
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Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

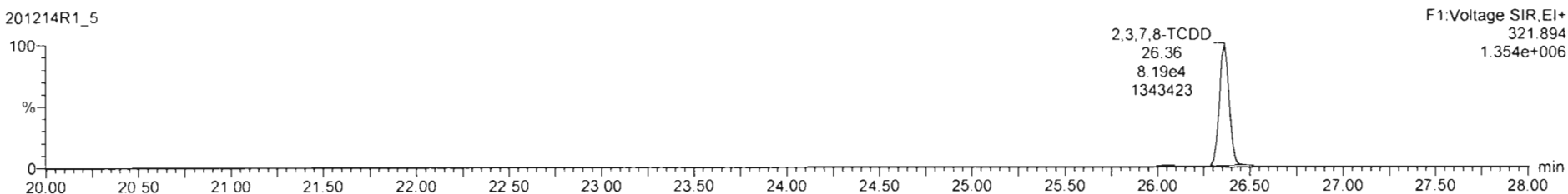
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2,3,7,8-TCDD

201214R1_5

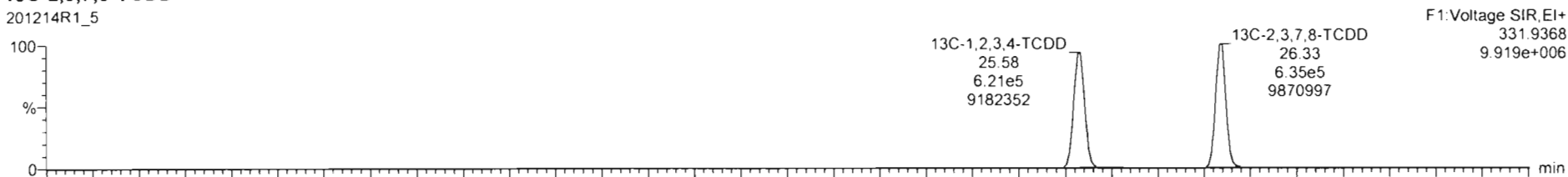


201214R1_5

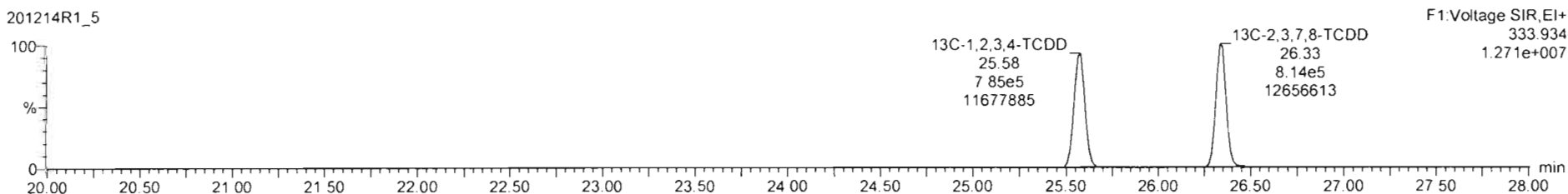


13C-2,3,7,8-TCDD

201214R1_5



201214R1_5

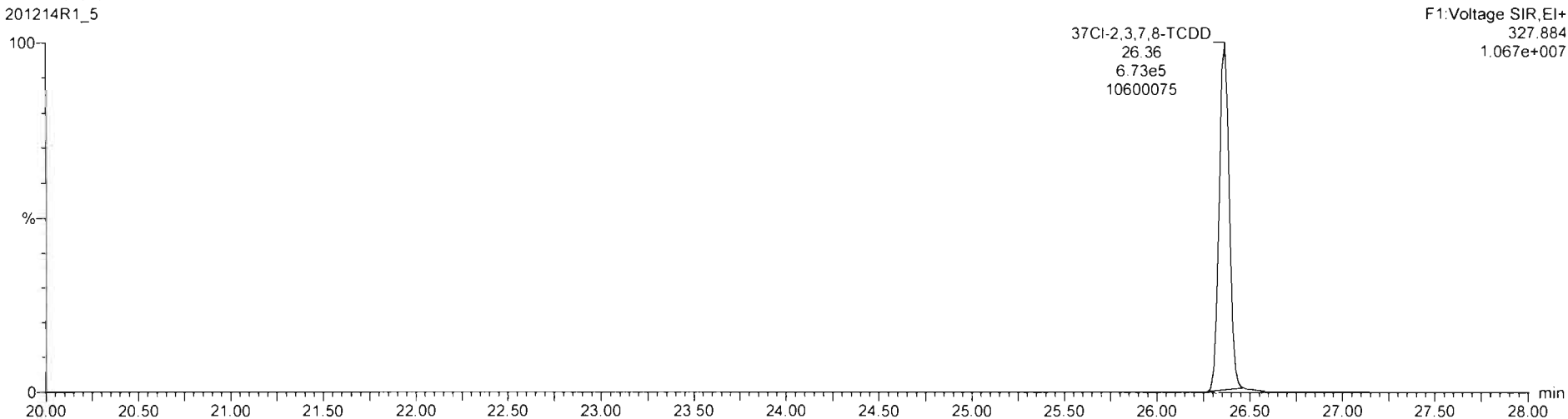


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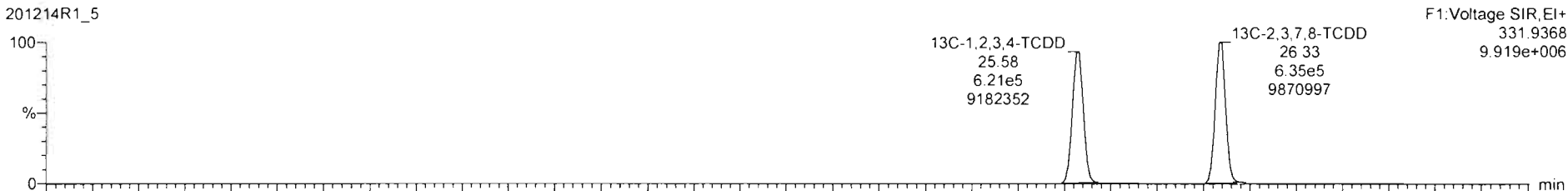
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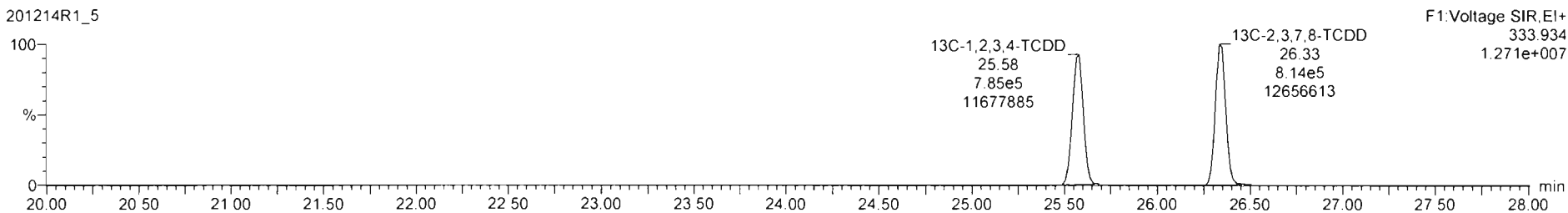
37Cl-2,3,7,8-TCDD
201214R1_5



13C-1,2,3,4-TCDD
201214R1_5



201214R1_5



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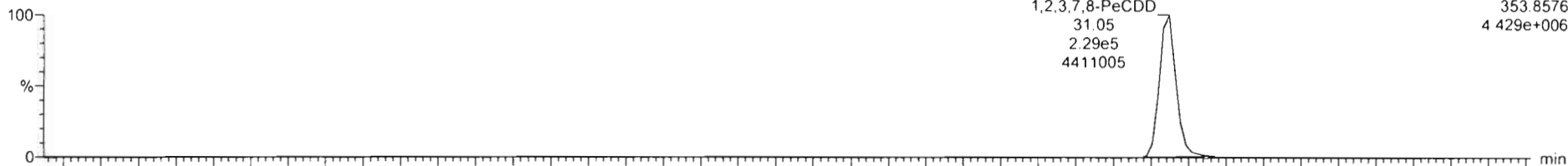
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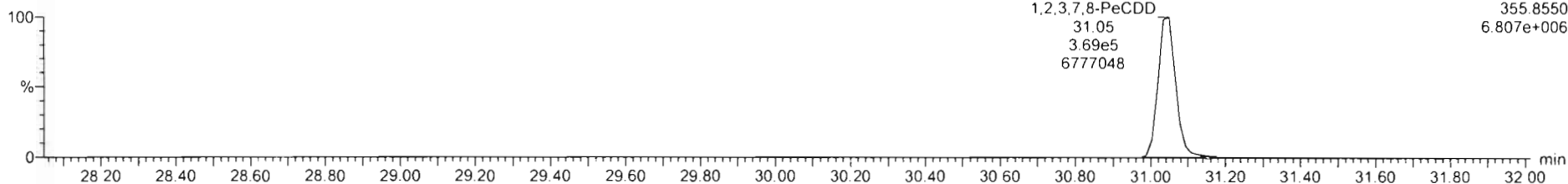
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1,2,3,7,8-PeCDD

201214R1_5



201214R1_5

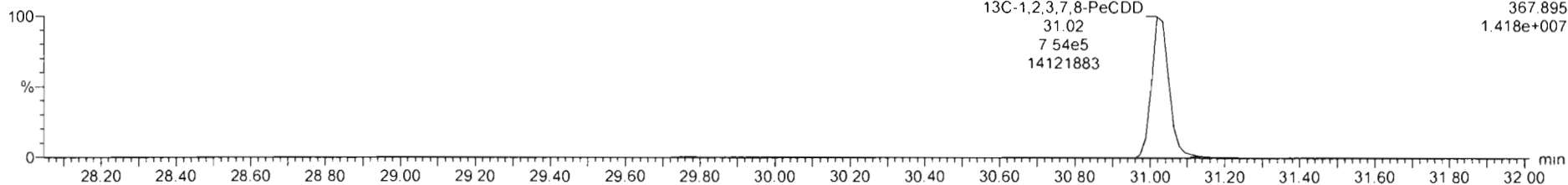


13C-1,2,3,7,8-PeCDD

201214R1_5



201214R1_5



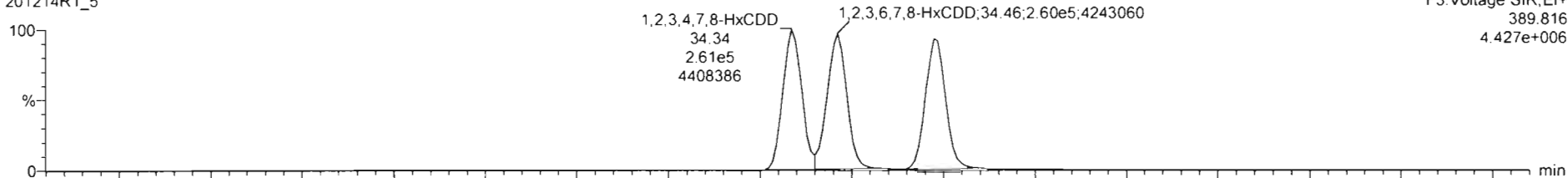
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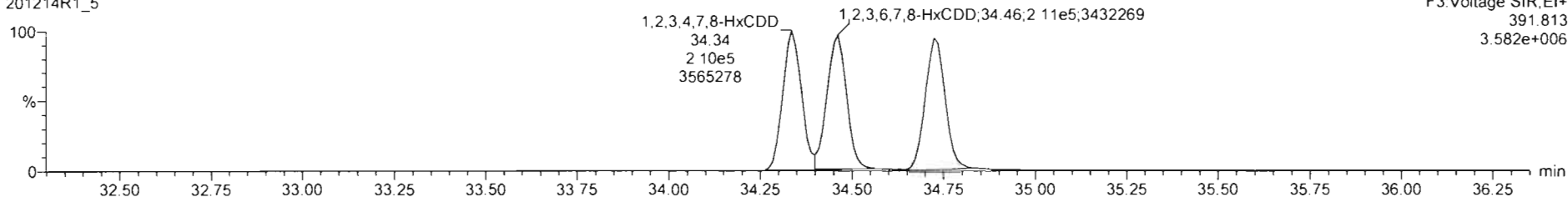
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1,2,3,4,7,8-HxCDD

201214R1_5

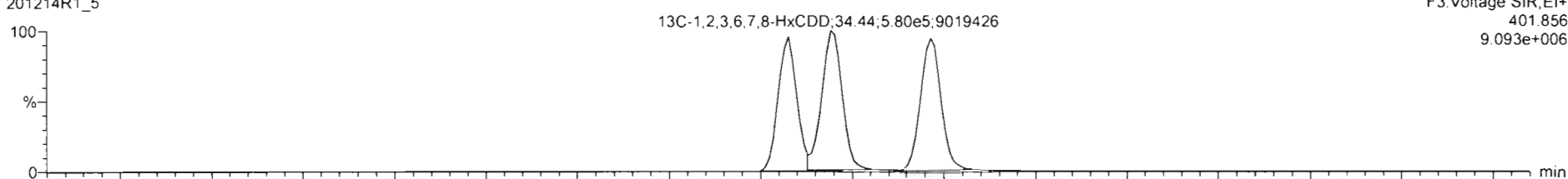


201214R1_5

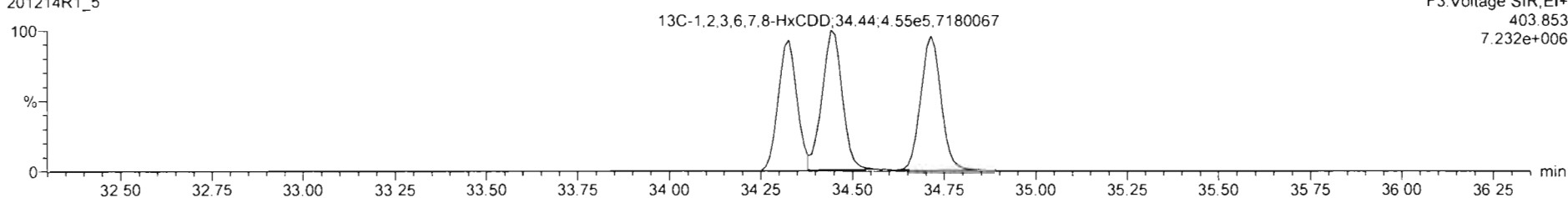


13C-1,2,3,4,7,8-HxCDD

201214R1_5



201214R1_5



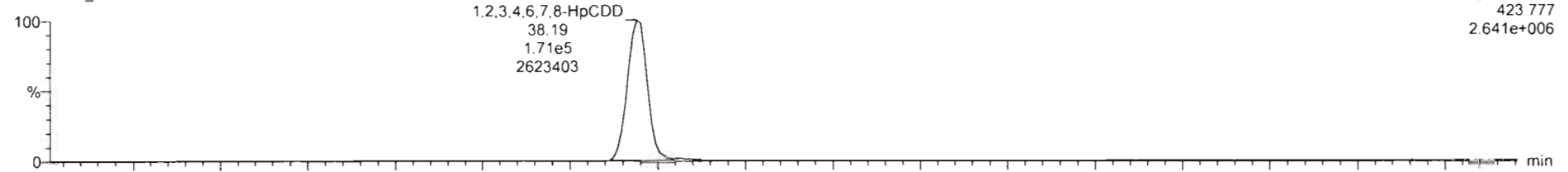
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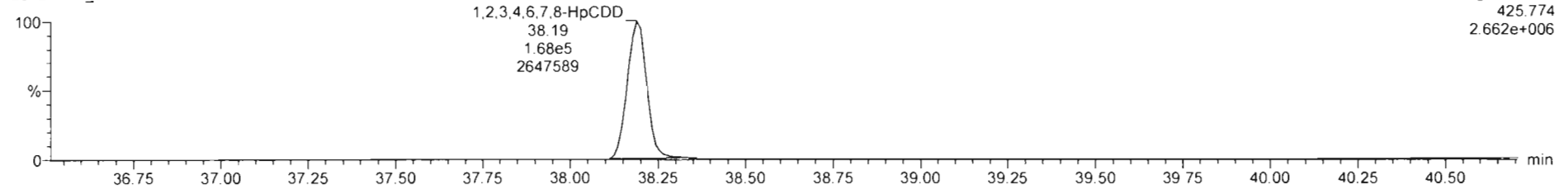
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1,2,3,4,6,7,8-HpCDD

201214R1_5

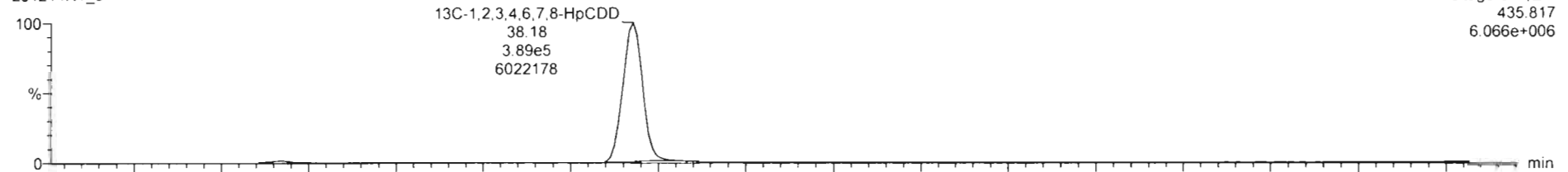


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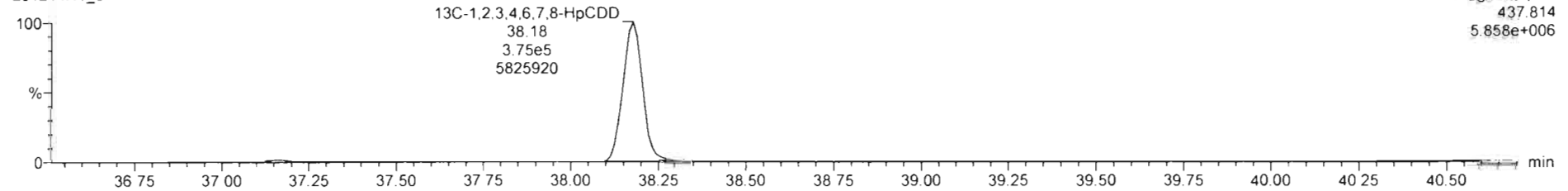


13C-1,2,3,4,6,7,8-HpCDD

201214R1_5



201214R1_5

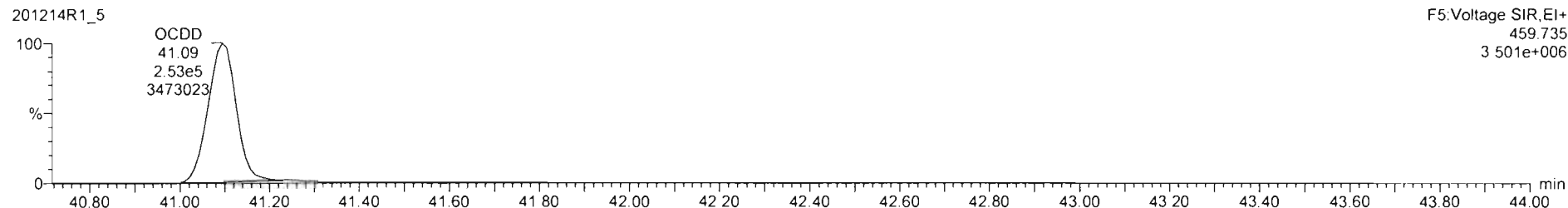
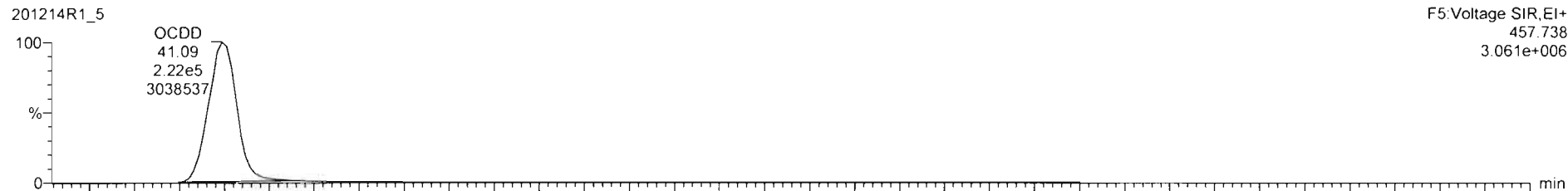


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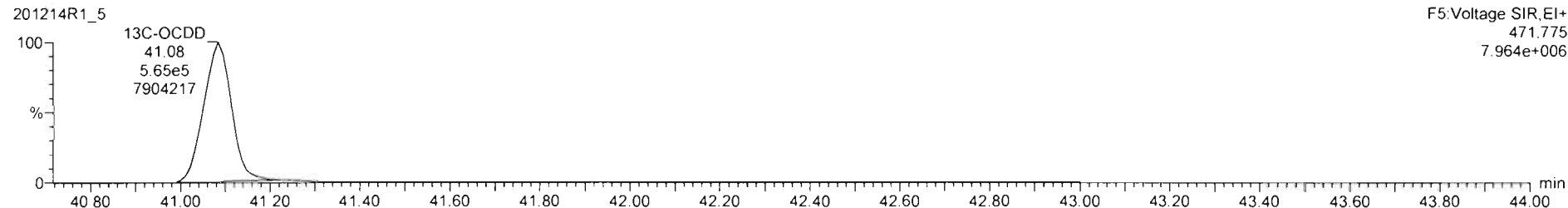
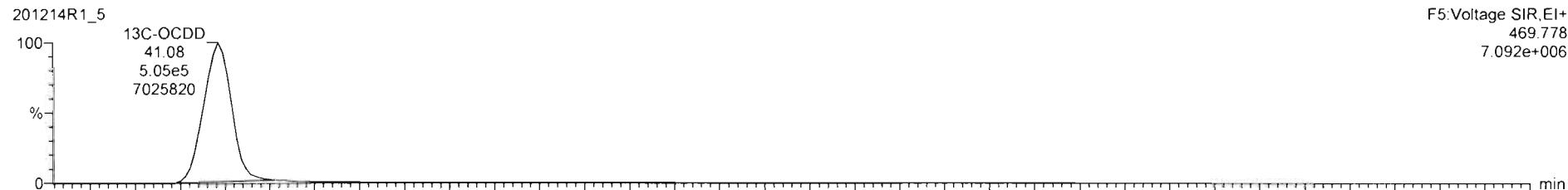
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OCDD



13C-OCDD



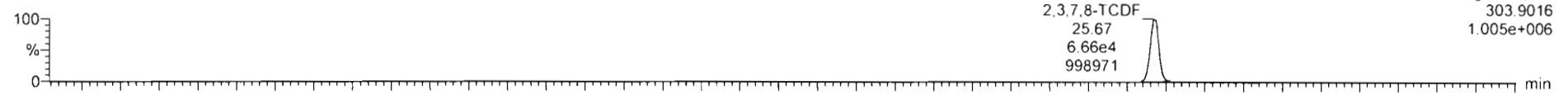
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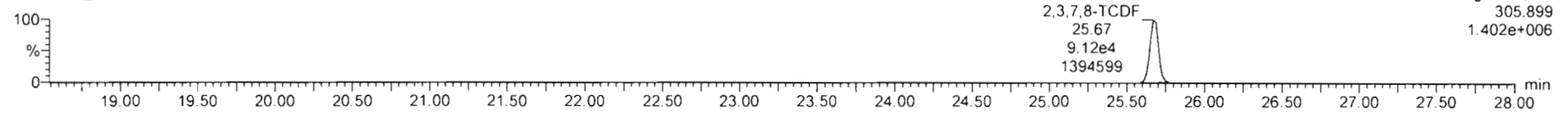
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2,3,7,8-TCDF

201214R1_5

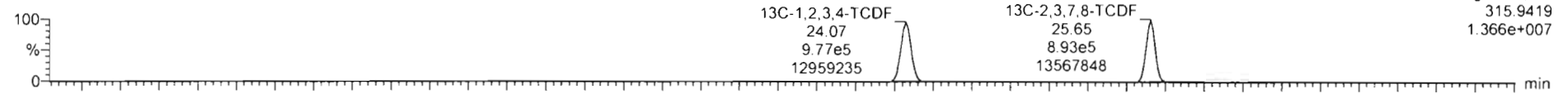


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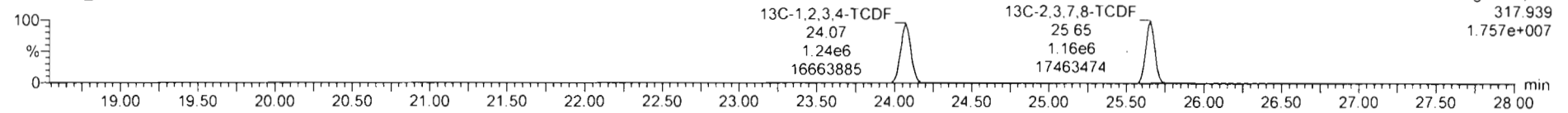


13C-2,3,7,8-TCDF

201214R1_5

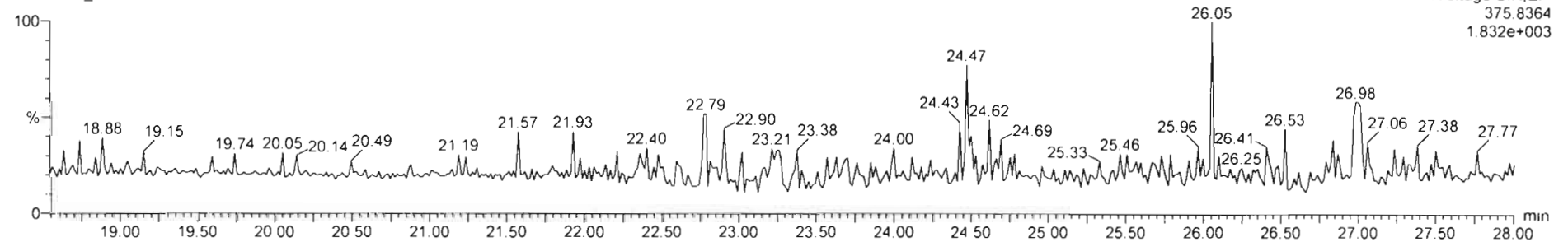


201214R1_5



DPE1

201214R1_5



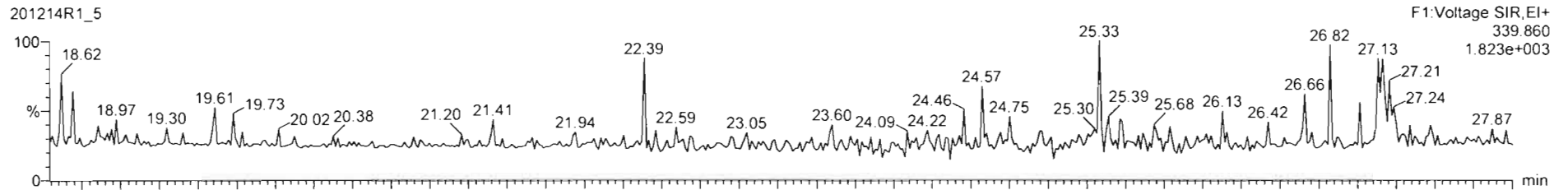
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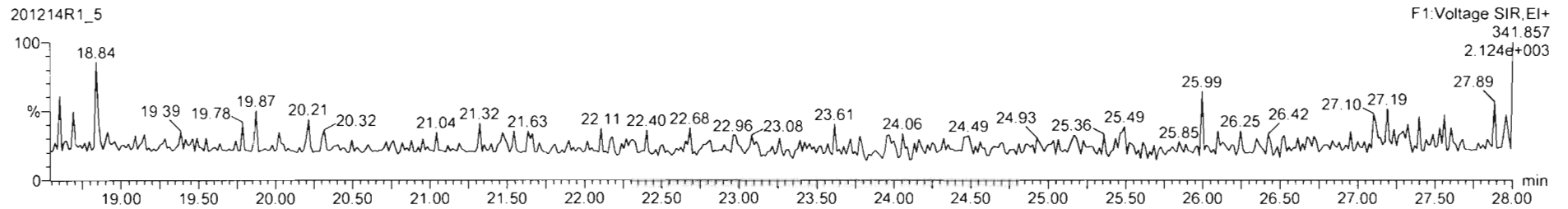
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201214R1_5

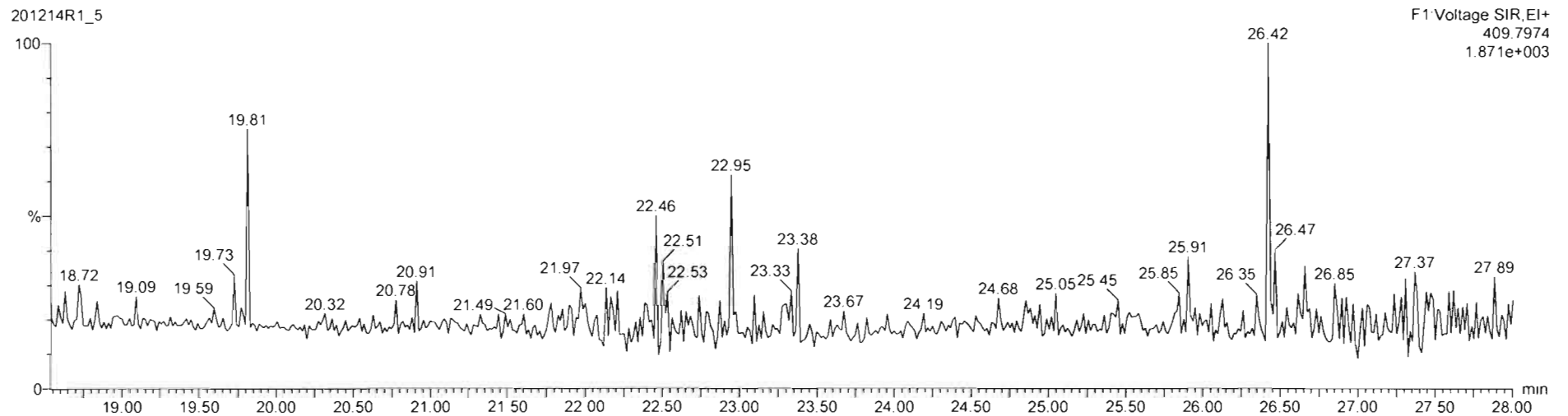


201214R1_5



DPE6

201214R1_5

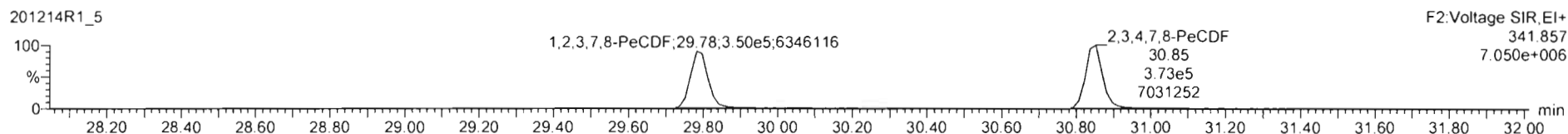
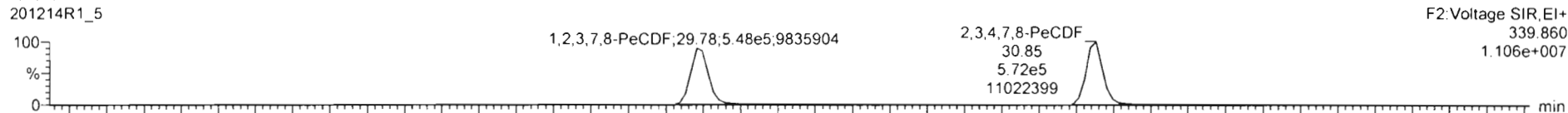


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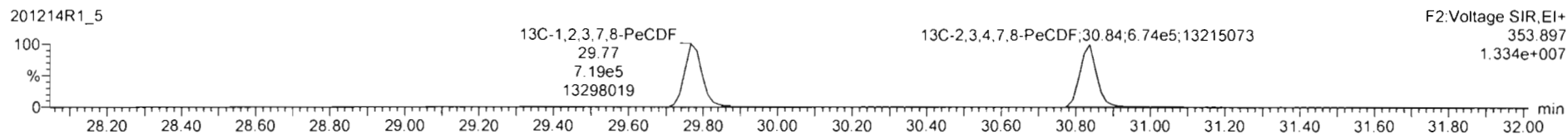
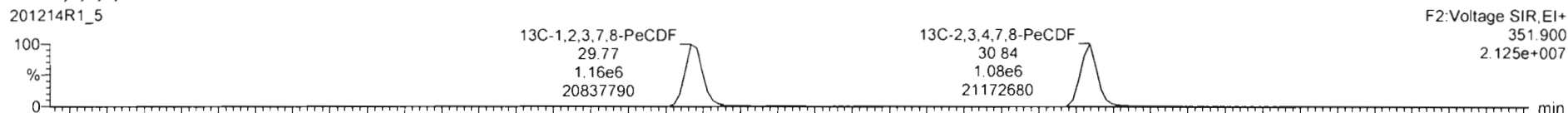
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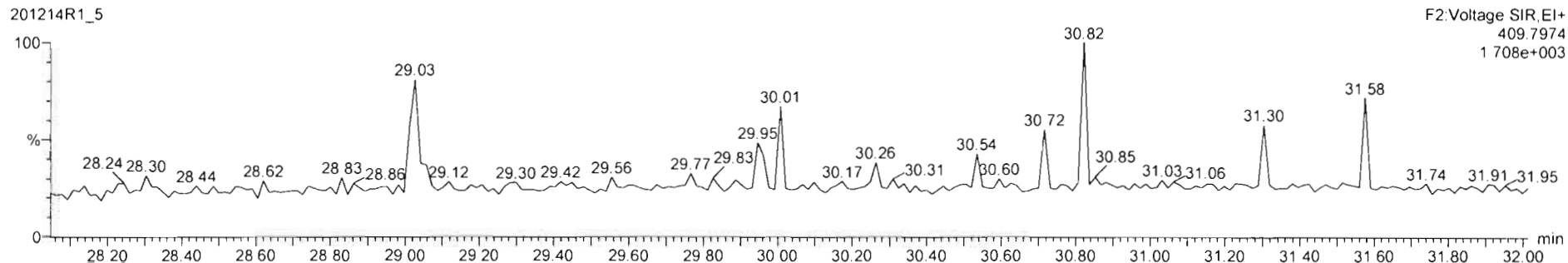
1,2,3,7,8-PeCDF



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



DPE2

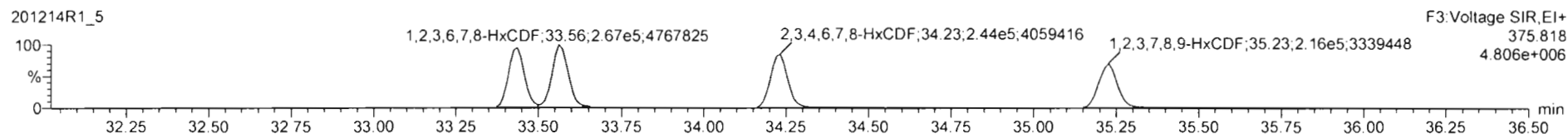
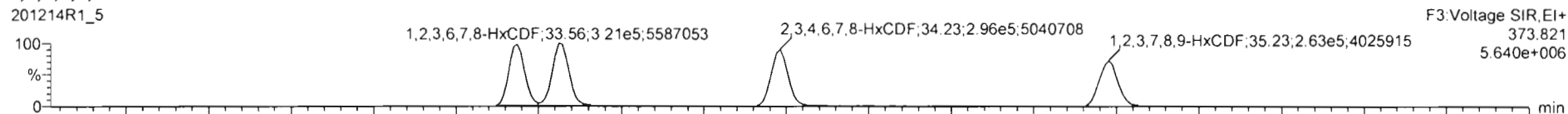


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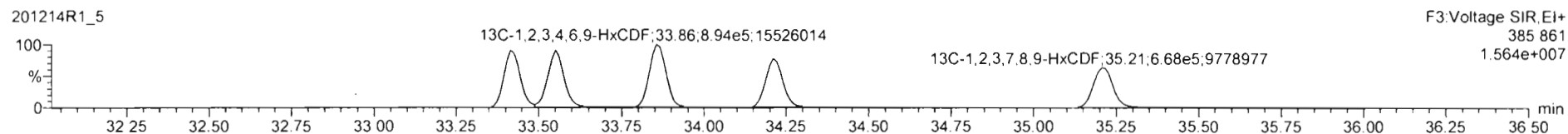
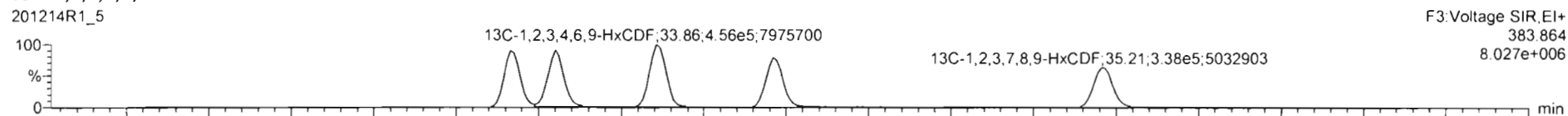
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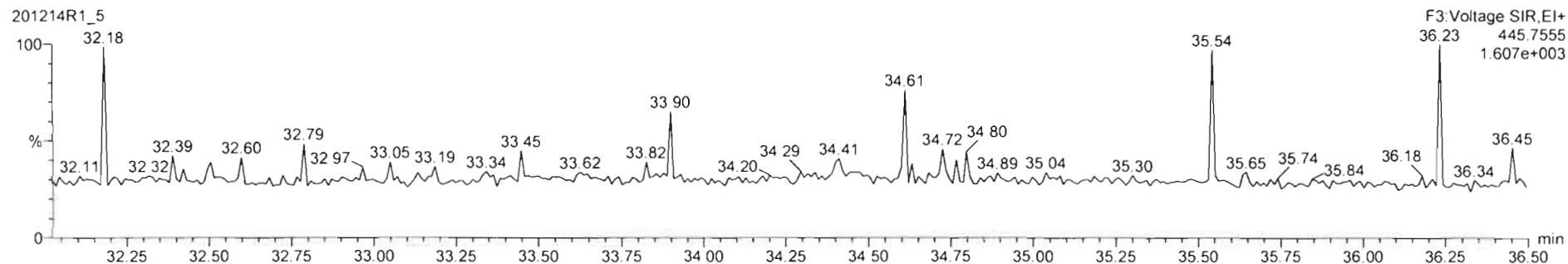
1,2,3,4,7,8-HxCDF



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



DPE3



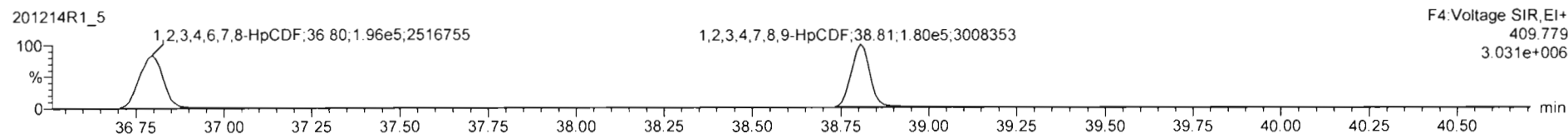
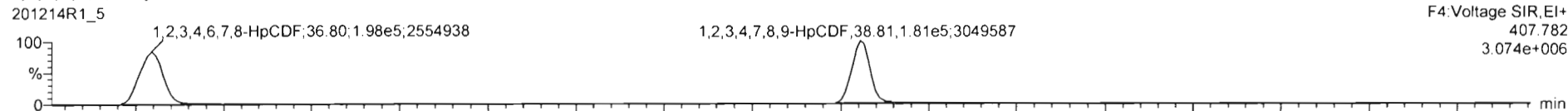
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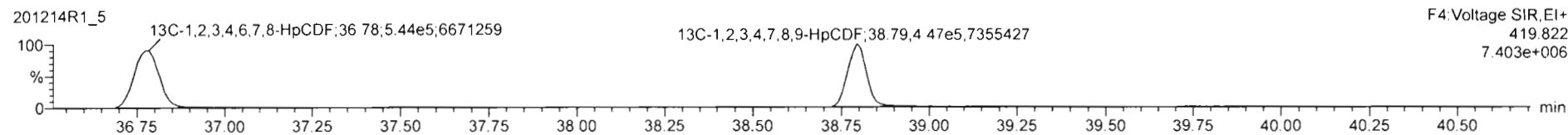
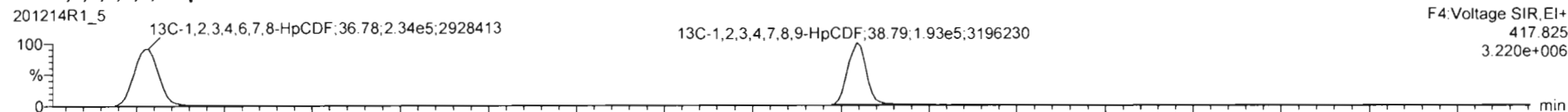
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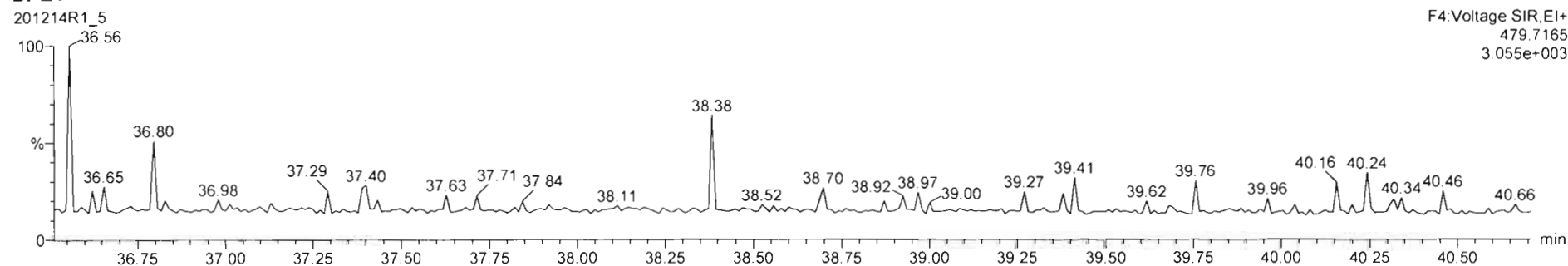
1,2,3,4,6,7,8-HpCDF



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



DPE4



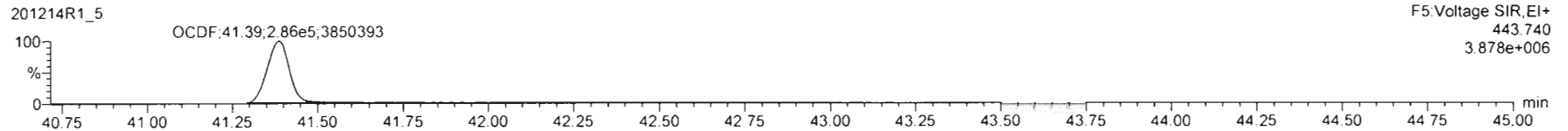
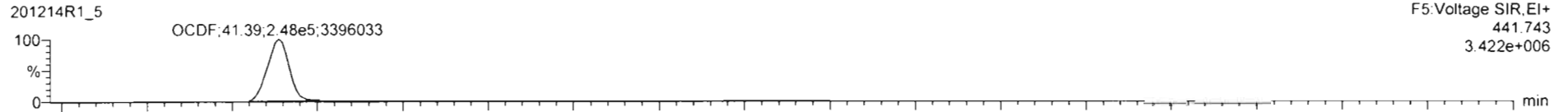
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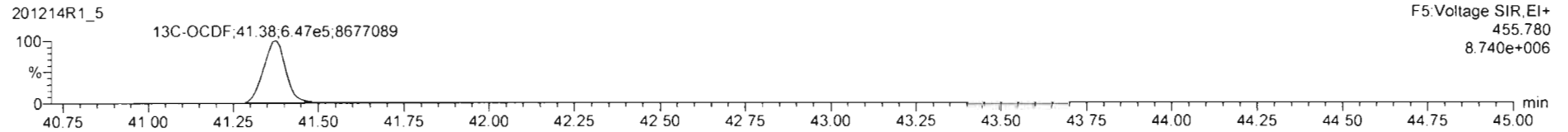
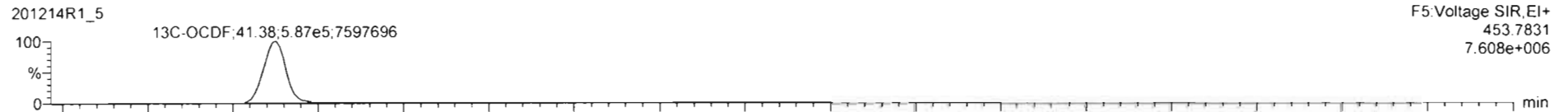
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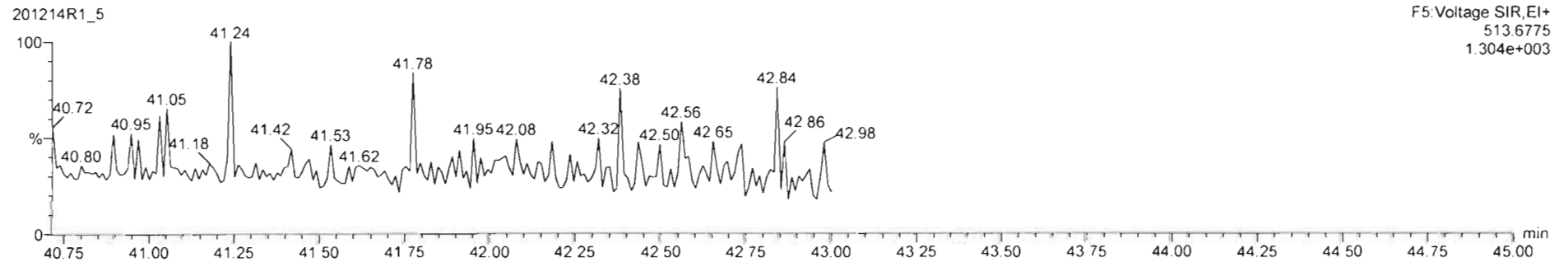
OCDF



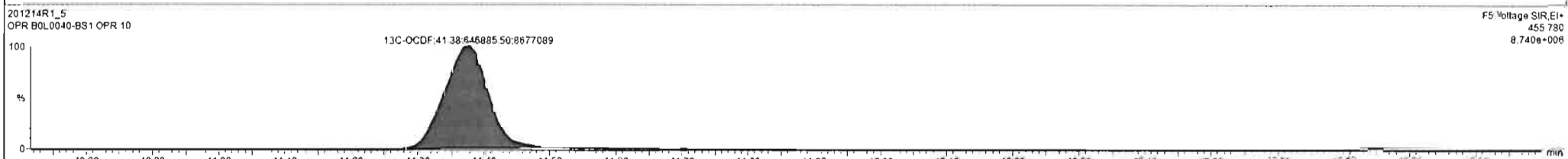
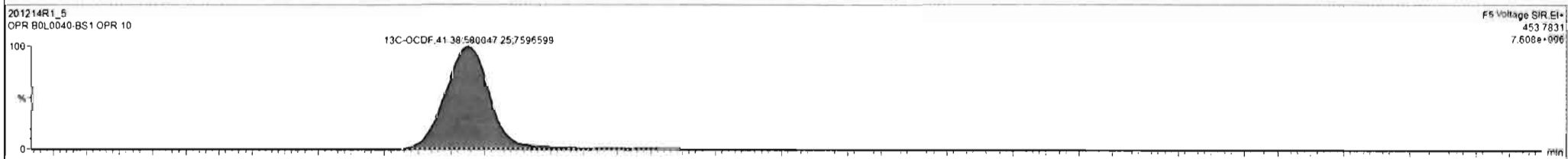
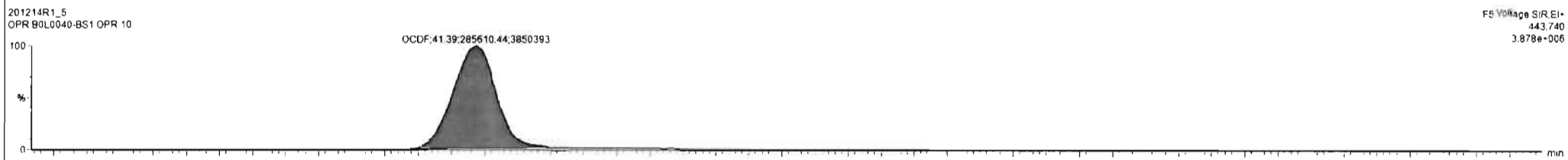
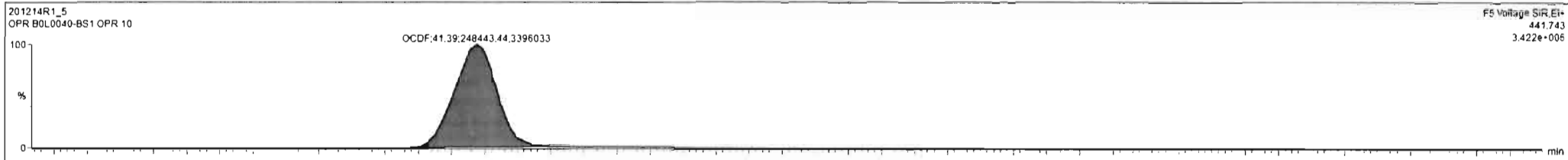
13C-OCDF



DPE5



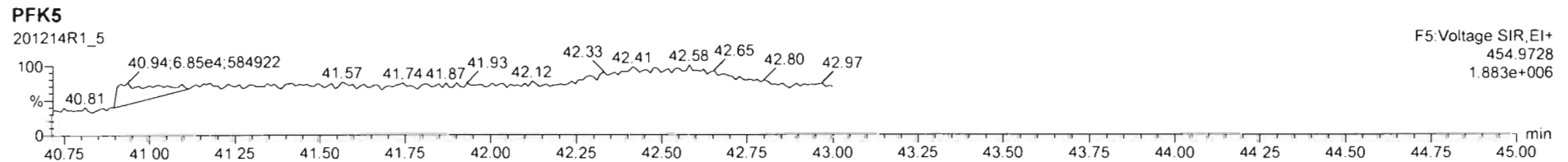
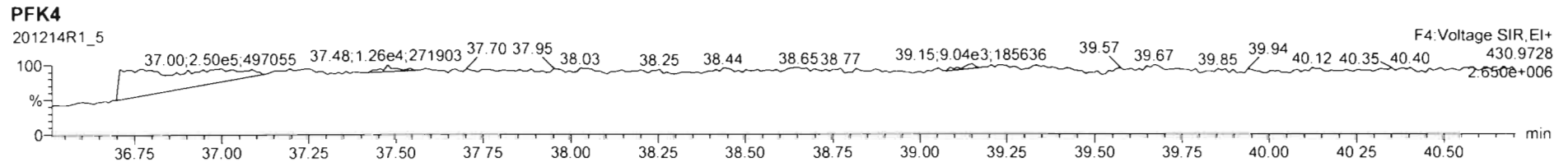
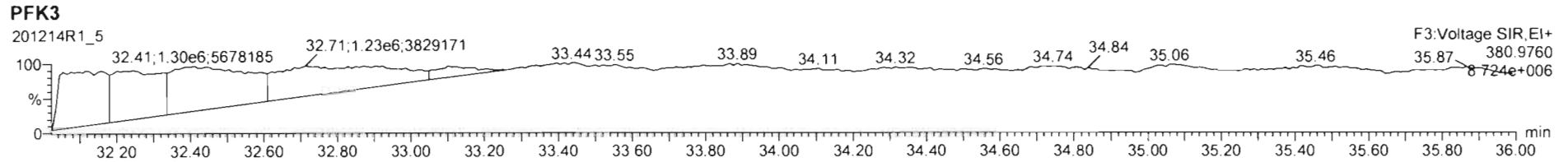
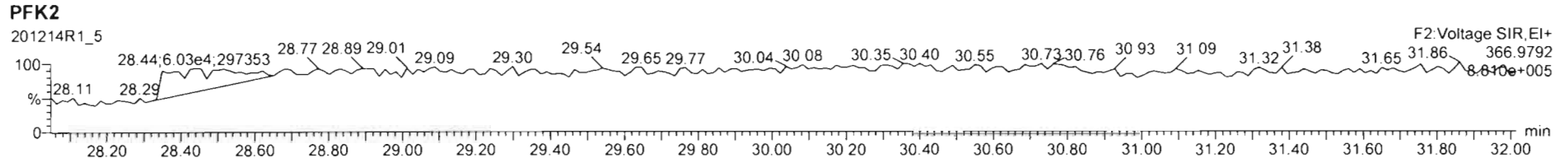
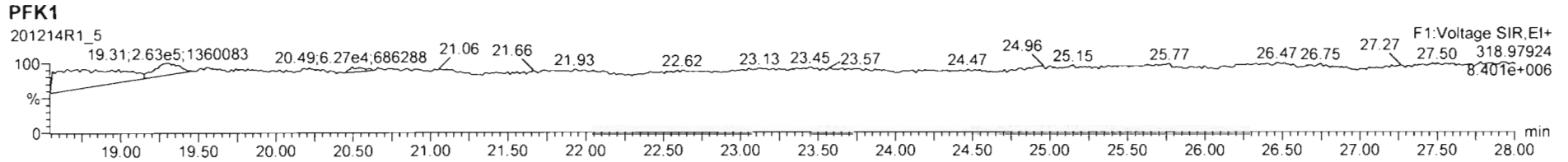
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14	1,2,3,7,8,9-HxCDF	4.79e5	1.22	NO	0.9909	10.000	35.23	1.001	96.0	0.224	96.0
15	1,2,3,4,8,7,8-HpCDF	3.94e5	1.01	NO	1.0492	10.000	36.80	1.000	96.4	0.339	96.4
16	1,2,3,4,7,6,9-HpCDF	3.61e5	1.00	NO	1.1759	10.000	38.81	1.000	96.0	0.277	96.0
17	OCDF	5.54e5	0.87	NO	0.8960	10.000	41.39	1.000	194	0.291	194



Dataset: Untitled

Last Altered: Tuesday, December 15, 2020 6:59:17 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 7:04:33 AM Pacific Standard Time

Name: 201214R1_5, Date: 14-Dec-2020, Time: 13:49:10, ID: B0L0040-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\201215R2\201215R2_10.qld

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Printed: Wednesday, December 16, 2020 2:50:57 PM Pacific Standard Time

HN 12/16/2020

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Handwritten signature
12/16/2020

Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

#	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	1.29e3	0.32	YES	0.980	10.366	26.381	26.36	1.001	1.001	0.17889		0.0341	0.0990
2	2 1,2,3,7,8-PeCDD	8.21e2	0.94	YES	0.932	10.366	31.064	31.06	1.001	1.001	0.13926		0.0371	0.116
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.366	34.358		1.001				0.0800	
4	4 1,2,3,6,7,8-HxCDD	4.10e3	1.30	NO	0.902	10.366	34.483	34.47	1.001	1.000	0.85219		0.0816	0.852
5	5 1,2,3,7,8,9-HxCDD	1.96e3	1.16	NO	0.954	10.366	34.734	34.76	1.000	1.001	0.40349		0.0807	0.403
6	6 1,2,3,4,6,7,8-HpCDD	7.13e4	1.00	NO	0.918	10.366	38.211	38.22	1.000	1.001	18.620		0.325	18.6
7	7 OCDD	8.67e5	0.87	NO	0.866	10.366	41.134	41.14	1.000	1.000	321.84		0.347	322
8	8 2,3,7,8-TCDF	2.66e4	0.70	NO	0.848	10.366	25.657	25.68	1.000	1.001	3.3250		0.0431	3.33
9	9 1,2,3,7,8-PeCDF	4.12e4	1.57	NO	0.960	10.366	29.785	29.80	1.000	1.001	5.0701		0.0454	5.07
10	10 2,3,4,7,8-PeCDF	2.67e4	1.51	NO	1.07	10.366	30.859	30.85	1.001	1.000	3.1116		0.0419	3.11
11	11 1,2,3,4,7,8-HxCDF	4.75e4	1.23	NO	0.986	10.366	33.446	33.45	1.000	1.000	8.7271		0.0566	8.73
12	12 1,2,3,6,7,8-HxCDF	1.33e4	1.16	NO	1.04	10.366	33.582	33.58	1.001	1.001	2.3388		0.0580	2.34
13	13 2,3,4,6,7,8-HxCDF	4.29e3	1.28	NO	1.02	10.366	34.243	34.25	1.001	1.001	0.80892		0.0647	0.809
14	14 1,2,3,7,8,9-HxCDF	1.60e3	1.12	NO	0.991	10.366	35.238	35.25	1.000	1.001	0.33398		0.0788	0.334
15	15 1,2,3,4,6,7,8-HpCDF	2.69e4	0.97	NO	1.05	10.366	36.814	36.81	1.000	1.000	6.8562		0.136	6.86
16	16 1,2,3,4,7,8,9-HpCDF	8.06e3	0.96	NO	1.18	10.366	38.839	38.84	1.000	1.000	2.1929		0.114	2.19
17	17 OCDF	4.43e4	0.86	NO	0.896	10.366	41.417	41.43	1.000	1.001	15.529		0.118	15.5
18	18 13C-2,3,7,8-TCDD	1.42e6	0.77	NO	1.06	10.366	26.353	26.35	1.030	1.030	197.60	102	0.0876	
19	19 13C-1,2,3,7,8-PeCDD	1.23e6	0.62	NO	0.785	10.366	31.192	31.03	1.219	1.213	230.33	119	0.163	
20	20 13C-1,2,3,4,7,8-HxCDD	9.17e5	1.27	NO	0.621	10.366	34.337	34.34	1.014	1.014	247.16	128	0.354	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.26	NO	0.734	10.366	34.459	34.46	1.017	1.017	234.37	121	0.300	
22	22 13C-1,2,3,7,8,9-HxCDD	9.82e5	1.23	NO	0.723	10.366	34.743	34.72	1.026	1.025	227.39	118	0.304	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.05e5	1.04	NO	0.568	10.366	38.243	38.20	1.129	1.128	237.13	123	0.752	
24	24 13C-OCDD	1.20e6	0.90	NO	0.496	10.366	41.180	41.13	1.216	1.214	405.36	105	0.521	
25	25 13C-2,3,7,8-TCDF	1.82e6	0.76	NO	0.919	10.366	25.652	25.65	1.003	1.003	211.12	109	0.156	
26	26 13C-1,2,3,7,8-PeCDF	1.63e6	1.55	NO	0.715	10.366	29.903	29.78	1.169	1.164	243.51	126	0.257	
27	27 13C-2,3,4,7,8-PeCDF	1.55e6	1.57	NO	0.689	10.366	30.990	30.84	1.212	1.206	240.61	125	0.267	
28	28 13C-1,2,3,4,7,8-HxCDF	1.06e6	0.50	NO	0.873	10.366	33.442	33.44	0.987	0.987	204.03	106	0.352	
29	29 13C-1,2,3,6,7,8-HxCDF	1.05e6	0.50	NO	0.933	10.366	33.571	33.56	0.991	0.991	188.70	97.8	0.329	
30	30 13C-2,3,4,6,7,8-HxCDF	1.00e6	0.50	NO	0.843	10.366	34.238	34.22	1.011	1.010	199.00	103	0.365	
31	31 13C-1,2,3,7,8,9-HxCDF	9.30e5	0.50	NO	0.780	10.366	35.238	35.23	1.040	1.040	199.64	103	0.394	

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Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

	# 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	7.22e5	0.43	NO	0.726	10.366	36.813	36.80	1.087	1.086	166.38	86.2	0.450	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.03e5	0.43	NO	0.491	10.366	38.822	38.83	1.146	1.146	205.37	106	0.665	
34	34 13C-OCDF	1.23e6	0.88	NO	0.565	10.366	41.396	41.41	1.222	1.222	363.74	94.3	0.467	
35	35 37Cl-2,3,7,8-TCDD	6.54e5			1.22	10.366	26.347	26.36	1.030	1.031	79.102	102	0.0226	
36	36 13C-1,2,3,4-TCDD	1.31e6	0.78	NO	1.00	10.366	25.640	25.58	1.000	1.000	192.94	100	0.0925	
37	37 13C-1,2,3,4-TCDF	1.81e6	0.77	NO	1.00	10.366	24.130	24.07	1.000	1.000	192.94	100	0.143	
38	38 13C-1,2,3,4,6,9-HxCDF	1.15e6	0.51	NO	1.00	10.366	33.920	33.88	1.000	1.000	192.94	100	0.307	
39	39 Total Tetra-Dioxins				0.980	10.366	24.620		0.000		0.39641		0.0341	0.589
40	40 Total Penta-Dioxins				0.932	10.366	29.960		0.000		0.88784		0.0371	1.31
41	41 Total Hexa-Dioxins				0.902	10.366	33.635		0.000		7.9678		0.0856	7.97
42	42 Total Hepta-Dioxins				0.918	10.366	37.640		0.000		40.772		0.325	40.8
43	43 Total Tetra-Furans				0.848	10.366	23.610		0.000		9.6361		0.0431	9.64
44	44 1st Func. Penta-Furans				0.960	10.366	26.930		0.000		1.3332		0.0105	1.33
45	45 Total Penta-Furans				0.960	10.366	29.275		0.000		14.253		0.0460	14.3
46	46 Total Hexa-Furans				1.02	10.366	33.555		0.000		18.232		0.0633	18.2
47	47 Total Hepta-Furans				1.05	10.366	37.835		0.000		17.674		0.133	17.7

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Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.55	6.072e3	7.008e3	4.380e2	5.061e2	0.87	NO	9.440e2	0.13097	0.13097	0.0341
2	Total Tetra-Dioxins	22.92	2.804e3	3.292e3	2.299e2	2.636e2	0.87	NO	4.935e2	0.068463	0.068463	0.0341
3	Total Tetra-Dioxins	23.45	3.394e3	5.372e3	3.099e2	3.677e2	0.84	NO	0.000e0	0.00000	0.094009	0.0341
4	Total Tetra-Dioxins	24.28	9.118e3	1.142e4	6.325e2	7.874e2	0.80	NO	1.420e3	0.19698	0.19698	0.0341
5	2,3,7,8-TCDD	26.36	6.162e3	1.436e4	3.104e2	9.791e2	0.32	YES	1.289e3	0.00000	0.098987	0.0341

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.80	1.398e4	2.117e4	8.989e2	1.459e3	0.62	NO	2.358e3	0.39721	0.39721	0.0371
2	Total Penta-Dioxins	29.27	8.410e3	1.051e4	4.080e2	5.856e2	0.70	NO	9.936e2	0.16736	0.16736	0.0371
3	Total Penta-Dioxins	29.98	6.701e3	7.858e3	5.404e2	7.377e2	0.73	YES	0.000e0	0.00000	0.20253	0.0371
4	Total Penta-Dioxins	30.26	8.956e3	1.718e4	5.708e2	1.059e3	0.54	NO	1.630e3	0.27459	0.27459	0.0371
5	Total Penta-Dioxins	30.58	2.437e3	4.867e3	1.177e2	1.713e2	0.69	NO	2.890e2	0.048686	0.048686	0.0371
6	1,2,3,7,8-PeCDD	31.06	8.451e3	9.382e3	3.978e2	4.231e2	0.94	YES	8.208e2	0.00000	0.11615	0.0371
7	Total Penta-Dioxins	31.09	1.971e3	3.902e3	9.409e1	1.293e2	0.73	YES	0.000e0	0.00000	0.035498	0.0371
8	Total Penta-Dioxins	31.41	2.898e3	4.657e3	1.374e2	2.547e2	0.54	NO	0.000e0	0.00000	0.066058	0.0371

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.71	1.488e5	1.260e5	7.377e3	6.020e3	1.23	NO	1.340e4	2.9360	2.9360	0.0856
2	Total Hexa-Dioxins	33.32	1.252e4	1.043e4	6.635e2	5.509e2	1.20	NO	1.214e3	0.26612	0.26612	0.0856
3	Total Hexa-Dioxins	33.60	1.267e5	1.001e5	8.573e3	6.777e3	1.27	NO	1.535e4	3.3638	3.3638	0.0856
4	Total Hexa-Dioxins	33.68	9.533e3	7.837e3	3.788e2	2.884e2	1.31	NO	6.672e2	0.14621	0.14621	0.0856
5	1,2,3,6,7,8-HxCDD	34.47	3.911e4	3.040e4	2.318e3	1.780e3	1.30	NO	4.098e3	0.85219	0.85219	0.0816
6	1,2,3,7,8,9-HxCDD	34.76	1.721e4	1.457e4	1.051e3	9.080e2	1.16	NO	1.959e3	0.40349	0.40349	0.0807

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Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.19	5.663e5	5.311e5	4.302e4	4.178e4	1.03	NO	8.480e4	22.152	22.152	0.325
2	1,2,3,4,6,7,8-HpCDD	38.22	5.722e5	5.782e5	3.567e4	3.561e4	1.00	NO	7.128e4	18.620	18.620	0.325

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.30	2.624e3	3.575e3	1.927e2	2.577e2	0.75	NO	4.504e2	0.056331	0.056331	0.0431
2	Total Tetra-Furans	20.85	4.035e3	4.129e3	3.038e2	3.632e2	0.84	NO	6.670e2	0.083427	0.083427	0.0431
3	Total Tetra-Furans	21.65	1.186e4	1.521e4	1.026e3	1.344e3	0.76	NO	2.369e3	0.29634	0.29634	0.0431
4	Total Tetra-Furans	22.14	8.105e3	8.740e3	6.481e2	7.501e2	0.86	NO	1.398e3	0.17488	0.17488	0.0431
5	Total Tetra-Furans	22.58	3.394e4	4.639e4	3.187e3	4.214e3	0.76	NO	7.401e3	0.92572	0.92572	0.0431
6	Total Tetra-Furans	23.05	1.839e4	2.408e4	1.543e3	2.023e3	0.76	NO	3.565e3	0.44594	0.44594	0.0431
7	Total Tetra-Furans	23.16	2.855e3	3.756e3	2.451e2	3.037e2	0.81	NO	5.487e2	0.068636	0.068636	0.0431
8	Total Tetra-Furans	23.42	9.191e3	1.219e4	6.758e2	8.295e2	0.81	NO	1.505e3	0.18828	0.18828	0.0431
9	Total Tetra-Furans	24.18	1.488e4	2.201e4	1.851e3	2.453e3	0.75	NO	4.305e3	0.53843	0.53843	0.0431
10	Total Tetra-Furans	24.66	1.333e5	1.907e5	1.043e4	1.442e4	0.72	NO	2.485e4	3.1081	3.1081	0.0431
11	Total Tetra-Furans	25.57	1.467e4	2.088e4	7.699e2	1.120e3	0.69	NO	1.890e3	0.23640	0.23640	0.0431
12	2,3,7,8-TCDF	25.68	1.675e5	2.421e5	1.094e4	1.565e4	0.70	NO	2.658e4	3.3250	3.3250	0.0431
13	Total Tetra-Furans	27.56	9.688e3	1.418e4	6.199e2	8.880e2	0.70	NO	1.508e3	0.18860	0.18860	0.0431

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	27.18	1.068e5	6.423e4	6.559e3	4.004e3	1.64	NO	1.056e4	1.3332	1.3332	0.0105

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Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.65	1.084e4	8.031e3	5.981e2	4.148e2	1.44	NO	1.013e3	0.12785	0.12785	0.0460
2	Total Penta-Furans	28.80	2.613e5	1.520e5	1.516e4	9.585e3	1.58	NO	2.475e4	3.1235	3.1235	0.0460
3	Total Penta-Furans	29.43	2.459e4	1.474e4	1.599e3	1.134e3	1.41	NO	2.733e3	0.34490	0.34490	0.0460
4	Total Penta-Furans	29.59	6.780e4	3.511e4	3.228e3	2.097e3	1.54	NO	5.326e3	0.67218	0.67218	0.0460
5	1,2,3,7,8-PeCDF	29.80	4.552e5	3.023e5	2.517e4	1.600e4	1.57	NO	4.117e4	5.0701	5.0701	0.0454
6	Total Penta-Furans	30.05	1.562e5	9.208e4	7.982e3	5.085e3	1.57	NO	1.307e4	1.6493	1.6493	0.0460
7	2,3,4,7,8-PeCDF	30.85	2.972e5	2.032e5	1.607e4	1.066e4	1.51	NO	2.673e4	3.1116	3.1116	0.0419
8	Total Penta-Furans	31.77	1.321e4	1.014e4	7.078e2	5.089e2	1.39	NO	1.217e3	0.15357	0.15357	0.0460

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	2.852e4	2.628e4	1.542e3	1.266e3	1.22	NO	2.808e3	0.52436	0.52436	0.0633
2	Total Hexa-Furans	32.35	1.251e5	1.010e5	6.177e3	5.054e3	1.22	NO	1.123e4	2.0976	2.0976	0.0633
3	Total Hexa-Furans	32.98	1.372e5	1.136e5	6.868e3	5.692e3	1.21	NO	1.256e4	2.3457	2.3457	0.0633
4	Total Hexa-Furans	33.32	6.430e3	5.675e3	3.366e2	2.904e2	1.16	NO	6.271e2	0.11712	0.11712	0.0633
5	1,2,3,4,7,8-HxCDF	33.45	5.077e5	4.075e5	2.615e4	2.134e4	1.23	NO	4.749e4	8.7271	8.7271	0.0566
6	1,2,3,6,7,8-HxCDF	33.58	1.221e5	1.046e5	7.113e3	6.142e3	1.16	NO	1.326e4	2.3388	2.3388	0.0580
7	2,3,4,6,7,8-HxCDF	34.25	3.786e4	3.145e4	2.408e3	1.880e3	1.28	NO	4.288e3	0.80892	0.80892	0.0647
8	1,2,3,7,8,9-HxCDF	35.25	3.866e4	2.810e4	8.434e2	7.527e2	1.12	NO	1.596e3	0.33398	0.33398	0.0788
9	Total Hexa-Furans	35.26	4.943e4	4.920e4	2.691e3	2.334e3	1.15	NO	5.026e3	0.93857	0.93857	0.0633

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	36.81	1.870e5	1.872e5	1.327e4	1.366e4	0.97	NO	2.693e4	6.8562	6.8562	0.136
2	Total Hepta-Furans	37.30	5.142e3	4.452e3	2.620e2	2.400e2	1.09	NO	5.020e2	0.13933	0.13933	0.133
3	Total Hepta-Furans	37.53	2.123e5	2.165e5	1.518e4	1.539e4	0.99	NO	3.057e4	8.4858	8.4858	0.133
4	1,2,3,4,7,8,9-HpCDF	38.84	6.567e4	7.342e4	3.940e3	4.116e3	0.96	NO	8.055e3	2.1929	2.1929	0.114

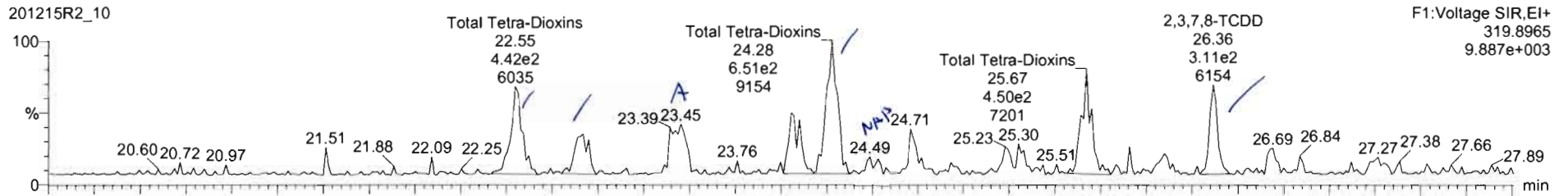
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

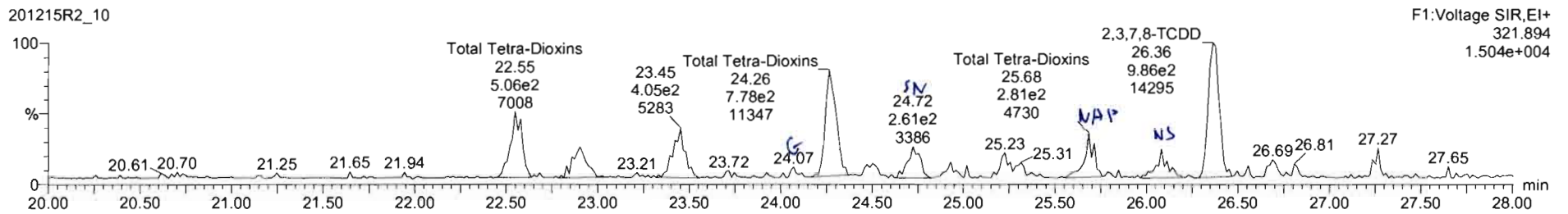
2,3,7,8-TCDD

201215R2_10



F1:Voltage SIR,EI+
319.8965
9.887e+003

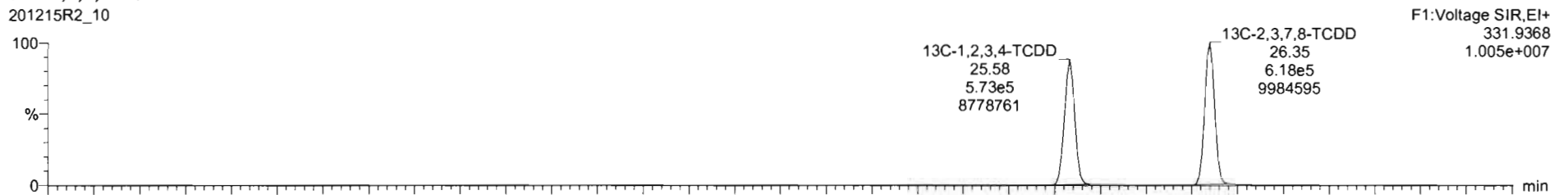
201215R2_10



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1.504e+004

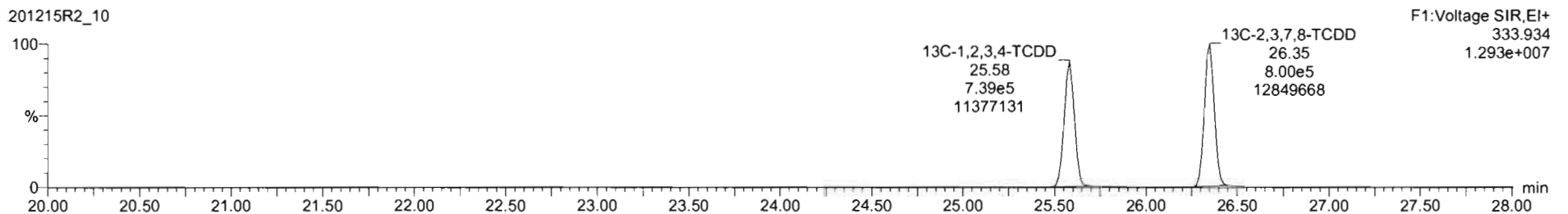
13C-2,3,7,8-TCDD

201215R2_10



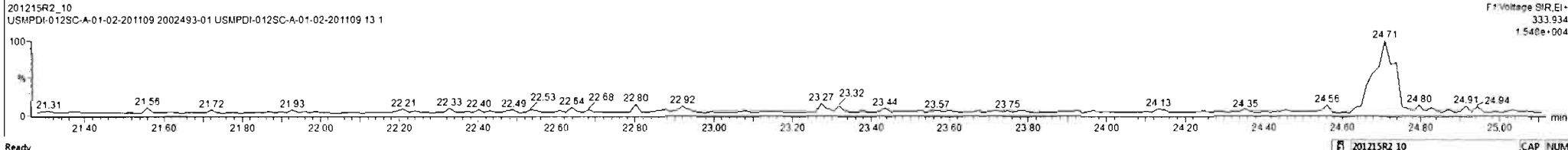
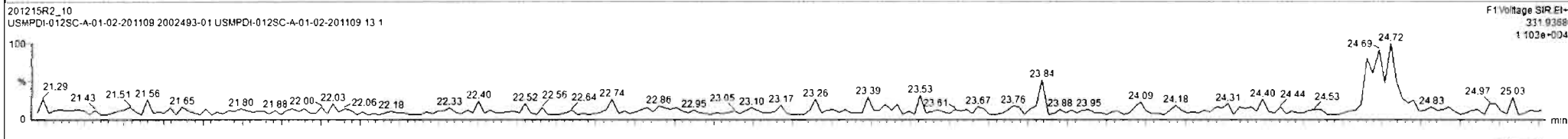
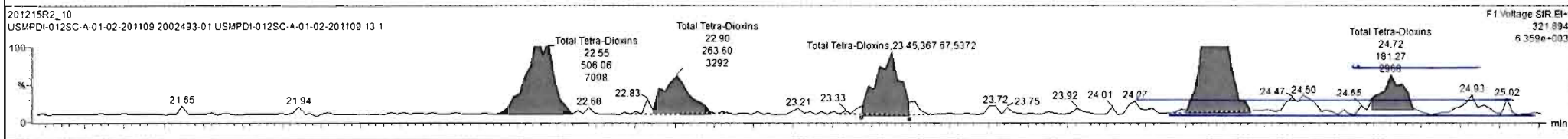
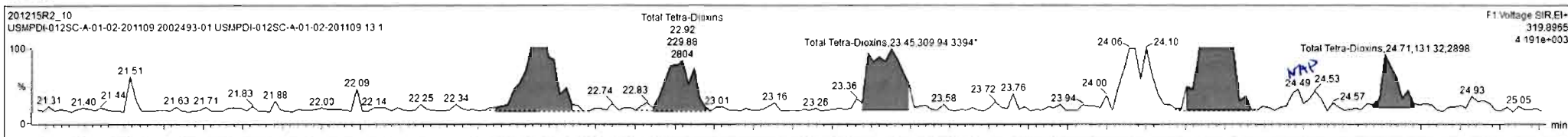
F1:Voltage SIR,EI+
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1.005e+007

201215R2_10

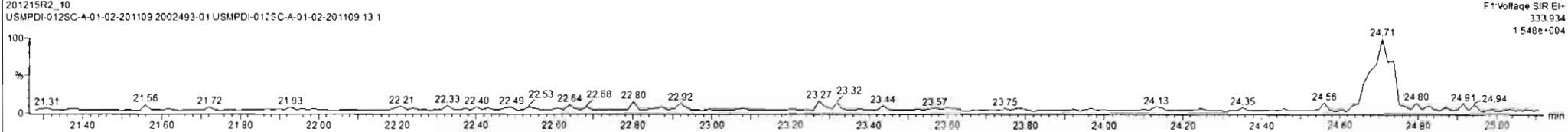
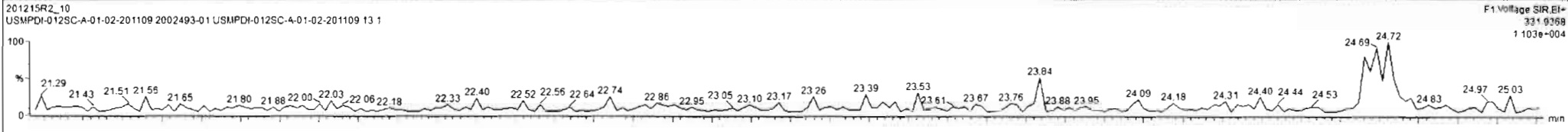
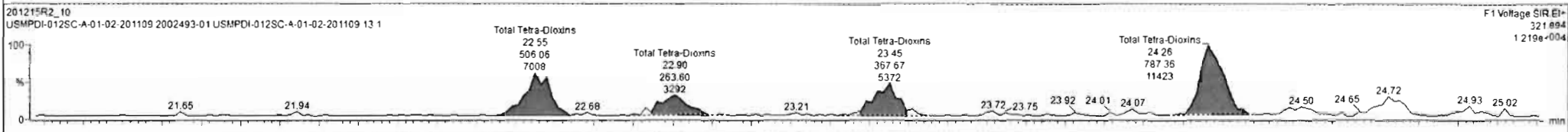
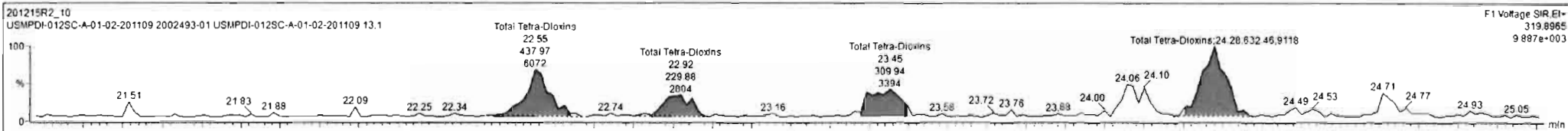


F1:Voltage SIR,EI+
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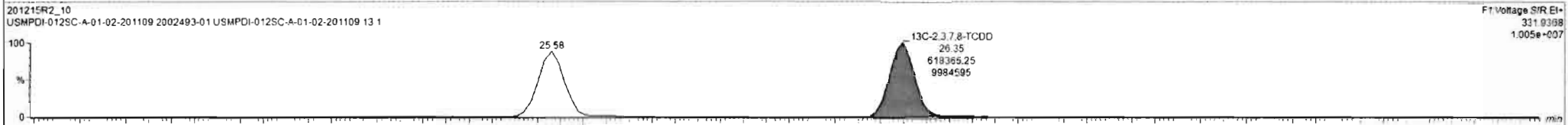
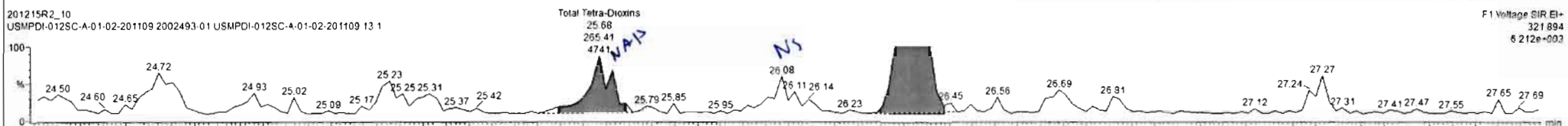
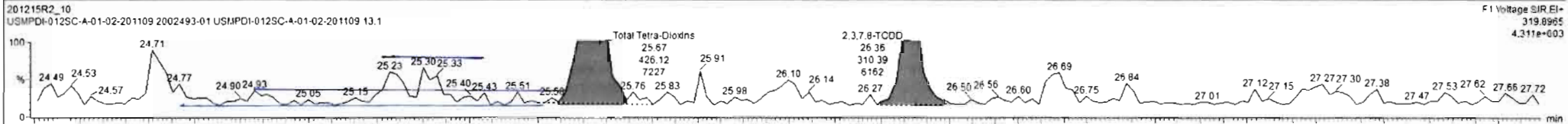
Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9905	10.366			0.490	0.0341	0.697	
40 Total Penta-Dioxins				0.9320	10.366			0.565	0.0371	1.26	
41 Total Hexa-Dioxins				0.9025	10.366			7.95	0.0556	8.05	
42 Total Hepta-Dioxins				0.9180	10.366			40.8	0.325	40.8	
43 Total Tetra-Furans				0.8480	10.366			9.15	0.0431	9.54	
44 1st Func Penta-Furans				0.9597	10.366			1.33	0.0105	1.33	
45 Total Penta-Furans				0.9597	10.366			14.0	0.0460	14.1	
46 Total Hexa-Furans				1.0202	10.366			18.2	0.0633	18.2	
47 Total Hepta-Furans				1.0492	10.366			17.6	0.133	17.6	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
67											



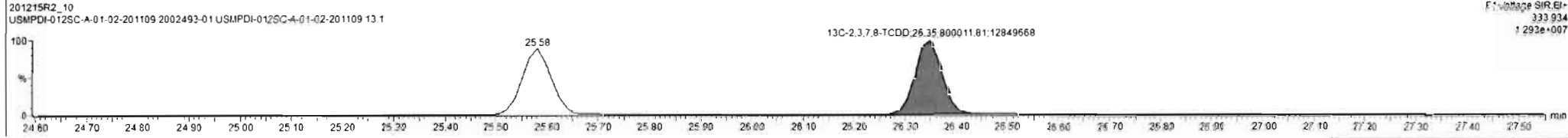
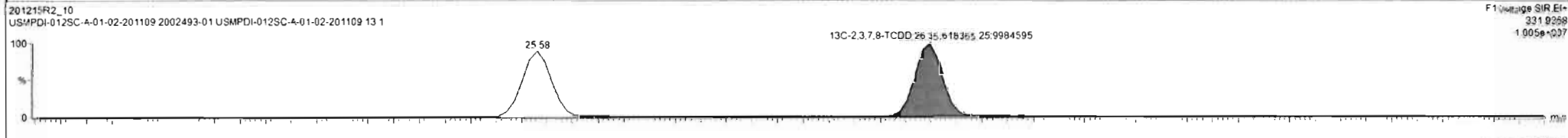
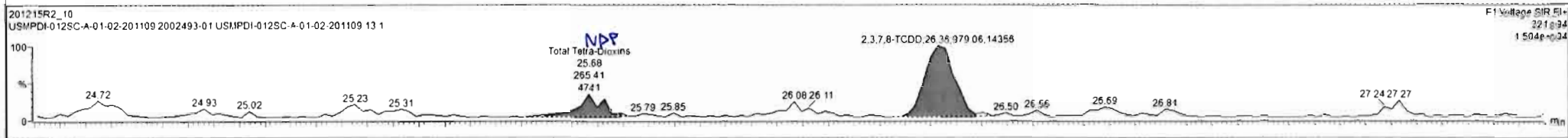
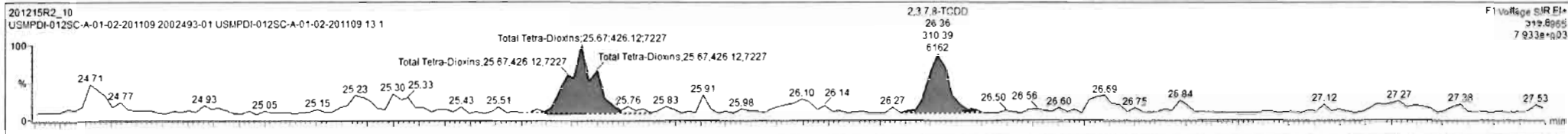
#	Name	Resp	RA	rv	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9605	10.366			0.596	0.0341	0.855	
40	Total Penta-Dioxins				0.9320	10.366			0.565	0.0371	1.26	
41	Total Hexa-Dioxins				0.9025	10.366			7.95	0.0856	8.05	
42	Total Hepta-Dioxins				0.9180	10.366			40.8	0.325	40.8	
43	Total Tetra-Furans				0.8480	10.366			9.15	0.0431	9.54	
44	1st Func Penta-Furans				0.9597	10.366			1.33	0.0105	1.33	
45	Total Penta-Furans				0.9597	10.366			14.0	0.0460	14.1	
46	Total Hexa-Furans				1.0202	10.366			18.2	0.0633	18.2	
47	Total Hepta-Furans				1.0492	10.366			17.6	0.133	17.6	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	Blank											



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9625	10.366			0.396	0.6341	0.855	
40 Total Penta-Dioxins				0.9320	10.366			0.565	0.0371	1.26	
41 Total Hexa-Dioxins				0.9025	10.366			7.95	0.0856	8.05	
42 Total Hepta-Dioxins				0.9180	10.366			40.8	0.325	40.8	
43 Total Tetra-Furans				0.8480	10.366			9.15	0.0431	9.54	
44 1st Func. Penta-Furans				0.9597	10.366			1.33	0.0105	1.33	
45 Total Penta-Furans				0.9597	10.366			14.0	0.0460	14.1	
46 Total Hexa-Furans				1.0202	10.366			18.2	0.0633	18.2	
47 Total Hepta-Furans				1.0492	10.366			17.6	0.133	17.6	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
69											



Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9605	10.366			8.298	0.9341	0.656	
40 Total Penta-Dioxins				0.9320	10.366			0.565	0.8371	1.26	
41 Total Hexa-Dioxins				0.9025	10.366			7.95	0.0856	8.05	
42 Total Hepta-Dioxins				0.9180	10.366			40.8	0.325	40.8	
43 Total Tetra-Furans				0.8480	10.366			9.15	0.0431	9.54	
44 1st Func. Penta-Furans				0.9597	10.366			1.33	0.0105	1.33	
45 Total Penta-Furans				0.9597	10.366			14.0	0.0460	14.1	
46 Total Hexa-Furans				1.0202	10.366			18.2	0.0633	18.2	
47 Total Hepta-Furans				1.0492	10.366			17.6	0.133	17.6	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 Toxic											



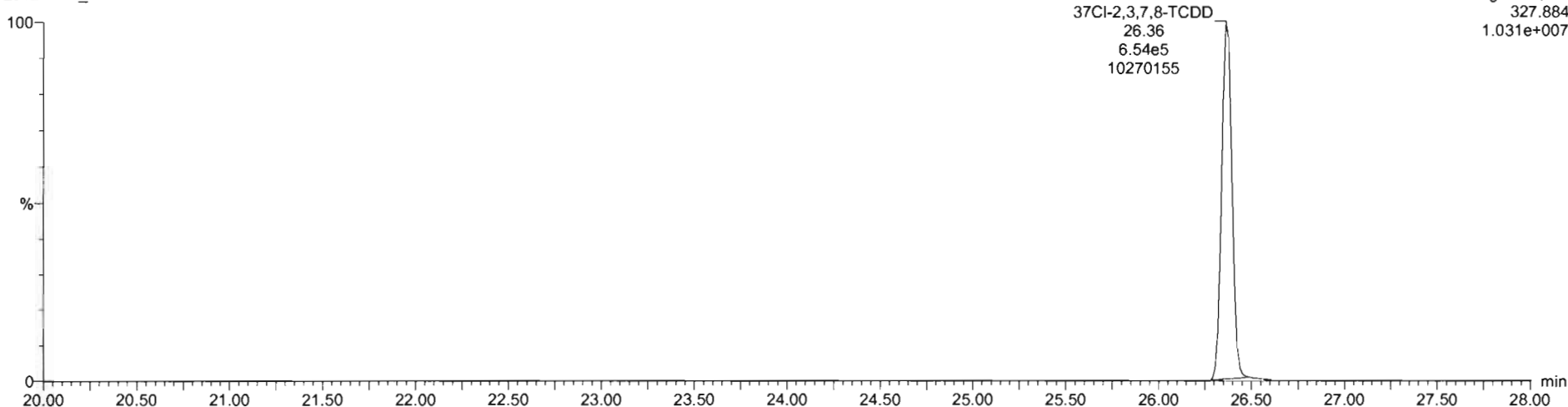
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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

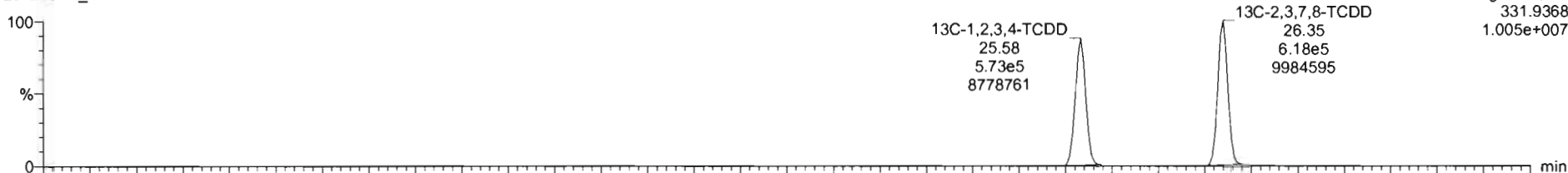
37Cl-2,3,7,8-TCDD

201215R2_10

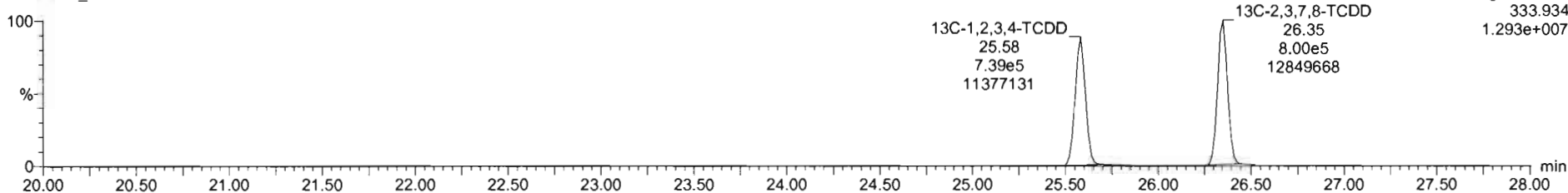


13C-1,2,3,4-TCDD

201215R2_10



201215R2_10



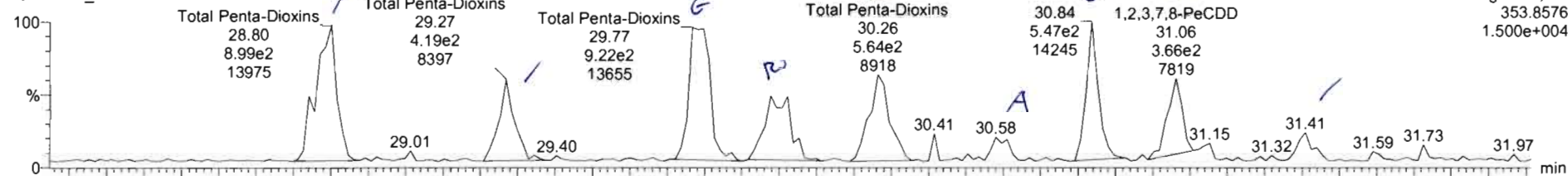
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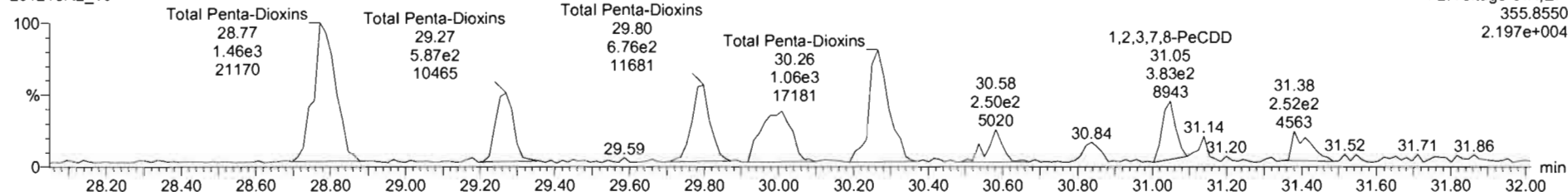
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1,2,3,7,8-PeCDD

201215R2_10



201215R2_10

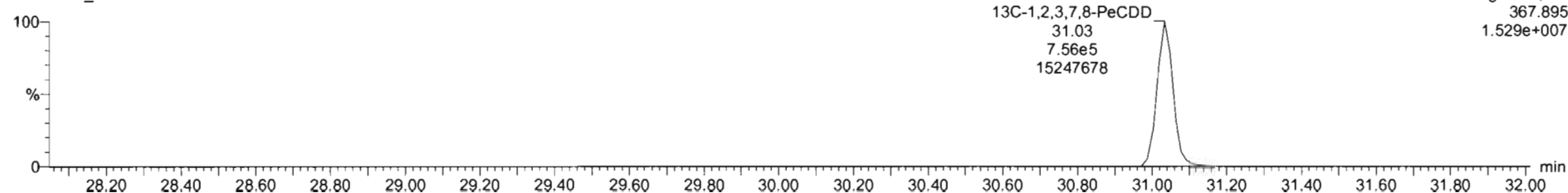


13C-1,2,3,7,8-PeCDD

201215R2_10

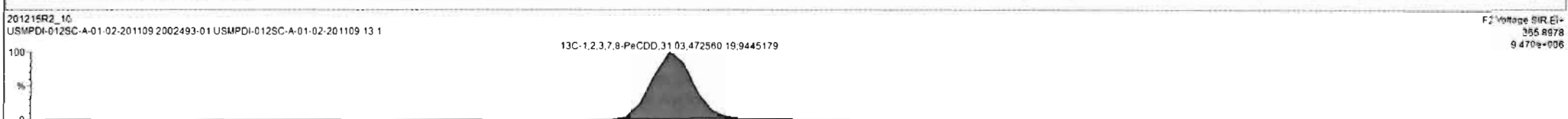
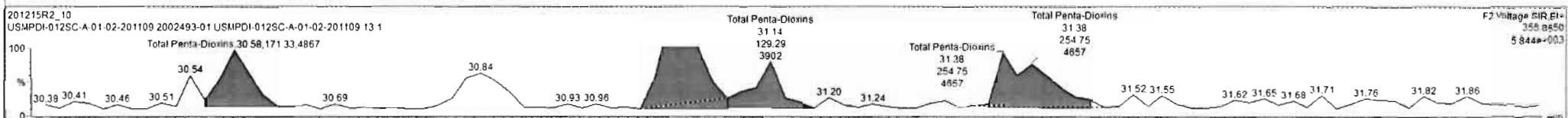
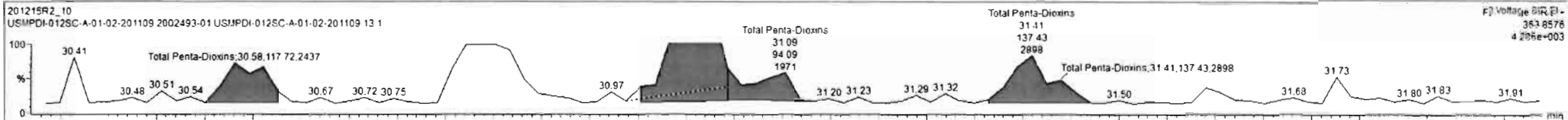


201215R2_10



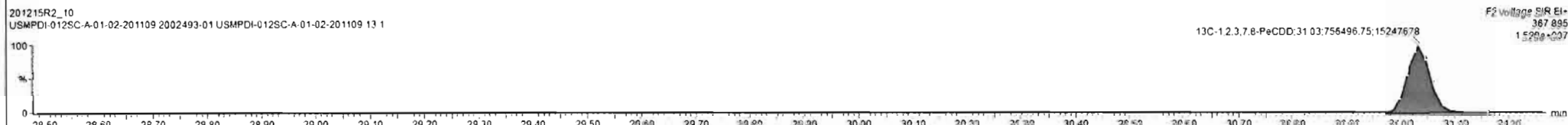
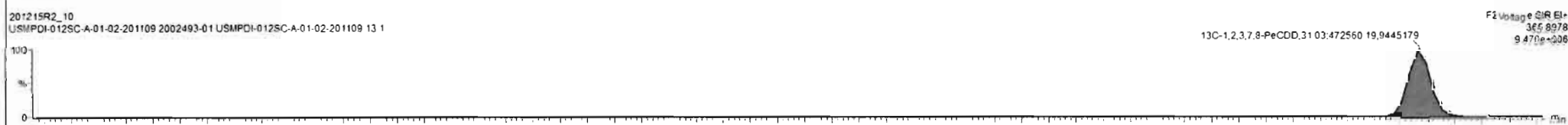
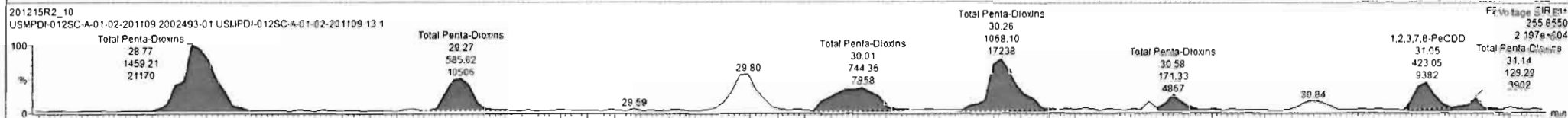
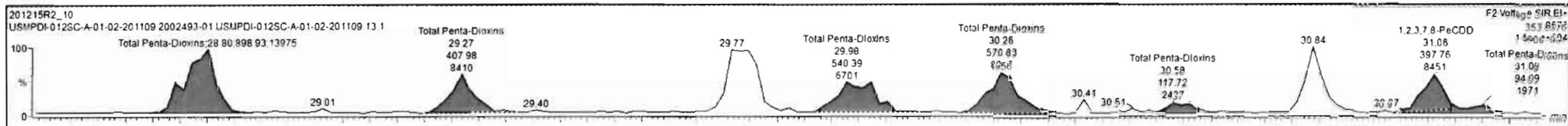
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9805	10.366			0.396		0.0341	0.589
40 Total Penta-Dioxins				0.9320	10.366			0.613		0.0371	1.28
41 Total Hexa-Dioxins				0.9025	10.366			7.95		0.0856	8.05
42 Total Hepta-Dioxins				0.9180	10.366			40.8		0.325	40.8
43 Total Tetra-Furans				0.8480	10.366			9.15		0.0431	9.54
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			14.0		0.0450	14.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.80	8.989e2	1.459e3	0.62	NO	0.39721	0.39721
2 Total Penta-Dioxins	29.27	4.080e2	5.856e2	0.70	NO	0.16736	0.16736
3 Total Penta-Dioxins	29.98	5.404e2	7.444e2	0.73	YES	0.20437	0.09000
4 Total Penta-Dioxins	30.26	5.708e2	1.068e3	0.53	YES	0.24877	0.06000
5 Total Penta-Dioxins	30.58	1.177e2	1.713e2	0.69	NO	0.048686	0.048686
6 1,2,3,7,8-PeCDD	31.05	3.978e2	4.231e2	0.94	YES	0.11615	0.06000



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9805	10.366			0.396	0.0341	0.589	
40 Total Penta-Dioxins				0.9320	10.366			0.613	0.0371	1.26	
41 Total Hexa-Dioxins				0.9025	10.366			7.95	0.0558	8.95	
42 Total Hepta-Dioxins				0.9180	10.366			40.8	0.325	40.8	
43 Total Tetra-Furans				0.8480	10.366			9.15	0.0431	9.54	
44 1st Func. Penta-Furans				0.9597	10.366			1.33	0.0105	1.33	
45 Total Penta-Furans				0.9597	10.366			14.0	0.0460	14.1	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.80	8.989e2	1.459e3	0.62	NO	0.39721	0.39721
2 Total Penta-Dioxins	29.27	4.080e2	5.856e2	0.70	NO	0.16736	0.16736
3 Total Penta-Dioxins	29.98	5.404e2	7.444e2	0.73	YES	0.20437	0.00000
4 Total Penta-Dioxins	30.26	5.708e2	1.068e3	0.53	YES	0.24877	0.00000
5 Total Penta-Dioxins	30.58	1.177e2	1.713e2	0.69	NO	0.048686	0.048686
6 1,2,3,7,8-PeCDD	31.06	3.978e2	4.231e2	0.94	YES	0.11615	0.00000

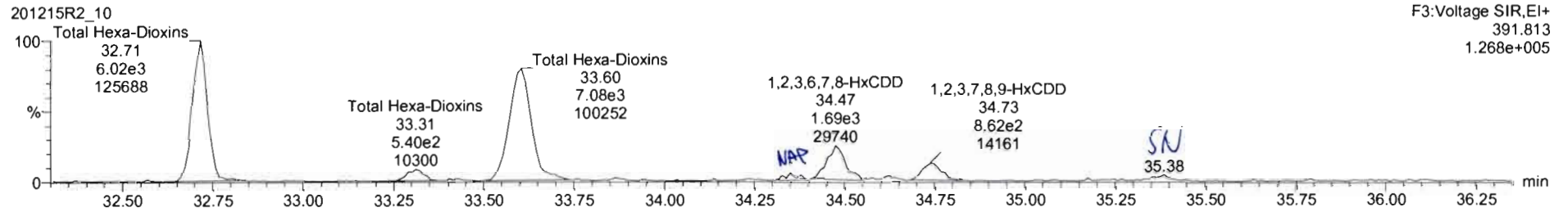
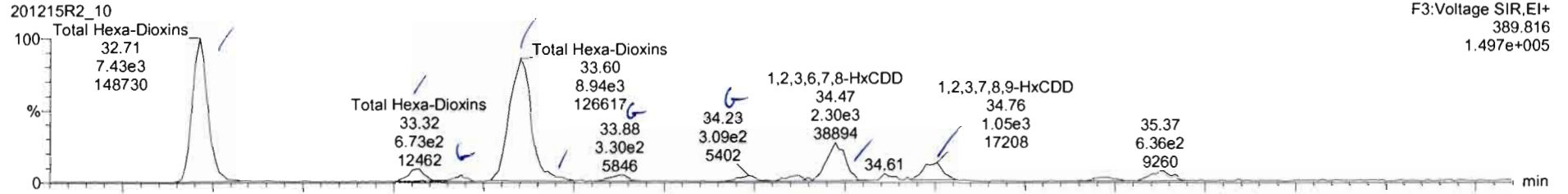


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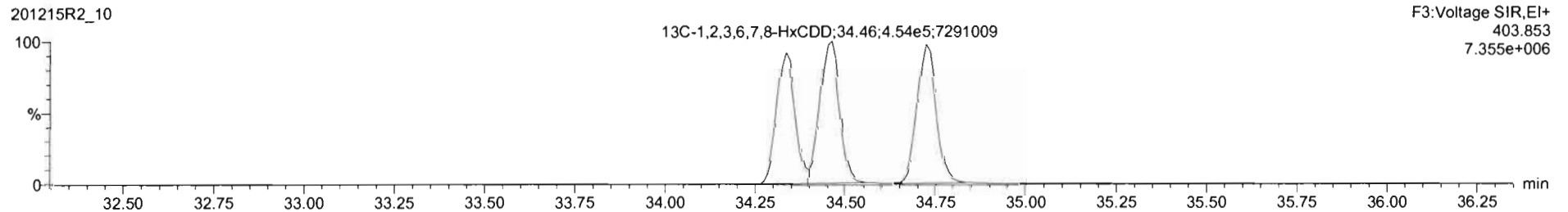
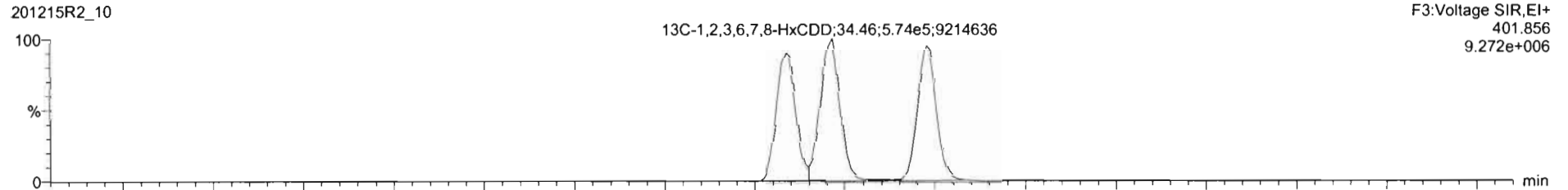
Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
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Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

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

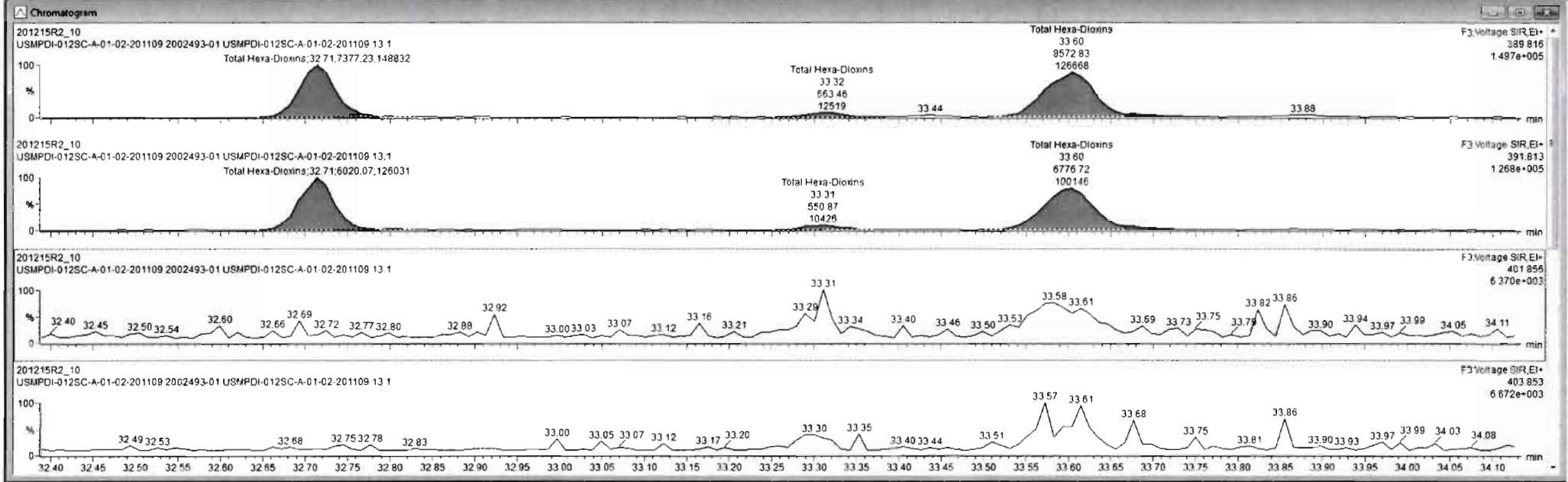


13C-1,2,3,4,7,8-HxCDD



Name	Resp	RA	n/y	RRF	wt%al	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9025	10.366			8.09		0.0056	8.09
42 Total Hepta-Dioxins				0.9180	10.366			40.8		0.325	40.8
43 Total Tetra-Furans				0.8480	10.366			9.15		0.0431	9.54
44 Total Furans, Penta-Furans				0.9607	10.366			1.71		0.0104	1.71

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.71	7.377e3	6.020e3	1.23	NO	2.9360	2.9360
2 Total Hexa-Dioxins	33.32	6.635e2	5.509e2	1.20	NO	0.26612	0.26612
3 Total Hexa-Dioxins	33.60	8.573e3	6.777e3	1.27	NO	3.3638	3.3638
4 Total Hexa-Dioxins	33.68	3.788e2	2.884e2	1.31	NO	0.14821	0.14821
5 1,2,3,4,7,8-HxCDD	34.37	3.494e2	2.567e2	1.36	NO	0.12504	0.12504
6 1,2,3,6,7,8-HxCDD	34.47	2.318e3	1.780e3	1.30	NO	0.85219	0.85219



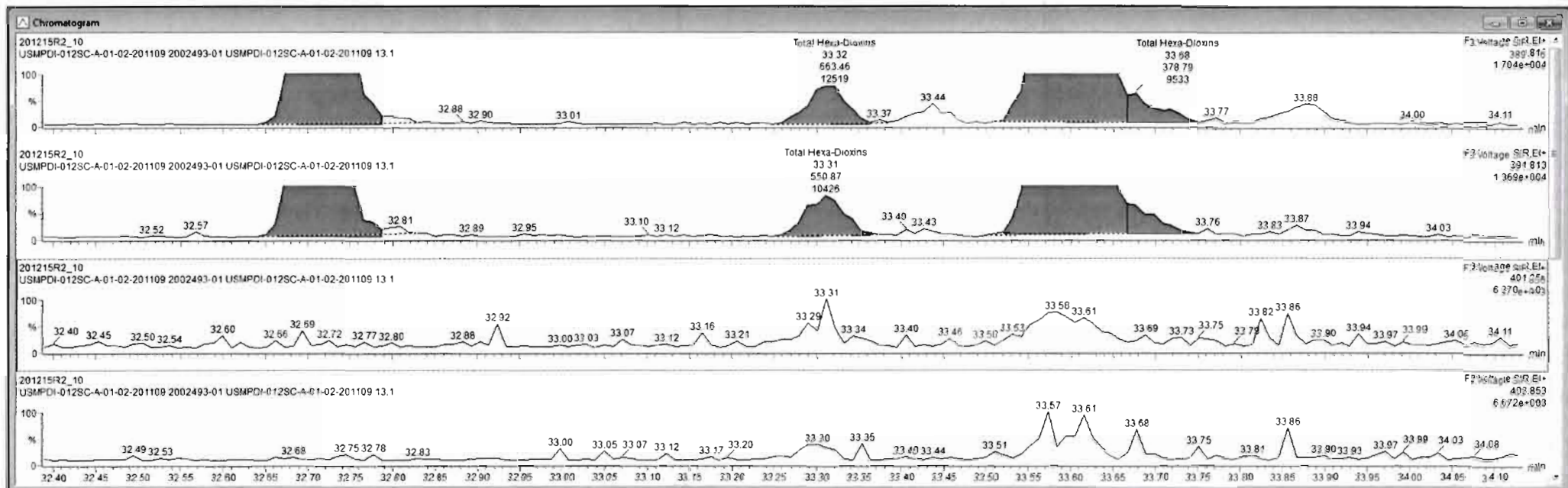
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File Edit View Display Processing Window Help

201215R2_10 - 2002493-01 USMPDI-012SC-A-01-02-201109 13.1 - USMPDI-012SC-A-01-02-201109

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9025	10.366			8.09		0.9856	8.99
42 Total Hepta-Dioxins				0.9180	10.366			40.8		0.325	40.8
43 Total Tetra-Furans				0.8480	10.366			9.15		0.0431	9.54
44 Total Furans-Dioxins				0.0007	10.366			1.33		0.0160	1.33

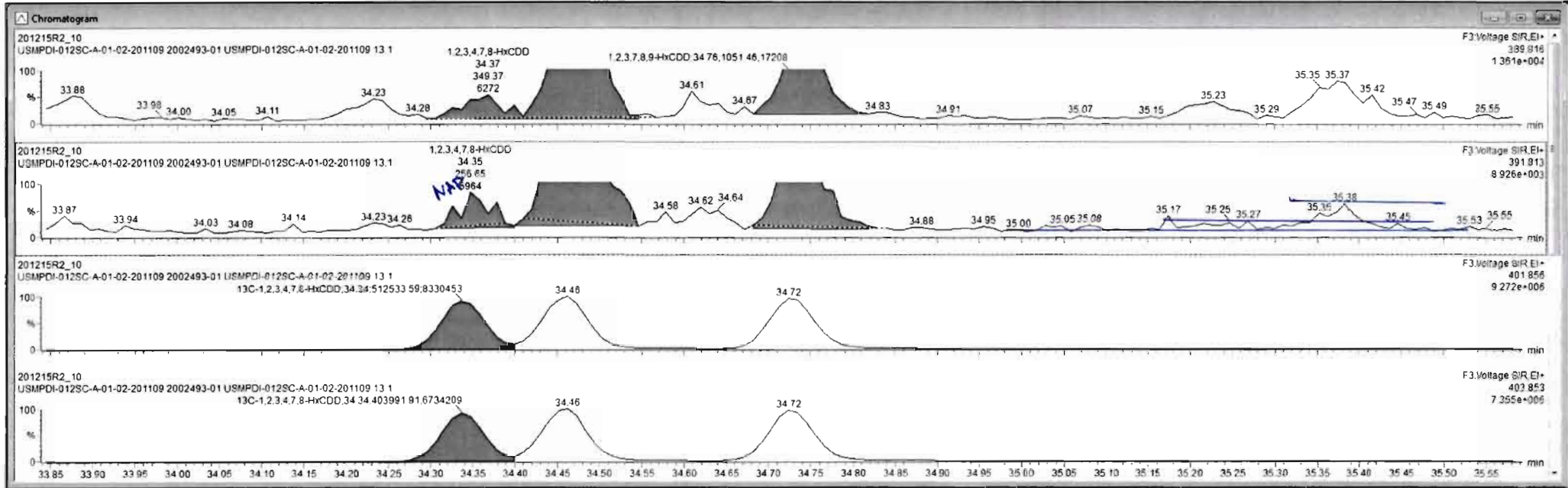
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.71	7.377e3	6.020e3	1.23	NO	2.9360	2.9360
2 Total Hexa-Dioxins	33.32	6.635e2	5.509e2	1.20	NO	0.26612	0.26612
3 Total Hexa-Dioxins	33.60	8.573e3	6.777e3	1.27	NO	3.3638	3.3638
4 Total Hexa-Dioxins	33.68	3.788e2	2.884e2	1.31	NO	0.14621	0.14621
5 1,2,3,4,7,8-HxCDD	34.37	3.494e2	2.567e2	1.36	NO	0.12504	0.12504
6 1,2,3,6,7,8-HxCDD	34.47	2.318e3	1.780e3	1.30	NO	0.85219	0.85219



Regdv

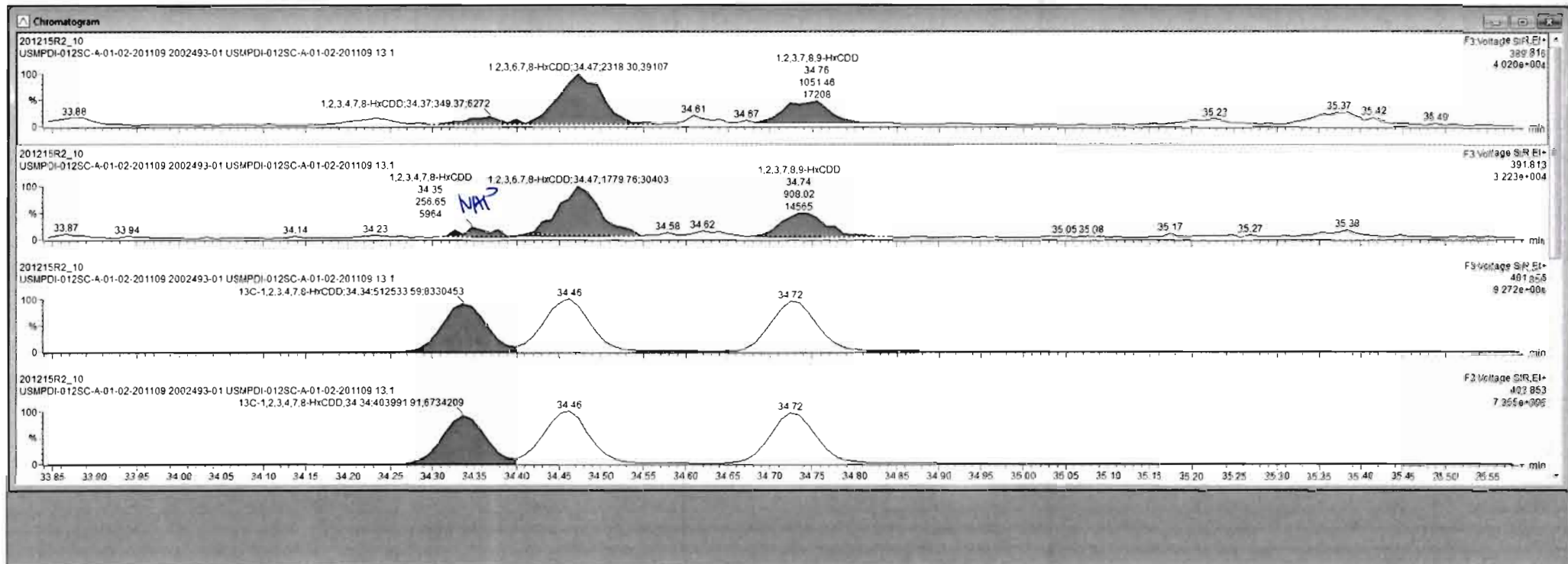
Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9025	10.366			8.09		0.0859	8.08
42 Total Hepta-Dioxins				0.9180	10.366			40.8		0.325	40.8
43 Total Tetra-Furans				0.8480	10.366			9.15		0.0431	9.54
44 1st Func. Penta-Furans				0.9007	10.366			1.11		0.0100	1.11

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.71	7.377e3	6.020e3	1.23	NO	2.9360	2.9360
2 Total Hexa-Dioxins	33.32	6.635e2	5.509e2	1.20	NO	0.26612	0.26612
3 Total Hexa-Dioxins	33.60	8.573e3	6.777e3	1.27	NO	3.3638	3.3638
4 Total Hexa-Dioxins	33.88	3.788e2	2.884e2	1.31	NO	0.14621	0.14621
5 1,2,3,4,7,8-HxCDD	34.37	3.494e2	2.567e2	1.36	NO	0.12504	0.12504
6 1,2,3,6,7,8-HxCDD	34.47	2.318e3	1.786e3	1.30	NO	0.85219	0.85219



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9025	10.366			8.09		0.0856	8.08
42 Total Hepta-Dioxins				0.9189	10.366			40.8		0.325	40.8
43 Total Tetra-Furens				0.8460	10.366			9.15		0.0431	9.54
44 Tet Furens, Dioxins, Furans				0.9507	10.366			1.33		0.0160	1.33

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.71	7.377e3	6.020e3	1.23	NO	2.9360	2.9360
2 Total Hexa-Dioxins	33.32	6.635e2	5.509e2	1.20	NO	0.26612	0.26612
3 Total Hexa-Dioxins	33.60	8.573e3	6.777e3	1.27	NO	3.3638	3.3638
4 Total Hexa-Dioxins	33.68	3.788e2	2.884e2	1.31	NO	0.14621	0.14621
5 1,2,3,4,7,8-HxCDD	34.37	3.494e2	2.567e2	1.36	NO	0.12504	0.12504
6 1,2,3,6,7,8-HxCDD	34.47	2.318e3	1.780e3	1.30	NO	0.85219	0.85219



Ready

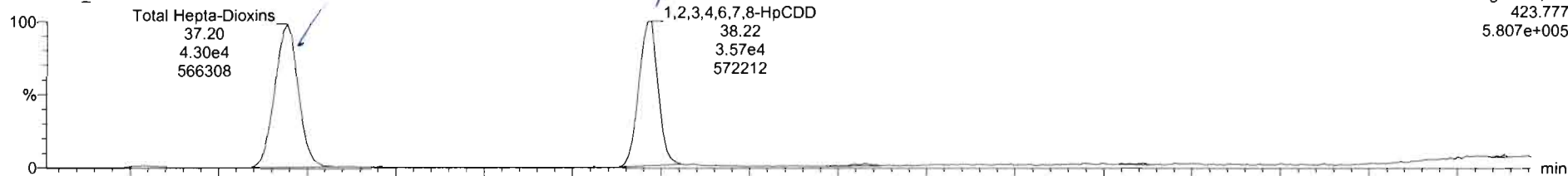
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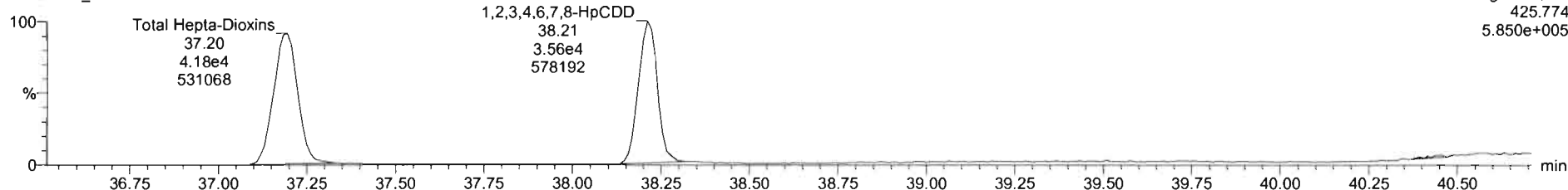
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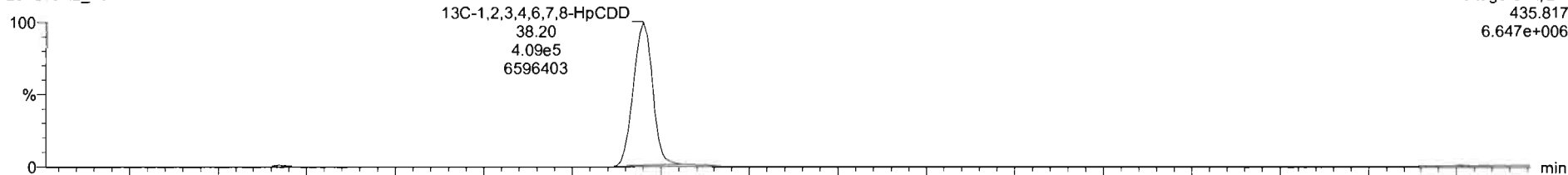


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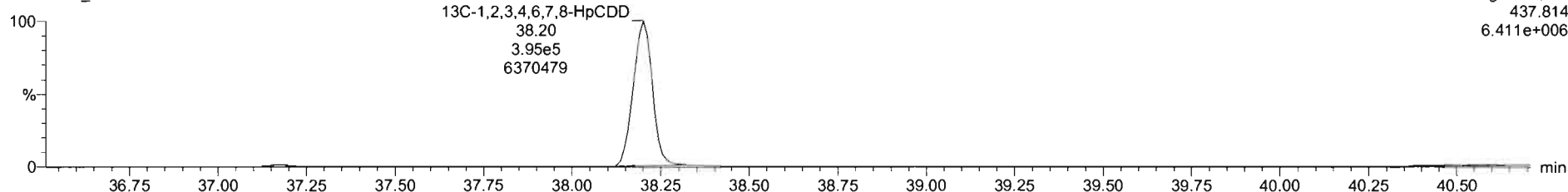


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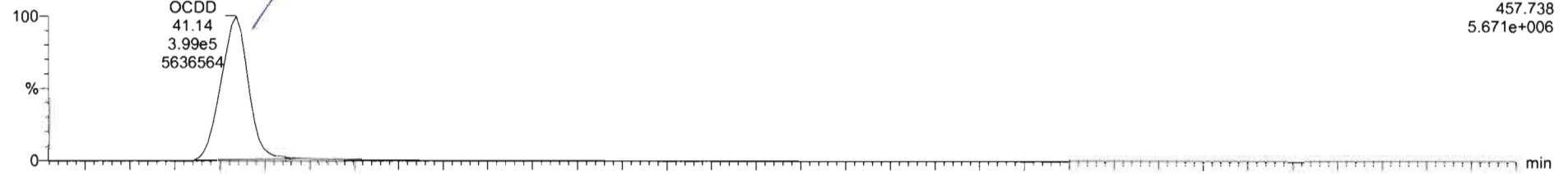
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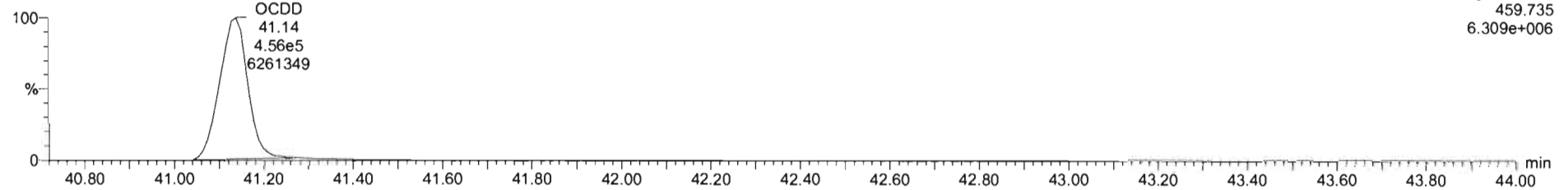
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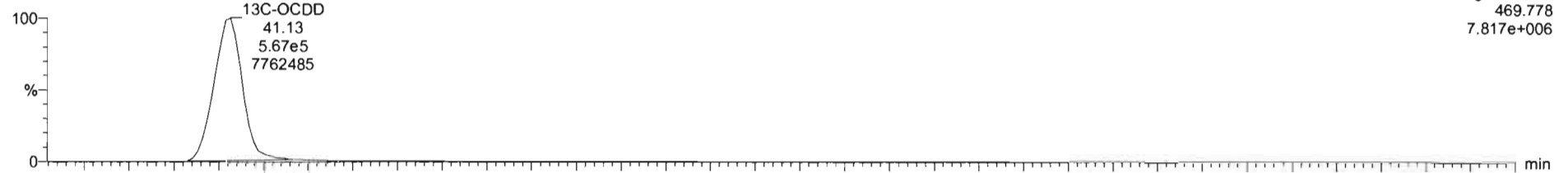


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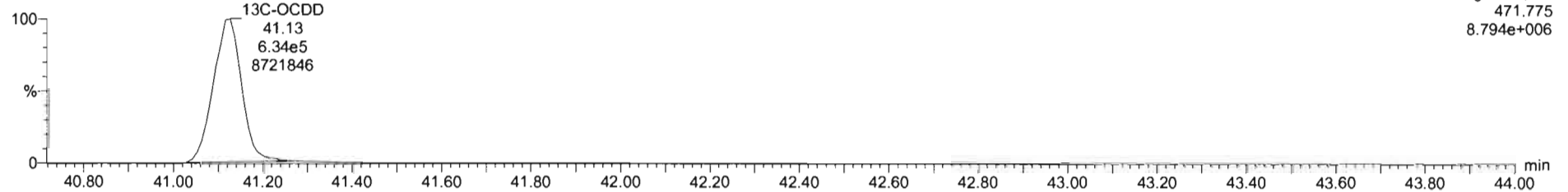


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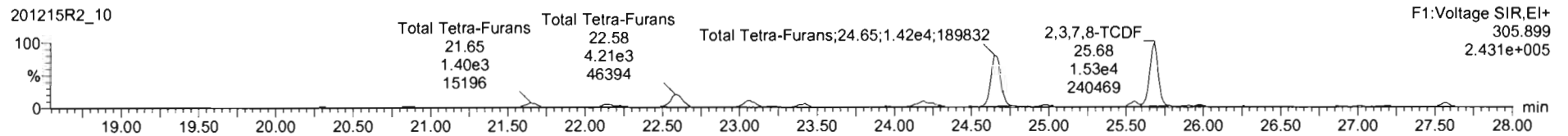
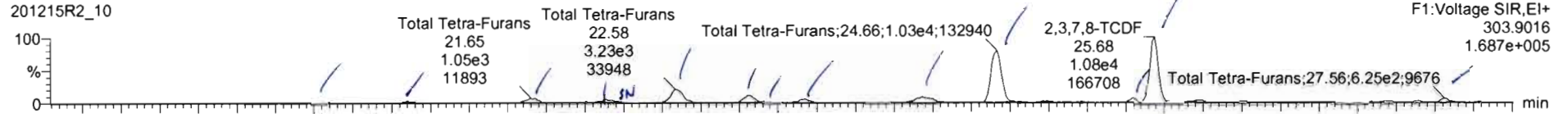


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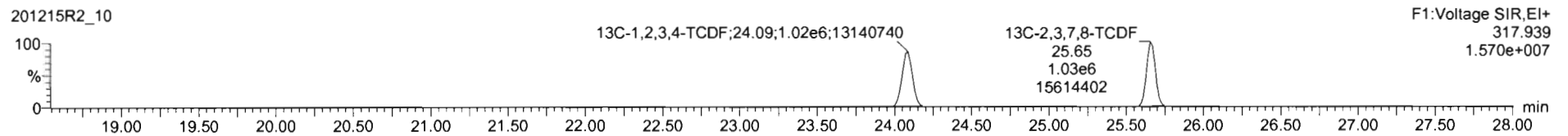
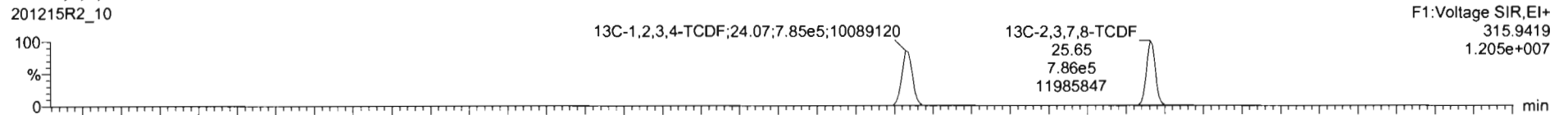
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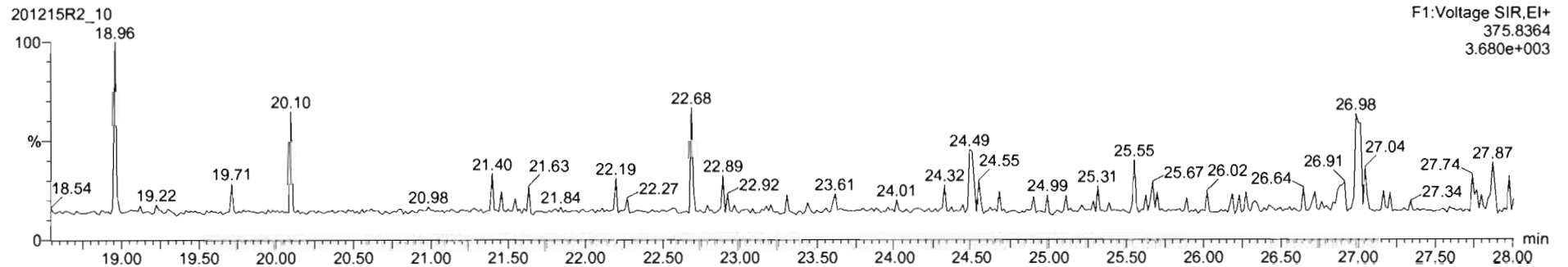
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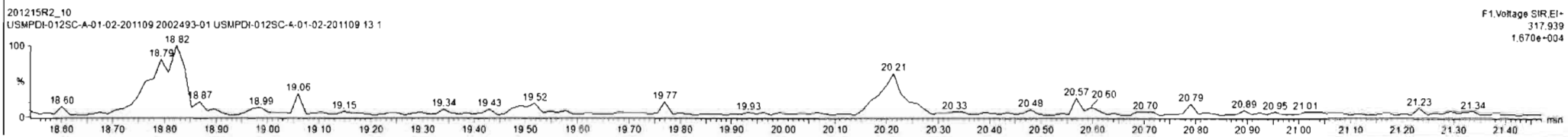
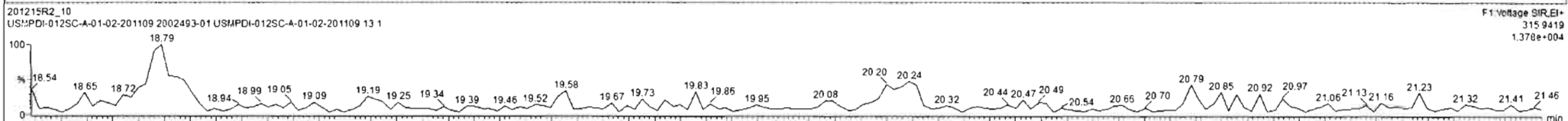
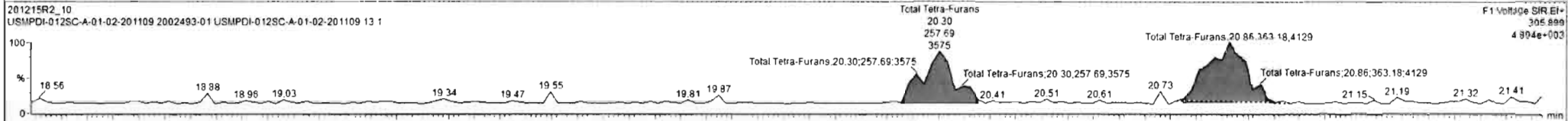
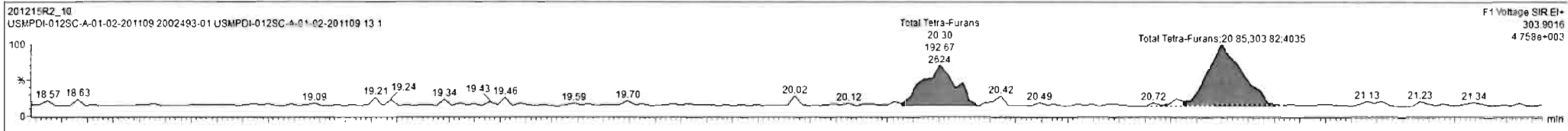


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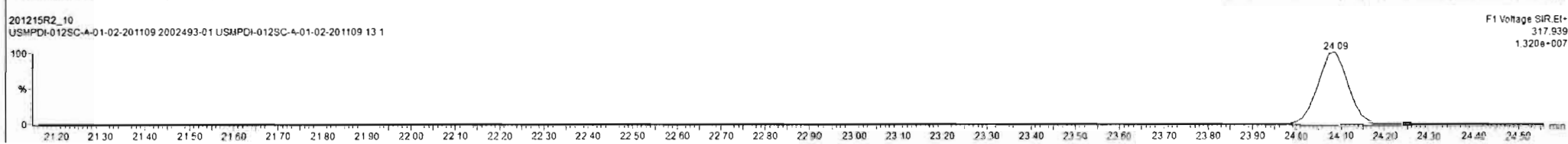
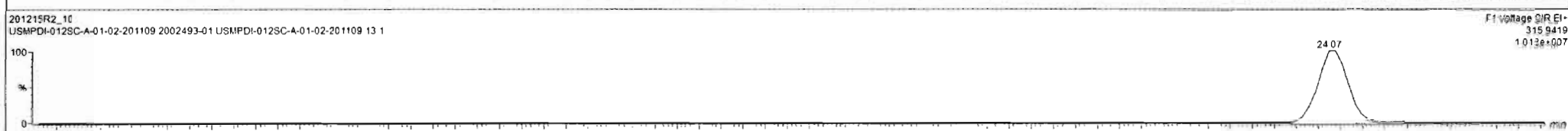
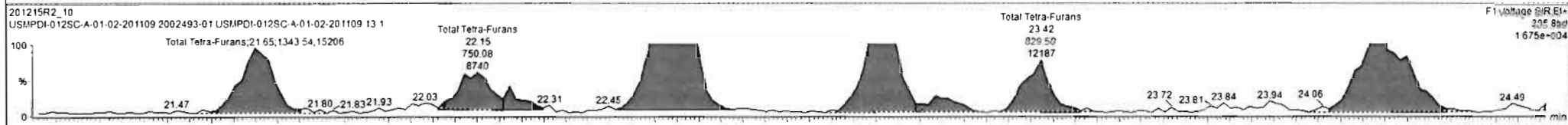
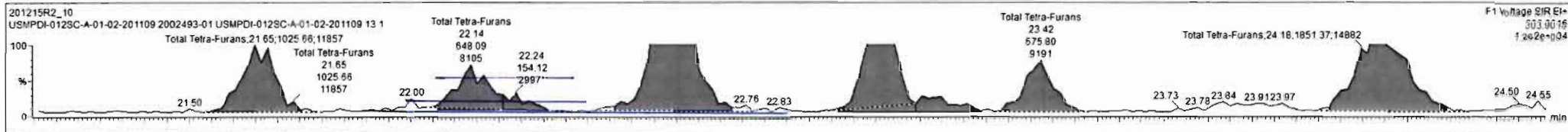
Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.368			9.64		0.0431	9.81
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			14.0		0.0460	14.1
46 Total Hexa-Furans				1.0202	10.366			18.71		0.0611	18.71

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.30	1.927e2	2.577e2	0.75	NO	0.056331	0.056331
2 Total Tetra-Furans	20.85	3.038e2	3.632e2	0.84	NO	0.083427	0.083427
3 Total Tetra-Furans	21.65	1.026e3	1.344e3	0.76	NO	0.29634	0.29634
4 Total Tetra-Furans	22.14	6.481e2	7.501e2	0.86	NO	0.17488	0.17488
5 Total Tetra-Furans	22.58	3.187e3	4.214e3	0.76	NO	0.92572	0.92572
6 Total Tetra-Furans	23.05	1.543e3	2.023e3	0.76	NO	0.44594	0.44594
7 Total Tetra-Furans	23.16	2.451e2	3.037e2	0.81	NO	0.063636	0.063636
8 Total Tetra-Furans	23.42	6.758e2	8.295e2	0.81	NO	0.18828	0.18828
9 Total Tetra-Furans	24.18	1.851e3	2.453e3	0.75	NO	0.53843	0.53843



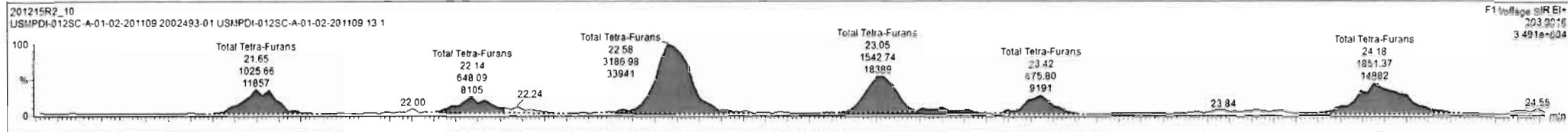
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.368			9.64		0.8431	9.81
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.9106	1.33
45 Total Penta-Furans				0.9597	10.366			14.0		0.9469	14.1
46 Total Hexa-Furans				1.0707	10.366			18.7		0.9611	18.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.30	1.927e2	2.577e2	0.75	NO	0.056331	0.056331
2 Total Tetra-Furans	20.85	3.038e2	3.832e2	0.84	NO	0.083427	0.083427
3 Total Tetra-Furans	21.65	1.026e3	1.344e3	0.76	NO	0.29634	0.29634
4 Total Tetra-Furans	22.14	6.481e2	7.501e2	0.86	NO	0.17468	0.17468
5 Total Tetra-Furans	22.58	3.187e3	4.214e3	0.76	NO	0.92572	0.92572
6 Total Tetra-Furans	23.05	1.543e3	2.023e3	0.76	NO	0.44594	0.44594
7 Total Tetra-Furans	23.16	2.451e2	3.037e2	0.81	NO	0.068639	0.068639
8 Total Tetra-Furans	23.42	6.758e2	8.295e2	0.81	NO	0.18828	0.18828
9 Total Tetra-Furans	24.18	1.851e3	2.453e3	0.75	NO	0.53843	0.53843



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5420	10.366			9.64		0.0431	9.81
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0195	1.33
45 Total Penta-Furans				0.9597	10.366			14.0		0.0460	14.1
46 Total Hexa-Furans				1.0707	10.366			18.71		0.0613	18.7

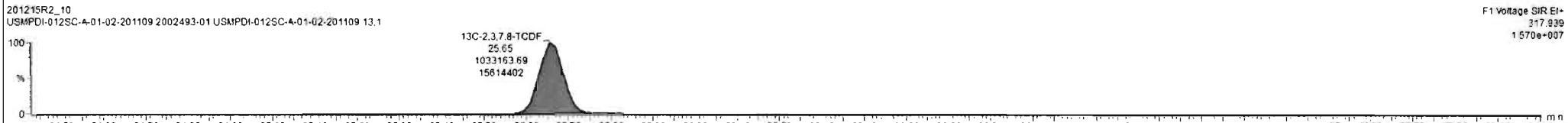
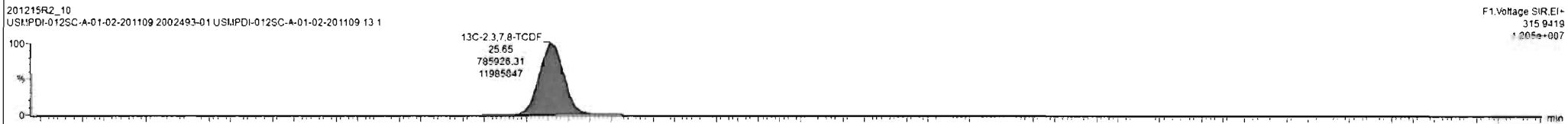
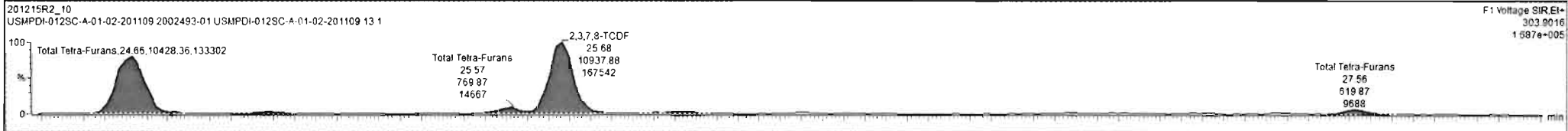
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.30	1.927e2	2.577e2	0.75	NO	0.056331	0.056331
2 Total Tetra-Furans	20.85	3.038e2	3.632e2	0.84	NO	0.083427	0.083427
3 Total Tetra-Furans	21.65	1.026e3	1.344e3	0.76	NO	0.29634	0.29634
4 Total Tetra-Furans	22.14	6.481e2	7.501e2	0.86	NO	0.17488	0.17488
5 Total Tetra-Furans	22.58	3.187e3	4.214e3	0.76	NO	0.92572	0.92572
6 Total Tetra-Furans	23.05	1.543e3	2.023e3	0.76	NO	0.44594	0.44594
7 Total Tetra-Furans	23.16	2.451e2	3.037e2	0.81	NO	0.069636	0.069636
8 Total Tetra-Furans	23.42	6.758e2	8.295e2	0.81	NO	0.18828	0.18828
9 Total Tetra-Furans	24.18	1.851e3	2.453e3	0.75	NO	0.53843	0.53843



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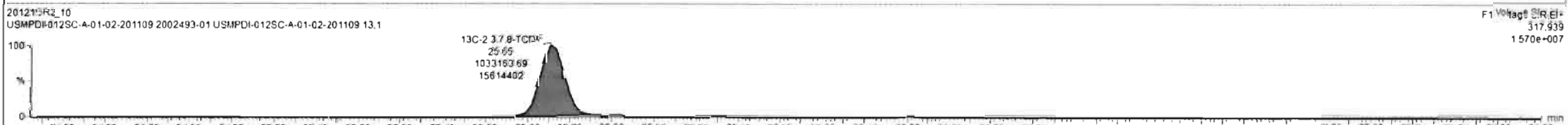
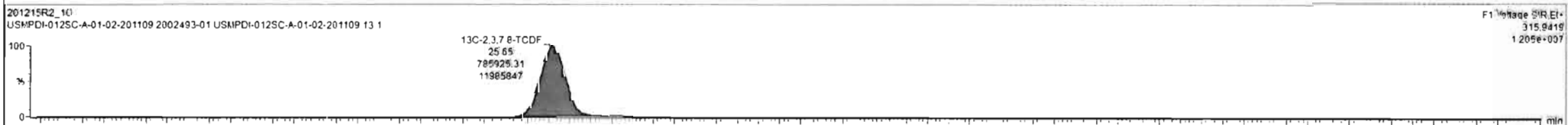
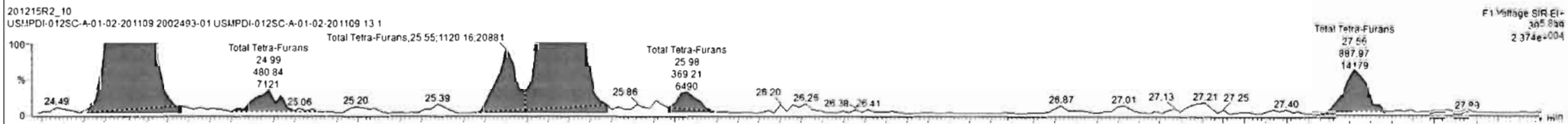
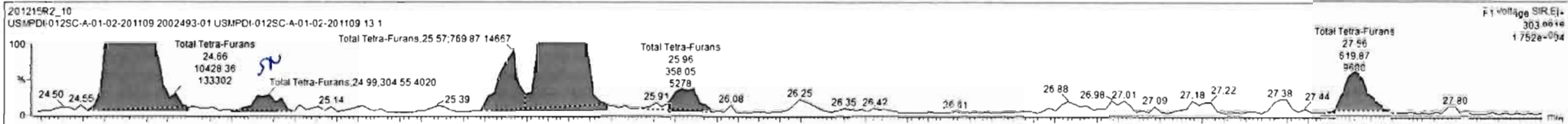
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8403	10.366			9.64		0.0431	9.81
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			9.91		0.0460	10.0
46 Total Hexa-Furans				1.0593	10.366			12.71		0.0611	12.71

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.30	1.927e2	2.577e2	0.75	NO	0.056331	0.056331
2 Total Tetra-Furans	20.85	3.038e2	3.632e2	0.84	NO	0.083427	0.083427
3 Total Tetra-Furans	21.65	1.026e3	1.344e3	0.76	NO	0.29634	0.29634
4 Total Tetra-Furans	22.14	6.481e2	7.501e2	0.86	NO	0.17468	0.17468
5 Total Tetra-Furans	22.58	3.187e3	4.214e3	0.76	NO	0.92572	0.92572
6 Total Tetra-Furans	23.05	1.543e3	2.023e3	0.76	NO	0.44594	0.44594
7 Total Tetra-Furans	23.16	2.451e2	3.037e2	0.81	NO	0.069636	0.069636
8 Total Tetra-Furans	23.42	6.758e2	8.295e2	0.81	NO	0.18828	0.18828
9 Total Tetra-Furans	24.18	1.851e3	2.453e3	0.75	NO	0.53843	0.53843



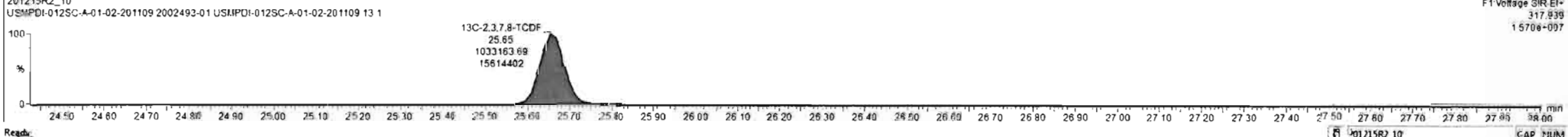
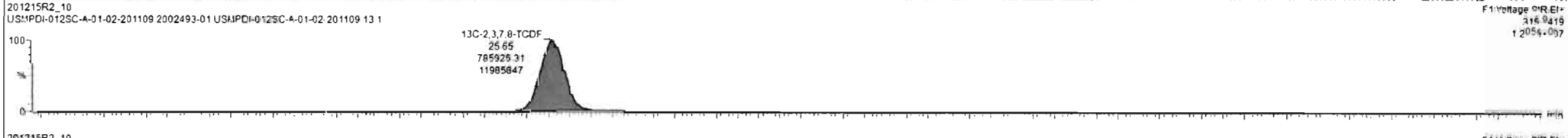
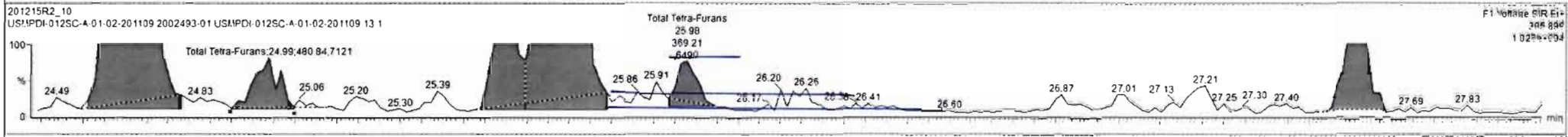
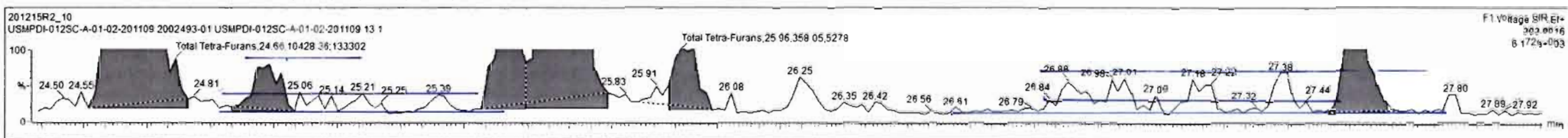
Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8485	10.366			9.84	0.0431	9.81	
44 1st Func. Penta-Furans				0.9597	10.366			1.33	0.0105	1.33	
45 Total Penta-Furans				0.9597	10.366			9.91	0.0460	10.0	
46 Total Hexa-Furans				1.0702	10.366			18.2	0.0611	18.2	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.30	1.927e2	2.577e2	0.75	NO	0.056331	0.056331
2 Total Tetra-Furans	20.85	3.038e2	3.832e2	0.84	NO	0.083427	0.083427
3 Total Tetra-Furans	21.65	1.026e3	1.344e3	0.76	NO	0.29634	0.29634
4 Total Tetra-Furans	22.14	6.481e2	7.501e2	0.86	NO	0.17488	0.17488
5 Total Tetra-Furans	22.58	3.187e3	4.214e3	0.76	NO	0.92572	0.92572
6 Total Tetra-Furans	23.05	1.543e3	2.023e3	0.76	NO	0.44594	0.44594
7 Total Tetra-Furans	23.16	2.451e2	3.037e2	0.81	NO	0.068636	0.068636
8 Total Tetra-Furans	23.42	6.758e2	8.295e2	0.81	NO	0.18828	0.18828
9 Total Tetra-Furans	24.18	1.851e3	2.453e3	0.75	NO	0.53843	0.53843



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8450	10.366			9.64	0.0431	9.81	
44 1st Func. Penta-Furans				0.9597	10.366			1.33	0.0105	1.33	
45 Total Penta-Furans				0.9597	10.366			9.91	0.0460	10.0	
46 Total Hexa-Furans				1.0702	10.366			18.7	0.0671	18.7	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.30	1.927e2	2.577e2	0.75	NO	0.056331	0.056331
2 Total Tetra-Furans	20.85	3.038e2	3.632e2	0.84	NO	0.083427	0.083427
3 Total Tetra-Furans	21.65	1.026e3	1.344e3	0.76	NO	0.29634	0.29634
4 Total Tetra-Furans	22.14	6.481e2	7.501e2	0.86	NO	0.17488	0.17488
5 Total Tetra-Furans	22.58	3.187e3	4.214e3	0.76	NO	0.92572	0.92572
6 Total Tetra-Furans	23.05	1.543e3	2.023e3	0.76	NO	0.44594	0.44594
7 Total Tetra-Furans	23.16	2.451e2	3.037e2	0.81	NO	0.068636	0.068636
8 Total Tetra-Furans	23.42	6.758e2	8.295e2	0.81	NO	0.18828	0.18828
9 Total Tetra-Furans	24.18	1.851e3	2.453e3	0.75	NO	0.53843	0.53843



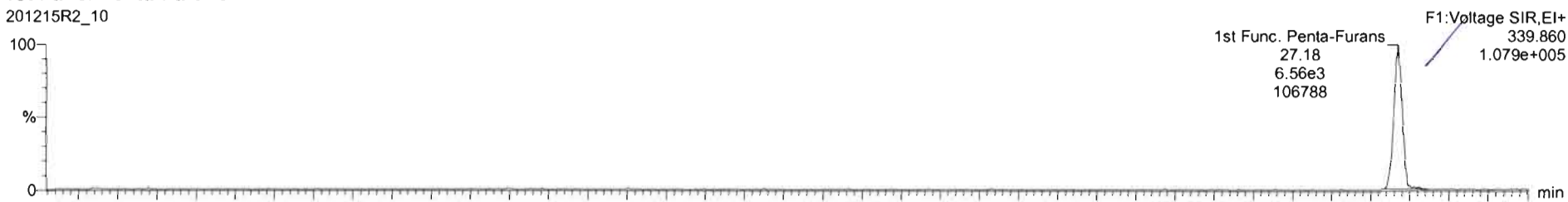
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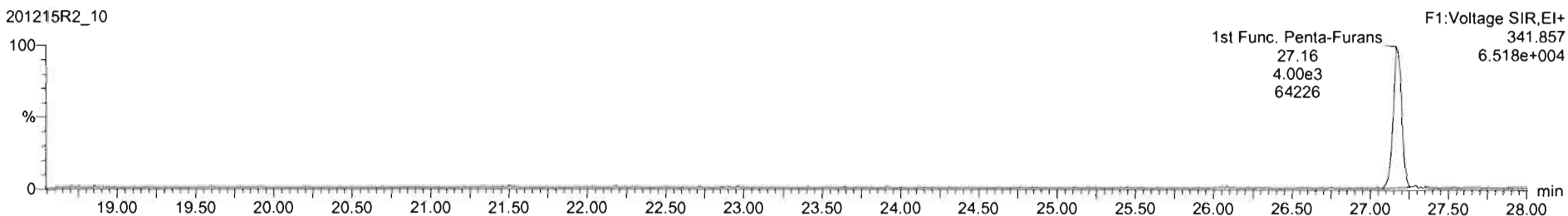
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1st Func. Penta-Furans

201215R2_10

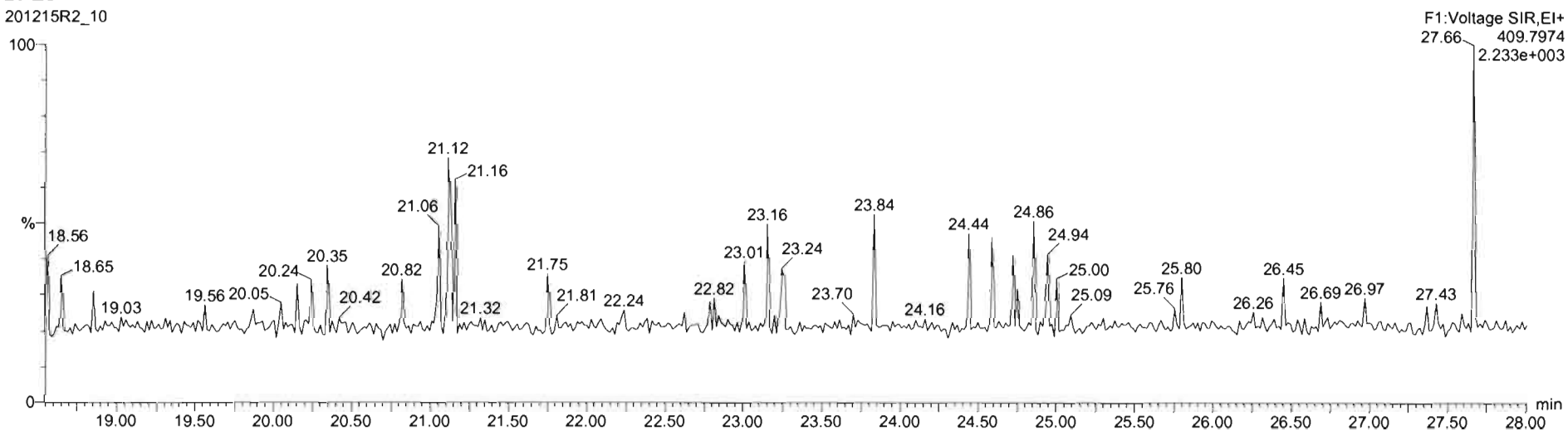


201215R2_10



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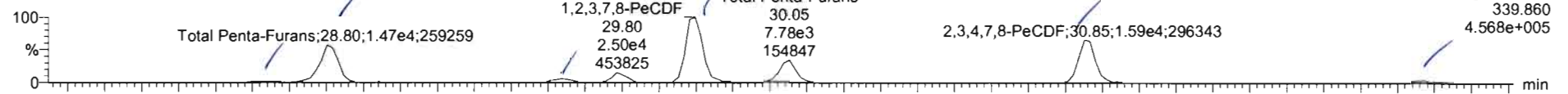
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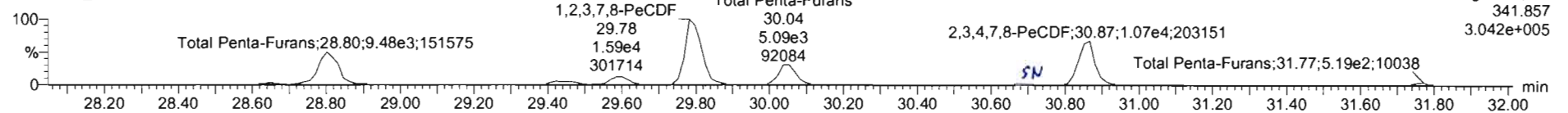
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1,2,3,7,8-PeCDF

201215R2_10

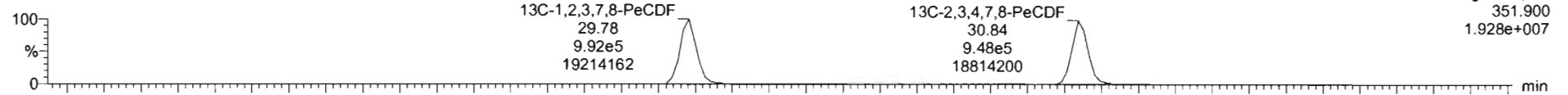


201215R2_10

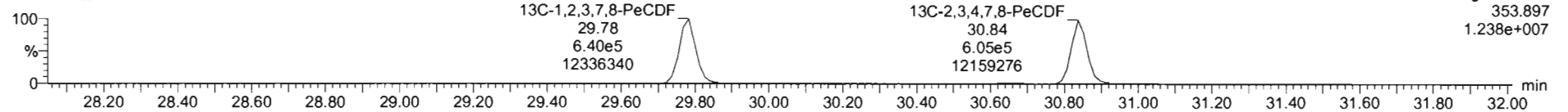


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201215R2_10

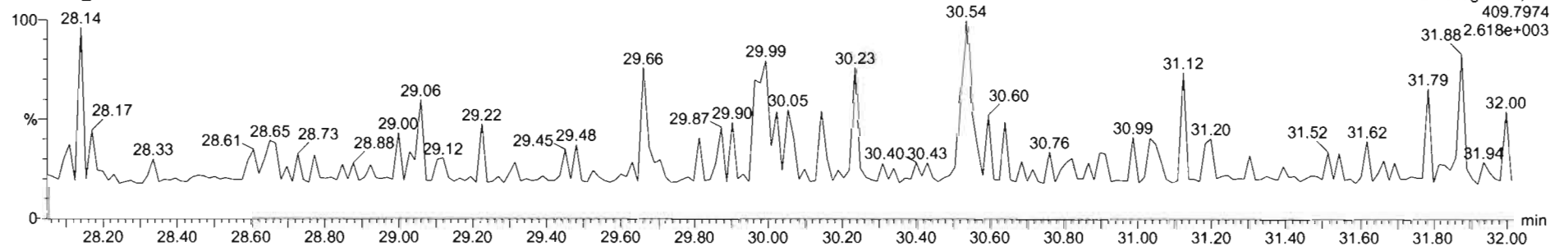


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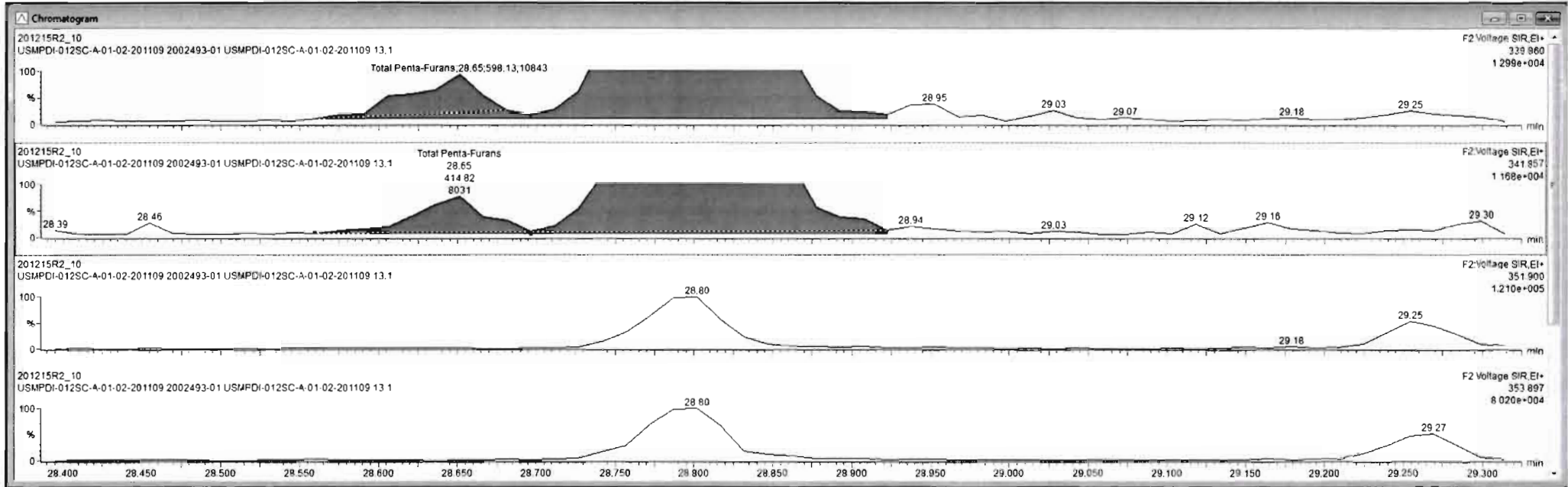
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201215R2_10



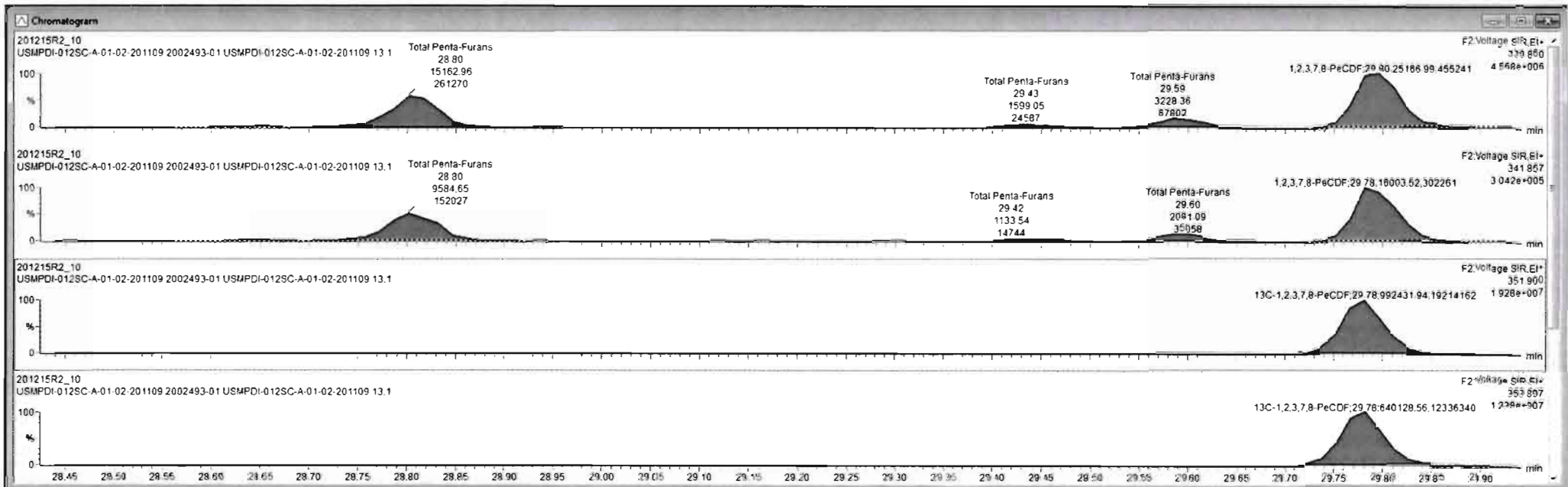
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.366			9.64		0.0431	9.64
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			14.2		0.0480	14.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.65	5.981e2	4.148e2	1.44	NO	0.12785	0.12785
2 Total Penta-Furans	28.80	1.516e4	9.585e3	1.58	NO	3.1235	3.1235
3 Total Penta-Furans	29.43	1.599e3	1.134e3	1.41	NO	0.34490	0.34490
4 Total Penta-Furans	29.59	3.228e3	2.081e3	1.55	NO	0.67013	0.67013
5 1,2,3,7,8-PeCDF	29.80	2.517e4	1.600e4	1.57	NO	5.0701	5.0701
6 Total Penta-Furans	30.05	7.982e3	5.085e3	1.57	NO	1.6493	1.6493
7 2,3,4,7,8-PeCDF	30.85	1.593e4	1.066e4	1.49	NO	3.0960	3.0960
8 Total Penta-Furans	31.77	7.078e2	5.089e2	1.39	NO	0.15357	0.15357



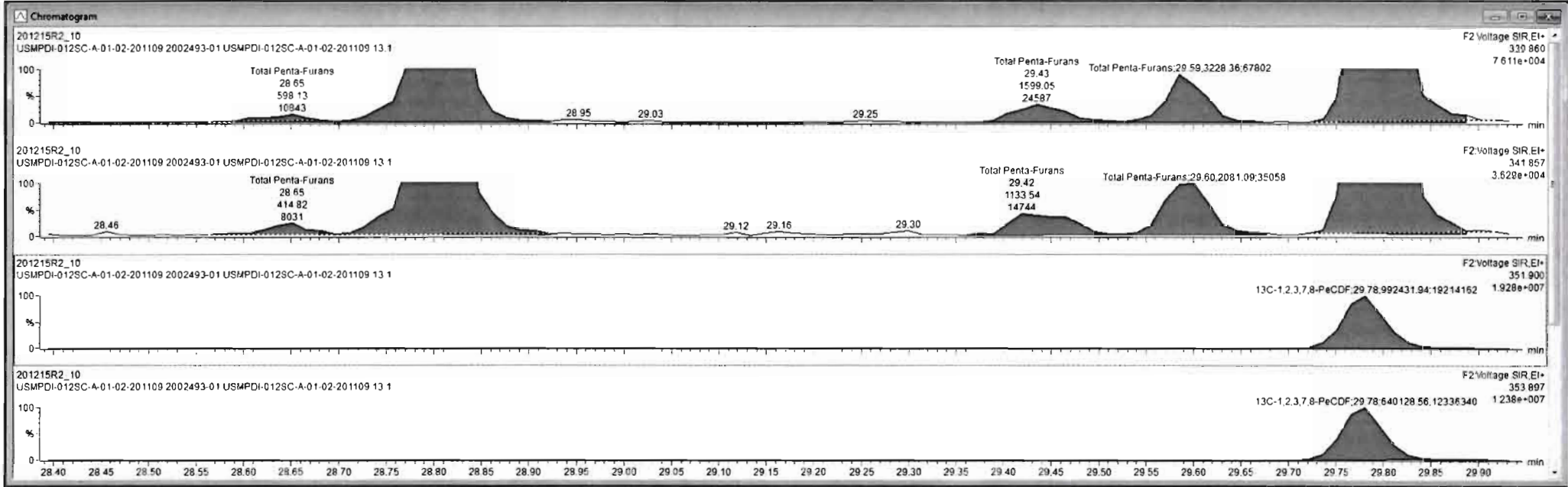
Name	Resp	RA	n/y	RRF	wt-%	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.366			9.64		0.0431	9.84
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			14.2		0.0468	14.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.65	5.981e2	4.146e2	1.44	NO	0.12785	0.12785
2 Total Penta-Furans	28.80	1.516e4	9.585e3	1.58	NO	3.1235	3.1235
3 Total Penta-Furans	29.43	1.599e3	1.134e3	1.41	NO	0.34490	0.34490
4 Total Penta-Furans	29.59	3.228e3	2.081e3	1.55	NO	0.67013	0.67013
5 1,2,3,7,8-PeCDF	29.80	2.517e4	1.600e4	1.57	NO	5.0701	5.0701
6 Total Penta-Furans	30.05	7.982e3	5.085e3	1.57	NO	1.6493	1.6493
7 2,3,4,7,8-PeCDF	30.85	1.593e4	1.066e4	1.49	NO	3.0960	3.0960
8 Total Penta-Furans	31.77	7.078e2	5.089e2	1.39	NO	0.15357	0.15357



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.366			9.64		0.0431	9.64
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			14.2		0.0460	14.2

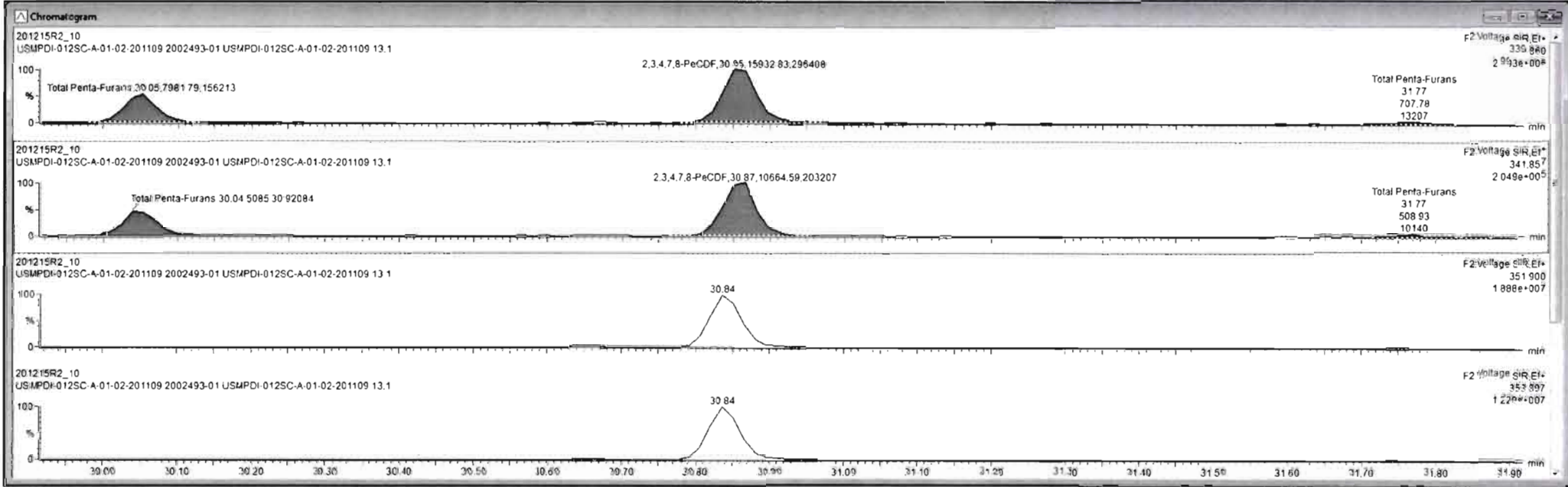
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.65	5.981e2	4.148e2	1.44	NO	0.12785	0.12785
2 Total Penta-Furans	28.80	1.516e4	9.585e3	1.58	NO	3.1235	3.1235
3 Total Penta-Furans	29.43	1.599e3	1.134e3	1.41	NO	0.34490	0.34490
4 Total Penta-Furans	29.59	3.228e3	2.081e3	1.55	NO	0.67013	0.67013
5 1,2,3,7,8-PeCDF	29.80	2.517e4	1.600e4	1.57	NO	5.0701	5.0701
6 Total Penta-Furans	30.05	7.982e3	5.085e3	1.57	NO	1.6493	1.6493
7 2,3,4,7,8-PeCDF	30.85	1.593e4	1.066e4	1.49	NO	3.0960	3.0960
8 Total Penta-Furans	31.77	7.078e2	5.089e2	1.39	NO	0.15357	0.15357



Ready

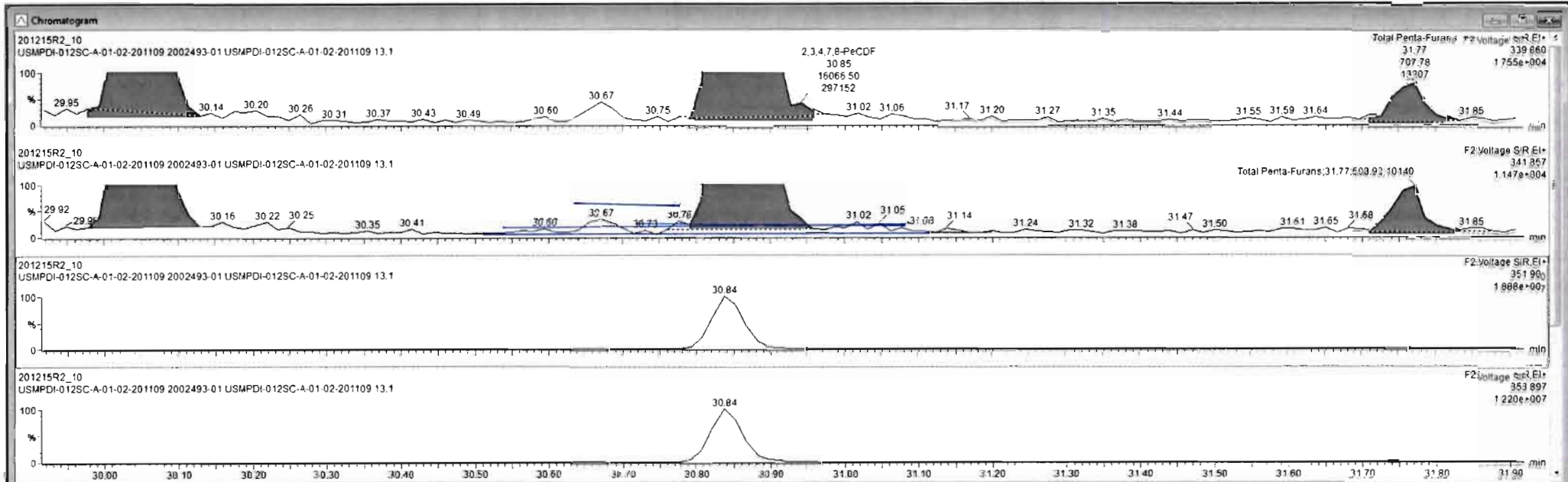
Name	Resp	RA	n/y	RRF	Wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.366			9.64		0.0431	9.84
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			14.2		0.0480	14.2

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.85	5.981e2	4.148e2	1.44	NO	0.12785	0.12785
2 Total Penta-Furans	28.80	1.516e4	9.585e3	1.58	NO	3.1235	3.1235
3 Total Penta-Furans	29.43	1.599e3	1.134e3	1.41	NO	0.34490	0.34490
4 Total Penta-Furans	29.59	3.228e3	2.081e3	1.55	NO	0.67013	0.67013
5 1,2,3,7,8-PeCDF	29.80	2.517e4	1.600e4	1.57	NO	5.0701	5.0701
6 Total Penta-Furans	30.05	7.982e3	5.085e3	1.57	NO	1.6493	1.6493
7 2,3,4,7,8-PeCDF	30.85	1.593e4	1.056e4	1.49	NO	3.0960	3.0960
8 Total Penta-Furans	31.77	7.078e2	5.089e2	1.39	NO	0.15357	0.15357



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.366			9.64	0.0431	9.64	
44 1st Func. Penta-Furans				0.9597	10.366			1.33	0.0105	1.33	
45 Total Penta-Furans				0.9597	10.366			14.3	0.0460	14.3	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.65	5.951e2	4.148e2	1.44	NO	0.12785	0.12785
2 Total Penta-Furans	28.80	1.516e4	9.585e3	1.58	NO	3.1235	3.1235
3 Total Penta-Furans	29.43	1.599e3	1.134e3	1.41	NO	0.34490	0.34490
4 Total Penta-Furans	29.59	3.228e3	2.081e3	1.55	NO	0.67013	0.67013
5 1,2,3,7,8-PeCDF	29.80	2.517e4	1.800e4	1.57	NO	5.0701	5.0701
6 Total Penta-Furans	30.05	7.982e3	5.085e3	1.57	NO	1.6493	1.6493
7 2,3,4,7,8-PeCDF	30.85	1.607e4	1.066e4	1.51	NO	3.1116	3.1116
8 Total Penta-Furans	31.77	7.078e2	5.089e2	1.39	NO	0.15357	0.15357



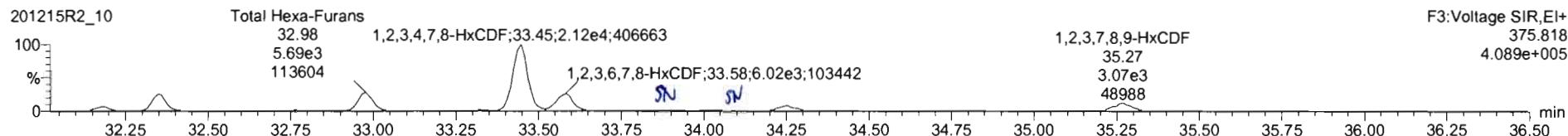
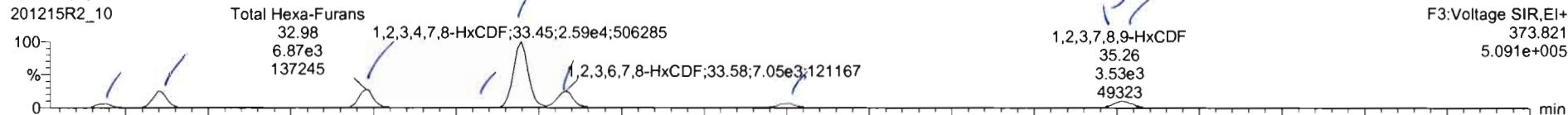
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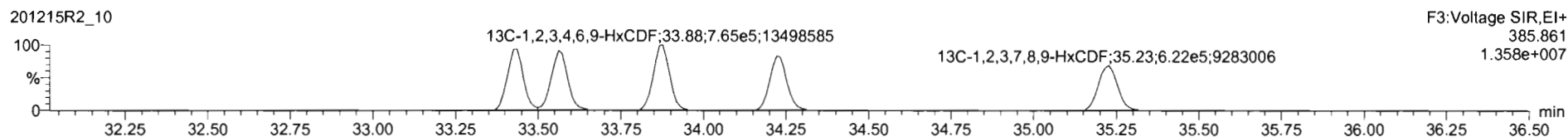
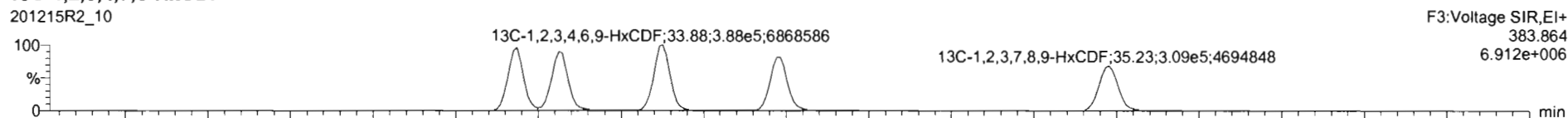
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Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

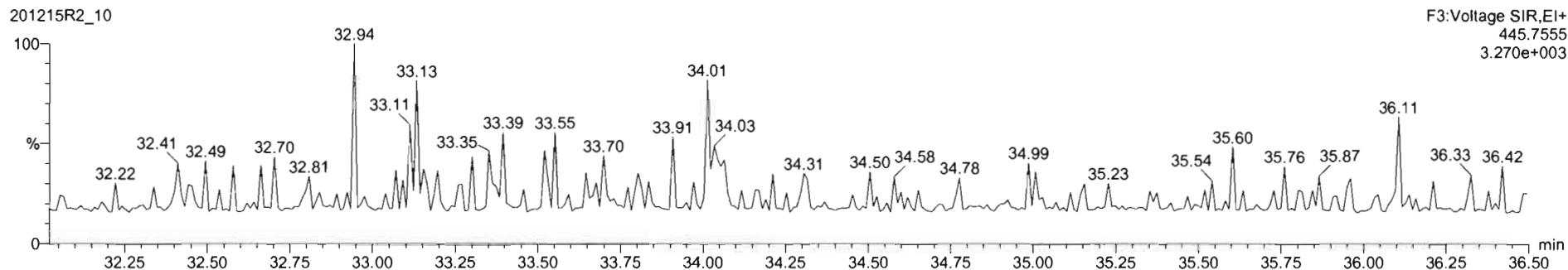
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13C-1,2,3,4,7,8-HxCDF

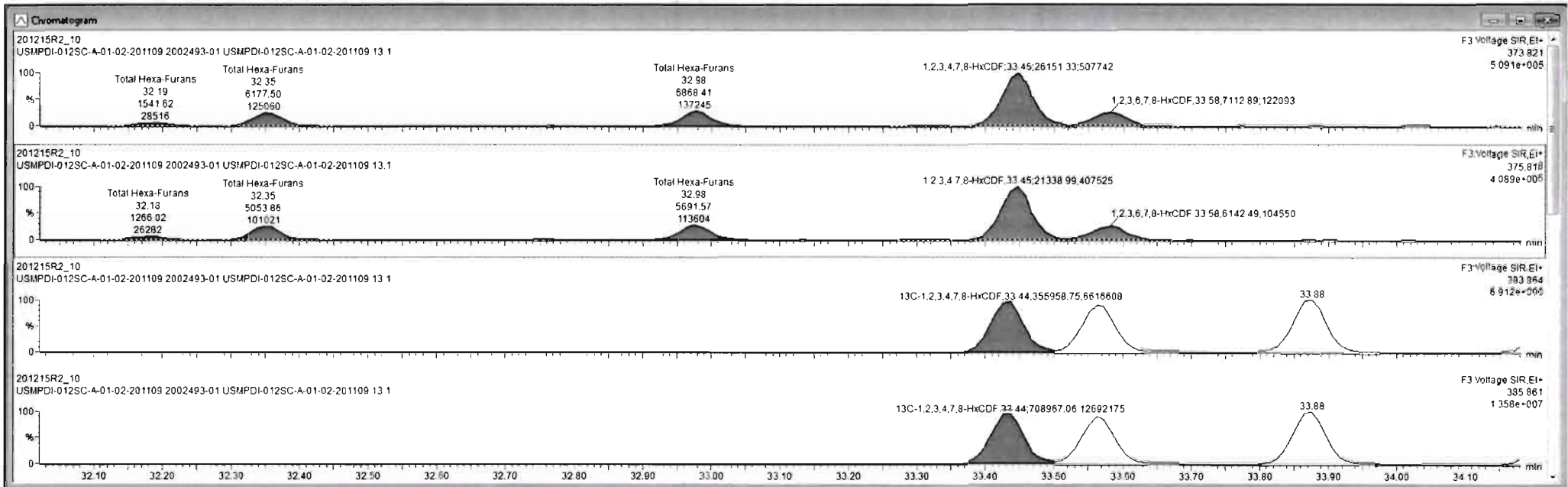


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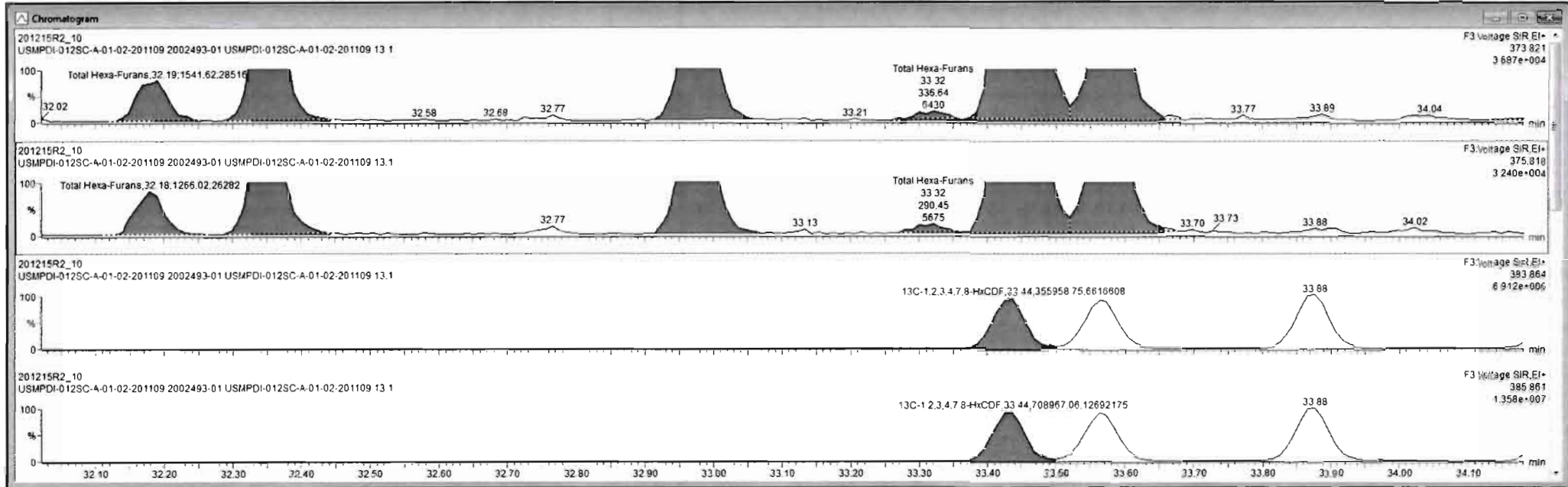
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans			0.8480	10.366			9.54	0.0431	9.64	
44	1st Func. Penta-Furans			0.9597	10.366			1.33	0.0105	1.33	
45	Total Penta-Furans			0.9597	10.366			14.3	0.0460	14.3	
46	Total Hexa-Furans			1.0202	10.366			18.3	0.0633	18.3	
47	Total Hepta-Furans			1.0492	10.366			17.6	0.133	17.6	

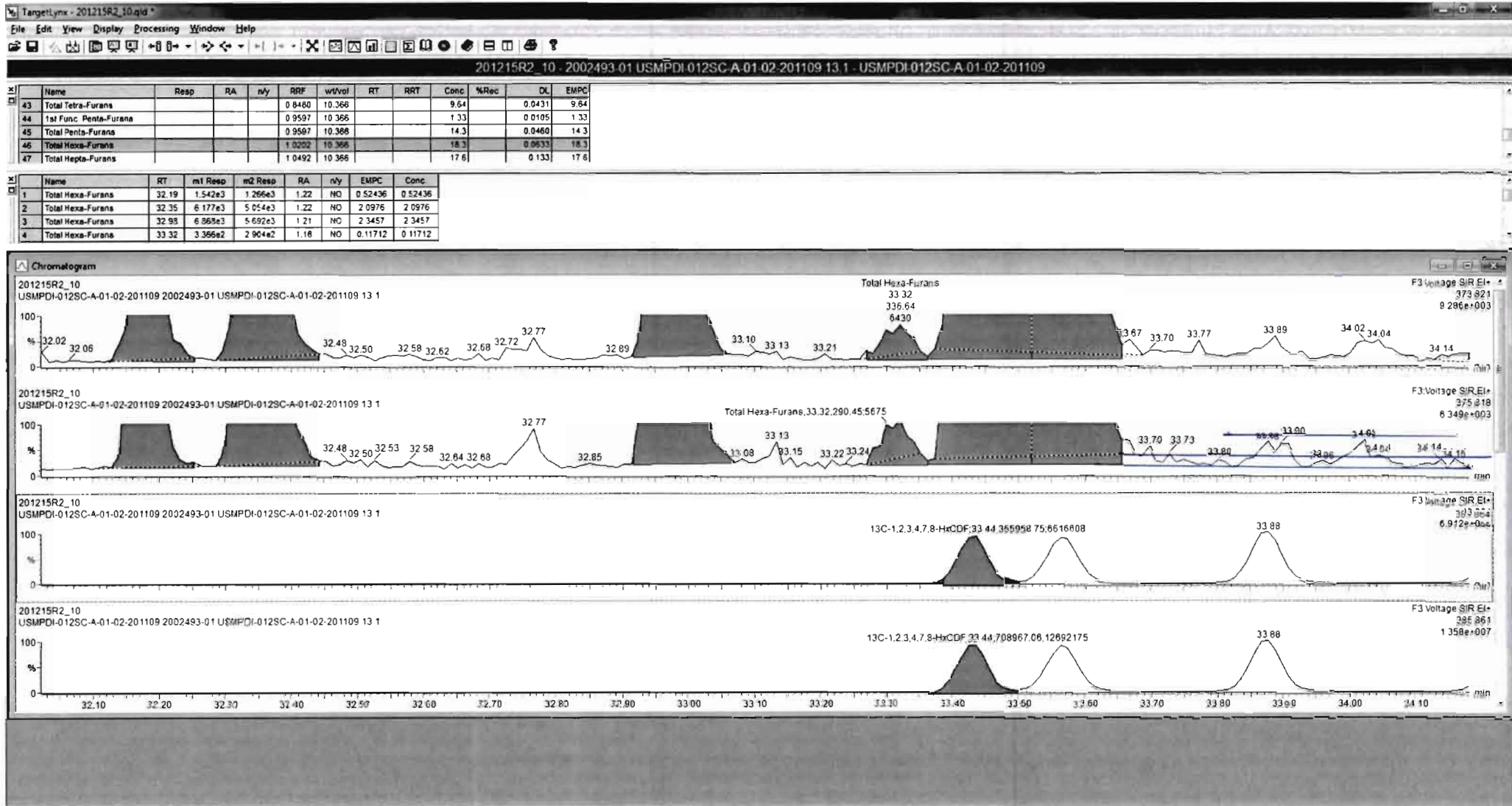
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.19	1.542e3	1.266e3	1.22	NO	0.52436
2	Total Hexa-Furans	32.35	6.177e3	5.054e3	1.22	NO	2.0976
3	Total Hexa-Furans	32.98	6.268e3	5.692e3	1.21	NO	2.3457
4	Total Hexa-Furans	33.32	3.366e2	2.904e2	1.16	NO	0.11712



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans			0.8480	10.366			9.64	0.0431	9.64	
44	1st Func. Penta-Furans			0.9597	10.366			1.33	0.0195	1.33	
45	Total Penta-Furans			0.9597	10.366			14.3	0.0460	14.3	
46	Total Hexa-Furans			1.0202	10.366			18.3	0.0633	18.3	
47	Total Hepta-Furans			1.0492	10.366			17.6	0.133	17.6	

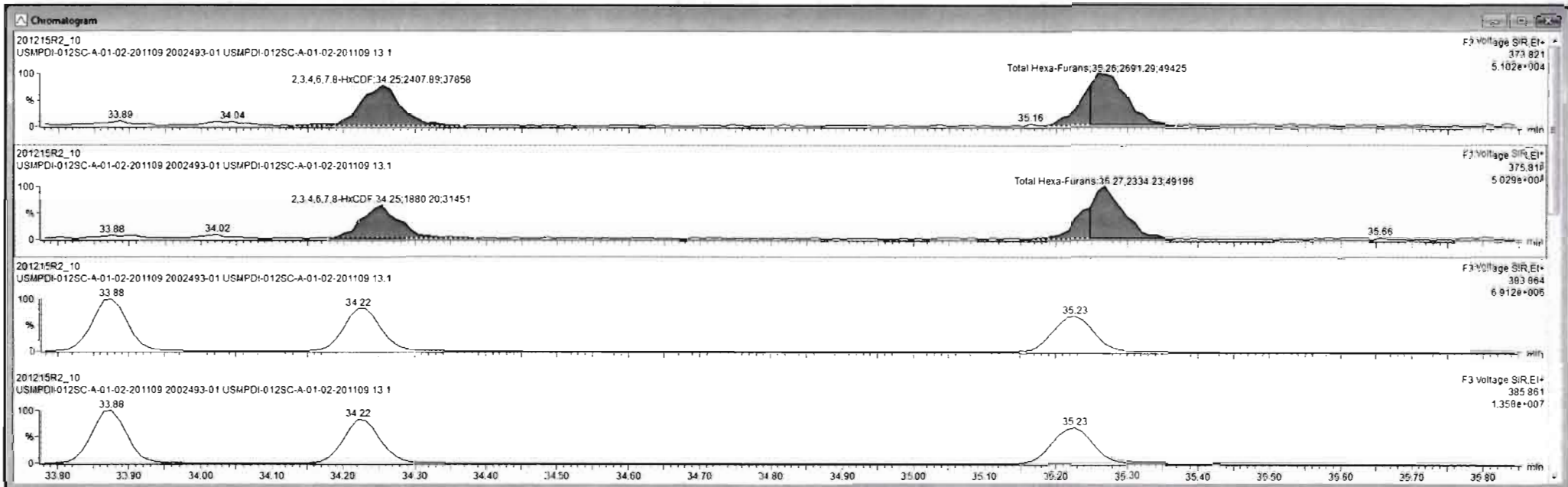
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Hexa-Furans	32.19	1.542e3	1.266e3	1.22	NO	0.52436	0.52436
2	Total Hexa-Furans	32.35	6.177e3	5.054e3	1.22	NO	2.0976	2.0976
3	Total Hexa-Furans	32.98	6.863e3	5.692e3	1.21	NO	2.3457	2.3457
4	Total Hexa-Furane	33.32	3.366e2	2.904e2	1.18	NO	0.11712	0.11712





Name	Resp	RA	n/y	RRF	w/wal	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8450	10.366			9.64		0.0431	9.64
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			14.3		0.0460	14.3
46 Total Hexa-Furans				1.0202	10.366			18.2		0.0633	18.2
47 Total Hepta-Furans				1.0492	10.366			17.6		0.133	17.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	1.542e3	1.266e3	1.22	NO	0.52436	0.52436
2 Total Hexa-Furans	32.35	6.177e3	5.054e3	1.22	NO	2.0976	2.0976
3 Total Hexa-Furans	32.98	6.368e3	5.692e3	1.21	NO	2.3457	2.3457
4 Total Hexa-Furans	33.32	3.356e2	2.904e2	1.16	NO	0.11712	0.11712



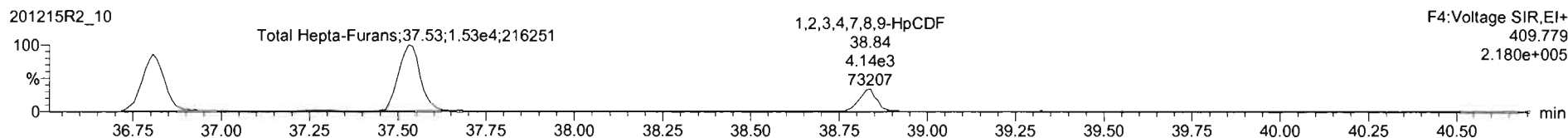
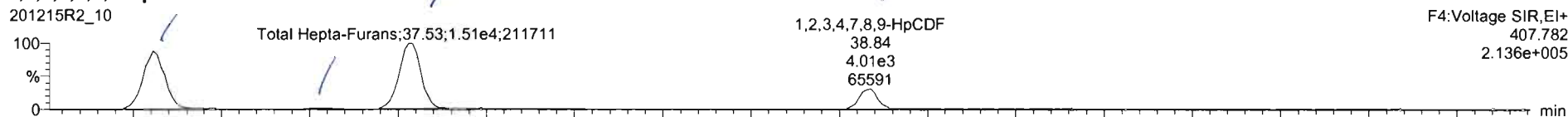
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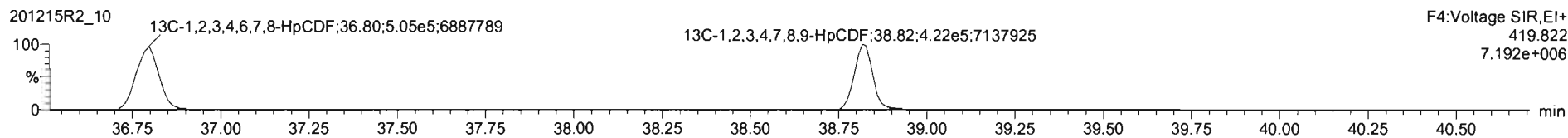
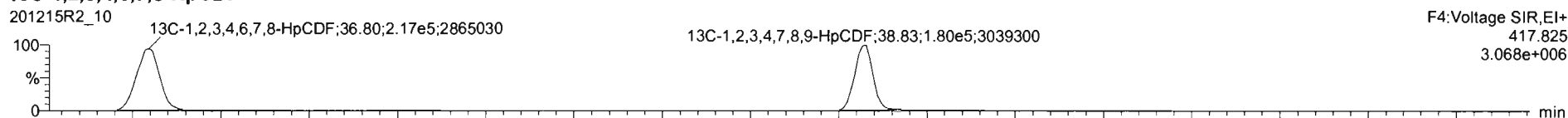
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Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109

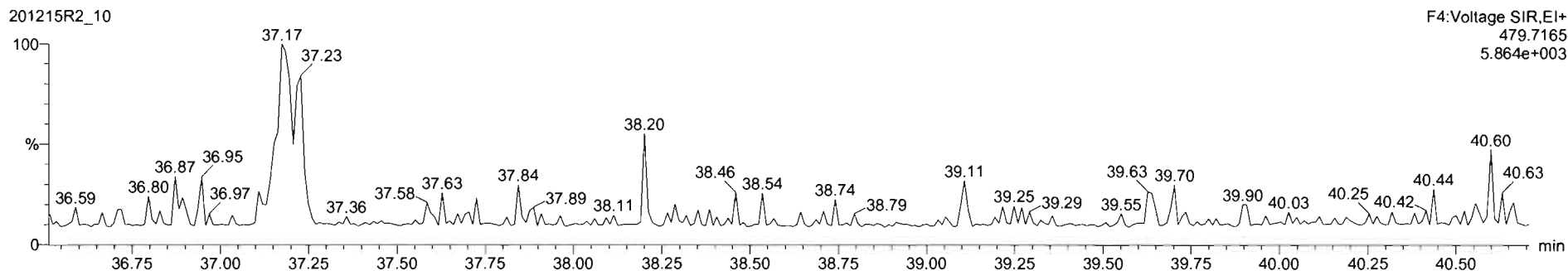
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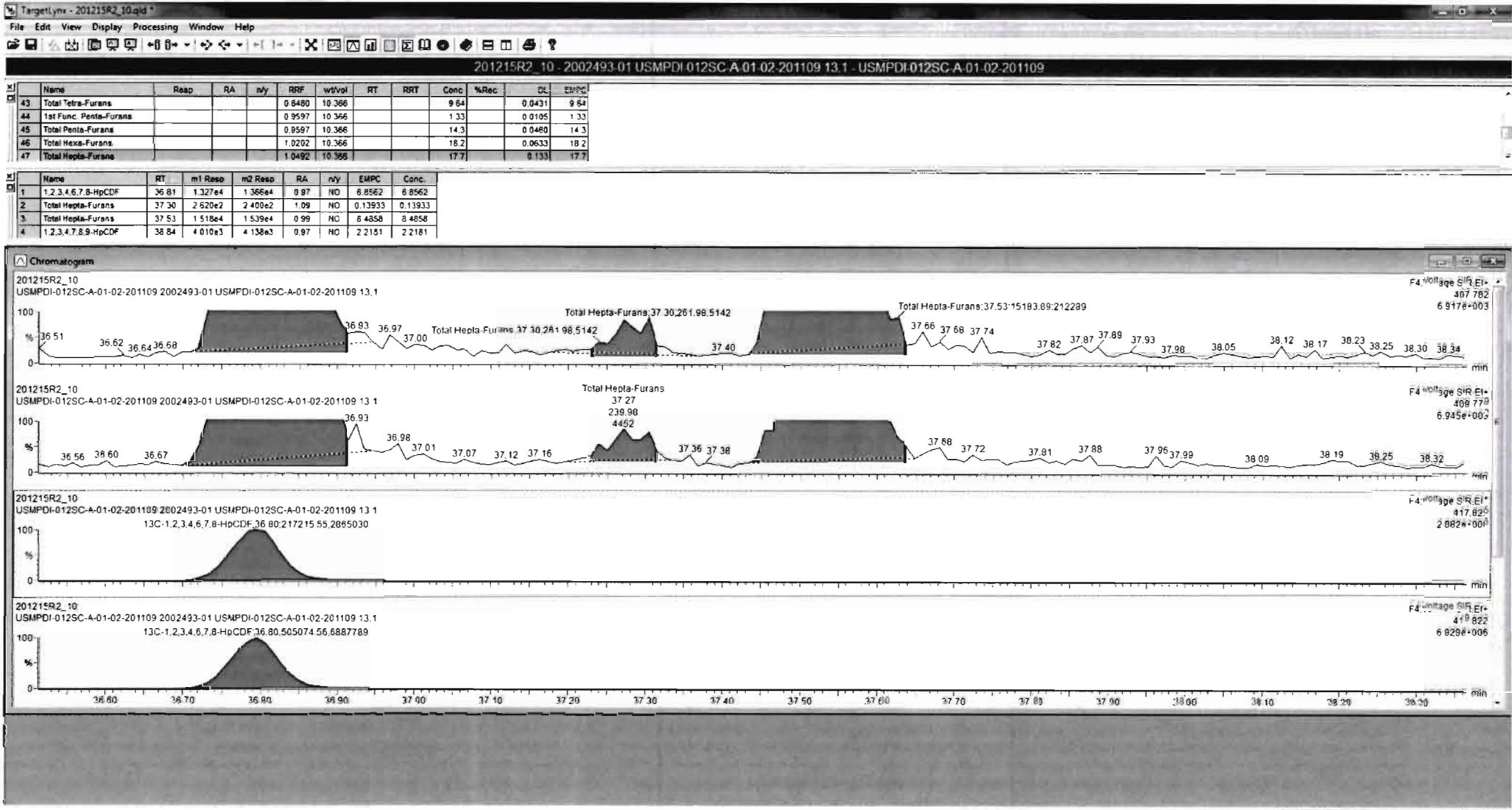


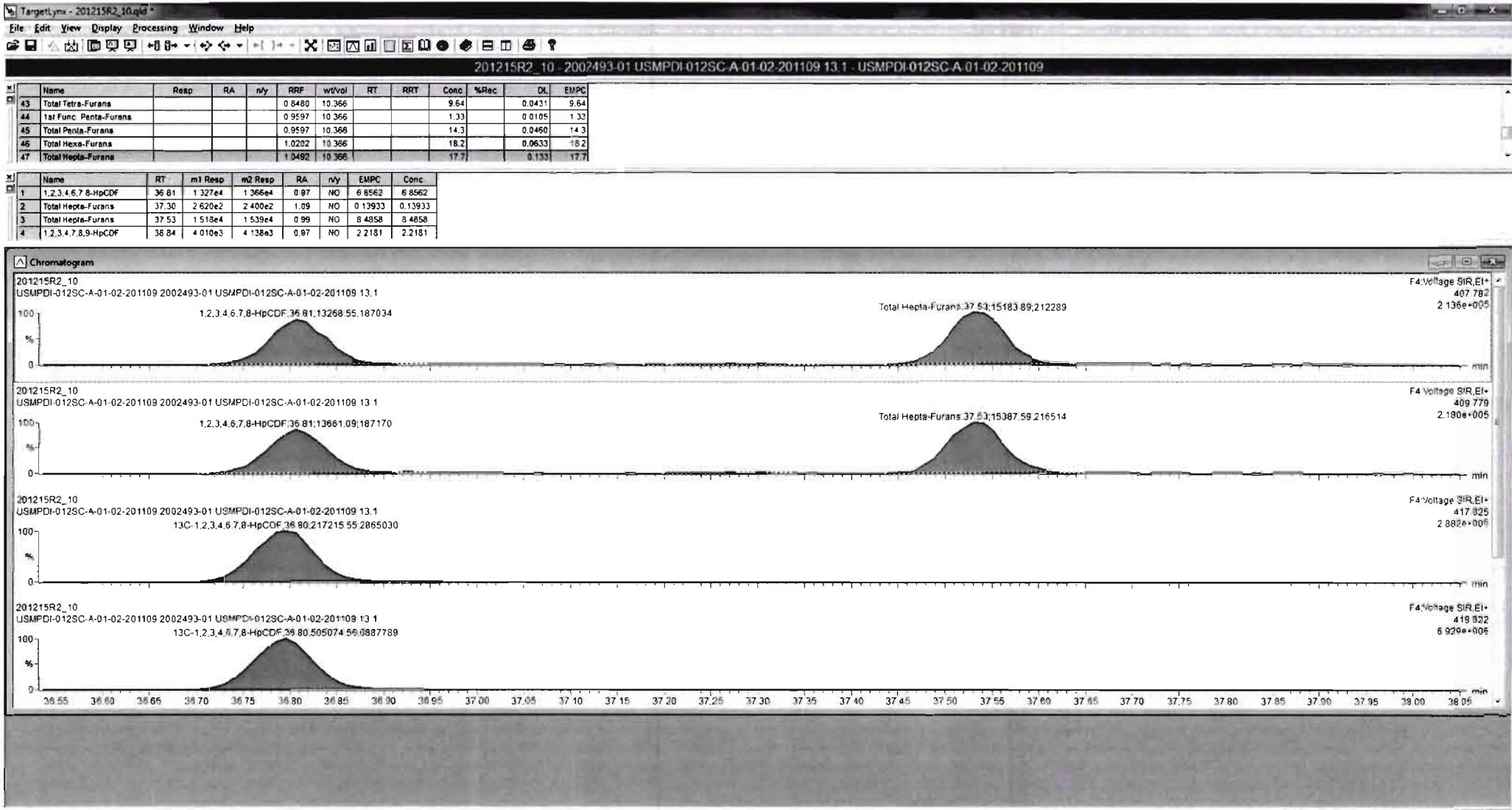
13C-1,2,3,4,6,7,8-HpCDF



DPE4







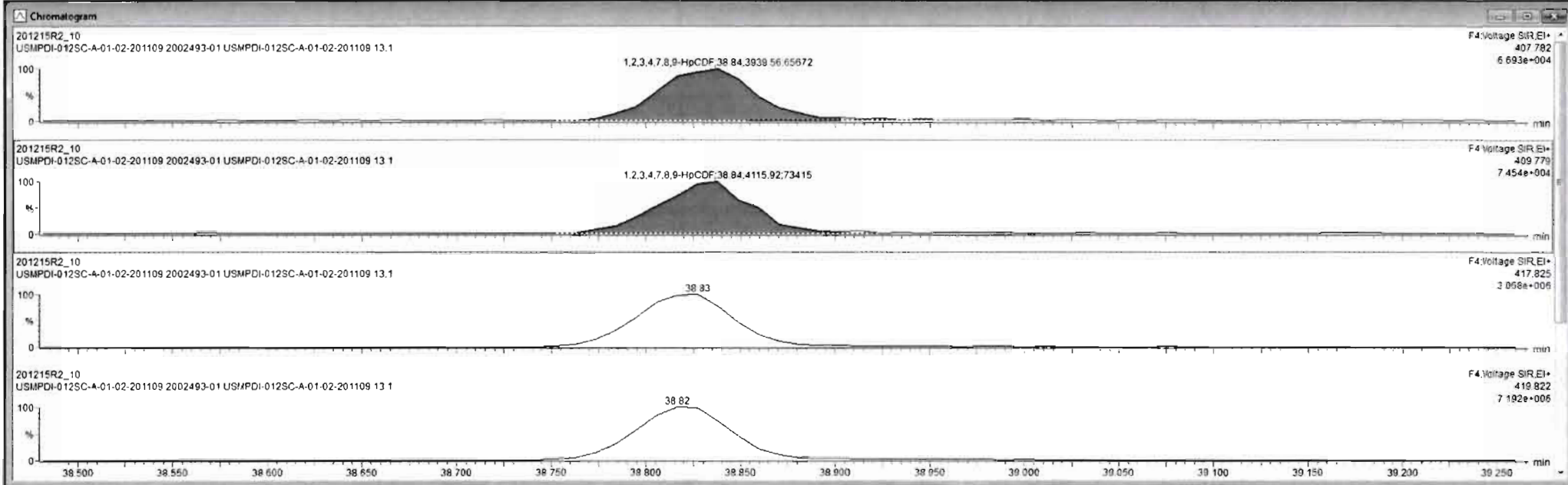
Ready

201215R2_10

CAP NUM

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.366			9.64		0.0431	9.64
44 1st Func. Penta-Furans				0.9597	10.366			1.33		0.0105	1.33
45 Total Penta-Furans				0.9597	10.366			14.3		0.0460	14.3
46 Total Hexa-Furans				1.0202	10.366			18.2		0.0633	18.2
47 Total Hepta-Furans				1.0492	10.366			17.7		0.133	17.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.81	1.327e4	1.366e4	0.97	NO	6.8562	6.8562
2 Total Hepta-Furans	37.30	2.620e2	2.406e2	1.09	NO	0.13933	0.13933
3 Total Hepta-Furans	37.53	1.518e4	1.539e4	0.99	NO	8.4858	8.4858
4 1,2,3,4,7,8,9-HpCDF	38.84	3.940e3	4.116e3	0.96	NO	2.1929	2.1929

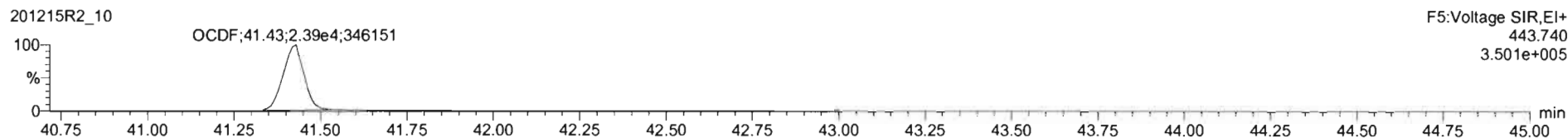
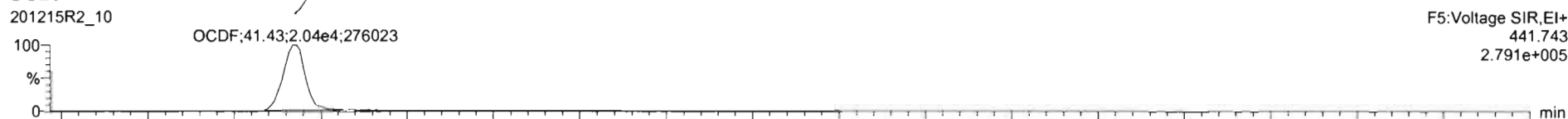


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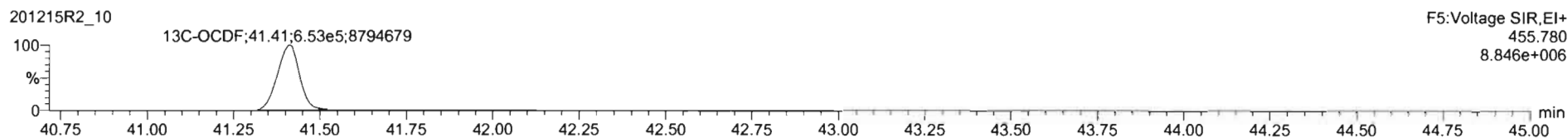
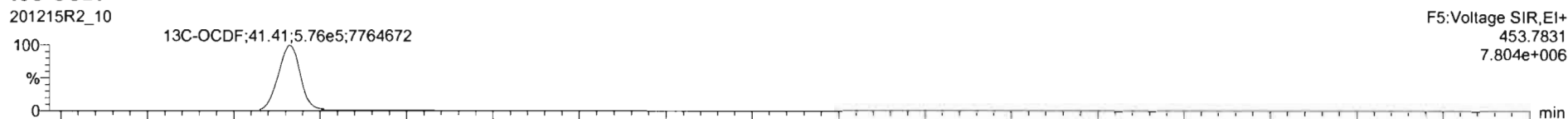
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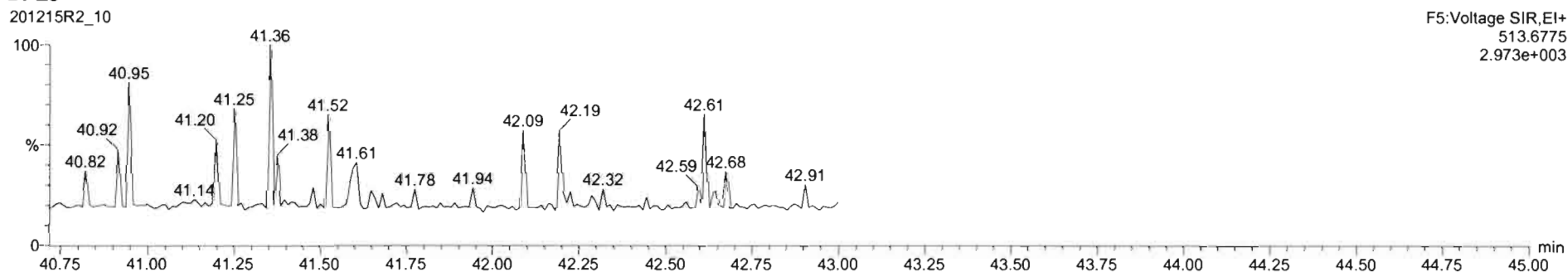
OCDF



13C-OCDF



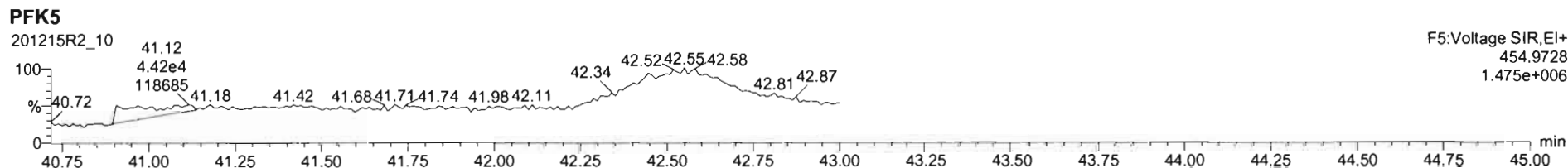
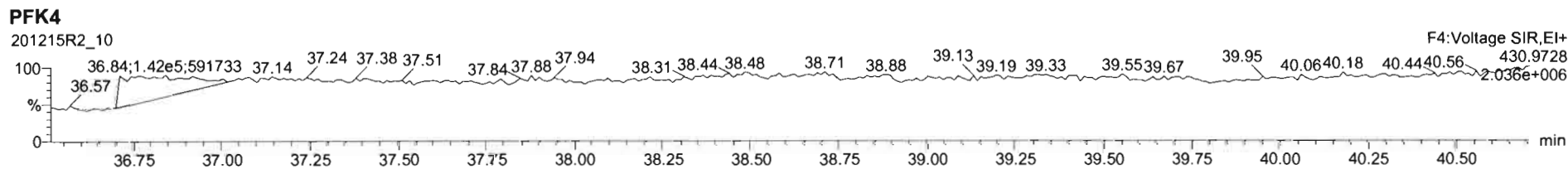
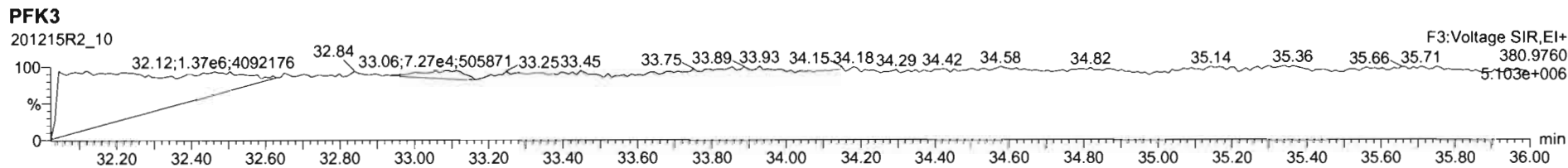
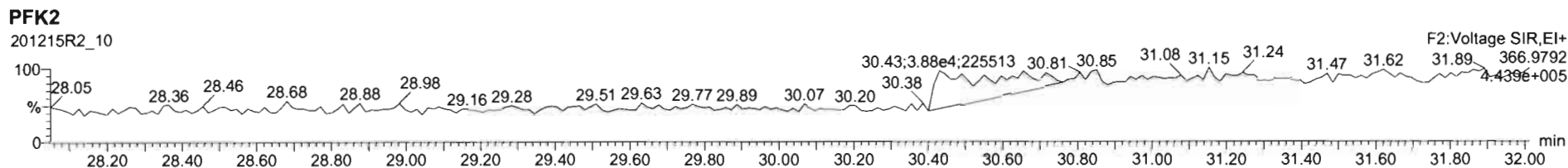
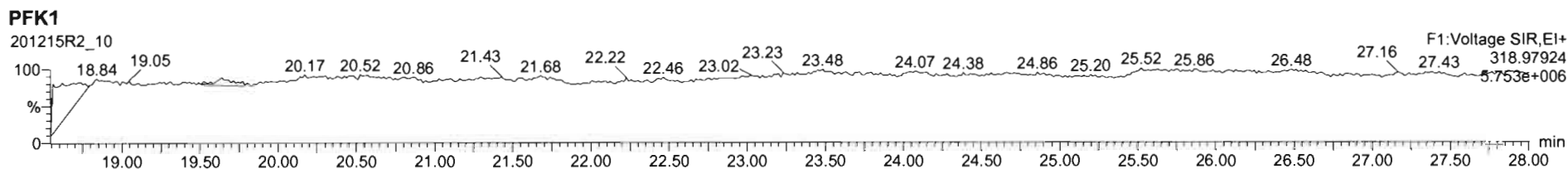
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Name: 201215R2_10, Date: 15-Dec-2020, Time: 23:43:35, ID: 2002493-01 USMPDI-012SC-A-01-02-201109 13.1, Description: USMPDI-012SC-A-01-02-201109



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HN 12/28/2020

CT 12/28/2020

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Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

#	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	7.59e2	0.15	YES	0.980	10.145	26.381	26.36	1.001	1.001	0.13020		0.0208	0.0398
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.145	31.064		1.001				0.0536	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.145	34.368		1.001				0.0625	
4	4 1,2,3,6,7,8-HxCDD	4.45e2	0.88	YES	0.902	10.145	34.483	34.49	1.001	1.001	0.11045		0.0606	0.100
5	5 1,2,3,7,8,9-HxCDD	3.77e2	1.25	NO	0.954	10.145	34.745	34.74	1.000	1.000	0.10164		0.0645	0.102
6	6 1,2,3,4,6,7,8-HpCDD	6.82e3	1.02	NO	0.918	10.145	38.222	38.22	1.000	1.000	2.1905		0.112	2.19
7	7 OCDD	6.01e4	0.87	NO	0.866	10.145	41.134	41.15	1.000	1.001	28.422		0.229	28.4
8	8 2,3,7,8-TCDF	2.19e3	0.85	NO	0.848	10.145	25.672	25.68	1.000	1.001	0.35368		0.0264	0.354
9	9 1,2,3,7,8-PeCDF	2.41e3	1.52	NO	0.960	10.145	29.784	29.80	1.000	1.001	0.38132		0.0224	0.381
10	10 2,3,4,7,8-PeCDF	1.36e3	1.53	NO	1.07	10.145	30.859	30.87	1.001	1.001	0.20908		0.0230	0.209
11	11 1,2,3,4,7,8-HxCDF	3.06e3	1.11	NO	0.986	10.145	33.446	33.45	1.000	1.000	0.71090		0.0465	0.711
12	12 1,2,3,6,7,8-HxCDF	8.00e2	1.02	YES	1.04	10.145	33.582	33.58	1.001	1.001	0.17642		0.0408	0.161
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.145	34.253		1.001				0.0551	
14	14 1,2,3,7,8,9-HxCDF	2.39e2	0.97	YES	0.991	10.145	35.238	35.24	1.000	1.000	0.065543		0.0630	0.0582
15	15 1,2,3,4,6,7,8-HpCDF	2.24e3	1.04	NO	1.05	10.145	36.824	36.82	1.000	1.000	0.70819		0.0529	0.708
16	16 1,2,3,4,7,8,9-HpCDF	5.10e2	0.97	NO	1.18	10.145	38.839	38.84	1.000	1.000	0.16648		0.0446	0.166
17	17 OCDF	3.27e3	0.86	NO	0.896	10.145	41.427	41.43	1.000	1.000	1.4122		0.0774	1.41
18	18 13C-2,3,7,8-TCDD	1.17e6	0.77	NO	1.06	10.145	26.353	26.35	1.030	1.030	221.56	112	0.128	
19	19 13C-1,2,3,7,8-PeCDD	9.08e5	0.62	NO	0.785	10.145	31.192	31.03	1.219	1.213	230.82	117	0.153	
20	20 13C-1,2,3,4,7,8-HxCDD	7.28e5	1.28	NO	0.621	10.145	34.337	34.35	1.014	1.014	268.24	136	0.456	
21	21 13C-1,2,3,6,7,8-HxCDD	8.21e5	1.25	NO	0.734	10.145	34.459	34.46	1.017	1.017	255.77	130	0.385	
22	22 13C-1,2,3,7,8,9-HxCDD	7.67e5	1.24	NO	0.723	10.145	34.743	34.74	1.026	1.025	242.78	123	0.391	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.68e5	1.04	NO	0.568	10.145	38.243	38.21	1.129	1.128	269.14	137	0.792	
24	24 13C-OCDD	9.62e5	0.88	NO	0.496	10.145	41.180	41.13	1.216	1.214	443.81	113	0.608	
25	25 13C-2,3,7,8-TCDF	1.44e6	0.76	NO	0.919	10.145	25.652	25.67	1.003	1.003	222.54	113	0.174	
26	26 13C-1,2,3,7,8-PeCDF	1.30e6	1.57	NO	0.715	10.145	29.903	29.78	1.169	1.164	257.64	131	0.332	
27	27 13C-2,3,4,7,8-PeCDF	1.20e6	1.56	NO	0.689	10.145	30.990	30.84	1.212	1.206	247.18	125	0.345	
28	28 13C-1,2,3,4,7,8-HxCDF	8.61e5	0.50	NO	0.873	10.145	33.442	33.44	0.987	0.987	225.46	114	0.416	
29	29 13C-1,2,3,6,7,8-HxCDF	8.60e5	0.50	NO	0.933	10.145	33.571	33.56	0.991	0.991	210.78	107	0.389	
30	30 13C-2,3,4,6,7,8-HxCDF	7.64e5	0.50	NO	0.843	10.145	34.238	34.23	1.011	1.011	207.35	105	0.431	
31	31 13C-1,2,3,7,8,9-HxCDF	7.27e5	0.49	NO	0.780	10.145	35.238	35.23	1.040	1.040	213.12	108	0.466	

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_11.qld

Last Altered: Monday, December 28, 2020 13:24:23 Pacific Standard Time

Printed: Monday, December 28, 2020 13:26:01 Pacific Standard Time

Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

#	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	5.94e5	0.42	NO	0.726	10.145	36.813	36.81	1.087	1.086	186.88	94.8	0.549	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.13e5	0.43	NO	0.491	10.145	38.822	38.83	1.146	1.146	238.94	121	0.812	
34	34 13C-OCDF	1.02e6	0.88	NO	0.565	10.145	41.396	41.42	1.222	1.223	411.87	104	0.573	
35	35 37Cl-2,3,7,8-TCDD	5.14e5			1.22	10.145	26.347	26.38	1.030	1.031	84.258	107	0.0302	
36	36 13C-1,2,3,4-TCDD	9.88e5	0.78	NO	1.00	10.145	25.640	25.58	1.000	1.000	197.13	100	0.135	
37	37 13C-1,2,3,4-TCDF	1.39e6	0.78	NO	1.00	10.145	24.130	24.09	1.000	1.000	197.13	100	0.160	
38	38 13C-1,2,3,4,6,9-HxCDF	8.62e5	0.51	NO	1.00	10.145	33.920	33.88	1.000	1.000	197.13	100	0.363	
39	39 Total Tetra-Dioxins				0.980	10.145	24.620		0.000		0.12895		0.0258	0.212
40	40 Total Penta-Dioxins				0.932	10.145	29.960		0.000		0.00000		0.0175	0.0973
41	41 Total Hexa-Dioxins				0.902	10.145	33.635		0.000		1.6373		0.0663	1.74
42	42 Total Hepta-Dioxins				0.918	10.145	37.640		0.000		5.3025		0.112	5.30
43	43 Total Tetra-Furans				0.848	10.145	23.610		0.000		0.49140		0.0264	0.890
44	44 1st Func. Penta-Furans				0.960	10.145	26.930		0.000		0.17308		0.0115	0.173
45	45 Total Penta-Furans				0.960	10.145	29.275		0.000		1.0525		0.0239	1.05
46	46 Total Hexa-Furans				1.02	10.145	33.555		0.000		1.0800		0.0518	1.48
47	47 Total Hepta-Furans				1.05	10.145	37.835		0.000		1.7096		0.0516	1.71

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_11.qld

Last Altered: Monday, December 28, 2020 13:24:23 Pacific Standard Time
 Printed: Monday, December 28, 2020 13:26:01 Pacific Standard Time

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Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.28	5.446e3	7.043e3	3.230e2	4.286e2	0.75	NO	7.516e2	0.12895	0.12895	0.0258
2	Total Tetra-Dioxins	25.68	3.985e3	2.711e3	2.852e2	1.417e2	2.01	YES	0.000e0	0.00000	0.043029	0.0258
3	2,3,7,8-TCDD	26.36	1.967e3	1.103e4	1.010e2	6.579e2	0.15	YES	7.589e2	0.00000	0.039839	0.0258

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.28	4.613e3	4.925e3	2.170e2	2.561e2	0.85	YES	0.000e0	0.00000	0.097288	0.0536

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.71	3.317e4	2.801e4	1.796e3	1.505e3	1.19	NO	3.301e3	0.93381	0.93381	0.0663
2	Total Hexa-Dioxins	33.60	1.659e4	1.330e4	1.246e3	8.813e2	1.41	NO	2.127e3	0.60181	0.60181	0.0663
3	1,2,3,6,7,8-HxCDD	34.49	4.837e3	4.483e3	2.089e2	2.363e2	0.88	YES	4.452e2	0.00000	0.10042	0.0606
4	1,2,3,7,8,9-HxCDD	34.74	3.960e3	3.548e3	2.098e2	1.677e2	1.25	NO	3.774e2	0.10164	0.10164	0.0645

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.19	6.399e4	6.779e4	4.844e3	4.841e3	1.00	NO	9.684e3	3.1120	3.1120	0.112
2	1,2,3,4,6,7,8-HpCDD	38.22	5.135e4	5.059e4	3.443e3	3.373e3	1.02	NO	6.816e3	2.1905	2.1905	0.112

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_11.qld

Last Altered: Monday, December 28, 2020 13:24:23 Pacific Standard Time

Printed: Monday, December 28, 2020 13:26:01 Pacific Standard Time

Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	22.59	4.195e3	3.624e3	3.473e2	3.342e2	1.04	YES	0.000e0	0.00000	0.095356	0.0264
2	Total Tetra-Furans	24.20	3.810e3	4.637e3	3.587e2	4.956e2	0.72	NO	8.543e2	0.13771	0.13771	0.0264
3	Total Tetra-Furans	24.66	9.418e3	1.605e4	6.163e2	1.041e3	0.59	YES	0.000e0	0.00000	0.22839	0.0264
4	Total Tetra-Furans	25.55	3.986e3	4.506e3	2.544e2	2.613e2	0.97	YES	0.000e0	0.00000	0.074543	0.0264
5	2,3,7,8-TCDF	25.68	1.396e4	1.738e4	1.010e3	1.184e3	0.85	NO	2.194e3	0.35368	0.35368	0.0264

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	27.18	1.193e4	6.409e3	6.340e2	4.188e2	1.51	NO	1.053e3	0.17308	0.17308	0.0115

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.82	1.632e4	1.033e4	1.201e3	8.463e2	1.42	NO	2.047e3	0.33650	0.33650	0.0239
2	1,2,3,7,8-PeCDF	29.80	2.838e4	2.267e4	1.455e3	9.569e2	1.52	NO	2.412e3	0.38132	0.38132	0.0224
3	Total Penta-Furans	30.04	9.275e3	5.326e3	4.430e2	3.210e2	1.38	NO	7.641e2	0.12561	0.12561	0.0239
4	2,3,4,7,8-PeCDF	30.87	1.846e4	9.927e3	8.209e2	5.373e2	1.53	NO	1.358e3	0.20908	0.20908	0.0230

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.18	3.465e3	4.324e3	1.545e2	1.399e2	1.10	NO	2.943e2	0.070808	0.070808	0.0518
2	Total Hexa-Furans	32.36	9.779e3	7.917e3	4.275e2	4.118e2	1.04	YES	0.000e0	0.00000	0.18578	0.0518
3	Total Hexa-Furans	32.98	8.750e3	7.780e3	5.034e2	4.587e2	1.10	NO	9.621e2	0.23145	0.23145	0.0518
4	1,2,3,4,7,8-HxCDF	33.45	2.747e4	2.741e4	1.613e3	1.449e3	1.11	NO	3.062e3	0.71090	0.71090	0.0465
5	1,2,3,6,7,8-HxCDF	33.58	7.099e3	5.530e3	4.040e2	3.959e2	1.02	YES	7.999e2	0.00000	0.16096	0.0468
6	1,2,3,7,8,9-HxCDF	35.24	3.703e3	3.063e3	1.177e2	1.218e2	0.97	YES	2.395e2	0.00000	0.058187	0.0630
7	Total Hexa-Furans	35.27	3.271e3	3.386e3	1.460e2	1.319e2	1.11	NO	2.779e2	0.066845	0.066845	0.0518

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_11.qld

Last Altered: Monday, December 28, 2020 13:24:23 Pacific Standard Time

Printed: Monday, December 28, 2020 13:26:01 Pacific Standard Time

Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

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	36.82	1.507e4	1.512e4	1.141e3	1.096e3	1.04	NO	2.238e3	0.70819	0.70819	0.0529
2	Total Hepta-Furans	37.54	1.858e4	1.564e4	1.273e3	1.186e3	1.07	NO	2.459e3	0.83494	0.83494	0.0516
3	1,2,3,4,7,8,9-HpCDF	38.84	4.550e3	5.409e3	2.507e2	2.589e2	0.97	NO	5.096e2	0.16648	0.16648	0.0446

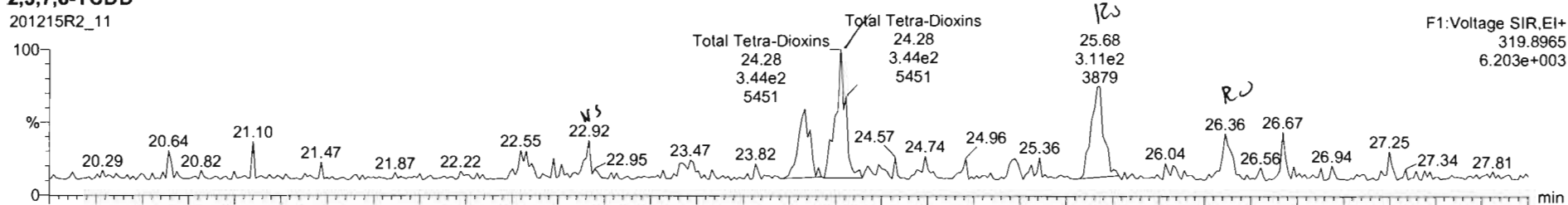
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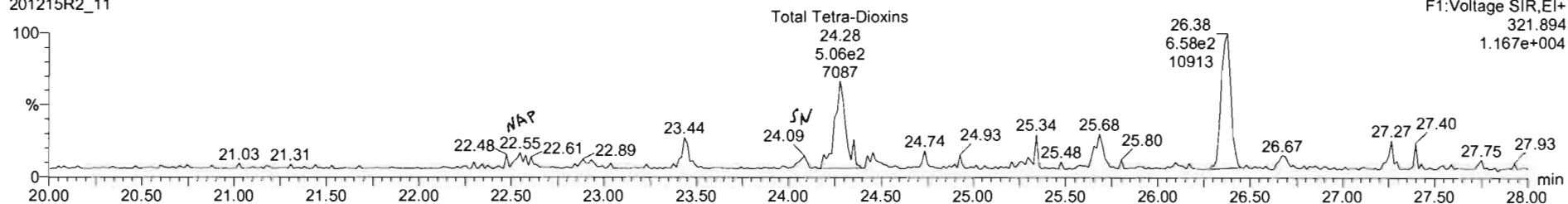
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2,3,7,8-TCDD

201215R2_11

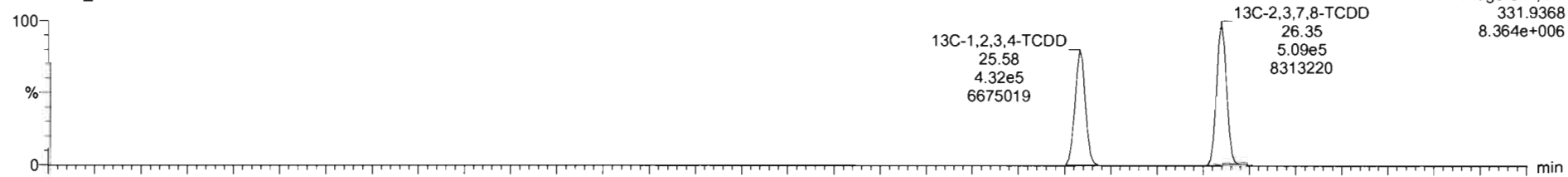


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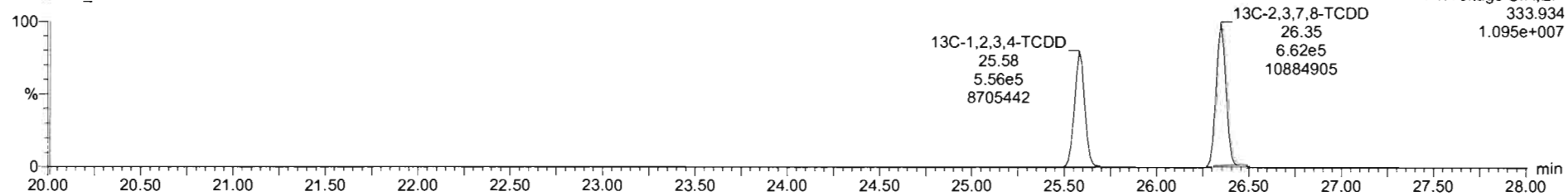


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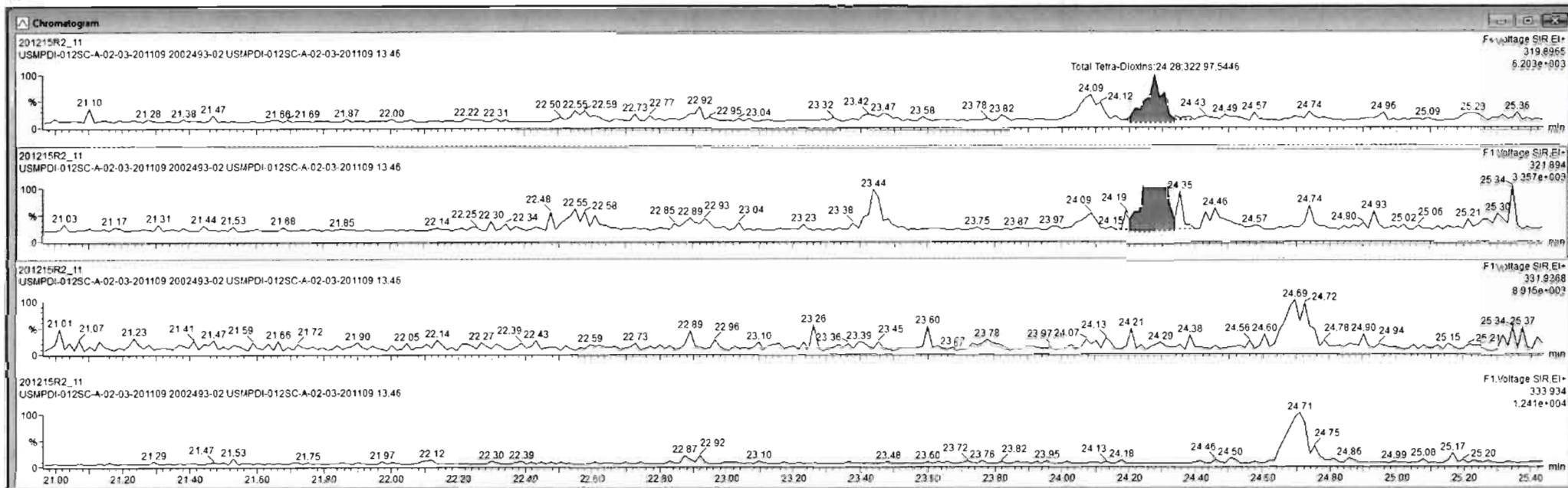


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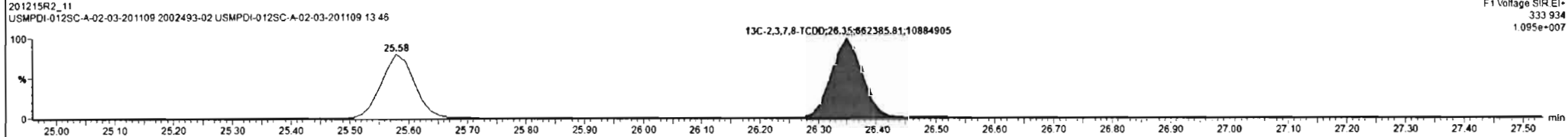
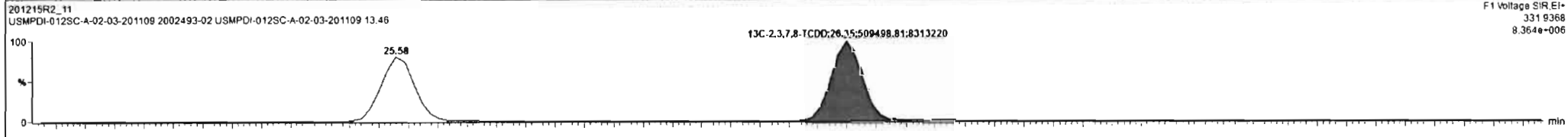
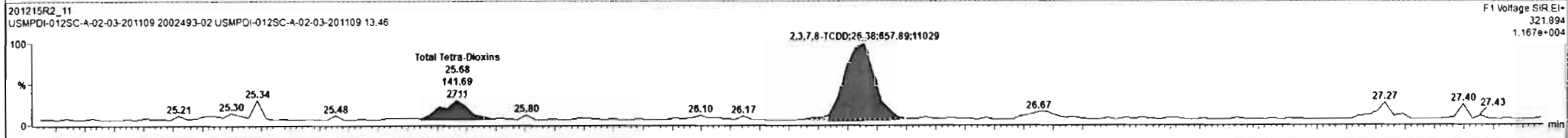
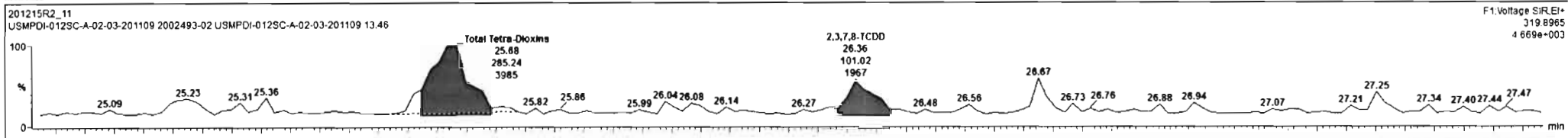


Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9605	10.145			0.129		0.0258	0.208
40 Total Penta-Dioxins				0.9320	10.145			0.117		0.0536	0.304
41 Total Hexa-Dioxins				0.9025	10.145			1.63		0.0663	1.73
42 Total Hepta-Dioxins				0.9180	10.145			5.26		0.112	5.26
43 Total Tetra-Furans				0.8480	10.145			0.496		0.0264	0.905
44 1st Func. Penta-Furans				0.9597	10.145			0.173		0.0115	0.173
45 Total Denta-Furans				0.9407	10.145			1.03		0.0738	1.10

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	24.28	3.230e2	4.286e2	0.75	NO	0.12895	0.12895
2 Total Tetra-Dioxins	25.68	2.852e2	1.417e2	2.01	YES	0.043029	0.00000
3 2,3,7,8-TCDD	26.36	9.023e1	6.144e2	0.15	YES	0.035586	0.00000

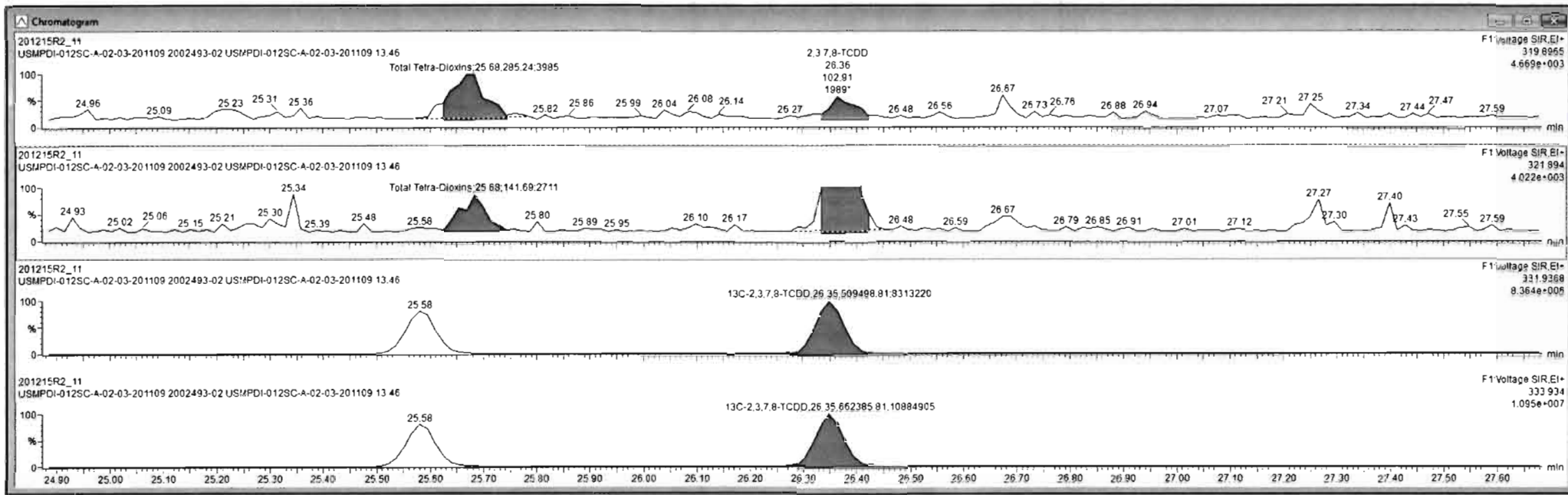


Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9805	10.145			0.129	0.0258	0.212	
40 Total Penta-Dioxins				0.9320	10.145			0.000	0.0175	0.0914	
41 Total Hexa-Dioxins				0.9025	10.145			1.64	0.0663	1.74	
42 Total Hepta-Dioxins				0.9180	10.145			5.30	0.112	5.30	
43 Total Tetra-Furans				0.8450	10.145			0.491	0.0264	0.890	
44 1st Func. Penta-Furans				0.9597	10.145			0.173	0.0115	0.173	
45 Total Penta-Furans				0.9597	10.145			1.05	0.0239	1.05	
46 Total Hexa-Furans				1.0202	10.145			1.08	0.0518	1.50	
47 Total Hepta-Furans				1.0492	10.145			1.71	0.0516	1.71	
48 PFK1											
49 PFK2											
50 PFK3											



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9605	10.145			0.129		0.0258	0.208
40 Total Penta-Dioxins				0.9320	10.145			0.117		0.0536	0.304
41 Total Hexa-Dioxins				0.9025	10.145			1.83		0.0663	1.73
42 Total Hepta-Dioxins				0.9180	10.145			5.26		0.112	5.26
43 Total Tetra-Furans				0.8490	10.145			0.496		0.0264	0.905
44 1st Func. Penta-Furans				0.9597	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.9697	10.145			1.03		0.0238	1.10

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	24.28	3.230e2	4.296e2	0.75	NO	0.12895	0.12895
2 Total Tetra-Dioxins	25.68	2.852e2	1.417e2	2.01	YES	0.043029	0.00000
3 2,3,7,8-TCDD	26.36	9.023e1	6.144e2	0.15	YES	0.035586	0.00000



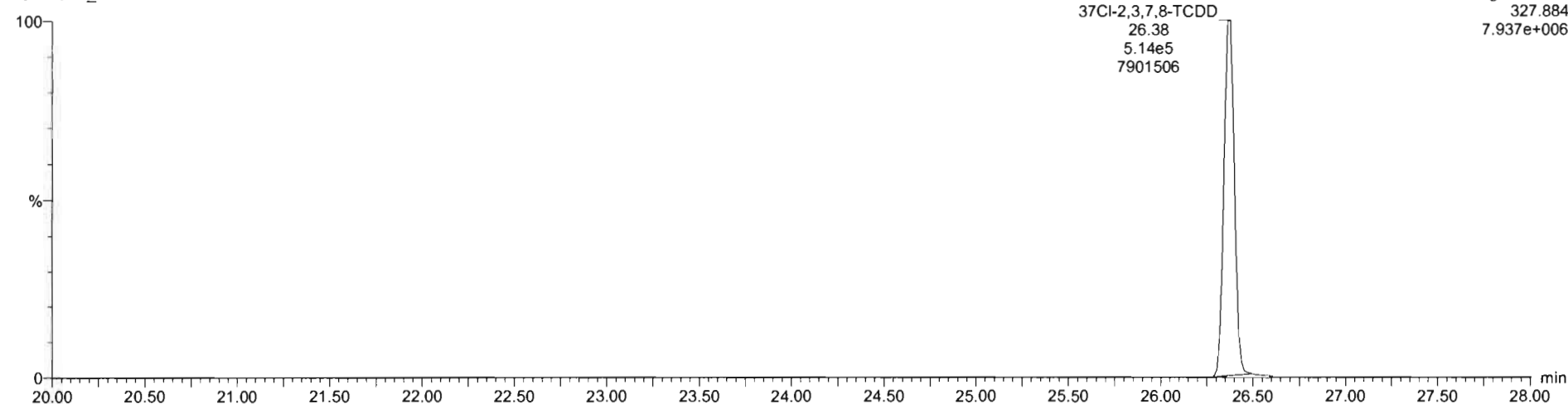
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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

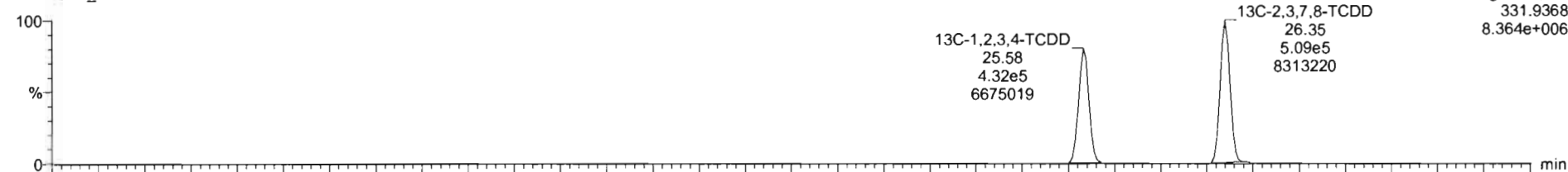
37Cl-2,3,7,8-TCDD

201215R2_11

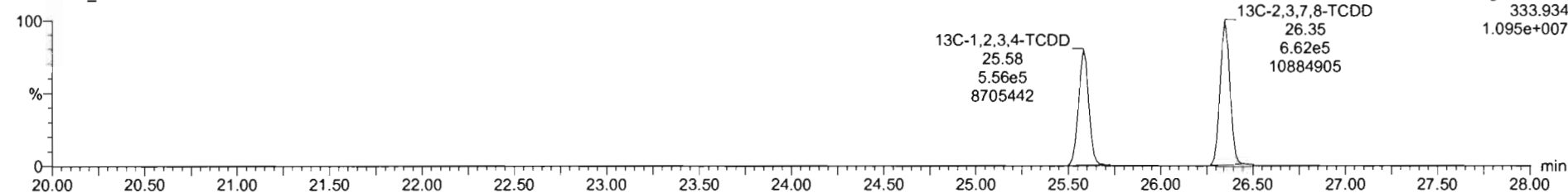


13C-1,2,3,4-TCDD

201215R2_11



201215R2_11



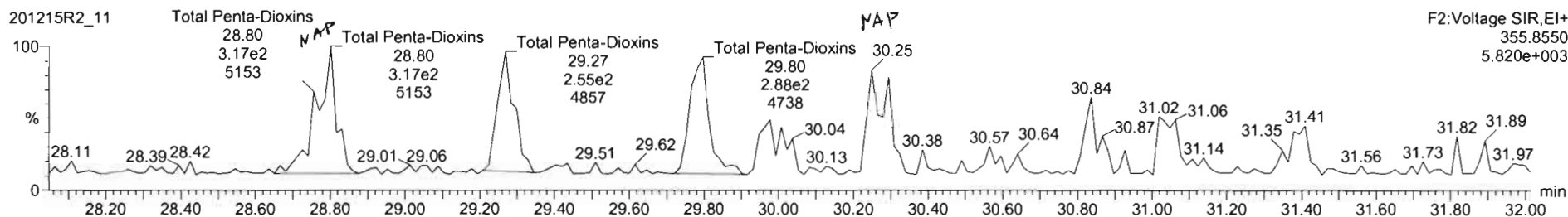
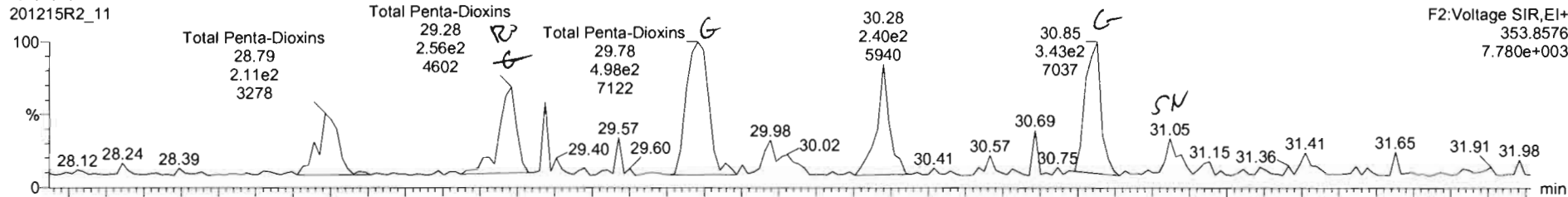
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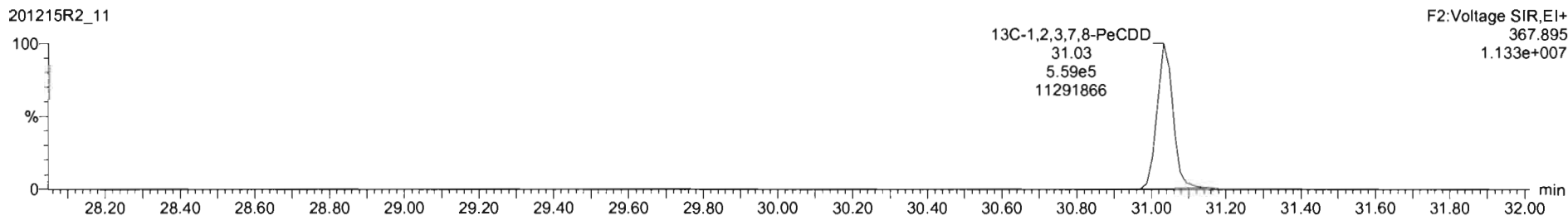
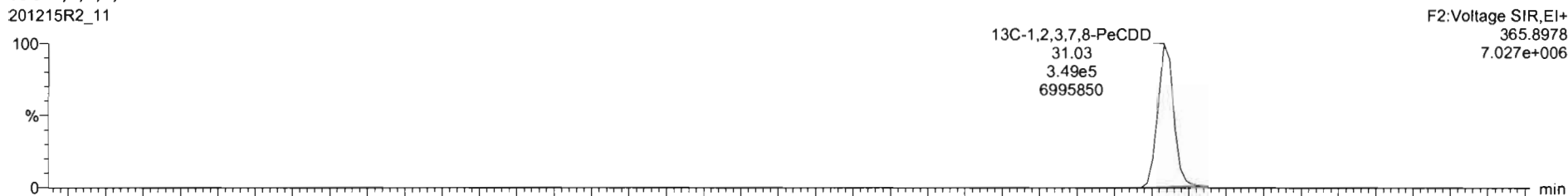
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1,2,3,7,8-PeCDD

HN 12/17/2020

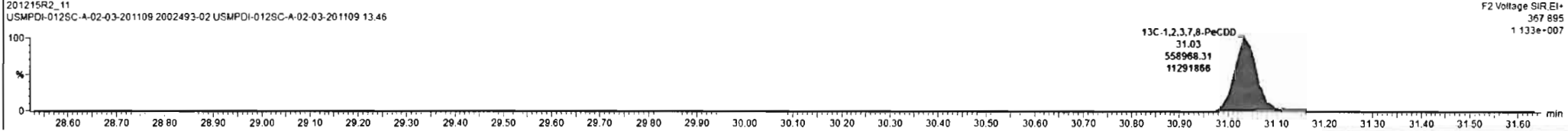
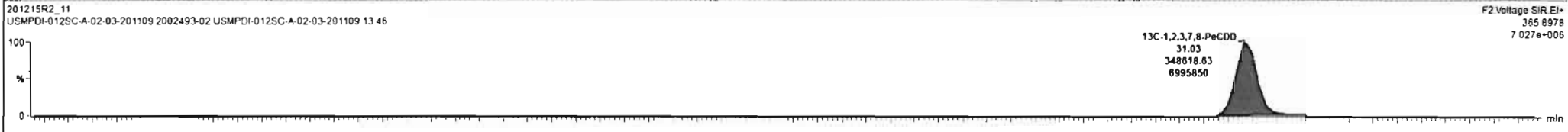
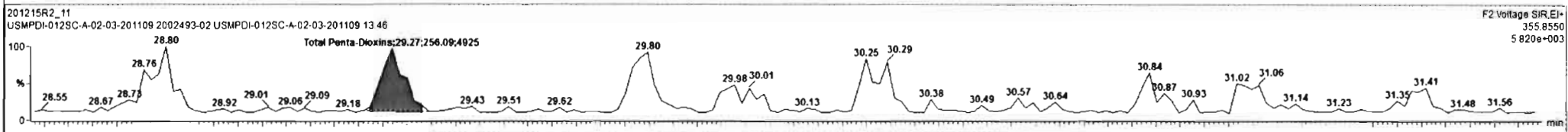
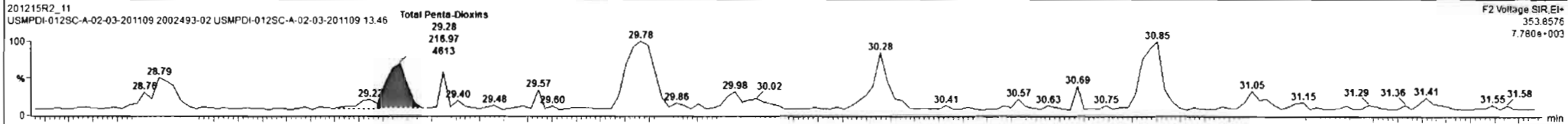


13C-1,2,3,7,8-PeCDD



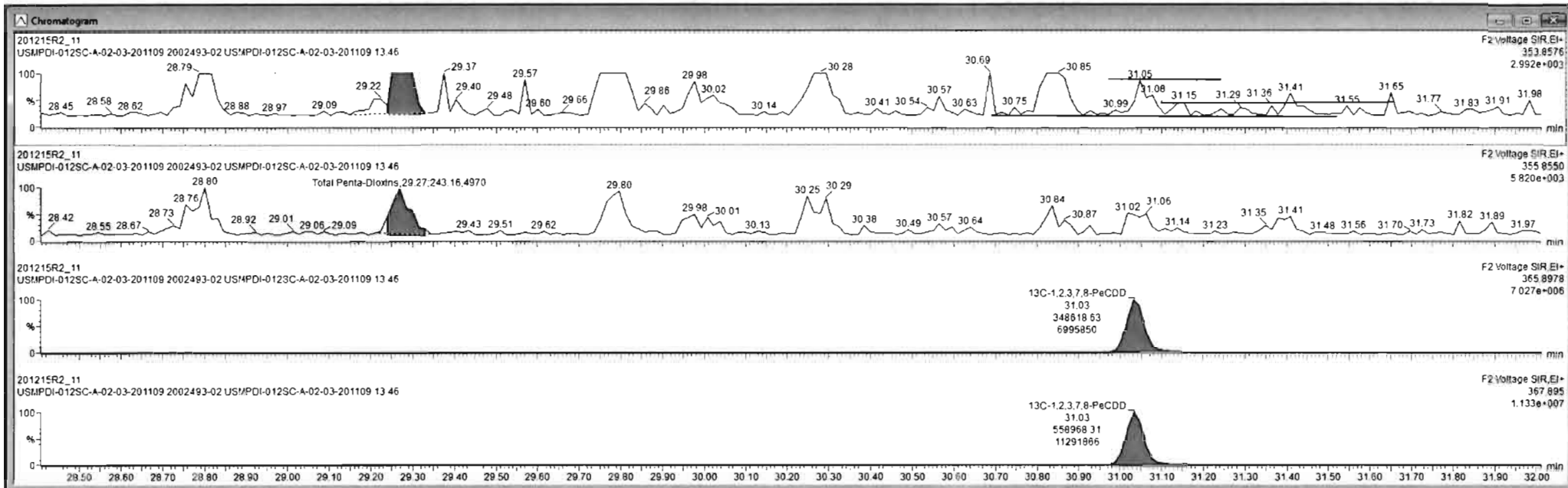
Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9605	10.145			0.129		0.0258	0.212
40 Total Penta-Dioxins				0.9329	10.145			0.600		0.0175	0.0973
41 Total Hexa-Dioxins				0.9025	10.145			1.64		0.0663	1.74
42 Total Hepta-Dioxins				0.9180	10.145			5.30		0.112	5.30
43 Total Tetra-Furans				0.8460	10.145			0.491		0.0264	0.890
44 1st Func. Penta-Furans				0.9597	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.9597	10.145			1.05		0.0239	1.05
46 Total Hexa-Furans				1.0202	10.145			1.06		0.0518	1.50

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	29.28	2.170e2	2.561e2	0.85	YES	0.097288	0.00000



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9605	10.145			0.129		0.0258	0.172
40 Total Penta-Dioxins				0.9320	10.145			0.600		0.0175	0.0924
41 Total Hexa-Dioxins				0.9025	10.145			1.83		0.0663	1.73
42 Total Hepta-Dioxins				0.9180	10.145			5.26		0.112	5.26
43 Total Tetra-Furans				0.8480	10.145			0.496		0.0264	0.905
44 1st Func Penta-Furans				0.9597	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.9607	10.145			1.071		0.0710	1.11

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	29.28	2.170e2	2.432e2	0.89	YES	0.092373	0.00000

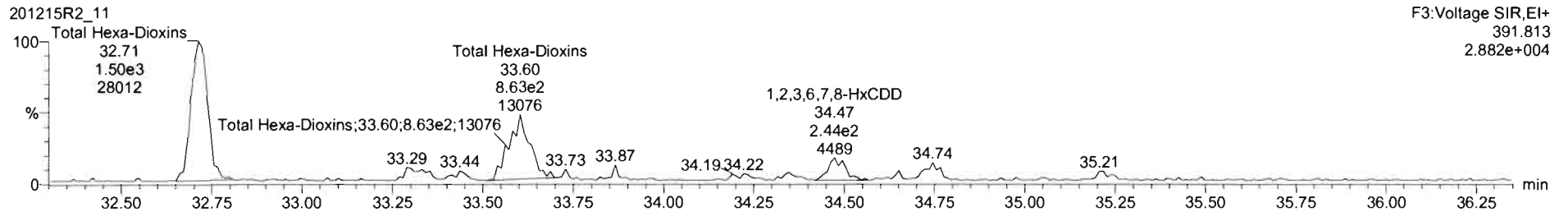
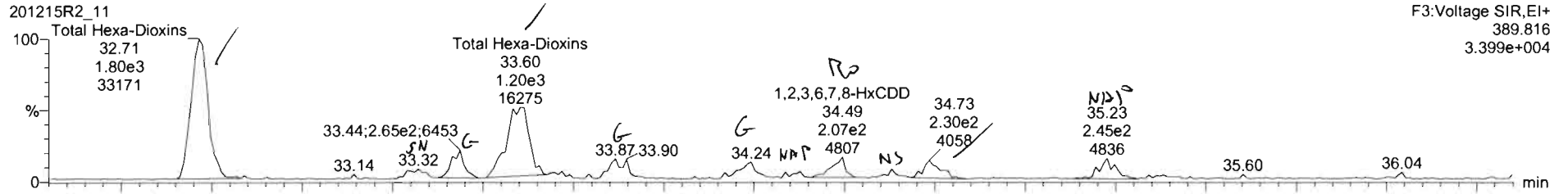


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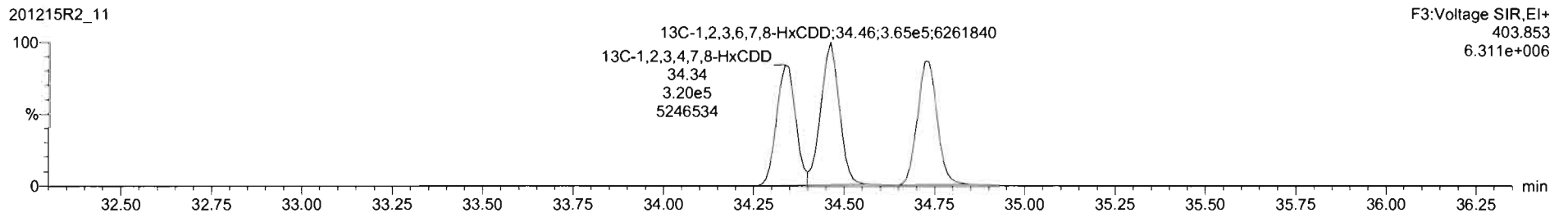
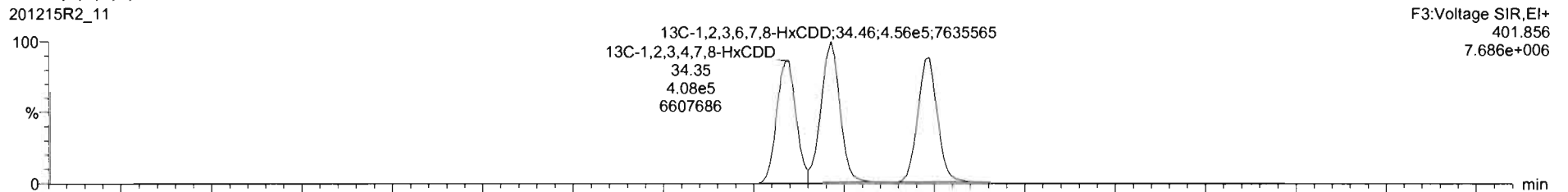
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Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

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

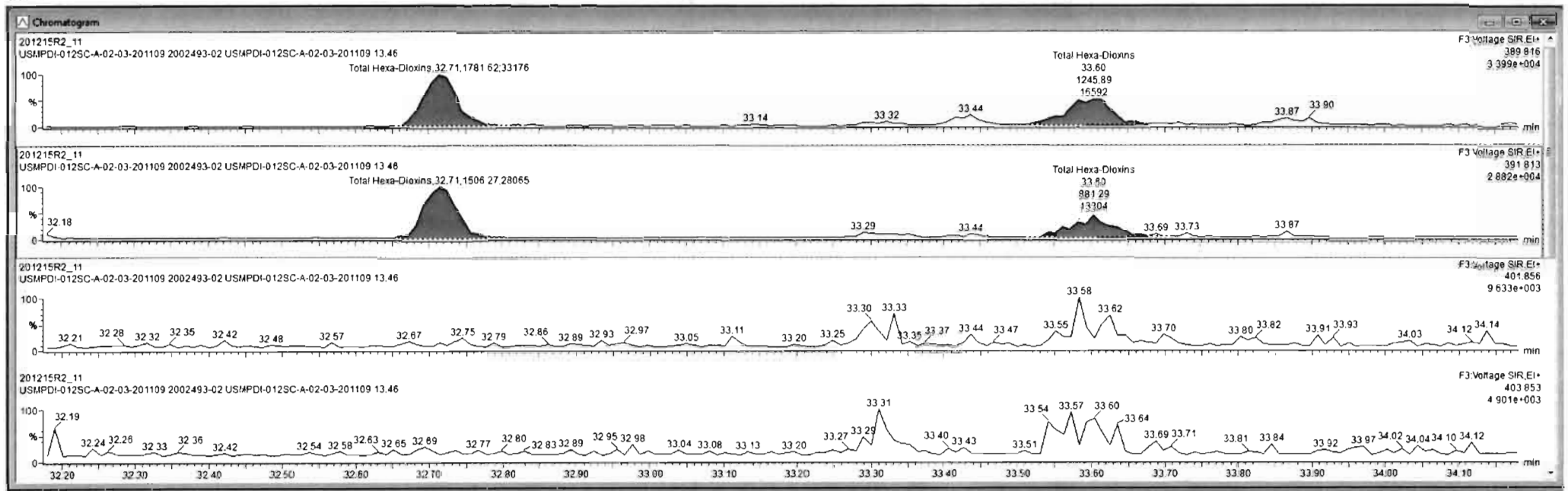


13C-1,2,3,4,7,8-HxCDD



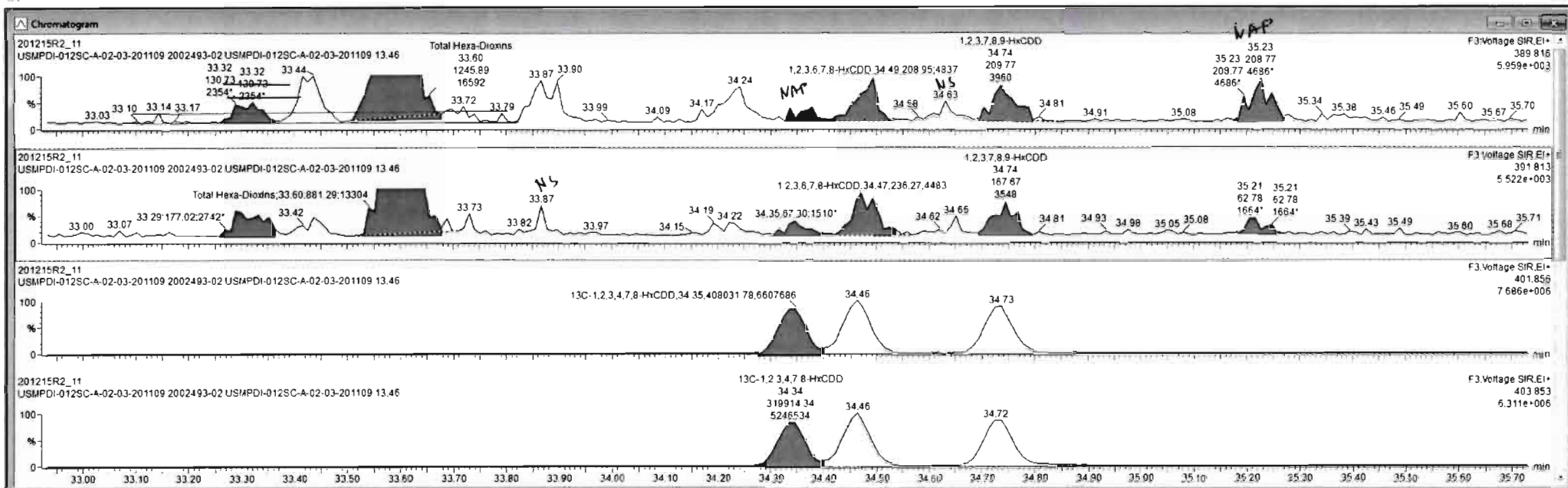
Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9605	10.145			0.129		0.0258	0.172
40 Total Penta-Dioxins				0.9320	10.145			0.000		0.0175	0.0924
41 Total Hexa-Dioxins				0.9025	10.145			1.63		0.0883	1.73
42 Total Hepta-Dioxins				0.9180	10.145			5.26		0.112	5.26
43 Total Tetra-Furans				0.8480	10.145			0.496		0.0264	0.905
44 1st Func. Penta-Furans				0.9597	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				n 0.607	10.145			1.03		n 0.036	1.10

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.71	1.732e3	1.506e3	1.18	NO	0.93019	0.93019
2 Total Hexa-Dioxins	33.60	1.246e3	8.813e2	1.41	NO	0.60181	0.60181
3 1,2,3,6,7,8-HxCDD	34.49	2.089e2	2.363e2	0.88	YES	0.10042	0.00000
4 1,2,3,7,8,9-HxCDD	34.74	2.096e2	1.877e2	1.25	NO	0.10164	0.10164



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9605	10.145			0.129		0.0258	0.172
40 Total Penta-Dioxins				0.9320	10.145			0.600		0.0175	0.0924
41 Total Hexa-Dioxins				0.9025	10.145			1.63		0.0863	1.73
42 Total Hepta-Dioxins				0.9180	10.145			5.26		0.112	5.26
43 Total Tetra-Furans				0.8480	10.145			0.496		0.0264	0.905
44 1st Func. Penta-Furans				0.9597	10.145			0.173		0.0115	0.173
45 Total Denta-Furans				0.9607	10.145			1.03		0.0716	1.10

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.71	1.782e3	1.506e3	1.18	NO	0.93019	0.93019
2 Total Hexa-Dioxins	33.60	1.246e3	8.813e2	1.41	NO	0.60181	0.60181
3 1,2,3,6,7,8-HxCDD	34.49	2.089e2	2.363e2	0.88	YES	0.10042	0.00000
4 1,2,3,7,8,9-HxCDD	34.74	2.098e2	1.677e2	1.25	NO	0.10164	0.10164

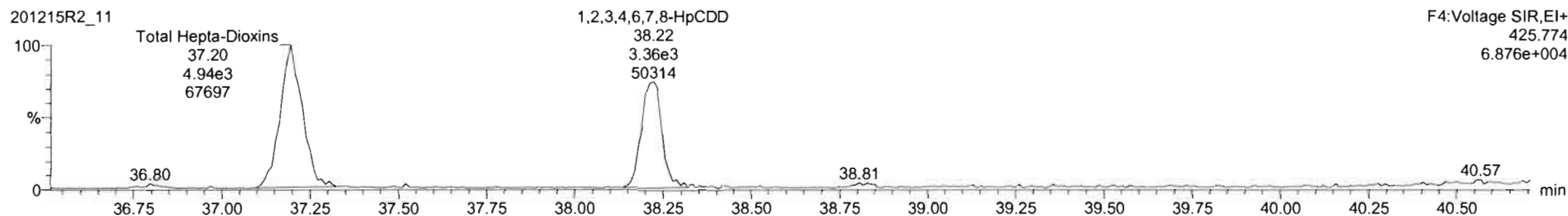
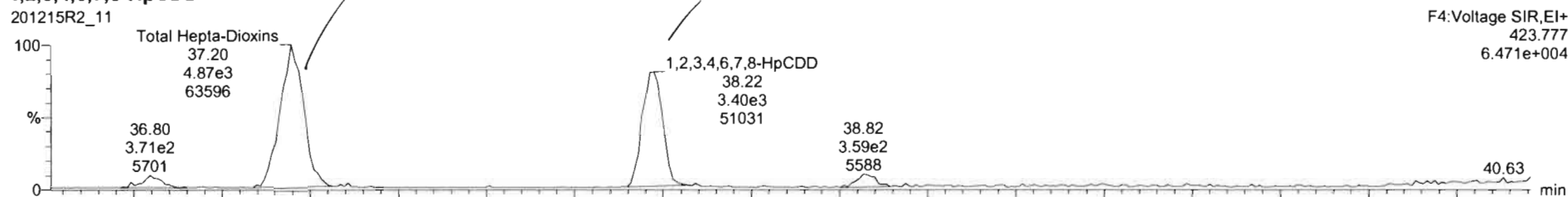


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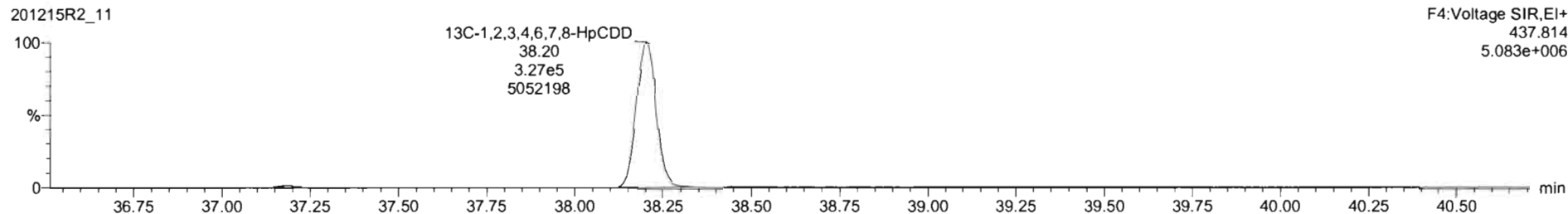
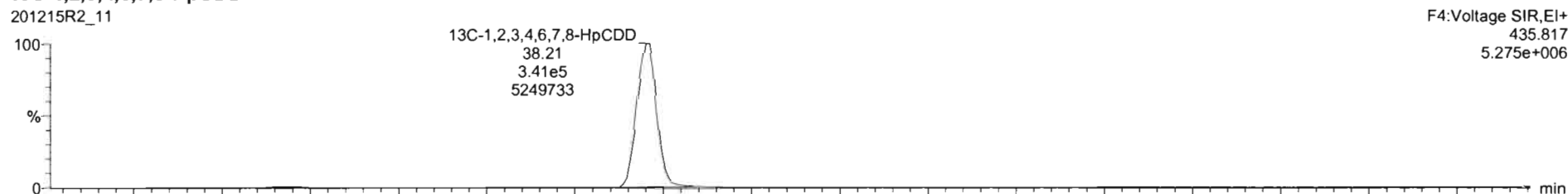
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Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

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

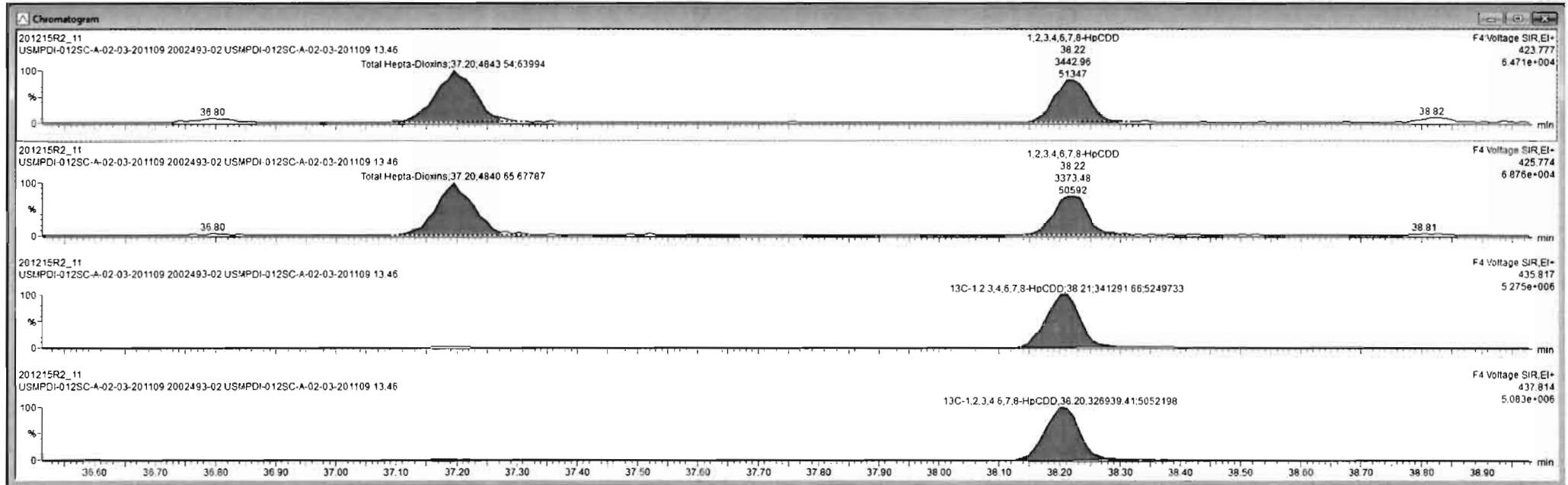


13C-1,2,3,4,6,7,8-HpCDD



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9805	10.145			0.129		0.0258	0.172
40 Total Penta-Dioxins				0.9320	10.145			0.090		0.0175	0.0914
41 Total Hexa-Dioxins				0.9025	10.145			1.64		0.0663	1.74
42 Total Hepta-Dioxins				0.9180	10.145			5.30		0.112	5.30
43 Total Tetra-Furans				0.8480	10.145			0.483		0.0294	0.883
44 1st Func. Penta-Furans				0.9597	10.145			0.173		0.0115	0.173
45 Total Dioxins/Furans				0.9697	10.145			1.06		0.0738	1.12

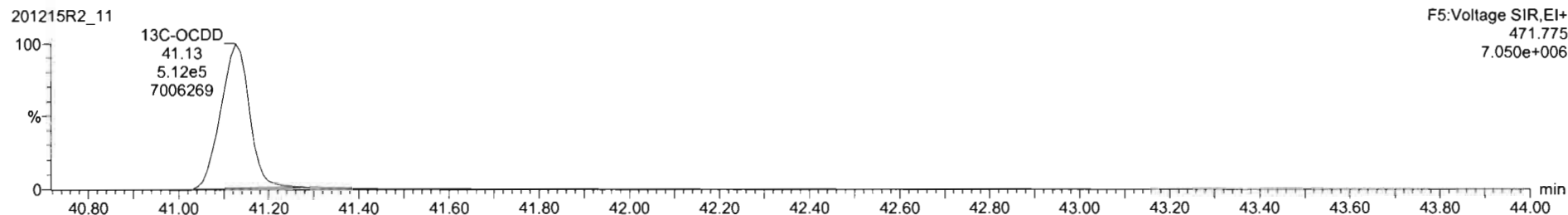
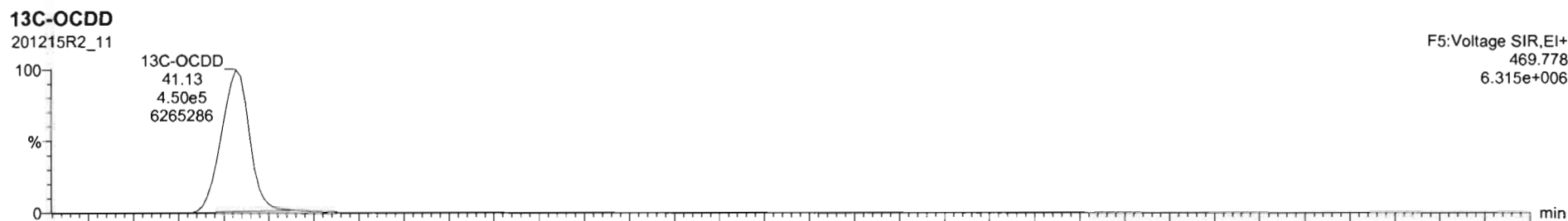
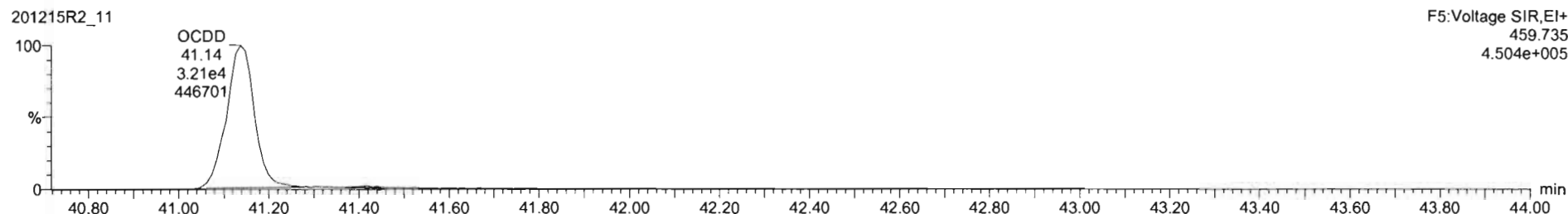
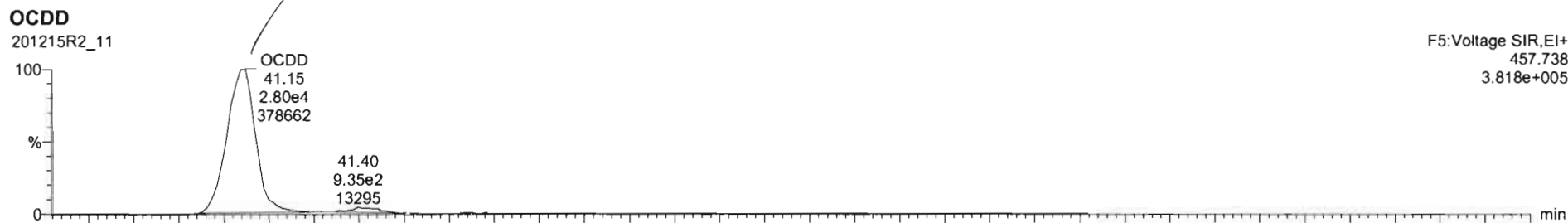
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.20	4.844e3	4.841e3	1.00	NO	3.1120	3.1120
2 1,2,3,4,6,7,8-HpCDD	38.22	3.443e3	3.373e3	1.02	NO	2.1905	2.1905



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Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109



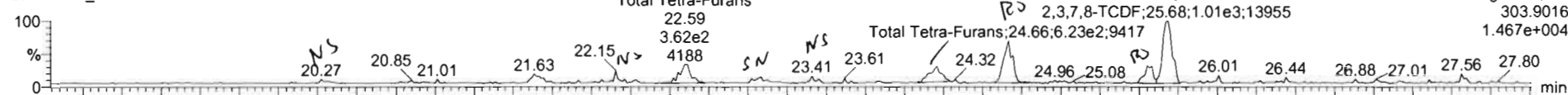
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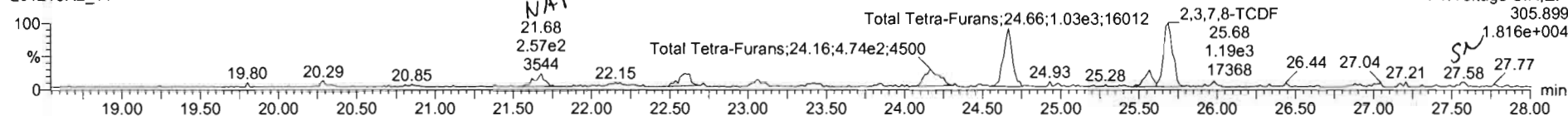
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2,3,7,8-TCDF

201215R2_11

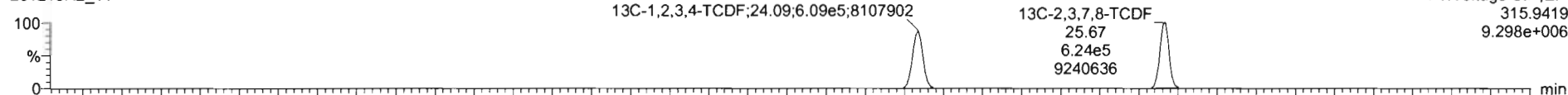


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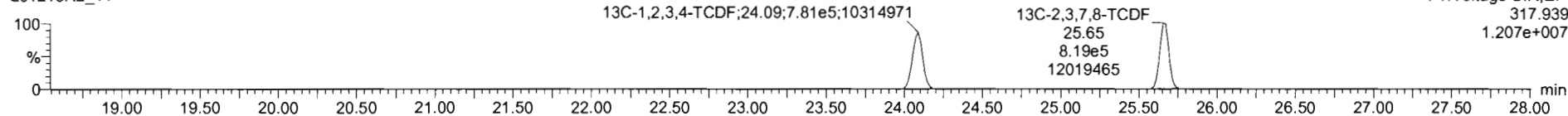


13C-2,3,7,8-TCDF

201215R2_11

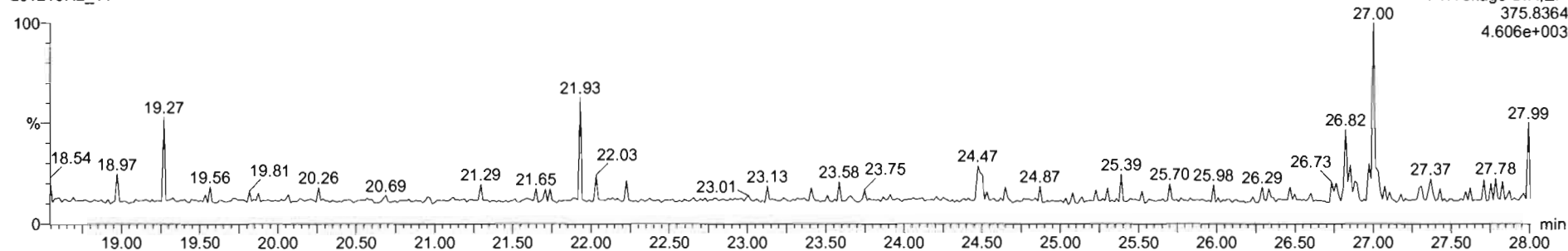


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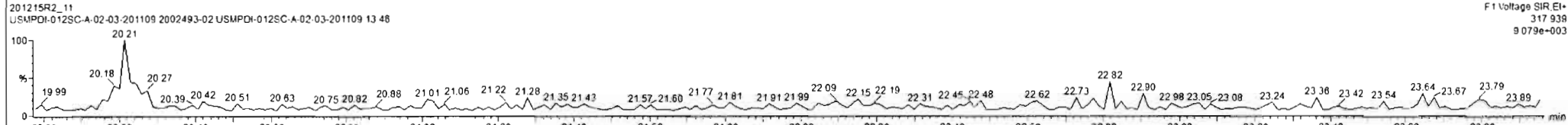
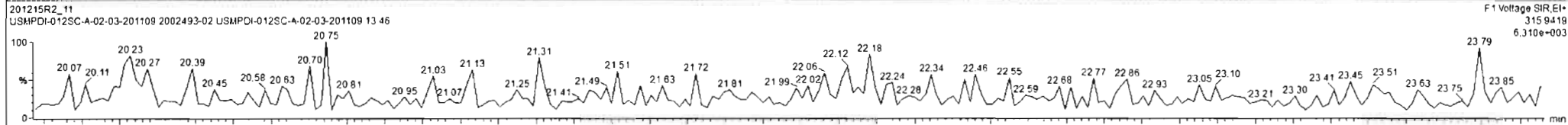
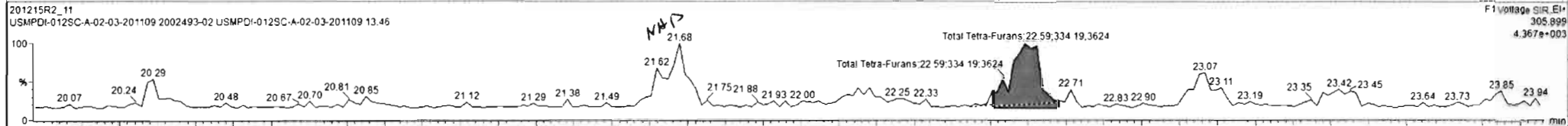
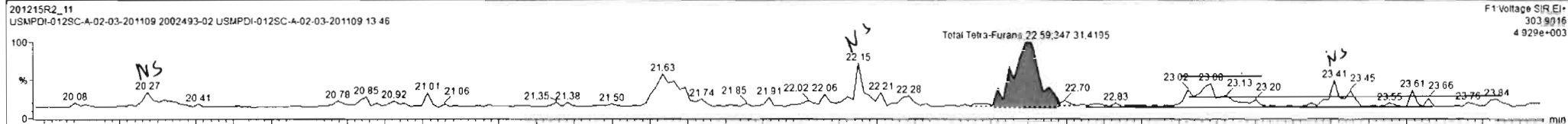


DPE1

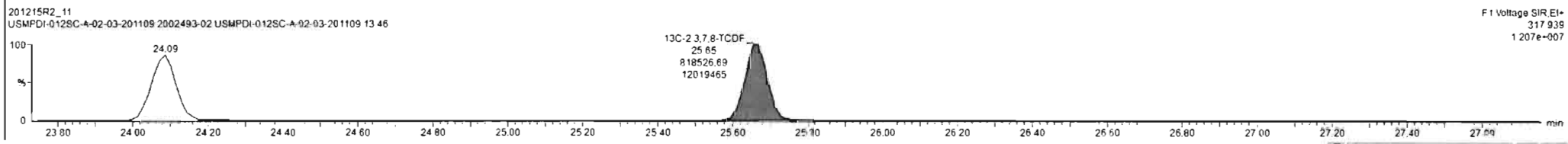
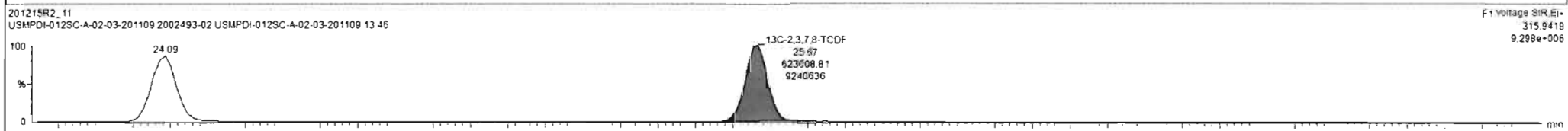
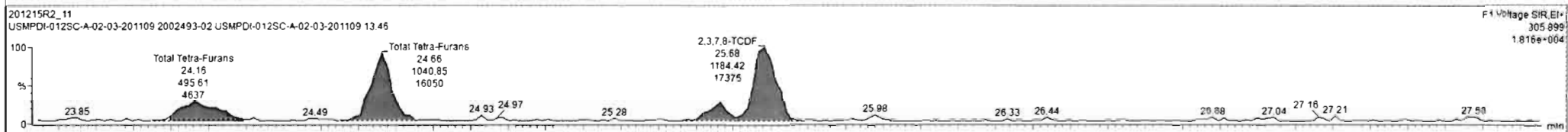
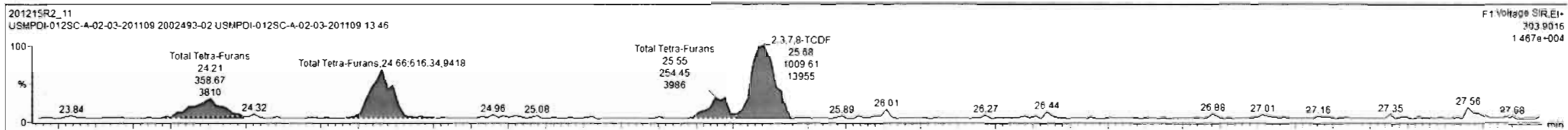
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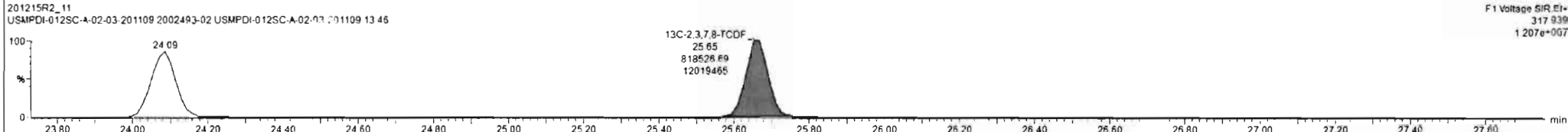
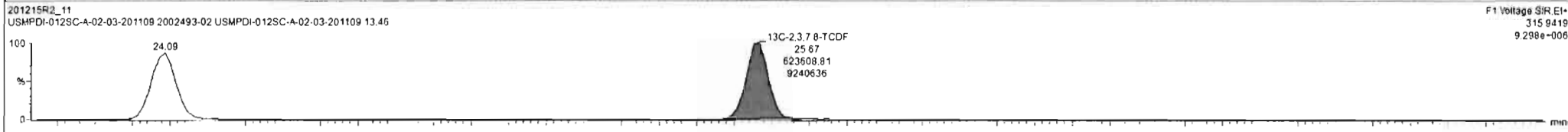
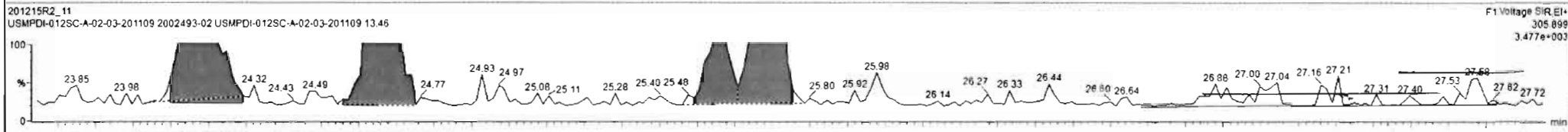
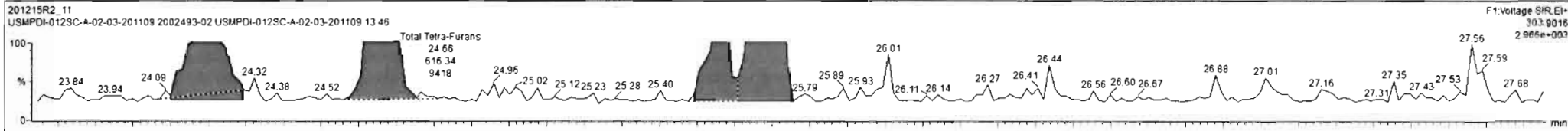
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DJ	EMPC
43 Total Tetra-Furans				0.85	10.145			0.491	0.0204	0.899	
44 1st Func. Penta-Furans				0.96	10.145			0.173	0.0115	0.173	
45 Total Penta-Furans				0.96	10.145			1.05	0.0238	1.12	
46 Total Hexa-Furans				1.02	10.145			1.27	0.0518	1.52	
47 Total Hepta-Furans				1.05	10.145			1.72	0.0516	1.72	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.85	10.145			0.491		0.0284	0.890
44 1st Func. Penta-Furans				0.96	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.96	10.145			1.05		0.0239	1.12
46 Total Hexa-Furans				1.02	10.145			1.27		0.0518	1.52
47 Total Hepta-Furans				1.05	10.145			1.72		0.0516	1.72
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											



#	Name	Resp	RA	nly	RRF	uVvol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.85	10.145			0.491		0.0264	0.890
44	1st Func. Penta-Furans				0.96	10.145			0.173		0.0115	0.173
45	Total Penta-Furans				0.96	10.145			1.05		0.0239	1.12
46	Total Hexa-Furans				1.02	10.145			1.27		0.0518	1.52
47	Total Hepta-Furans				1.05	10.145			1.72		0.0516	1.72
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											
55	DPE3											



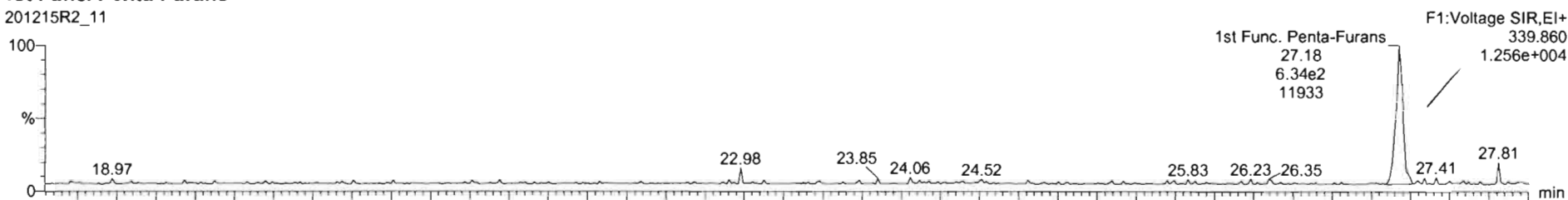
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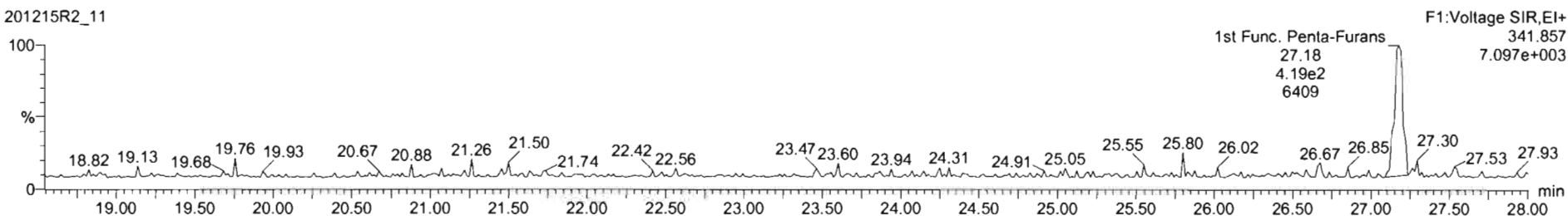
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1st Func. Penta-Furans

201215R2_11

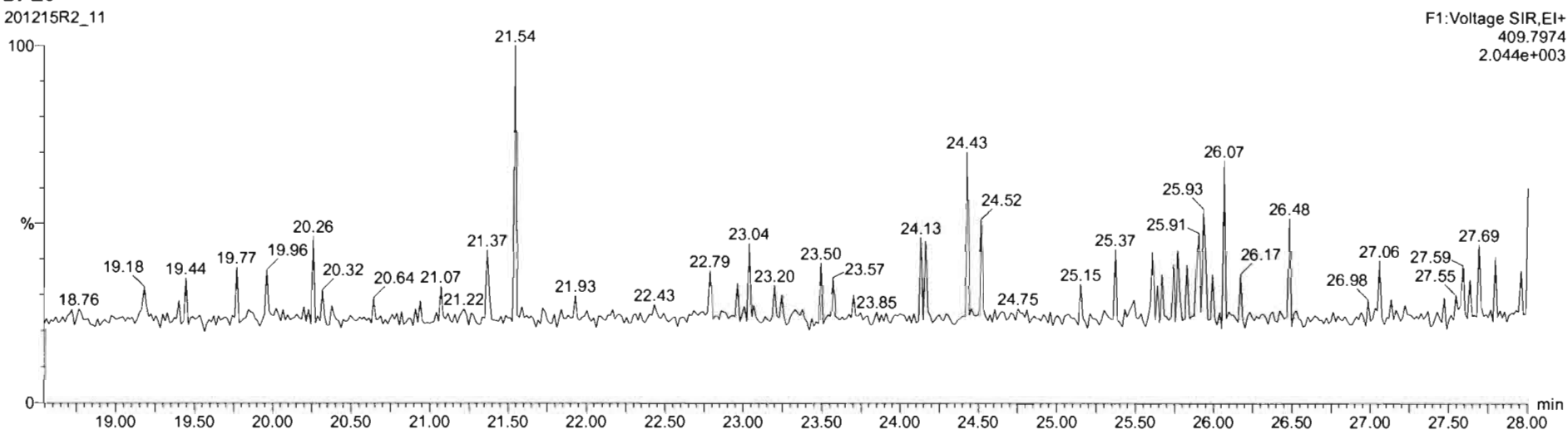


201215R2_11



DPE6

201215R2_11



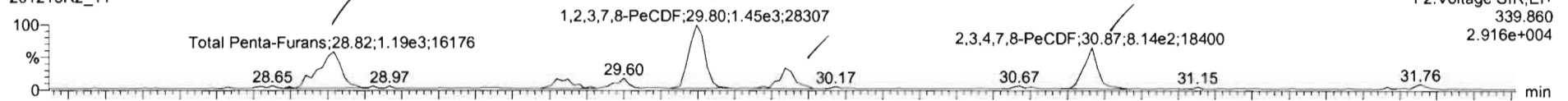
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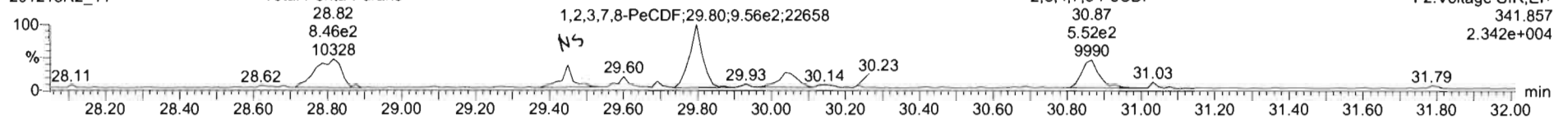
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1,2,3,7,8-PeCDF

201215R2_11

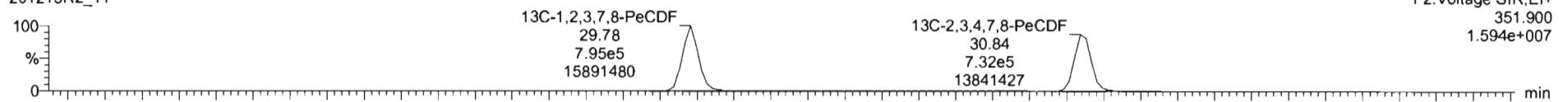


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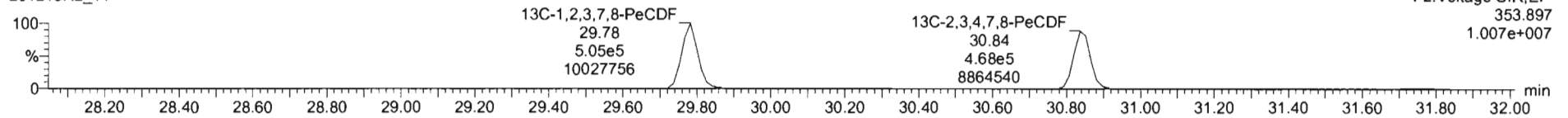


13C-1,2,3,7,8-PeCDF

201215R2_11

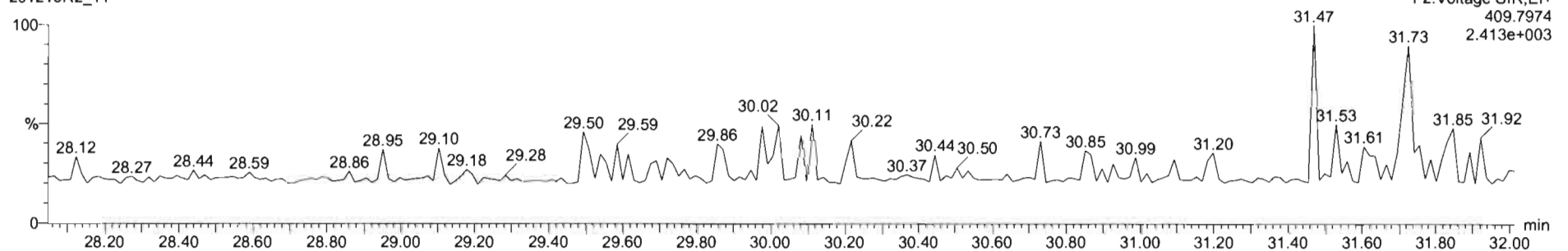


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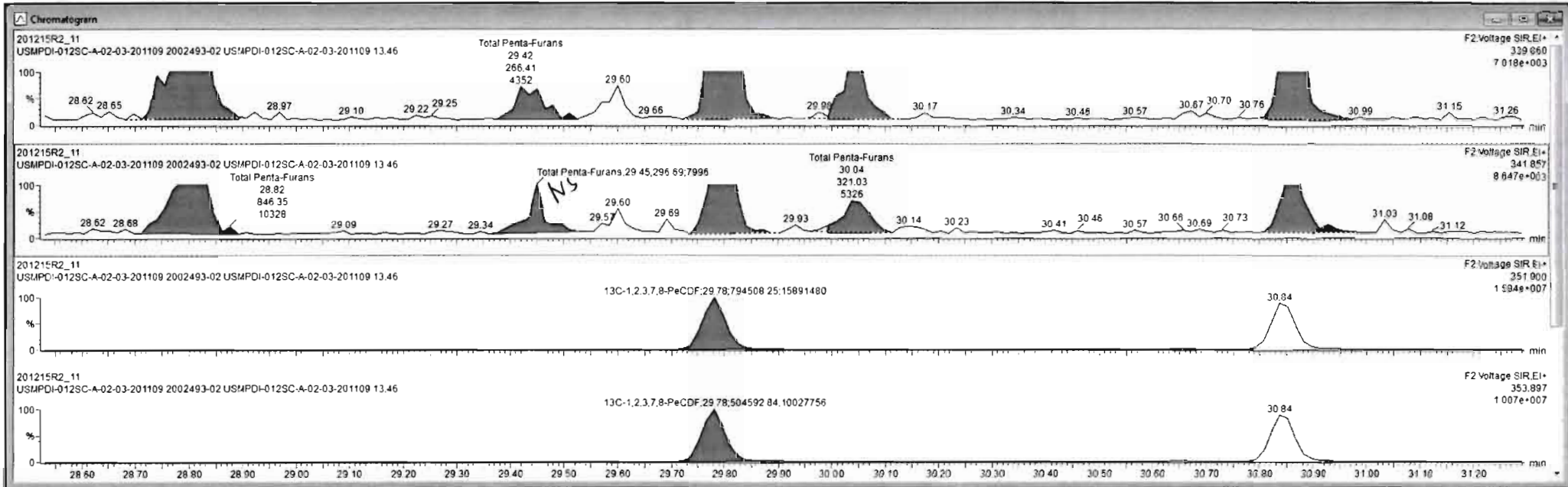
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201215R2_11



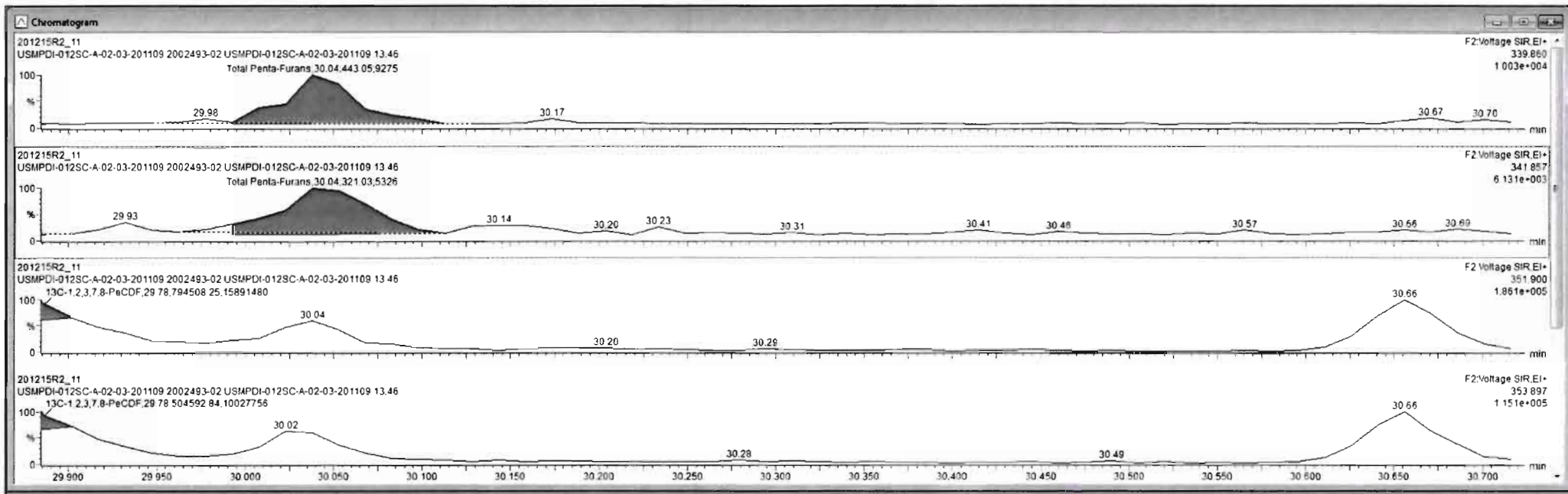
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.85	10.145			0.491		0.0264	0.890
44 1st Func. Penta-Furans				0.96	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.98	10.145			1.95		0.0239	1.12
46 Total Hexa-Furans				1.02	10.145			0.371		0.0518	0.628
47 Total Hepta-Furans				1.05	10.145			1.72		0.0516	1.72
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.82	1.201e3	8.463e2	1.42	NO	0.33650	0.33650
2 Total Penta-Furans	29.42	2.664e2	2.967e2	0.90	YES	0.072050	0.00000
3 1,2,3,7,8-PeCDF	29.80	1.455e3	9.569e2	1.52	NO	0.38132	0.38132
4 Total Penta-Furans	30.04	4.430e2	3.210e2	1.38	NO	0.12561	0.12561
5 2,3,4,7,8-PeCDF	30.87	8.209e2	5.373e2	1.53	NO	0.20908	0.20908



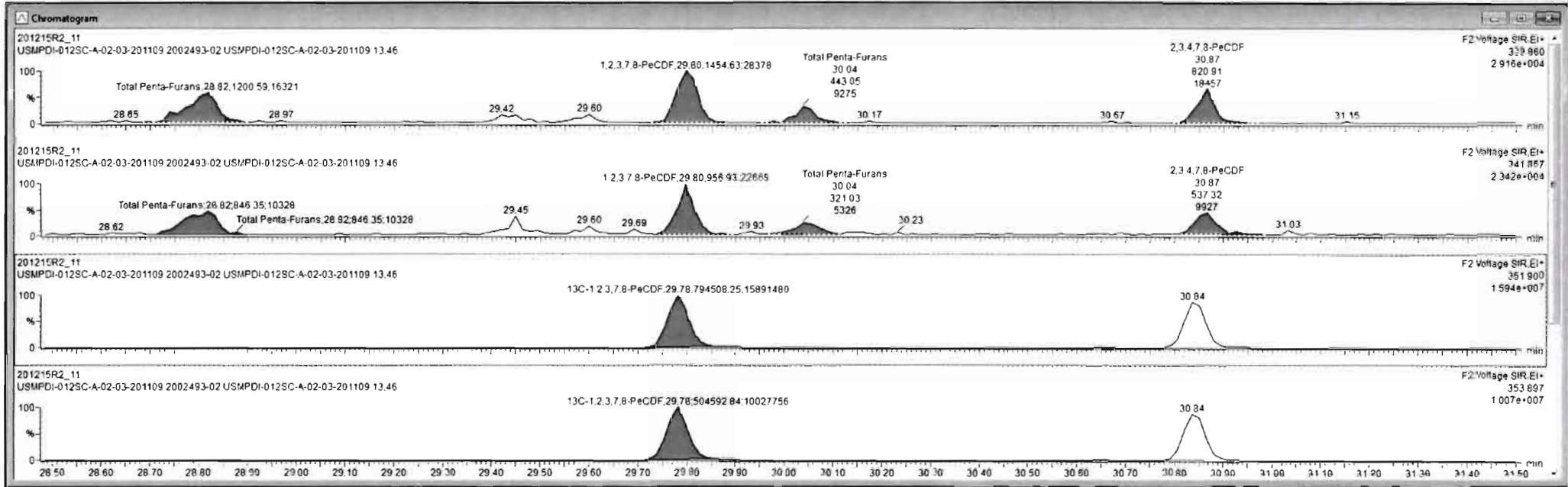
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.85	10.145			0.491		0.0264	0.690
44 1st Func. Penta-Furans				0.96	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.96	10.145			1.05		0.0239	1.05
46 Total Hexa-Furans				1.02	10.145			0.371		0.0518	0.628
47 Total Hepta-Furans				1.05	10.145			1.72		0.0516	1.72
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.82	1.201e3	8.463e2	1.42	NO	0.33650	0.33650
2 1,2,3,7,8-PeCDF	29.80	1.455e3	9.569e2	1.52	NO	0.38132	0.38132
3 Total Penta-Furans	30.04	4.430e2	3.210e2	1.38	NO	0.12561	0.12561
4 2,3,4,7,8-PeCDF	30.87	8.209e2	5.373e2	1.53	NO	0.20908	0.20908



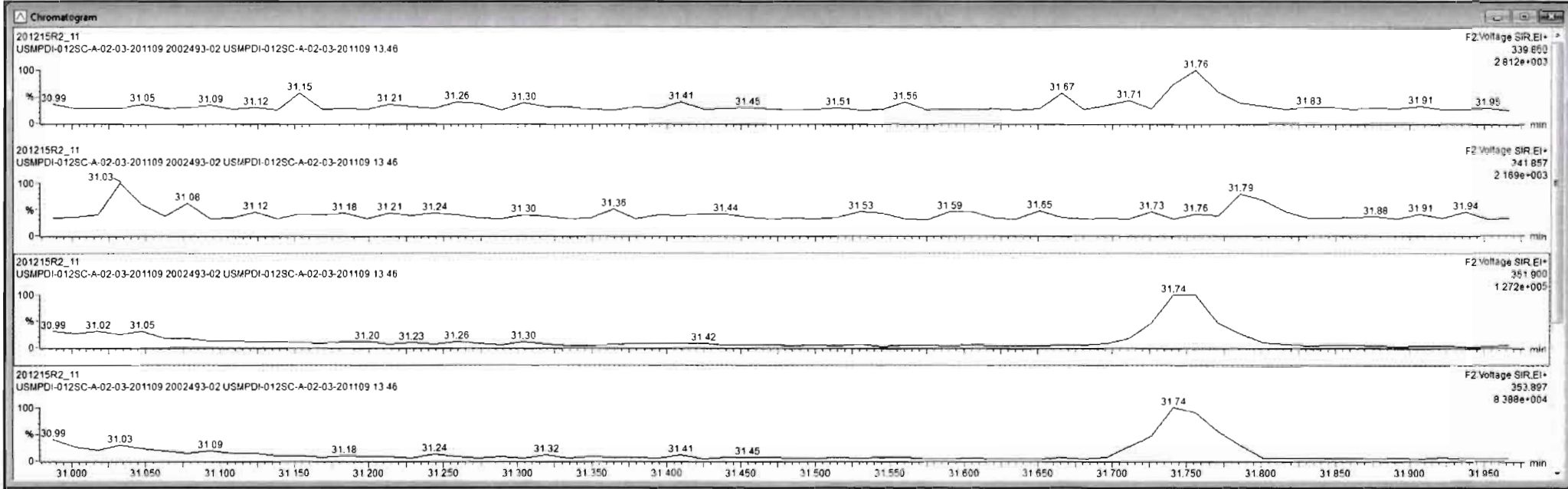
Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.85	10.145			0.491		0.0264	0.890
44 1st Func. Penta-Furans				0.96	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.96	10.145			1.05		0.0239	1.05
46 Total Hexa-Furans				1.02	10.145			0.371		0.0518	0.628
47 Total Hepta-Furans				1.05	10.145			1.72		0.0516	1.72
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.82	1.201e3	8.463e2	1.42	NO	0.33650	0.33650
2 1,2,3,7,8-PeCDF	29.80	1.455e3	9.569e2	1.52	NO	0.38132	0.38132
3 Total Penta-Furans	30.04	4.430e2	3.210e2	1.38	NO	0.12561	0.12561
4 2,3,4,7,8-PeCDF	30.87	8.209e2	5.373e2	1.53	NO	0.20908	0.20908



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.145			0.129		0.0258	0.172
40 Total Penta-Dioxins				0.93	10.145			0.000		0.0175	0.0914
41 Total Hexa-Dioxins				0.90	10.145			1.64		0.0663	1.74
42 Total Hepta-Dioxins				0.92	10.145			5.30		0.112	5.30
43 Total Tetra-Furans				0.85	10.145			0.491		0.0264	0.890
44 1st Func. Penta-Furans				0.96	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.96	10.145			1.05		0.0239	1.05

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.82	1.201e3	8.463e2	1.42	NO	0.33850	0.33850
2 1,2,3,7,8-PeCDF	29.80	1.455e3	9.569e2	1.52	NO	0.38132	0.38132
3 Total Penta-Furans	30.04	4.430e2	3.210e2	1.38	NO	0.12561	0.12561
4 2,3,4,7,8-PeCDF	30.87	8.209e2	5.373e2	1.53	NO	0.20908	0.20908



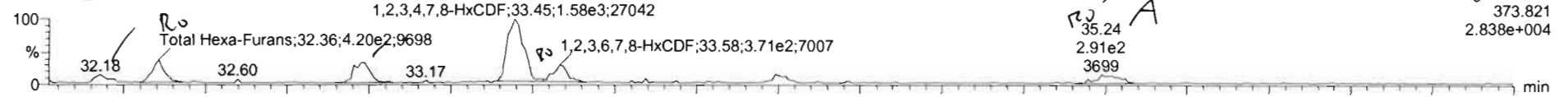
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Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

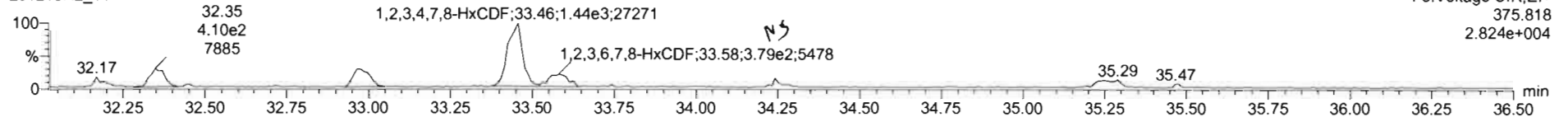
1,2,3,4,7,8-HxCDF

201215R2_11



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2.838e+004

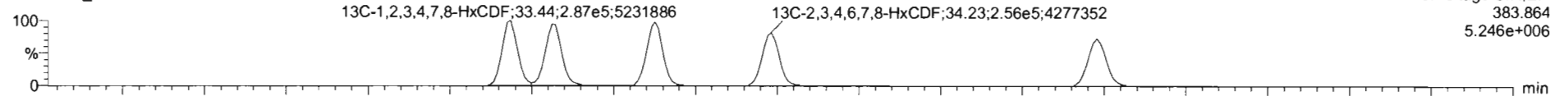
201215R2_11



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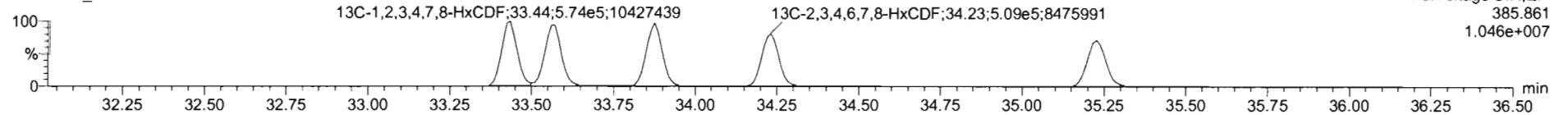
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201215R2_11



F3:Voltage SIR,EI+
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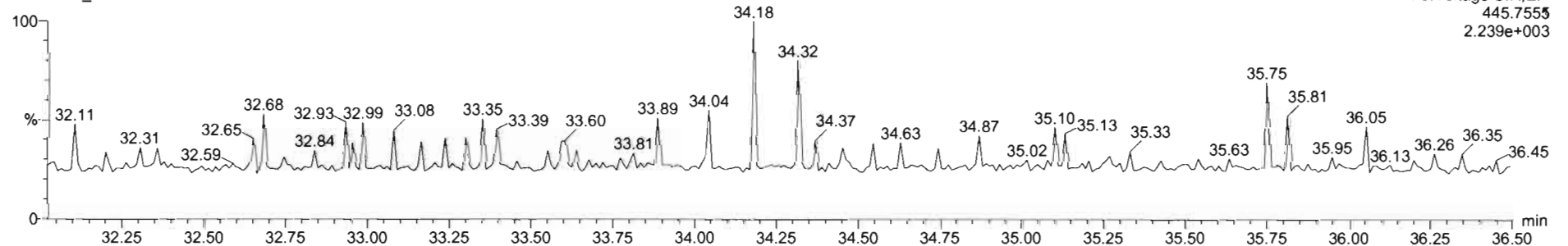
201215R2_11



F3:Voltage SIR,EI+
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1.046e+007

DPE3

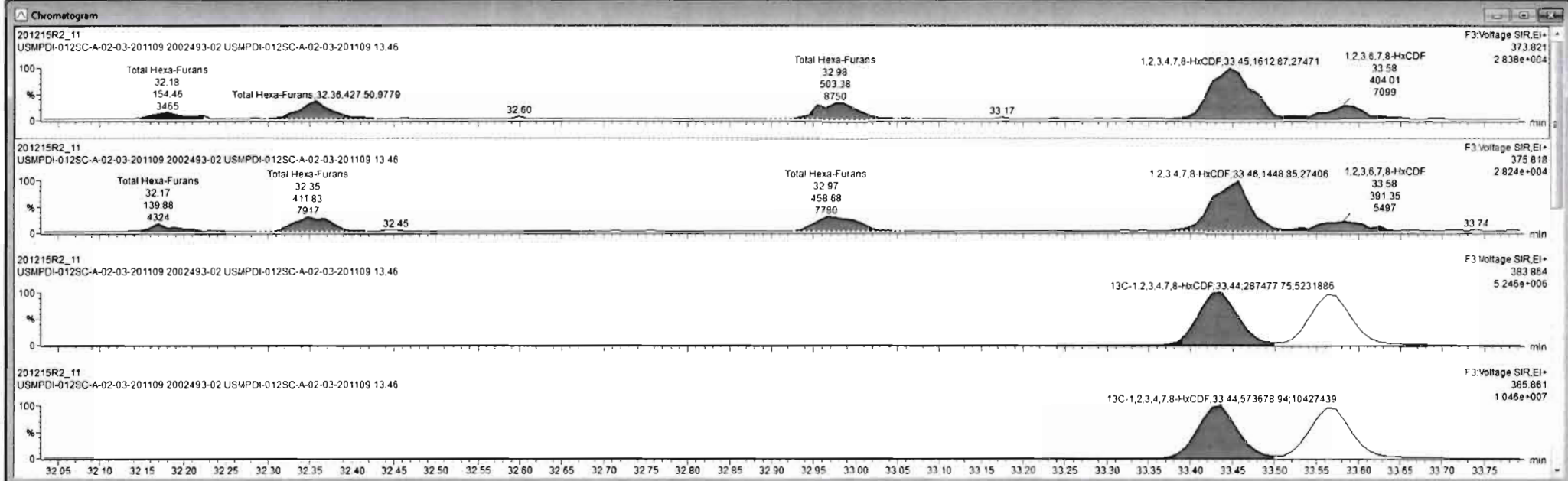
201215R2_11



F3:Voltage SIR,EI+
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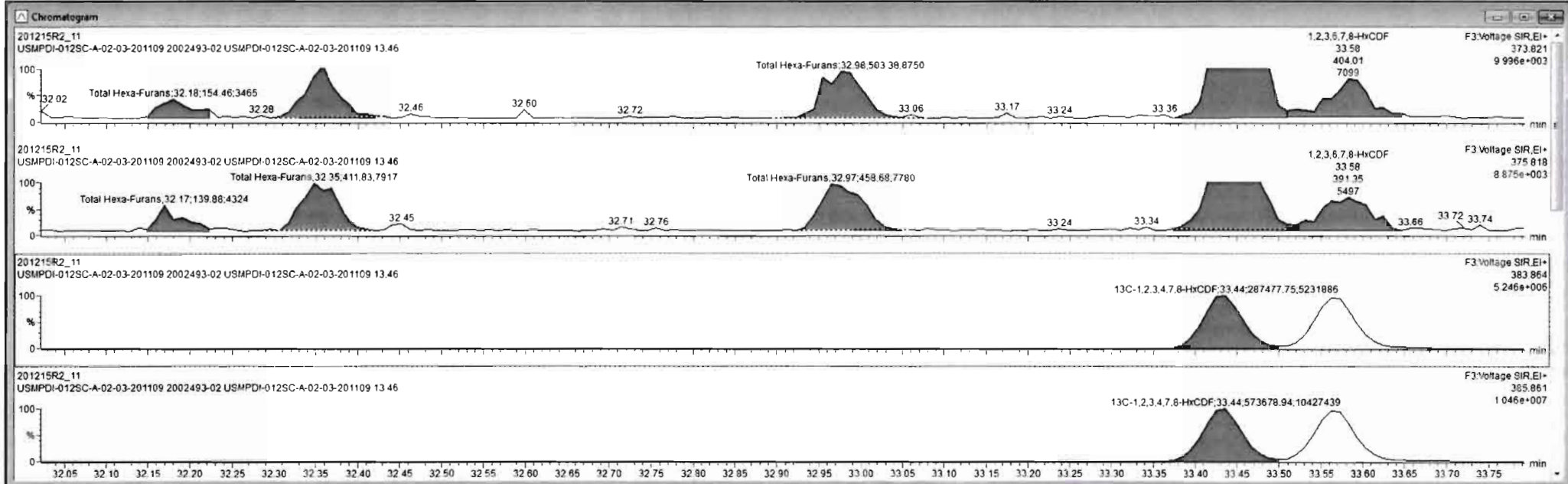
#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.98	10.145			0.129		0.0258	0.172
40	Total Penta-Dioxins				0.93	10.145			0.000		0.0175	0.0914
41	Total Hexa-Dioxins				0.90	10.145			1.64		0.0663	1.74
42	Total Hepta-Dioxins				0.92	10.145			5.30		0.112	5.30
43	Total Tetra-Furans				0.85	10.145			0.491		0.0264	0.890
44	1st Func. Penta-Furans				0.98	10.145			0.173		0.0115	0.173
45	Total Penta-Furans				0.96	10.145			1.05		0.0239	1.05

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.18	1.545e2	1.399e2	1.10	NO	0.070808	0.070808
2	Total Hexa-Furans	32.36	4.275e2	4.118e2	1.04	YES	0.18578	0.00000
3	Total Hexa-Furans	32.98	5.034e2	4.587e2	1.10	NO	0.23145	0.23145
4	1,2,3,4,7,8-HxCDF	33.45	1.613e3	1.449e3	1.11	NO	0.71090	0.71090
5	1,2,3,6,7,8-HxCDF	33.58	4.040e2	3.914e2	1.03	YES	0.16096	0.00000
6	1,2,3,7,8,9-HxCDF	35.24	1.605e2	1.315e2	1.22	NO	0.079918	0.079918



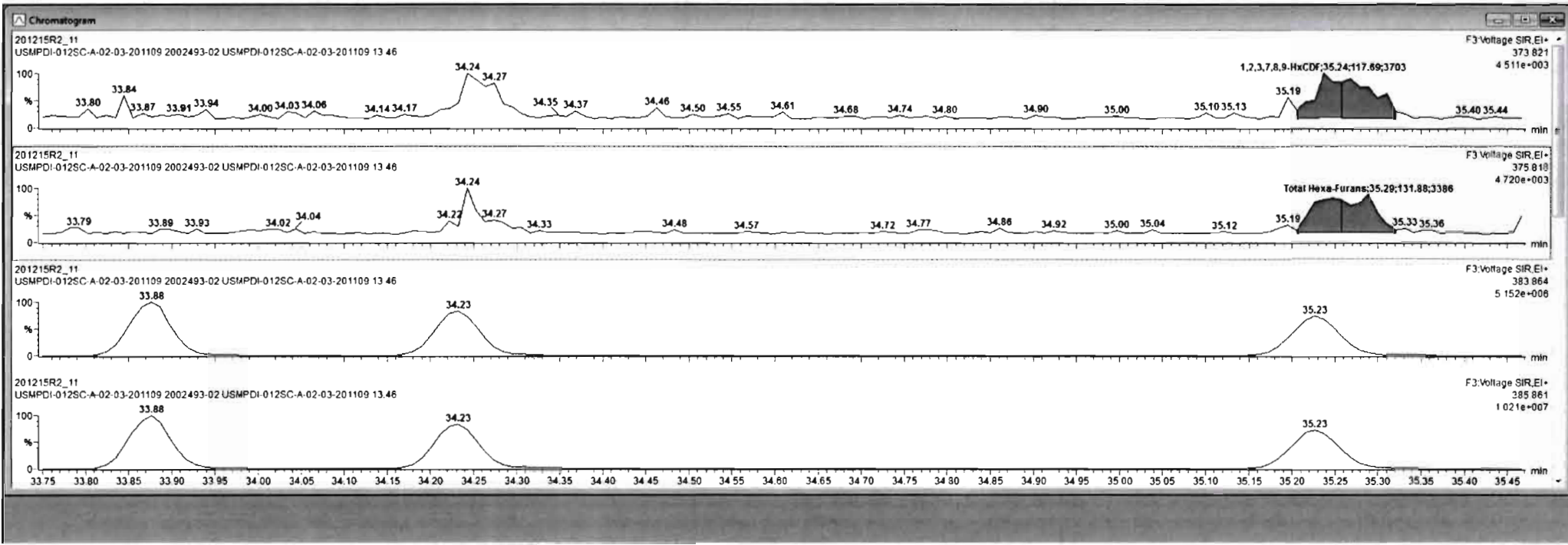
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.98	10.145			0.129		0.0258	0.172
40 Total Penta-Dioxins				0.93	10.145			0.060		0.0175	0.0914
41 Total Hexa-Dioxins				0.90	10.145			1.64		0.0663	1.74
42 Total Hepta-Dioxins				0.92	10.145			5.30		0.112	5.30
43 Total Tetra-Furans				0.85	10.145			0.491		0.0264	0.890
44 1st Func. Penta-Furans				0.98	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.96	10.145			1.05		0.0239	1.05

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.18	1.545e2	1.399e2	1.10	NO	0.070808	0.070808
2 Total Hexa-Furans	32.36	4.275e2	4.118e2	1.04	YES	0.18578	0.00000
3 Total Hexa-Furans	32.98	5.034e2	4.587e2	1.10	NO	0.23145	0.23145
4 1,2,3,4,7,8-HxCDF	33.45	1.613e3	1.449e3	1.11	NO	0.71090	0.71090
5 1,2,3,6,7,8-HxCDF	33.58	4.040e2	3.914e2	1.03	YES	0.16096	0.00000
6 1,2,3,7,8,9-HxCDF	35.24	1.605e2	1.315e2	1.22	NO	0.079918	0.079918



Name	Reap	RA	n/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9605	10.145			0.129		0.0258	0.212
40 Total Penta-Dioxins				0.9320	10.145			0.800		0.0175	0.0973
41 Total Hexa-Dioxins				0.9025	10.145			1.84		0.0663	1.74
42 Total Hepta-Dioxins				0.9180	10.145			5.30		0.112	5.30
43 Total Tetra-Furans				0.8480	10.145			0.491		0.0284	0.890
44 1st Func. Penta-Furans				0.9597	10.145			0.173		0.0115	0.173
45 Total Penta-Furans				0.9597	10.145			1.05		0.0239	1.05
46 Total Hexa-Furans				1.0202	10.145			1.00		0.0518	1.48

Name	RT	m1 Reap	m2 Reap	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.98	5.034e2	4.587e2	1.10	NO	0.23145	0.23145
2 Total Hexa-Furans	32.36	4.275e2	4.118e2	1.04	YES	0.18578	0.00000
3 1,2,3,7,8,9-HxCDF	35.24	1.177e2	1.218e2	0.97	YES	0.058187	0.00000
4 Total Hexa-Furans	35.27	1.460e2	1.319e2	1.11	NO	0.066845	0.066845

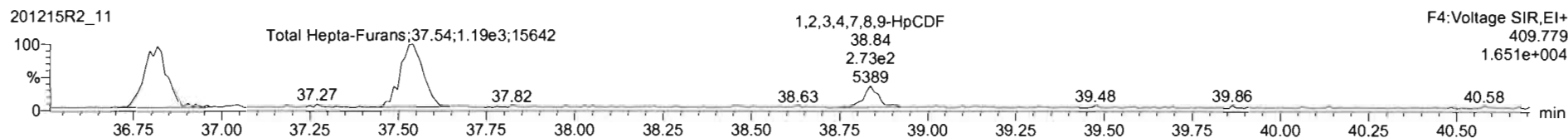
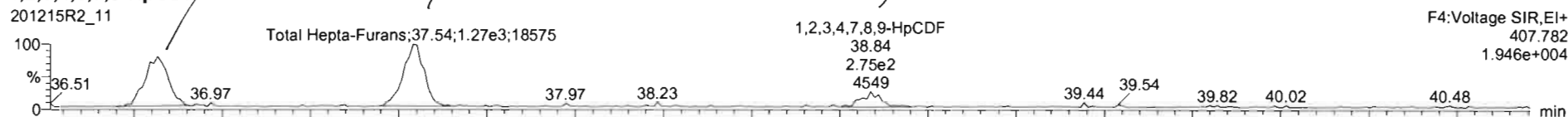


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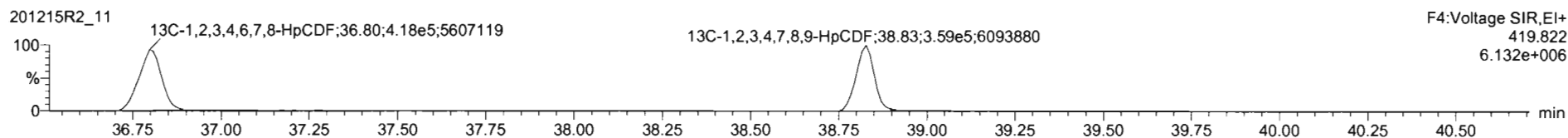
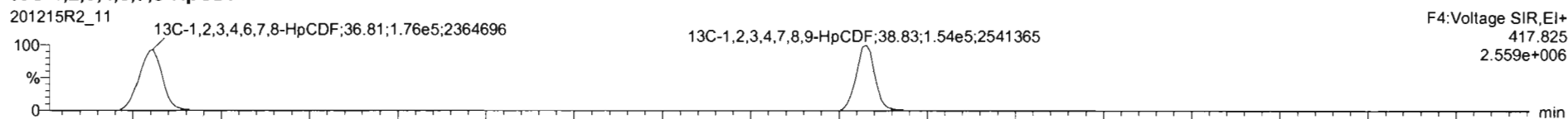
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Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

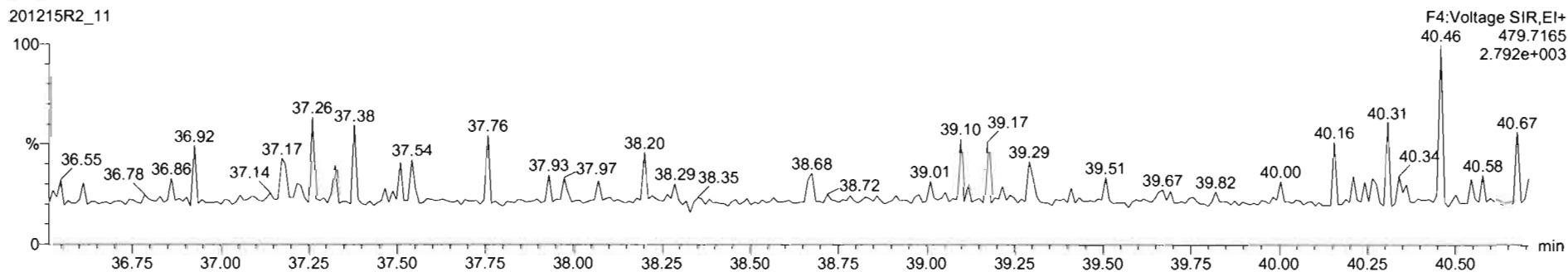
1,2,3,4,6,7,8-HpCDF



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

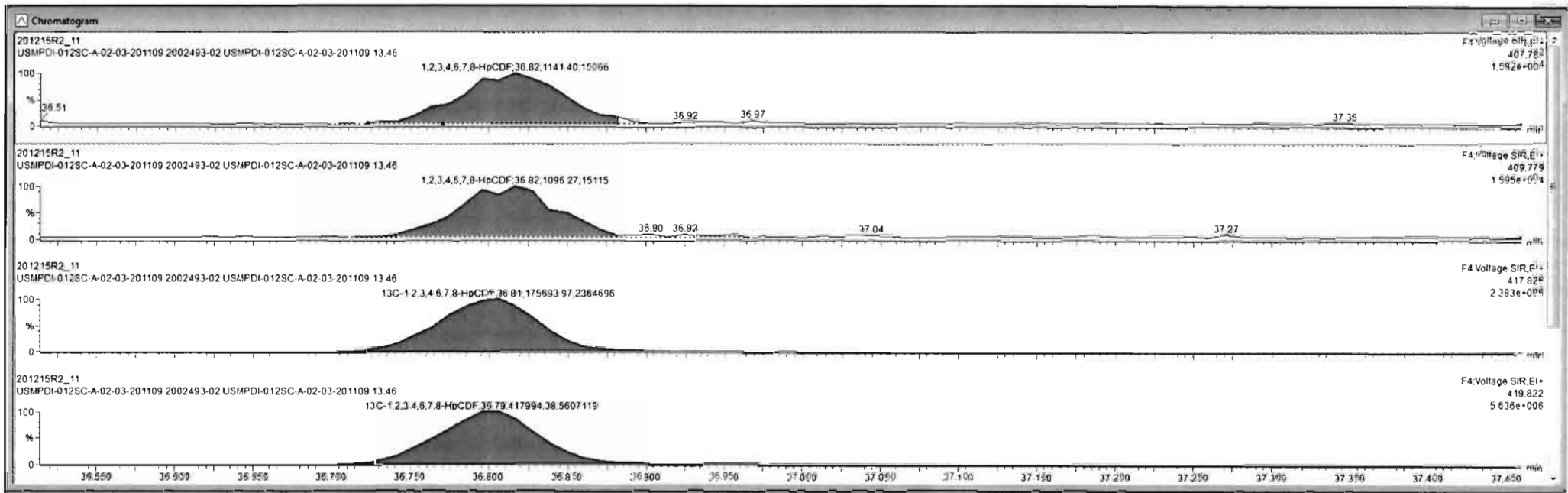


DPE4



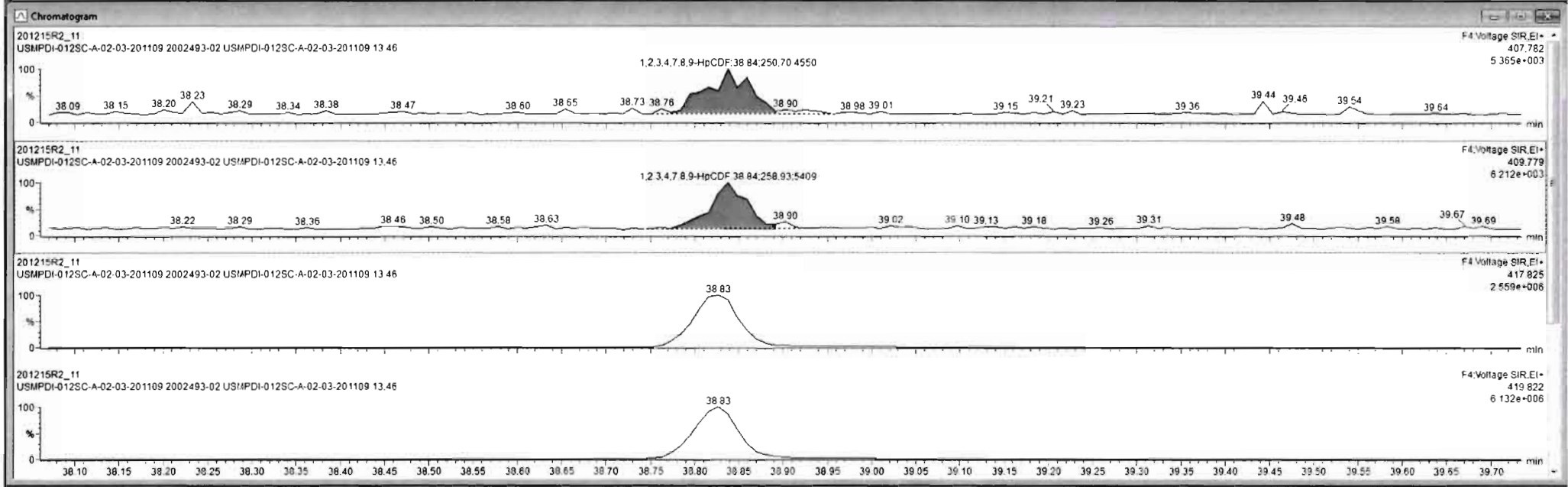
Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				1.05	10.145			1.71		0.0516	1.71
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 CPE1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.82	1.141e3	1.096e3	1.04	NO	0.70819	0.70819
2 Total Hepta-Furans	37.54	1.273e3	1.186e3	1.07	NO	0.83494	0.83494
3 1,2,3,4,7,8,9-HpCDF	38.84	2.507e2	2.589e2	0.97	NO	0.16648	0.16648



Name	Resp	RA	n/y	RRF	wt%	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				1.05	10.145			1.71		0.0516	1.71
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.82	1.141e3	1.096e3	1.04	NO	0.70819	0.70819
2 Total Hepta-Furans	37.54	1.273e3	1.186e3	1.07	NO	0.83494	0.83494
3 1,2,3,4,7,8,9-HpCDF	38.84	2.507e2	2.589e2	0.97	NO	0.16648	0.16648



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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:06:08 AM Pacific Standard Time

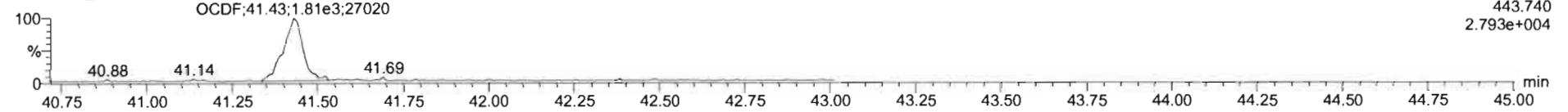
Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

OCDF

201215R2_11

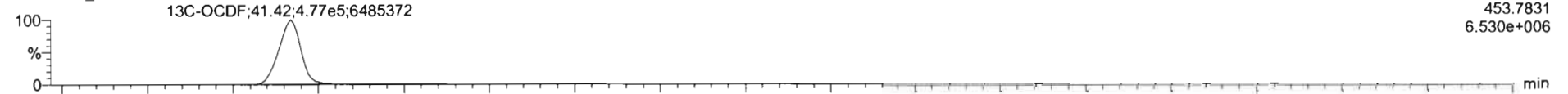


201215R2_11

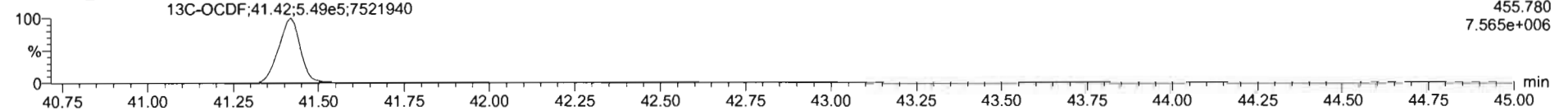


13C-OCDF

201215R2_11

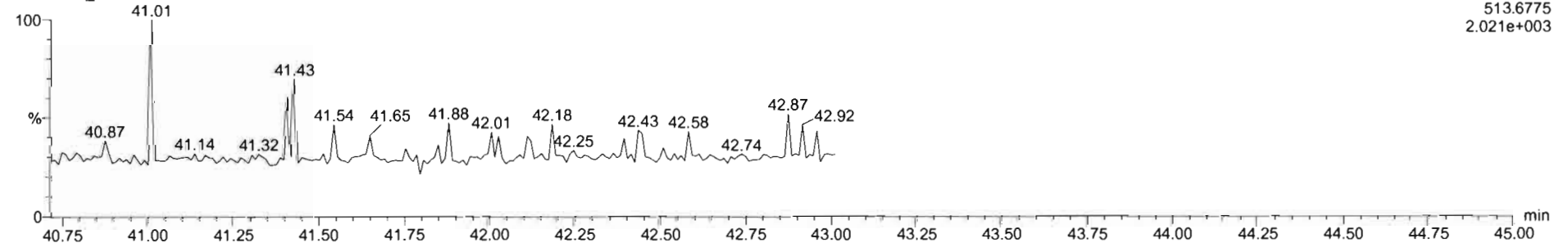


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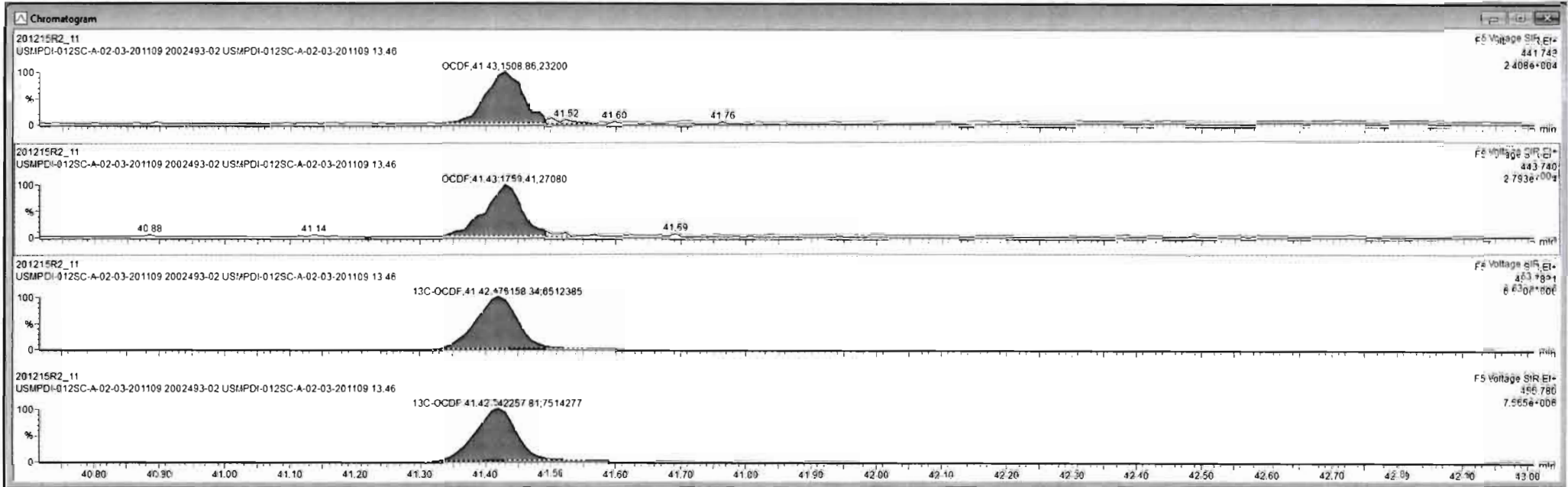
DPE5

201215R2_11



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCCF	3.27e3	0.86	NO	0.90	10.145	41.43	1.000	1.41	0.0774	1.41
18	13C-2,3,7,8-TCDD	1.17e6	0.77	NO	1.06	10.145	26.35	1.030	222	112	0.128
19	13C-1,2,3,7,8-PeCDD	9.08e5	0.62	NO	0.78	10.145	31.03	1.213	231	117	0.153
20	13C-1,2,3,4,7,8-HxCDD	7.28e5	1.28	NO	0.62	10.145	34.35	1.014	268	136	0.456
21	13C-1,2,3,6,7,8-HxCDD	8.21e5	1.25	NO	0.73	10.145	34.46	1.017	256	130	0.385
22	13C-1,2,3,7,8,9-HxCDD	7.87e5	1.24	NO	0.72	10.145	34.74	1.025	243	123	0.391
23	13C-1,2,3,4,6,7,8-HpCDD	6.68e5	1.04	NO	0.57	10.145	38.21	1.128	269	137	0.792

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



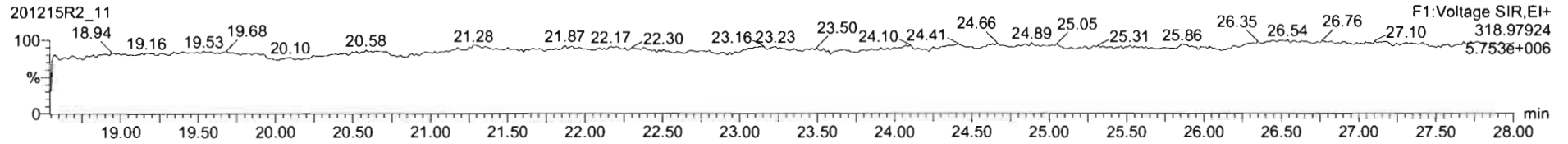
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Last Altered: Wednesday, December 16, 2020 7:04:18 AM Pacific Standard Time

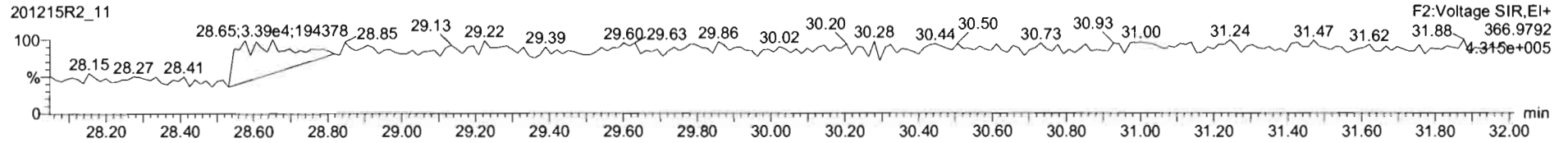
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Name: 201215R2_11, Date: 16-Dec-2020, Time: 00:27:50, ID: 2002493-02 USMPDI-012SC-A-02-03-201109 13.46, Description: USMPDI-012SC-A-02-03-201109

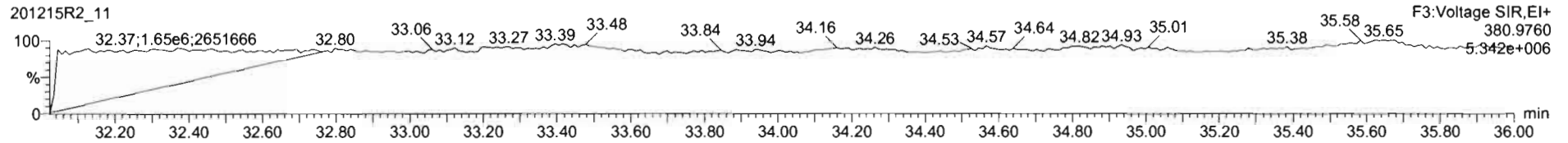
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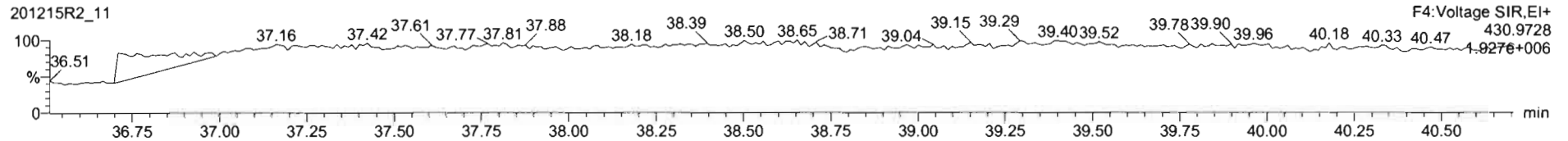
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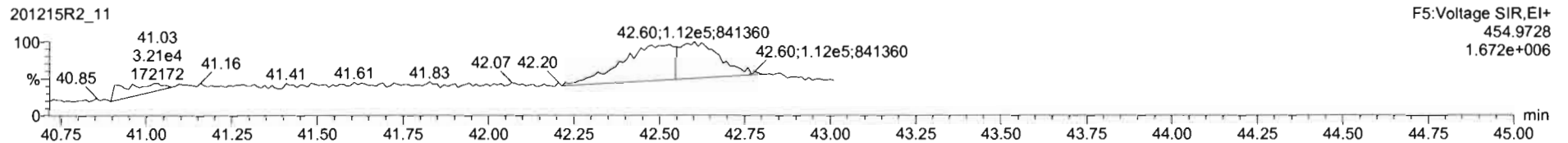
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_5.qld

Last Altered: Tuesday, December 22, 2020 11:30:59 AM Pacific Standard Time
Printed: Tuesday, December 22, 2020 11:33:34 AM Pacific Standard Time

HN 12/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

*MW
12/22/20*

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109

#	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												0.0209	
2	2 1,2,3,7,8-PeCDD	2.62e2	0.67	NO	0.932	10.800	31.064	31.05	1.001	1.000	0.054894		0.0412	0.0549
3	3 1,2,3,4,7,8-HxCDD				1.02	10.800	34.368		1.001				0.0298	
4	4 1,2,3,6,7,8-HxCDD	3.66e2	0.97	YES	0.902	10.800	34.484	34.47	1.001	1.000	0.091533		0.0557	0.0815
5	5 1,2,3,7,8,9-HxCDD	3.31e2	1.03	YES	0.954	10.800	34.745	34.76	1.000	1.001	0.081622		0.0549	0.0750
6	6 1,2,3,4,6,7,8-HpCDD	5.00e3	0.92	NO	0.918	10.800	38.212	38.21	1.000	1.000	1.5542		0.125	1.55
7	7 OCDD	5.06e4	0.85	NO	0.866	10.800	41.113	41.12	1.000	1.000	24.884		0.0658	24.9
8	8 2,3,7,8-TCDF	1.45e3	0.75	NO	0.848	10.800	25.672	25.68	1.000	1.001	0.21479		0.0244	0.215
9	9 1,2,3,7,8-PeCDF	2.43e3	1.72	NO	0.960	10.800	29.785	29.80	1.000	1.001	0.35210		0.0244	0.352
10	10 2,3,4,7,8-PeCDF	1.16e3	1.56	NO	1.07	10.800	30.859	30.87	1.001	1.001	0.15702		0.0232	0.157
11	11 1,2,3,4,7,8-HxCDF	2.73e3	1.09	NO	0.986	10.800	33.446	33.45	1.000	1.000	0.60260		0.0243	0.603
12	12 1,2,3,6,7,8-HxCDF	7.06e2	1.15	NO	1.04	10.800	33.592	33.57	1.001	1.000	0.15037		0.0252	0.150
13	13 2,3,4,6,7,8-HxCDF	2.52e2	1.36	NO	1.02	10.800	34.253	34.25	1.001	1.001	0.056750		0.0274	0.0568
14	14 1,2,3,7,8,9-HxCDF	3.06e2	1.29	NO	0.991	10.800	35.238	35.22	1.000	1.000	0.074846		0.0322	0.0748
15	15 1,2,3,4,6,7,8-HpCDF	1.54e3	1.13	NO	1.05	10.800	36.814	36.82	1.000	1.001	0.49219		0.0478	0.492
16	16 1,2,3,4,7,8,9-HpCDF	5.67e2	0.98	NO	1.18	10.800	38.828	38.83	1.000	1.000	0.18769		0.0379	0.188
17	17 OCDF	2.62e3	0.81	NO	0.896	10.800	41.407	41.40	1.000	1.000	1.1686		0.0581	1.17
18	18 13C-2,3,7,8-TCDD	1.19e6	0.78	NO	1.06	10.800	26.353	26.35	1.030	1.030	209.28	113	0.104	
19	19 13C-1,2,3,7,8-PeCDD	9.47e5	0.63	NO	0.785	10.800	31.192	31.03	1.219	1.213	224.29	121	0.192	
20	20 13C-1,2,3,4,7,8-HxCDD	7.30e5	1.27	NO	0.621	10.800	34.337	34.35	1.014	1.014	253.74	137	0.414	
21	21 13C-1,2,3,6,7,8-HxCDD	8.21e5	1.28	NO	0.734	10.800	34.459	34.46	1.017	1.017	241.34	130	0.350	
22	22 13C-1,2,3,7,8,9-HxCDD	7.85e5	1.24	NO	0.723	10.800	34.743	34.74	1.026	1.025	234.39	127	0.356	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.48e5	1.05	NO	0.568	10.800	38.243	38.20	1.129	1.128	246.26	133	0.828	
24	24 13C-OCDD	8.69e5	0.88	NO	0.496	10.800	41.180	41.10	1.216	1.213	378.09	102	0.800	
25	25 13C-2,3,7,8-TCDF	1.47e6	0.77	NO	0.919	10.800	25.652	25.67	1.003	1.003	218.42	118	0.132	
26	26 13C-1,2,3,7,8-PeCDF	1.33e6	1.56	NO	0.715	10.800	29.903	29.78	1.169	1.164	254.18	137	0.424	
27	27 13C-2,3,4,7,8-PeCDF	1.28e6	1.60	NO	0.689	10.800	30.990	30.84	1.212	1.206	253.36	137	0.441	
28	28 13C-1,2,3,4,7,8-HxCDF	8.51e5	0.50	NO	0.873	10.800	33.442	33.44	0.987	0.987	210.16	113	0.427	
29	29 13C-1,2,3,6,7,8-HxCDF	8.36e5	0.50	NO	0.933	10.800	33.571	33.57	0.991	0.991	193.24	104	0.399	
30	30 13C-2,3,4,6,7,8-HxCDF	8.06e5	0.50	NO	0.843	10.800	34.238	34.23	1.011	1.011	206.16	111	0.442	
31	31 13C-1,2,3,7,8,9-HxCDF	7.63e5	0.50	NO	0.780	10.800	35.238	35.23	1.040	1.040	210.93	114	0.478	

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_5.qld

Last Altered: Tuesday, December 22, 2020 11:30:59 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 11:33:34 AM Pacific Standard Time

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109

#	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	5.52e5	0.42	NO	0.726	10.800	36.813	36.80	1.087	1.086	163.86	88.5	0.580	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.76e5	0.43	NO	0.491	10.800	38.822	38.82	1.146	1.146	209.05	113	0.857	
34	34 13C-OCDF	9.26e5	0.88	NO	0.565	10.800	41.396	41.40	1.222	1.222	353.34	95.4	0.560	
35	35 37Cl-2,3,7,8-TCDD	5.12e5			1.22	10.800	26.347	26.36	1.030	1.031	78.174	106	0.0236	
36	36 13C-1,2,3,4-TCDD	9.96e5	0.78	NO	1.00	10.800	25.640	25.58	1.000	1.000	185.18	100	0.110	
37	37 13C-1,2,3,4-TCDF	1.36e6	0.78	NO	1.00	10.800	24.130	24.09	1.000	1.000	185.18	100	0.121	
38	38 13C-1,2,3,4,6,9-HxCDF	8.59e5	0.50	NO	1.00	10.800	33.920	33.88	1.000	1.000	185.18	100	0.373	
39	39 Total Tetra-Dioxins				0.980	10.800	24.620		0.000		0.028855		0.00901	0.114
40	40 Total Penta-Dioxins				0.932	10.800	29.960		0.000		0.12073		0.0412	0.173
41	41 Total Hexa-Dioxins				0.902	10.800	33.635		0.000		0.54294		0.0582	1.01
42	42 Total Hepta-Dioxins				0.918	10.800	37.640		0.000		3.9756		0.125	3.98
43	43 Total Tetra-Furans				0.848	10.800	23.610		0.000		0.48651		0.0244	0.539
44	44 1st Func. Penta-Furans				0.960	10.800	26.930		0.000		0.11009		0.00899	0.110
45	45 Total Penta-Furans				0.960	10.800	29.275		0.000		0.72718		0.0251	0.839
46	46 Total Hexa-Furans				1.02	10.800	33.555		0.000		1.0286		0.0268	1.24
47	47 Total Hepta-Furans				1.05	10.800	37.835		0.000		1.2233		0.0454	1.22

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_5.qld

Last Altered: Tuesday, December 22, 2020 11:30:59 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 11:33:34 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.28	2.411e3	3.919e3	1.396e2	2.583e2	0.54	YES	0.000e0	0.00000	0.050992	0.0209
2	Total Tetra-Dioxins	26.69	2.046e3	3.723e3	9.463e1	1.521e2	0.62	YES	0.000e0	0.00000	0.034575	0.00901
3	Total Tetra-Dioxins	27.25	2.153e3	1.663e3	8.354e1	9.800e1	0.85	NO	1.815e2	0.028855	0.028855	0.00901

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.80	2.220e3	2.633e3	1.285e2	1.852e2	0.69	NO	3.137e2	0.065835	0.065835	0.0412
2	Total Penta-Dioxins	29.27	4.389e3	3.486e3	1.368e2	1.524e2	0.90	YES	0.000e0	0.00000	0.052123	0.0412
3	1,2,3,7,8-PeCDD	31.05	2.325e3	3.231e3	1.048e2	1.568e2	0.67	NO	2.615e2	0.054894	0.054894	0.0412

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.71	2.560e4	1.932e4	1.191e3	8.703e2	1.37	NO	2.061e3	0.54294	0.54294	0.0582
2	Total Hexa-Dioxins	33.57	1.449e4	8.288e3	1.010e3	5.293e2	1.91	YES	0.000e0	0.00000	0.31228	0.0582
3	1,2,3,6,7,8-HxCDD	34.47	3.601e3	3.071e3	1.806e2	1.858e2	0.97	YES	3.664e2	0.00000	0.081506	0.0557
4	1,2,3,7,8,9-HxCDD	34.76	3.685e3	3.030e3	1.680e2	1.632e2	1.03	YES	3.311e2	0.00000	0.074973	0.0549

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.19	5.388e4	5.185e4	3.949e3	3.834e3	1.03	NO	7.782e3	2.4214	2.4214	0.125
2	1,2,3,4,6,7,8-HpCDD	38.21	4.156e4	4.508e4	2.395e3	2.600e3	0.92	NO	4.995e3	1.5542	1.5542	0.125

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_5.qld

Last Altered: Tuesday, December 22, 2020 11:30:59 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 11:33:34 AM Pacific Standard Time

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	22.62	1.838e3	3.667e3	1.533e2	2.592e2	0.59	YES	0.000e0	0.00000	0.052306	0.0244
2	Total Tetra-Furans	24.65	8.826e3	1.176e4	6.340e2	8.004e2	0.79	NO	1.434e3	0.21285	0.21285	0.0244
3	Total Tetra-Furans	25.55	2.786e3	3.174e3	1.707e2	2.261e2	0.75	NO	3.968e2	0.058880	0.058880	0.0244
4	2,3,7,8-TCDF	25.68	8.360e3	1.343e4	6.193e2	8.282e2	0.75	NO	1.447e3	0.21479	0.21479	0.0244

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	27.18	8.843e3	4.772e3	4.601e2	2.849e2	1.61	NO	7.450e2	0.11009	0.11009	0.00899

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.79	6.745e3	6.074e3	2.564e2	2.443e2	1.05	YES	0.000e0	0.00000	0.062345	0.0251
2	Total Penta-Furans	28.82	1.448e4	1.097e4	5.668e2	3.695e2	1.53	NO	9.364e2	0.13837	0.13837	0.0251
3	Total Penta-Furans	29.43	5.107e3	3.274e3	2.046e2	1.848e2	1.11	YES	0.000e0	0.00000	0.049729	0.0251
4	1,2,3,7,8-PeCDF	29.80	2.731e4	1.551e4	1.539e3	8.931e2	1.72	NO	2.432e3	0.35210	0.35210	0.0244
5	Total Penta-Furans	30.05	8.433e3	3.629e3	3.391e2	2.003e2	1.69	NO	5.393e2	0.079695	0.079695	0.0251
6	2,3,4,7,8-PeCDF	30.87	1.226e4	8.486e3	7.046e2	4.527e2	1.56	NO	1.157e3	0.15702	0.15702	0.0232

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	2.679e3	3.271e3	9.456e1	1.013e2	0.93	YES	0.000e0	0.00000	0.038087	0.0268
2	Total Hexa-Furans	32.35	7.974e3	6.493e3	3.355e2	3.103e2	1.08	NO	6.458e2	0.14400	0.14400	0.0268
3	Total Hexa-Furans	32.98	9.665e3	5.524e3	4.541e2	2.710e2	1.68	YES	0.000e0	0.00000	0.13537	0.0268
4	1,2,3,4,7,8-HxCDF	33.45	2.988e4	2.481e4	1.422e3	1.308e3	1.09	NO	2.731e3	0.60260	0.60260	0.0243
5	1,2,3,6,7,8-HxCDF	33.57	7.086e3	6.588e3	3.778e2	3.278e2	1.15	NO	7.056e2	0.15037	0.15037	0.0252
6	2,3,4,6,7,8-HxCDF	34.25	2.347e3	1.800e3	1.450e2	1.070e2	1.36	NO	2.520e2	0.056750	0.056750	0.0274
7	1,2,3,7,8,9-HxCDF	35.22	3.895e3	3.148e3	1.721e2	1.334e2	1.29	NO	3.055e2	0.074846	0.074846	0.0322
8	Total Hexa-Furans	35.28	2.963e3	3.601e3	8.250e1	1.022e2	0.81	YES	0.000e0	0.00000	0.033231	0.0268

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_5.qld

Last Altered: Tuesday, December 22, 2020 11:30:59 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 11:33:34 AM Pacific Standard Time

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109

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	36.82	1.237e4	1.050e4	8.160e2	7.233e2	1.13	NO	1.539e3	0.49219	0.49219	0.0478
2	Total Hepta-Furans	37.54	1.283e4	1.233e4	7.651e2	8.174e2	0.94	NO	1.583e3	0.54339	0.54339	0.0454
3	1,2,3,4,7,8,9-HpCDF	38.83	6.264e3	5.541e3	2.805e2	2.869e2	0.98	NO	5.674e2	0.18769	0.18769	0.0379

Dataset: Untitled

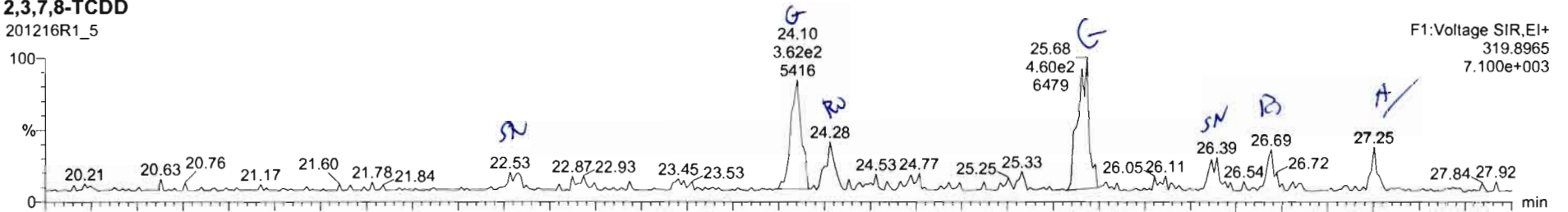
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time

Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109

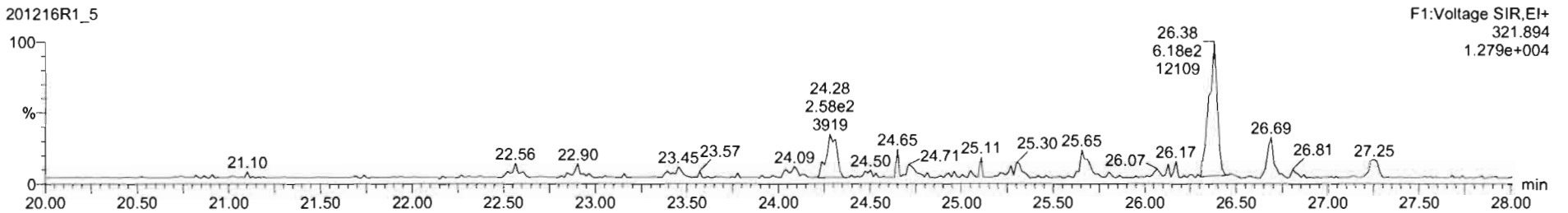
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201216R1_5



F1:Voltage SIR,EI+
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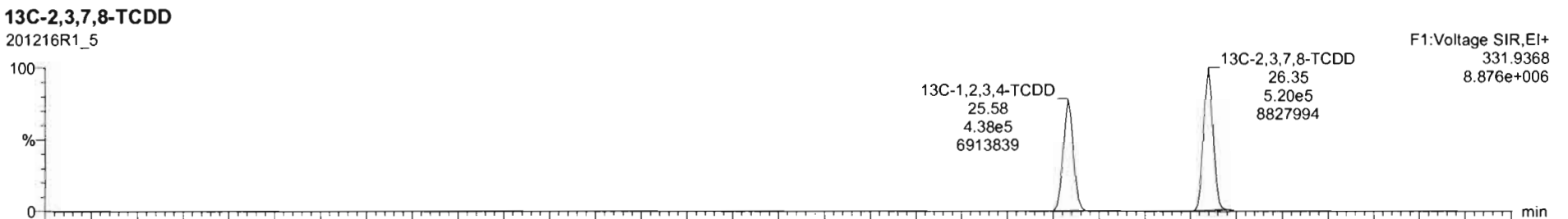
201216R1_5



F1:Voltage SIR,EI+
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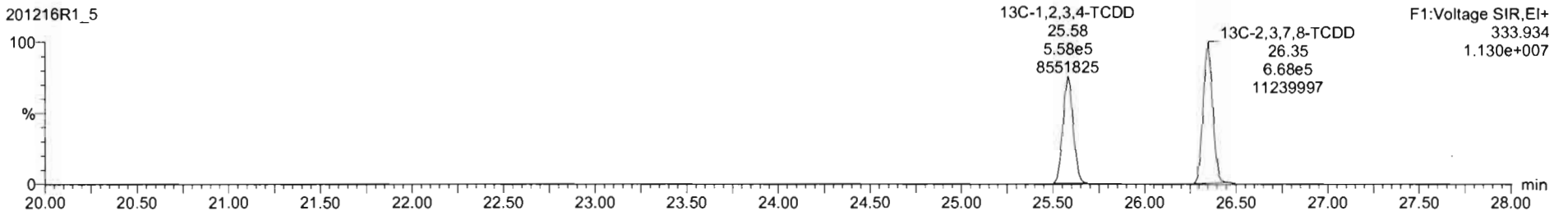
13C-2,3,7,8-TCDD

201216R1_5



F1:Voltage SIR,EI+
331.9368
8.876e+006

201216R1_5



F1:Voltage SIR,EI+
333.934
1.130e+007

Dataset: Untitled

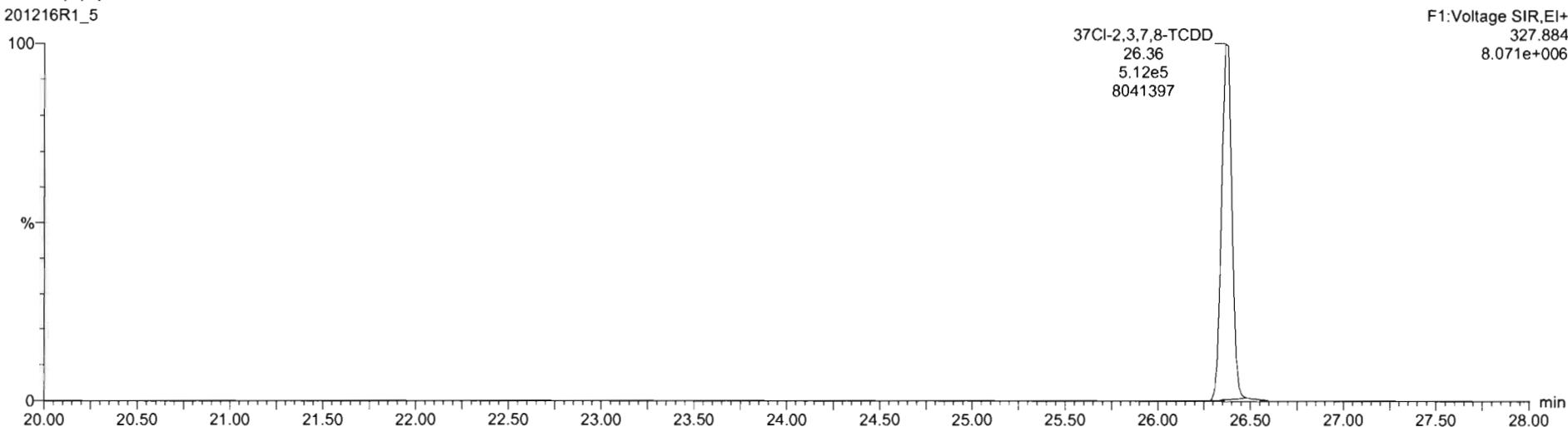
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109

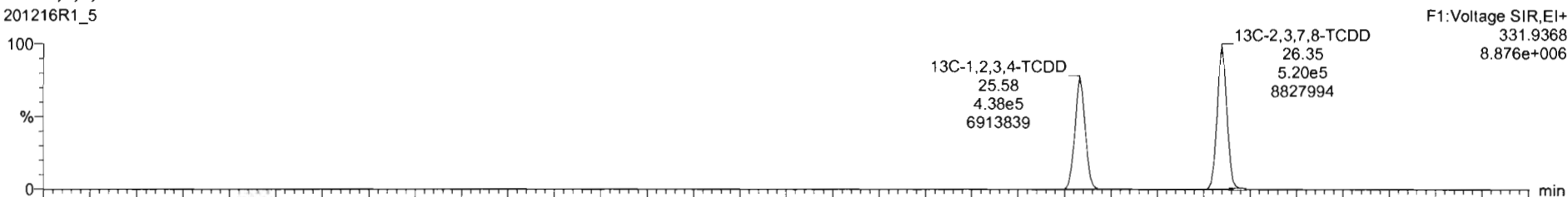
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201216R1_5

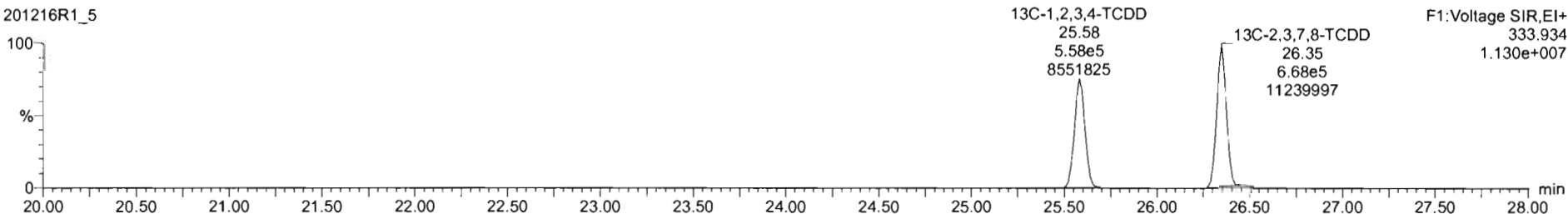


13C-1,2,3,4-TCDD

201216R1_5



201216R1_5



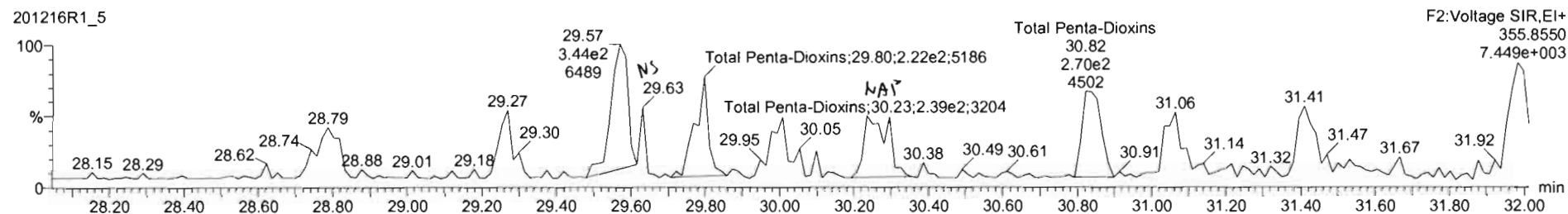
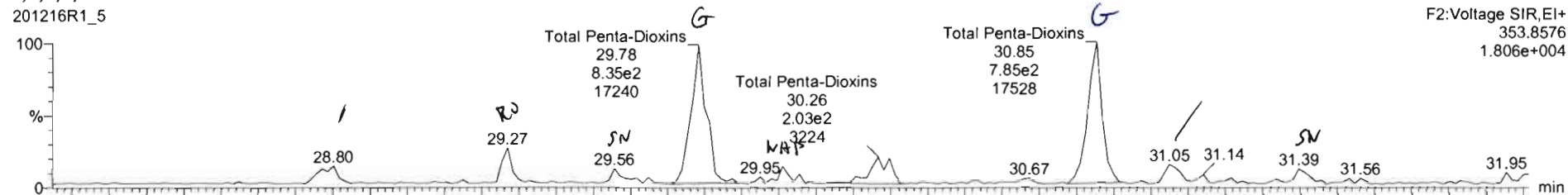
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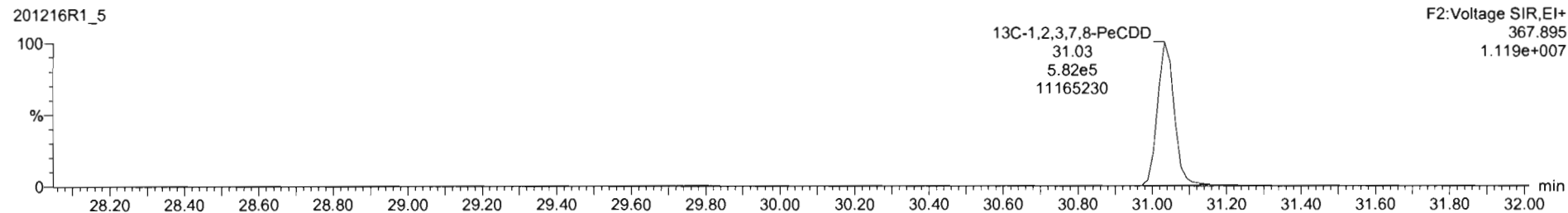
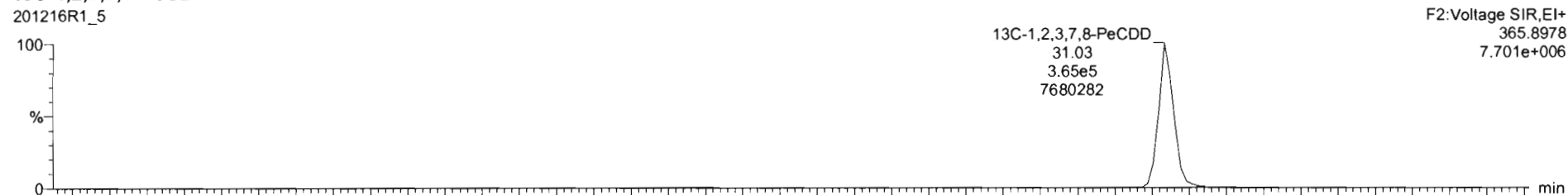
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1,2,3,7,8-PeCDD

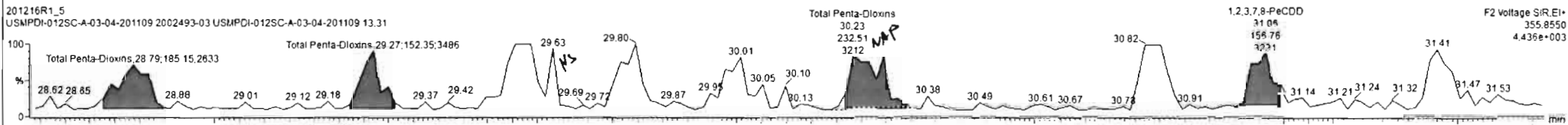
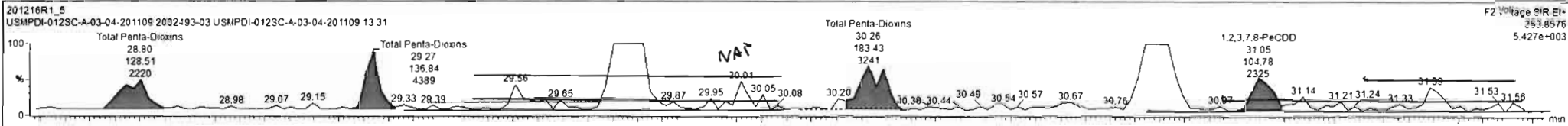


13C-1,2,3,7,8-PeCDD



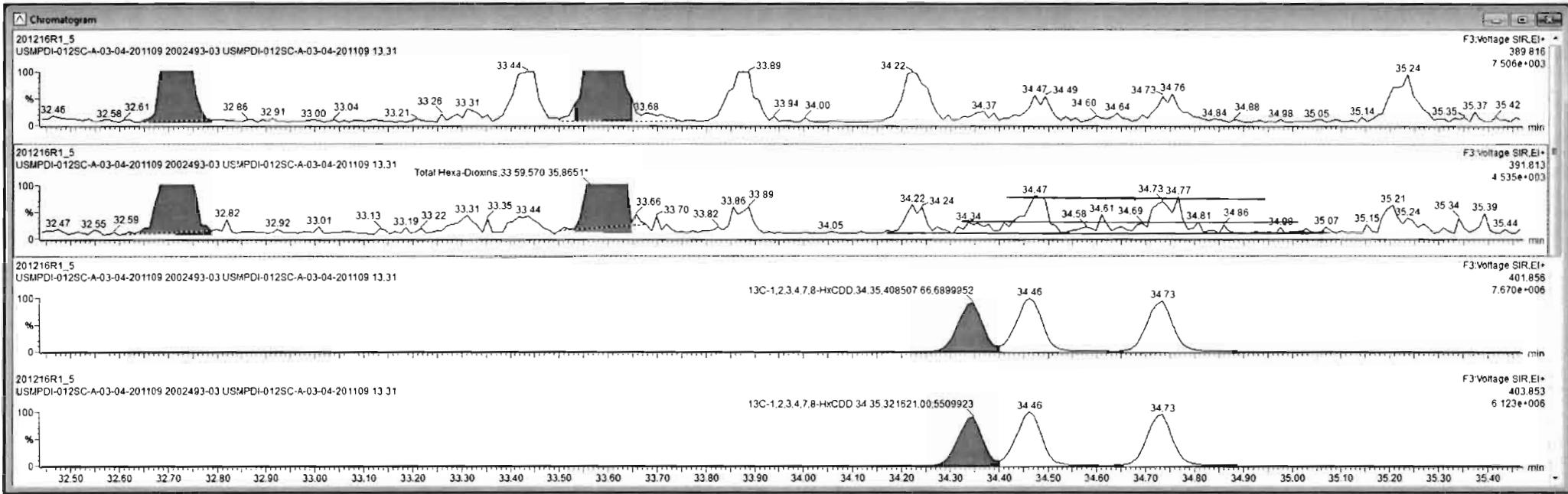
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	8.59e5	0.50	NO	1.0000	10.800	33.68	1.000	185	100	0.373	
39 Total Tetra-Dioxins				0.9605	10.800			0.0289		0.00901	0.114
40 Total Penta-Dioxins				0.9320	10.800			0.121		0.0412	0.252
41 Total Hexa-Dioxins				0.9025	10.800			0.543		0.0582	0.093
42 Total Hepta-Dioxins				0.9180	10.800			3.93		0.125	3.93
43 Total Tetra-Furans				0.8480	10.800			0.423		0.0244	0.423
44 1st Func. Penta-Furans				0.9597	10.800			0.110		0.00899	0.110

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.80	1.285e2	1.852e2	0.69	NO	0.065835	0.065835
2 Total Penta-Dioxins	29.27	1.368e2	1.524e2	0.90	YES	0.052123	0.00000
3 Total Penta-Dioxins	30.26	1.834e2	2.325e2	0.79	YES	0.079545	0.00900
4 1,2,3,7,8-PeCDD	31.05	1.046e2	1.568e2	0.67	NO	0.054894	0.054894



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	8.59e5	0.50	NO	1.0990	10.800	33.88	1.000	185	100	0.373	
39 Total Tetra-Dioxins				0.9605	10.800			0.0289		0.00901	0.114
40 Total Penta-Dioxins				0.8320	10.800			0.121		0.0412	0.173
41 Total Hexa-Dioxins				0.5025	10.800			0.553		0.0582	0.887
42 Total Hepta-Dioxins				0.9180	10.800			3.93		0.125	3.93
43 Total Tetra-Furans				0.8480	10.800			0.423		0.0244	0.423
44 1st Func. Penta-Furans				0.9597	10.800			0.110		0.00899	0.110

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.71	1.191e3	9.090e2	1.31	NO	0.55312	0.55312
2 Total Hexa-Dioxins	33.57	1.036e3	5.666e2	1.83	YES	0.33431	0.00000



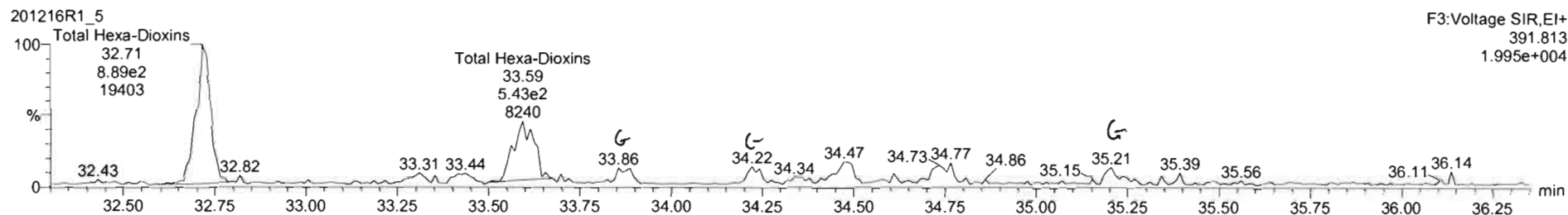
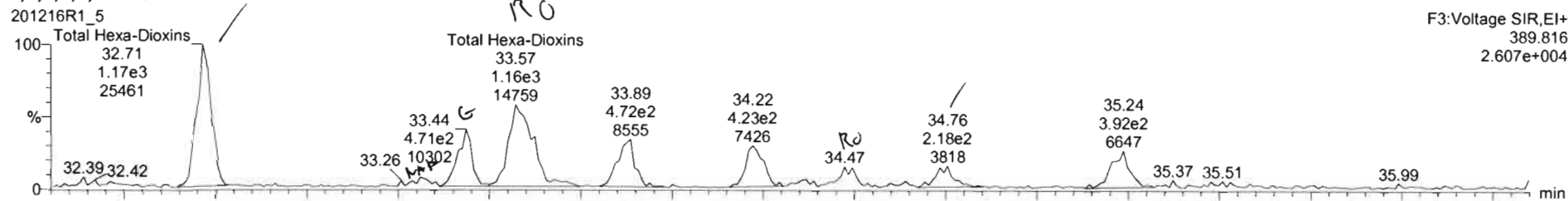
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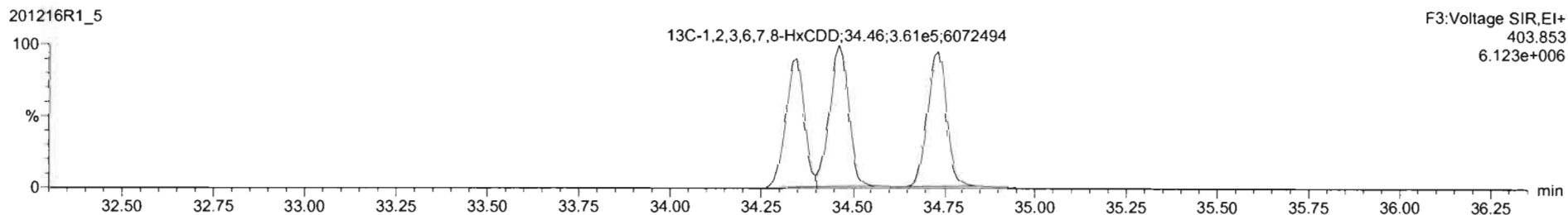
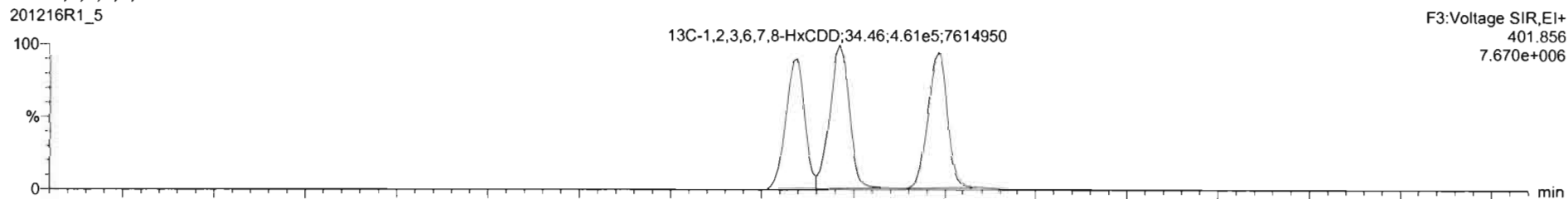
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Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109

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

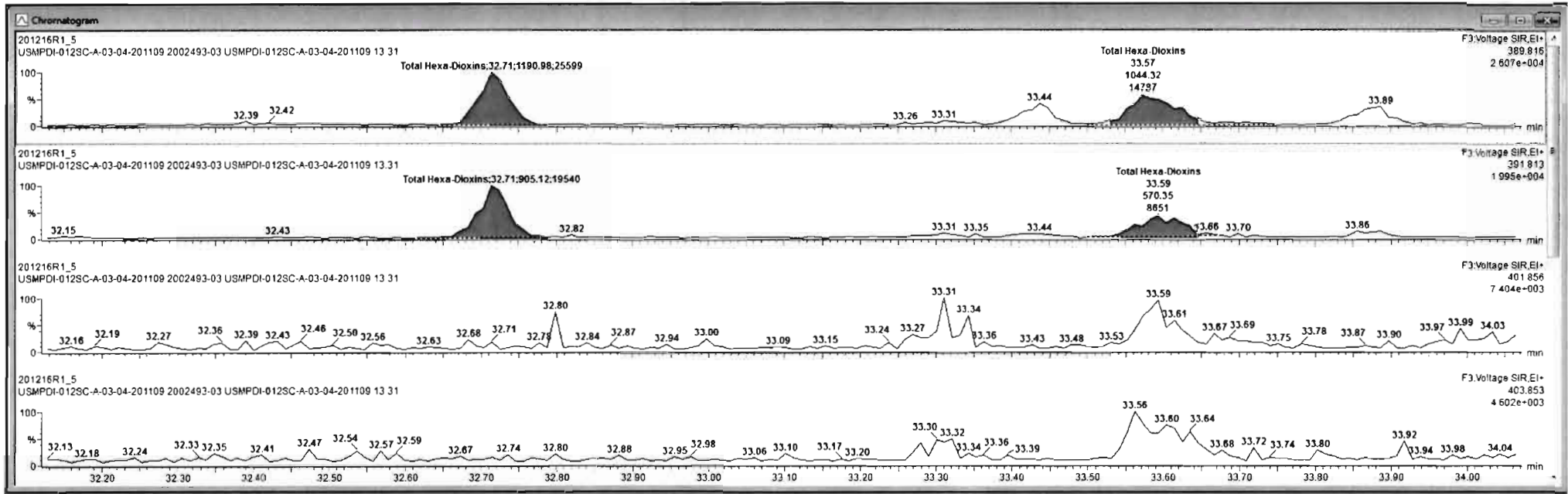


13C-1,2,3,4,7,8-HxCDD



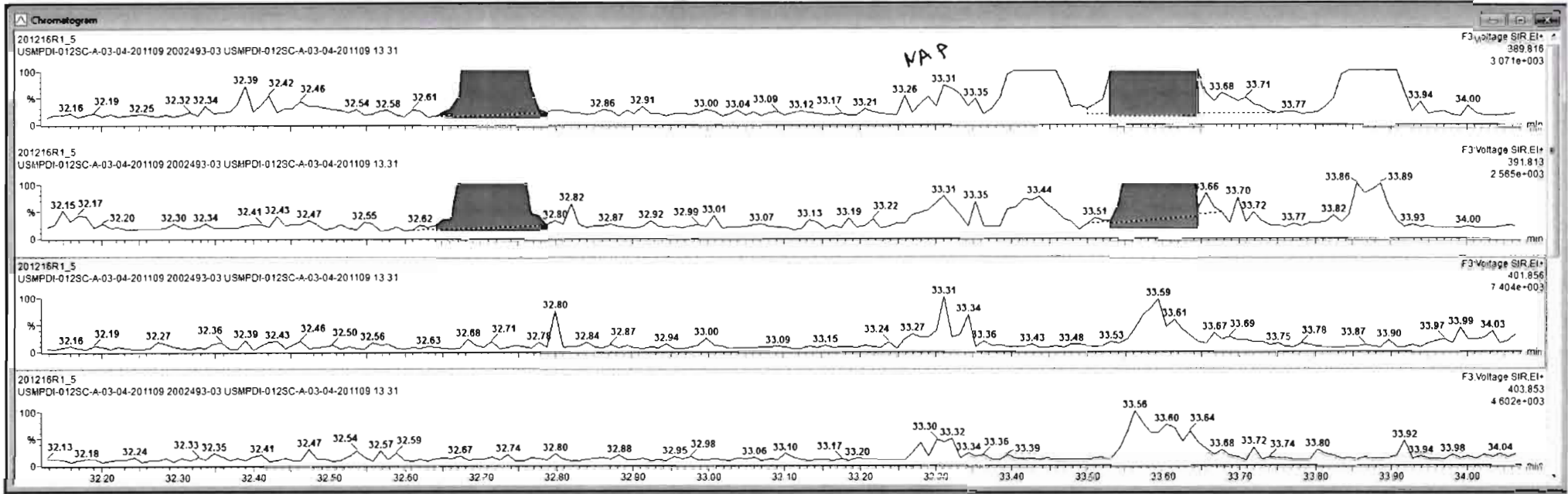
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	9.96e5	0.78	NO	1.0900	10.600	25.58	1.000	185	100	0.110
37	13C-1,2,3,4-TCDF	1.36e6	0.78	NO	1.0900	10.800	24.09	1.000	185	100	0.121
38	13C-1,2,3,4,6,9-HxCDF	6.59e5	0.50	NO	1.0900	10.800	33.88	1.000	185	100	0.373
39	Total Tetra-Dioxins				0.9805	10.800			0.0289	0.00901	0.114
40	Total Penta-Dioxins				0.9320	10.800			0.121	0.0412	0.173

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	32.71	1.191e3	9.051e2	1.32	NO	0.55210
2	Total Hexa-Dioxins	33.57	1.044e3	5.703e2	1.83	YES	0.33650
3	1,2,3,6,7,8-HxCDD	34.47	1.806e2	1.858e2	0.97	YES	0.081506
4	1,2,3,7,8-HxCDD	34.76	1.792e2	1.832e2	1.10	NO	0.084598



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	9.96e5	0.78	NO	1.0000	10.800	25.58	1.000	185	100	0.110	
37	13C-1,2,3,4-TCDF	1.38e6	0.78	NO	1.0000	10.800	24.09	1.000	185	100	0.121	
38	13C-1,2,3,4,6,9-HxCDF	8.59e5	0.50	NO	1.0000	10.800	33.88	1.000	185	100	0.373	
39	Total Tetra-Dioxins				0.9805	10.800			0.0289		0.00901	0.114
40	Total Penta-Dioxins				0.9320	10.800			0.121		0.0412	0.173

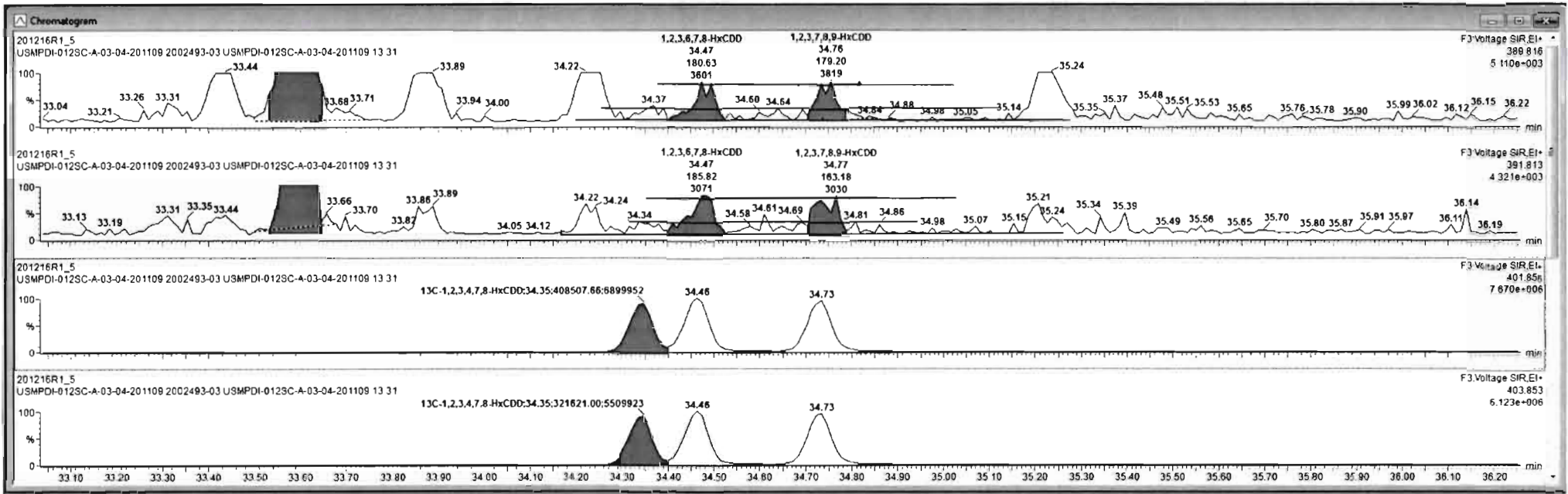
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	32.71	1.191e3	9.051e2	1.32	NO	0.55210	0.55210
2	Total Hexa-Dioxins	33.57	1.044e3	5.703e2	1.83	YES	0.33650	0.00000
3	1,2,3,6,7,8-HxCDD	34.47	1.806e2	1.858e2	0.97	YES	0.081508	0.00000
4	1,2,3,7,8-HxCDD	34.76	1.792e2	1.832e2	1.10	NO	0.084598	0.084598



Ready

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
36	13C-1,2,3,4-TCDD	9.96e5	0.78	NO	1.0000	10.800	25.58	1.000	185	100	0.110
37	13C-1,2,3,4-TCDF	1.36e6	0.78	NO	1.0000	10.800	24.09	1.000	185	100	0.121
38	13C-1,2,3,4,6,9-HxCDF	8.59e5	0.50	NO	1.0000	10.800	33.68	1.000	185	100	0.373
39	Total Tetra-Dioxins				0.9805	10.800			0.0289	0.00901	0.114
40	Total Penta-Dioxins				0.9320	10.800			0.121	0.0412	0.173

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	Total Hexa-Dioxins	32.71	1.191e3	9.051e2	1.32	NO	0.55210	0.55210
2	Total Hexa-Dioxins	33.57	1.044e3	5.703e2	1.83	YES	0.33650	0.00000
3	1,2,3,6,7,8-HxCDD	34.47	1.809e2	1.858e2	0.97	YES	0.081506	0.00000
4	1,2,3,7,8,9-HxCDD	34.76	1.792e2	1.832e2	1.10	NO	0.084598	0.084598



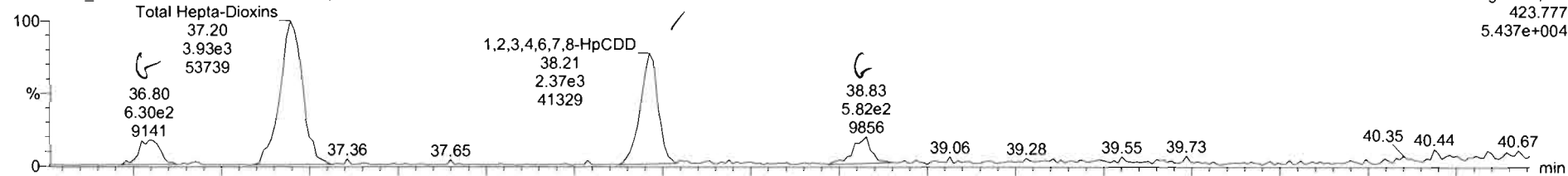
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

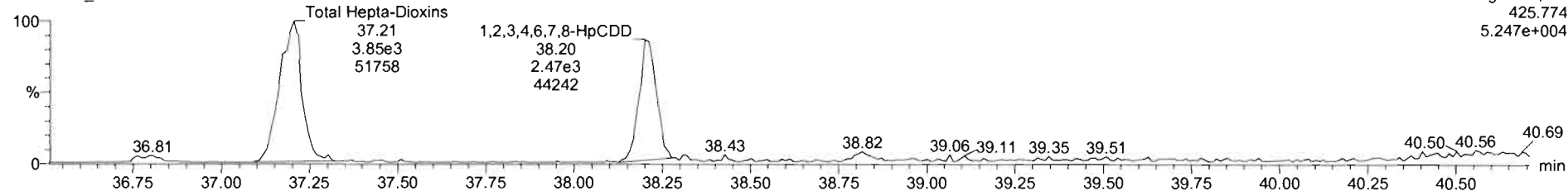
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1,2,3,4,6,7,8-HpCDD

201216R1_5

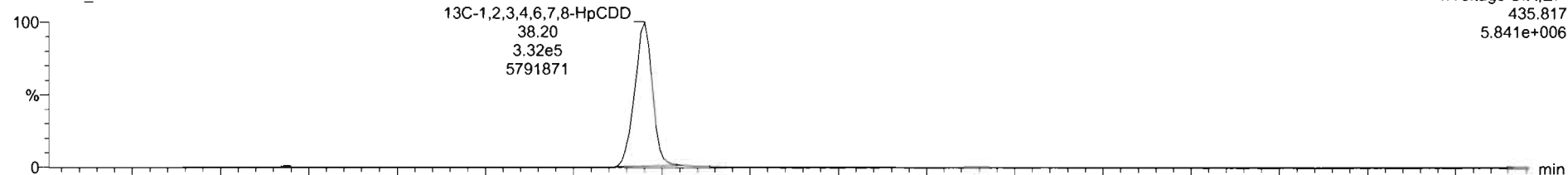


201216R1_5

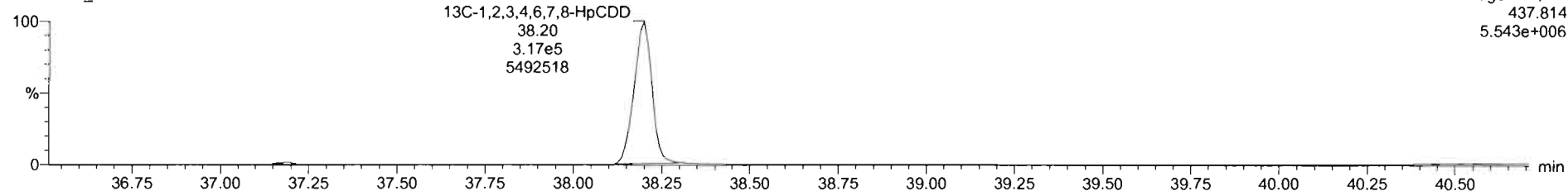


13C-1,2,3,4,6,7,8-HpCDD

201216R1_5

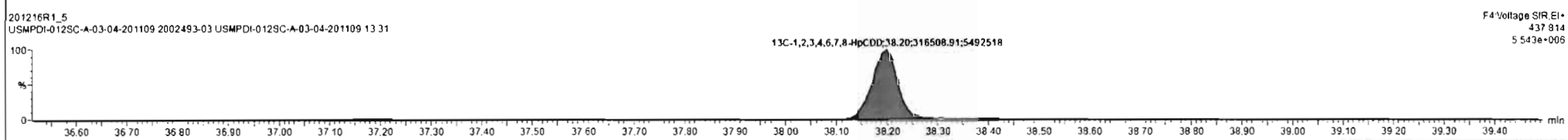
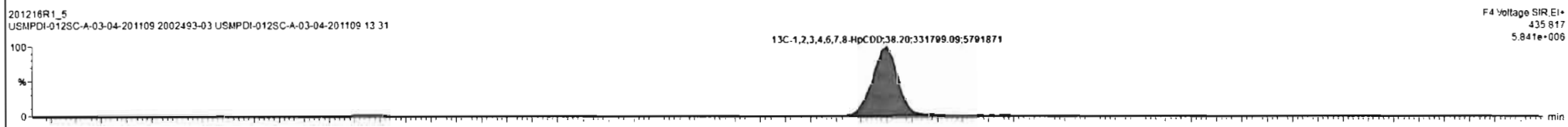
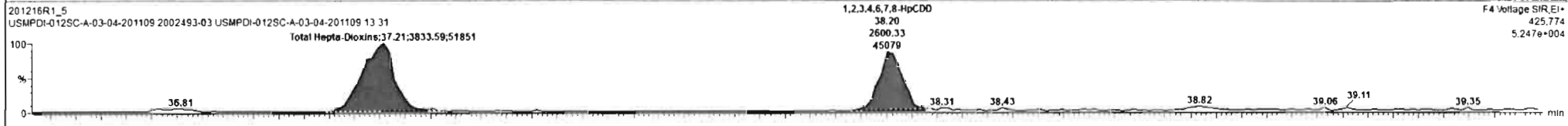
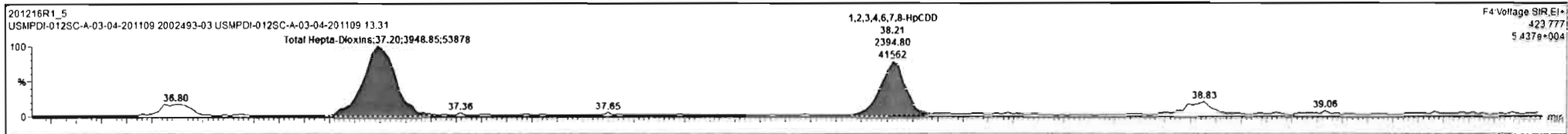


201216R1_5



Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9025	10.800			0.637	0.0582	1.05	
42 Total Hepta-Dioxins				0.9100	10.800			3.98	0.125	3.98	
43 Total Tetra-Furans				0.8480	10.800			0.423	0.0244	0.423	
44 1st Func. Penta-Furans				0.9597	10.800			0.110	0.00899	0.110	
45 Total Penta-Furans				0.9597	10.800			0.165	0.0251	0.563	
46 Total Hexa-Furans				1.0202	10.800			0.899	0.0268	1.03	
47 Total Hepta-Furans				1.0492	10.800			1.22	0.0454	1.22	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.20	3.949e3	3.834e3	1.03	NO	2.4214	2.4214
2 1,2,3,4,6,7,8-HpCDD	38.21	2.395e3	2.600e3	0.92	NO	1.5542	1.5542



Dataset: Untitled

Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time

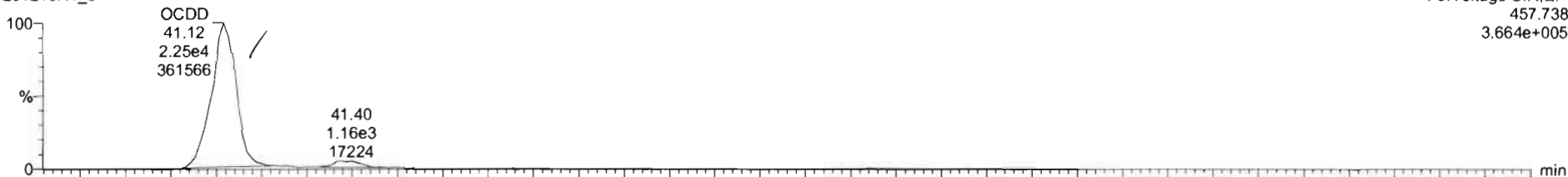
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OCDD

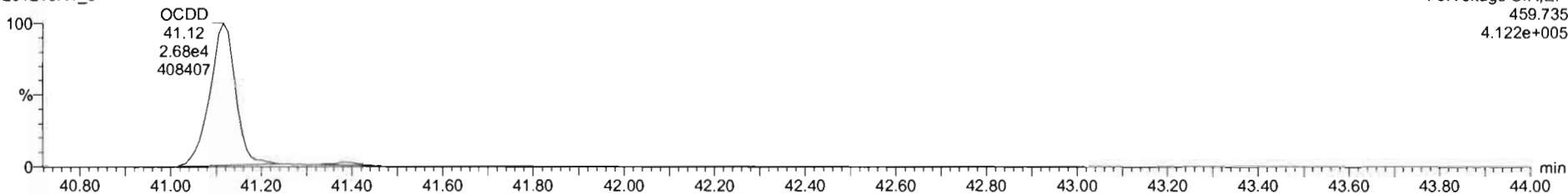
201216R1_5

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3.664e+005



201216R1_5

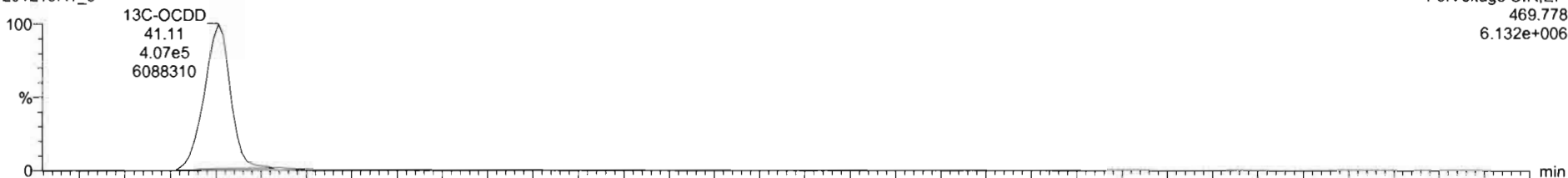
F5:Voltage SIR,EI+
459.735
4.122e+005



13C-OCDD

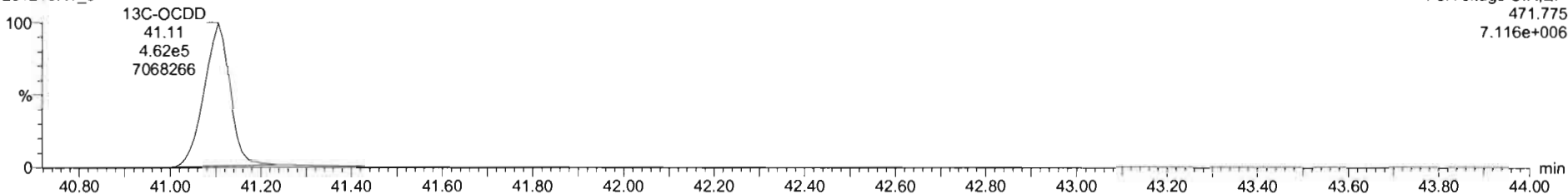
201216R1_5

F5:Voltage SIR,EI+
469.778
6.132e+006



201216R1_5

F5:Voltage SIR,EI+
471.775
7.116e+006



Dataset: Untitled

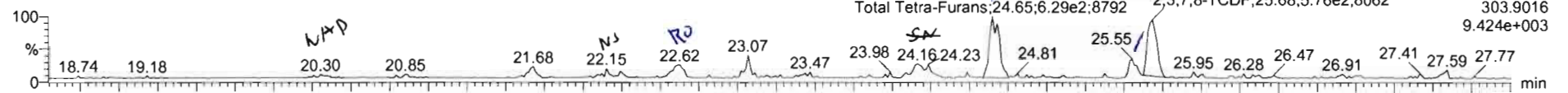
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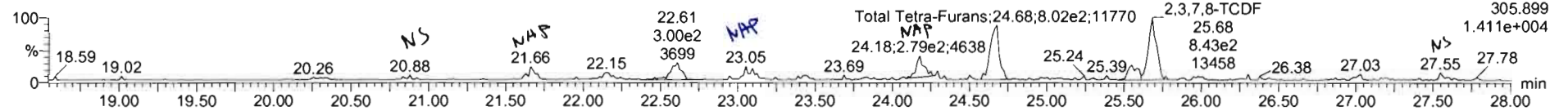
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2,3,7,8-TCDF

201216R1_5

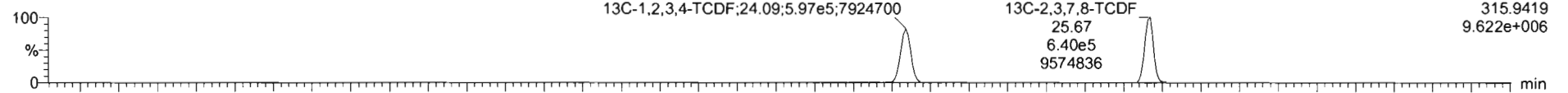


201216R1_5

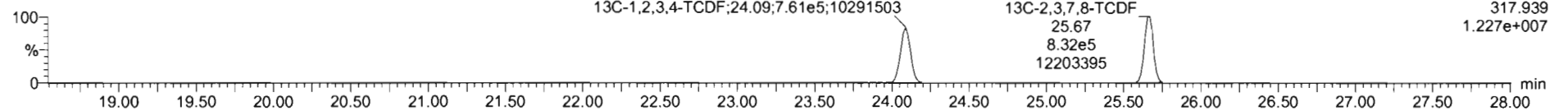


13C-2,3,7,8-TCDF

201216R1_5

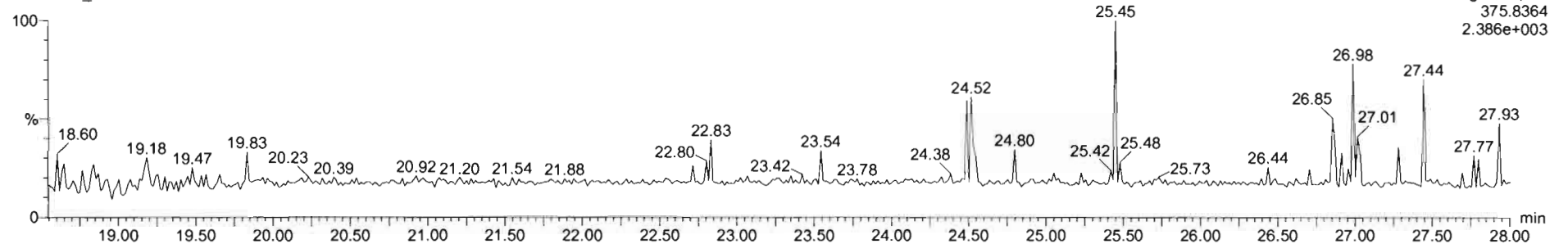


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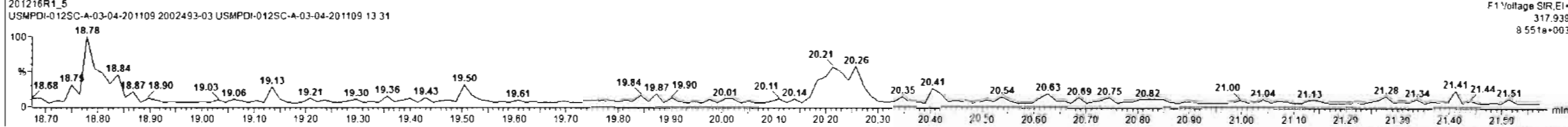
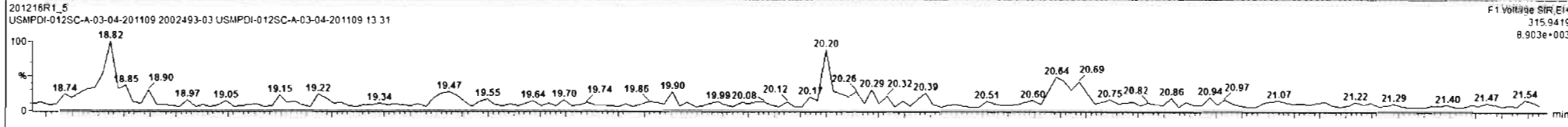
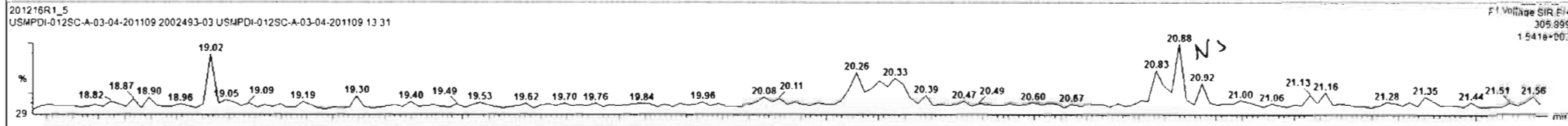
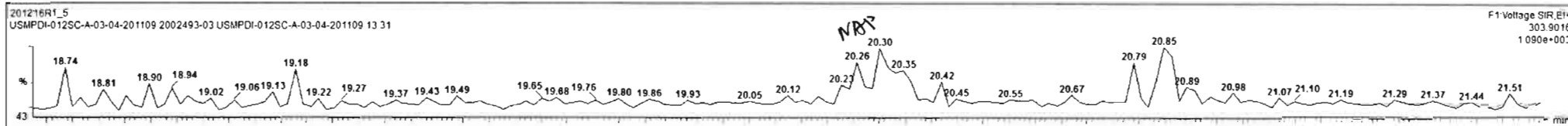
DPE1

201216R1_5



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9805	10.800			0.0289	0.00901	0.114	
40 Total Penta-Dioxins				0.9320	10.800			0.121	0.0412	0.173	
41 Total Hexa-Dioxins				0.9025	10.800			0.637	0.0562	1.05	
42 Total Hepta-Dioxins				0.9180	10.800			3.98	0.125	3.98	
43 Total Tetra-Furans				0.8486	10.800			0.487	0.0244	0.487	
44 1st Func. Penta-Furans				0.9597	10.800			0.110	0.00999	0.110	
45 Total Penta-Furans				0.9597	10.800			0.165	0.0251	0.563	
46 Total Hexa-Furans				1.0702	10.800			0.806	0.0268	1.171	

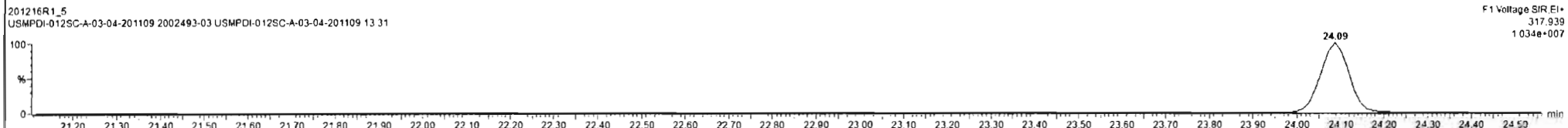
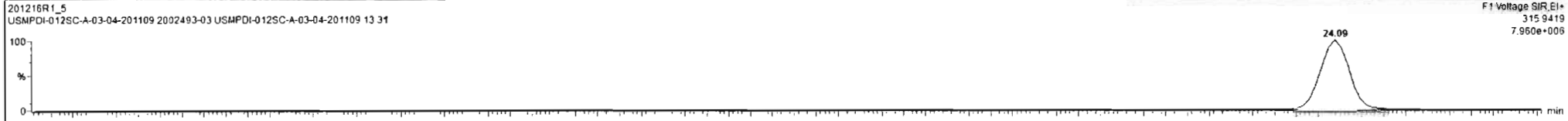
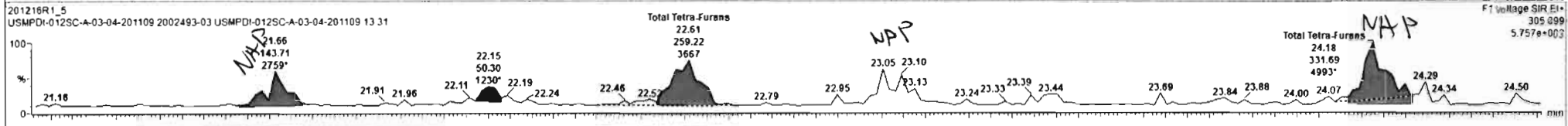
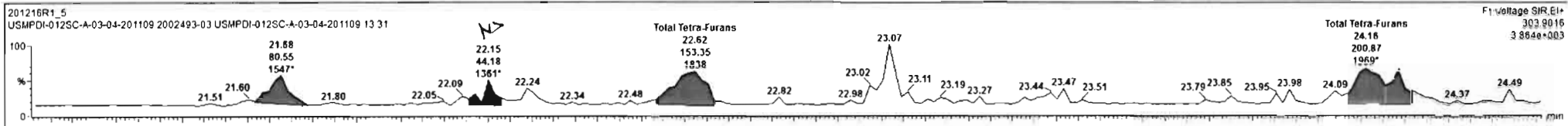
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	24.65	6.340e2	8.004e2	0.79	NO	0.21285	0.21285
2 Total Tetra-Furans	25.55	1.707e2	2.289e2	0.75	NO	0.059290	0.059290
3 2,3,7,8-TCDF	25.68	6.193e2	8.282e2	0.75	NO	0.21479	0.21479



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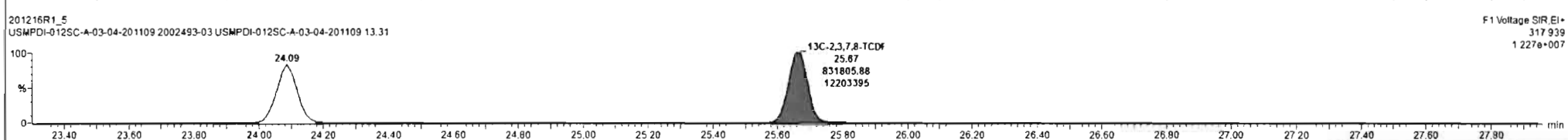
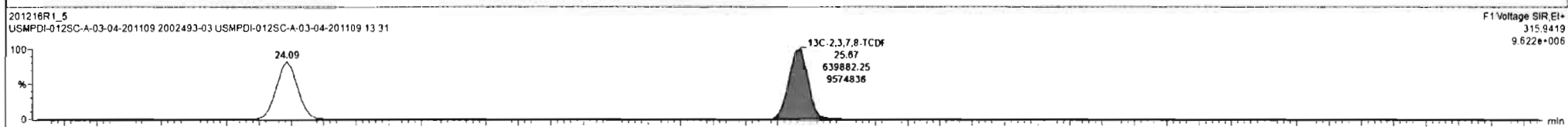
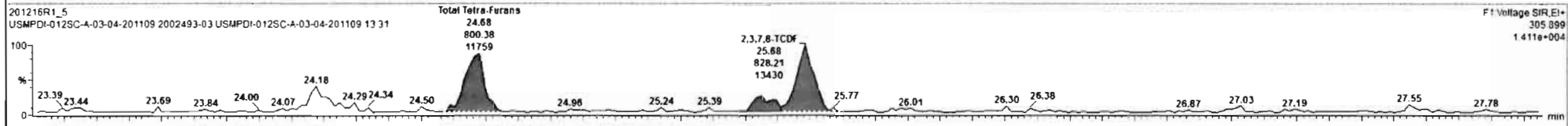
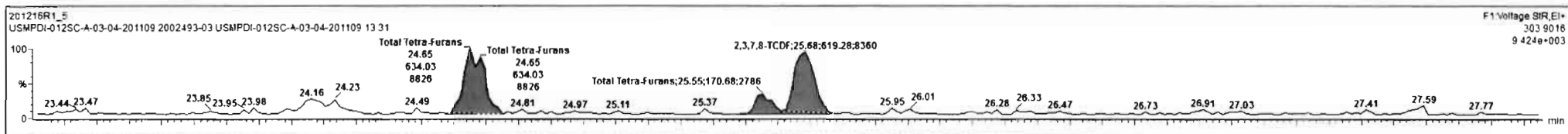
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5450	10.800			0.487	0.0244	0.582	
44 1st Func Penta-Furans				0.9597	10.800			0.110	0.00899	0.110	
45 Total Penta-Furans				0.9597	10.800			0.165	0.0251	0.563	
46 Total Hexa-Furans				1.0202	10.800			0.899	0.0268	1.03	
47 Total Hepta-Furans				1.0492	10.800			1.22	0.0454	1.22	
48 PFK1											
49 PFK2											
50 PFK3											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	22.62	1.533e2	2.592e2	0.59	YES	0.052306	0.00000
2 Total Tetra-Furans	24.16	1.251e2	2.272e2	0.55	YES	0.042678	0.00000
3 Total Tetra-Furans	24.65	6.340e2	8.004e2	0.79	NO	0.21285	0.21285
4 Total Tetra-Furans	25.55	1.707e2	2.289e2	0.75	NO	0.059290	0.059290
5 2,3,7,8-TCDF	25.68	6.193e2	8.282e2	0.75	NO	0.21479	0.21479



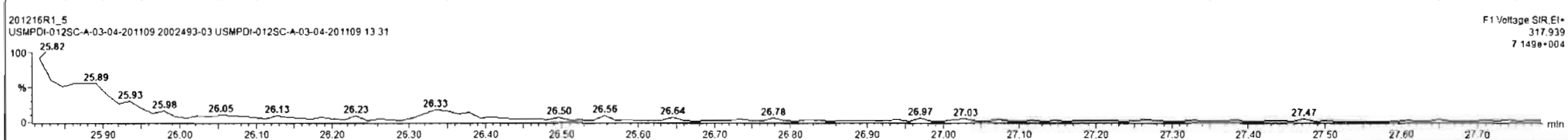
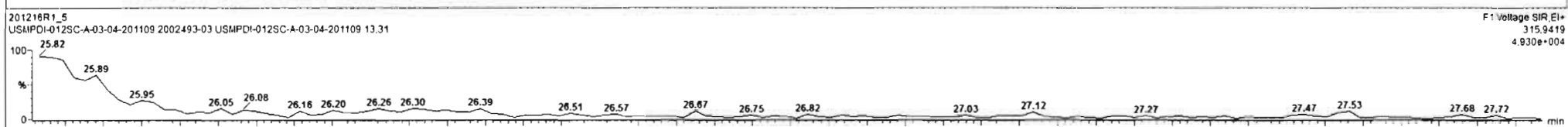
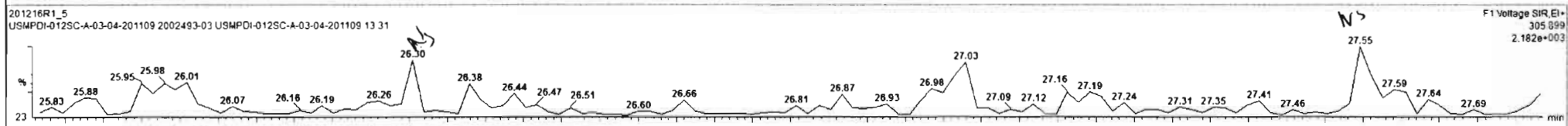
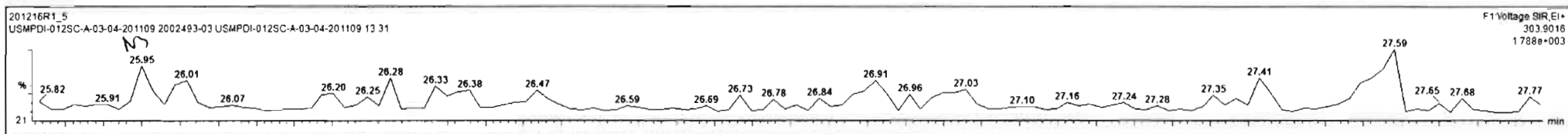
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9480	10.800			0.487	0.0244	0.539	
44 1st Func. Penta-Furans				0.9597	10.800			0.110	0.00899	0.110	
45 Total Penta-Furans				0.9597	10.800			0.165	0.0251	0.563	
46 Total Hexe-Furans				1.0202	10.800			0.899	0.0268	1.03	
47 Total Hepta-Furans				1.0492	10.800			1.22	0.0454	1.22	
48 PFK1											
49 PFK2											
50 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	22.82	1.533e2	2.592e2	0.59	YES	0.052306	0.00000
2 Total Tetra-Furans	24.65	6.340e2	8.064e2	0.79	NO	0.21285	0.21285
3 Total Tetra-Furans	25.55	1.707e2	2.280e2	0.75	NO	0.059290	0.059290
4 2,3,7,8-TCDF	25.68	6.193e2	8.282e2	0.75	NO	0.21479	0.21479



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8400	10.800			0.487		0.0244	0.539
44	1st Func. Penta-Furans				0.9597	10.800			0.110		0.00899	0.110
45	Total Penta-Furans				0.9597	10.800			0.165		0.0251	0.563
46	Total Hexa-Furans				1.0202	10.800			0.899		0.0268	1.03
47	Total Hepta-Furans				1.0492	10.800			1.22		0.0454	1.22
48	PFK1											
49	PFK2											
50	PFK3											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	22.62	1.533e2	2.592e2	0.59	YES	0.052306	0.00000
2	Total Tetra-Furans	24.65	6.340e2	8.094e2	0.79	NO	0.21285	0.21285
3	Total Tetra-Furans	25.55	1.707e2	2.289e2	0.75	NO	0.059290	0.059290
4	2,3,7,8-TCDF	25.68	6.193e2	8.282e2	0.75	NO	0.21479	0.21479



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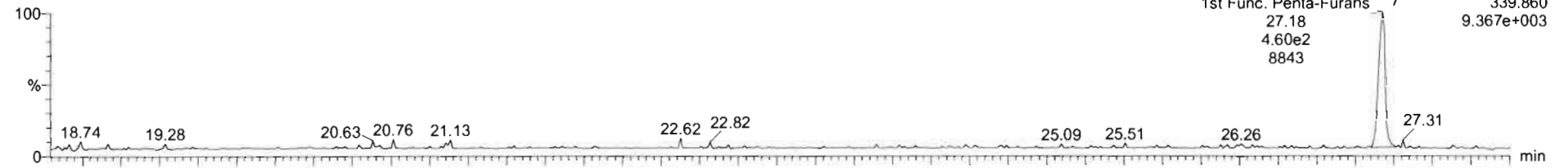
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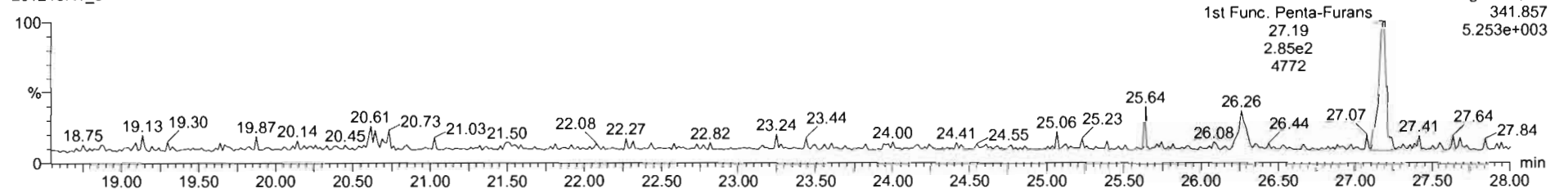
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1st Func. Penta-Furans

201216R1_5

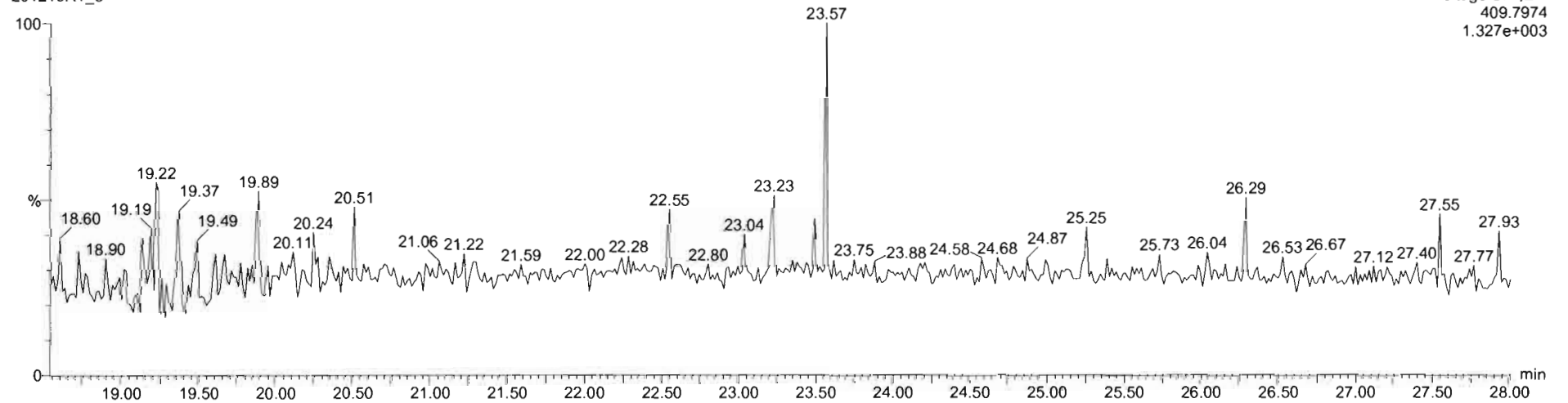


201216R1_5



DPE6

201216R1_5

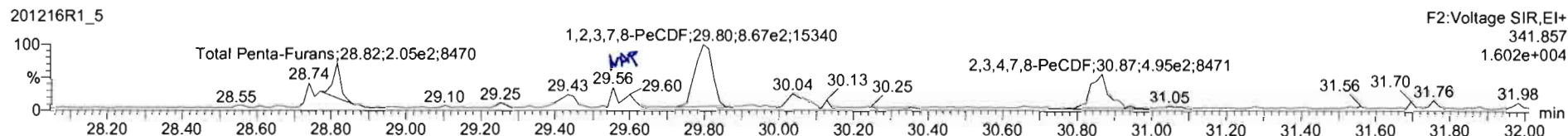
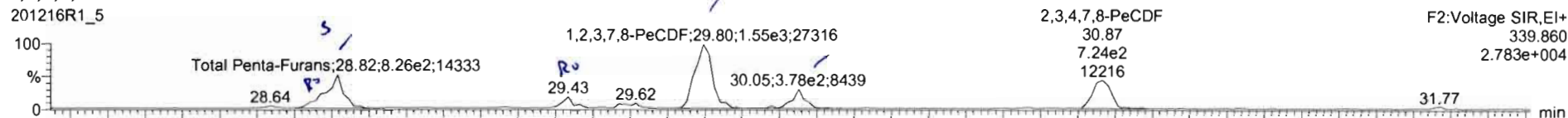


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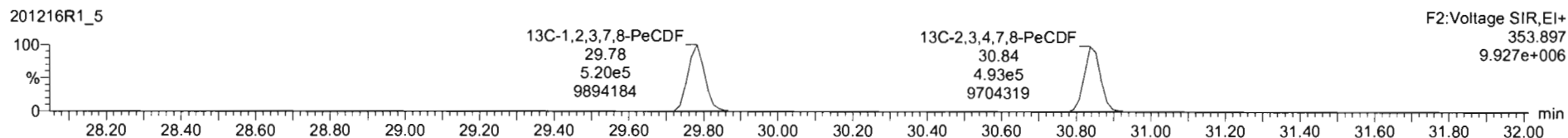
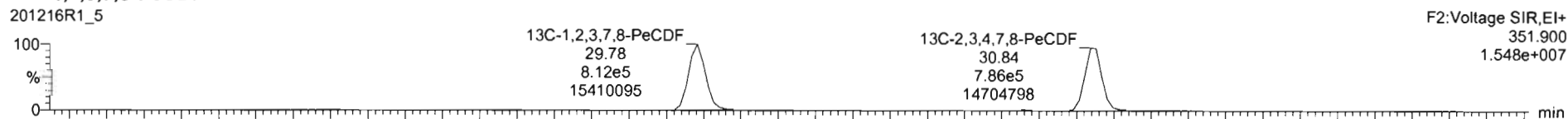
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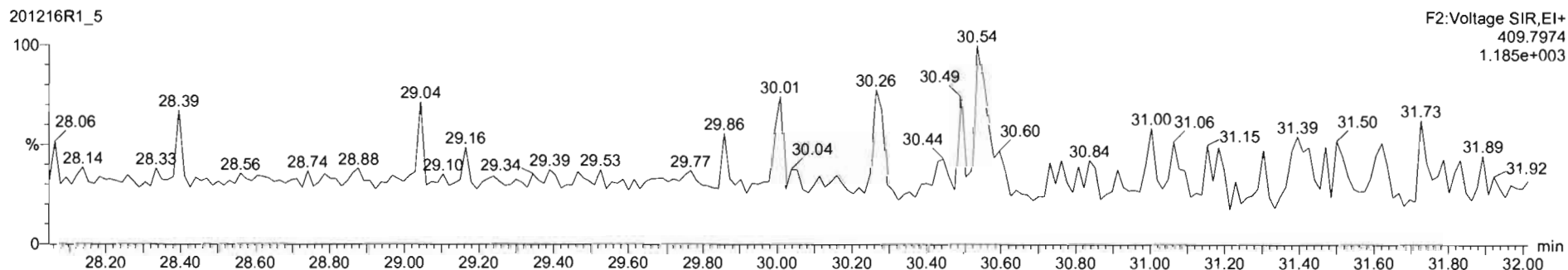
1,2,3,7,8-PeCDF



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

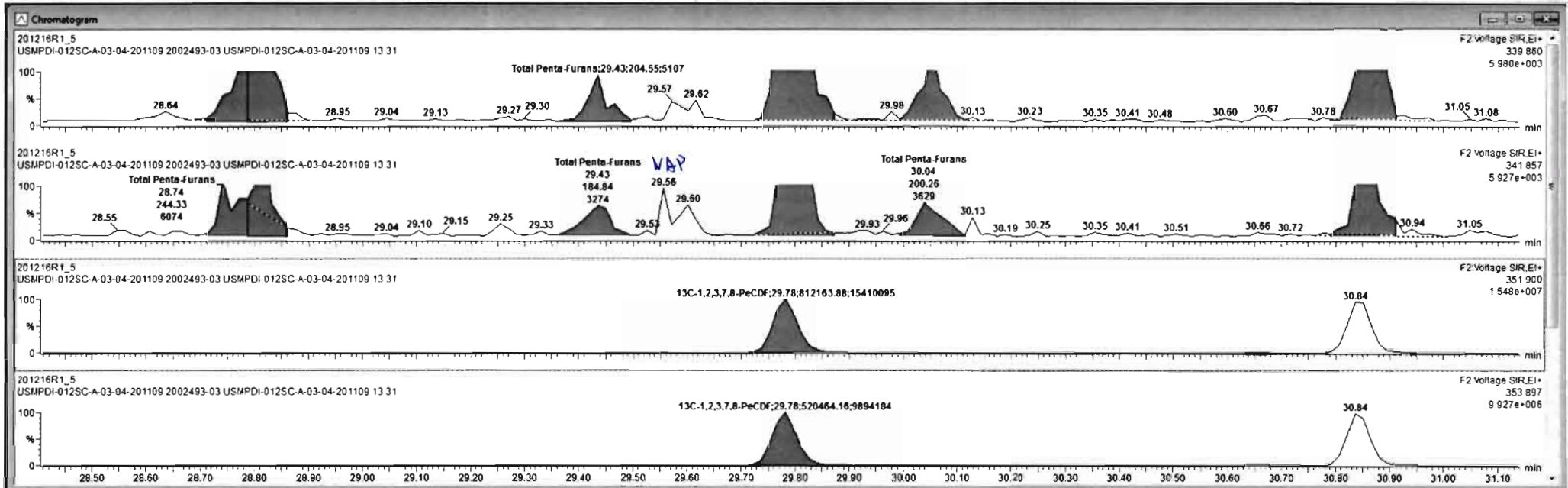


DPE2



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.800			0.727		0.0251	0.839
46 Total Hexa-Furans				1.0202	10.800			0.899		0.0268	1.02
47 Total Hepta-Furans				1.0492	10.800			1.22		0.0454	1.22
48 PFK1											
49 PFK2											

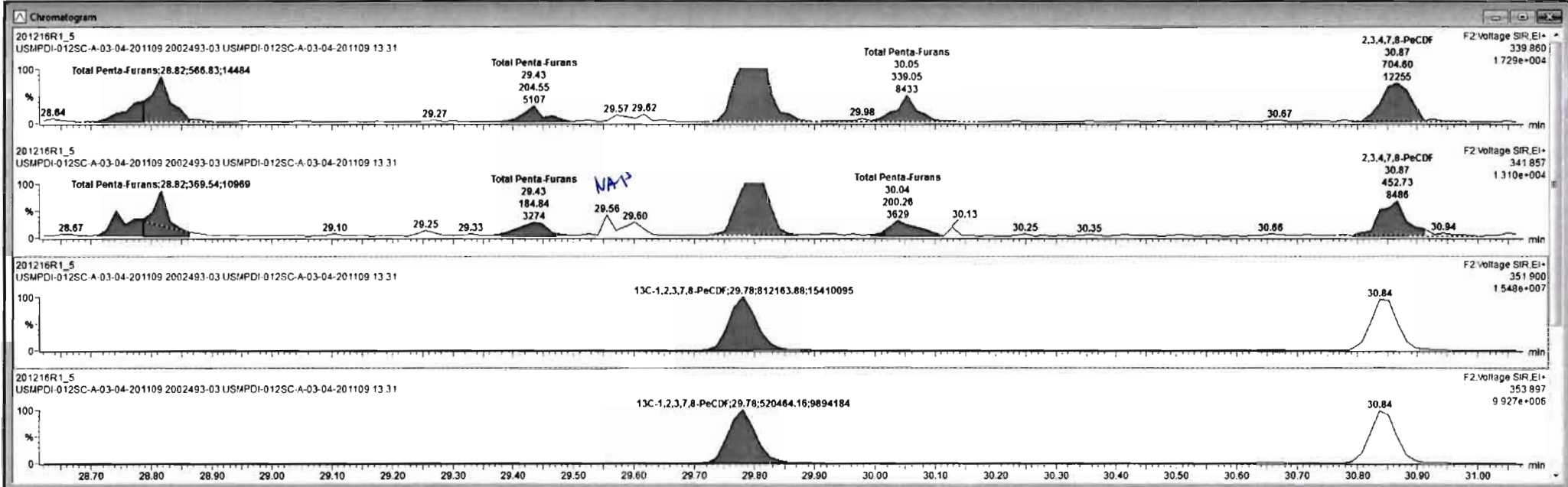
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.79	2.564e2	2.443e2	1.05	YES	0.062000	0.00000
2 Total Penta-Furans	28.82	5.668e2	3.695e2	1.53	NO	0.13800	0.13837
3 Total Penta-Furans	29.43	2.046e2	1.848e2	1.11	YES	0.050000	0.00000
4 1,2,3,7,8-PeCDF	29.80	1.539e3	8.931e2	1.72	NO	0.35200	0.35210
5 Total Penta-Furans	30.05	3.391e2	2.003e2	1.89	NO	0.080000	0.079695



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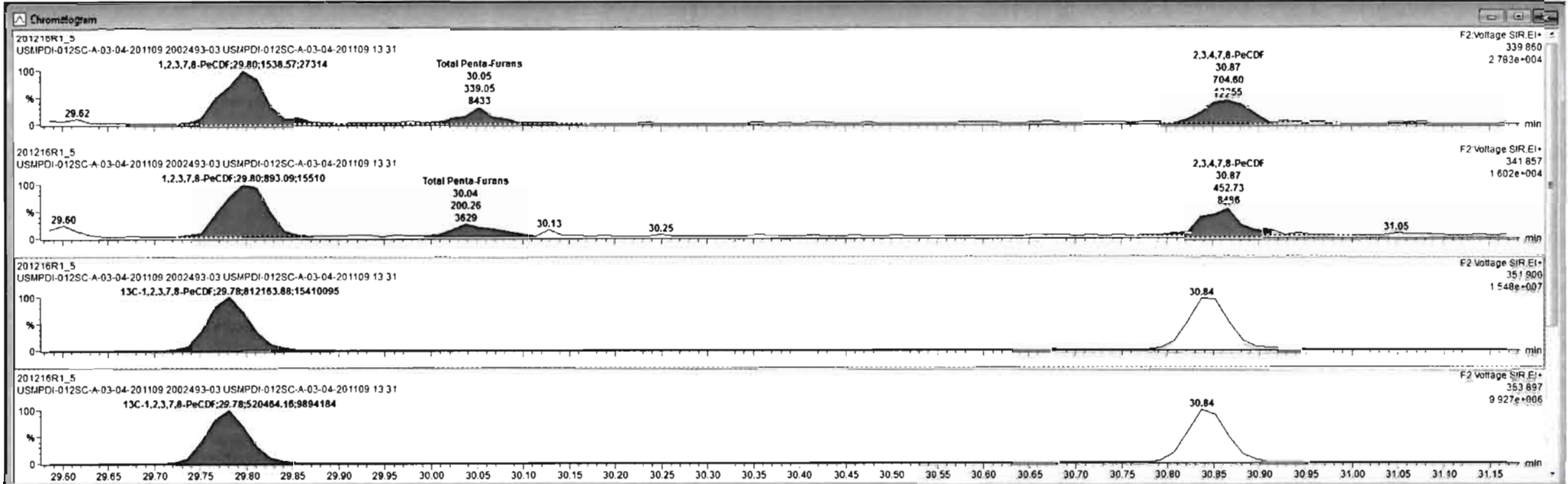
Name	Resp	RA	n/y	RRF	wfVol	RT	RRT	Conc	%Rec	Dt	EMPC
45 Total Penta-Furans				0.9597	10.800			0.727	0.0251	0.839	
46 Total Hexa-Furans				1.0202	10.800			0.899	0.0268	1.02	
47 Total Hepta-Furans				1.0492	10.800			1.22	0.0454	1.22	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.79	2.564e2	2.443e2	1.05	YES	0.062000	0.00000
2 Total Penta-Furans	28.82	5.668e2	3.695e2	1.53	NO	0.13800	0.13837
3 Total Penta-Furans	29.43	2.046e2	1.848e2	1.11	YES	0.050000	0.00000
4 1,2,3,7,8-PeCDF	29.80	1.539e3	8.931e2	1.72	NO	0.35200	0.35210
5 Total Penta-Furans	30.05	3.391e2	2.003e2	1.69	NO	0.080000	0.079695



Name	Reco	RA	n/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.800			0.727		0.0251	0.838
46 Total Hexa-Furans				1.0202	10.800			0.899		0.0268	1.02
47 Total Hepta-Furans				1.0492	10.800			1.22		0.0454	1.22
48 PFX1											
49 PFX2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.79	2.564e2	2.443e2	1.05	YES	0.062000	0.00000
2 Total Penta-Furans	28.82	5.668e2	3.895e2	1.53	NO	0.13800	0.13837
3 Total Penta-Furans	29.43	2.046e2	1.848e2	1.11	YES	0.050000	0.00000
4 1,2,3,7,8-PeCDF	29.80	1.539e3	8.931e2	1.72	NO	0.35200	0.35210
5 Total Penta-Furans	30.05	3.391e2	2.003e2	1.89	NO	0.080000	0.079695
6 2,3,4,7,8-PeCDF	30.87	7.626e2	4.577e2	1.66	NO	0.16700	0.16707



Regdy

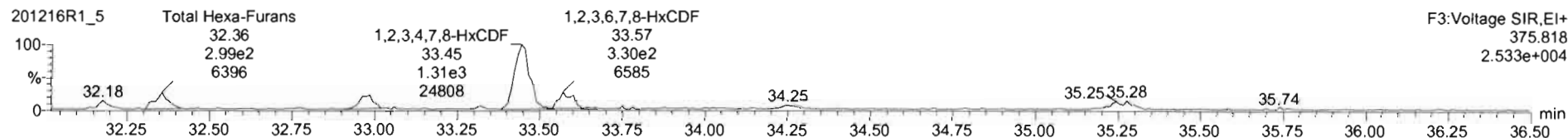
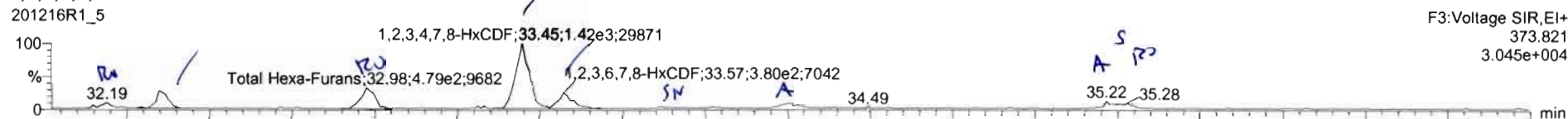
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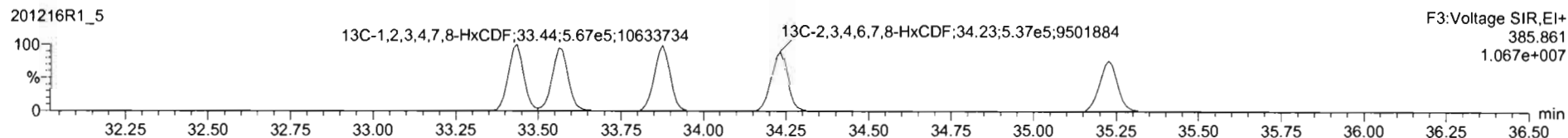
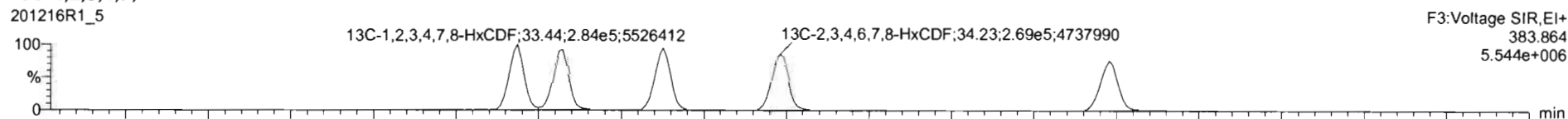
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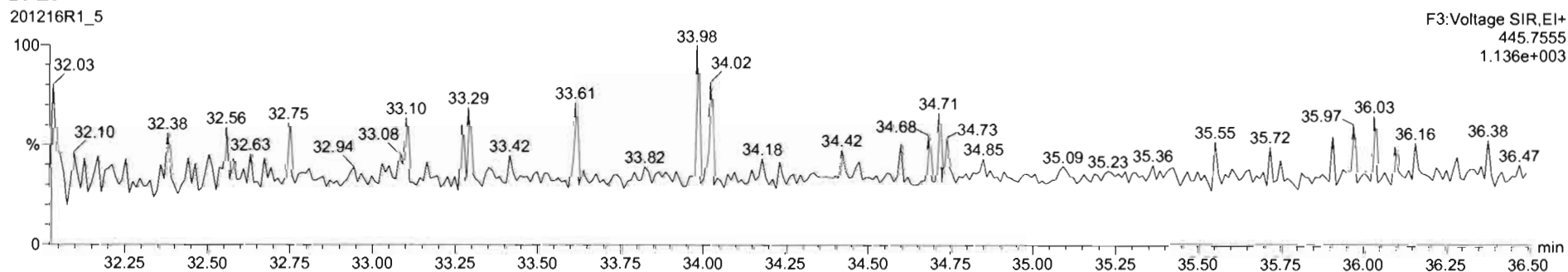
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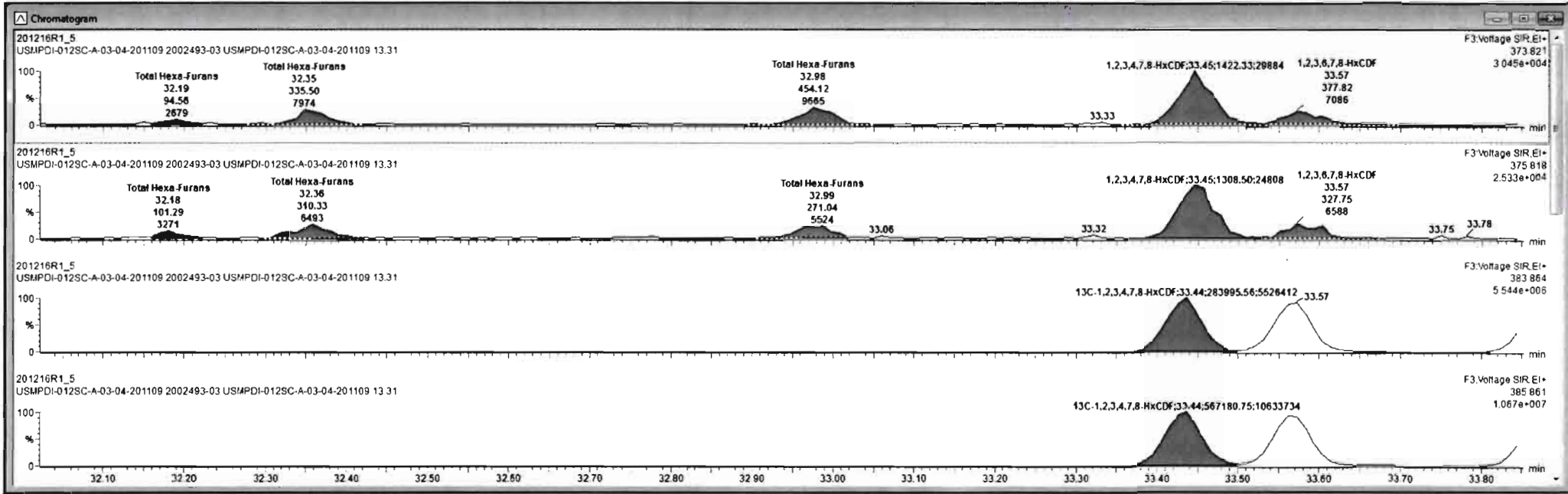


DPE3



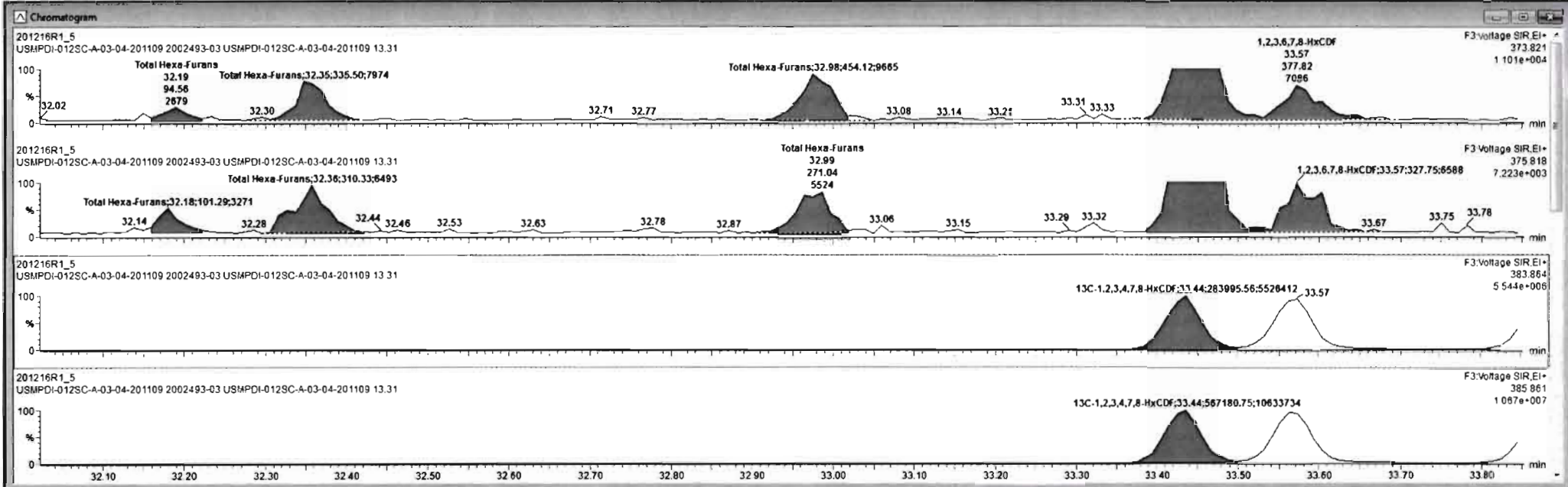
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.800			0.727	0.0251	0.839	
46 Total Hexa-Furans				1.0202	10.800			1.03	0.0268	1.24	
47 Total Hepta-Furans				1.0492	10.800			1.22	0.0454	1.22	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.19	9.456e1	1.013e2	0.93	YES	0.038087	0.00000
2 Total Hexa-Furans	32.35	3.355e2	3.103e2	1.08	NO	0.14400	0.14400
3 Total Hexa-Furans	32.98	4.541e2	2.710e2	1.68	YES	0.13537	0.00000
4 1,2,3,4,7,8-HxCDF	33.45	1.422e3	1.308e3	1.09	NO	0.60260	0.60260
5 1,2,3,6,7,8-HxCDF	33.57	3.778e2	3.278e2	1.15	NO	0.15037	0.15037
6 2,3,4,6,7,8-HxCDF	34.25	1.450e2	1.070e2	1.36	NO	0.056750	0.056750



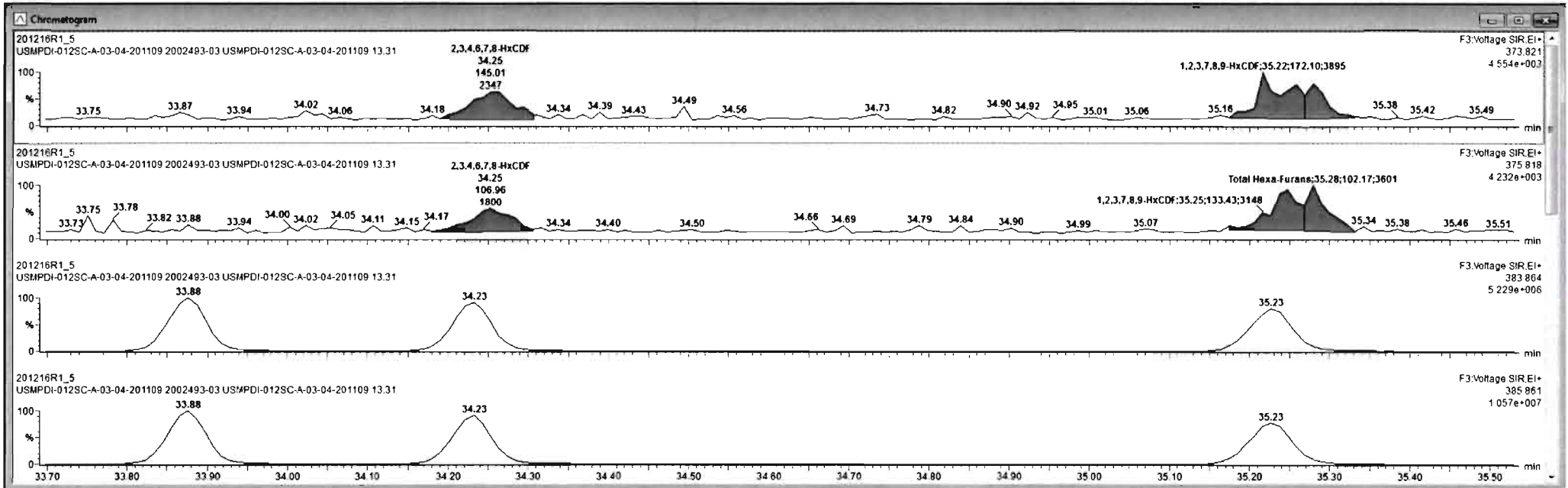
Name	Resp	RA	n/y	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.800			0.727	0.0251	0.839	
46 Total Hexa-Furans				1.0202	10.800			1.03	0.0260	1.24	
47 Total Hepta-Furans				1.0492	10.800			1.22	0.0454	1.22	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.19	9.456e1	1.013e2	0.93	YES	0.038087	0.00000
2 Total Hexa-Furans	32.35	3.355e2	3.103e2	1.08	NO	0.14400	0.14400
3 Total Hexa-Furans	32.98	4.541e2	2.710e2	1.68	YES	0.13537	0.00000
4 1,2,3,4,7,8-HxCDF	33.45	1.422e3	1.308e3	1.09	NO	0.60260	0.60260
5 1,2,3,6,7,8-HxCDF	33.57	3.778e2	3.278e2	1.15	NO	0.15037	0.15037
6 2,3,4,6,7,8-HxCDF	34.25	1.450e2	1.070e2	1.36	NO	0.056750	0.056750



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.800			0.727		0.0251	0.839
46 Total Hexa-Furans				1.0202	10.800			1.03		0.0268	1.24
47 Total Hepta-Furans				1.0482	10.800			1.22		0.0454	1.22
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.19	9.456e1	1.013e2	0.93	YES	0.038087	0.00000
2 Total Hexa-Furans	32.35	3.355e2	3.103e2	1.08	NO	0.14400	0.14400
3 Total Hexa-Furans	32.98	4.541e2	2.710e2	1.68	YES	0.13537	0.00000
4 1,2,3,4,7,8-HxCDF	33.45	1.422e3	1.308e3	1.09	NO	0.60260	0.60260
5 1,2,3,6,7,8-HxCDF	33.57	3.778e2	3.278e2	1.15	NO	0.15037	0.15037
6 2,3,4,6,7,8-HxCDF	34.25	1.450e2	1.070e2	1.36	NO	0.056750	0.056750

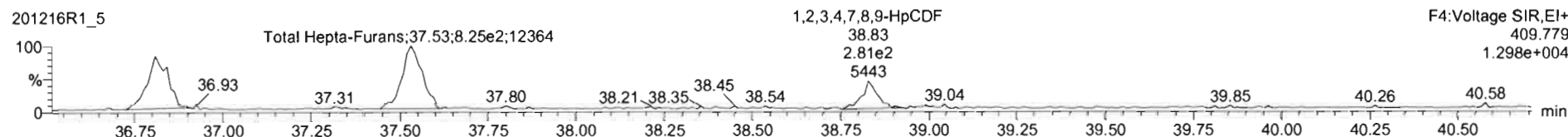
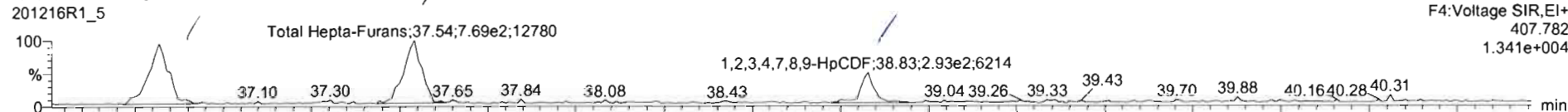


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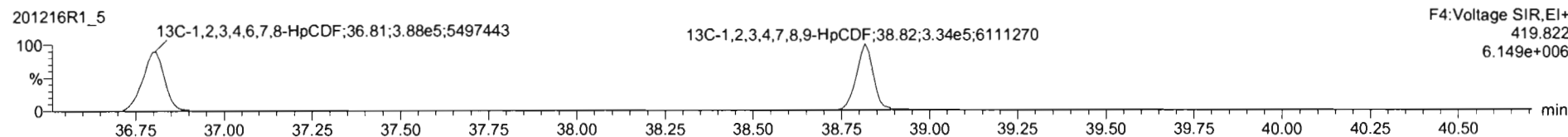
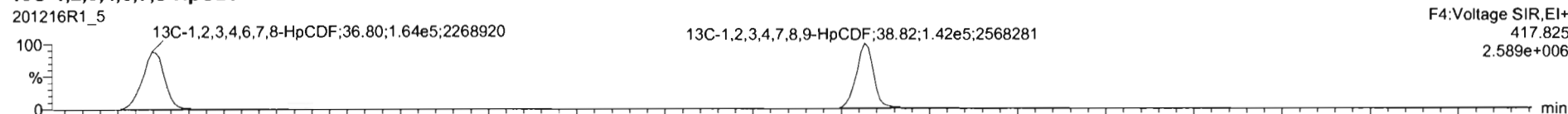
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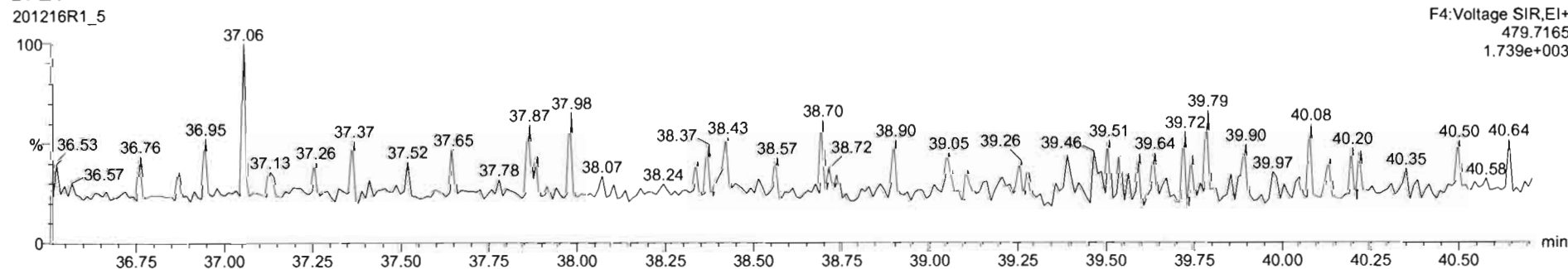
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13C-1,2,3,4,6,7,8-HpCDF

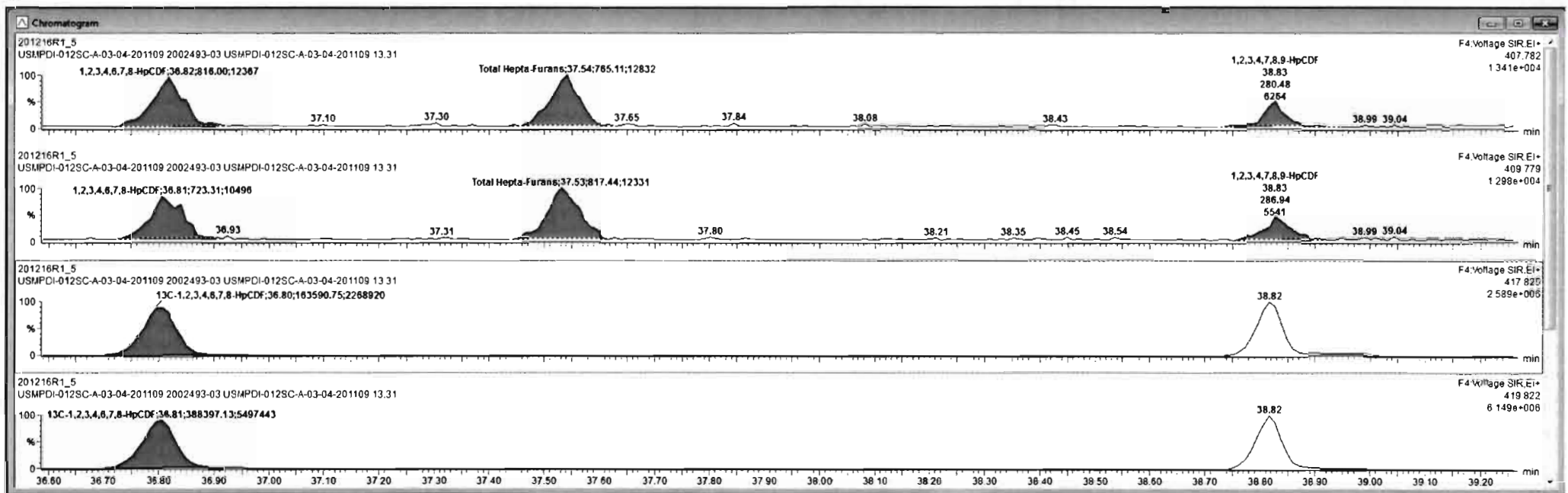


DPE4



Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.800			0.727		0.0251	0.839
46 Total Hexa-Furans				1.0202	10.800			1.03		0.0268	1.24
47 Total Hepta-Furans				1.0482	10.800			1.22		0.0484	1.22
48 PFK1											
49 PFK2											

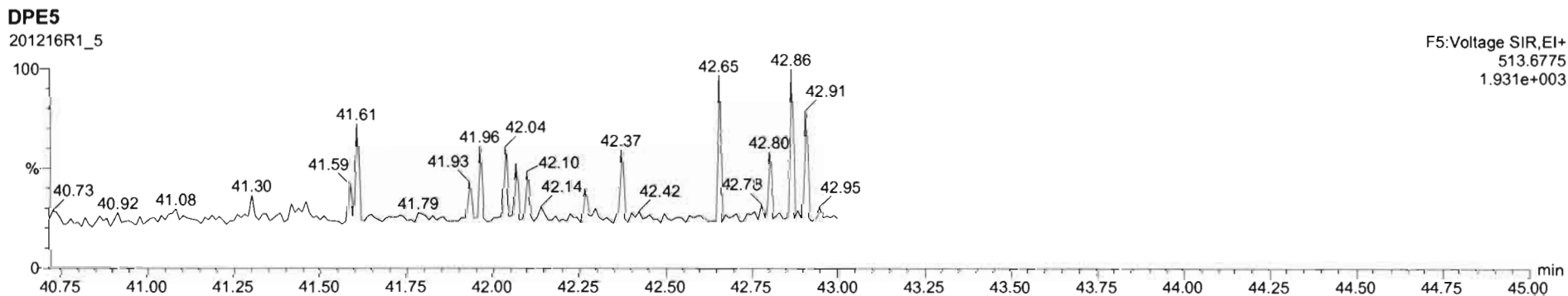
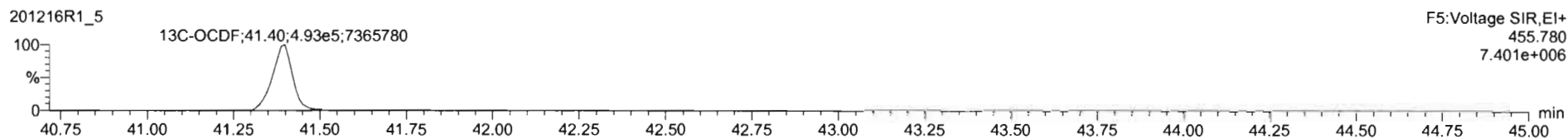
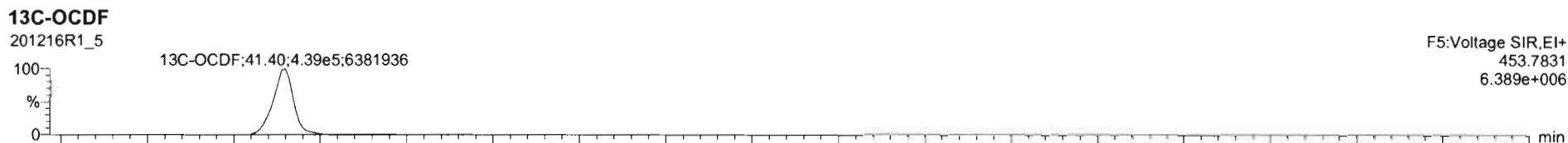
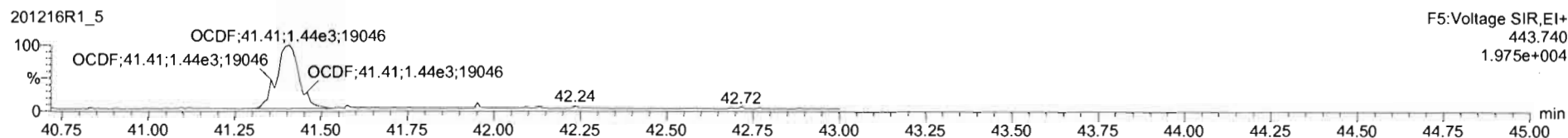
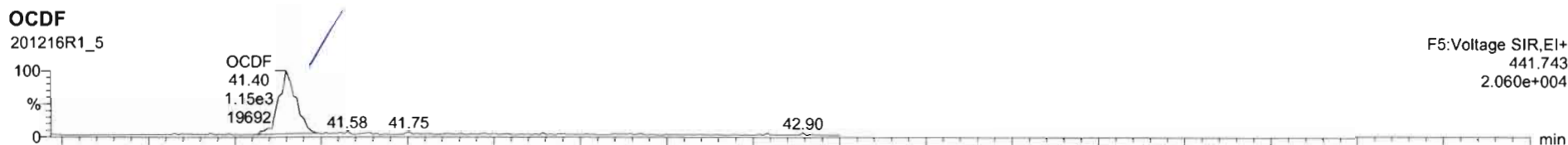
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.82	8.160e2	7.233e2	1.13	NO	0.49219	0.49219
2 Total Hepta-Furans	37.54	7.651e2	8.174e2	0.94	NO	0.54339	0.54339
3 1,2,3,4,7,8,9-HpCDF	38.83	2.805e2	2.869e2	0.98	NO	0.18769	0.18769



Dataset: Untitled

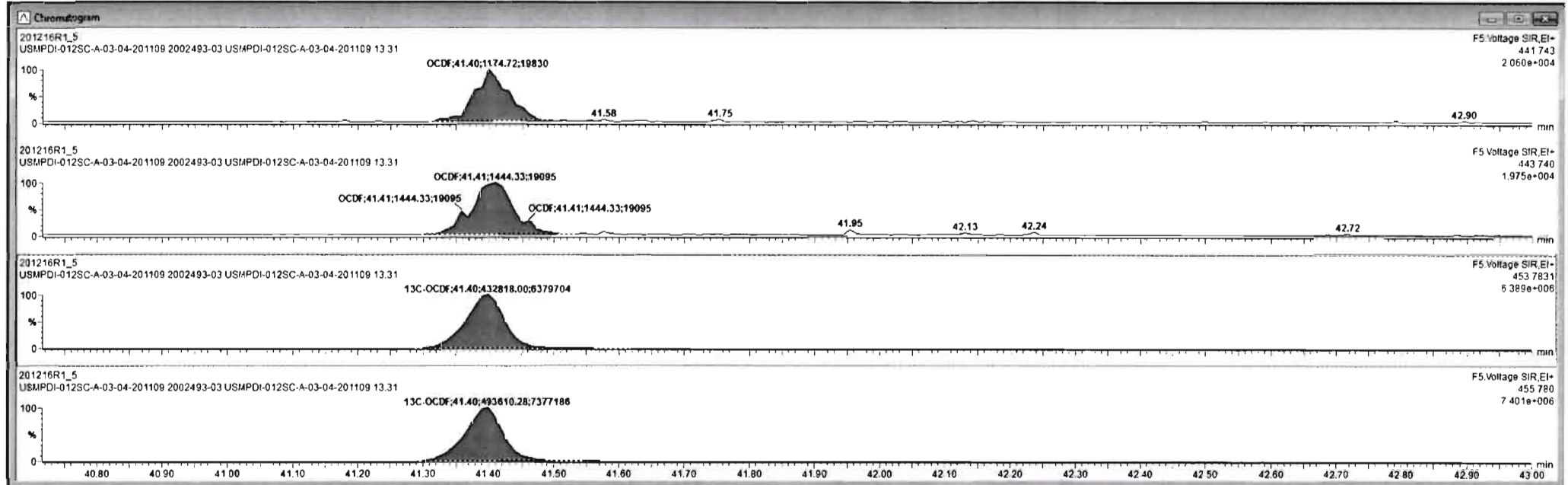
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
13	2,3,4,6,7,8-HxCDF	2.52e2	1.36	NO	1.0202	10.800	34.25	1.001	0.0568	0.0274	0.0568
14	1,2,3,7,8,9-HxCDF	3.06e2	1.29	NO	0.9909	10.800	35.22	1.000	0.0746	0.0322	0.0746
15	1,2,3,4,6,7,8-HpCDF	1.54e3	1.13	NO	1.0492	10.800	36.82	1.001	0.492	0.0478	0.492
16	1,2,3,4,7,8,9-HpCDF	5.67e2	0.98	NO	1.1759	10.800	38.83	1.000	0.188	0.0379	0.188
17	OCDF	2.62e3	0.81	NO	0.8960	10.800	41.40	1.000	1.17	0.0581	1.17

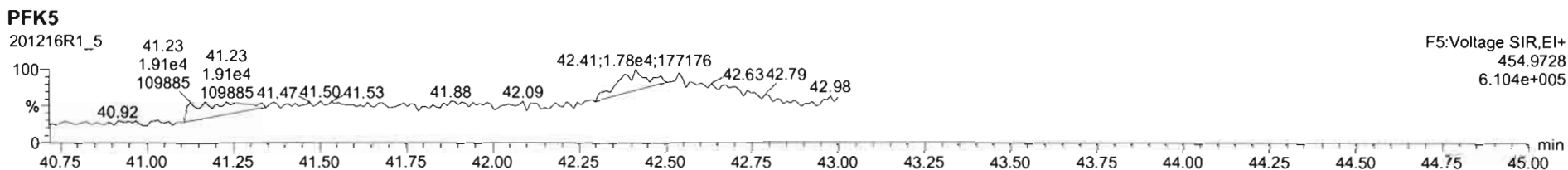
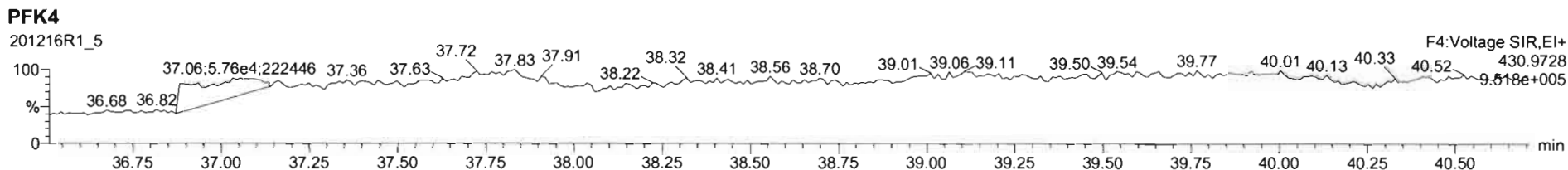
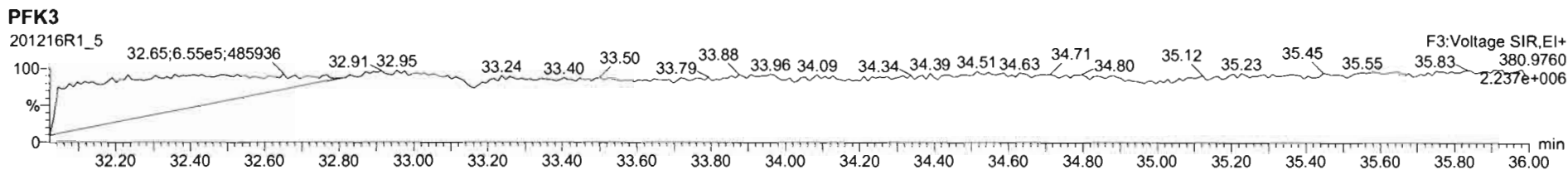
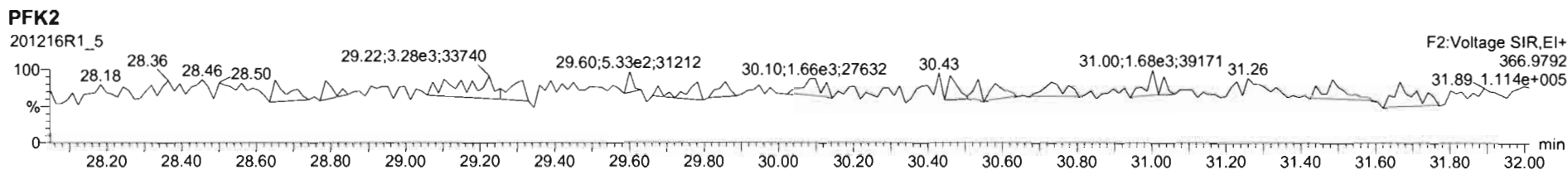
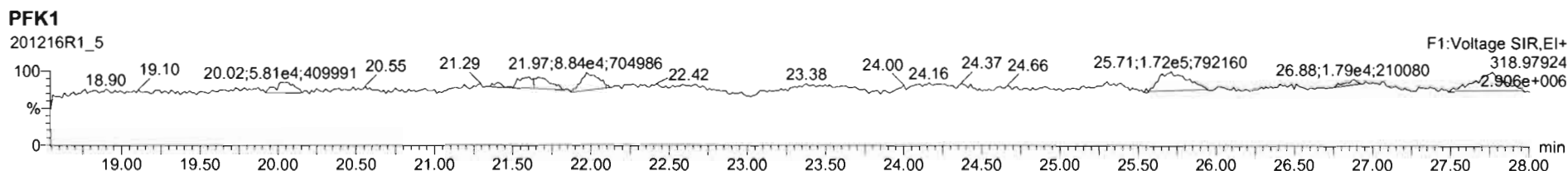
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



Dataset: Untitled

Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_5, Date: 16-Dec-2020, Time: 11:30:00, ID: 2002493-03 USMPDI-012SC-A-03-04-201109 13.31, Description: USMPDI-012SC-A-03-04-201109



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_6.qld

Last Altered: Monday, December 21, 2020 12:58:39 PM Pacific Standard Time
Printed: Monday, December 21, 2020 12:59:03 PM Pacific Standard Time

GRB 12/21/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

*MW
12/21/2020*

Name: 201216R1_6, Date: 16-Dec-2020, Time: 12:15:26, ID: 2002493-04 USMPDI-012SC-A-04-05-201109 12.04, Description: USMPDI-012SC-A-04-05-201109

#	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	9.23e2	0.28	YES	0.980	10.436	26.381	26.36	1.001	1.001	0.14788	✓	0.0236	0.0739
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.436	31.079		1.001				0.0416	
3	3 1,2,3,4,7,8-HxCDD	6.41e2	1.29	NO	1.02	10.436	34.368	34.46	1.001	1.003	0.16727		0.0643	0.167
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.436	34.483		1.001				0.0673	
5	5 1,2,3,7,8,9-HxCDD	6.00e2	1.27	NO	0.954	10.436	34.744	34.76	1.000	1.001	0.15374		0.0657	0.154
6	6 1,2,3,4,6,7,8-HpCDD	9.94e3	1.03	NO	0.918	10.436	38.211	38.21	1.000	1.000	3.2658		0.128	3.27
7	7 OCDD	8.58e4	0.86	NO	0.866	10.436	41.123	41.13	1.000	1.000	41.328		0.288	41.3
8	8 2,3,7,8-TCDF	2.97e3	0.72	NO	0.848	10.436	25.672	25.70	1.000	1.001	0.45112		0.0774	0.451
9	9 1,2,3,7,8-PeCDF	3.79e3	1.76	NO	0.960	10.436	29.784	29.80	1.000	1.001	0.62434		0.0247	0.624
10	10 2,3,4,7,8-PeCDF	2.03e3	1.62	NO	1.07	10.436	30.874	30.87	1.001	1.000	0.29576		0.0206	0.296
11	11 1,2,3,4,7,8-HxCDF	5.98e3	1.18	NO	0.986	10.436	33.446	33.45	1.000	1.000	1.3767		0.0262	1.38
12	12 1,2,3,6,7,8-HxCDF	1.55e3	1.11	NO	1.04	10.436	33.592	33.59	1.001	1.001	0.35012		0.0250	0.350
13	13 2,3,4,6,7,8-HxCDF	4.45e2	1.07	NO	1.02	10.436	34.253	34.24	1.001	1.000	0.10466		0.0271	0.105
14	14 1,2,3,7,8,9-HxCDF	3.89e2	1.19	NO	0.991	10.436	35.248	35.26	1.000	1.001	0.10023		0.0334	0.100
15	15 1,2,3,4,6,7,8-HpCDF	3.06e3	1.00	NO	1.05	10.436	36.813	36.82	1.000	1.001	1.0064		0.0480	1.01
16	16 1,2,3,4,7,8,9-HpCDF	8.41e2	0.96	NO	1.18	10.436	38.828	38.83	1.000	1.000	0.28138		0.0385	0.281
17	17 OCDF	4.31e3	0.89	NO	0.896	10.436	41.416	41.43	1.000	1.001	1.9439		0.0515	1.94
18	18 13C-2,3,7,8-TCDD	1.22e6	0.77	NO	1.06	10.436	26.353	26.35	1.030	1.030	223.89	117 ✓	0.0925	
19	19 13C-1,2,3,7,8-PeCDD	9.53e5	0.64	NO	0.785	10.436	31.192	31.05	1.219	1.214	234.84	123	0.277	
20	20 13C-1,2,3,4,7,8-HxCDD	7.20e5	1.27	NO	0.621	10.436	34.337	34.35	1.014	1.014	263.10	137	0.369	
21	21 13C-1,2,3,6,7,8-HxCDD	8.09e5	1.26	NO	0.734	10.436	34.459	34.46	1.017	1.017	249.71	130	0.312	
22	22 13C-1,2,3,7,8,9-HxCDD	7.83e5	1.25	NO	0.723	10.436	34.743	34.73	1.026	1.025	245.70	128	0.317	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.35e5	1.06	NO	0.568	10.436	38.243	38.20	1.129	1.128	253.62	132	0.746	
24	24 13C-OCDD	9.20e5	0.90	NO	0.496	10.436	41.180	41.12	1.216	1.214	420.32	110	0.772	
25	25 13C-2,3,7,8-TCDF	1.49e6	0.77	NO	0.919	10.436	25.652	25.67	1.003	1.003	232.06	121	0.145	
26	26 13C-1,2,3,7,8-PeCDF	1.21e6	1.57	NO	0.715	10.436	29.903	29.78	1.169	1.164	243.27	127	0.344	
27	27 13C-2,3,4,7,8-PeCDF	1.23e6	1.56	NO	0.689	10.436	30.990	30.85	1.212	1.206	256.28	134	0.357	
28	28 13C-1,2,3,4,7,8-HxCDF	8.45e5	0.50	NO	0.873	10.436	33.442	33.44	0.987	0.987	219.22	114	0.367	
29	29 13C-1,2,3,6,7,8-HxCDF	8.16e5	0.50	NO	0.933	10.436	33.571	33.57	0.991	0.991	198.04	103	0.344	
30	30 13C-2,3,4,6,7,8-HxCDF	7.98e5	0.50	NO	0.843	10.436	34.238	34.23	1.011	1.011	214.56	112	0.380	
31	31 13C-1,2,3,7,8,9-HxCDF	7.51e5	0.50	NO	0.780	10.436	35.238	35.24	1.040	1.040	218.25	114	0.411	

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_6.qld

Last Altered: Monday, December 21, 2020 12:58:39 PM Pacific Standard Time

Printed: Monday, December 21, 2020 12:59:03 PM Pacific Standard Time

Name: 201216R1_6, Date: 16-Dec-2020, Time: 12:15:26, ID: 2002493-04 USMPDI-012SC-A-04-05-201109 12.04, Description: USMPDI-012SC-A-04-05-201109

	# 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	5.55e5	0.44	NO	0.726	10.436	36.813	36.79	1.087	1.086	173.22	90.4	0.545	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.87e5	0.42	NO	0.491	10.436	38.822	38.82	1.146	1.146	224.87	117	0.806	
34	34 13C-OCDF	9.48e5	0.86	NO	0.565	10.436	41.396	41.41	1.222	1.222	380.19	99.2	0.536	
35	35 37Cl-2,3,7,8-TCDD	5.30e5			1.22	10.436	26.347	26.38	1.030	1.031	84.297	110	0.0272	
36	36 13C-1,2,3,4-TCDD	9.91e5	0.78	NO	1.00	10.436	25.640	25.58	1.000	1.000	191.64	100	0.0977	
37	37 13C-1,2,3,4-TCDF	1.34e6	0.77	NO	1.00	10.436	24.130	24.09	1.000	1.000	191.64	100	0.133	
38	38 13C-1,2,3,4,6,9-HxCDF	8.46e5	0.50	NO	1.00	10.436	33.920	33.88	1.000	1.000	191.64	100	0.321	
39	39 Total Tetra-Dioxins				0.980	10.436	24.620		0.000		0.10374		0.0238	0.178
40	40 Total Penta-Dioxins				0.932	10.436	29.960		0.000		0.22256		0.0416	0.508
41	41 Total Hexa-Dioxins				0.902	10.436	33.635		0.000		1.3592		0.0697	2.09
42	42 Total Hepta-Dioxins				0.918	10.436	37.640		0.000		7.4559		0.128	7.46
43	43 Total Tetra-Furans				0.848	10.436	23.610		0.000		1.5997		0.0774	1.63
44	44 1st Func. Penta-Furans				0.960	10.436	26.930		0.000		0.23175		0.0102	0.232
45	45 Total Penta-Furans				0.960	10.436	29.275		0.000		1.8708		0.0238	1.87
46	46 Total Hexa-Furans				1.02	10.436	33.555		0.000		2.5886		0.0275	2.68
47	47 Total Hepta-Furans				1.05	10.436	37.835		0.000		2.2512		0.0457	2.25

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_6.qld

Last Altered: Monday, December 21, 2020 12:58:39 PM Pacific Standard Time

Printed: Monday, December 21, 2020 12:59:03 PM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_6, Date: 16-Dec-2020, Time: 12:15:26, ID: 2002493-04 USMPDI-012SC-A-04-05-201109 12.04, Description: USMPDI-012SC-A-04-05-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.29	3.769e3	6.010e3	2.630e2	3.857e2	0.68	NO	6.487e2	0.10374	0.10374	0.0238
2	2,3,7,8-TCDD	26.36	4.994e3	1.255e4	2.011e2	7.216e2	0.28	YES	9.228e2	0.00000	0.073945	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	28.80	2.912e3	6.843e3	2.261e2	3.143e2	0.72	NO	5.404e2	0.11661	0.11661	0.0416
2	Total Penta-Dioxins	29.27	4.265e3	4.939e3	2.033e2	2.877e2	0.71	NO	4.910e2	0.10594	0.10594	0.0416
3	Total Penta-Dioxins	29.78	2.184e4	9.095e3	1.206e3	4.443e2	2.71	YES	0.000e0	0.00000	0.15628	0.0416
4	Total Penta-Dioxins	30.85	1.658e4	4.853e3	8.388e2	3.671e2	2.29	YES	0.000e0	0.00000	0.12911	0.0416

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.71	3.891e4	3.550e4	1.837e3	1.654e3	1.11	NO	3.492e3	0.96187	0.96187	0.0697
2	Total Hexa-Dioxins	33.31	2.903e3	3.130e3	1.555e2	1.217e2	1.28	NO	2.771e2	0.076348	0.076348	0.0697
3	Total Hexa-Dioxins	33.59	2.261e4	1.966e4	1.752e3	1.180e3	1.48	YES	0.000e0	0.00000	0.72837	0.0697
4	1,2,3,4,7,8-HxCDD	34.46	6.493e3	5.950e3	3.619e2	2.796e2	1.29	NO	6.415e2	0.16727	0.16727	0.0643
5	1,2,3,7,8,9-HxCDD	34.76	7.778e3	7.219e3	3.355e2	2.642e2	1.27	NO	5.997e2	0.15374	0.15374	0.0657

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.19	9.587e4	9.630e4	6.395e3	6.356e3	1.01	NO	1.275e4	4.1901	4.1901	0.128
2	1,2,3,4,6,7,8-HpCDD	38.21	1.061e5	1.070e5	5.034e3	4.905e3	1.03	NO	9.939e3	3.2658	3.2658	0.128

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_6.qld

Last Altered: Monday, December 21, 2020 12:58:39 PM Pacific Standard Time

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Name: 201216R1_6, Date: 16-Dec-2020, Time: 12:15:26, ID: 2002493-04 USMPDI-012SC-A-04-05-201109 12.04, Description: USMPDI-012SC-A-04-05-201109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.66	3.816e3	3.963e3	2.696e2	3.608e2	0.75	NO	6.304e2	0.095760	0.095760	0.0774
2	Total Tetra-Furans	22.59	5.914e3	6.882e3	4.647e2	5.868e2	0.79	NO	1.051e3	0.15971	0.15971	0.0774
3	Total Tetra-Furans	23.10	2.672e3	4.298e3	2.151e2	2.522e2	0.85	NO	4.673e2	0.070983	0.070983	0.0774
4	Total Tetra-Furans	23.44	1.635e3	2.505e3	1.076e2	1.288e2	0.84	NO	2.364e2	0.035904	0.035904	0.0774
5	Total Tetra-Furans	24.18	6.233e3	7.710e3	7.318e2	9.344e2	0.78	NO	1.666e3	0.25309	0.25309	0.0774
6	Total Tetra-Furans	24.68	1.692e4	2.227e4	1.086e3	1.482e3	0.73	NO	2.568e3	0.39007	0.39007	0.0774
7	Total Tetra-Furans	25.58	6.135e3	1.072e4	4.028e2	5.393e2	0.75	NO	9.420e2	0.14309	0.14309	0.0774
8	2,3,7,8-TCDF	25.70	1.761e4	2.962e4	1.248e3	1.722e3	0.72	NO	2.970e3	0.45112	0.45112	0.0774
9	Total Tetra-Furans	27.58	1.736e3	4.491e3	7.742e1	1.860e2	0.42	YES	0.000e0	0.00000	0.027034	0.0774

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	27.18	1.628e4	8.121e3	8.805e2	5.380e2	1.64	NO	1.419e3	0.23175	0.23175	0.0102

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.82	2.863e4	2.355e4	2.028e3	1.476e3	1.37	NO	3.504e3	0.57245	0.57245	0.0238
2	Total Penta-Furans	29.43	8.707e3	7.024e3	5.482e2	4.090e2	1.34	NO	9.572e2	0.15638	0.15638	0.0238
3	Total Penta-Furans	29.60	5.327e3	3.661e3	2.525e2	1.849e2	1.37	NO	4.374e2	0.071454	0.071454	0.0238
4	1,2,3,7,8-PeCDF	29.80	4.505e4	2.416e4	2.419e3	1.375e3	1.76	NO	3.794e3	0.62434	0.62434	0.0247
5	Total Penta-Furans	30.05	1.157e4	6.912e3	5.656e2	3.552e2	1.59	NO	9.209e2	0.15044	0.15044	0.0238
6	2,3,4,7,8-PeCDF	30.87	2.308e4	1.633e4	1.255e3	7.725e2	1.62	NO	2.027e3	0.29576	0.29576	0.0206

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_6.qld

Last Altered: Monday, December 21, 2020 12:58:39 PM Pacific Standard Time

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Name: 201216R1_6, Date: 16-Dec-2020, Time: 12:15:26, ID: 2002493-04 USMPDI-012SC-A-04-05-201109 12.04, Description: USMPDI-012SC-A-04-05-201109

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.18	5.279e3	5.297e3	2.340e2	1.952e2	1.20	NO	4.292e2	0.10049	0.10049	0.0275
2	Total Hexa-Furans	32.36	1.292e4	1.207e4	5.987e2	5.205e2	1.15	NO	1.119e3	0.26203	0.26203	0.0275
3	Total Hexa-Furans	32.99	1.497e4	1.464e4	7.034e2	5.540e2	1.27	NO	1.257e3	0.29437	0.29437	0.0275
4	1,2,3,4,7,8-HxCDF	33.45	6.282e4	5.217e4	3.234e3	2.749e3	1.18	NO	5.983e3	1.3767	1.3767	0.0262
5	1,2,3,6,7,8-HxCDF	33.59	1.696e4	1.392e4	8.131e2	7.349e2	1.11	NO	1.548e3	0.35012	0.35012	0.0250
6	2,3,4,6,7,8-HxCDF	34.24	3.605e3	4.080e3	2.302e2	2.144e2	1.07	NO	4.447e2	0.10466	0.10466	0.0271
7	1,2,3,7,8,9-HxCDF	35.26	5.705e3	3.994e3	2.116e2	1.777e2	1.19	NO	3.892e2	0.10023	0.10023	0.0334
8	Total Hexa-Furans	35.28	5.688e3	6.330e3	2.160e2	2.169e2	1.00	YES	0.000e0	0.00000	0.091369	0.0275

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	36.82	2.659e4	2.473e4	1.528e3	1.531e3	1.00	NO	3.059e3	1.0064	1.0064	0.0480
2	Total Hepta-Furans	37.54	2.901e4	2.206e4	1.418e3	1.331e3	1.07	NO	2.749e3	0.96344	0.96344	0.0457
3	1,2,3,4,7,8,9-HpCDF	38.83	1.066e4	8.753e3	4.128e2	4.285e2	0.96	NO	8.413e2	0.28138	0.28138	0.0385

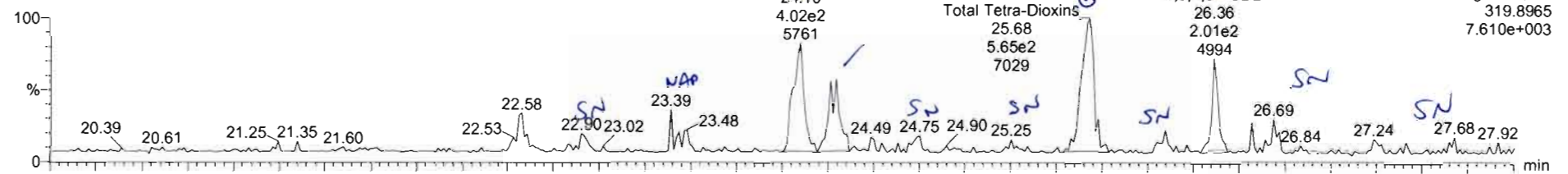
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Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

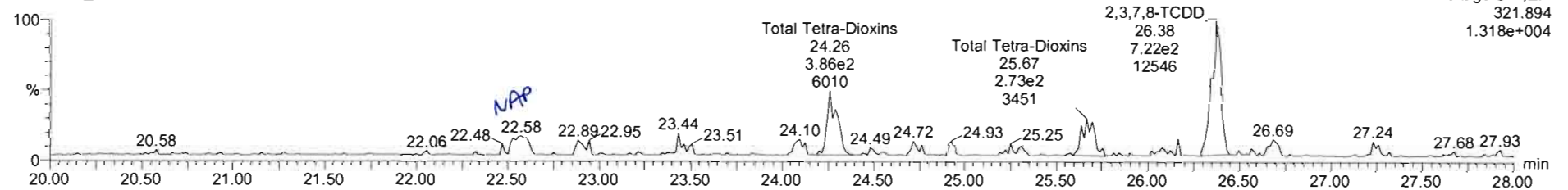
Name: 201216R1_6, Date: 16-Dec-2020, Time: 12:15:26, ID: 2002493-04 USMPDI-012SC-A-04-05-201109 12.04, Description: USMPDI-012SC-A-04-05-201109

2,3,7,8-TCDD

201216R1_6

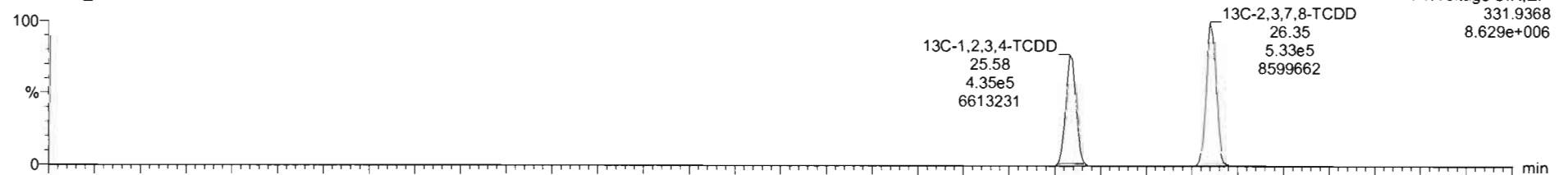


201216R1_6

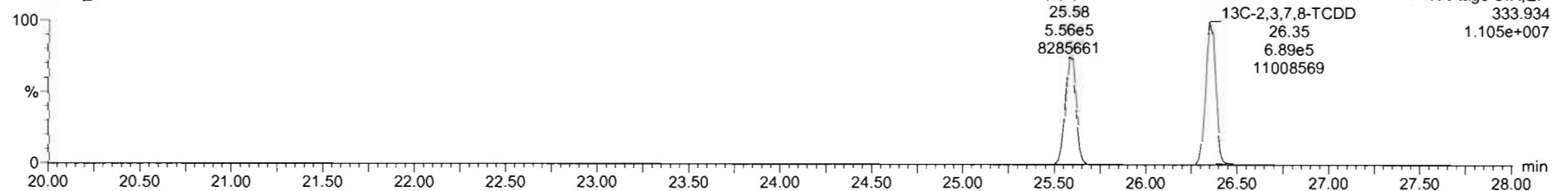


13C-2,3,7,8-TCDD

201216R1_6



201216R1_6



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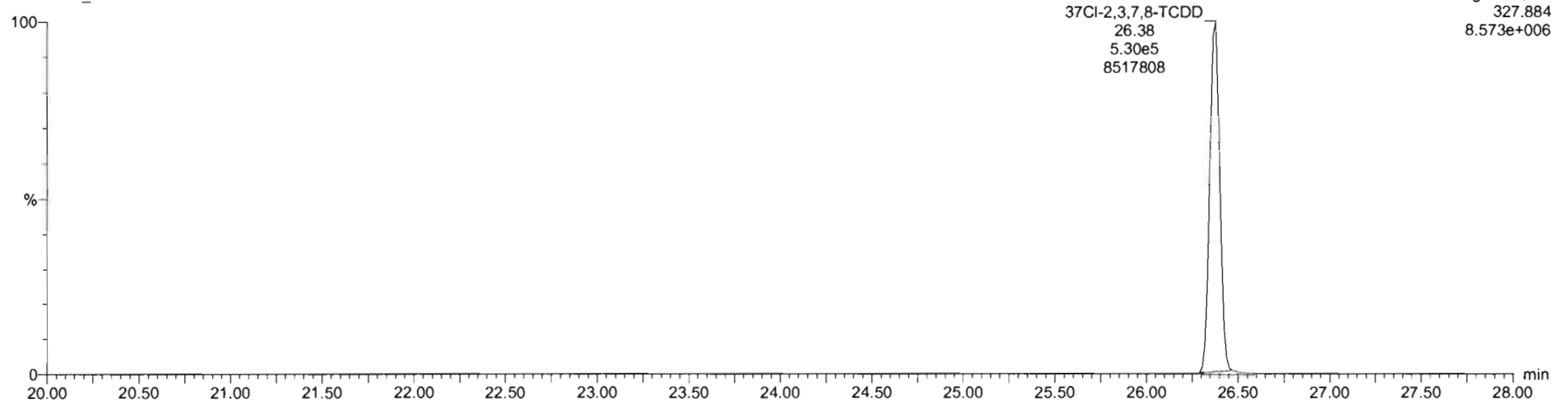
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Name: 201216R1_6, Date: 16-Dec-2020, Time: 12:15:26, ID: 2002493-04 USMPDI-012SC-A-04-05-201109 12.04, Description: USMPDI-012SC-A-04-05-201109

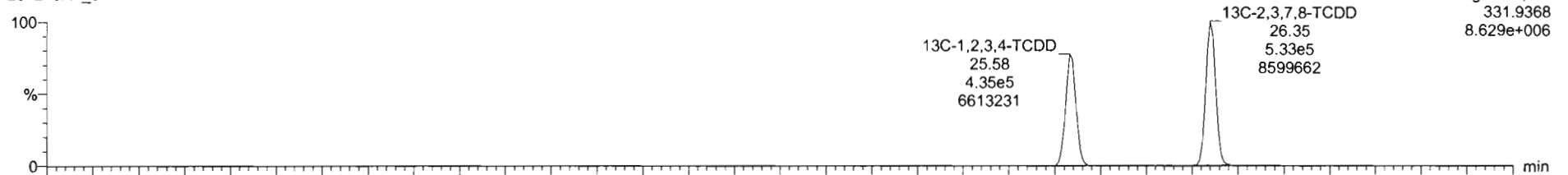
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201216R1_6

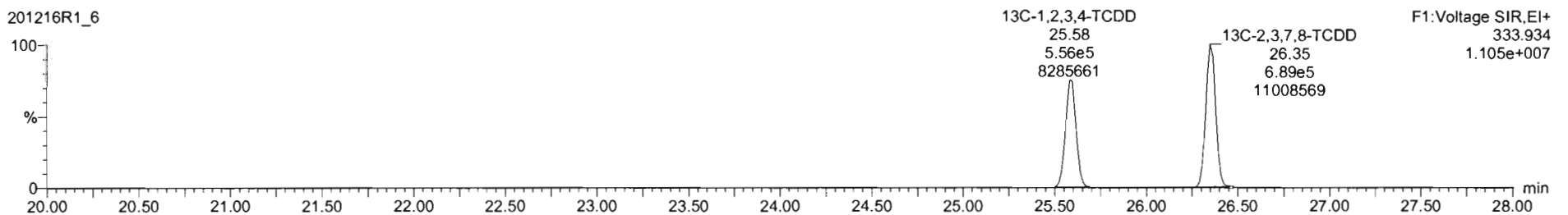


13C-1,2,3,4-TCDD

201216R1_6



201216R1_6



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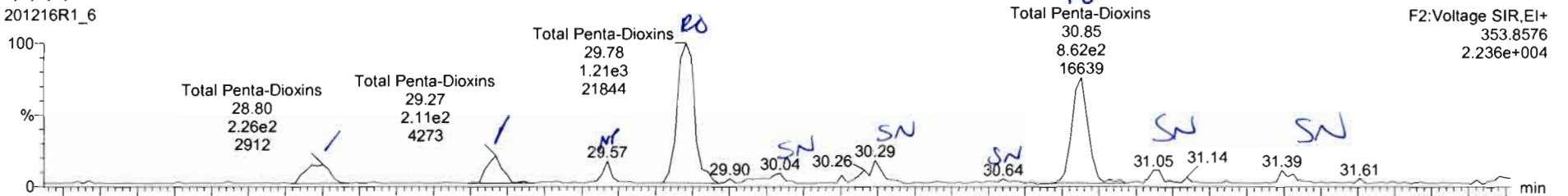
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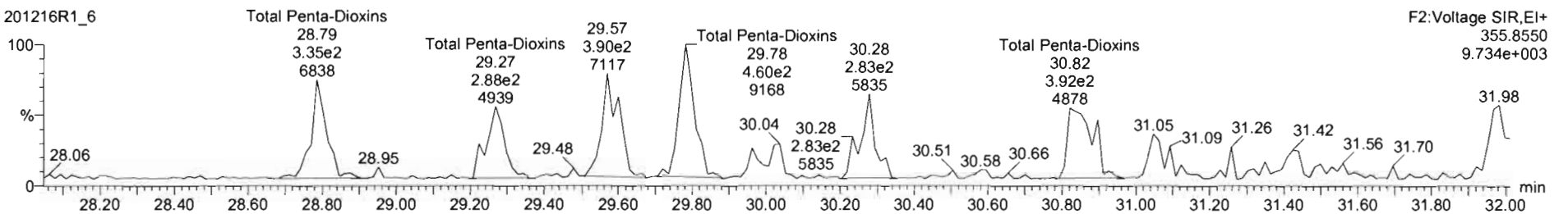
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1,2,3,7,8-PeCDD

201216R1_6

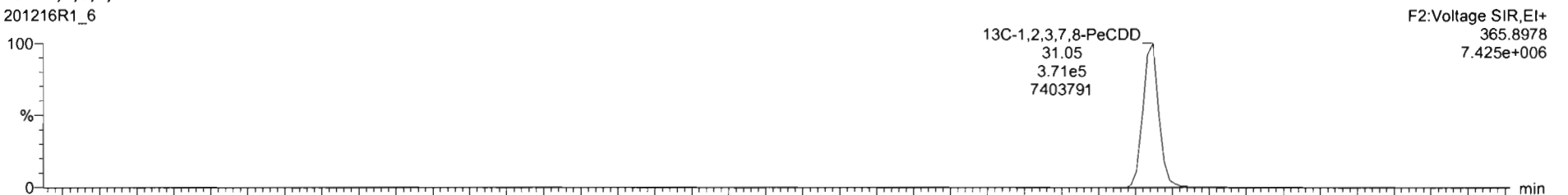


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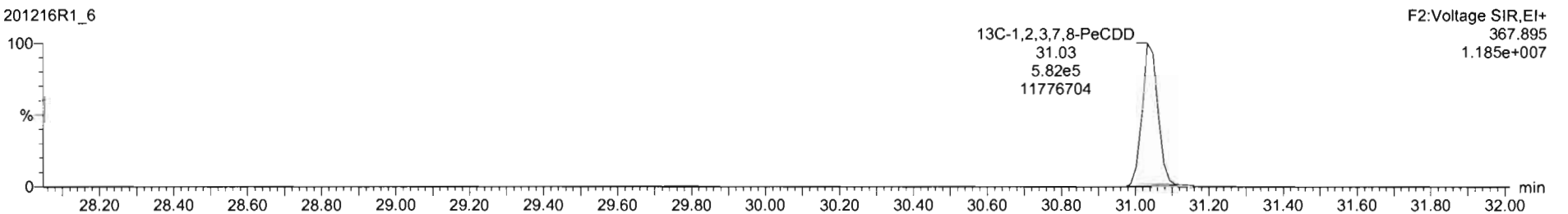


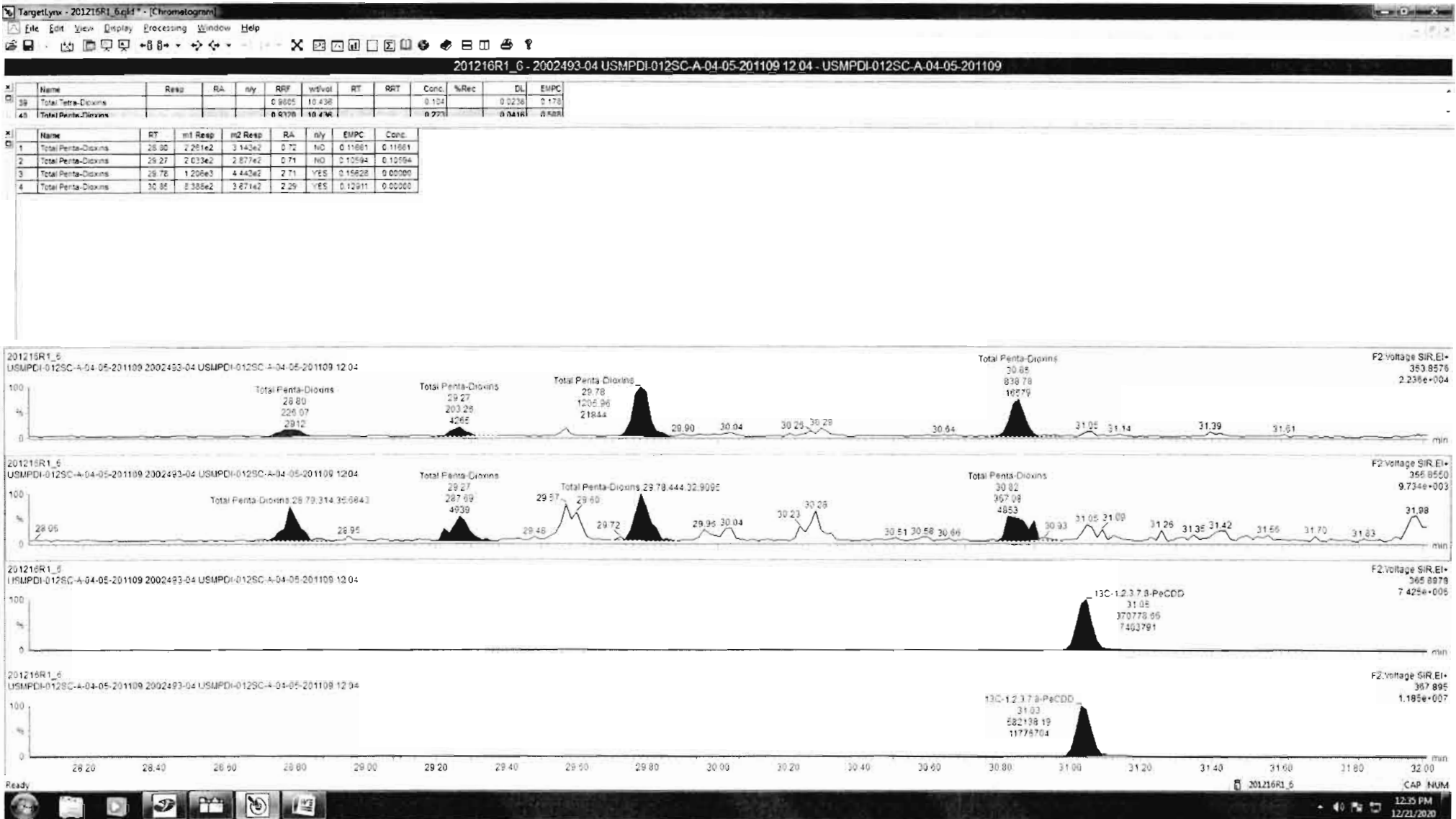
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201216R1_6



201216R1_6





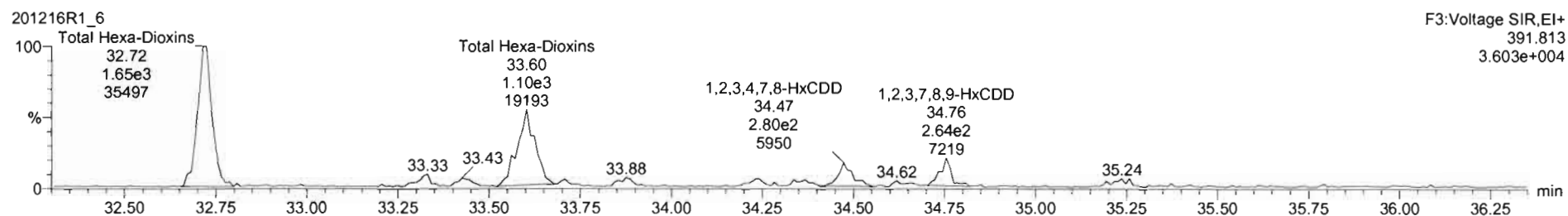
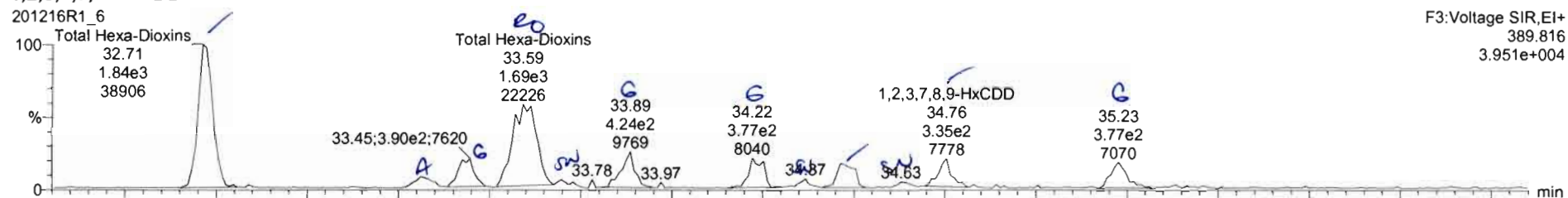
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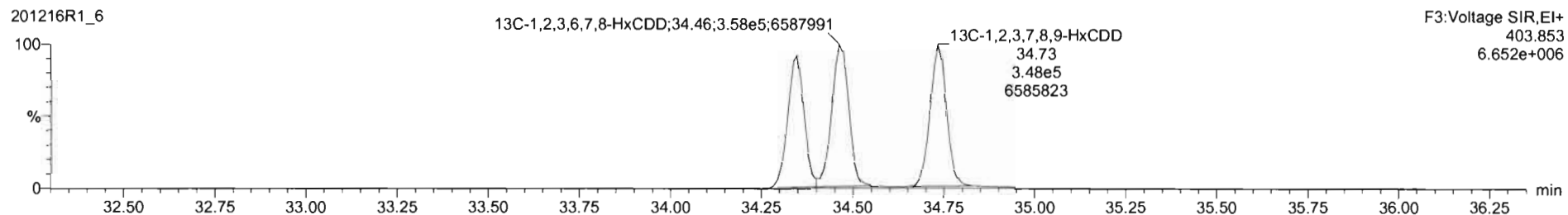
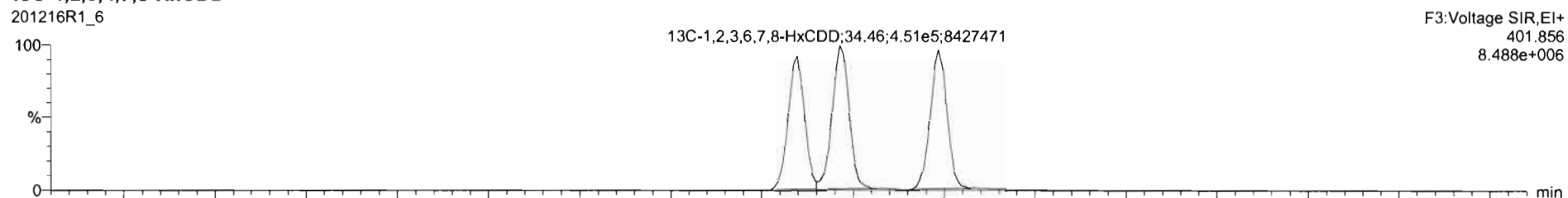
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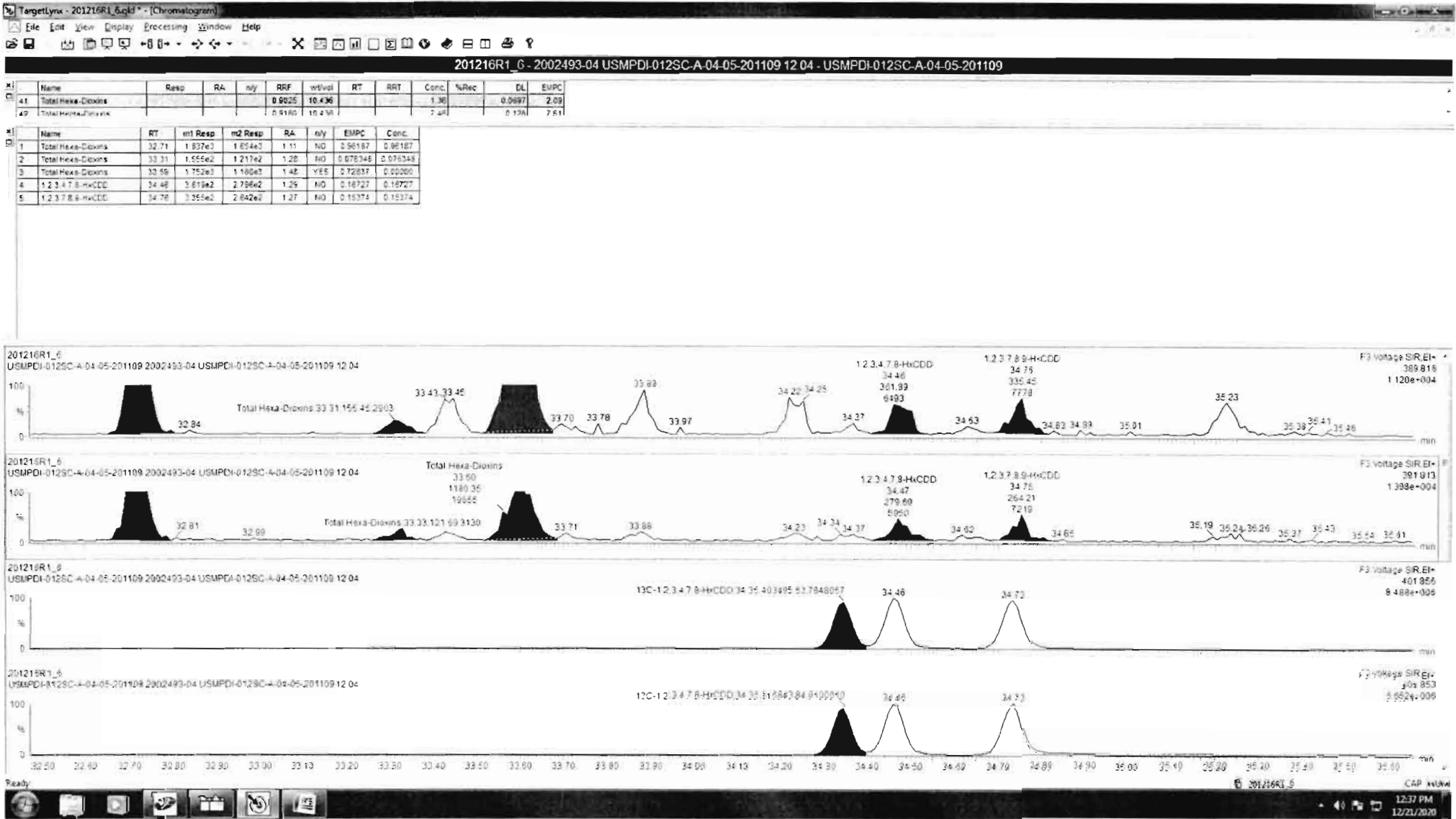
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1,2,3,4,7,8-HxCDD



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





Dataset: Untitled

Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time

Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_6, Date: 16-Dec-2020, Time: 12:15:26, ID: 2002493-04 USMPDI-012SC-A-04-05-201109 12.04, Description: USMPDI-012SC-A-04-05-201109

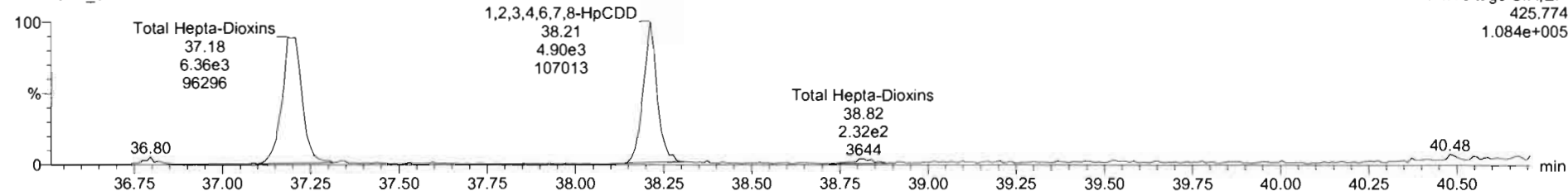
1,2,3,4,6,7,8-HpCDD

201216R1_6



F4:Voltage SIR,EI+
423.777
1.074e+005

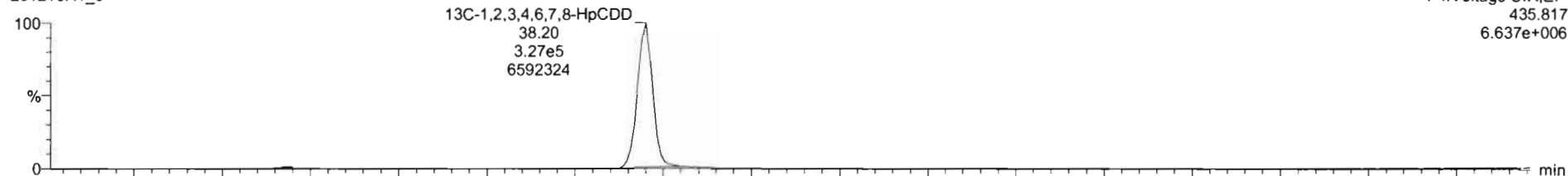
201216R1_6



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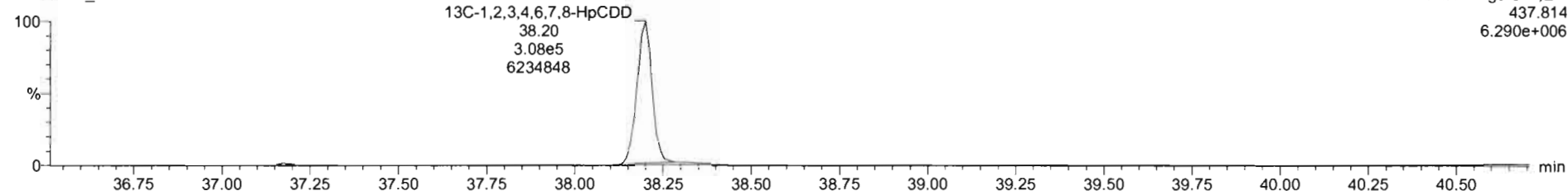
13C-1,2,3,4,6,7,8-HpCDD

201216R1_6



F4:Voltage SIR,EI+
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6.637e+006

201216R1_6

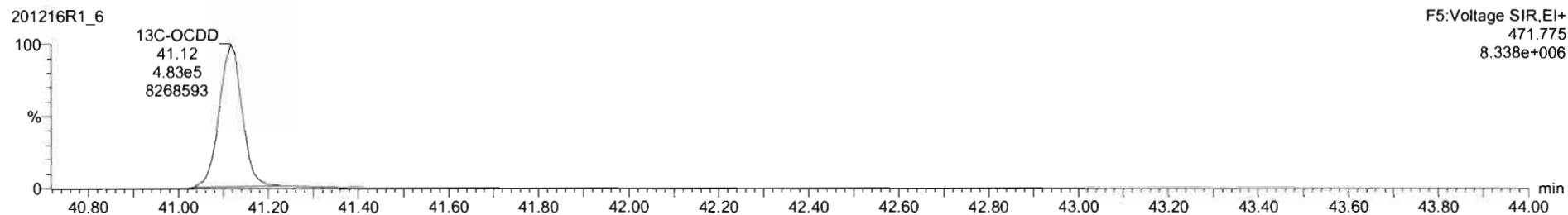
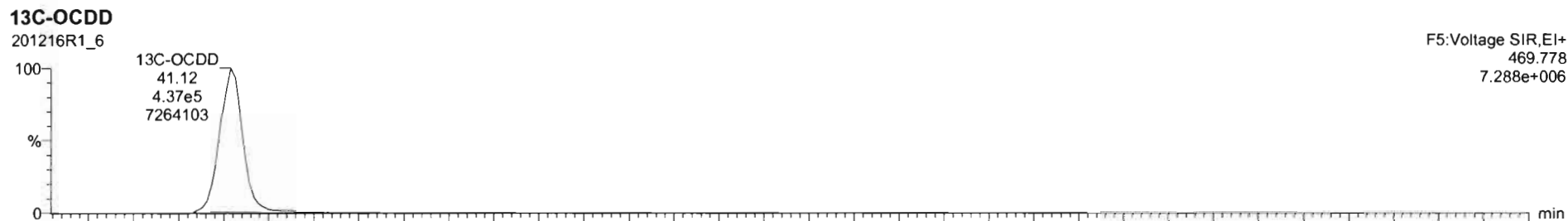
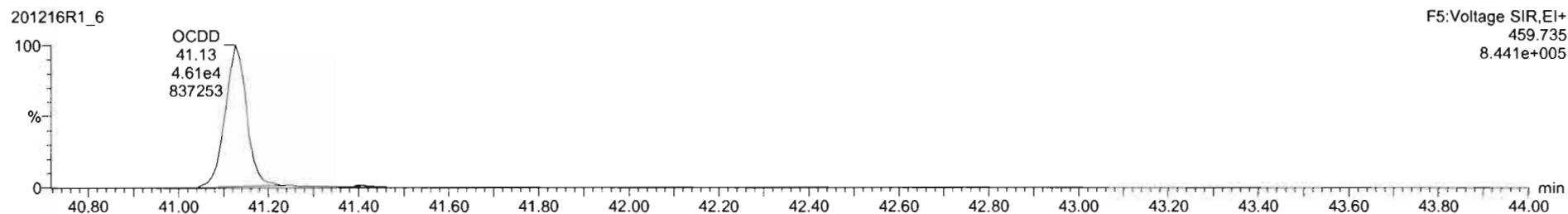
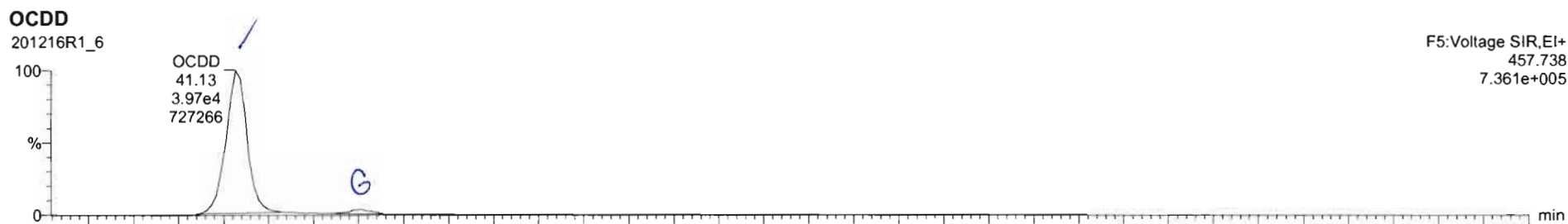


F4:Voltage SIR,EI+
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6.290e+006

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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

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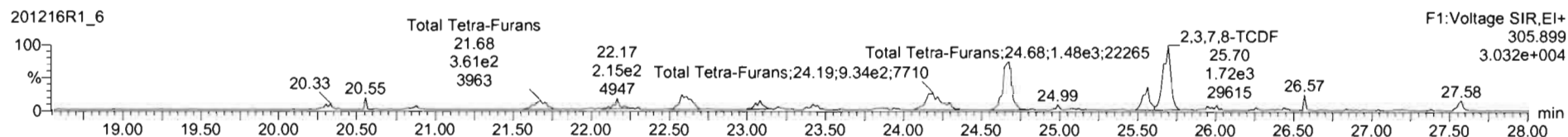
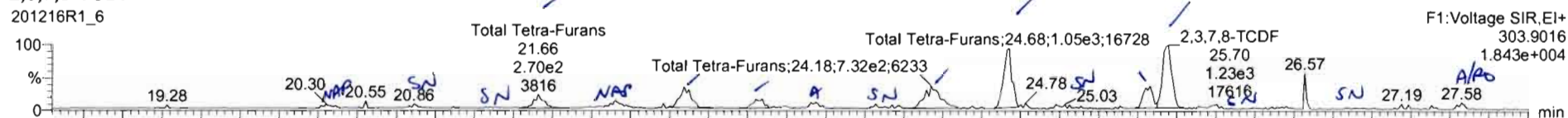
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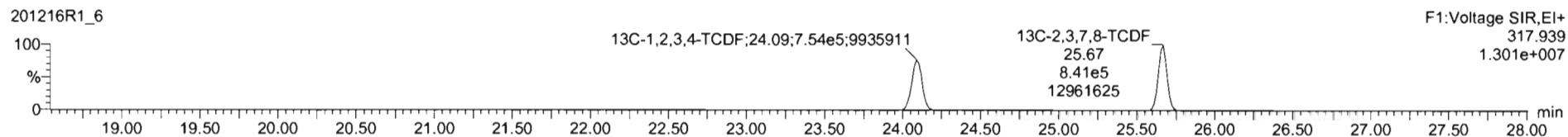
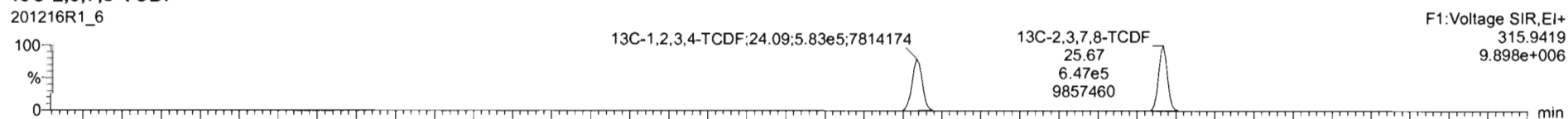
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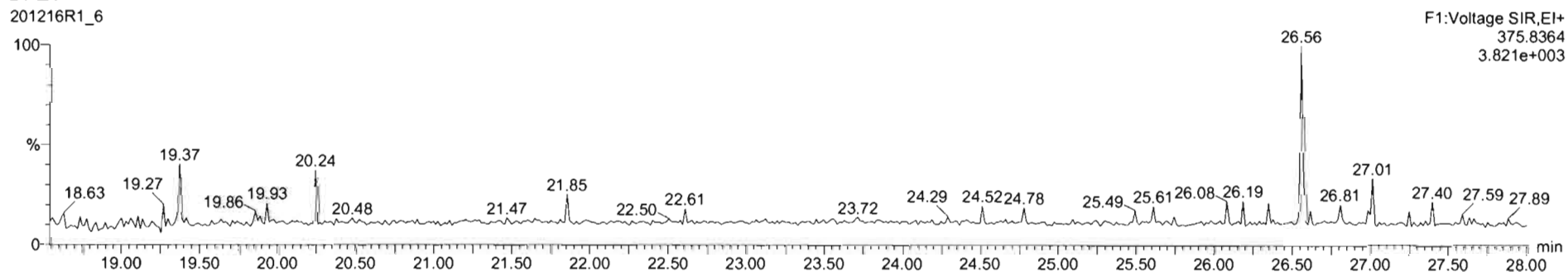
2,3,7,8-TCDF

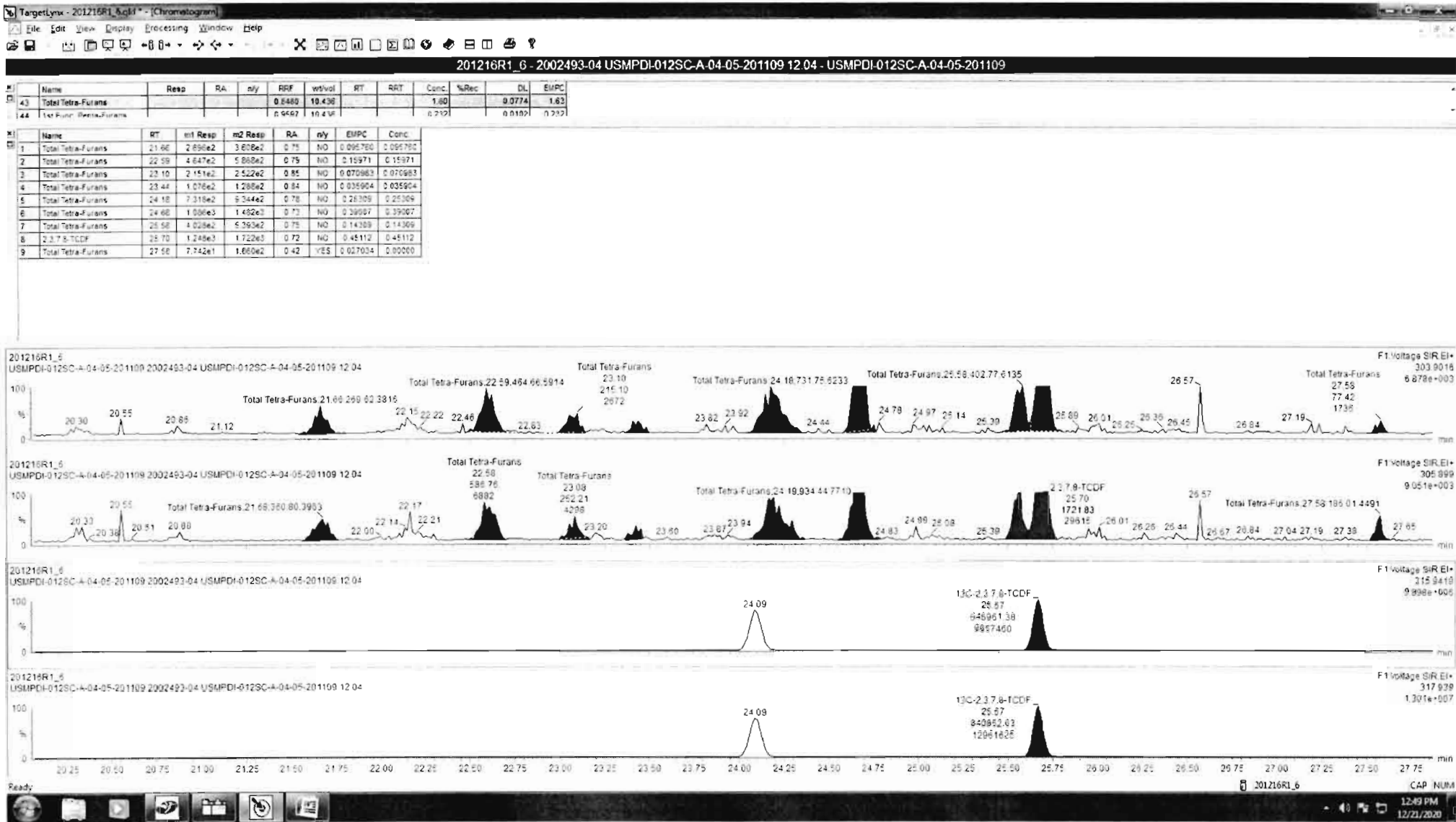


13C-2,3,7,8-TCDF



DPE1





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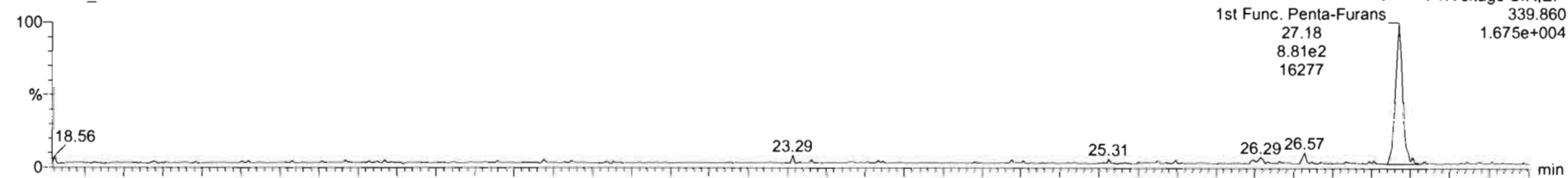
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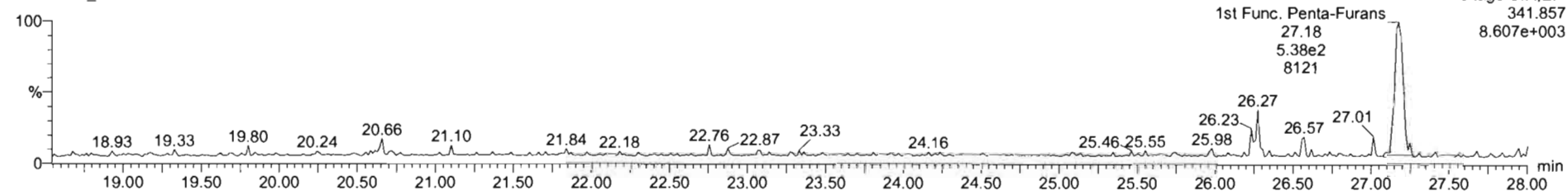
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1st Func. Penta-Furans

201216R1_6

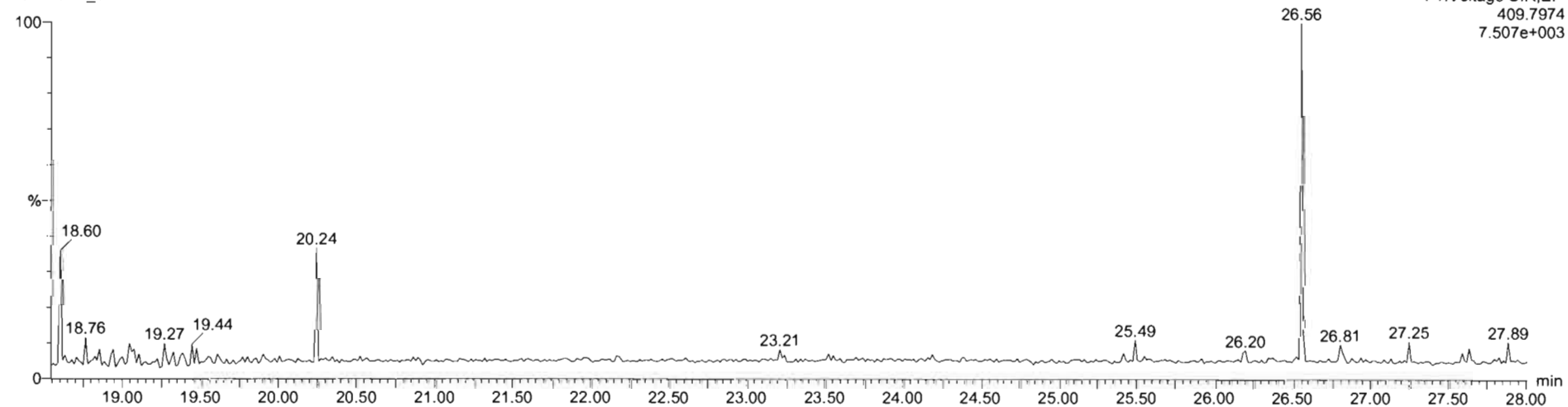


201216R1_6



DPE6

201216R1_6

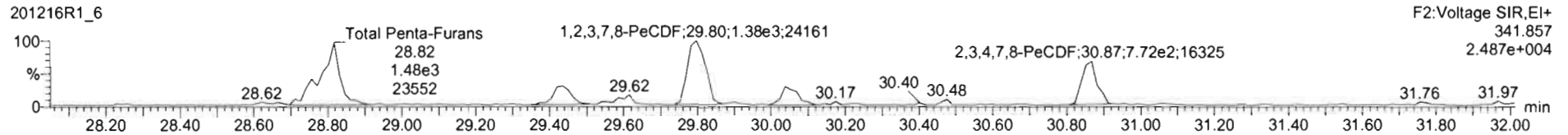
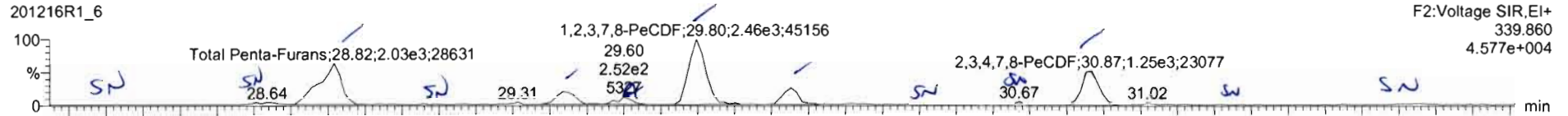


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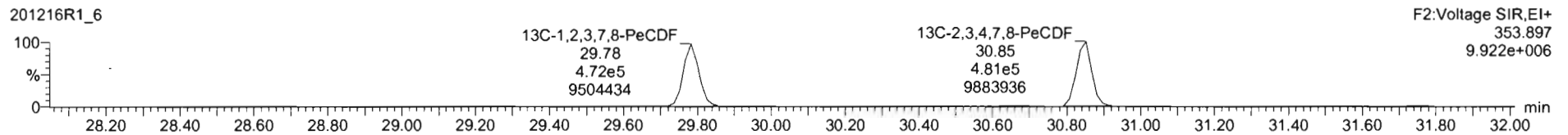
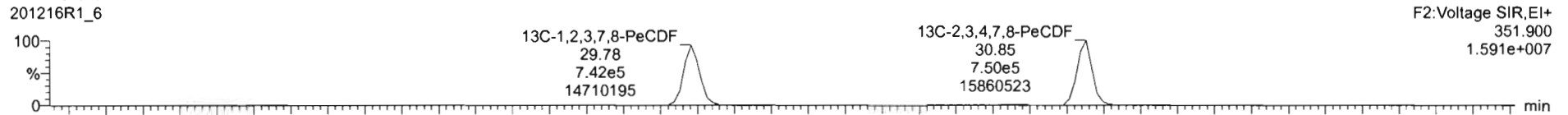
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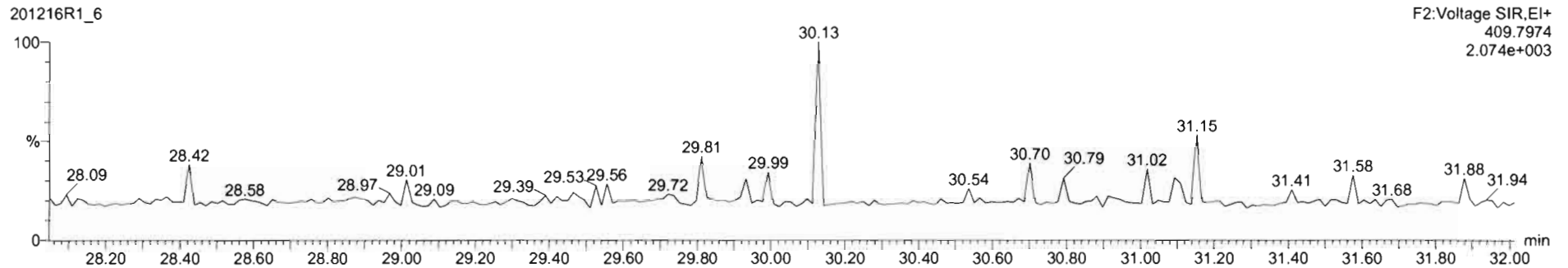
1,2,3,7,8-PeCDF

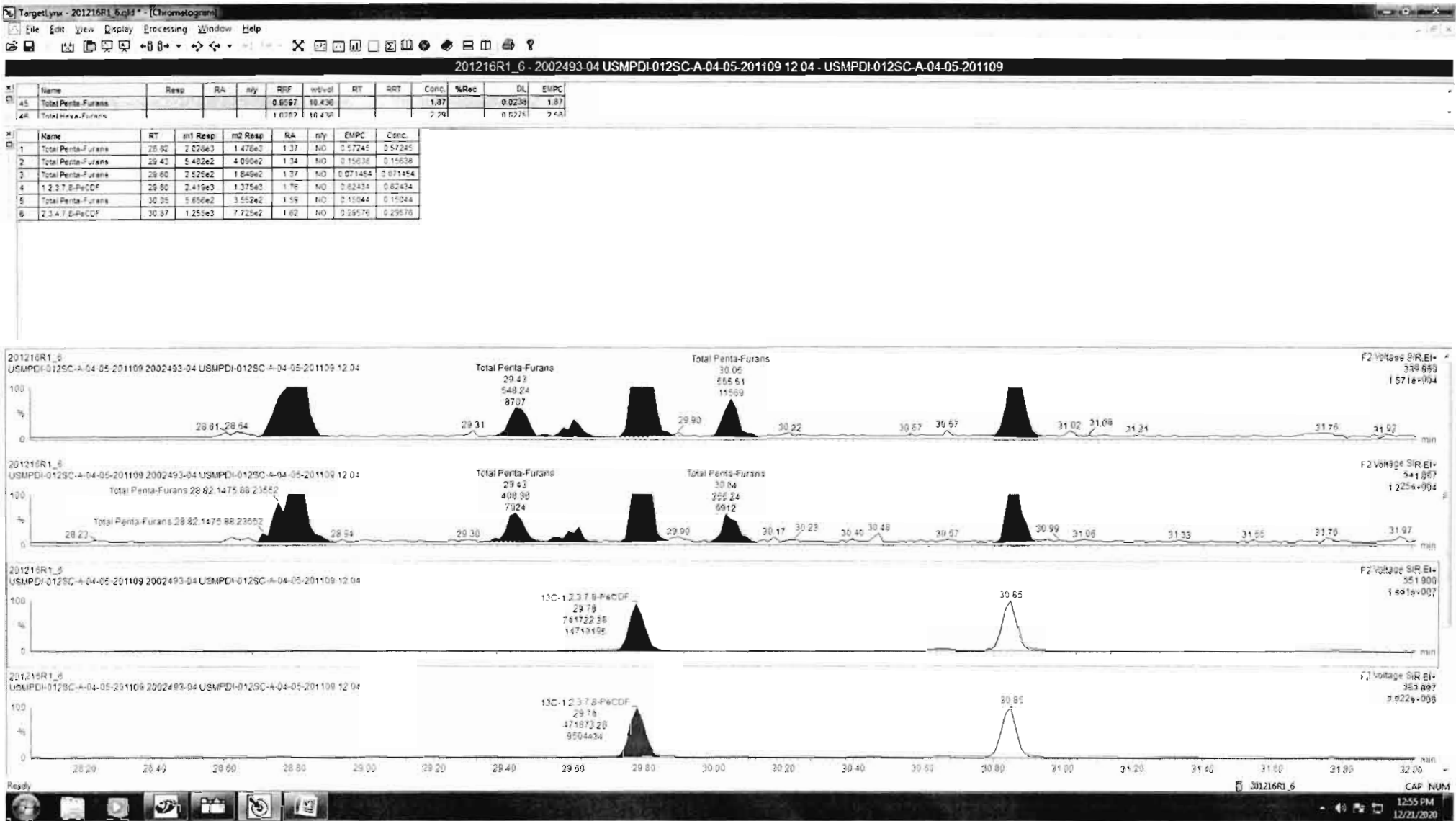


13C-1,2,3,7,8-PeCDF



DPE2



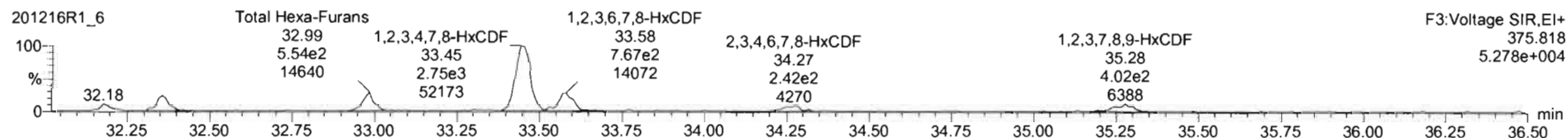
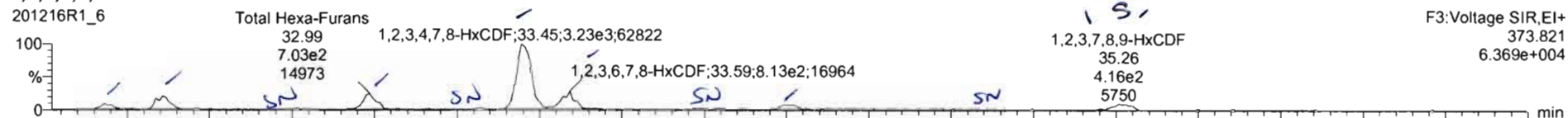


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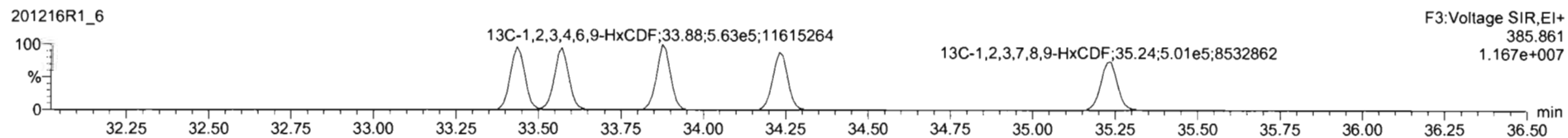
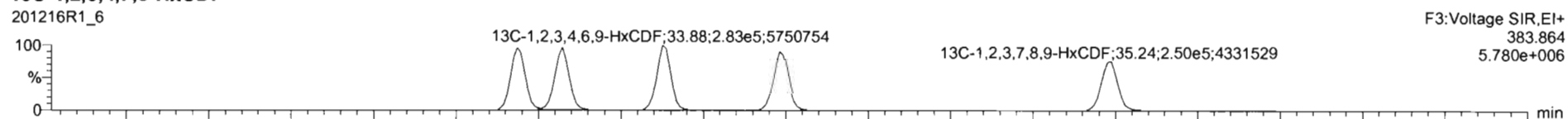
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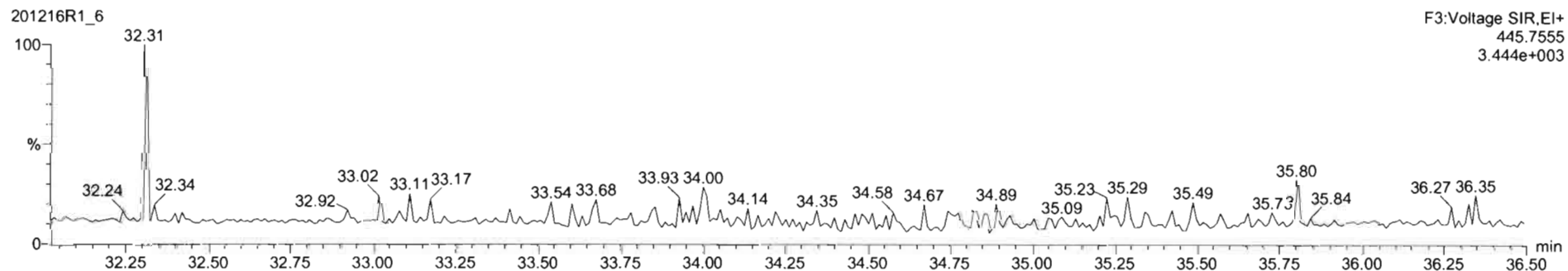
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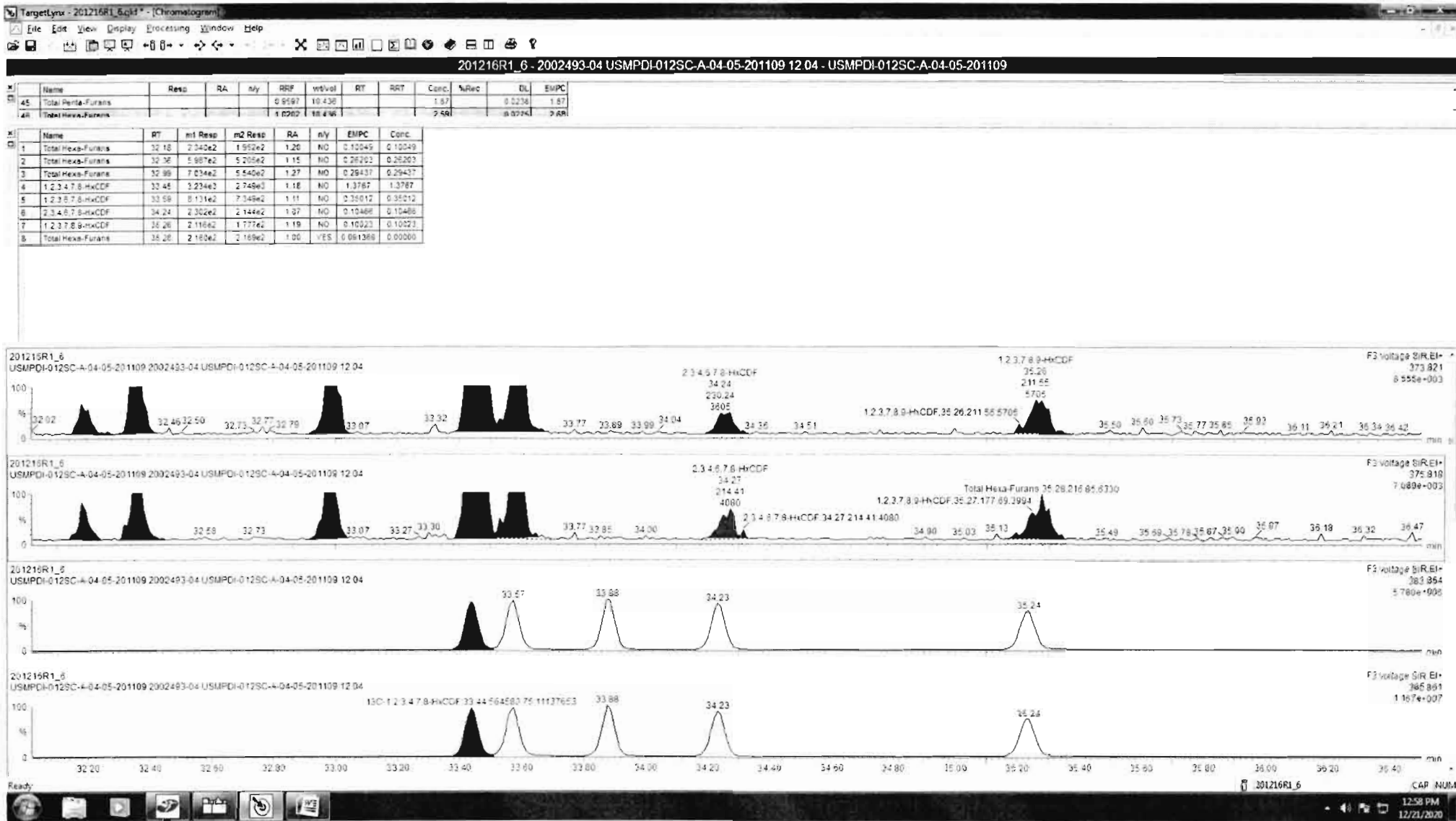


13C-1,2,3,4,7,8-HxCDF



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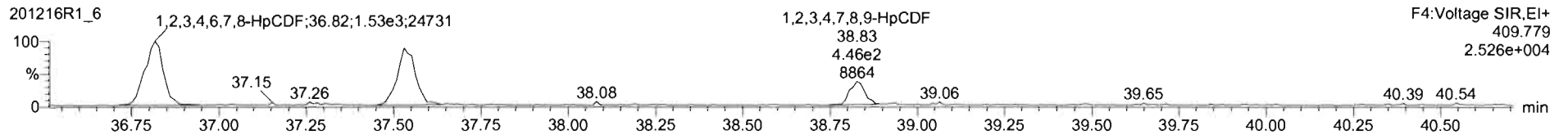
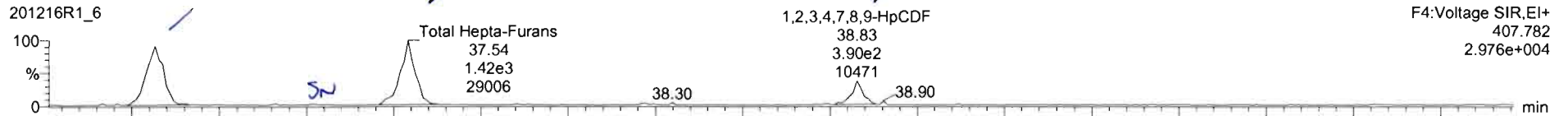


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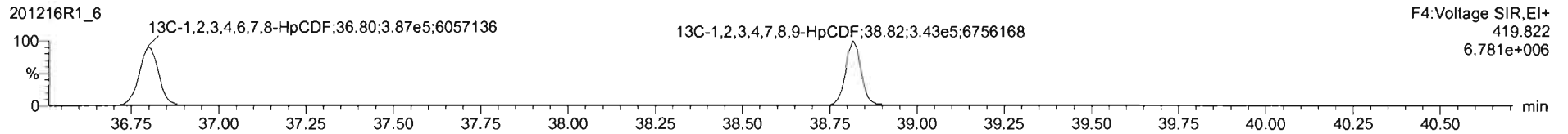
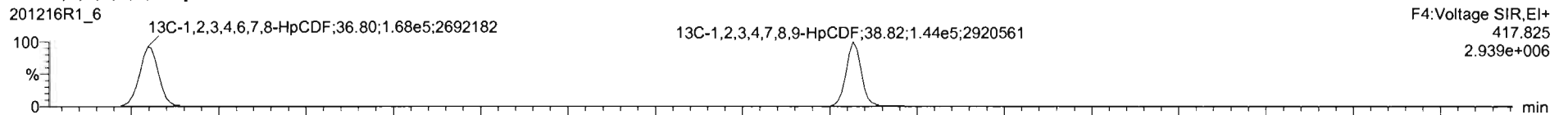
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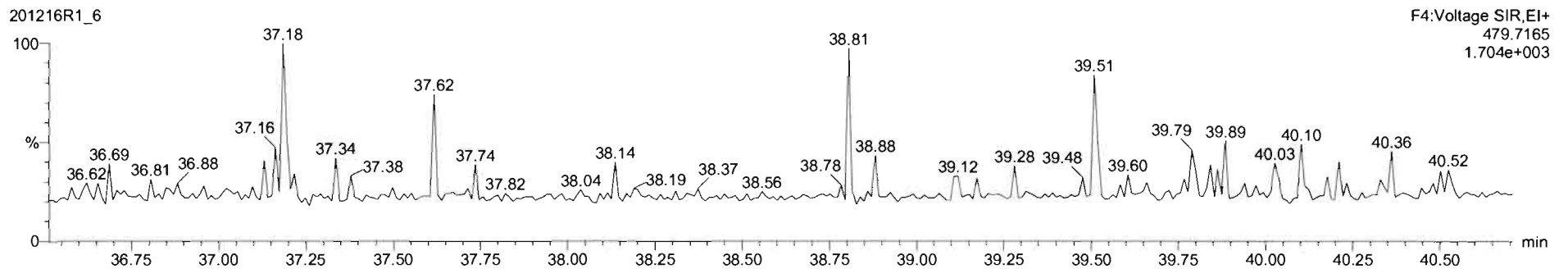
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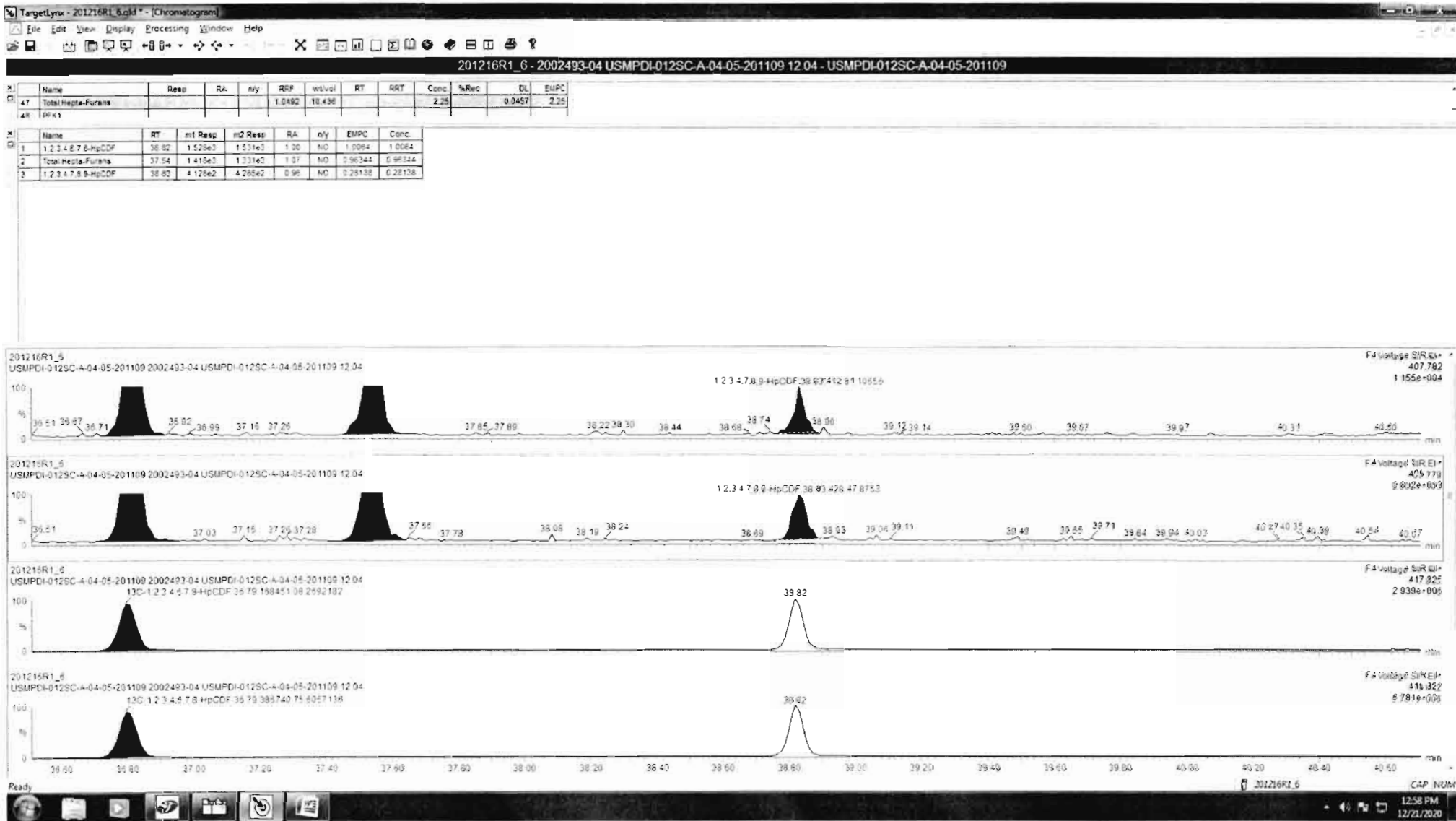


13C-1,2,3,4,6,7,8-HpCDF



DPE4



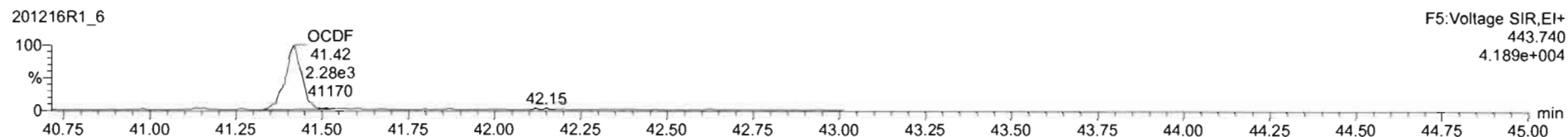


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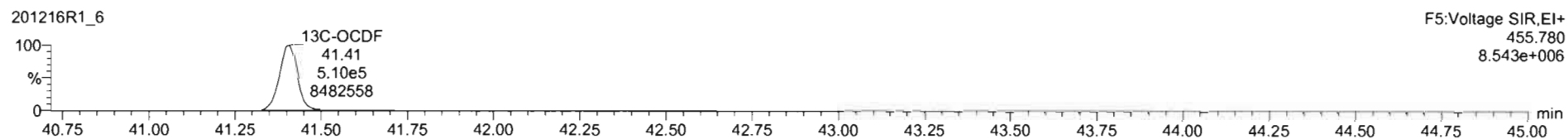
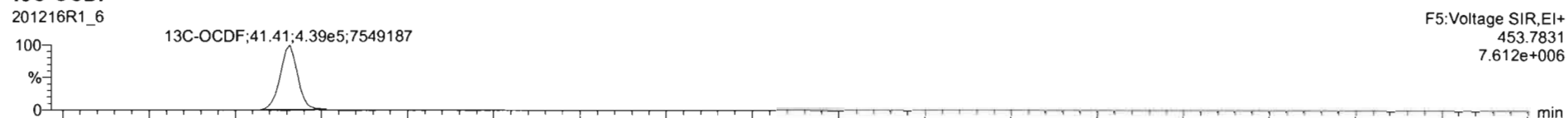
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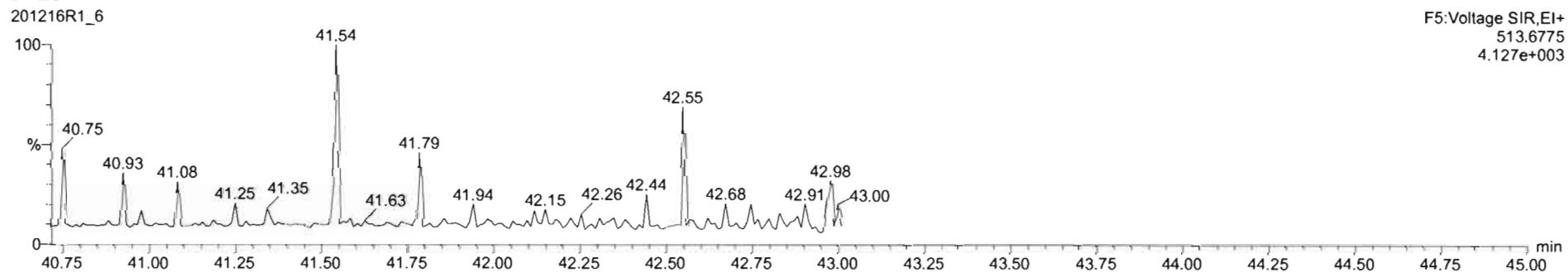
OCDF



13C-OCDF



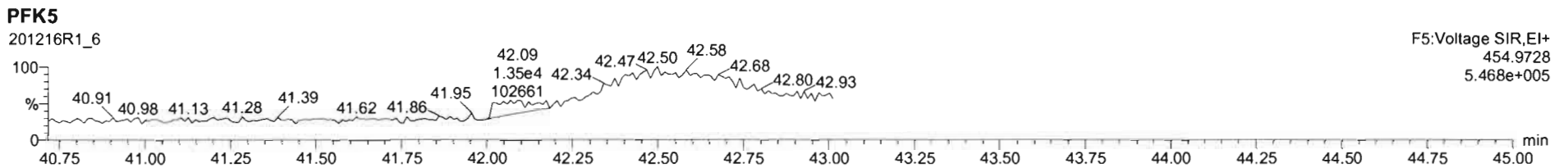
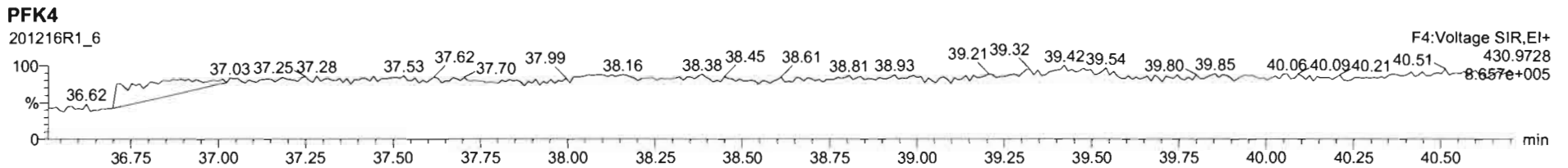
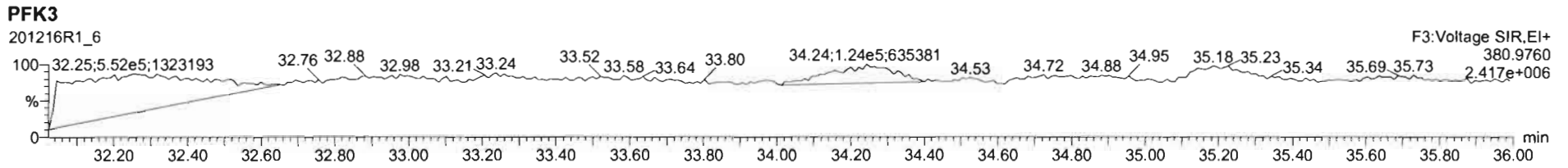
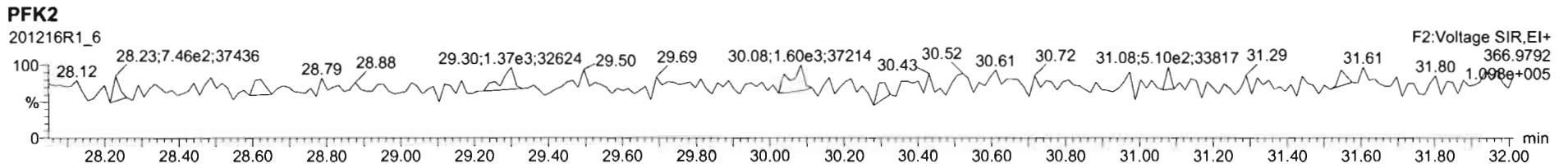
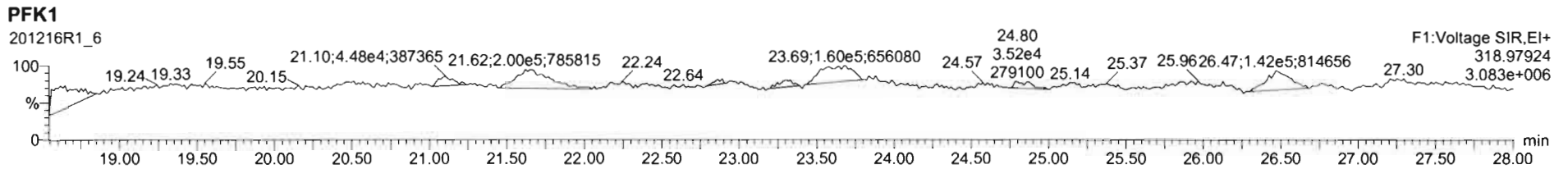
DPE5



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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_7.qld

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GRB 12/21/2020

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

*SEE DIL.

*MW
12/21/2020*

Name: 201216R1_7, Date: 16-Dec-2020, Time: 13:00:35, ID: 2002493-05 USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	2.95e3	0.59	YES	0.980	10.065	26.381	26.38	1.001	1.001	0.47874		0.0322	0.408
2	1,2,3,7,8-PeCDD	5.65e3	0.60	NO	0.932	10.065	31.064	31.06	1.001	1.001	1.2269		0.0615	1.23
3	1,2,3,4,7,8-HxCDD	9.98e3	1.20	NO	1.02	10.065	34.368	34.36	1.001	1.000	2.6522		0.429	2.65
4	1,2,3,6,7,8-HxCDD	1.04e5	1.24	NO	0.902	10.065	34.483	34.48	1.001	1.001	28.107		0.454	28.1
5	1,2,3,7,8,9-HxCDD	2.68e4	1.20	NO	0.954	10.065	34.745	34.74	1.000	1.000	6.9715		0.436	6.97
6	1,2,3,4,6,7,8-HpCDD	6.45e6	1.02	NO	0.918	10.065	38.211	38.21	1.000	1.000	2055.8		1.79	2060
7	OCDD	3.00e7	0.88	NO	0.866	10.065	41.124	41.14	1.000	1.000	17623 E*		1.93	17600
8	2,3,7,8-TCDF	1.87e5	0.72	NO	0.848	10.065	25.672	25.68	1.000	1.001	28.566		0.108	28.6
9	1,2,3,7,8-PeCDF	2.96e5	1.54	NO	0.960	10.065	29.799	29.80	1.000	1.000	51.267		0.212	51.3
10	2,3,4,7,8-PeCDF	2.47e5	1.51	NO	1.07	10.065	30.859	30.87	1.001	1.001	36.676		0.148	36.7
11	1,2,3,4,7,8-HxCDF	3.96e5	1.20	NO	0.986	10.065	33.446	33.45	1.000	1.000	94.722		0.175	94.7
12	1,2,3,6,7,8-HxCDF	1.16e5	1.23	NO	1.04	10.065	33.592	33.58	1.001	1.000	26.633		0.173	26.6
13	1,2,3,4,6,7,8-HxCDF	4.25e4	1.20	NO	1.02	10.065	34.253	34.25	1.001	1.001	10.634		0.191	10.6
14	1,2,3,7,8,9-HxCDF	1.07e4	1.11	NO	0.991	10.065	35.238	35.26	1.000	1.001	2.8724		0.232	2.87
15	1,2,3,4,6,7,8-HpCDF	4.55e5	1.00	NO	1.05	10.065	36.824	36.82	1.000	1.000	156.85		0.508	157
16	1,2,3,4,7,8,9-HpCDF	5.05e4	0.98	NO	1.18	10.065	38.828	38.83	1.000	1.000	18.009		0.390	18.0
17	OCDF	9.26e5	0.86	NO	0.896	10.065	41.406	41.42	1.000	1.001	504.00		0.462	504
18	13C-2,3,7,8-TCDD	1.25e6	0.77	NO	1.06	10.065	26.353	26.35	1.030	1.030	231.80	117	0.138	
19	13C-1,2,3,7,8-PeCDD	9.83e5	0.63	NO	0.785	10.065	31.192	31.03	1.219	1.213	245.98	124	0.173	
20	13C-1,2,3,4,7,8-HxCDD	7.33e5	1.28	NO	0.621	10.065	34.337	34.35	1.014	1.014	268.49	135	0.430	
21	13C-1,2,3,6,7,8-HxCDD	8.16e5	1.27	NO	0.734	10.065	34.459	34.46	1.017	1.017	252.66	127	0.364	
22	13C-1,2,3,7,8,9-HxCDD	8.02e5	1.24	NO	0.723	10.065	34.743	34.74	1.026	1.025	252.06	127	0.369	
23	13C-1,2,3,4,6,7,8-HpCDD	6.79e5	1.04	NO	0.568	10.065	38.243	38.20	1.129	1.128	271.88	137	0.604	
24	13C-OCDD	7.80e5	0.89	NO	0.496	10.065	41.180	41.12	1.216	1.214	357.64	90.0	0.576	
25	13C-2,3,7,8-TCDF	1.54e6	0.77	NO	0.919	10.065	25.652	25.67	1.003	1.003	242.55	122	0.171	
26	13C-1,2,3,7,8-PeCDF	1.20e6	1.57	NO	0.715	10.065	29.903	29.80	1.169	1.165	242.77	122	0.358	
27	13C-2,3,4,7,8-PeCDF	1.25e6	1.59	NO	0.689	10.065	30.990	30.84	1.212	1.206	263.95	133	0.372	
28	13C-1,2,3,4,7,8-HxCDF	8.42e5	0.50	NO	0.873	10.065	33.442	33.44	0.987	0.987	219.18	110	0.394	
29	13C-1,2,3,6,7,8-HxCDF	8.34e5	0.50	NO	0.933	10.065	33.571	33.57	0.991	0.991	202.99	102	0.368	
30	13C-2,3,4,6,7,8-HxCDF	7.79e5	0.50	NO	0.843	10.065	34.238	34.23	1.011	1.011	210.06	106	0.408	
31	13C-1,2,3,7,8,9-HxCDF	7.44e5	0.50	NO	0.780	10.065	35.238	35.23	1.040	1.040	216.80	109	0.441	

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#	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	5.49e5	0.43	NO	0.726	10.065	36.813	36.81	1.087	1.086	171.87	86.5	0.477	
33	13C-1,2,3,4,7,8,9-HpCDF	4.74e5	0.43	NO	0.491	10.065	38.822	38.82	1.146	1.146	219.17	110	0.705	
34	13C-OCDF	8.15e5	0.86	NO	0.565	10.065	41.396	41.40	1.222	1.222	327.35	82.4	0.601	
35	37Cl-2,3,7,8-TCDD	5.43e5			1.22	10.065	26.347	26.38	1.030	1.031	87.627	110	0.0447	
36	13C-1,2,3,4-TCDD	1.01e6	0.78	NO	1.00	10.065	25.640	25.58	1.000	1.000	198.71	100	0.146	
37	13C-1,2,3,4-TCDF	1.37e6	0.78	NO	1.00	10.065	24.130	24.09	1.000	1.000	198.71	100	0.157	
38	13C-1,2,3,4,6,9-HxCDF	8.75e5	0.50	NO	1.00	10.065	33.920	33.88	1.000	1.000	198.71	100	0.344	
39	Total Tetra-Dioxins				0.980	10.065	24.620		0.000		13.051		0.0322	14.2
40	Total Penta-Dioxins				0.932	10.065	29.960		0.000		23.758		0.0615	27.2
41	Total Hexa-Dioxins				0.902	10.065	33.635		0.000		394.65		0.466	395
42	Total Hepta-Dioxins				0.918	10.065	37.640		0.000		4589.6		1.79	4590
43	Total Tetra-Furans				0.848	10.065	23.610		0.000		112.07		0.108	125
44	1st Func. Penta-Furans				0.960	10.065	26.930		0.000		82.905		0.0388	82.9
45	Total Penta-Furans				0.960	10.065	29.275		0.000		180.32		0.188	180
46	Total Hexa-Furans				1.02	10.065	33.555		0.000		285.95		0.189	286
47	Total Hepta-Furans				1.05	10.065	37.835		0.000		546.74		0.475	547

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Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
 Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_7, Date: 16-Dec-2020, Time: 13:00:35, ID: 2002493-05 USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1	Total Tetra-Dioxins	22.58	1.645e5	2.263e5	1.504e4	2.002e4	0.75	NO	3.506e4	5.7046	5.7046	0.0322
2	Total Tetra-Dioxins	22.92	3.954e4	6.424e4	3.770e3	5.187e3	0.73	NO	8.957e3	1.4574	1.4574	0.0322
3	Total Tetra-Dioxins	23.45	1.583e4	2.420e4	1.425e3	1.800e3	0.79	NO	3.225e3	0.52478	0.52478	0.0322
4	Total Tetra-Dioxins	24.28	1.244e4	1.638e4	8.791e2	1.148e3	0.77	NO	2.028e3	0.32992	0.32992	0.0322
5	Total Tetra-Dioxins	24.50	3.821e4	5.033e4	3.252e3	4.097e3	0.79	NO	7.349e3	1.1958	1.1958	0.0322
6	Total Tetra-Dioxins	24.74	3.859e4	4.211e4	2.360e3	3.108e3	0.76	NO	5.467e3	0.88964	0.88964	0.0322
7	Total Tetra-Dioxins	24.94	1.134e4	1.790e4	8.509e2	1.258e3	0.68	NO	2.108e3	0.34308	0.34308	0.0322
8	Total Tetra-Dioxins	25.23	9.762e3	1.330e4	7.870e2	9.186e2	0.86	NO	1.706e3	0.27755	0.27755	0.0322
9	Total Tetra-Dioxins	25.30	1.621e4	2.570e4	1.134e3	1.545e3	0.73	NO	0.000e0	0.00000	0.43593	0.0322
10	Total Tetra-Dioxins	25.62	8.884e3	9.834e3	4.913e2	6.035e2	0.81	NO	1.095e3	0.17814	0.17814	0.0322
11	Total Tetra-Dioxins	25.70	1.780e4	1.661e4	1.232e3	1.197e3	1.03	YES	0.000e0	0.00000	0.34466	0.0322
12	Total Tetra-Dioxins	25.82	6.055e3	7.662e3	3.736e2	5.315e2	0.70	NO	9.050e2	0.14727	0.14727	0.0322
13	Total Tetra-Dioxins	26.10	3.592e4	5.394e4	3.360e3	4.694e3	0.72	NO	8.054e3	1.3106	1.3106	0.0322
14	2,3,7,8-TCDD	26.38	1.948e4	2.774e4	1.091e3	1.857e3	0.59	YES	2.948e3	0.00000	0.40822	0.0322
15	Total Tetra-Dioxins	26.69	1.539e4	2.249e4	1.057e3	1.439e3	0.73	NO	2.496e3	0.40618	0.40618	0.0322
16	Total Tetra-Dioxins	26.82	2.674e3	5.279e3	2.276e2	3.165e2	0.72	NO	5.441e2	0.088531	0.088531	0.0322
17	Total Tetra-Dioxins	27.24	8.758e3	1.119e4	5.649e2	6.508e2	0.87	NO	1.216e3	0.19782	0.19782	0.0322

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Penta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Penta-Dioxins	28.80	1.842e5	3.159e5	1.339e4	2.278e4	0.59	NO	3.617e4	7.8490	7.8490	0.0615
Total Penta-Dioxins	29.25	4.879e4	9.384e4	2.988e3	4.743e3	0.63	NO	7.731e3	1.6776	1.6776	0.0615
Total Penta-Dioxins	29.80	2.199e5	3.765e5	1.100e4	1.652e4	0.67	NO	2.752e4	5.9722	5.9722	0.0615
Total Penta-Dioxins	29.98	6.485e4	1.028e5	2.508e3	3.796e3	0.66	NO	0.000e0	0.00000	1.3679	0.0615
Total Penta-Dioxins	30.02	7.367e4	1.124e5	3.836e3	5.830e3	0.66	NO	0.000e0	0.00000	2.0976	0.0615
Total Penta-Dioxins	30.28	9.801e4	1.599e5	7.383e3	1.204e4	0.61	NO	1.943e4	4.2159	4.2159	0.0615
Total Penta-Dioxins	30.58	3.010e4	5.100e4	1.823e3	2.670e3	0.68	NO	4.493e3	0.97498	0.97498	0.0615
1,2,3,7,8-PeCDD	31.06	4.527e4	7.087e4	2.116e3	3.538e3	0.60	NO	5.654e3	1.2269	1.2269	0.0615
Total Penta-Dioxins	31.14	4.532e4	5.532e4	2.010e3	2.854e3	0.70	NO	4.864e3	1.0555	1.0555	0.0615
Total Penta-Dioxins	31.41	2.875e4	4.041e4	1.450e3	2.170e3	0.67	NO	3.620e3	0.78559	0.78559	0.0615

Hexa-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hexa-Dioxins	32.71	6.806e6	5.582e6	3.223e5	2.641e5	1.22	NO	5.864e5	164.75	164.75	0.466
Total Hexa-Dioxins	33.31	6.722e5	5.493e5	3.269e4	2.618e4	1.25	NO	5.887e4	16.539	16.539	0.466
Total Hexa-Dioxins	33.60	4.452e6	3.604e6	3.087e5	2.522e5	1.22	NO	5.609e5	157.59	157.59	0.466
Total Hexa-Dioxins	33.71	3.993e5	3.533e5	2.111e4	1.712e4	1.23	NO	3.823e4	10.740	10.740	0.466
1,2,3,4,7,8-HxCDD	34.36	1.186e5	9.407e4	5.439e3	4.546e3	1.20	NO	9.985e3	2.6522	2.6522	0.429
1,2,3,6,7,8-HxCDD	34.48	1.062e6	8.410e5	5.762e4	4.657e4	1.24	NO	1.042e5	28.107	28.107	0.454
Total Hexa-Dioxins	34.64	2.446e5	2.154e5	1.390e4	1.209e4	1.15	NO	2.599e4	7.3023	7.3023	0.466
1,2,3,7,8,9-HxCDD	34.74	2.794e5	2.360e5	1.464e4	1.220e4	1.20	NO	2.684e4	6.9715	6.9715	0.436

Hepta-Dioxins

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
Total Hepta-Dioxins	37.21	6.062e7	5.908e7	4.016e6	3.936e6	1.02	NO	7.952e6	2533.8	2533.8	1.79
1,2,3,4,6,7,8-HpCDD	38.21	6.255e7	6.170e7	3.252e6	3.199e6	1.02	NO	6.452e6	2055.8	2055.8	1.79

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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	20.32	1.961e4	2.739e4	1.817e3	2.427e3	0.75	NO	4.244e3	0.64703	0.64703	0.108
2 Total Tetra-Furans	20.86	5.335e4	7.511e4	4.686e3	6.571e3	0.71	NO	1.126e4	1.7163	1.7163	0.108
3 Total Tetra-Furans	21.68	3.921e5	5.438e5	3.773e4	5.124e4	0.74	NO	8.897e4	13.564	13.564	0.108
4 Total Tetra-Furans	21.90	4.215e3	5.908e3	2.367e2	2.941e2	0.80	NO	5.308e2	0.080930	0.080930	0.108
5 Total Tetra-Furans	22.06	1.925e4	2.425e4	1.804e3	2.267e3	0.80	NO	4.071e3	0.62064	0.62064	0.108
6 Total Tetra-Furans	22.17	2.326e4	3.483e4	2.537e3	3.403e3	0.75	NO	5.940e3	0.90556	0.90556	0.108
7 Total Tetra-Furans	22.25	2.400e4	3.346e4	1.846e3	2.482e3	0.74	NO	4.327e3	0.65976	0.65976	0.108
8 Total Tetra-Furans	22.51	1.720e4	2.419e4	9.113e2	1.303e3	0.70	NO	2.214e3	0.33752	0.33752	0.108
9 Total Tetra-Furans	22.61	3.358e5	4.774e5	2.988e4	4.173e4	0.72	NO	7.161e4	10.917	10.917	0.108
10 Total Tetra-Furans	23.08	3.309e5	4.590e5	2.828e4	3.824e4	0.74	NO	6.652e4	10.141	10.141	0.108
11 Total Tetra-Furans	23.17	1.197e4	1.999e4	9.751e2	1.305e3	0.75	NO	2.280e3	0.34766	0.34766	0.108
12 Total Tetra-Furans	23.44	4.487e4	6.354e4	3.811e3	5.051e3	0.75	NO	8.862e3	1.3511	1.3511	0.108
13 Total Tetra-Furans	23.82	1.339e4	1.626e4	9.261e2	1.404e3	0.66	NO	2.330e3	0.35523	0.35523	0.108
14 Total Tetra-Furans	23.95	2.710e4	3.814e4	1.953e3	2.633e3	0.74	NO	4.586e3	0.69916	0.69916	0.108
15 Total Tetra-Furans	24.19	2.088e5	2.741e5	7.906e3	1.121e4	0.70	NO	0.000e0	0.00000	2.9152	0.108
16 Total Tetra-Furans	24.23	3.223e5	4.376e5	2.492e4	3.345e4	0.75	NO	0.000e0	0.00000	8.8996	0.108
17 Total Tetra-Furans	24.50	2.579e4	3.959e4	1.850e3	2.719e3	0.68	NO	4.569e3	0.69661	0.69661	0.108
18 Total Tetra-Furans	24.66	9.950e5	1.404e6	7.219e4	9.900e4	0.73	NO	1.712e5	26.099	26.099	0.108
19 Total Tetra-Furans	24.99	4.473e4	6.213e4	3.216e3	4.383e3	0.73	NO	7.600e3	1.1586	1.1586	0.108
20 Total Tetra-Furans	25.09	1.550e4	1.690e4	1.244e3	1.429e3	0.87	NO	2.672e3	0.40744	0.40744	0.108
21 Total Tetra-Furans	25.23	5.468e3	7.063e3	3.328e2	4.484e2	0.74	NO	7.813e2	0.11911	0.11911	0.108
22 Total Tetra-Furans	25.39	2.123e4	3.318e4	1.430e3	2.159e3	0.66	NO	3.589e3	0.54721	0.54721	0.108
23 Total Tetra-Furans	25.55	1.727e5	2.120e5	1.028e4	1.420e4	0.72	NO	2.447e4	3.7314	3.7314	0.108
24 2,3,7,8-TCDF	25.68	1.225e6	1.698e6	7.859e4	1.088e5	0.72	NO	1.874e5	28.566	28.566	0.108
25 Total Tetra-Furans	25.93	1.929e4	2.517e4	8.622e2	1.177e3	0.73	NO	0.000e0	0.00000	0.31090	0.108
26 Total Tetra-Furans	25.99	6.158e4	8.849e4	4.186e3	5.748e3	0.73	NO	9.934e3	1.5146	1.5146	0.108
27 Total Tetra-Furans	26.25	1.139e4	1.736e4	7.897e2	1.154e3	0.68	NO	1.943e3	0.29627	0.29627	0.108
28 Total Tetra-Furans	26.36	7.576e3	1.068e4	5.455e2	8.228e2	0.66	NO	1.368e3	0.20861	0.20861	0.108
29 Total Tetra-Furans	26.87	4.862e4	6.722e4	3.070e3	3.923e3	0.78	NO	6.993e3	1.0662	1.0662	0.108
30 Total Tetra-Furans	27.01	6.561e4	8.920e4	3.779e3	5.350e3	0.71	NO	9.128e3	1.3917	1.3917	0.108
31 Total Tetra-Furans	27.19	1.000e5	1.361e5	6.247e3	8.509e3	0.73	NO	1.476e4	2.2498	2.2498	0.108
32 Total Tetra-Furans	27.38	4.004e4	3.210e4	2.262e3	1.515e3	1.49	YES	0.000e0	0.00000	0.40878	0.108

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_7.qld

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Printed: Monday, December 21, 2020 1:38:03 PM Pacific Standard Time

Name: 201216R1_7, Date: 16-Dec-2020, Time: 13:00:35, ID: 2002493-05 USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

Tetra-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
33 Total Tetra-Furans	27.56	7.506e4	1.132e5	4.553e3	6.452e3	0.71	NO	1.100e4	1.6777	1.6777	0.108

Penta-Furans function 1

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1st Func. Penta-Furans	27.18	5.173e6	3.259e6	3.009e5	1.896e5	1.59	NO	4.905e5	82.905	82.905	0.0388

Penta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC	DL
1 Total Penta-Furans	28.65	1.492e5	9.053e4	8.254e3	5.328e3	1.55	NO	1.358e4	2.2956	2.2956	0.188
2 Total Penta-Furans	28.80	2.927e6	1.874e6	1.684e5	1.086e5	1.55	NO	2.770e5	46.820	46.820	0.188
3 Total Penta-Furans	29.18	8.823e3	5.524e3	4.219e2	2.594e2	1.63	NO	6.813e2	0.11515	0.11515	0.188
4 Total Penta-Furans	29.24	1.665e4	1.043e4	1.352e3	8.048e2	1.68	NO	2.157e3	0.36456	0.36456	0.188
5 Total Penta-Furans	29.43	8.367e5	5.171e5	4.270e4	2.741e4	1.56	NO	7.012e4	11.851	11.851	0.188
6 Total Penta-Furans	29.60	3.657e5	2.162e5	1.947e4	1.224e4	1.59	NO	3.171e4	5.3593	5.3593	0.188
7 1,2,3,7,8-PeCDF	29.80	3.974e6	2.571e6	1.798e5	1.166e5	1.54	NO	2.964e5	51.267	51.267	0.212
8 Total Penta-Furans	29.87	4.143e4	2.844e4	1.527e3	9.487e2	1.61	NO	2.475e3	0.41838	0.41838	0.188
9 Total Penta-Furans	30.05	1.598e6	1.015e6	8.206e4	5.176e4	1.59	NO	1.338e5	22.618	22.618	0.188
10 Total Penta-Furans	30.60	1.118e4	7.242e3	5.376e2	3.522e2	1.53	NO	8.898e2	0.15040	0.15040	0.188
11 Total Penta-Furans	30.67	6.518e4	4.524e4	2.900e3	2.136e3	1.36	NO	5.036e3	0.85111	0.85111	0.188
12 2,3,4,7,8-PeCDF	30.87	2.847e6	1.891e6	1.484e5	9.844e4	1.51	NO	2.468e5	36.676	36.676	0.148
13 Total Penta-Furans	31.65	1.257e4	7.544e3	5.601e2	3.594e2	1.56	NO	9.195e2	0.15542	0.15542	0.188
14 Total Penta-Furans	31.77	1.084e5	6.457e4	4.966e3	3.184e3	1.56	NO	8.149e3	1.3774	1.3774	0.188

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_7.qld

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Printed: Monday, December 21, 2020 1:38:03 PM Pacific Standard Time

Name: 201216R1_7, Date: 16-Dec-2020, Time: 13:00:35, ID: 2002493-05 USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

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	6.130e5	5.039e5	2.811e4	2.299e4	1.22	NO	5.111e4	12.444	12.444	0.189
2 Total Hexa-Furans	32.36	2.387e6	1.978e6	1.089e5	9.084e4	1.20	NO	1.997e5	48.621	48.621	0.189
3 Total Hexa-Furans	32.76	2.826e4	2.342e4	1.466e3	1.247e3	1.18	NO	2.714e3	0.66078	0.66078	0.189
4 Total Hexa-Furans	32.99	3.766e6	3.093e6	1.790e5	1.480e5	1.21	NO	3.270e5	79.615	79.615	0.189
5 Total Hexa-Furans	33.32	6.266e4	4.383e4	2.860e3	2.203e3	1.30	NO	5.063e3	1.2328	1.2328	0.189
6 1,2,3,4,7,8-HxCDF	33.45	4.255e6	3.602e6	2.160e5	1.799e5	1.20	NO	3.959e5	94.722	94.722	0.175
7 1,2,3,6,7,8-HxCDF	33.58	1.246e6	1.021e6	6.398e4	5.212e4	1.23	NO	1.161e5	26.633	26.633	0.173
8 Total Hexa-Furans	33.89	2.636e4	2.545e4	1.496e3	1.200e3	1.25	NO	2.696e3	0.65645	0.65645	0.189
9 Total Hexa-Furans	34.04	1.318e4	1.311e4	5.912e2	5.377e2	1.10	NO	1.129e3	0.27487	0.27487	0.189
10 2,3,4,6,7,8-HxCDF	34.25	4.129e5	3.359e5	2.325e4	1.930e4	1.20	NO	4.255e4	10.634	10.634	0.191
11 1,2,3,7,8,9-HxCDF	35.26	2.740e5	2.431e5	5.609e3	5.050e3	1.11	NO	1.066e4	2.8724	2.8724	0.232
12 Total Hexa-Furans	35.28	3.709e5	3.053e5	1.717e4	1.398e4	1.23	NO	3.116e4	7.5864	7.5864	0.189

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	36.82	3.670e6	3.660e6	2.280e5	2.270e5	1.00	NO	4.551e5	156.85	156.85	0.508
2 Total Hepta-Furans	37.22	3.611e4	3.532e4	4.142e3	3.840e3	1.08	NO	7.982e3	2.9550	2.9550	0.475
3 Total Hepta-Furans	37.54	8.269e6	8.042e6	5.012e5	4.954e5	1.01	NO	9.965e5	368.93	368.93	0.475
4 1,2,3,4,7,8,9-HpCDF	38.83	5.204e5	5.228e5	2.503e4	2.545e4	0.98	NO	5.048e4	18.009	18.009	0.390

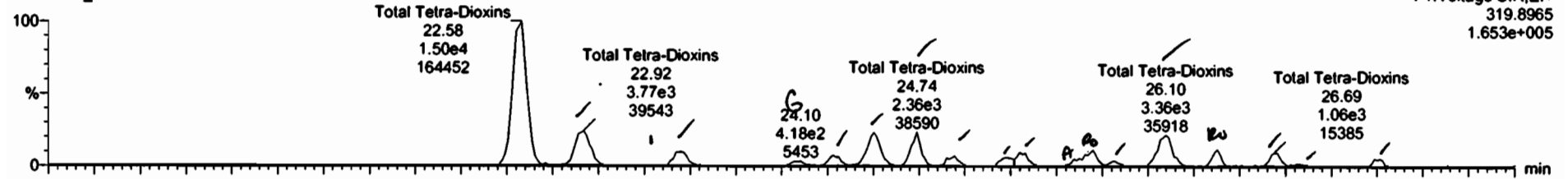
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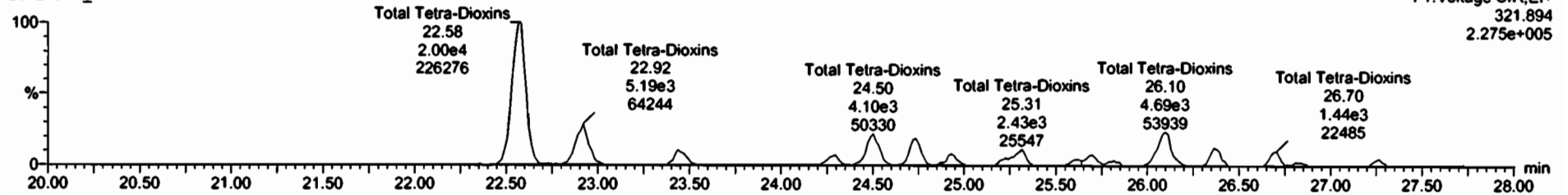
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2,3,7,8-TCDD

201216R1_7



201216R1_7

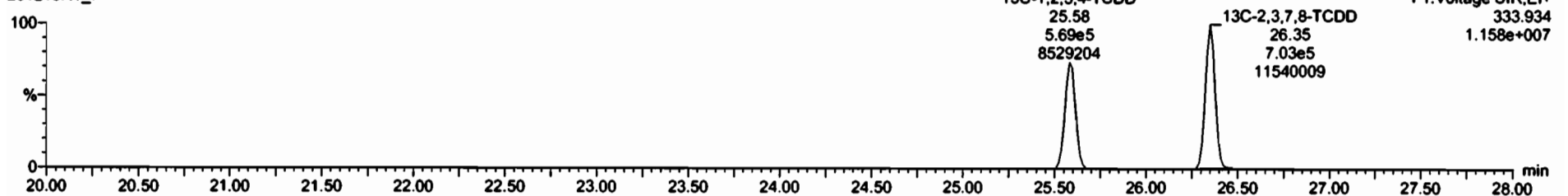


13C-2,3,7,8-TCDD

201216R1_7

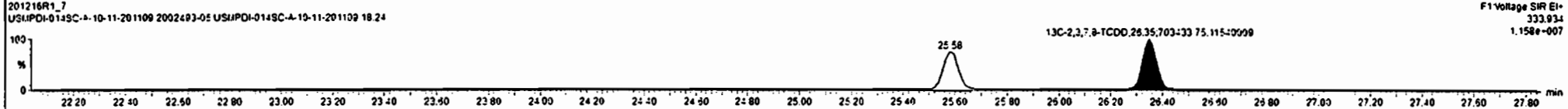
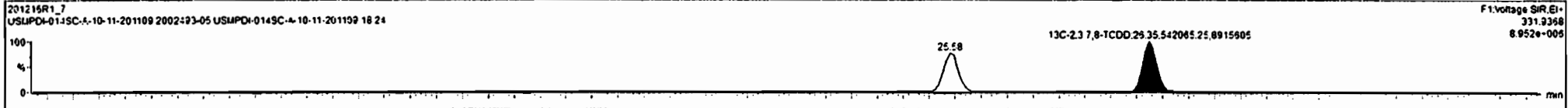
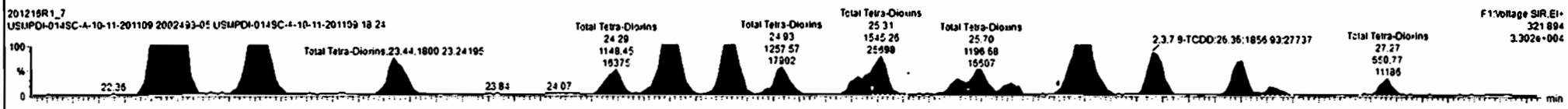
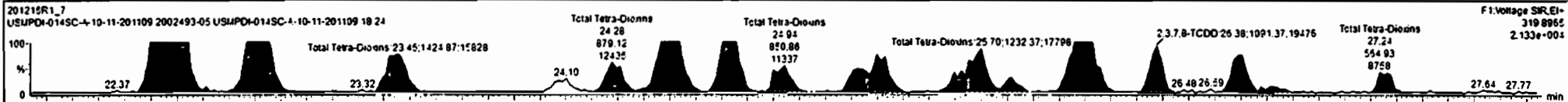


201216R1_7



Name	Reso	RA	n/y	RRF	wt/vol	RT	QRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.0005	10.005			13.1		0.0322	14.2

Name	RT1	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.58	1.502e2	2.002e2	0.75	NO	5.7048	5.7048
2 Total Tetra-Dioxins	22.92	3.772e2	5.187e2	0.73	NO	1.4574	1.4574
3 Total Tetra-Dioxins	23.45	1.425e2	1.800e2	0.78	NO	0.52478	0.52478
4 Total Tetra-Dioxins	24.28	8.781e2	1.148e2	0.77	NO	0.32992	0.32992
5 Total Tetra-Dioxins	24.50	3.252e2	4.697e2	0.78	NO	1.1958	1.1958
6 Total Tetra-Dioxins	24.74	2.362e2	3.108e2	0.76	NO	0.88964	0.88964
7 Total Tetra-Dioxins	24.94	8.509e2	1.258e2	0.68	NO	0.34308	0.34308
8 Total Tetra-Dioxins	25.23	7.872e2	9.166e2	0.86	NO	0.27755	0.27755
9 Total Tetra-Dioxins	25.30	1.134e2	1.545e2	0.73	NO	0.42593	0.42593
10 Total Tetra-Dioxins	25.82	4.513e2	6.075e2	0.51	NO	0.17814	0.17814
11 Total Tetra-Dioxins	25.70	1.232e2	1.197e2	1.53	YES	0.34486	0.00000
12 Total Tetra-Dioxins	25.82	3.738e2	5.315e2	0.70	NO	0.14727	0.14727
13 Total Tetra-Dioxins	26.10	3.282e2	4.694e2	0.72	NO	1.3106	1.3106
14 2,3,7,8-TCDD	26.38	1.691e2	1.857e2	0.59	YES	0.40822	0.00200
15 Total Tetra-Dioxins	26.89	1.657e2	1.439e2	0.73	NO	0.40818	0.40818
16 Total Tetra-Dioxins	26.82	2.276e2	3.185e2	0.72	NO	0.086531	0.086531
17 Total Tetra-Dioxins	27.24	5.648e2	5.588e2	0.87	NO	0.19782	0.19782

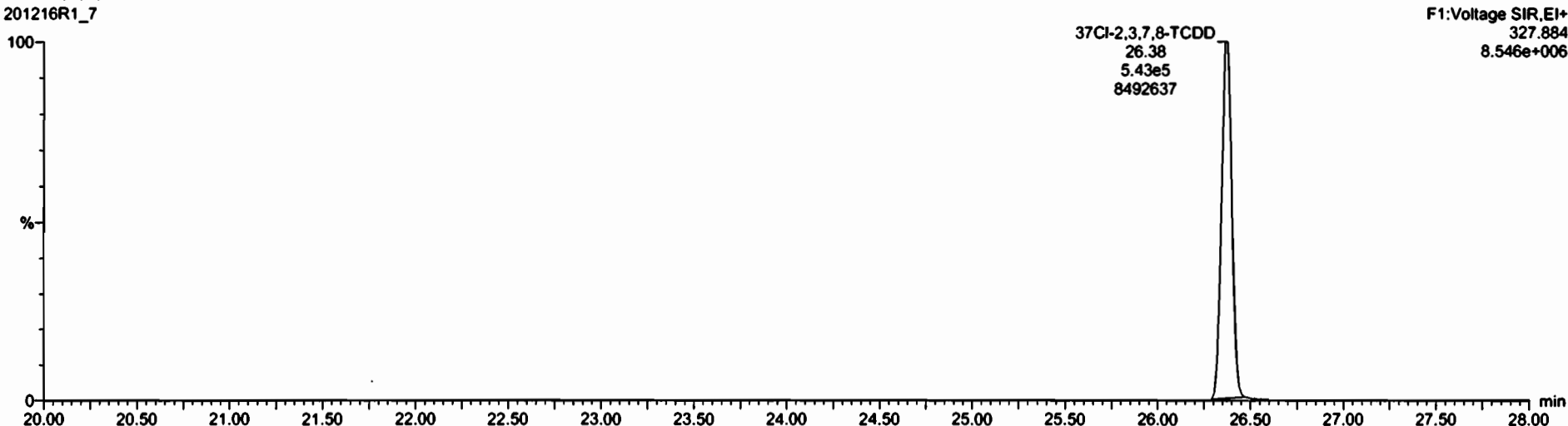


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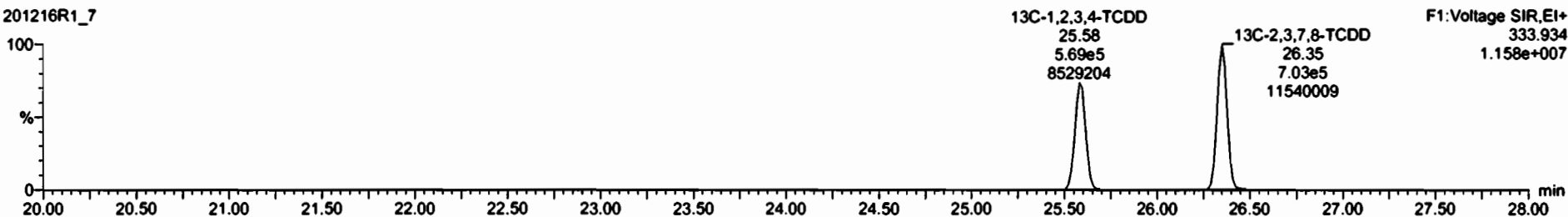
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201216R1_7



13C-1,2,3,4-TCDD
201216R1_7



201216R1_7



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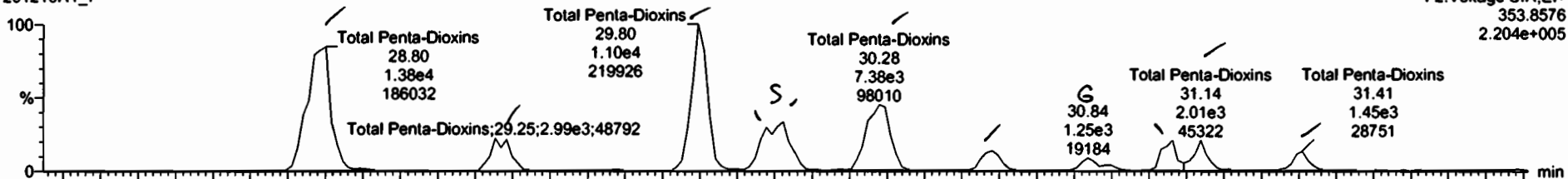
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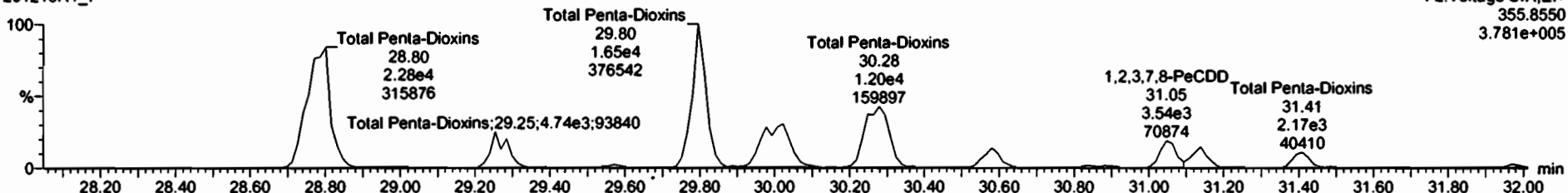
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1,2,3,7,8-PeCDD

201216R1_7



201216R1_7

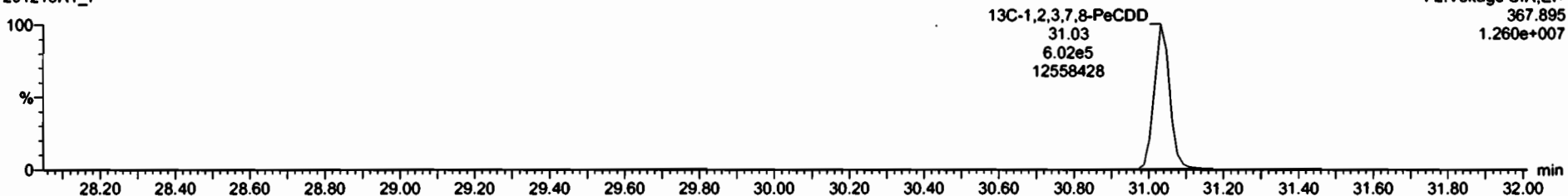


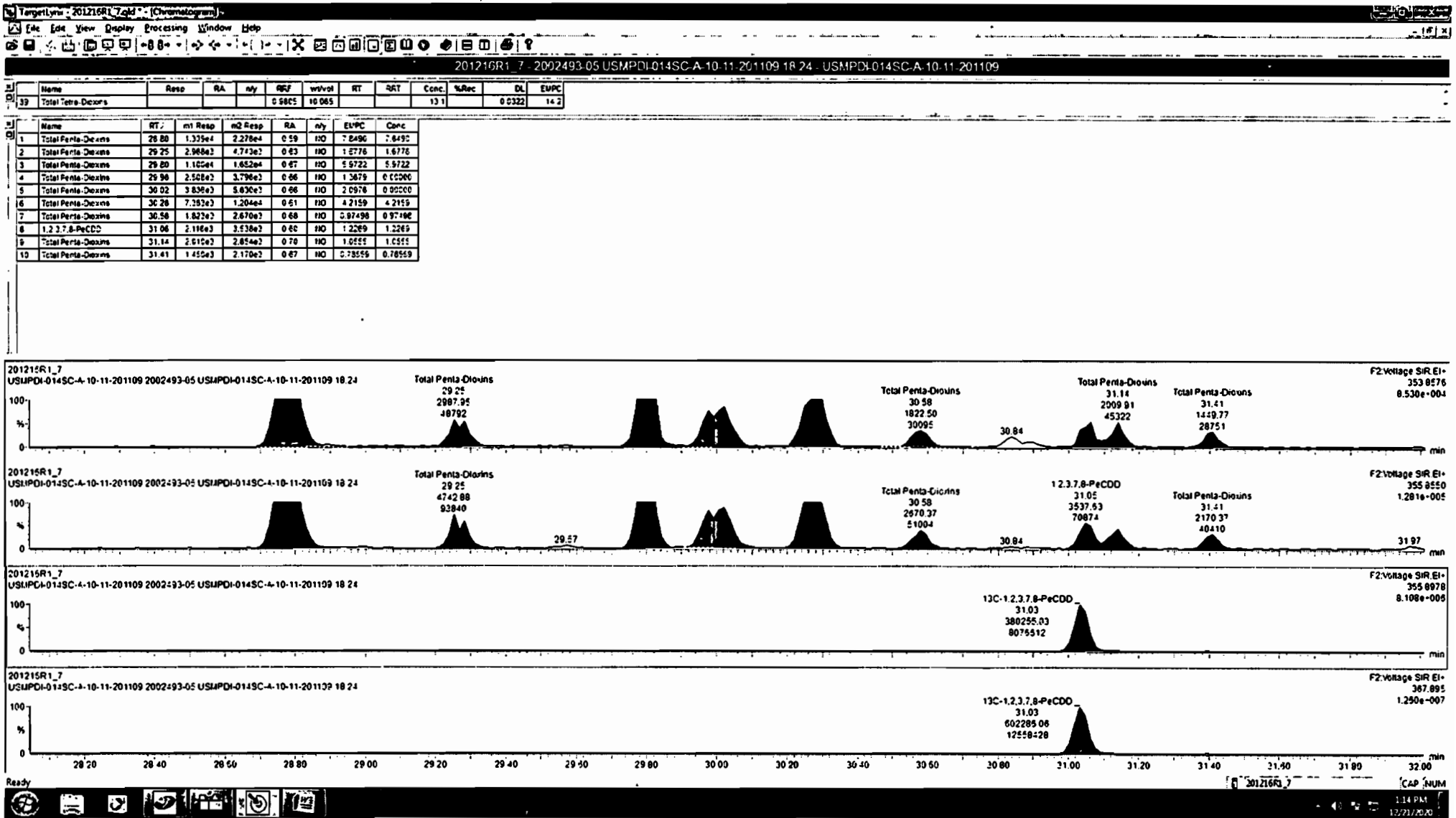
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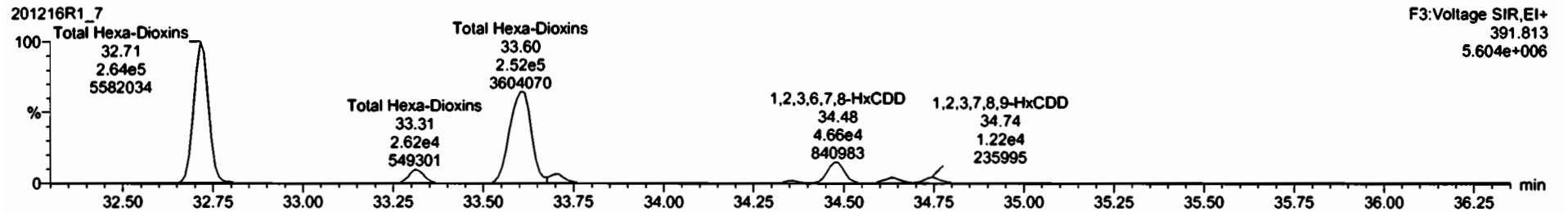
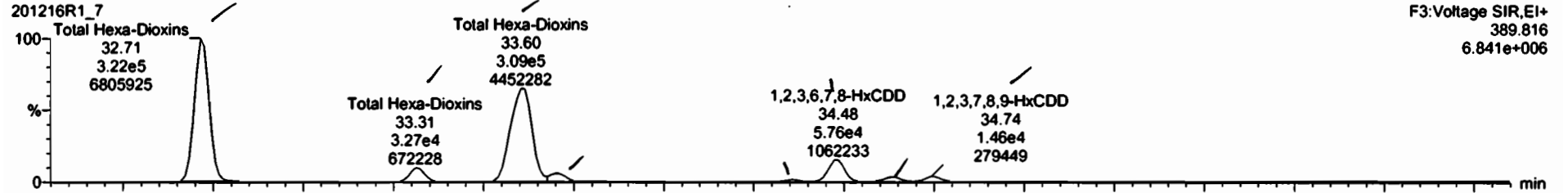


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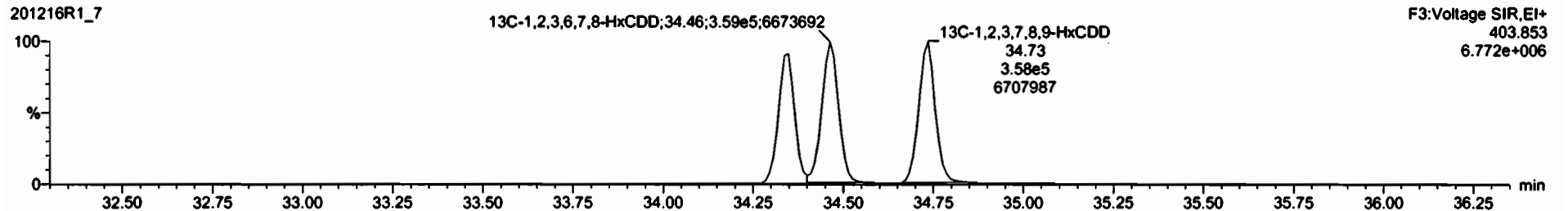
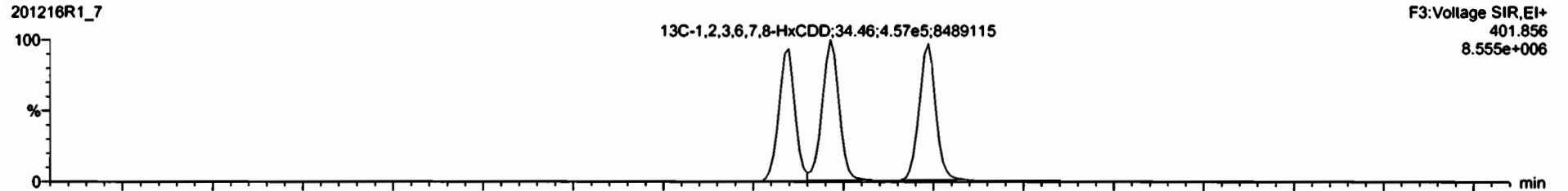
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1,2,3,4,7,8-HxCDD



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



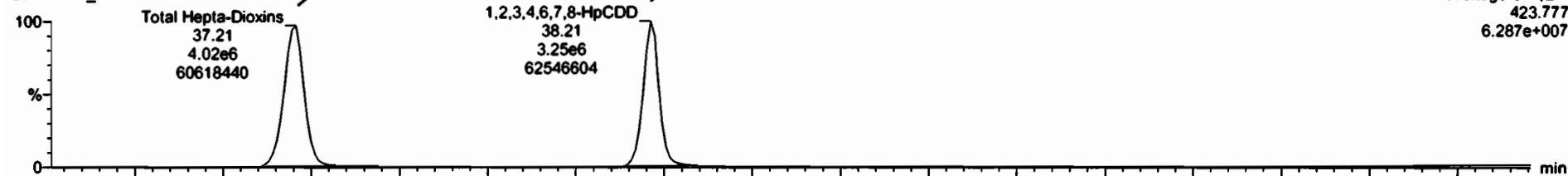
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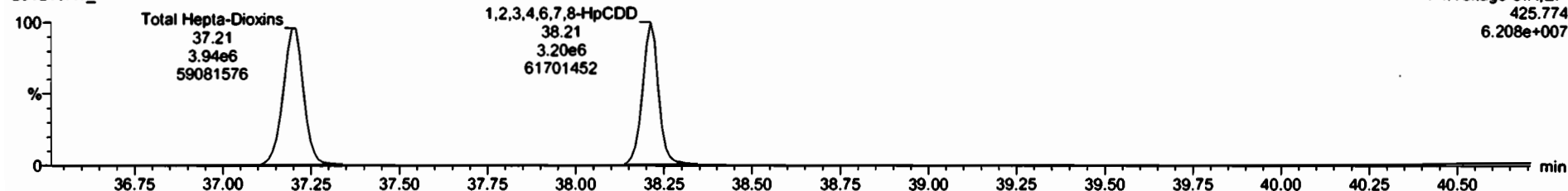
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1,2,3,4,6,7,8-HpCDD

201216R1_7

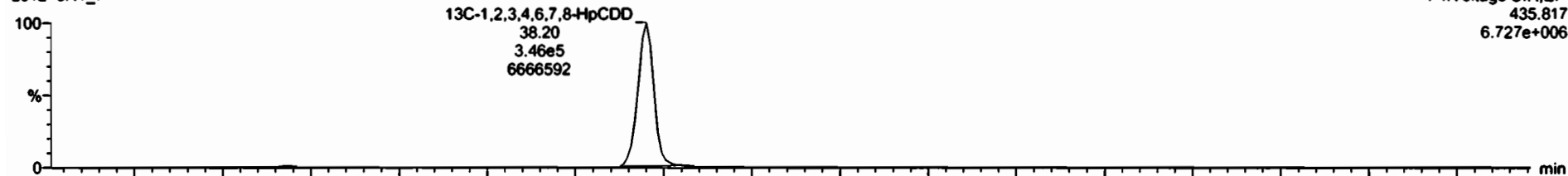


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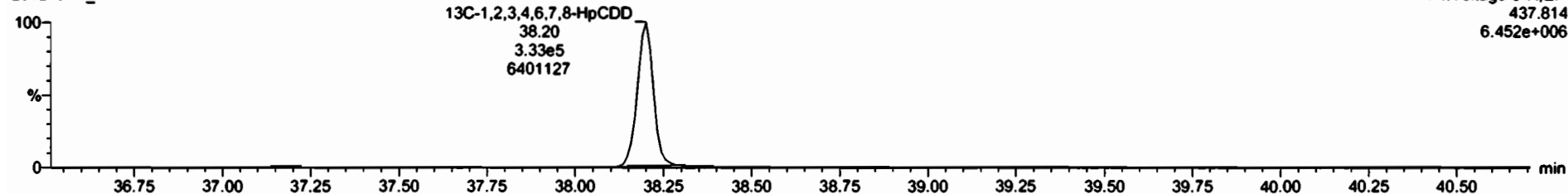


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201216R1_7



201216R1_7

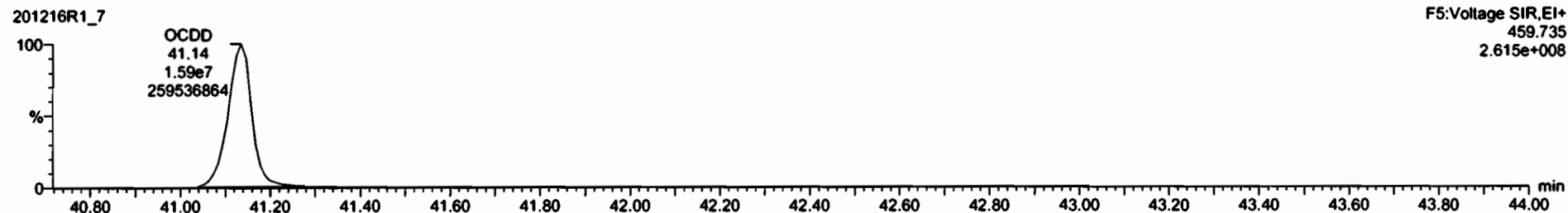


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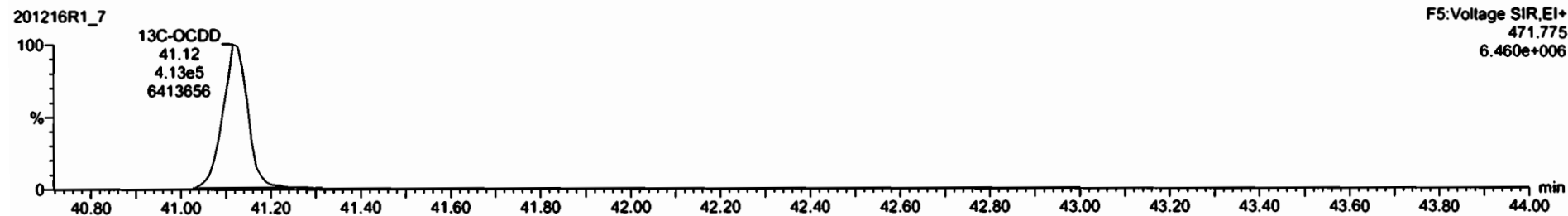
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OCDD



13C-OCDD



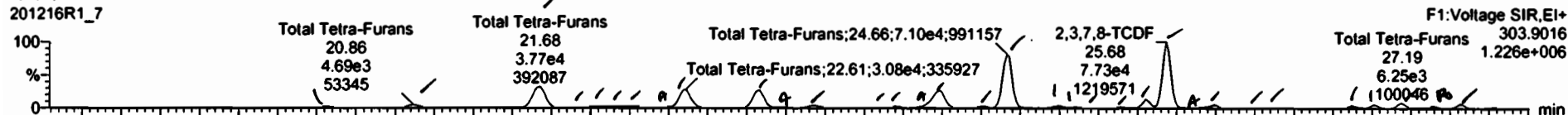
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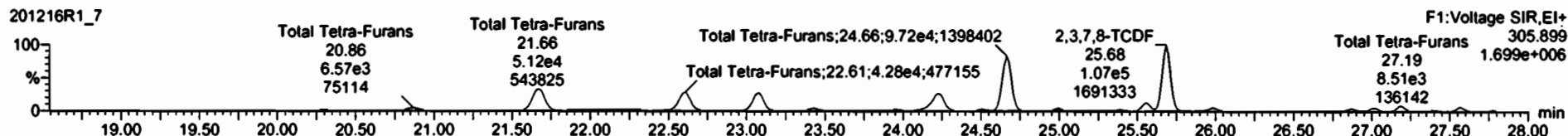
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2,3,7,8-TCDF

201216R1_7

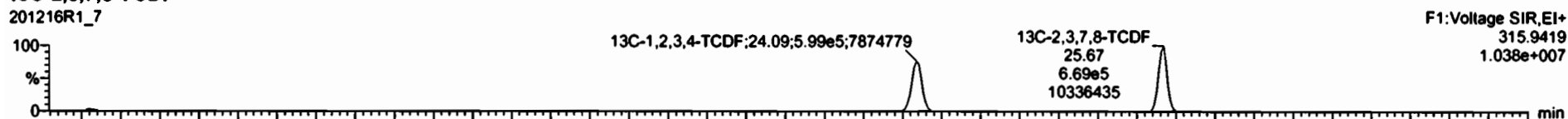


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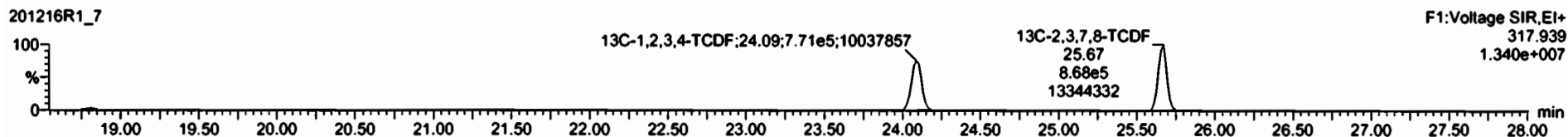


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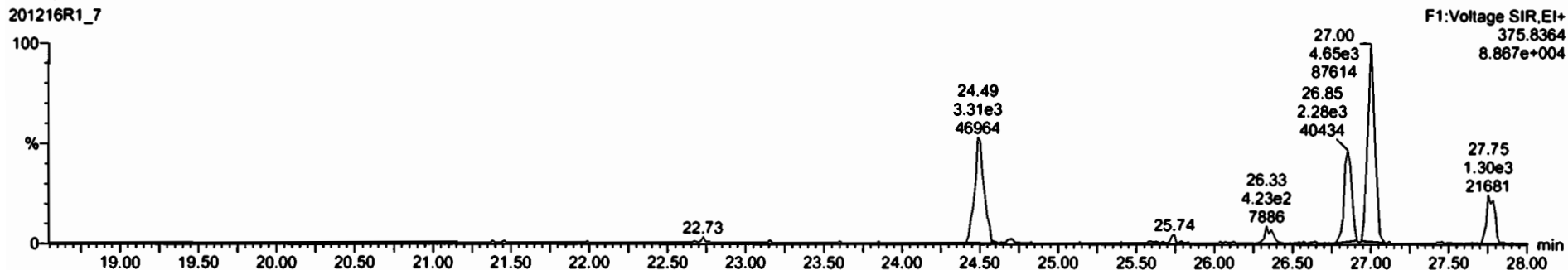


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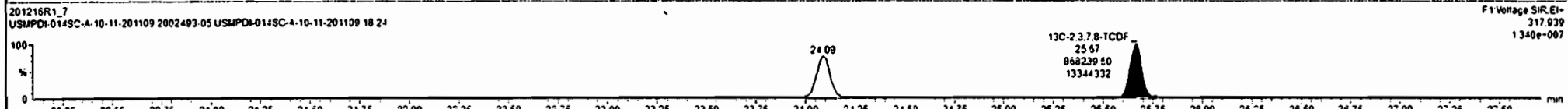
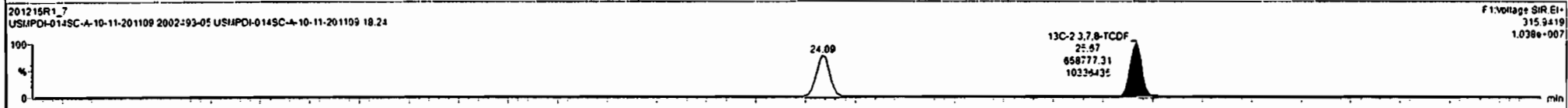
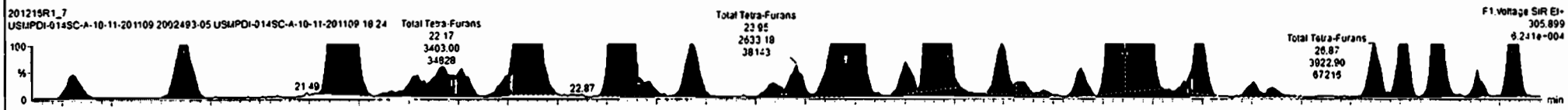
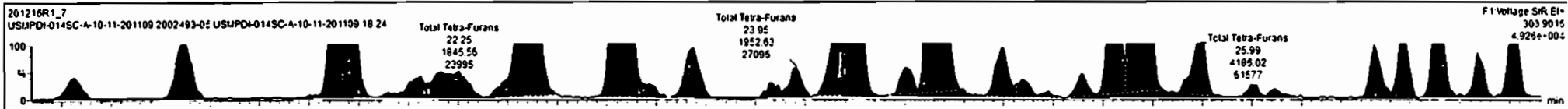
DPE1

201216R1_7



Name	Reso	RA	n/y	RRF	wt% of	RT	SQT	Conc.	%Rec	DL	EMPC
#3 Total Tetra-Furans				0.6480	10.065			112		0.100	125

Name	RT	m1 Reso	m2 Reso	RA	n/y	EMPC	Conc
18 Total Tetra-Furans	24.99	7.315e4	9.900e4	0.73	NO	26.099	28.699
19 Total Tetra-Furans	24.99	3.215e3	4.363e3	0.73	NO	1.1586	1.1586
20 Total Tetra-Furans	25.99	1.244e3	1.429e3	0.87	NO	0.40744	0.40744
21 Total Tetra-Furans	25.23	3.320e2	4.484e2	0.74	NO	0.11911	0.11911
22 Total Tetra-Furans	25.39	1.435e3	2.159e3	0.66	NO	0.54721	0.54721
23 Total Tetra-Furans	25.55	1.628e4	1.420e4	0.72	NO	3.7314	3.7314
24 2,3,7,8-TCDF	25.98	7.859e4	1.080e5	0.72	NO	28.566	28.566
25 Total Tetra-Furans	25.93	8.622e2	1.177e3	0.73	NO	0.31090	0.31090
26 Total Tetra-Furans	25.99	4.104e3	5.748e3	0.73	NO	1.5146	1.5146
27 Total Tetra-Furans	26.25	7.897e2	1.154e3	0.68	NO	0.29827	0.29827
28 Total Tetra-Furans	26.36	5.455e2	8.228e2	0.66	NO	0.25061	0.25061
29 Total Tetra-Furans	26.27	3.670e3	3.925e3	0.72	NO	1.0682	1.0682
30 Total Tetra-Furans	27.31	3.779e2	5.350e2	0.71	NO	1.3617	1.3617
31 Total Tetra-Furans	27.19	6.247e2	8.505e2	0.73	NO	2.2498	2.2498
32 Total Tetra-Furans	27.38	2.292e3	1.151e3	1.49	YES	0.45878	0.00200
33 Total Tetra-Furans	27.56	4.553e3	6.452e3	0.71	NO	1.6777	1.6777



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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

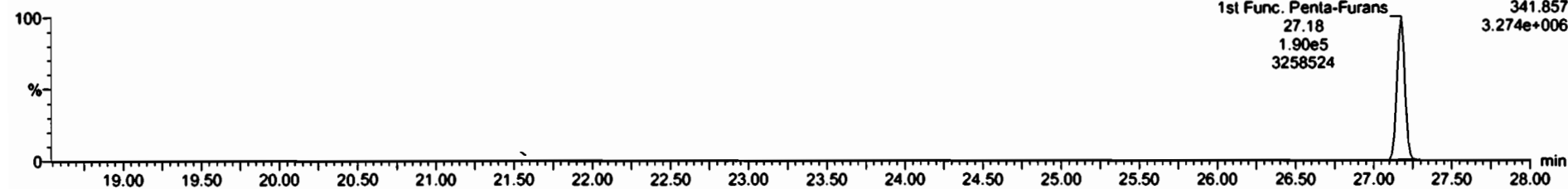
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1st Func. Penta-Furans

201216R1_7

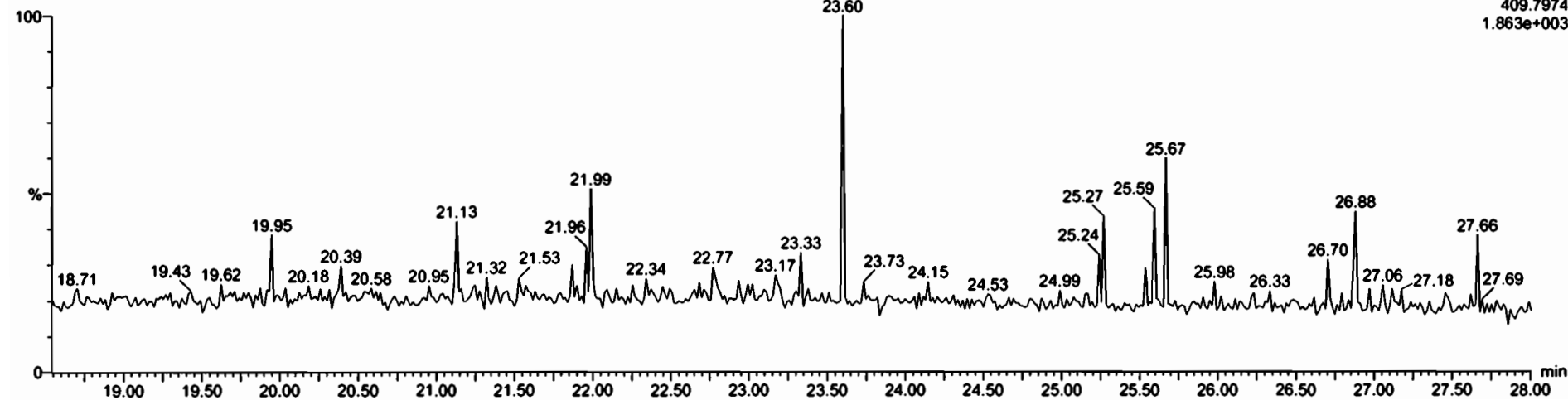


201216R1_7



DPE6

201216R1_7



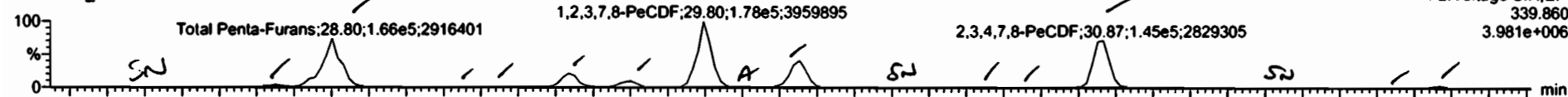
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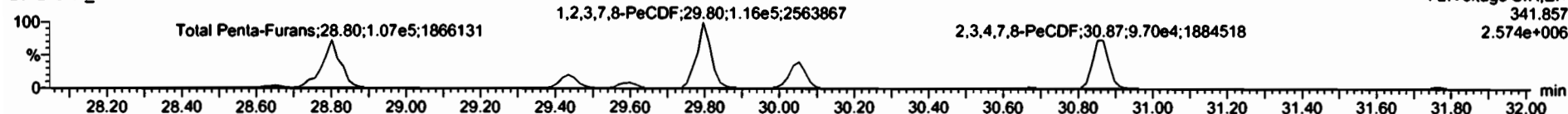
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1,2,3,7,8-PeCDF

201216R1_7

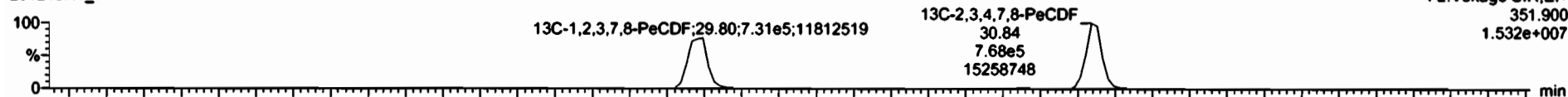


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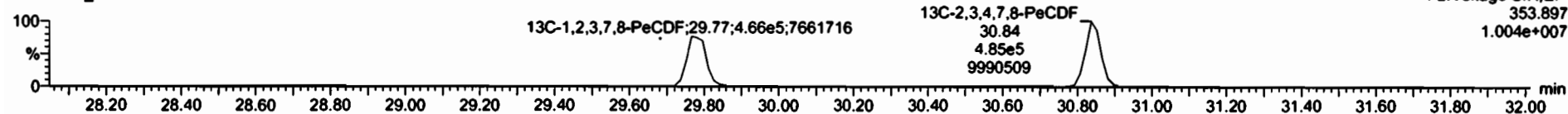


13C-1,2,3,7,8-PeCDF

201216R1_7

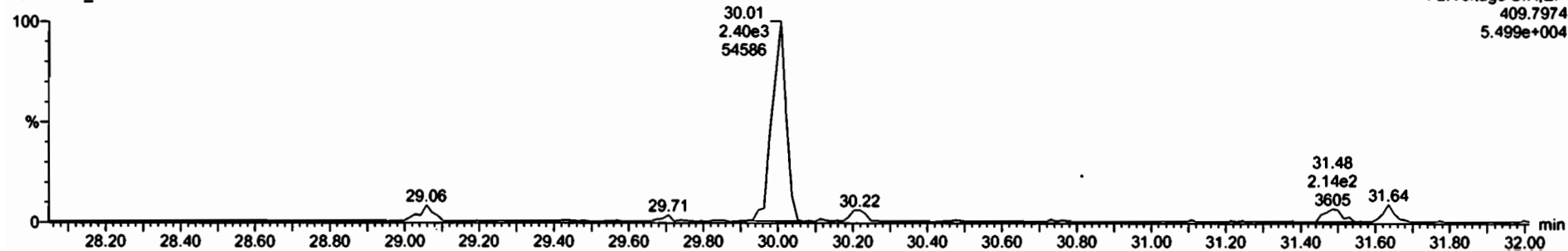


201216R1_7



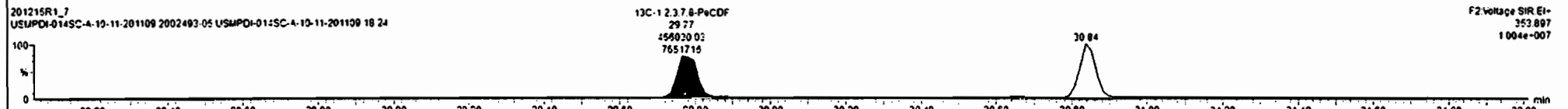
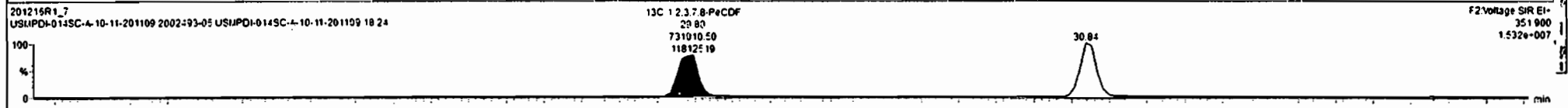
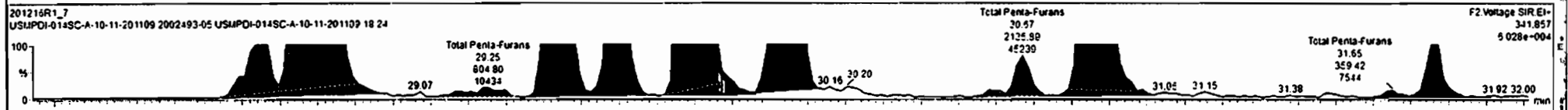
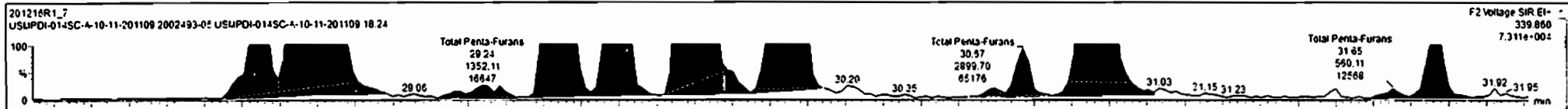
DPE2

201216R1_7



RT	Area	RA	nly	RF	wt%vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			8.9597	18.065					C.106	180

RT	Area	RA	nly	RF	wt%vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	Total Penta-Furans	28.85	8.254e2	5.328e3	1.55	NO	2.2958	2.2658			
2	Total Penta-Furans	28.80	1.684e5	1.886e5	1.55	NO	46.820	46.820			
3	Total Penta-Furans	29.18	4.215e2	2.594e2	1.63	NO	0.11515	0.11515			
4	Total Penta-Furans	29.24	1.252e3	8.048e2	1.66	NO	0.36456	0.36456			
5	Total Penta-Furans	29.43	4.275e4	2.741e4	1.56	NO	11.851	11.851			
6	Total Penta-Furans	29.50	1.947e4	1.224e4	1.59	NO	5.3593	5.3593			
7	1,2,3,7,8-PeCDF	29.80	1.758e5	1.196e5	1.54	NO	51.267	51.267			
8	Total Penta-Furans	29.87	1.527e3	8.427e2	1.61	NO	0.41838	0.41838			
9	Total Penta-Furans	30.25	8.306e4	5.176e4	1.59	NO	22.618	22.618			
10	Total Penta-Furans	30.80	5.376e2	3.522e2	1.53	NO	0.15340	0.15340			
11	Total Penta-Furans	30.67	2.905e3	2.136e3	1.36	NO	0.85111	0.85111			
12	2,3,4,7,8-PeCDF	30.87	1.454e5	9.844e4	1.51	NO	36.676	36.676			
13	Total Penta-Furans	31.05	5.801e2	3.594e2	1.56	NO	0.15542	0.15542			
14	Total Penta-Furans	31.77	4.956e3	3.184e3	1.56	NO	1.3774	1.3774			

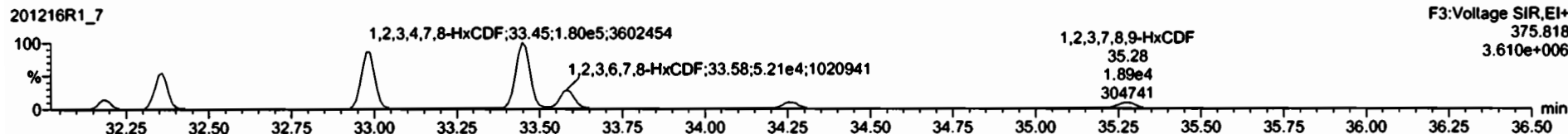
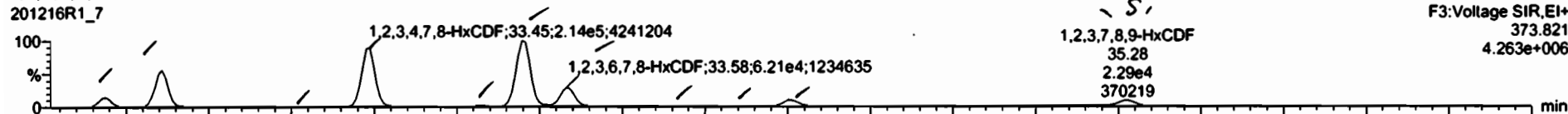


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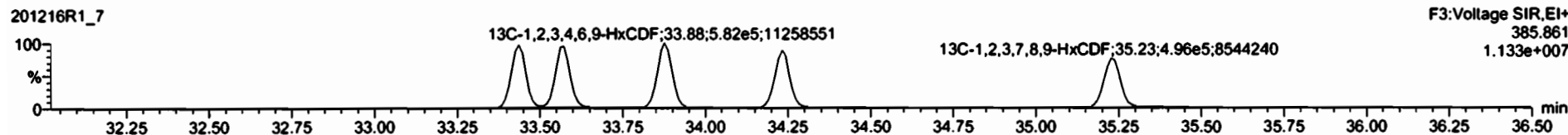
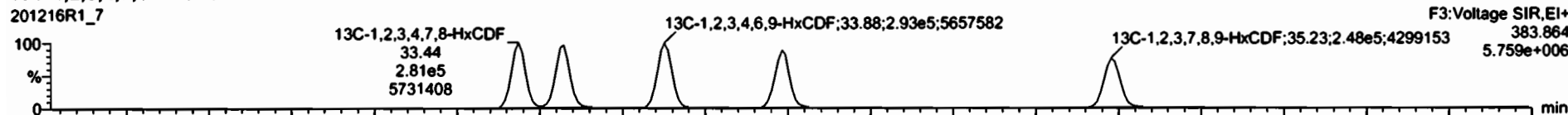
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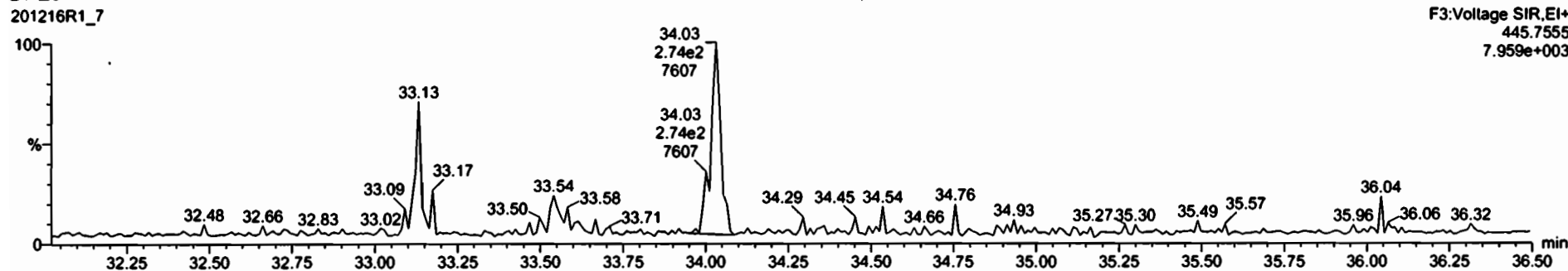
1,2,3,4,7,8-HxCDF

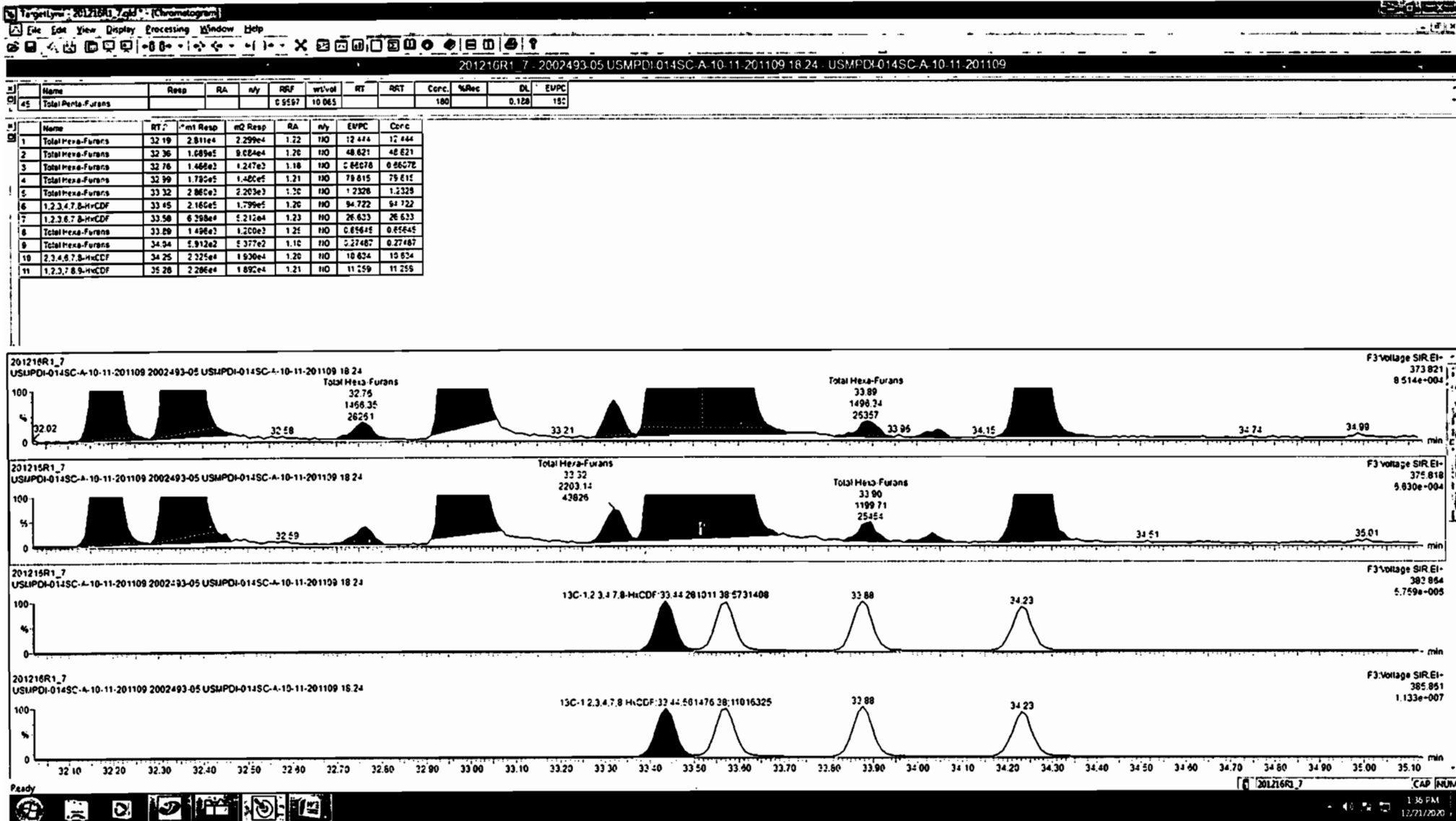


13C-1,2,3,4,7,8-HxCDF



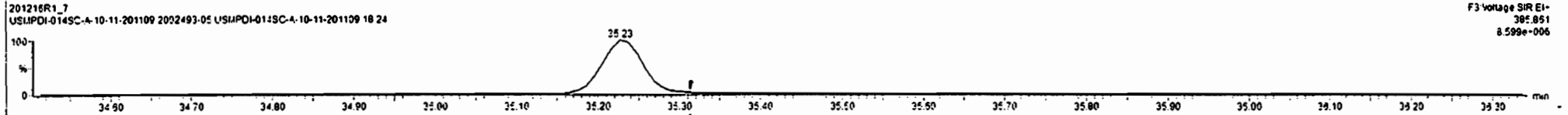
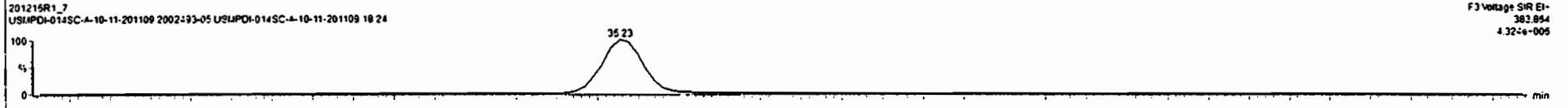
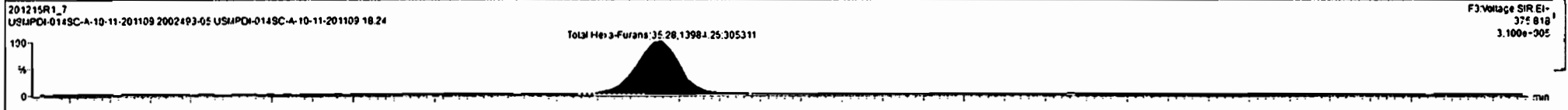
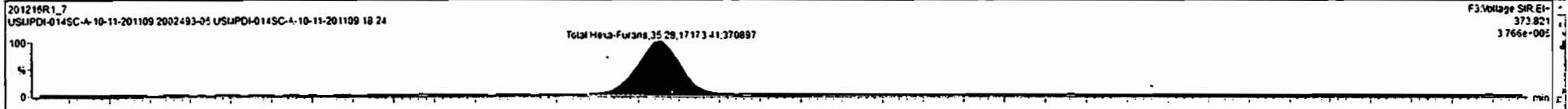
DPE3





Name	Resp	RA	nY	RF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.9597	10.065			180	0.188	180	

Name	RT1	m1 Resp	m2 Resp	RA	nY	EMPC	Conc	
1	Total Hexa-Furans	32.19	2.911e4	2.259e4	1.22	HO	12.444	12.444
2	Total Hexa-Furans	32.36	1.685e5	9.024e4	1.20	HO	48.621	48.621
3	Total Hexa-Furans	32.78	1.466e2	1.277e2	1.18	HO	0.66878	0.66878
4	Total Hexa-Furans	32.99	1.782e5	1.405e5	1.21	HO	79.615	79.615
5	Total Hexa-Furans	33.32	2.862e2	2.203e2	1.20	HO	1.2326	1.2326
6	1,2,3,4,7,8-HxCDF	33.45	2.165e5	1.799e5	1.26	HO	94.722	94.722
7	1,2,3,6,7,8-HxCDF	33.58	6.298e4	5.212e4	1.23	HO	26.633	26.633
8	Total Hexa-Furans	33.29	1.495e2	1.200e2	1.25	HO	0.65645	0.65645
9	Total Hexa-Furans	34.04	5.912e2	5.377e2	1.16	HO	0.27487	0.27487
10	2,3,4,6,7,8-HxCDF	34.25	2.325e4	1.930e4	1.20	HO	10.634	10.634
11	1,2,3,7,8,9-HxCDF	35.26	5.629e2	5.050e2	1.11	HO	2.8724	2.8724
12	Total Hexa-Furans	35.28	1.717e4	1.393e4	1.23	HO	7.5884	7.5884



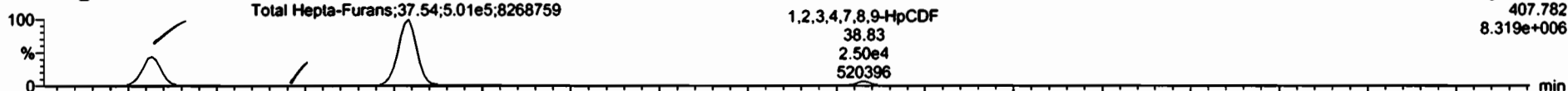
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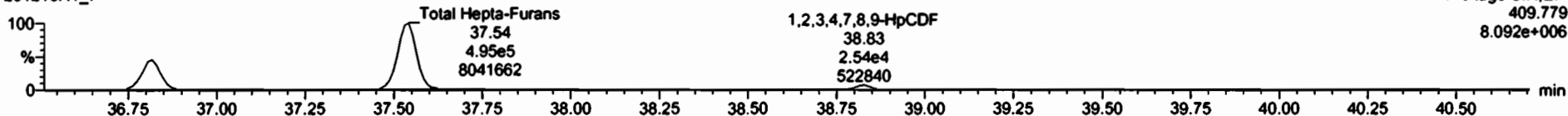
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1,2,3,4,6,7,8-HpCDF

201216R1_7

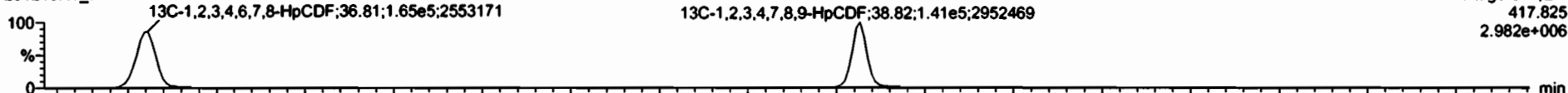


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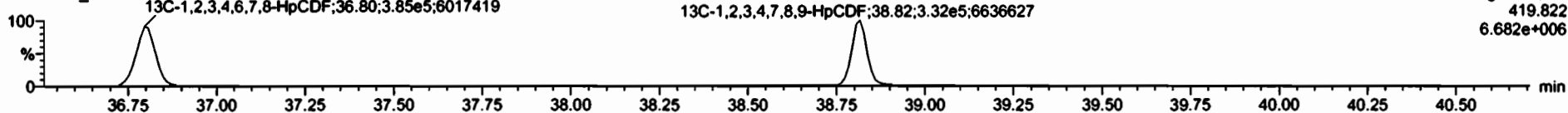


13C-1,2,3,4,6,7,8-HpCDF

201216R1_7

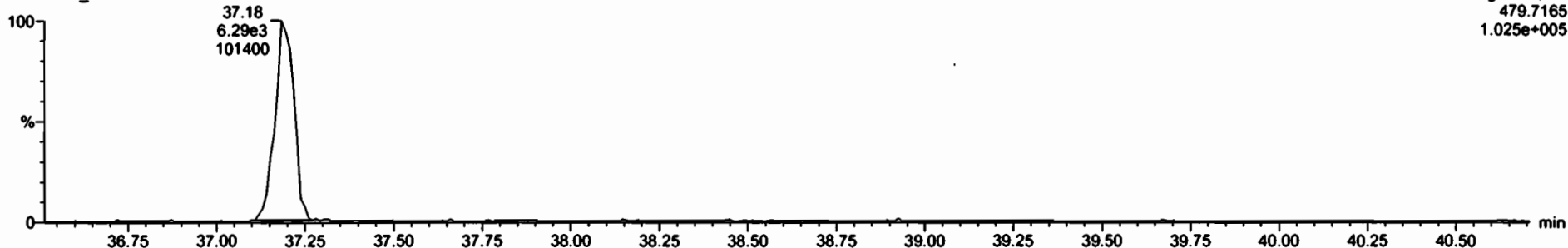


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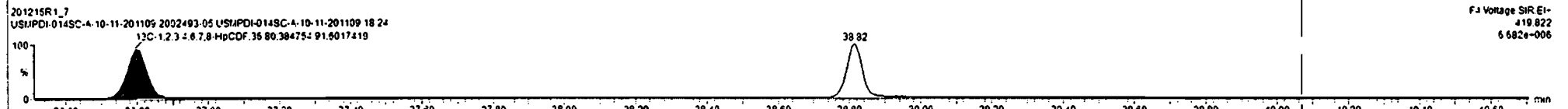
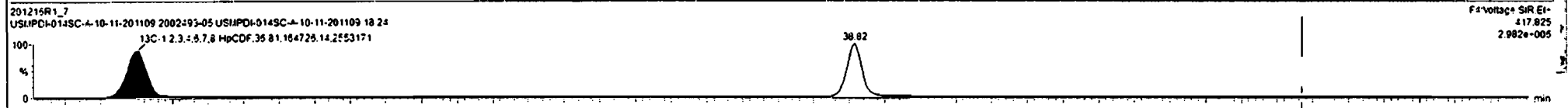
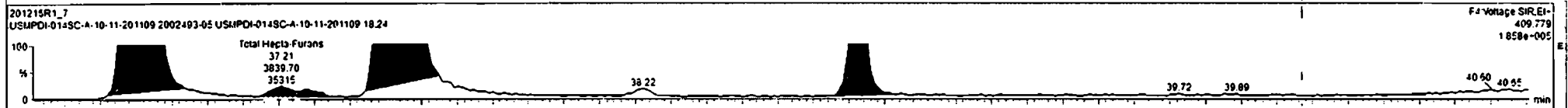
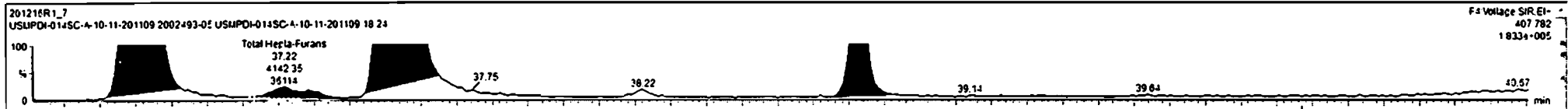
DPE4

201216R1_7



Name	Resp	RA	n/y	RRF	w/w	RT	RRT	Conc.	%Rec	DL	EMPC
47	Total Hepta-Furans			1.6482	18.085			547		0.475	547

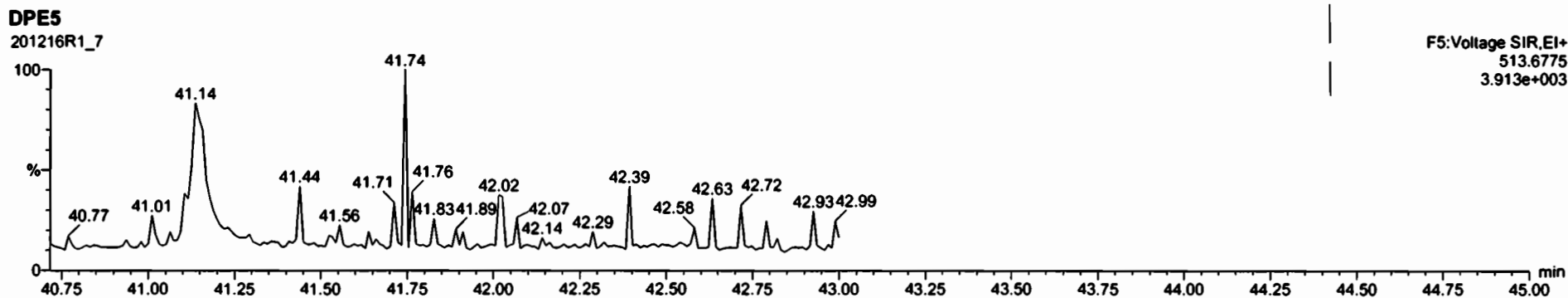
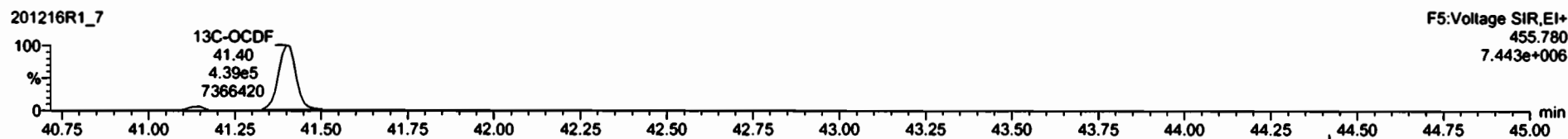
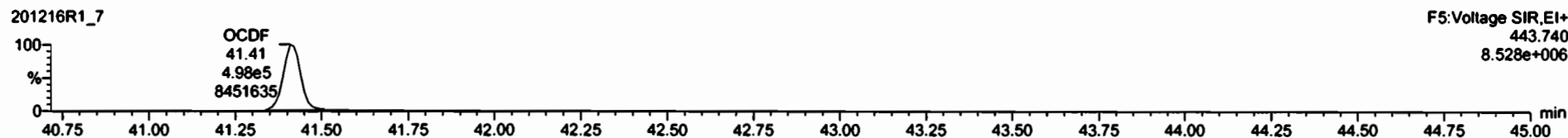
Name	RT, μ s	mt Resp	rQ Resp	RA	n/y	EMPC	Conc.
1	1.2.3.4.6.7.8-HpCDF	36.82	2.285e5	2.270e5	1.00	158.85	158.85
2	Total Hepta-Furans	37.22	4.142e3	3.840e3	1.38	2.9550	2.9550
3	Total Hepta-Furans	37.54	5.612e5	4.954e5	1.01	368.93	368.93
4	1.2.3.4.7.8.9-HpCDF	38.83	2.557e4	2.577e4	0.98	18.009	18.009



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Name: 201216R1_7, Date: 16-Dec-2020, Time: 13:00:35, ID: 2002493-05 USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

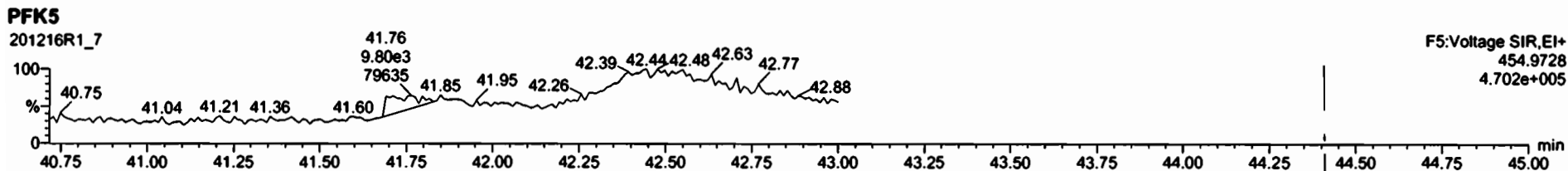
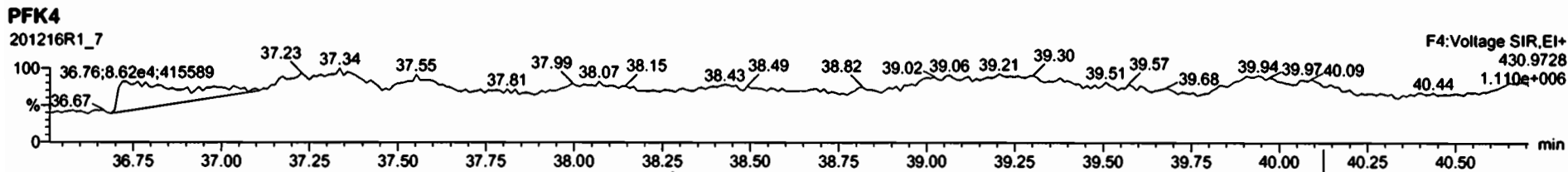
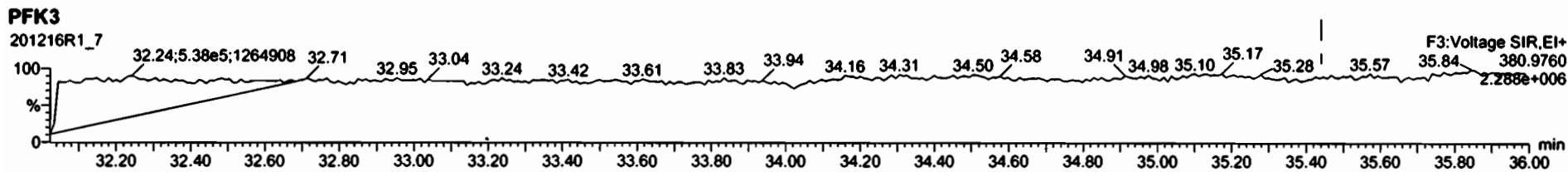
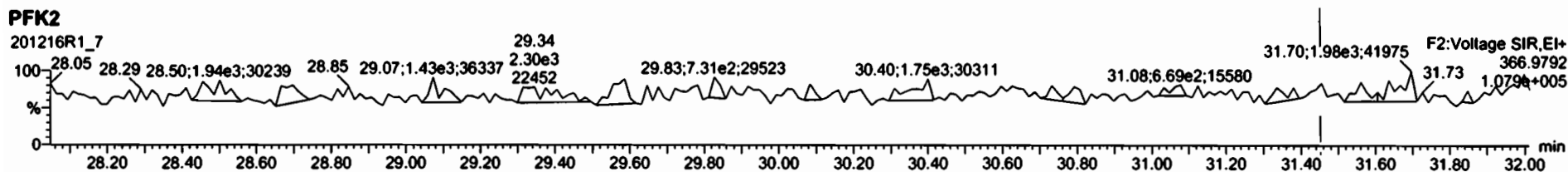
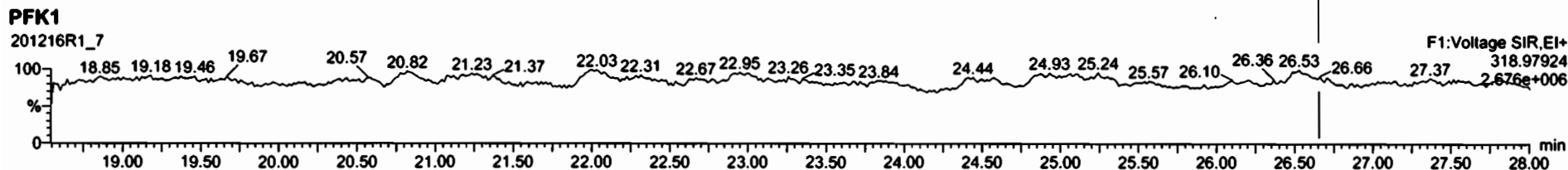


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GPB -12/21/2020

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min added

Name: 201217R4_11, Date: 17-Dec-2020, Time: 21:55:59, ID: 2002493-05@10X USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	7 OCDD	3.40e6	0.89	NO	0.866	10.065	41.124	41.13	1.000	1.000	19015		11.2	19000
2	24 13C-OCDD	8.20e4	0.90	NO	0.496	10.065	41.167	41.12	1.216	1.214	286.39	72.1	2.69	
3	35 37Cl-2,3,7,8-TCDD	6.69e4			1.22	10.065	26.332	26.35	1.030	1.031	88.965	112	0.236	
4	36 13C-1,2,3,4-TCDD	1.23e5	0.77	NO	1.00	10.065	25.640	25.57	1.000	1.000	198.71	100	0.662	
5	37 13C-1,2,3,4-TCDF	1.84e5	0.76	NO	1.00	10.065	24.130	24.07	1.000	1.000	198.71	100	0.883	
6	38 13C-1,2,3,4,6,9-HxCDF	1.15e5	0.49	NO	1.00	10.065	33.920	33.87	1.000	1.000	198.71	100	1.31	

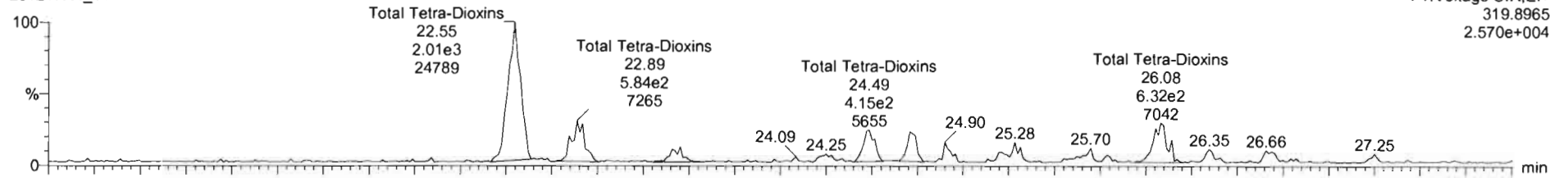
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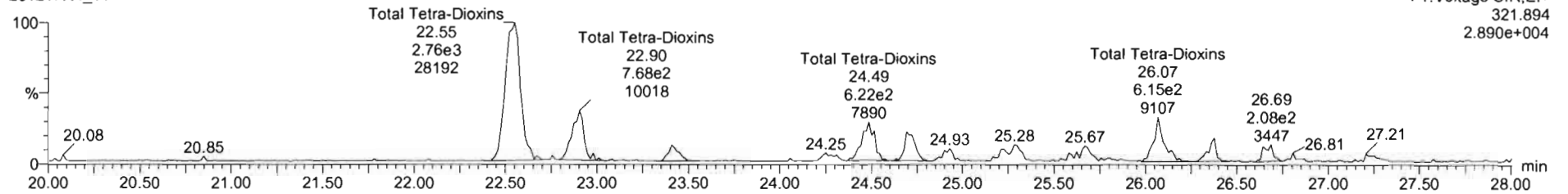
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2,3,7,8-TCDD

201217R4_11

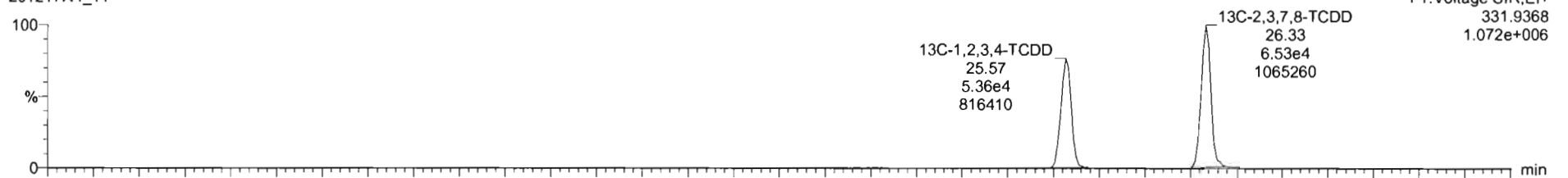


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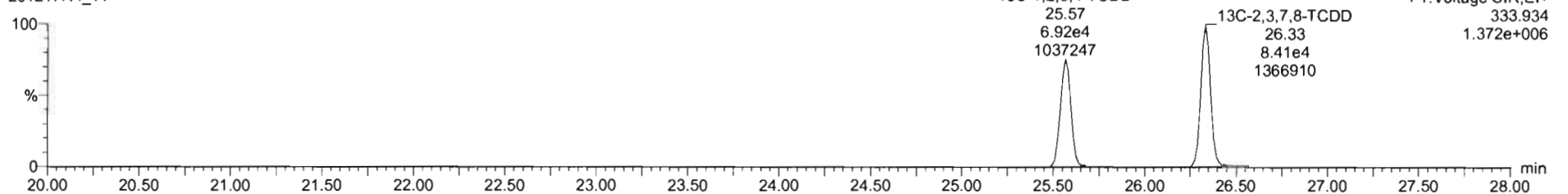


13C-2,3,7,8-TCDD

201217R4_11



201217R4_11



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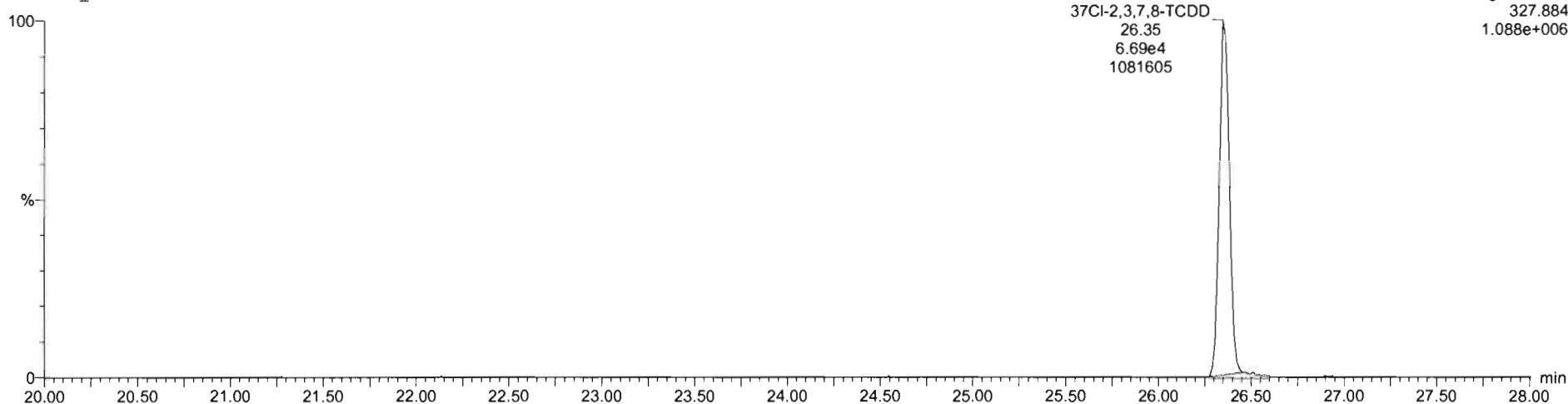
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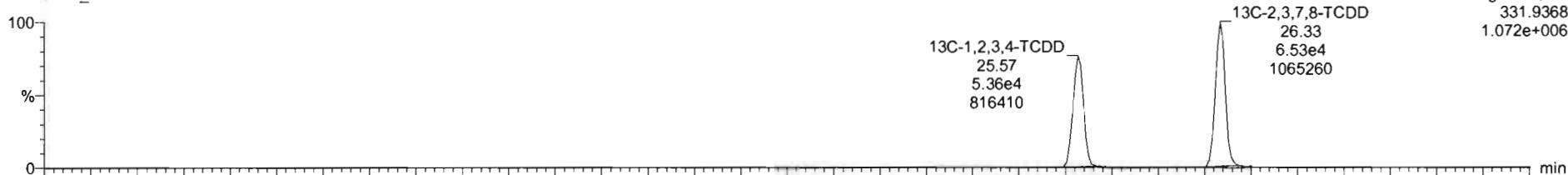
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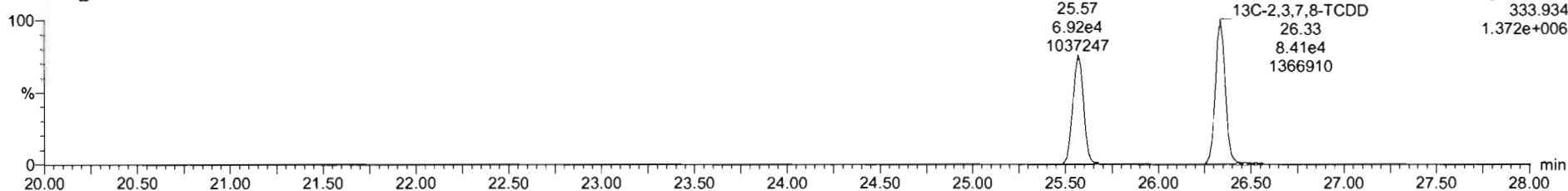


13C-1,2,3,4-TCDD

201217R4_11



201217R4_11

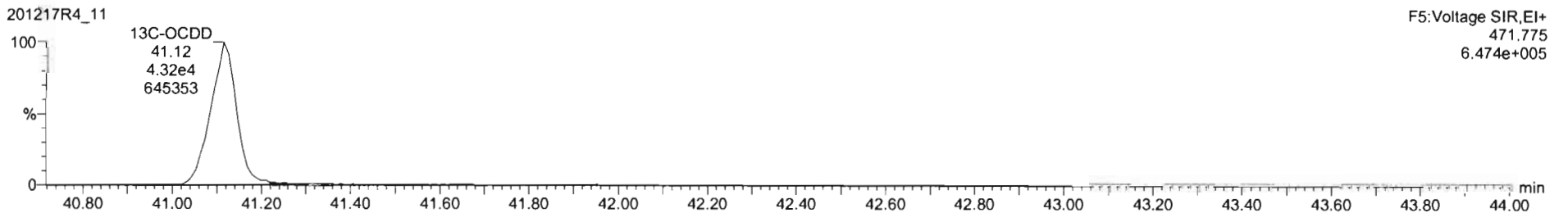
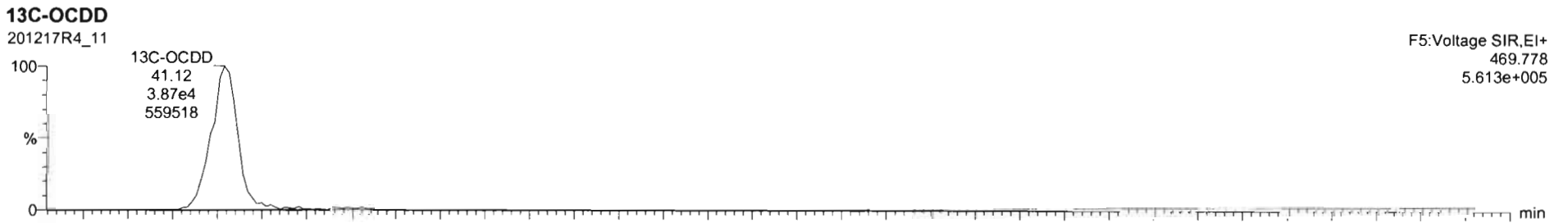
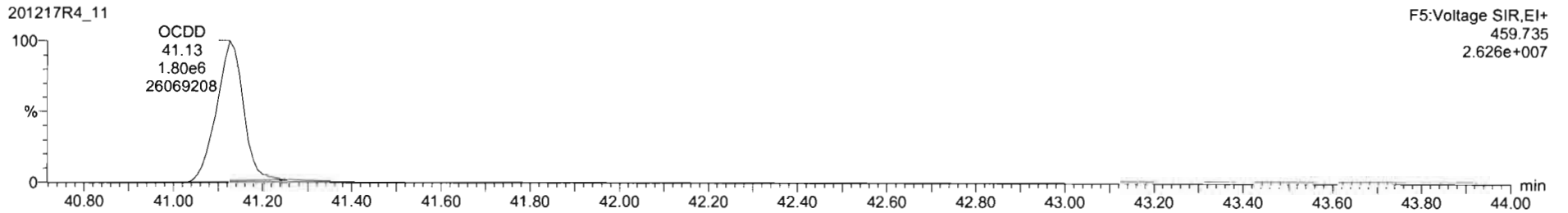
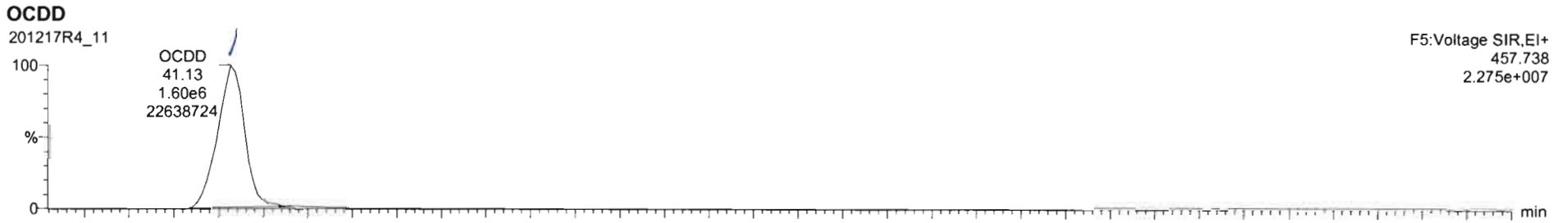


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Last Altered: Friday, December 18, 2020 7:11:37 AM Pacific Standard Time

Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

Name: 201217R4_11, Date: 17-Dec-2020, Time: 21:55:59, ID: 2002493-05@10X USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

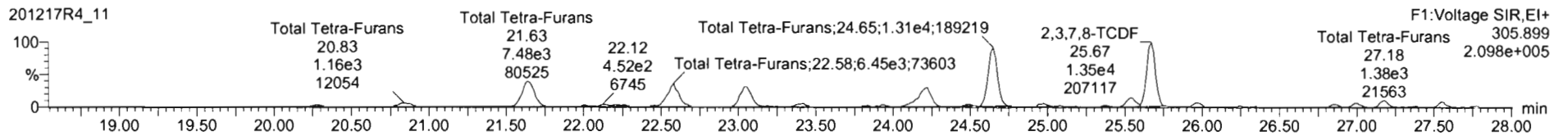
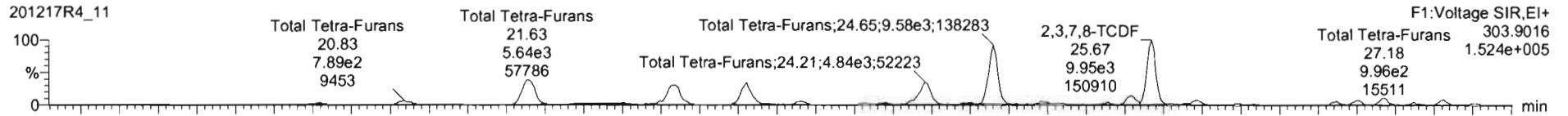


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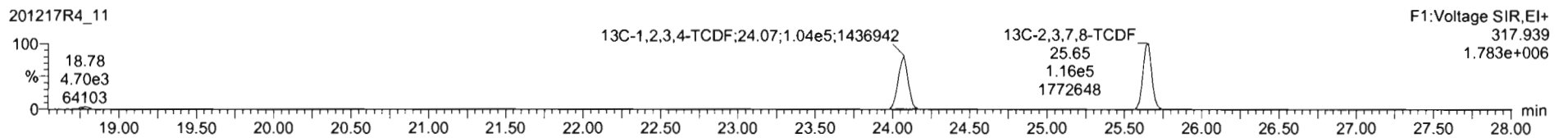
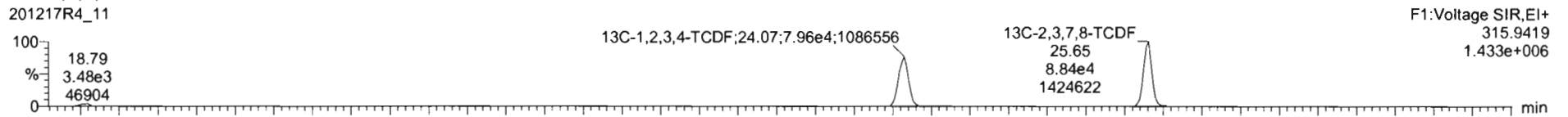
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Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

Name: 201217R4_11, Date: 17-Dec-2020, Time: 21:55:59, ID: 2002493-05@10X USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

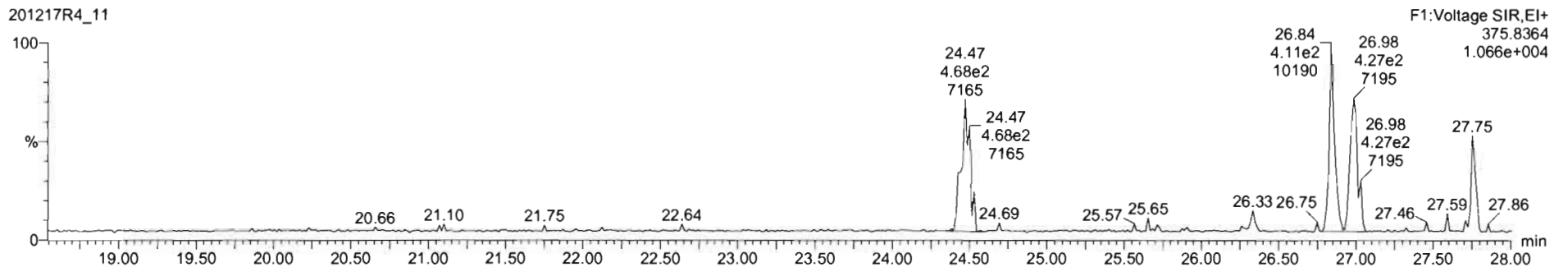
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

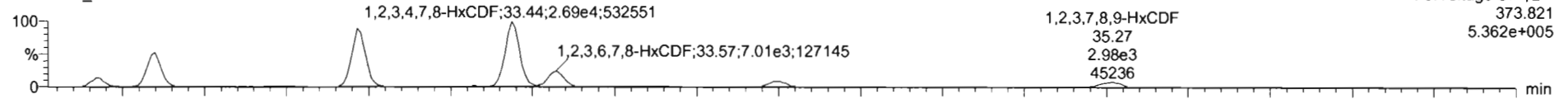
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Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

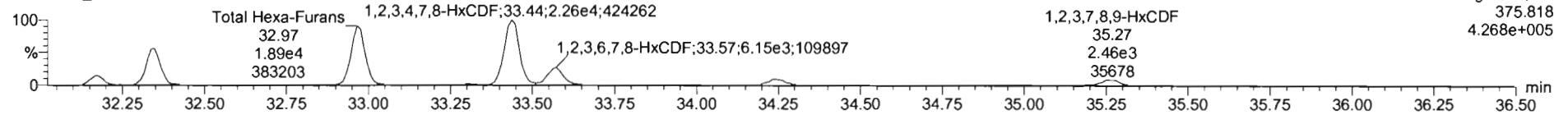
Name: 201217R4_11, Date: 17-Dec-2020, Time: 21:55:59, ID: 2002493-05@10X USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

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

201217R4_11

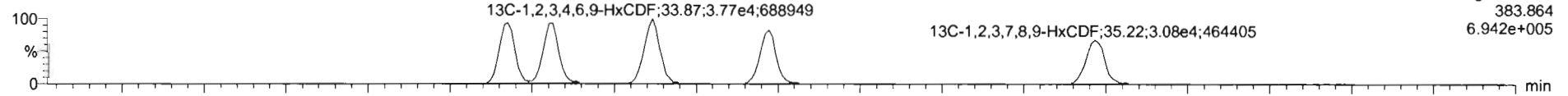


201217R4_11

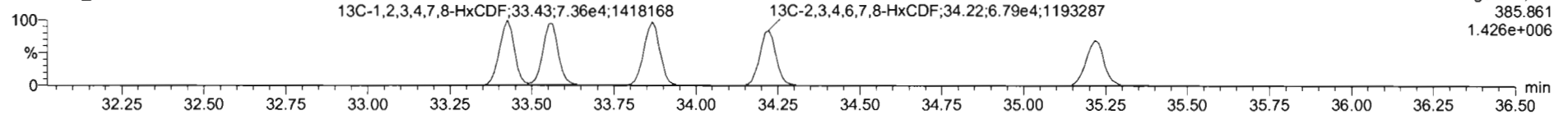


13C-1,2,3,4,7,8-HxCDF

201217R4_11

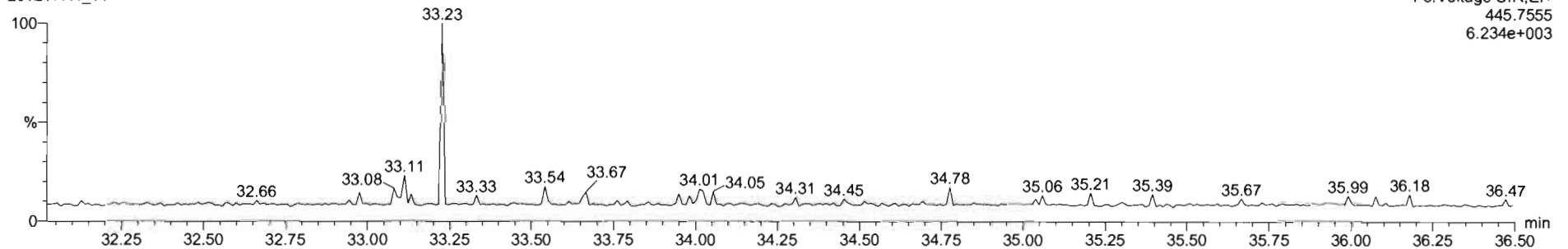


201217R4_11



DPE3

201217R4_11



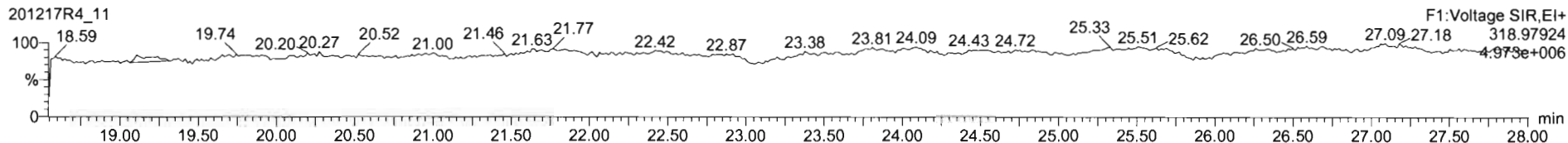
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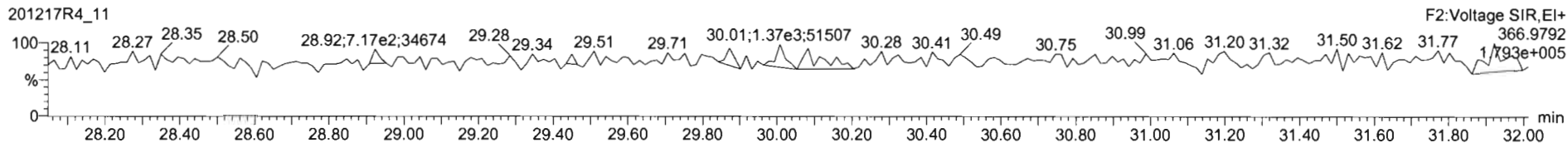
Printed: Friday, December 18, 2020 7:12:10 AM Pacific Standard Time

Name: 201217R4_11, Date: 17-Dec-2020, Time: 21:55:59, ID: 2002493-05@10X USMPDI-014SC-A-10-11-201109 18.24, Description: USMPDI-014SC-A-10-11-201109

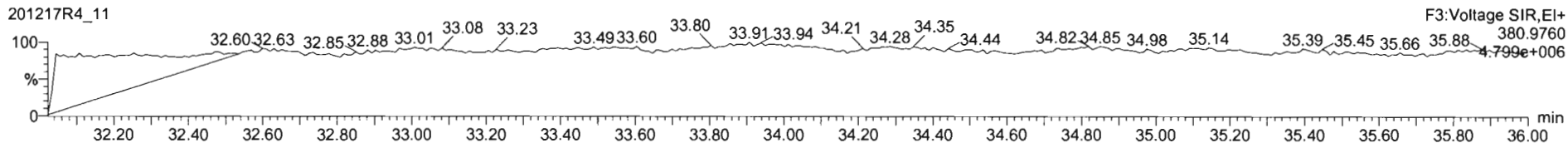
PFK1



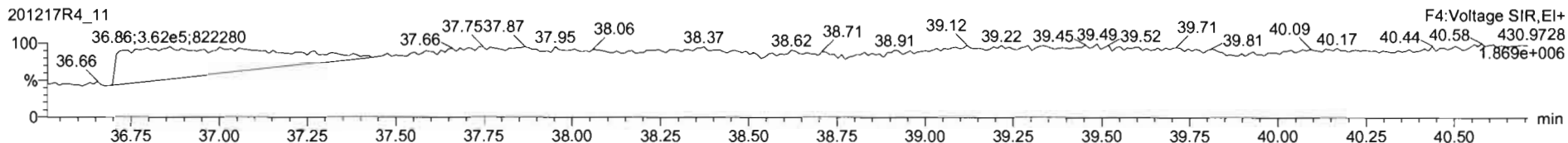
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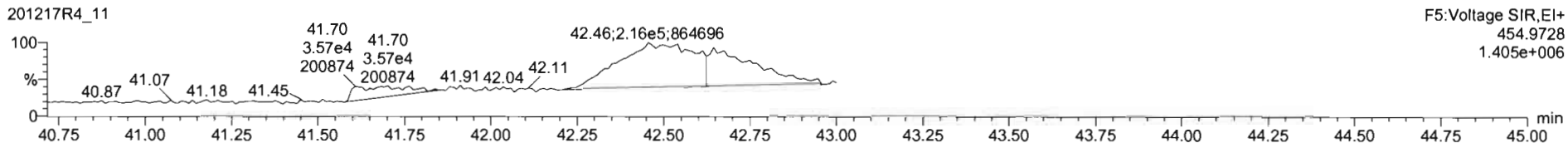
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_8.qld

Last Altered: Monday, December 28, 2020 14:15:14 Pacific Standard Time

Printed: Monday, December 28, 2020 14:15:59 Pacific Standard Time

GRB 12/28/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

** see dilution*

CT 12/29/2020

Name: 201216R1_8, Date: 16-Dec-2020, Time: 13:46:13, ID: 2002493-06 USMPDI-014SC-A-11-12-201109 18.26, Description: USMPDI-014SC-A-11-12-201109

#	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	3.15e3	0.66	NO	0.980	10.107	26.410	26.39	1.001	1.001	0.52344		0.0436	0.523
2	2 1,2,3,7,8-PeCDD	7.54e3	0.59	NO	0.932	10.107	31.094	31.08	1.001	1.000	1.6579		0.0883	1.66
3	3 1,2,3,4,7,8-HxCDD	5.88e3	1.17	NO	1.02	10.107	34.378	34.38	1.001	1.001	1.5690		0.298	1.57
4	4 1,2,3,6,7,8-HxCDD	6.50e4	1.22	NO	0.902	10.107	34.504	34.49	1.001	1.000	17.845		0.323	17.8
5	5 1,2,3,7,8,9-HxCDD	2.02e4	1.27	NO	0.954	10.107	34.755	34.77	1.000	1.001	5.2668		0.295	5.27
6	6 1,2,3,4,6,7,8-HpCDD	2.51e6	1.01	NO	0.918	10.107	38.211	38.22	1.000	1.001	782.36		1.29	782
7	7 OCDD	1.55e7	0.87	NO	0.866	10.107	41.134	41.14	1.000	1.000	6689.9	*	1.63	6690
8	8 2,3,7,8-TCDF	2.68e4	0.74	NO	0.848	10.107	25.687	25.71	1.000	1.001	4.2111		0.0839	4.21
9	9 1,2,3,7,8-PeCDF	2.28e4	1.55	NO	0.960	10.107	29.799	29.81	1.000	1.001	3.8046		0.0902	3.80
10	10 2,3,4,7,8-PeCDF	8.41e4	1.55	NO	1.07	10.107	30.874	30.88	1.001	1.001	13.590		0.0983	13.6
11	11 1,2,3,4,7,8-HxCDF	3.98e4	1.22	NO	0.986	10.107	33.467	33.47	1.000	1.000	9.8518		0.165	9.85
12	12 1,2,3,6,7,8-HxCDF	5.01e4	1.21	NO	1.04	10.107	33.603	33.60	1.001	1.001	11.727		0.161	11.7
13	13 2,3,4,6,7,8-HxCDF	3.66e4	1.25	NO	1.02	10.107	34.263	34.27	1.001	1.001	9.3437		0.190	9.34
14	14 1,2,3,7,8,9-HxCDF	2.12e3	1.06	NO	0.991	10.107	35.258	35.27	1.000	1.001	0.59737		0.217	0.597
15	15 1,2,3,4,6,7,8-HpCDF	8.83e5	1.01	NO	1.05	10.107	36.835	36.83	1.000	1.000	295.17		0.353	295
16	16 1,2,3,4,7,8,9-HpCDF	1.13e4	0.97	NO	1.18	10.107	38.839	38.84	1.000	1.000	4.1331		0.316	4.13
17	17 OCDF	4.58e5	0.84	NO	0.896	10.107	41.427	41.43	1.000	1.000	222.62		0.354	223
18	18 13C-2,3,7,8-TCDD	1.22e6	0.78	NO	1.06	10.107	26.383	26.38	1.030	1.030	198.43	100	0.126	
19	19 13C-1,2,3,7,8-PeCDD	9.66e5	0.64	NO	0.785	10.107	31.229	31.06	1.219	1.213	212.12	107	0.248	
20	20 13C-1,2,3,4,7,8-HxCDD	7.26e5	1.26	NO	0.621	10.107	34.358	34.36	1.014	1.014	240.86	122	0.332	
21	21 13C-1,2,3,6,7,8-HxCDD	7.98e5	1.25	NO	0.734	10.107	34.480	34.48	1.017	1.017	223.79	113	0.281	
22	22 13C-1,2,3,7,8,9-HxCDD	7.95e5	1.25	NO	0.723	10.107	34.765	34.74	1.026	1.025	226.32	114	0.285	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.92e5	1.06	NO	0.568	10.107	38.266	38.20	1.129	1.127	250.98	127	0.630	
24	24 13C-OCDD	1.06e6	0.89	NO	0.496	10.107	41.205	41.13	1.216	1.213	439.65	111	0.439	
25	25 13C-2,3,7,8-TCDF	1.49e6	0.76	NO	0.919	10.107	25.682	25.68	1.003	1.003	216.55	109	0.124	
26	26 13C-1,2,3,7,8-PeCDF	1.23e6	1.57	NO	0.715	10.107	29.938	29.80	1.169	1.163	230.74	117	0.424	
27	27 13C-2,3,4,7,8-PeCDF	1.15e6	1.54	NO	0.689	10.107	31.027	30.85	1.212	1.205	222.92	113	0.441	
28	28 13C-1,2,3,4,7,8-HxCDF	8.11e5	0.50	NO	0.873	10.107	33.463	33.46	0.987	0.987	191.17	96.6	0.352	
29	29 13C-1,2,3,6,7,8-HxCDF	8.14e5	0.50	NO	0.933	10.107	33.592	33.58	0.991	0.991	179.37	90.6	0.330	
30	30 13C-2,3,4,6,7,8-HxCDF	7.59e5	0.51	NO	0.843	10.107	34.260	34.24	1.011	1.010	185.21	93.6	0.365	
31	31 13C-1,2,3,7,8,9-HxCDF	7.10e5	0.49	NO	0.780	10.107	35.260	35.25	1.040	1.040	187.38	94.7	0.394	

Dataset: U:\WG12.PRO\Results\201216R1\201216R1_8.qld

Last Altered: Monday, December 28, 2020 14:15:14 Pacific Standard Time

Printed: Monday, December 28, 2020 14:15:59 Pacific Standard Time

Name: 201216R1_8, Date: 16-Dec-2020, Time: 13:46:13, ID: 2002493-06 USMPDI-014SC-A-11-12-201109 18.26, Description: USMPDI-014SC-A-11-12-201109

#	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	5.64e5	0.43	NO	0.726	10.107	36.836	36.82	1.087	1.086	159.78	80.7	0.396	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.59e5	0.43	NO	0.491	10.107	38.846	38.83	1.146	1.145	192.39	97.2	0.586	
34	34 13C-OCDF	9.09e5	0.86	NO	0.565	10.107	41.422	41.42	1.222	1.222	330.70	83.6	0.516	
35	35 37Cl-2,3,7,8-TCDD	5.25e5			1.22	10.107	26.378	26.39	1.030	1.031	74.294	93.9	0.0367	
36	36 13C-1,2,3,4-TCDD	1.15e6	0.78	NO	1.00	10.107	25.640	25.61	1.000	1.000	197.89	100	0.133	
37	37 13C-1,2,3,4-TCDF	1.48e6	0.77	NO	1.00	10.107	24.130	24.12	1.000	1.000	197.89	100	0.114	
38	38 13C-1,2,3,4,6,9-HxCDF	9.62e5	0.50	NO	1.00	10.107	33.920	33.90	1.000	1.000	197.89	100	0.308	
39	39 Total Tetra-Dioxins				0.980	10.107	24.620		0.000		11.077		0.0436	11.6
40	40 Total Penta-Dioxins				0.932	10.107	29.960		0.000		30.119		0.0883	30.1
41	41 Total Hexa-Dioxins				0.902	10.107	33.635		0.000		227.55		0.324	228
42	42 Total Hepta-Dioxins				0.918	10.107	37.640		0.000		1624.2		1.29	1620
43	43 Total Tetra-Furans				0.848	10.107	23.610		0.000		77.966		0.0839	79.5
44	44 1st Func. Penta-Furans				0.960	10.107	26.930		0.000		110.61		0.0274	111
45	45 Total Penta-Furans				0.960	10.107	29.275		0.000		83.270		0.0994	83.3
46	46 Total Hexa-Furans				1.02	10.107	33.555		0.000		242.78		0.180	243
47	47 Total Hepta-Furans				1.05	10.107	37.835		0.000		594.73		0.353	595

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_8.qld

Last Altered: Monday, December 28, 2020 14:15:14 Pacific Standard Time

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Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_8, Date: 16-Dec-2020, Time: 13:46:13, ID: 2002493-06 USMPDI-014SC-A-11-12-201109 18.26, Description: USMPDI-014SC-A-11-12-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.61	8.114e4	1.149e5	6.724e3	9.039e3	0.74	NO	1.576e4	2.6179	2.6179	0.0436
2	Total Tetra-Dioxins	22.95	2.467e4	3.628e4	2.236e3	3.143e3	0.71	NO	5.378e3	0.89319	0.89319	0.0436
3	Total Tetra-Dioxins	23.47	2.092e4	3.124e4	1.776e3	2.375e3	0.75	NO	4.150e3	0.68929	0.68929	0.0436
4	Total Tetra-Dioxins	24.32	1.164e4	1.681e4	7.331e2	1.113e3	0.66	NO	1.846e3	0.30656	0.30656	0.0436
5	Total Tetra-Dioxins	24.53	4.677e4	5.783e4	3.538e3	5.017e3	0.71	NO	8.555e3	1.4208	1.4208	0.0436
6	Total Tetra-Dioxins	24.75	4.261e4	5.452e4	2.897e3	3.602e3	0.80	NO	6.499e3	1.0794	1.0794	0.0436
7	Total Tetra-Dioxins	24.96	1.948e4	2.342e4	1.173e3	1.588e3	0.74	NO	2.762e3	0.45864	0.45864	0.0436
8	Total Tetra-Dioxins	25.25	1.366e4	1.565e4	6.287e2	8.369e2	0.75	NO	1.466e3	0.24340	0.24340	0.0436
9	Total Tetra-Dioxins	25.33	2.653e4	3.916e4	1.847e3	2.393e3	0.77	NO	4.241e3	0.70428	0.70428	0.0436
10	Total Tetra-Dioxins	25.65	4.764e3	4.772e3	2.287e2	3.041e2	0.75	NO	5.327e2	0.088471	0.088471	0.0436
11	Total Tetra-Dioxins	25.71	1.907e4	2.407e4	1.589e3	1.529e3	1.04	YES	0.000e0	0.00000	0.44954	0.0436
12	Total Tetra-Dioxins	25.83	9.380e3	1.077e4	4.924e2	5.955e2	0.83	NO	1.088e3	0.18067	0.18067	0.0436
13	Total Tetra-Dioxins	26.10	2.436e4	3.906e4	2.747e3	3.798e3	0.72	NO	6.545e3	1.0869	1.0869	0.0436
14	2,3,7,8-TCDD	26.39	1.889e4	3.273e4	1.248e3	1.904e3	0.66	NO	3.152e3	0.52344	0.52344	0.0436
15	Total Tetra-Dioxins	26.70	2.658e4	3.097e4	1.407e3	1.857e3	0.76	NO	3.265e3	0.54216	0.54216	0.0436
16	Total Tetra-Dioxins	26.85	6.780e3	6.637e3	3.743e2	3.902e2	0.96	YES	0.000e0	0.00000	0.11469	0.0436
17	Total Tetra-Dioxins	27.28	1.004e4	1.504e4	6.342e2	8.228e2	0.77	NO	1.457e3	0.24198	0.24198	0.0436

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_8.qld

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Name: 201216R1_8, Date: 16-Dec-2020, Time: 13:46:13, ID: 2002493-06 USMPDI-014SC-A-11-12-201109 18.26, Description: USMPDI-014SC-A-11-12-201109

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.82	2.343e5	3.711e5	1.827e4	2.891e4	0.63	NO	4.718e4	10.373	10.373	0.0883
2	Total Penta-Dioxins	29.28	5.086e4	8.468e4	2.667e3	3.971e3	0.67	NO	6.638e3	1.4595	1.4595	0.0883
3	Total Penta-Dioxins	29.83	1.591e5	2.674e5	9.541e3	1.607e4	0.59	NO	2.561e4	5.6308	5.6308	0.0883
4	Total Penta-Dioxins	29.99	7.172e4	1.372e5	3.706e3	6.905e3	0.54	NO	1.061e4	2.3331	2.3331	0.0883
5	Total Penta-Dioxins	30.05	7.612e4	1.406e5	3.919e3	7.011e3	0.56	NO	1.093e4	2.4030	2.4030	0.0883
6	Total Penta-Dioxins	30.29	1.088e5	1.558e5	6.729e3	1.105e4	0.61	NO	1.778e4	3.9087	3.9087	0.0883
7	Total Penta-Dioxins	30.61	1.885e4	3.793e4	1.143e3	1.986e3	0.58	NO	3.129e3	0.68787	0.68787	0.0883
8	1,2,3,7,8-PeCDD	31.08	6.095e4	8.839e4	2.803e3	4.738e3	0.59	NO	7.541e3	1.6579	1.6579	0.0883
9	Total Penta-Dioxins	31.15	2.734e4	5.183e4	1.529e3	2.448e3	0.62	NO	3.977e3	0.87433	0.87433	0.0883
10	Total Penta-Dioxins	31.42	2.299e4	3.778e4	1.369e3	2.228e3	0.61	NO	3.597e3	0.79090	0.79090	0.0883

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.81	5.567e6	4.539e6	1.650e5	1.360e5	1.21	NO	3.010e5	85.355	85.355	0.324
2	Total Hexa-Dioxins	33.33	5.717e5	4.762e5	2.634e4	2.119e4	1.24	NO	4.753e4	13.479	13.479	0.324
3	Total Hexa-Dioxins	33.63	2.990e6	2.474e6	1.920e5	1.579e5	1.22	NO	3.499e5	99.233	99.233	0.324
4	Total Hexa-Dioxins	33.72	9.781e4	7.922e4	4.187e3	3.258e3	1.29	NO	7.445e3	2.1114	2.1114	0.324
5	1,2,3,4,7,8-HxCDD	34.38	6.106e4	5.416e4	3.167e3	2.709e3	1.17	NO	5.876e3	1.5690	1.5690	0.298
6	1,2,3,6,7,8-HxCDD	34.49	6.797e5	5.708e5	3.570e4	2.927e4	1.22	NO	6.497e4	17.845	17.845	0.323
7	Total Hexa-Dioxins	34.66	9.035e4	7.580e4	5.194e3	4.298e3	1.21	NO	9.492e3	2.6917	2.6917	0.324
8	1,2,3,7,8,9-HxCDD	34.77	2.190e5	1.650e5	1.130e4	8.883e3	1.27	NO	2.019e4	5.2668	5.2668	0.295

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.21	2.057e7	2.050e7	1.360e6	1.344e6	1.01	NO	2.705e6	841.88	841.88	1.29
2	1,2,3,4,6,7,8-HpCDD	38.22	2.458e7	2.392e7	1.264e6	1.249e6	1.01	NO	2.513e6	782.36	782.36	1.29

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_8.qld

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Name: 201216R1_8, Date: 16-Dec-2020, Time: 13:46:13, ID: 2002493-06 USMPDI-014SC-A-11-12-201109 18.26, Description: USMPDI-014SC-A-11-12-201109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.35	1.623e4	2.547e4	1.457e3	2.100e3	0.69	NO	3.557e3	0.55796	0.55796	0.0839
2	Total Tetra-Furans	20.89	6.168e4	8.149e4	5.813e3	7.686e3	0.76	NO	1.350e4	2.1174	2.1174	0.0839
3	Total Tetra-Furans	21.54	6.740e3	9.262e3	4.716e2	6.293e2	0.75	NO	1.101e3	0.17268	0.17268	0.0839
4	Total Tetra-Furans	21.69	4.561e5	6.222e5	4.244e4	5.799e4	0.73	NO	1.004e5	15.754	15.754	0.0839
5	Total Tetra-Furans	21.96	5.369e3	7.330e3	4.503e2	4.256e2	1.06	YES	0.000e0	0.00000	0.11815	0.0839
6	Total Tetra-Furans	22.08	2.429e4	3.316e4	2.410e3	3.204e3	0.75	NO	5.614e3	0.88067	0.88067	0.0839
7	Total Tetra-Furans	22.22	1.839e4	3.038e4	1.969e3	2.932e3	0.67	NO	4.901e3	0.76875	0.76875	0.0839
8	Total Tetra-Furans	22.31	2.165e4	2.287e4	1.545e3	1.992e3	0.78	NO	3.537e3	0.55486	0.55486	0.0839
9	Total Tetra-Furans	22.56	1.978e4	2.662e4	1.004e3	1.211e3	0.83	NO	2.215e3	0.34741	0.34741	0.0839
10	Total Tetra-Furans	22.64	2.222e5	3.136e5	1.858e4	2.597e4	0.72	NO	4.455e4	6.9874	6.9874	0.0839
11	Total Tetra-Furans	23.11	3.135e5	4.486e5	2.786e4	3.869e4	0.72	NO	6.654e4	10.438	10.438	0.0839
12	Total Tetra-Furans	23.24	1.348e4	1.623e4	9.271e2	9.080e2	1.02	YES	0.000e0	0.00000	0.25210	0.0839
13	Total Tetra-Furans	23.45	2.668e4	3.241e4	2.073e3	2.681e3	0.77	NO	4.754e3	0.74565	0.74565	0.0839
14	Total Tetra-Furans	23.86	1.136e4	1.394e4	7.618e2	9.612e2	0.79	NO	1.723e3	0.27028	0.27028	0.0839
15	Total Tetra-Furans	23.98	3.315e4	4.717e4	2.672e3	3.687e3	0.72	NO	6.360e3	0.99755	0.99755	0.0839
16	Total Tetra-Furans	24.18	3.598e4	5.179e4	2.032e3	2.995e3	0.68	NO	5.027e3	0.78857	0.78857	0.0839
17	Total Tetra-Furans	24.26	3.279e5	4.441e5	2.629e4	3.607e4	0.73	NO	6.236e4	9.7821	9.7821	0.0839
18	Total Tetra-Furans	24.53	8.083e4	1.113e5	5.708e3	7.796e3	0.73	NO	1.350e4	2.1182	2.1182	0.0839
19	Total Tetra-Furans	24.69	1.426e5	2.031e5	1.103e4	1.471e4	0.75	NO	2.573e4	4.0364	4.0364	0.0839
20	Total Tetra-Furans	25.00	2.160e4	3.177e4	1.400e3	2.105e3	0.67	NO	3.505e3	0.54976	0.54976	0.0839
21	Total Tetra-Furans	25.14	2.000e4	2.951e4	1.581e3	2.229e3	0.71	NO	3.810e3	0.59769	0.59769	0.0839
22	Total Tetra-Furans	25.23	7.463e3	8.736e3	4.202e2	5.424e2	0.77	NO	9.626e2	0.15100	0.15100	0.0839
23	Total Tetra-Furans	25.42	3.058e4	3.870e4	2.021e3	2.534e3	0.80	NO	4.555e3	0.71453	0.71453	0.0839
24	Total Tetra-Furans	25.58	5.578e4	7.949e4	3.928e3	5.166e3	0.76	NO	9.094e3	1.4264	1.4264	0.0839
25	2,3,7,8-TCDF	25.71	1.648e5	2.484e5	1.144e4	1.541e4	0.74	NO	2.685e4	4.2111	4.2111	0.0839
26	Total Tetra-Furans	25.97	1.502e4	1.852e4	8.152e2	9.714e2	0.84	NO	0.000e0	0.00000	0.28025	0.0839
27	Total Tetra-Furans	26.01	3.713e4	4.966e4	2.356e3	3.166e3	0.74	NO	0.000e0	0.00000	0.86617	0.0839
28	Total Tetra-Furans	26.29	6.964e3	1.118e4	4.715e2	6.164e2	0.77	NO	1.088e3	0.17065	0.17065	0.0839
29	Total Tetra-Furans	26.38	2.796e4	4.302e4	1.487e3	2.022e3	0.74	NO	3.509e3	0.55041	0.55041	0.0839
30	Total Tetra-Furans	26.88	2.092e5	2.950e5	1.196e4	1.665e4	0.72	NO	2.860e4	4.4870	4.4870	0.0839
31	Total Tetra-Furans	27.03	2.258e5	3.326e5	1.339e4	1.838e4	0.73	NO	3.177e4	4.9833	4.9833	0.0839
32	Total Tetra-Furans	27.21	1.131e5	1.469e5	6.839e3	9.021e3	0.76	NO	1.586e4	2.4878	2.4878	0.0839

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_8.qld

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Name: 201216R1_8, Date: 16-Dec-2020, Time: 13:46:13, ID: 2002493-06 USMPDI-014SC-A-11-12-201109 18.26, Description: USMPDI-014SC-A-11-12-201109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
33	Total Tetra-Furans	27.59	1.785e4	1.887e4	9.227e2	1.108e3	0.83	NO	2.031e3	0.31852	0.31852	0.0839

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	27.19	6.522e6	4.203e6	3.909e5	2.477e5	1.58	NO	6.386e5	110.61	110.61	0.0274

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.67	1.549e5	8.601e4	9.931e3	6.207e3	1.60	NO	1.614e4	2.7952	2.7952	0.0994
2	Total Penta-Furans	28.83	1.718e6	1.081e6	1.180e5	7.616e4	1.55	NO	1.942e5	33.637	33.637	0.0994
3	Total Penta-Furans	29.19	2.027e4	1.318e4	8.807e2	5.080e2	1.73	NO	1.389e3	0.24055	0.24055	0.0994
4	Total Penta-Furans	29.28	2.757e4	2.568e4	2.246e3	1.495e3	1.50	NO	3.741e3	0.64791	0.64791	0.0994
5	Total Penta-Furans	29.45	8.758e5	5.762e5	4.848e4	3.079e4	1.57	NO	7.927e4	13.730	13.730	0.0994
6	Total Penta-Furans	29.62	7.465e4	4.035e4	3.956e3	2.366e3	1.67	NO	6.321e3	1.0949	1.0949	0.0994
7	1,2,3,7,8-PeCDF	29.81	2.769e5	1.740e5	1.385e4	8.910e3	1.55	NO	2.276e4	3.8046	3.8046	0.0902
8	Total Penta-Furans	30.07	4.130e5	2.707e5	3.831e4	2.457e4	1.56	NO	6.288e4	10.892	10.892	0.0994
9	Total Penta-Furans	30.25	2.276e4	1.640e4	1.148e3	7.675e2	1.50	NO	1.916e3	0.33186	0.33186	0.0994
10	Total Penta-Furans	30.63	1.109e4	6.549e3	3.745e2	2.418e2	1.55	NO	6.163e2	0.10675	0.10675	0.0994
11	Total Penta-Furans	30.69	7.459e4	6.230e4	3.688e3	2.693e3	1.37	NO	6.380e3	1.1052	1.1052	0.0994
12	2,3,4,7,8-PeCDF	30.88	1.033e6	6.856e5	5.105e4	3.304e4	1.55	NO	8.409e4	13.590	13.590	0.0983
13	Total Penta-Furans	31.51	2.650e4	1.614e4	1.099e3	7.717e2	1.42	NO	1.871e3	0.32410	0.32410	0.0994
14	Total Penta-Furans	31.67	5.036e4	2.912e4	2.242e3	1.448e3	1.55	NO	3.690e3	0.63916	0.63916	0.0994
15	Total Penta-Furans	31.79	2.120e4	1.245e4	1.152e3	7.569e2	1.52	NO	1.909e3	0.33064	0.33064	0.0994

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Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.26	7.965e5	6.327e5	5.638e4	4.680e4	1.20	NO	1.032e5	25.874	25.874	0.180
2	Total Hexa-Furans	32.37	7.587e5	6.171e5	3.902e4	3.203e4	1.22	NO	7.104e4	17.815	17.815	0.180
3	Total Hexa-Furans	32.46	1.736e6	1.424e6	1.158e5	9.476e4	1.22	NO	2.106e5	52.800	52.800	0.180
4	Total Hexa-Furans	32.87	4.722e4	4.382e4	1.669e3	1.573e3	1.06	NO	3.242e3	0.81288	0.81288	0.180
5	Total Hexa-Furans	33.02	5.572e6	4.715e6	2.400e5	1.992e5	1.21	NO	4.392e5	110.14	110.14	0.180
6	Total Hexa-Furans	33.34	5.458e4	4.629e4	2.524e3	2.067e3	1.22	NO	4.591e3	1.1512	1.1512	0.180
7	1,2,3,4,7,8-HxCDF	33.47	4.583e5	3.788e5	2.190e4	1.793e4	1.22	NO	3.983e4	9.8518	9.8518	0.165
8	1,2,3,6,7,8-HxCDF	33.60	5.767e5	4.639e5	2.747e4	2.263e4	1.21	NO	5.009e4	11.727	11.727	0.161
9	Total Hexa-Furans	33.90	2.520e4	1.820e4	1.213e3	8.632e2	1.40	NO	2.076e3	0.52051	0.52051	0.180
10	Total Hexa-Furans	34.05	2.004e4	1.550e4	8.655e2	6.825e2	1.27	NO	1.548e3	0.38819	0.38819	0.180
11	2,3,4,6,7,8-HxCDF	34.27	3.324e5	2.887e5	2.033e4	1.622e4	1.25	NO	3.655e4	9.3437	9.3437	0.190
12	1,2,3,7,8,9-HxCDF	35.27	5.543e4	4.458e4	1.091e3	1.033e3	1.06	NO	2.125e3	0.59737	0.59737	0.217
13	Total Hexa-Furans	35.29	8.537e4	6.493e4	3.973e3	3.032e3	1.31	NO	7.006e3	1.7567	1.7567	0.180

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	36.83	7.222e6	7.167e6	4.439e5	4.389e5	1.01	NO	8.828e5	295.17	295.17	0.353
2	Total Hepta-Furans	37.29	1.782e4	1.809e4	1.971e3	1.935e3	1.02	NO	3.906e3	1.4399	1.4399	0.353
3	Total Hepta-Furans	37.55	6.719e6	6.551e6	4.009e5	3.966e5	1.01	NO	7.975e5	293.99	293.99	0.353
4	1,2,3,4,7,8,9-HpCDF	38.84	1.187e5	1.164e5	5.548e3	5.729e3	0.97	NO	1.128e4	4.1331	4.1331	0.316

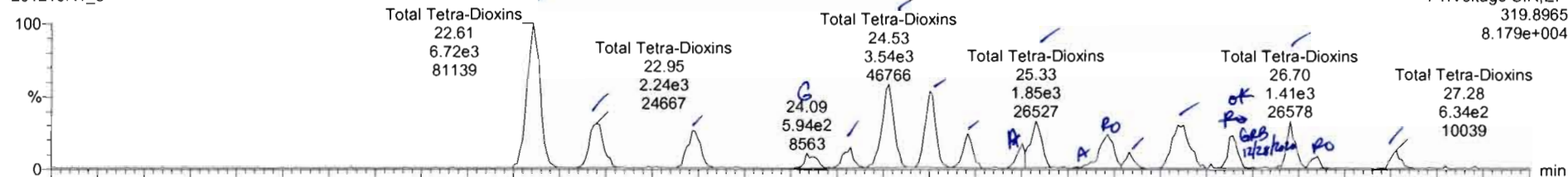
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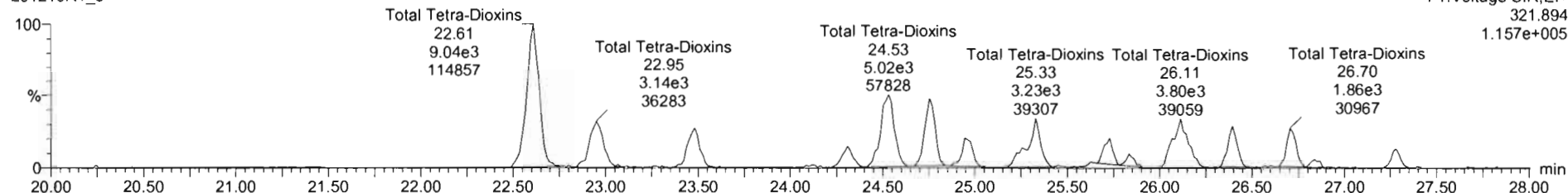
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2,3,7,8-TCDD

201216R1_8

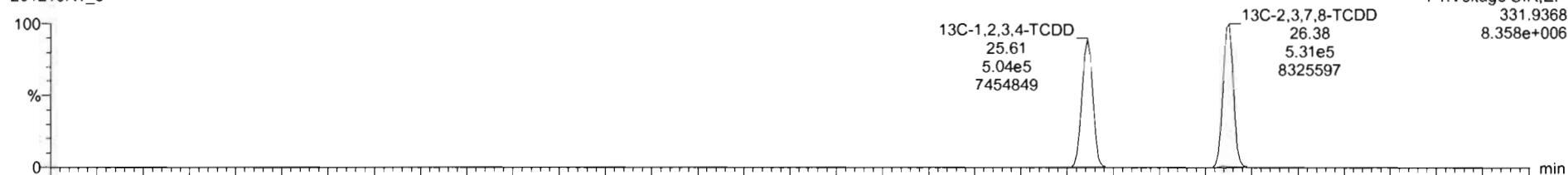


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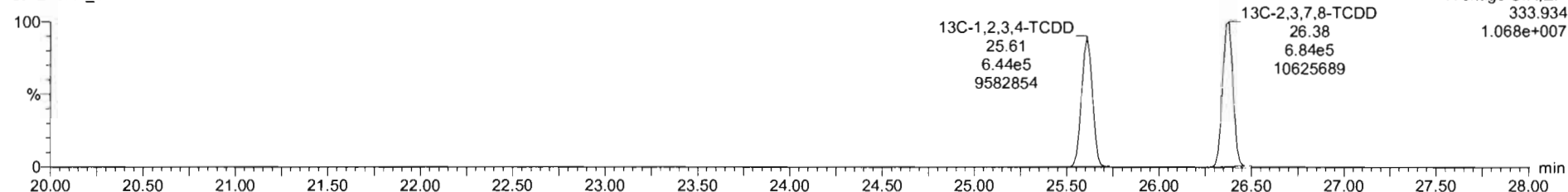


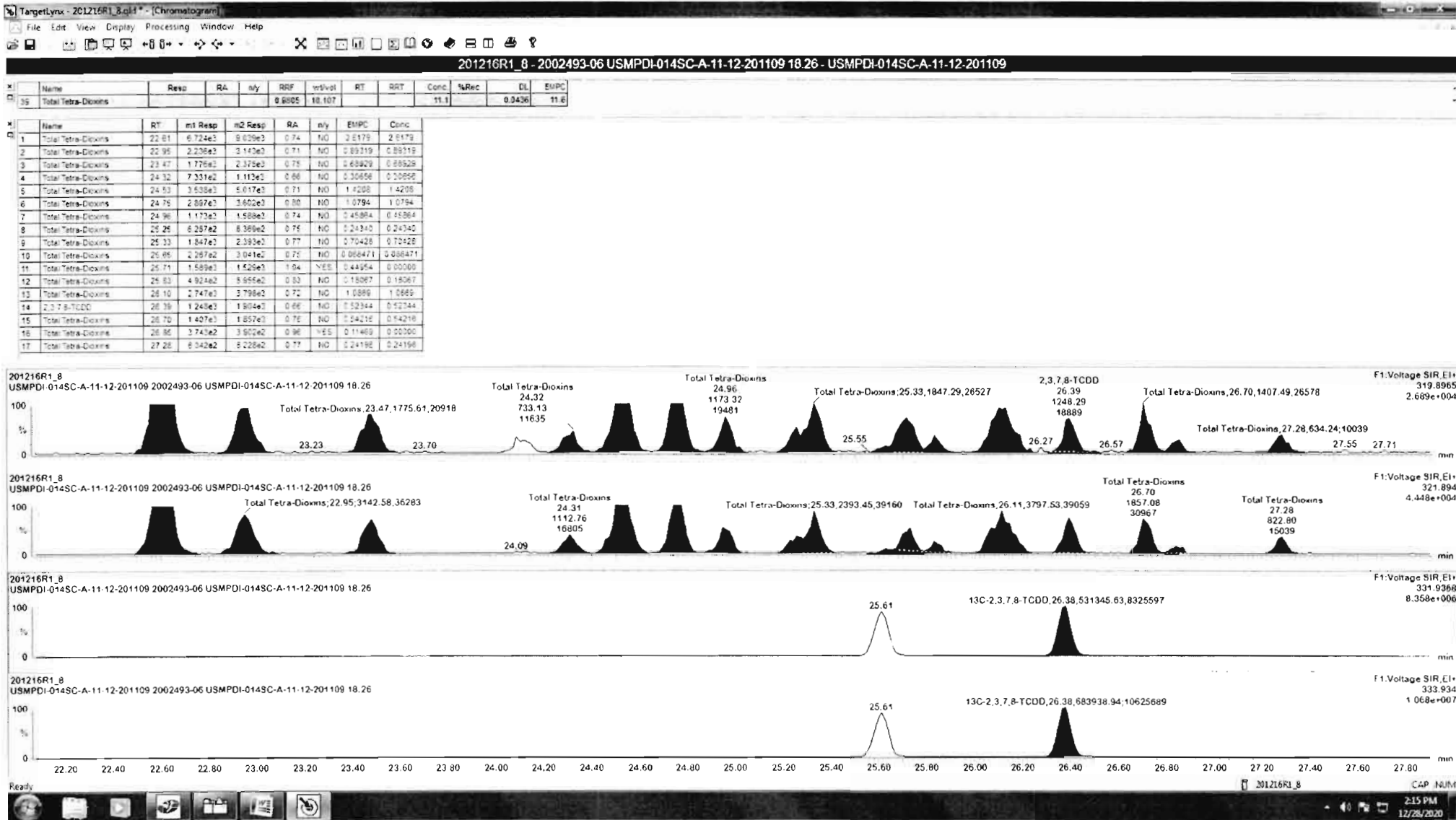
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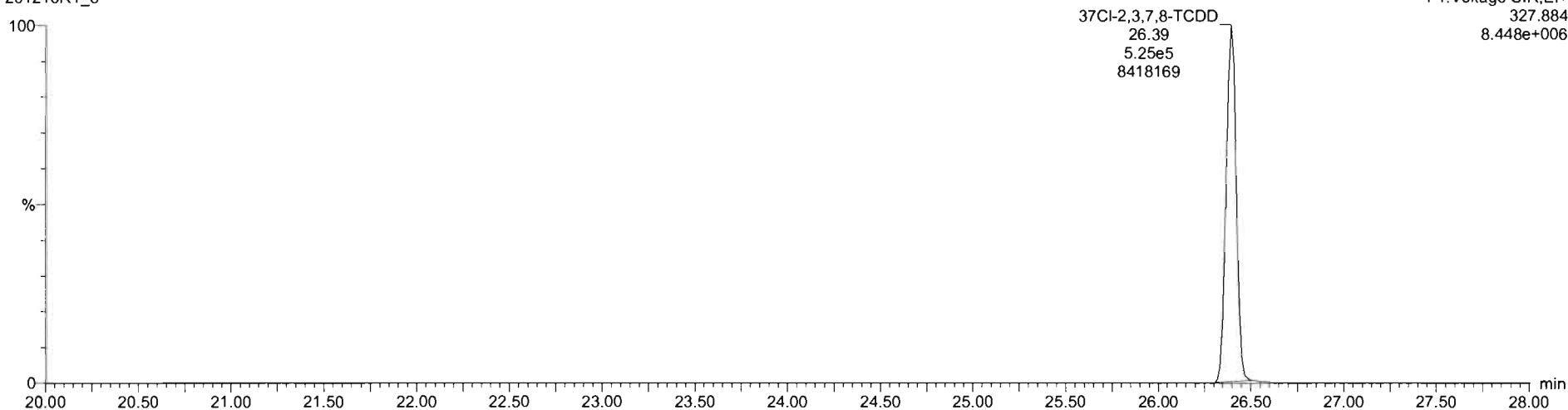
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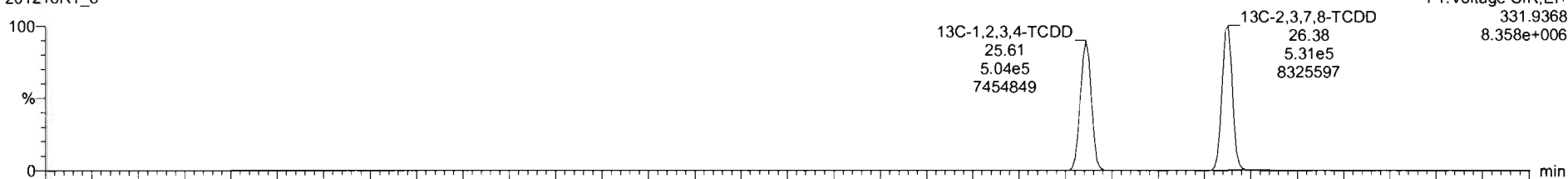
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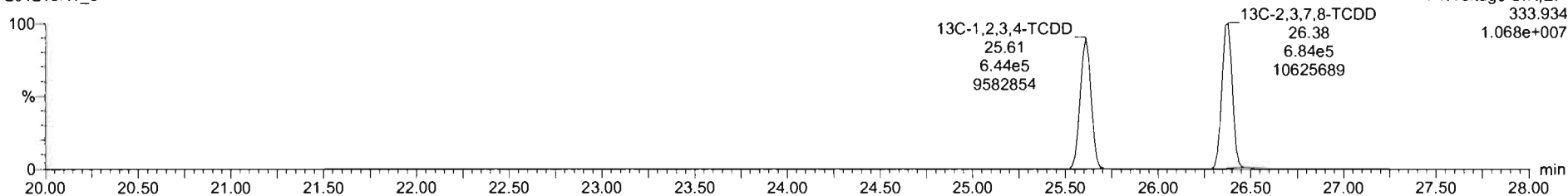


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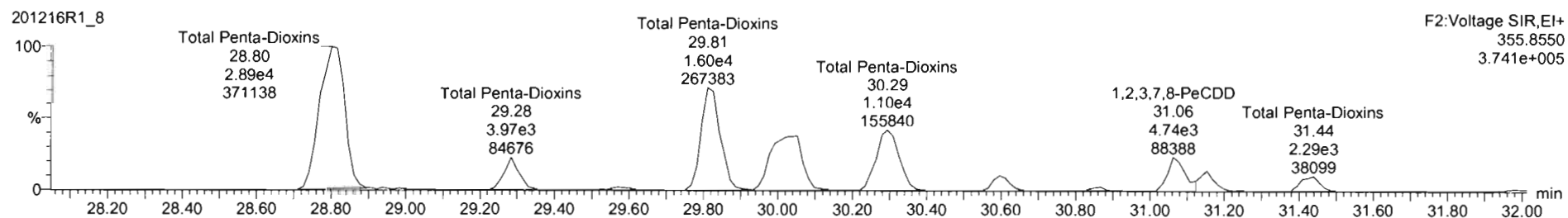
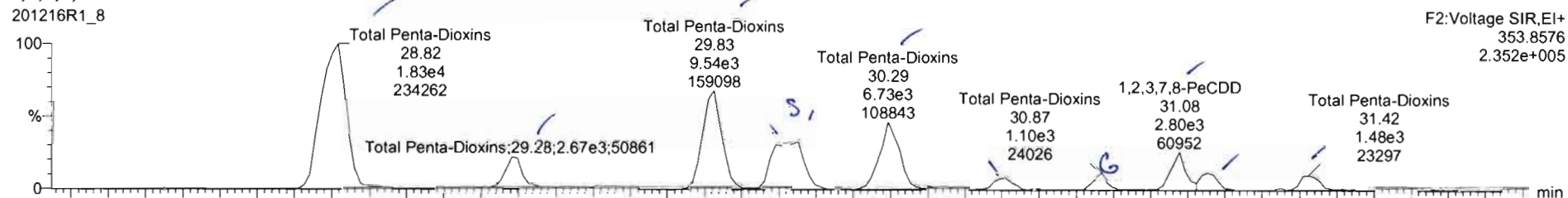
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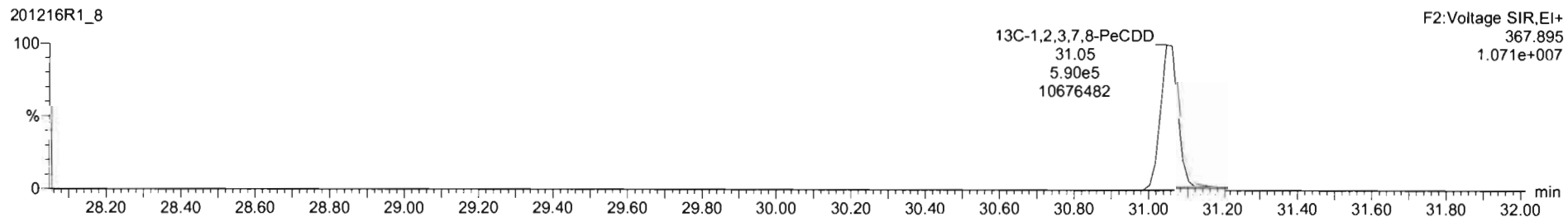
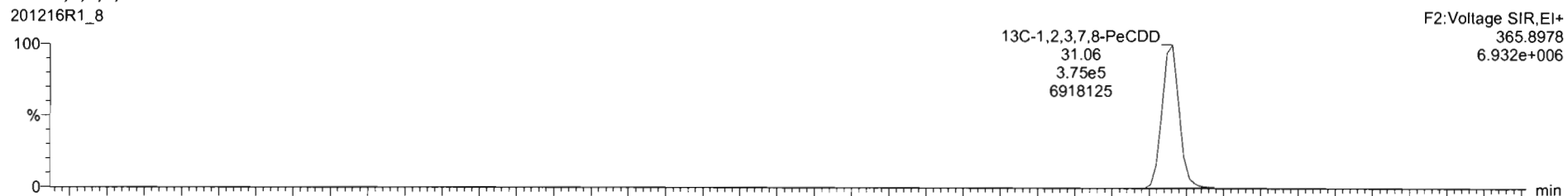
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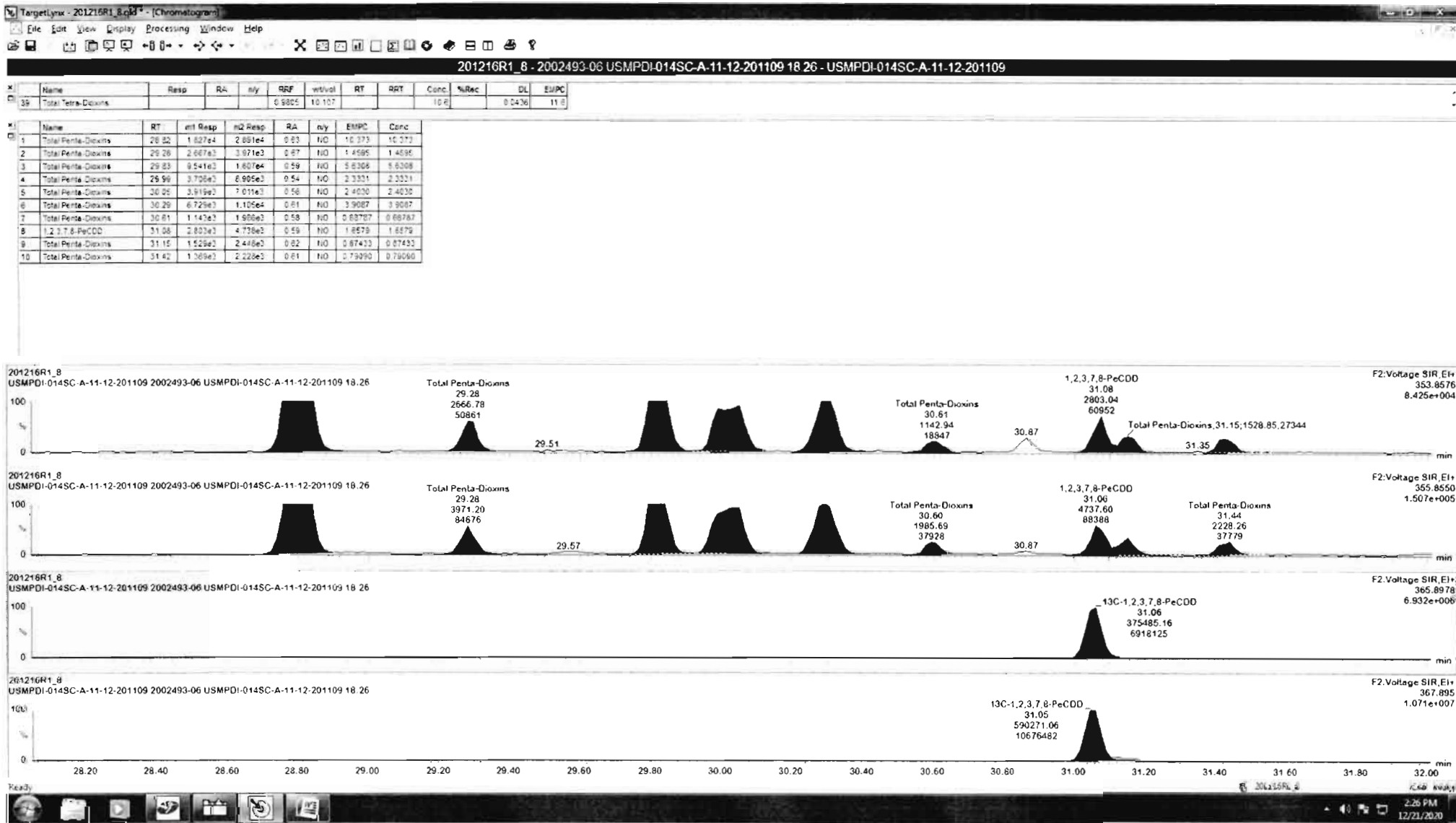
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1,2,3,7,8-PeCDD



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





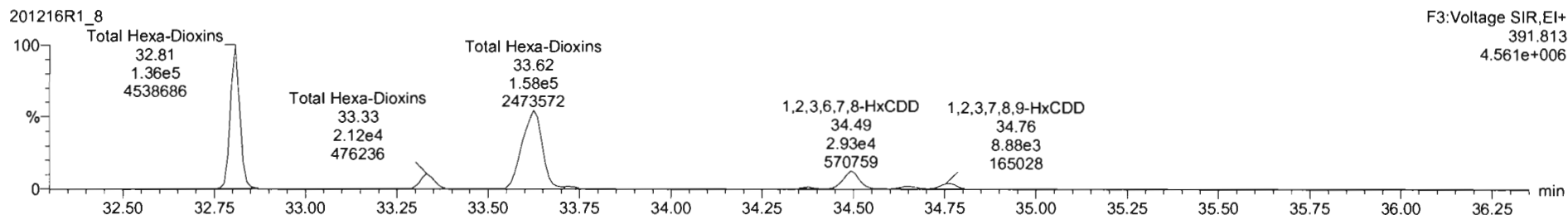
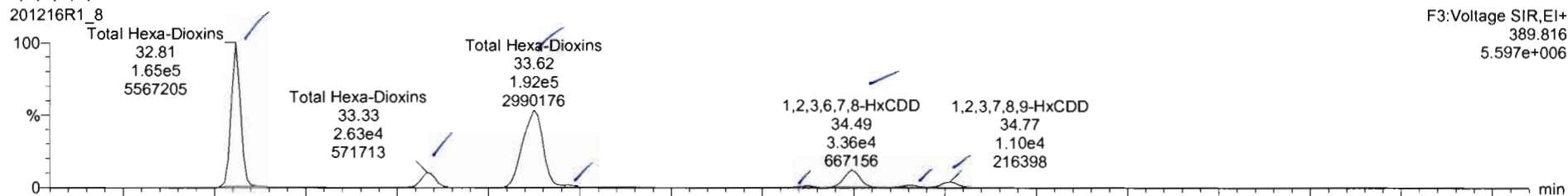
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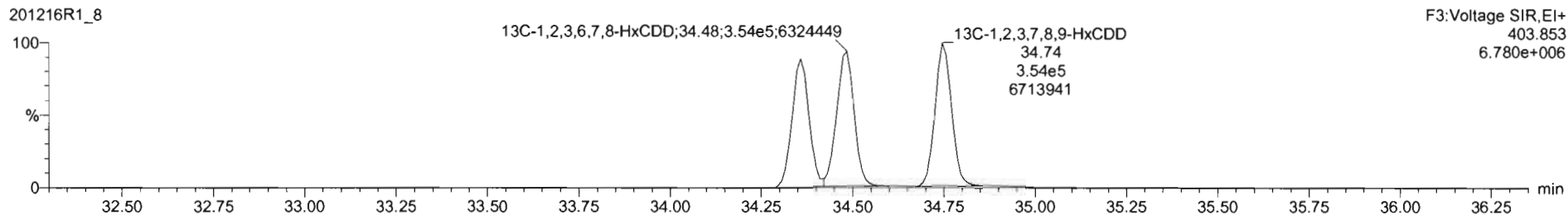
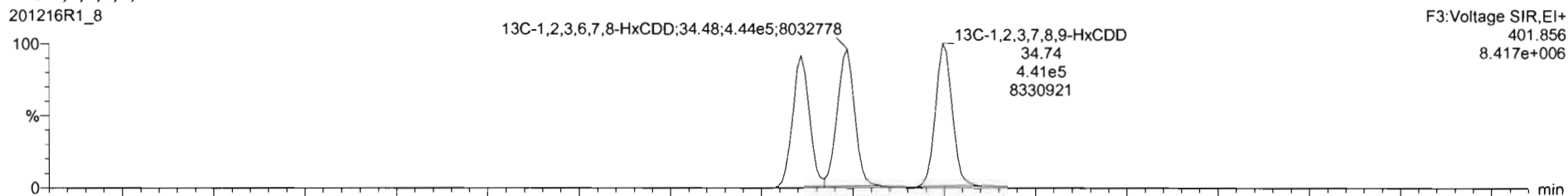
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1,2,3,4,7,8-HxCDD

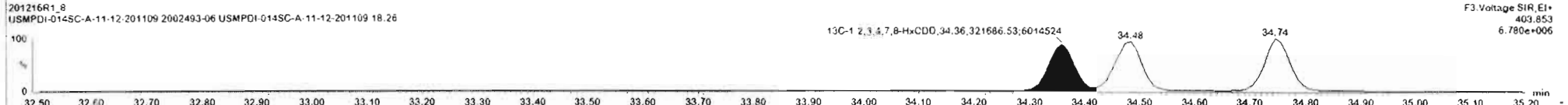
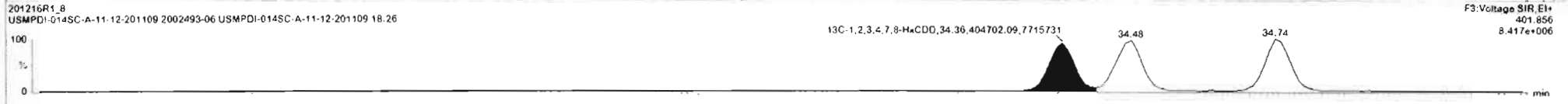
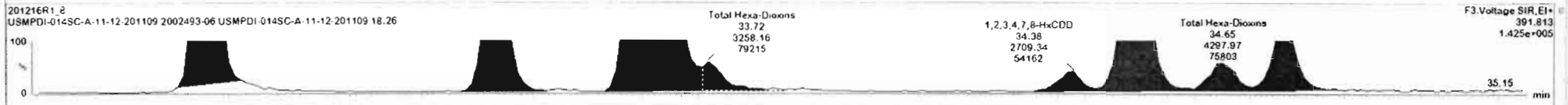
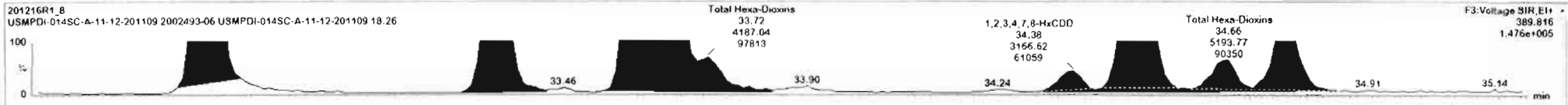


13C-1,2,3,4,7,8-HxCDD



Q1	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9925	10.107					0.324	228

Q1	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	32.81	1.650e5	1.360e5	1.21	NO	65.365	65.365
2	Total Hexa-Dioxins	33.33	2.813e4	2.119e4	1.24	NO	13.479	13.479
3	Total Hexa-Dioxins	33.83	1.920e5	1.579e5	1.22	NO	99.233	99.233
4	Total Hexa-Dioxins	33.72	4.187e5	3.258e5	1.29	NO	2.1114	2.1114
5	1,2,3,4,7,8-HxCDD	34.36	3.167e3	2.709e3	1.17	NO	1.5690	1.5690
6	1,2,3,6,7,8-HxCDD	34.49	3.570e4	2.927e4	1.22	NO	17.645	17.645
7	Total Hexa-Dioxins	34.66	5.194e3	4.266e3	1.21	NO	2.6917	2.6917
8	1,2,3,7,8,9-HxCDD	34.77	1.130e4	8.881e3	1.27	NO	5.2688	5.2688



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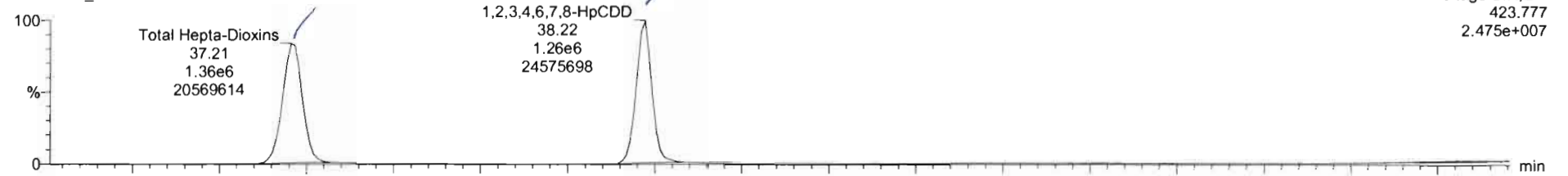
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

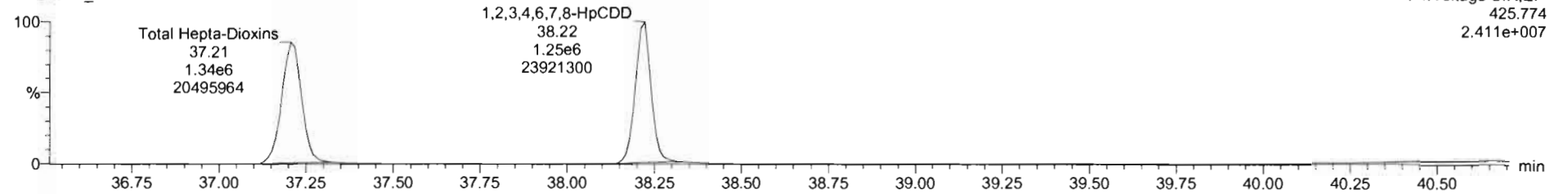
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1,2,3,4,6,7,8-HpCDD

201216R1_8

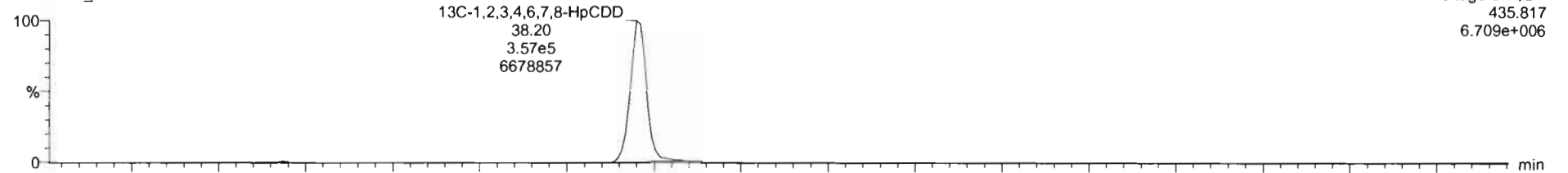


201216R1_8

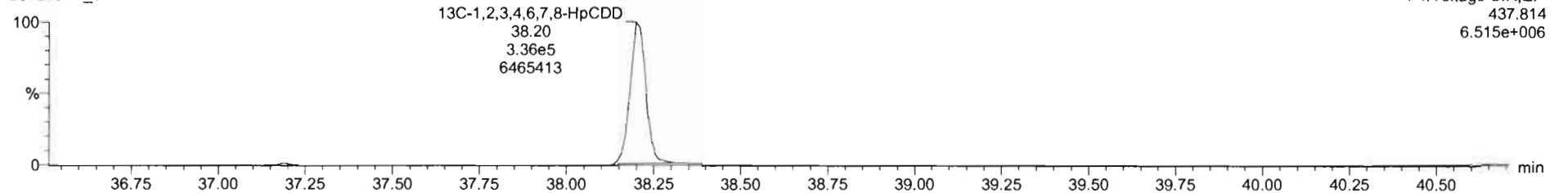


13C-1,2,3,4,6,7,8-HpCDD

201216R1_8



201216R1_8

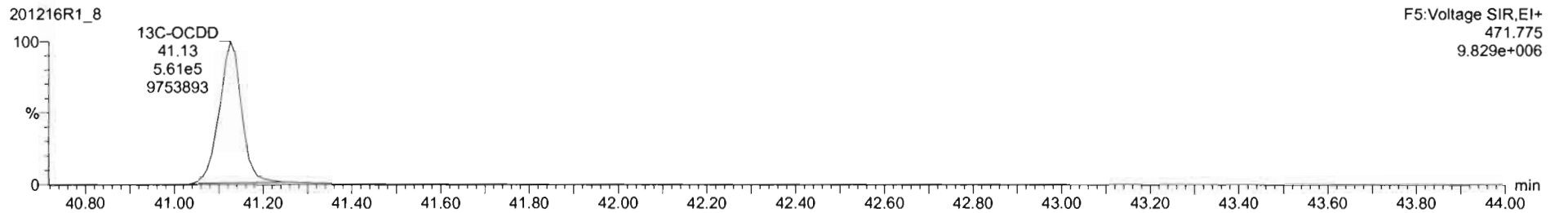
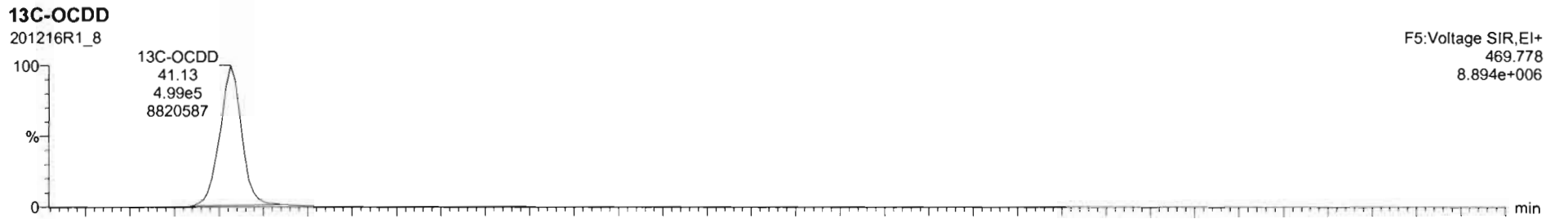
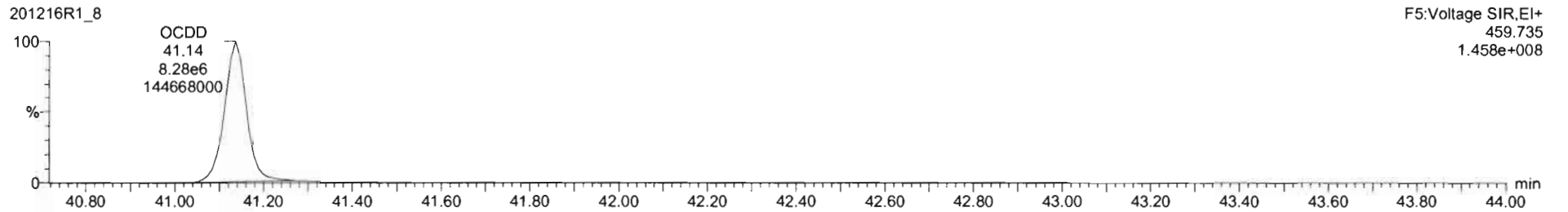
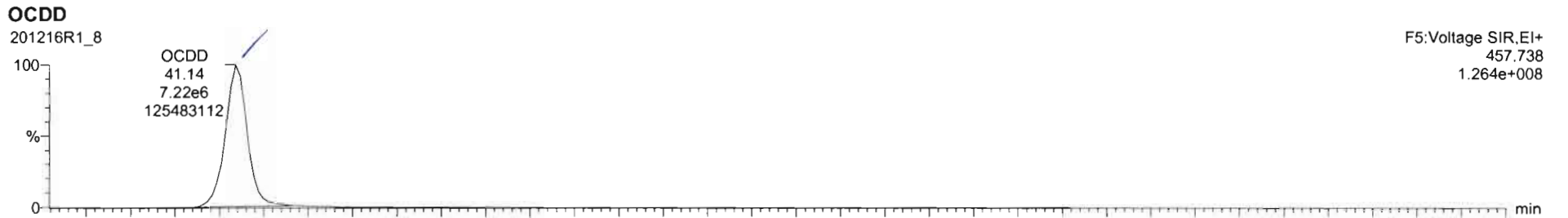


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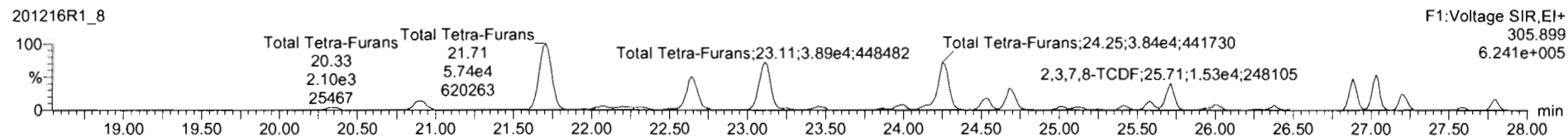
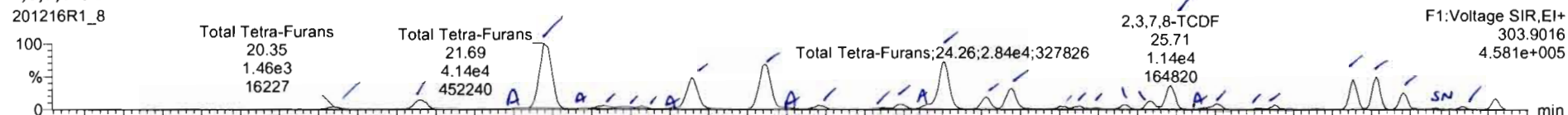
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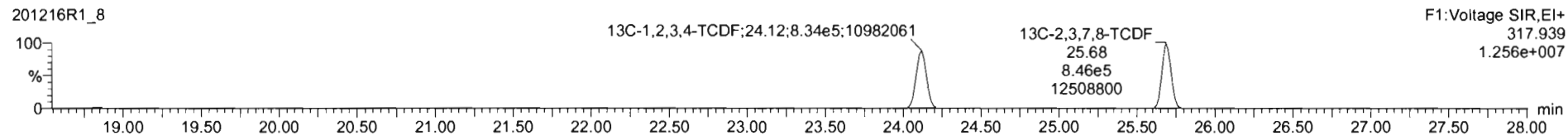
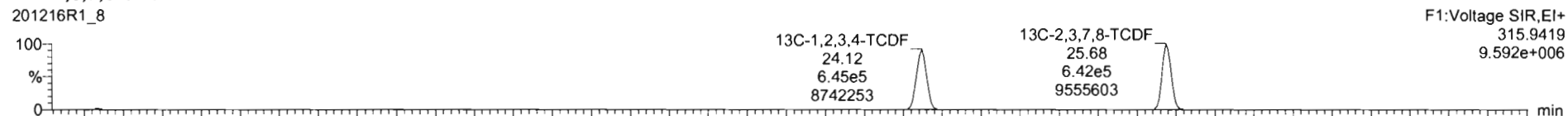
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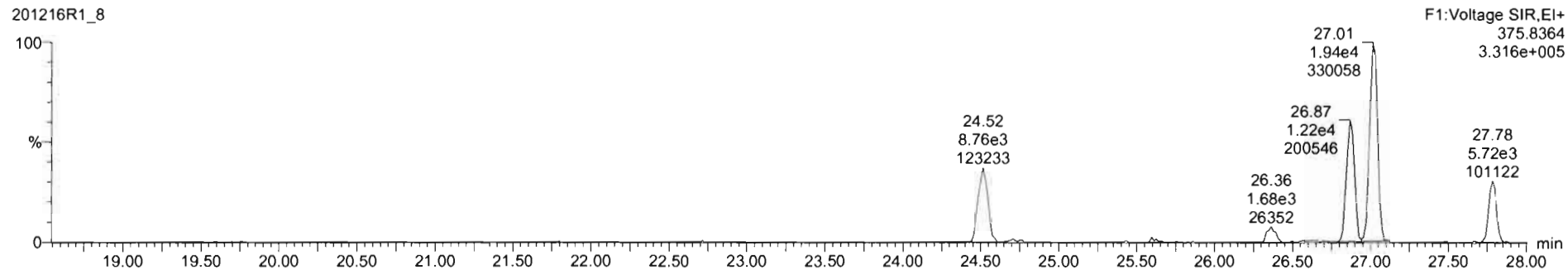
2,3,7,8-TCDF

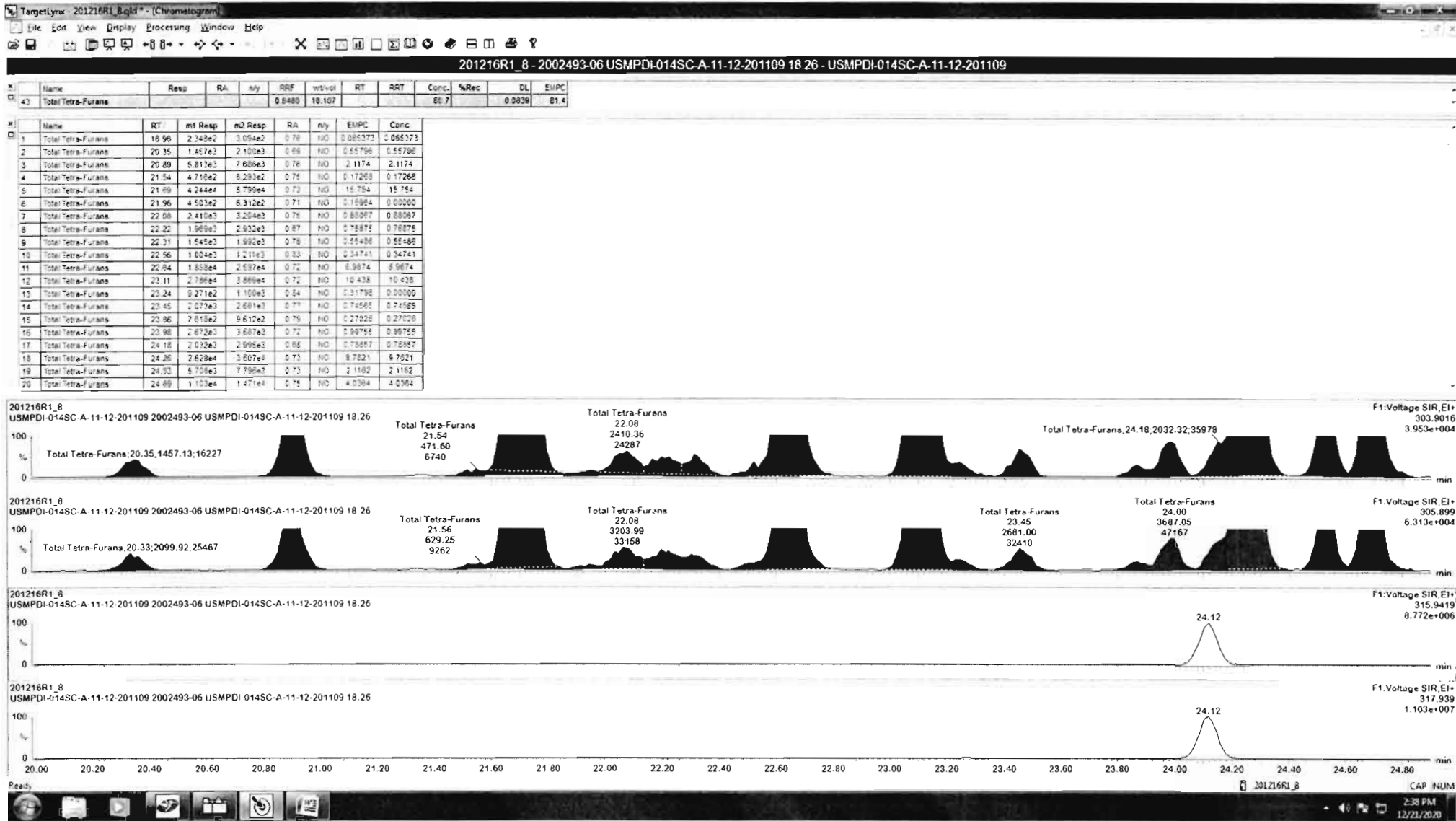


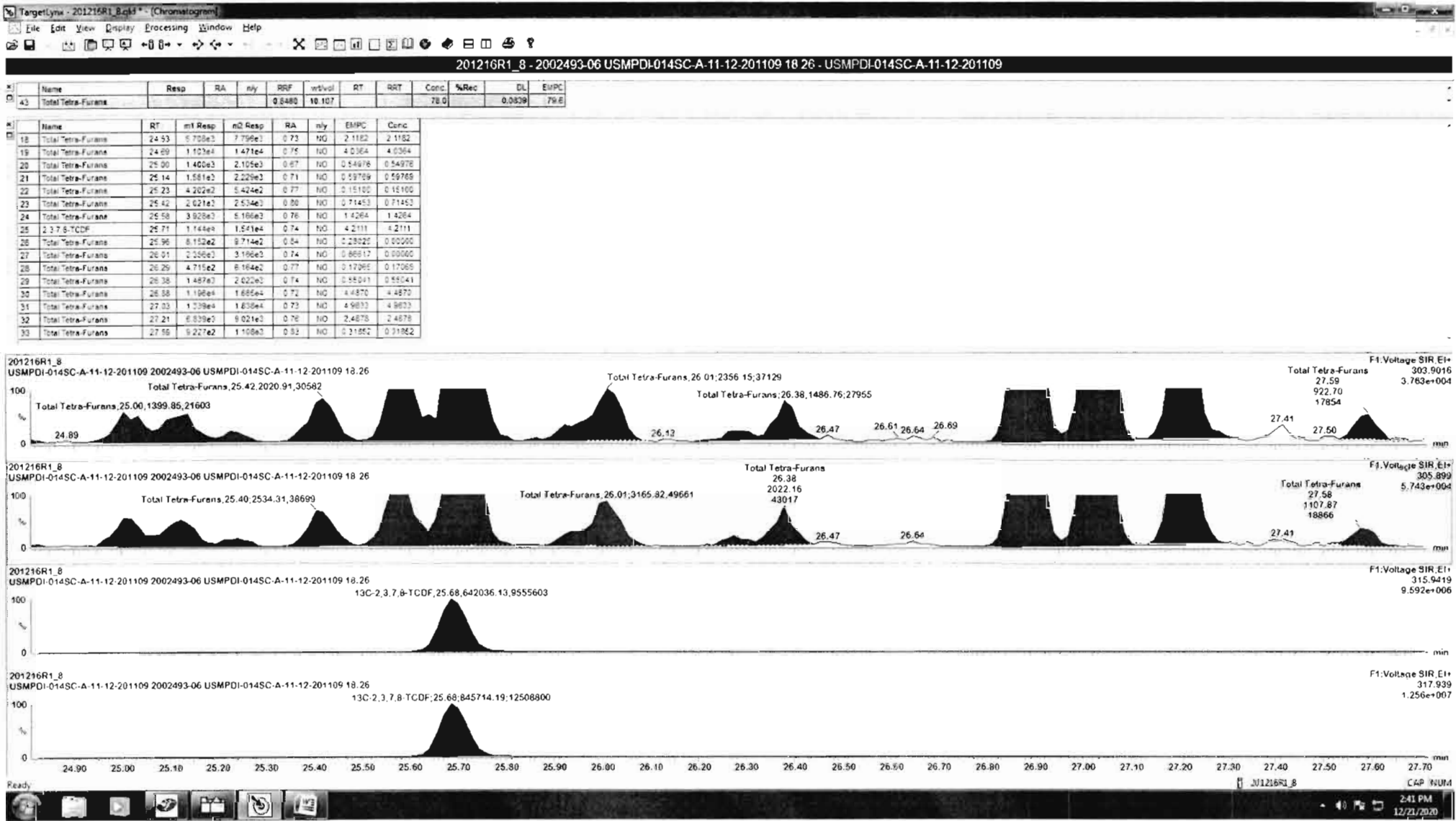
13C-2,3,7,8-TCDF



DPE1







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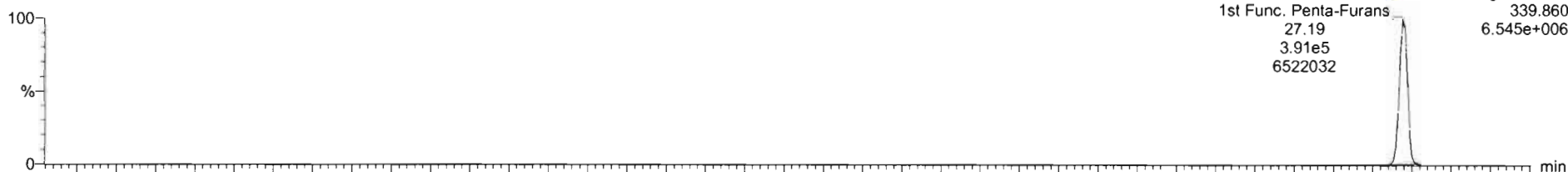
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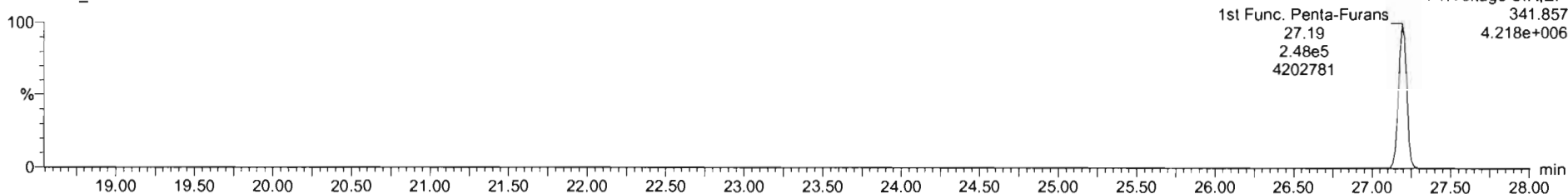
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1st Func. Penta-Furans

201216R1_8

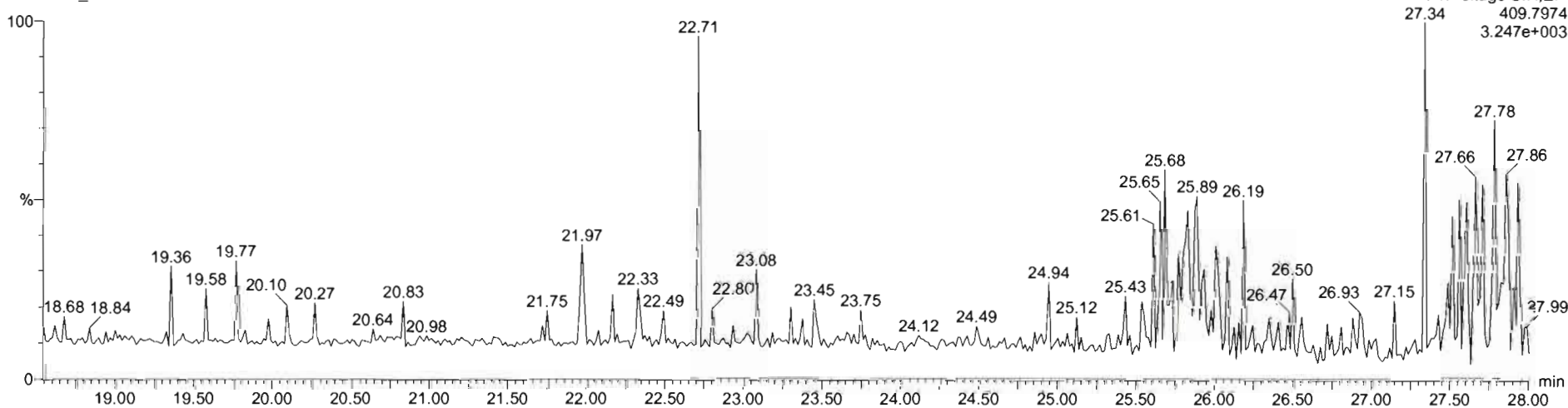


201216R1_8



DPE6

201216R1_8



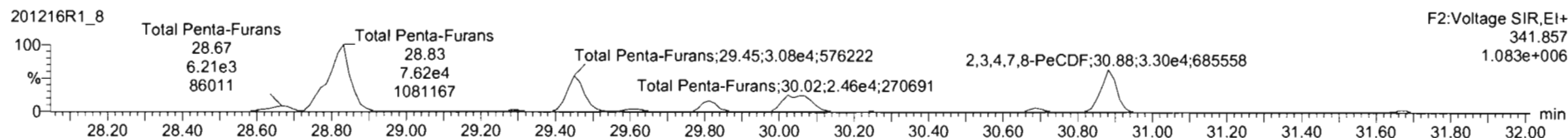
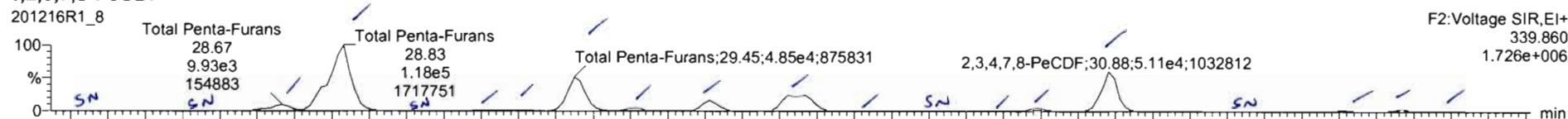
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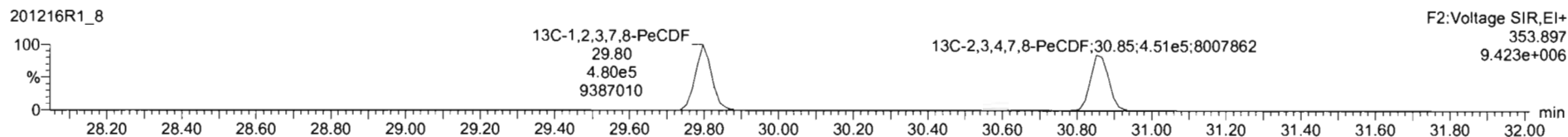
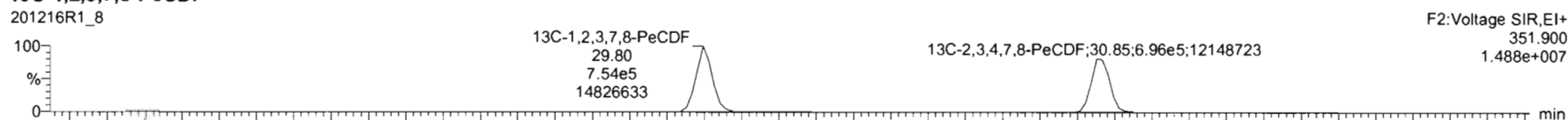
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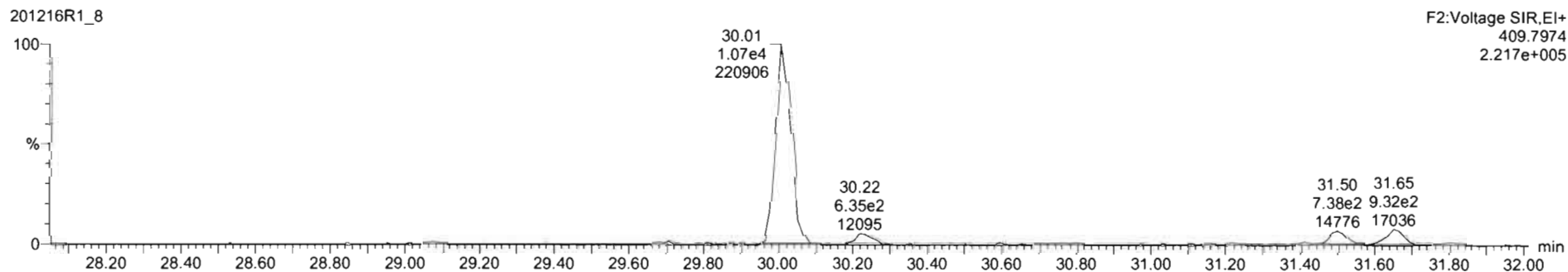
1,2,3,7,8-PeCDF

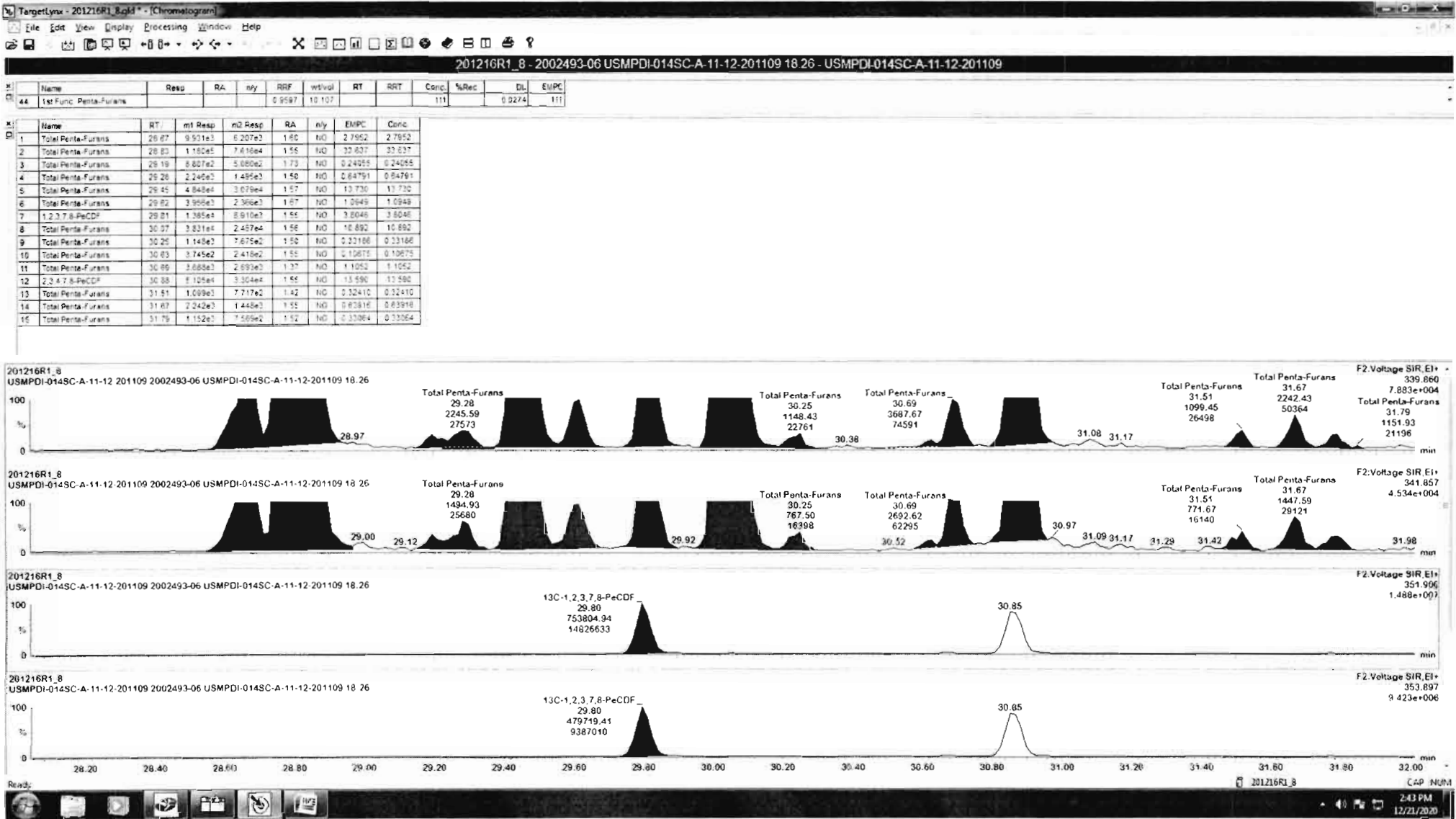


13C-1,2,3,7,8-PeCDF



DPE2



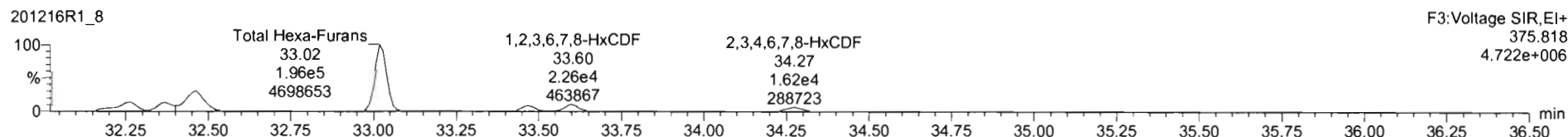
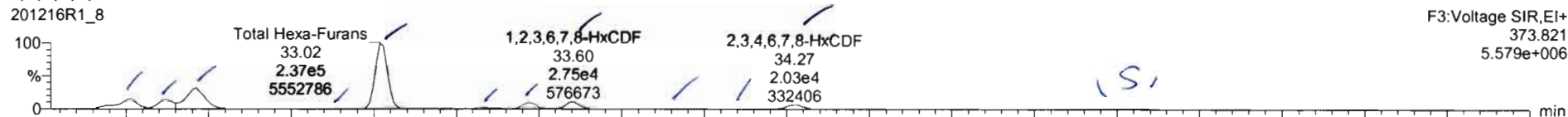


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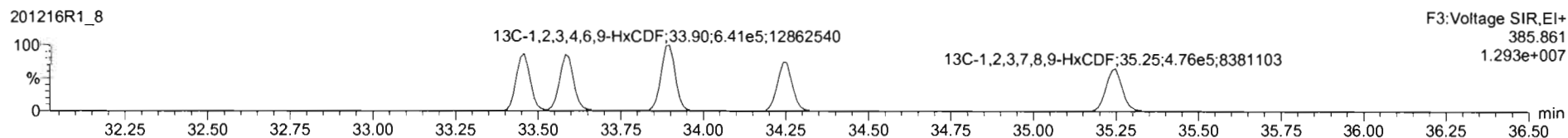
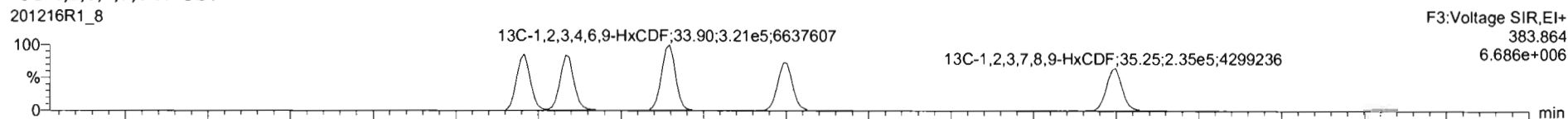
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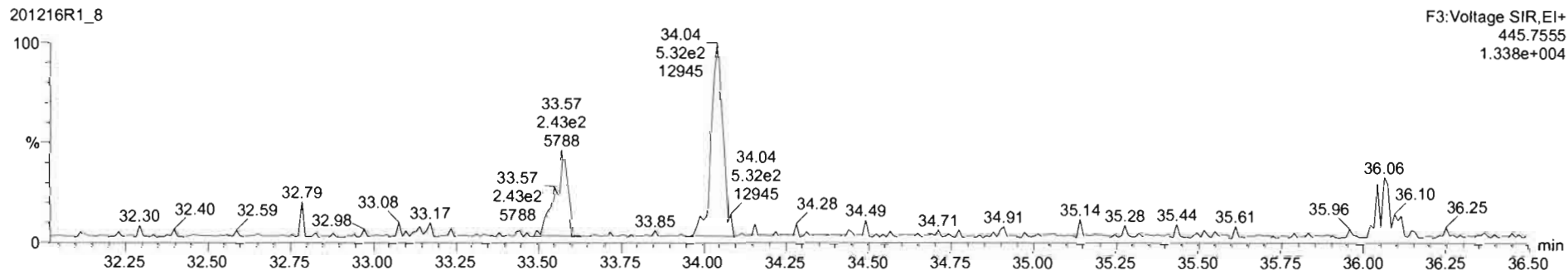
1,2,3,4,7,8-HxCDF

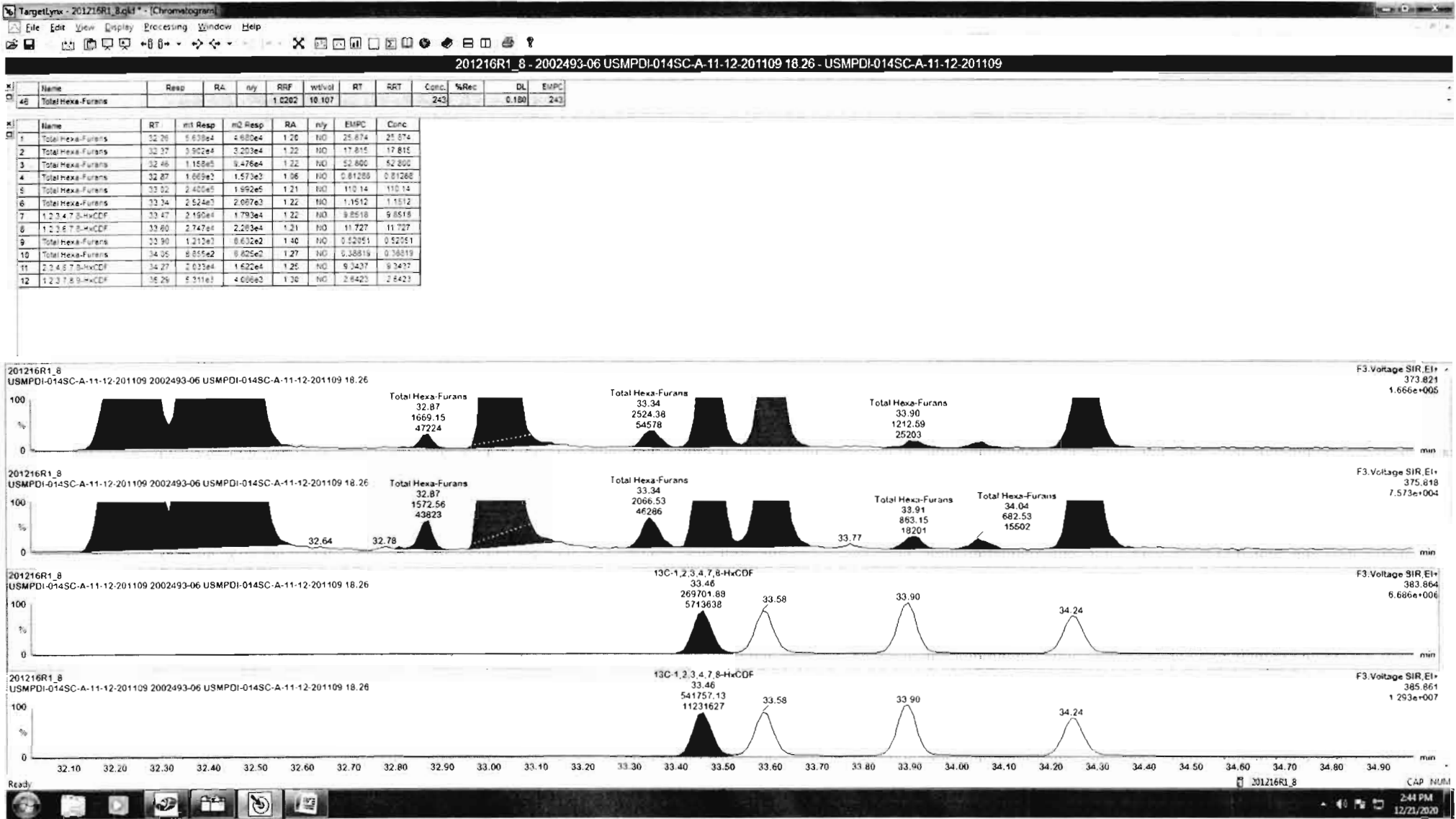


13C-1,2,3,4,7,8-HxCDF



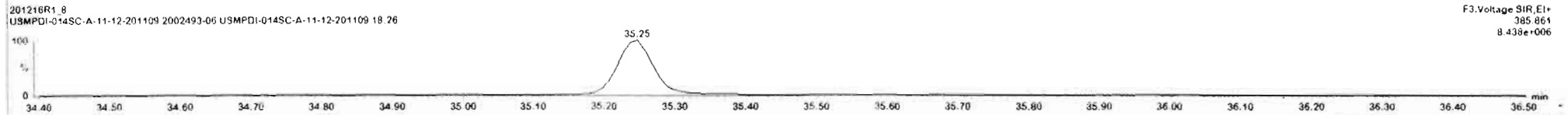
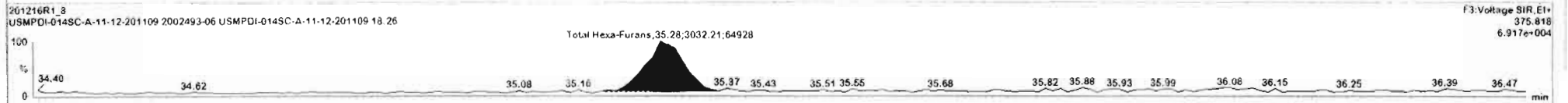
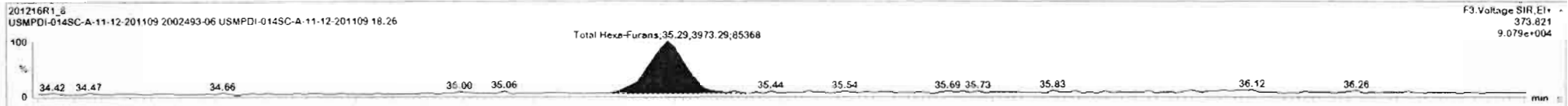
DPE3





Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans			1.0262	10.107			243	0.180		243

Name	RT	mt Resp	m2 Resp	RA	nly	EMPC	Conc.	
1	Total Hexa-Furans	32.26	5.603e4	4.860e4	1.20	NO	25.874	25.874
2	Total Hexa-Furans	32.37	3.902e4	3.203e4	1.22	NO	17.815	17.815
3	Total Hexa-Furans	32.46	1.158e5	9.476e4	1.22	NO	52.800	52.800
4	Total Hexa-Furans	32.87	1.665e3	1.673e3	1.06	NO	0.81288	0.81288
5	Total Hexa-Furans	33.02	2.400e5	1.992e5	1.21	NO	110.14	110.14
6	Total Hexa-Furans	33.34	2.524e1	2.087e3	1.22	NO	1.1512	1.1512
7	1,2,3,4,7,8-HxCDF	33.47	2.190e1	1.793e4	1.22	NO	9.8518	9.8518
8	1,2,3,6,7,8-HxCDF	33.60	2.747e1	2.263e4	1.21	NO	11.727	11.727
9	Total Hexa-Furans	33.90	1.213e3	8.633e2	1.18	NO	0.52051	0.52051
10	Total Hexa-Furans	34.05	8.615e2	6.825e2	1.27	NO	0.38819	0.38819
11	2,3,4,6,7,8-HxCDF	34.27	2.033e4	1.822e4	1.25	NO	9.3437	9.3437
12	1,2,3,7,8,9-HxCDF	36.27	1.061e3	1.033e3	1.06	NO	0.59737	0.59737
13	Total Hexa-Furans	35.26	3.973e3	3.032e3	1.31	NO	1.7587	1.7587

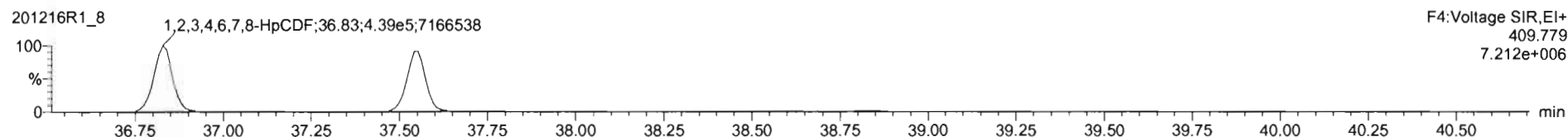


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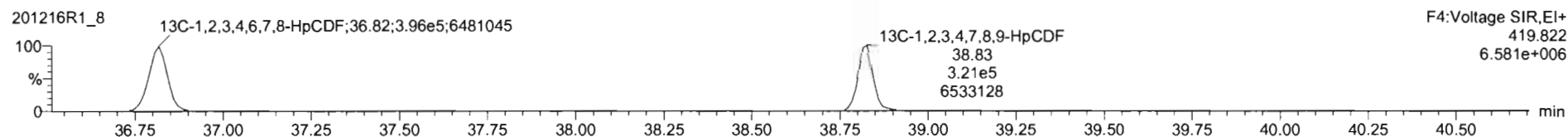
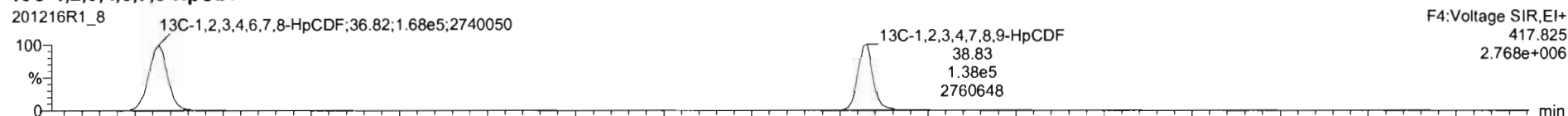
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_8, Date: 16-Dec-2020, Time: 13:46:13, ID: 2002493-06 USMPDI-014SC-A-11-12-201109 18.26, Description: USMPDI-014SC-A-11-12-201109

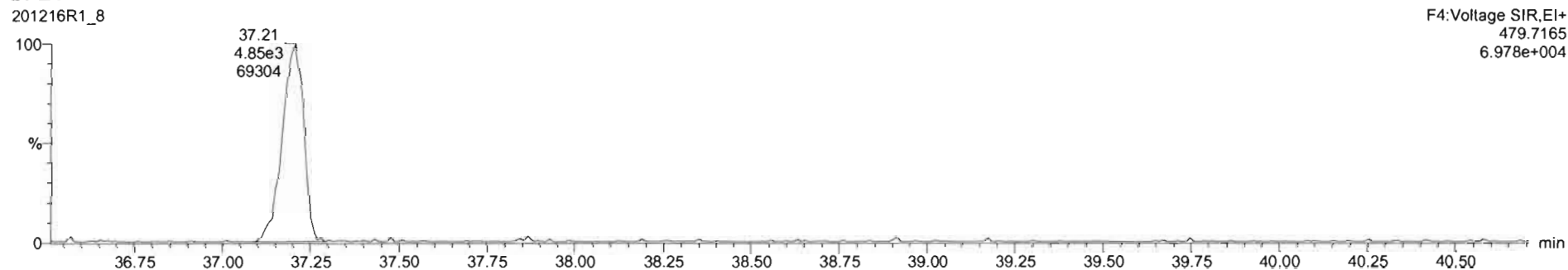
1,2,3,4,6,7,8-HpCDF

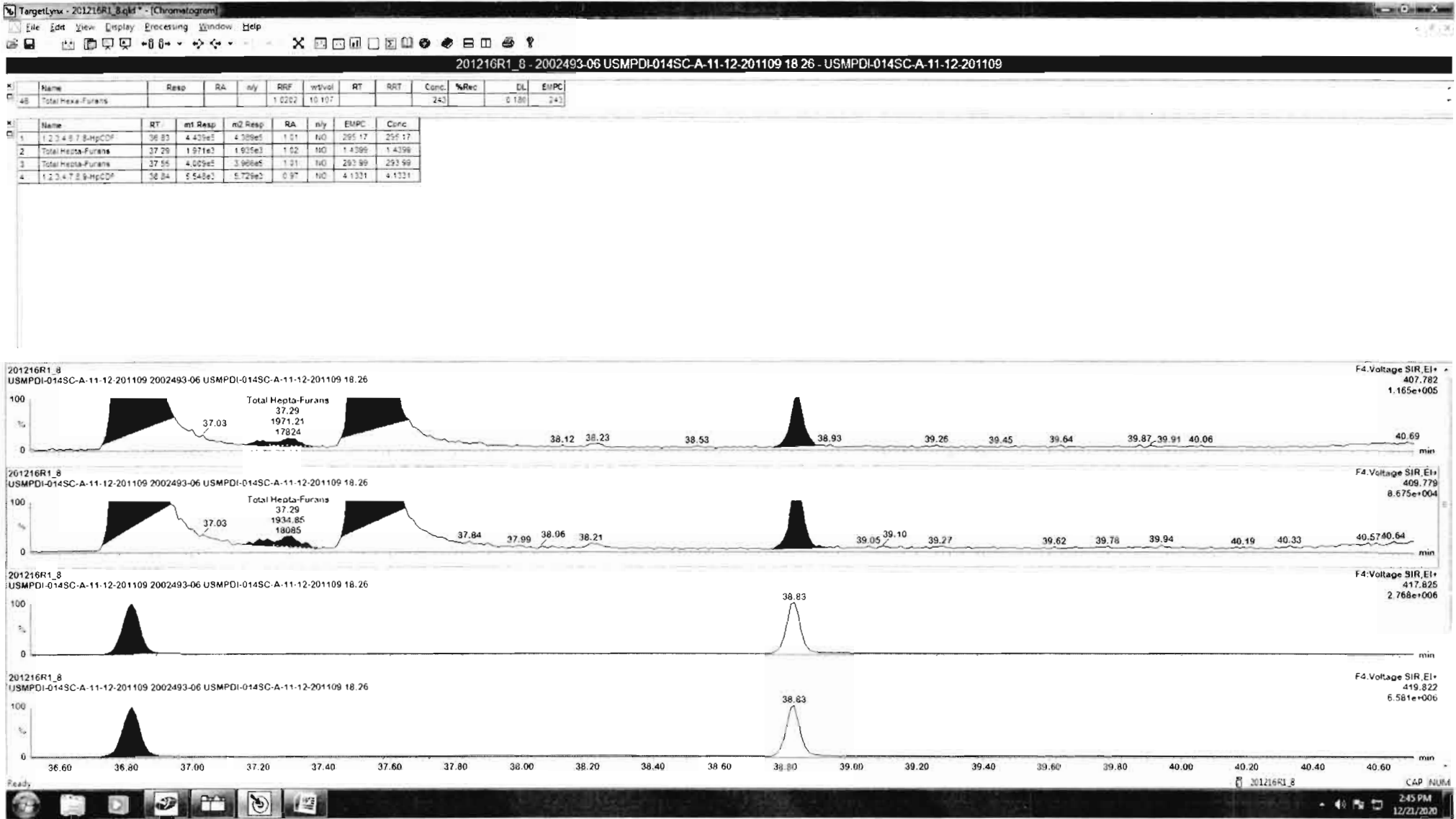


13C-1,2,3,4,6,7,8-HpCDF



DPE4





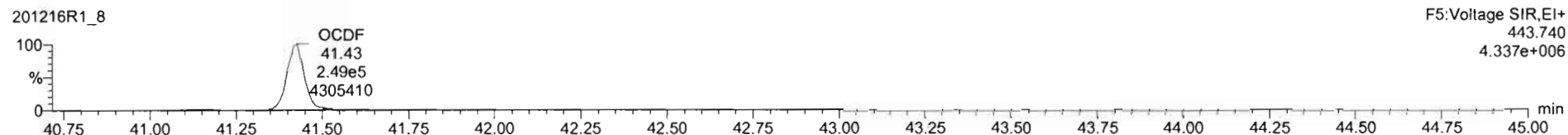
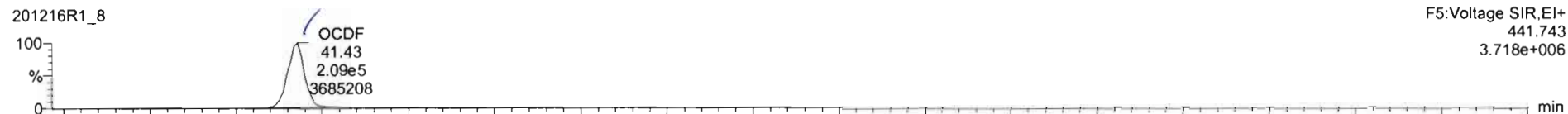
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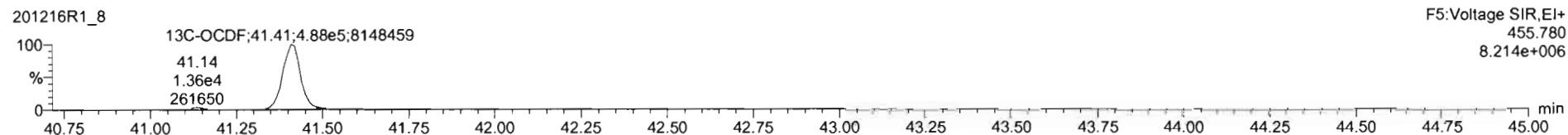
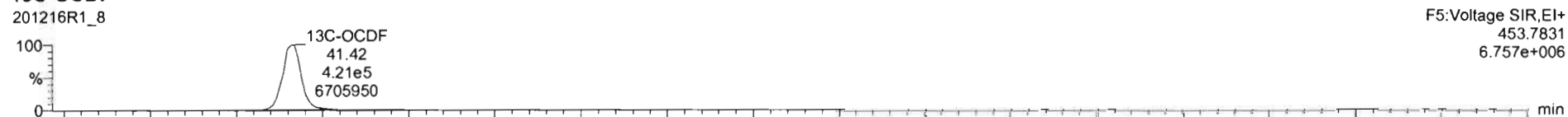
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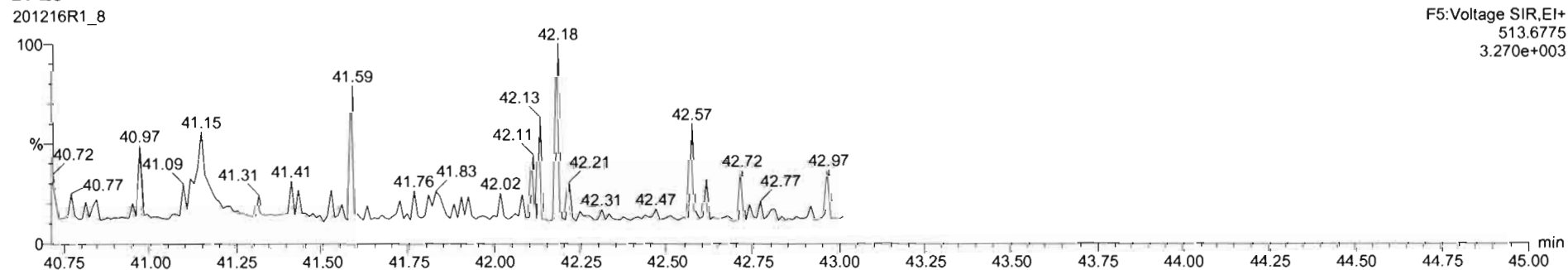
OCDF



13C-OCDF



DPE5

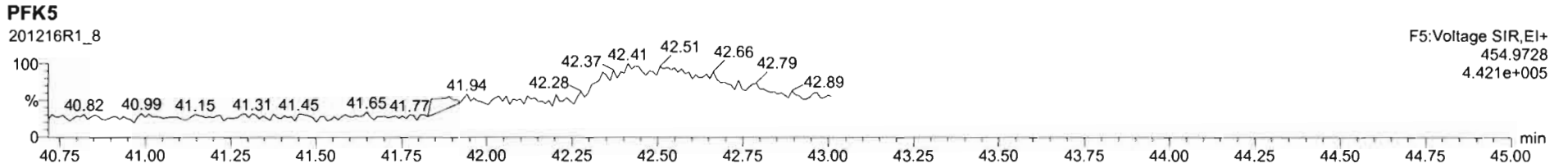
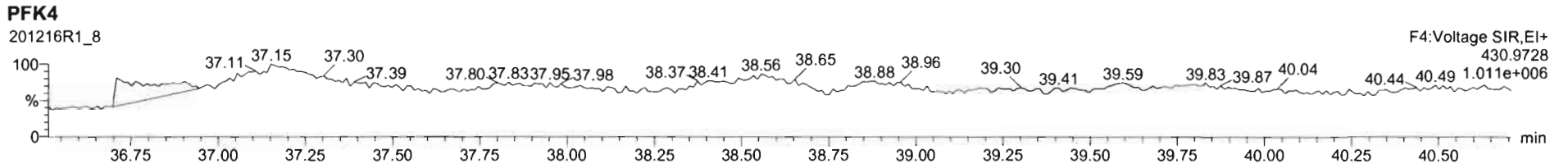
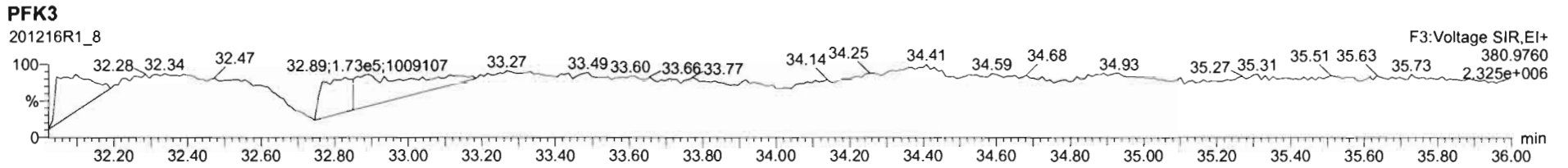
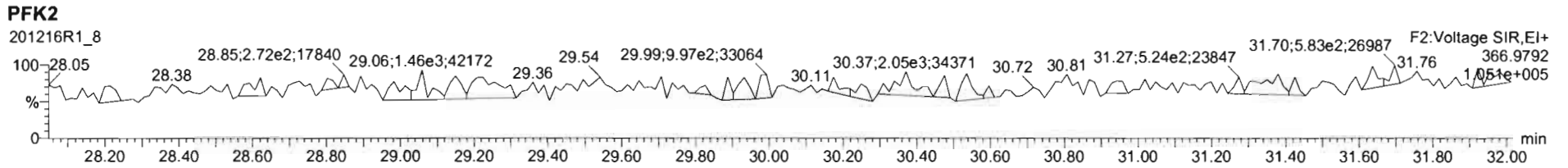
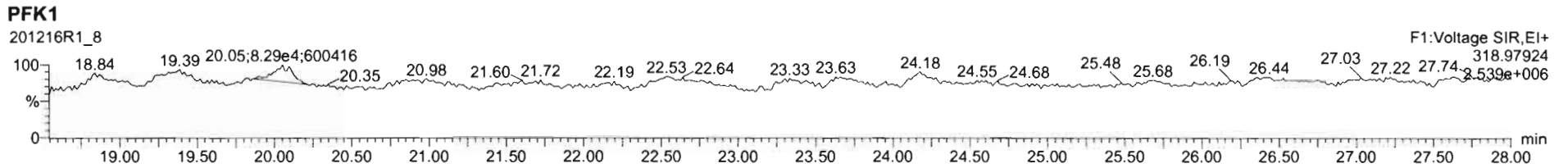


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Dataset: U:\VG12.PRO\Results\201217R4\201217R4_12.qld

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GRB 12/21/2020
ML 12/21/2020

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1	7 OCDD	2.01e6	0.87	NO	0.866	10.107	41.124	41.13	1.000	1.000	7219.5		3.62	7220
2	24 13C-OCDD	1.27e5	0.89	NO	0.496	10.107	41.167	41.12	1.216	1.214	372.72	94.2	1.98	
3	35 37Cl-2,3,7,8-TCDD	6.88e4			1.22	10.107	26.332	26.35	1.030	1.031	77.168	97.5	0.138	
4	36 13C-1,2,3,4-TCDD	1.45e5	0.77	NO	1.00	10.107	25.640	25.57	1.000	1.000	197.89	100	0.615	
5	37 13C-1,2,3,4-TCDF	2.17e5	0.76	NO	1.00	10.107	24.130	24.07	1.000	1.000	197.89	100	0.709	
6	38 13C-1,2,3,4,6,9-HxCDF	1.36e5	0.48	NO	1.00	10.107	33.920	33.87	1.000	1.000	197.89	100	0.807	

Dataset: Untitled

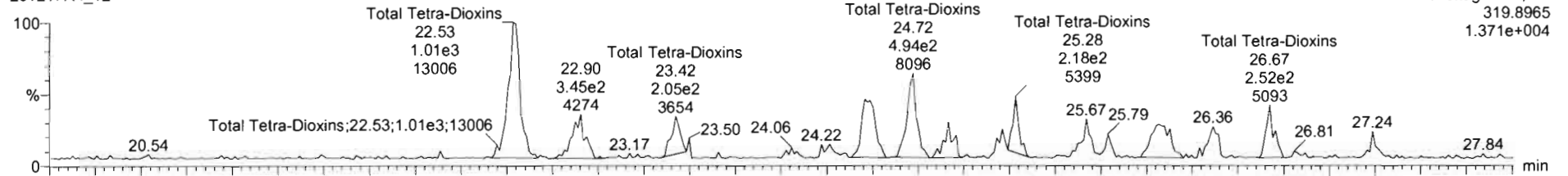
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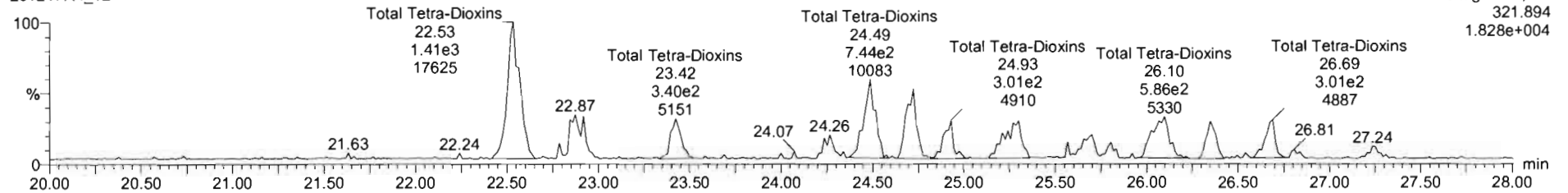
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2,3,7,8-TCDD

201217R4_12

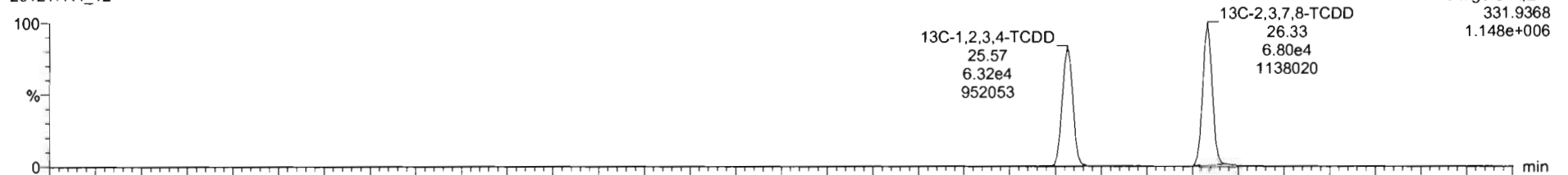


201217R4_12

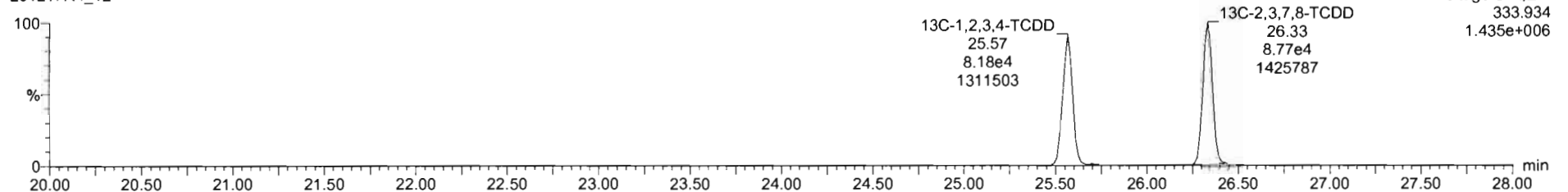


13C-2,3,7,8-TCDD

201217R4_12



201217R4_12



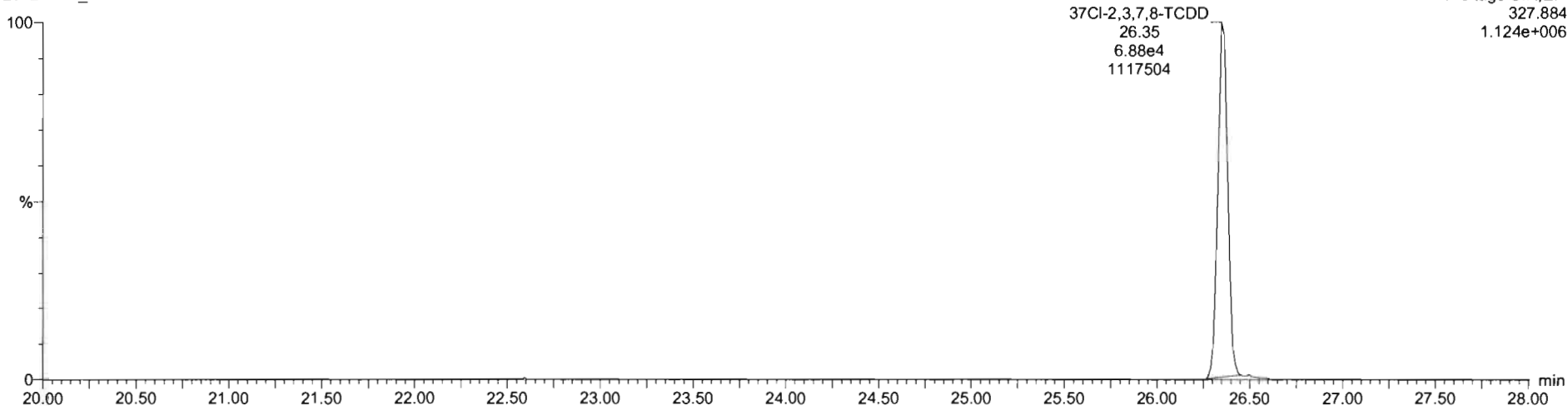
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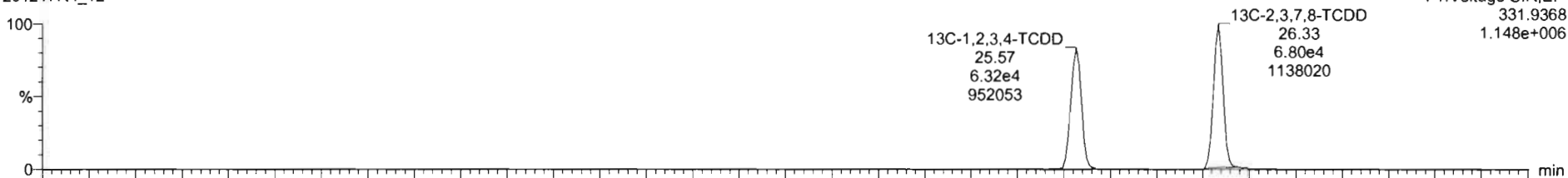
37Cl-2,3,7,8-TCDD

201217R4_12

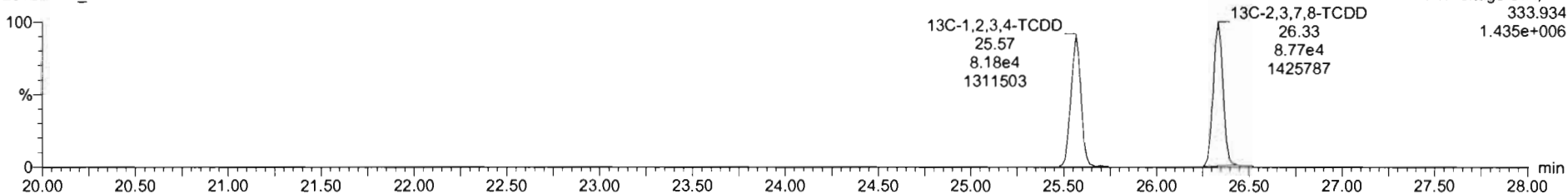


13C-1,2,3,4-TCDD

201217R4_12



201217R4_12



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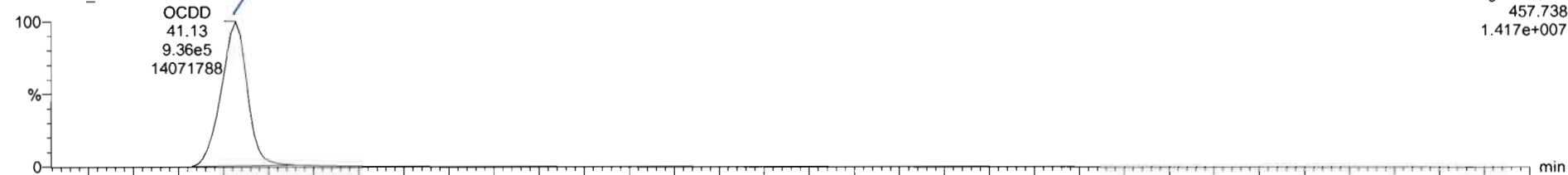
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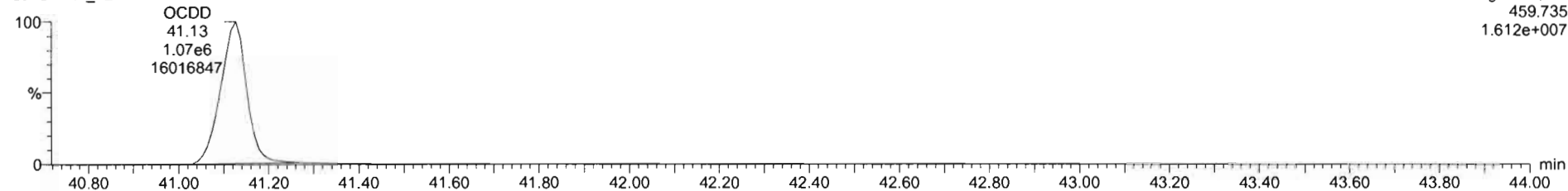
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OCDD

201217R4_12

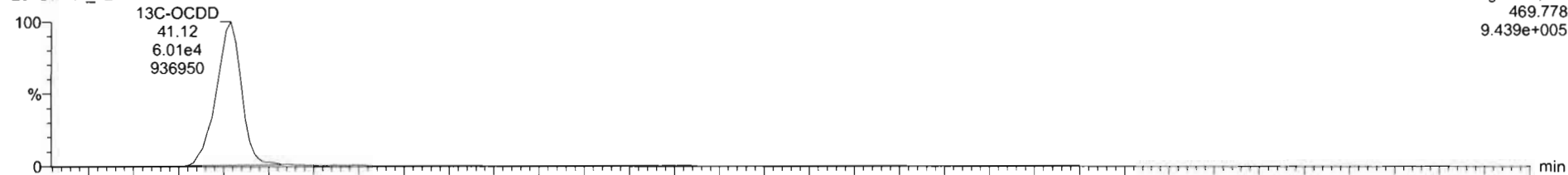


201217R4_12

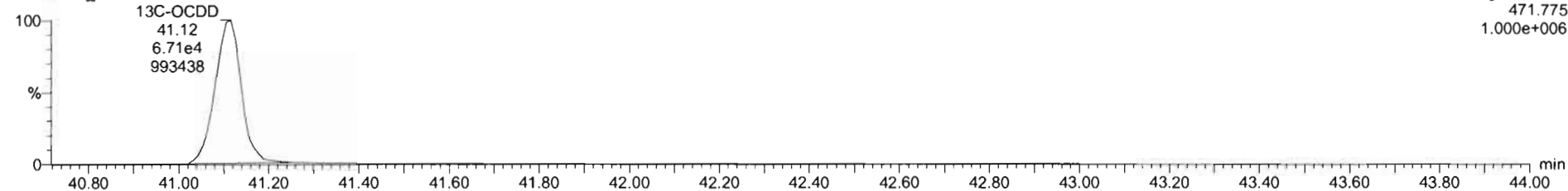


13C-OCDD

201217R4_12



201217R4_12



Dataset: Untitled

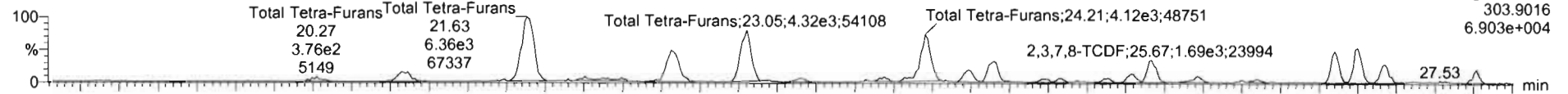
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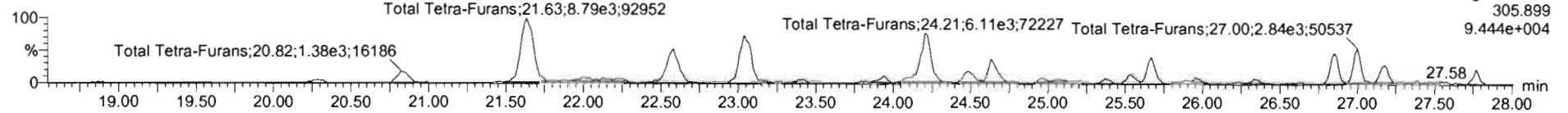
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2,3,7,8-TCDF

201217R4_12

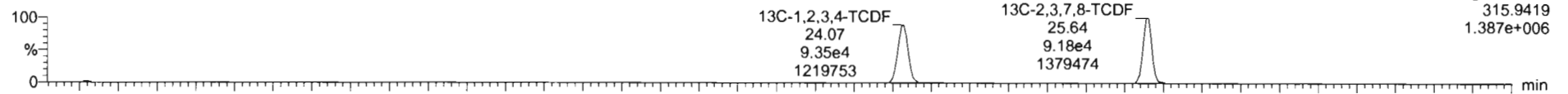


201217R4_12

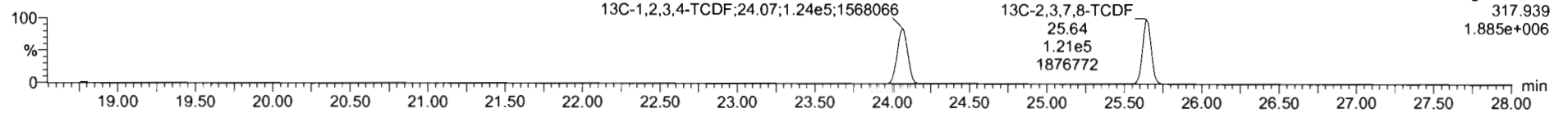


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201217R4_12

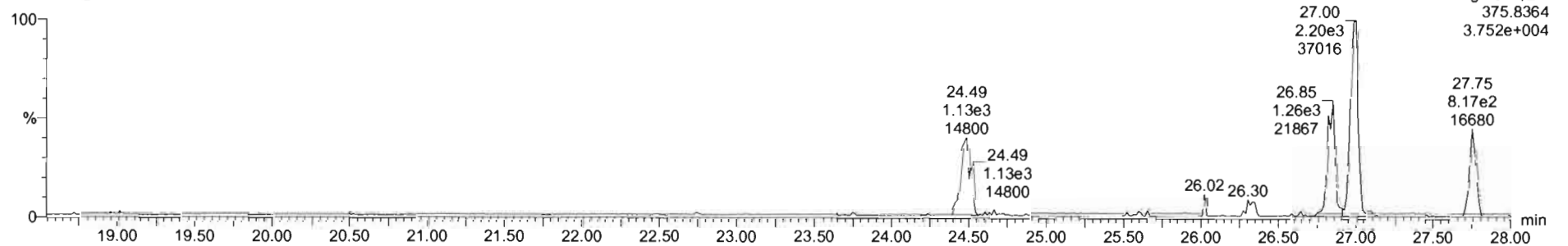


201217R4_12



DPE1

201217R4_12

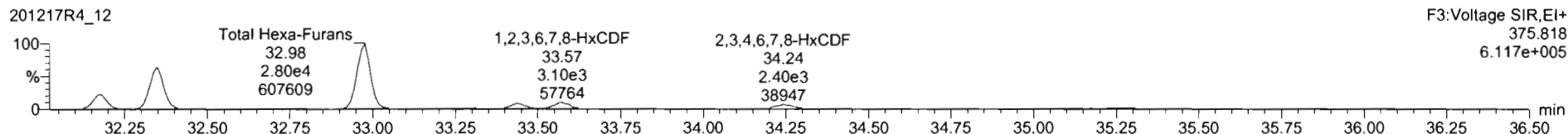
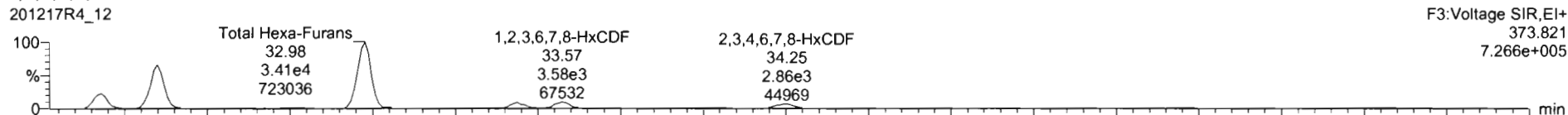


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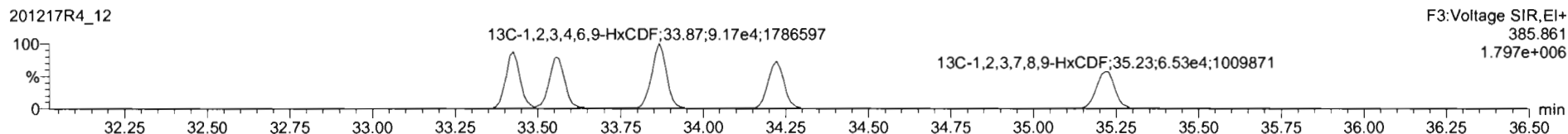
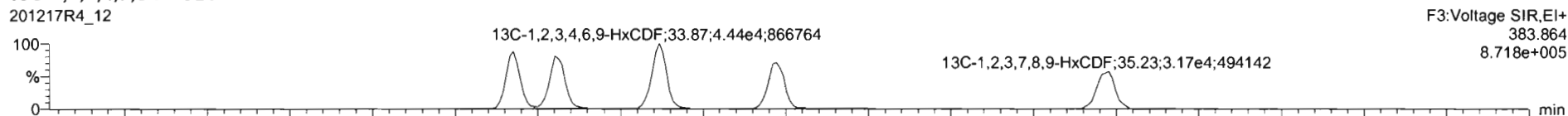
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Name: 201217R4_12, Date: 17-Dec-2020, Time: 22:40:14, ID: 2002493-06@10X USMPDI-014SC-A-11-12-201109 18.26, Description: USMPDI-014SC-A-11-12-201109

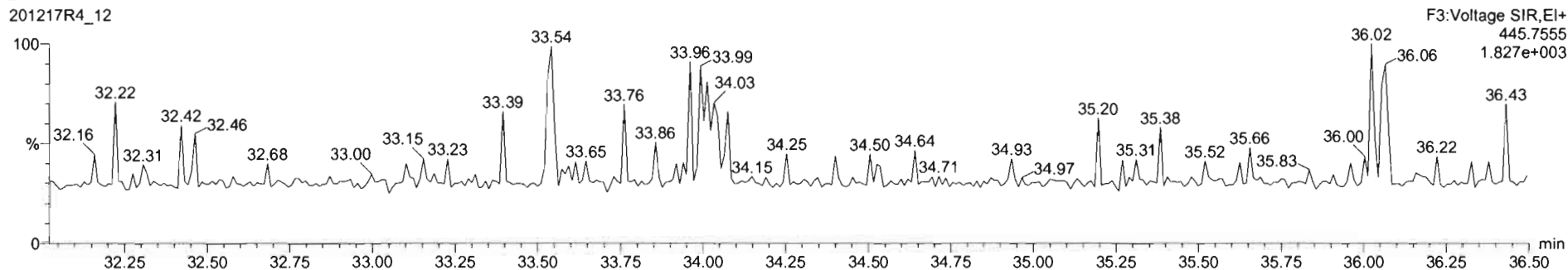
1,2,3,4,7,8-HxCDF



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



DPE3



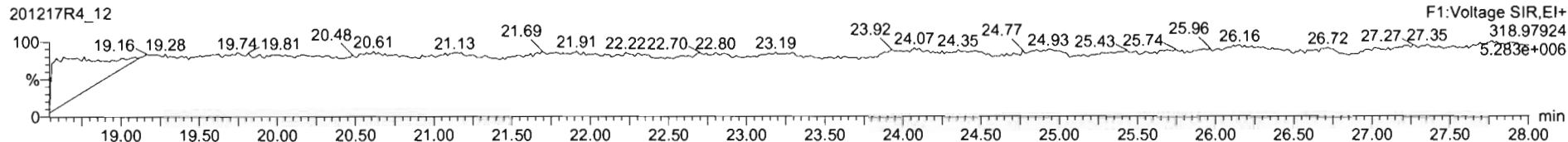
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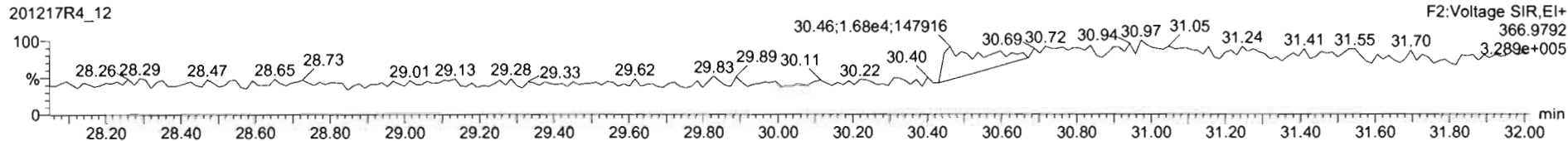
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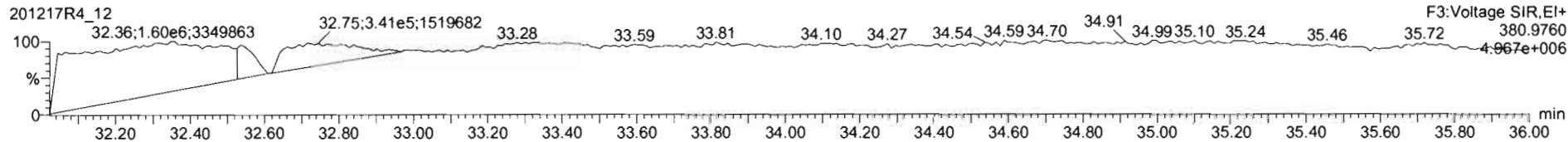
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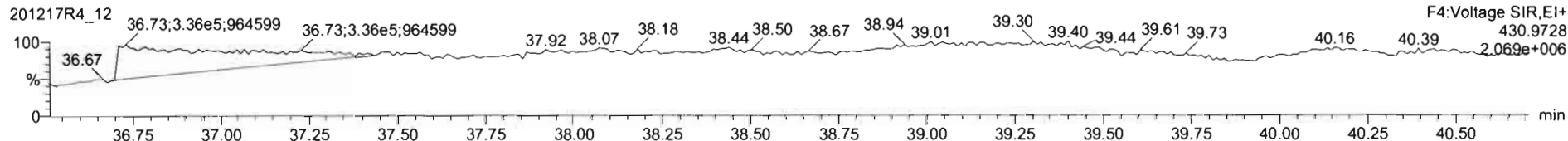
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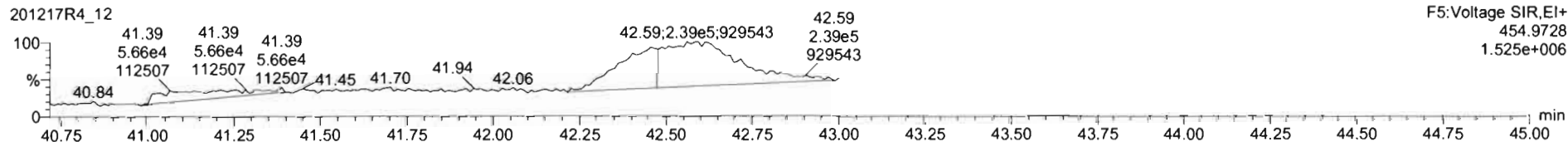
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_9.qld

Last Altered: Monday, December 21, 2020 3:16:56 PM Pacific Standard Time
Printed: Monday, December 21, 2020 3:17:18 PM Pacific Standard Time

GPB 12/21/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

*M.L.
12/21/2020*

Name: 201216R1_9, Date: 16-Dec-2020, Time: 14:31:33, ID: 2002493-07 USMPDI-014SC-A-12-13-201109 18.09, Description: USMPDI-014SC-A-12-13-201109

#	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	2.22e3	0.45	YES	0.980	10.141	26.396	26.39	1.001	1.001	0.34657		0.0348	0.247
2	2 1,2,3,7,8-PeCDD	7.08e3	0.59	NO	0.932	10.141	31.079	31.06	1.001	1.000	1.4147		0.0852	1.41
3	3 1,2,3,4,7,8-HxCDD	3.43e3	1.32	NO	1.02	10.141	34.378	34.37	1.001	1.000	0.81300		0.184	0.813
4	4 1,2,3,6,7,8-HxCDD	4.84e4	1.27	NO	0.902	10.141	34.494	34.49	1.001	1.001	11.489		0.188	11.5
5	5 1,2,3,7,8,9-HxCDD	1.28e4	1.18	NO	0.954	10.141	34.755	34.77	1.000	1.001	2.9337		0.183	2.93
6	6 1,2,3,4,6,7,8-HpCDD	6.14e5	1.02	NO	0.918	10.141	38.222	38.22	1.000	1.000	175.84		0.816	176
7	7 OCDD	5.72e6	0.88	NO	0.866	10.141	41.134	41.14	1.000	1.000	2306.0		0.910	2310
8	8 2,3,7,8-TCDF	8.39e3	0.72	NO	0.848	10.141	25.672	25.70	1.000	1.001	1.2406		0.0751	1.24
9	9 1,2,3,7,8-PeCDF	1.51e4	1.53	NO	0.960	10.141	29.799	29.81	1.000	1.001	2.1792		0.129	2.18
10	10 2,3,4,7,8-PeCDF	1.15e5	1.55	NO	1.07	10.141	30.874	30.88	1.001	1.001	16.227		0.127	16.2
11	11 1,2,3,4,7,8-HxCDF	5.21e4	1.22	NO	0.986	10.141	33.457	33.46	1.000	1.000	11.379		0.329	11.4
12	12 1,2,3,6,7,8-HxCDF	2.11e5	1.23	NO	1.04	10.141	33.603	33.59	1.001	1.000	43.844		0.321	43.8
13	13 2,3,4,6,7,8-HxCDF	8.63e4	1.23	NO	1.02	10.141	34.263	34.27	1.001	1.001	19.155		0.363	19.2
14	14 1,2,3,7,8,9-HxCDF	6.24e3	1.16	NO	0.991	10.141	35.248	35.27	1.000	1.001	1.5088		0.414	1.51
15	15 1,2,3,4,6,7,8-HpCDF	3.11e6	1.01	NO	1.05	10.141	36.824	36.83	1.000	1.001	890.28		0.493	890
16	16 1,2,3,4,7,8,9-HpCDF	2.02e4	0.97	NO	1.18	10.141	38.839	38.84	1.000	1.000	6.5861		0.417	6.59
17	17 OCDF	8.18e5	0.84	NO	0.896	10.141	41.417	41.42	1.000	1.000	328.74		0.385	329
18	18 13C-2,3,7,8-TCDD	1.29e6	0.77	NO	1.06	10.141	26.368	26.36	1.030	1.030	224.52	114	0.130	
19	19 13C-1,2,3,7,8-PeCDD	1.06e6	0.63	NO	0.785	10.141	31.211	31.05	1.219	1.213	248.12	126	0.177	
20	20 13C-1,2,3,4,7,8-HxCDD	8.16e5	1.27	NO	0.621	10.141	34.348	34.36	1.014	1.014	276.87	140	0.374	
21	21 13C-1,2,3,6,7,8-HxCDD	9.20e5	1.25	NO	0.734	10.141	34.470	34.47	1.017	1.017	263.86	134	0.316	
22	22 13C-1,2,3,7,8,9-HxCDD	9.03e5	1.24	NO	0.723	10.141	34.755	34.74	1.026	1.025	263.14	133	0.321	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.51e5	1.05	NO	0.568	10.141	38.255	38.21	1.129	1.128	278.31	141	0.900	
24	24 13C-OCDD	1.13e6	0.89	NO	0.496	10.141	41.193	41.13	1.216	1.214	479.28	122	0.647	
25	25 13C-2,3,7,8-TCDF	1.57e6	0.77	NO	0.919	10.141	25.667	25.67	1.003	1.003	233.56	118	0.150	
26	26 13C-1,2,3,7,8-PeCDF	1.43e6	1.57	NO	0.715	10.141	29.921	29.80	1.169	1.164	272.19	138	0.339	
27	27 13C-2,3,4,7,8-PeCDF	1.31e6	1.57	NO	0.689	10.141	31.008	30.85	1.212	1.205	259.78	132	0.352	
28	28 13C-1,2,3,4,7,8-HxCDF	9.16e5	0.50	NO	0.873	10.141	33.453	33.45	0.987	0.987	220.78	112	0.364	
29	29 13C-1,2,3,6,7,8-HxCDF	9.16e5	0.50	NO	0.933	10.141	33.582	33.58	0.991	0.991	206.49	105	0.341	
30	30 13C-2,3,4,6,7,8-HxCDF	8.71e5	0.50	NO	0.843	10.141	34.250	34.24	1.011	1.010	217.35	110	0.378	
31	31 13C-1,2,3,7,8,9-HxCDF	8.23e5	0.51	NO	0.780	10.141	35.249	35.24	1.040	1.040	222.16	113	0.408	

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_9.qld

Last Altered: Monday, December 21, 2020 3:16:56 PM Pacific Standard Time

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Name: 201216R1_9, Date: 16-Dec-2020, Time: 14:31:33, ID: 2002493-07 USMPDI-014SC-A-12-13-201109 18.09, Description: USMPDI-014SC-A-12-13-201109

#	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	6.57e5	0.42	NO	0.726	10.141	36.825	36.81	1.087	1.086	190.29	96.5	0.476	
33	13C-1,2,3,4,7,8,9-HpCDF	5.14e5	0.43	NO	0.491	10.141	38.835	38.83	1.146	1.146	220.47	112	0.704	
34	13C-OCDF	1.10e6	0.89	NO	0.565	10.141	41.410	41.41	1.222	1.222	407.93	103	0.454	
35	37Cl-2,3,7,8-TCDD	5.57e5			1.22	10.141	26.363	26.38	1.030	1.031	84.067	107	0.109	
36	13C-1,2,3,4-TCDD	1.07e6	0.78	NO	1.00	10.141	25.640	25.59	1.000	1.000	197.21	100	0.138	
37	13C-1,2,3,4-TCDF	1.44e6	0.78	NO	1.00	10.141	24.130	24.10	1.000	1.000	197.21	100	0.137	
38	13C-1,2,3,4,6,9-HxCDF	9.37e5	0.50	NO	1.00	10.141	33.920	33.89	1.000	1.000	197.21	100	0.318	
39	Total Tetra-Dioxins				0.980	10.141	24.620		0.000		6.6776		0.0348	7.17
40	Total Penta-Dioxins				0.932	10.141	29.960		0.000		21.260		0.0852	25.2
41	Total Hexa-Dioxins				0.902	10.141	33.635		0.000		124.41		0.196	124
42	Total Hepta-Dioxins				0.918	10.141	37.640		0.000		450.81		0.816	451
43	Total Tetra-Furans				0.848	10.141	23.610		0.000		83.676		0.0751	83.7 P
44	1st Func. Penta-Furans				0.960	10.141	26.930		0.000		163.34		0.0268	163
45	Total Penta-Furans				0.960	10.141	29.275		0.000		95.055		0.135	95.1 P
46	Total Hexa-Furans				1.02	10.141	33.555		0.000		667.74		0.351	668 P
47	Total Hepta-Furans				1.05	10.141	37.835		0.000		1693.1		0.482	1690

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_9.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_9, Date: 16-Dec-2020, Time: 14:31:33, ID: 2002493-07 USMPDI-014SC-A-12-13-201109 18.09, Description: USMPDI-014SC-A-12-13-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.58	5.190e4	7.586e4	3.981e3	5.660e3	0.70	NO	9.640e3	1.5037	1.5037	0.0348
2	Total Tetra-Dioxins	22.93	2.237e4	2.979e4	1.941e3	2.645e3	0.73	NO	4.586e3	0.71533	0.71533	0.0348
3	Total Tetra-Dioxins	23.47	2.025e4	2.906e4	1.705e3	2.316e3	0.74	NO	4.021e3	0.62713	0.62713	0.0348
4	Total Tetra-Dioxins	24.31	1.191e4	1.728e4	8.348e2	1.075e3	0.78	NO	1.910e3	0.29790	0.29790	0.0348
5	Total Tetra-Dioxins	24.53	2.665e4	3.827e4	2.167e3	2.702e3	0.80	NO	4.870e3	0.75957	0.75957	0.0348
6	Total Tetra-Dioxins	24.75	3.455e4	5.286e4	2.481e3	3.449e3	0.72	NO	5.930e3	0.92498	0.92498	0.0348
7	Total Tetra-Dioxins	24.94	1.070e4	1.223e4	6.525e2	8.567e2	0.76	NO	1.509e3	0.23540	0.23540	0.0348
8	Total Tetra-Dioxins	25.24	1.273e4	1.599e4	8.493e2	9.827e2	0.86	NO	1.832e3	0.28576	0.28576	0.0348
9	Total Tetra-Dioxins	25.31	1.368e4	2.206e4	9.029e2	1.242e3	0.73	NO	2.145e3	0.33456	0.33456	0.0348
10	Total Tetra-Dioxins	25.65	7.142e3	4.834e3	2.727e2	3.192e2	0.85	NO	5.919e2	0.092323	0.092323	0.0348
11	Total Tetra-Dioxins	25.68	1.319e4	1.038e4	6.933e2	7.689e2	0.90	YES	0.000e0	0.00000	0.21227	0.0348
12	Total Tetra-Dioxins	26.07	1.243e4	1.857e4	1.316e3	1.615e3	0.81	NO	2.930e3	0.45706	0.45706	0.0348
13	2,3,7,8-TCDD	26.39	9.748e3	2.260e4	6.877e2	1.534e3	0.45	YES	2.222e3	0.00000	0.24656	0.0348
14	Total Tetra-Dioxins	26.72	1.209e4	2.075e4	8.694e2	1.199e3	0.73	NO	2.068e3	0.32258	0.32258	0.0348
15	Total Tetra-Dioxins	26.84	1.575e3	2.957e3	8.657e1	1.588e2	0.55	YES	0.000e0	0.00000	0.031041	0.0348
16	Total Tetra-Dioxins	27.28	5.702e3	9.201e3	3.452e2	4.327e2	0.80	NO	7.780e2	0.12135	0.12135	0.0348

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_9.qld

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Name: 201216R1_9, Date: 16-Dec-2020, Time: 14:31:33, ID: 2002493-07 USMPDI-014SC-A-12-13-201109 18.09, Description: USMPDI-014SC-A-12-13-201109

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.80	2.443e5	4.247e5	1.871e4	3.077e4	0.61	NO	4.948e4	9.8840	9.8840	0.0852
2	Total Penta-Dioxins	29.28	3.557e4	5.497e4	1.708e3	3.186e3	0.54	NO	4.893e3	0.97746	0.97746	0.0852
3	Total Penta-Dioxins	29.81	2.000e5	3.184e5	1.020e4	1.504e4	0.68	NO	2.524e4	5.0424	5.0424	0.0852
4	Total Penta-Dioxins	30.01	7.637e4	1.281e5	4.624e3	7.665e3	0.60	NO	0.000e0	0.00000	2.4548	0.0852
5	Total Penta-Dioxins	30.02	6.769e4	1.281e5	2.644e3	4.696e3	0.56	NO	0.000e0	0.00000	1.4661	0.0852
6	Total Penta-Dioxins	30.29	7.229e4	1.104e5	4.863e3	7.578e3	0.64	NO	1.244e4	2.4851	2.4851	0.0852
7	Total Penta-Dioxins	30.60	1.167e4	2.020e4	6.827e2	1.206e3	0.57	NO	1.889e3	0.37732	0.37732	0.0852
8	1,2,3,7,8-PeCDD	31.06	4.639e4	7.806e4	2.631e3	4.451e3	0.59	NO	7.082e3	1.4147	1.4147	0.0852
9	Total Penta-Dioxins	31.15	1.950e4	2.953e4	7.515e2	1.363e3	0.55	NO	2.114e3	0.42232	0.42232	0.0852
10	Total Penta-Dioxins	31.42	2.391e4	3.938e4	1.261e3	2.025e3	0.62	NO	3.286e3	0.65640	0.65640	0.0852

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	2.120e6	1.767e6	9.902e4	8.075e4	1.23	NO	1.798e5	44.642	44.642	0.196
2	Total Hexa-Dioxins	33.32	2.391e5	1.938e5	1.184e4	9.416e3	1.26	NO	2.126e4	5.2787	5.2787	0.196
3	Total Hexa-Dioxins	33.62	2.057e6	1.683e6	1.289e5	1.037e5	1.24	NO	2.326e5	57.756	57.756	0.196
4	Total Hexa-Dioxins	33.70	4.783e4	4.012e4	2.239e3	1.861e3	1.20	NO	4.100e3	1.0182	1.0182	0.196
5	1,2,3,4,7,8-HxCDD	34.37	4.224e4	3.288e4	1.955e3	1.478e3	1.32	NO	3.433e3	0.81300	0.81300	0.184
6	1,2,3,6,7,8-HxCDD	34.49	5.272e5	4.061e5	2.704e4	2.134e4	1.27	NO	4.838e4	11.489	11.489	0.188
7	Total Hexa-Dioxins	34.65	1.630e4	1.893e4	1.004e3	9.394e2	1.07	NO	1.943e3	0.48252	0.48252	0.196
8	1,2,3,7,8,9-HxCDD	34.77	1.343e5	1.100e5	6.934e3	5.890e3	1.18	NO	1.282e4	2.9337	2.9337	0.183

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.21	7.717e6	7.557e6	4.830e5	4.779e5	1.01	NO	9.609e5	274.97	274.97	0.816
2	1,2,3,4,6,7,8-HpCDD	38.22	6.259e6	6.106e6	3.099e5	3.046e5	1.02	NO	6.145e5	175.84	175.84	0.816

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_9.qld

Last Altered: Monday, December 21, 2020 3:16:56 PM Pacific Standard Time

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Name: 201216R1_9, Date: 16-Dec-2020, Time: 14:31:33, ID: 2002493-07 USMPDI-014SC-A-12-13-201109 18.09, Description: USMPDI-014SC-A-12-13-201109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.33	3.241e4	4.629e4	3.009e3	3.936e3	0.76	NO	6.945e3	1.0270	1.0270	0.0751
2	Total Tetra-Furans	20.88	9.651e4	1.214e5	8.427e3	1.121e4	0.75	NO	1.964e4	2.9045	2.9045	0.0751
3	Total Tetra-Furans	21.51	8.970e3	1.100e4	4.487e2	5.769e2	0.78	NO	1.026e3	0.15168	0.15168	0.0751
4	Total Tetra-Furans	21.69	6.926e5	9.282e5	6.375e4	8.723e4	0.73	NO	1.510e5	22.328	22.328	0.0751
5	Total Tetra-Furans	21.91	6.581e3	7.670e3	4.731e2	5.395e2	0.88	NO	1.013e3	0.14974	0.14974	0.0751
6	Total Tetra-Furans	22.05	2.502e4	4.473e4	2.613e3	3.622e3	0.72	NO	6.234e3	0.92196	0.92196	0.0751
7	Total Tetra-Furans	22.18	2.349e4	2.870e4	1.944e3	2.458e3	0.79	NO	4.402e3	0.65096	0.65096	0.0751
8	Total Tetra-Furans	22.28	2.227e4	2.908e4	1.948e3	2.956e3	0.66	NO	4.904e3	0.72529	0.72529	0.0751
9	Total Tetra-Furans	22.49	8.379e3	1.047e4	3.679e2	5.574e2	0.66	NO	9.252e2	0.13683	0.13683	0.0751
10	Total Tetra-Furans	22.62	2.643e5	3.648e5	2.354e4	3.259e4	0.72	NO	5.613e4	8.3004	8.3004	0.0751
11	Total Tetra-Furans	23.08	4.159e5	5.897e5	3.481e4	4.739e4	0.73	NO	8.220e4	12.156	12.156	0.0751
12	Total Tetra-Furans	23.19	1.151e4	1.451e4	6.821e2	8.105e2	0.84	NO	1.493e3	0.22074	0.22074	0.0751
13	Total Tetra-Furans	23.44	2.280e4	3.325e4	1.910e3	2.627e3	0.73	NO	4.537e3	0.67097	0.67097	0.0751
14	Total Tetra-Furans	23.88	8.218e3	9.353e3	5.939e2	7.135e2	0.83	NO	1.307e3	0.19335	0.19335	0.0751
15	Total Tetra-Furans	23.98	3.343e4	4.648e4	2.605e3	3.669e3	0.71	NO	6.274e3	0.92789	0.92789	0.0751
16	Total Tetra-Furans	24.13	1.176e4	1.714e4	4.512e2	5.570e2	0.81	NO	1.008e3	0.14910	0.14910	0.0751
17	Total Tetra-Furans	24.25	3.856e5	5.427e5	3.007e4	4.139e4	0.73	NO	7.146e4	10.568	10.568	0.0751
18	Total Tetra-Furans	24.53	1.179e5	1.665e5	8.714e3	1.199e4	0.73	NO	2.070e4	3.0619	3.0619	0.0751
19	Total Tetra-Furans	24.68	6.319e4	9.551e4	4.828e3	6.768e3	0.71	NO	1.160e4	1.7149	1.7149	0.0751
20	Total Tetra-Furans	25.03	1.477e4	1.729e4	9.462e2	1.208e3	0.78	NO	2.154e3	0.31855	0.31855	0.0751
21	Total Tetra-Furans	25.11	2.105e4	1.869e4	1.192e3	1.425e3	0.84	NO	2.617e3	0.38708	0.38708	0.0751
22	Total Tetra-Furans	25.23	1.379e4	1.710e4	9.012e2	1.126e3	0.80	NO	2.027e3	0.29975	0.29975	0.0751
23	Total Tetra-Furans	25.40	2.430e4	3.038e4	1.466e3	2.062e3	0.71	NO	3.529e3	0.52184	0.52184	0.0751
24	Total Tetra-Furans	25.57	4.119e4	5.778e4	2.692e3	3.717e3	0.72	NO	6.409e3	0.94788	0.94788	0.0751
25	2,3,7,8-TCDF	25.70	5.206e4	6.547e4	3.525e3	4.864e3	0.72	NO	8.389e3	1.2406	1.2406	0.0751
26	Total Tetra-Furans	25.93	1.048e4	1.162e4	4.498e2	5.413e2	0.83	NO	9.911e2	0.14658	0.14658	0.0751
27	Total Tetra-Furans	26.01	2.682e4	3.488e4	1.676e3	2.178e3	0.77	NO	3.854e3	0.57001	0.57001	0.0751
28	Total Tetra-Furans	26.27	1.257e4	1.377e4	6.657e2	8.881e2	0.75	NO	1.554e3	0.22979	0.22979	0.0751
29	Total Tetra-Furans	26.38	2.355e4	3.302e4	1.579e3	2.127e3	0.74	NO	3.706e3	0.54805	0.54805	0.0751
30	Total Tetra-Furans	26.88	1.996e5	2.631e5	1.099e4	1.488e4	0.74	NO	2.587e4	3.8256	3.8256	0.0751
31	Total Tetra-Furans	27.03	1.592e5	2.382e5	9.654e3	1.367e4	0.71	NO	2.332e4	3.4492	3.4492	0.0751
32	Total Tetra-Furans	27.21	1.909e5	2.594e5	1.153e4	1.572e4	0.73	NO	2.725e4	4.0293	4.0293	0.0751

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Name: 201216R1_9, Date: 16-Dec-2020, Time: 14:31:33, ID: 2002493-07 USMPDI-014SC-A-12-13-201109 18.09, Description: USMPDI-014SC-A-12-13-201109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
33	Total Tetra-Furans	27.58	9.753e3	1.215e4	6.406e2	7.266e2	0.88	NO	1.367e3	0.20219	0.20219	0.0751

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	27.19	1.171e7	7.485e6	6.639e5	4.236e5	1.57	NO	1.088e6	163.34	163.34	0.0268

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.67	1.728e5	9.946e4	1.025e4	6.842e3	1.50	NO	1.709e4	2.5664	2.5664	0.135
2	Total Penta-Furans	28.82	2.305e6	1.496e6	1.829e5	1.157e5	1.58	NO	2.986e5	44.844	44.844	0.135
3	Total Penta-Furans	29.19	1.553e4	1.083e4	7.931e2	5.736e2	1.38	NO	1.367e3	0.20527	0.20527	0.135
4	Total Penta-Furans	29.27	3.168e4	1.723e4	1.953e3	1.124e3	1.74	NO	3.078e3	0.46224	0.46224	0.135
5	Total Penta-Furans	29.45	1.269e6	7.695e5	6.591e4	4.135e4	1.59	NO	1.073e5	16.109	16.109	0.135
6	Total Penta-Furans	29.60	7.001e4	4.718e4	3.676e3	2.574e3	1.43	NO	6.250e3	0.93865	0.93865	0.135
7	1,2,3,7,8-PeCDF	29.81	1.882e5	1.124e5	9.136e3	5.986e3	1.53	NO	1.512e4	2.1792	2.1792	0.129
8	Total Penta-Furans	30.05	4.499e5	3.061e5	3.677e4	2.440e4	1.51	NO	6.117e4	9.1874	9.1874	0.135
9	Total Penta-Furans	30.23	4.000e4	2.736e4	1.890e3	1.121e3	1.69	NO	3.011e3	0.45219	0.45219	0.135
10	Total Penta-Furans	30.63	1.006e4	5.812e3	4.670e2	2.822e2	1.65	NO	7.492e2	0.11252	0.11252	0.135
11	Total Penta-Furans	30.69	5.307e4	3.566e4	2.534e3	1.689e3	1.50	NO	4.223e3	0.63424	0.63424	0.135
12	2,3,4,7,8-PeCDF	30.88	1.419e6	9.033e5	6.990e4	4.517e4	1.55	NO	1.151e5	16.227	16.227	0.127
13	Total Penta-Furans	31.50	2.825e4	1.717e4	1.292e3	8.035e2	1.61	NO	2.096e3	0.31478	0.31478	0.135
14	Total Penta-Furans	31.67	5.183e4	3.501e4	2.259e3	1.590e3	1.42	NO	3.849e3	0.57806	0.57806	0.135
15	Total Penta-Furans	31.77	2.481e4	1.585e4	9.324e2	6.862e2	1.36	NO	1.619e3	0.24309	0.24309	0.135

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Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.20	4.175e6	3.404e6	1.978e5	1.630e5	1.21	NO	3.608e5	79.137	79.137	0.351
2	Total Hexa-Furans	32.37	9.525e6	7.876e6	4.467e5	3.709e5	1.20	NO	8.175e5	179.30	179.30	0.351
3	Total Hexa-Furans	32.78	8.893e4	7.664e4	3.914e3	3.491e3	1.12	NO	7.405e3	1.6241	1.6241	0.351
4	Total Hexa-Furans	33.00	1.683e7	1.376e7	8.153e5	6.794e5	1.20	NO	1.495e6	327.81	327.81	0.351
5	Total Hexa-Furans	33.33	2.882e4	2.485e4	1.459e3	1.281e3	1.14	NO	2.740e3	0.60088	0.60088	0.351
6	1,2,3,4,7,8-HxCDF	33.46	5.910e5	5.080e5	2.860e4	2.352e4	1.22	NO	5.212e4	11.379	11.379	0.329
7	1,2,3,6,7,8-HxCDF	33.59	2.372e6	1.936e6	1.168e5	9.471e4	1.23	NO	2.115e5	43.844	43.844	0.321 P
8	Total Hexa-Furans	33.91	2.079e4	1.306e4	1.099e3	8.299e2	1.32	NO	1.928e3	0.42295	0.42295	0.351
9	Total Hexa-Furans	34.05	2.182e4	1.956e4	1.056e3	9.411e2	1.12	NO	1.997e3	0.43799	0.43799	0.351 P
10	2,3,4,6,7,8-HxCDF	34.27	8.328e5	6.753e5	4.753e4	3.873e4	1.23	NO	8.626e4	19.155	19.155	0.363
11	1,2,3,7,8,9-HxCDF	35.27	1.216e5	1.014e5	3.358e3	2.883e3	1.16	NO	6.241e3	1.5088	1.5088	0.414
12	Total Hexa-Furans	35.29	1.411e5	1.235e5	6.235e3	5.247e3	1.19	NO	1.148e4	2.5183	2.5183	0.351

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	36.83	2.459e7	2.448e7	1.563e6	1.547e6	1.01	NO	3.111e6	890.28	890.28	0.493
2	Total Hepta-Furans	37.55	2.016e7	1.996e7	1.244e6	1.237e6	1.01	NO	2.481e6	796.22	796.22	0.482
3	1,2,3,4,7,8,9-HpCDF	38.84	1.964e5	2.132e5	9.949e3	1.025e4	0.97	NO	2.020e4	6.5861	6.5861	0.417

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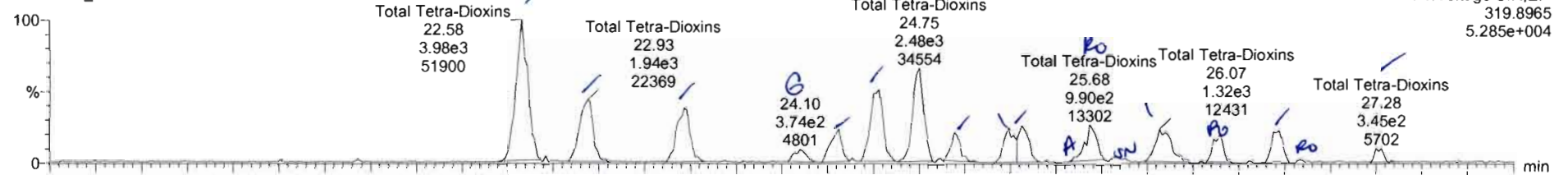
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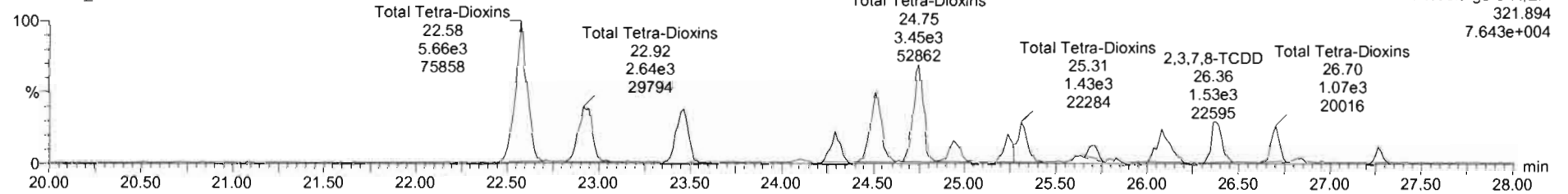
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2,3,7,8-TCDD

201216R1_9

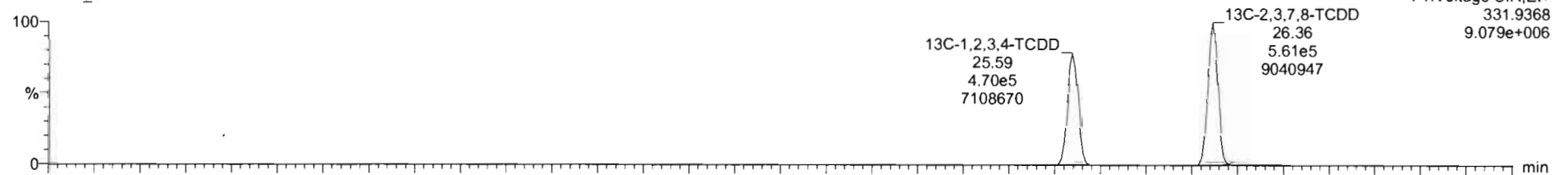


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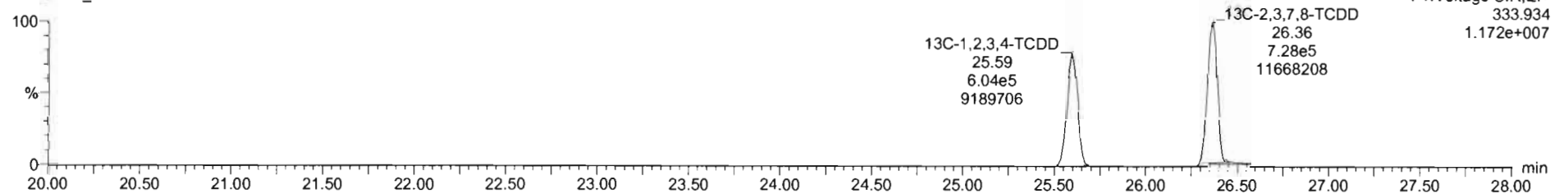


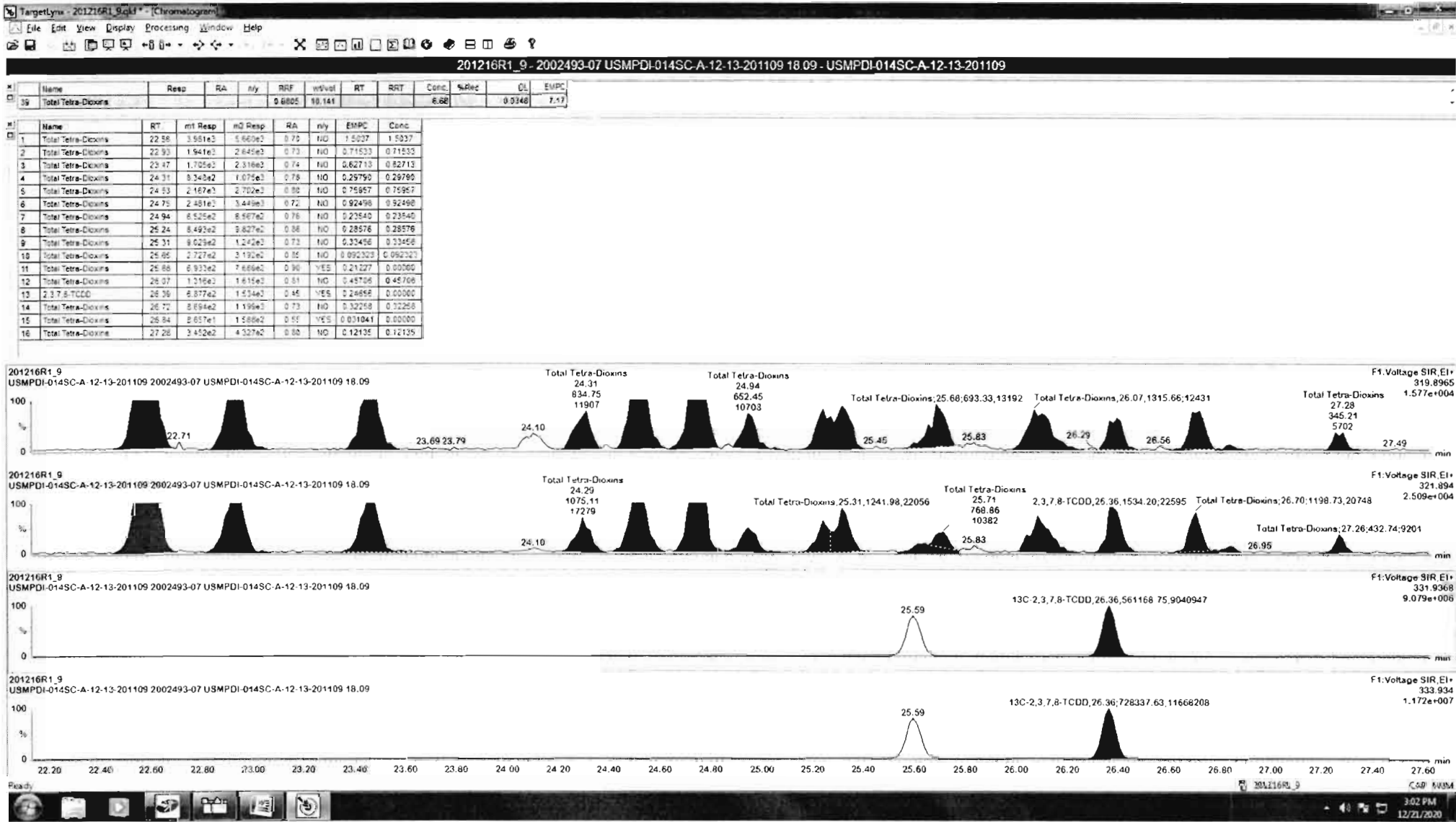
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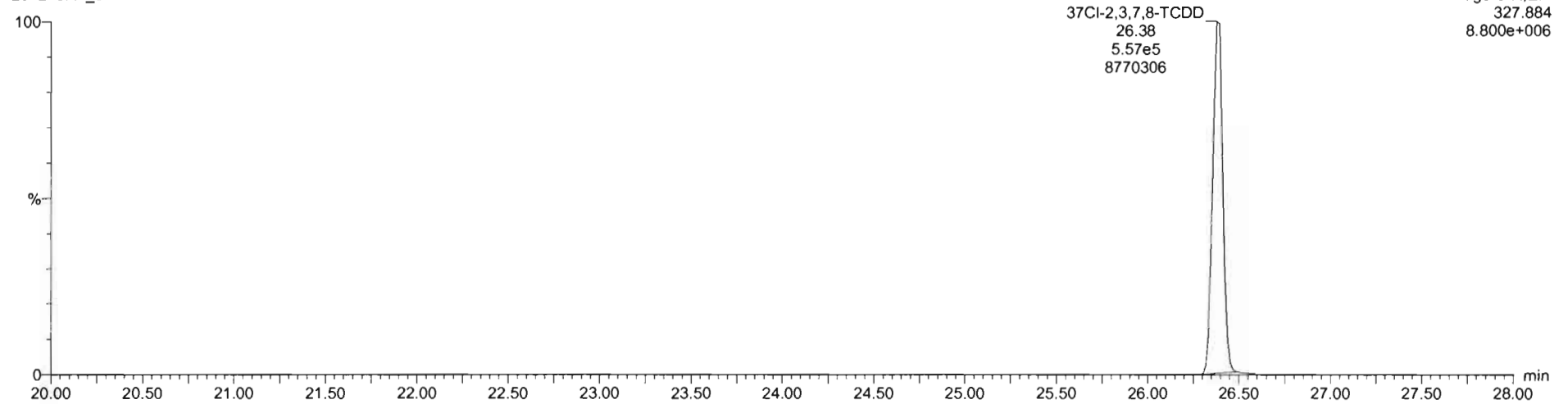
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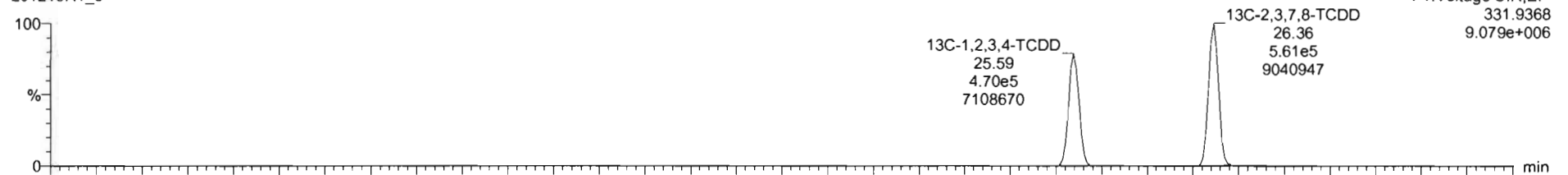
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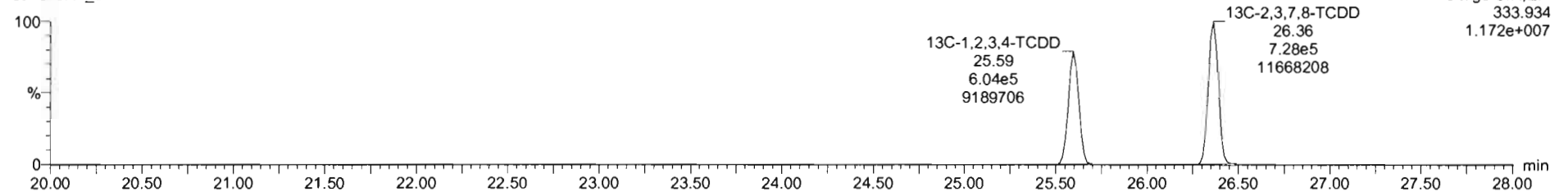


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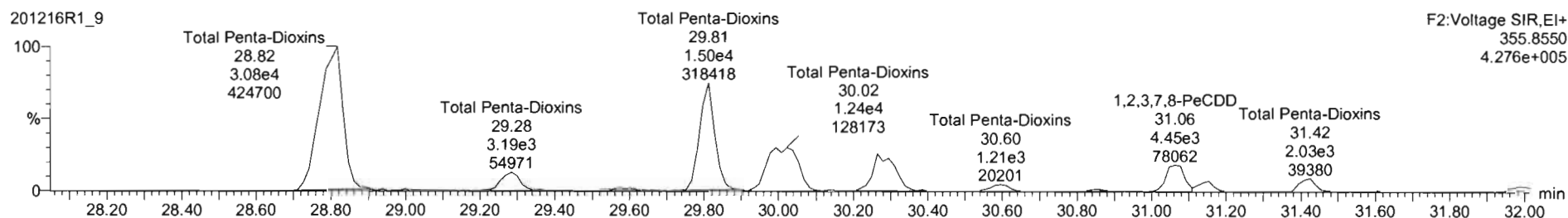
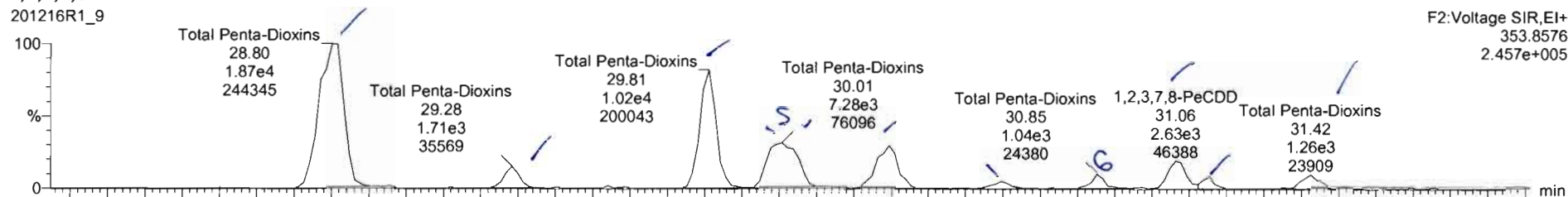
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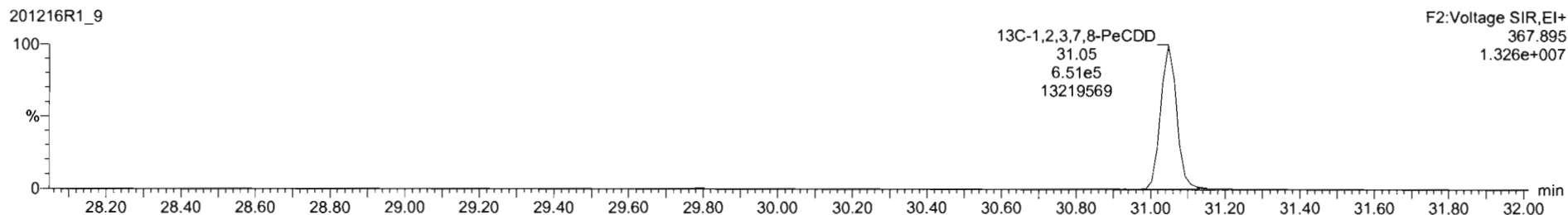
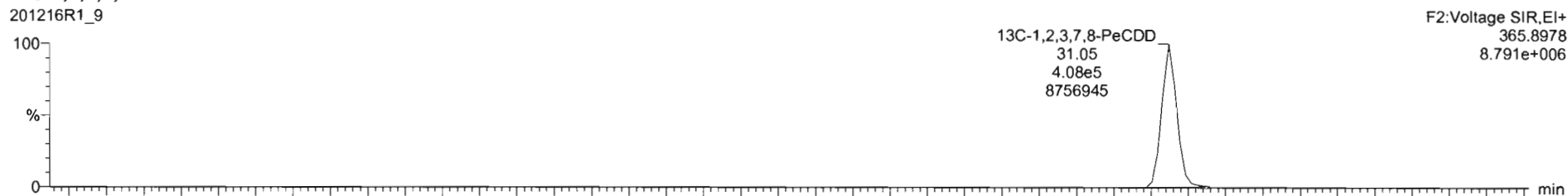
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1,2,3,7,8-PeCDD



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				0.9801	18.141			8.68	0.0348	7.17	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.80	1.871e4	3.077e4	0.61	NO	9.5840	9.5840
2 Total Penta-Dioxins	29.28	1.708e2	3.186e2	0.54	NO	0.97748	0.97748
3 Total Penta-Dioxins	29.81	1.620e4	1.504e4	0.98	NO	5.0424	5.0424
4 Total Penta-Dioxins	30.01	4.624e2	7.665e2	0.60	NO	2.4548	0.00000
5 Total Penta-Dioxins	30.02	2.844e1	4.699e1	0.56	NO	1.4681	0.00000
6 Total Penta-Dioxins	30.29	4.863e2	7.578e2	0.64	NO	2.4851	2.4851
7 Total Penta-Dioxins	30.60	6.827e2	1.206e3	0.57	NO	0.37732	0.37732
8 1,2,3,7,8-PeCDD	31.06	2.631e2	4.451e2	0.59	NO	1.4147	1.4147
9 Total Penta-Dioxins	31.15	7.515e2	1.303e3	0.55	NO	0.42232	0.00000
10 Total Penta-Dioxins	31.42	1.201e3	2.025e3	0.62	NO	0.65840	0.65840



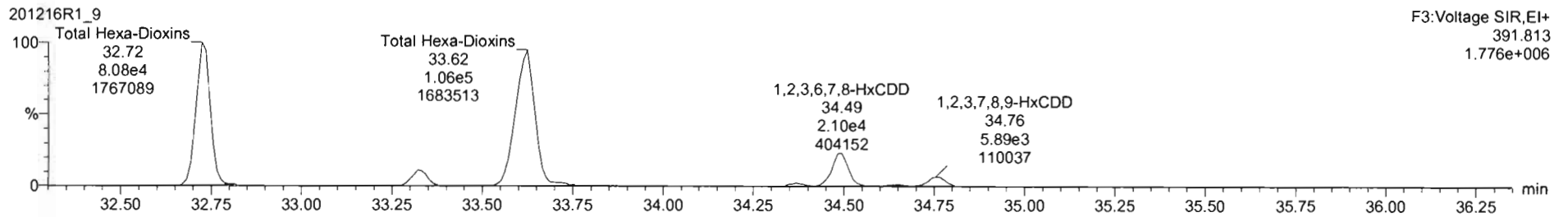
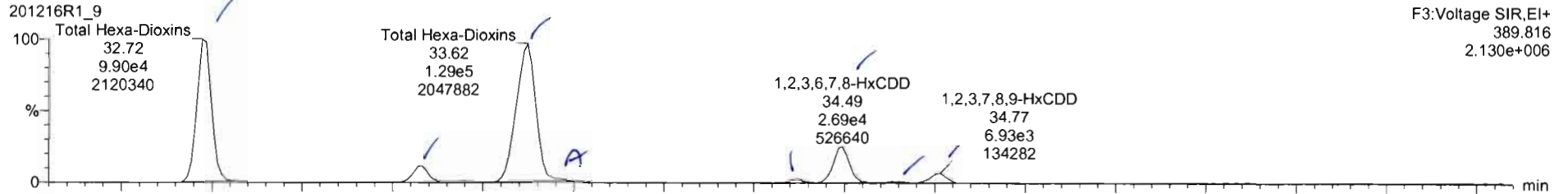
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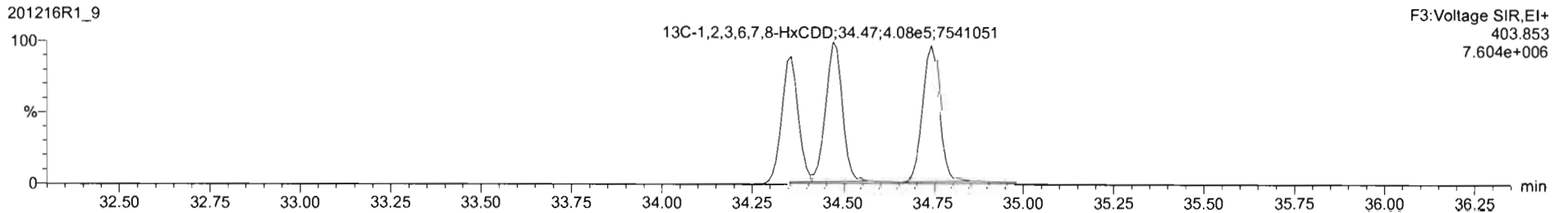
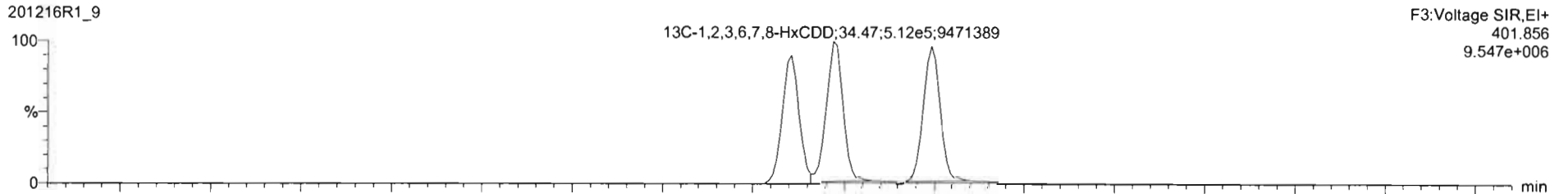
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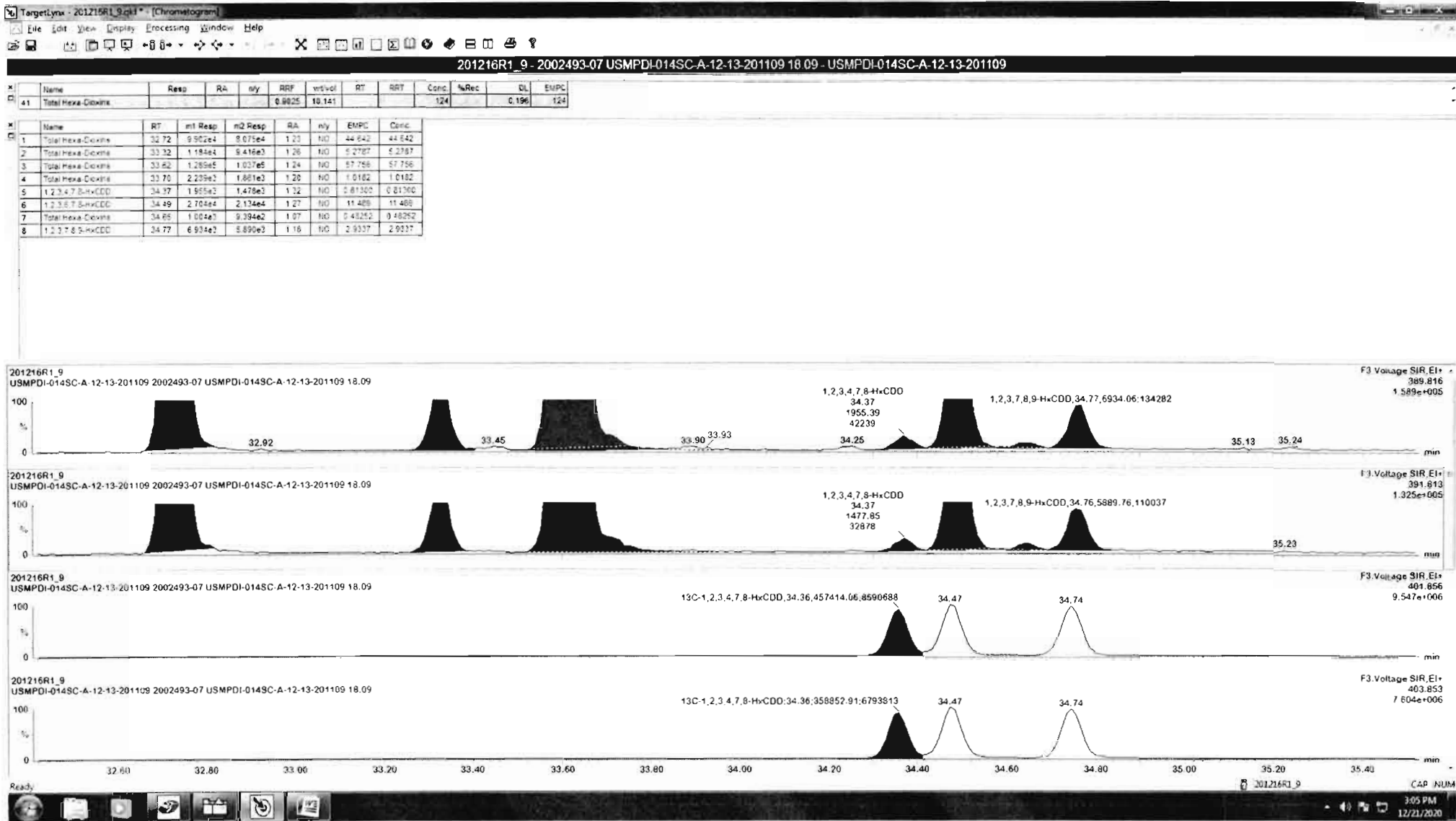
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1,2,3,4,7,8-HxCDD



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



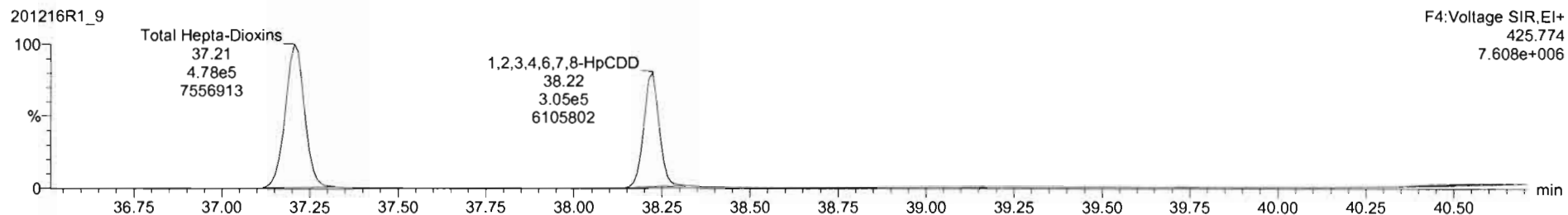


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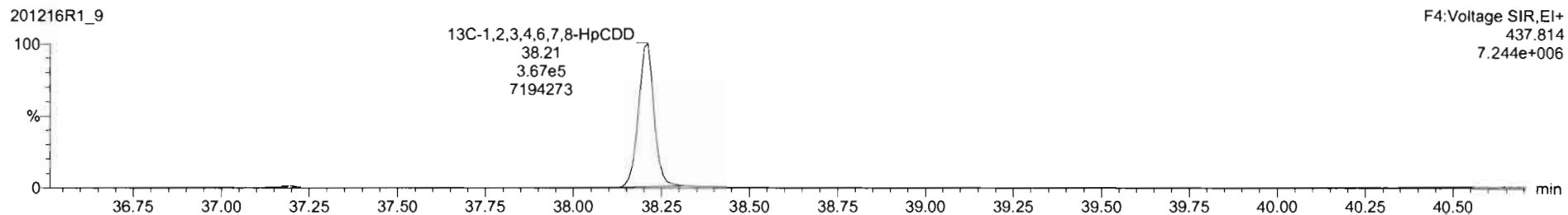
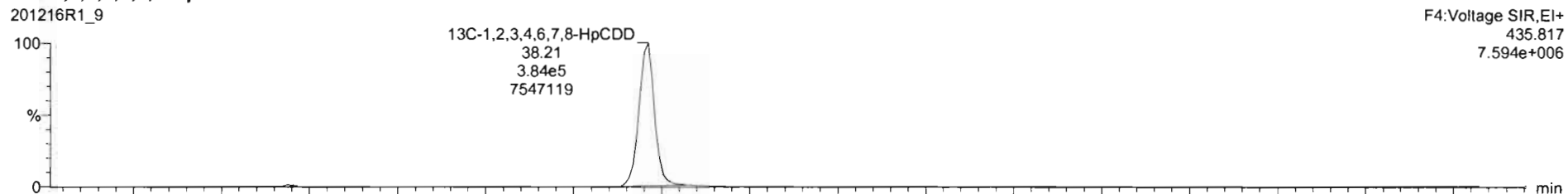
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1,2,3,4,6,7,8-HpCDD



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



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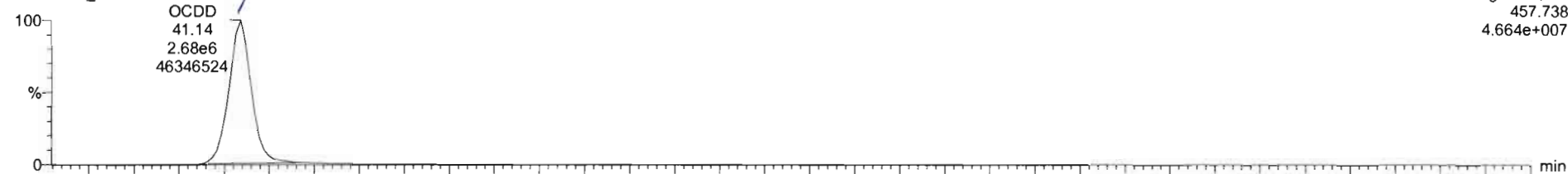
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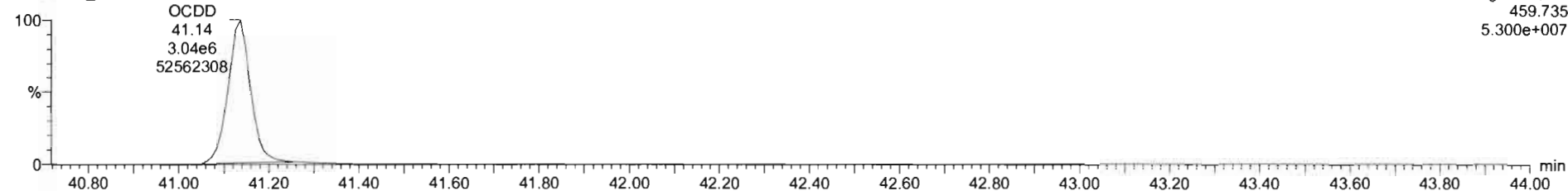
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OCDD

201216R1_9

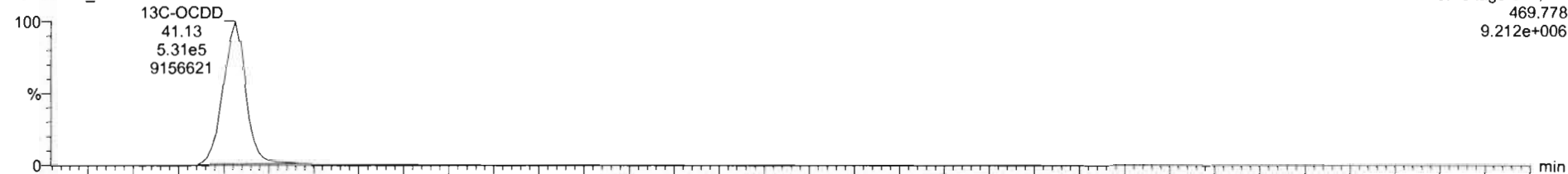


201216R1_9

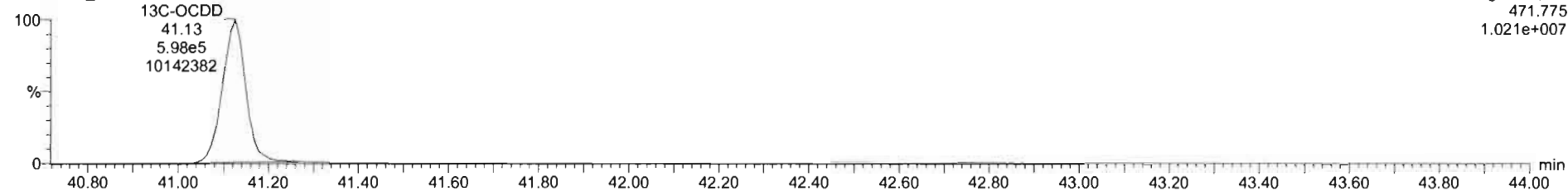


13C-OCDD

201216R1_9



201216R1_9

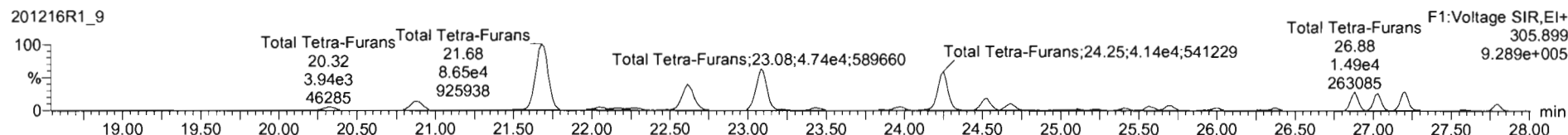
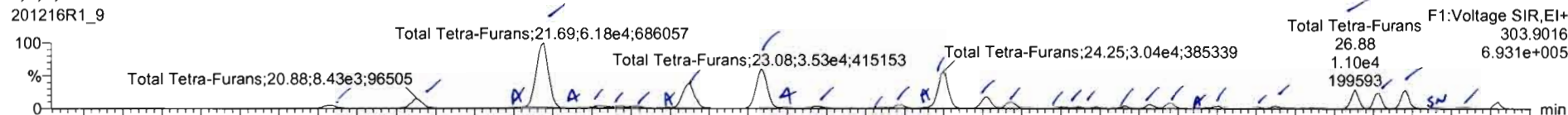


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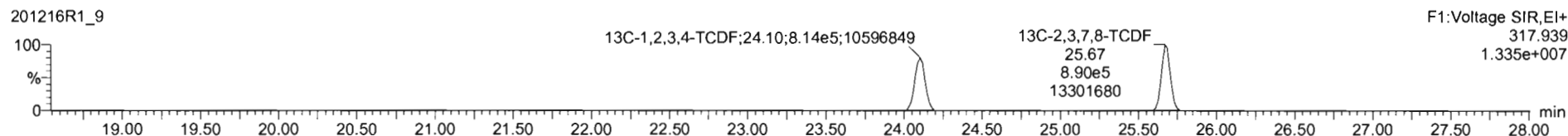
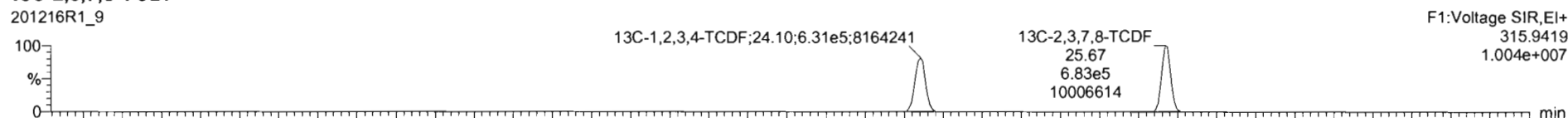
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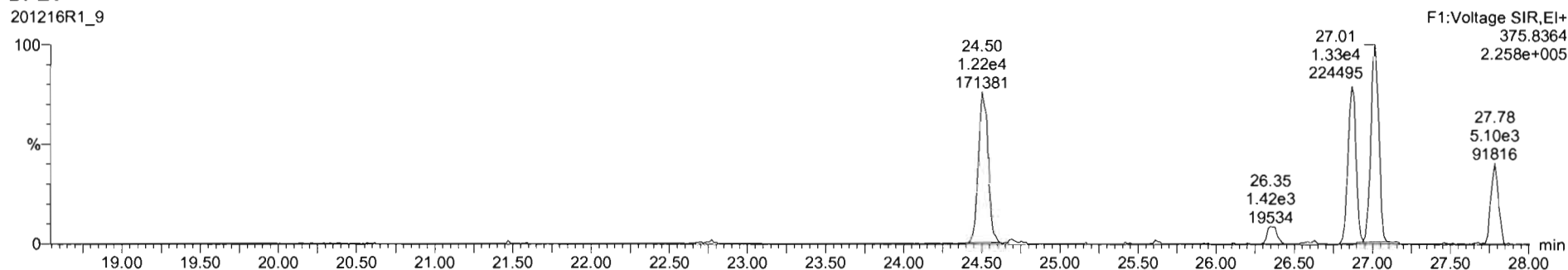
2,3,7,8-TCDF

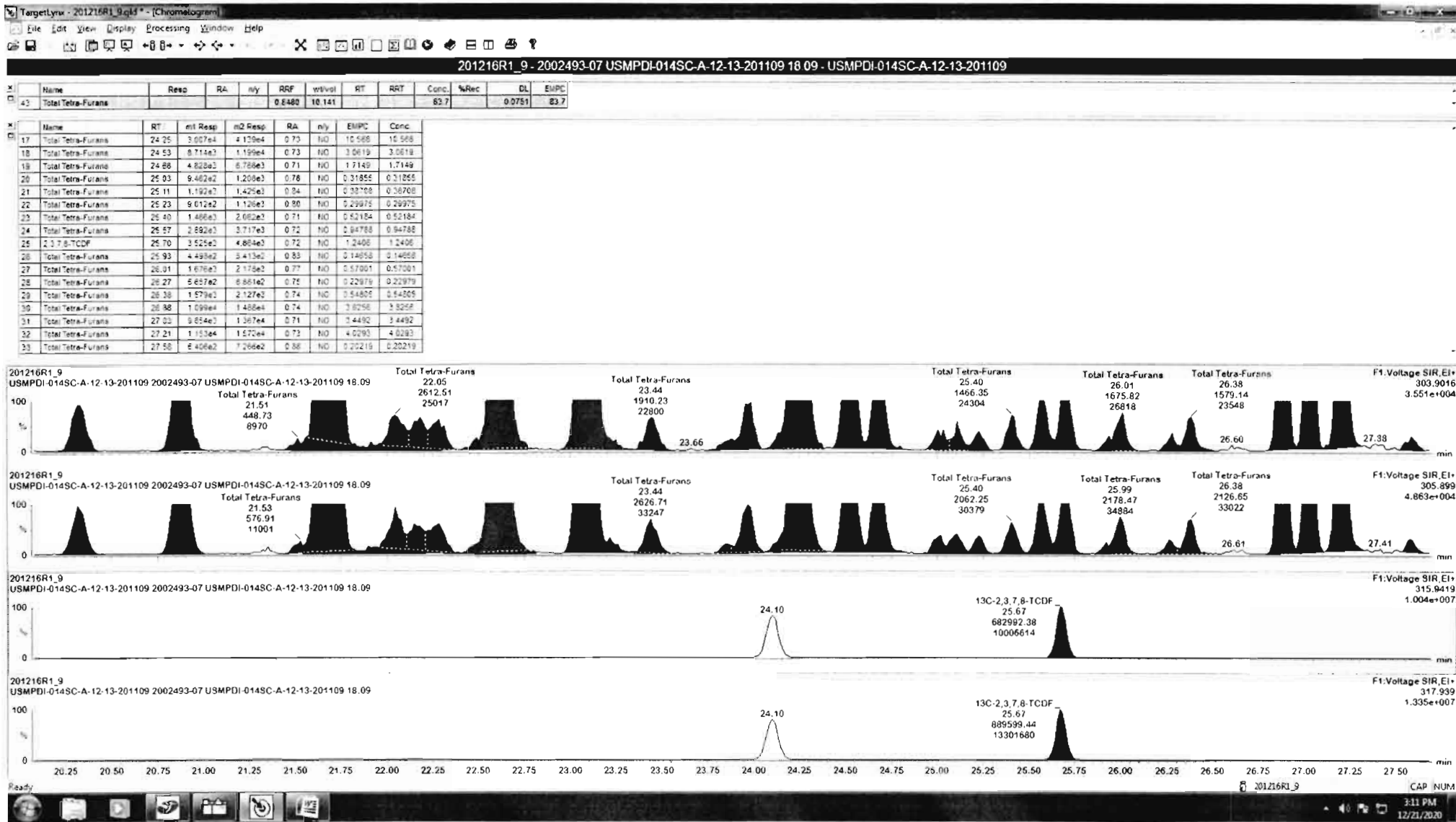


13C-2,3,7,8-TCDF



DPE1





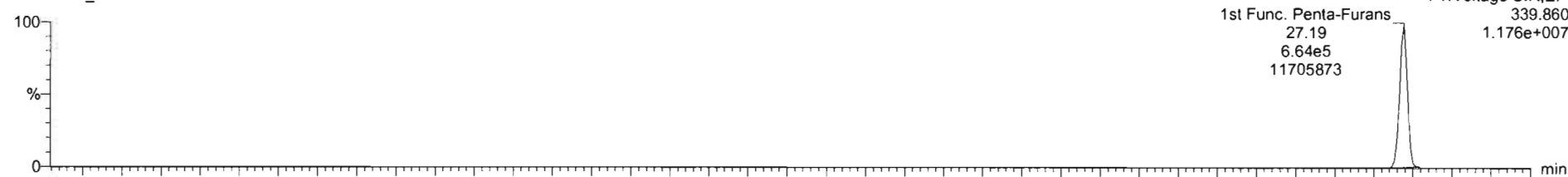
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

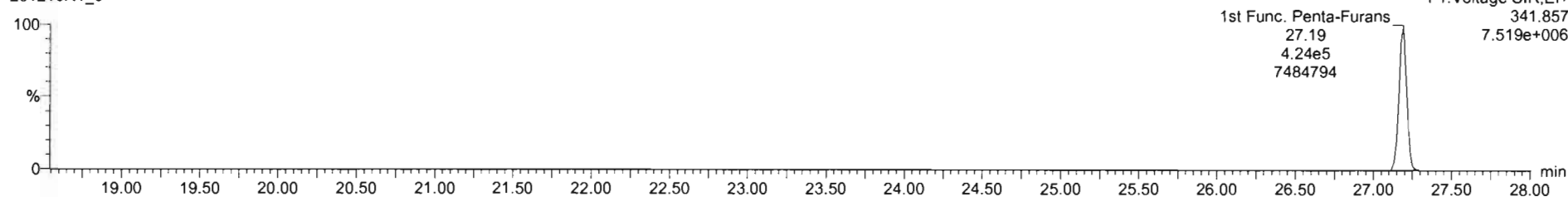
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1st Func. Penta-Furans

201216R1_9

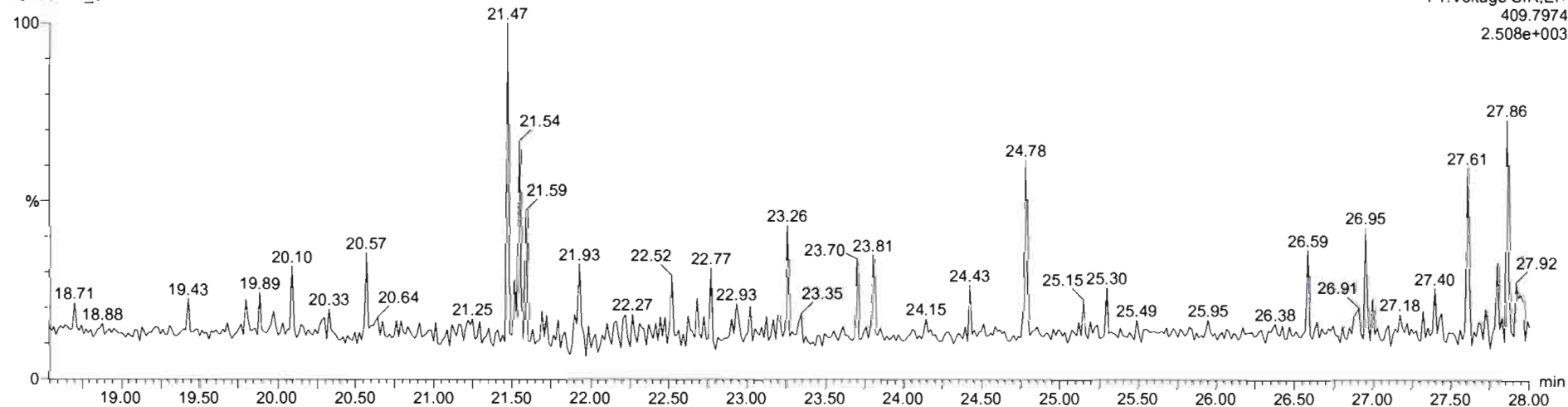


201216R1_9



DPE6

201216R1_9

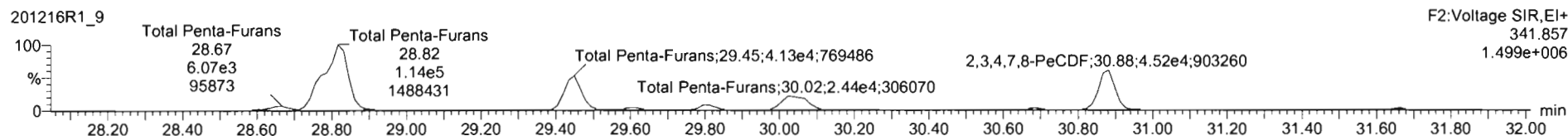
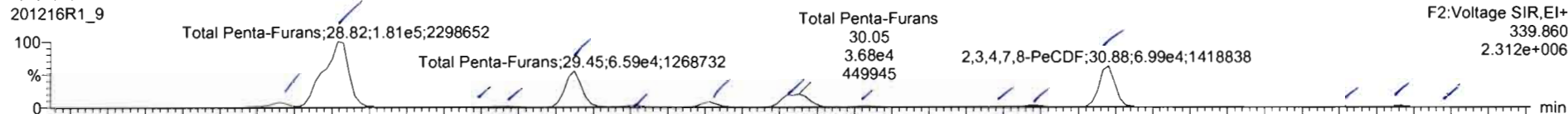


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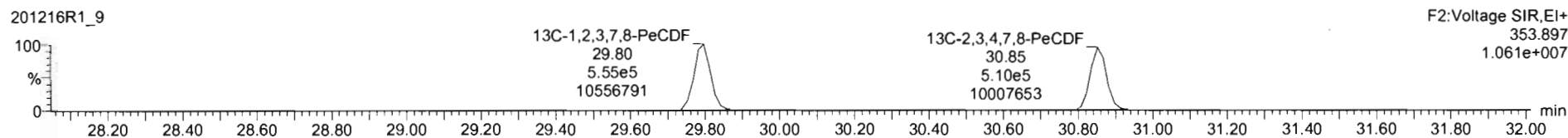
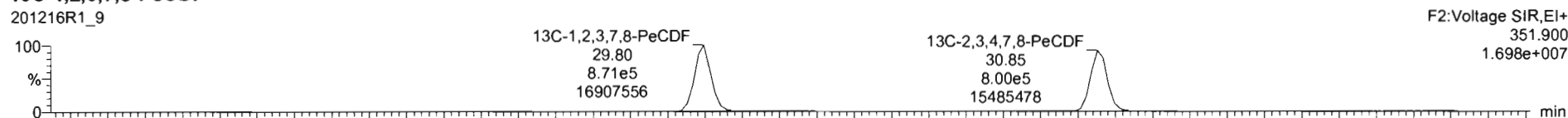
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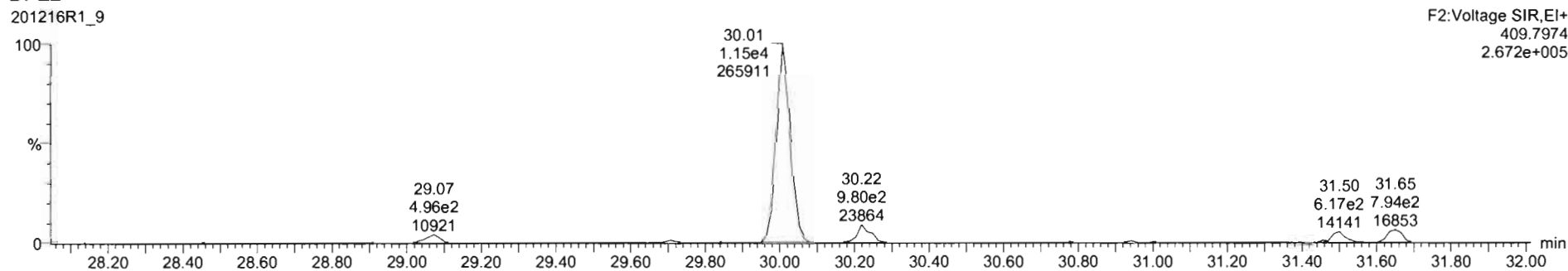
1,2,3,7,8-PeCDF

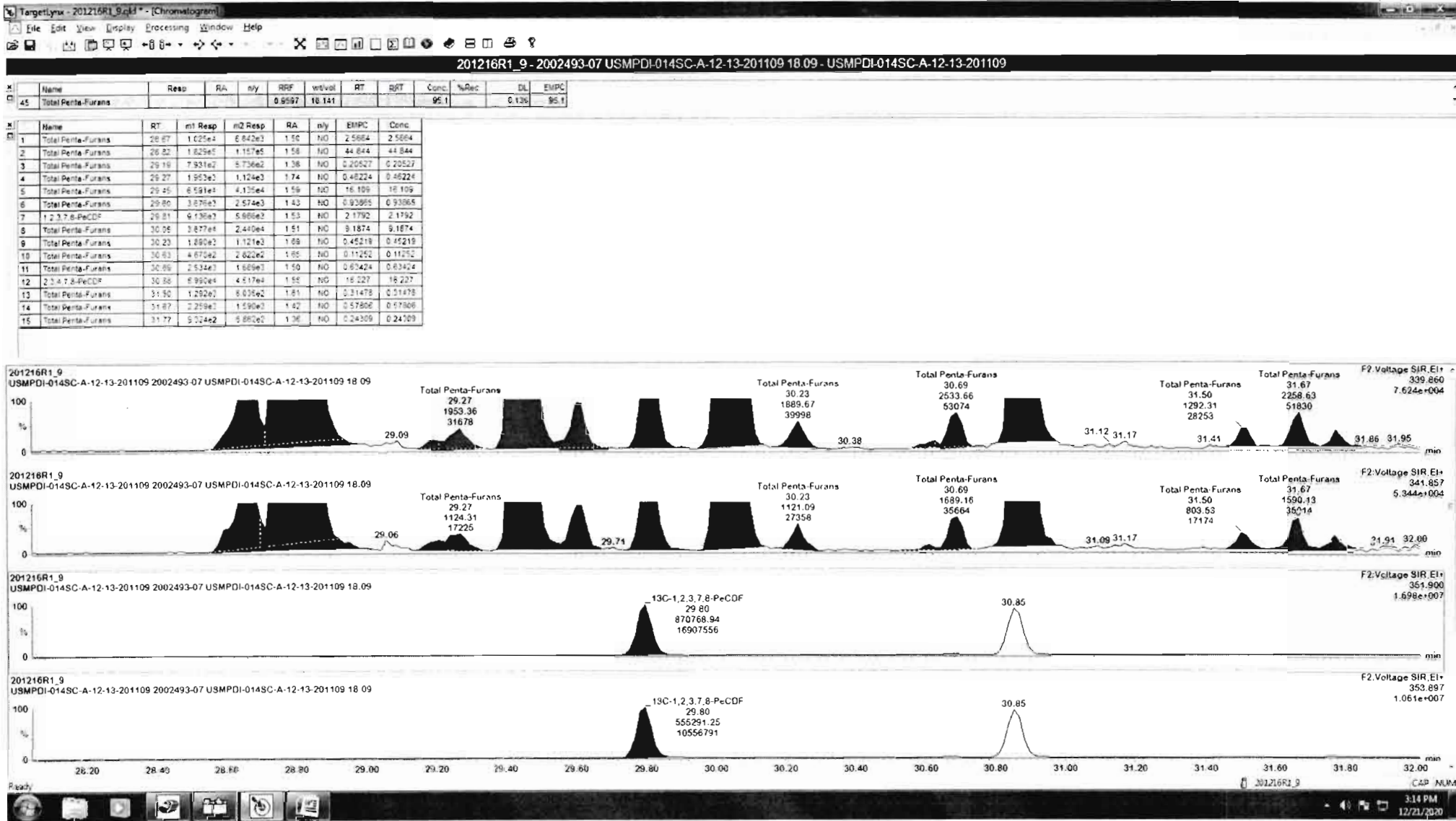


13C-1,2,3,7,8-PeCDF



DPE2



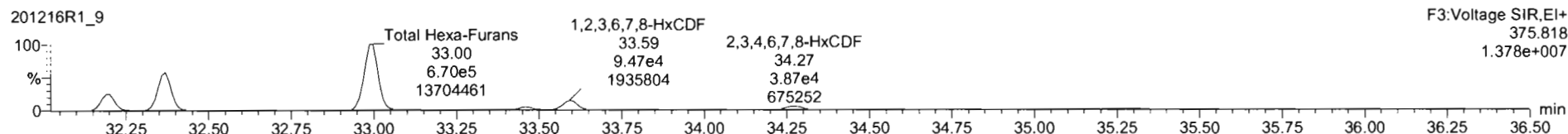
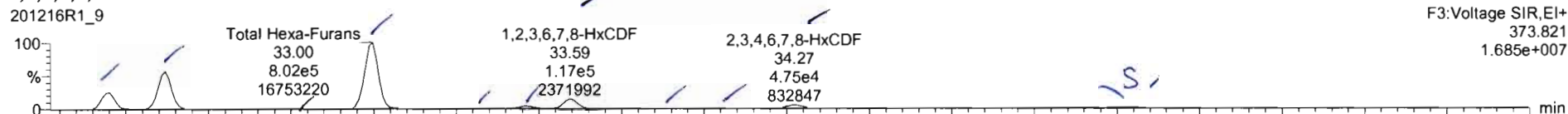


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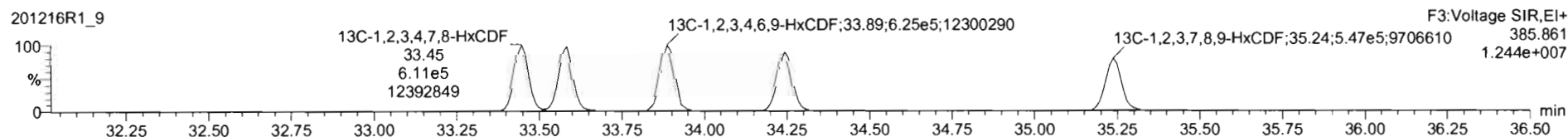
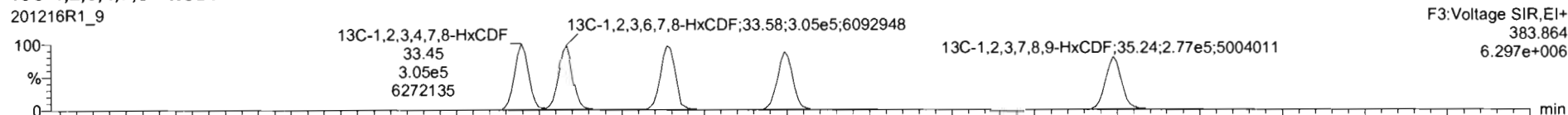
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_9, Date: 16-Dec-2020, Time: 14:31:33, ID: 2002493-07 USMPDI-014SC-A-12-13-201109 18.09, Description: USMPDI-014SC-A-12-13-201109

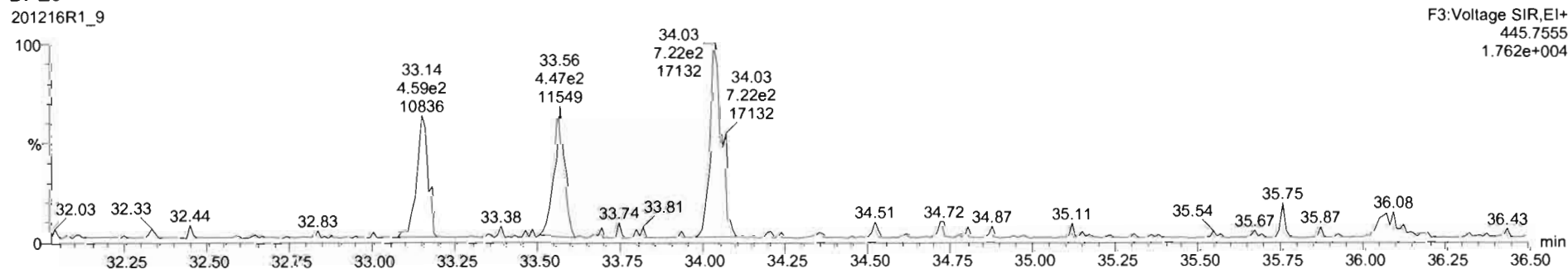
1,2,3,4,7,8-HxCDF



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

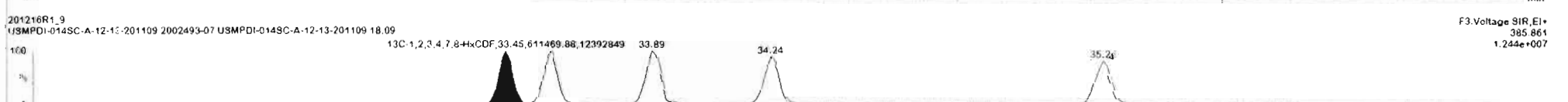
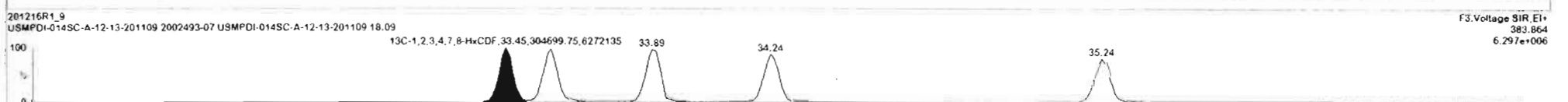
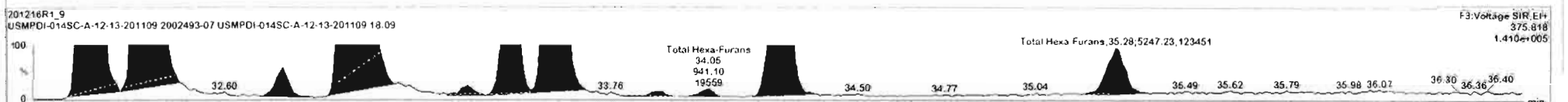
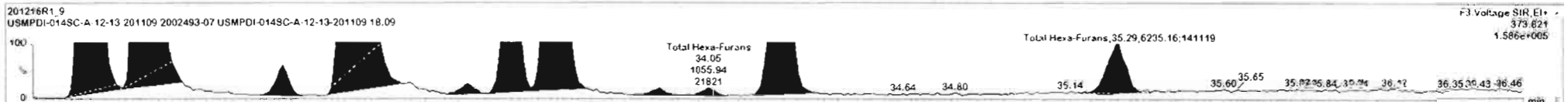


DPE3



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9597	10.141			95.1	0.126	95.1	

Name	RT	Int Resp	mQ Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.20	1.979e5	1.829e5	1.21	NO	79.137	75.137
2 Total Hexa-Furans	32.37	4.4674e5	3.709e5	1.20	NO	179.30	179.30
3 Total Hexa-Furans	32.78	3.914e3	3.491e3	1.12	NO	1.6241	1.6241
4 Total Hexa-Furans	33.00	8.152e5	6.794e5	1.20	NO	327.81	327.81
5 Total Hexa-Furans	33.33	1.459e3	1.201e3	1.14	NO	0.60089	0.60089
6 1,2,3,4,7,8-HxCDF	33.46	2.860e4	2.352e4	1.22	NO	11.379	11.379
7 1,2,3,6,7,8-HxCDF	33.59	1.188e5	9.471e4	1.23	NO	43.844	43.844
8 Total Hexa-Furans	33.91	1.099e3	8.299e2	1.32	NO	0.42295	0.42265
9 Total Hexa-Furans	34.05	1.059e3	8.411e2	1.12	NO	0.43799	0.43789
10 2,3,4,6,7,8-HxCDF	34.27	4.753e4	3.873e4	1.23	NO	19.195	19.195
11 1,2,3,7,8,9-HxCDF	36.27	3.258e3	2.803e3	1.16	NO	1.5089	1.5088
12 Total Hexa-Furans	36.29	8.235e3	5.247e3	1.19	NO	2.5183	2.5183

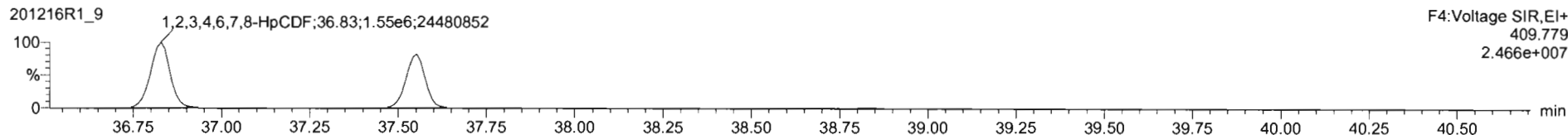
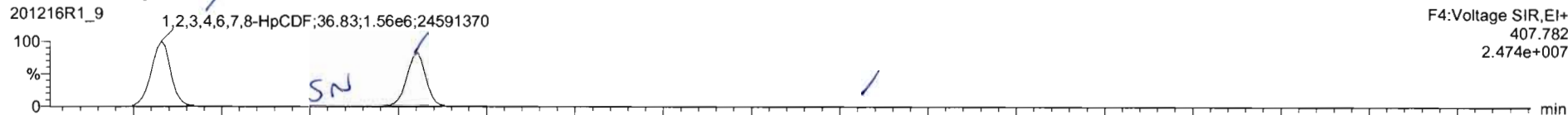


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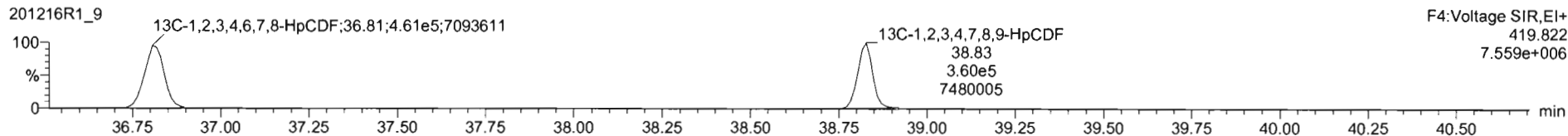
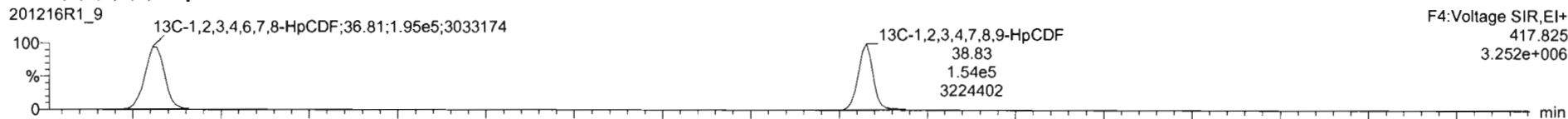
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_9, Date: 16-Dec-2020, Time: 14:31:33, ID: 2002493-07 USMPDI-014SC-A-12-13-201109 18.09, Description: USMPDI-014SC-A-12-13-201109

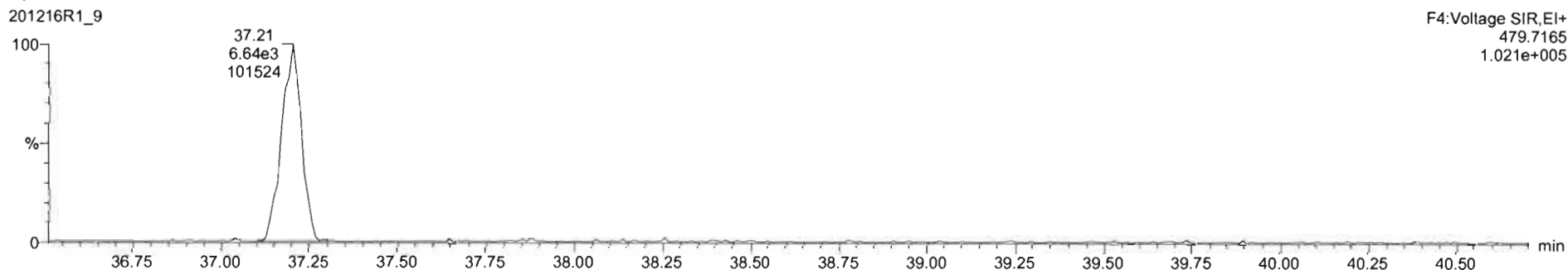
1,2,3,4,6,7,8-HpCDF

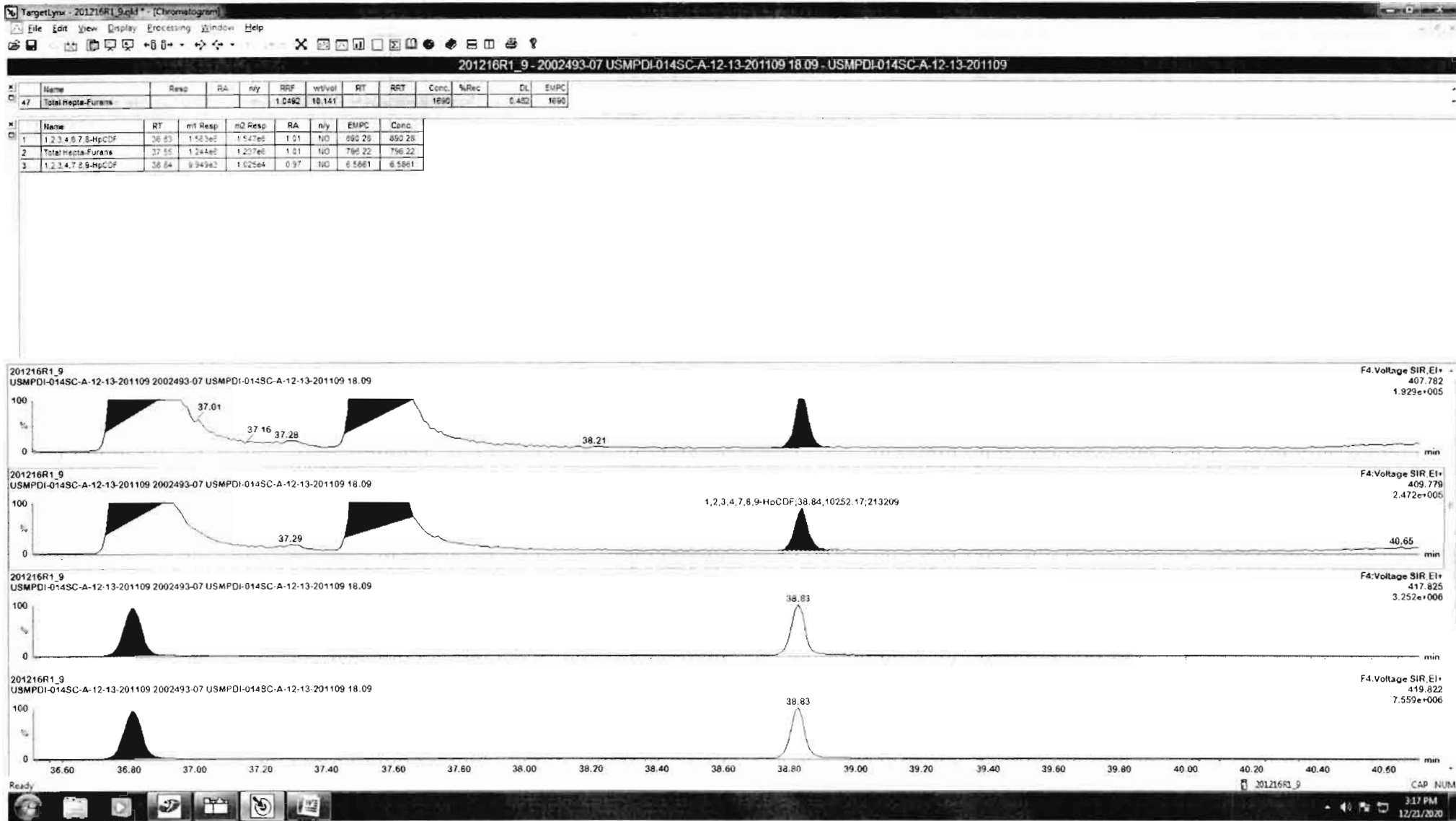


13C-1,2,3,4,6,7,8-HpCDF



DPE4





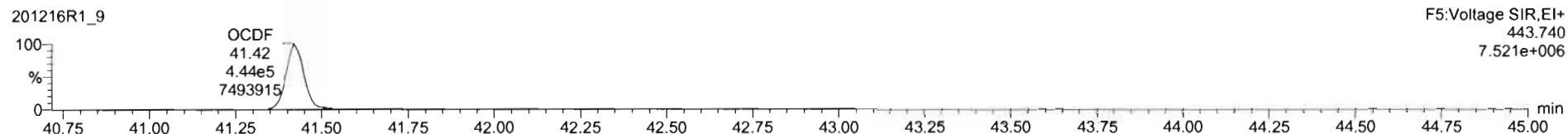
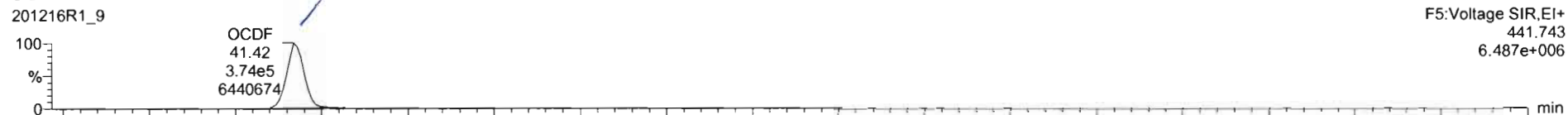
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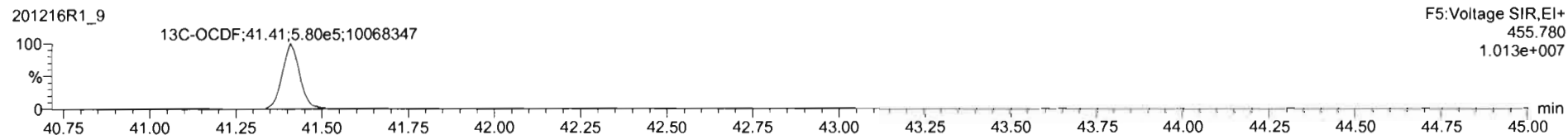
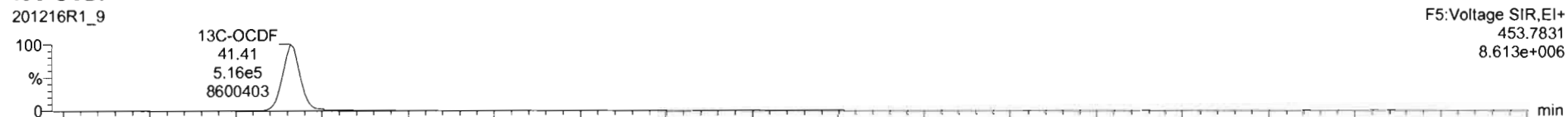
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

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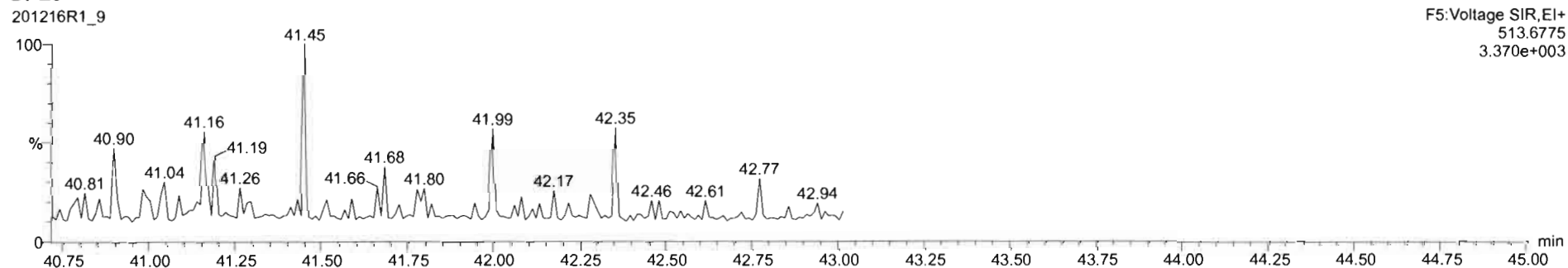
OCDF



13C-OCDF



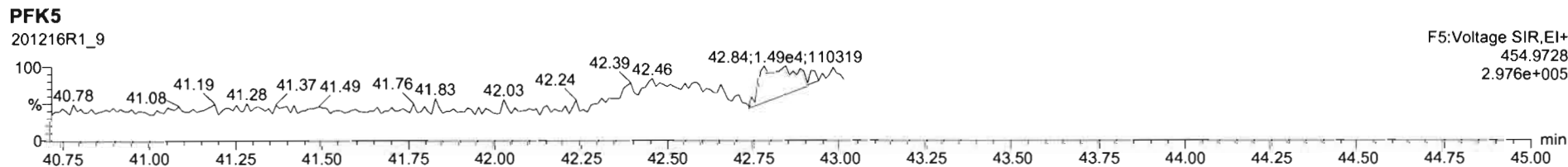
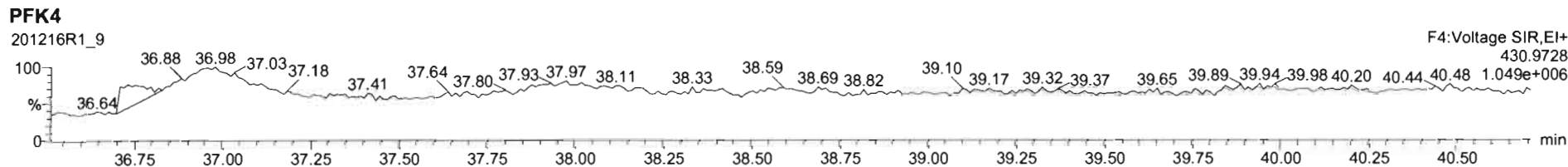
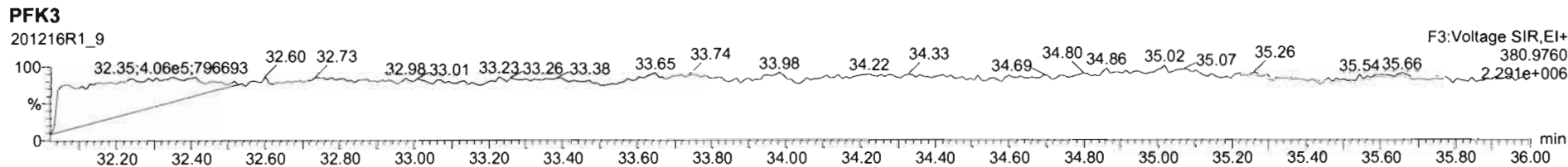
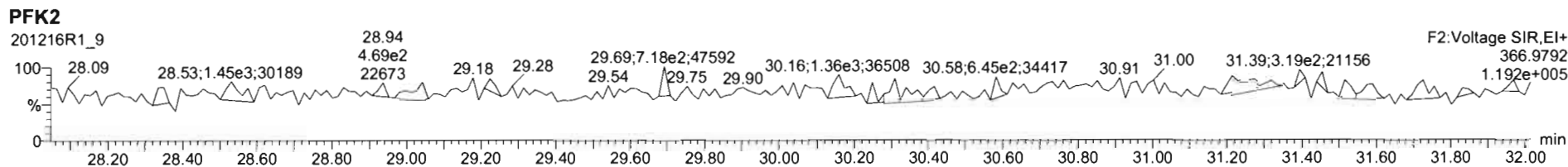
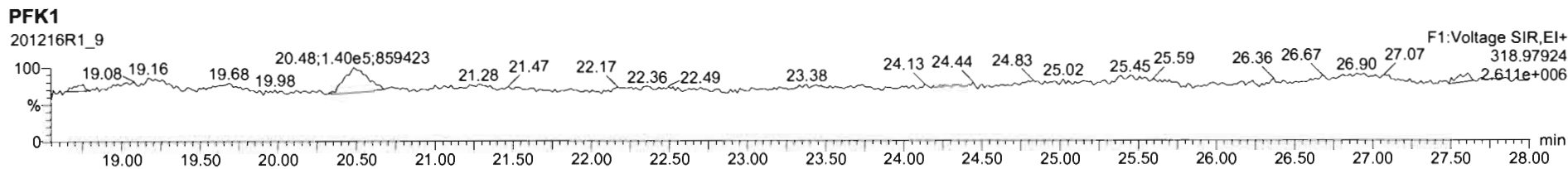
DPE5



Dataset: Untitled

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_10.qld

Last Altered: Tuesday, December 22, 2020 8:02:54 AM Pacific Standard Time
Printed: Tuesday, December 22, 2020 8:03:41 AM Pacific Standard Time

GPE 12/22/2020

Method: Untitled 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

*Mike
12/22/20*

Name: 201216R1_10, Date: 16-Dec-2020, Time: 15:17:22, ID: 2002493-08 USMPDI-014SC-A-13-14-201109 16, Description: USMPDI-014SC-A-13-14-201109

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1	1 2,3,7,8-TCDD	7.09e2	0.19	YES	0.980	10.340	26.381	26.38	1.001	1.001	0.12408		0.0263	0.0461
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.340	31.064		1.001				0.0626	
3	3 1,2,3,4,7,8-HxCDD	2.48e2	1.39	NO	1.02	10.340	34.368	34.35	1.001	1.000	0.067073		0.0519	0.0671
4	4 1,2,3,6,7,8-HxCDD	4.90e2	1.17	NO	0.902	10.340	34.483	34.46	1.001	1.000	0.13440		0.0541	0.134
5	5 1,2,3,7,8,9-HxCDD	6.72e2	1.21	NO	0.954	10.340	34.745	34.76	1.000	1.001	0.17669		0.0540	0.177
6	6 1,2,3,4,6,7,8-HpCDD	5.89e3	1.08	NO	0.918	10.340	38.211	38.21	1.000	1.000	2.0364		0.121	2.04
7	7 OCDD	5.32e4	0.89	NO	0.866	10.340	41.124	41.13	1.000	1.000	27.789		0.159	27.8
8	8 2,3,7,8-TCDF	7.01e2	0.72	NO	0.848	10.340	25.672	25.70	1.000	1.001	0.11754		0.0463	0.118
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.340	29.785		1.000				0.0390	
10	10 2,3,4,7,8-PeCDF	5.62e2	1.11	YES	1.07	10.340	30.874	30.88	1.001	1.001	0.086549		0.0384	0.0748
11	11 1,2,3,4,7,8-HxCDF	2.96e2	1.58	YES	0.986	10.340	33.446	33.45	1.000	1.000	0.073452		0.0492	0.0637
12	12 1,2,3,6,7,8-HxCDF	3.93e2	1.25	NO	1.04	10.340	33.592	33.57	1.001	1.000	0.092670		0.0475	0.0927
13	13 2,3,4,6,7,8-HxCDF	2.65e2	1.07	NO	1.02	10.340	34.253	34.25	1.001	1.001	0.066972		0.0509	0.0670
14	14 1,2,3,7,8,9-HxCDF	2.47e2	1.27	NO	0.991	10.340	35.238	35.24	1.000	1.000	0.066295		0.0625	0.0663
15	15 1,2,3,4,6,7,8-HpCDF	3.92e3	0.95	NO	1.05	10.340	36.824	36.83	1.000	1.001	1.3606		0.0551	1.36
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.340	38.828		1.000				0.0456	
17	17 OCDF	1.60e3	0.97	NO	0.896	10.340	41.427	41.43	1.000	1.000	0.81647		0.0594	0.816
18	18 13C-2,3,7,8-TCDD	1.13e6	0.78	NO	1.06	10.340	26.368	26.35	1.030	1.029	203.24	105	0.157	
19	19 13C-1,2,3,7,8-PeCDD	8.19e5	0.61	NO	0.785	10.340	31.211	31.03	1.219	1.212	198.70	103	0.126	
20	20 13C-1,2,3,4,7,8-HxCDD	7.01e5	1.26	NO	0.621	10.340	34.337	34.35	1.014	1.014	244.98	127	0.446	
21	21 13C-1,2,3,6,7,8-HxCDD	7.82e5	1.27	NO	0.734	10.340	34.459	34.46	1.017	1.017	231.10	119	0.377	
22	22 13C-1,2,3,7,8,9-HxCDD	7.71e5	1.25	NO	0.723	10.340	34.743	34.74	1.026	1.025	231.55	120	0.383	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.09e5	1.02	NO	0.568	10.340	38.243	38.20	1.129	1.128	232.87	120	0.714	
24	24 13C-OCDD	8.56e5	0.90	NO	0.496	10.340	41.180	41.12	1.216	1.214	374.70	96.9	0.933	
25	25 13C-2,3,7,8-TCDF	1.36e6	0.77	NO	0.919	10.340	25.667	25.67	1.003	1.003	206.20	107	0.207	
26	26 13C-1,2,3,7,8-PeCDF	1.19e6	1.57	NO	0.715	10.340	29.921	29.78	1.169	1.164	231.64	120	0.260	
27	27 13C-2,3,4,7,8-PeCDF	1.18e6	1.58	NO	0.689	10.340	31.008	30.85	1.212	1.205	237.97	123	0.270	
28	28 13C-1,2,3,4,7,8-HxCDF	7.90e5	0.50	NO	0.873	10.340	33.442	33.44	0.987	0.987	196.38	102	0.328	
29	29 13C-1,2,3,6,7,8-HxCDF	7.90e5	0.51	NO	0.933	10.340	33.571	33.57	0.991	0.991	183.71	95.0	0.307	
30	30 13C-2,3,4,6,7,8-HxCDF	7.49e5	0.50	NO	0.843	10.340	34.238	34.23	1.011	1.011	192.85	99.7	0.340	
31	31 13C-1,2,3,7,8,9-HxCDF	7.26e5	0.51	NO	0.780	10.340	35.238	35.23	1.040	1.040	202.11	104	0.367	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_10.qld

Last Altered: Tuesday, December 22, 2020 8:02:54 AM Pacific Standard Time

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Name: 201216R1_10, Date: 16-Dec-2020, Time: 15:17:22, ID: 2002493-08 USMPDI-014SC-A-13-14-201109 16, Description: USMPDI-014SC-A-13-14-201109

	# 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	5.31e5	0.42	NO	0.726	10.340	36.813	36.81	1.087	1.086	158.75	82.1	0.464	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.33e5	0.43	NO	0.491	10.340	38.822	38.82	1.146	1.146	191.47	99.0	0.686	
34	34 13C-OCDF	8.47e5	0.88	NO	0.565	10.340	41.396	41.42	1.222	1.223	324.96	84.0	0.318	
35	35 37Cl-2,3,7,8-TCDD	5.19e5			1.22	10.340	26.363	26.38	1.030	1.031	81.227	105	0.0211	
36	36 13C-1,2,3,4-TCDD	1.02e6	0.78	NO	1.00	10.340	25.640	25.59	1.000	1.000	193.42	100	0.165	
37	37 13C-1,2,3,4-TCDF	1.39e6	0.78	NO	1.00	10.340	24.130	24.09	1.000	1.000	193.42	100	0.190	
38	38 13C-1,2,3,4,6,9-HxCDF	8.91e5	0.50	NO	1.00	10.340	33.920	33.88	1.000	1.000	193.42	100	0.286	
39	39 Total Tetra-Dioxins				0.980	10.340	24.620		0.000		0.58707		0.0263	0.672
40	40 Total Penta-Dioxins				0.932	10.340	29.960		0.000		0.49569		0.0626	0.801
41	41 Total Hexa-Dioxins				0.902	10.340	33.635		0.000		2.4562		0.0566	2.46
42	42 Total Hepta-Dioxins				0.918	10.340	37.640		0.000		5.0561		0.121	5.06
43	43 Total Tetra-Furans				0.848	10.340	23.610		0.000		1.6835		0.0463	1.85
44	44 1st Func. Penta-Furans				0.960	10.340	26.930		0.000		0.39694		0.0154	0.397
45	45 Total Penta-Furans				0.960	10.340	29.275		0.000		0.34189		0.0408	0.535
46	46 Total Hexa-Furans				1.02	10.340	33.555		0.000		1.1976		0.0517	1.26
47	47 Total Hepta-Furans				1.05	10.340	37.835		0.000		2.4167		0.0533	2.42

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_10.qld

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Method: Untitled 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_10, Date: 16-Dec-2020, Time: 15:17:22, ID: 2002493-08 USMPDI-014SC-A-13-14-201109 16, Description: USMPDI-014SC-A-13-14-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.56	4.491e3	5.067e3	3.627e2	4.920e2	0.74	NO	8.547e2	0.14955	0.14955	0.0263
2	Total Tetra-Dioxins	22.92	4.227e3	4.341e3	2.627e2	3.769e2	0.70	NO	6.396e2	0.11192	0.11192	0.0263
3	Total Tetra-Dioxins	24.31	8.204e3	1.018e4	5.414e2	6.391e2	0.85	NO	1.181e3	0.20657	0.20657	0.0263
4	Total Tetra-Dioxins	24.50	2.656e3	1.679e3	1.427e2	1.245e2	1.15	YES	0.000e0	0.00000	0.038571	0.0263
5	Total Tetra-Dioxins	24.74	2.155e3	2.912e3	1.175e2	1.423e2	0.83	NO	2.597e2	0.045449	0.045449	0.0263
6	2,3,7,8-TCDD	26.38	1.868e3	9.817e3	1.146e2	5.946e2	0.19	YES	7.091e2	0.00000	0.046083	0.0263
7	Total Tetra-Dioxins	26.70	2.039e3	3.436e3	9.781e1	1.468e2	0.67	NO	2.446e2	0.042806	0.042806	0.0263
8	Total Tetra-Dioxins	27.25	1.567e3	2.424e3	8.224e1	9.359e1	0.88	NO	1.758e2	0.030768	0.030768	0.0263

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.77	3.642e3	5.105e3	2.503e2	3.868e2	0.65	NO	6.371e2	0.16138	0.16138	0.0626
2	Total Penta-Dioxins	29.25	4.025e3	7.115e3	2.075e2	3.758e2	0.55	NO	5.833e2	0.14775	0.14775	0.0626
3	Total Penta-Dioxins	29.78	2.304e4	9.226e3	1.039e3	4.346e2	2.39	YES	0.000e0	0.00000	0.17942	0.0626
4	Total Penta-Dioxins	30.28	4.748e3	7.935e3	2.602e2	4.763e2	0.55	NO	7.365e2	0.18655	0.18655	0.0626
5	Total Penta-Dioxins	30.84	2.142e4	7.477e3	8.433e2	3.054e2	2.76	YES	0.000e0	0.00000	0.12608	0.0626

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	3.437e4	3.368e4	1.784e3	1.477e3	1.21	NO	3.261e3	0.93036	0.93036	0.0566
2	Total Hexa-Dioxins	33.31	8.770e3	7.465e3	4.036e2	3.141e2	1.29	NO	7.177e2	0.20479	0.20479	0.0566
3	Total Hexa-Dioxins	33.59	1.911e4	1.685e4	1.522e3	1.149e3	1.32	NO	2.672e3	0.76227	0.76227	0.0566
4	Total Hexa-Dioxins	33.70	3.550e3	2.659e3	1.779e2	1.264e2	1.41	NO	3.042e2	0.086809	0.086809	0.0566
5	1,2,3,4,7,8-HxCDD	34.35	3.790e3	2.349e3	1.444e2	1.035e2	1.39	NO	2.479e2	0.067073	0.067073	0.0519
6	1,2,3,6,7,8-HxCDD	34.46	4.146e3	4.530e3	2.646e2	2.257e2	1.17	NO	4.902e2	0.13440	0.13440	0.0541
7	Total Hexa-Dioxins	34.69	2.550e3	2.054e3	1.862e2	1.425e2	1.31	NO	3.288e2	0.093804	0.093804	0.0566
8	1,2,3,7,8,9-HxCDD	34.76	8.096e3	6.742e3	3.684e2	3.037e2	1.21	NO	6.721e2	0.17669	0.17669	0.0540

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Last Altered: Tuesday, December 22, 2020 8:02:54 AM Pacific Standard Time

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Name: 201216R1_10, Date: 16-Dec-2020, Time: 15:17:22, ID: 2002493-08 USMPDI-014SC-A-13-14-201109 16, Description: USMPDI-014SC-A-13-14-201109

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.21	6.600e4	6.790e4	4.472e3	4.260e3	1.05	NO	8.732e3	3.0197	3.0197	0.121
2	1,2,3,4,6,7,8-HpCDD	38.21	6.616e4	5.616e4	3.061e3	2.828e3	1.08	NO	5.889e3	2.0364	2.0364	0.121

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.30	3.366e3	5.278e3	2.521e2	3.355e2	0.75	NO	5.876e2	0.098462	0.098462	0.0463
2	Total Tetra-Furans	20.85	1.833e3	2.178e3	1.065e2	1.596e2	0.67	NO	2.662e2	0.044599	0.044599	0.0463
3	Total Tetra-Furans	21.65	1.169e4	1.440e4	1.099e3	1.289e3	0.85	NO	2.388e3	0.40022	0.40022	0.0463
4	Total Tetra-Furans	22.03	1.628e3	1.796e3	8.715e1	1.042e2	0.84	NO	1.913e2	0.032063	0.032063	0.0463
5	Total Tetra-Furans	22.15	3.024e3	3.670e3	2.204e2	2.810e2	0.78	NO	0.000e0	0.00000	0.084021	0.0463
6	Total Tetra-Furans	22.30	1.881e3	3.230e3	1.308e2	1.919e2	0.68	NO	3.227e2	0.054073	0.054073	0.0463
7	Total Tetra-Furans	22.65	4.332e3	3.788e3	3.861e2	4.833e2	0.80	NO	8.694e2	0.14568	0.14568	0.0463
8	Total Tetra-Furans	23.04	4.360e3	3.358e3	2.543e2	2.937e2	0.87	NO	5.479e2	0.091819	0.091819	0.0463
9	Total Tetra-Furans	23.42	2.207e3	3.071e3	1.166e2	1.775e2	0.66	NO	2.941e2	0.049285	0.049285	0.0463
10	Total Tetra-Furans	23.85	2.177e3	4.697e3	1.366e2	2.056e2	0.66	NO	3.422e2	0.057343	0.057343	0.0463
11	Total Tetra-Furans	23.95	2.282e3	2.285e3	1.628e2	1.907e2	0.85	NO	3.535e2	0.059230	0.059230	0.0463
12	Total Tetra-Furans	24.13	2.286e3	3.259e3	1.531e2	2.223e2	0.69	NO	3.754e2	0.062910	0.062910	0.0463
13	Total Tetra-Furans	24.25	3.346e3	4.474e3	2.723e2	4.067e2	0.67	NO	6.790e2	0.11378	0.11378	0.0463
14	Total Tetra-Furans	24.65	4.676e3	5.369e3	2.872e2	3.656e2	0.79	NO	6.529e2	0.10940	0.10940	0.0463
15	Total Tetra-Furans	24.99	2.251e3	3.951e3	1.486e2	1.763e2	0.84	NO	3.249e2	0.054440	0.054440	0.0463
16	Total Tetra-Furans	25.08	1.551e3	2.831e3	9.801e1	1.461e2	0.67	NO	0.000e0	0.00000	0.040905	0.0463
17	Total Tetra-Furans	25.37	1.980e3	2.199e3	1.176e2	1.496e2	0.79	NO	2.672e2	0.044778	0.044778	0.0463
18	Total Tetra-Furans	25.58	2.153e3	2.517e3	1.218e2	1.512e2	0.81	NO	2.730e2	0.045741	0.045741	0.0463
19	2,3,7,8-TCDF	25.70	4.738e3	5.751e3	2.931e2	4.083e2	0.72	NO	7.014e2	0.11754	0.11754	0.0463
20	Total Tetra-Furans	25.99	2.571e3	4.301e3	2.685e2	3.411e2	0.79	NO	6.096e2	0.10216	0.10216	0.0463
21	Total Tetra-Furans	27.40	4.997e3	3.141e3	2.232e2	1.304e2	1.71	YES	0.000e0	0.00000	0.038665	0.0463

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	27.18	2.472e4	1.557e4	1.421e3	9.096e2	1.56	NO	2.331e3	0.39694	0.39694	0.0154

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_10.qld

Last Altered: Tuesday, December 22, 2020 8:02:54 AM Pacific Standard Time

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Name: 201216R1_10, Date: 16-Dec-2020, Time: 15:17:22, ID: 2002493-08 USMPDI-014SC-A-13-14-201109 16, Description: USMPDI-014SC-A-13-14-201109

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.64	3.208e3	2.937e3	2.873e2	2.052e2	1.40	NO	4.925e2	0.083881	0.083881	0.0408
2	Total Penta-Furans	28.80	8.334e3	4.826e3	5.667e2	3.808e2	1.49	NO	9.474e2	0.16136	0.16136	0.0408
3	Total Penta-Furans	29.43	5.899e3	5.605e3	3.315e2	2.359e2	1.41	NO	5.675e2	0.096648	0.096648	0.0408
4	Total Penta-Furans	30.05	5.621e3	2.430e3	2.975e2	1.666e2	1.79	YES	0.000e0	0.00000	0.072354	0.0408
5	Total Penta-Furans	30.67	4.153e3	3.178e3	1.633e2	1.366e2	1.20	YES	0.000e0	0.00000	0.045742	0.0408
6	2,3,4,7,8-PeCDF	30.88	5.045e3	4.433e3	2.951e2	2.669e2	1.11	YES	5.620e2	0.00000	0.074768	0.0384

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	8.598e3	5.447e3	3.826e2	2.755e2	1.39	NO	6.582e2	0.16331	0.16331	0.0517
2	Total Hexa-Furans	32.35	1.796e4	1.347e4	8.446e2	6.357e2	1.33	NO	1.480e3	0.36732	0.36732	0.0517
3	Total Hexa-Furans	32.99	1.835e4	1.477e4	8.203e2	7.158e2	1.15	NO	1.536e3	0.38117	0.38117	0.0517
4	Total Hexa-Furans	33.33	2.041e3	2.192e3	8.813e1	6.630e1	1.33	NO	1.544e2	0.038319	0.038319	0.0517
5	1,2,3,4,7,8-HxCDF	33.45	2.989e3	2.062e3	1.813e2	1.147e2	1.58	YES	2.959e2	0.00000	0.063744	0.0492
6	1,2,3,6,7,8-HxCDF	33.57	3.350e3	3.125e3	2.185e2	1.748e2	1.25	NO	3.933e2	0.092670	0.092670	0.0475
7	2,3,4,6,7,8-HxCDF	34.25	2.364e3	2.367e3	1.370e2	1.277e2	1.07	NO	2.647e2	0.066972	0.066972	0.0509
8	1,2,3,7,8,9-HxCDF	35.24	3.087e3	2.934e3	1.379e2	1.088e2	1.27	NO	2.467e2	0.066295	0.066295	0.0625
9	Total Hexa-Furans	35.28	2.016e3	1.702e3	4.605e1	4.068e1	1.13	NO	8.673e1	0.021520	0.021520	0.0517

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	36.83	3.199e4	2.962e4	1.909e3	2.013e3	0.95	NO	3.922e3	1.3606	1.3606	0.0551
2	Total Hepta-Furans	37.53	2.204e4	2.516e4	1.403e3	1.360e3	1.03	NO	2.763e3	1.0561	1.0561	0.0533

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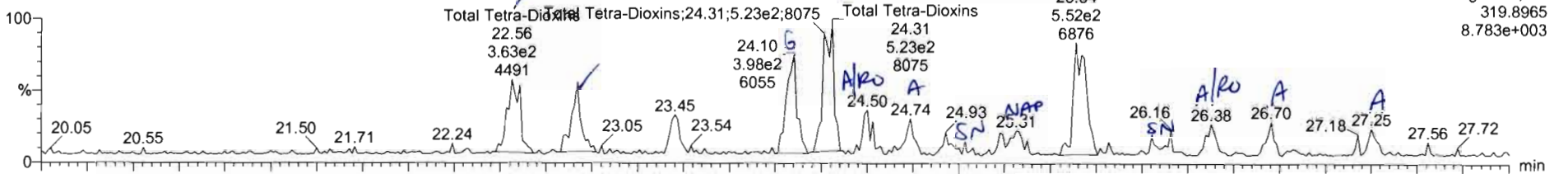
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time

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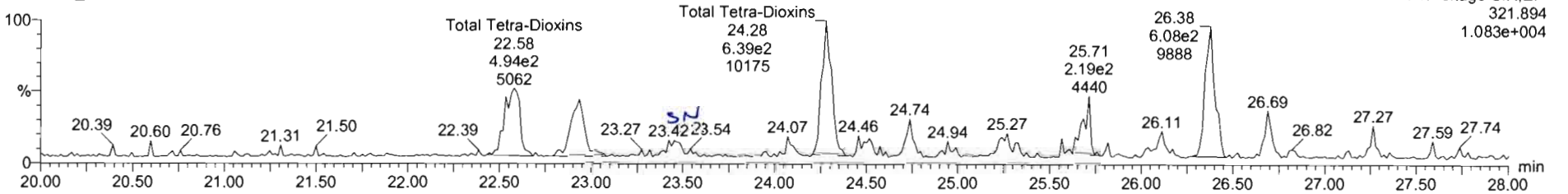
Name: 201216R1_10, Date: 16-Dec-2020, Time: 15:17:22, ID: 2002493-08 USMPDI-014SC-A-13-14-201109 16, Description: USMPDI-014SC-A-13-14-201109

2,3,7,8-TCDD

201216R1_10

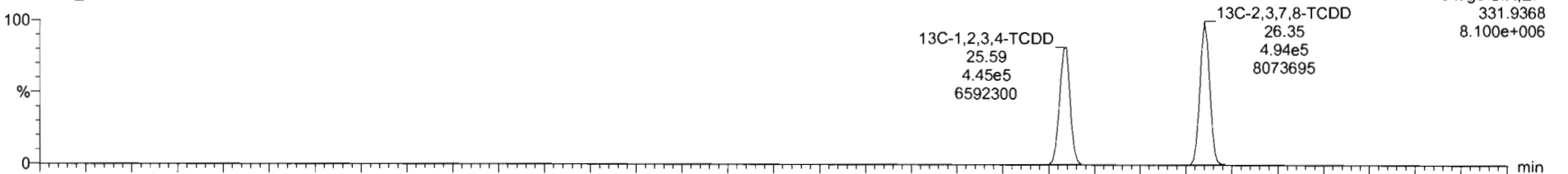


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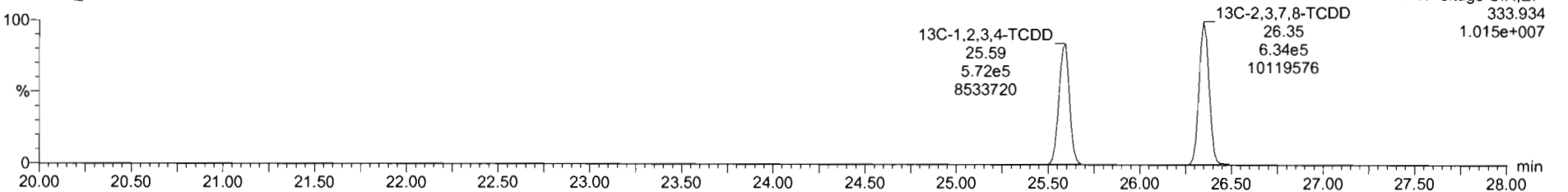


13C-2,3,7,8-TCDD

201216R1_10

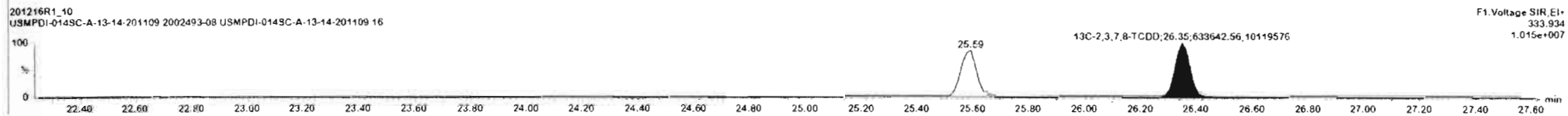
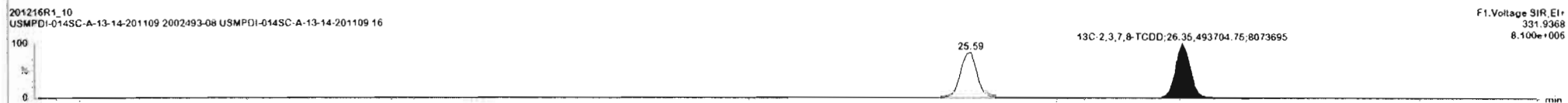
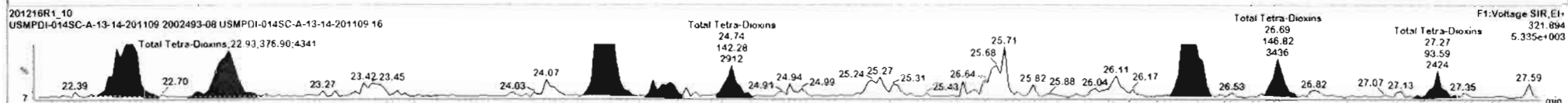
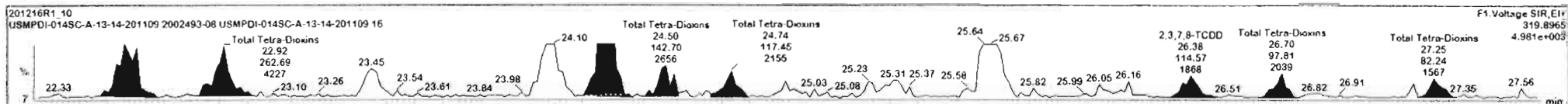


201216R1_10



Name	Resp	RA	nly	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9805	10.340			0.587		0.0263	0.672

Name	RT	mt Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Tetra-Dioxins	22.96	3.627e2	4.920e2	0.74	NO	0.14955
2	Total Tetra-Dioxins	22.92	2.627e2	3.769e2	0.70	NO	0.11192
3	Total Tetra-Dioxins	24.31	5.414e2	6.391e2	0.85	NO	0.20857
4	Total Tetra-Dioxins	24.50	1.427e2	1.245e2	1.15	YES	0.056571
5	Total Tetra-Dioxins	24.74	1.175e2	1.423e2	0.83	NO	0.045449
6	2,3,7,8-TCDD	26.38	1.146e2	5.946e2	0.19	YES	0.046083
7	Total Tetra-Dioxins	26.70	9.781e1	1.468e2	0.67	NO	0.042808
8	Total Tetra-Dioxins	27.25	8.224e1	9.359e1	0.88	NO	0.030768



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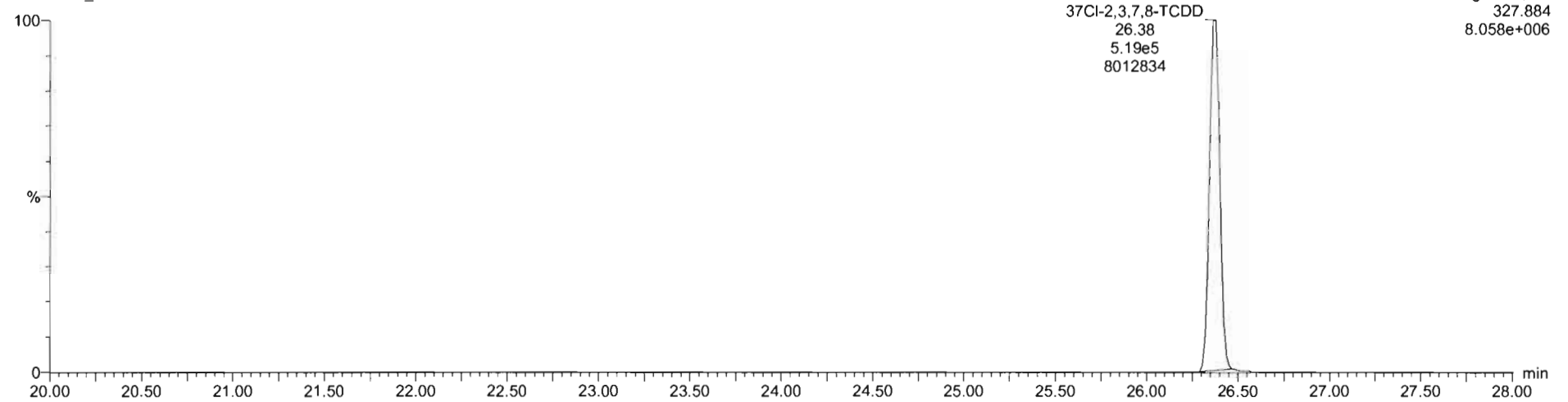
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

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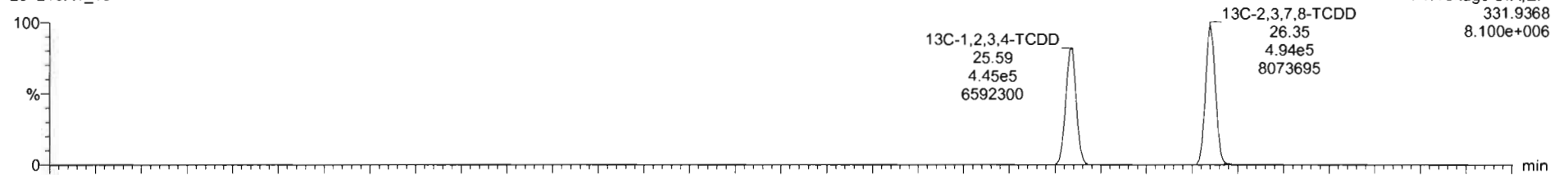
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201216R1_10

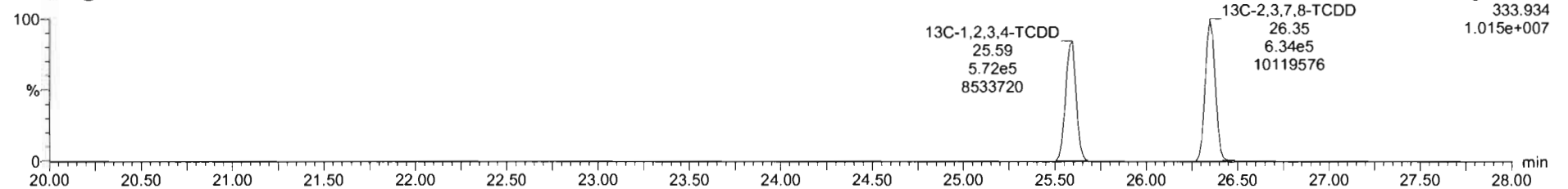


13C-1,2,3,4-TCDD

201216R1_10



201216R1_10



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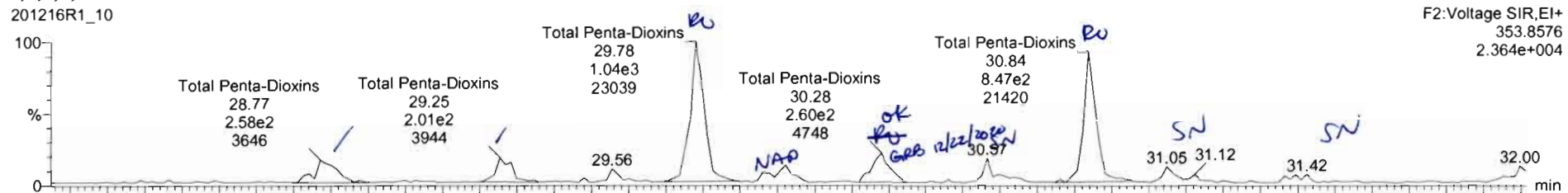
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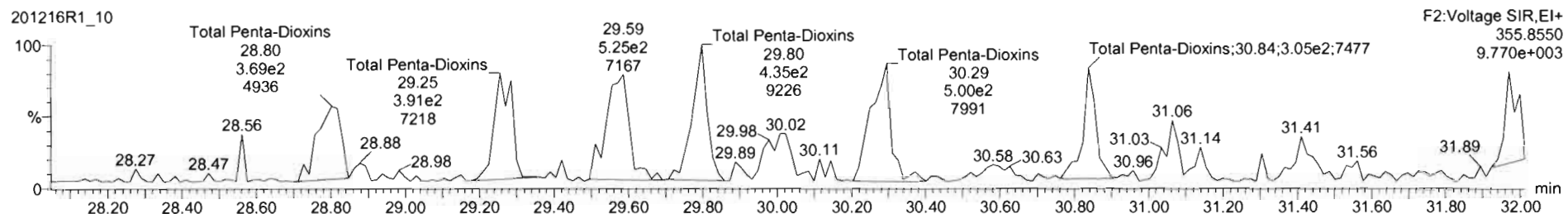
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1,2,3,7,8-PeCDD

201216R1_10

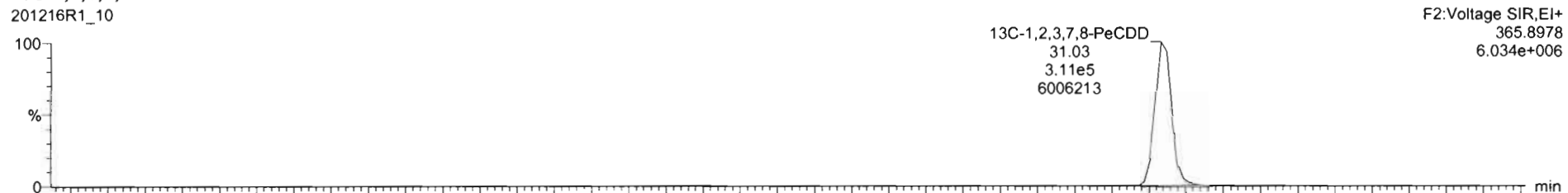


201216R1_10

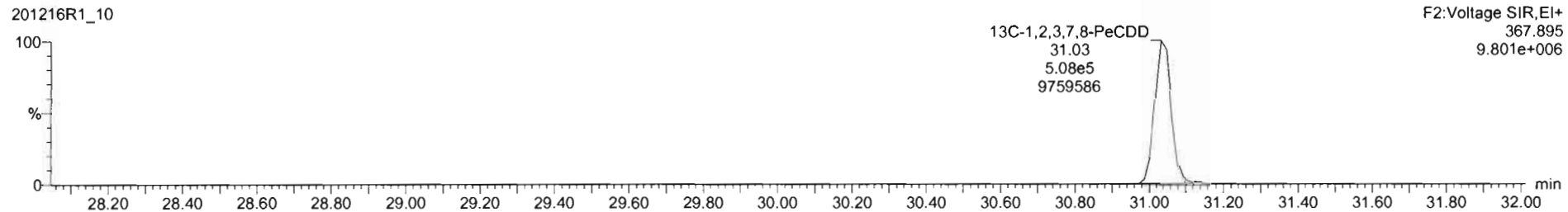


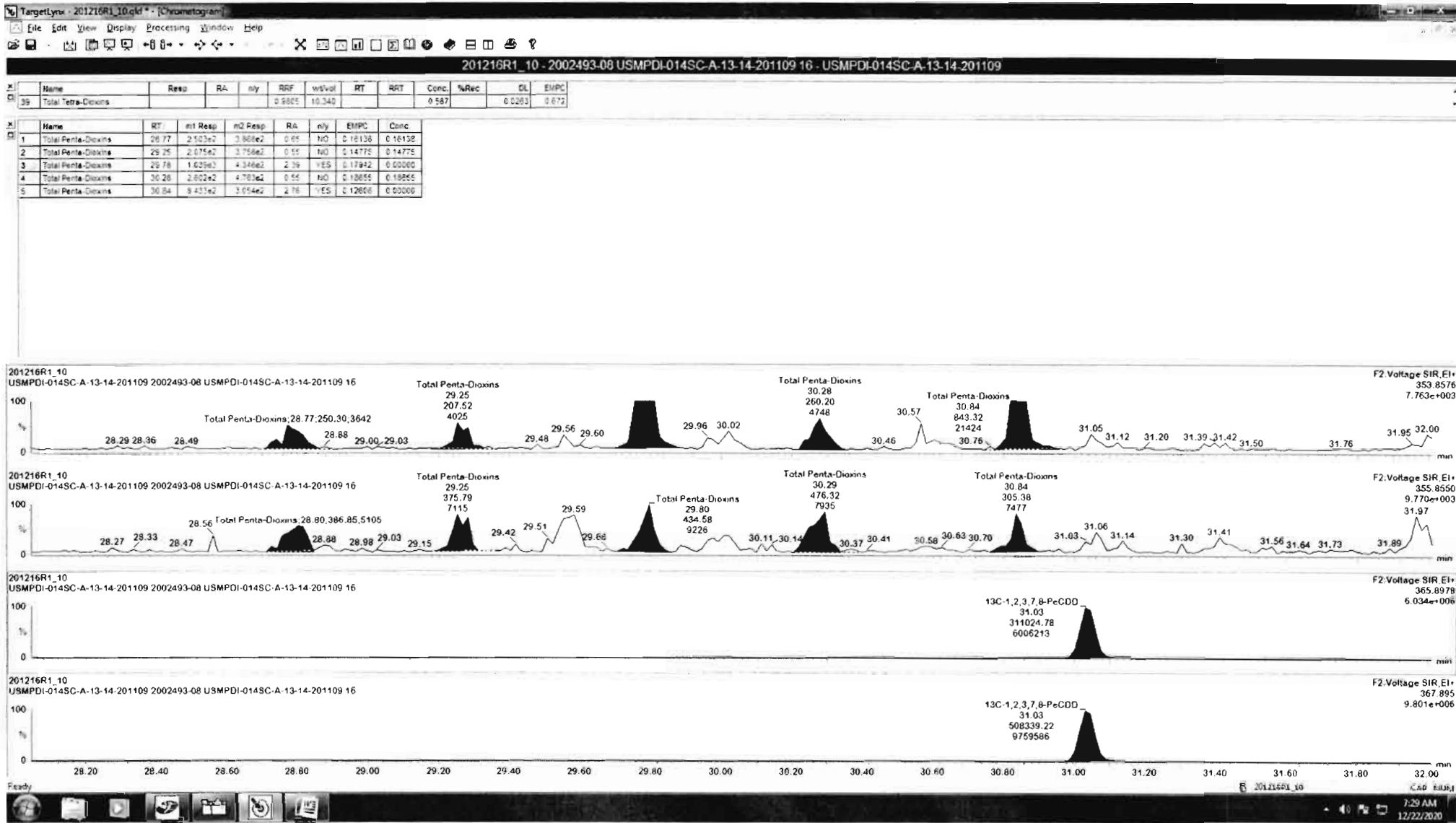
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201216R1_10



201216R1_10





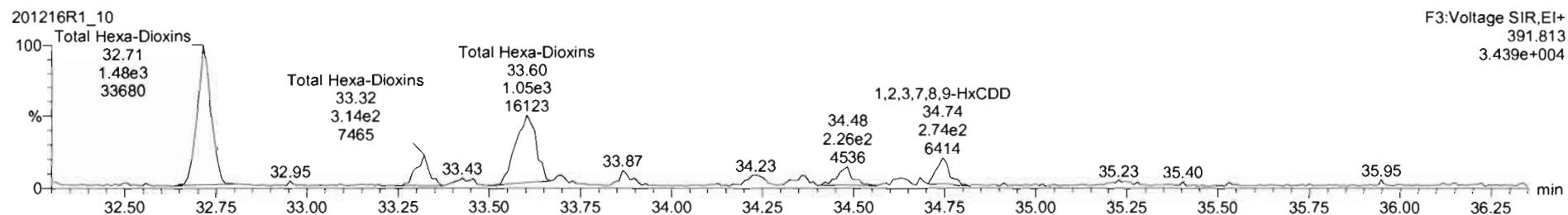
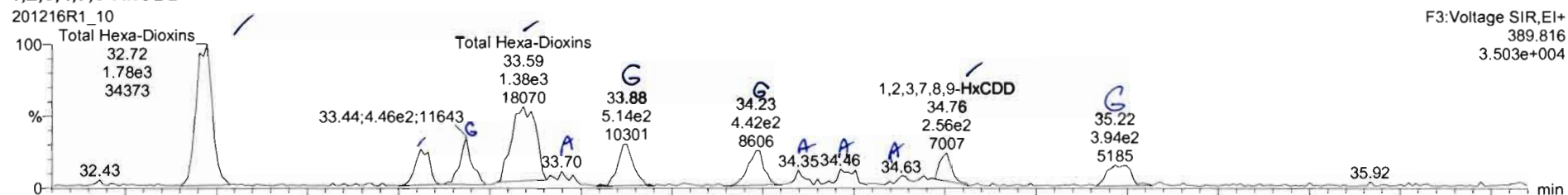
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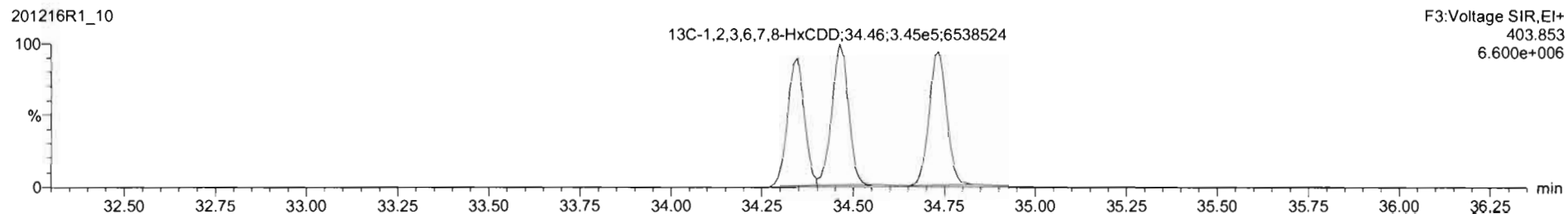
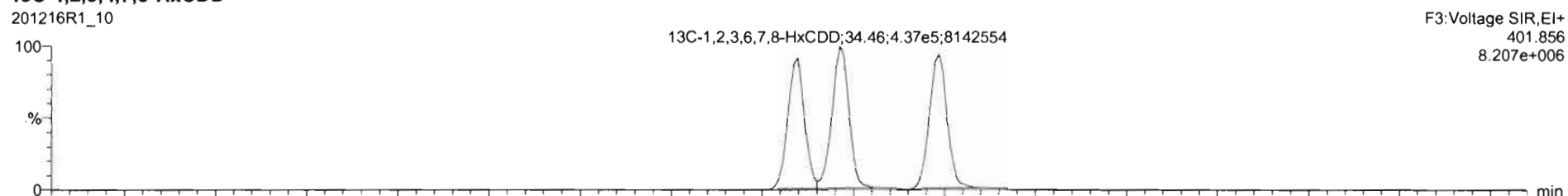
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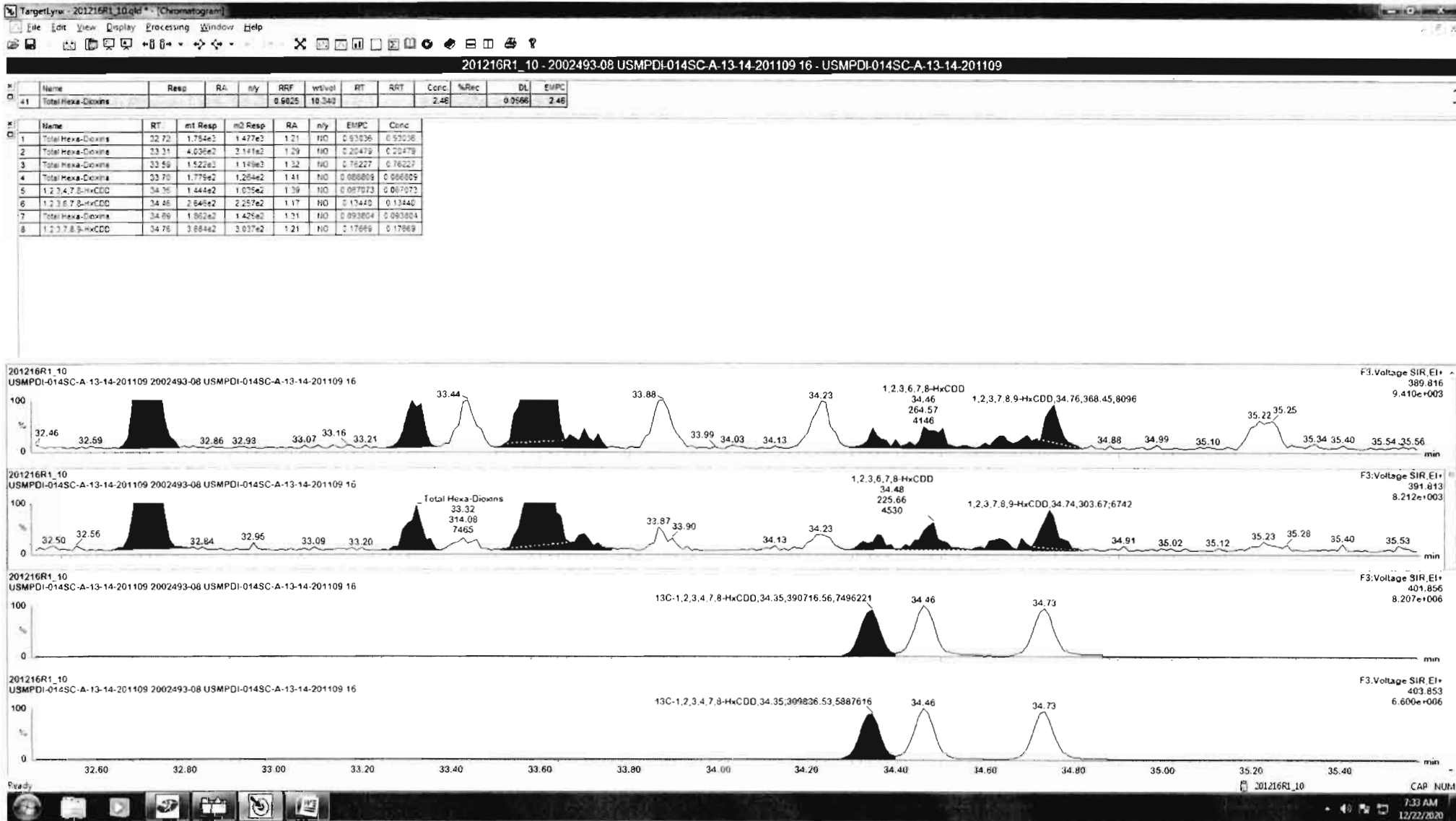
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1,2,3,4,7,8-HxCDD



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





Dataset: Untitled

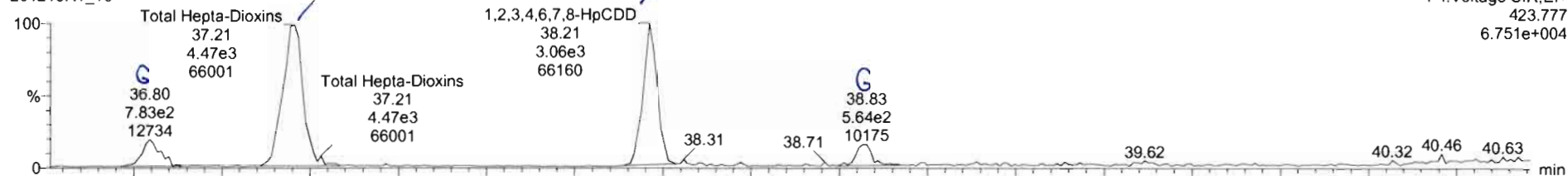
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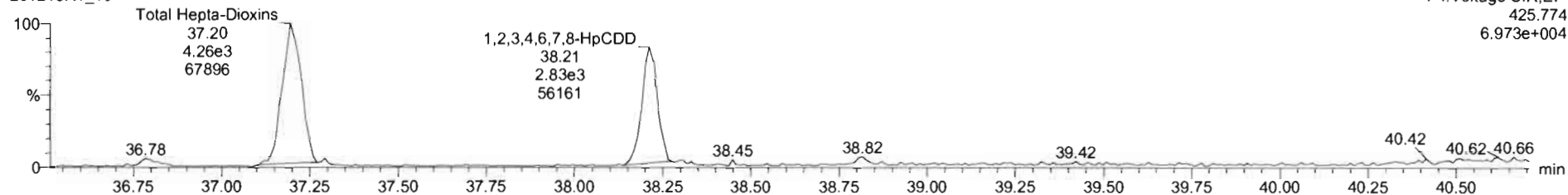
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1,2,3,4,6,7,8-HpCDD

201216R1_10

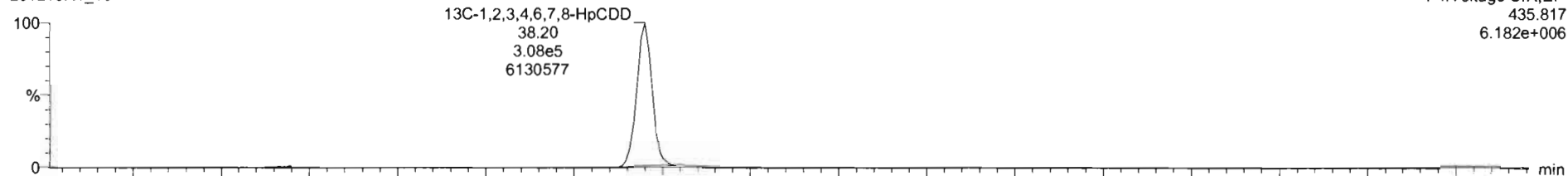


201216R1_10

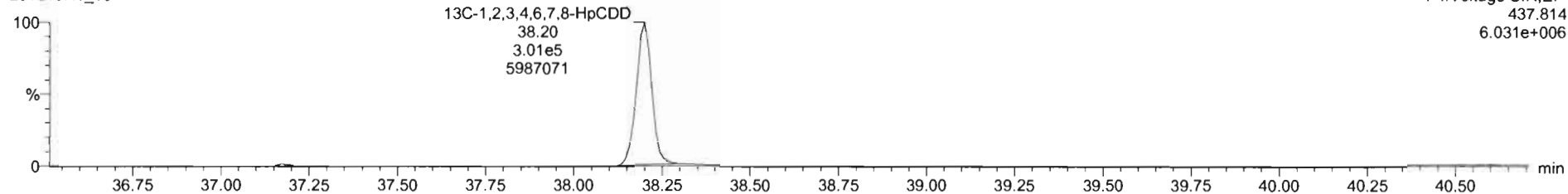


13C-1,2,3,4,6,7,8-HpCDD

201216R1_10



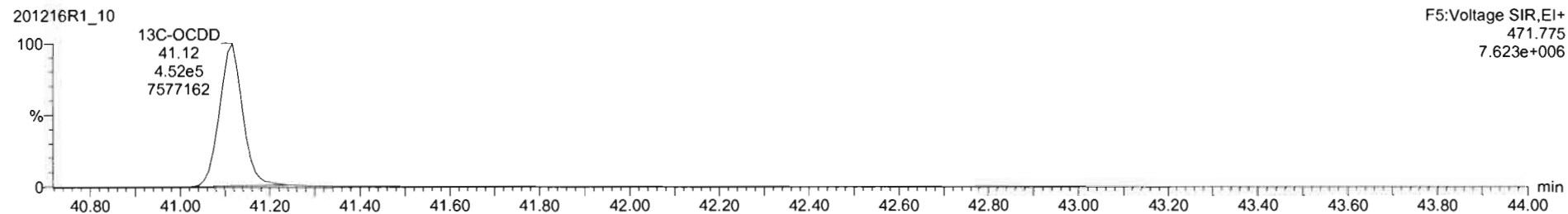
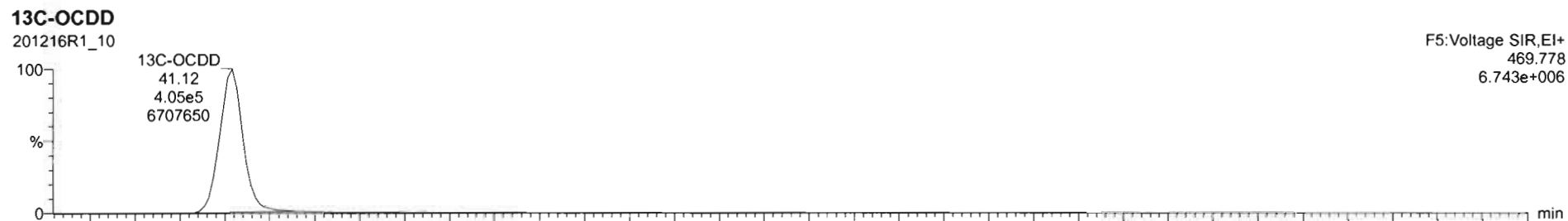
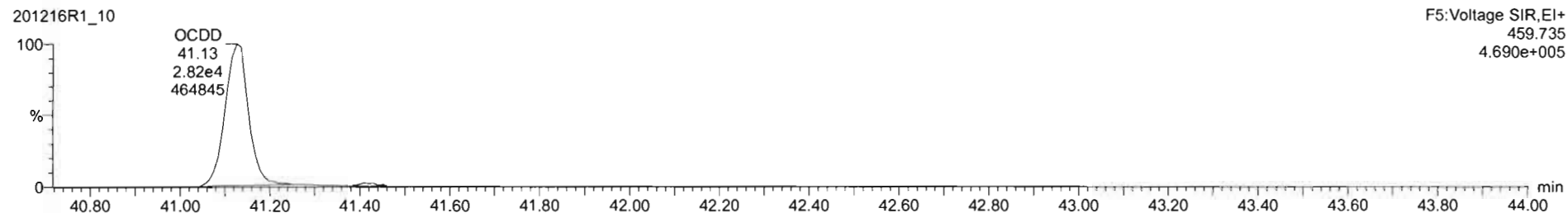
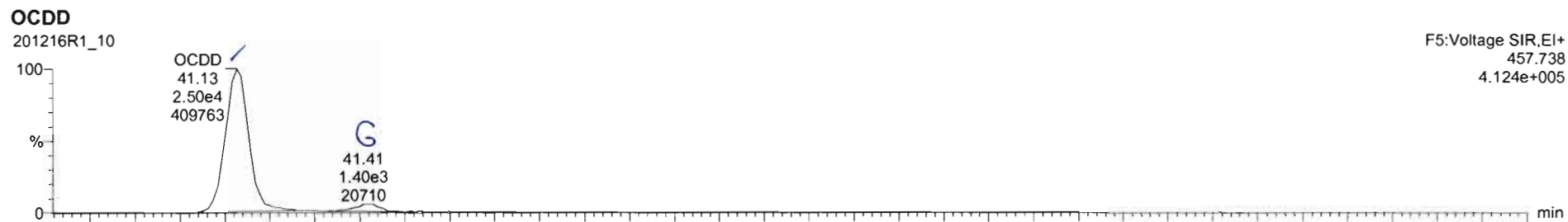
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_10, Date: 16-Dec-2020, Time: 15:17:22, ID: 2002493-08 USMPDI-014SC-A-13-14-201109 16, Description: USMPDI-014SC-A-13-14-201109



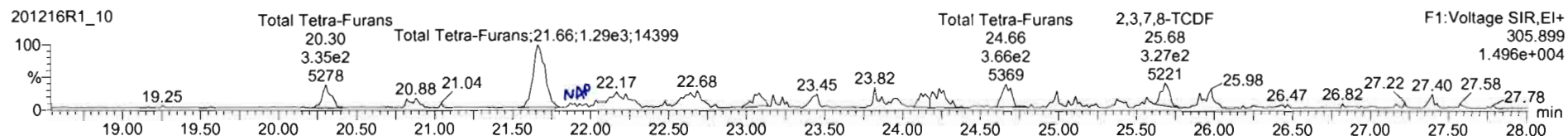
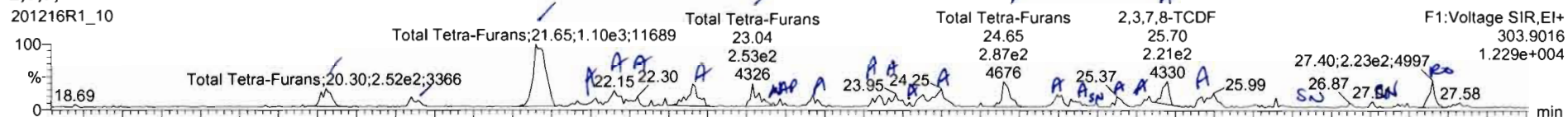
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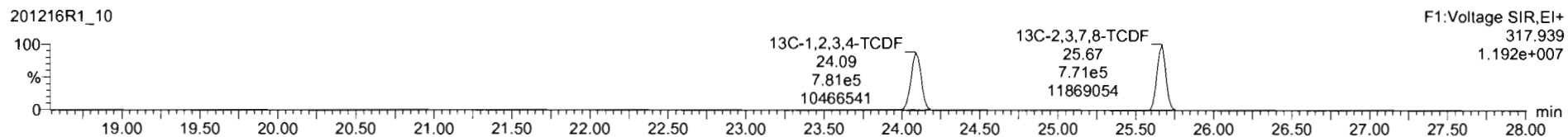
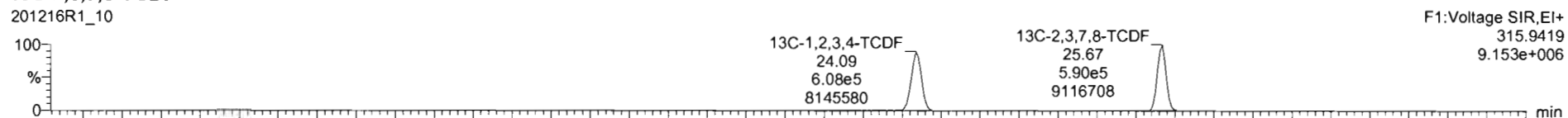
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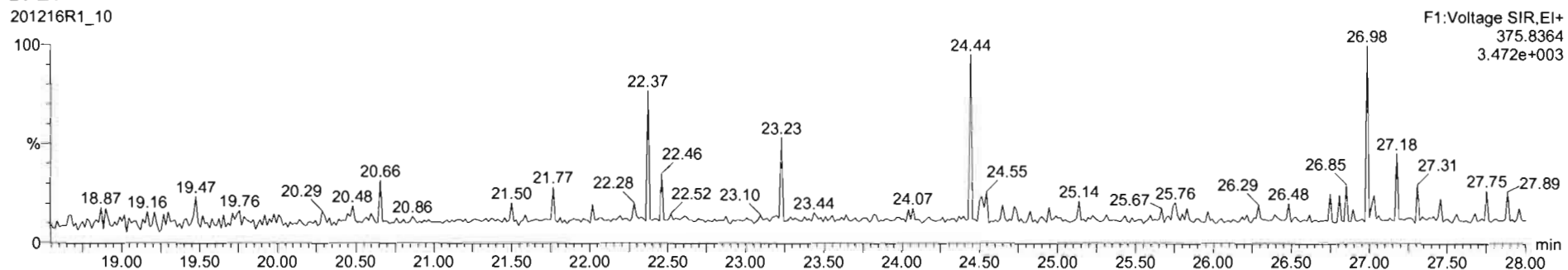
2,3,7,8-TCDF

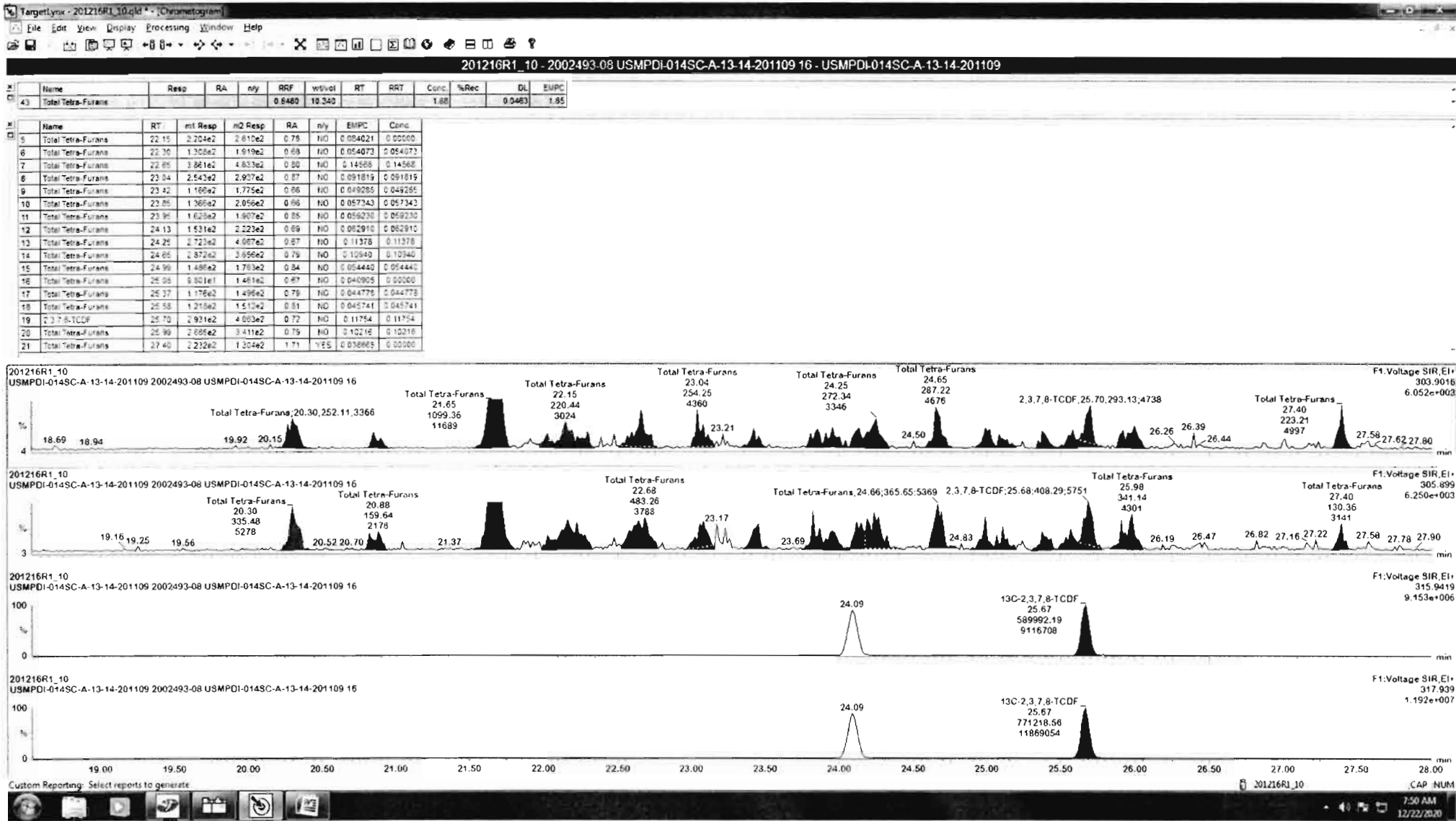


13C-2,3,7,8-TCDF



DPE1





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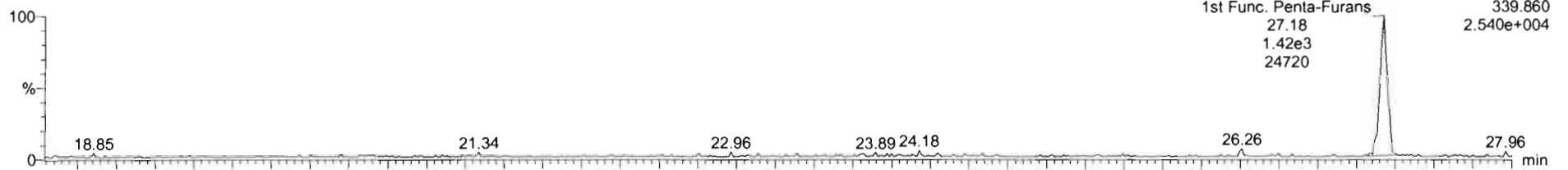
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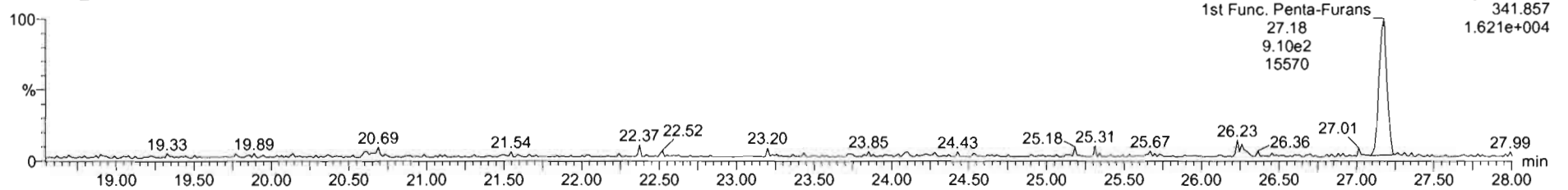
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201216R1_10

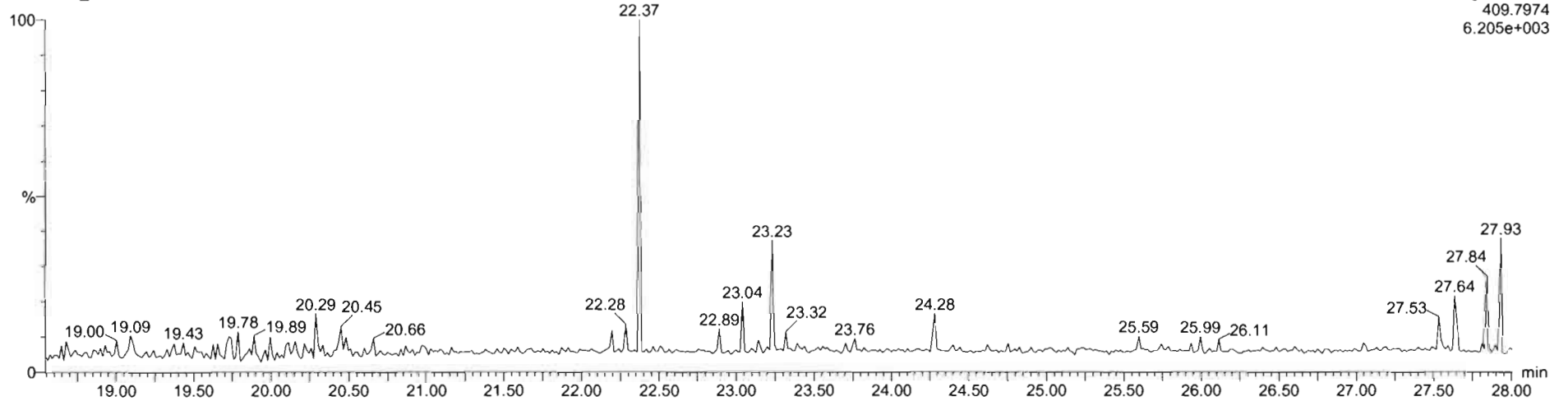


201216R1_10



DPE6

201216R1_10



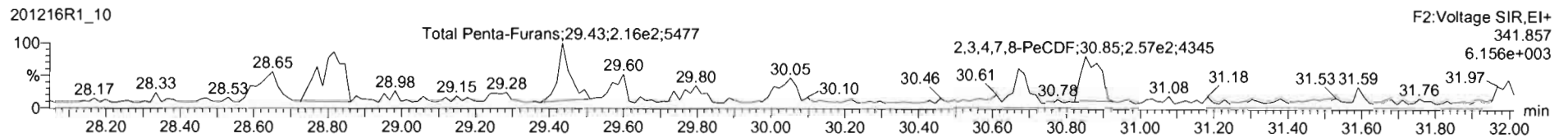
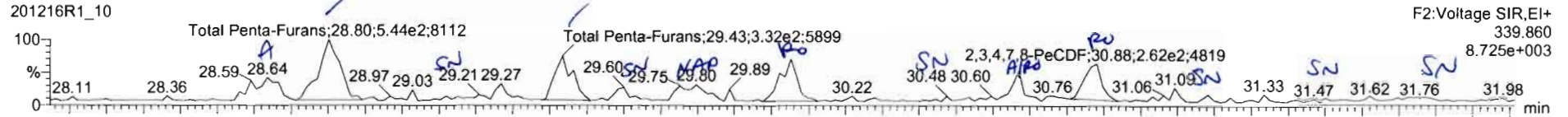
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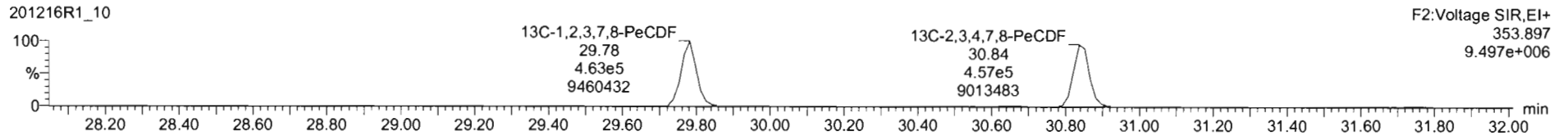
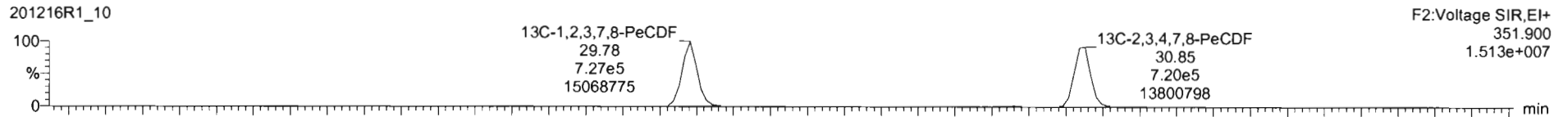
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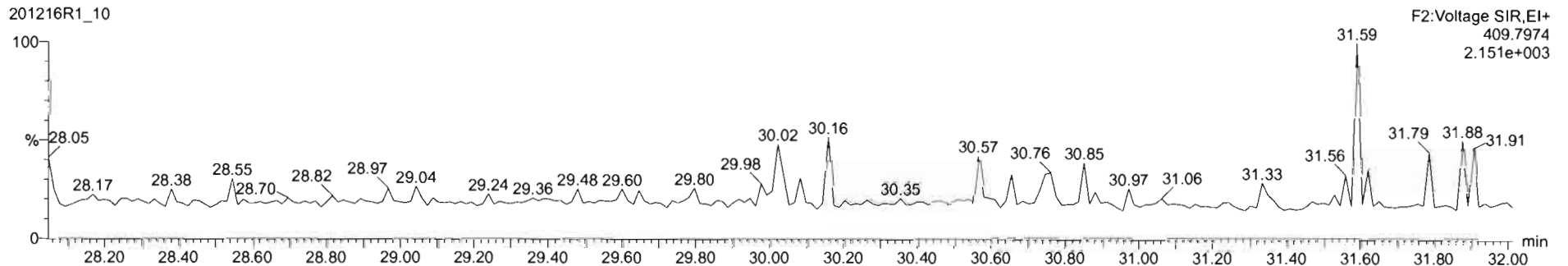
1,2,3,7,8-PeCDF



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



DPE2



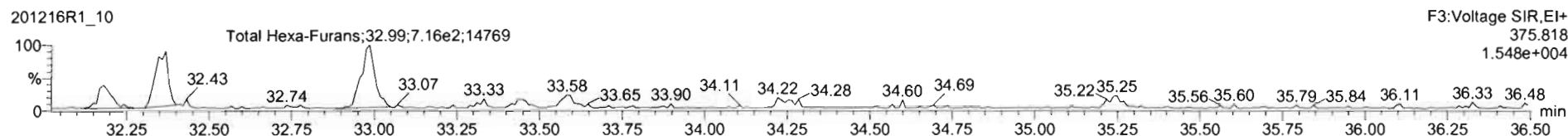
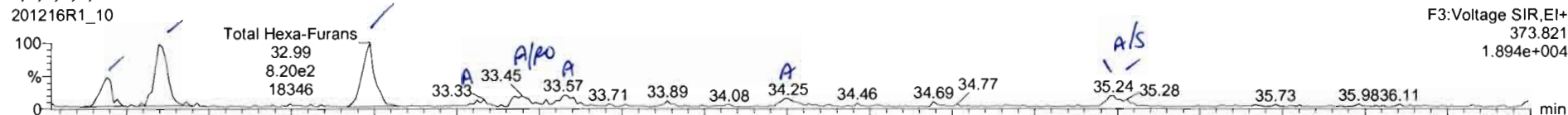
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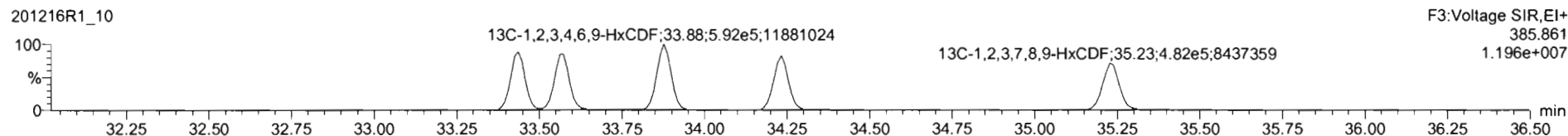
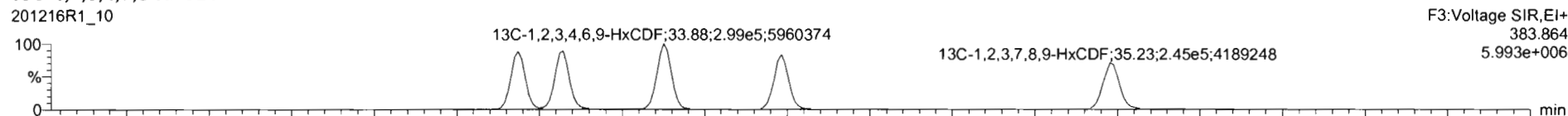
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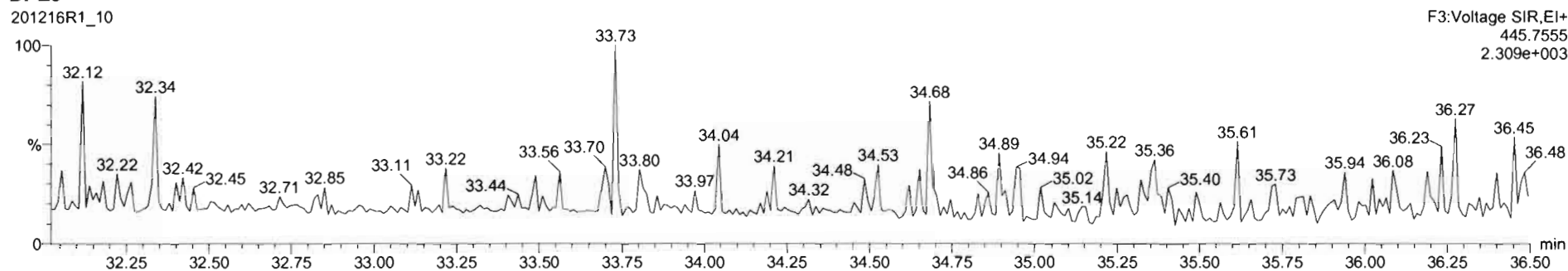
1,2,3,4,7,8-HxCDF

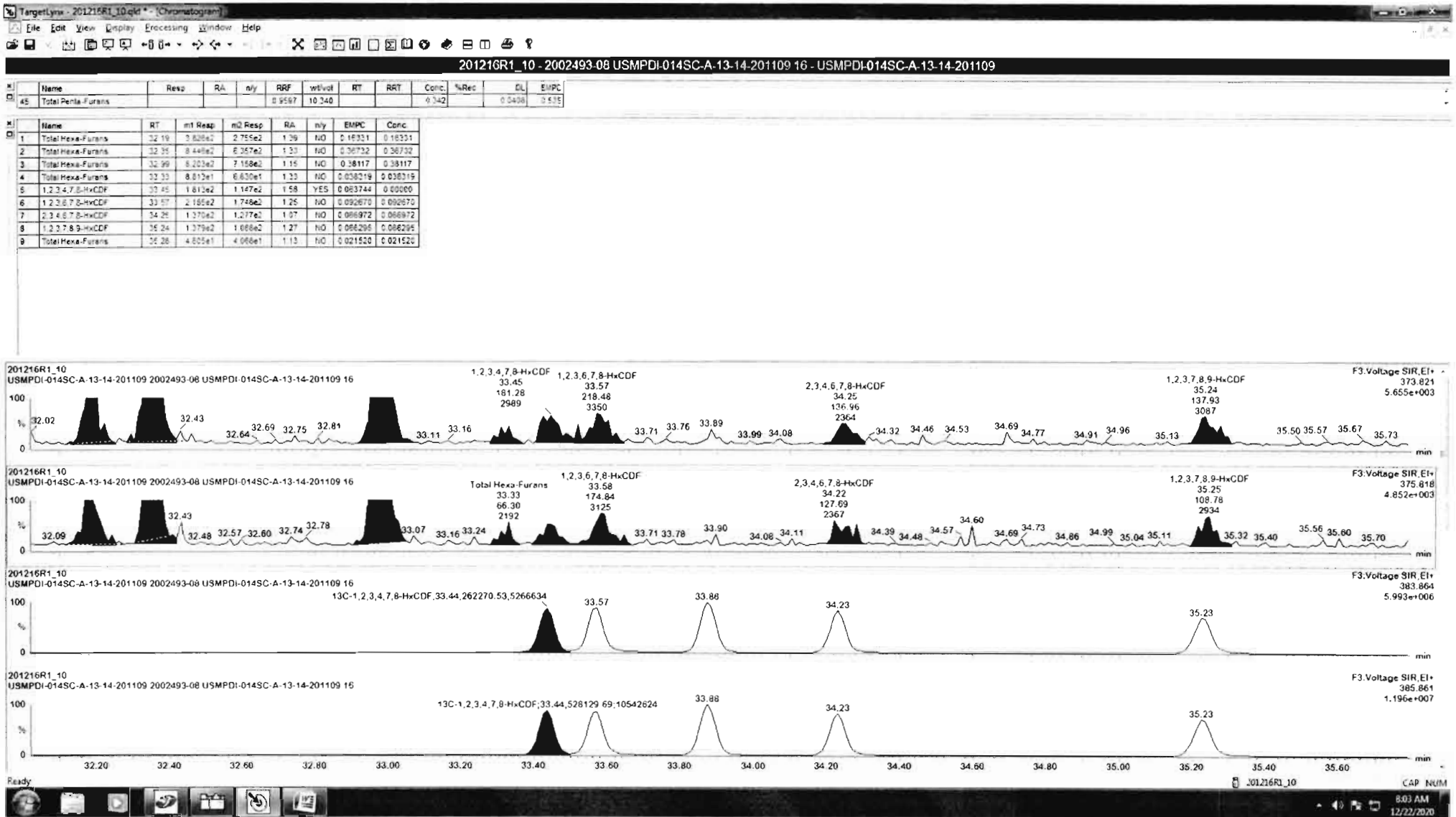


13C-1,2,3,4,7,8-HxCDF



DPE3





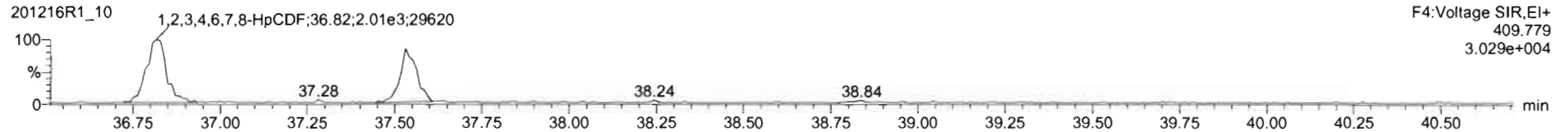
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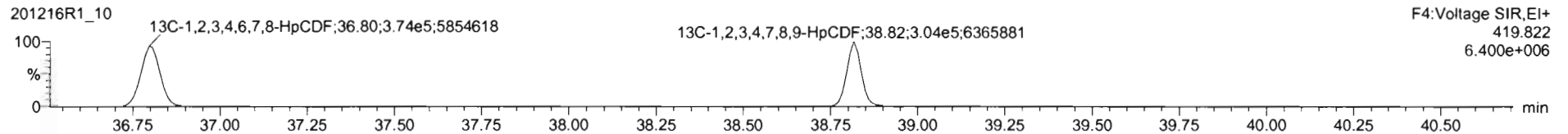
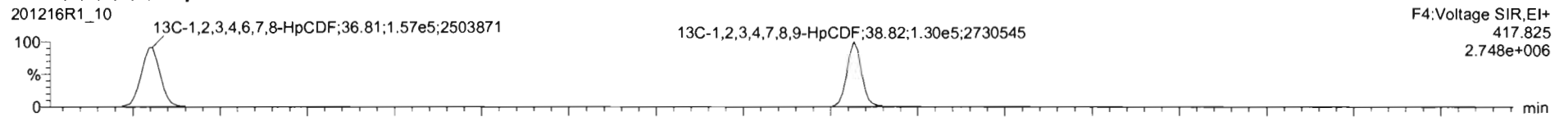
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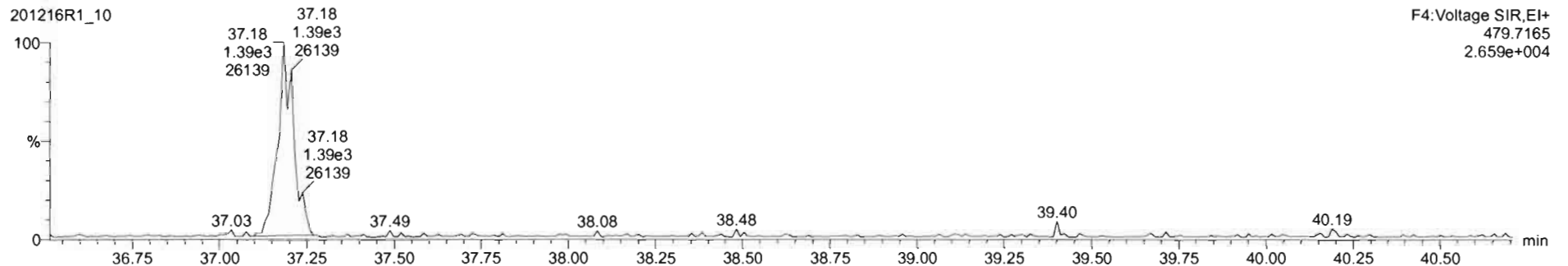
1,2,3,4,6,7,8-HpCDF



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



DPE4

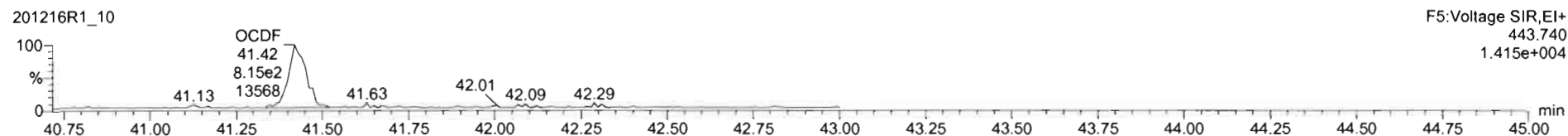
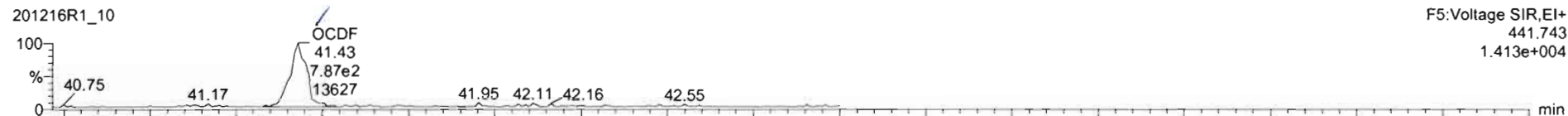


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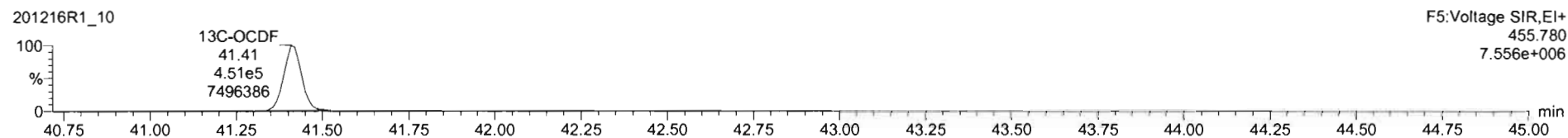
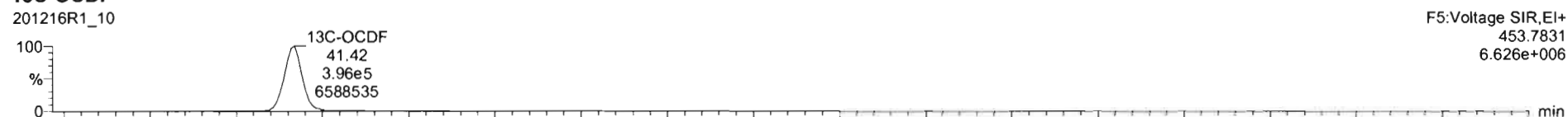
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

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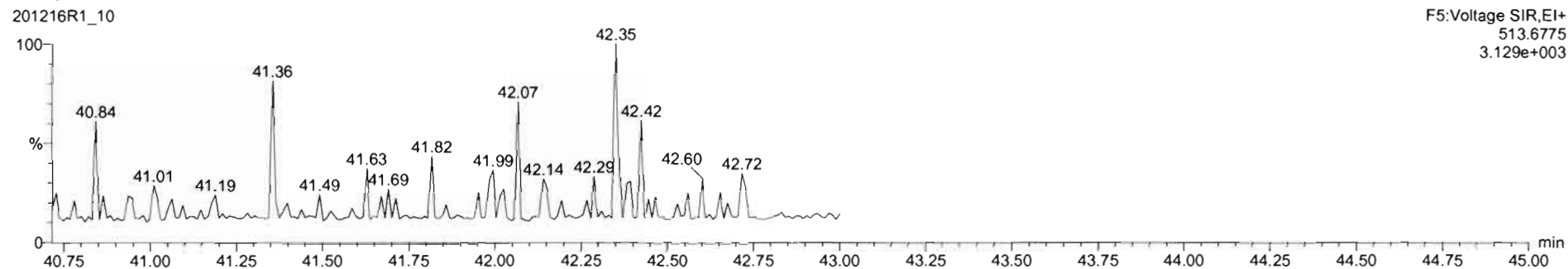
OCDF



13C-OCDF



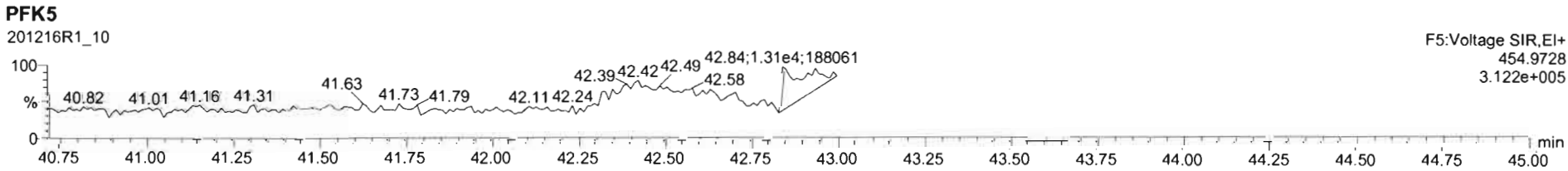
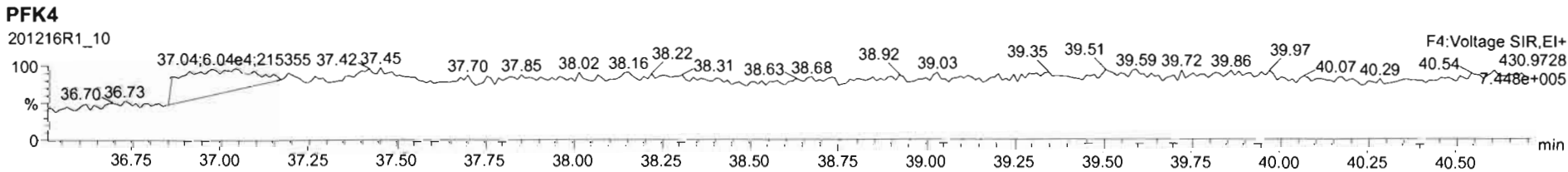
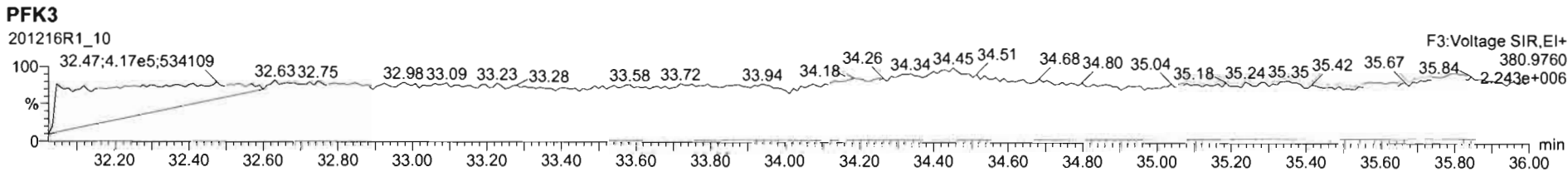
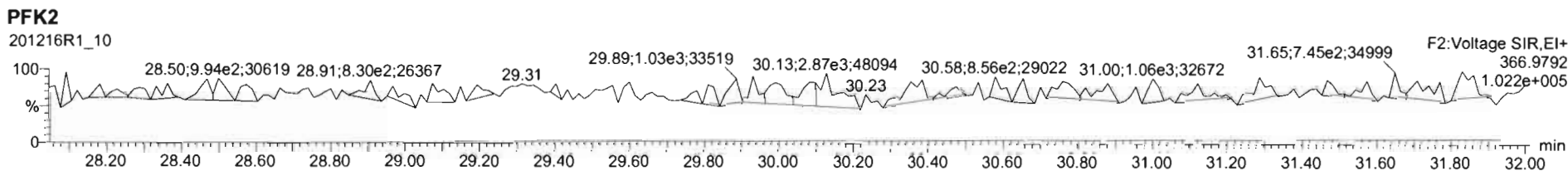
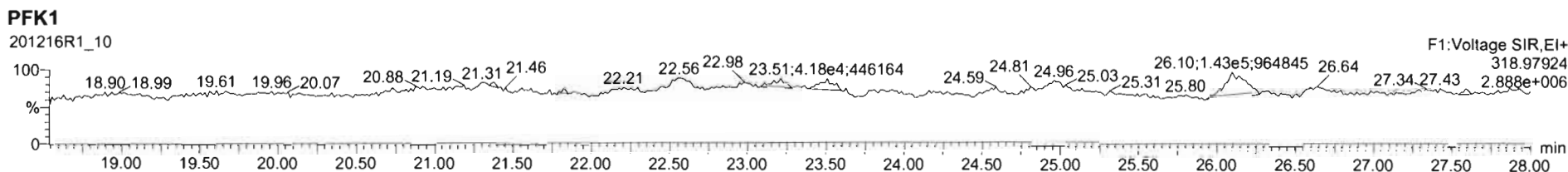
DPE5



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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_11.qld

Last Altered: Tuesday, December 22, 2020 8:29:04 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 8:29:47 AM Pacific Standard Time

GPB 12/22/2020

Method: Untitled 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

MW 12/20/20

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#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.06e3	0.41	YES	0.980	10.273	26.396	26.39	1.001	1.001	0.18660		0.0196	0.125
2	2 1,2,3,7,8-PeCDD	1.09e3	0.71	NO	0.932	10.273	31.079	31.06	1.001	1.000	0.25514		0.0788	0.255
3	3 1,2,3,4,7,8-HxCDD	2.46e3	1.21	NO	1.02	10.273	34.379	34.38	1.001	1.001	0.67735		0.242	0.677
4	4 1,2,3,6,7,8-HxCDD	1.82e4	1.23	NO	0.902	10.273	34.494	34.49	1.001	1.001	5.0981		0.253	5.10
5	5 1,2,3,7,8,9-HxCDD	5.20e3	1.34	NO	0.954	10.273	34.755	34.77	1.000	1.001	1.4393		0.253	1.44
6	6 1,2,3,4,6,7,8-HpCDD	1.21e6	1.01	NO	0.918	10.273	38.222	38.22	1.000	1.000	406.41		1.03	406
7	7 OCDD	7.27e6	0.87	NO	0.866	10.273	41.124	41.14	1.000	1.001	3378.7		0.919	3380
8	8 2,3,7,8-TCDF	8.84e4	0.74	NO	0.848	10.273	25.672	25.70	1.000	1.001	15.113		0.0630	15.1
9	9 1,2,3,7,8-PeCDF	1.36e5	1.52	NO	0.960	10.273	29.785	29.80	1.000	1.000	23.071		0.112	23.1
10	10 2,3,4,7,8-PeCDF	8.78e4	1.60	NO	1.07	10.273	30.874	30.87	1.001	1.000	14.682		0.101	14.7
11	11 1,2,3,4,7,8-HxCDF	1.38e5	1.21	NO	0.986	10.273	33.447	33.46	1.000	1.001	34.133		0.103	34.1
12	12 1,2,3,6,7,8-HxCDF	3.40e4	1.24	NO	1.04	10.273	33.592	33.59	1.001	1.001	8.1270		0.0958	8.13
13	13 2,3,4,6,7,8-HxCDF	1.08e4	1.21	NO	1.02	10.273	34.264	34.27	1.001	1.001	2.9115		0.117	2.91
14	14 1,2,3,7,8,9-HxCDF	6.82e3	1.24	NO	0.991	10.273	35.248	35.28	1.000	1.001	1.9775		0.136	1.98
15	15 1,2,3,4,6,7,8-HpCDF	9.16e4	1.01	NO	1.05	10.273	36.835	36.83	1.000	1.000	31.633		0.269	31.6
16	16 1,2,3,4,7,8,9-HpCDF	1.86e4	0.99	NO	1.18	10.273	38.839	38.84	1.000	1.000	6.8294		0.218	6.83
17	17 OCDF	2.88e5	0.86	NO	0.896	10.273	41.417	41.42	1.000	1.000	133.35		0.260	133
18	18 13C-2,3,7,8-TCDD	1.13e6	0.77	NO	1.06	10.273	26.368	26.36	1.030	1.030	217.83	112	0.122	
19	19 13C-1,2,3,7,8-PeCDD	8.91e5	0.63	NO	0.785	10.273	31.211	31.05	1.219	1.213	232.13	119	0.240	
20	20 13C-1,2,3,4,7,8-HxCDD	6.94e5	1.27	NO	0.621	10.273	34.348	34.36	1.014	1.014	262.90	135	0.495	
21	21 13C-1,2,3,6,7,8-HxCDD	7.71e5	1.27	NO	0.734	10.273	34.470	34.47	1.017	1.017	247.04	127	0.418	
22	22 13C-1,2,3,7,8,9-HxCDD	7.37e5	1.24	NO	0.723	10.273	34.755	34.74	1.026	1.025	239.79	123	0.425	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.31e5	1.04	NO	0.568	10.273	38.255	38.21	1.129	1.128	261.16	134	0.766	
24	24 13C-OCDD	9.67e5	0.88	NO	0.496	10.273	41.193	41.12	1.216	1.213	458.74	118	0.685	
25	25 13C-2,3,7,8-TCDF	1.34e6	0.77	NO	0.919	10.273	25.667	25.67	1.003	1.003	215.19	111	0.164	
26	26 13C-1,2,3,7,8-PeCDF	1.19e6	1.58	NO	0.715	10.273	29.921	29.78	1.169	1.164	245.55	126	0.186	
27	27 13C-2,3,4,7,8-PeCDF	1.09e6	1.56	NO	0.689	10.273	31.008	30.85	1.212	1.205	233.41	120	0.193	
28	28 13C-1,2,3,4,7,8-HxCDF	7.97e5	0.50	NO	0.873	10.273	33.453	33.44	0.987	0.987	214.62	110	0.384	
29	29 13C-1,2,3,6,7,8-HxCDF	7.84e5	0.50	NO	0.933	10.273	33.582	33.57	0.991	0.991	197.41	101	0.360	
30	30 13C-2,3,4,6,7,8-HxCDF	7.06e5	0.50	NO	0.843	10.273	34.250	34.24	1.011	1.011	196.94	101	0.398	
31	31 13C-1,2,3,7,8,9-HxCDF	6.77e5	0.50	NO	0.780	10.273	35.249	35.24	1.040	1.040	204.21	105	0.430	

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Name: 201216R1_11, Date: 16-Dec-2020, Time: 16:03:03, ID: 2002493-09 USMPDI-057SC-A-03-04-201109 14.16, Description: USMPDI-057SC-A-03-04-201109

#	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	5.37e5	0.43	NO	0.726	10.273	36.825	36.82	1.087	1.086	173.82	89.3	0.503	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.51e5	0.43	NO	0.491	10.273	38.835	38.83	1.146	1.146	215.73	111	0.744	
34	34 13C-OCDF	9.40e5	0.87	NO	0.565	10.273	41.410	41.41	1.222	1.222	390.85	100	0.342	
35	35 37Cl-2,3,7,8-TCDD	5.08e5			1.22	10.273	26.363	26.38	1.030	1.031	85.250	109	0.0224	
36	36 13C-1,2,3,4-TCDD	9.53e5	0.77	NO	1.00	10.273	25.640	25.59	1.000	1.000	194.68	100	0.129	
37	37 13C-1,2,3,4-TCDF	1.32e6	0.78	NO	1.00	10.273	24.130	24.10	1.000	1.000	194.68	100	0.150	
38	38 13C-1,2,3,4,6,9-HxCDF	8.28e5	0.49	NO	1.00	10.273	33.920	33.89	1.000	1.000	194.68	100	0.336	
39	39 Total Tetra-Dioxins				0.980	10.273	24.620		0.000		2.6278		0.0196	2.98
40	40 Total Penta-Dioxins				0.932	10.273	29.960		0.000		4.9118		0.0788	5.51
41	41 Total Hexa-Dioxins				0.902	10.273	33.635		0.000		84.320		0.264	84.3
42	42 Total Hepta-Dioxins				0.918	10.273	37.640		0.000		918.74		1.03	919
43	43 Total Tetra-Furans				0.848	10.273	23.610		0.000		44.583		0.0630	47.6
44	44 1st Func. Penta-Furans				0.960	10.273	26.930		0.000		12.429		0.0222	12.4
45	45 Total Penta-Furans				0.960	10.273	29.275		0.000		67.070		0.112	67.1
46	46 Total Hexa-Furans				1.02	10.273	33.555		0.000		75.583		0.110	75.6
47	47 Total Hepta-Furans				1.05	10.273	37.835		0.000		114.73		0.258	115

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_11, Date: 16-Dec-2020, Time: 16:03:03, ID: 2002493-09 USMPDI-057SC-A-03-04-201109 14.16, Description: USMPDI-057SC-A-03-04-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.58	3.304e4	4.944e4	3.032e3	3.911e3	0.78	NO	6.943e3	1.2251	1.2251	0.0196
2	Total Tetra-Dioxins	22.93	5.266e3	8.995e3	4.662e2	6.236e2	0.75	NO	1.090e3	0.19232	0.19232	0.0196
3	Total Tetra-Dioxins	23.44	3.994e3	4.931e3	3.452e2	4.543e2	0.76	NO	7.995e2	0.14108	0.14108	0.0196
4	Total Tetra-Dioxins	24.31	3.439e3	4.777e3	2.152e2	3.247e2	0.66	NO	5.398e2	0.095263	0.095263	0.0196
5	Total Tetra-Dioxins	24.53	6.968e3	8.074e3	5.209e2	6.711e2	0.78	NO	1.192e3	0.21033	0.21033	0.0196
6	Total Tetra-Dioxins	24.72	8.526e3	6.217e3	4.519e2	5.154e2	0.88	NO	9.673e2	0.17069	0.17069	0.0196
7	Total Tetra-Dioxins	24.96	2.425e3	3.559e3	1.575e2	2.182e2	0.72	NO	3.757e2	0.066298	0.066298	0.0196
8	Total Tetra-Dioxins	25.25	2.714e3	5.371e3	1.763e2	2.710e2	0.65	YES	0.000e0	0.00000	0.071534	0.0196
9	Total Tetra-Dioxins	25.30	4.142e3	4.330e3	2.076e2	2.506e2	0.83	NO	4.582e2	0.080863	0.080863	0.0196
10	Total Tetra-Dioxins	25.71	7.540e3	6.349e3	7.584e2	5.109e2	1.48	YES	0.000e0	0.00000	0.15957	0.0196
11	Total Tetra-Dioxins	25.82	2.088e3	1.883e3	1.030e2	1.208e2	0.85	NO	2.237e2	0.039480	0.039480	0.0196
12	Total Tetra-Dioxins	26.08	7.202e3	1.084e4	6.928e2	8.279e2	0.84	NO	1.521e3	0.26834	0.26834	0.0196
13	2,3,7,8-TCDD	26.39	4.995e3	1.435e4	3.089e2	7.486e2	0.41	YES	1.057e3	0.00000	0.12529	0.0196
14	Total Tetra-Dioxins	26.67	3.020e3	5.729e3	2.171e2	2.854e2	0.76	NO	5.024e2	0.088662	0.088662	0.0196
15	Total Tetra-Dioxins	27.27	3.050e3	2.310e3	1.275e2	1.522e2	0.84	NO	2.797e2	0.049364	0.049364	0.0196

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.80	2.943e4	5.515e4	2.415e3	4.103e3	0.59	NO	6.519e3	1.5277	1.5277	0.0788
2	Total Penta-Dioxins	29.28	1.717e4	2.889e4	9.472e2	1.565e3	0.61	NO	2.513e3	0.58883	0.58883	0.0788
3	Total Penta-Dioxins	29.80	4.650e4	5.720e4	2.104e3	2.918e3	0.72	NO	5.022e3	1.1770	1.1770	0.0788
4	Total Penta-Dioxins	29.99	1.451e4	1.866e4	6.054e2	8.979e2	0.67	NO	0.000e0	0.00000	0.35231	0.0788
5	Total Penta-Dioxins	30.04	1.155e4	2.191e4	5.089e2	8.293e2	0.61	NO	1.338e3	0.31362	0.31362	0.0788
6	Total Penta-Dioxins	30.28	1.916e4	3.036e4	1.244e3	2.052e3	0.61	NO	3.296e3	0.77245	0.77245	0.0788
7	Total Penta-Dioxins	30.60	3.693e3	8.061e3	2.175e2	3.699e2	0.59	NO	5.873e2	0.13765	0.13765	0.0788
8	1,2,3,7,8-PeCDD	31.06	1.181e4	1.150e4	4.535e2	6.352e2	0.71	NO	1.089e3	0.25514	0.25514	0.0788
9	Total Penta-Dioxins	31.14	1.028e4	9.359e3	4.796e2	6.332e2	0.76	YES	0.000e0	0.00000	0.24190	0.0788
10	Total Penta-Dioxins	31.41	6.277e3	6.535e3	2.153e2	3.796e2	0.57	NO	5.948e2	0.13941	0.13941	0.0788

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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	32.72	1.573e6	1.273e6	7.151e4	5.791e4	1.23	NO	1.294e5	38.037	38.037	0.264
2	Total Hexa-Dioxins	33.32	1.543e5	1.198e5	7.202e3	5.811e3	1.24	NO	1.301e4	3.8242	3.8242	0.264
3	Total Hexa-Dioxins	33.61	8.072e5	6.819e5	5.724e4	4.666e4	1.23	NO	1.039e5	30.533	30.533	0.264
4	Total Hexa-Dioxins	33.72	1.039e5	8.867e4	5.381e3	4.627e3	1.16	NO	1.001e4	2.9413	2.9413	0.264
5	1,2,3,4,7,8-HxCDD	34.38	2.465e4	2.304e4	1.347e3	1.116e3	1.21	NO	2.463e3	0.67735	0.67735	0.242
6	1,2,3,6,7,8-HxCDD	34.49	1.868e5	1.559e5	1.004e4	8.183e3	1.23	NO	1.823e4	5.0981	5.0981	0.253
7	Total Hexa-Dioxins	34.65	6.180e4	4.632e4	3.422e3	2.601e3	1.32	NO	6.023e3	1.7700	1.7700	0.264
8	1,2,3,7,8,9-HxCDD	34.77	5.511e4	4.094e4	2.973e3	2.226e3	1.34	NO	5.199e3	1.4393	1.4393	0.253

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.21	1.171e7	1.159e7	7.664e5	7.571e5	1.01	NO	1.523e6	512.32	512.32	1.03
2	1,2,3,4,6,7,8-HpCDD	38.22	1.191e7	1.179e7	6.085e5	6.000e5	1.01	NO	1.209e6	406.41	406.41	1.03

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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	20.32	3.474e3	4.337e3	2.802e2	3.707e2	0.76	NO	6.509e2	0.11128	0.11128	0.0630
2	Total Tetra-Furans	20.89	9.342e3	1.290e4	8.320e2	1.125e3	0.74	NO	1.957e3	0.33461	0.33461	0.0630
3	Total Tetra-Furans	21.71	4.778e4	6.148e4	4.677e3	5.766e3	0.81	NO	1.044e4	1.7852	1.7852	0.0630
4	Total Tetra-Furans	22.06	4.434e3	4.839e3	3.503e2	4.136e2	0.85	NO	7.640e2	0.13060	0.13060	0.0630
5	Total Tetra-Furans	22.15	9.353e3	1.293e4	9.642e2	1.278e3	0.75	NO	2.243e3	0.38335	0.38335	0.0630
6	Total Tetra-Furans	22.30	7.821e3	9.692e3	5.313e2	6.579e2	0.81	NO	1.189e3	0.20330	0.20330	0.0630
7	Total Tetra-Furans	22.52	8.342e3	9.276e3	3.984e2	4.558e2	0.87	NO	8.542e2	0.14602	0.14602	0.0630
8	Total Tetra-Furans	22.61	1.114e5	1.549e5	1.005e4	1.399e4	0.72	NO	2.404e4	4.1098	4.1098	0.0630
9	Total Tetra-Furans	23.10	6.611e4	8.673e4	5.597e3	7.710e3	0.73	NO	1.331e4	2.2748	2.2748	0.0630
10	Total Tetra-Furans	23.23	4.750e3	6.981e3	3.333e2	3.831e2	0.87	NO	7.165e2	0.12248	0.12248	0.0630
11	Total Tetra-Furans	23.44	1.997e4	2.356e4	1.368e3	1.728e3	0.79	NO	3.096e3	0.52931	0.52931	0.0630
12	Total Tetra-Furans	23.87	5.359e3	7.042e3	3.751e2	4.763e2	0.79	NO	8.514e2	0.14554	0.14554	0.0630
13	Total Tetra-Furans	23.98	3.828e3	5.348e3	2.628e2	3.049e2	0.86	NO	5.677e2	0.097047	0.097047	0.0630
14	Total Tetra-Furans	24.19	4.824e4	7.173e4	2.456e3	3.596e3	0.68	NO	0.000e0	0.00000	1.0347	0.0630
15	Total Tetra-Furans	24.23	5.292e4	7.912e4	4.061e3	5.698e3	0.71	NO	0.000e0	0.00000	1.6682	0.0630
16	Total Tetra-Furans	24.53	7.452e3	1.300e4	4.940e2	6.539e2	0.76	NO	1.148e3	0.19622	0.19622	0.0630
17	Total Tetra-Furans	24.68	4.765e5	6.573e5	3.394e4	4.648e4	0.73	NO	8.043e4	13.749	13.749	0.0630
18	Total Tetra-Furans	25.00	1.908e4	2.535e4	1.155e3	1.555e3	0.74	NO	2.710e3	0.46327	0.46327	0.0630
19	Total Tetra-Furans	25.40	5.265e3	7.611e3	3.969e2	5.178e2	0.77	NO	9.147e2	0.15637	0.15637	0.0630
20	Total Tetra-Furans	25.57	6.207e4	8.067e4	3.519e3	5.104e3	0.69	NO	8.623e3	1.4740	1.4740	0.0630
21	2,3,7,8-TCDF	25.70	6.016e5	8.204e5	3.758e4	5.083e4	0.74	NO	8.841e4	15.113	15.113	0.0630
22	Total Tetra-Furans	25.98	2.184e4	2.986e4	1.499e3	1.997e3	0.75	NO	3.497e3	0.59773	0.59773	0.0630
23	Total Tetra-Furans	26.26	5.253e3	1.024e4	3.735e2	5.556e2	0.67	NO	9.291e2	0.15883	0.15883	0.0630
24	Total Tetra-Furans	26.36	3.347e3	5.058e3	2.296e2	3.057e2	0.75	NO	5.353e2	0.091508	0.091508	0.0630
25	Total Tetra-Furans	26.88	1.470e4	1.936e4	1.060e3	1.257e3	0.84	NO	2.317e3	0.39601	0.39601	0.0630
26	Total Tetra-Furans	27.03	2.221e4	3.019e4	1.420e3	1.865e3	0.76	NO	3.284e3	0.56147	0.56147	0.0630
27	Total Tetra-Furans	27.19	1.541e4	2.352e4	1.018e3	1.400e3	0.73	NO	2.417e3	0.41326	0.41326	0.0630
28	Total Tetra-Furans	27.40	3.046e4	1.684e4	1.750e3	9.882e2	1.77	YES	0.000e0	0.00000	0.29900	0.0630
29	Total Tetra-Furans	27.58	3.704e4	4.915e4	2.085e3	2.822e3	0.74	NO	4.907e3	0.83877	0.83877	0.0630

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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	27.19	7.225e5	4.389e5	4.306e4	2.690e4	1.60	NO	6.996e4	12.429	12.429	0.0222

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.67	2.066e4	1.409e4	1.514e3	1.030e3	1.47	NO	2.544e3	0.45197	0.45197	0.112
2	Total Penta-Furans	28.82	8.302e5	5.388e5	4.866e4	3.108e4	1.57	NO	7.974e4	14.166	14.166	0.112
3	Total Penta-Furans	29.45	1.050e5	7.061e4	6.217e3	4.141e3	1.50	NO	1.036e4	1.8401	1.8401	0.112
4	Total Penta-Furans	29.60	1.854e5	1.284e5	9.365e3	6.229e3	1.50	NO	1.559e4	2.7704	2.7704	0.112
5	1,2,3,7,8-PeCDF	29.80	1.578e6	1.075e6	8.183e4	5.378e4	1.52	NO	1.356e5	23.071	23.071	0.112
6	Total Penta-Furans	29.87	2.710e4	2.022e4	9.927e2	7.436e2	1.33	NO	1.736e3	0.30846	0.30846	0.112
7	Total Penta-Furans	30.05	5.503e5	3.607e5	2.989e4	1.950e4	1.53	NO	4.939e4	8.7741	8.7741	0.112
8	Total Penta-Furans	30.69	1.418e4	8.105e3	6.322e2	3.823e2	1.65	NO	1.015e3	0.18024	0.18024	0.112
9	2,3,4,7,8-PeCDF	30.87	1.058e6	6.662e5	5.399e4	3.384e4	1.60	NO	8.783e4	14.682	14.682	0.101
10	Total Penta-Furans	31.76	4.653e4	2.890e4	2.904e3	1.738e3	1.67	NO	4.643e3	0.82477	0.82477	0.112

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	9.038e4	7.928e4	4.372e3	3.507e3	1.25	NO	7.879e3	2.0288	2.0288	0.110
2	Total Hexa-Furans	32.36	4.358e5	3.635e5	1.965e4	1.503e4	1.31	NO	3.468e4	8.9291	8.9291	0.110
3	Total Hexa-Furans	32.77	7.535e3	6.065e3	3.683e2	2.779e2	1.33	NO	6.462e2	0.16639	0.16639	0.110
4	Total Hexa-Furans	32.99	6.248e5	5.372e5	2.971e4	2.438e4	1.22	NO	5.409e4	13.927	13.927	0.110
5	Total Hexa-Furans	33.33	1.783e4	1.294e4	8.575e2	6.468e2	1.33	NO	1.504e3	0.38736	0.38736	0.110
6	1,2,3,4,7,8-HxCDF	33.46	1.498e6	1.245e6	7.545e4	6.236e4	1.21	NO	1.378e5	34.133	34.133	0.103
7	1,2,3,6,7,8-HxCDF	33.59	3.857e5	3.014e5	1.882e4	1.516e4	1.24	NO	3.399e4	8.1270	8.1270	0.0958
8	Total Hexa-Furans	33.91	1.254e4	8.949e3	6.412e2	4.666e2	1.37	NO	1.108e3	0.28524	0.28524	0.110
9	Total Hexa-Furans	34.04	6.758e3	6.054e3	3.513e2	3.038e2	1.16	NO	6.551e2	0.16869	0.16869	0.110
10	2,3,4,6,7,8-HxCDF	34.27	1.058e5	8.450e4	5.890e3	4.883e3	1.21	NO	1.077e4	2.9115	2.9115	0.117
11	1,2,3,7,8,9-HxCDF	35.28	1.363e5	1.150e5	3.781e3	3.038e3	1.24	NO	6.818e3	1.9775	1.9775	0.136
12	Total Hexa-Furans	35.29	1.572e5	1.158e5	5.539e3	4.326e3	1.28	NO	9.865e3	2.5401	2.5401	0.110

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_11.qld

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Printed: Tuesday, December 22, 2020 8:29:47 AM Pacific Standard Time

Name: 201216R1_11, Date: 16-Dec-2020, Time: 16:03:03, ID: 2002493-09 USMPDI-057SC-A-03-04-201109 14.16, Description: USMPDI-057SC-A-03-04-201109

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	36.83	7.636e5	7.579e5	4.609e4	4.547e4	1.01	NO	9.155e4	31.633	31.633	0.269
2	Total Hepta-Furans	37.23	1.070e4	1.143e4	1.065e3	1.014e3	1.05	NO	2.079e3	0.78120	0.78120	0.258
3	Total Hepta-Furans	37.55	1.741e6	1.675e6	1.012e5	9.969e4	1.02	NO	2.009e5	75.483	75.483	0.258
4	1,2,3,4,7,8,9-HpCDF	38.84	1.914e5	2.052e5	9.233e3	9.354e3	0.99	NO	1.859e4	6.8294	6.8294	0.218

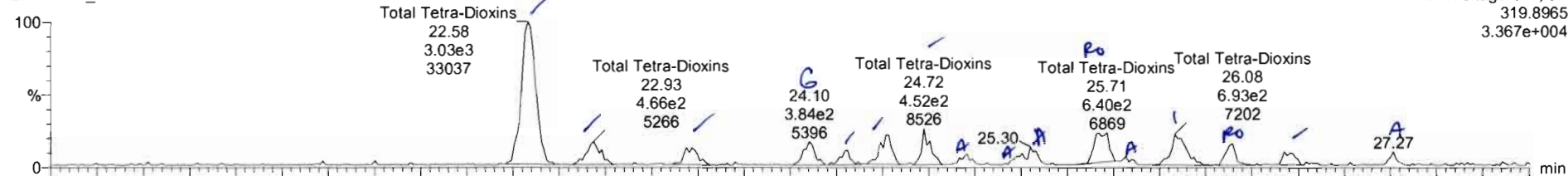
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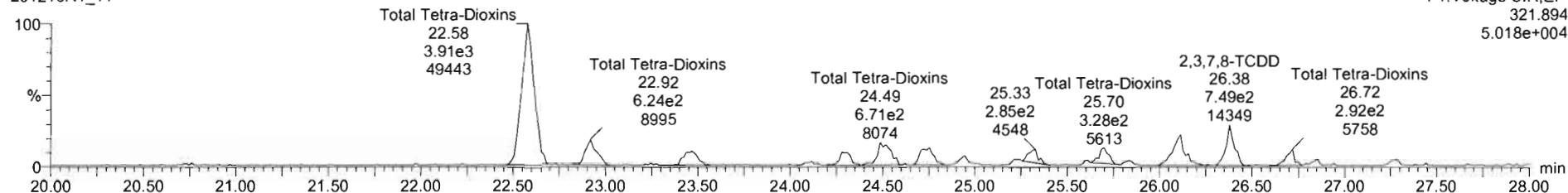
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2,3,7,8-TCDD

201216R1_11



201216R1_11

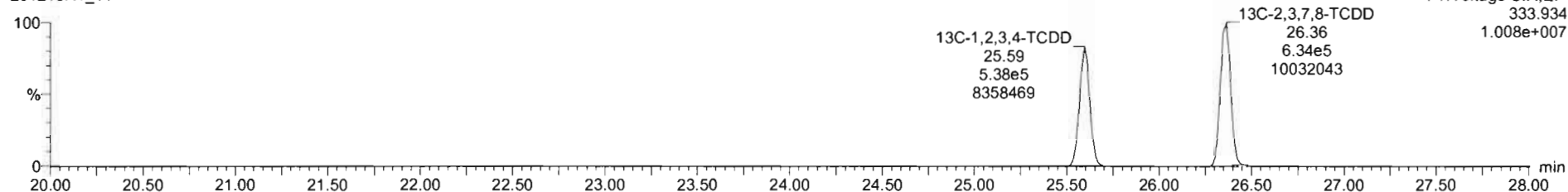


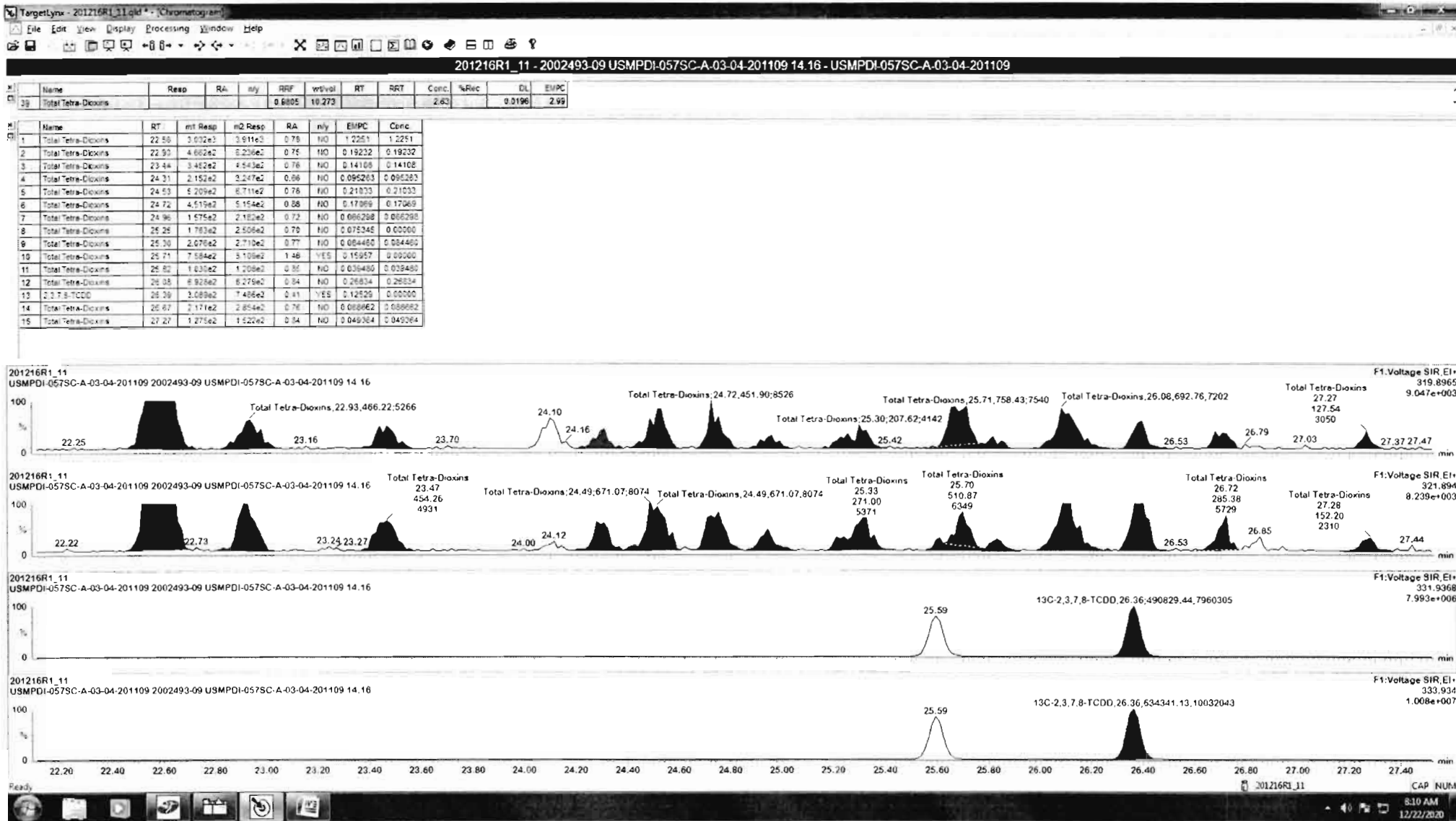
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201216R1_11



201216R1_11





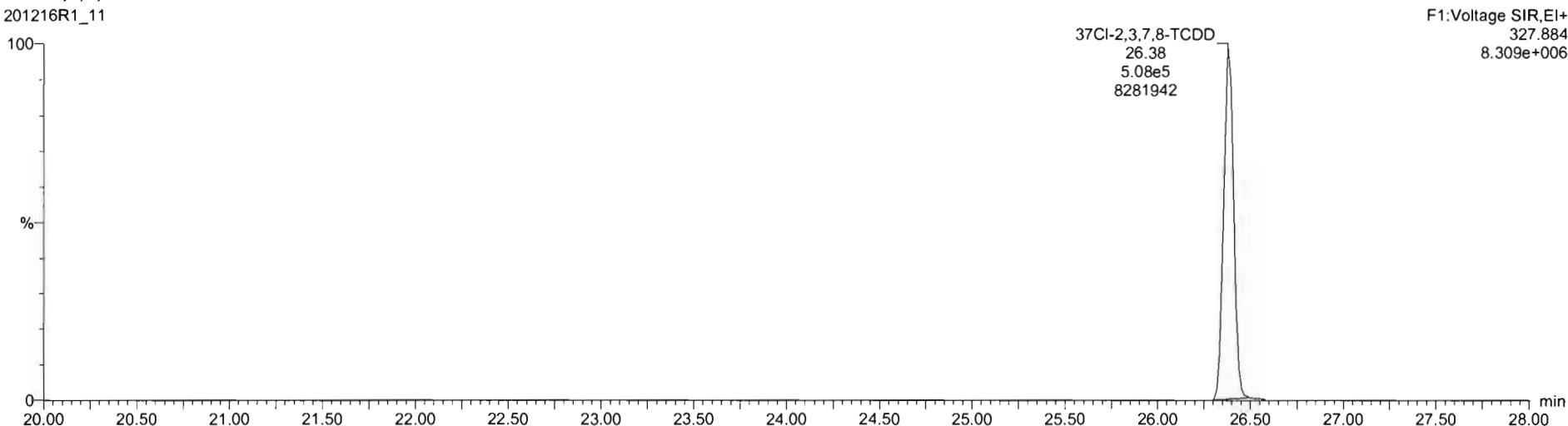
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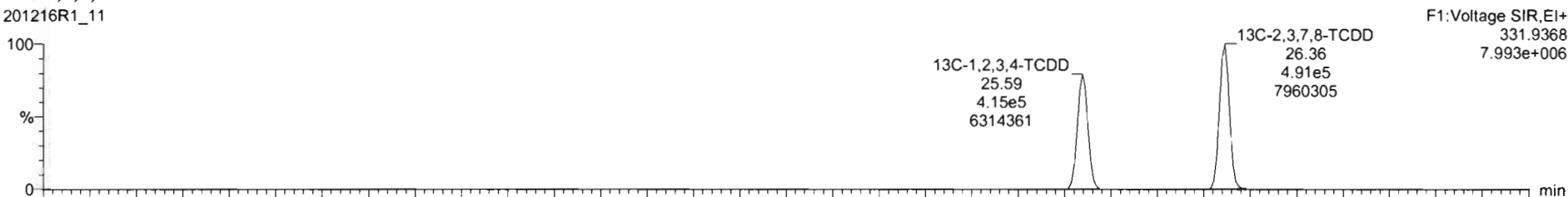
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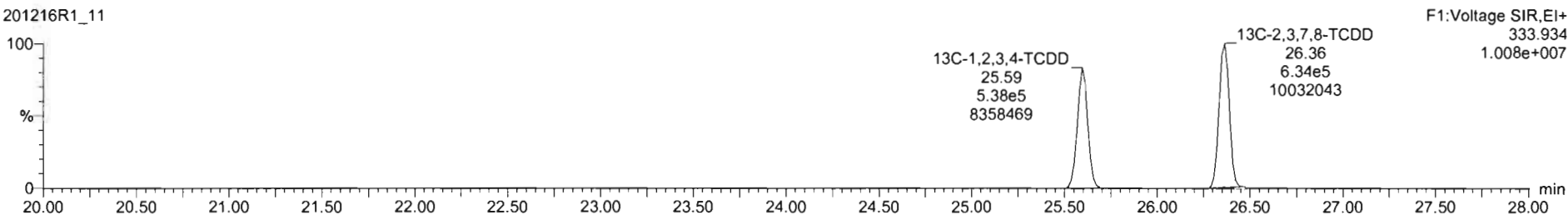


13C-1,2,3,4-TCDD

201216R1_11



201216R1_11



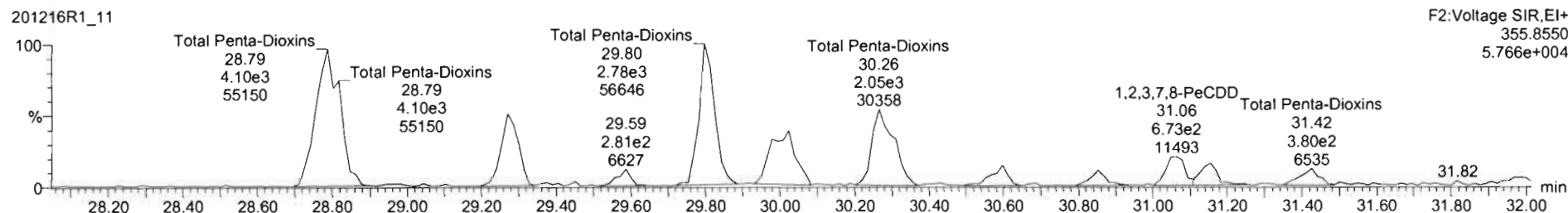
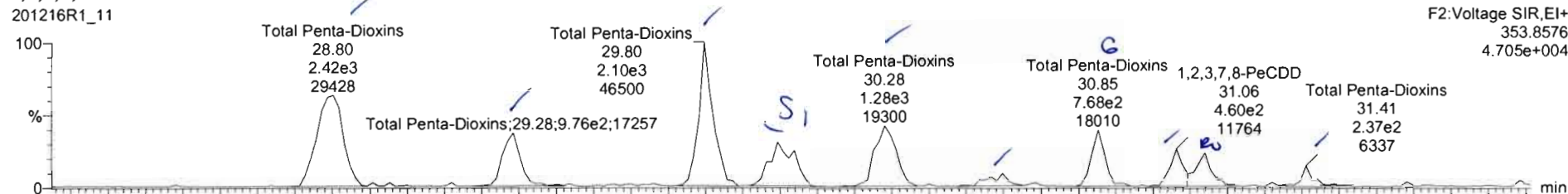
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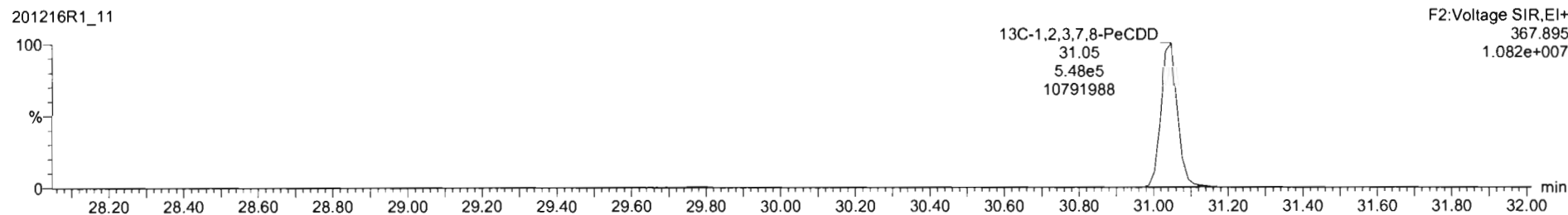
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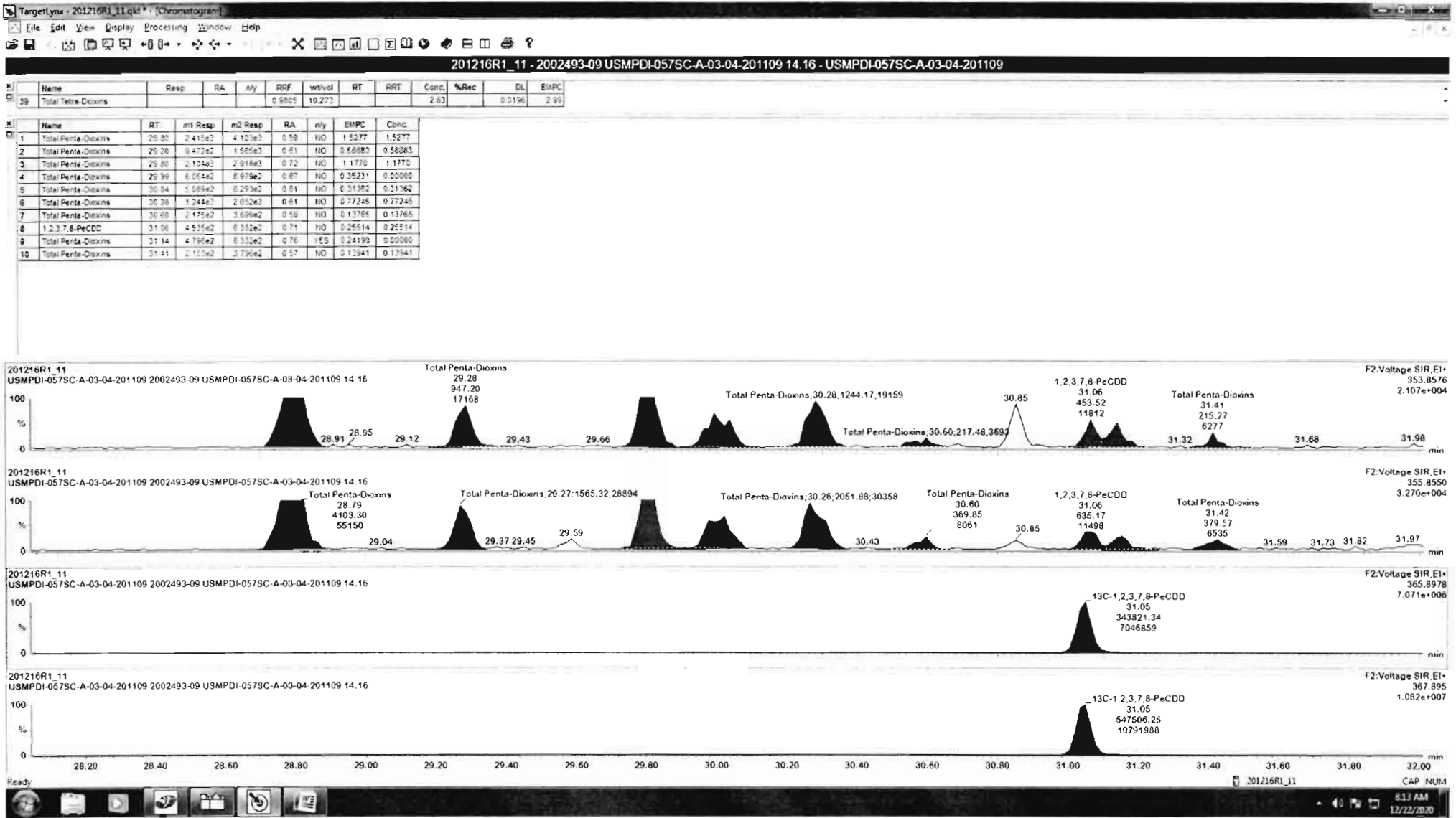
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1,2,3,7,8-PeCDD



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





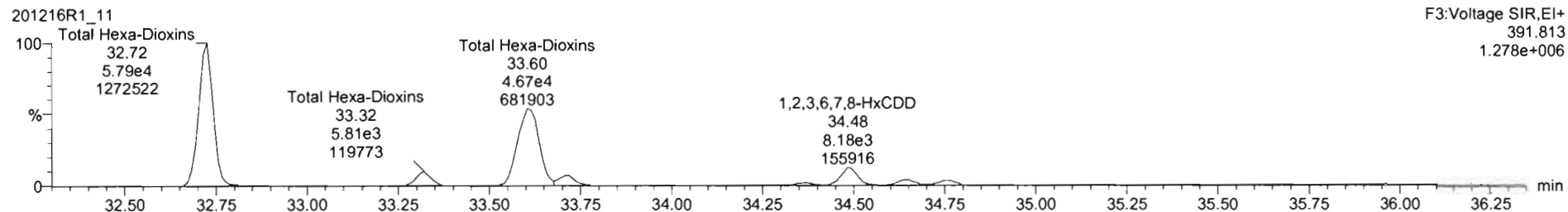
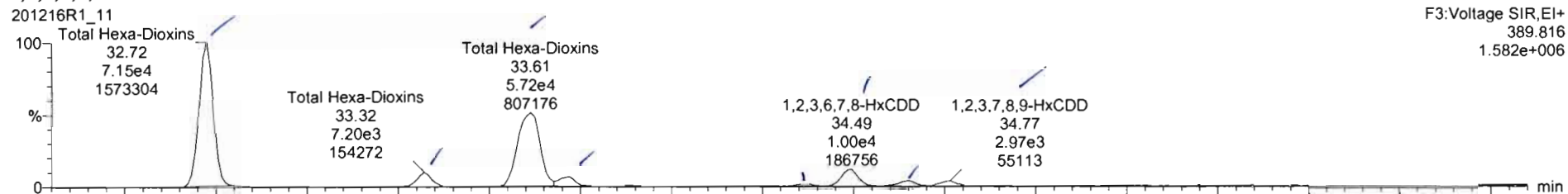
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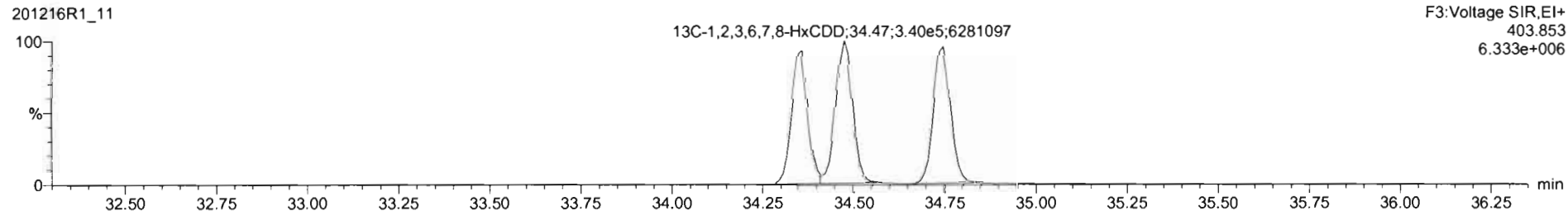
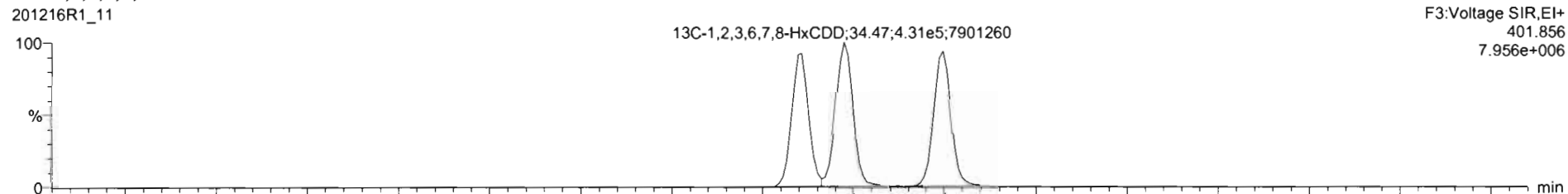
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1,2,3,4,7,8-HxCDD



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



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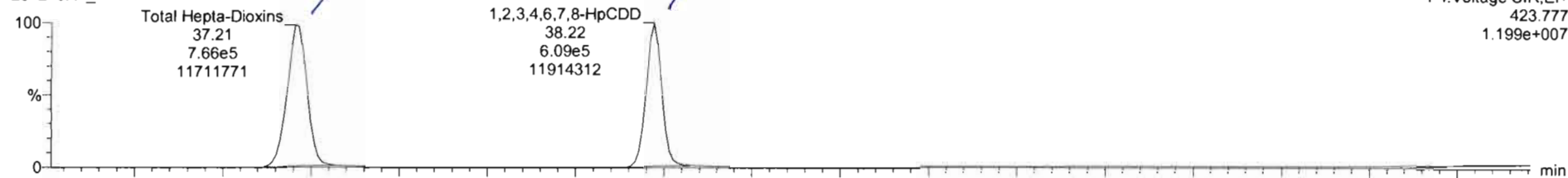
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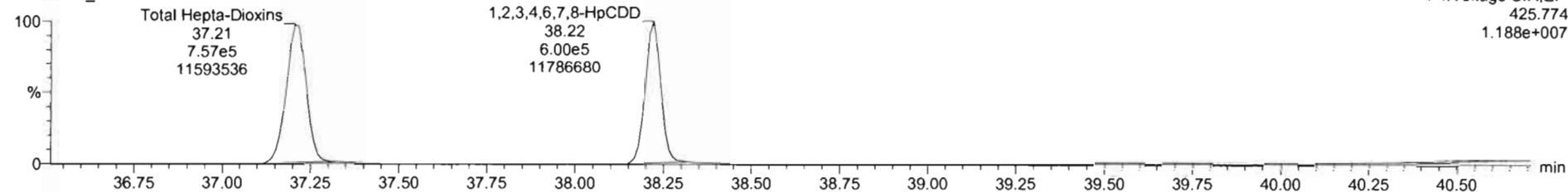
1,2,3,4,6,7,8-HpCDD

201216R1_11



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1.199e+007

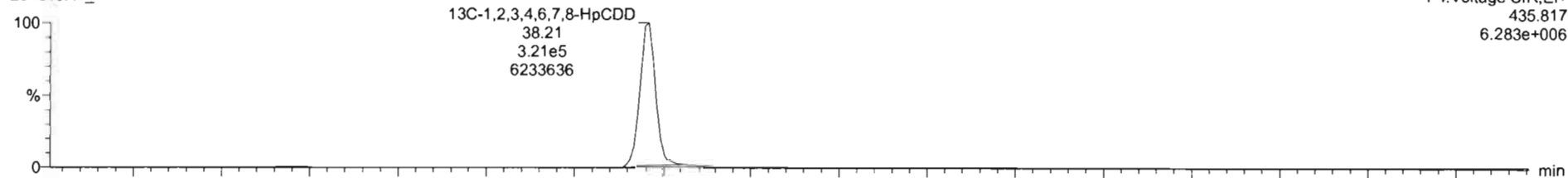
201216R1_11



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1.188e+007

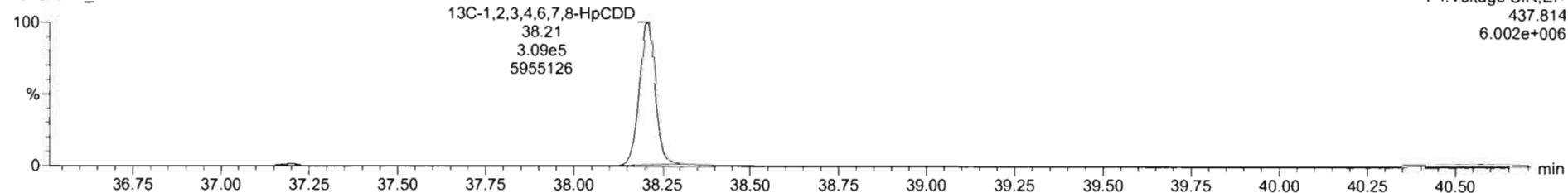
13C-1,2,3,4,6,7,8-HpCDD

201216R1_11



F4: Voltage SIR, EI+
435.817
6.283e+006

201216R1_11



F4: Voltage SIR, EI+
437.814
6.002e+006

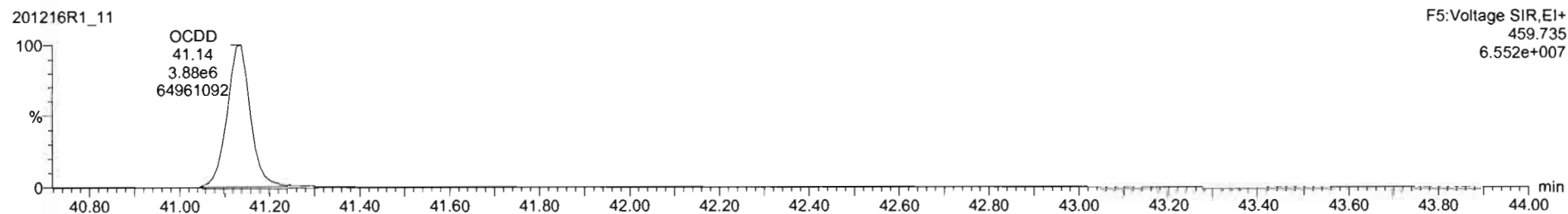
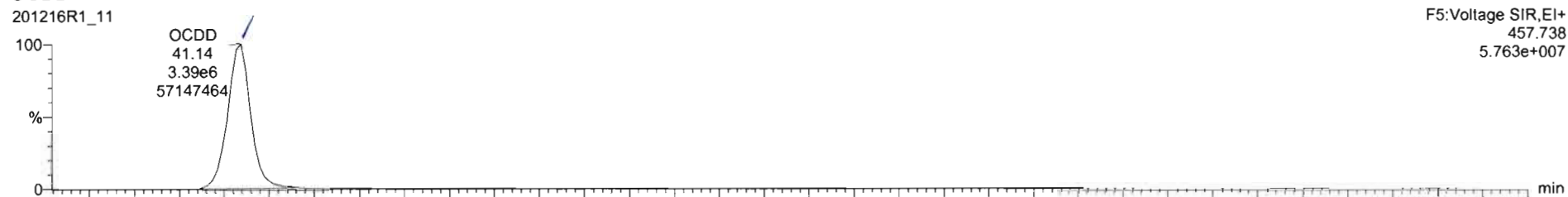
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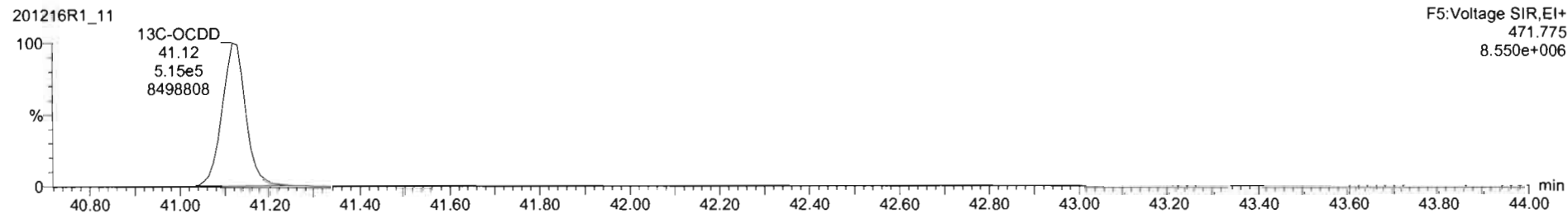
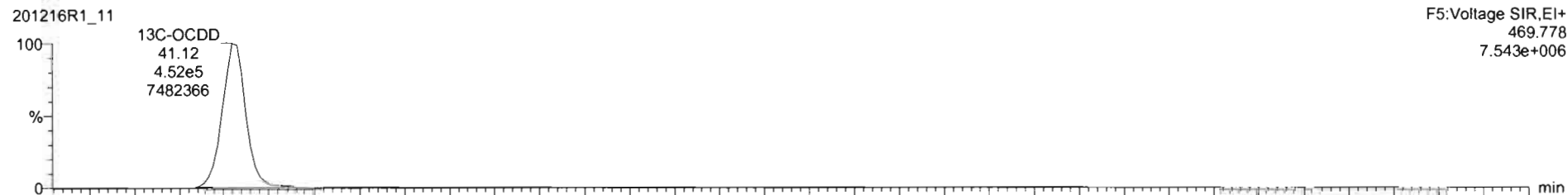
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OCDD



13C-OCDD



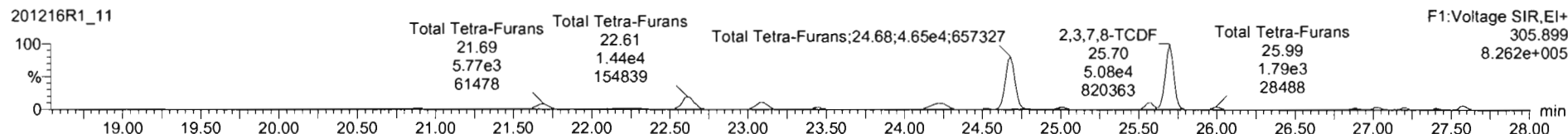
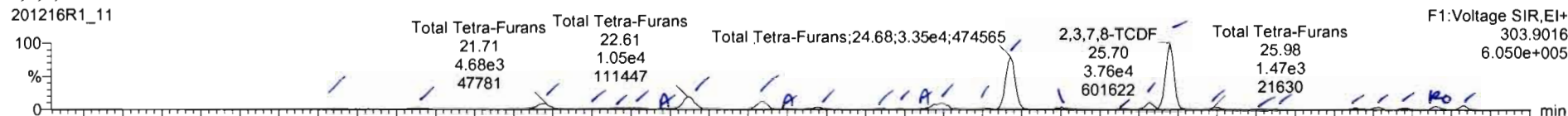
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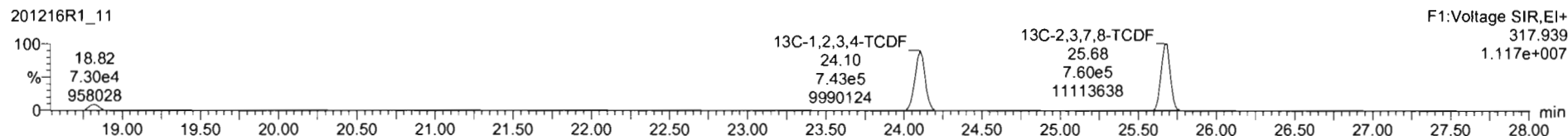
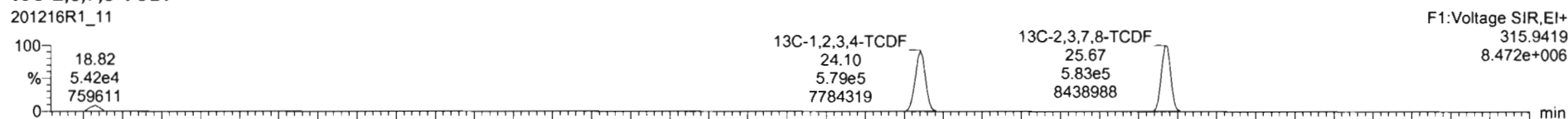
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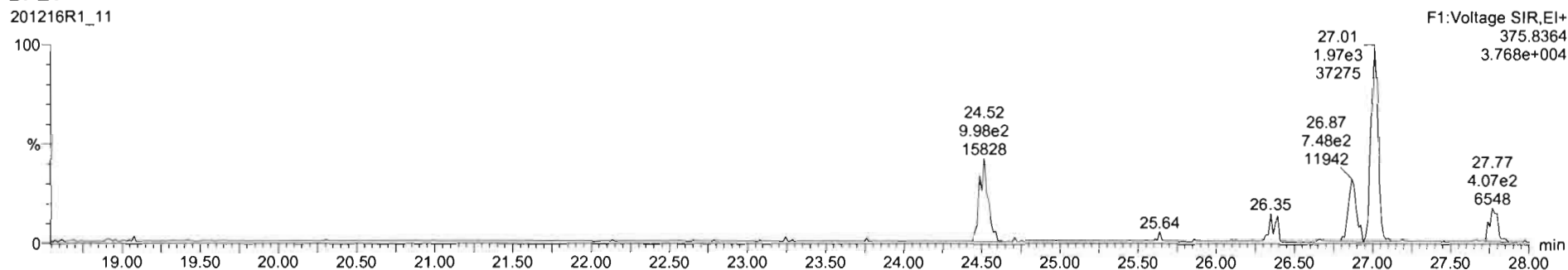
2,3,7,8-TCDF

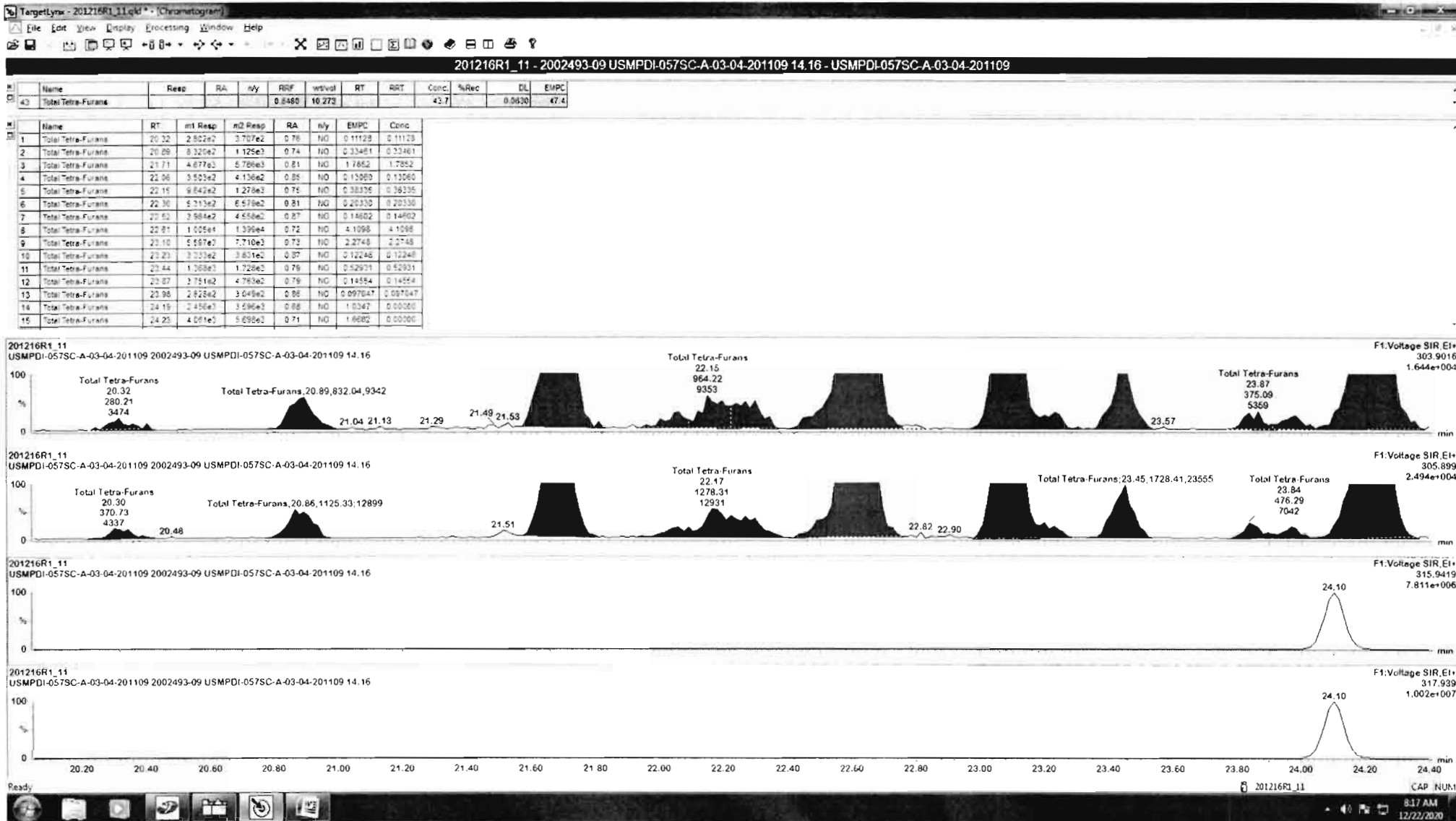


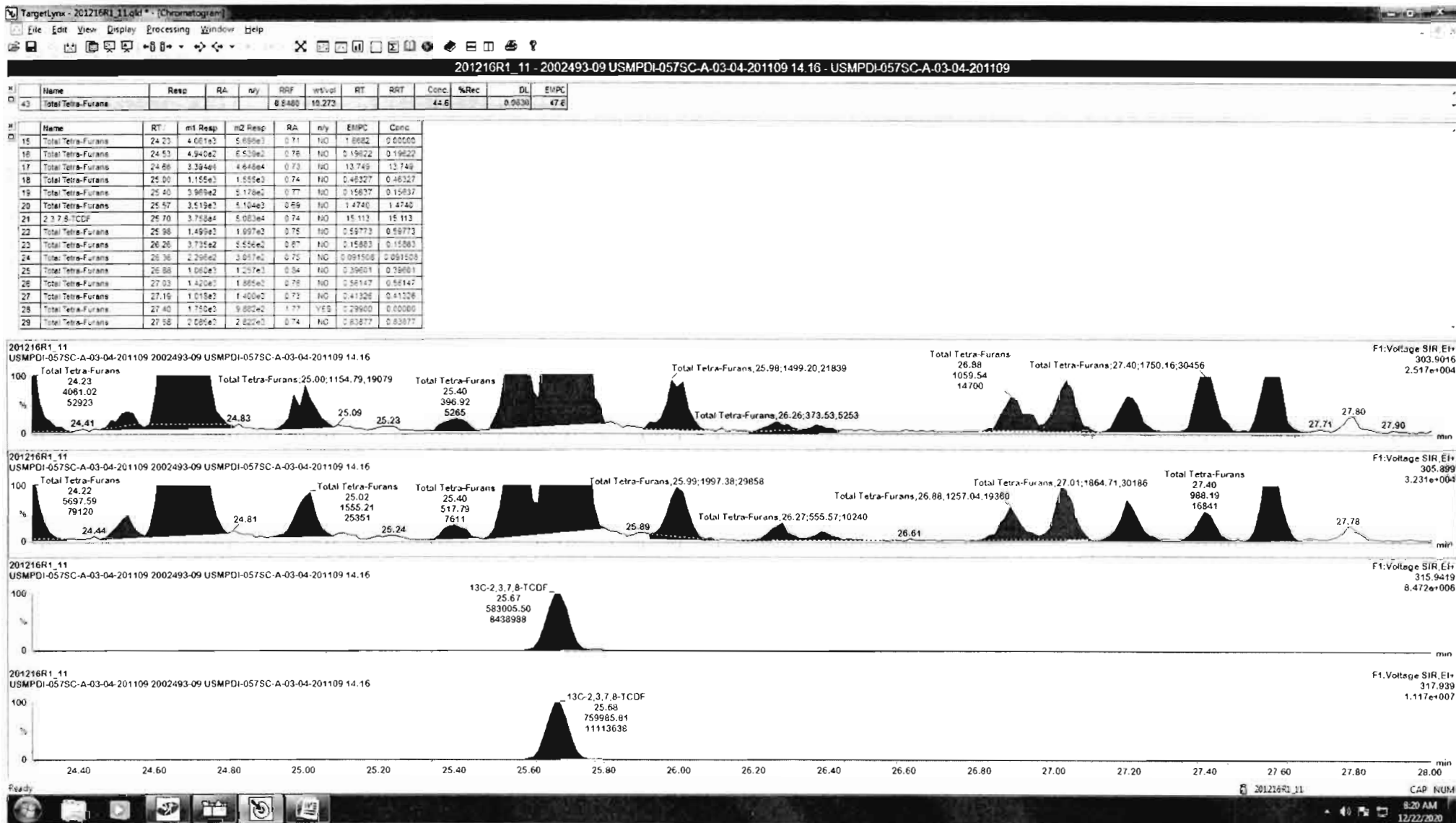
13C-2,3,7,8-TCDF



DPE1







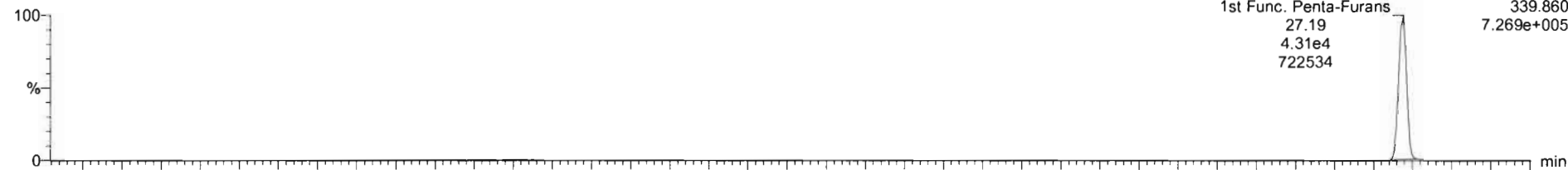
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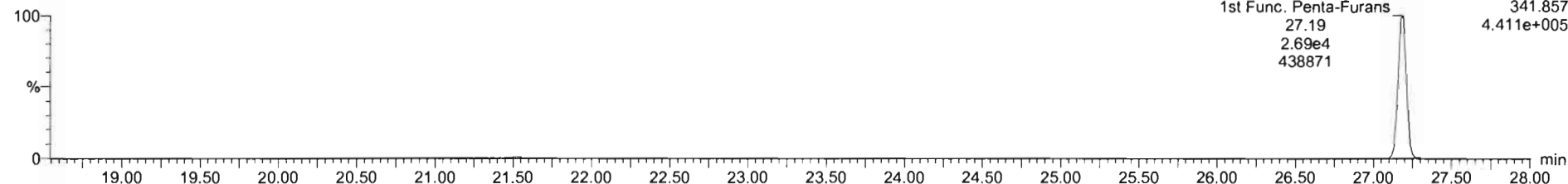
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1st Func. Penta-Furans

201216R1_11

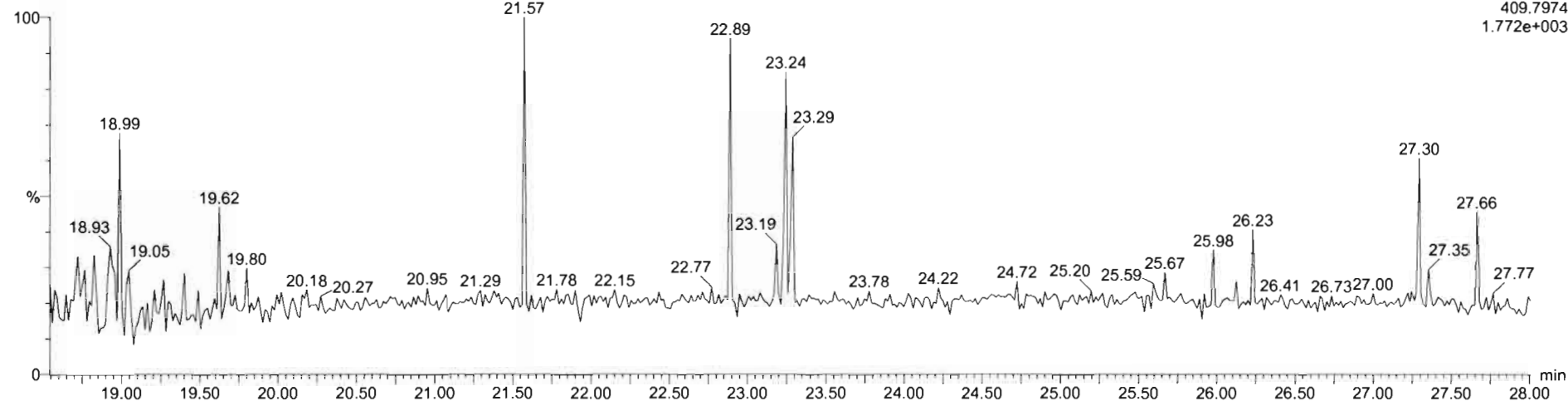


201216R1_11



DPE6

201216R1_11

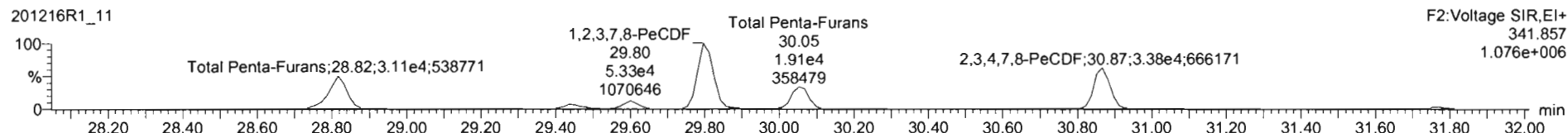
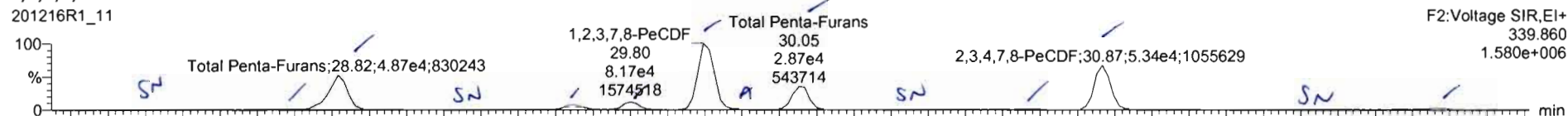


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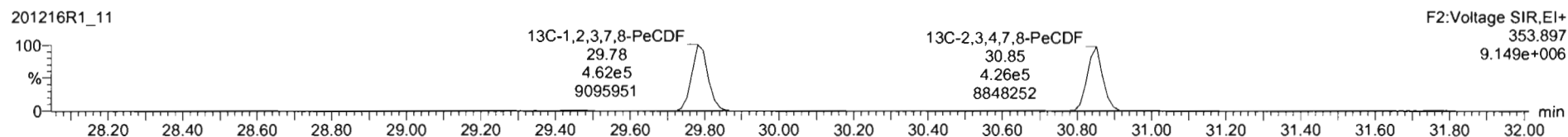
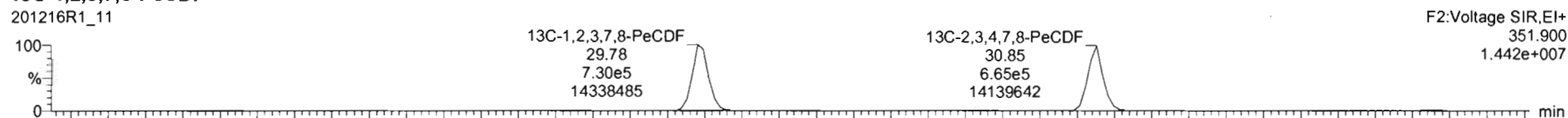
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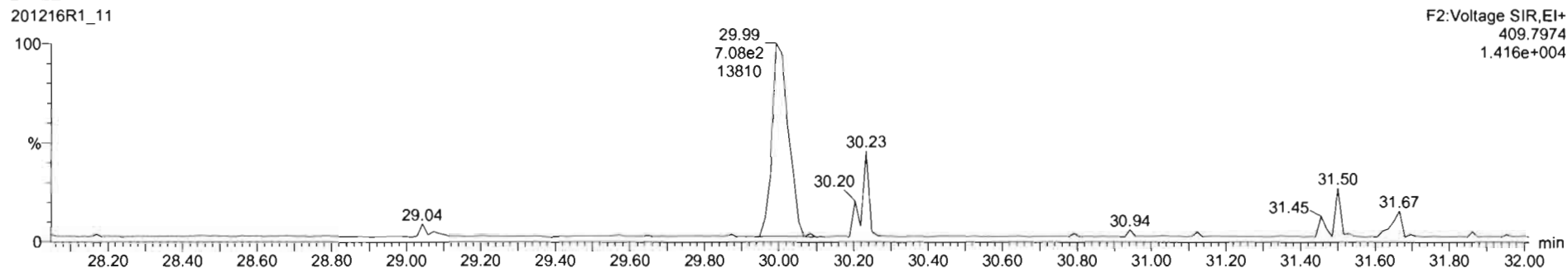
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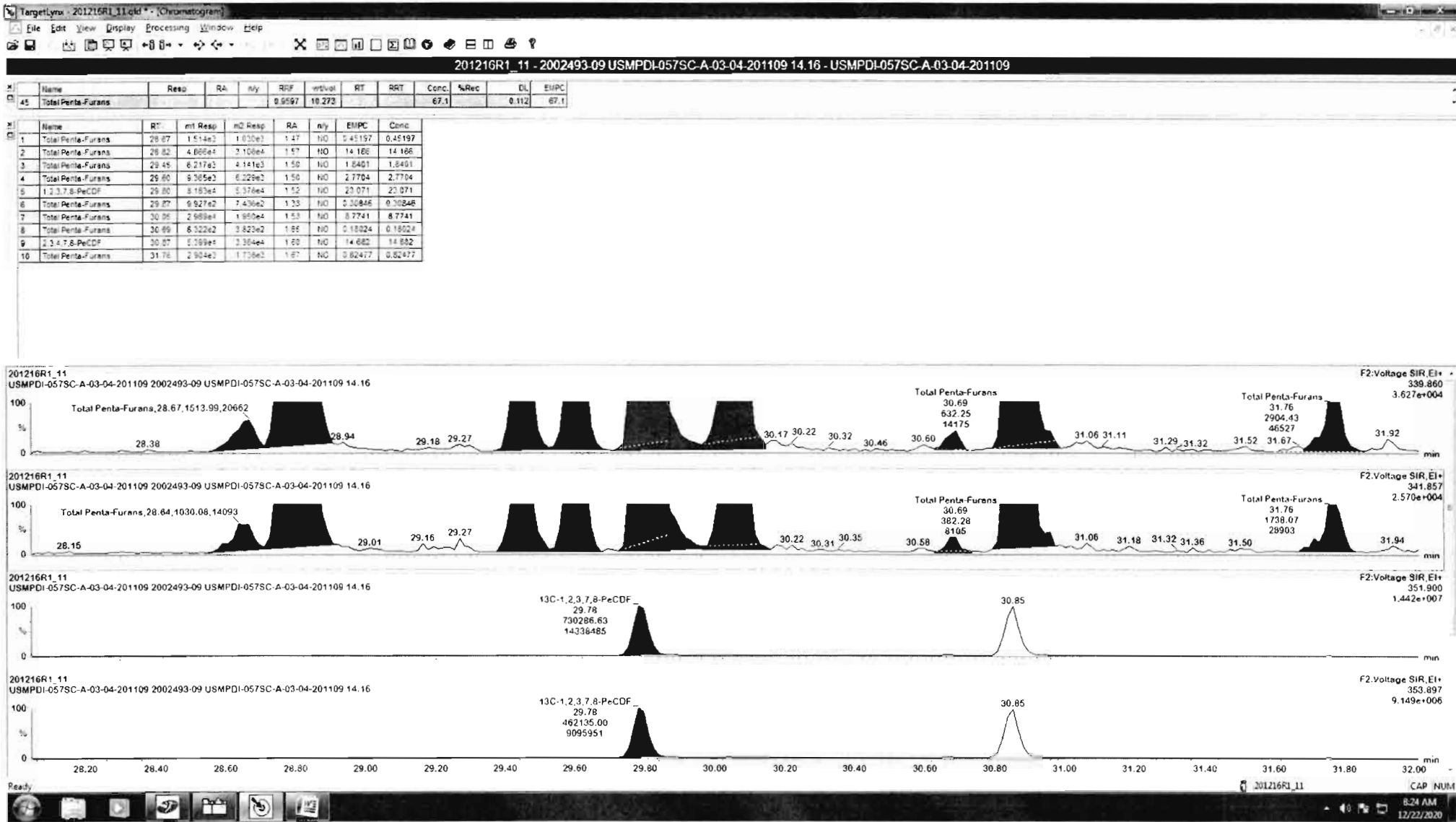


13C-1,2,3,7,8-PeCDF



DPE2



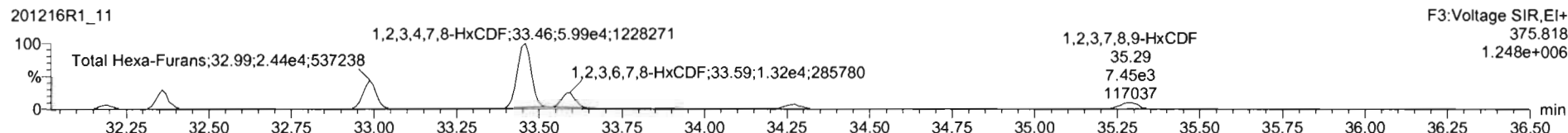
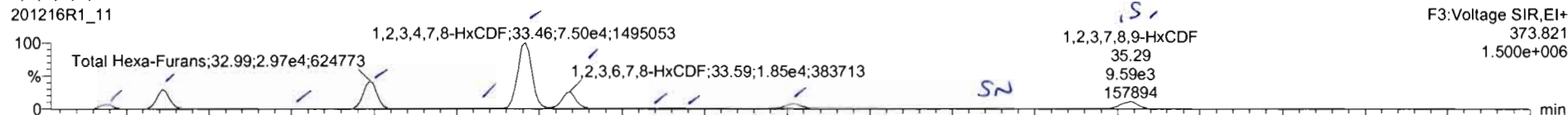


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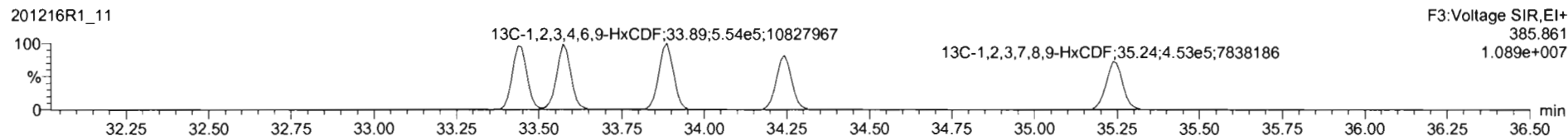
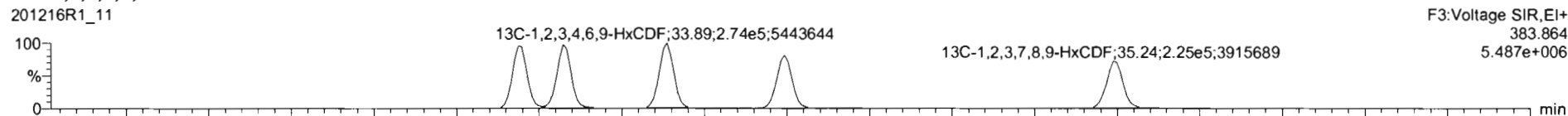
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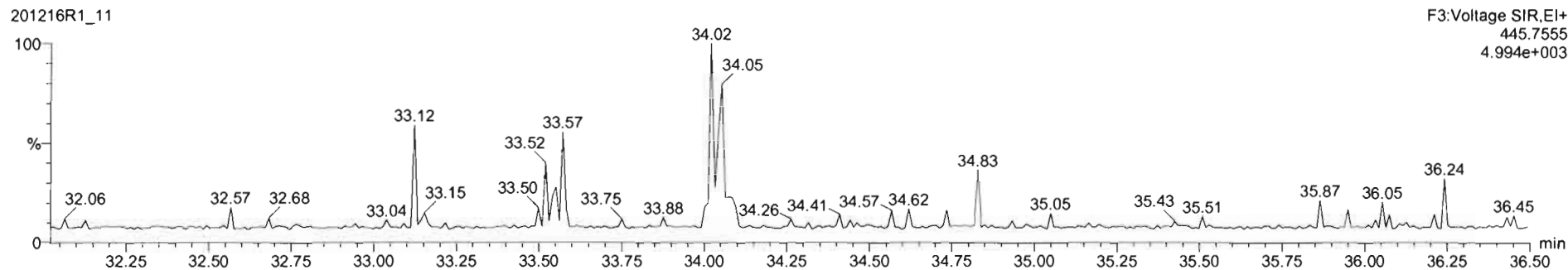
1,2,3,4,7,8-HxCDF

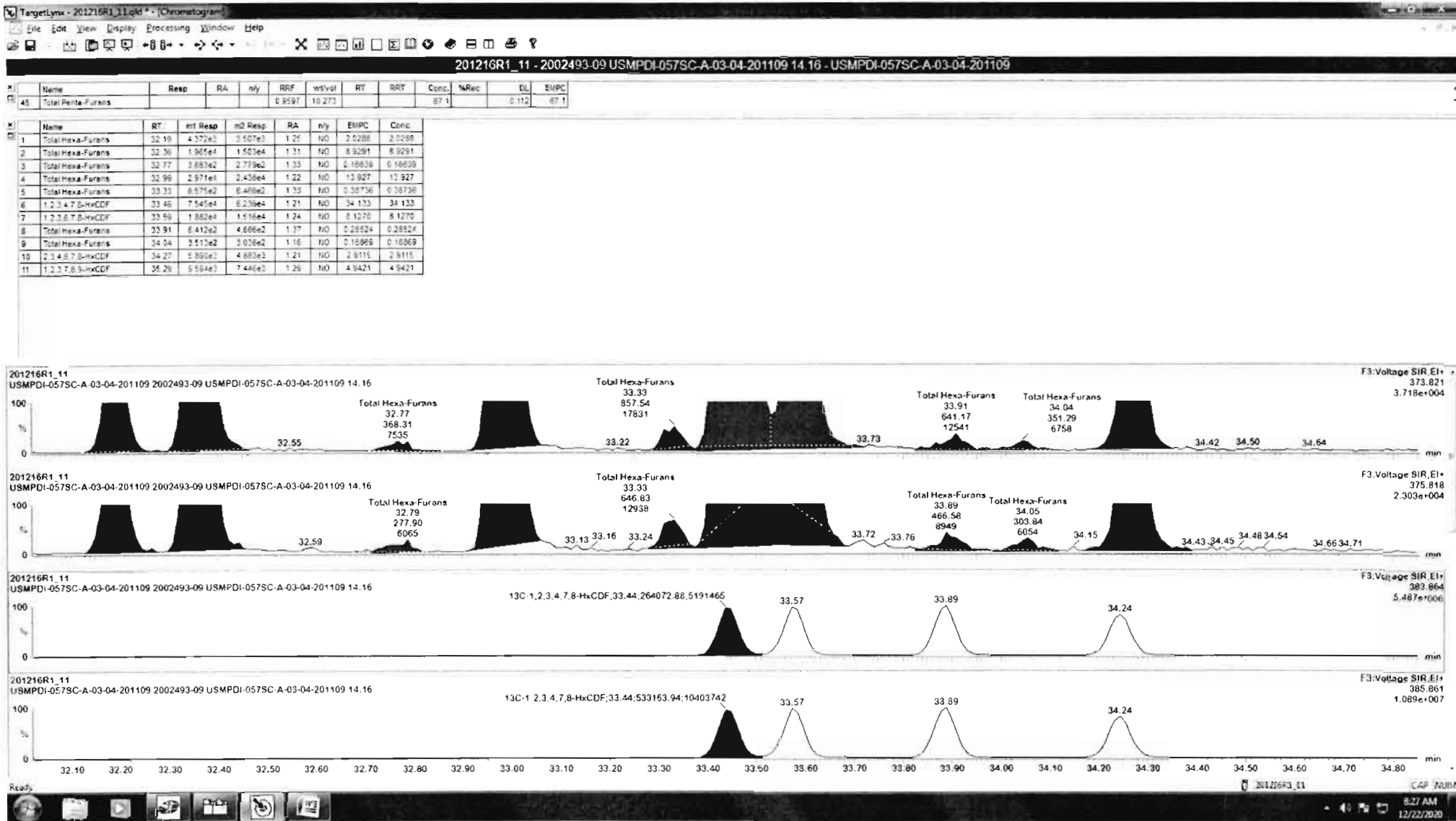


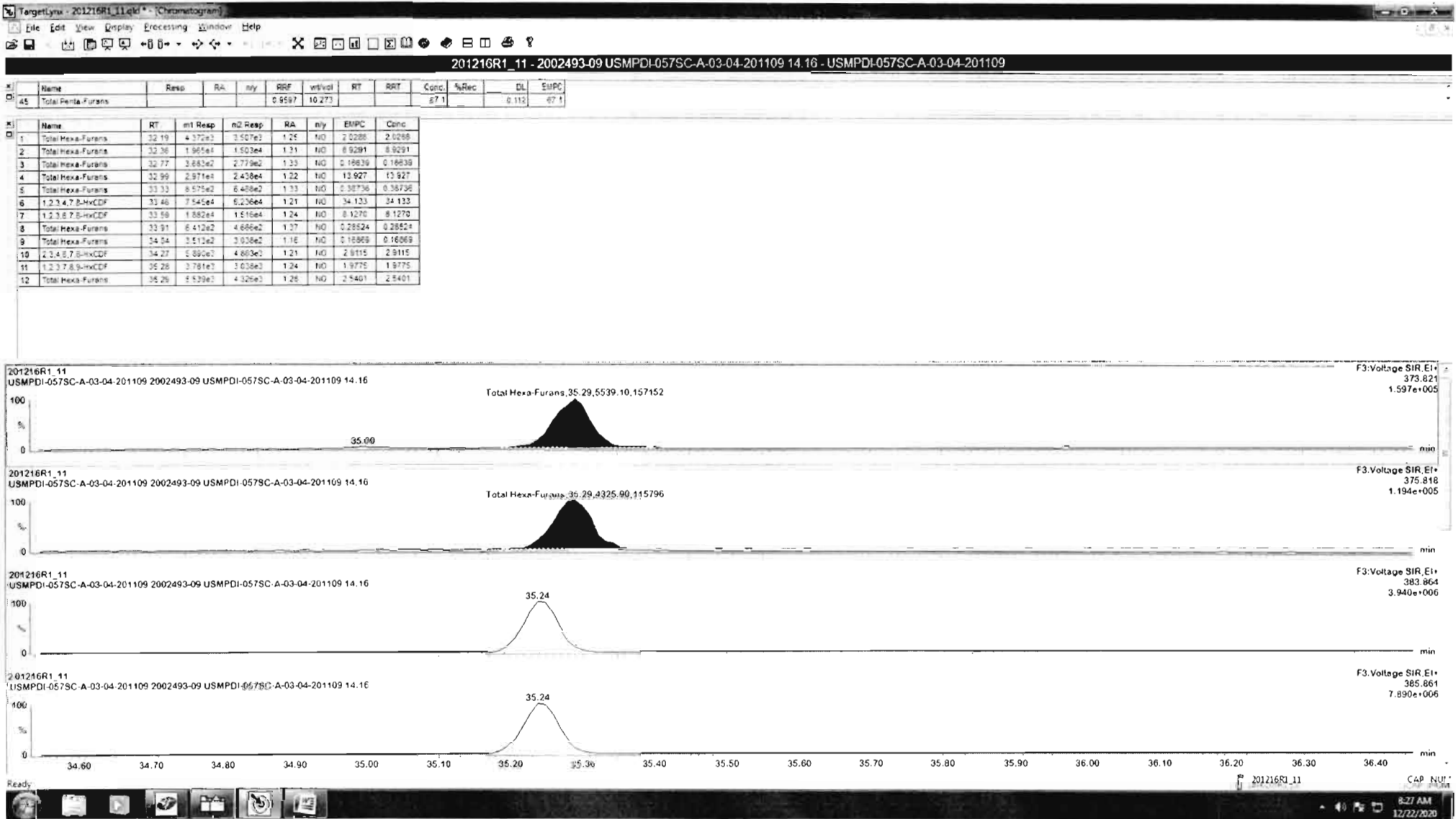
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DPE3





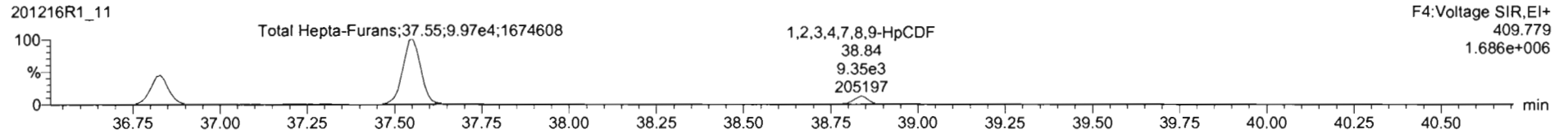
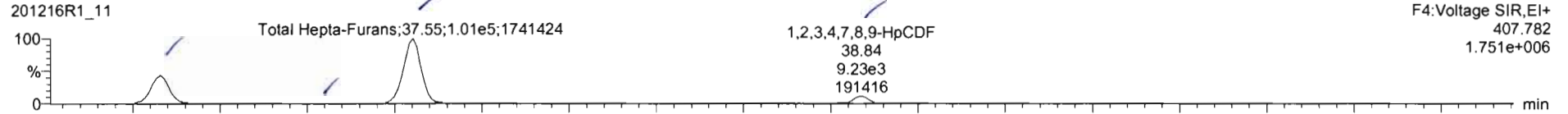


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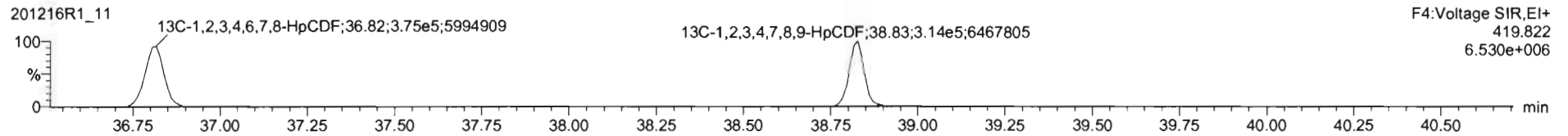
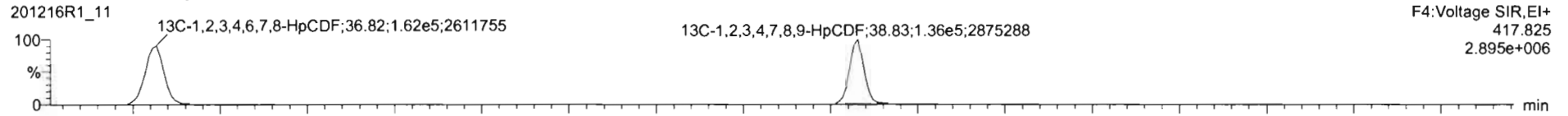
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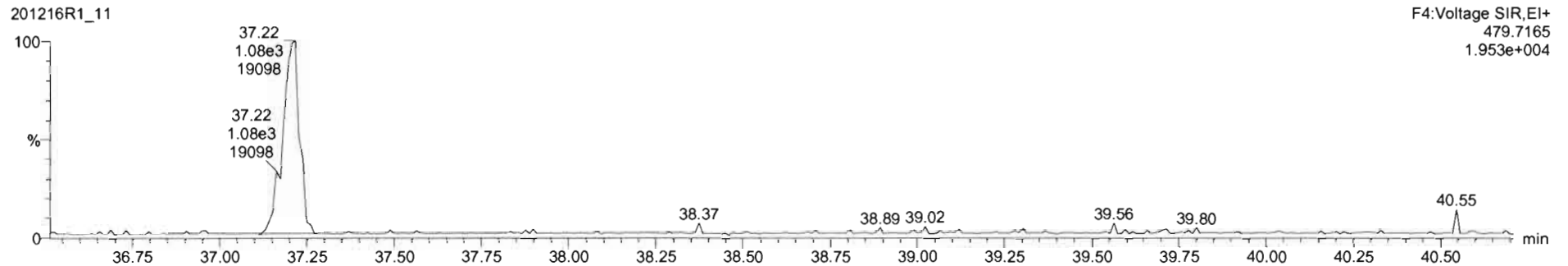
1,2,3,4,6,7,8-HpCDF



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

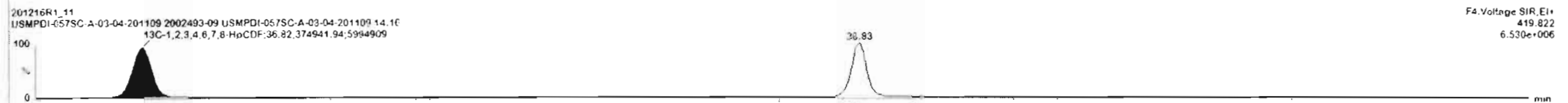


DPE4



Name	Resp	RA	nly	RRF	wtval	RT	SRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				1.0492	10.273			115		0.258	115

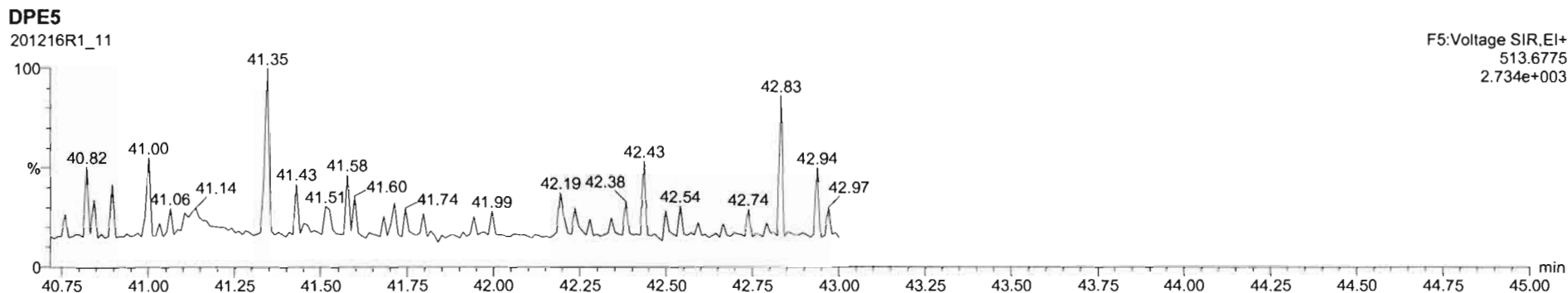
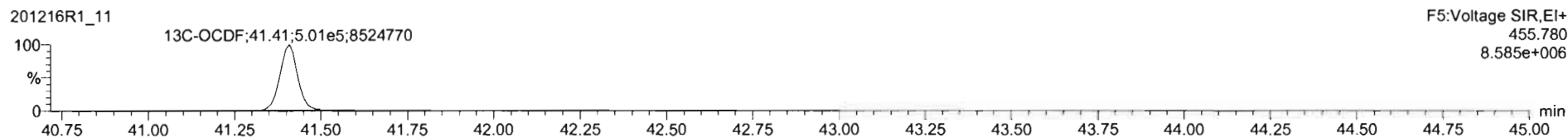
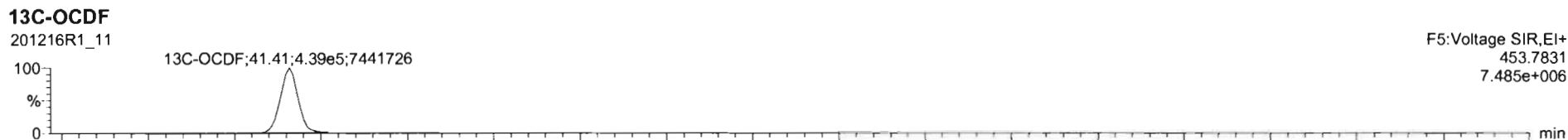
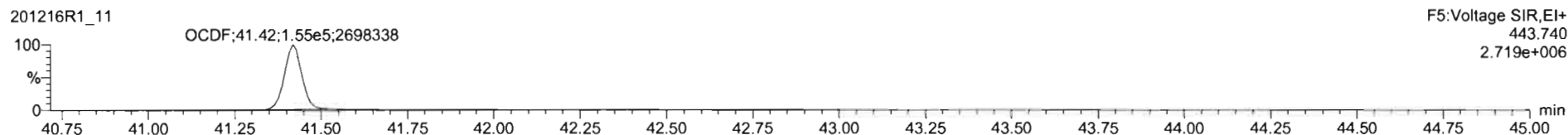
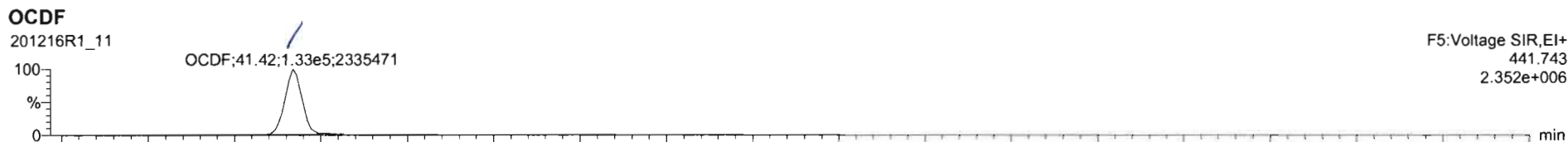
Name	RT	mt Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	38.83	4.605e4	4.547e4	1.01	NO	31.603	21.530
2 Total Hepta-Furans	37.23	1.065e3	1.014e2	1.05	NO	0.78120	0.78120
3 Total Hepta-Furans	37.55	1.012e5	9.909e4	1.02	NO	75.483	75.483
4 1,2,3,4,7,8,9-HpCDF	38.84	9.233e3	9.354e2	0.99	NO	0.8294	8.8294



Dataset: Untitled

Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_11, Date: 16-Dec-2020, Time: 16:03:03, ID: 2002493-09 USMPDI-057SC-A-03-04-201109 14.16, Description: USMPDI-057SC-A-03-04-201109

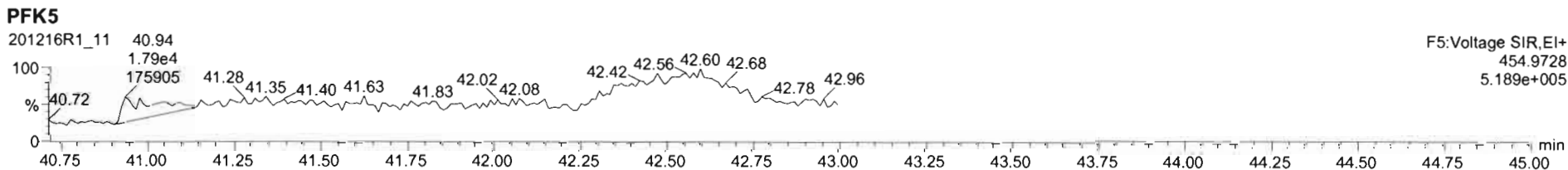
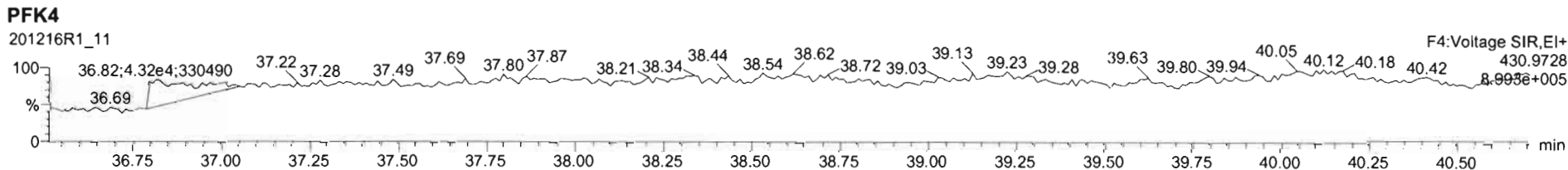
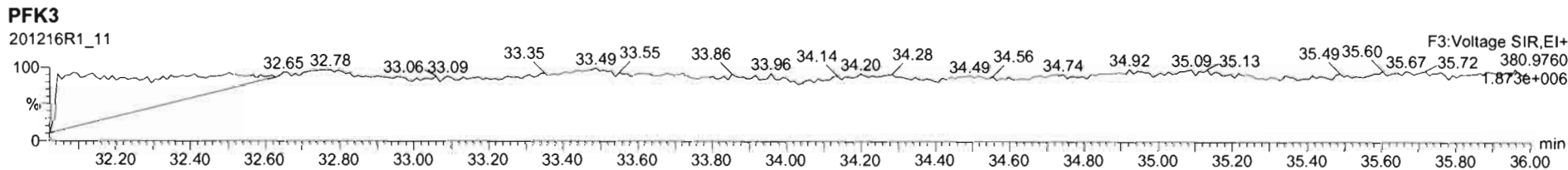
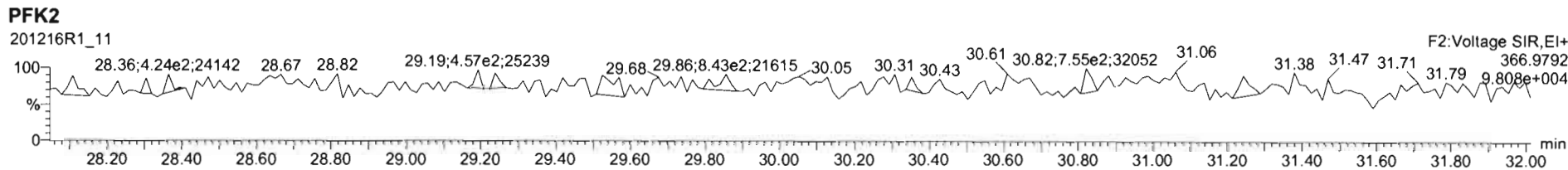
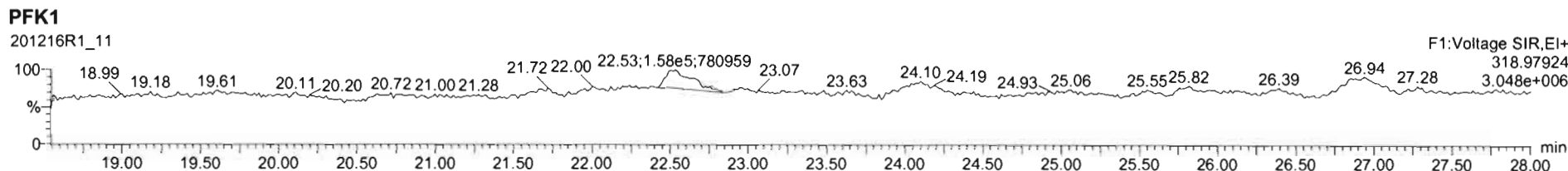


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Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time

Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_11, Date: 16-Dec-2020, Time: 16:03:03, ID: 2002493-09 USMPDI-057SC-A-03-04-201109 14.16, Description: USMPDI-057SC-A-03-04-201109



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_12.qld

Last Altered: Tuesday, December 22, 2020 9:05:03 AM Pacific Standard Time
Printed: Tuesday, December 22, 2020 9:09:33 AM Pacific Standard Time

GRB 12/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

MW 12/22/20

Name: 201216R1_12, Date: 16-Dec-2020, Time: 16:47:18, ID: 2002493-10 USMPDI-057SC-A-04-05-201109 13.57, Description: USMPDI-057SC-A-04-05-201109

#	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	0.980	10.184	26.381		1.001				0.0355	
2	2 1,2,3,7,8-PeCDD	4.80e2	0.64	NO	0.932	10.184	31.079	31.05	1.001	1.000	0.10535		0.0541	0.105
3	3 1,2,3,4,7,8-HxCDD	4.94e2	1.37	NO	1.02	10.184	34.378	34.37	1.001	1.000	0.13246		0.101	0.132
4	4 1,2,3,6,7,8-HxCDD	3.31e3	1.24	NO	0.902	10.184	34.494	34.49	1.001	1.001	0.89762		0.100	0.898
5	5 1,2,3,7,8,9-HxCDD	1.31e3	1.27	NO	0.954	10.184	34.755	34.76	1.000	1.000	0.34424		0.101	0.344
6	6 1,2,3,4,6,7,8-HpCDD	1.49e5	1.02	NO	0.918	10.184	38.222	38.22	1.000	1.000	48.163		0.384	48.2
7	7 OCDD	8.78e5	0.87	NO	0.866	10.184	41.134	41.14	1.000	1.000	424.21		0.424	424
8	8 2,3,7,8-TCDF	6.05e3	0.73	NO	0.848	10.184	25.672	25.70	1.000	1.001	0.99498		0.0642	0.995
9	9 1,2,3,7,8-PeCDF	5.60e3	1.44	NO	0.960	10.184	29.784	29.81	1.000	1.001	0.95291		0.0637	0.953
10	10 2,3,4,7,8-PeCDF	5.92e3	1.27	YES	1.07	10.184	30.874	30.87	1.001	1.000	0.99246		0.0528	0.913
11	11 1,2,3,4,7,8-HxCDF	5.43e3	1.17	NO	0.986	10.184	33.457	33.46	1.000	1.000	1.3350		0.0508	1.34
12	12 1,2,3,6,7,8-HxCDF	1.98e3	1.18	NO	1.04	10.184	33.592	33.59	1.001	1.001	0.46404		0.0488	0.464
13	13 2,3,4,6,7,8-HxCDF	1.24e3	1.32	NO	1.02	10.184	34.263	34.27	1.001	1.001	0.30386		0.0527	0.304
14	14 1,2,3,7,8,9-HxCDF	2.39e2	1.08	NO	0.991	10.184	35.258	35.26	1.000	1.000	0.066371		0.0672	0.0664
15	15 1,2,3,4,6,7,8-HpCDF	1.58e4	1.02	NO	1.05	10.184	36.835	36.83	1.000	1.000	5.3658		0.0947	5.37
16	16 1,2,3,4,7,8,9-HpCDF	1.06e3	1.14	NO	1.18	10.184	38.839	38.85	1.000	1.001	0.38661		0.0794	0.387
17	17 OCDF	2.25e4	0.84	NO	0.896	10.184	41.416	41.42	1.000	1.000	10.520		0.0794	10.5
18	18 13C-2,3,7,8-TCDD	1.17e6	0.77	NO	1.06	10.184	26.368	26.35	1.030	1.029	226.05	115	0.0995	
19	19 13C-1,2,3,7,8-PeCDD	9.60e5	0.63	NO	0.785	10.184	31.211	31.05	1.219	1.213	250.06	127	0.178	
20	20 13C-1,2,3,4,7,8-HxCDD	7.18e5	1.27	NO	0.621	10.184	34.347	34.36	1.014	1.014	274.35	140	0.363	
21	21 13C-1,2,3,6,7,8-HxCDD	8.03e5	1.27	NO	0.734	10.184	34.469	34.47	1.017	1.017	259.70	132	0.307	
22	22 13C-1,2,3,7,8,9-HxCDD	7.83e5	1.25	NO	0.723	10.184	34.753	34.74	1.026	1.025	256.97	131	0.311	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.63e5	1.05	NO	0.568	10.184	38.254	38.21	1.129	1.128	277.08	141	0.846	
24	24 13C-OCDD	9.39e5	0.93	NO	0.496	10.184	41.192	41.13	1.216	1.214	449.20	114	0.454	
25	25 13C-2,3,7,8-TCDF	1.41e6	0.76	NO	0.919	10.184	25.667	25.67	1.003	1.003	230.95	118	0.142	
26	26 13C-1,2,3,7,8-PeCDF	1.20e6	1.55	NO	0.715	10.184	29.921	29.78	1.169	1.164	253.52	129	0.361	
27	27 13C-2,3,4,7,8-PeCDF	1.10e6	1.57	NO	0.689	10.184	31.008	30.85	1.212	1.205	240.64	123	0.375	
28	28 13C-1,2,3,4,7,8-HxCDF	8.11e5	0.49	NO	0.873	10.184	33.452	33.45	0.987	0.987	220.18	112	0.398	
29	29 13C-1,2,3,6,7,8-HxCDF	8.05e5	0.50	NO	0.933	10.184	33.581	33.57	0.991	0.991	204.63	104	0.373	
30	30 13C-2,3,4,6,7,8-HxCDF	7.85e5	0.50	NO	0.843	10.184	34.249	34.24	1.011	1.011	221.07	113	0.413	
31	31 13C-1,2,3,7,8,9-HxCDF	7.12e5	0.50	NO	0.780	10.184	35.248	35.25	1.040	1.040	216.71	110	0.446	

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_12.qld

Last Altered: Tuesday, December 22, 2020 9:05:03 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 9:09:33 AM Pacific Standard Time

Name: 201216R1_12, Date: 16-Dec-2020, Time: 16:47:18, ID: 2002493-10 USMPDI-057SC-A-04-05-201109 13.57, Description: USMPDI-057SC-A-04-05-201109

	# 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	5.50e5	0.42	NO	0.726	10.184	36.824	36.82	1.087	1.086	179.66	91.5	0.479	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.60e5	0.43	NO	0.491	10.184	38.833	38.83	1.146	1.146	222.06	113	0.708	
34	34 13C-OCDF	9.38e5	0.90	NO	0.565	10.184	41.409	41.41	1.222	1.222	393.78	100	0.431	
35	35 37Cl-2,3,7,8-TCDD	5.28e5			1.22	10.184	26.363	26.38	1.030	1.031	88.592	113	0.0380	
36	36 13C-1,2,3,4-TCDD	9.61e5	0.77	NO	1.00	10.184	25.640	25.59	1.000	1.000	196.40	100	0.105	
37	37 13C-1,2,3,4-TCDF	1.30e6	0.77	NO	1.00	10.184	24.130	24.09	1.000	1.000	196.40	100	0.130	
38	38 13C-1,2,3,4,6,9-HxCDF	8.28e5	0.50	NO	1.00	10.184	33.920	33.89	1.000	1.000	196.40	100	0.348	
39	39 Total Tetra-Dioxins				0.980	10.184	24.620		0.000		0.30918		0.0355	0.489
40	40 Total Penta-Dioxins				0.932	10.184	29.960		0.000		0.85883		0.0541	1.41
41	41 Total Hexa-Dioxins				0.902	10.184	33.635		0.000		11.078		0.107	11.1
42	42 Total Hepta-Dioxins				0.918	10.184	37.640		0.000		98.785		0.384	98.8
43	43 Total Tetra-Furans				0.848	10.184	23.610		0.000		5.2730		0.0642	5.35
44	44 1st Func. Penta-Furans				0.960	10.184	26.930		0.000		2.8314		0.0163	2.83
45	45 Total Penta-Furans				0.960	10.184	29.275		0.000		3.4489		0.0613	4.36
46	46 Total Hexa-Furans				1.02	10.184	33.555		0.000		6.7166		0.0539	6.72
47	47 Total Hepta-Furans				1.05	10.184	37.835		0.000		13.868		0.0921	13.9

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_12.qld

Last Altered: Tuesday, December 22, 2020 9:05:03 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 9:09:33 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_12, Date: 16-Dec-2020, Time: 16:47:18, ID: 2002493-10 USMPDI-057SC-A-04-05-201109 13.57, Description: USMPDI-057SC-A-04-05-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.59	7.119e3	7.560e3	6.586e2	5.935e2	1.11	YES	0.000e0	0.00000	0.18019	0.0355
2	Total Tetra-Dioxins	22.92	4.469e3	3.867e3	2.777e2	3.287e2	0.84	NO	6.064e2	0.10401	0.10401	0.0355
3	Total Tetra-Dioxins	23.44	1.775e3	1.571e3	9.701e1	1.193e2	0.81	NO	2.163e2	0.037098	0.037098	0.0355
4	Total Tetra-Dioxins	24.29	4.475e3	5.175e3	2.706e2	3.907e2	0.69	NO	6.612e2	0.11343	0.11343	0.0355
5	Total Tetra-Dioxins	24.75	1.920e3	3.306e3	1.359e2	1.826e2	0.74	NO	3.186e2	0.054647	0.054647	0.0355

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.80	1.056e4	1.068e4	6.452e2	8.918e2	0.72	NO	1.537e3	0.33728	0.33728	0.0541
2	Total Penta-Dioxins	29.28	5.894e3	8.987e3	2.880e2	4.384e2	0.66	NO	7.264e2	0.15940	0.15940	0.0541
3	Total Penta-Dioxins	29.78	2.805e4	1.545e4	1.492e3	1.005e3	1.48	YES	0.000e0	0.00000	0.35938	0.0541
4	Total Penta-Dioxins	29.99	3.611e3	7.326e3	2.272e2	3.522e2	0.65	NO	0.000e0	0.00000	0.12714	0.0541
5	Total Penta-Dioxins	30.04	2.763e3	7.431e3	1.065e2	2.269e2	0.47	YES	0.000e0	0.00000	0.060446	0.0541
6	Total Penta-Dioxins	30.26	5.866e3	1.269e4	3.936e2	5.648e2	0.70	NO	9.584e2	0.21031	0.21031	0.0541
7	1,2,3,7,8-PeCDD	31.05	4.321e3	5.679e3	1.878e2	2.923e2	0.64	NO	4.801e2	0.10535	0.10535	0.0541
8	Total Penta-Dioxins	31.14	2.922e3	2.750e3	8.710e1	1.248e2	0.70	NO	2.119e2	0.046497	0.046497	0.0541

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	1.893e5	1.339e5	8.249e3	6.506e3	1.27	NO	1.476e4	4.1815	4.1815	0.107
2	Total Hexa-Dioxins	33.32	2.306e4	1.833e4	1.060e3	8.845e2	1.20	NO	1.945e3	0.55109	0.55109	0.107
3	Total Hexa-Dioxins	33.61	1.310e5	1.039e5	9.044e3	6.996e3	1.29	NO	1.604e4	4.5457	4.5457	0.107
4	Total Hexa-Dioxins	33.71	7.495e3	7.024e3	3.414e2	2.882e2	1.18	NO	6.296e2	0.17844	0.17844	0.107
5	1,2,3,4,7,8-HxCDD	34.37	7.355e3	5.265e3	2.853e2	2.085e2	1.37	NO	4.938e2	0.13246	0.13246	0.101
6	1,2,3,6,7,8-HxCDD	34.49	3.610e4	2.962e4	1.836e3	1.478e3	1.24	NO	3.314e3	0.89762	0.89762	0.100
7	Total Hexa-Dioxins	34.64	8.458e3	7.792e3	4.904e2	3.792e2	1.29	NO	8.696e2	0.24644	0.24644	0.107
8	1,2,3,7,8,9-HxCDD	34.76	1.543e4	1.054e4	7.322e2	5.769e2	1.27	NO	1.309e3	0.34424	0.34424	0.101

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_12.qld

Last Altered: Tuesday, December 22, 2020 9:05:03 AM Pacific Standard Time

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Name: 201216R1_12, Date: 16-Dec-2020, Time: 16:47:18, ID: 2002493-10 USMPDI-057SC-A-04-05-201109 13.57, Description: USMPDI-057SC-A-04-05-201109

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.21	1.260e6	1.270e6	7.783e4	7.906e4	0.98	NO	1.569e5	50.622	50.622	0.384
2	1,2,3,4,6,7,8-HpCDD	38.22	1.523e6	1.480e6	7.534e4	7.393e4	1.02	NO	1.493e5	48.163	48.163	0.384

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.32	2.818e3	3.936e3	1.986e2	2.869e2	0.69	NO	4.855e2	0.079897	0.079897	0.0642
2	Total Tetra-Furans	20.88	2.988e3	3.017e3	2.235e2	2.625e2	0.85	NO	4.860e2	0.079976	0.079976	0.0642
3	Total Tetra-Furans	21.68	1.687e4	2.213e4	1.525e3	2.008e3	0.76	NO	3.534e3	0.58150	0.58150	0.0642
4	Total Tetra-Furans	22.62	1.457e4	1.854e4	1.271e3	1.774e3	0.72	NO	3.045e3	0.50107	0.50107	0.0642
5	Total Tetra-Furans	23.08	1.481e4	1.557e4	1.063e3	1.362e3	0.78	NO	2.425e3	0.39912	0.39912	0.0642
6	Total Tetra-Furans	23.20	1.417e3	1.156e3	1.151e2	8.427e1	1.37	YES	0.000e0	0.00000	0.024546	0.0642
7	Total Tetra-Furans	23.44	2.733e3	3.032e3	1.859e2	2.465e2	0.75	NO	4.324e2	0.071150	0.071150	0.0642
8	Total Tetra-Furans	23.84	2.294e3	2.416e3	1.287e2	1.846e2	0.70	NO	3.133e2	0.051562	0.051562	0.0642
9	Total Tetra-Furans	23.97	2.882e3	2.878e3	1.423e2	1.699e2	0.84	NO	3.122e2	0.051384	0.051384	0.0642
10	Total Tetra-Furans	24.16	6.933e3	8.368e3	4.554e2	5.650e2	0.81	NO	1.020e3	0.16793	0.16793	0.0642
11	Total Tetra-Furans	24.23	9.438e3	1.647e4	7.519e2	1.125e3	0.67	NO	1.877e3	0.30888	0.30888	0.0642
12	Total Tetra-Furans	24.52	1.979e3	2.662e3	1.285e2	1.848e2	0.70	NO	3.133e2	0.051555	0.051555	0.0642
13	Total Tetra-Furans	24.68	3.812e4	4.601e4	2.692e3	3.427e3	0.79	NO	6.119e3	1.0069	1.0069	0.0642
14	Total Tetra-Furans	25.00	4.226e3	3.756e3	2.488e2	2.816e2	0.88	NO	5.304e2	0.087293	0.087293	0.0642
15	Total Tetra-Furans	25.43	2.208e3	2.928e3	1.257e2	1.490e2	0.84	NO	2.747e2	0.045210	0.045210	0.0642
16	Total Tetra-Furans	25.57	8.564e3	1.151e4	5.883e2	8.075e2	0.73	NO	1.396e3	0.22969	0.22969	0.0642
17	2,3,7,8-TCDF	25.70	3.800e4	5.077e4	2.552e3	3.495e3	0.73	NO	6.046e3	0.99498	0.99498	0.0642
18	Total Tetra-Furans	25.93	1.519e3	1.484e3	8.398e1	9.678e1	0.87	NO	1.808e2	0.029747	0.029747	0.0642
19	Total Tetra-Furans	25.98	3.746e3	4.630e3	2.634e2	3.446e2	0.76	NO	6.080e2	0.10006	0.10006	0.0642
20	Total Tetra-Furans	26.87	3.860e3	4.403e3	2.039e2	2.782e2	0.73	NO	4.821e2	0.079339	0.079339	0.0642
21	Total Tetra-Furans	27.01	6.124e3	1.173e4	3.989e2	5.938e2	0.67	NO	9.926e2	0.16335	0.16335	0.0642
22	Total Tetra-Furans	27.21	4.062e3	5.839e3	2.584e2	3.800e2	0.68	NO	6.385e2	0.10507	0.10507	0.0642
23	Total Tetra-Furans	27.40	6.325e3	3.677e3	3.398e2	1.723e2	1.97	YES	0.000e0	0.00000	0.050176	0.0642
24	Total Tetra-Furans	27.56	5.005e3	5.502e3	2.445e2	2.861e2	0.85	NO	5.306e2	0.087321	0.087321	0.0642

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_12.qld

Last Altered: Tuesday, December 22, 2020 9:05:03 AM Pacific Standard Time

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Name: 201216R1_12, Date: 16-Dec-2020, Time: 16:47:18, ID: 2002493-10 USMPDI-057SC-A-04-05-201109 13.57, Description: USMPDI-057SC-A-04-05-201109

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	27.18	1.649e5	1.066e5	9.802e3	6.114e3	1.60	NO	1.592e4	2.8314	2.8314	0.0163

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.65	7.117e3	3.093e3	3.202e2	2.369e2	1.35	NO	5.571e2	0.099111	0.099111	0.0613
2	Total Penta-Furans	28.82	5.570e4	3.782e4	3.774e3	2.662e3	1.42	NO	6.436e3	1.1449	1.1449	0.0613
3	Total Penta-Furans	29.43	2.199e4	1.786e4	1.434e3	9.160e2	1.57	NO	2.350e3	0.41801	0.41801	0.0613
4	Total Penta-Furans	29.62	1.141e4	9.091e3	7.092e2	5.276e2	1.34	NO	1.237e3	0.22001	0.22001	0.0613
5	1,2,3,7,8-PeCDF	29.81	6.134e4	4.516e4	3.302e3	2.296e3	1.44	NO	5.598e3	0.95291	0.95291	0.0637
6	Total Penta-Furans	30.05	3.444e4	2.399e4	1.986e3	1.465e3	1.36	NO	3.451e3	0.61397	0.61397	0.0613
7	2,3,4,7,8-PeCDF	30.87	6.126e4	4.597e4	3.312e3	2.613e3	1.27	YES	5.925e3	0.00000	0.91260	0.0528

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	2.329e4	2.204e4	1.099e3	9.613e2	1.14	NO	2.060e3	0.50951	0.50951	0.0539
2	Total Hexa-Furans	32.36	7.724e4	6.986e4	3.603e3	3.129e3	1.15	NO	6.733e3	1.6652	1.6652	0.0539
3	Total Hexa-Furans	33.00	9.936e4	7.940e4	4.730e3	3.936e3	1.20	NO	8.666e3	2.1434	2.1434	0.0539
4	1,2,3,4,7,8-HxCDF	33.46	6.084e4	5.158e4	2.934e3	2.498e3	1.17	NO	5.432e3	1.3350	1.3350	0.0508
5	1,2,3,6,7,8-HxCDF	33.59	2.049e4	1.914e4	1.068e3	9.076e2	1.18	NO	1.976e3	0.46404	0.46404	0.0488
6	2,3,4,6,7,8-HxCDF	34.27	1.434e4	9.083e3	7.059e2	5.339e2	1.32	NO	1.240e3	0.30386	0.30386	0.0527
7	1,2,3,7,8,9-HxCDF	35.26	7.372e3	4.016e3	1.236e2	1.149e2	1.08	NO	2.386e2	0.066371	0.066371	0.0672
8	Total Hexa-Furans	35.27	1.006e4	7.918e3	5.419e2	3.850e2	1.41	NO	9.269e2	0.22924	0.22924	0.0539

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	36.83	1.276e5	1.284e5	7.969e3	7.799e3	1.02	NO	1.577e4	5.3658	5.3658	0.0947
2	Total Hepta-Furans	37.55	1.798e5	1.901e5	1.085e4	1.104e4	0.98	NO	2.189e4	8.1158	8.1158	0.0921
3	1,2,3,4,7,8,9-HpCDF	38.85	1.171e4	9.442e3	5.676e2	4.964e2	1.14	NO	1.064e3	0.38661	0.38661	0.0794

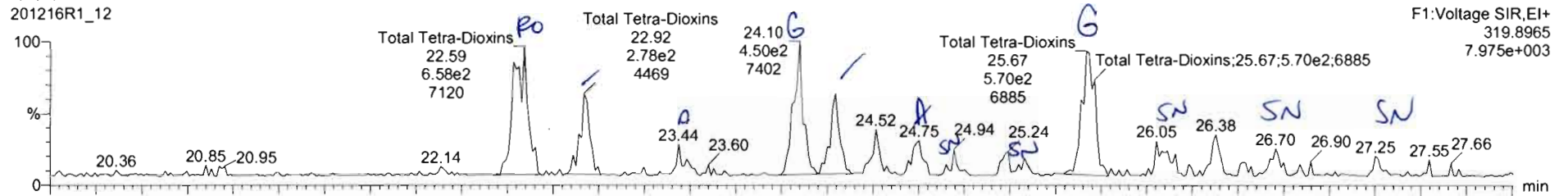
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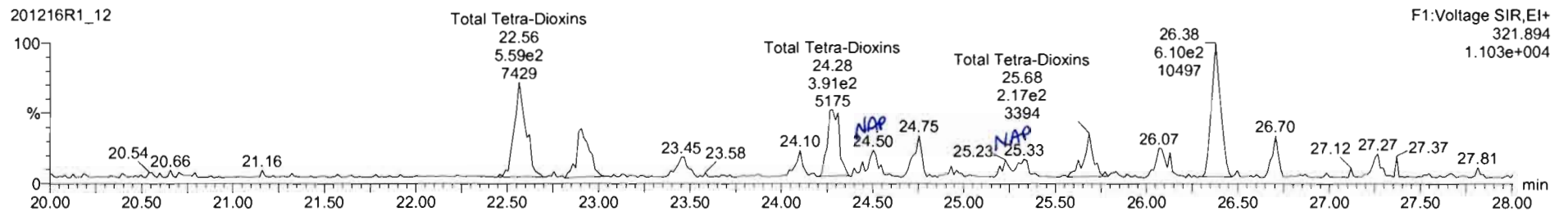
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2,3,7,8-TCDD

201216R1_12

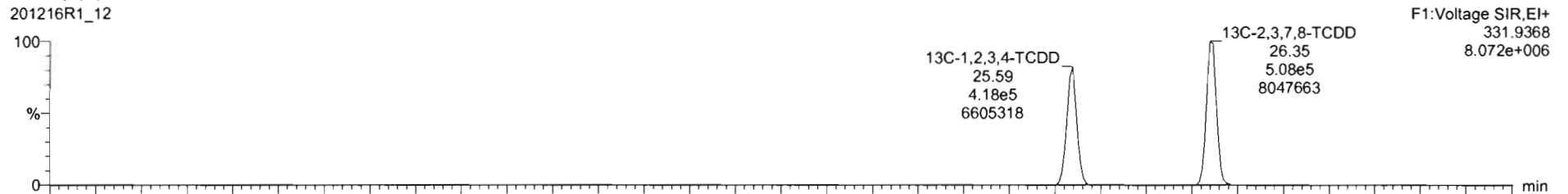


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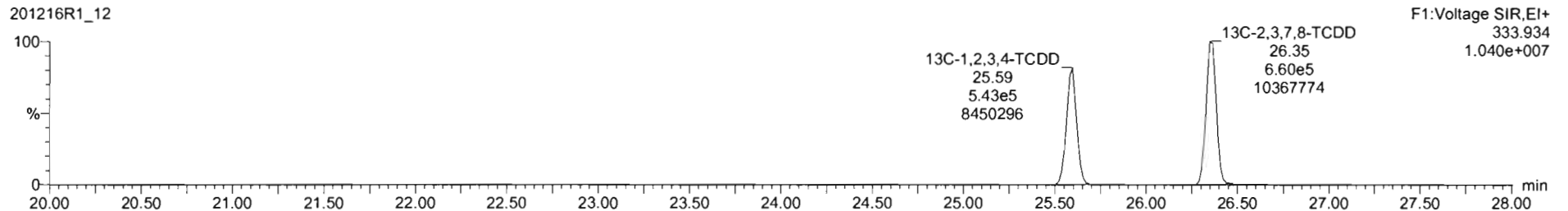


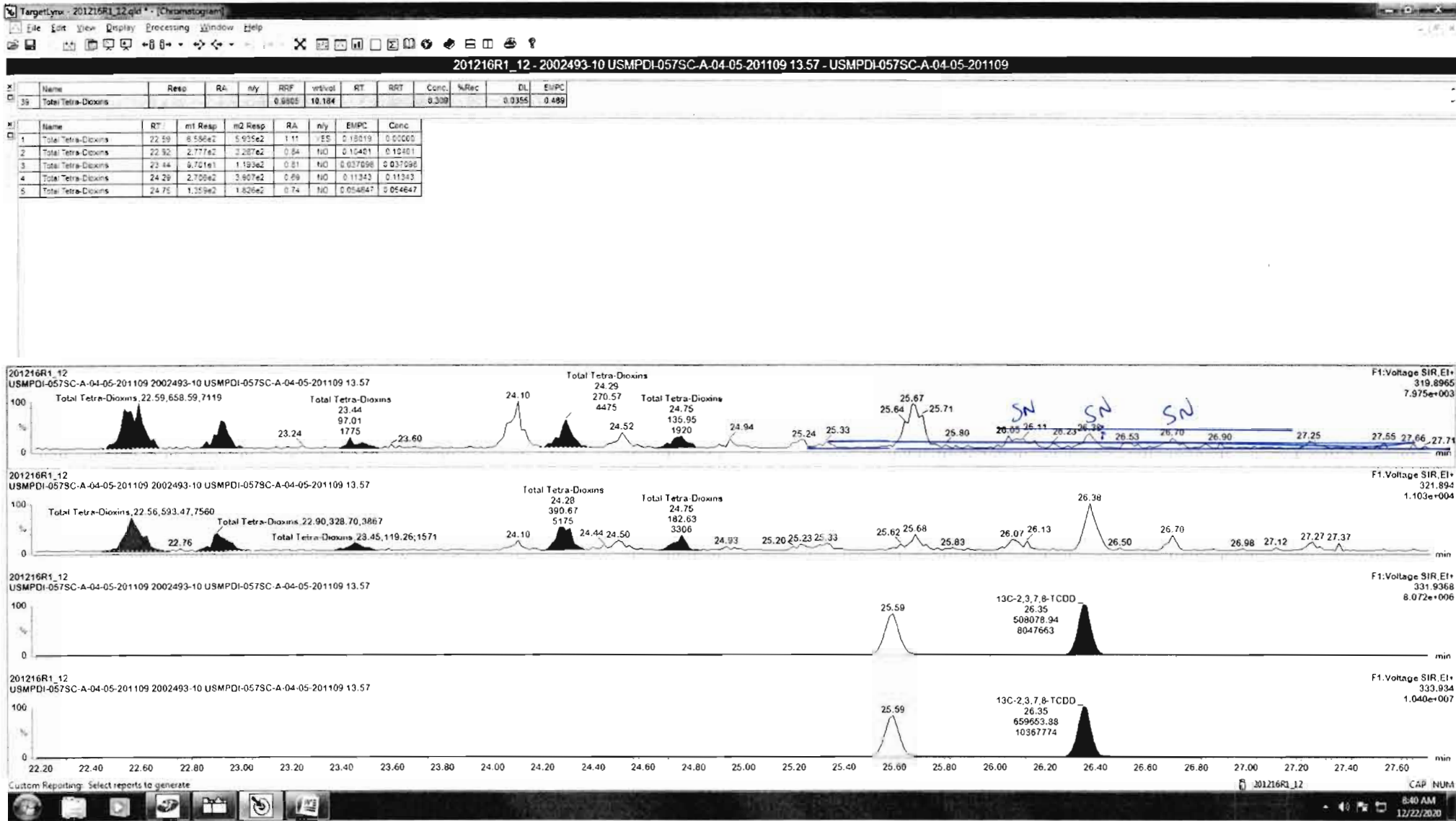
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201216R1_12





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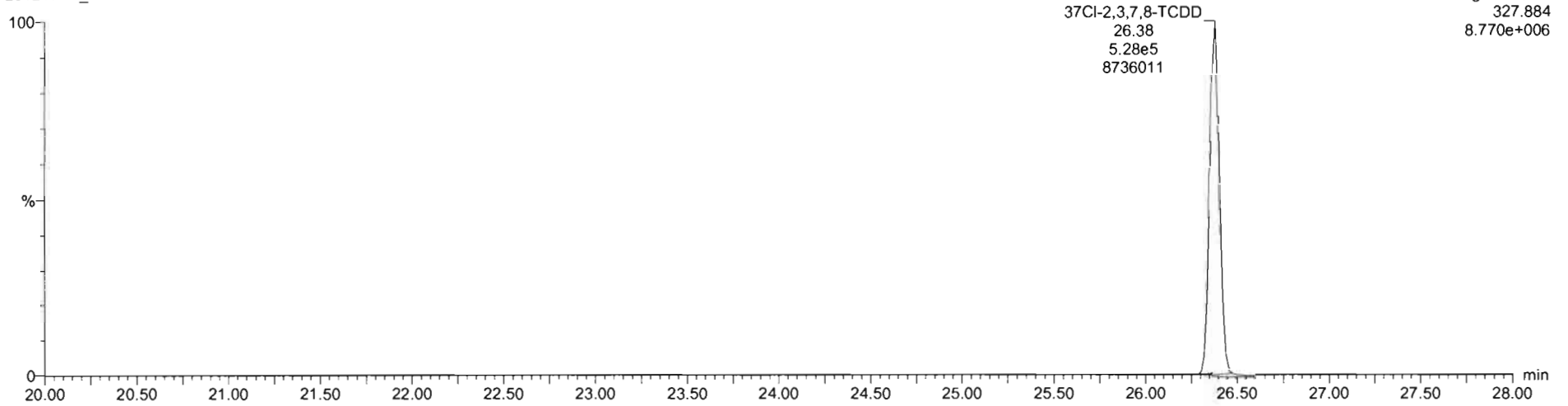
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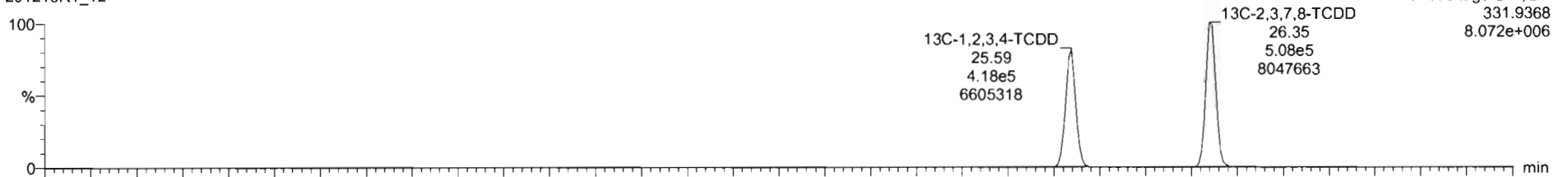
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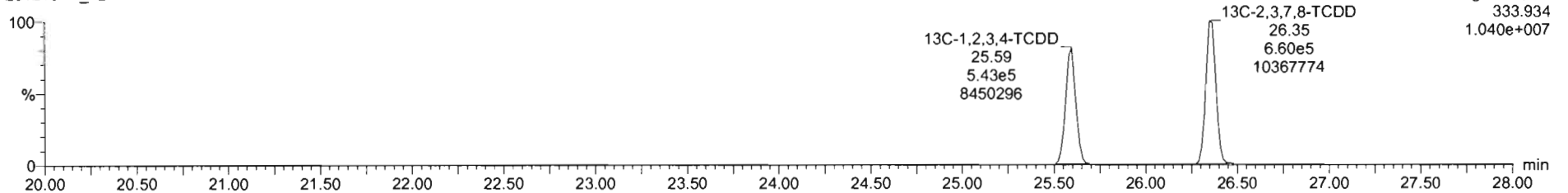


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201216R1_12



201216R1_12



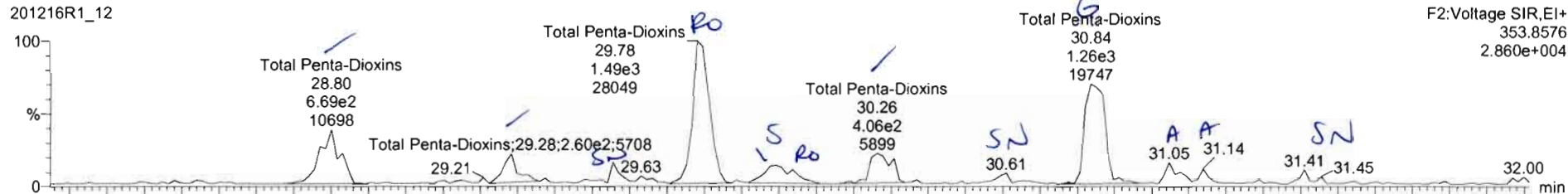
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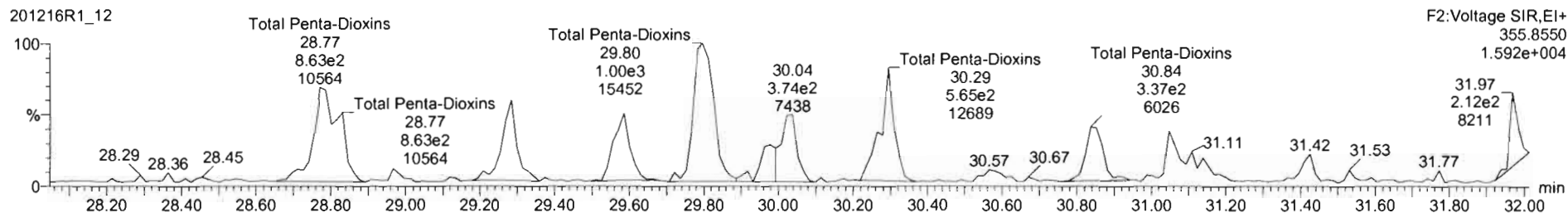
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1,2,3,7,8-PeCDD

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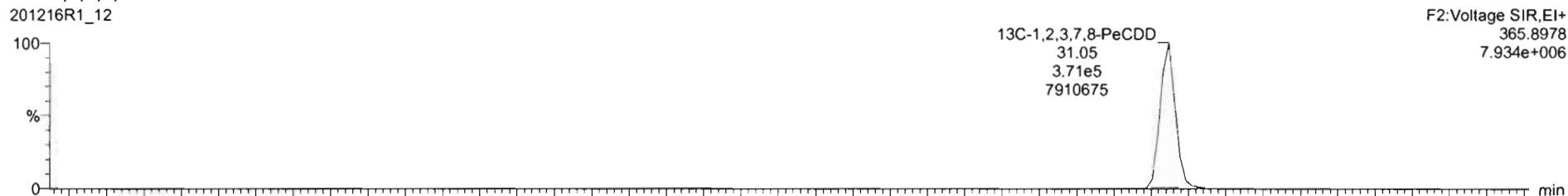


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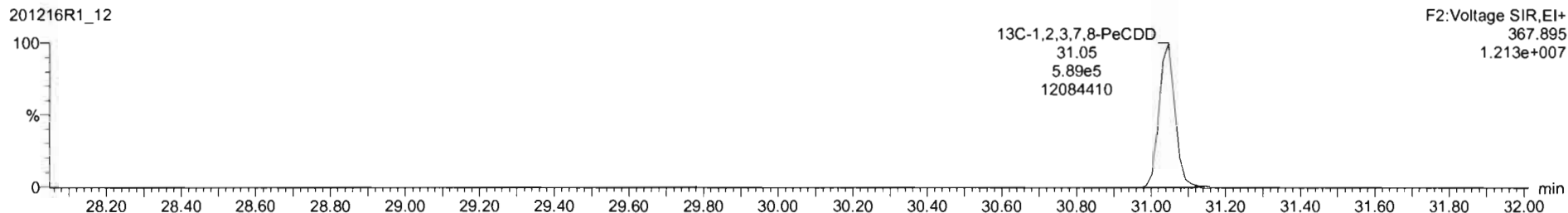


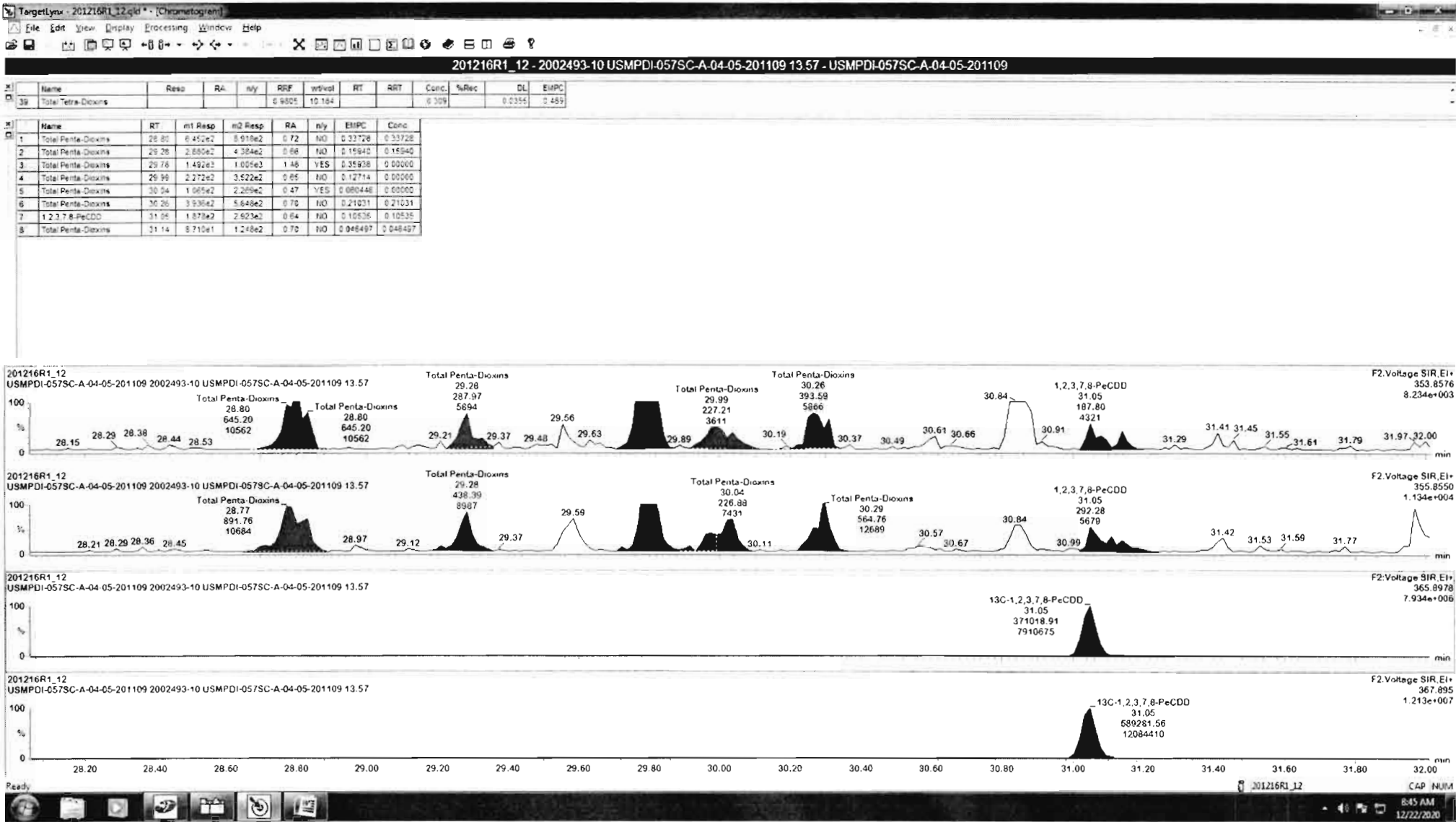
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201216R1_12



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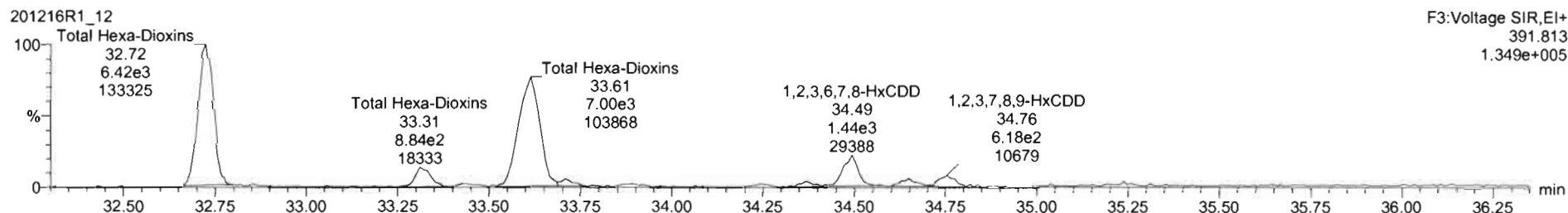
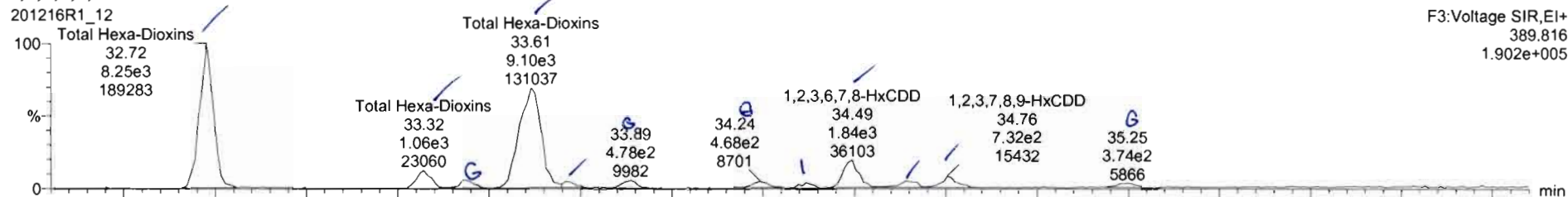


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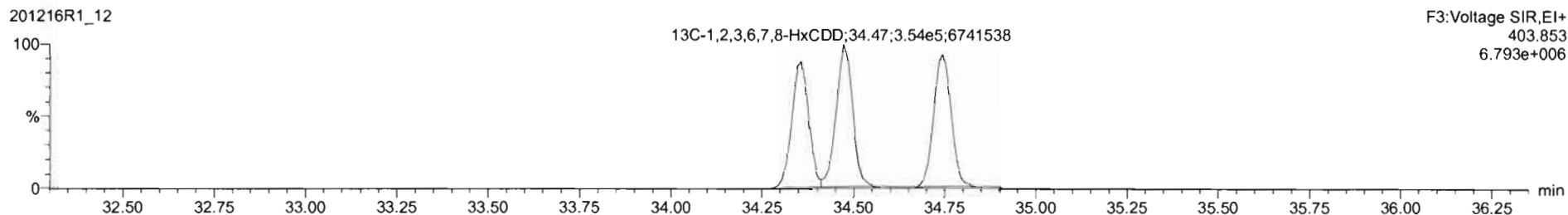
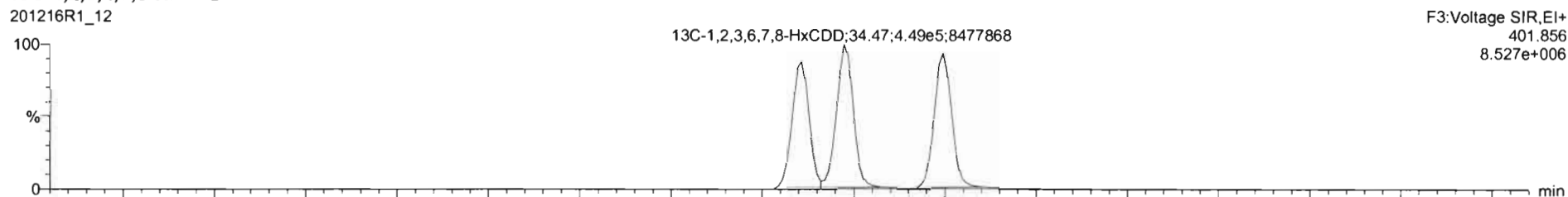
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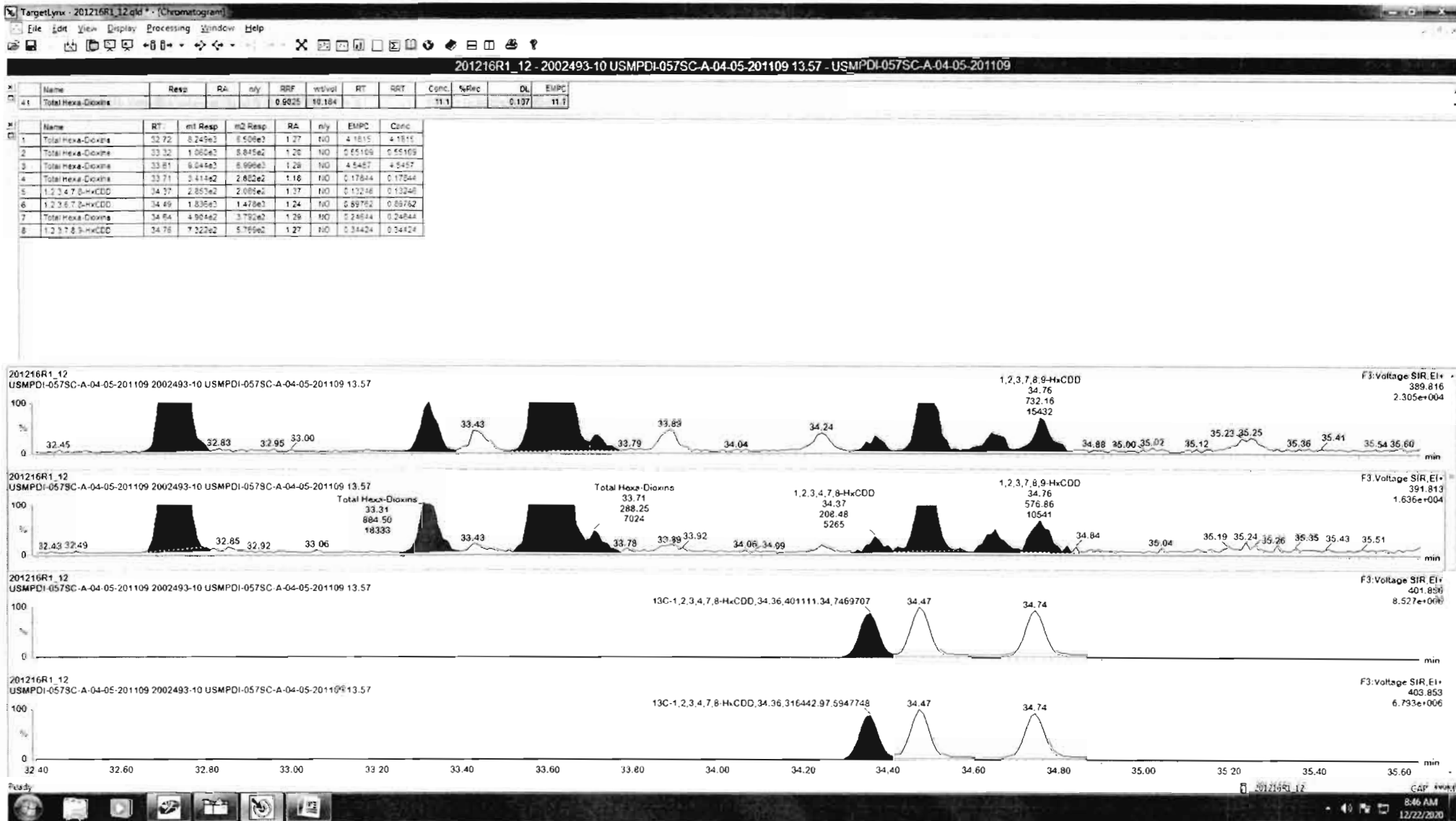
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1,2,3,4,7,8-HxCDD



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





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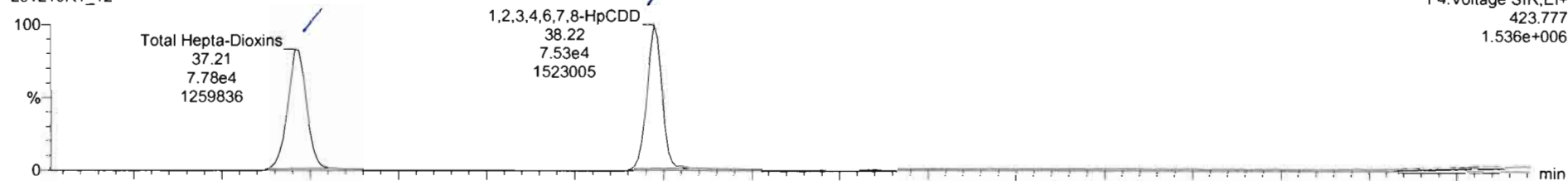
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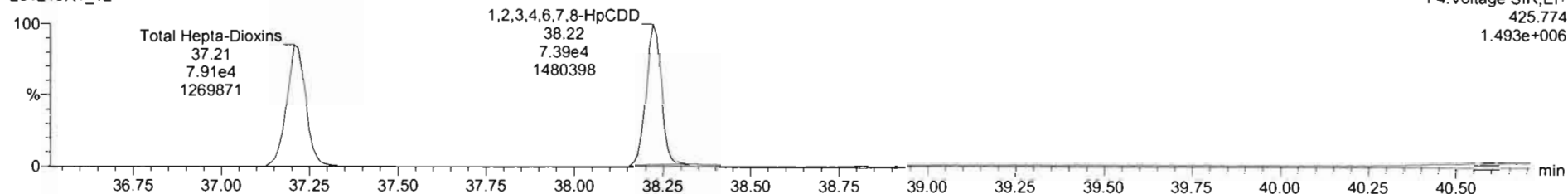
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1,2,3,4,6,7,8-HpCDD

201216R1_12

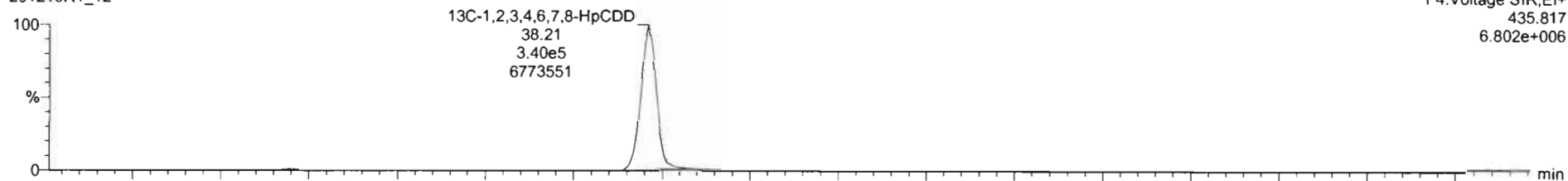


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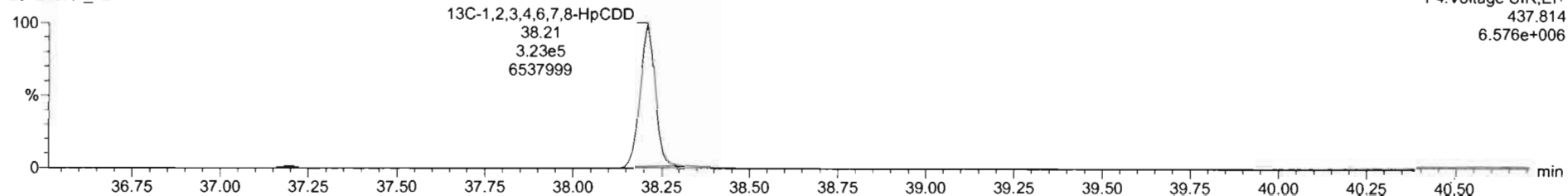


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201216R1_12



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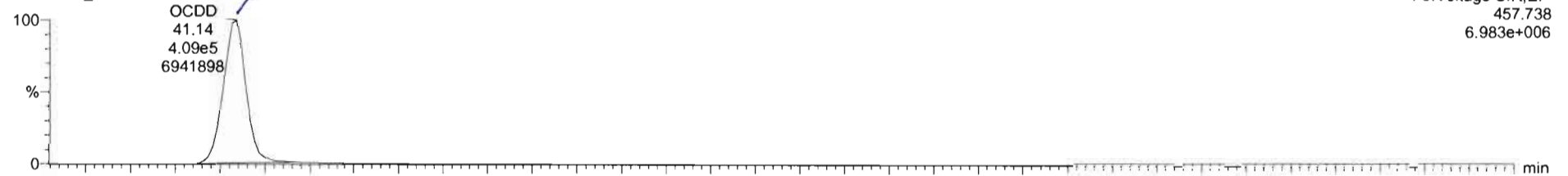
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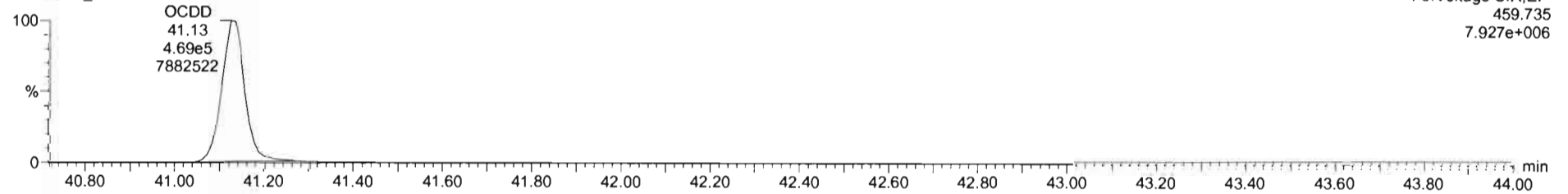
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OCDD

201216R1_12

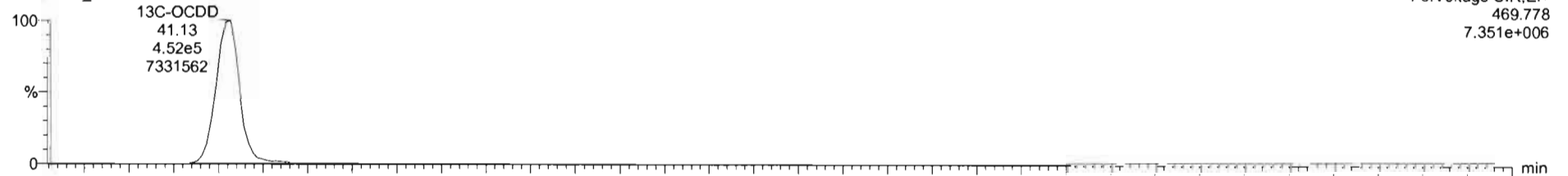


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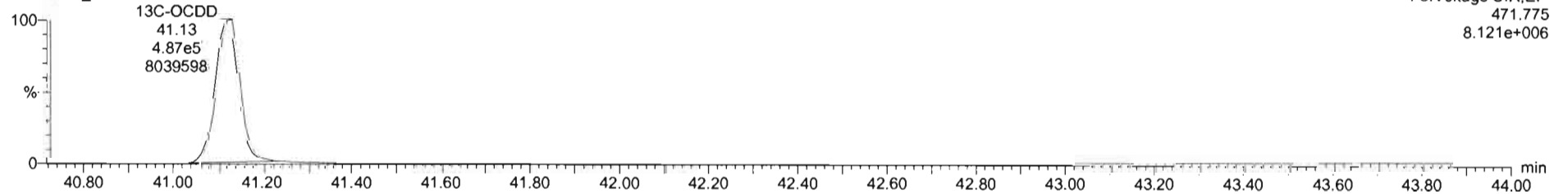


13C-OCDD

201216R1_12



201216R1_12

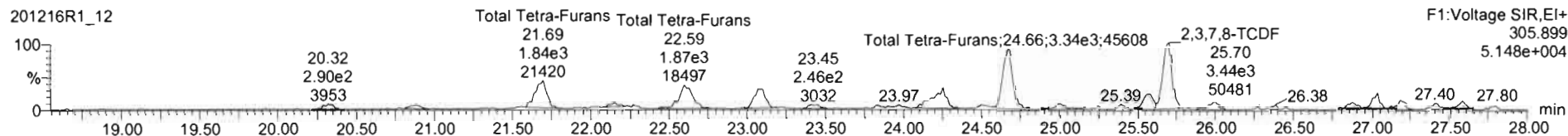
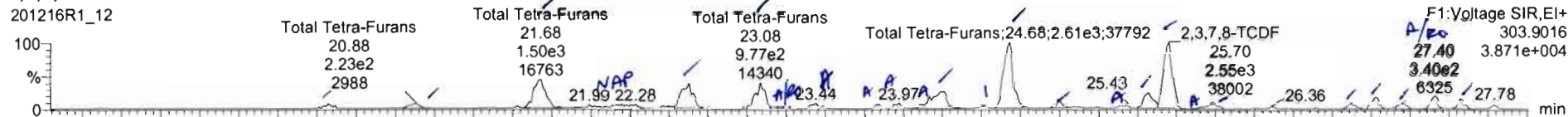


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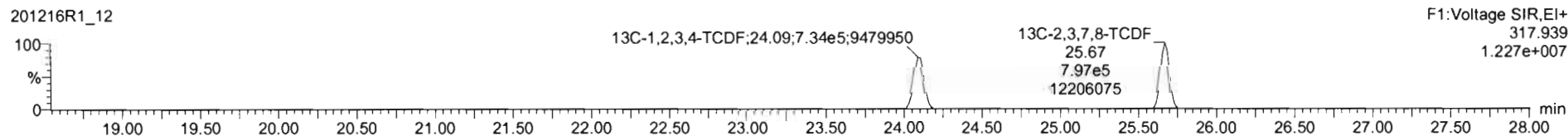
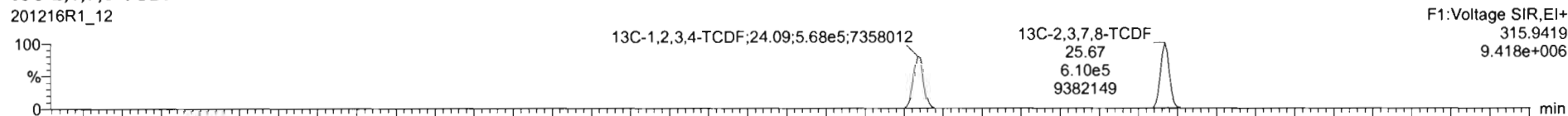
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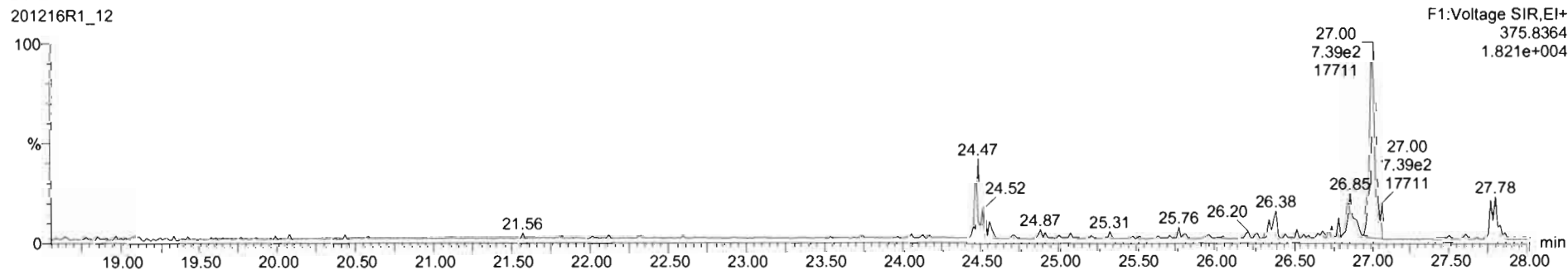
2,3,7,8-TCDF

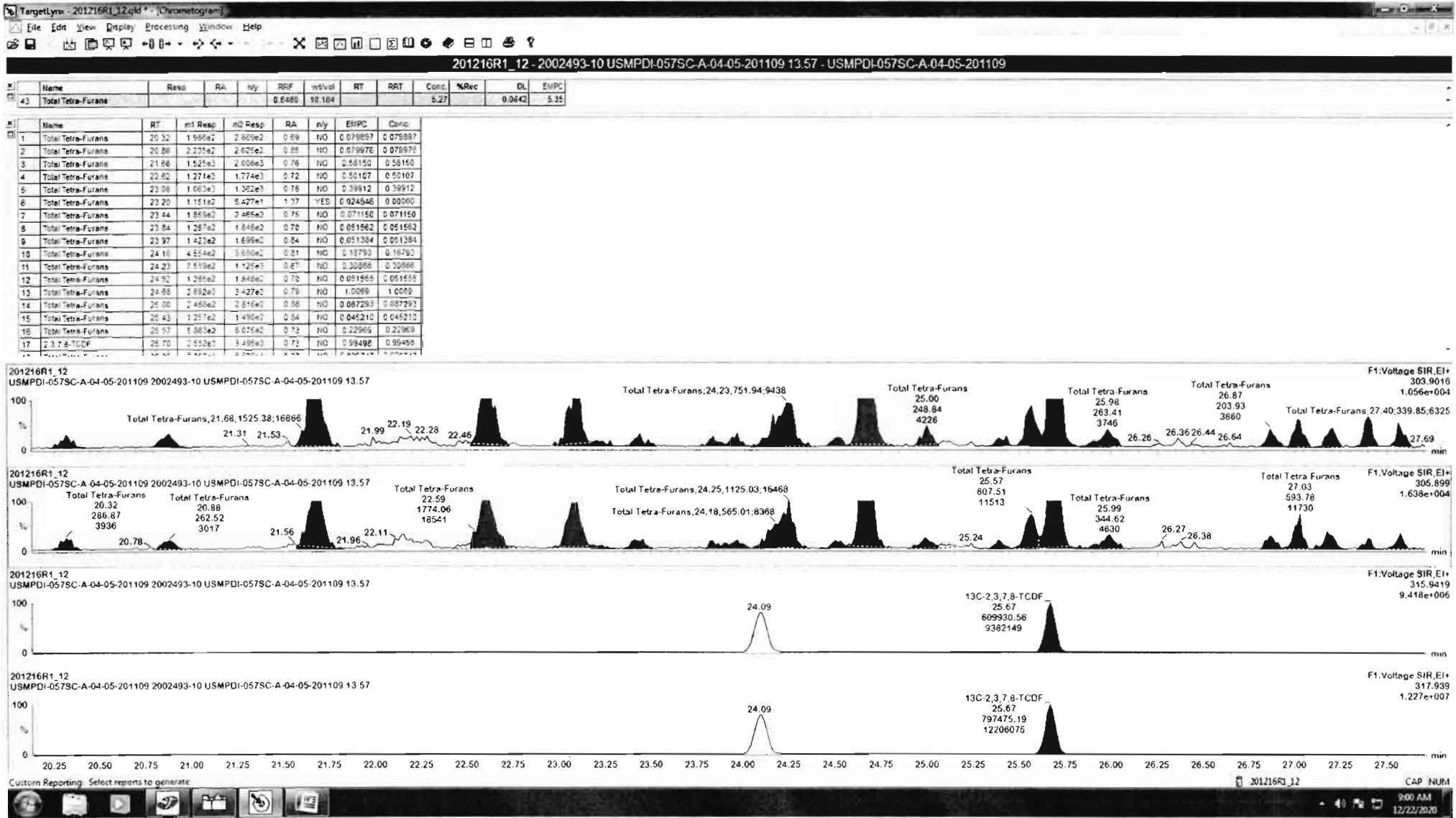


13C-2,3,7,8-TCDF



DPE1





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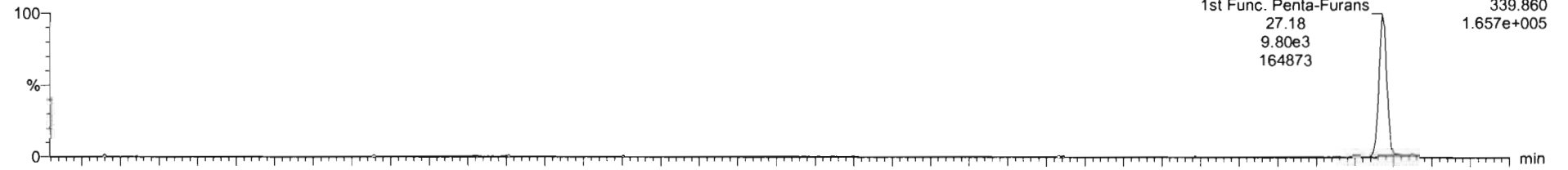
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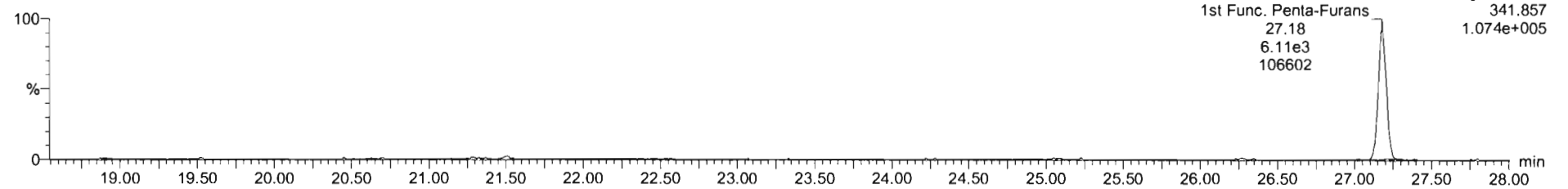
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1st Func. Penta-Furans

201216R1_12

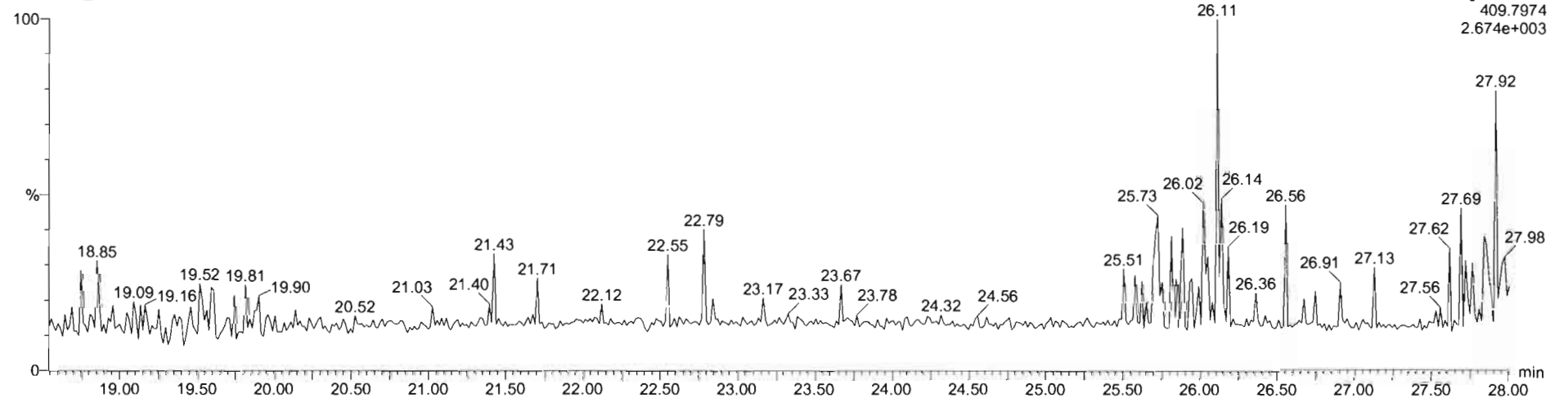


201216R1_12



DPE6

201216R1_12



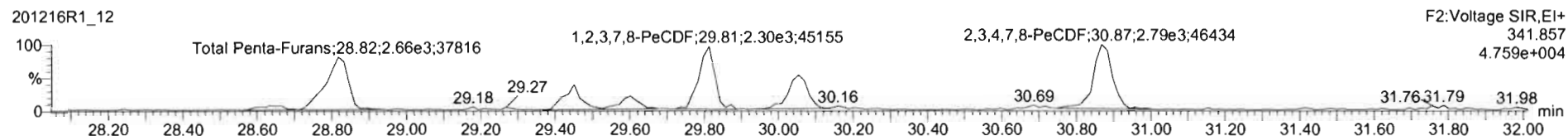
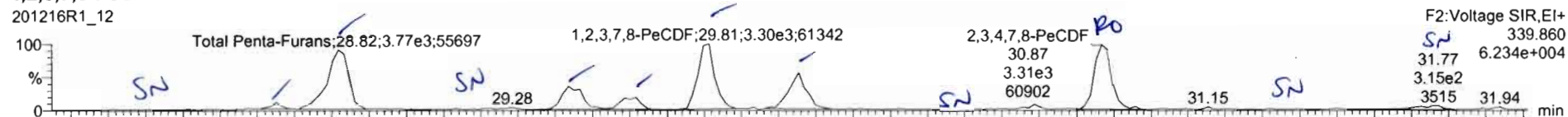
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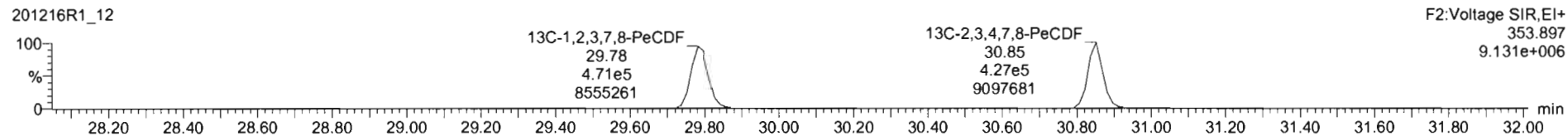
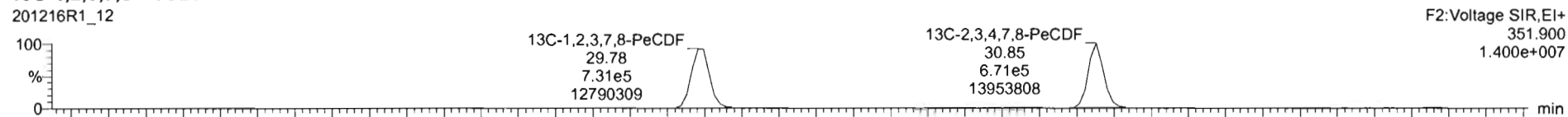
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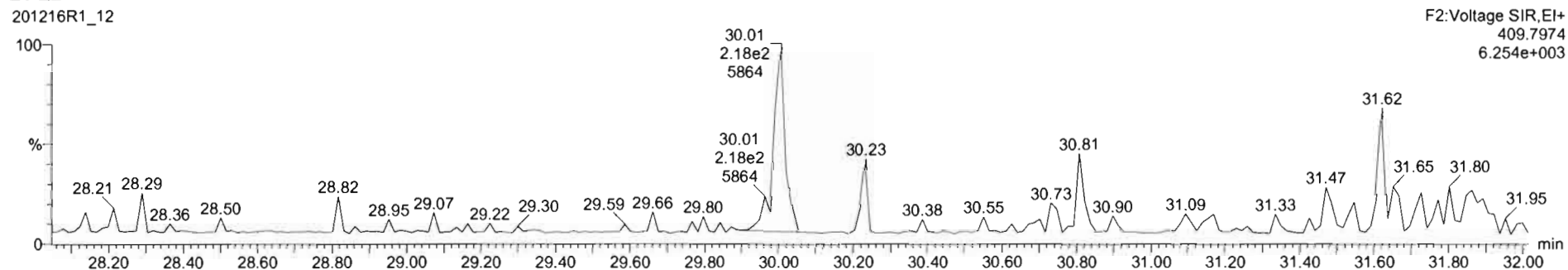
1,2,3,7,8-PeCDF



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

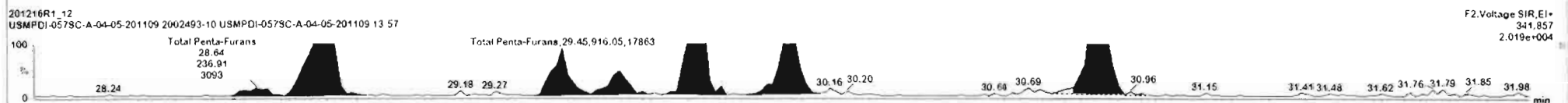
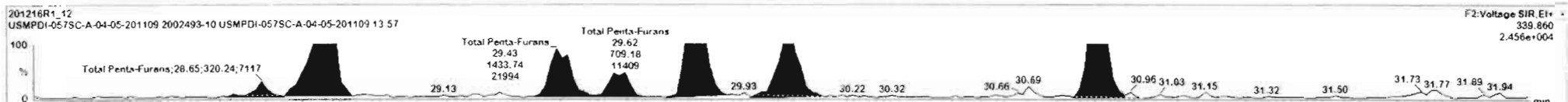


DPE2



Name	Reso	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans			0	9597	10.184			3.45		0.0813	3.36

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.65	3.222e2	2.369e2	1.35	NO	0.099111	0.099111
2 Total Penta-Furans	28.82	3.774e2	2.662e2	1.42	NO	1.1449	1.1449
3 Total Penta-Furans	29.43	1.434e3	8.180e2	1.57	NO	0.41801	0.41801
4 Total Penta-Furans	29.62	7.692e2	5.278e2	1.54	NO	0.22001	0.22001
5 1,2,3,7,8-PeCDF	29.81	3.302e3	2.296e3	1.44	NO	0.95261	0.95261
6 Total Penta-Furans	30.95	1.986e3	1.485e2	1.36	NO	0.61397	0.61397
7 2,3,4,7,8-PeCDF	30.87	3.312e3	2.613e3	1.27	YES	0.91260	0.00000

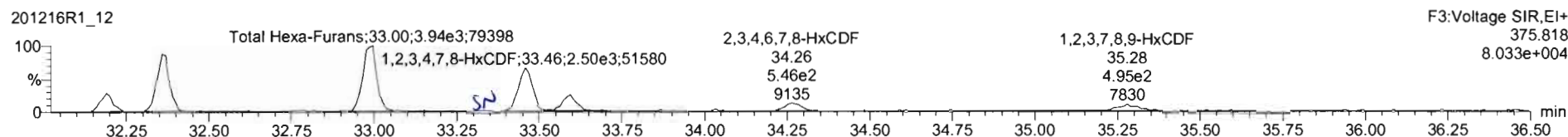
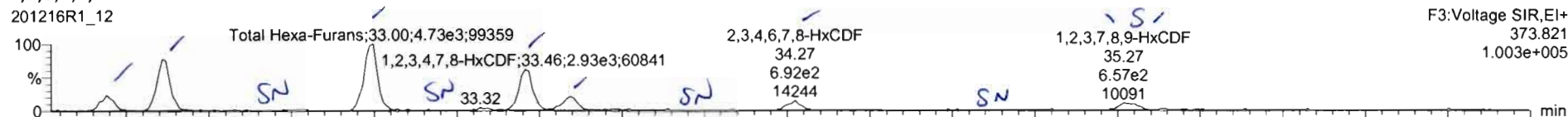


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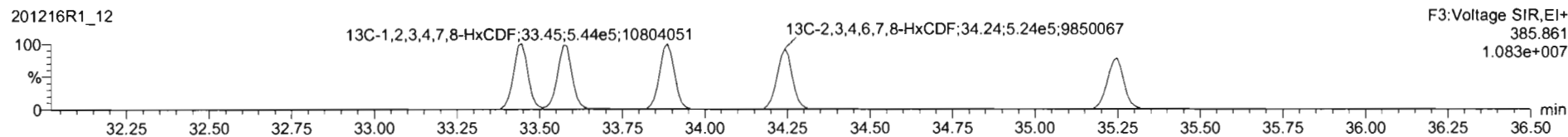
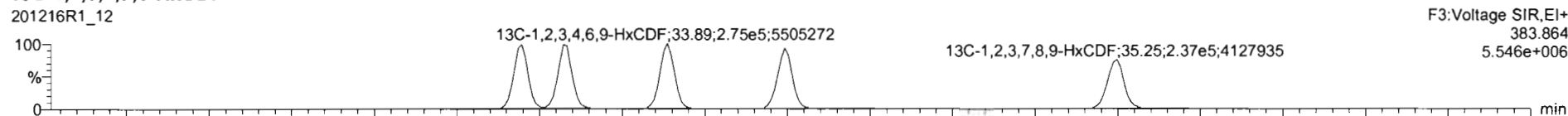
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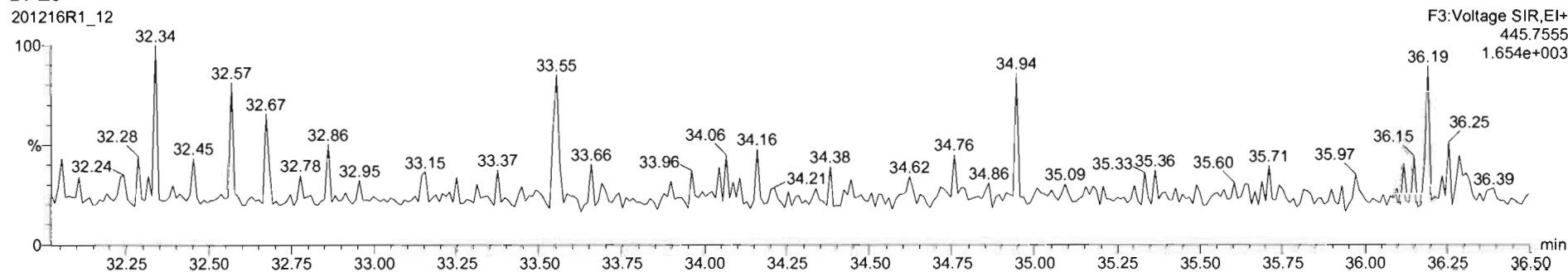
1,2,3,4,7,8-HxCDF



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



DPE3



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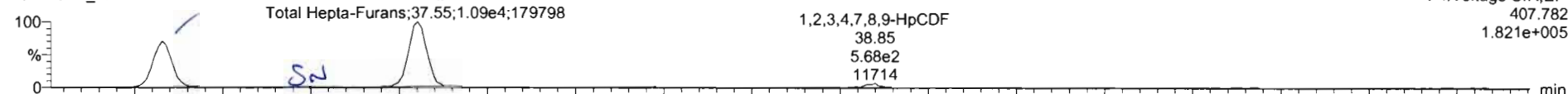
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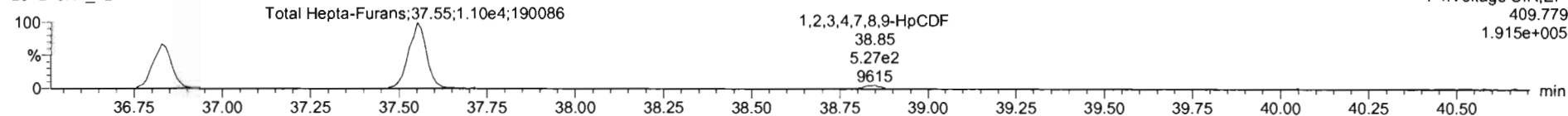
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1,2,3,4,6,7,8-HpCDF

201216R1_12

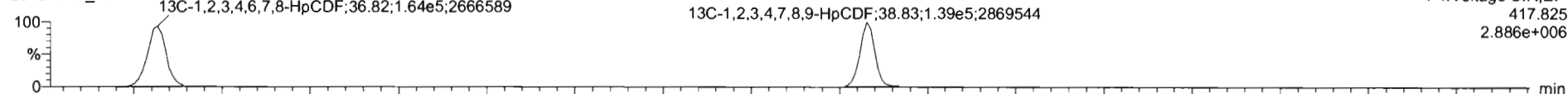


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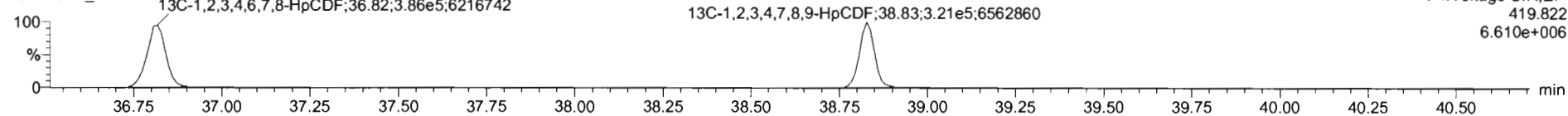


13C-1,2,3,4,6,7,8-HpCDF

201216R1_12

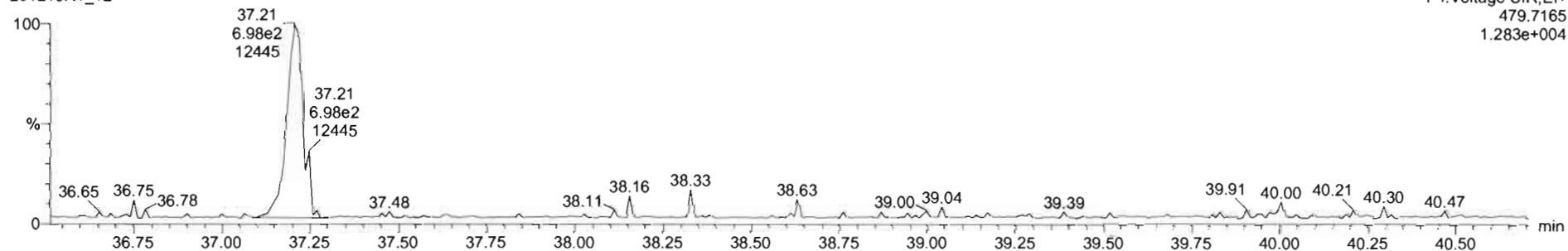


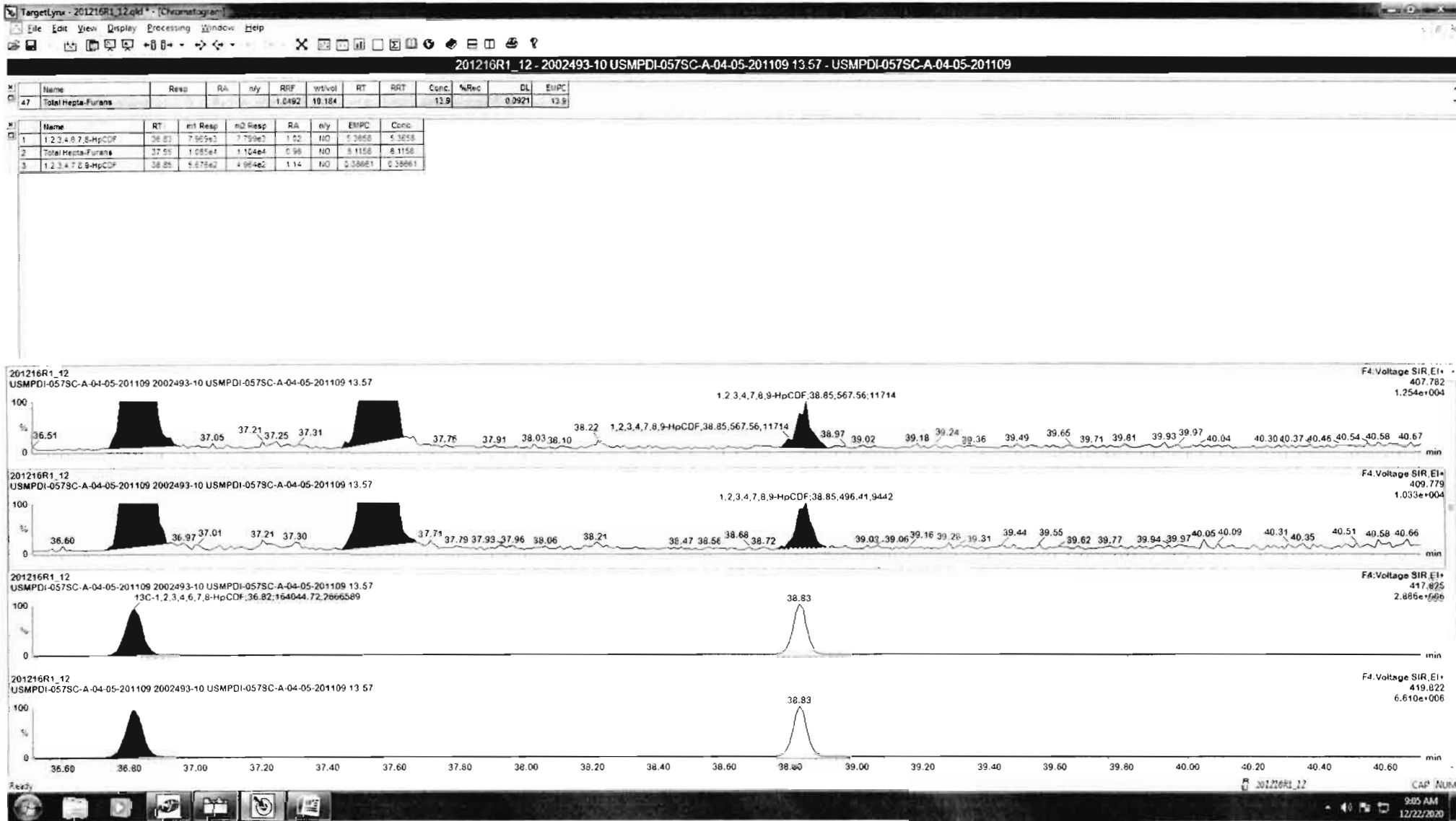
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DPE4

201216R1_12



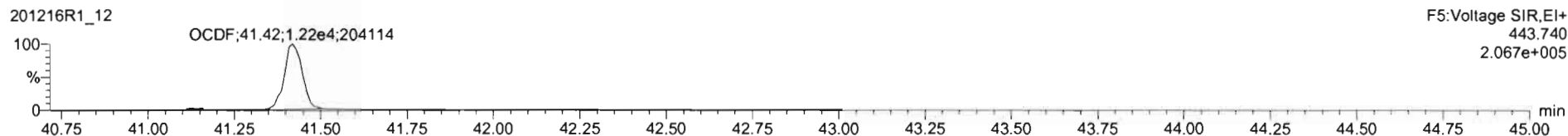
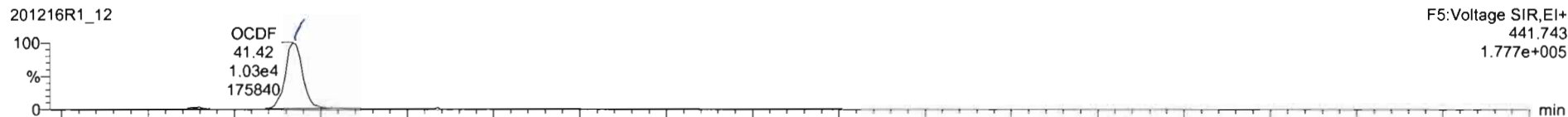


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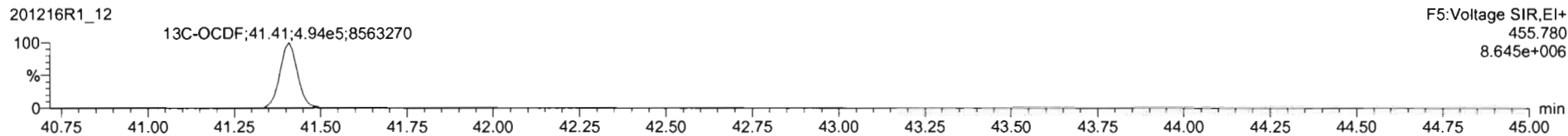
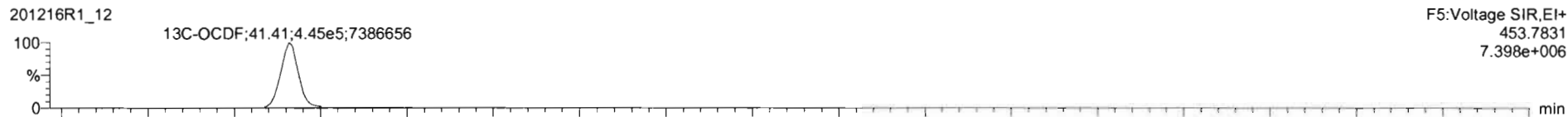
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_12, Date: 16-Dec-2020, Time: 16:47:18, ID: 2002493-10 USMPDI-057SC-A-04-05-201109 13.57, Description: USMPDI-057SC-A-04-05-201109

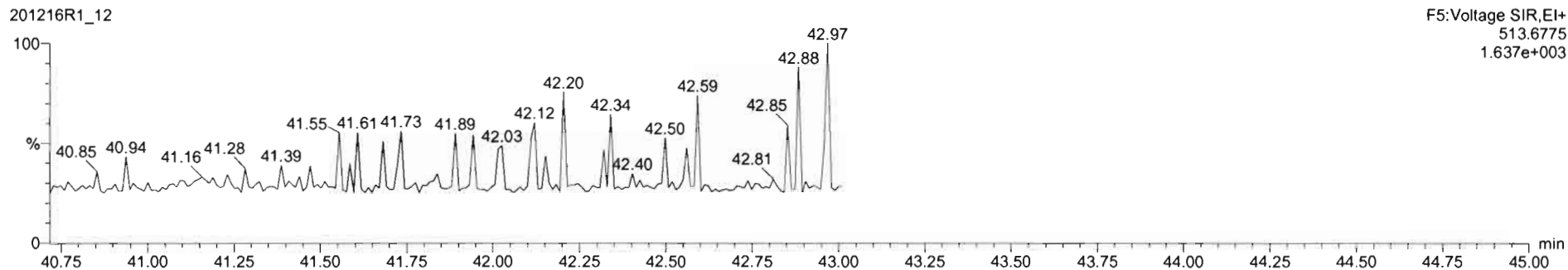
OCDF



13C-OCDF



DPE5

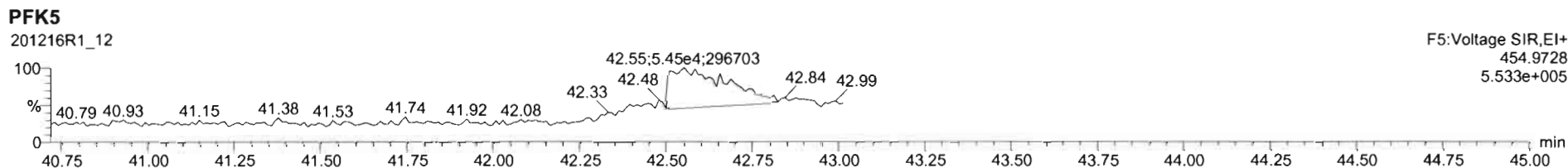
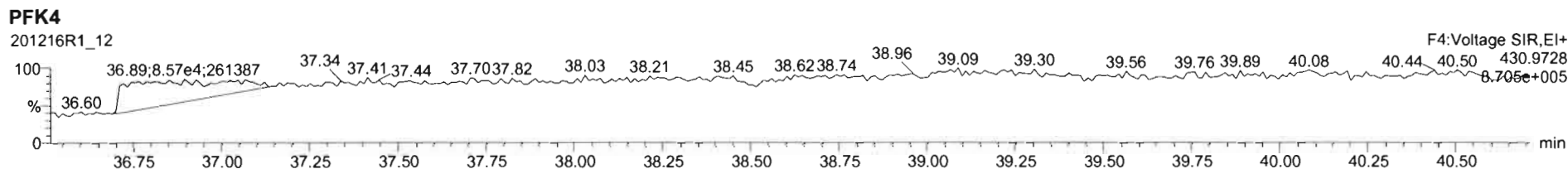
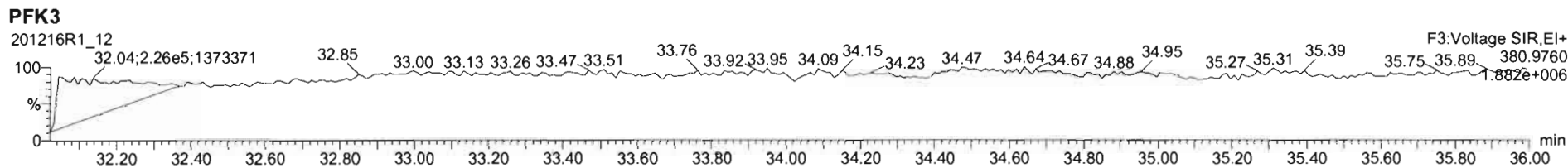
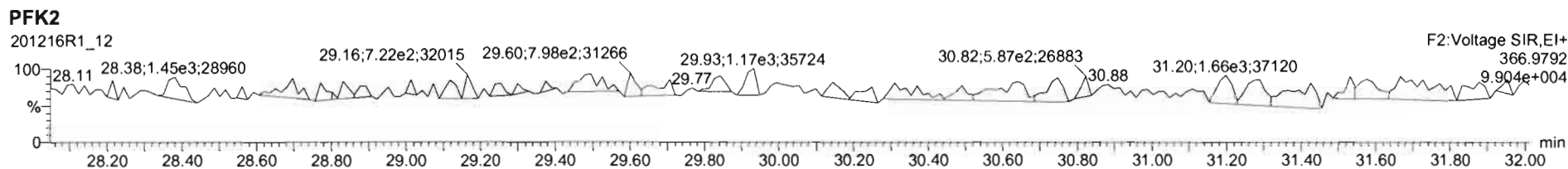
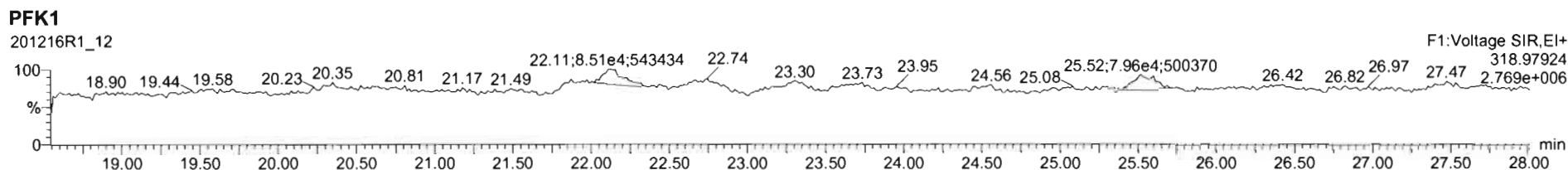


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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_13.qld

Last Altered: Tuesday, December 22, 2020 9:25:11 AM Pacific Standard Time

Printed: Tuesday, December 22, 2020 9:25:29 AM Pacific Standard Time

GPB 12/22/2020

Method: Untitled 11 Dec 2020 08:35:32

Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

MW 12/22/20

Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109

#	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	6.91e2	0.18	YES	0.980	10.104	26.381	26.36	1.001	1.001	0.11827		0.0268	0.0411
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.104	31.064		1.001				0.0454	
3	3 1,2,3,4,7,8-HxCDD	1.78e2	1.25	NO	1.02	10.104	34.358	34.35	1.001	1.000	0.048724		0.0490	0.0487
4	4 1,2,3,6,7,8-HxCDD	2.98e2	1.42	NO	0.902	10.104	34.484	34.46	1.001	1.000	0.083943		0.0515	0.0839
5	5 1,2,3,7,8,9-HxCDD	4.98e2	1.29	NO	0.954	10.104	34.745	34.73	1.000	1.000	0.13596		0.0511	0.136
6	6 1,2,3,4,6,7,8-HpCDD	4.40e3	0.94	NO	0.918	10.104	38.211	38.20	1.000	1.000	1.4818		0.110	1.48
7	7 OCDD	4.70e4	0.89	NO	0.866	10.104	41.113	41.13	1.000	1.001	22.804		0.140	22.8
8	8 2,3,7,8-TCDF			NO	0.848	10.104	25.672		1.000				0.0139	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.104	29.785		1.000				0.0210	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.104	30.859		1.001				0.0181	
11	11 1,2,3,4,7,8-HxCDF	2.33e2	1.04	YES	0.986	10.104	33.447	33.45	1.000	1.000	0.058420		0.0139	0.0538
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.104	33.593		1.001				0.0242	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.104	34.253		1.001				0.0262	
14	14 1,2,3,7,8,9-HxCDF	1.74e2	1.69	YES	0.991	10.104	35.238	35.25	1.000	1.001	0.049494		0.0177	0.0413
15	15 1,2,3,4,6,7,8-HpCDF	3.28e2	0.91	NO	1.05	10.104	36.814	36.81	1.000	1.000	0.11162		0.0403	0.112
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.104	38.828		1.000				0.0339	
17	17 OCDF	1.02e3	0.84	NO	0.896	10.104	41.406	41.40	1.000	1.000	0.46678		0.0587	0.467
18	18 13C-2,3,7,8-TCDD	1.18e6	0.78	NO	1.06	10.104	26.353	26.35	1.030	1.030	225.11	114	0.125	
19	19 13C-1,2,3,7,8-PeCDD	9.21e5	0.61	NO	0.785	10.104	31.192	31.03	1.219	1.213	236.65	120	0.190	
20	20 13C-1,2,3,4,7,8-HxCDD	7.09e5	1.27	NO	0.621	10.104	34.337	34.34	1.014	1.014	275.70	139	0.392	
21	21 13C-1,2,3,6,7,8-HxCDD	7.80e5	1.26	NO	0.734	10.104	34.459	34.46	1.017	1.017	256.43	130	0.331	
22	22 13C-1,2,3,7,8,9-HxCDD	7.60e5	1.24	NO	0.723	10.104	34.743	34.74	1.026	1.025	253.73	128	0.336	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.41e5	1.03	NO	0.568	10.104	38.243	38.20	1.129	1.128	272.40	138	0.839	
24	24 13C-OCDD	9.42e5	0.90	NO	0.496	10.104	41.180	41.10	1.216	1.213	458.31	116	0.567	
25	25 13C-2,3,7,8-TCDF	1.45e6	0.76	NO	0.919	10.104	25.652	25.67	1.003	1.003	232.85	118	0.139	
26	26 13C-1,2,3,7,8-PeCDF	1.19e6	1.58	NO	0.715	10.104	29.903	29.78	1.169	1.164	244.88	124	0.324	
27	27 13C-2,3,4,7,8-PeCDF	1.15e6	1.56	NO	0.689	10.104	30.990	30.84	1.212	1.206	245.87	124	0.337	
28	28 13C-1,2,3,4,7,8-HxCDF	8.01e5	0.49	NO	0.873	10.104	33.442	33.44	0.987	0.987	221.41	112	0.365	
29	29 13C-1,2,3,6,7,8-HxCDF	7.83e5	0.50	NO	0.933	10.104	33.571	33.57	0.991	0.991	202.33	102	0.342	
30	30 13C-2,3,4,6,7,8-HxCDF	7.52e5	0.51	NO	0.843	10.104	34.238	34.23	1.011	1.011	215.17	109	0.378	
31	31 13C-1,2,3,7,8,9-HxCDF	7.02e5	0.50	NO	0.780	10.104	35.238	35.23	1.040	1.040	217.33	110	0.409	

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_13.qld

Last Altered: Tuesday, December 22, 2020 9:25:11 AM Pacific Standard Time

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Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109

#	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	5.54e5	0.43	NO	0.726	10.104	36.813	36.80	1.087	1.086	184.03	93.0	0.550	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.62e5	0.43	NO	0.491	10.104	38.822	38.82	1.146	1.146	226.99	115	0.814	
34	34 13C-OCDF	9.62e5	0.88	NO	0.565	10.104	41.396	41.40	1.222	1.222	410.80	104	0.441	
35	35 37Cl-2,3,7,8-TCDD	5.19e5			1.22	10.104	26.347	26.36	1.030	1.031	85.956	109	0.0237	
36	36 13C-1,2,3,4-TCDD	9.82e5	0.78	NO	1.00	10.104	25.640	25.58	1.000	1.000	197.95	100	0.132	
37	37 13C-1,2,3,4-TCDF	1.34e6	0.77	NO	1.00	10.104	24.130	24.09	1.000	1.000	197.95	100	0.128	
38	38 13C-1,2,3,4,6,9-HxCDF	8.20e5	0.50	NO	1.00	10.104	33.920	33.88	1.000	1.000	197.95	100	0.319	
39	39 Total Tetra-Dioxins				0.980	10.104	24.620		0.000		0.23354		0.0268	0.275
40	40 Total Penta-Dioxins				0.932	10.104	29.960		0.000		0.14446		0.0454	0.512
41	41 Total Hexa-Dioxins				0.902	10.104	33.635		0.000		1.1770		0.0536	1.71
42	42 Total Hepta-Dioxins				0.918	10.104	37.640		0.000		3.6241		0.110	3.62
43	43 Total Tetra-Furans				0.848	10.104	23.610		0.000		0.024677		0.00608	0.0480
44	44 1st Func. Penta-Furans				0.960	10.104	26.930		0.000		0.030320		0.00408	0.0303
45	45 Total Penta-Furans				0.960	10.104	29.275		0.000				0.00859	
46	46 Total Hexa-Furans				1.02	10.104	33.555		0.000		0.00000		0.0147	0.155
47	47 Total Hepta-Furans				1.05	10.104	37.835		0.000		0.35922		0.0393	0.359

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_13.qld

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Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.29	8.639e3	1.021e4	5.975e2	7.663e2	0.78	NO	1.364e3	0.23354	0.23354	0.0268
2	2,3,7,8-TCDD	26.36	1.997e3	1.025e4	1.045e2	5.862e2	0.18	YES	6.907e2	0.00000	0.041128	0.0268

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.80	5.417e3	3.732e3	1.905e2	2.713e2	0.70	NO	0.000e0	0.00000	0.10646	0.0454
2	Total Penta-Dioxins	29.28	5.973e3	6.459e3	2.487e2	3.779e2	0.66	NO	6.266e2	0.14446	0.14446	0.0454
3	Total Penta-Dioxins	29.78	2.607e4	7.140e3	1.151e3	4.207e2	2.74	YES	0.000e0	0.00000	0.15808	0.0454
4	Total Penta-Dioxins	30.85	1.762e4	5.845e3	9.141e2	2.750e2	3.32	YES	0.000e0	0.00000	0.10334	0.0454

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	3.082e4	2.772e4	1.389e3	1.225e3	1.13	NO	2.614e3	0.76501	0.76501	0.0536
2	Total Hexa-Dioxins	33.30	2.319e3	2.879e3	1.306e2	1.201e2	1.09	NO	2.507e2	0.073374	0.073374	0.0536
3	Total Hexa-Dioxins	33.58	2.020e4	1.036e4	1.256e3	8.170e2	1.54	YES	0.000e0	0.00000	0.53559	0.0536
4	1,2,3,4,7,8-HxCDD	34.35	2.801e3	1.680e3	9.901e1	7.900e1	1.25	NO	1.780e2	0.048724	0.048724	0.0490
5	1,2,3,6,7,8-HxCDD	34.46	3.276e3	2.358e3	1.749e2	1.236e2	1.42	NO	2.985e2	0.083943	0.083943	0.0515
6	Total Hexa-Dioxins	34.63	2.101e3	3.159e3	1.233e2	1.158e2	1.07	NO	2.391e2	0.069975	0.069975	0.0536
7	1,2,3,7,8,9-HxCDD	34.73	6.149e3	5.359e3	2.805e2	2.173e2	1.29	NO	4.979e2	0.13596	0.13596	0.0511

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.19	4.941e4	4.858e4	3.200e3	3.166e3	1.01	NO	6.366e3	2.1423	2.1423	0.110
2	1,2,3,4,6,7,8-HpCDD	38.20	4.386e4	5.173e4	2.129e3	2.274e3	0.94	NO	4.403e3	1.4818	1.4818	0.110

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_13.qld

Last Altered: Tuesday, December 22, 2020 9:25:11 AM Pacific Standard Time

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Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.68	1.061e3	1.121e3	7.685e1	8.208e1	0.94	YES	0.000e0	0.00000	0.023354	0.00608
2	Total Tetra-Furans	24.65	1.248e3	1.199e3	6.287e1	9.064e1	0.69	NO	1.535e2	0.024677	0.024677	0.00608

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	27.18	2.036e3	1.324e3	9.983e1	7.193e1	1.39	NO	1.718e2	0.030320	0.030320	0.00408

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.36	1.646e3	1.616e3	5.732e1	5.824e1	0.98	YES	0.000e0	0.00000	0.026458	0.0147
2	Total Hexa-Furans	33.00	1.664e3	2.102e3	7.264e1	8.735e1	0.83	YES	0.000e0	0.00000	0.033527	0.0147
3	1,2,3,4,7,8-HxCDF	33.45	2.544e3	3.447e3	1.189e2	1.143e2	1.04	YES	2.331e2	0.00000	0.053806	0.0139
4	1,2,3,7,8,9-HxCDF	35.25	2.483e3	1.786e3	1.092e2	6.476e1	1.69	YES	1.740e2	0.00000	0.041262	0.0177

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	36.81	2.168e3	2.780e3	1.565e2	1.712e2	0.91	NO	3.277e2	0.11162	0.11162	0.0403
2	Total Hepta-Furans	37.55	5.772e3	6.044e3	3.427e2	3.238e2	1.06	NO	6.665e2	0.24760	0.24760	0.0393

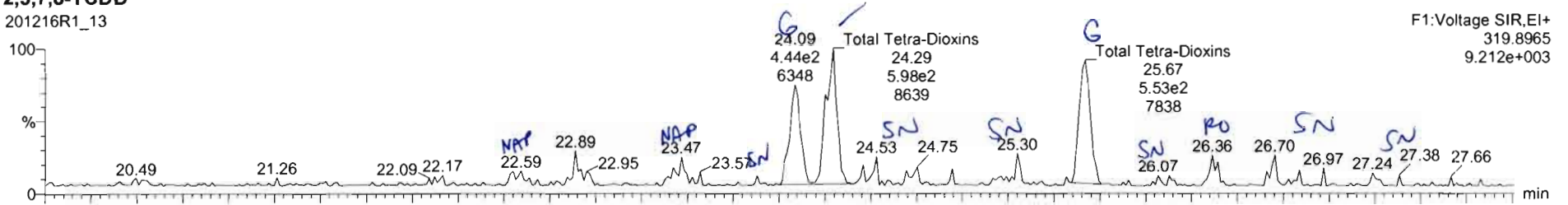
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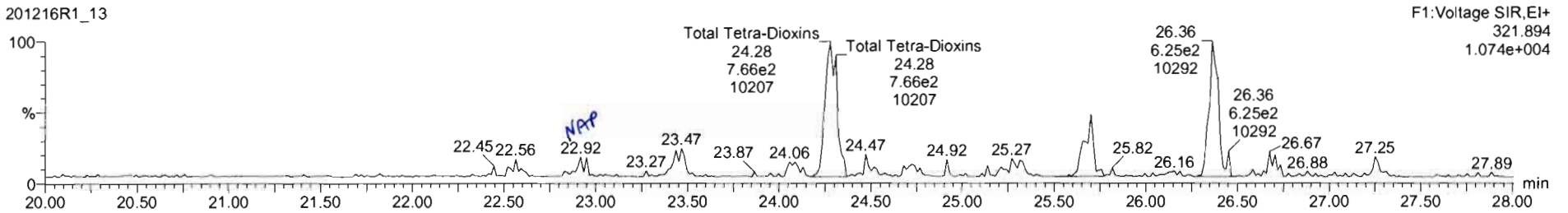
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2,3,7,8-TCDD

201216R1_13

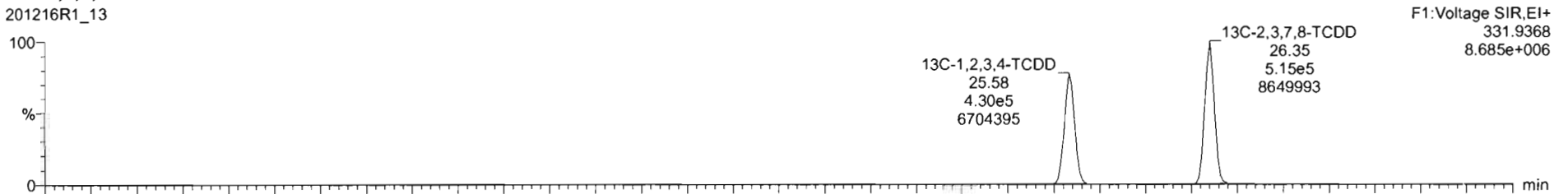


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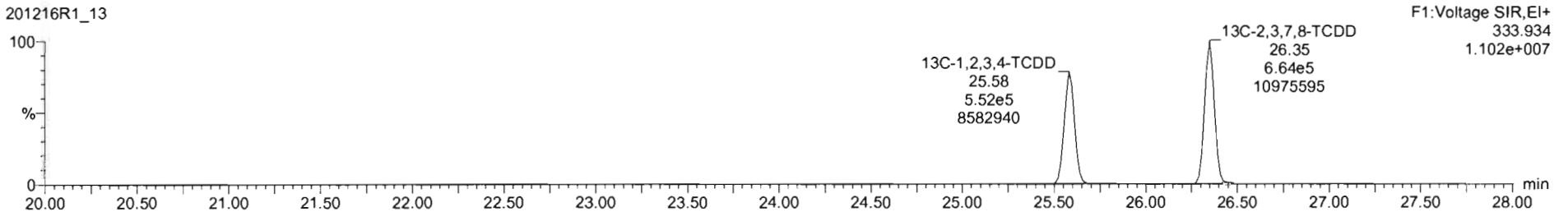


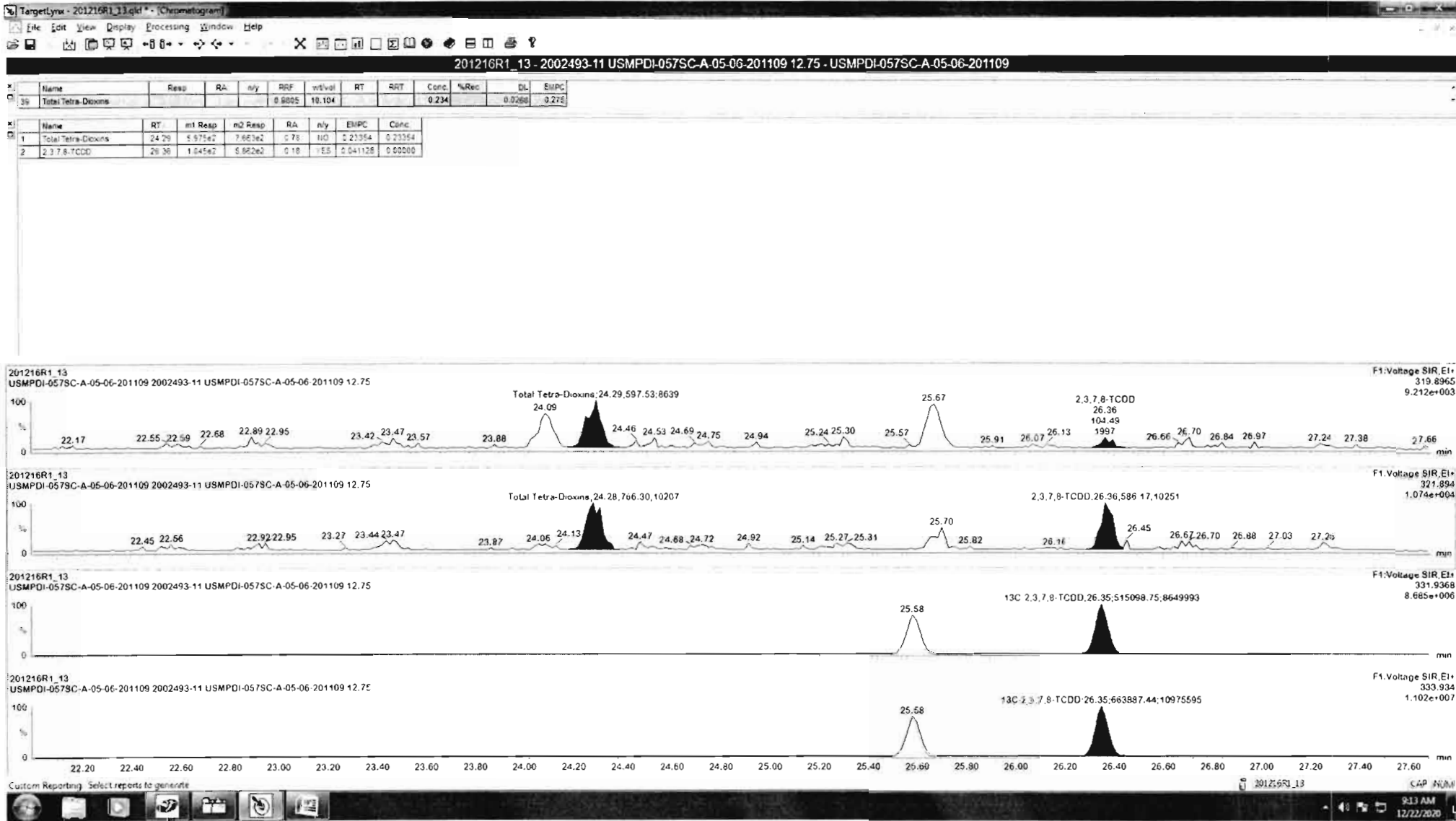
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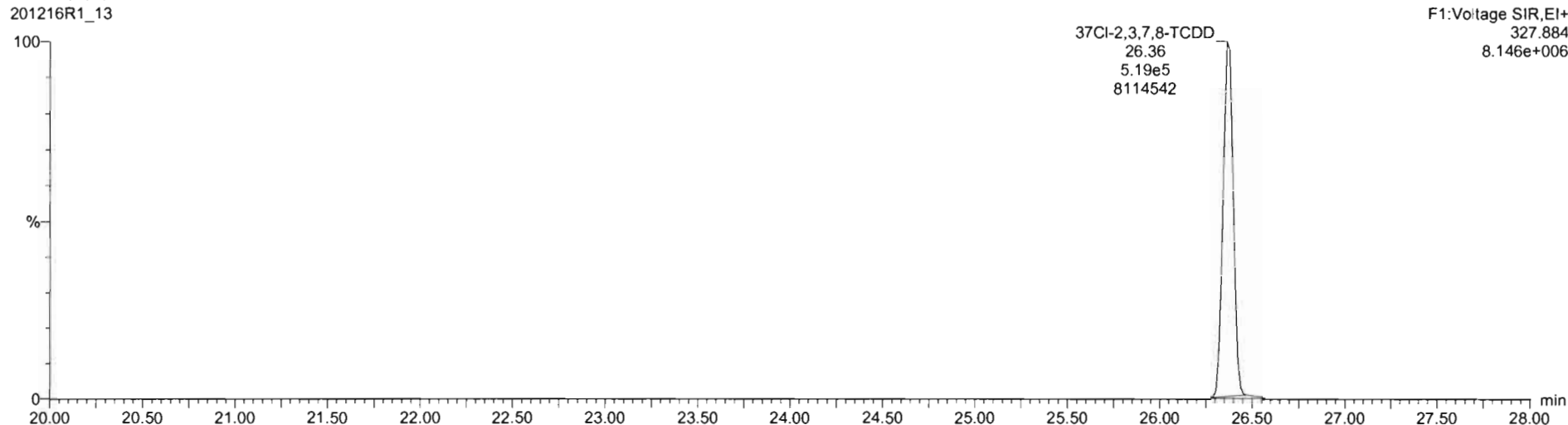
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Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109

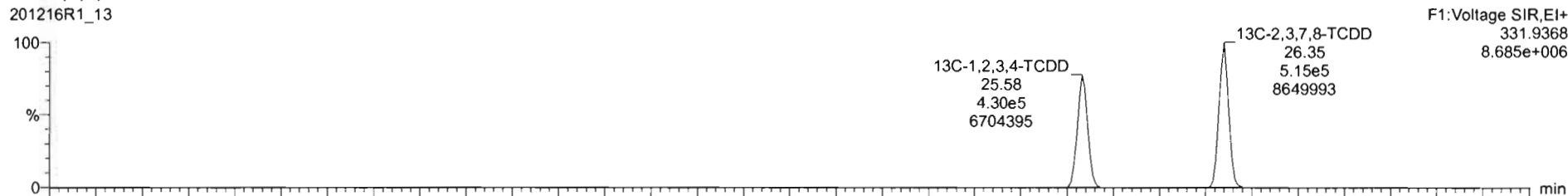
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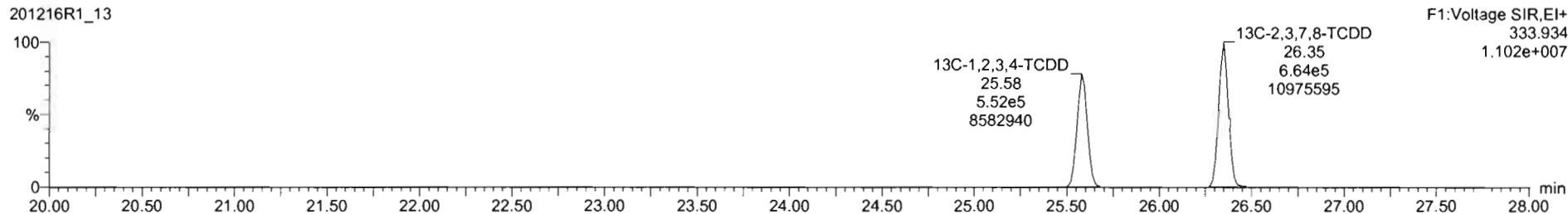


13C-1,2,3,4-TCDD

201216R1_13



201216R1_13



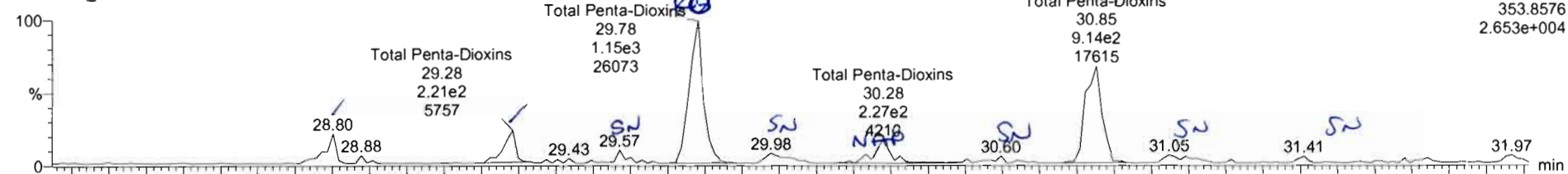
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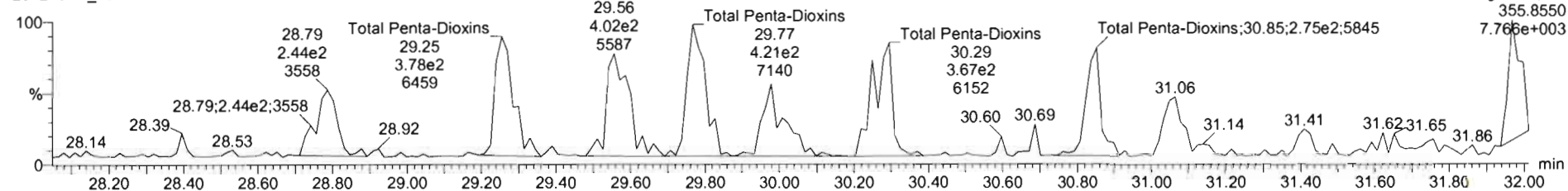
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1,2,3,7,8-PeCDD

201216R1_13

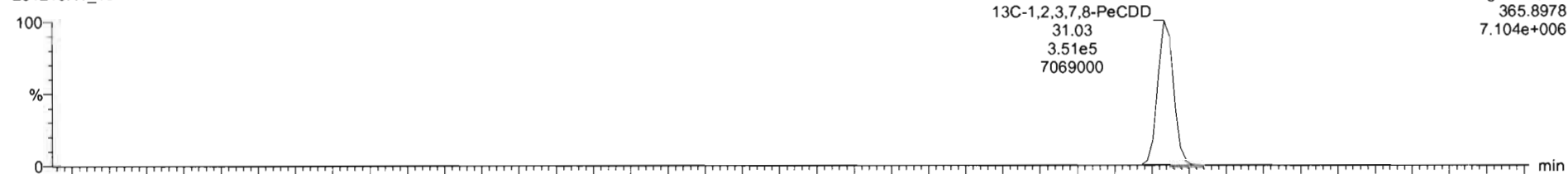


201216R1_13

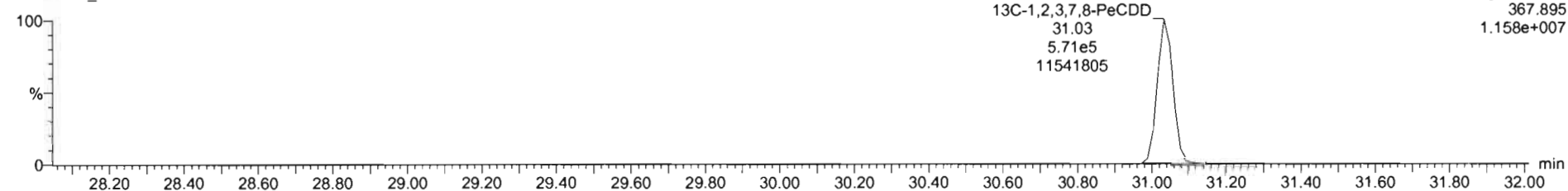


13C-1,2,3,7,8-PeCDD

201216R1_13

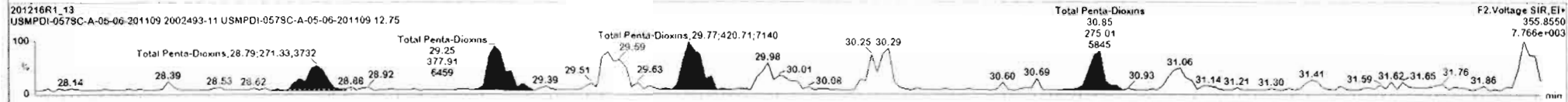
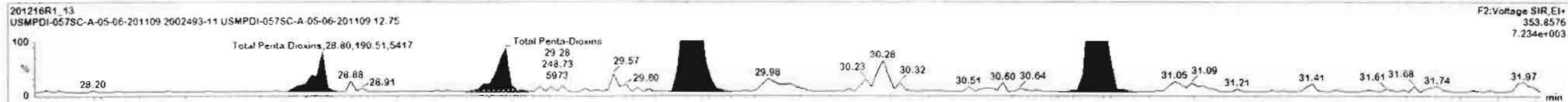


201216R1_13



Name	Resp	RA	nly	RRF	rt/mol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.6805	10.104			0.234		0.0298	0.275

Name	RT	int Resp	nQ Resp	RA	nly	EMPC	Conc	
1	Total Penta-Dioxins	26.80	1.505e2	2.771e2	0.74	NO	0.15646	0.00000
2	Total Penta-Dioxins	28.36	2.437e2	3.779e2	0.86	NO	0.14448	0.1444E
3	Total Penta-Dioxins	29.78	1.151e3	4.207e2	2.74	YES	0.15868	0.00000
4	Total Penta-Dioxins	30.85	8.141e2	2.750e2	3.32	YES	0.10334	0.00000



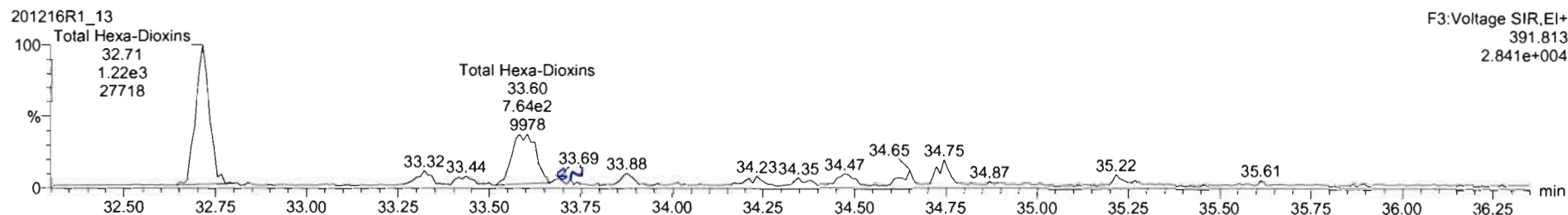
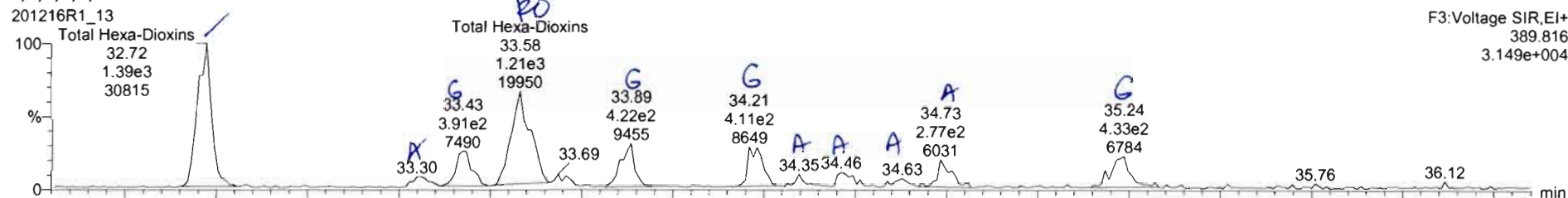
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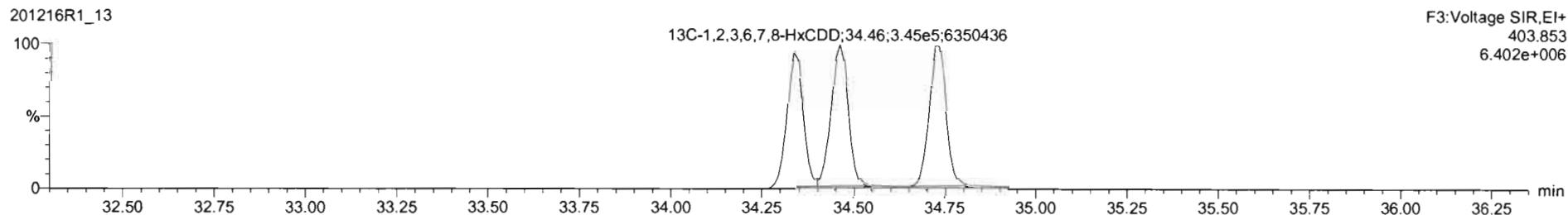
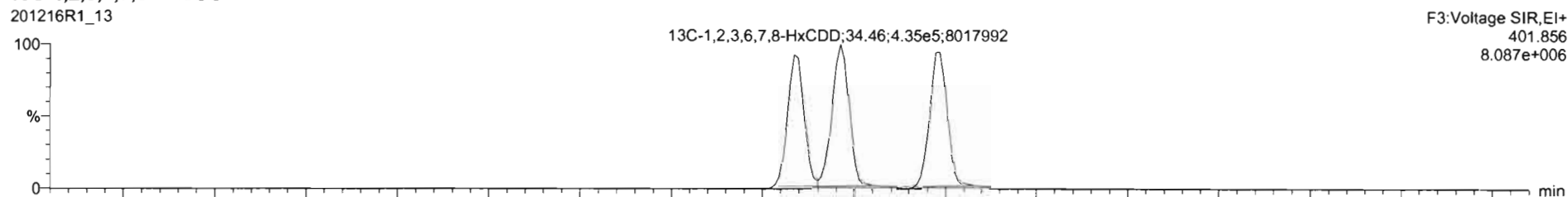
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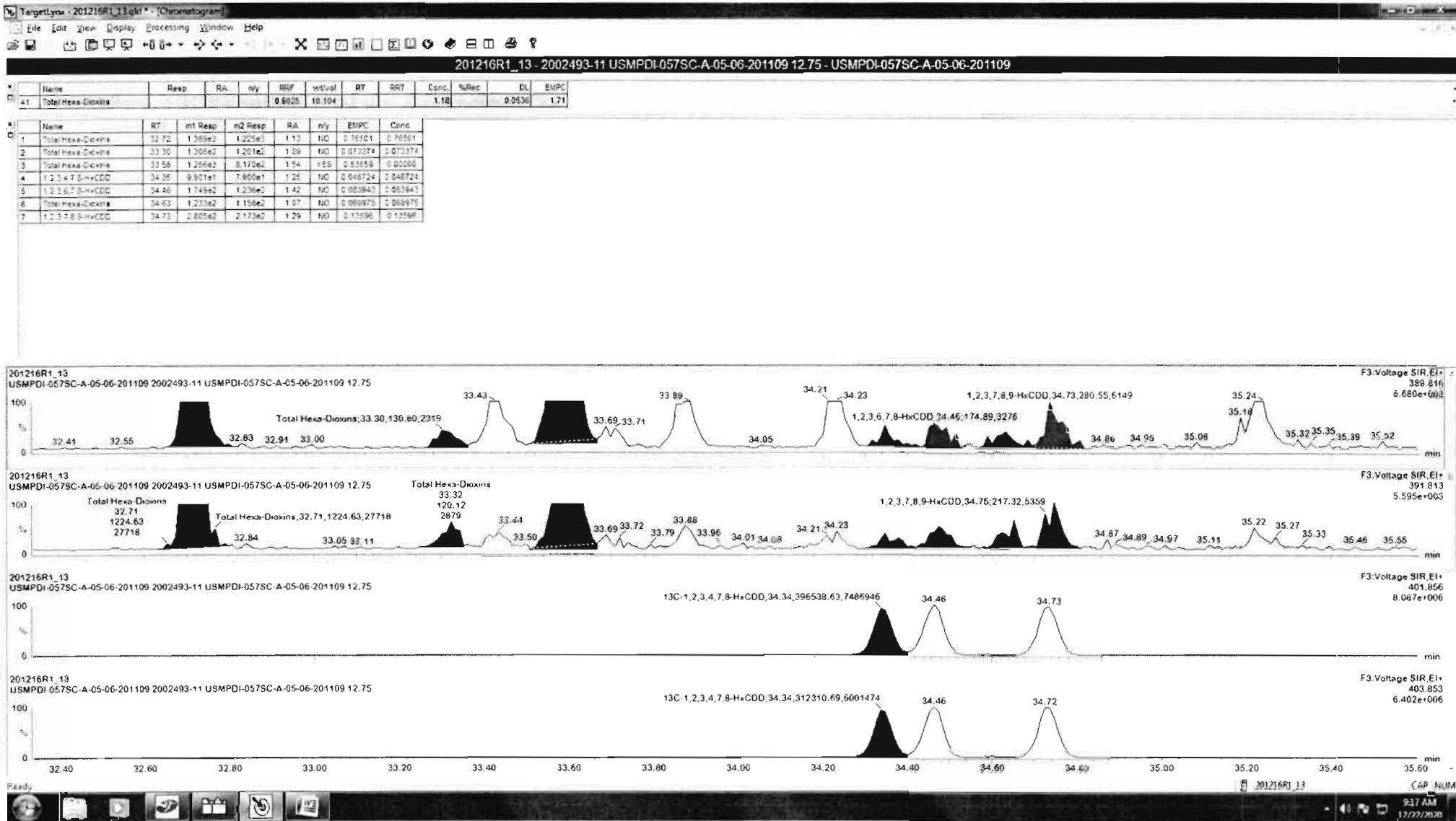
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1,2,3,4,7,8-HxCDD



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





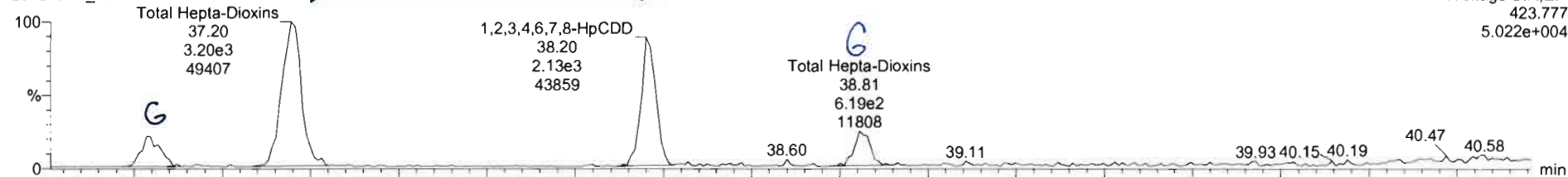
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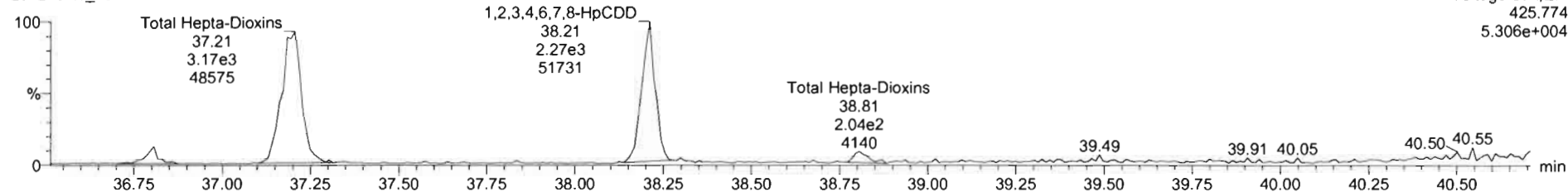
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1,2,3,4,6,7,8-HpCDD

201216R1_13

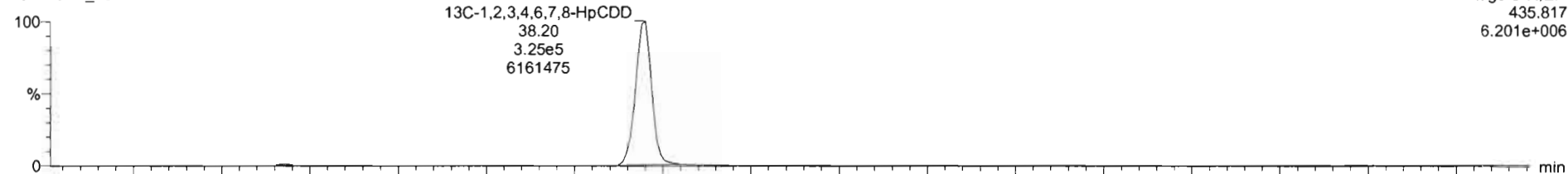


201216R1_13

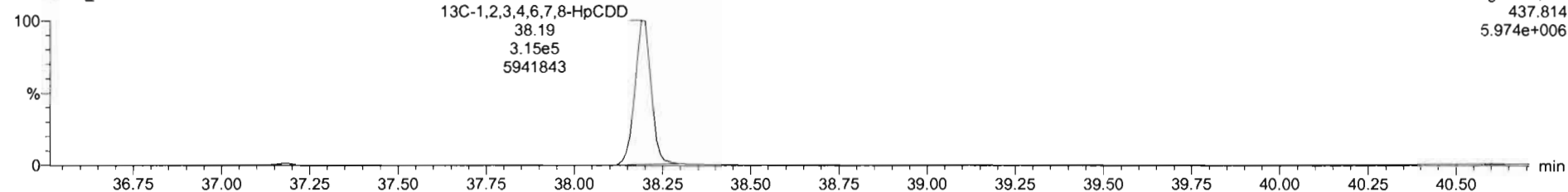


13C-1,2,3,4,6,7,8-HpCDD

201216R1_13



201216R1_13



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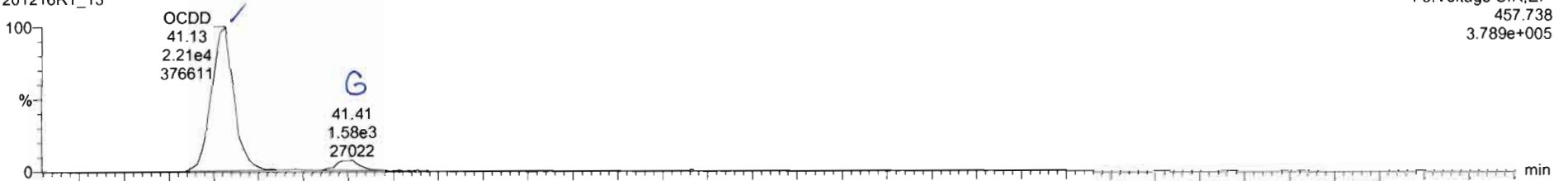
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OCDD

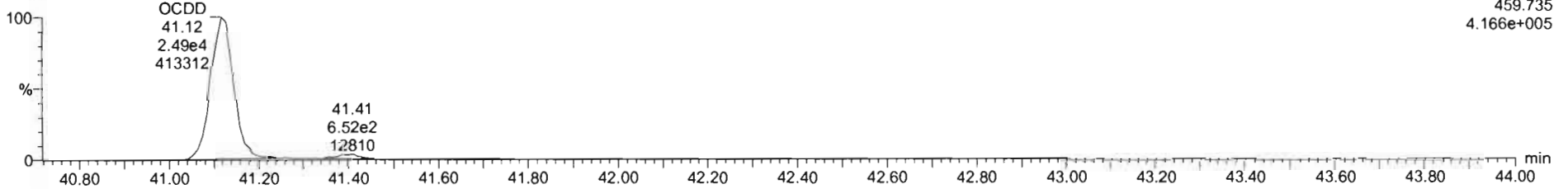
201216R1_13

F5:Voltage SIR,EI+
457.738
3.789e+005



201216R1_13

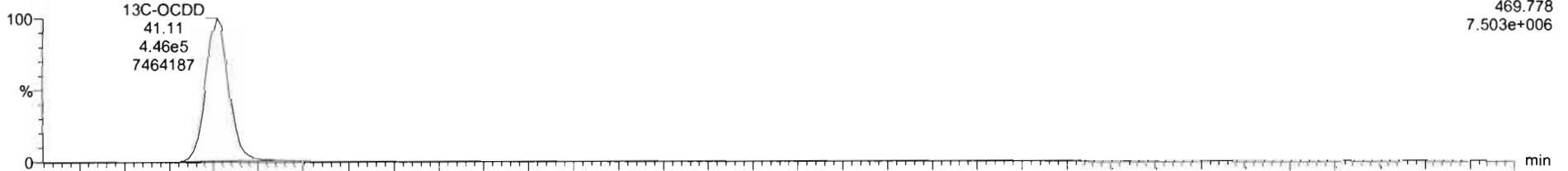
F5:Voltage SIR,EI+
459.735
4.166e+005



13C-OCDD

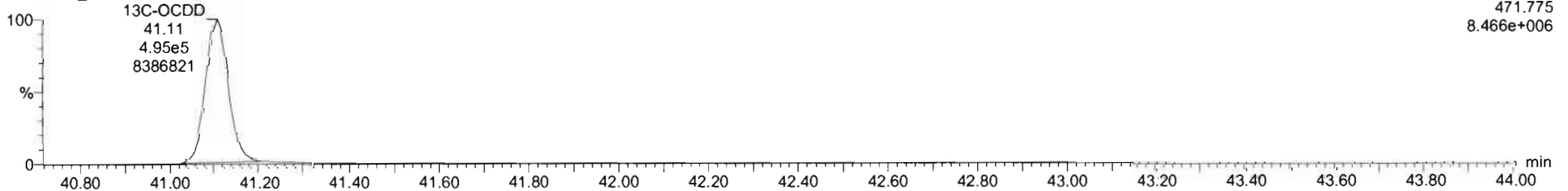
201216R1_13

F5:Voltage SIR,EI+
469.778
7.503e+006



201216R1_13

F5:Voltage SIR,EI+
471.775
8.466e+006



Dataset: Untitled

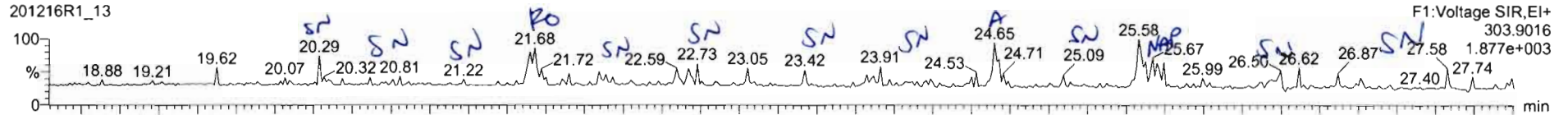
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

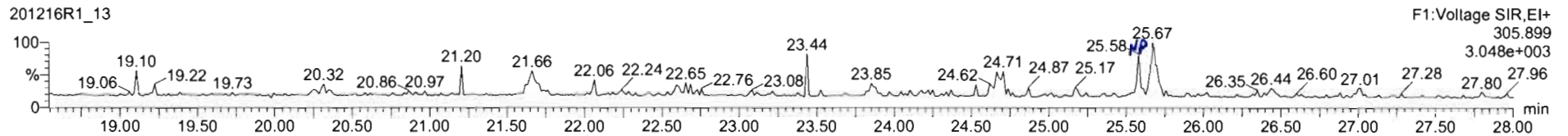
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2,3,7,8-TCDF

201216R1_13

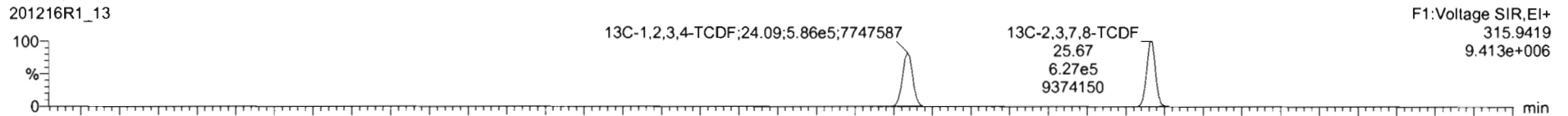


201216R1_13

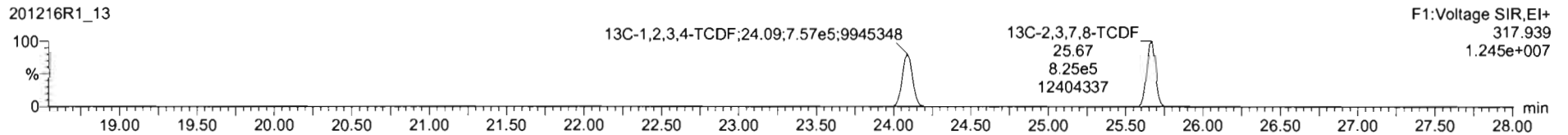


13C-2,3,7,8-TCDF

201216R1_13

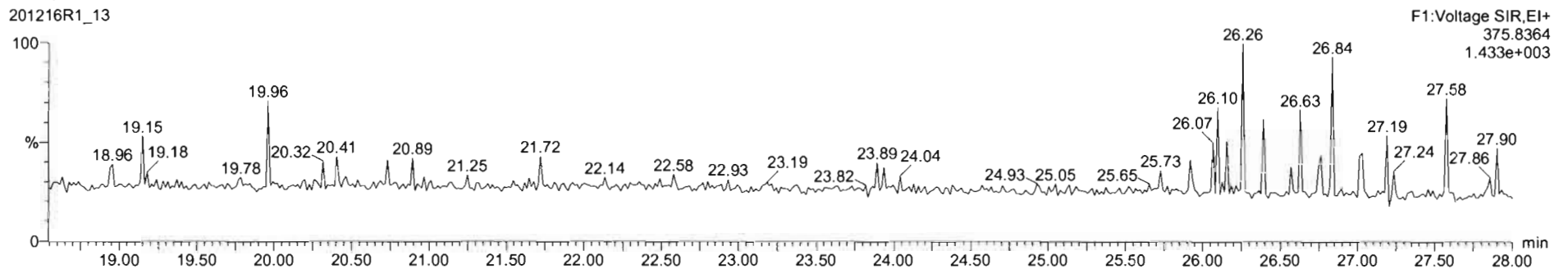


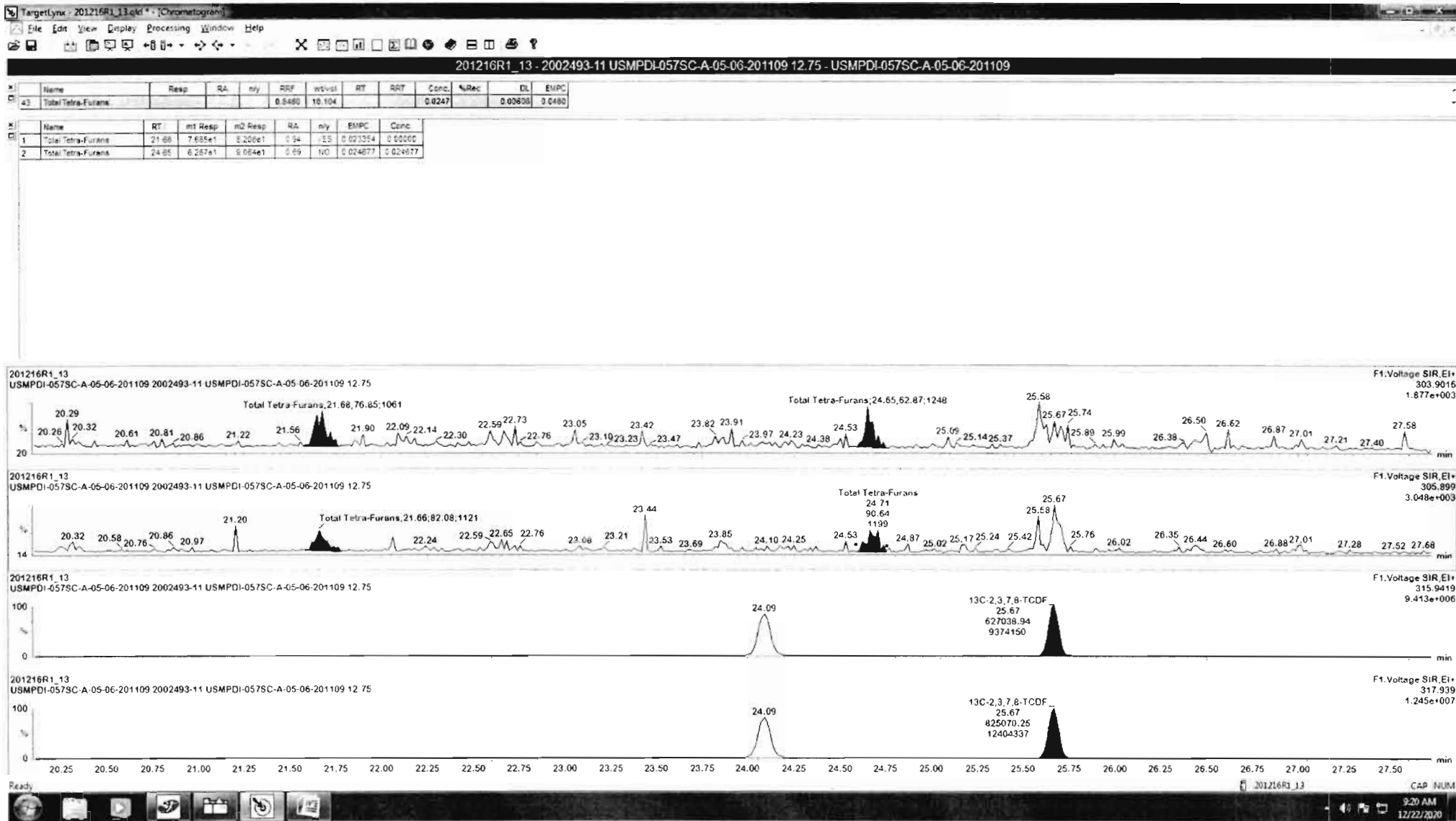
201216R1_13



DPE1

201216R1_13





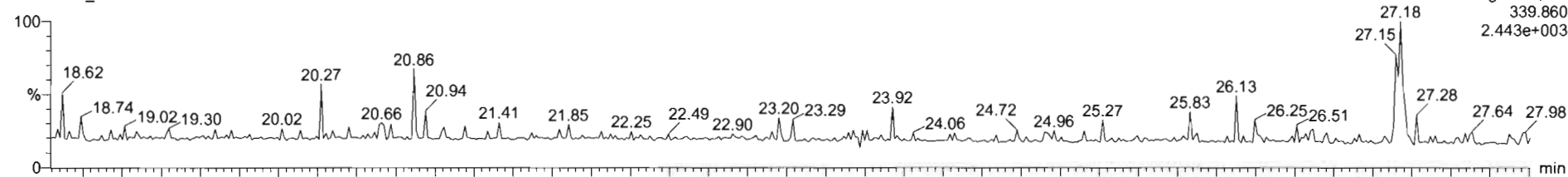
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

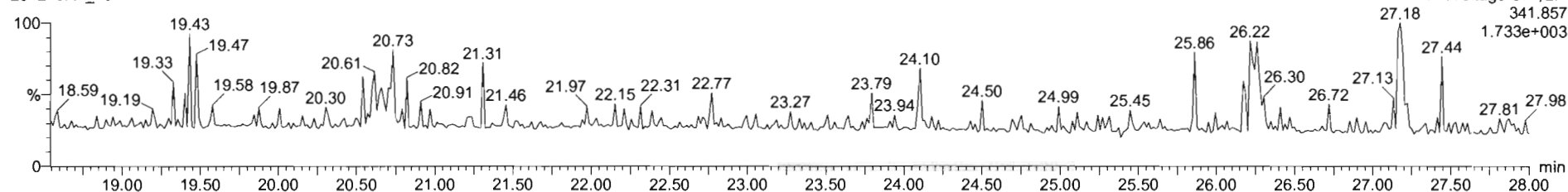
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1st Func. Penta-Furans

201216R1_13

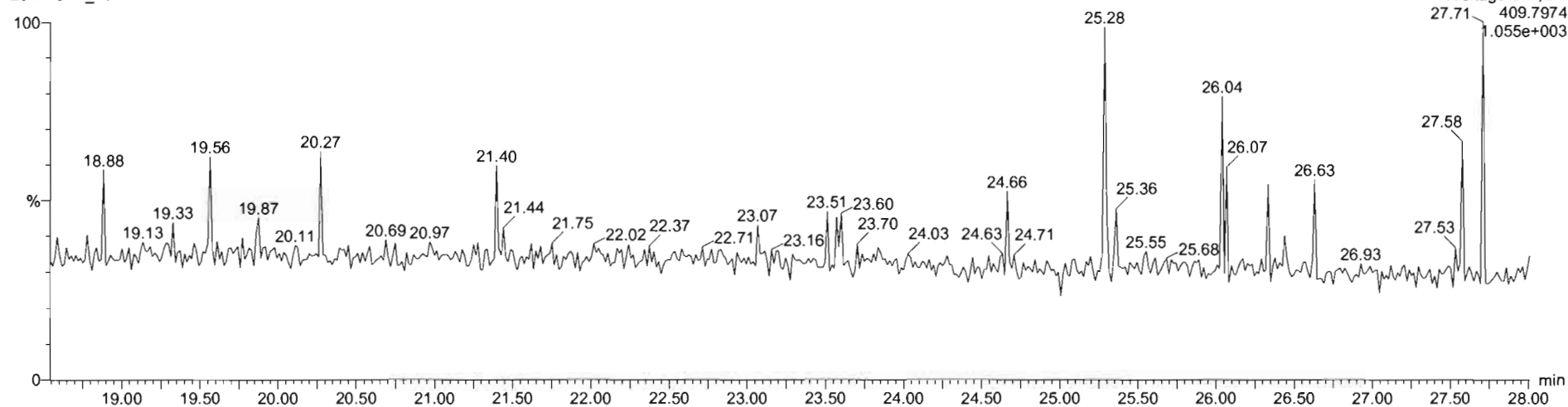


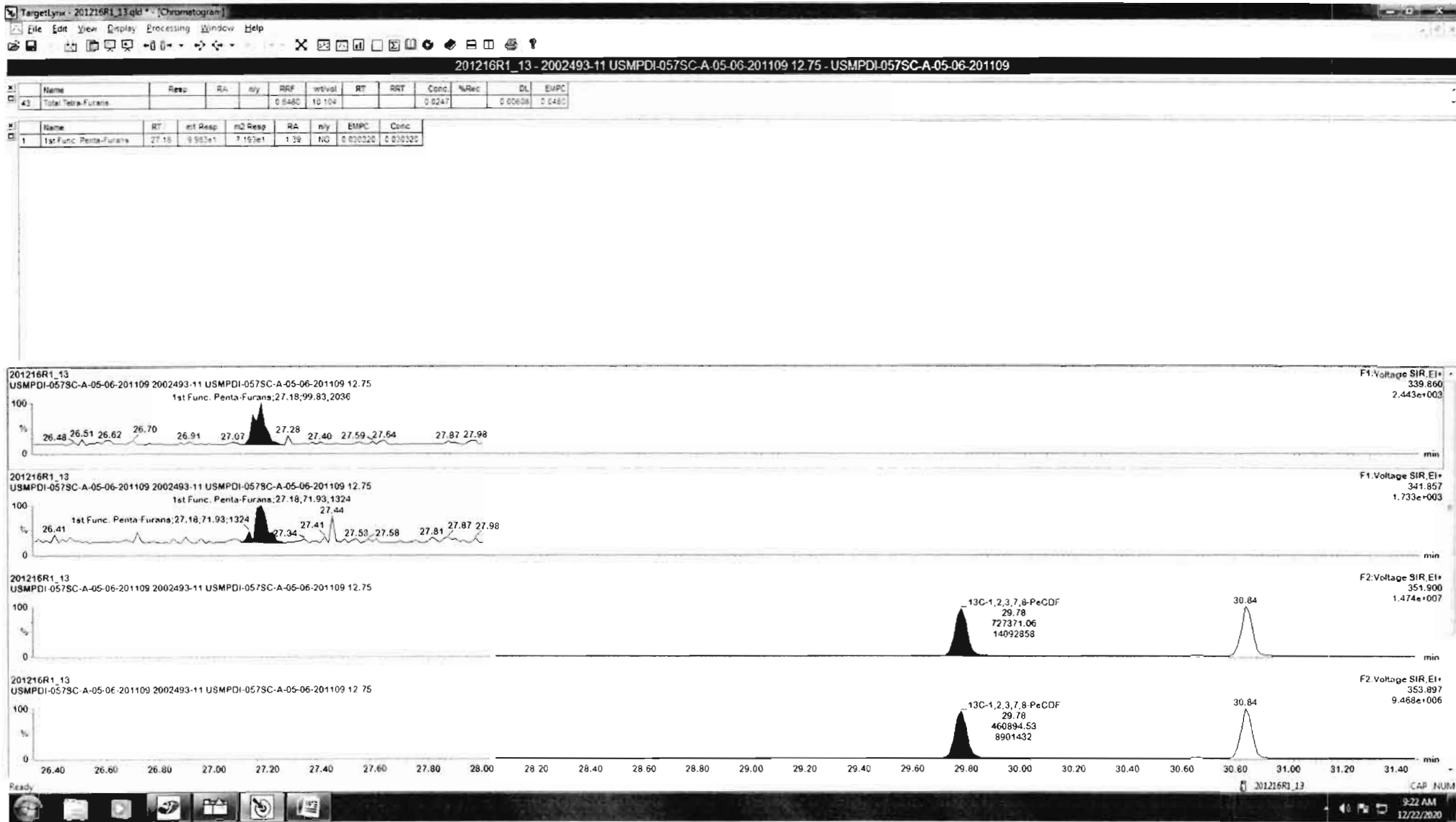
201216R1_13



DPE6

201216R1_13



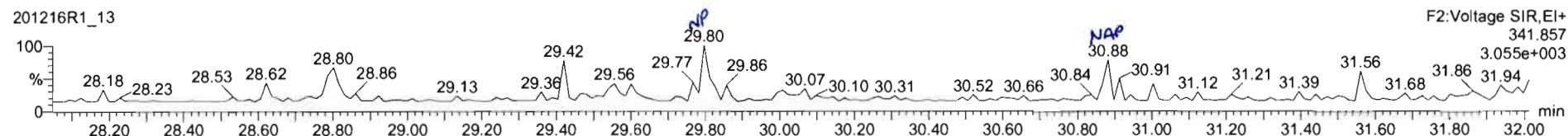
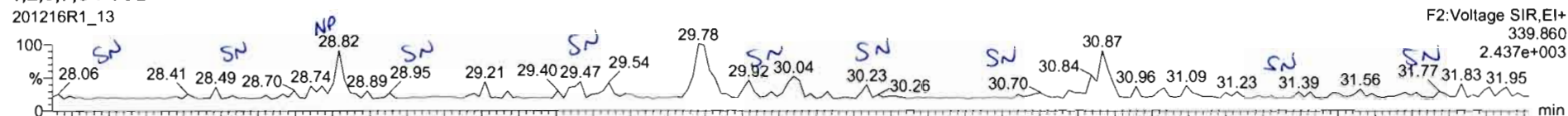


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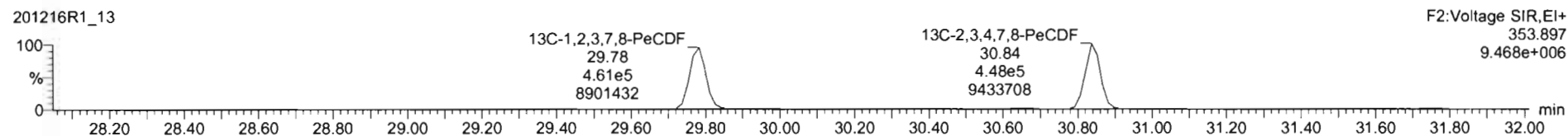
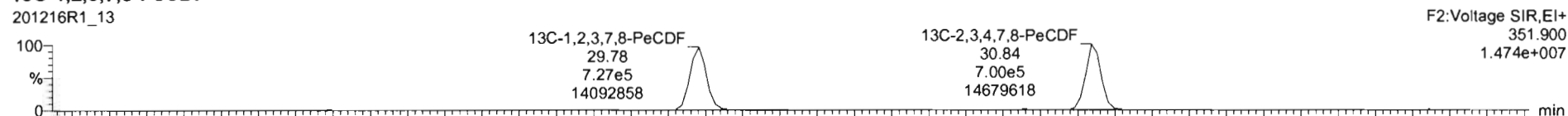
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109

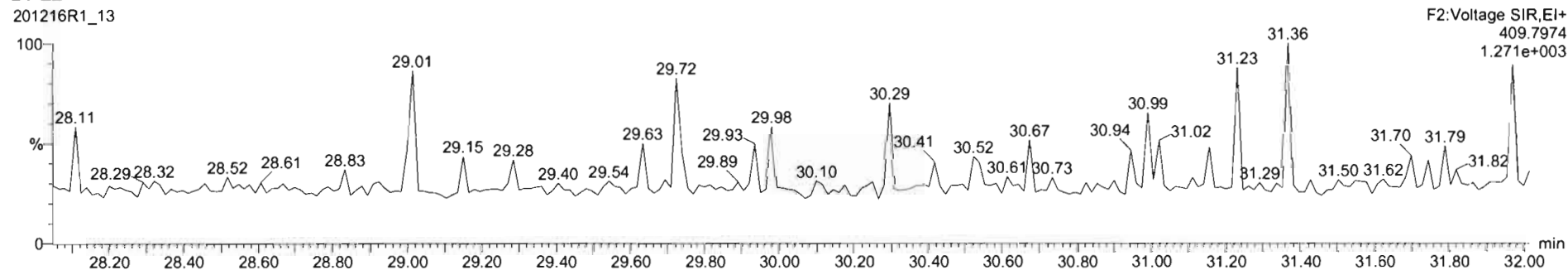
1,2,3,7,8-PeCDF



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



DPE2



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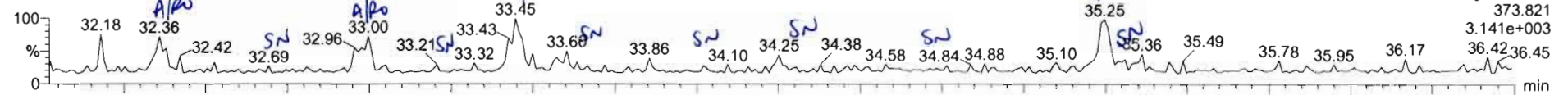
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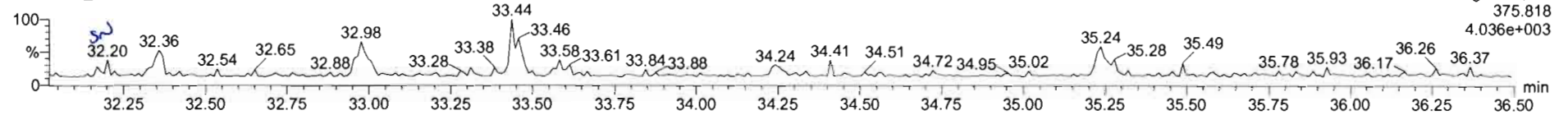
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1,2,3,4,7,8-HxCDF

201216R1_13

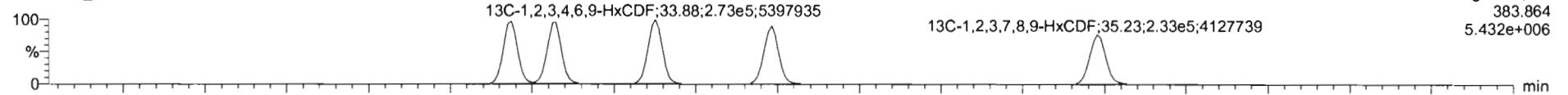


201216R1_13

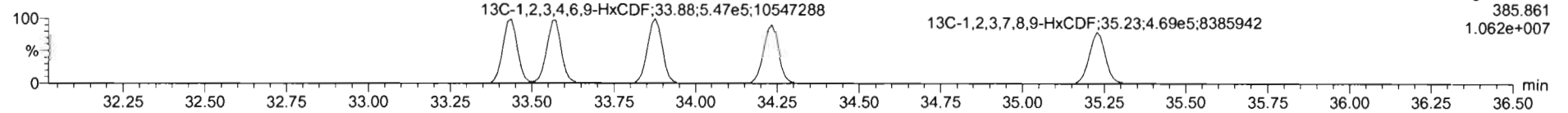


13C-1,2,3,4,7,8-HxCDF

201216R1_13

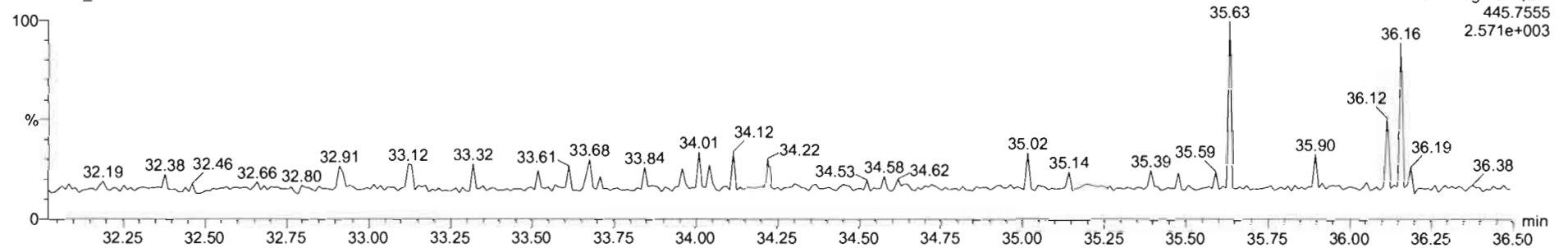


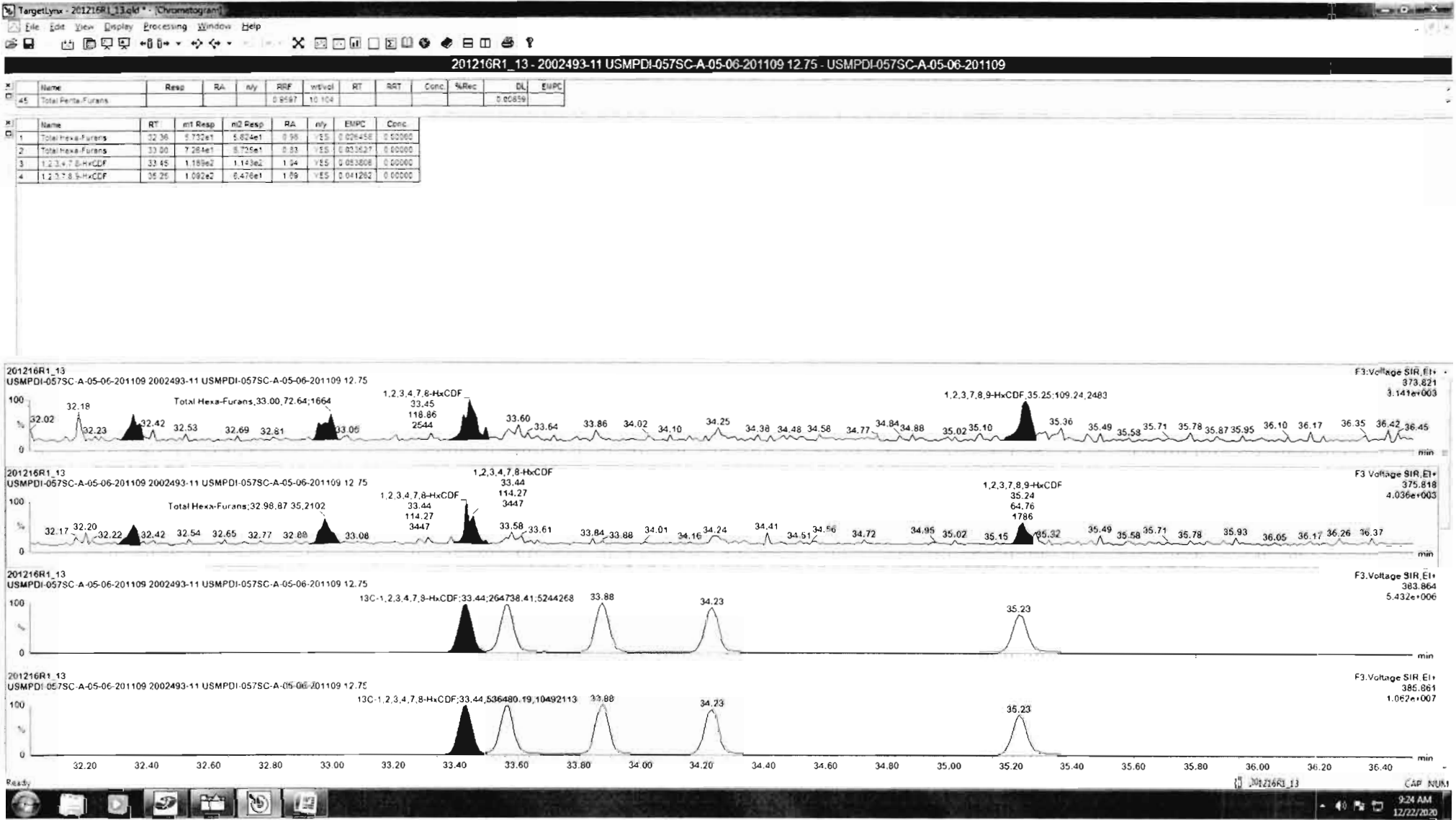
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DPE3

201216R1_13



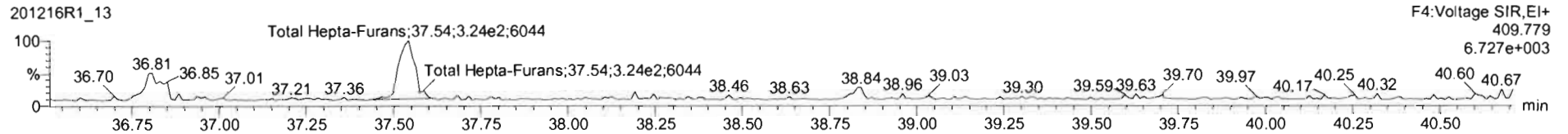
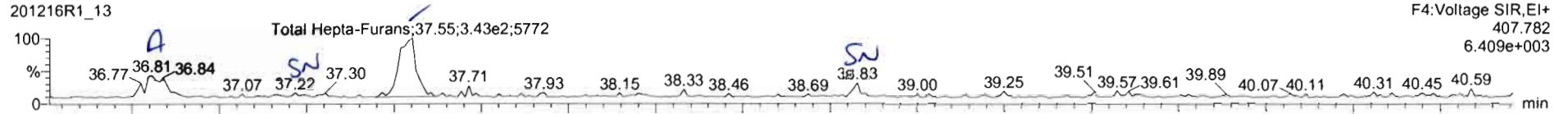


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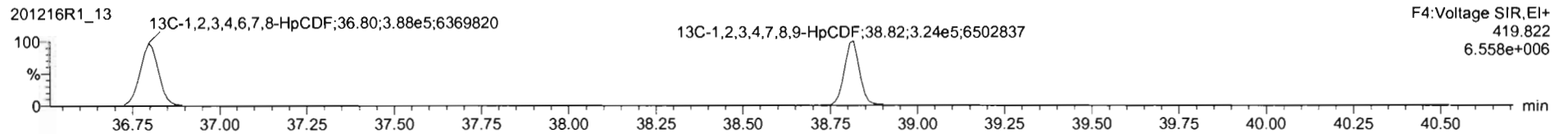
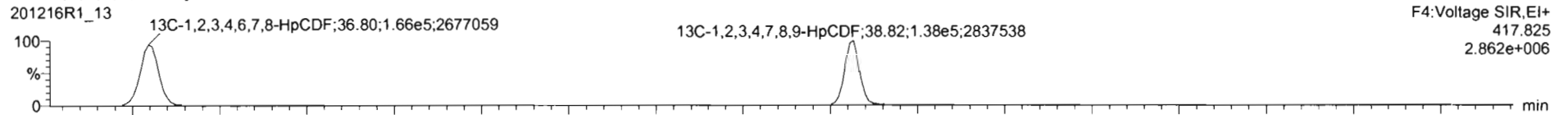
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109

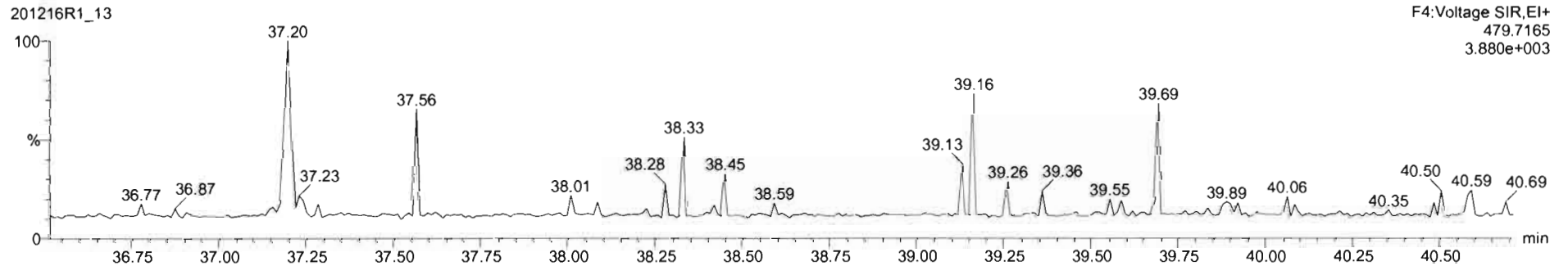
1,2,3,4,6,7,8-HpCDF

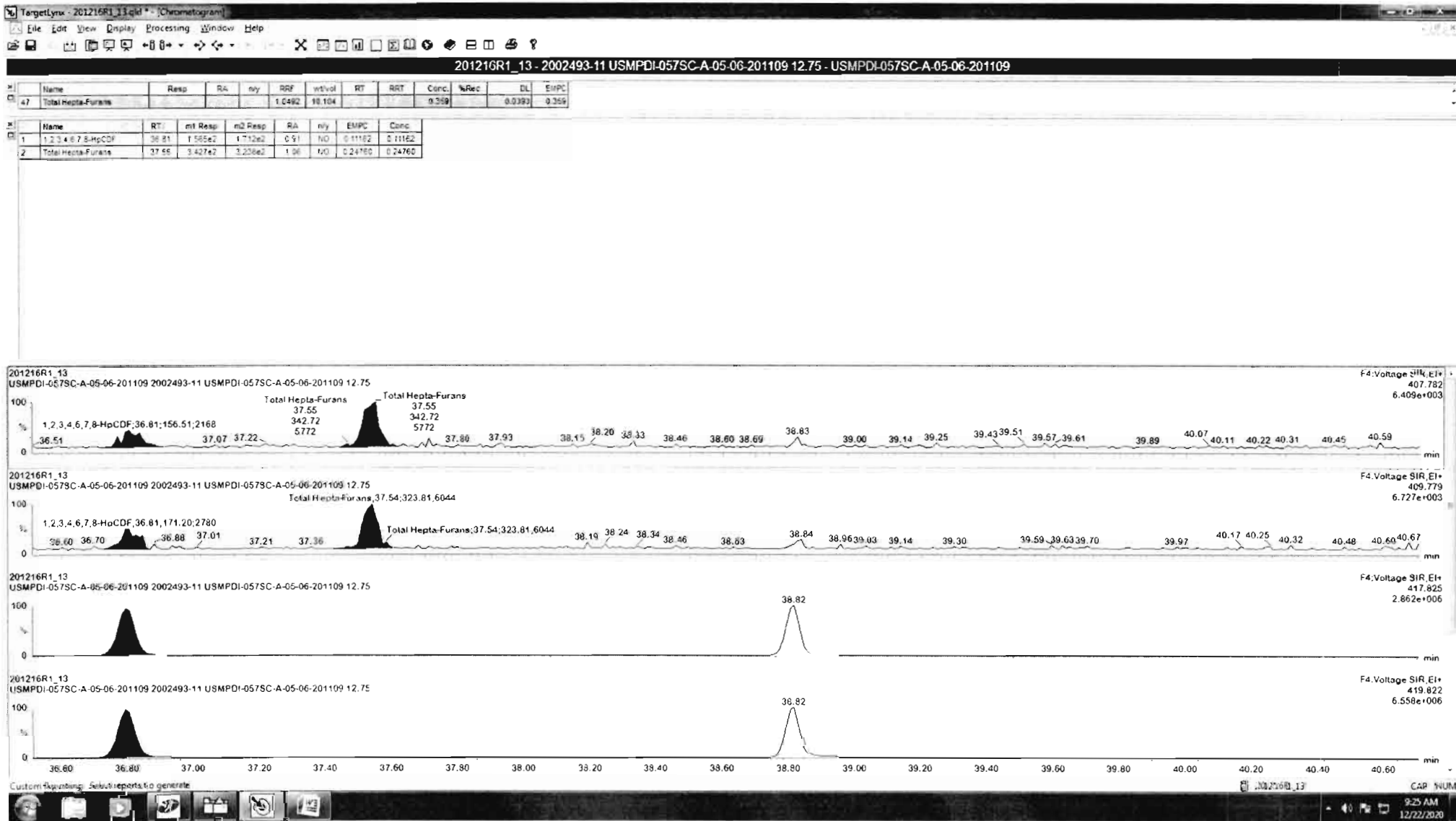


13C-1,2,3,4,6,7,8-HpCDF



DPE4



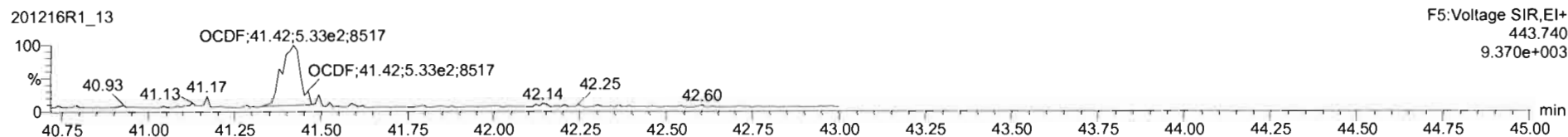
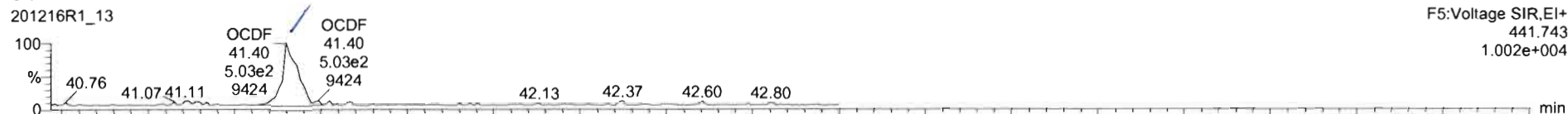


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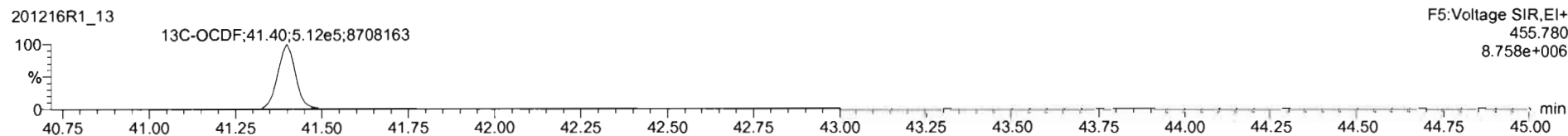
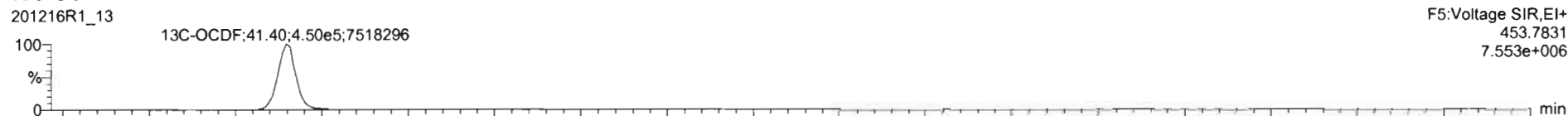
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Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109

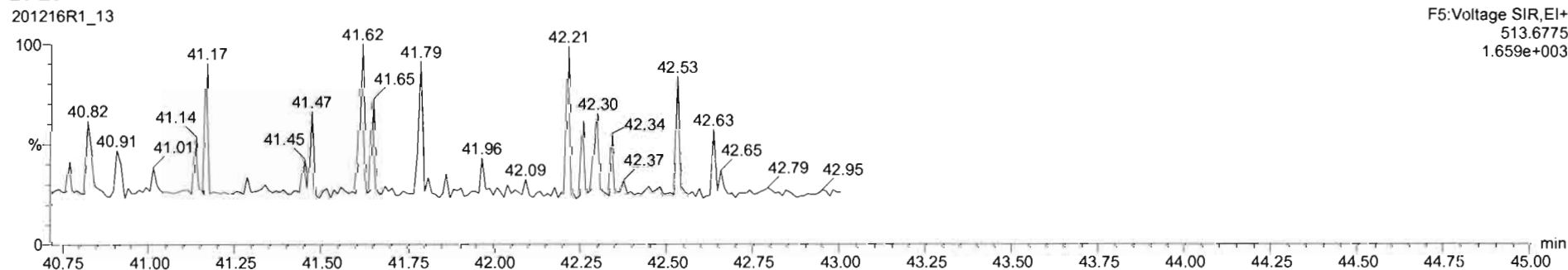
OCDF

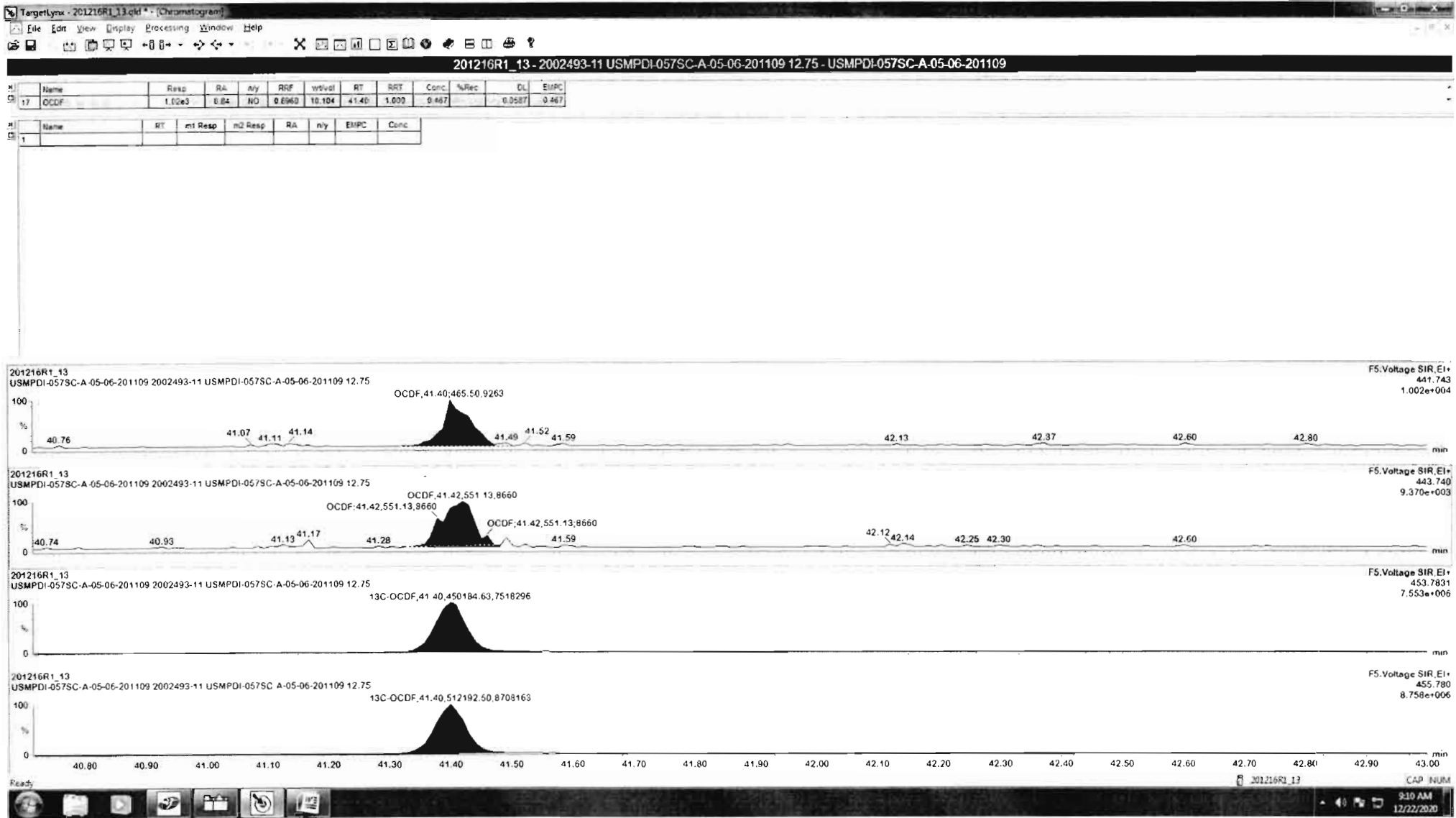


13C-OCDF



DPE5

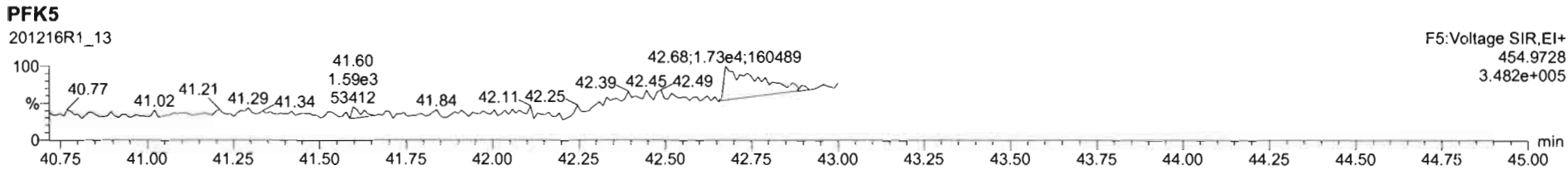
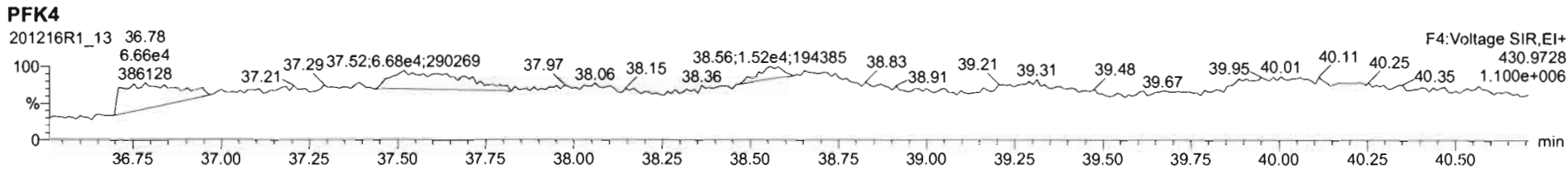
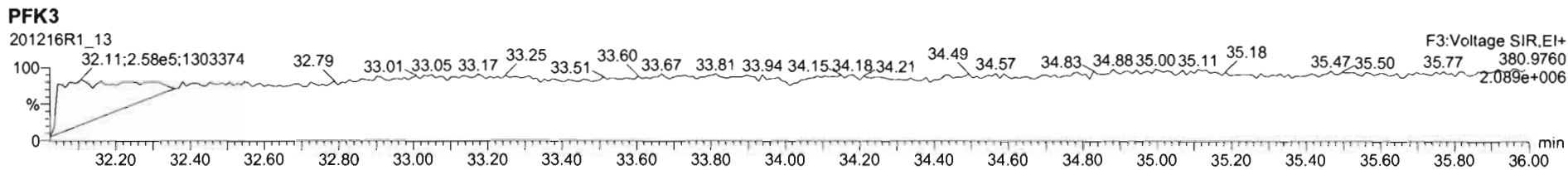
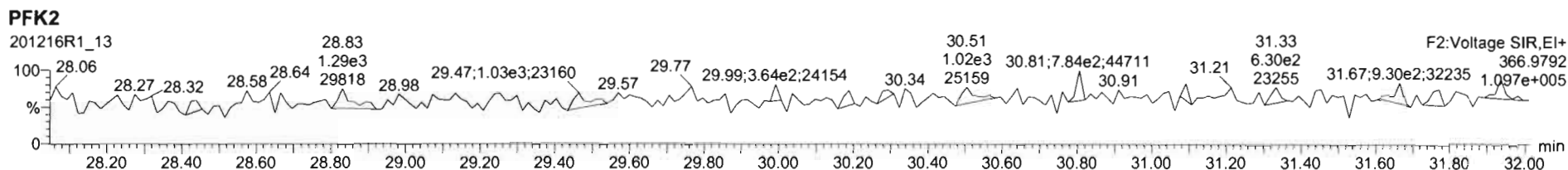
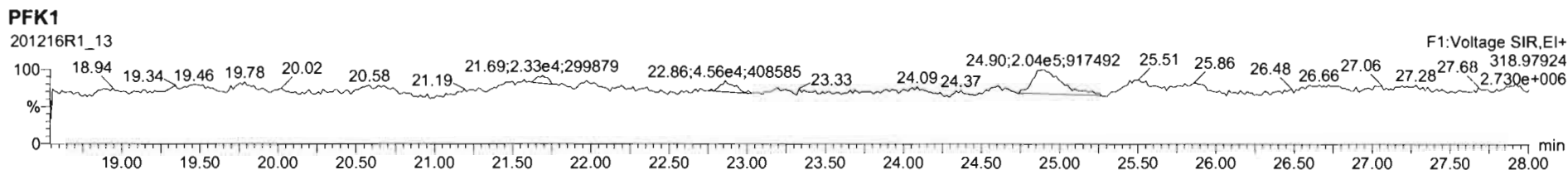




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Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_13, Date: 16-Dec-2020, Time: 17:31:33, ID: 2002493-11 USMPDI-057SC-A-05-06-201109 12.75, Description: USMPDI-057SC-A-05-06-201109



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_14.qld

Last Altered: Tuesday, December 22, 2020 9:41:23 AM Pacific Standard Time
Printed: Tuesday, December 22, 2020 9:41:49 AM Pacific Standard Time

GPB 12/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Mike 12/21/20

Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

#	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	8.69e2	0.15	YES	0.980	10.217	26.381	26.36	1.001	1.001	0.13512		0.0142	0.0396
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.217	31.079		1.001				0.0479	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.217	34.368		1.001				0.0321	
4	4 1,2,3,6,7,8-HxCDD	1.98e2	1.24	NO	0.902	10.217	34.483	34.50	1.001	1.001	0.050852		0.0341	0.0509
5	5 1,2,3,7,8,9-HxCDD	4.23e2	1.26	NO	0.954	10.217	34.745	34.74	1.000	1.000	0.10521		0.0327	0.105
6	6 1,2,3,4,6,7,8-HpCDD	2.81e3	0.92	NO	0.918	10.217	38.211	38.20	1.000	1.000	0.89079		0.0652	0.891
7	7 OCDD	2.15e4	0.90	NO	0.866	10.217	41.124	41.13	1.000	1.000	10.026		0.198	10.0
8	8 2,3,7,8-TCDF			NO	0.848	10.217	25.672		1.000				0.0109	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.217	29.785		1.000				0.0185	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.217	30.874		1.001				0.0194	
11	11 1,2,3,4,7,8-HxCDF	1.97e2	1.39	NO	0.986	10.217	33.447	33.45	1.000	1.000	0.046141		0.00998	0.0461
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.217	33.592		1.001				0.0226	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.217	34.253		1.001				0.0242	
14	14 1,2,3,7,8,9-HxCDF	1.18e2	1.39	NO	0.991	10.217	35.248	35.25	1.000	1.000	0.030664		0.0126	0.0307
15	15 1,2,3,4,6,7,8-HpCDF	2.50e2	0.85	YES	1.05	10.217	36.824	36.81	1.000	1.000	0.080476		0.0203	0.0725
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.217	38.828		1.000				0.0336	
17	17 OCDF	3.34e2	0.86	NO	0.896	10.217	41.417	41.42	1.000	1.000	0.14698		0.0594	0.147
18	18 13C-2,3,7,8-TCDD	1.28e6	0.78	NO	1.06	10.217	26.353	26.35	1.030	1.030	230.98	118	0.108	
19	19 13C-1,2,3,7,8-PeCDD	1.02e6	0.63	NO	0.785	10.217	31.192	31.05	1.219	1.214	247.27	126	0.161	
20	20 13C-1,2,3,4,7,8-HxCDD	7.57e5	1.27	NO	0.621	10.217	34.337	34.35	1.014	1.014	273.68	140	0.345	
21	21 13C-1,2,3,6,7,8-HxCDD	8.43e5	1.27	NO	0.734	10.217	34.459	34.46	1.017	1.017	257.77	132	0.291	
22	22 13C-1,2,3,7,8,9-HxCDD	8.24e5	1.23	NO	0.723	10.217	34.743	34.74	1.026	1.025	256.04	131	0.296	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.72e5	1.05	NO	0.568	10.217	38.243	38.20	1.129	1.128	265.62	136	0.698	
24	24 13C-OCDD	9.69e5	0.89	NO	0.496	10.217	41.180	41.12	1.216	1.214	438.46	112	0.502	
25	25 13C-2,3,7,8-TCDF	1.54e6	0.76	NO	0.919	10.217	25.652	25.67	1.003	1.003	234.37	120	0.145	
26	26 13C-1,2,3,7,8-PeCDF	1.30e6	1.57	NO	0.715	10.217	29.903	29.78	1.169	1.164	254.57	130	0.285	
27	27 13C-2,3,4,7,8-PeCDF	1.24e6	1.58	NO	0.689	10.217	30.990	30.85	1.212	1.206	252.41	129	0.296	
28	28 13C-1,2,3,4,7,8-HxCDF	8.46e5	0.50	NO	0.873	10.217	33.442	33.44	0.987	0.987	217.50	111	0.385	
29	29 13C-1,2,3,6,7,8-HxCDF	8.46e5	0.51	NO	0.933	10.217	33.571	33.57	0.991	0.991	203.48	104	0.360	
30	30 13C-2,3,4,6,7,8-HxCDF	8.20e5	0.50	NO	0.843	10.217	34.238	34.23	1.011	1.011	218.24	111	0.399	
31	31 13C-1,2,3,7,8,9-HxCDF	7.60e5	0.50	NO	0.780	10.217	35.238	35.24	1.040	1.040	218.69	112	0.431	

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_14.qld

Last Altered: Tuesday, December 22, 2020 9:41:23 AM Pacific Standard Time
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Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

#	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	5.79e5	0.43	NO	0.726	10.217	36.813	36.81	1.087	1.086	178.92	91.4	0.498	
33	13C-1,2,3,4,7,8,9-HpCDF	4.94e5	0.43	NO	0.491	10.217	38.822	38.82	1.146	1.146	225.90	115	0.736	
34	13C-OCDF	9.94e5	0.87	NO	0.565	10.217	41.396	41.41	1.222	1.222	394.41	101	0.401	
35	37Cl-2,3,7,8-TCDD	5.54e5			1.22	10.217	26.347	26.38	1.030	1.031	86.562	111	0.0490	
36	13C-1,2,3,4-TCDD	1.03e6	0.78	NO	1.00	10.217	25.640	25.58	1.000	1.000	195.75	100	0.114	
37	13C-1,2,3,4-TCDF	1.40e6	0.78	NO	1.00	10.217	24.130	24.09	1.000	1.000	195.75	100	0.133	
38	13C-1,2,3,4,6,9-HxCDF	8.72e5	0.50	NO	1.00	10.217	33.920	33.88	1.000	1.000	195.75	100	0.336	
39	Total Tetra-Dioxins				0.980	10.217	24.620		0.000		0.12541		0.0142	0.165
40	Total Penta-Dioxins				0.932	10.217	29.960		0.000		0.00000		0.0228	0.206
41	Total Hexa-Dioxins				0.902	10.217	33.635		0.000		0.82073		0.0350	1.23
42	Total Hepta-Dioxins				0.918	10.217	37.640		0.000		2.3803		0.0652	2.38
43	Total Tetra-Furans				0.848	10.217	23.610		0.000				0.00491	
44	1st Func. Penta-Furans				0.960	10.217	26.930		0.000				0.00303	
45	Total Penta-Furans				0.960	10.217	29.275		0.000				0.0121	
46	Total Hexa-Furans				1.02	10.217	33.555		0.000		0.097118		0.0106	0.0971
47	Total Hepta-Furans				1.05	10.217	37.835		0.000		0.00000		0.0195	0.143

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_14.qld

Last Altered: Tuesday, December 22, 2020 9:41:23 AM Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	24.29	4.852e3	6.439e3	3.472e2	4.589e2	0.76	NO	8.061e2	0.12541	0.12541	0.0142
2	2,3,7,8-TCDD	26.36	2.507e3	1.227e4	1.106e2	7.579e2	0.15	YES	8.685e2	0.00000	0.039569	0.0142

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.78	1.551e4	5.409e3	8.725e2	3.037e2	2.87	YES	0.000e0	0.00000	0.10182	0.0479
2	Total Penta-Dioxins	30.84	2.382e4	6.058e3	1.189e3	3.094e2	3.84	YES	0.000e0	0.00000	0.10373	0.0479

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.72	2.680e4	2.406e4	1.218e3	1.064e3	1.14	NO	2.282e3	0.61245	0.61245	0.0350
2	Total Hexa-Dioxins	33.32	3.082e3	2.239e3	1.121e2	8.244e1	1.36	NO	1.945e2	0.052215	0.052215	0.0350
3	Total Hexa-Dioxins	33.59	1.674e4	8.792e3	1.182e3	6.870e2	1.72	YES	0.000e0	0.00000	0.41310	0.0350
4	1,2,3,6,7,8-HxCDD	34.50	2.159e3	1.900e3	1.095e2	8.816e1	1.24	NO	1.976e2	0.050852	0.050852	0.0341
5	1,2,3,7,8,9-HxCDD	34.74	4.495e3	4.033e3	2.356e2	1.872e2	1.26	NO	4.228e2	0.10521	0.10521	0.0327

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.21	4.067e4	3.473e4	2.307e3	2.386e3	0.97	NO	4.694e3	1.4896	1.4896	0.0652
2	1,2,3,4,6,7,8-HpCDD	38.20	2.576e4	3.094e4	1.341e3	1.466e3	0.92	NO	2.807e3	0.89079	0.89079	0.0652

Tetra-Furans

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

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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_14.qld

Last Altered: Tuesday, December 22, 2020 9:41:23 AM Pacific Standard Time

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Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

Penta-Furans function 1

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

Penta-Furans

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

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	33.45	2.683e3	2.096e3	1.144e2	8.228e1	1.39	NO	1.967e2	0.046141	0.046141	0.00998
2	35.25	1.964e3	1.324e3	6.853e1	4.943e1	1.39	NO	1.180e2	0.030664	0.030664	0.0126
3	35.26	1.791e3	1.406e3	4.570e1	4.091e1	1.12	NO	8.661e1	0.020313	0.020313	0.0106

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	36.81	2.425e3	2.386e3	1.147e2	1.351e2	0.85	YES	2.498e2	0.00000	0.072480	0.0203
2	37.54	1.752e3	3.125e3	1.038e2	1.448e2	0.72	YES	0.000e0	0.00000	0.070787	0.0195

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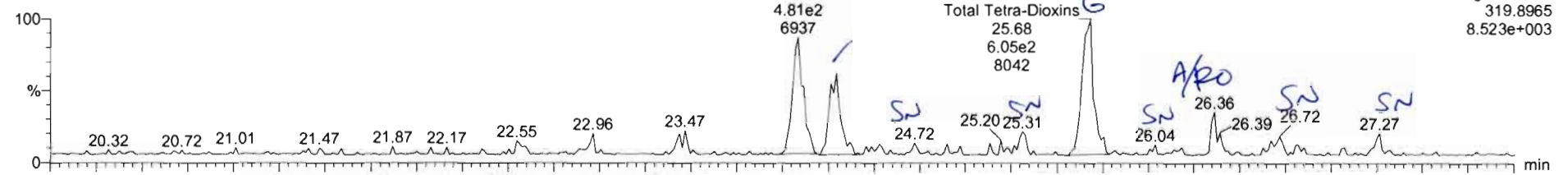
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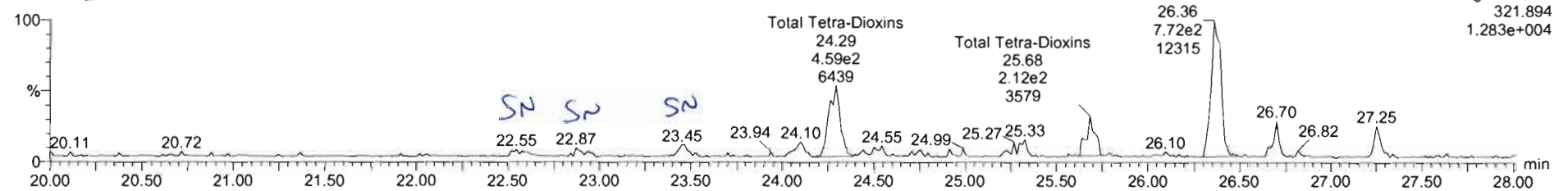
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2,3,7,8-TCDD

201216R1_14

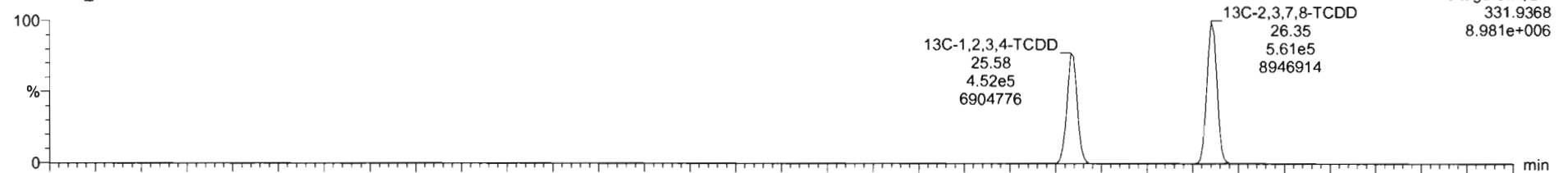


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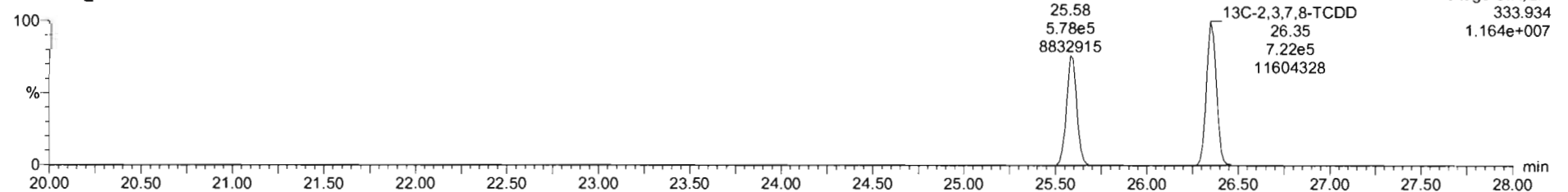


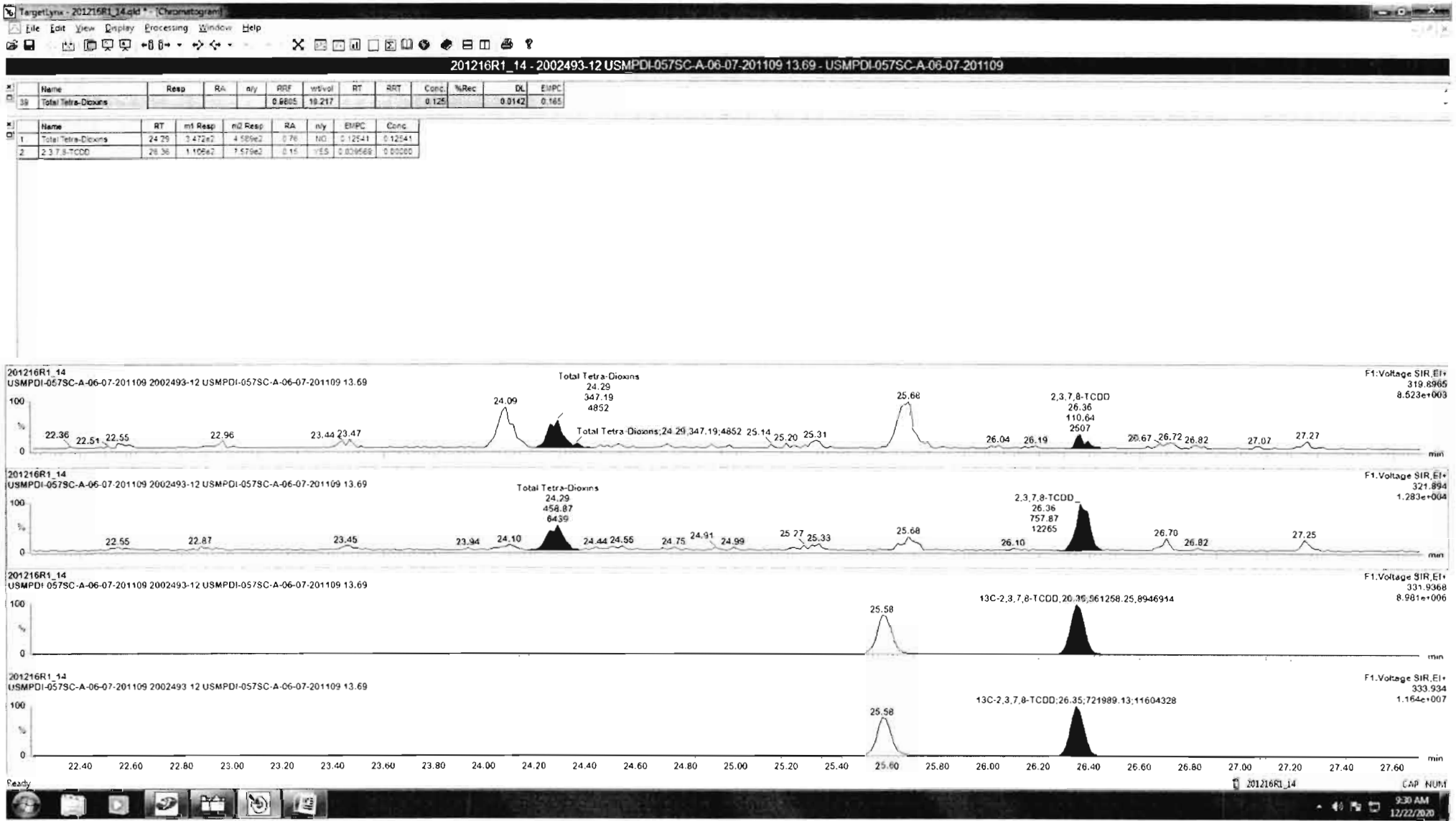
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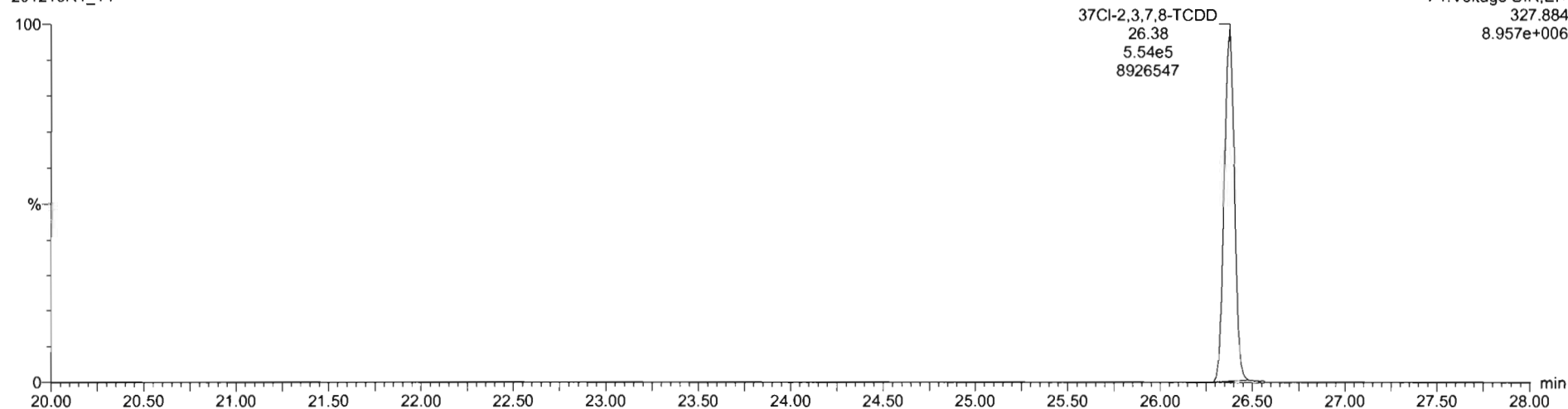
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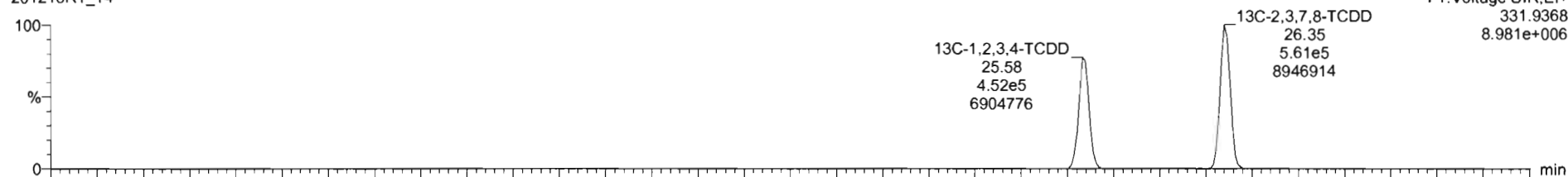
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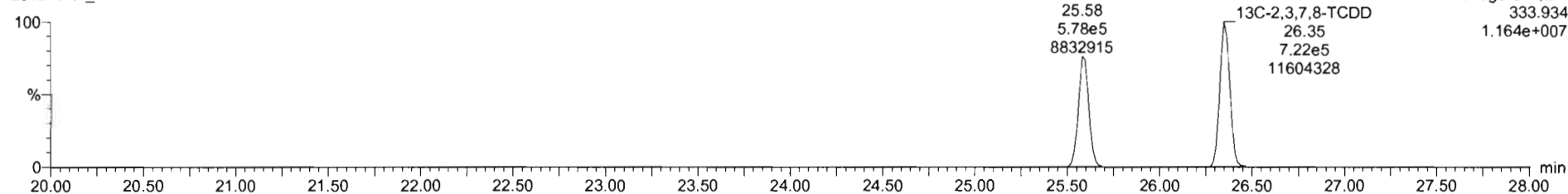


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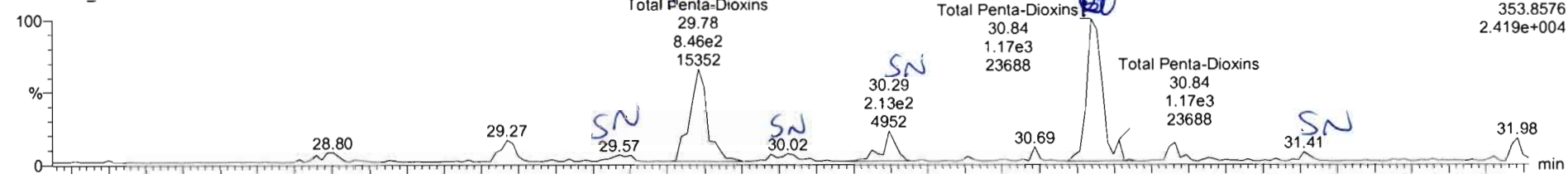
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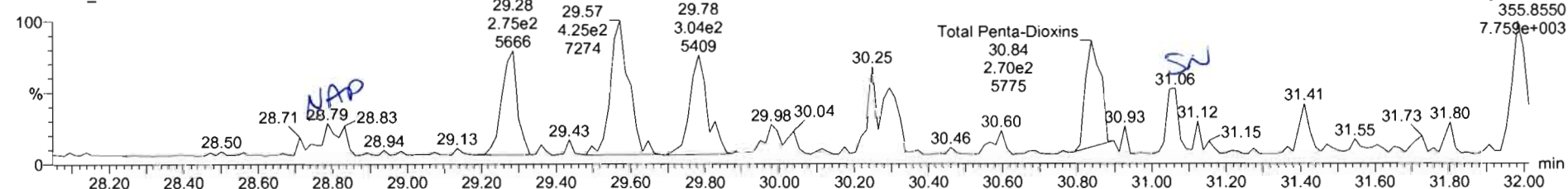
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1,2,3,7,8-PeCDD

201216R1_14



201216R1_14

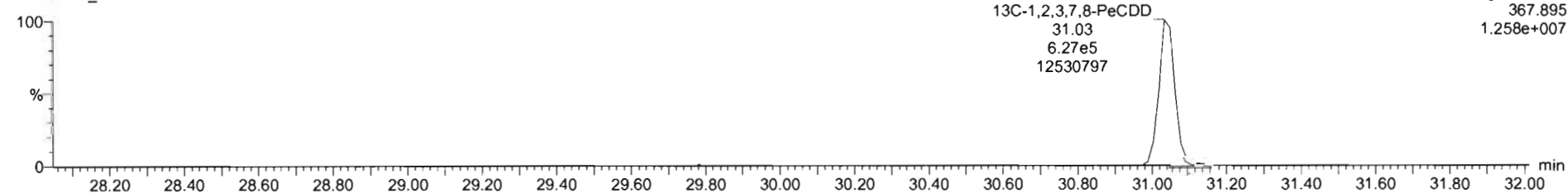


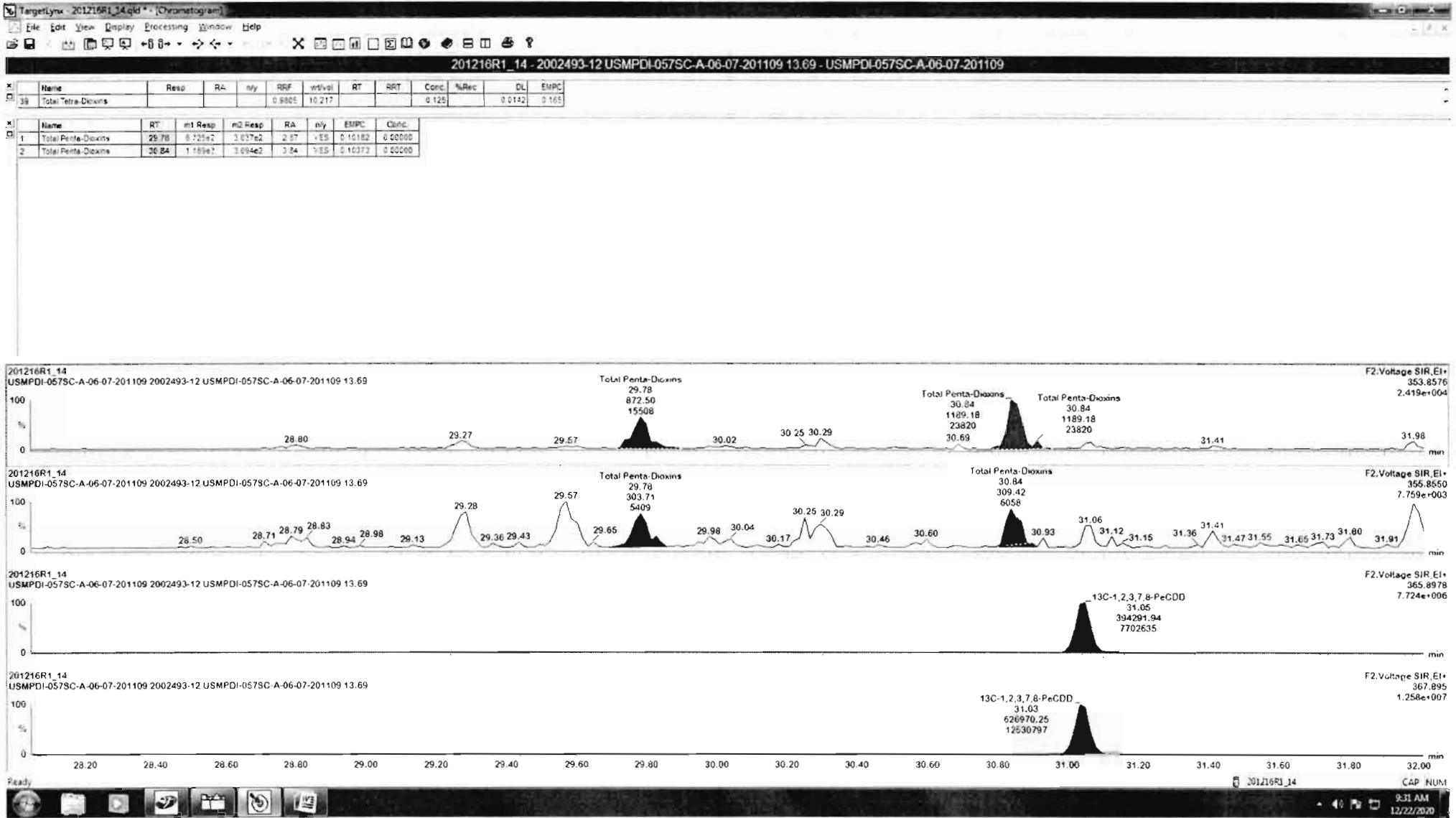
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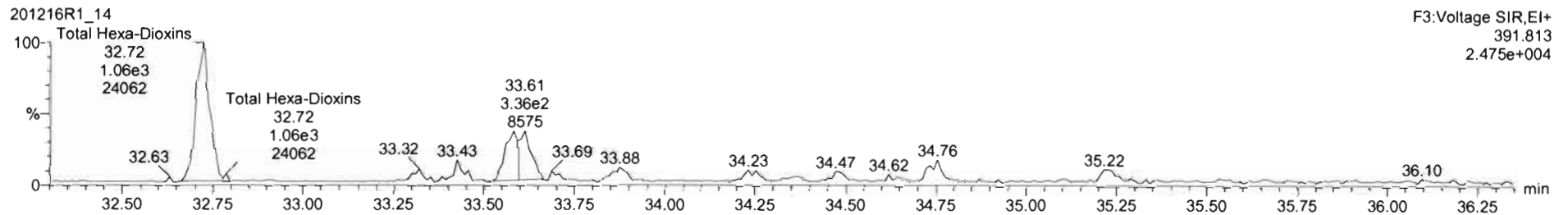
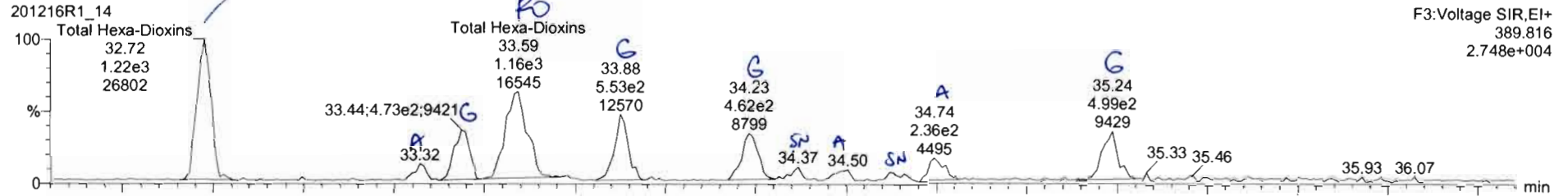
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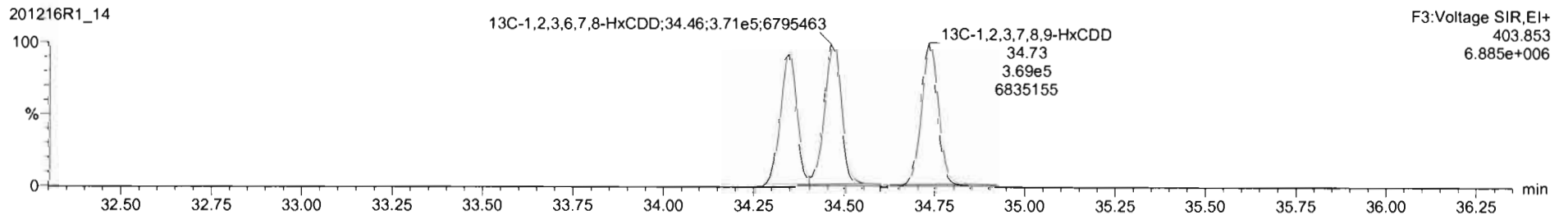
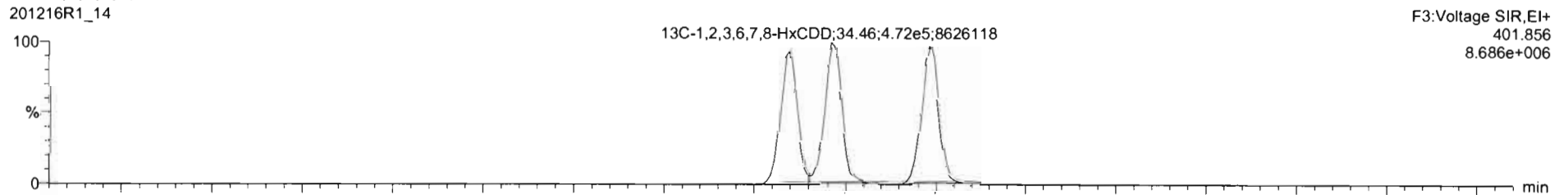
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1,2,3,4,7,8-HxCDD

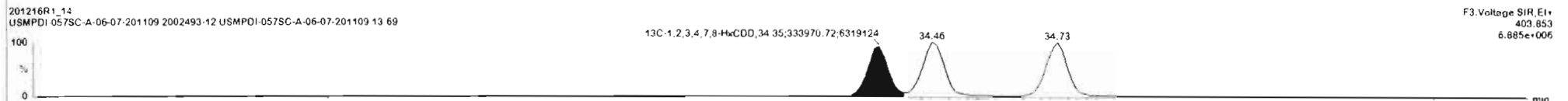
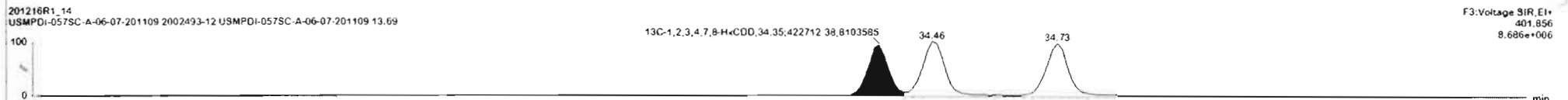
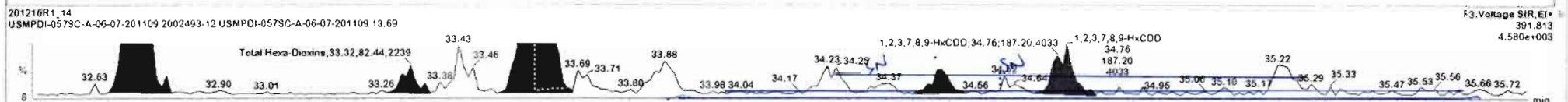
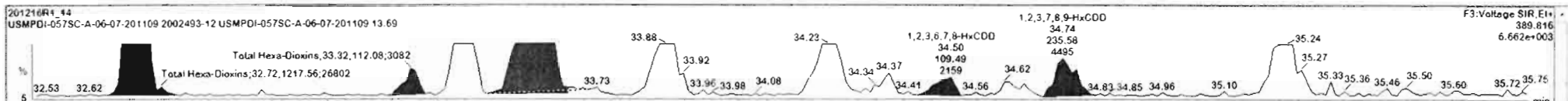


13C-1,2,3,4,7,8-HxCDD



Name	Reso	RA	n/y	RRF	rtvol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.6625	10.217			0.821	0.0350	1.23	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.72	1.215e3	1.054e3	1.14	NO	0.61245	0.61245
2 Total Hexa-Dioxins	33.32	1.121e2	8.244e1	1.36	NO	0.052215	0.052215
3 Total Hexa-Dioxins	33.59	1.152e2	6.670e2	1.72	YES	0.41310	0.00000
4 1,2,3,6,7,8-HxCDD	34.50	1.095e2	8.616e1	1.24	NO	0.050852	0.050852
5 1,2,3,7,8,9-HxCDD	34.74	2.368e2	1.872e2	1.26	NO	0.10521	0.10521



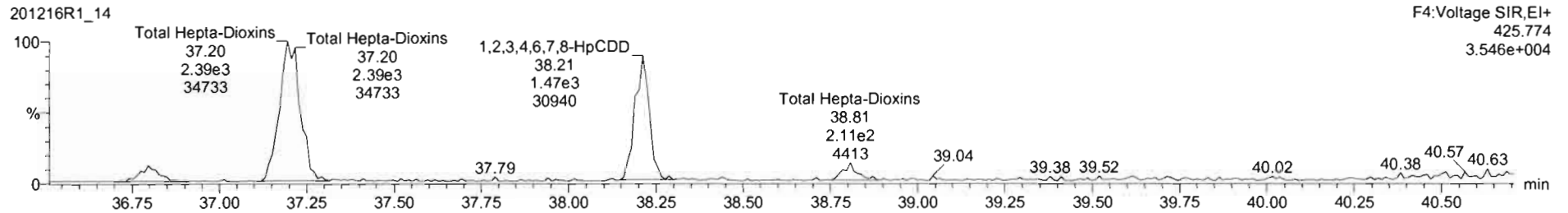
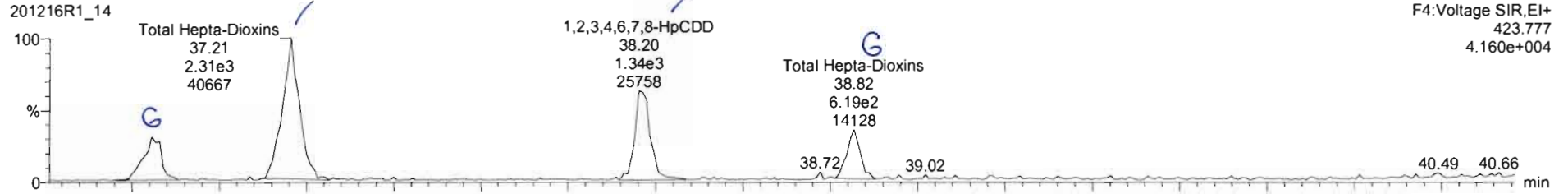
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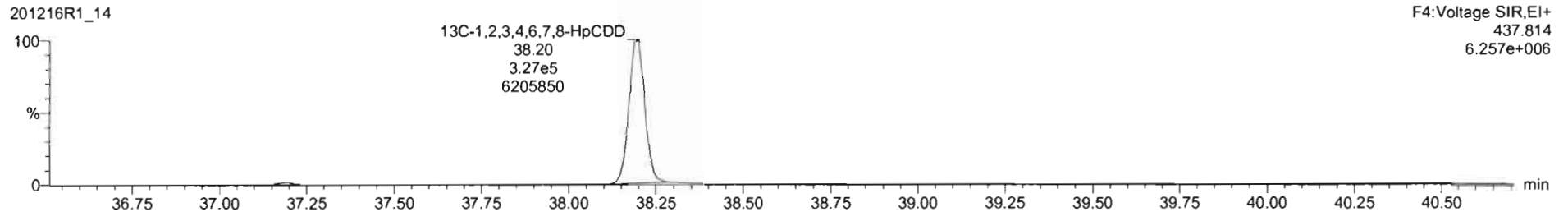
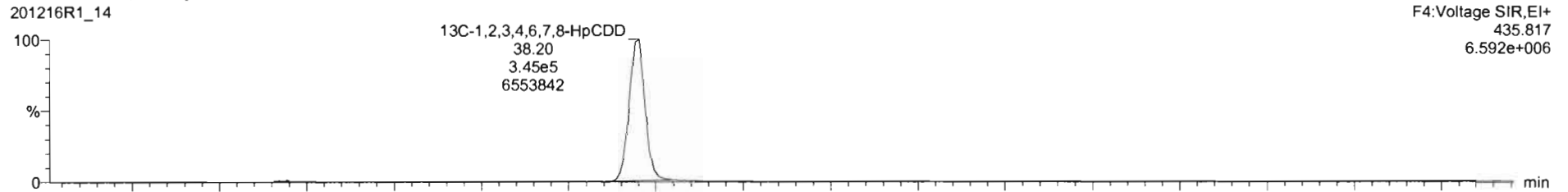
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1,2,3,4,6,7,8-HpCDD



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

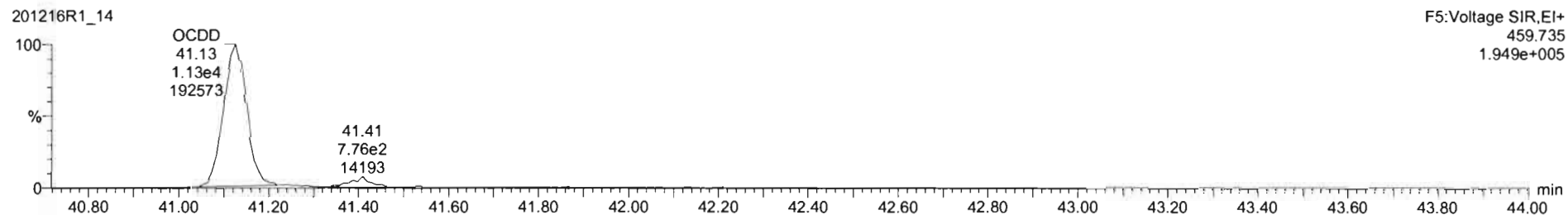
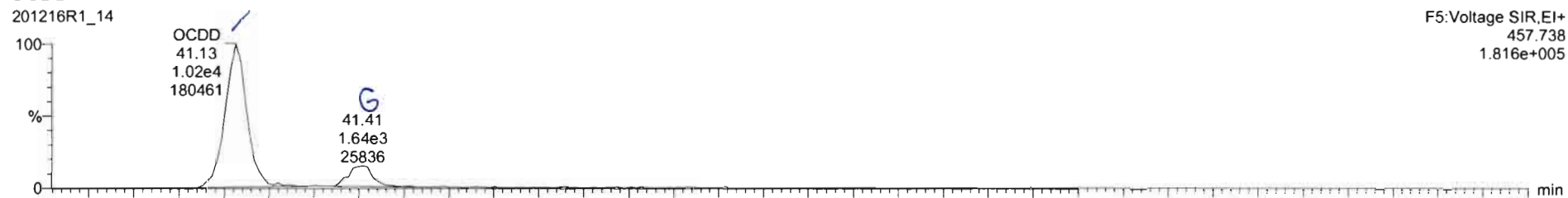


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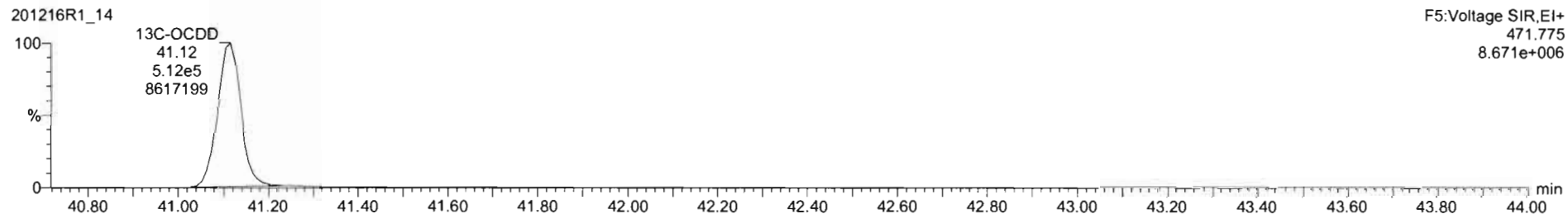
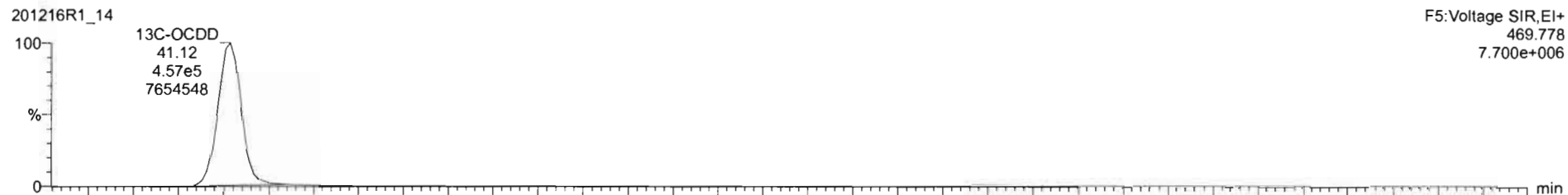
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OCDD



13C-OCDD

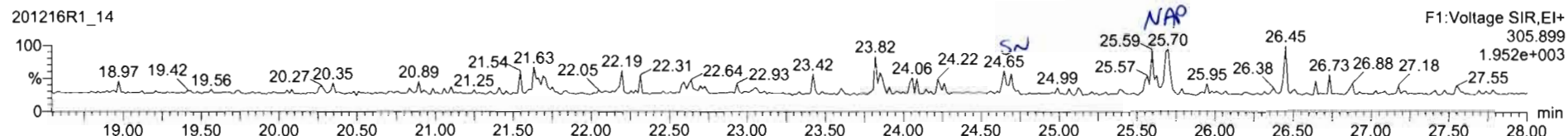
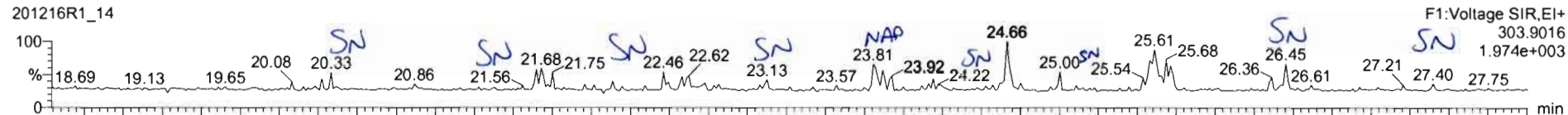


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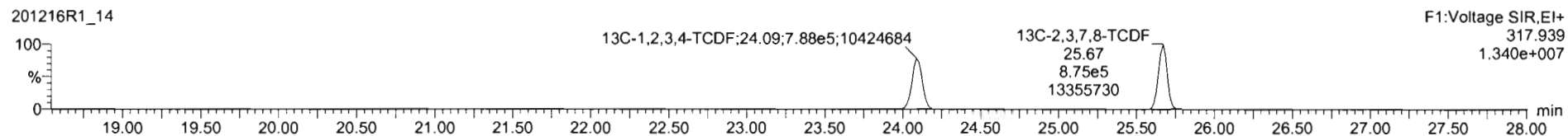
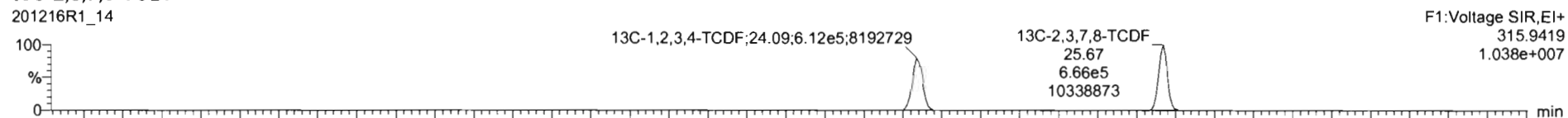
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

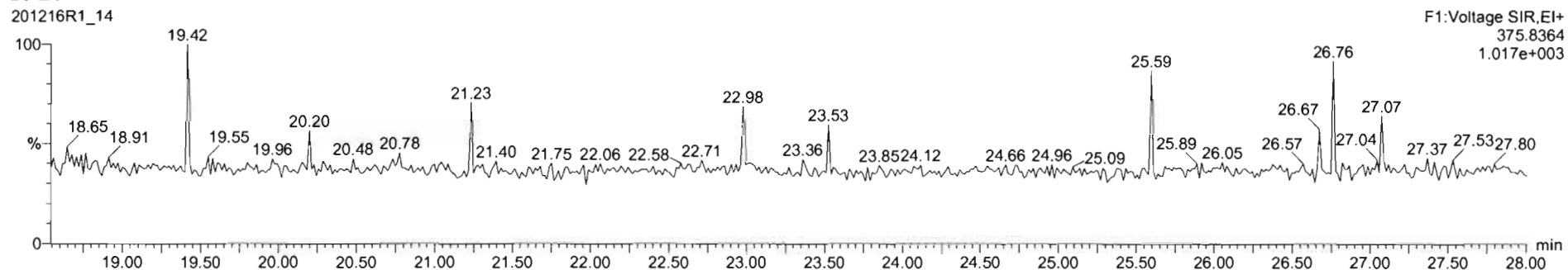
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

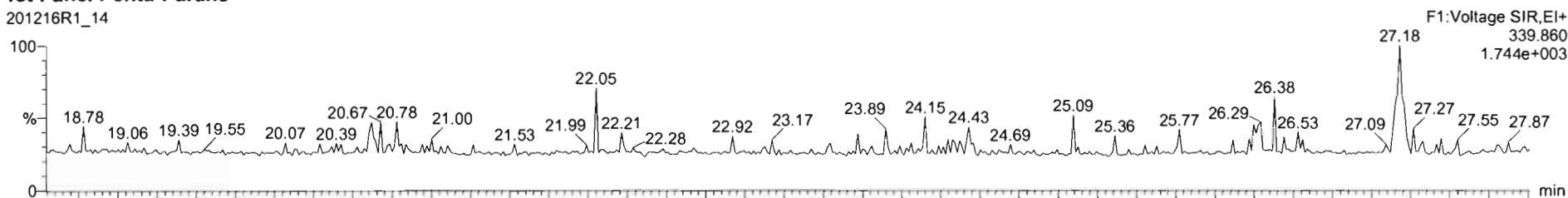
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time

Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

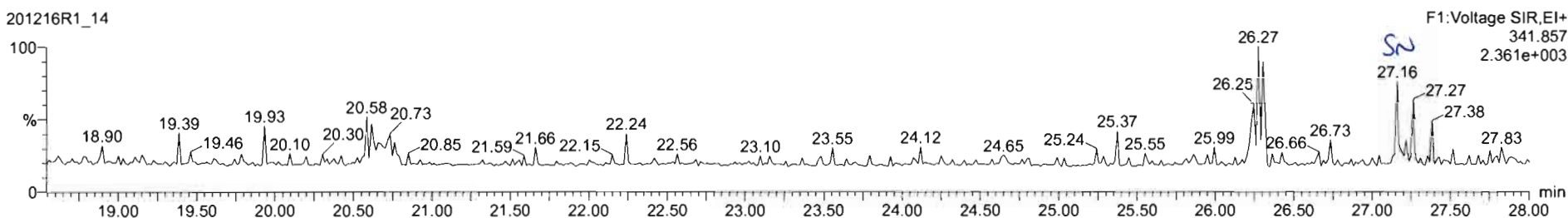
Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

1st Func. Penta-Furans

201216R1_14

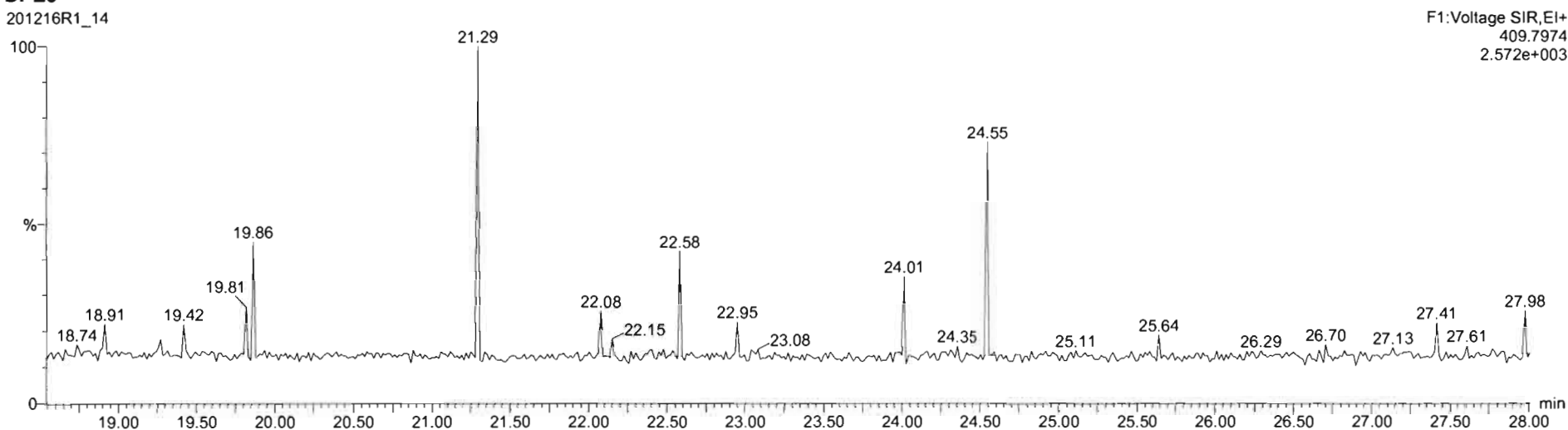


201216R1_14



DPE6

201216R1_14



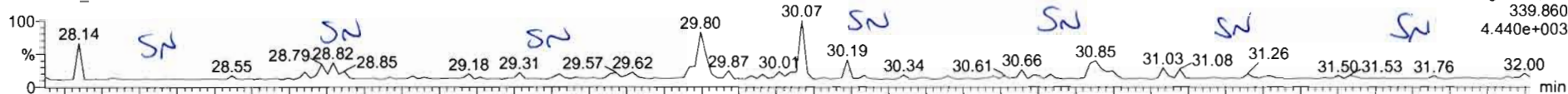
Dataset: Untitled

Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

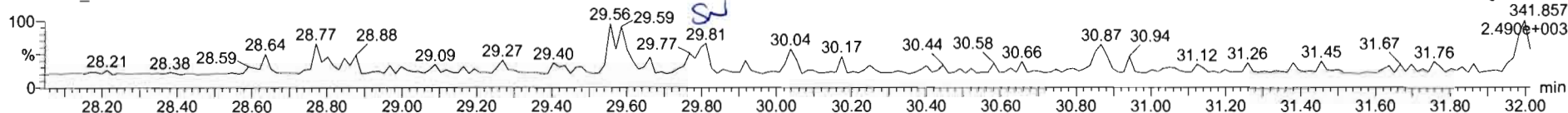
Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

1,2,3,7,8-PeCDF

201216R1_14

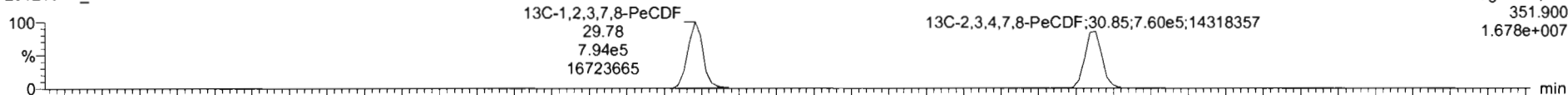


201216R1_14

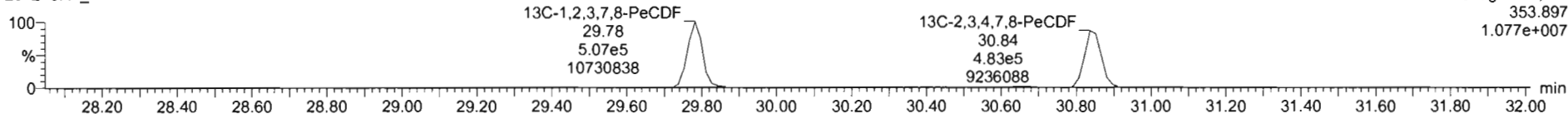


13C-1,2,3,7,8-PeCDF

201216R1_14

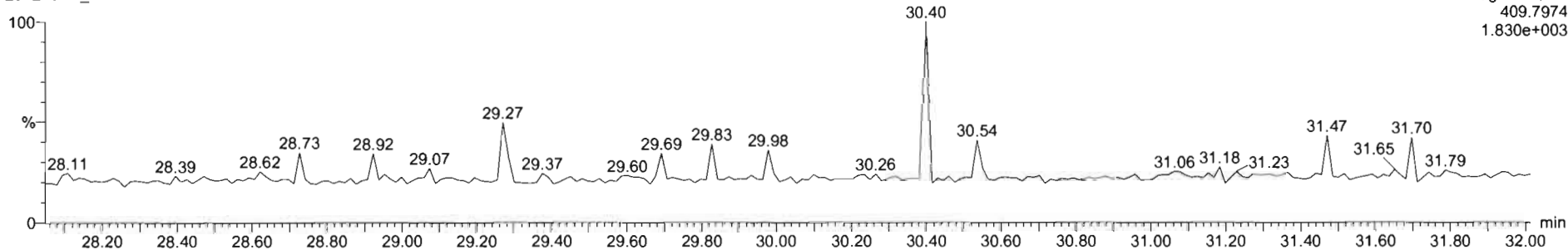


201216R1_14



DPE2

201216R1_14

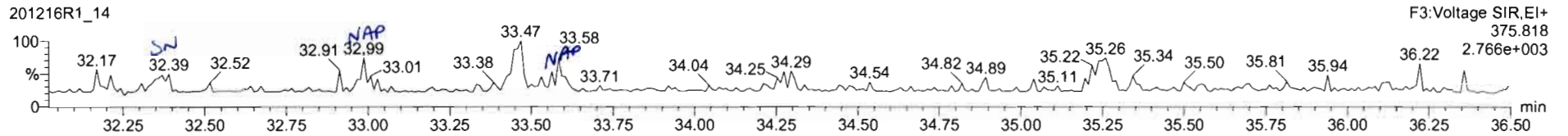
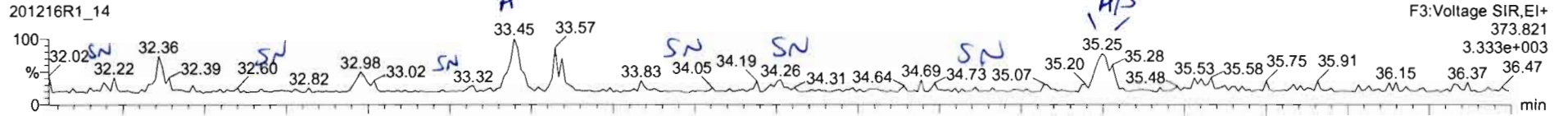


Dataset: Untitled

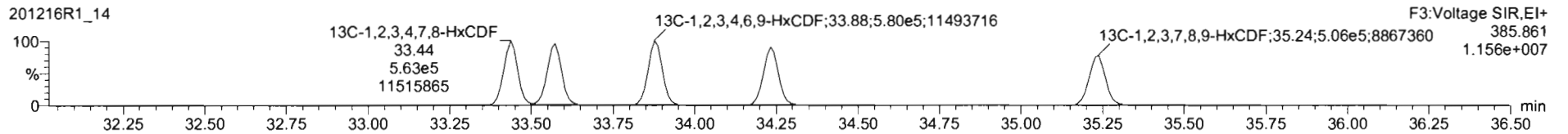
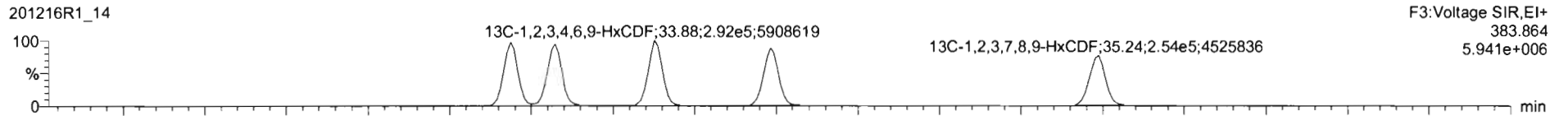
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

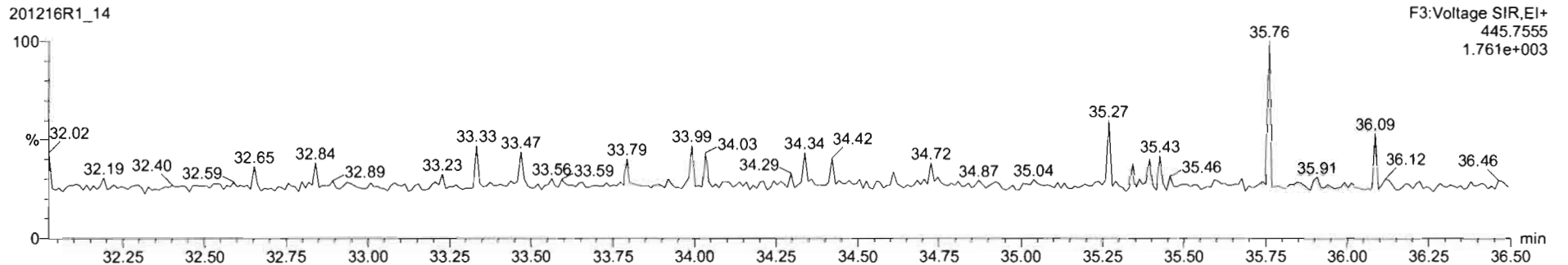
1,2,3,4,7,8-HxCDF

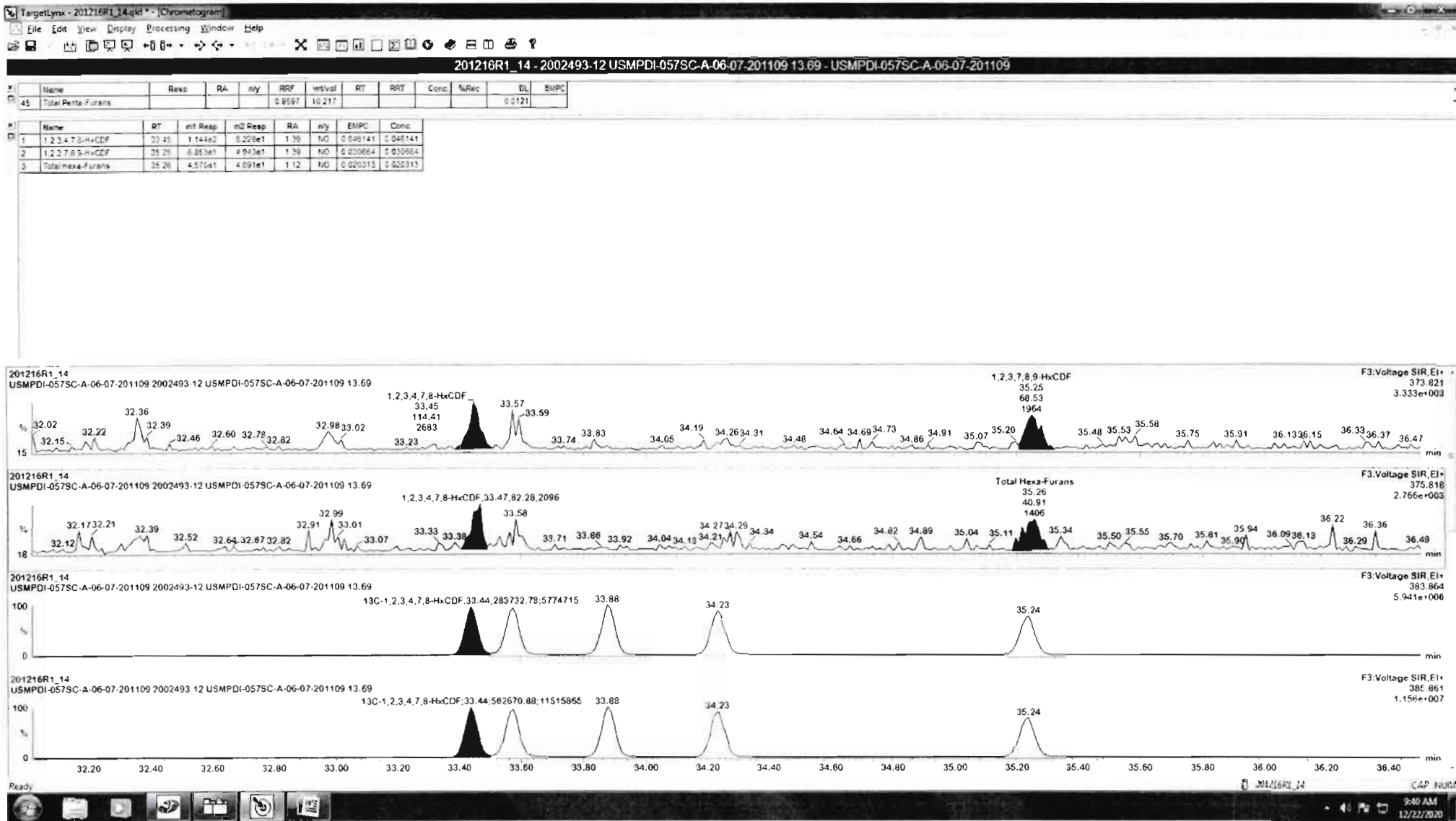


13C-1,2,3,4,7,8-HxCDF



DPE3



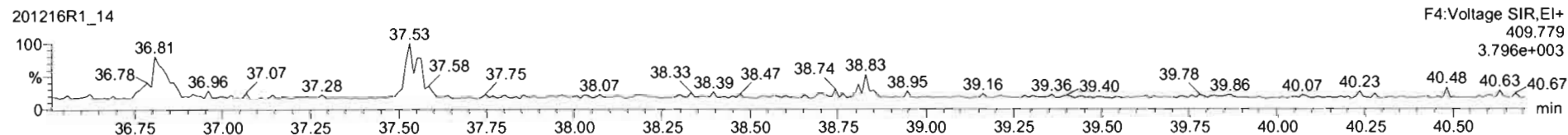
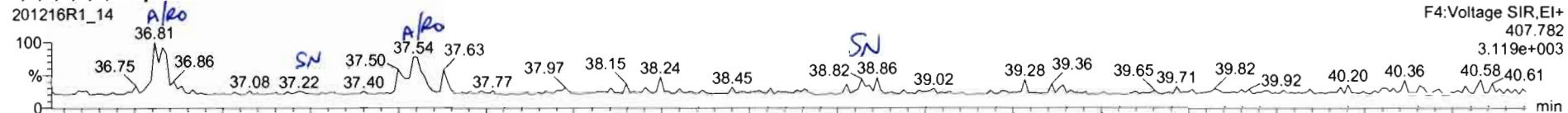


Dataset: Untitled

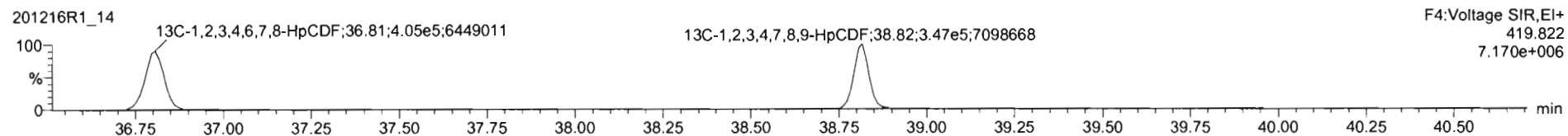
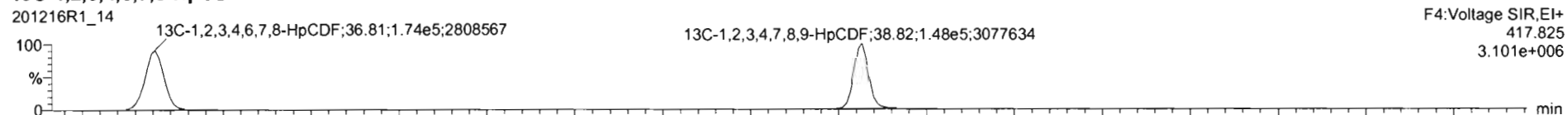
Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109

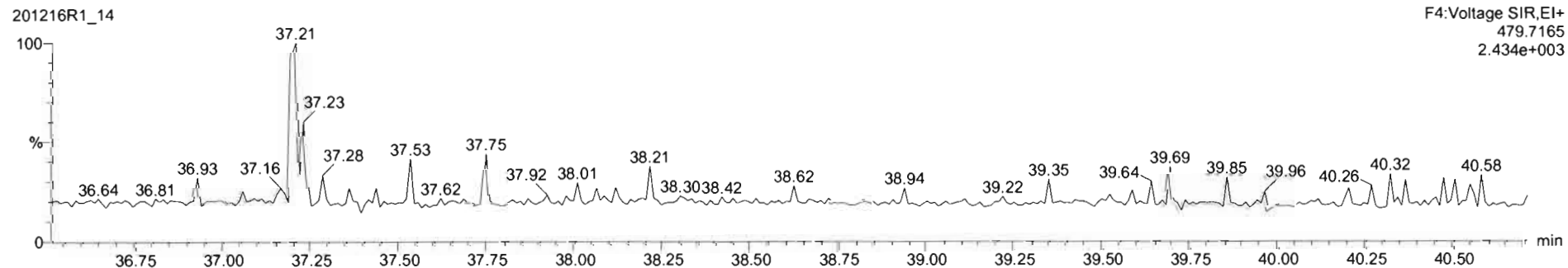
1,2,3,4,6,7,8-HpCDF

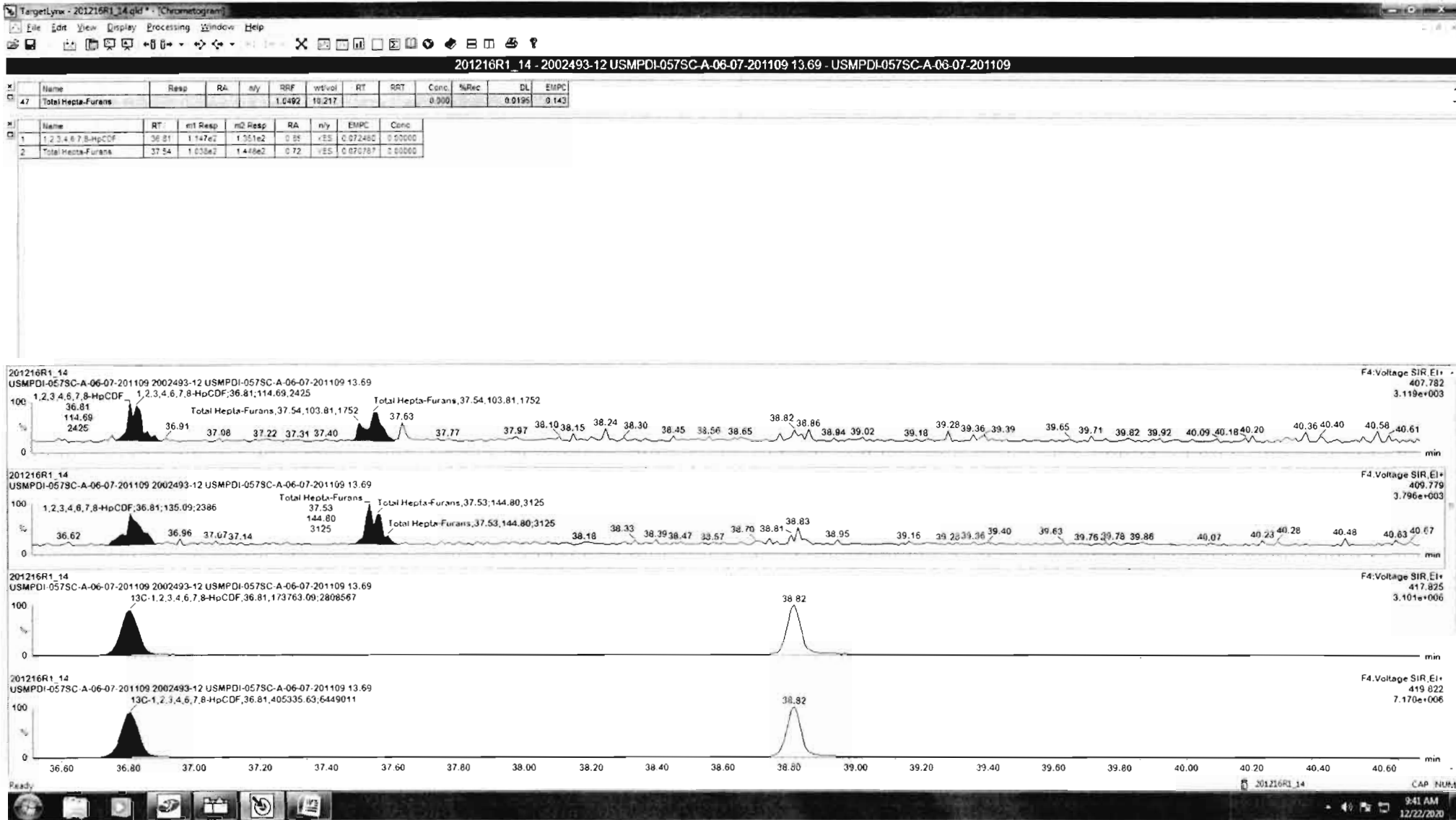


13C-1,2,3,4,6,7,8-HpCDF



DPE4

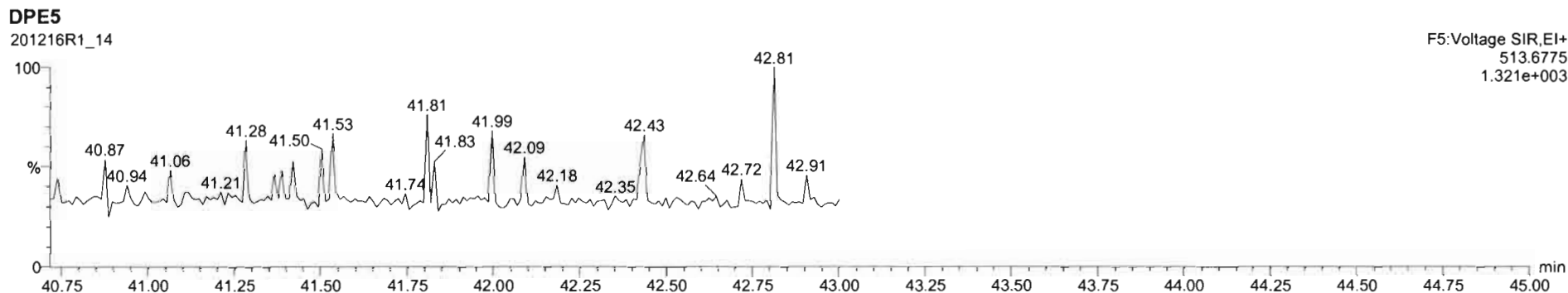
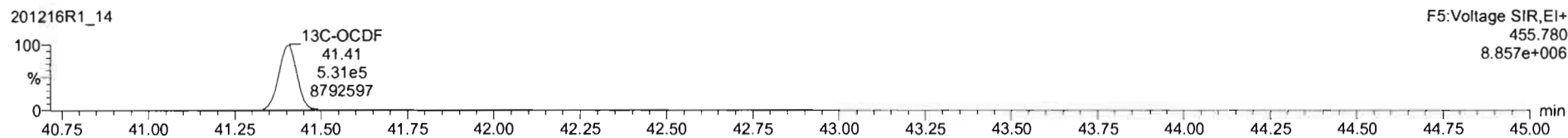
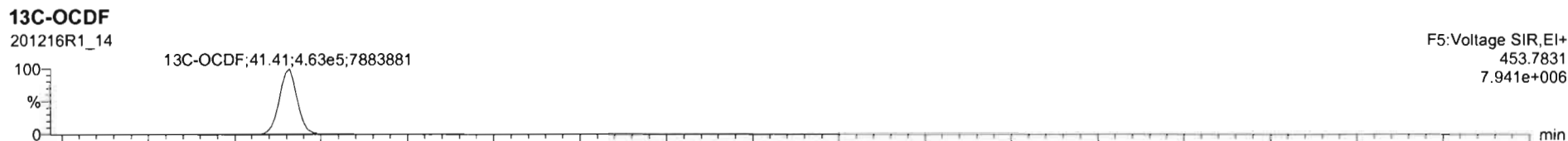
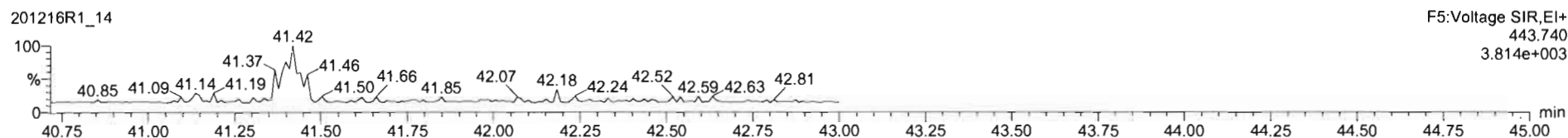
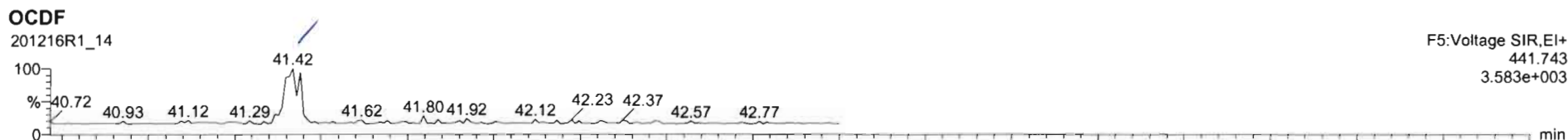


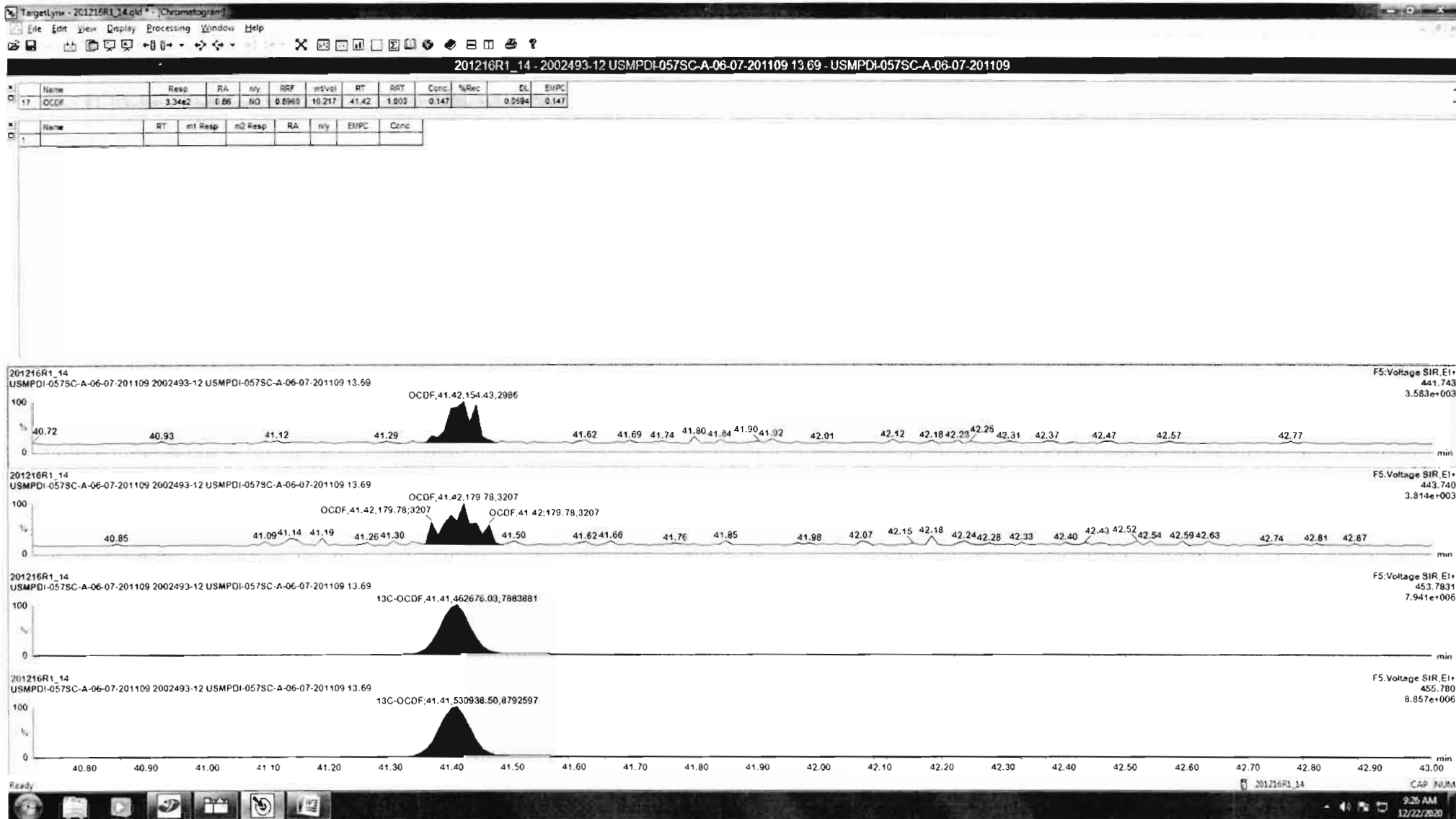


Dataset: Untitled

Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time
Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109



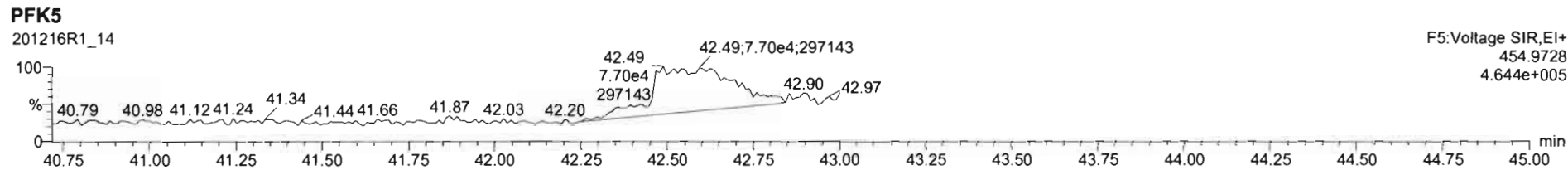
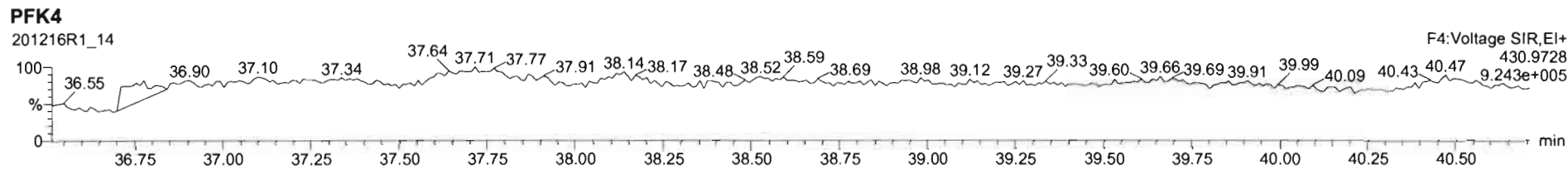
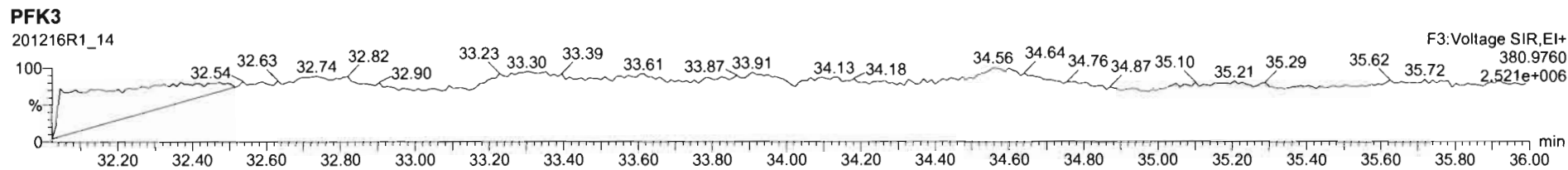
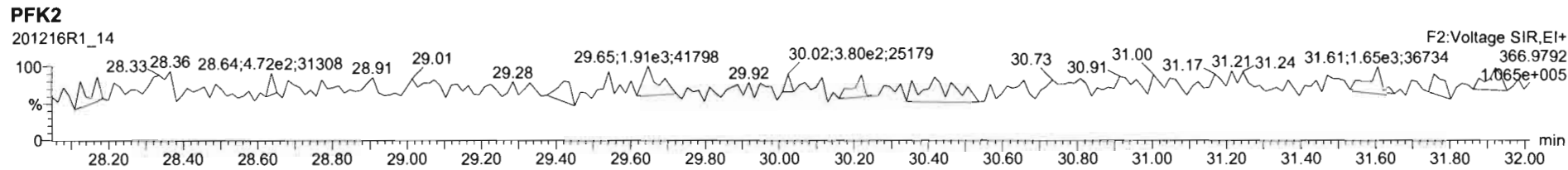
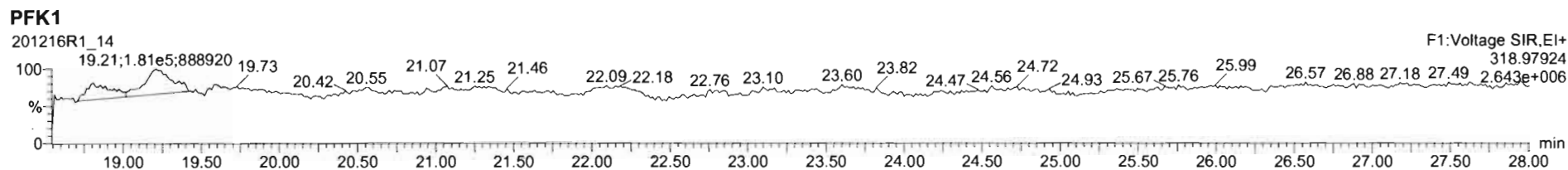


Dataset: Untitled

Last Altered: Thursday, December 17, 2020 6:54:29 AM Pacific Standard Time

Printed: Thursday, December 17, 2020 7:00:08 AM Pacific Standard Time

Name: 201216R1_14, Date: 16-Dec-2020, Time: 18:15:49, ID: 2002493-12 USMPDI-057SC-A-06-07-201109 13.69, Description: USMPDI-057SC-A-06-07-201109



CONTINUING CALIBRATION

..... CALIBRATION STANDARDS REVIEW CHECKLIST

Begin Calibration ID: ST2012/4R1-2

Reviewed By: GPB 12/15/2020

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>FIN</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (Y)	N
- Bottle position verified?	<u>FIN</u>	

Mass resolution ≥

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>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> NA

Comments:

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:20:55 Pacific Standard Time

HN 12/14/2020
GPB 12/15/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	1.27e5	1.26e6	0.77	NO	0.980	26.38	26.38	NO	1.001	1.001	10.271	103	NO
2	2 1,2,3,7,8-PeCDD	4.85e5	9.68e5	0.62	NO	0.932	31.06	31.05	NO	1.001	1.000	53.732	107	NO
3	3 1,2,3,4,7,8-HxCDD	4.10e5	7.69e5	1.24	NO	1.02	34.36	34.36	NO	1.001	1.001	52.228	104	NO
4	4 1,2,3,6,7,8-HxCDD	4.19e5	8.78e5	1.23	NO	0.902	34.48	34.47	NO	1.001	1.000	52.902	106	NO
5	5 1,2,3,7,8,9-HxCDD	4.12e5	8.51e5	1.23	NO	0.954	34.74	34.74	NO	1.000	1.000	50.742	101	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.17e5	6.97e5	1.03	NO	0.918	38.20	38.20	NO	1.000	1.000	49.520	99.0	NO
7	7 OCDD	5.02e5	1.09e6	0.88	NO	0.866	41.10	41.10	NO	1.000	1.000	106.32	106	NO
8	8 2,3,7,8-TCDF	1.42e5	1.77e6	0.74	NO	0.848	25.67	25.68	NO	1.000	1.001	9.4613	94.6	NO
9	9 1,2,3,7,8-PeCDF	7.35e5	1.46e6	1.55	NO	0.960	29.78	29.80	NO	1.000	1.000	52.529	105	NO
10	10 2,3,4,7,8-PeCDF	7.53e5	1.36e6	1.52	NO	1.07	30.86	30.85	NO	1.001	1.000	51.840	104	NO
11	11 1,2,3,4,7,8-HxCDF	4.79e5	9.93e5	1.21	NO	0.986	33.44	33.45	NO	1.000	1.001	48.986	98.0	NO
12	12 1,2,3,6,7,8-HxCDF	5.12e5	9.95e5	1.21	NO	1.04	33.58	33.58	NO	1.001	1.001	49.544	99.1	NO
13	13 2,3,4,6,7,8-HxCDF	4.73e5	9.34e5	1.23	NO	1.02	34.25	34.24	NO	1.001	1.000	49.707	99.4	NO
14	14 1,2,3,7,8,9-HxCDF	4.54e5	9.23e5	1.24	NO	0.991	35.24	35.25	NO	1.000	1.001	49.674	99.3	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.67e5	7.01e5	1.01	NO	1.05	36.81	36.82	NO	1.000	1.001	49.825	99.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.32e5	5.66e5	1.01	NO	1.18	38.82	38.82	NO	1.000	1.000	49.839	99.7	NO
17	17 OCDF	5.54e5	1.23e6	0.87	NO	0.896	41.38	41.39	NO	1.000	1.000	100.54	101	NO
18	18 13C-2,3,7,8-TCDD	1.26e6	1.18e6	0.79	NO	1.06	26.35	26.35	NO	1.030	1.030	101.23	101	NO
19	19 13C-1,2,3,7,8-PeCDD	9.68e5	1.18e6	0.63	NO	0.785	31.19	31.03	NO	1.219	1.213	104.90	105	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.69e5	1.10e6	1.29	NO	0.621	34.34	34.34	NO	1.014	1.014	112.32	112	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.78e5	1.10e6	1.25	NO	0.734	34.46	34.46	NO	1.017	1.017	108.34	108	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.51e5	1.10e6	1.27	NO	0.723	34.74	34.73	NO	1.026	1.025	106.69	107	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.97e5	1.10e6	1.04	NO	0.568	38.24	38.19	NO	1.129	1.127	111.25	111	NO
24	24 13C-OCDD	1.09e6	1.10e6	0.90	NO	0.496	41.18	41.09	NO	1.216	1.213	199.47	99.7	NO
25	25 13C-2,3,7,8-TCDF	1.77e6	1.87e6	0.77	NO	0.919	25.65	25.67	NO	1.003	1.003	102.83	103	NO
26	26 13C-1,2,3,7,8-PeCDF	1.46e6	1.87e6	1.59	NO	0.715	29.90	29.78	NO	1.169	1.164	109.00	109	NO
27	27 13C-2,3,4,7,8-PeCDF	1.36e6	1.87e6	1.58	NO	0.689	30.99	30.84	NO	1.212	1.206	105.79	106	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.93e5	1.10e6	0.50	NO	0.873	33.44	33.43	NO	0.987	0.987	102.95	103	NO
29	29 13C-1,2,3,6,7,8-HxCDF	9.95e5	1.10e6	0.51	NO	0.933	33.57	33.56	NO	0.991	0.991	96.583	96.6	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.34e5	1.10e6	0.51	NO	0.843	34.24	34.23	NO	1.011	1.010	100.33	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	9.23e5	1.10e6	0.51	NO	0.780	35.24	35.23	NO	1.040	1.040	107.16	107	NO

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time

Printed: Monday, December 14, 2020 12:20:55 Pacific Standard Time

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	7.01e5	1.10e6	0.42	NO	0.726	36.81	36.79	NO	1.087	1.086	87.439	87.4	NO
33	13C-1,2,3,4,7,8,9-HpCDF	5.66e5	1.10e6	0.43	NO	0.491	38.82	38.81	NO	1.146	1.145	104.38	104	NO
34	13C-OCDF	1.23e6	1.10e6	0.87	NO	0.565	41.40	41.38	NO	1.222	1.221	197.00	98.5	NO
35	37Cl-2,3,7,8-TCDD	1.59e5	1.18e6			1.22	26.35	26.38	NO	1.030	1.031	11.077	111	NO
36	13C-1,2,3,4-TCDD	1.18e6	1.18e6	0.80	NO	1.00	25.64	25.58	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.87e6	1.87e6	0.79	NO	1.00	24.13	24.09	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.10e6	1.10e6	0.51	NO	1.00	33.92	33.88	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Tuesday, December 15, 2020 6:52:02 AM Pacific Standard Time
Printed: Tuesday, December 15, 2020 6:53:09 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Compound name: 2,3,4,7,8-PeCDF

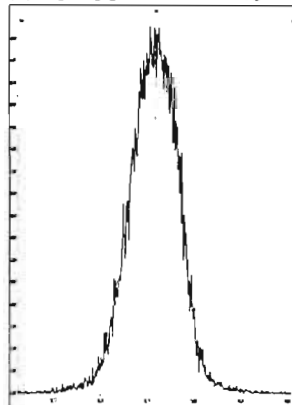
	Name	ID	Acq.Date	Acq.Time
1	201214R1_1	ST201214R1_1 1613 CS3 20L0301	14-Dec-20	10:05:30
2	201214R1_2	ST201214R1_2 1613 CS3 20L0301	14-Dec-20	11:24:15
3	201214R1_3	SOLVENT BLANK	14-Dec-20	12:12:55
4	201214R1_4	SOLVENT BLANK	14-Dec-20	13:02:53
5	201214R1_5	B0L0040-BS1 OPR 10	14-Dec-20	13:49:10
6	(A) 201214R1_6			
7	201214R1_7	B0L0040-BLK1 Method Blank 10	14-Dec-20	15:22:36
8	201214R1_8	2002431-06@10X USMPDI-044SC-A-10-11-2...	14-Dec-20	16:09:29
9	201214R1_9	2002434-10 USMPDI-056SC-A-01-02-201107 ...	14-Dec-20	16:53:43
10	201214R1_10	2002434-13 USMPDI-056SC-A-04-05-201107 ...	14-Dec-20	17:37:57
11	201214R1_11	B0L0034-DUP1 Duplicate 16.99	14-Dec-20	18:22:12
12	201214R1_12	B0L0034-DUP2 Duplicate 17.17	14-Dec-20	19:06:26
13	201214R1_13	2002435-01 USMPDI-013SC-A-01-02-201108 ...	14-Dec-20	19:50:42
14	201214R1_14	2002435-02 USMPDI-013SC-A-02-03-201108 ...	14-Dec-20	20:34:57

(A) Instrument paused, allowed solvent blank (4x) to go through GC cycle, no data acquired HN 12/15/2020 ✓

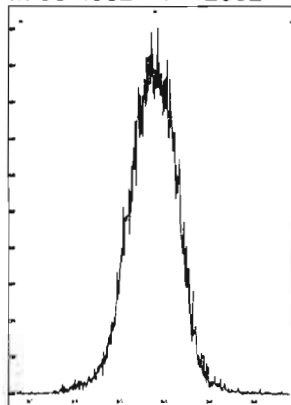
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, December 14, 2020 11:19:04 Pacific Standard Time

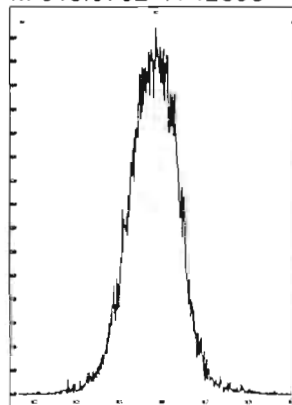
M 292.9824 R 12625



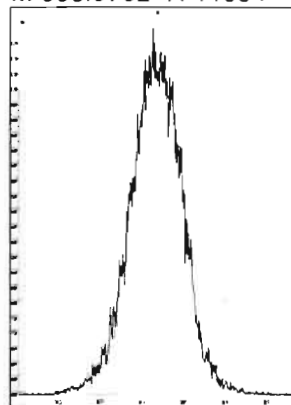
M 304.9824 R 12502



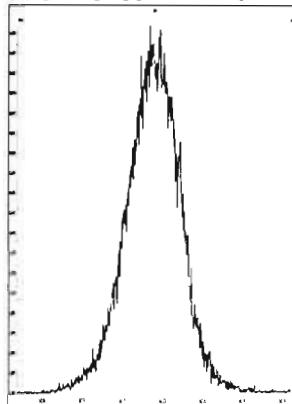
M 318.9792 R 12690



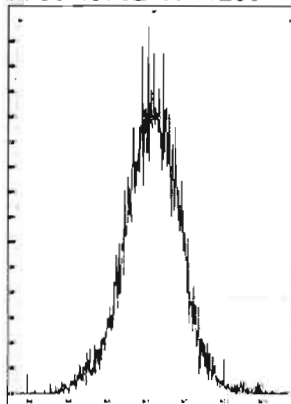
M 330.9792 R 11064



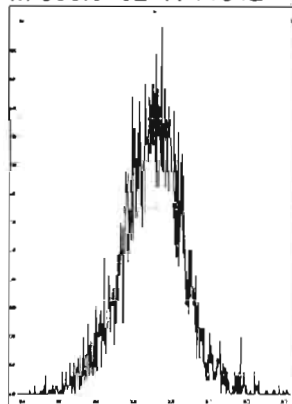
M 342.9792 R 11057



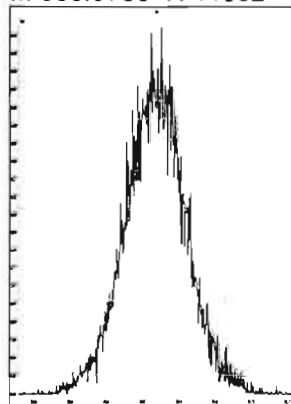
M 354.9792 R 11259



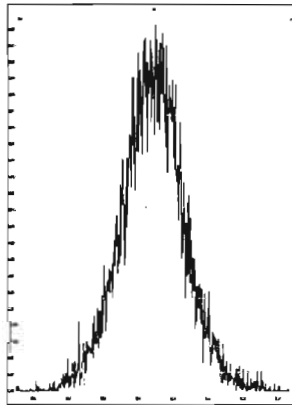
M 366.9792 R 11312



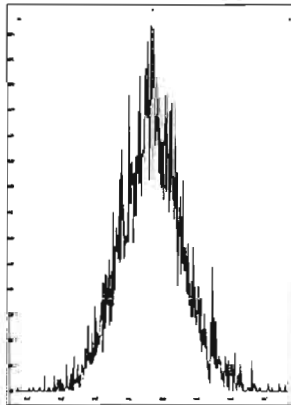
M 380.9760 R 11362



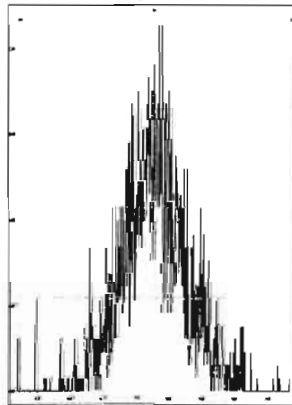
M 392.9760 R 10122



M 404.9760 R 11061



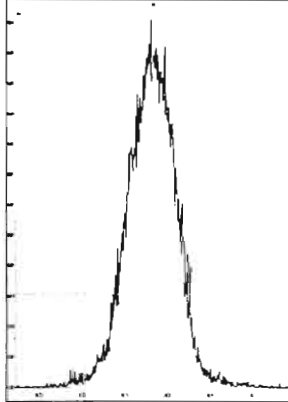
M 416.9760 R 12378



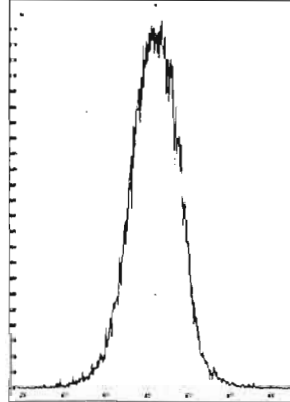
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, December 14, 2020 11:20:11 Pacific Standard Time

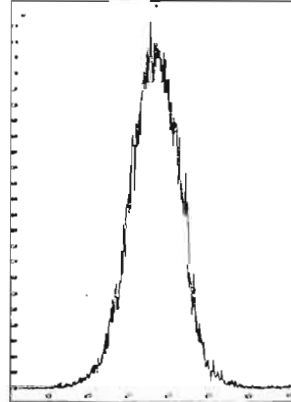
M 318.9792 R 12754



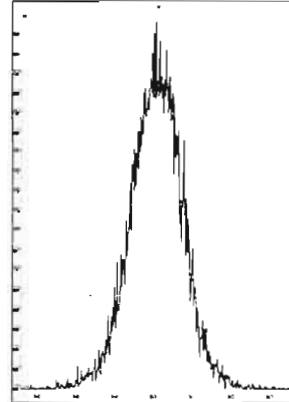
M 330.9792 R 11850



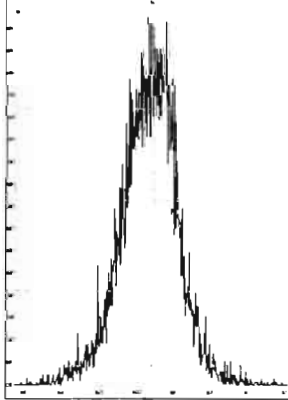
M 342.9792 R 12195



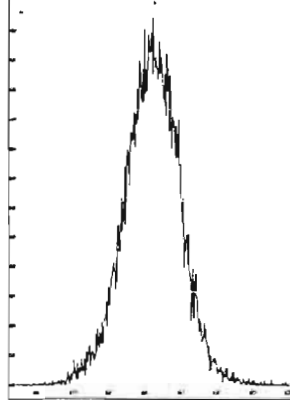
M 354.9792 R 12257



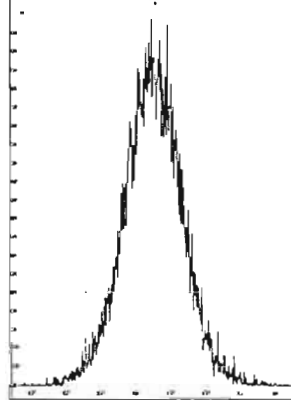
M 366.9792 R 11463



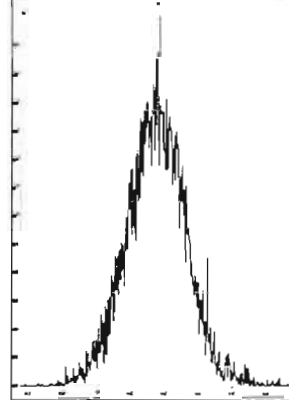
M 380.9760 R 11016



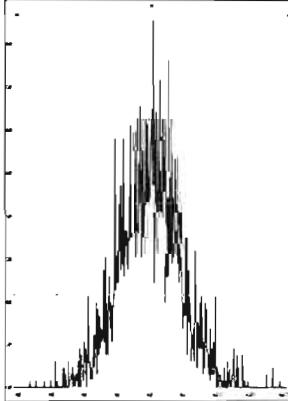
M 392.9760 R 10639



M 404.9760 R 10641



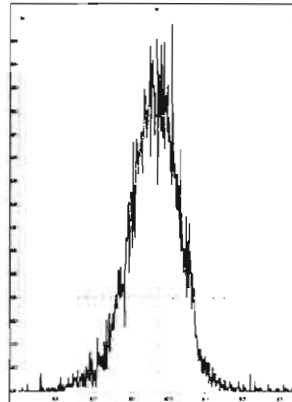
M 416.9760 R 11738



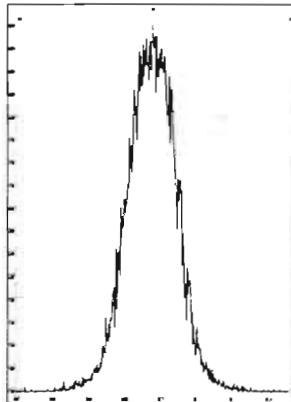
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Monday, December 14, 2020 11:21:09 Pacific Standard Time

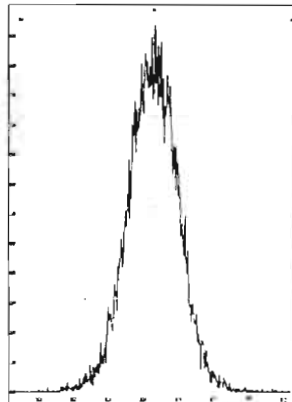
M 366.9792 R 12501



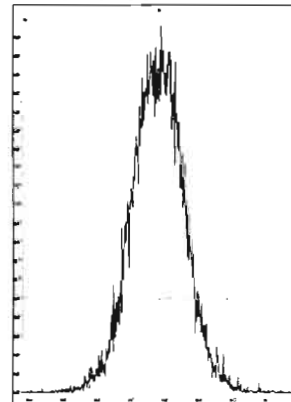
M 380.9760 R 11904



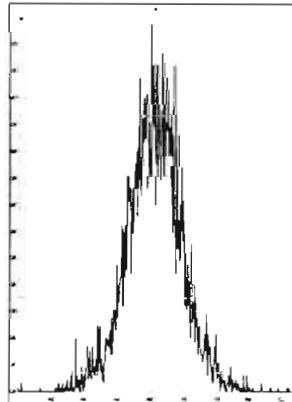
M 392.9760 R 11964



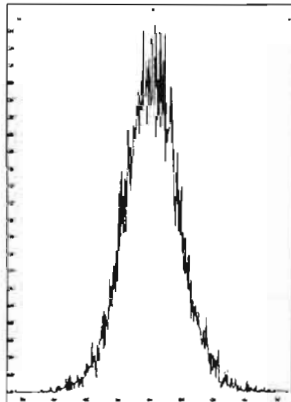
M 404.9760 R 11013



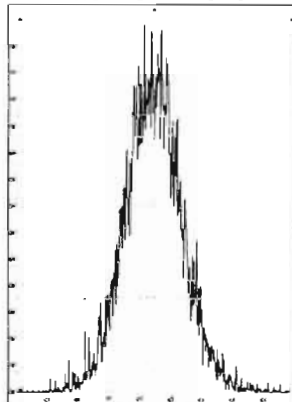
M 416.9760 R 12624



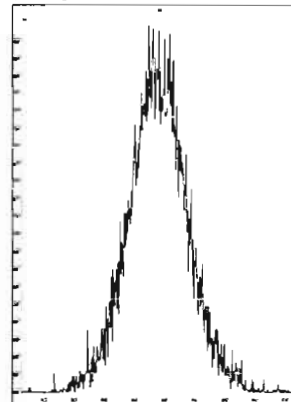
M 430.9728 R 12020



M 442.9728 R 10868



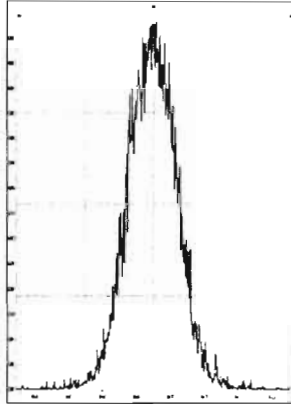
M 454.9728 R 10037



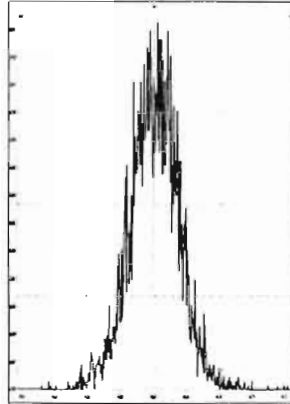
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Monday, December 14, 2020 11:22:03 Pacific Standard Time

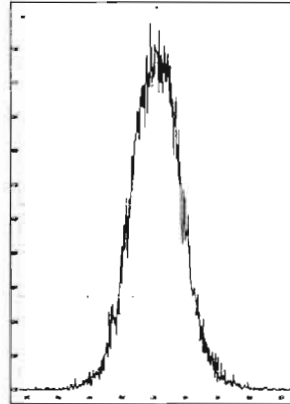
M 404.9760 R 12627



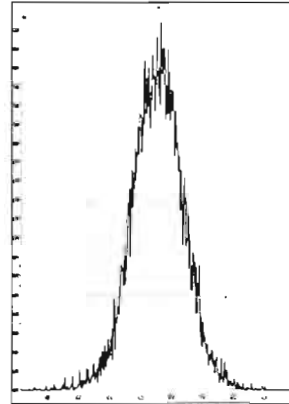
M 416.9760 R 13019



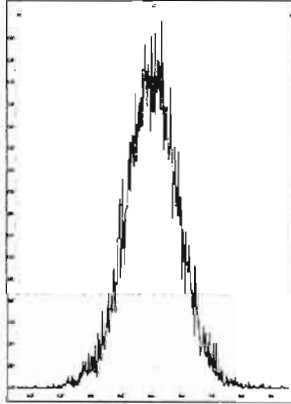
M 430.9728 R 12196



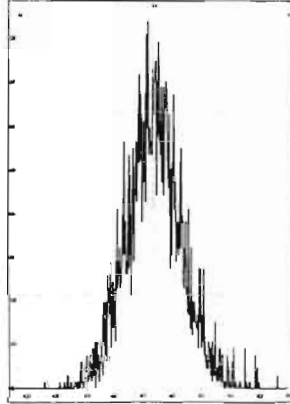
M 442.9728 R 11681



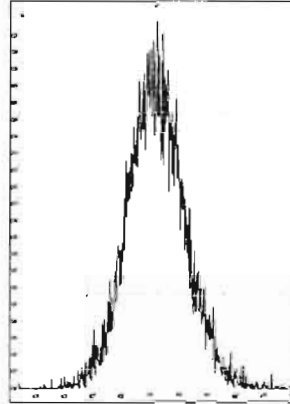
M 454.9728 R 11680



M 466.9728 R 12135



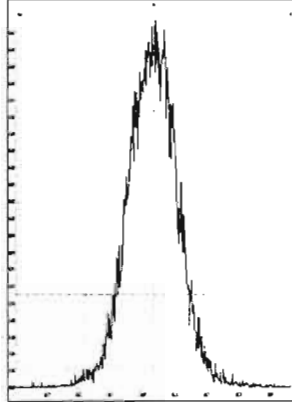
M 480.9696 R 10868



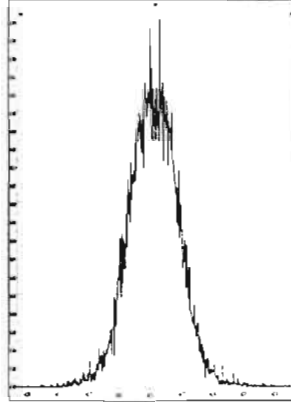
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Monday, December 14, 2020 11:22:48 Pacific Standard Time

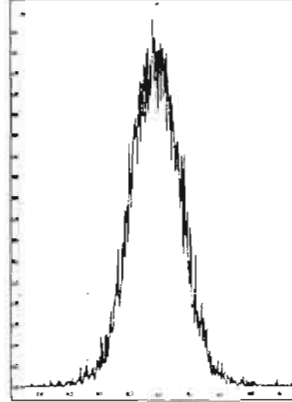
M 430.9728 R 12019



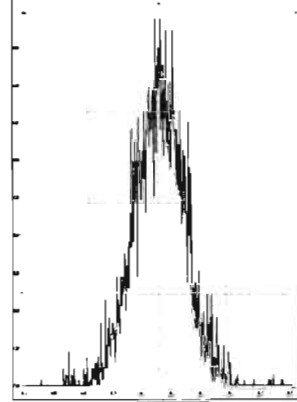
M 442.9728 R 12565



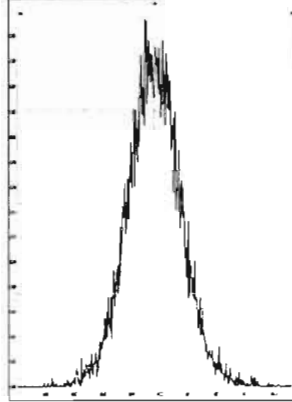
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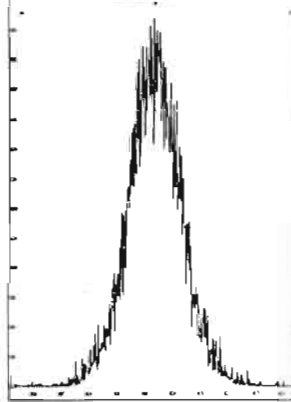
M 466.9728 R 12819



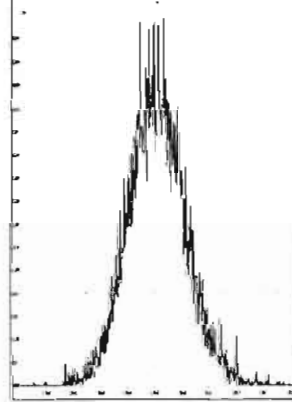
M 480.9696 R 11629



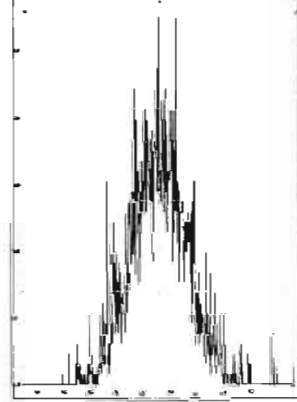
M 492.9696 R 11904



M 504.9696 R 10549



M 516.9697 R 13513



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_CPSM.qld

Last Altered: Monday, December 14, 2020 12:15:08 Pacific Standard Time

Printed: Monday, December 14, 2020 12:15:48 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1,3,6,8-TCDD (First)	22.56
2	1,2,8,9-TCDD (Last)	27.27
3	1,2,4,7,9-PeCDD (First)	28.79
4	1,2,3,8,9-PeCDD (Last)	31.41
5	1,2,4,6,7,9-HxCDD (First)	32.71
6	1,2,3,7,8,9-HxCDD (Last)	34.74
7	1,2,3,4,6,7,9-HpCDD (First)	37.20
8	1,2,3,4,6,7,8-HpCDD (Last)	38.20
9	1,3,6,8-TCDF (First)	20.30
10	1,2,8,9-TCDF (Last)	27.56
11	1,3,4,6,8-PeCDF (First)	27.13
12	1,2,3,8,9-PeCDF (Last)	31.76
13	1,2,3,4,6,8-HxCDF (First)	32.18
14	1,2,3,7,8,9-HxCDF (Last)	35.25
15	1,2,3,4,6,7,8-HpCDF (First)	36.82
16	1,2,3,4,7,8,9-HpCDF (Last)	38.82

Dataset: U:\VG12.PRO\Results\201214R1\201214R1_CPSM.qld

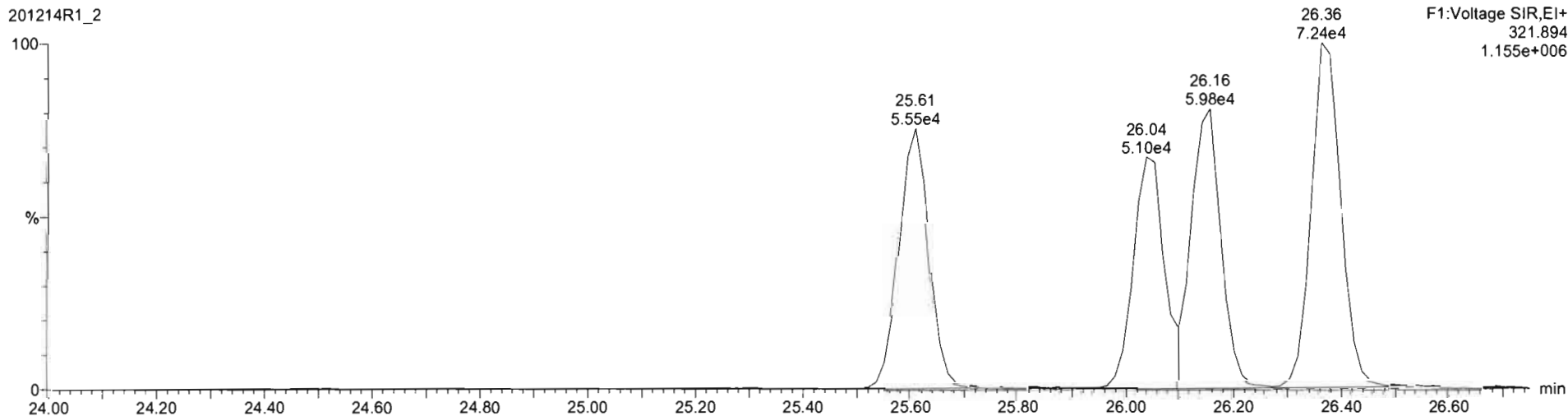
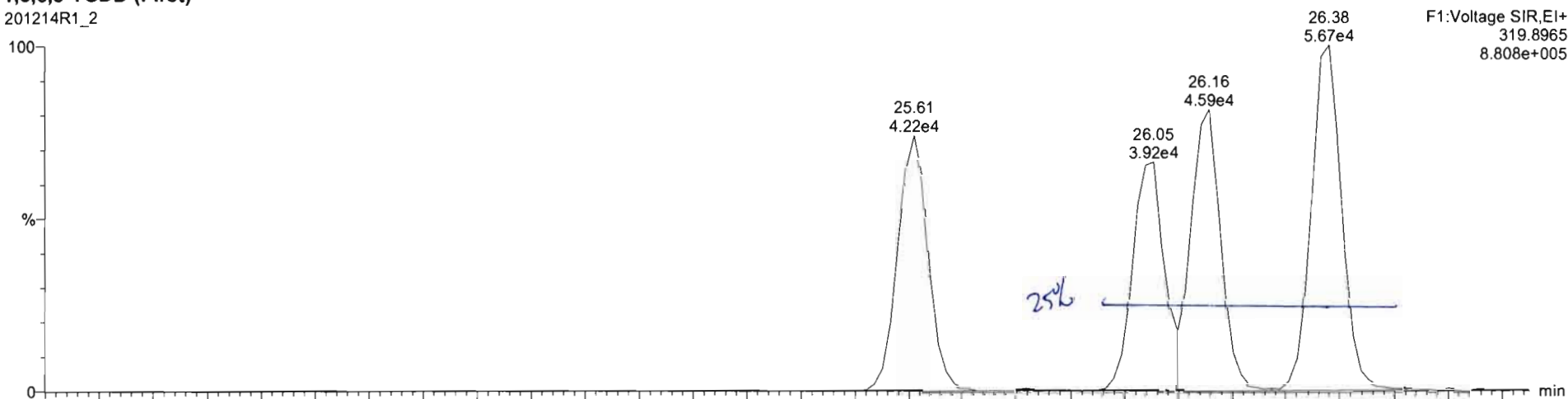
Last Altered: Monday, December 14, 2020 12:15:08 Pacific Standard Time
Printed: Monday, December 14, 2020 12:15:48 Pacific Standard Time

FIN 12/14/20
GRB 12/15/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)
201214R1_2



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_CPSM.qld

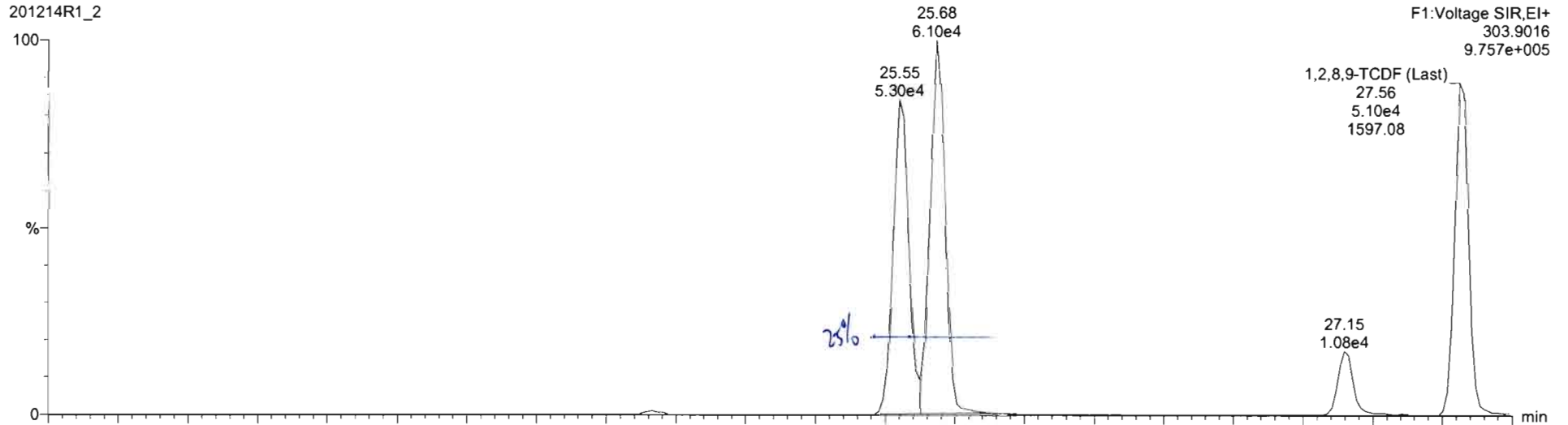
Last Altered: Monday, December 14, 2020 12:15:08 Pacific Standard Time
Printed: Monday, December 14, 2020 12:15:48 Pacific Standard Time

L/N 12/14/2020
GPB 12/15/2020

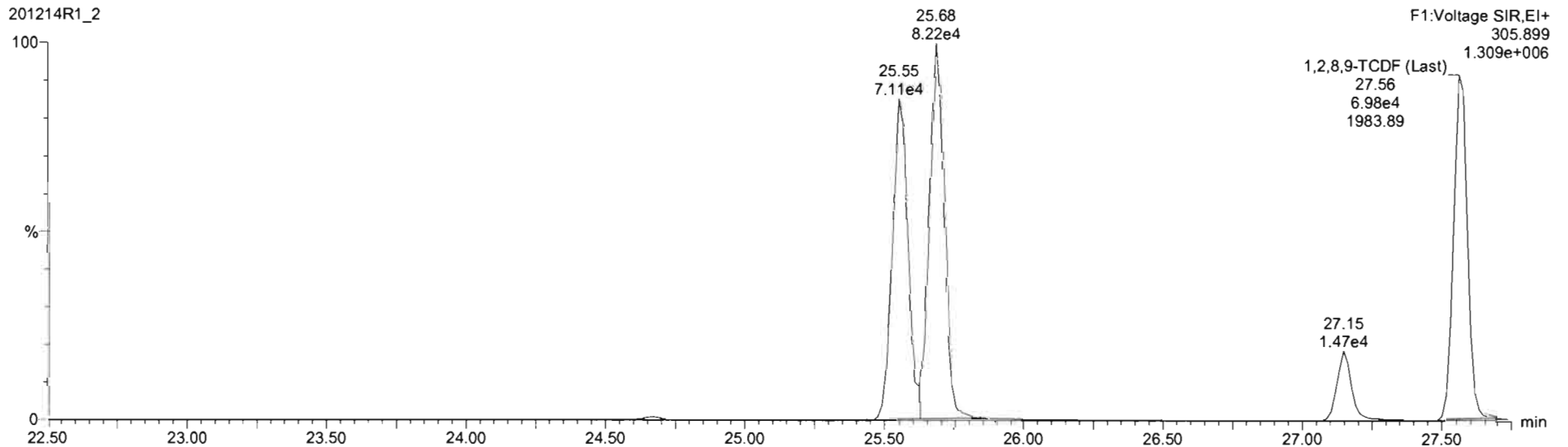
Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDF (First)

201214R1_2



201214R1_2



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

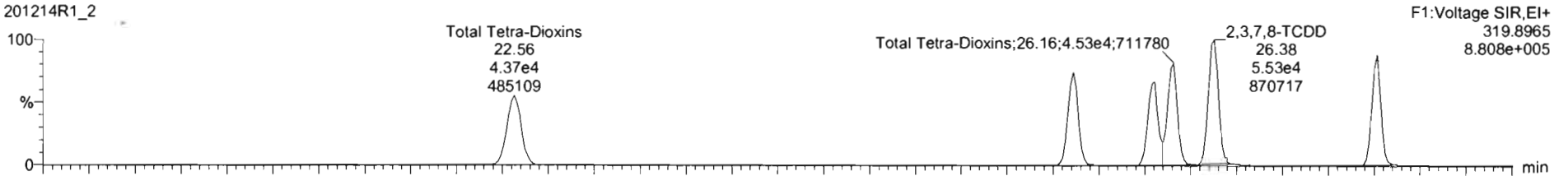
Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

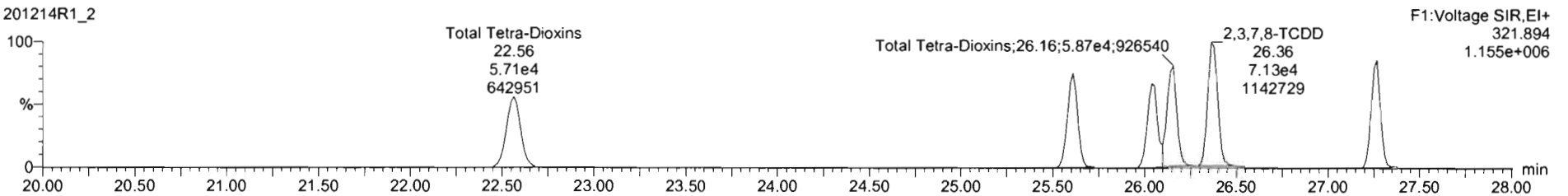
Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD

201214R1_2

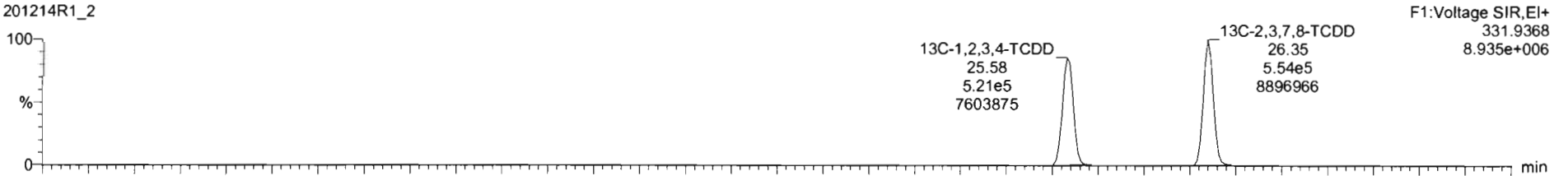


201214R1_2

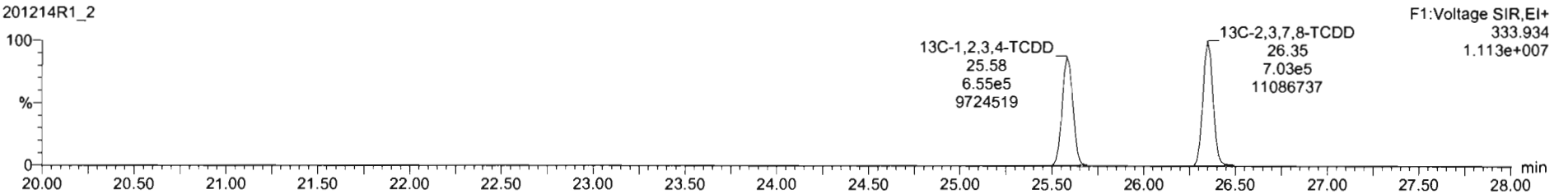


13C-2,3,7,8-TCDD

201214R1_2



201214R1_2



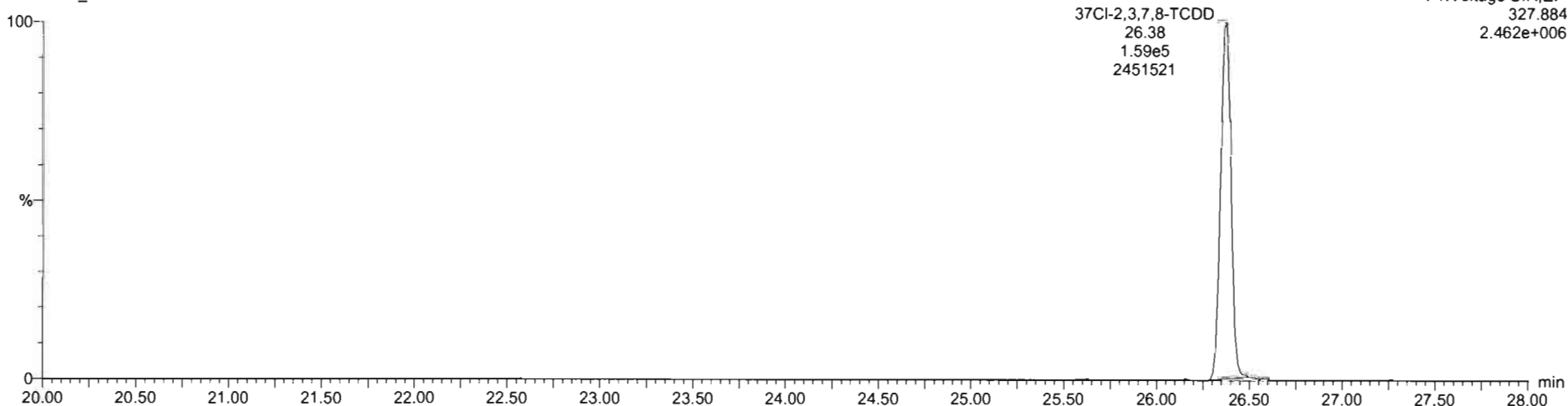
Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

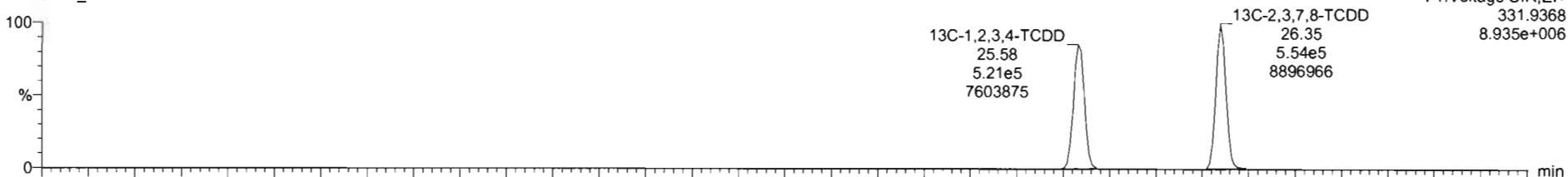
37Cl-2,3,7,8-TCDD

201214R1_2

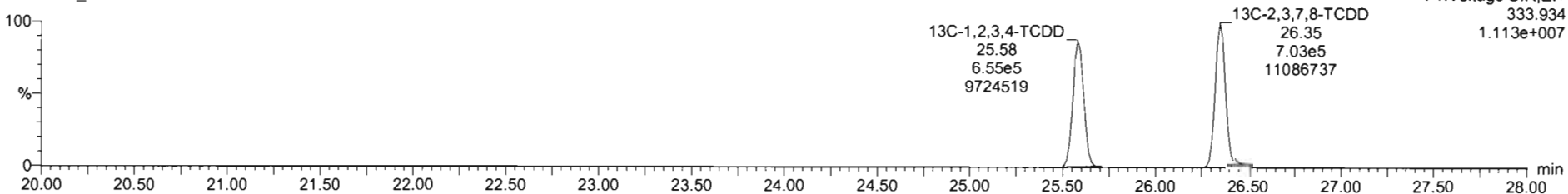


13C-1,2,3,4-TCDD

201214R1_2



201214R1_2



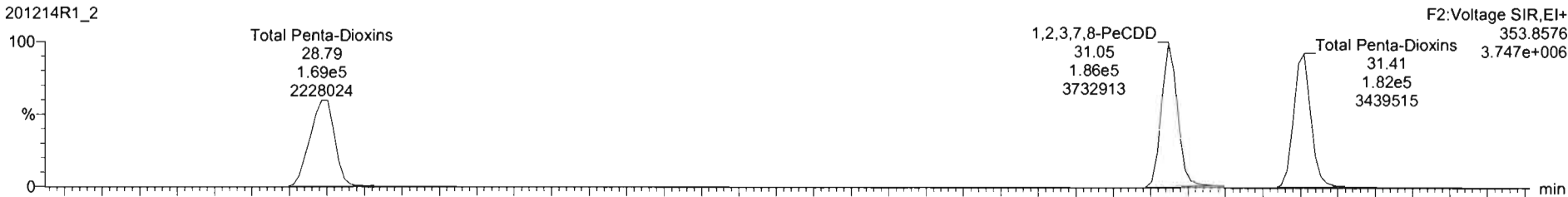
Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

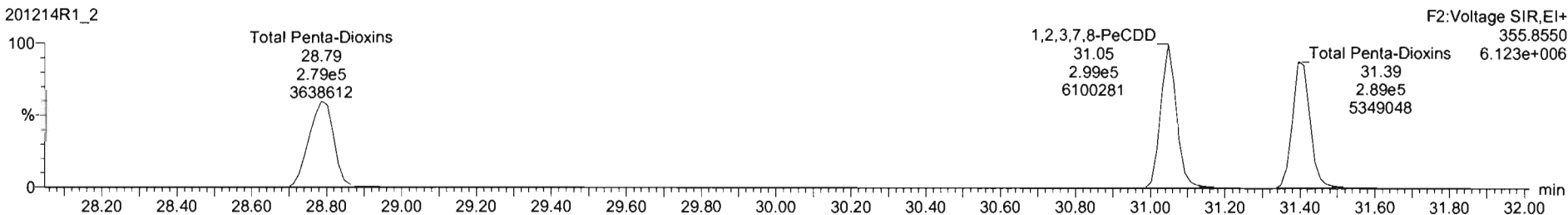
Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,2,3,7,8-PeCDD

201214R1_2

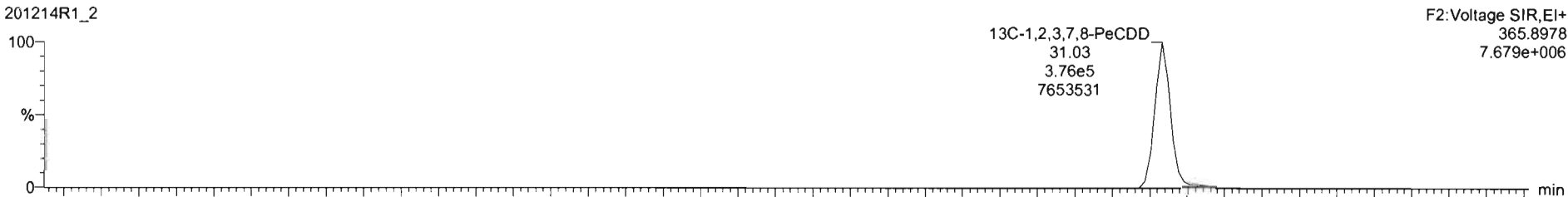


201214R1_2

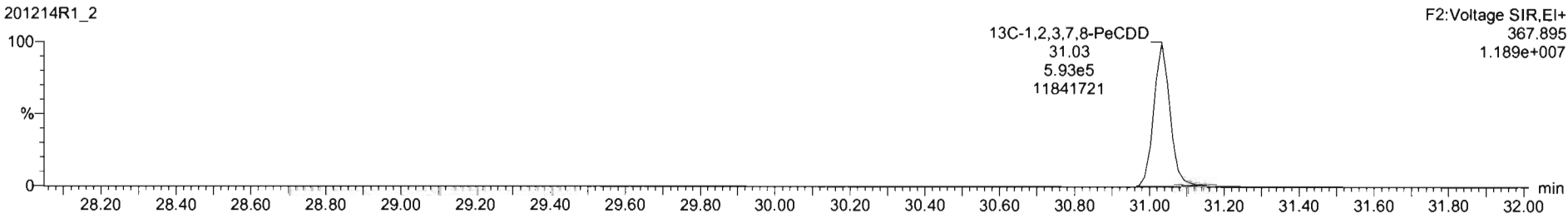


13C-1,2,3,7,8-PeCDD

201214R1_2



201214R1_2

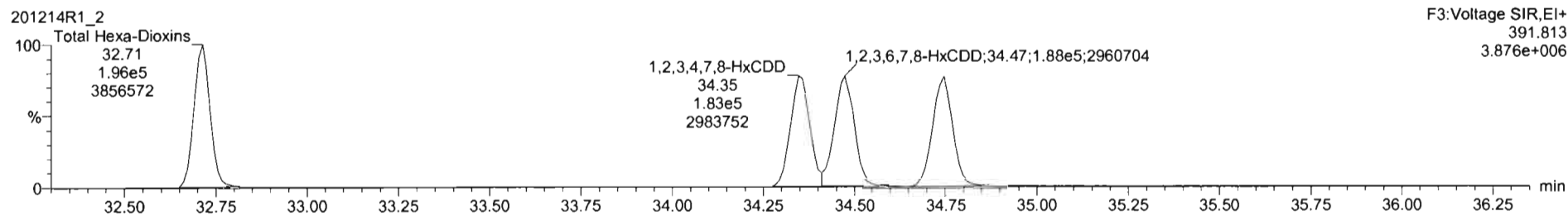
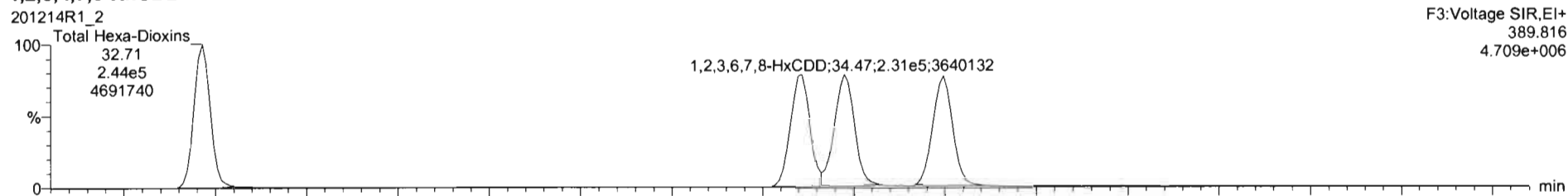


Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

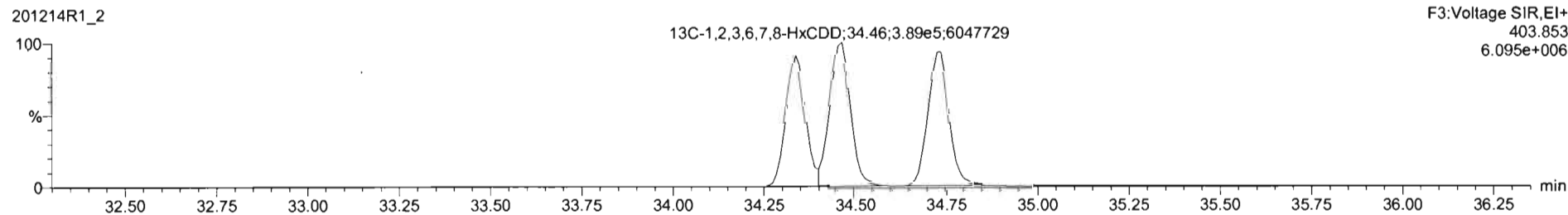
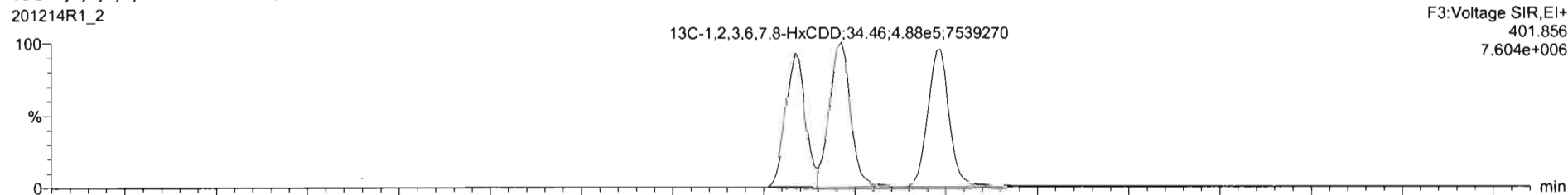
Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time
Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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



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



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

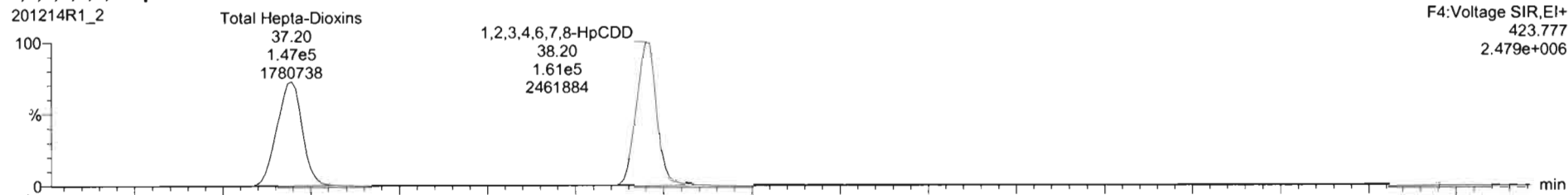
Last Altered: Monday, December 14, 2020 12:09:46 Pacific Standard Time

Printed: Monday, December 14, 2020 12:14:47 Pacific Standard Time

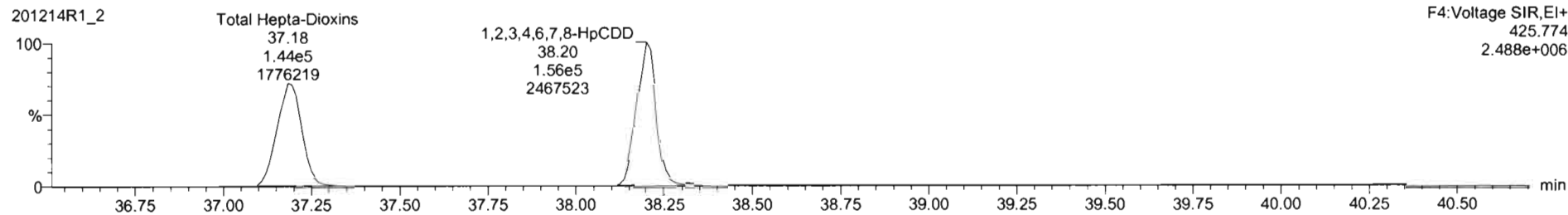
Name: 201214R1_2, Date: 14-Dec-2020, Time: 11:24:15, ID: ST201214R1_2 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201214R1_2

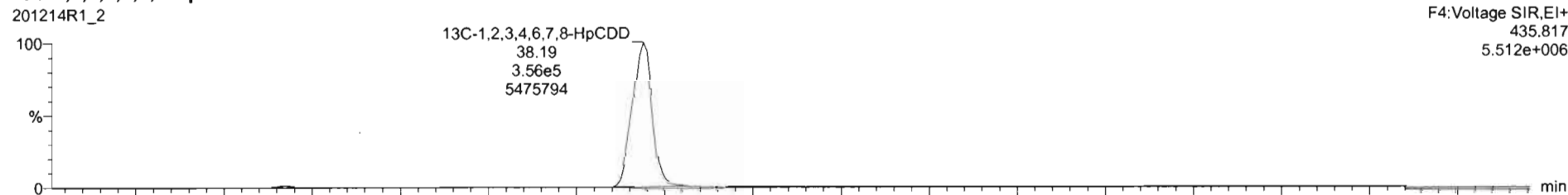


201214R1_2

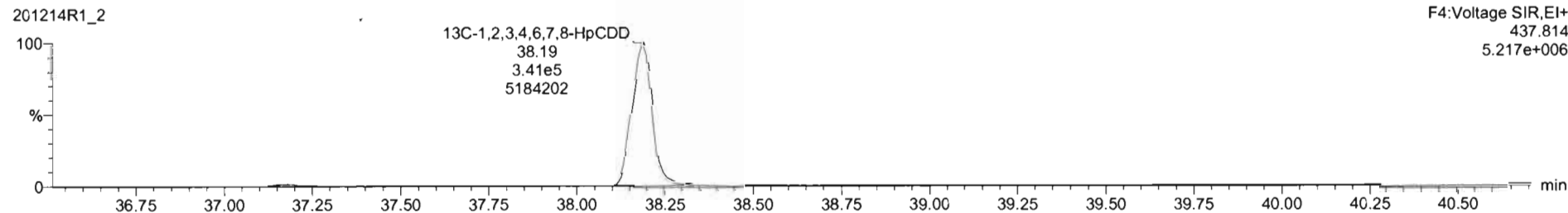


13C-1,2,3,4,6,7,8-HpCDD

201214R1_2



201214R1_2



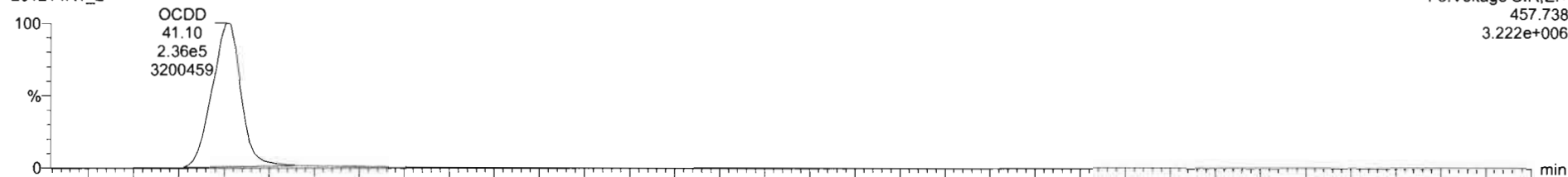
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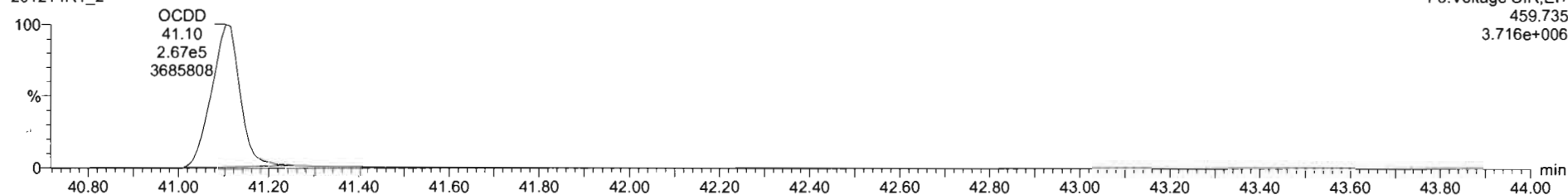
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OCDD

201214R1_2

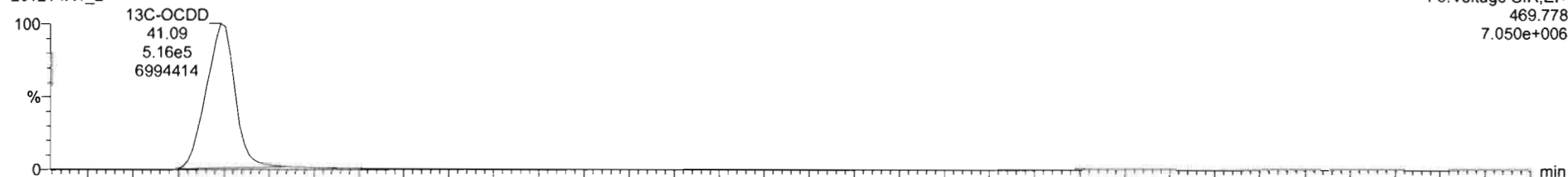


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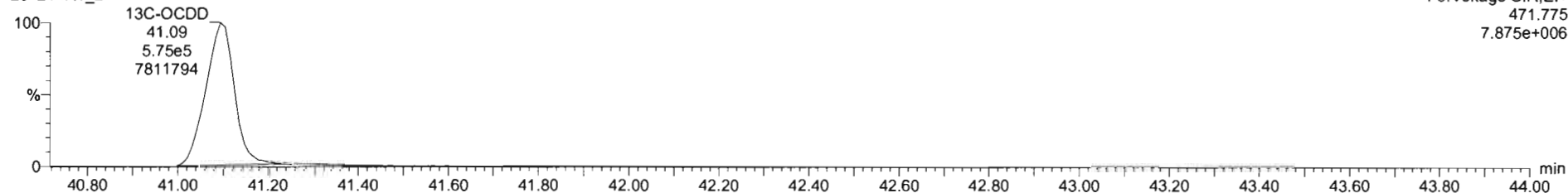


13C-OCDD

201214R1_2



201214R1_2



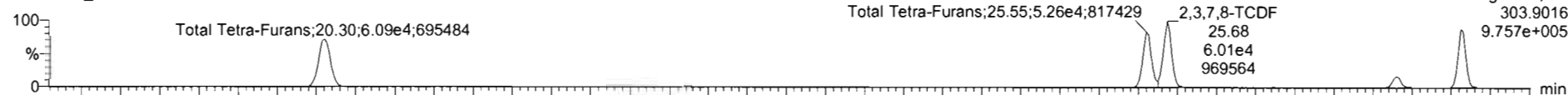
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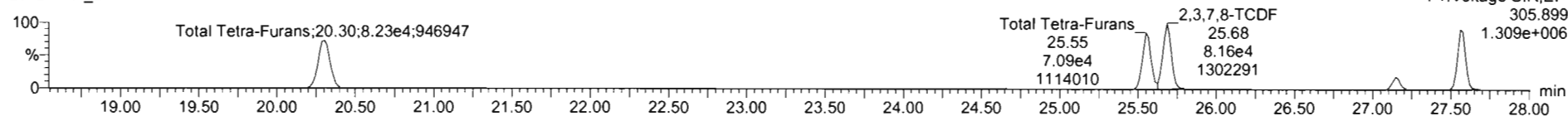
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2,3,7,8-TCDF

201214R1_2

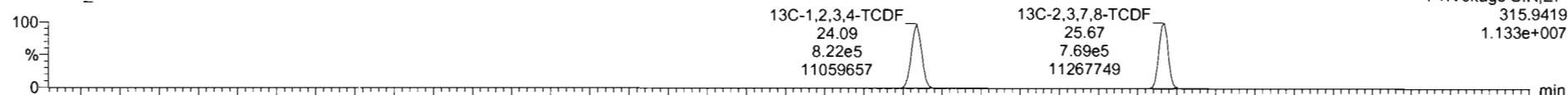


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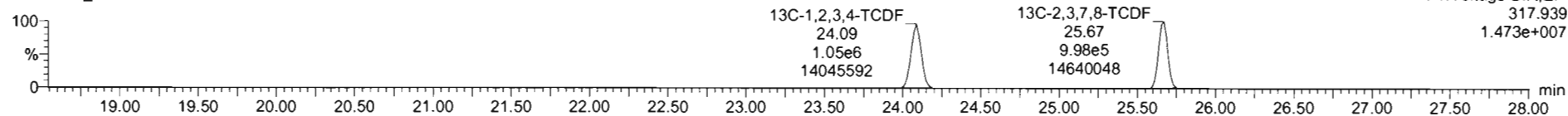


13C-2,3,7,8-TCDF

201214R1_2

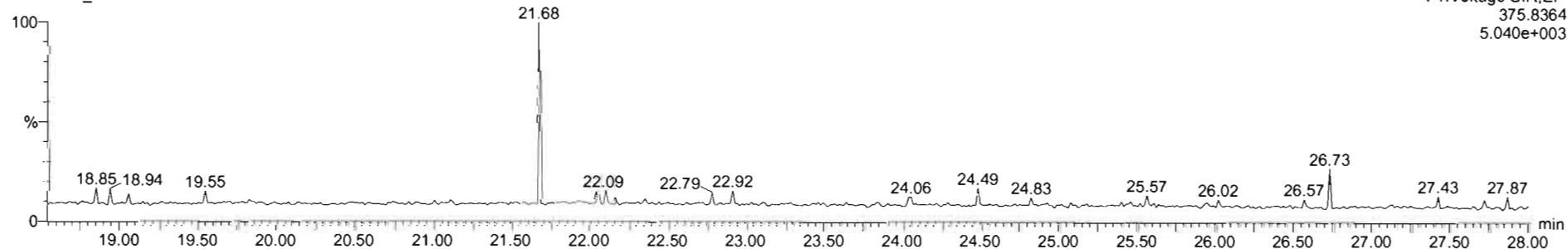


201214R1_2



DPE1

201214R1_2



Dataset: U:\VG12.PRO\Results\201214R1\201214R1_2.qld

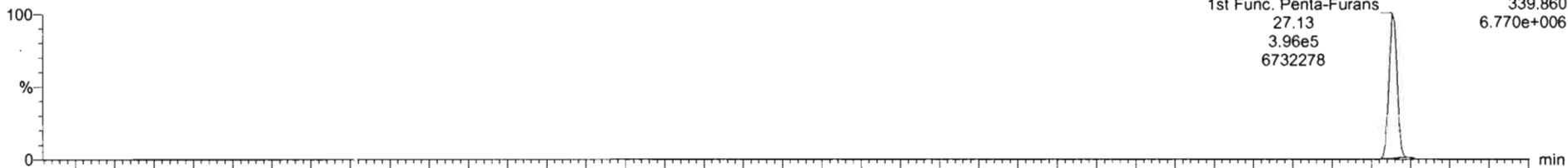
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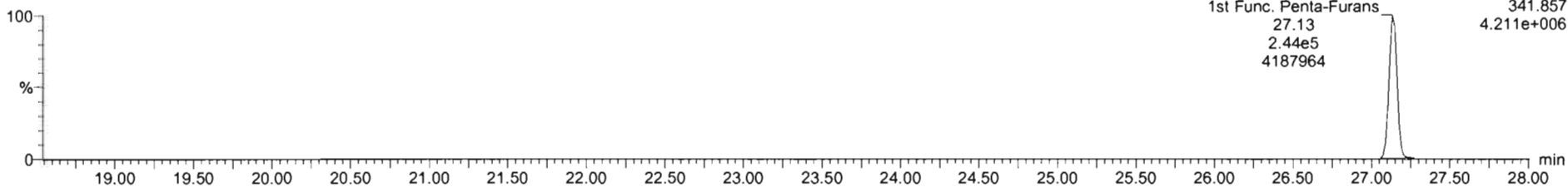
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201214R1_2

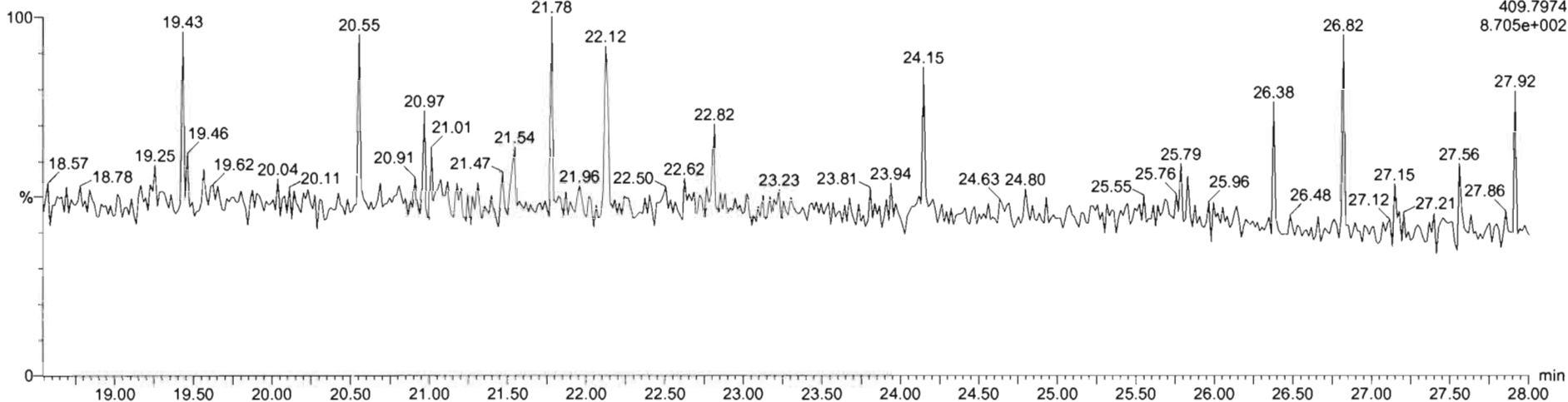


201214R1_2



DPE6

201214R1_2



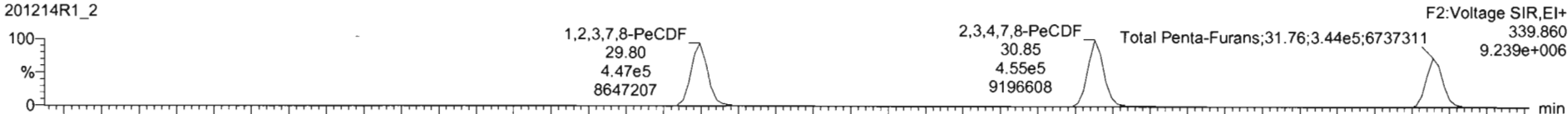
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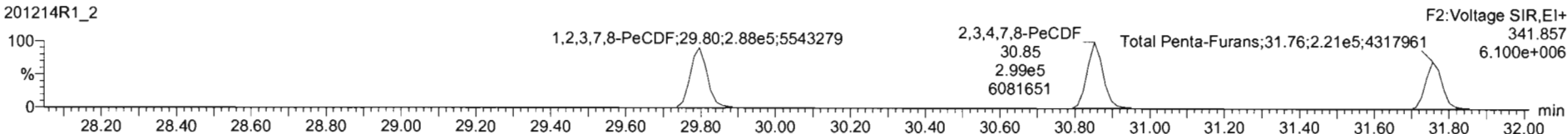
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1,2,3,7,8-PeCDF

201214R1_2

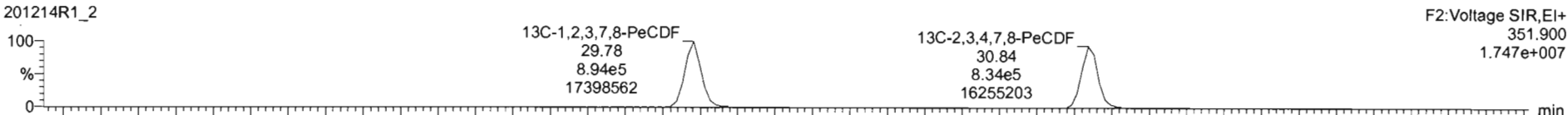


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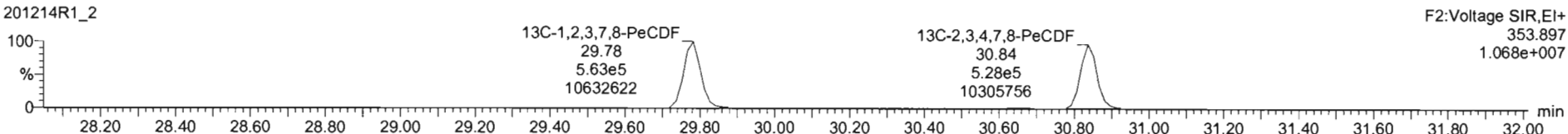


13C-1,2,3,7,8-PeCDF

201214R1_2

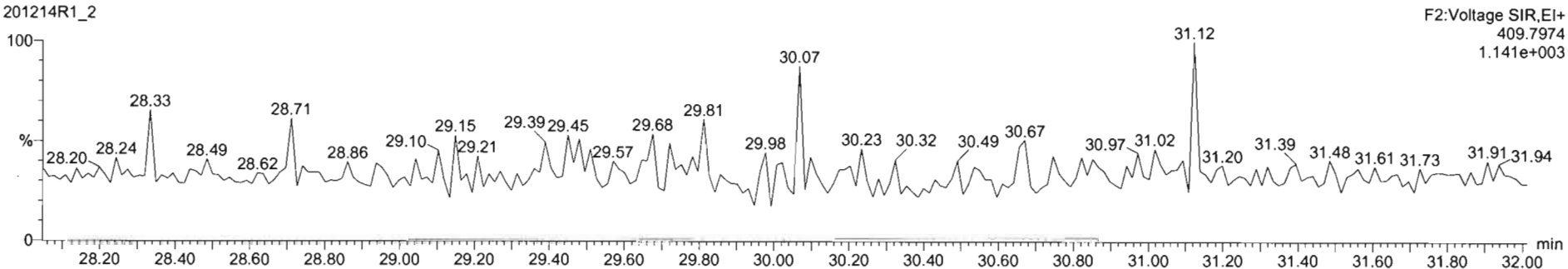


201214R1_2



DPE2

201214R1_2



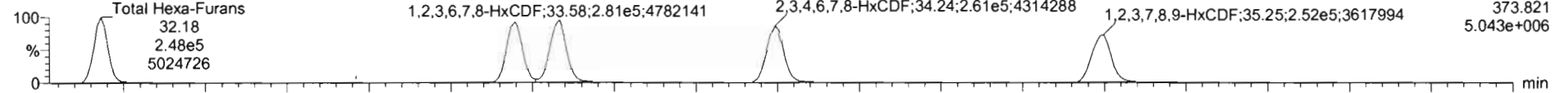
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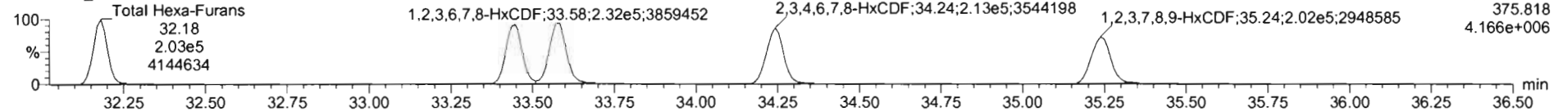
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1,2,3,4,7,8-HxCDF

201214R1_2

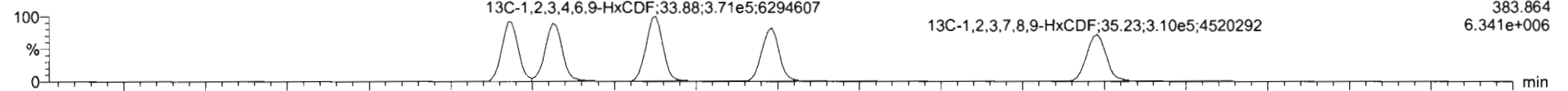


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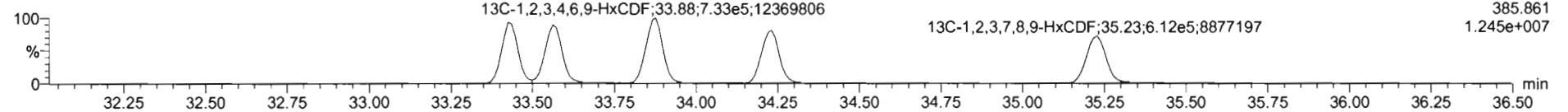


13C-1,2,3,4,7,8-HxCDF

201214R1_2

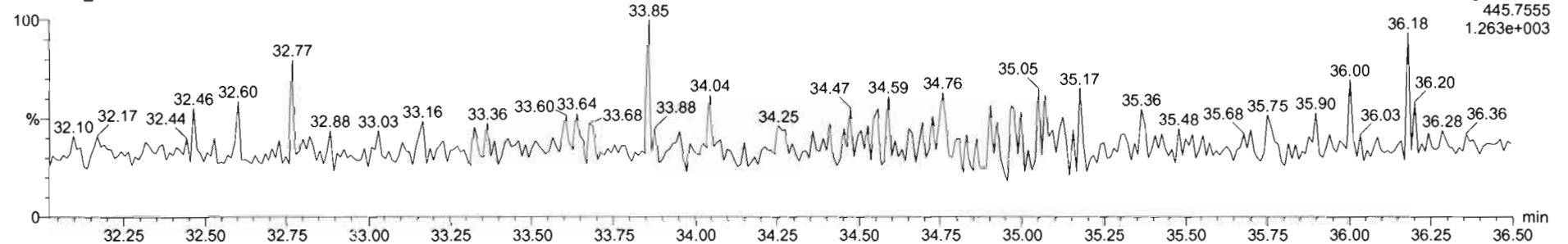


201214R1_2



DPE3

201214R1_2



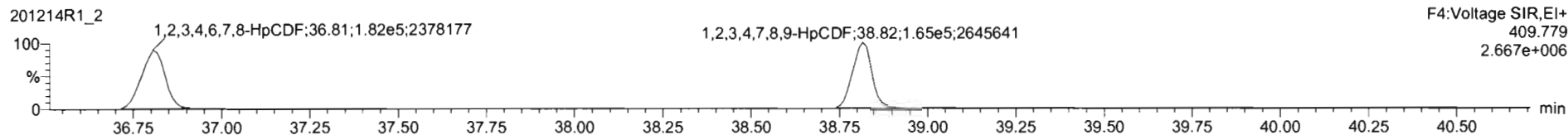
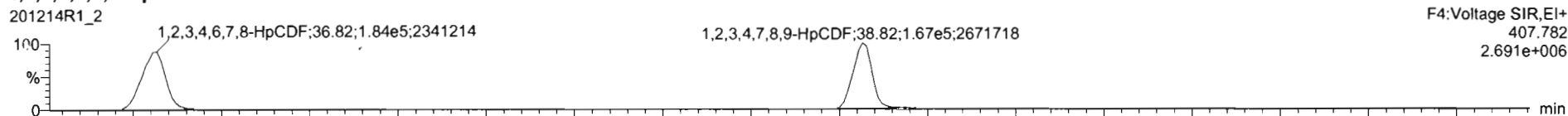
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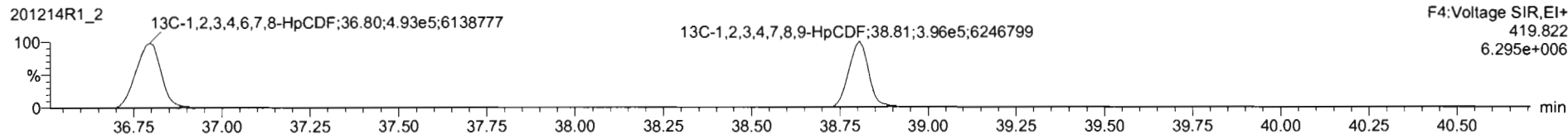
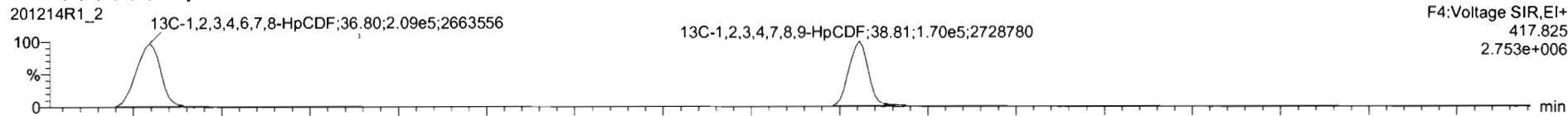
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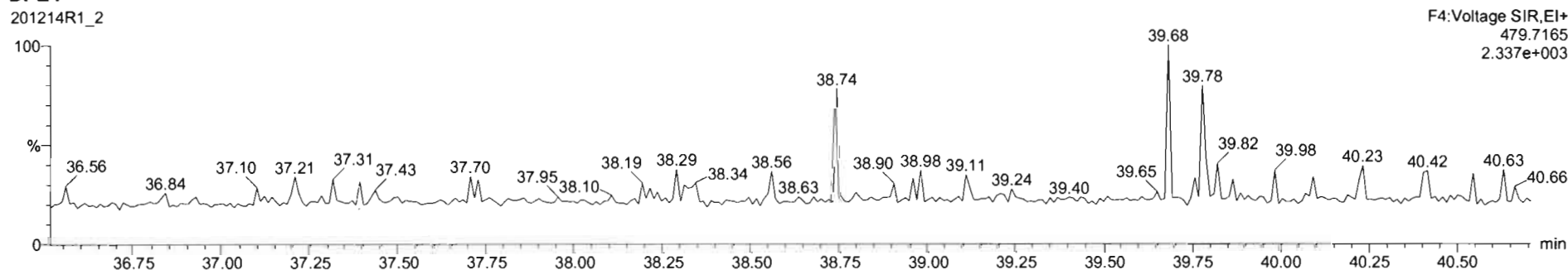
1,2,3,4,6,7,8-HpCDF



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



DPE4



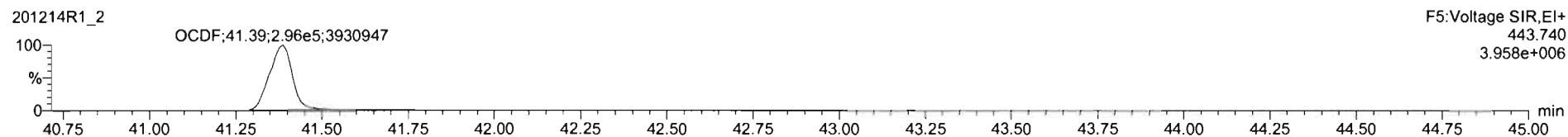
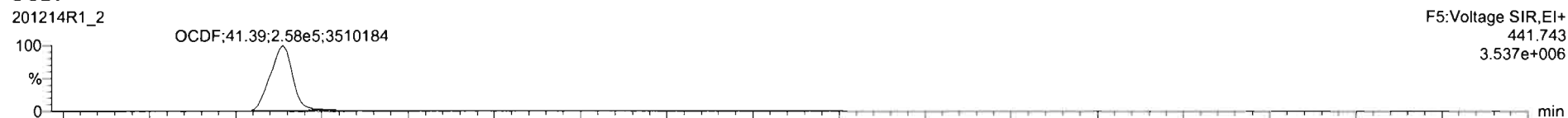
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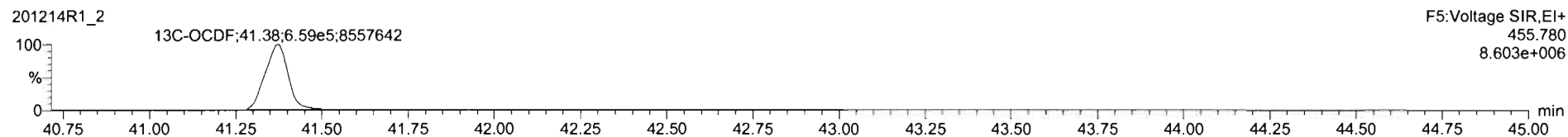
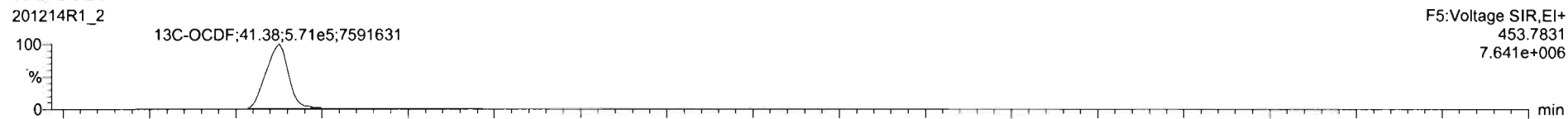
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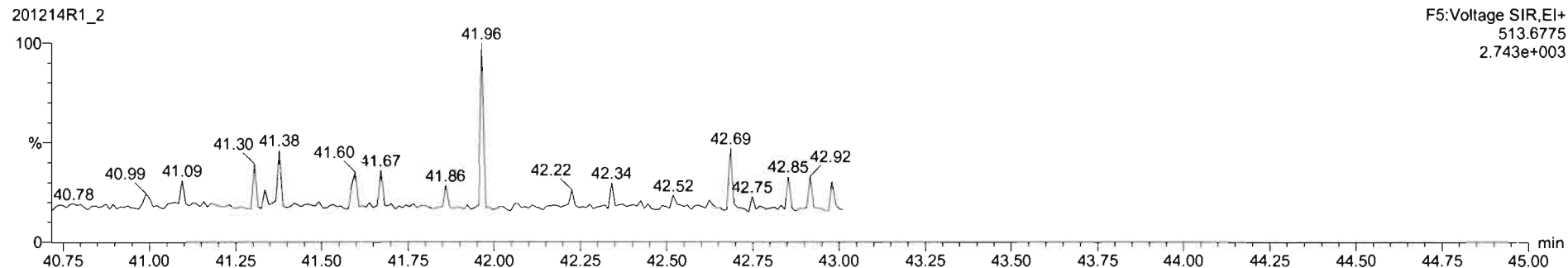
OCDF



13C-OCDF



DPE5

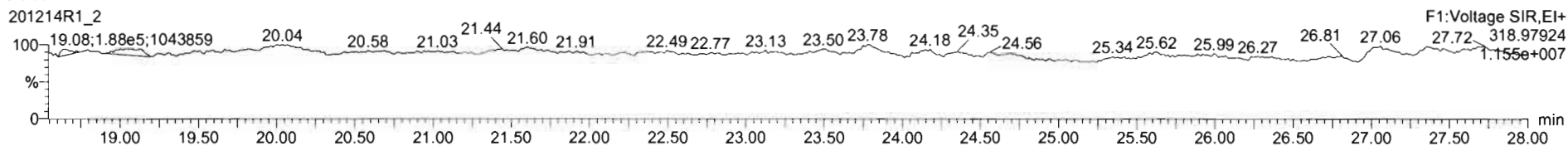


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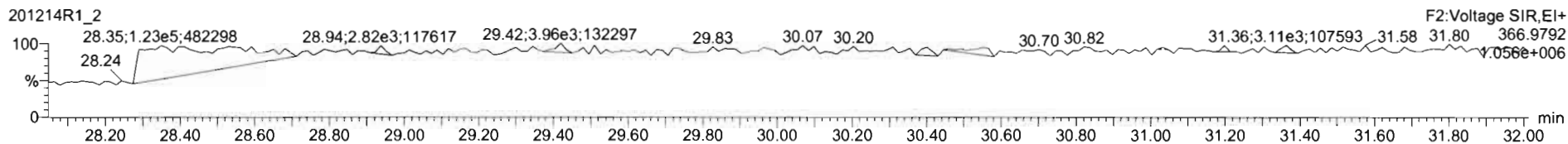
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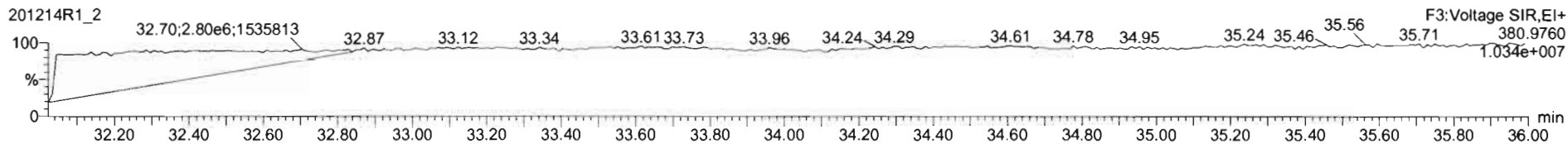
PFK1



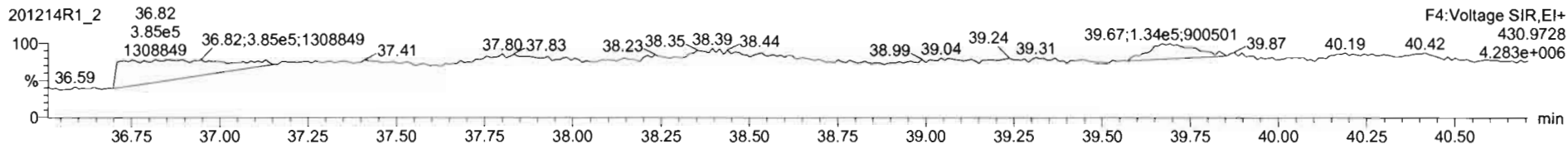
PFK2



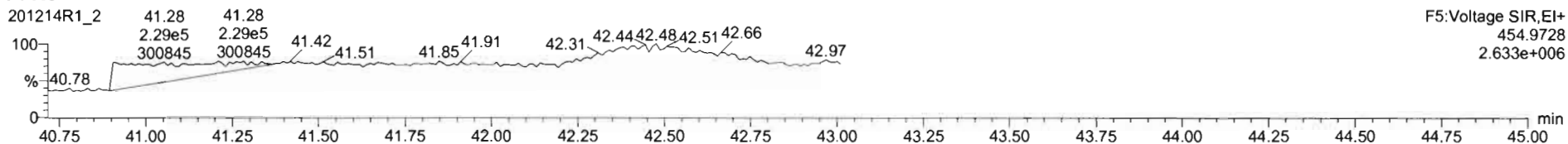
PFK3



PFK4

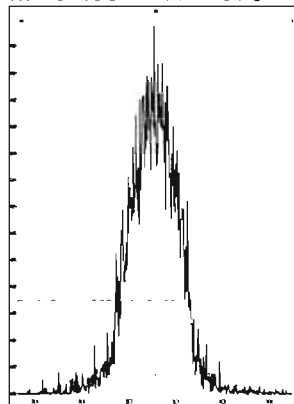


PFK5

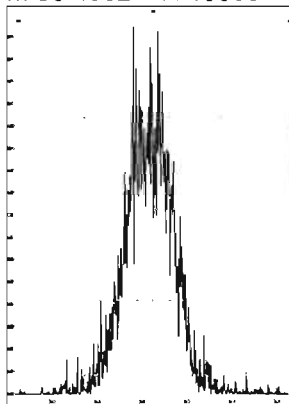


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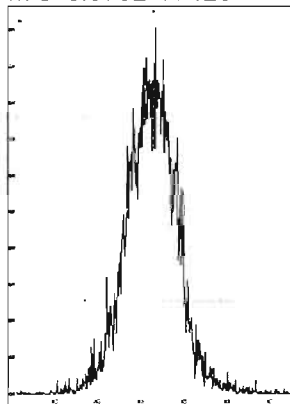
M 292.9824 R 14970



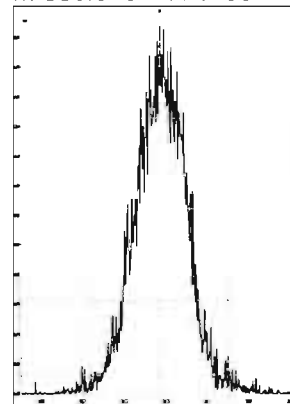
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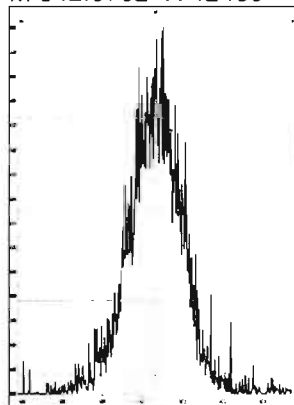
M 318.9792 R 12944



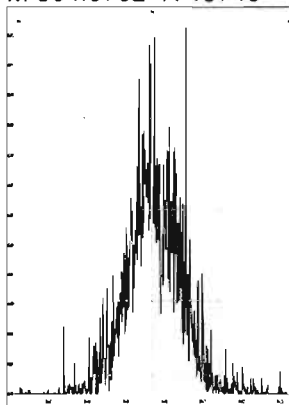
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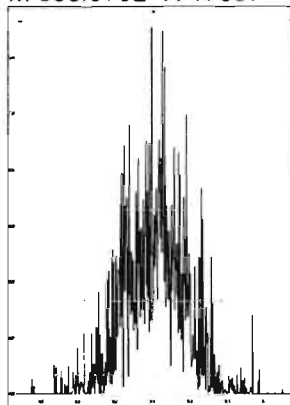
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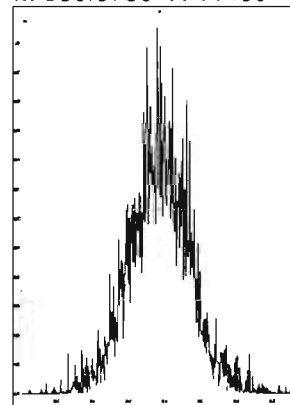
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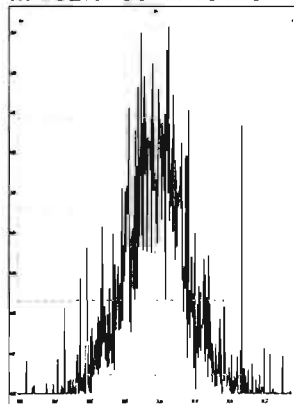
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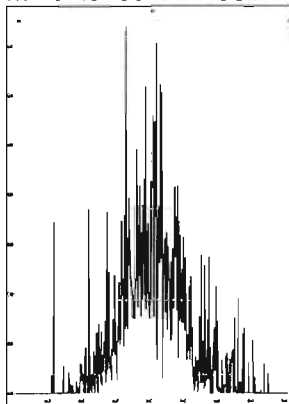
M 380.9760 R 11499



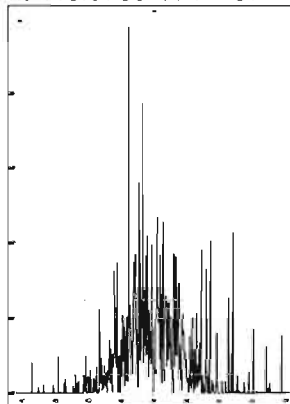
M 392.9760 R 15175



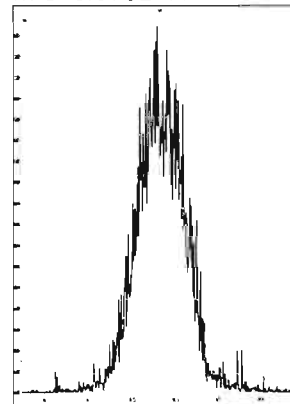
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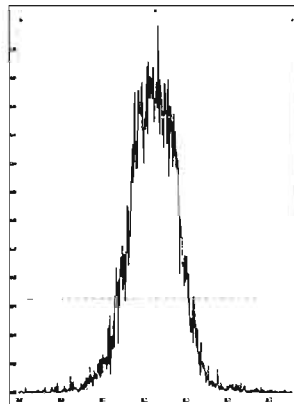
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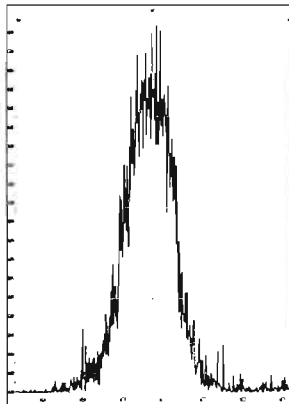
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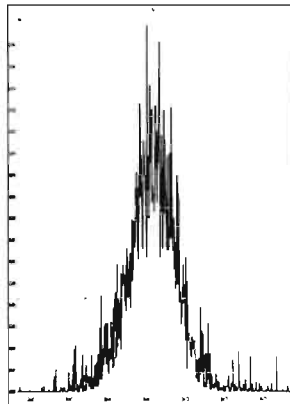
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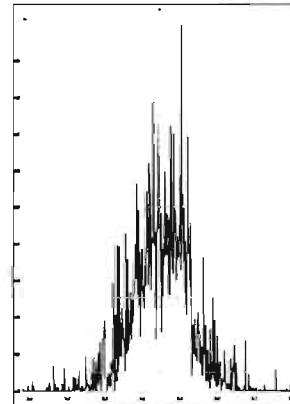
M 342.9792 R 13624



M 354.9792 R 13774

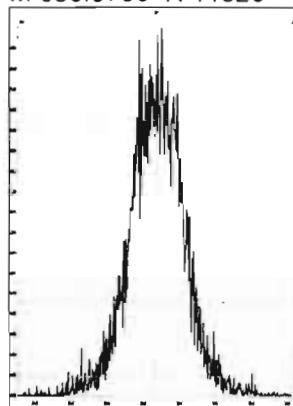


M 366.9792 R 16956

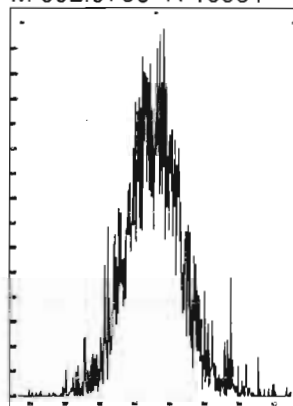


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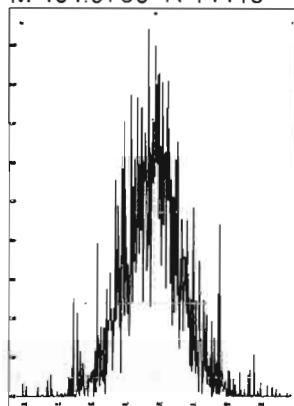
M 380.9760 R 11820



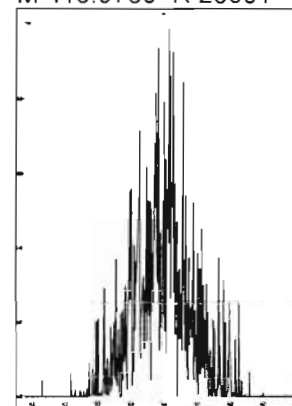
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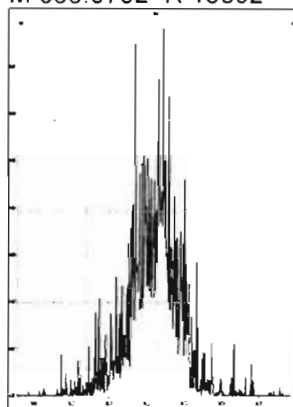
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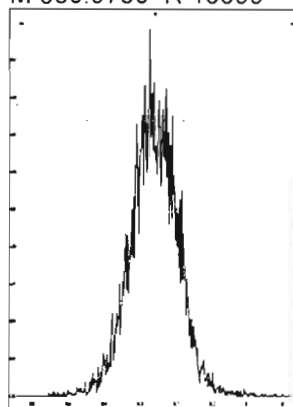
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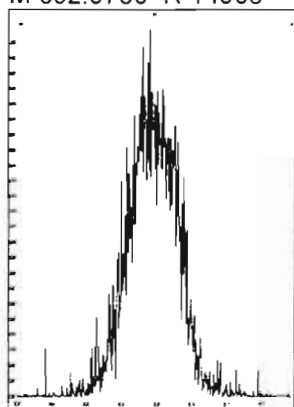
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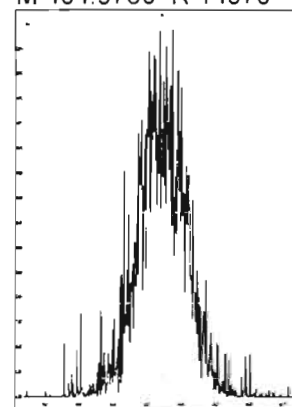
M 380.9760 R 13399



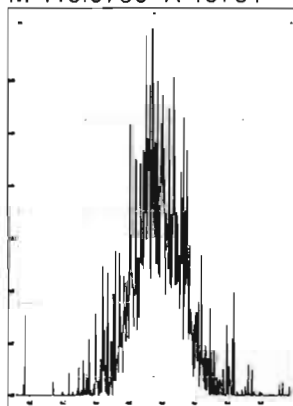
M 392.9760 R 14906



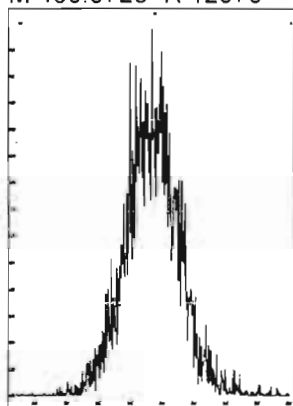
M 404.9760 R 14970



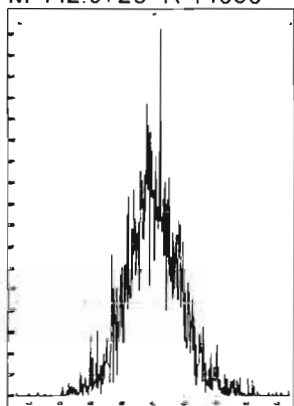
M 416.9760 R 16781



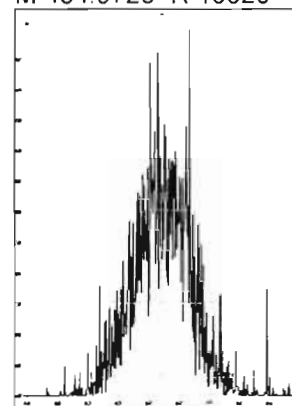
M 430.9728 R 12970



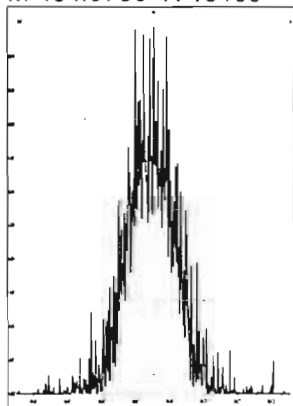
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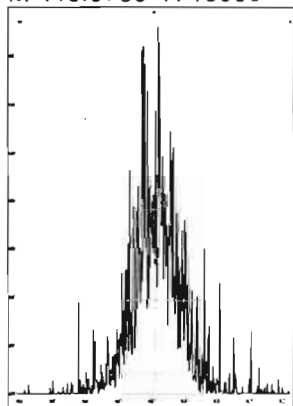
M 454.9728 R 13320



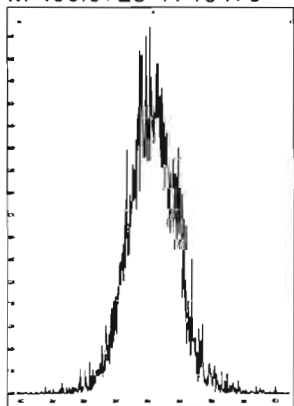
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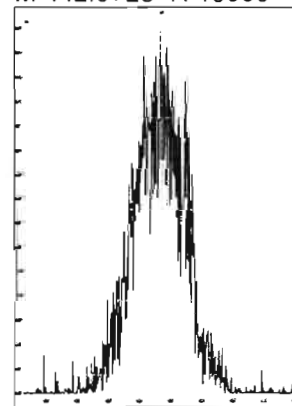
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M 430.9728 R 13476

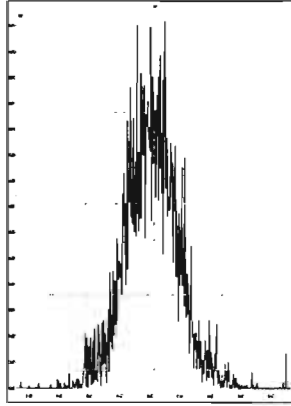


M 442.9728 R 13903

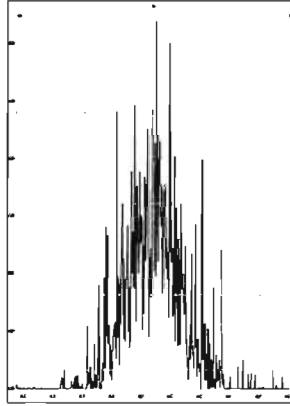


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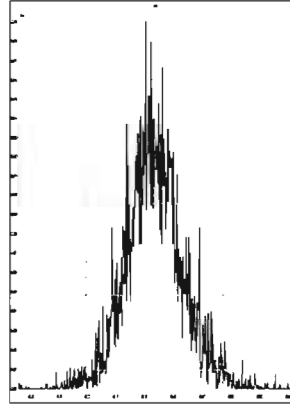
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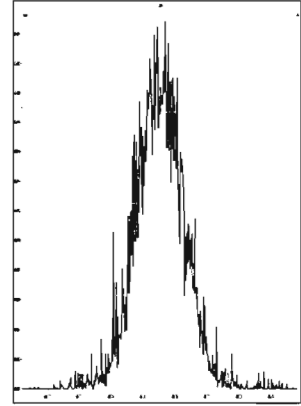
M 466.9728 R 18849



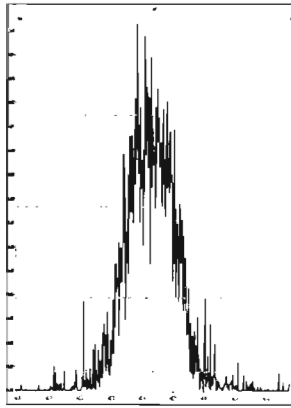
M 480.9696 R 13378



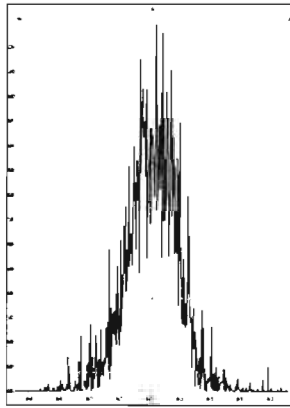
M 430.9728 R 14052



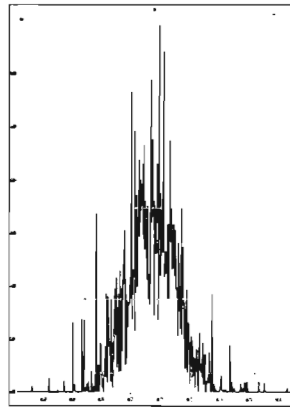
M 442.9728 R 14527



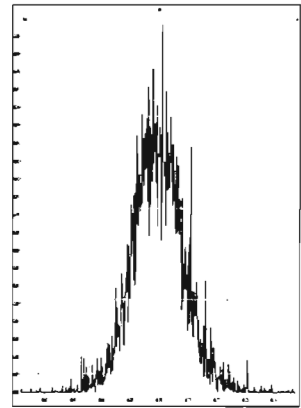
M 454.9728 R 14127



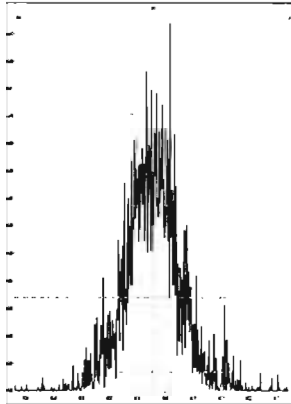
M 466.9728 R 17325



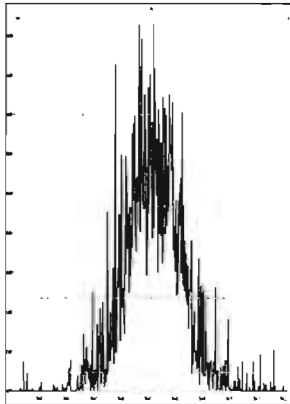
M 480.9696 R 13974



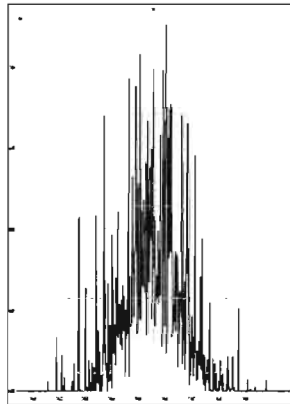
M 492.9696 R 13782



M 504.9696 R 14018



M 516.9697 R 17793



..... CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201215R2-1

Reviewed By: GRB 12/16/2020

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Mass resolution ≥	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1614 1699 429 1613/1668/8280		
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%	<input type="checkbox"/> NA	
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
(ST-Year-Month-Day-VG ID)			- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Comments:		
Correct ICAL referenced?	FIN	<input type="checkbox"/>			
<u>Run Log:</u>					
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA			
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N			
- Bottle position verified?	FIN	<input type="checkbox"/>			

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_2.qld

Last Altered: Wednesday, December 16, 2020 7:02:10 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 8:43:34 AM Pacific Standard Time

HN 12/16/2020
GPB 12/16/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	9.24e4	1.02e6	0.75	NO	0.980	26.37	26.36	NO	1.001	1.001	9.2713	92.7	NO
2	2 1,2,3,7,8-PeCDD	3.63e5	7.89e5	0.63	NO	0.932	31.05	31.03	NO	1.001	1.000	49.405	98.8	NO
3	3 1,2,3,4,7,8-HxCDD	2.93e5	5.61e5	1.23	NO	1.02	34.35	34.34	NO	1.001	1.000	51.256	103	NO
4	4 1,2,3,6,7,8-HxCDD	2.89e5	6.54e5	1.23	NO	0.902	34.47	34.46	NO	1.001	1.000	48.967	97.9	NO
5	5 1,2,3,7,8,9-HxCDD	2.93e5	6.39e5	1.22	NO	0.954	34.72	34.74	NO	1.000	1.001	48.046	96.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.23e5	5.16e5	1.01	NO	0.918	38.19	38.19	NO	1.000	1.000	47.018	94.0	NO
7	7 OCDD	3.90e5	8.97e5	0.87	NO	0.866	41.09	41.10	NO	1.000	1.000	100.43	100	NO
8	8 2,3,7,8-TCDF	9.50e4	1.28e6	0.73	NO	0.848	25.66	25.67	NO	1.000	1.001	8.7235	87.2	NO
9	9 1,2,3,7,8-PeCDF	4.99e5	1.07e6	1.55	NO	0.960	29.77	29.78	NO	1.000	1.000	48.380	96.8	NO
10	10 2,3,4,7,8-PeCDF	5.14e5	9.94e5	1.53	NO	1.07	30.86	30.84	NO	1.001	1.000	48.412	96.8	NO
11	11 1,2,3,4,7,8-HxCDF	3.21e5	6.84e5	1.21	NO	0.986	33.43	33.44	NO	1.000	1.001	47.611	95.2	NO
12	12 1,2,3,6,7,8-HxCDF	3.37e5	6.78e5	1.22	NO	1.04	33.57	33.56	NO	1.001	1.000	47.907	95.8	NO
13	13 2,3,4,6,7,8-HxCDF	3.18e5	6.48e5	1.23	NO	1.02	34.23	34.23	NO	1.001	1.001	48.053	96.1	NO
14	14 1,2,3,7,8,9-HxCDF	2.73e5	5.75e5	1.22	NO	0.991	35.23	35.23	NO	1.000	1.000	47.936	95.9	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.41e5	4.78e5	1.00	NO	1.05	36.80	36.80	NO	1.000	1.000	48.078	96.2	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.33e5	4.07e5	1.00	NO	1.18	38.81	38.81	NO	1.000	1.000	48.626	97.3	NO
17	17 OCDF	3.94e5	9.05e5	0.87	NO	0.896	41.39	41.39	NO	1.000	1.000	97.235	97.2	NO
18	18 13C-2,3,7,8-TCDD	1.02e6	9.44e5	0.76	NO	1.06	26.34	26.33	NO	1.030	1.030	101.93	102	NO
19	19 13C-1,2,3,7,8-PeCDD	7.89e5	9.44e5	0.63	NO	0.785	31.17	31.02	NO	1.219	1.213	106.46	106	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.61e5	7.74e5	1.27	NO	0.621	34.32	34.33	NO	1.014	1.014	116.66	117	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.54e5	7.74e5	1.27	NO	0.734	34.44	34.45	NO	1.017	1.018	115.13	115	NO
22	22 13C-1,2,3,7,8,9-HxCDD	6.39e5	7.74e5	1.26	NO	0.723	34.72	34.71	NO	1.026	1.025	114.26	114	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.16e5	7.74e5	1.04	NO	0.568	38.22	38.18	NO	1.129	1.128	117.43	117	NO
24	24 13C-OCDD	8.97e5	7.74e5	0.89	NO	0.496	41.15	41.08	NO	1.216	1.214	233.52	117	NO
25	25 13C-2,3,7,8-TCDF	1.28e6	1.30e6	0.76	NO	0.919	25.64	25.65	NO	1.003	1.003	107.11	107	NO
26	26 13C-1,2,3,7,8-PeCDF	1.07e6	1.30e6	1.55	NO	0.715	29.89	29.77	NO	1.169	1.164	115.19	115	NO
27	27 13C-2,3,4,7,8-PeCDF	9.94e5	1.30e6	1.59	NO	0.689	30.97	30.84	NO	1.212	1.206	110.71	111	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.84e5	7.74e5	0.49	NO	0.873	33.42	33.42	NO	0.987	0.987	101.21	101	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.78e5	7.74e5	0.51	NO	0.933	33.55	33.55	NO	0.991	0.991	93.788	93.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.48e5	7.74e5	0.50	NO	0.843	34.22	34.21	NO	1.011	1.010	99.333	99.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.75e5	7.74e5	0.51	NO	0.780	35.22	35.22	NO	1.040	1.040	95.269	95.3	NO

Dataset: U:\VG12.PRO\Results\201215R2\201215R2_2.qld

Last Altered: Wednesday, December 16, 2020 7:02:10 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 8:43:34 AM Pacific Standard Time

Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

	# 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	4.78e5	7.74e5	0.42	NO	0.726	36.79	36.78	NO	1.087	1.087	84.936	84.9	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.07e5	7.74e5	0.43	NO	0.491	38.80	38.79	NO	1.146	1.146	107.04	107	NO
34	34 13C-OCDF	9.05e5	7.74e5	0.87	NO	0.565	41.37	41.38	NO	1.222	1.222	206.81	103	NO
35	35 37Cl-2,3,7,8-TCDD	1.22e5	9.44e5			1.22	26.33	26.36	NO	1.030	1.031	10.599	106	NO
36	36 13C-1,2,3,4-TCDD	9.44e5	9.44e5	0.77	NO	1.00	25.64	25.57	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.30e6	1.30e6	0.77	NO	1.00	24.13	24.07	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	7.74e5	7.74e5	0.50	NO	1.00	33.92	33.85	NO	1.000	1.000	100.00	100	YES OK

Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 6:57:06 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 6:57:13 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Compound name: 2,3,7,8-TCDD

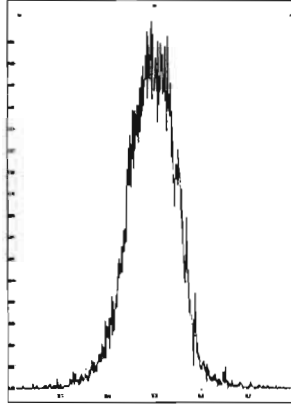
	Name	ID	Acq.Date	Acq.Time
1	201215R2_1	SOLVENT BLANK	15-Dec-20	17:05:18
2	201215R2_2	ST201215R2_1 1613 CS3 20L0301	15-Dec-20	17:49:34
3	201215R2_3	2002435-12 USMPDI-022SC-A-04-05-201108 ...	15-Dec-20	18:33:52
4	201215R2_4	2002435-13 USMPDI-022SC-A-05-06-201108 ...	15-Dec-20	19:18:07
5	201215R2_5	2002535-01 USMPDI-009SC-A-03-04-201112 ...	15-Dec-20	20:02:21
6	201215R2_6	2002535-02 USMPDI-009SC-A-04-05-201112 ...	15-Dec-20	20:46:37
7	201215R2_7	2002535-03 USMPDI-009SC-A-05-06-201112 ...	15-Dec-20	21:30:52
8	201215R2_8	2002535-04 USMPDI-009SC-A-06-07-201112 ...	15-Dec-20	22:15:06
9	201215R2_9	2002535-05 USMPDI-1009SC-A-04-05-20111...	15-Dec-20	22:59:21
10	201215R2_10	2002493-01 USMPDI-012SC-A-01-02-201109 ...	15-Dec-20	23:43:35
11	(A) 201215R2_11	2002493-02 USMPDI-012SC-A-02-03-201109 ...	16-Dec-20	00:27:50

(A) Instrument paused end rez check manually processed HN 12/16/2020

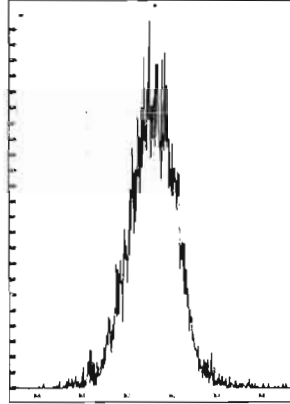
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, December 15, 2020 16:56:12 Pacific Standard Time

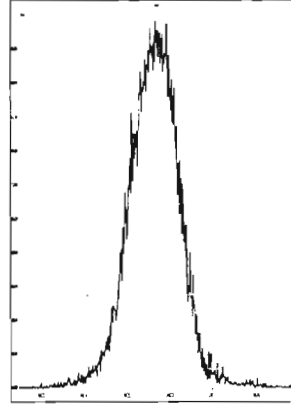
M 292.9824 R 12689



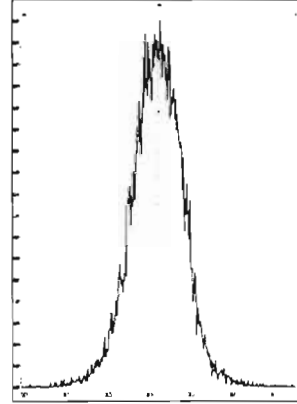
M 304.9824 R 13160



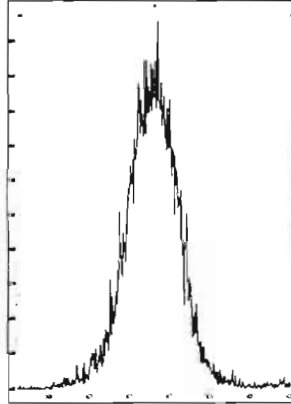
M 318.9792 R 13440



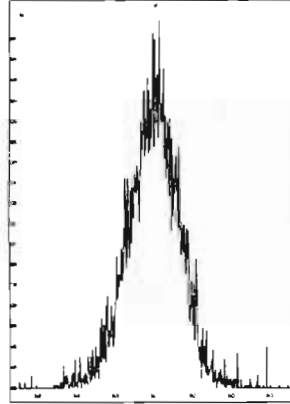
M 330.9792 R 11734



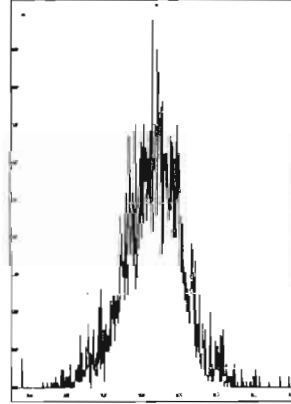
M 342.9792 R 11211



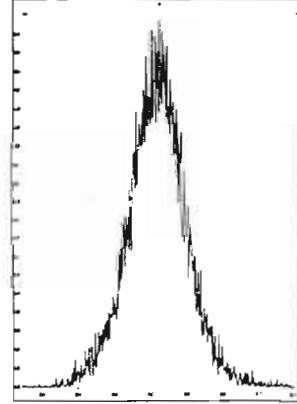
M 354.9792 R 13366



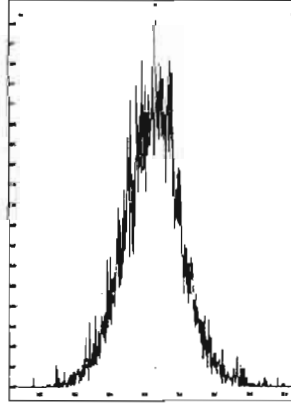
M 366.9792 R 13369



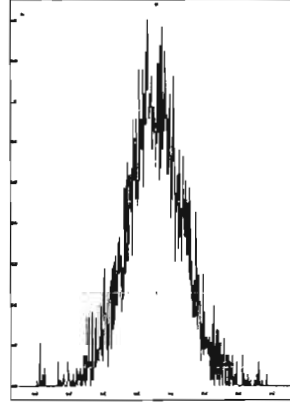
M 380.9760 R 11060



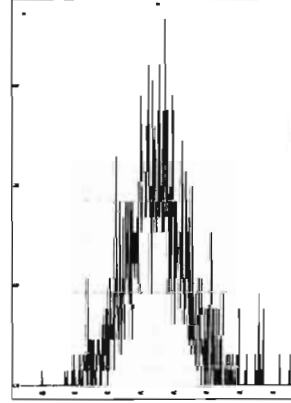
M 392.9760 R 10461



M 404.9760 R 11736



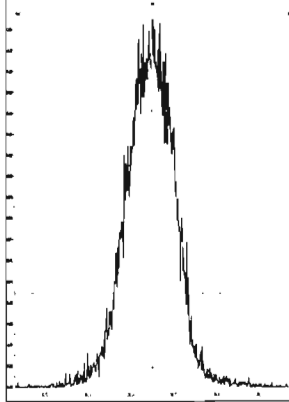
M 416.9760 R 14126



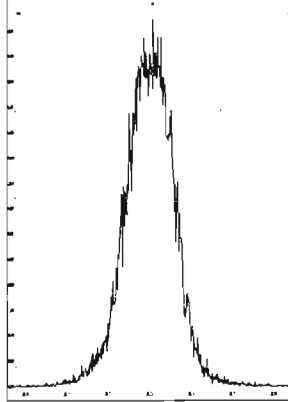
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, December 15, 2020 16:56:56 Pacific Standard Time

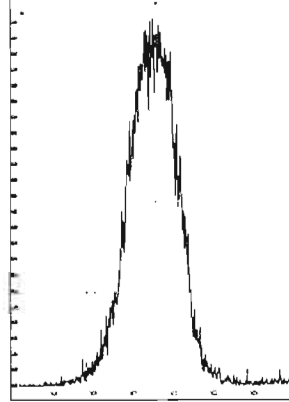
M 318.9792 R 13088



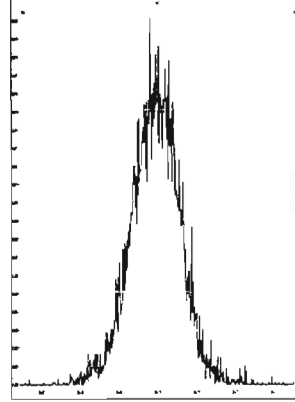
M 330.9792 R 12565



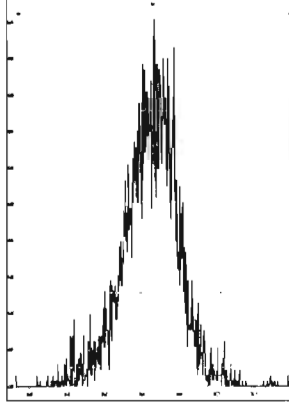
M 342.9792 R 12690



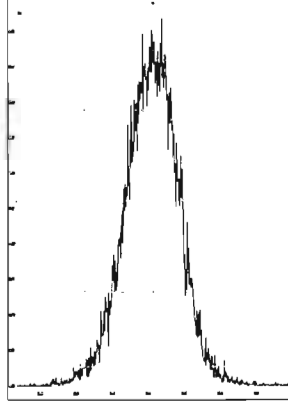
M 354.9792 R 13444



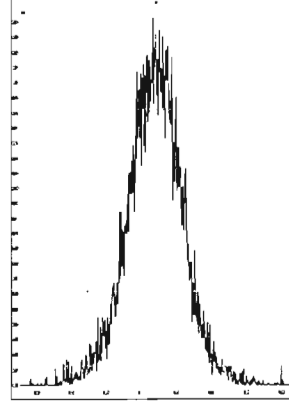
M 366.9792 R 12438



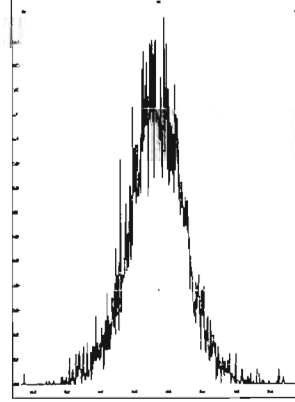
M 380.9760 R 11572



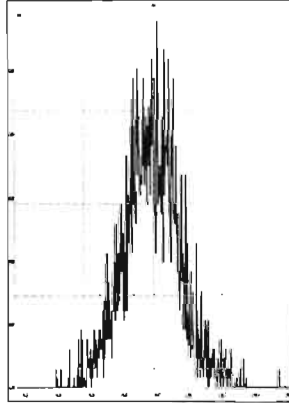
M 392.9760 R 11958



M 404.9760 R 11110



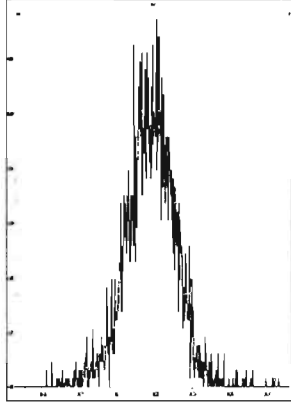
M 416.9760 R 13737



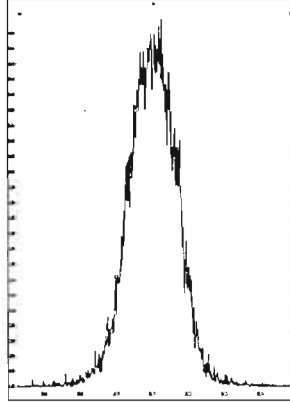
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Tuesday, December 15, 2020 16:57:40 Pacific Standard Time

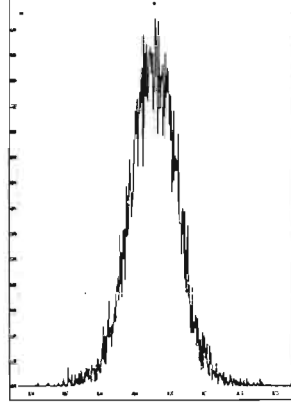
M 366.9792 R 17002



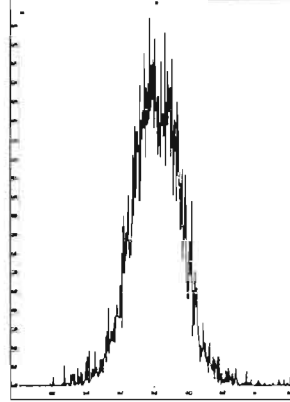
M 380.9760 R 13369



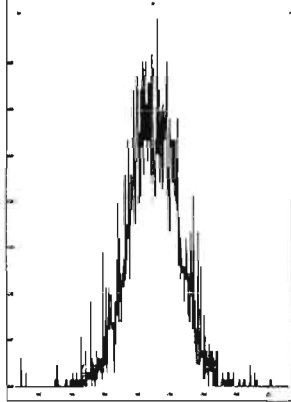
M 392.9760 R 12818



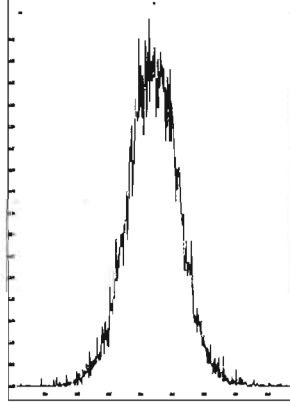
M 404.9760 R 13158



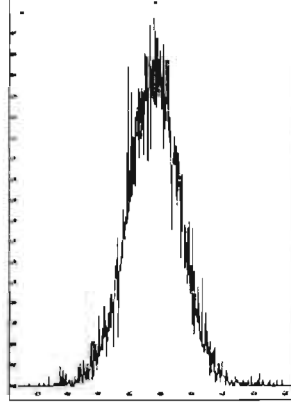
M 416.9760 R 13659



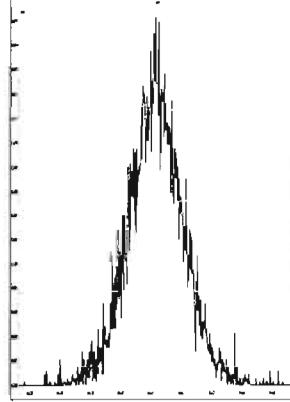
M 430.9728 R 11262



M 442.9728 R 11847



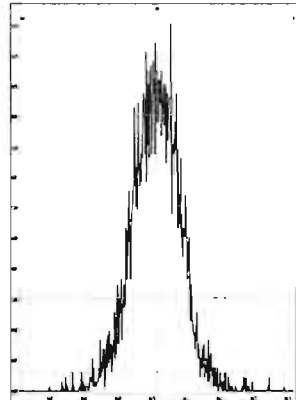
M 454.9728 R 12316



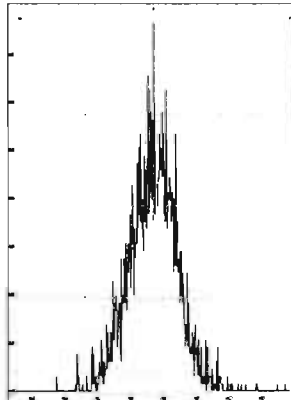
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Tuesday, December 15, 2020 16:58:31 Pacific Standard Time

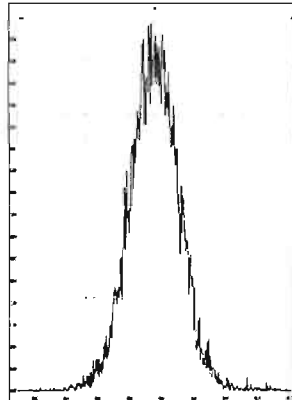
M 404.9760 R 13370



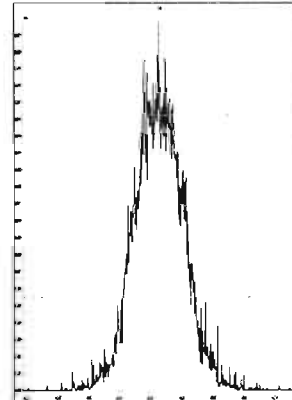
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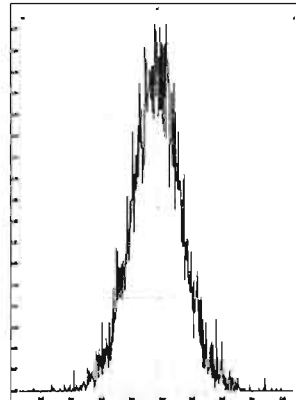
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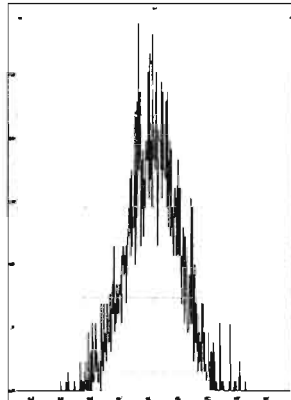
M 442.9728 R 12194



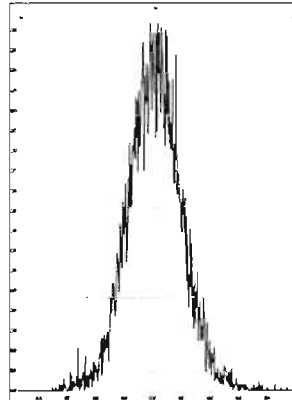
M 454.9728 R 13086



M 466.9728 R 12626



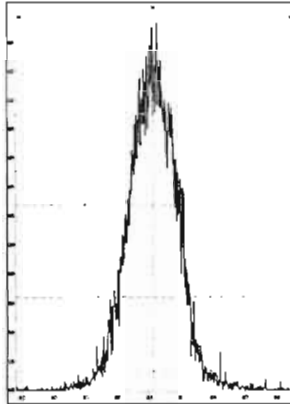
M 480.9696 R 11794



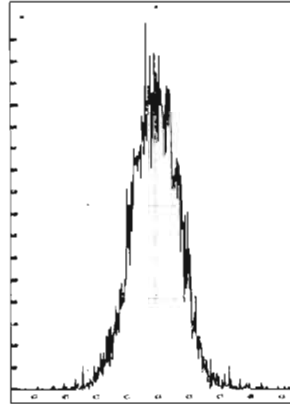
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Printed: Tuesday, December 15, 2020 16:59:22 Pacific Standard Time

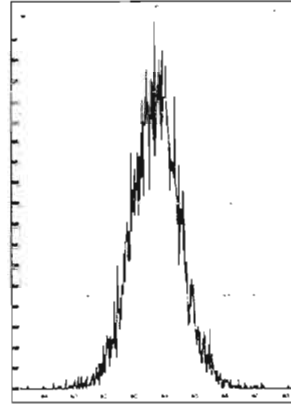
M 430.9728 R 12755



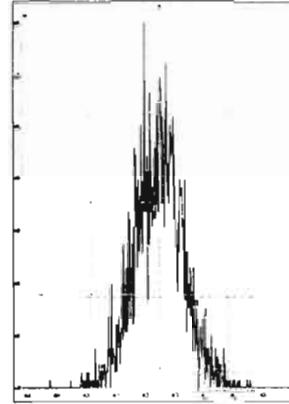
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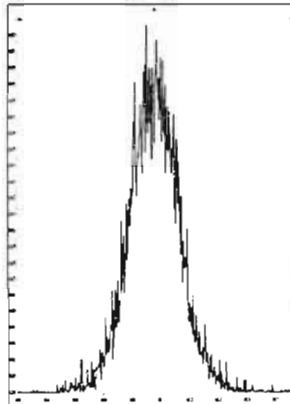
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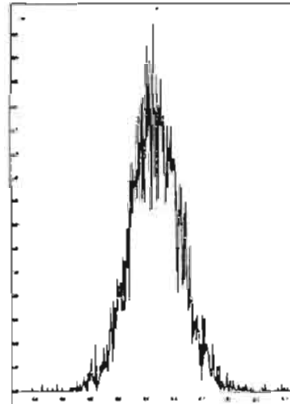
M 466.9728 R 15628



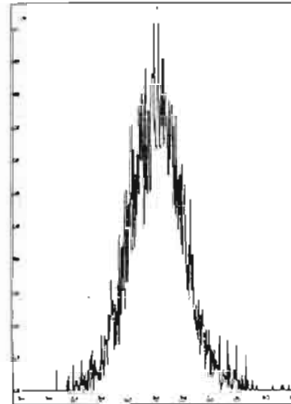
M 480.9696 R 11416



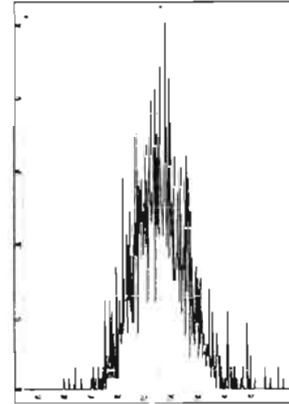
M 492.9696 R 13368



M 504.9696 R 11259



M 516.9697 R 12500



Vista Analytical Laboratory VG-11

Dataset: Untitled

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Printed: Wednesday, December 16, 2020 7:09:42 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.55
2	2 1,2,8,9-TCDD (Last)	27.25
3	3 1,2,4,7,9-PeCDD (First)	28.79
4	4 1,2,3,8,9-PeCDD (Last)	31.39
5	5 1,2,4,6,7,9-HxCDD (First)	32.70
6	6 1,2,3,7,8,9-HxCDD (Last)	34.73
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.19
9	9 1,3,6,8-TCDF (First)	20.29
10	10 1,2,8,9-TCDF (Last)	27.56
11	11 1,3,4,6,8-PeCDF (First)	27.13
12	12 1,2,3,8,9-PeCDF (Last)	31.76
13	13 1,2,3,4,6,8-HxCDF (First)	32.17
14	14 1,2,3,7,8,9-HxCDF (Last)	35.23
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.80
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.81

Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:09:30 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:09:42 AM Pacific Standard Time

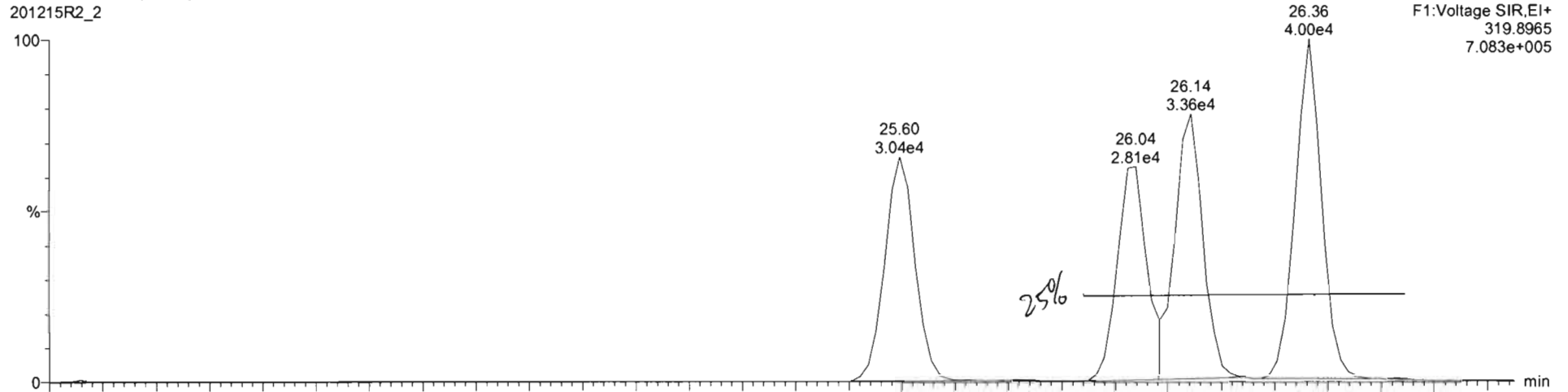
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HN 12/16/2020
GRB 12/16/2020

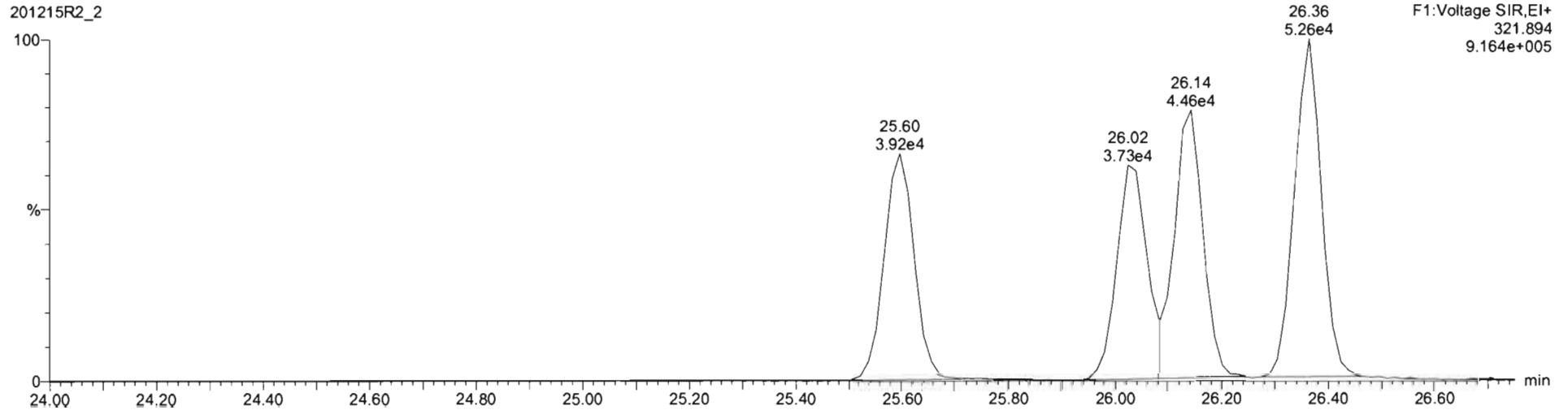
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1,3,6,8-TCDD (First)

201215R2_2



201215R2_2



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, December 16, 2020 7:09:30 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 7:09:42 AM Pacific Standard Time

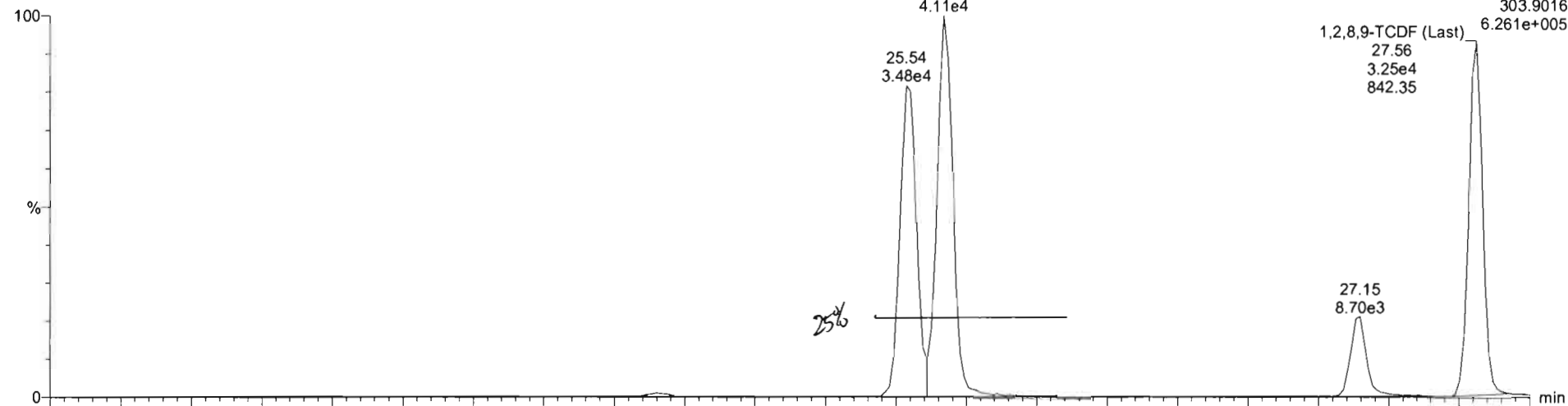
FIN 12/16/2020

GRB 12/10/2020

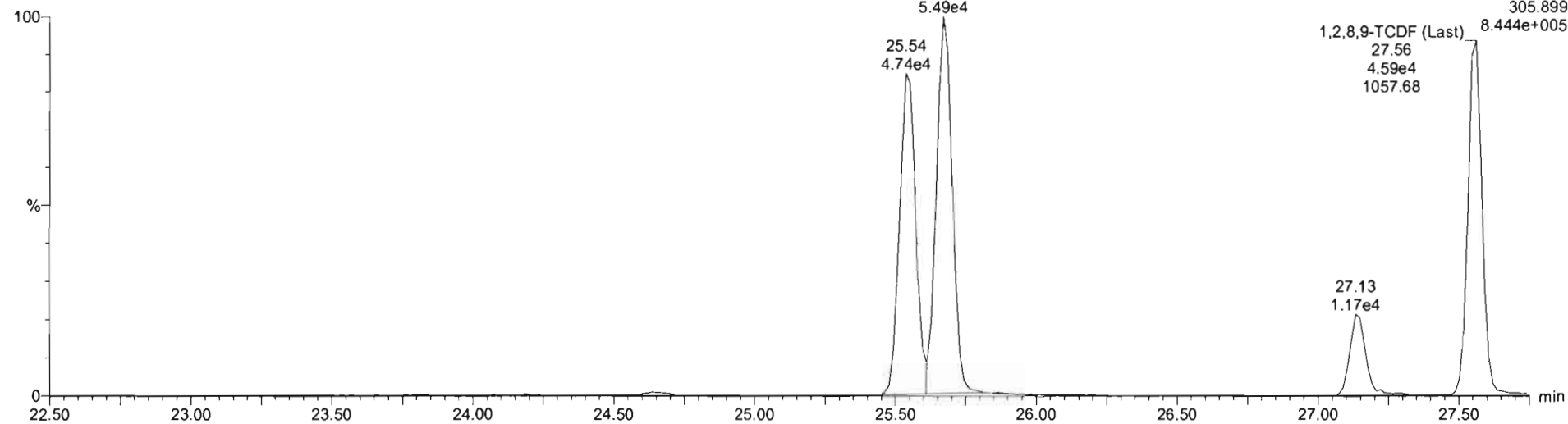
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1,3,6,8-TCDF (First)

201215R2_2



201215R2_2



Dataset: Untitled

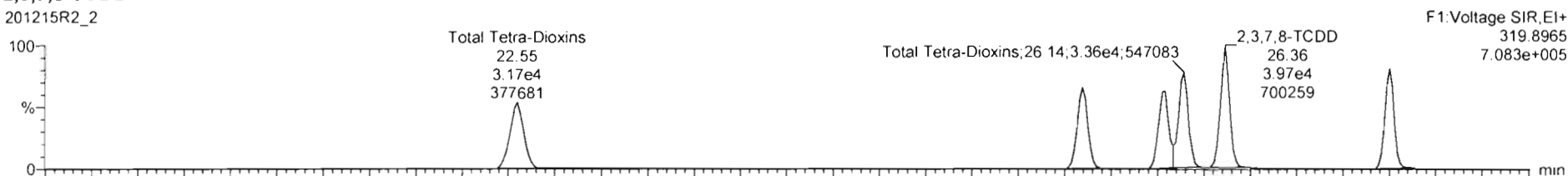
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Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

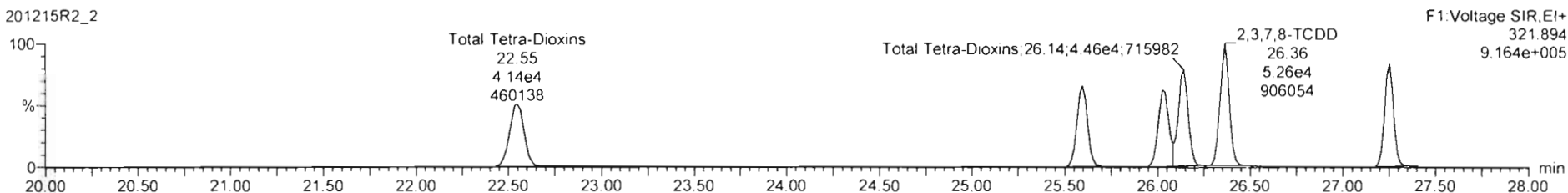
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2,3,7,8-TCDD

201215R2_2

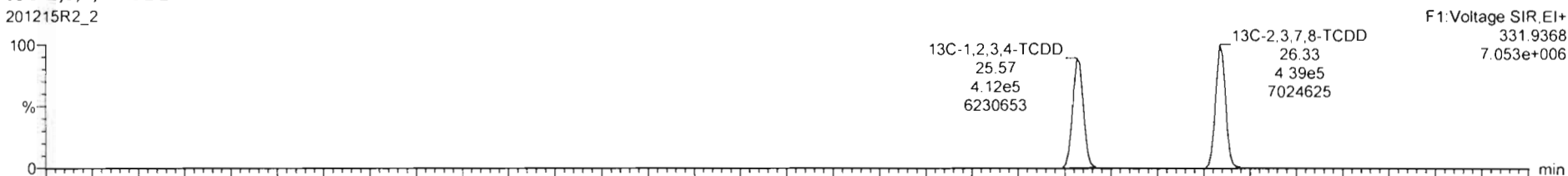


201215R2_2

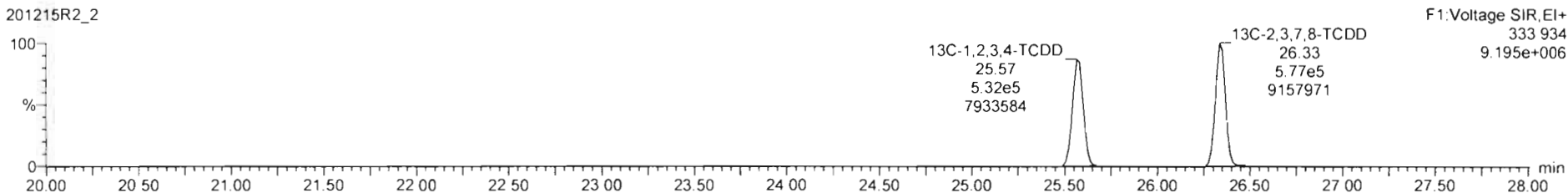


13C-2,3,7,8-TCDD

201215R2_2



201215R2_2

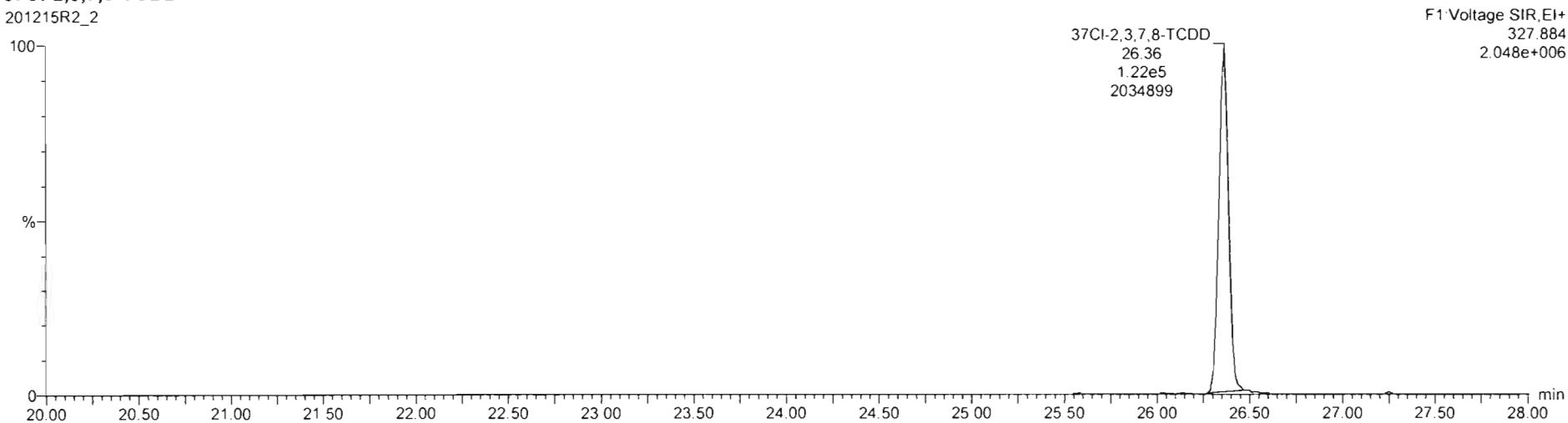


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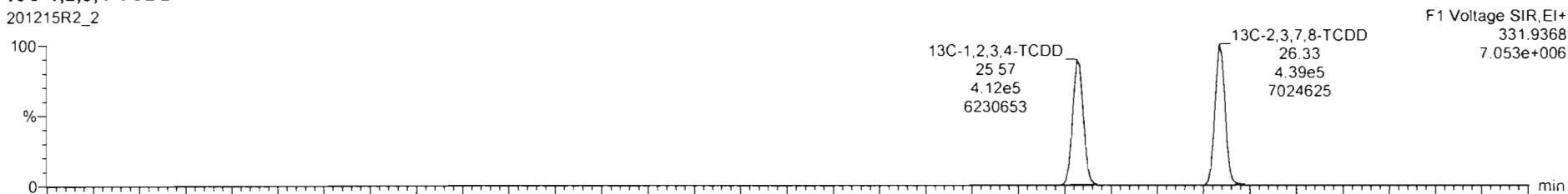
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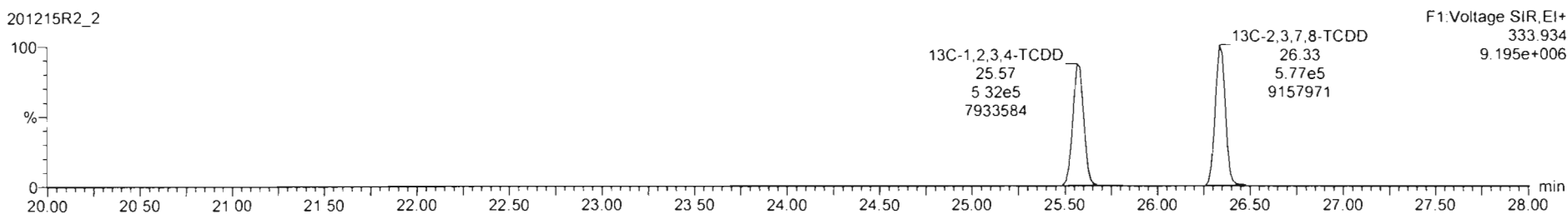
37Cl-2,3,7,8-TCDD
201215R2_2



13C-1,2,3,4-TCDD
201215R2_2



201215R2_2



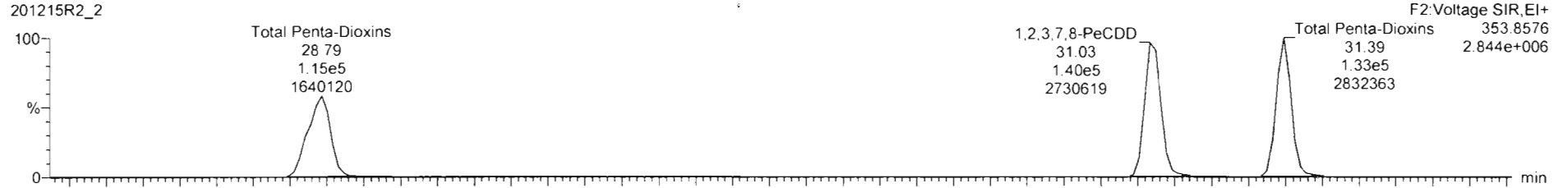
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Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

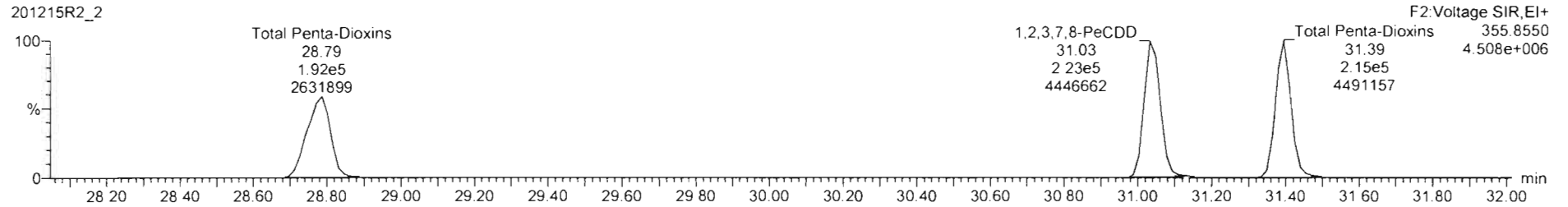
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1,2,3,7,8-PeCDD

201215R2_2

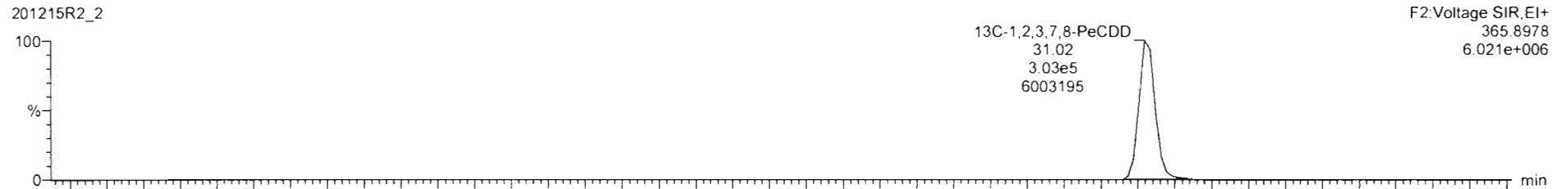


201215R2_2

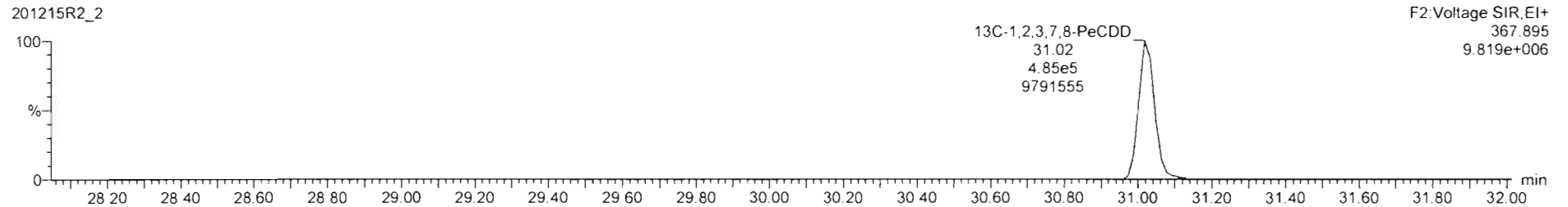


13C-1,2,3,7,8-PeCDD

201215R2_2



201215R2_2



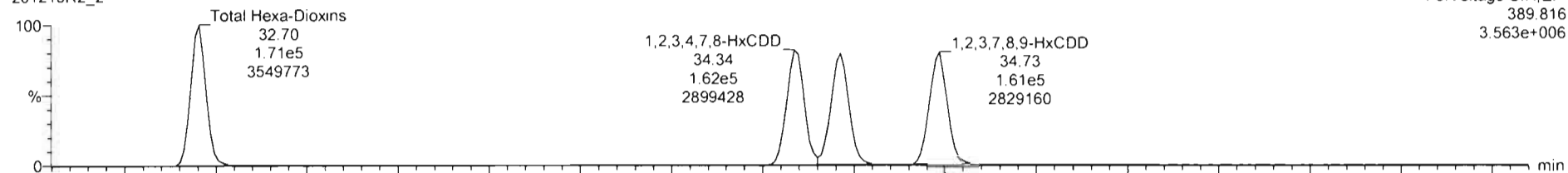
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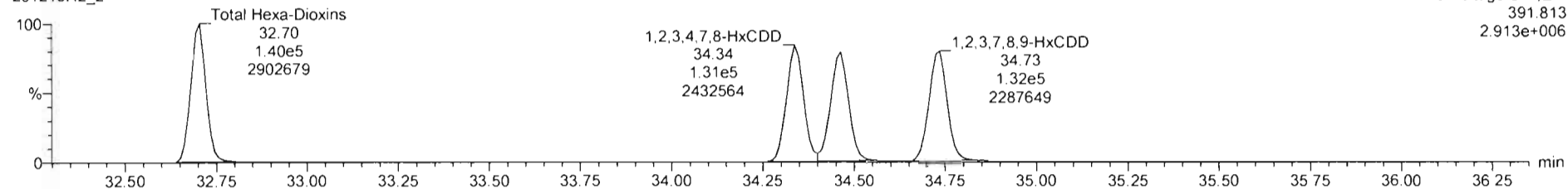
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1,2,3,4,7,8-HxCDD

201215R2_2

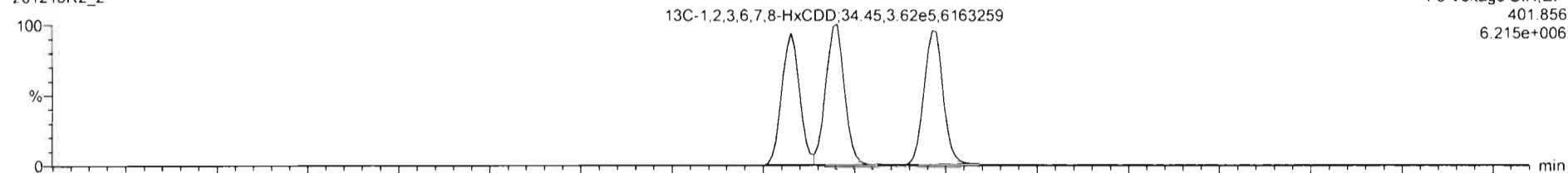


201215R2_2

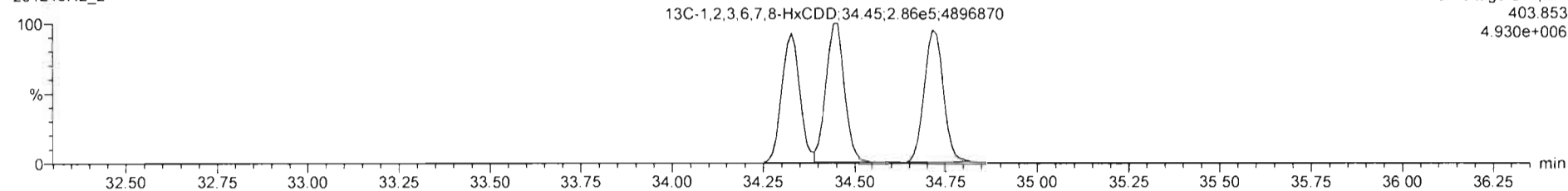


13C-1,2,3,4,7,8-HxCDD

201215R2_2

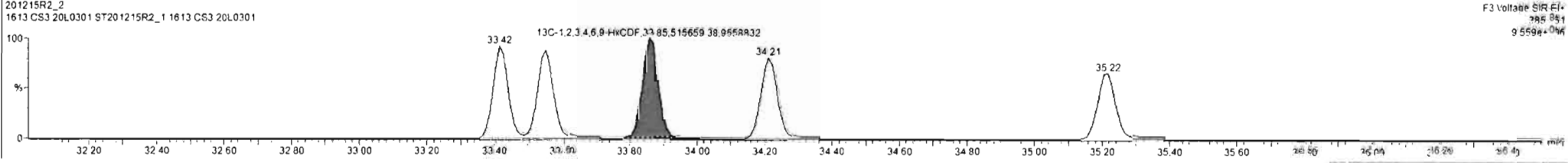
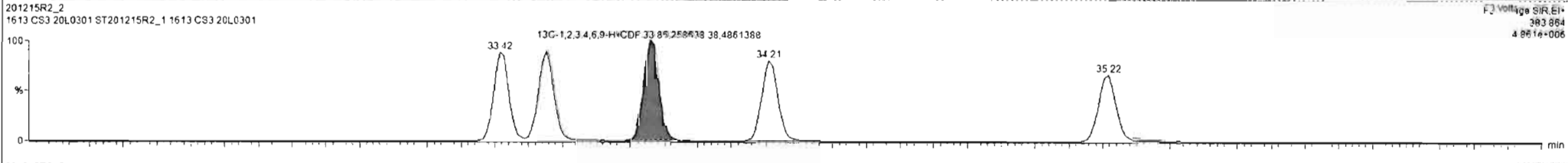
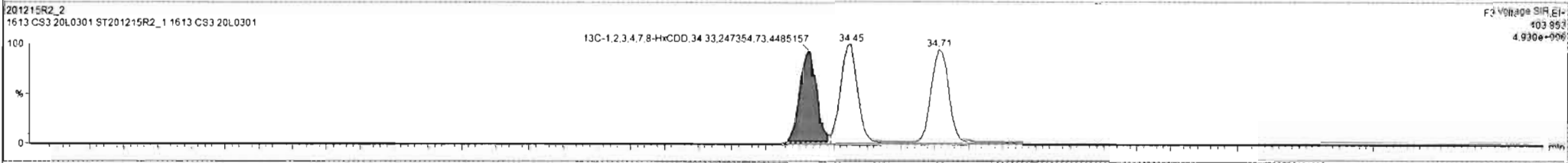
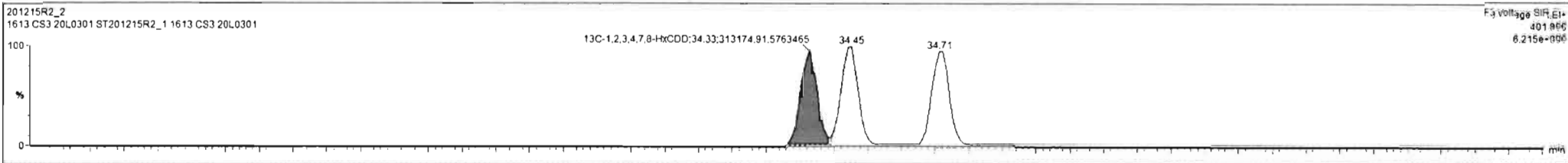


201215R2_2



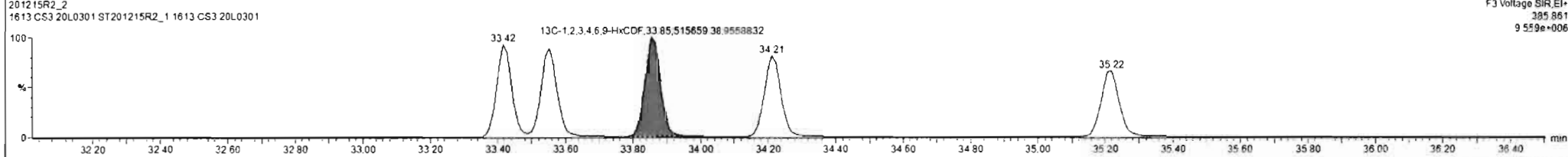
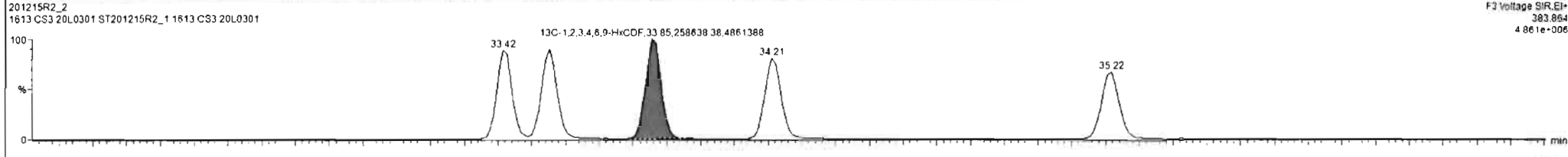
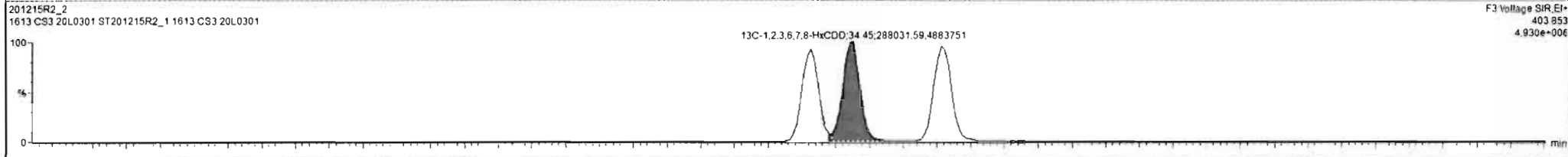
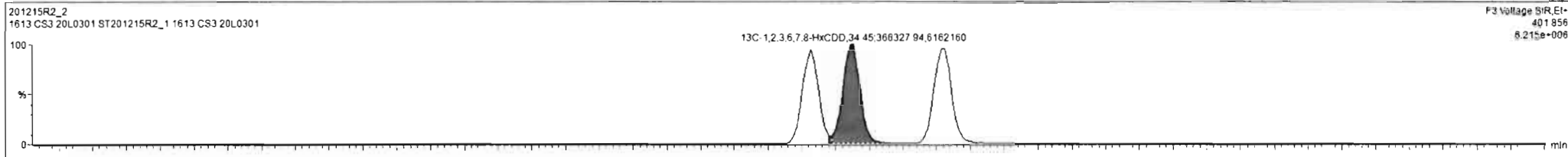
201215R2_2 - ST201215R2_1 1613 CS3 20L0301 - 1613 CS3 20L0301

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20	13C-1,2,3,4,7,8-HxCDD	5.61e5	7.74e5	1.24	1.27	NO	0.6205	34.32	34.33	NO	1.014	1.014	117	117	NO
21	13C-1,2,3,6,7,8-HxCDD	6.54e5	7.74e5	1.24	1.27	NO	0.7340	34.44	34.45	NO	1.017	1.018	115	115	NO
22	13C-1,2,3,7,8,9-HxCDD	6.39e5	7.74e5	1.24	1.26	NO	0.7228	34.72	34.71	NO	1.026	1.025	114	114	NO
23	13C-1,2,3,4,6,7,8-HpCDD	5.16e5	7.74e5	1.04	1.04	NO	0.5677	38.22	38.18	NO	1.129	1.128	117	117	NO
24	13C-OCDD	8.97e5	7.74e5	0.89	0.89	NO	0.4958	41.15	41.08	NO	1.216	1.214	234	117	NO
25	13C-2,3,7,8-TCDF	1.28e6	1.30e6	0.77	0.76	NO	0.9190	25.84	25.85	NO	1.003	1.003	107	107	NO



201215R2_2 CAP NUM

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
20	13C-1,2,3,4,7,8-HxCDD	5.61e5	7.74e5	1.24	1.27	NO	0.6205	34.32	34.33	NO	1.014	1.014	117	117	NO
21	13C-1,2,3,6,7,8-HxCDD	6.54e5	7.74e5	1.24	1.27	NO	0.7340	34.44	34.45	NO	1.017	1.018	115	115	NO
22	13C-1,2,3,7,8,9-HxCDD	6.39e5	7.74e5	1.24	1.26	NO	0.7226	34.72	34.71	NO	1.026	1.025	114	114	NO
23	13C-1,2,3,4,6,7,8-HxCDD	5.16e5	7.74e5	1.04	1.04	NO	0.5677	38.22	38.18	NO	1.129	1.128	117	117	NO
24	13C-OCDD	8.97e5	7.74e5	0.89	0.89	NO	0.4953	41.15	41.08	NO	1.216	1.214	234	117	NO
25	13C-2,3,7,8-TCDF	1.28e6	1.30e6	0.77	0.76	NO	0.9190	25.84	25.65	NO	1.003	1.003	107	107	NO



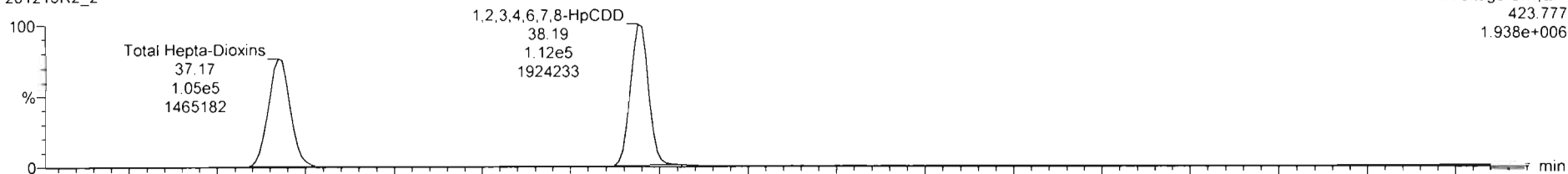
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Last Altered: Wednesday, December 16, 2020 7:03:00 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

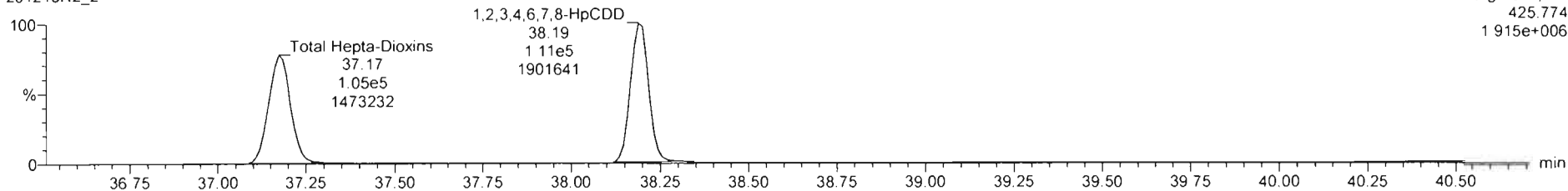
Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201215R2_2

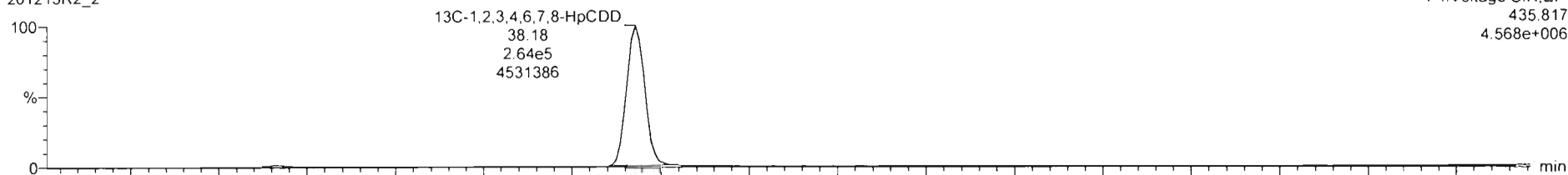


201215R2_2

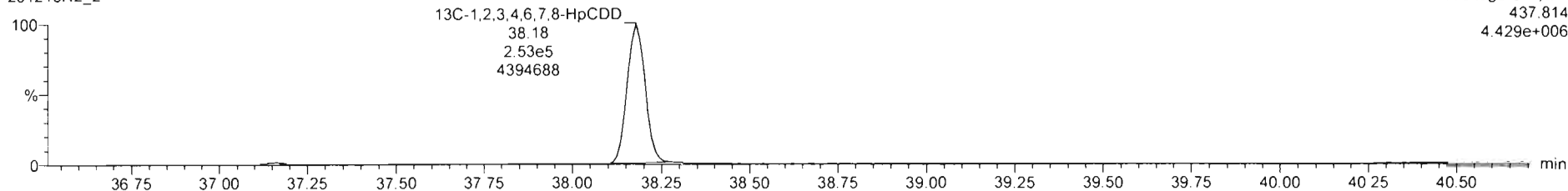


13C-1,2,3,4,6,7,8-HpCDD

201215R2_2



201215R2_2



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Last Altered: Wednesday, December 16, 2020 7:03:00 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

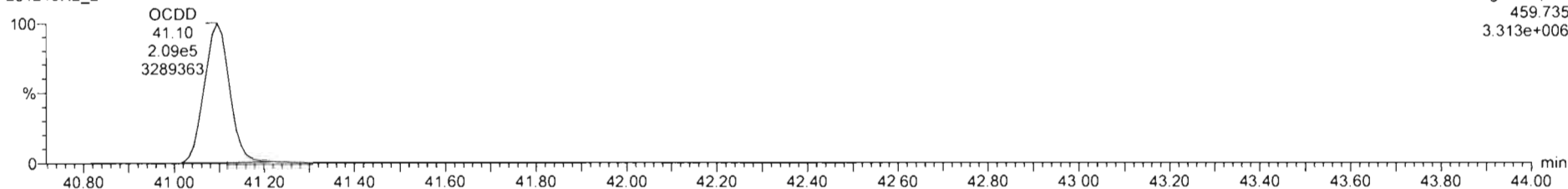
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OCDD

201215R2_2

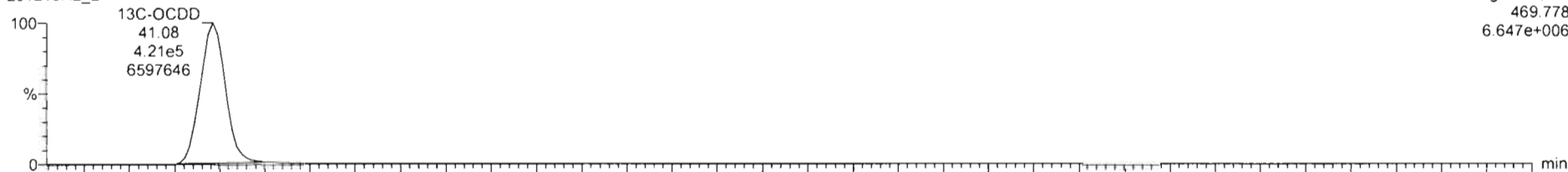


201215R2_2

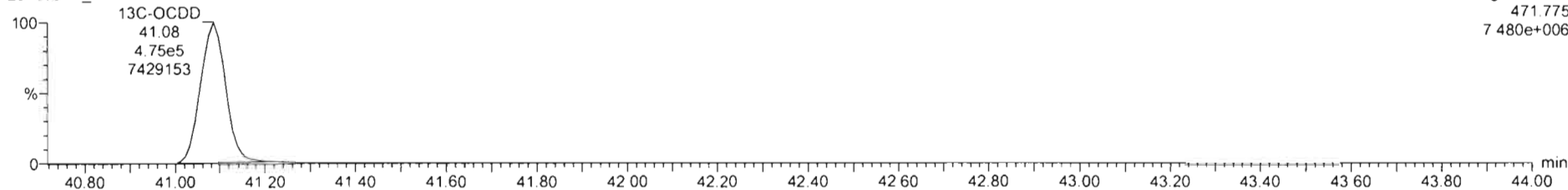


13C-OCDD

201215R2_2



201215R2_2



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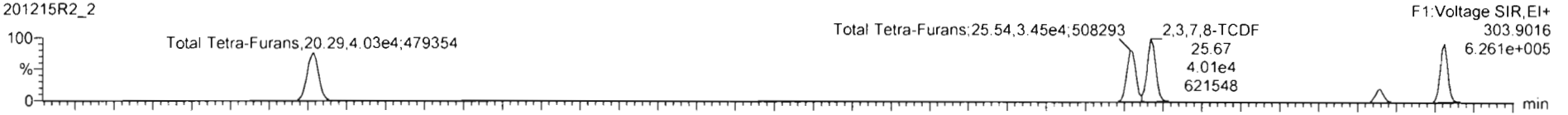
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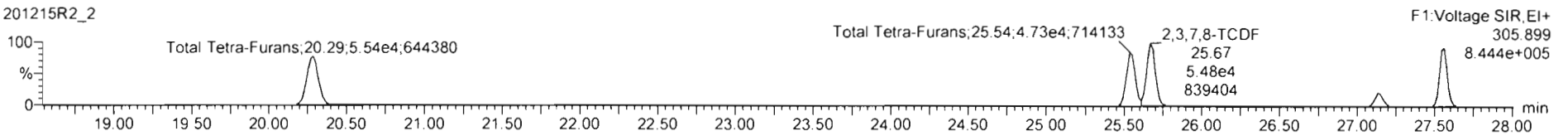
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2,3,7,8-TCDF

201215R2_2

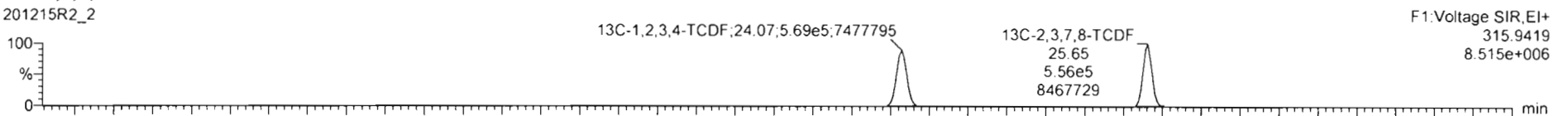


201215R2_2

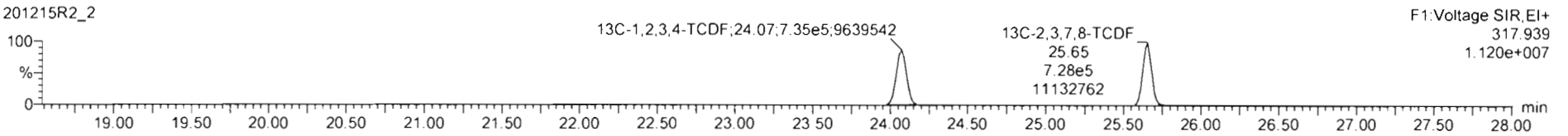


13C-2,3,7,8-TCDF

201215R2_2

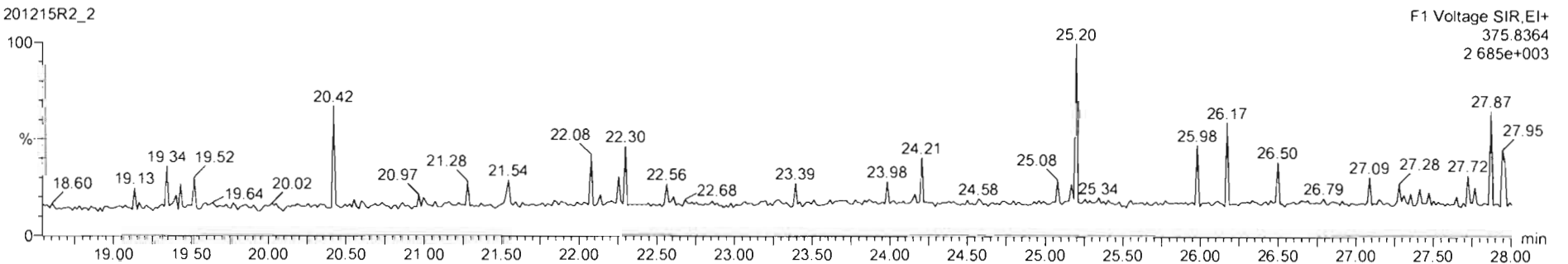


201215R2_2



DPE1

201215R2_2



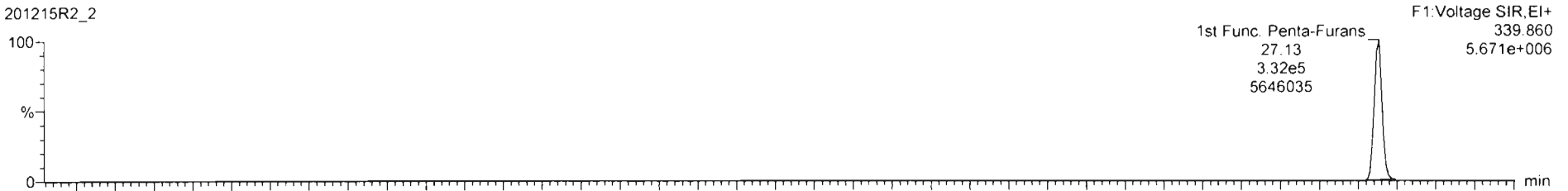
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Printed: Wednesday, December 16, 2020 7:03:15 AM Pacific Standard Time

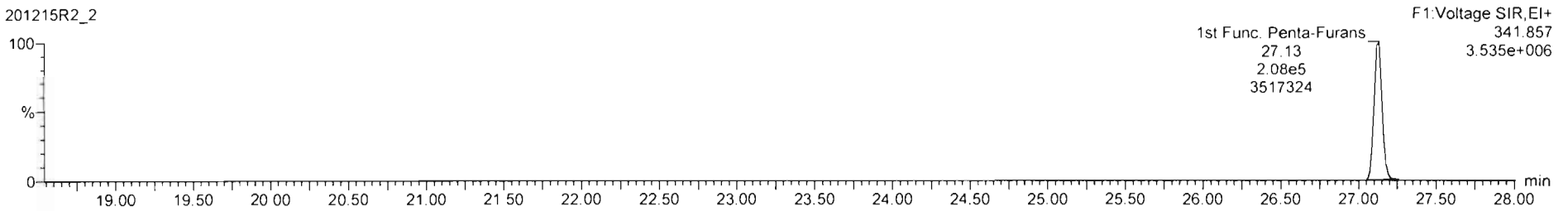
Name: 201215R2_2, Date: 15-Dec-2020, Time: 17:49:34, ID: ST201215R2_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1st Func. Penta-Furans

201215R2_2

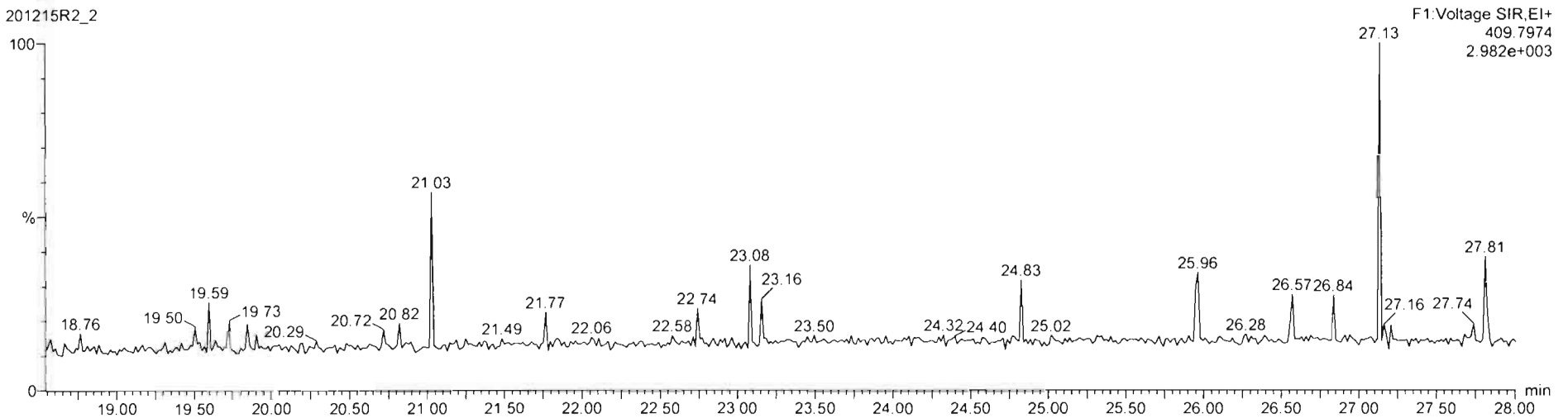


201215R2_2



DPE6

201215R2_2

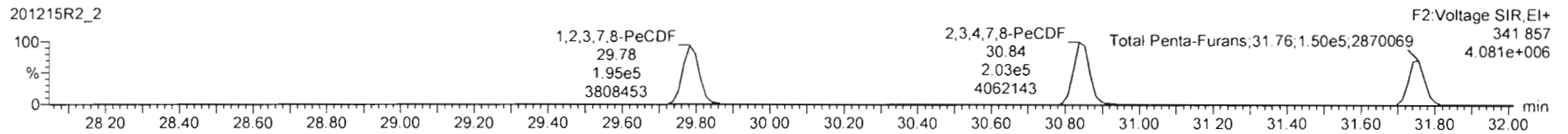
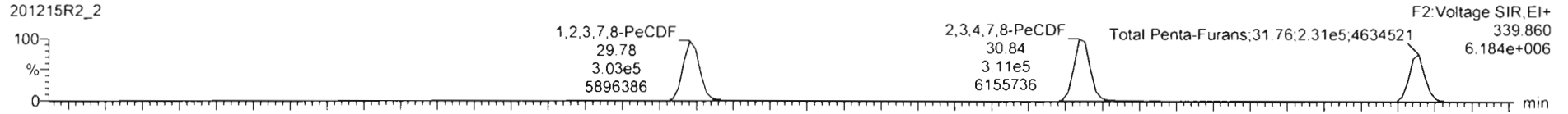


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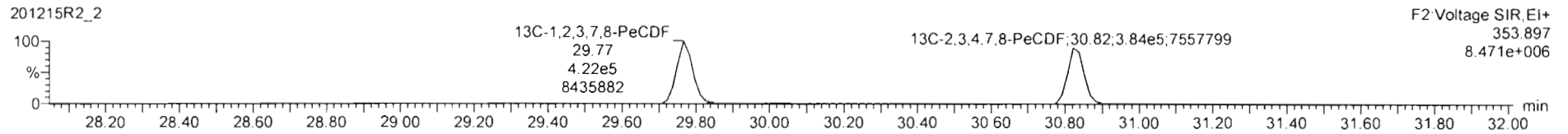
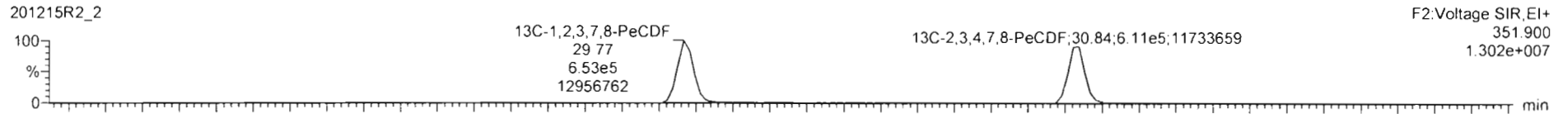
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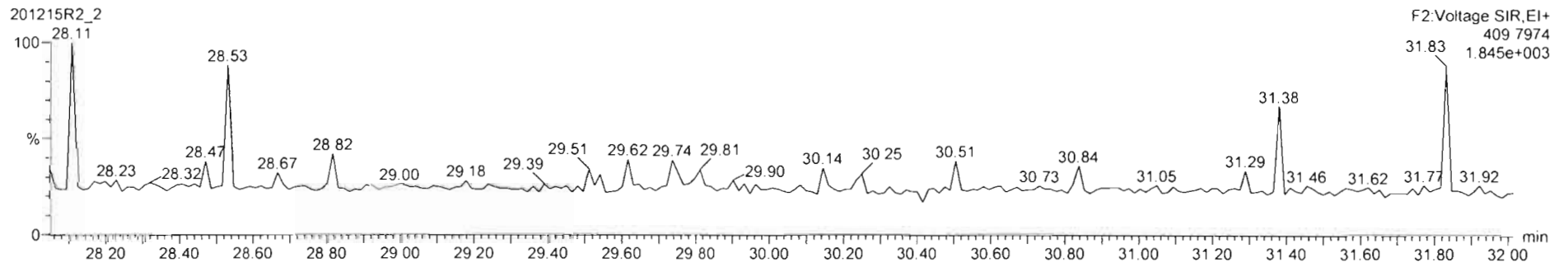
1,2,3,7,8-PeCDF



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



DPE2

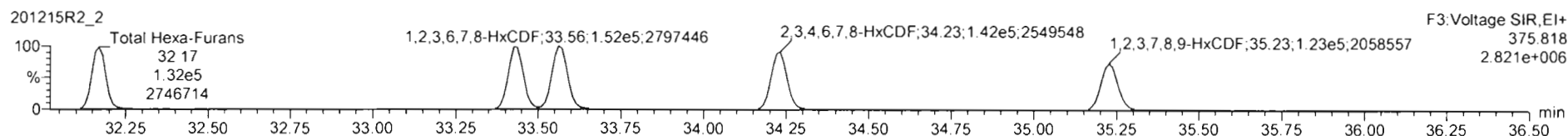
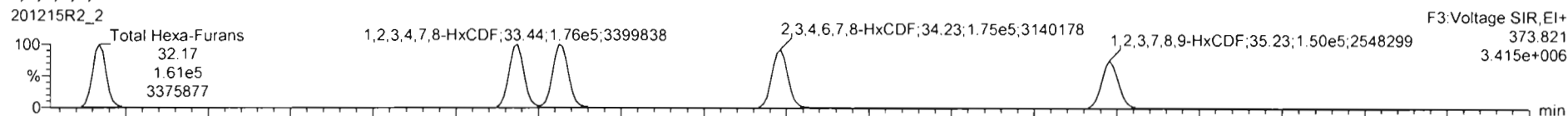


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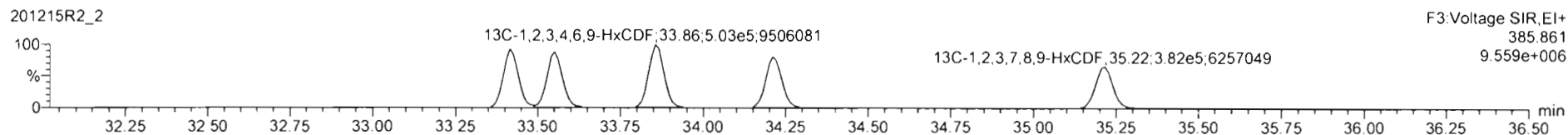
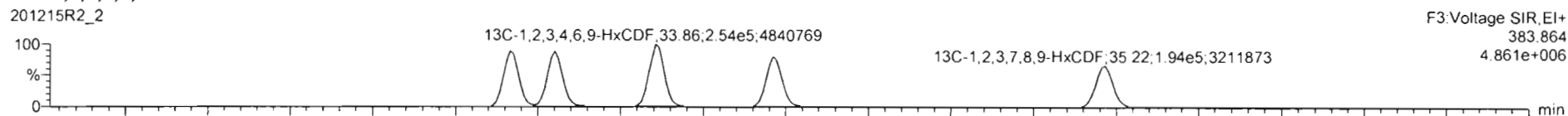
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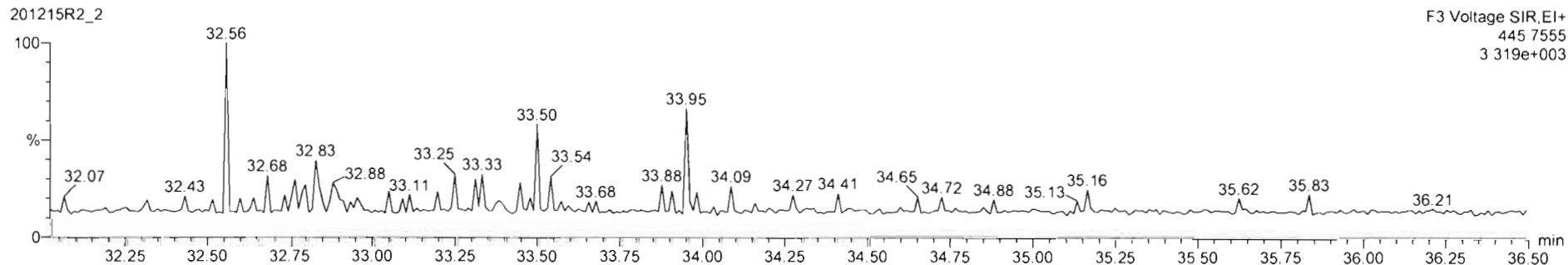
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13C-1,2,3,4,7,8-HxCDF



DPE3

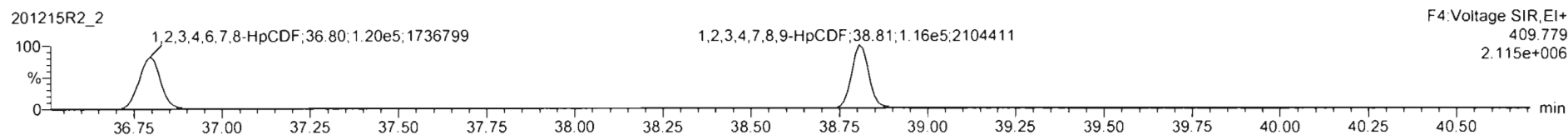
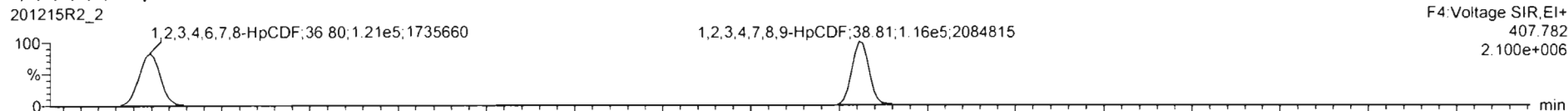


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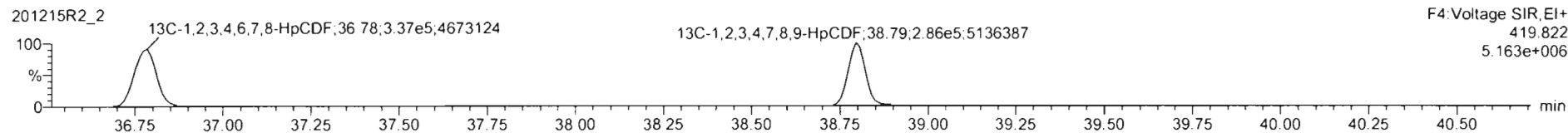
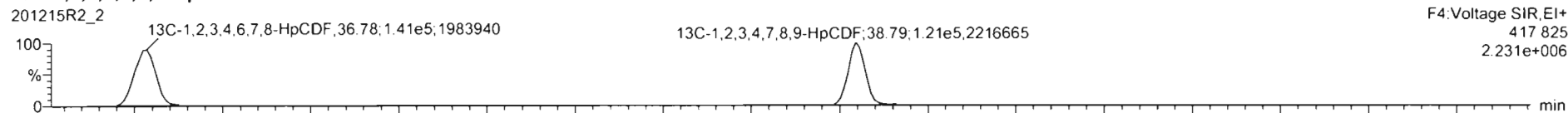
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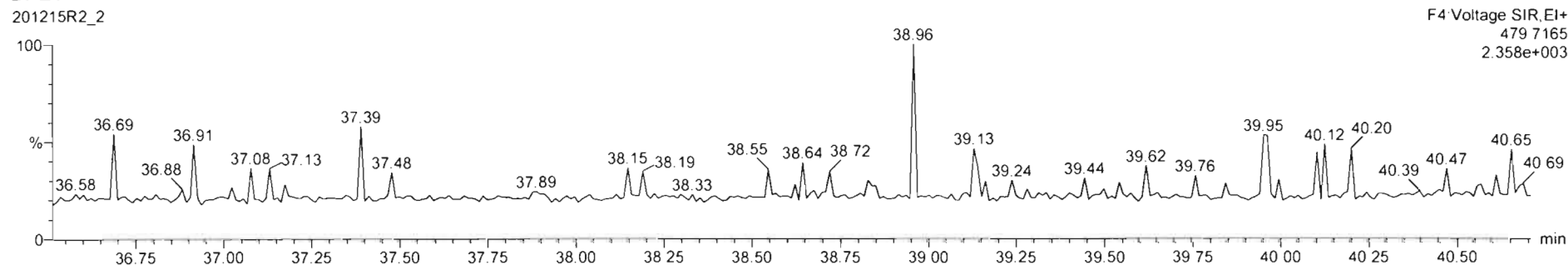
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13C-1,2,3,4,6,7,8-HpCDF



DPE4



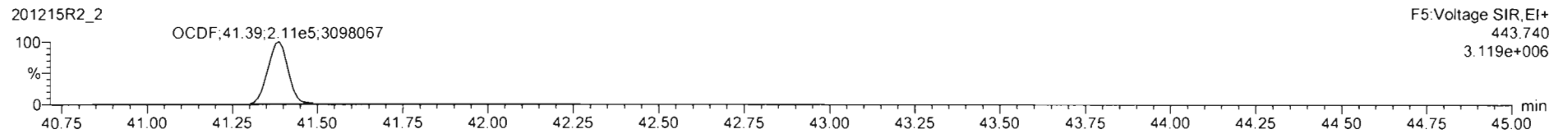
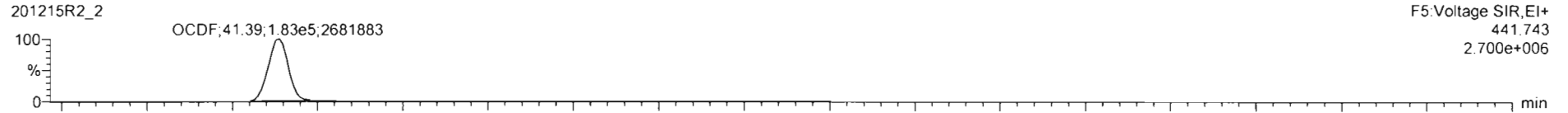
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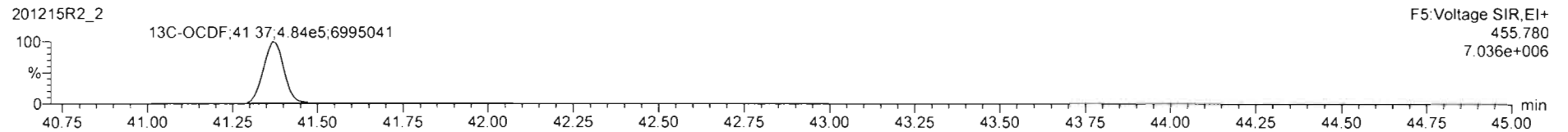
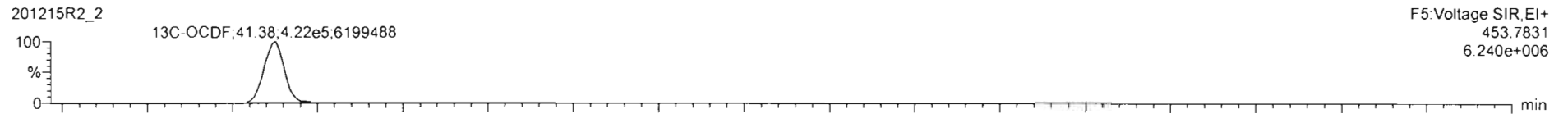
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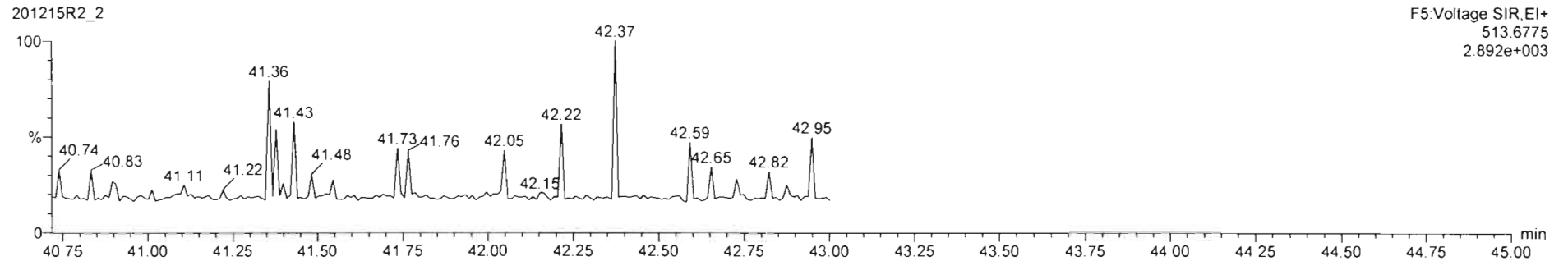
OCDF



13C-OCDF



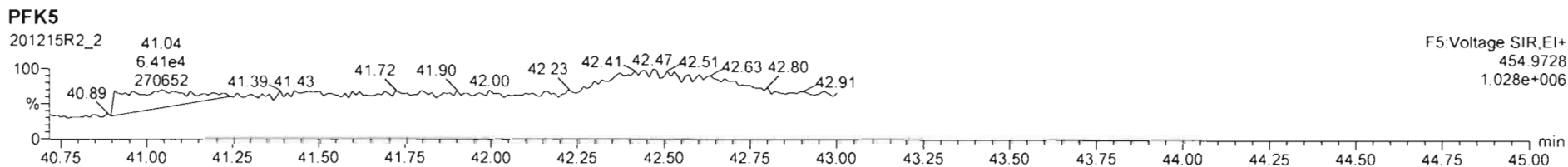
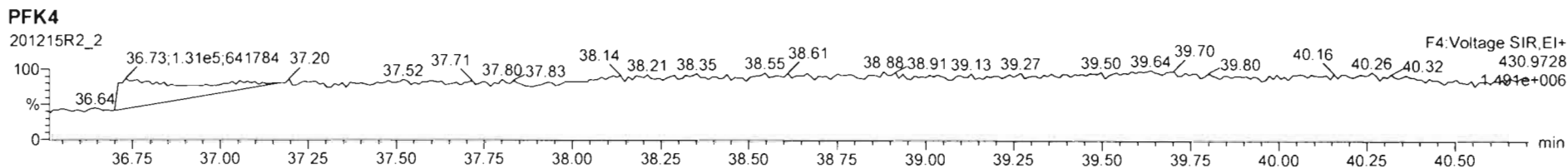
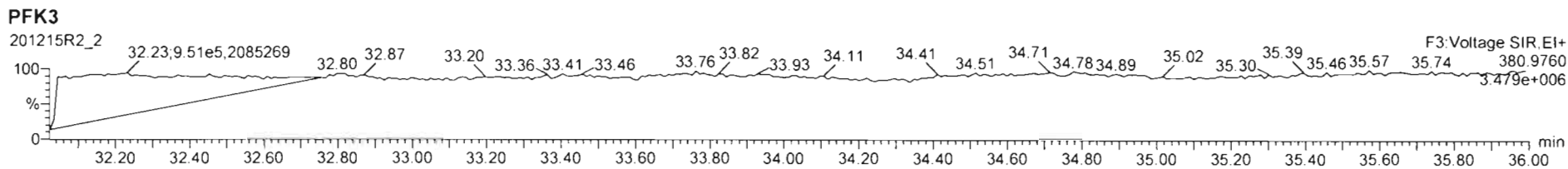
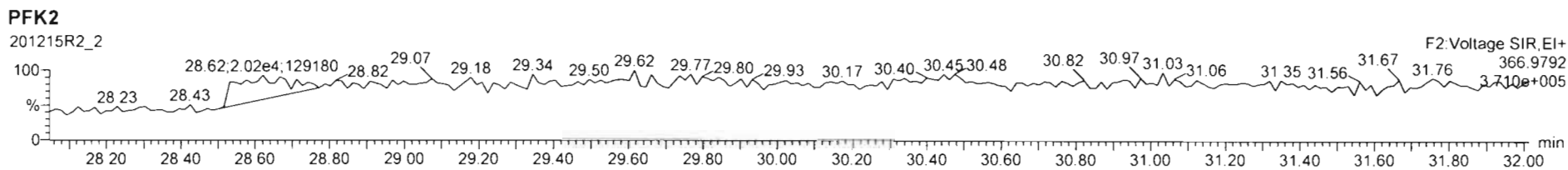
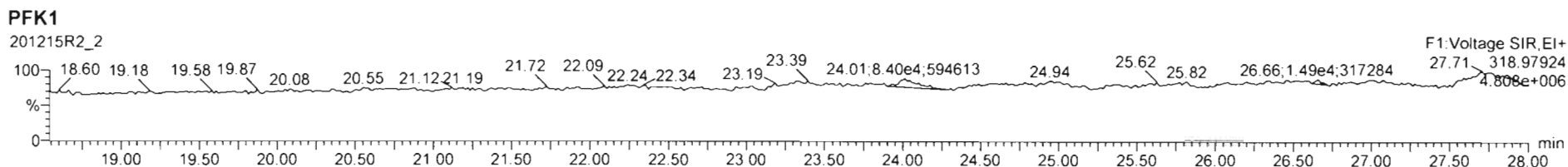
DPE5



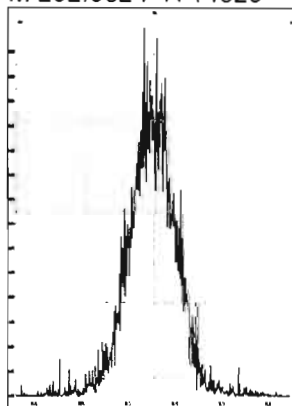
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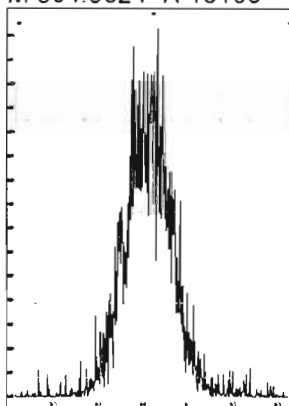
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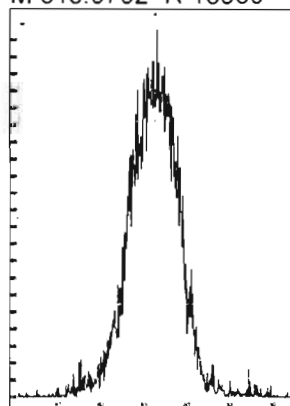
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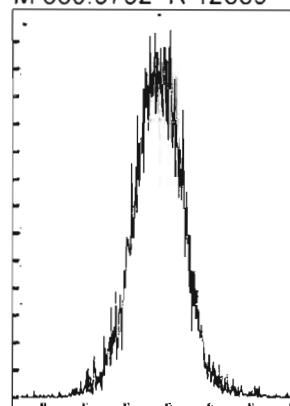
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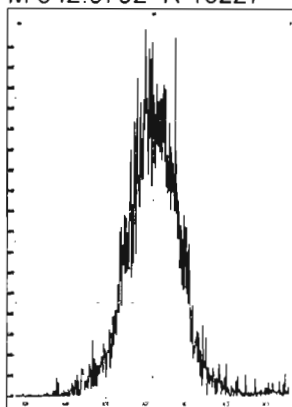
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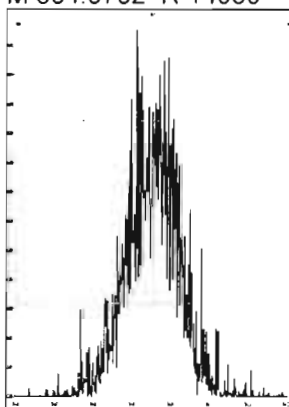
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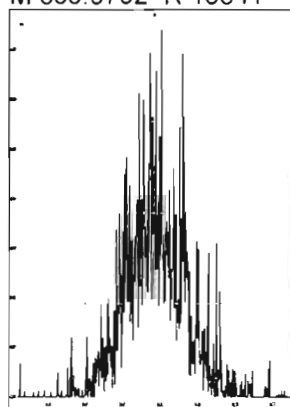
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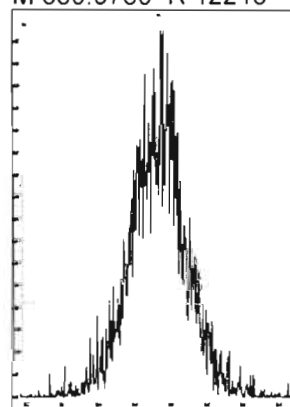
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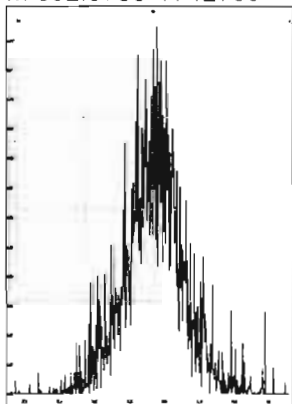
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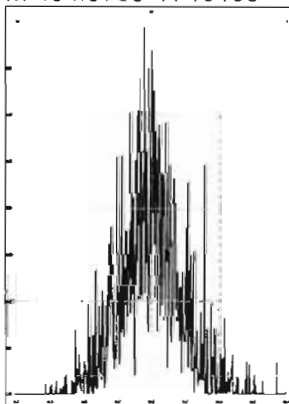
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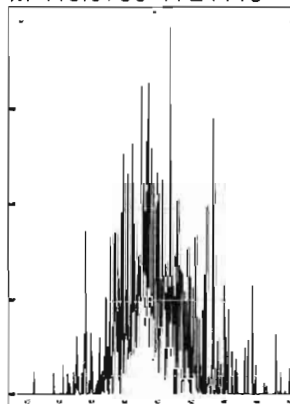
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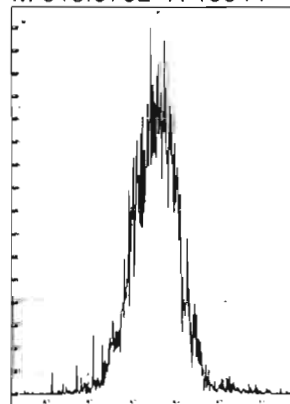
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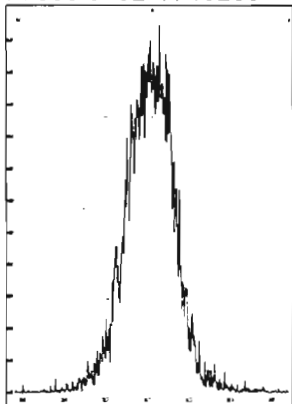
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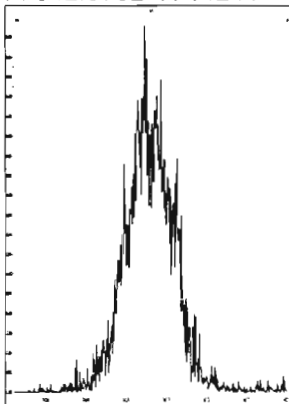
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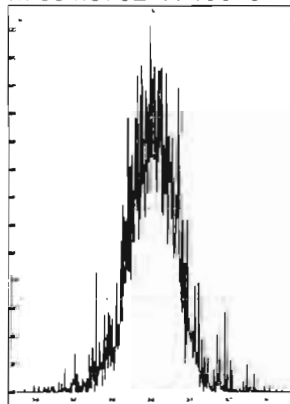
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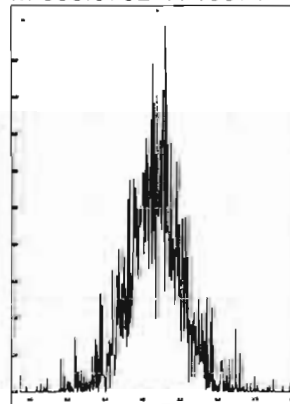
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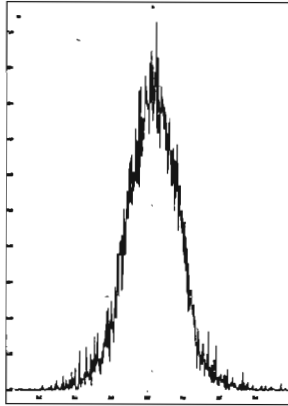


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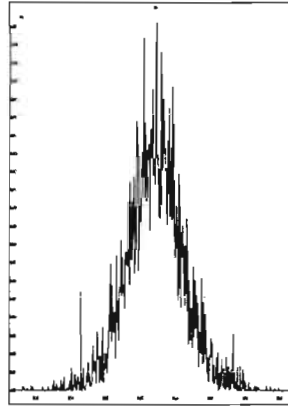


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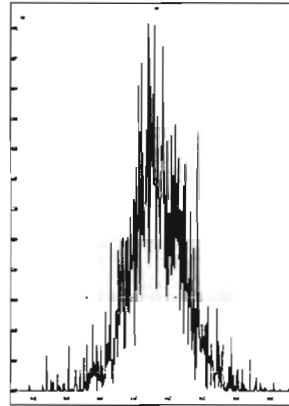
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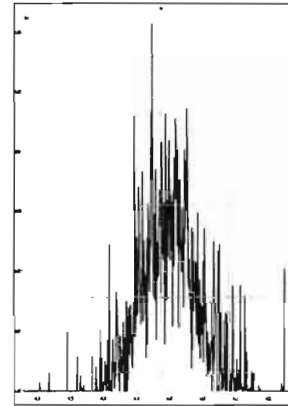
M 392.9760 R 13527



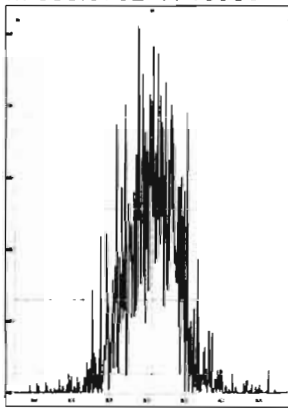
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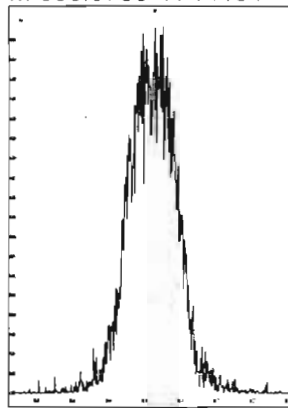
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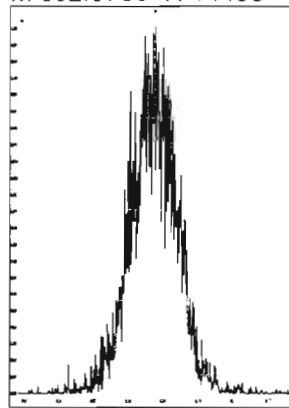
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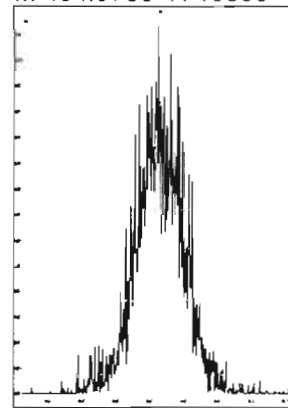
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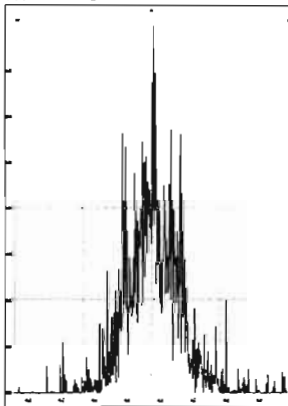
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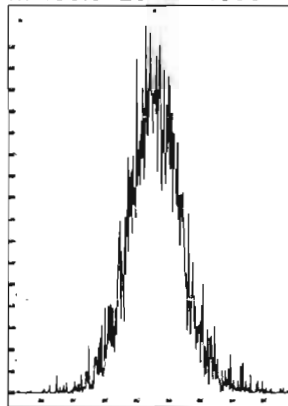
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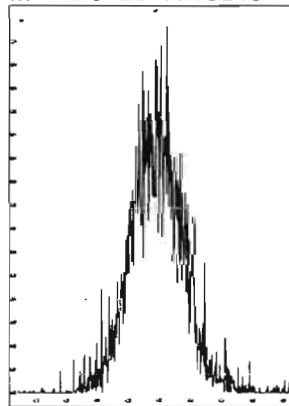
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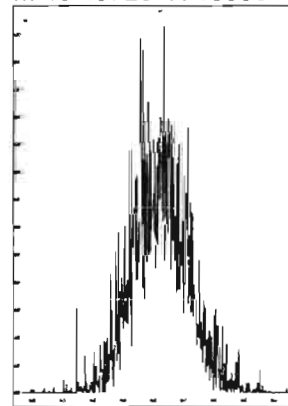
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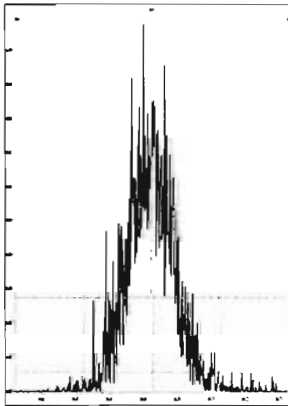
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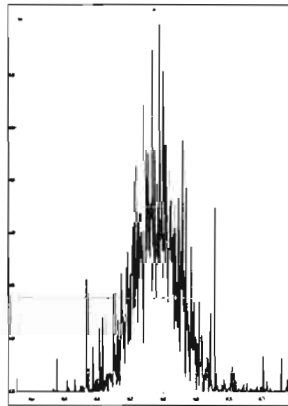
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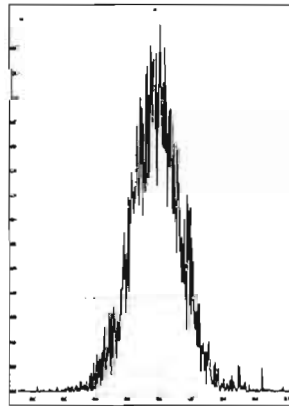
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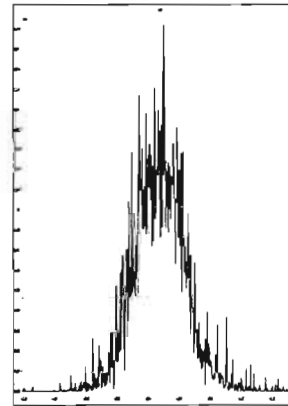
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M 430.9728 R 14124

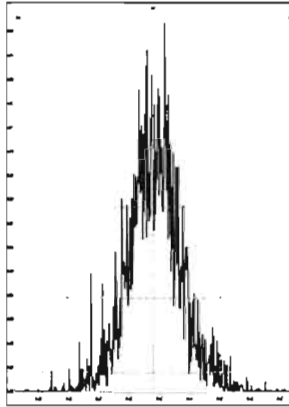


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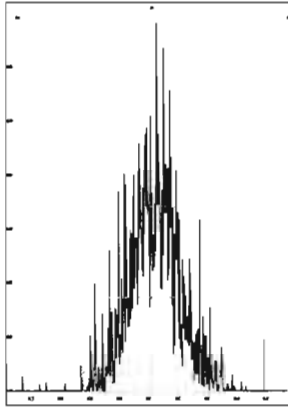


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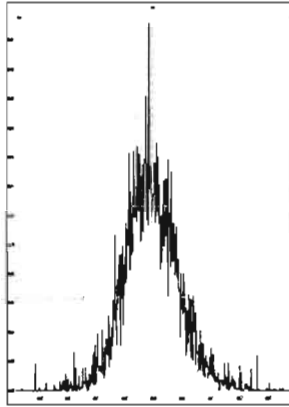
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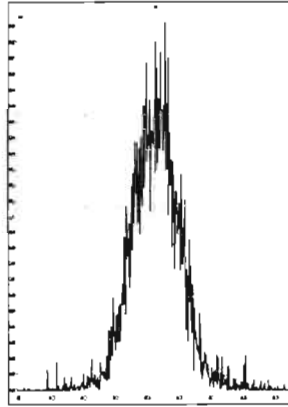
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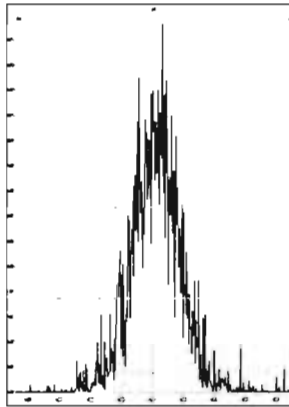
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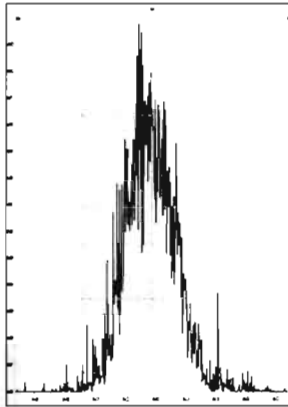
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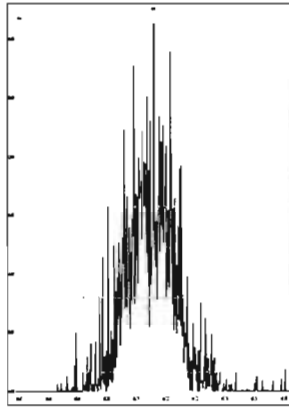
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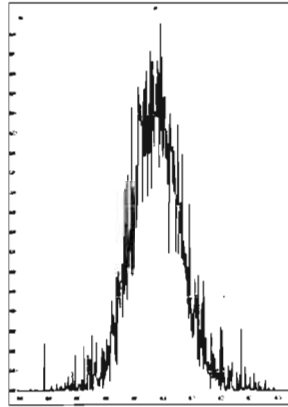
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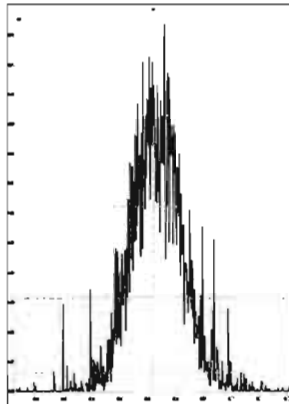
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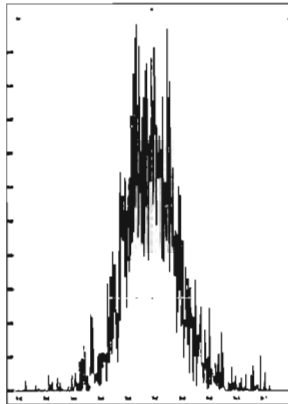
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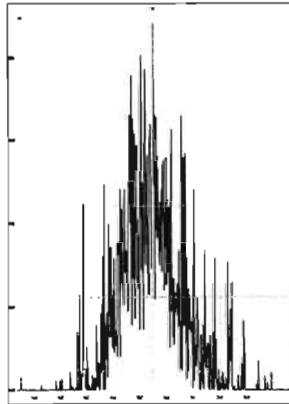
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Dataset: U:\VG12.PRO\Results\201216R1\201216R1_1.qld

Last Altered: Wednesday, December 16, 2020 9:06:01 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 9:37:24 AM Pacific Standard Time

FIN 12/16/2020

GRB 12/18/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_1, Date: 16-Dec-2020, Time: 08:12:18, ID: ST201216R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	6.14e4	6.98e5	0.75	NO	0.980	26.38	26.36	NO	1.001	1.001	8.9783	89.8	NO
2	2 1,2,3,7,8-PeCDD	2.25e5	4.90e5	0.60	NO	0.932	31.06	31.05	NO	1.001	1.000	49.250	98.5	NO
3	3 1,2,3,4,7,8-HxCDD	1.97e5	3.77e5	1.23	NO	1.02	34.36	34.35	NO	1.001	1.000	51.186	102	NO
4	4 1,2,3,6,7,8-HxCDD	1.98e5	4.39e5	1.24	NO	0.902	34.47	34.46	NO	1.001	1.000	49.964	99.9	NO
5	5 1,2,3,7,8,9-HxCDD	1.99e5	4.27e5	1.22	NO	0.954	34.73	34.73	NO	1.000	1.000	48.801	97.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.49e5	3.52e5	1.03	NO	0.918	38.20	38.20	NO	1.000	1.000	46.205	92.4	NO
7	7 OCDD	2.55e5	5.86e5	0.84	NO	0.866	41.10	41.10	NO	1.000	1.000	100.32	100	NO
8	8 2,3,7,8-TCDF	5.94e4	8.28e5	0.73	NO	0.848	25.66	25.67	NO	1.000	1.001	8.4520	84.5	NO
9	9 1,2,3,7,8-PeCDF	3.11e5	6.79e5	1.55	NO	0.960	29.78	29.80	NO	1.000	1.001	47.775	95.6	NO
10	10 2,3,4,7,8-PeCDF	3.07e5	6.22e5	1.53	NO	1.07	30.86	30.85	NO	1.001	1.000	46.245	92.5	NO
11	11 1,2,3,4,7,8-HxCDF	2.11e5	4.55e5	1.21	NO	0.986	33.44	33.44	NO	1.000	1.000	47.080	94.2	NO
12	12 1,2,3,6,7,8-HxCDF	2.26e5	4.61e5	1.22	NO	1.04	33.58	33.57	NO	1.001	1.000	47.226	94.5	NO
13	13 2,3,4,6,7,8-HxCDF	2.09e5	4.33e5	1.21	NO	1.02	34.24	34.24	NO	1.001	1.001	47.403	94.8	NO
14	14 1,2,3,7,8,9-HxCDF	1.82e5	3.89e5	1.22	NO	0.991	35.23	35.24	NO	1.000	1.001	47.243	94.5	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.59e5	3.18e5	1.00	NO	1.05	36.80	36.80	NO	1.000	1.000	47.779	95.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.44e5	2.54e5	1.00	NO	1.18	38.82	38.82	NO	1.000	1.000	48.310	96.6	NO
17	17 OCDF	2.60e5	6.01e5	0.88	NO	0.896	41.40	41.40	NO	1.000	1.000	96.739	96.7	NO
18	18 13C-2,3,7,8-TCDD	6.98e5	6.11e5	0.77	NO	1.06	26.35	26.35	NO	1.030	1.030	108.14	108	NO
19	19 13C-1,2,3,7,8-PeCDD	4.90e5	6.11e5	0.63	NO	0.785	31.19	31.03	NO	1.219	1.213	102.12	102	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.77e5	5.20e5	1.27	NO	0.621	34.33	34.34	NO	1.014	1.014	116.74	117	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.39e5	5.20e5	1.28	NO	0.734	34.45	34.45	NO	1.017	1.017	114.92	115	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.27e5	5.20e5	1.26	NO	0.723	34.73	34.72	NO	1.026	1.025	113.58	114	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.52e5	5.20e5	1.01	NO	0.568	38.23	38.19	NO	1.129	1.128	119.13	119	NO
24	24 13C-OCDD	5.86e5	5.20e5	0.93	NO	0.496	41.17	41.09	NO	1.216	1.213	227.07	114	NO
25	25 13C-2,3,7,8-TCDF	8.28e5	8.55e5	0.75	NO	0.919	25.65	25.65	NO	1.003	1.003	105.42	105	NO
26	26 13C-1,2,3,7,8-PeCDF	6.79e5	8.55e5	1.53	NO	0.715	29.90	29.78	NO	1.169	1.164	111.12	111	NO
27	27 13C-2,3,4,7,8-PeCDF	6.22e5	8.55e5	1.57	NO	0.689	30.99	30.84	NO	1.212	1.205	105.76	106	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.55e5	5.20e5	0.49	NO	0.873	33.43	33.43	NO	0.987	0.987	100.08	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.61e5	5.20e5	0.51	NO	0.933	33.56	33.56	NO	0.991	0.991	94.942	94.9	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.33e5	5.20e5	0.50	NO	0.843	34.23	34.22	NO	1.011	1.011	98.608	98.6	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.89e5	5.20e5	0.50	NO	0.780	35.23	35.22	NO	1.040	1.040	95.925	95.9	NO

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_1.qld

Last Altered: Wednesday, December 16, 2020 9:06:01 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 9:37:24 AM Pacific Standard Time

Name: 201216R1_1, Date: 16-Dec-2020, Time: 08:12:18, ID: ST201216R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

	# 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	3.18e5	5.20e5	0.41	NO	0.726	36.80	36.78	NO	1.087	1.086	84.112	84.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.54e5	5.20e5	0.42	NO	0.491	38.81	38.81	NO	1.146	1.146	99.237	99.2	NO
34	34 13C-OCDF	6.01e5	5.20e5	0.87	NO	0.565	41.38	41.39	NO	1.222	1.222	204.13	102	NO
35	35 37Cl-2,3,7,8-TCDD	8.38e4	6.11e5			1.22	26.35	26.36	NO	1.030	1.031	11.269	113	NO
36	36 13C-1,2,3,4-TCDD	6.11e5	6.11e5	0.77	NO	1.00	25.64	25.58	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.55e5	8.55e5	0.78	NO	1.00	24.13	24.07	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.20e5	5.20e5	0.49	NO	1.00	33.92	33.87	NO	1.000	1.000	100.00	100	YES <i>OK</i>

Dataset: Untitled

Last Altered: Thursday, December 17, 2020 2:57:39 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:06:08 PM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

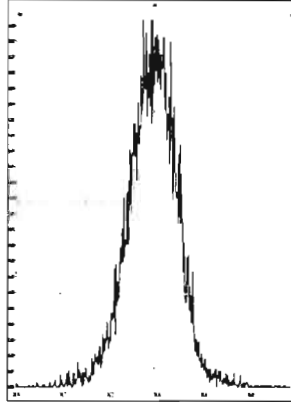
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201216R1_1	ST201216R1_1 1613 CS3 20L0301	16-Dec-20	08:12:18
2	201216R1_2	B0L0004-BS1 OPR 1	16-Dec-20	09:03:16
3	201216R1_3	SOLVENT BLANK	16-Dec-20	10:00:23
4	201216R1_4	B0L0004-BLK1 Method Blank 1	16-Dec-20	10:44:59
5	201216R1_5	2002493-03 USMPDI-012SC-A-03-04-201109 ...	16-Dec-20	11:30:00
6	201216R1_6	2002493-04 USMPDI-012SC-A-04-05-201109 ...	16-Dec-20	12:15:26
7	201216R1_7	2002493-05 USMPDI-014SC-A-10-11-201109 ...	16-Dec-20	13:00:35
8	201216R1_8	2002493-06 USMPDI-014SC-A-11-12-201109 ...	16-Dec-20	13:46:13
9	201216R1_9	2002493-07 USMPDI-014SC-A-12-13-201109 ...	16-Dec-20	14:31:33
10	201216R1_10	2002493-08 USMPDI-014SC-A-13-14-201109 ...	16-Dec-20	15:17:22
11	201216R1_11	2002493-09 USMPDI-057SC-A-03-04-201109 ...	16-Dec-20	16:03:03
12	201216R1_12	2002493-10 USMPDI-057SC-A-04-05-201109 ...	16-Dec-20	16:47:18
13	201216R1_13	2002493-11 USMPDI-057SC-A-05-06-201109 ...	16-Dec-20	17:31:33
14	201216R1_14	2002493-12 USMPDI-057SC-A-06-07-201109 ...	16-Dec-20	18:15:49

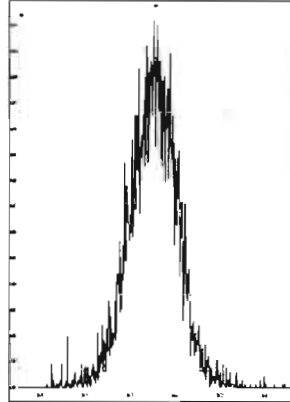
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, December 16, 2020 08:00:09 Pacific Standard Time

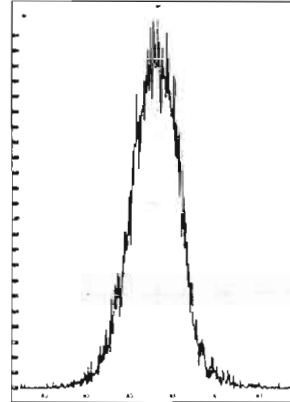
M 292.9824 R 12253



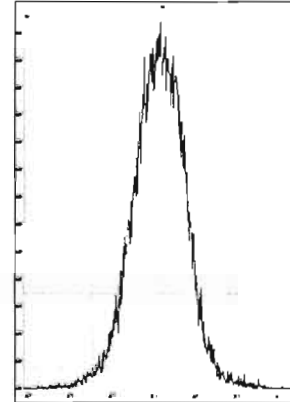
M 304.9824 R 12888



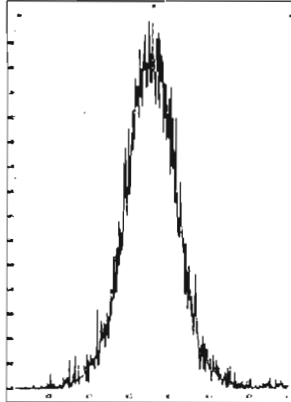
M 318.9792 R 12886



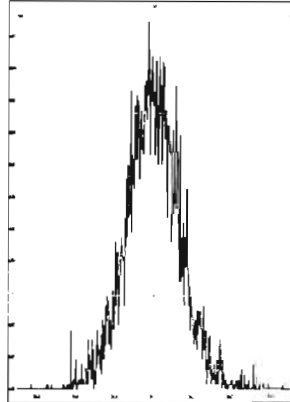
M 330.9792 R 11964



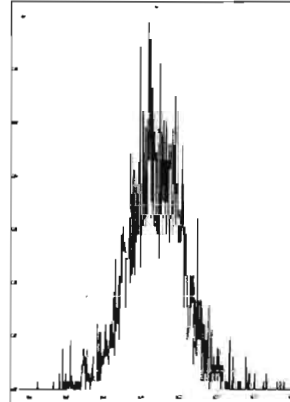
M 342.9792 R 11261



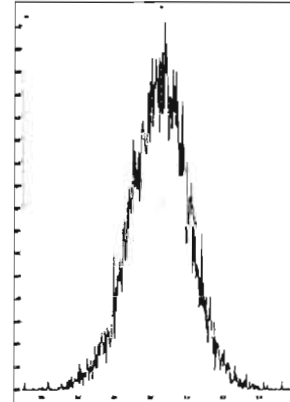
M 354.9792 R 12374



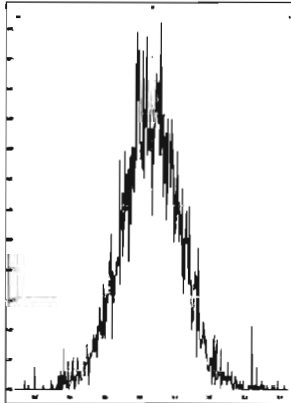
M 366.9792 R 13514



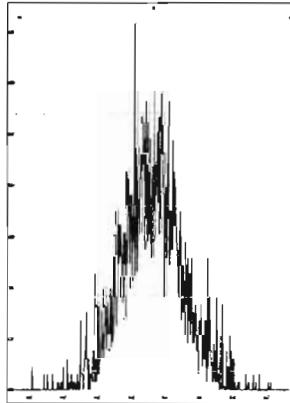
M 380.9760 R 10079



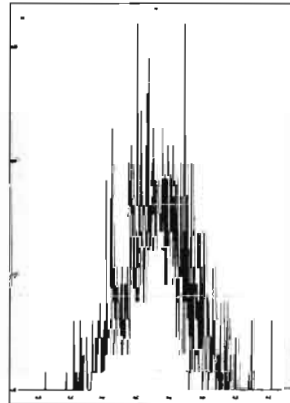
M 392.9760 R 11262



M 404.9760 R 10637



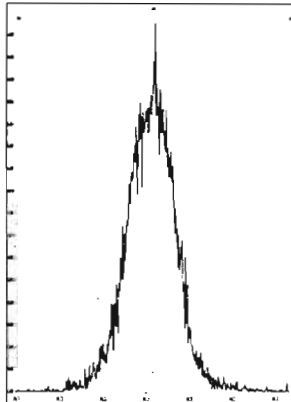
M 416.9760 R 14126



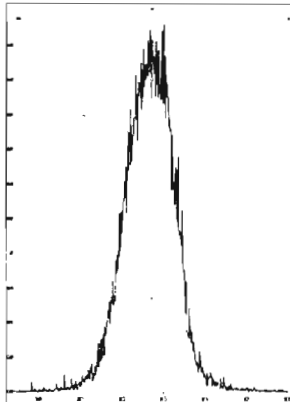
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, December 16, 2020 08:02:15 Pacific Standard Time

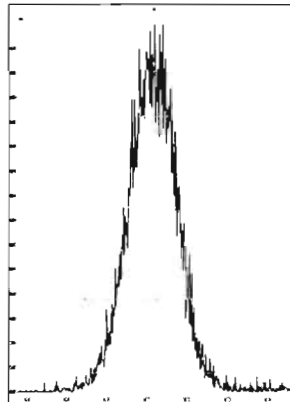
M 318.9792 R 12254



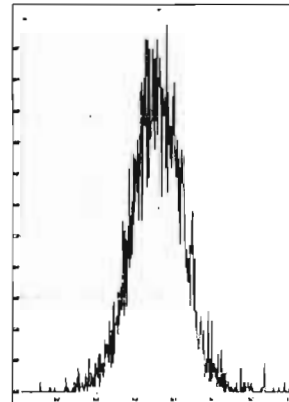
M 330.9792 R 12565



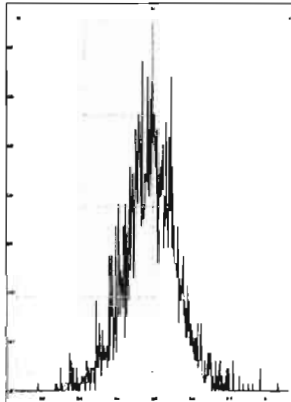
M 342.9792 R 12690



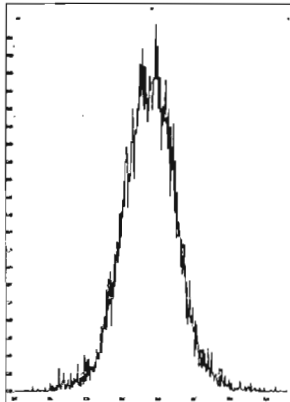
M 354.9792 R 12693



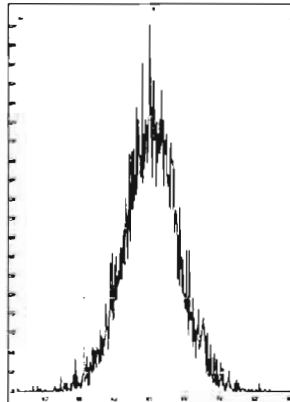
M 366.9792 R 12755



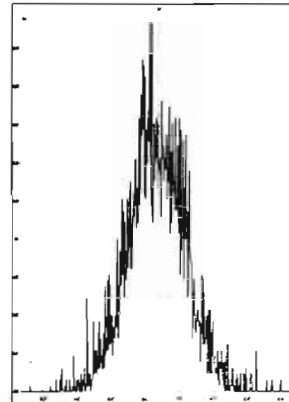
M 380.9760 R 11362



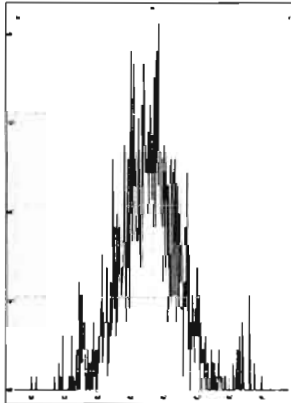
M 392.9760 R 11161



M 404.9760 R 10868



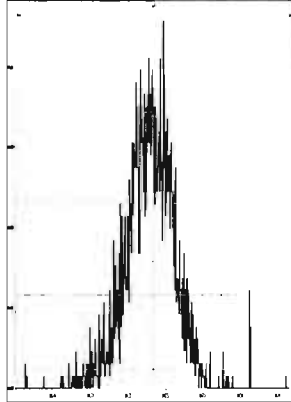
M 416.9760 R 14882



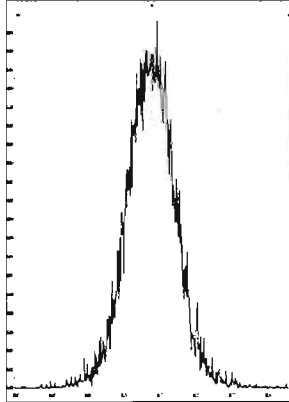
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, December 16, 2020 08:02:41 Pacific Standard Time

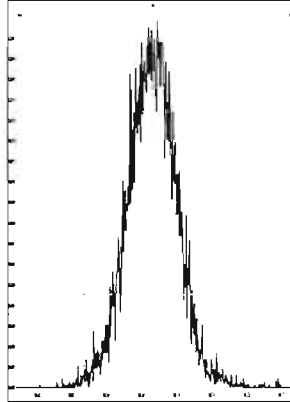
M 366.9792 R 13891



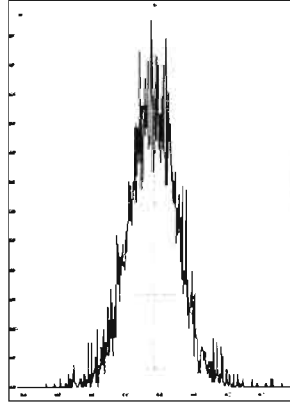
M 380.9760 R 12626



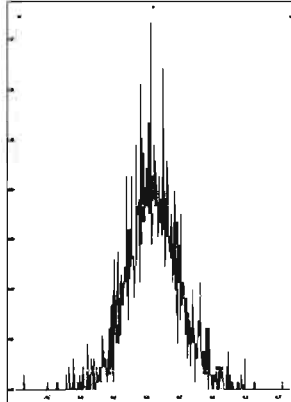
M 392.9760 R 13160



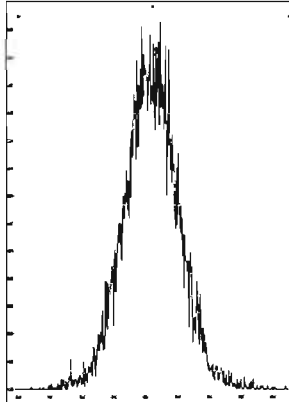
M 404.9760 R 12438



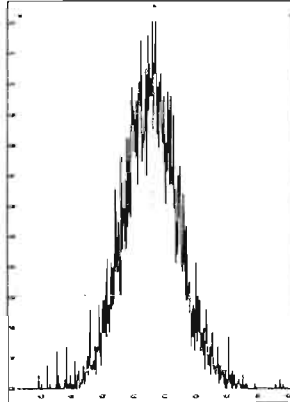
M 416.9760 R 13664



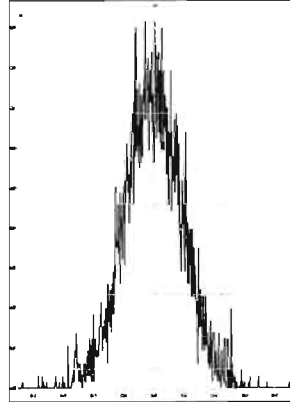
M 430.9728 R 11738



M 442.9728 R 10372



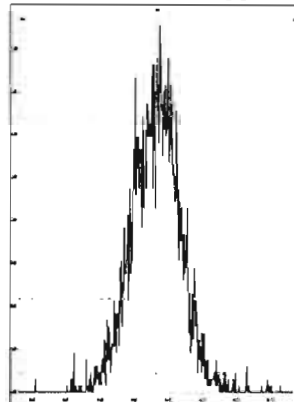
M 454.9728 R 11625



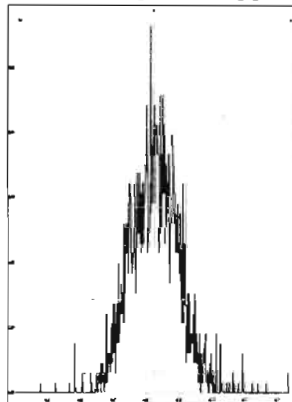
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, December 16, 2020 08:03:07 Pacific Standard Time

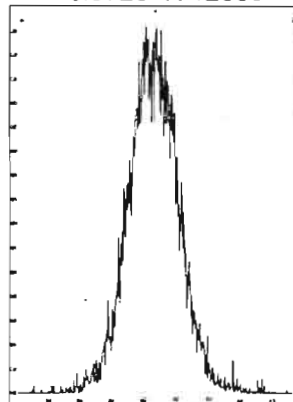
M 404.9760 R 13657



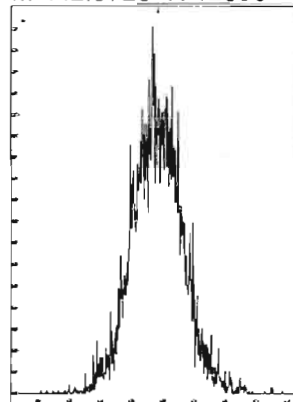
M 416.9760 R 14366



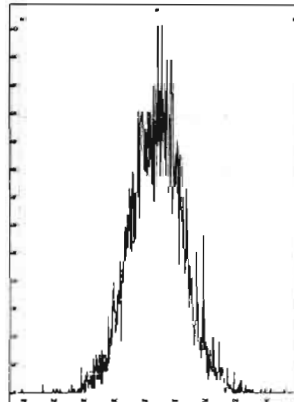
M 430.9728 R 12883



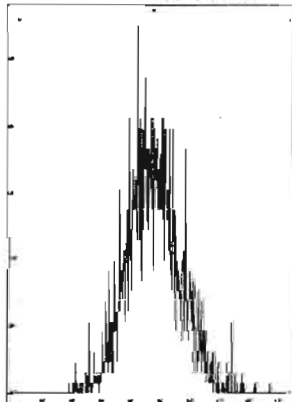
M 442.9728 R 12690



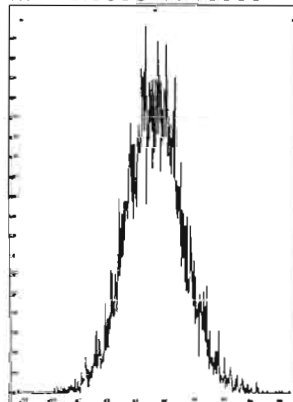
M 454.9728 R 13091



M 466.9728 R 11737



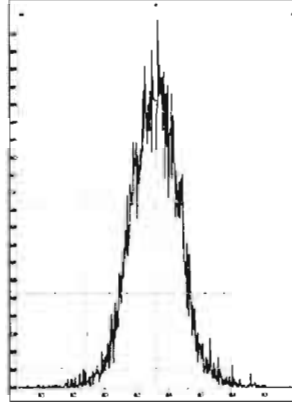
M 480.9696 R 10595



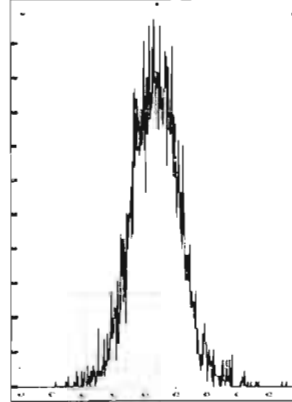
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, December 16, 2020 08:03:32 Pacific Standard Time

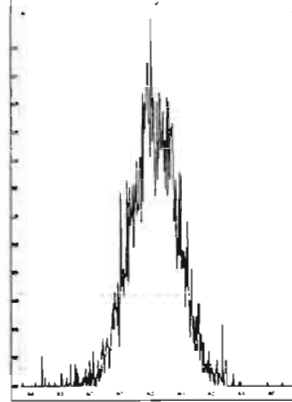
M 430.9728 R 13157



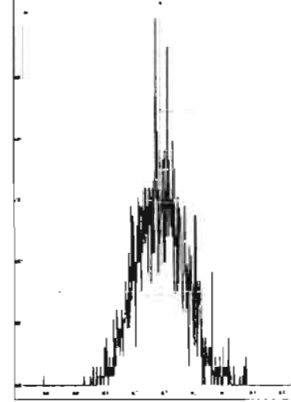
M 442.9728 R 13371



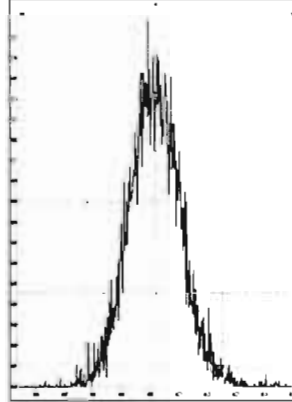
M 454.9728 R 12626



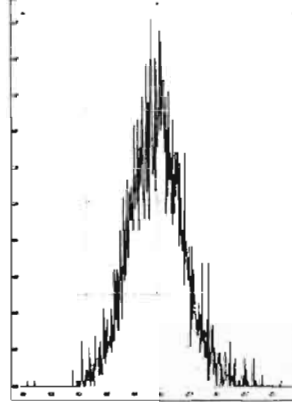
M 466.9728 R 14043



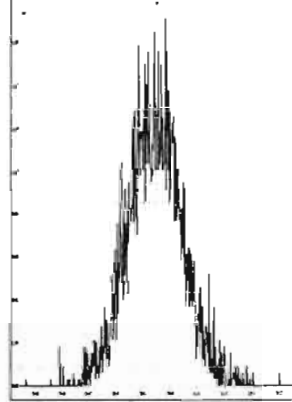
M 480.9696 R 12950



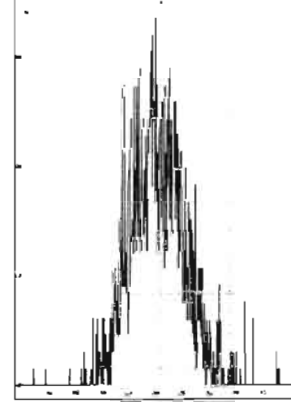
M 492.9696 R 12018



M 504.9696 R 12951



M 516.9697 R 14534



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_CPSM.qld

Last Altered: Wednesday, December 16, 2020 9:39:38 AM Pacific Standard Time
Printed: Wednesday, December 16, 2020 9:41:12 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201216R1_1, Date: 16-Dec-2020, Time: 08:12:18, ID: ST201216R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.53
2	2 1,2,8,9-TCDD (Last)	27.27
3	3 1,2,4,7,9-PeCDD (First)	28.80
4	4 1,2,3,8,9-PeCDD (Last)	31.41
5	5 1,2,4,6,7,9-HxCDD (First)	32.71
6	6 1,2,3,7,8,9-HxCDD (Last)	34.73
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.18
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.20
9	9 1,3,6,8-TCDF (First)	20.27
10	10 1,2,8,9-TCDF (Last)	27.56
11	11 1,3,4,6,8-PeCDF (First)	27.13
12	12 1,2,3,8,9-PeCDF (Last)	31.76
13	13 1,2,3,4,6,8-HxCDF (First)	32.18
14	14 1,2,3,7,8,9-HxCDF (Last)	35.24
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.80
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.82

Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\201216R1\201216R1_CPSM.qld

Last Altered: Wednesday, December 16, 2020 9:39:38 AM Pacific Standard Time

Printed: Wednesday, December 16, 2020 9:41:12 AM Pacific Standard Time

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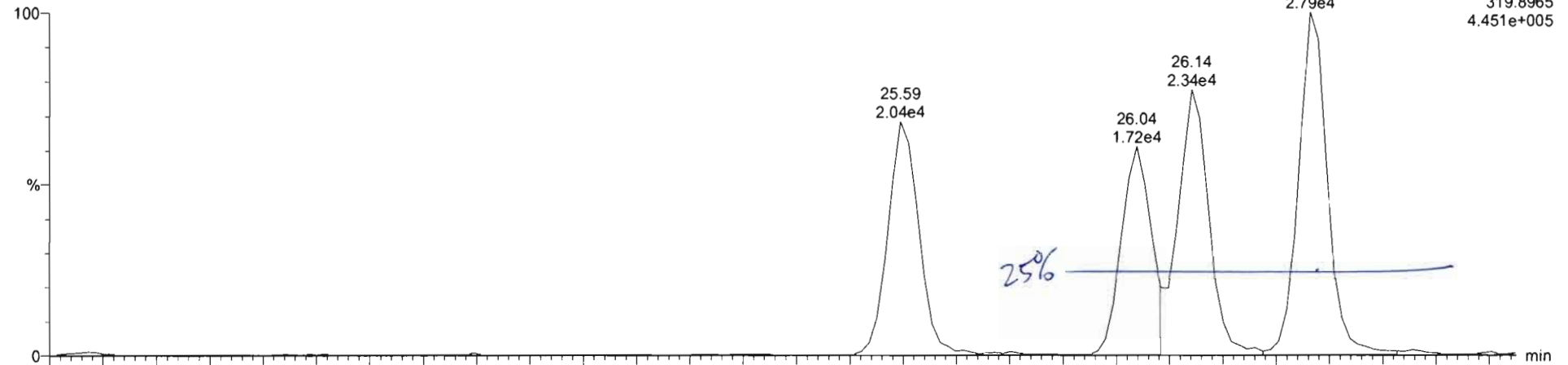
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

HN 12/16/2020
GRB 12/18/2020

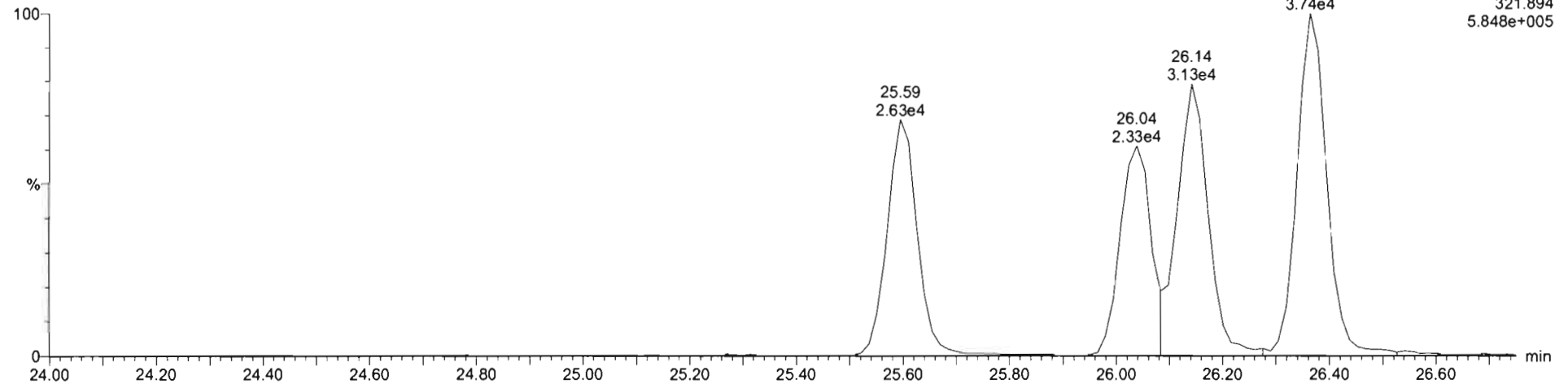
Name: 201216R1_1, Date: 16-Dec-2020, Time: 08:12:18, ID: ST201216R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)

201216R1_1



201216R1_1



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_CPSM.qld

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Printed: Wednesday, December 16, 2020 9:41:12 AM Pacific Standard Time

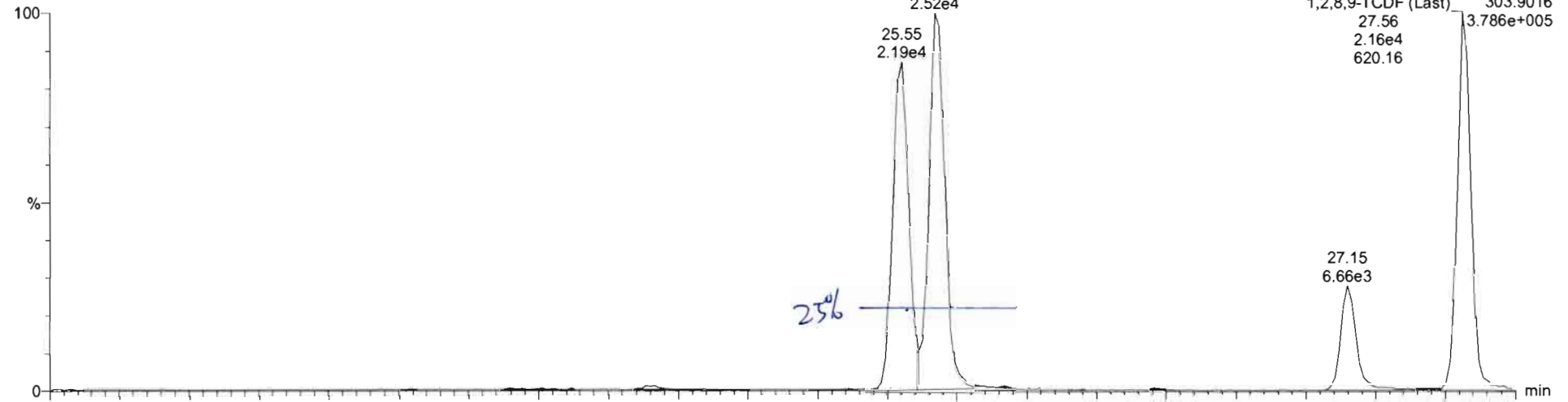
FIN 12/16/2020

GRB 12/18/2020

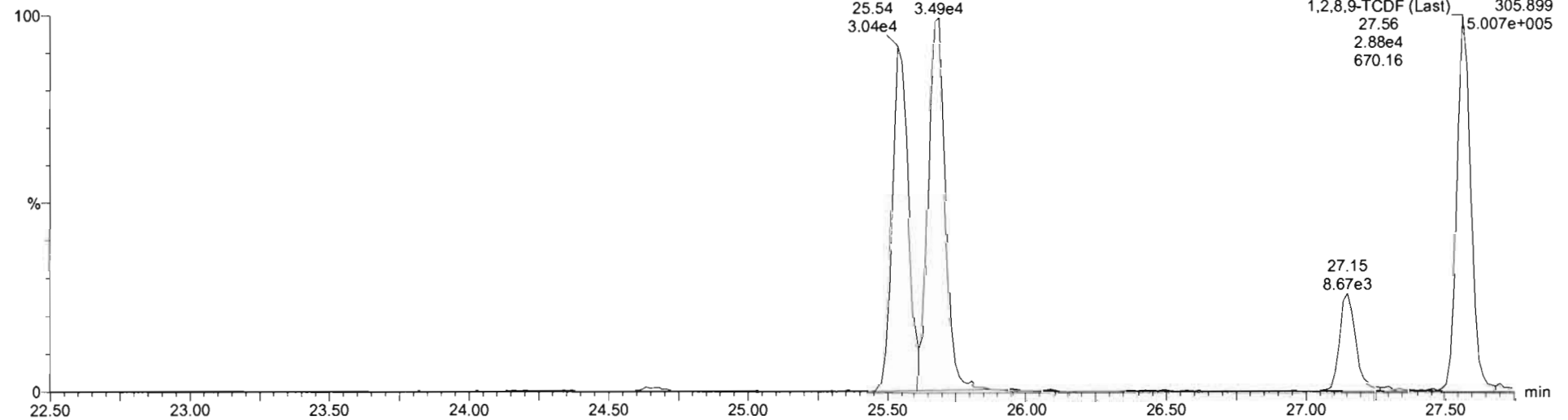
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1,3,6,8-TCDF (First)

201216R1_1



201216R1_1



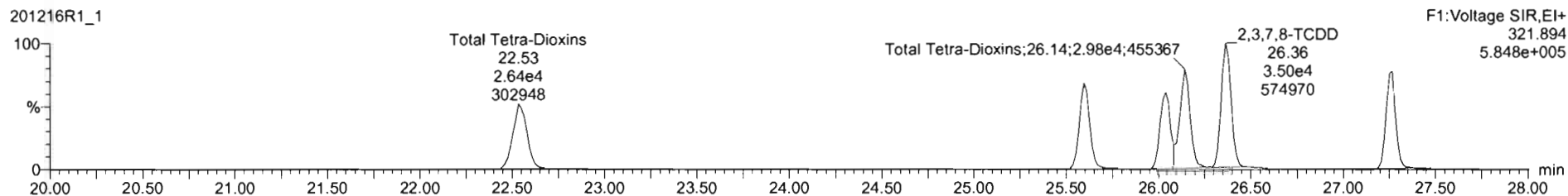
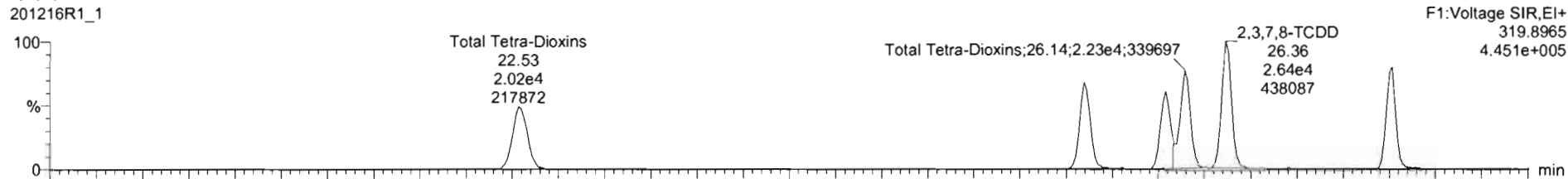
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Last Altered: Wednesday, December 16, 2020 9:06:01 AM Pacific Standard Time
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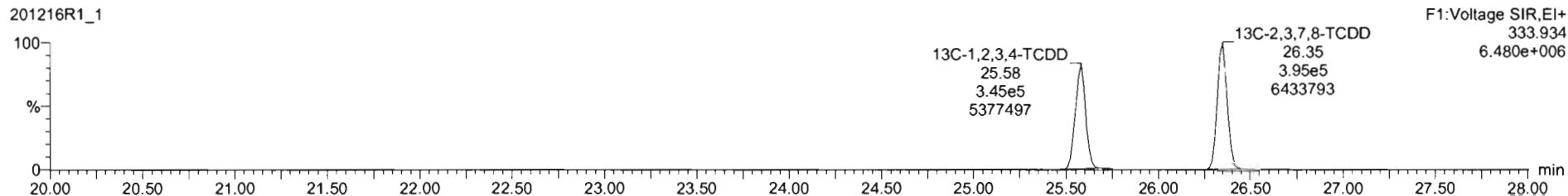
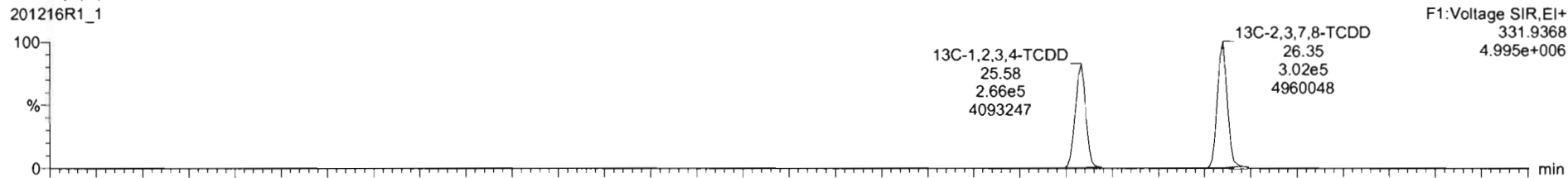
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Name: 201216R1_1, Date: 16-Dec-2020, Time: 08:12:18, ID: ST201216R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD



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



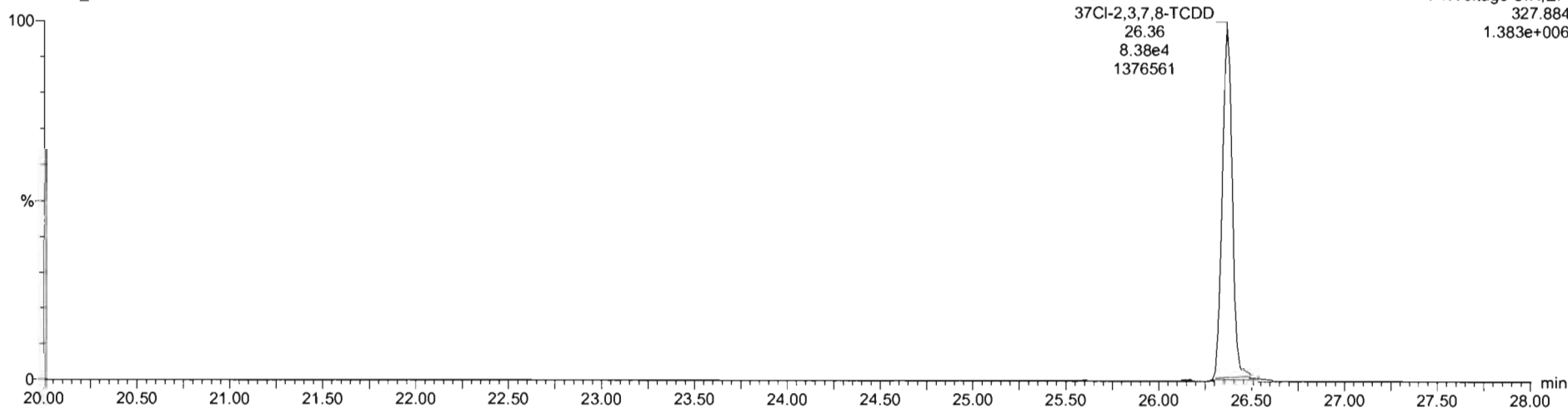
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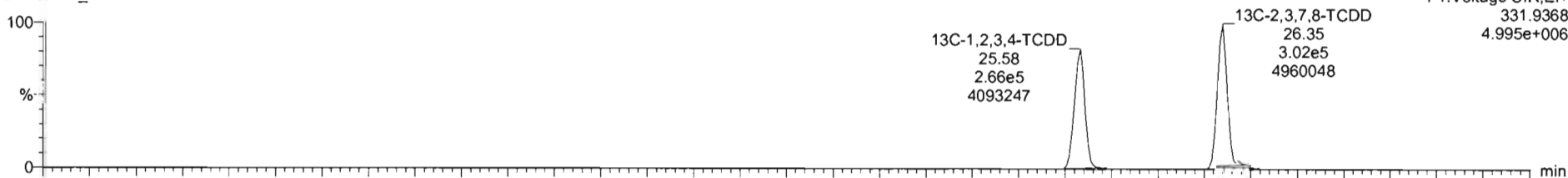
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201216R1_1

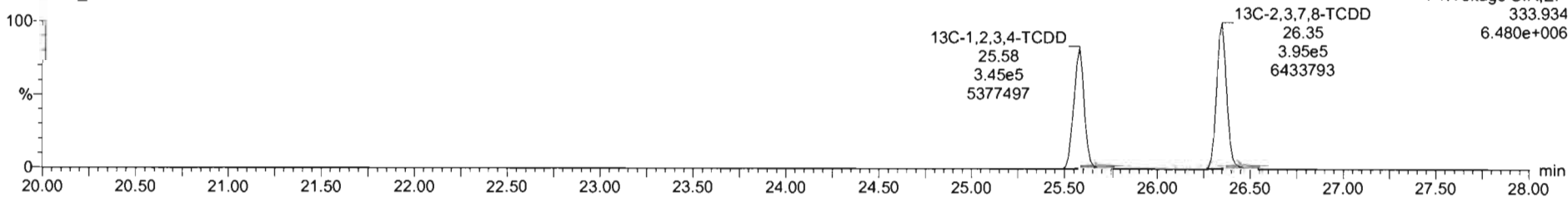


13C-1,2,3,4-TCDD

201216R1_1



201216R1_1



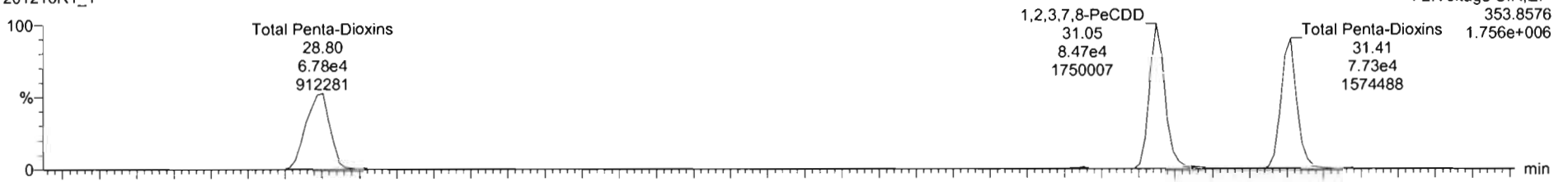
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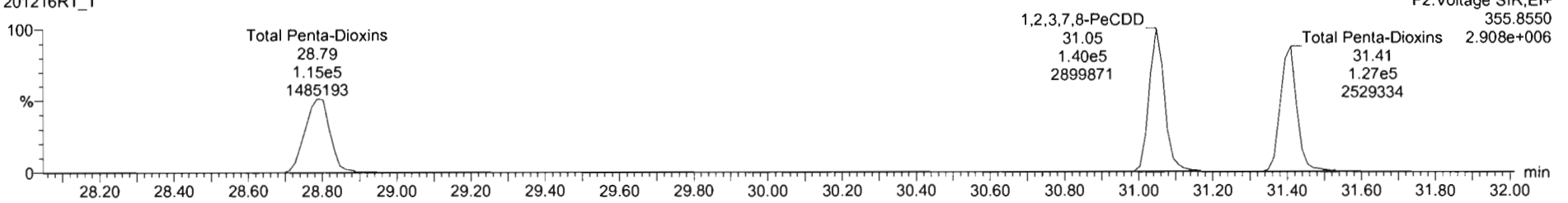
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1,2,3,7,8-PeCDD

201216R1_1

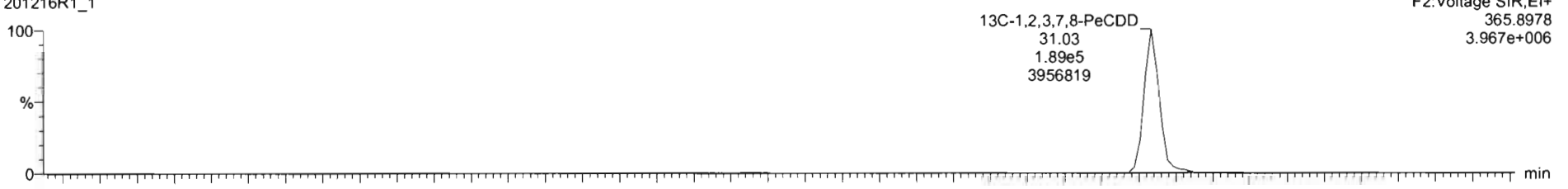


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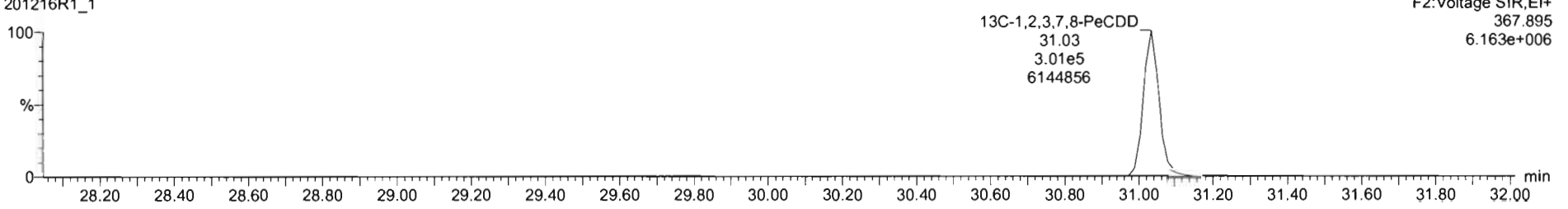


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201216R1_1



201216R1_1

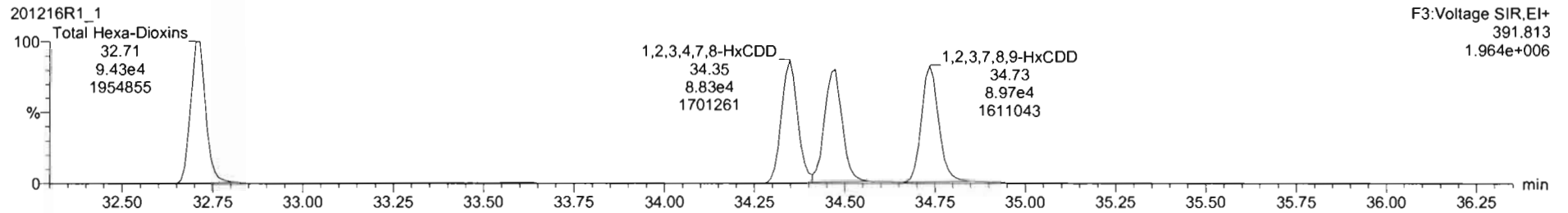
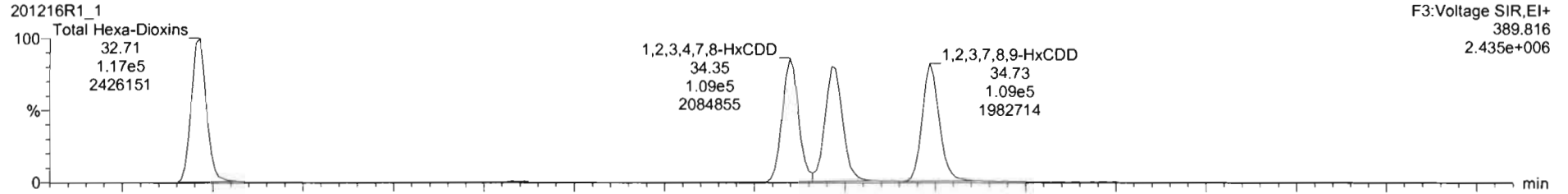


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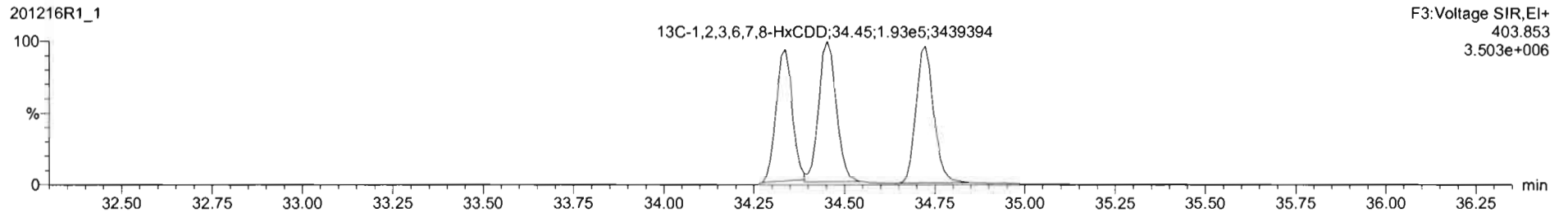
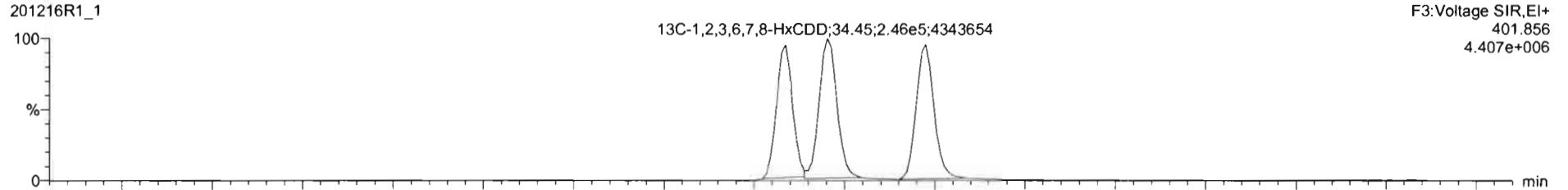
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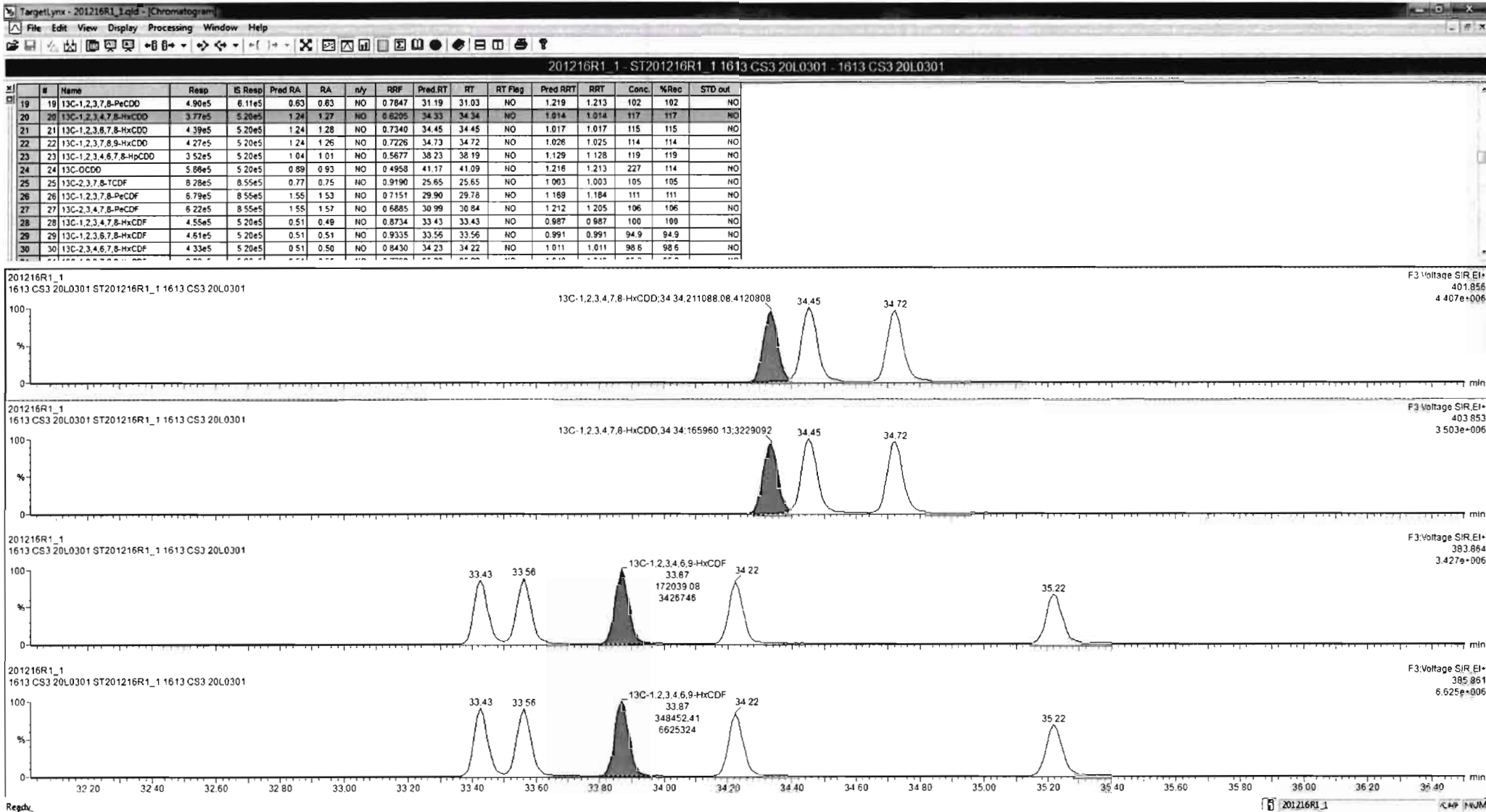
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1,2,3,4,7,8-HxCDD



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



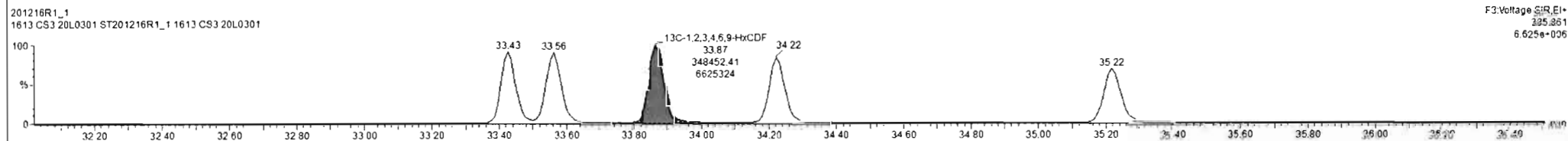
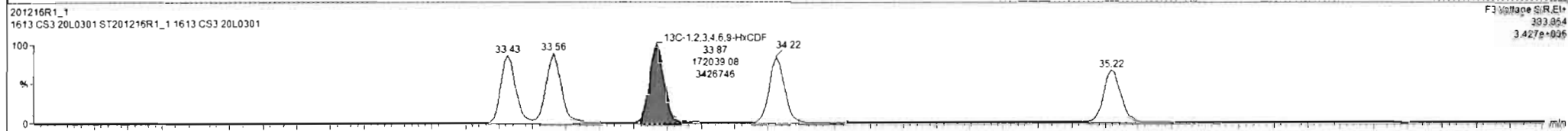
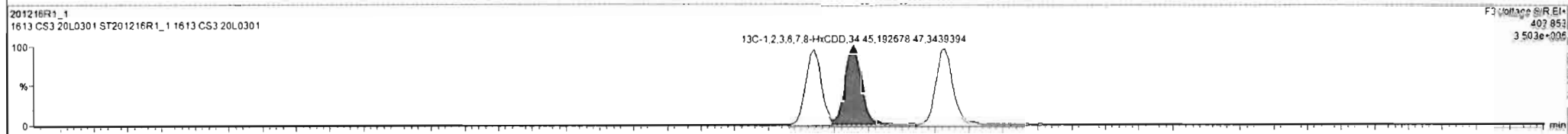
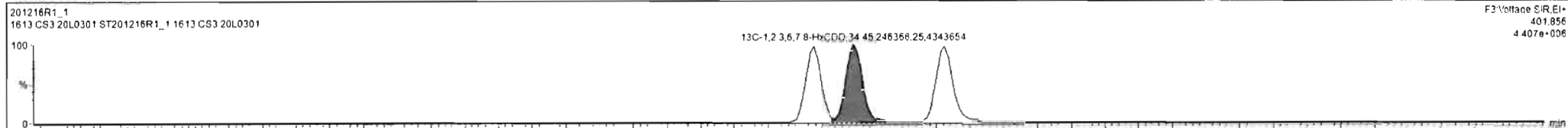


TargetLynx - 201216R1_1.qid - [Chromatogram]

File Edit View Display Processing Window Help

201216R1_1 - ST201216R1_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Name	Resp	IS Resp	Prod RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
19	13C-1,2,3,7,8-PeCDD	4.90e5	6.11e5	0.63	0.63	NO	0.7847	31.19	31.03	NO	1.219	1.213	102	102	NO
20	13C-1,2,3,4,7,8-HxCDD	3.77e5	5.20e5	1.24	1.27	NO	0.6205	34.33	34.34	NO	1.014	1.014	117	117	NO
21	13C-1,2,3,6,7,8-HxCDD	4.39e5	5.20e5	1.24	1.26	NO	0.7340	34.45	34.45	NO	1.017	1.017	115	115	NO
22	13C-1,2,3,7,8-HxCDD	4.27e5	5.20e5	1.24	1.26	NO	0.7226	34.73	34.72	NO	1.026	1.025	114	114	NO
23	13C-1,2,3,4,6,7,8-HxCDD	3.52e5	5.20e5	1.04	1.01	NO	0.5677	38.23	38.19	NO	1.129	1.128	119	119	NO
24	13C-OCDD	5.89e5	5.20e5	0.89	0.93	NO	0.4958	41.17	41.09	NO	1.218	1.213	227	114	NO
25	13C-2,3,7,8-TCDF	8.28e5	8.55e5	0.77	0.75	NO	0.9190	25.65	25.65	NO	1.003	1.003	105	105	NO
26	13C-1,2,3,7,8-PeCDF	6.79e5	8.55e5	1.55	1.53	NO	0.7151	29.90	29.78	NO	1.169	1.164	111	111	NO
27	13C-2,3,4,7,8-PeCDF	6.22e5	8.55e5	1.55	1.57	NO	0.6885	30.99	30.84	NO	1.212	1.205	106	106	NO
28	13C-1,2,3,4,7,8-HxCDF	4.55e5	5.20e5	0.51	0.49	NO	0.8734	33.43	33.43	NO	0.987	0.987	100	100	NO
29	13C-1,2,3,6,7,8-HxCDF	4.61e5	5.20e5	0.51	0.51	NO	0.9335	33.56	33.56	NO	0.991	0.991	94.9	94.9	NO
30	13C-2,3,4,6,7,8-HxCDF	4.33e5	5.20e5	0.51	0.50	NO	0.8430	34.23	34.22	NO	1.011	1.011	98.6	98.6	NO



Regdx 201216R1_1 CAP NUM

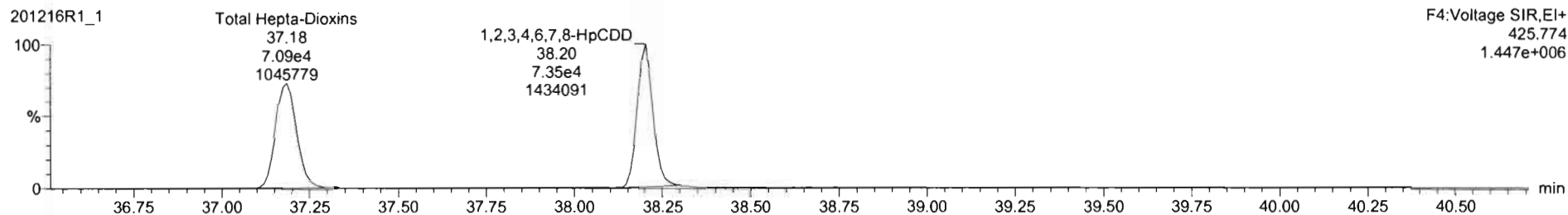
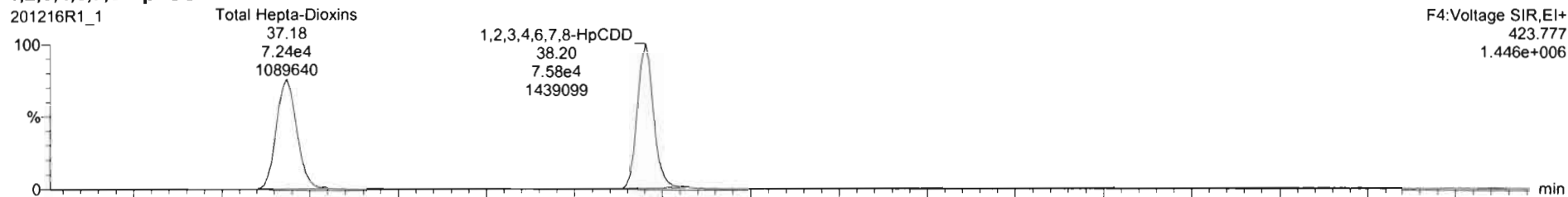
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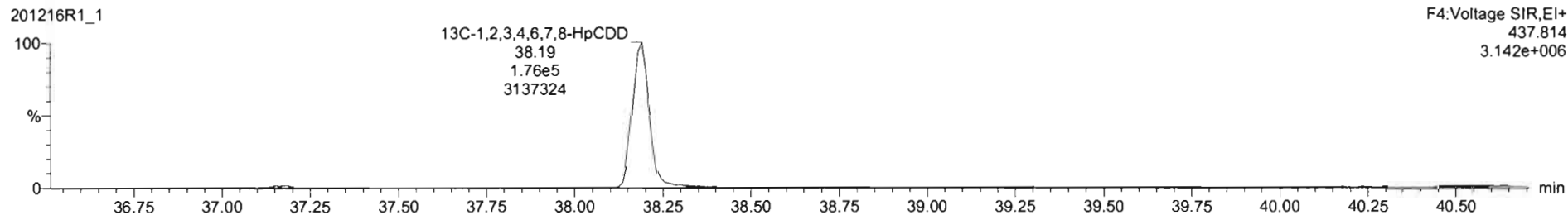
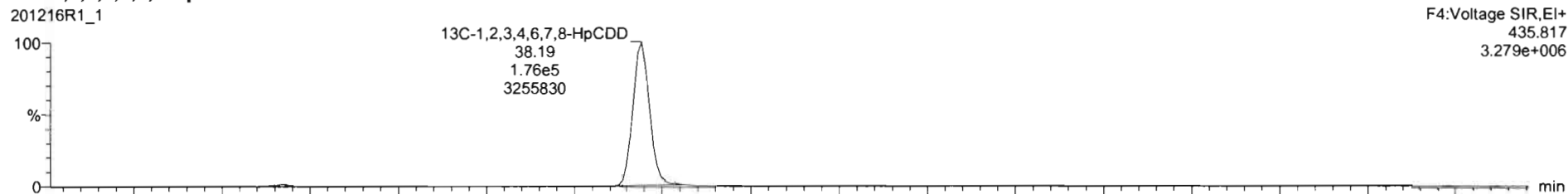
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1,2,3,4,6,7,8-HpCDD



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



Dataset: U:\VG12.PRO\Results\201216R1\201216R1_1.qld

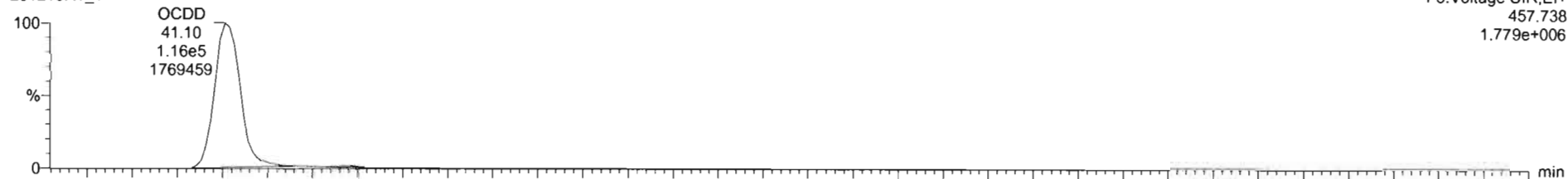
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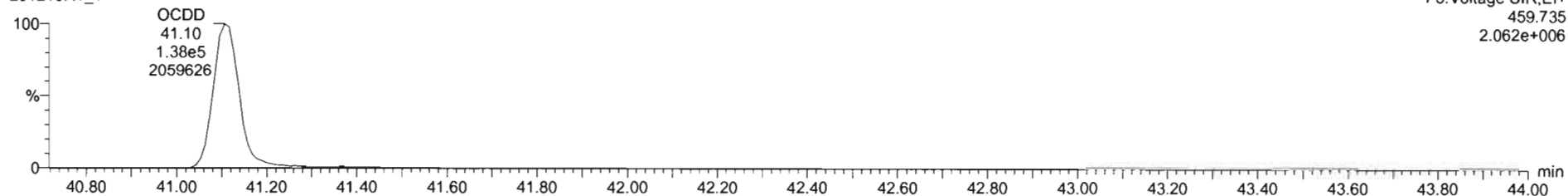
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OCDD

201216R1_1

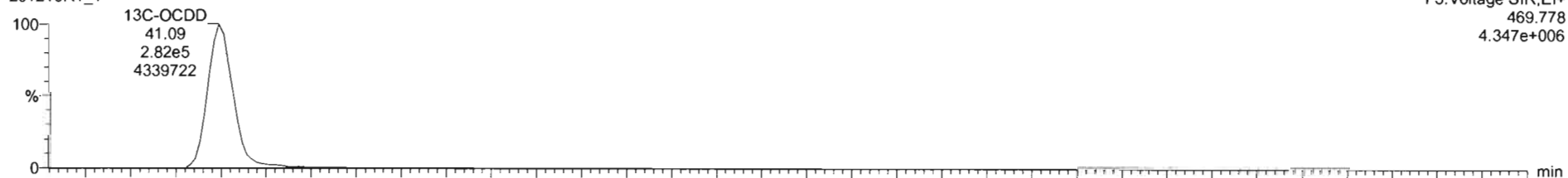


201216R1_1

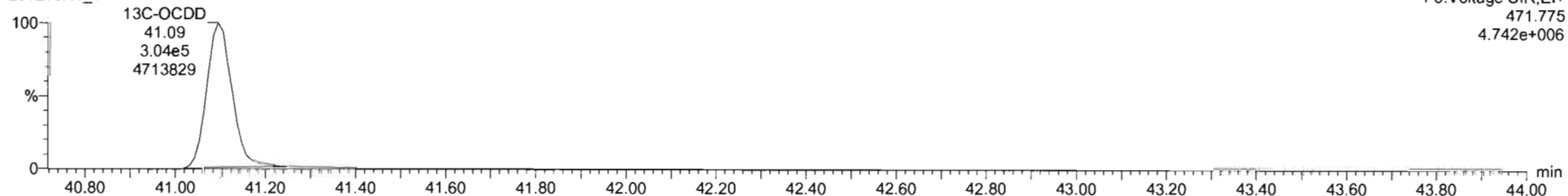


13C-OCDD

201216R1_1



201216R1_1



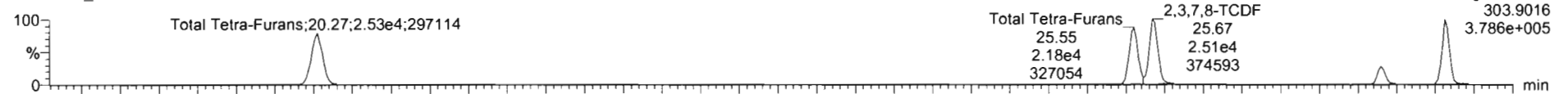
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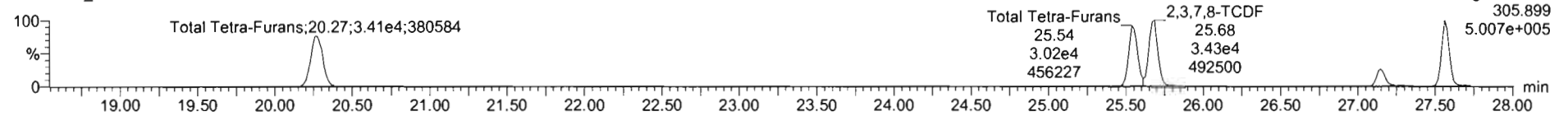
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2,3,7,8-TCDF

201216R1_1

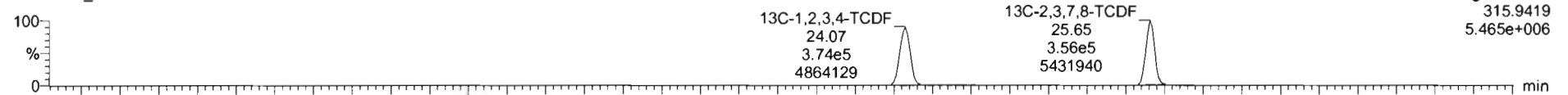


201216R1_1

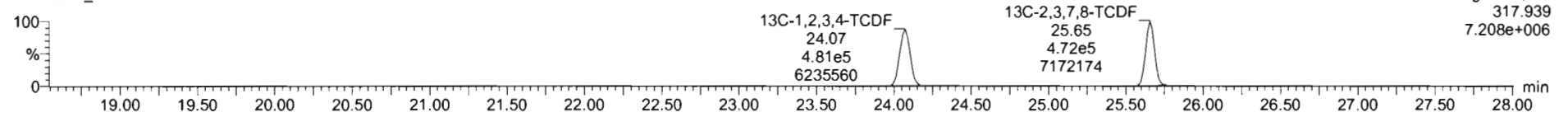


13C-2,3,7,8-TCDF

201216R1_1

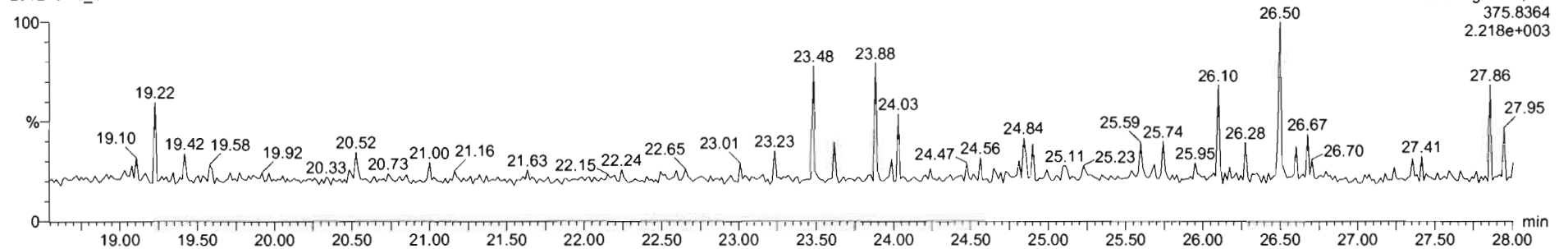


201216R1_1



DPE1

201216R1_1



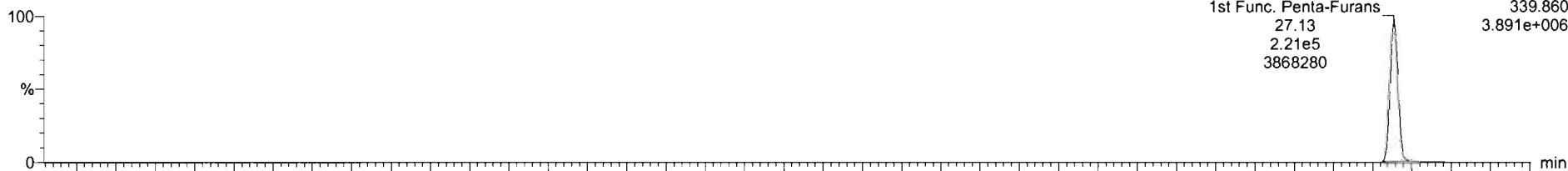
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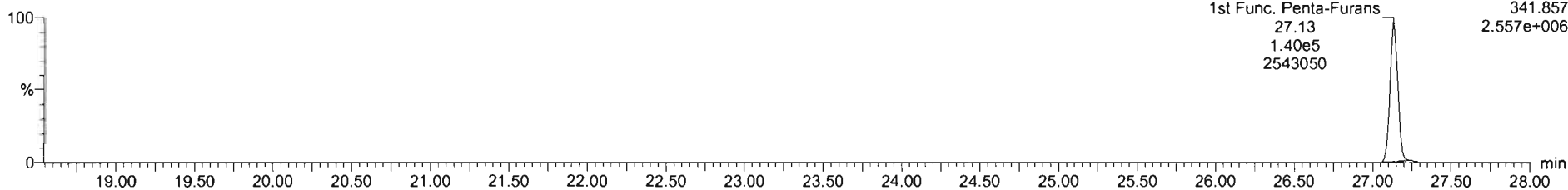
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201216R1_1

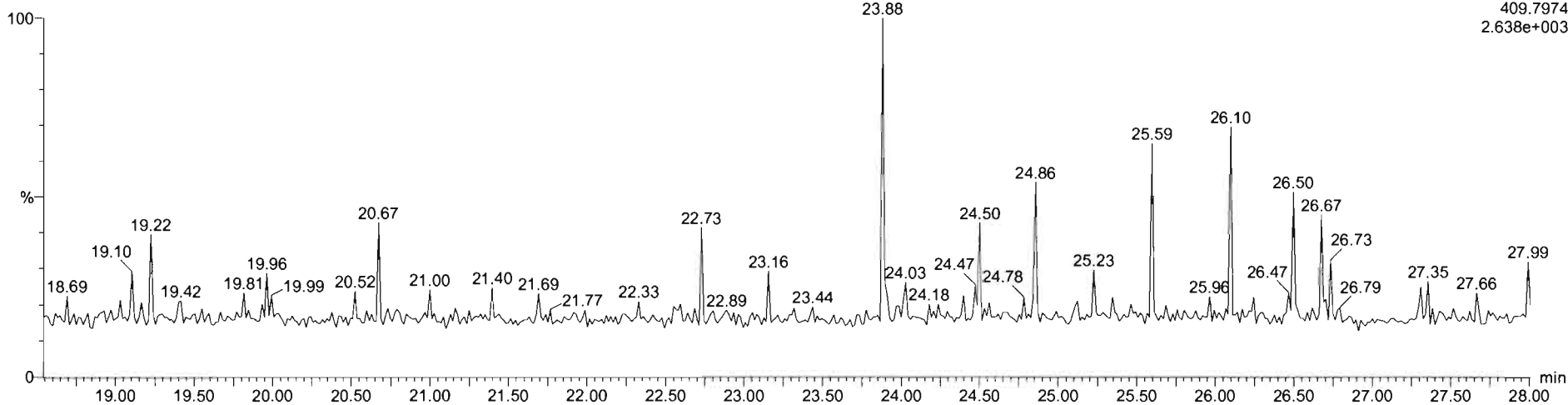


201216R1_1



DPE6

201216R1_1



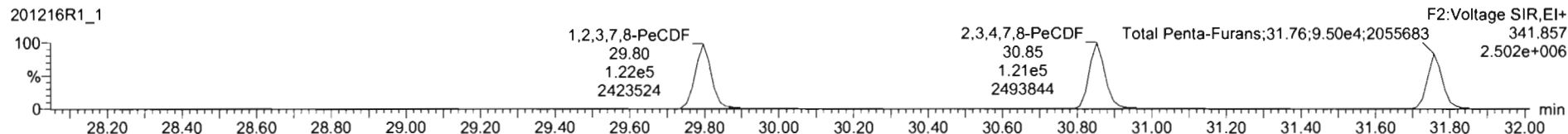
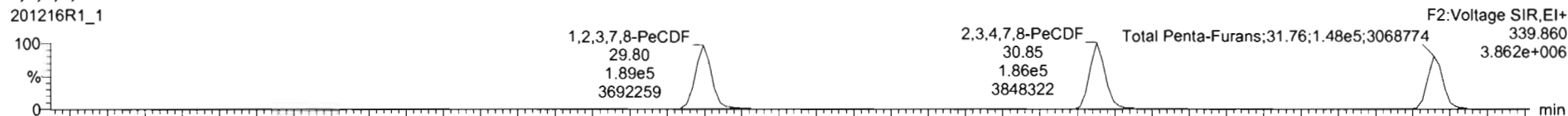
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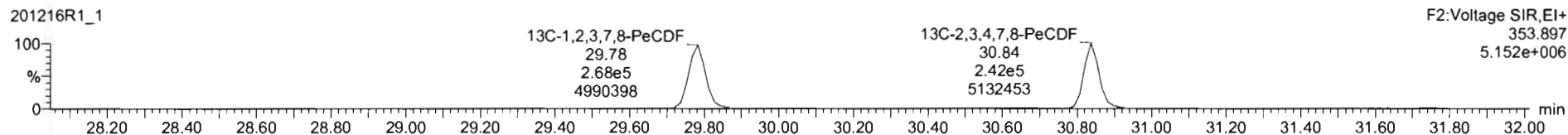
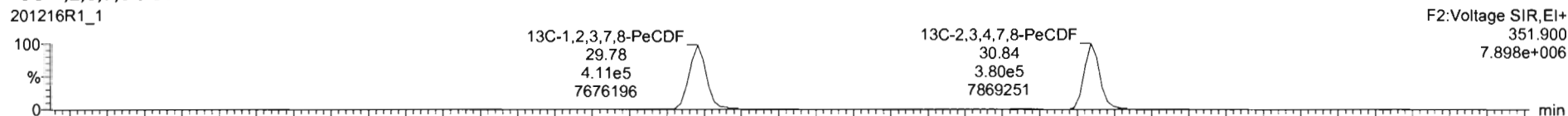
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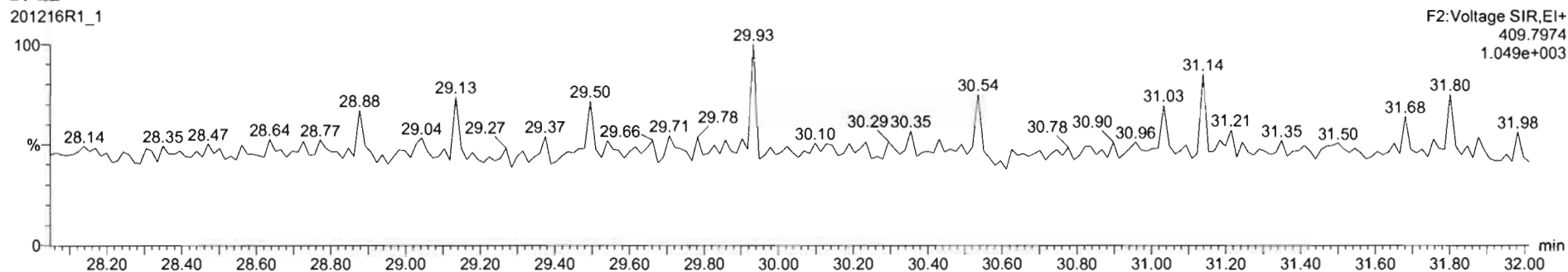
1,2,3,7,8-PeCDF



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



DPE2

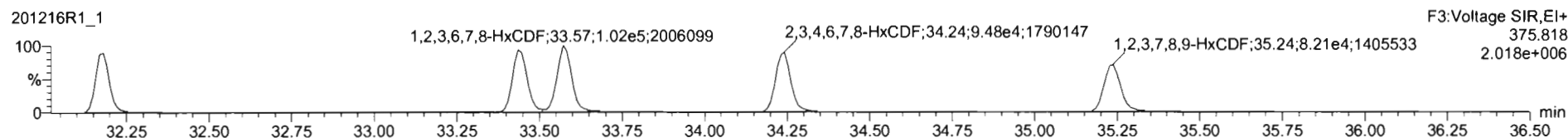
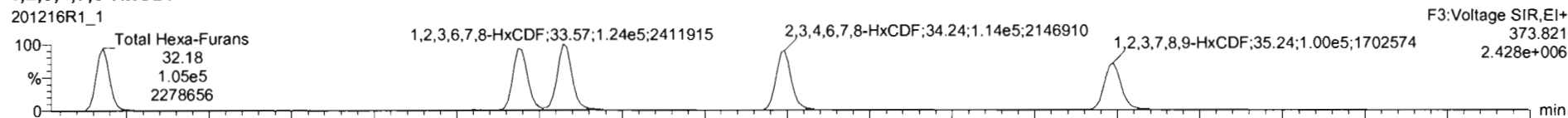


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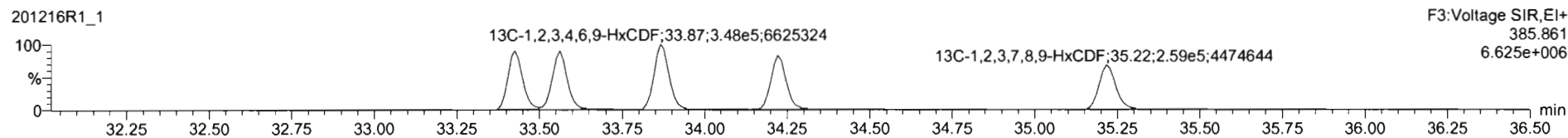
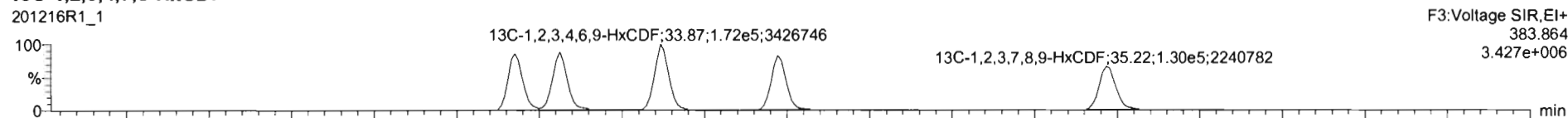
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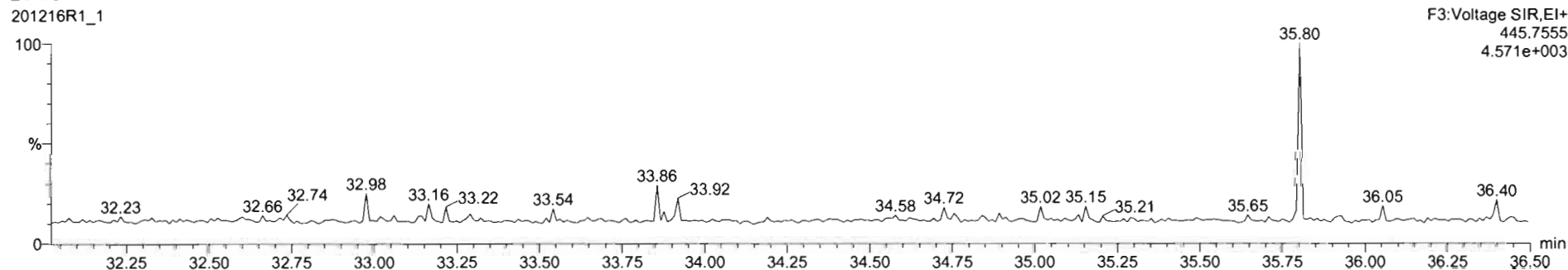
1,2,3,4,7,8-HxCDF



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



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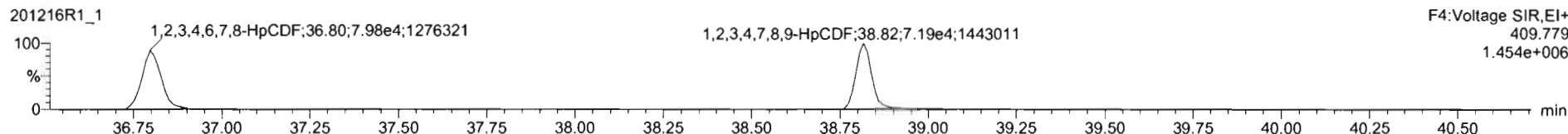
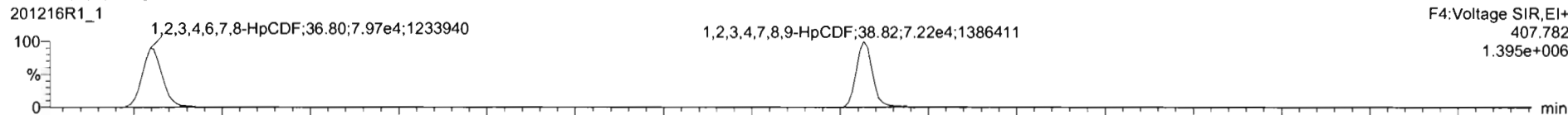


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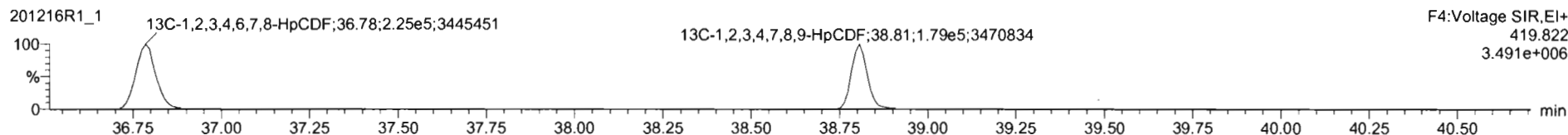
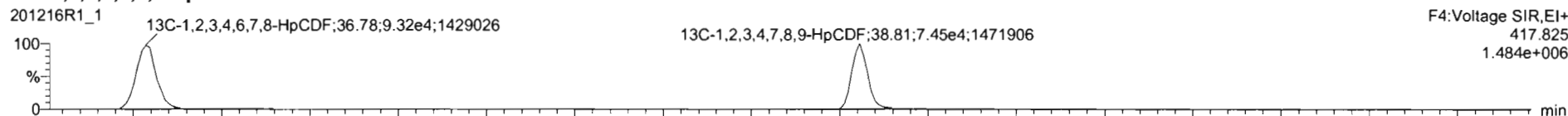
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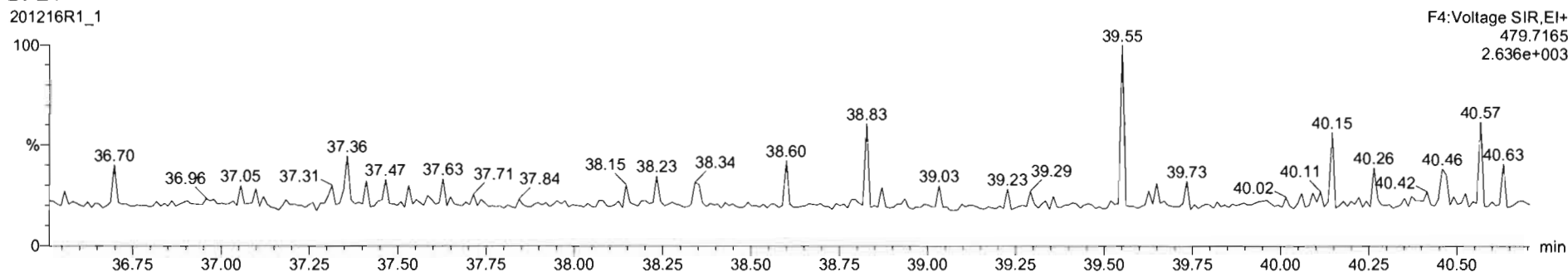
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13C-1,2,3,4,6,7,8-HpCDF



DPE4

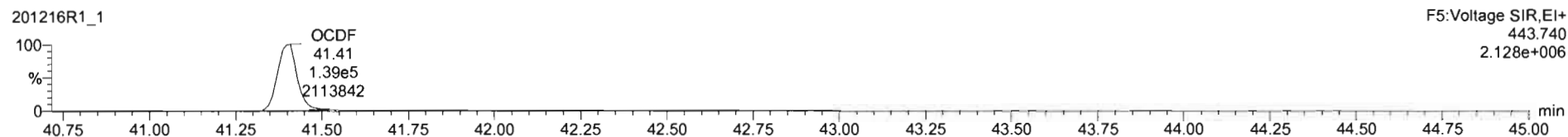
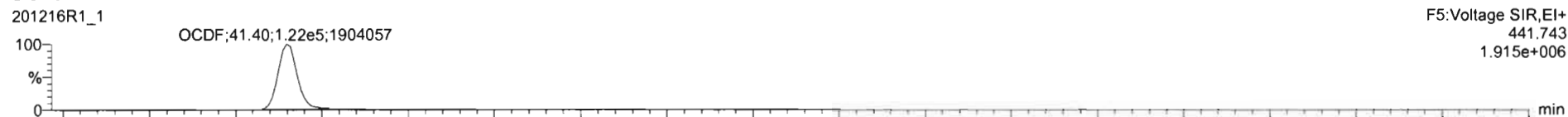


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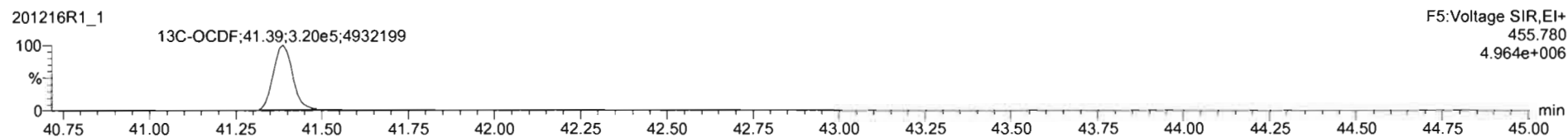
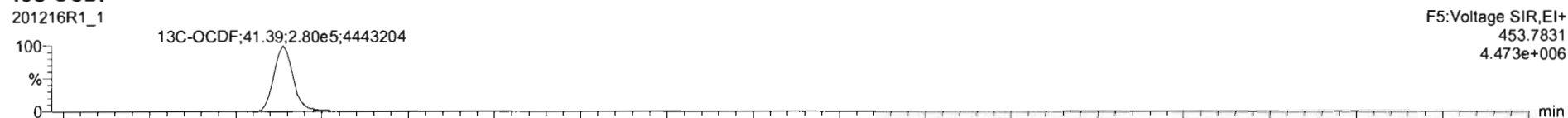
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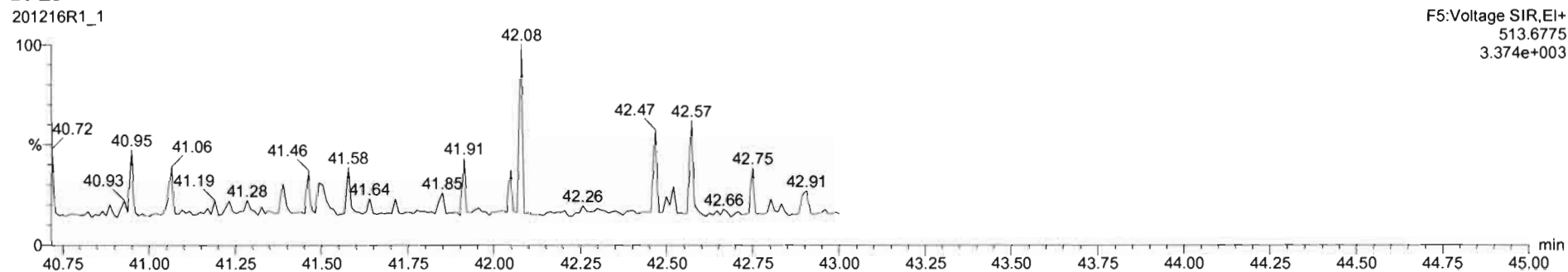
OCDF



13C-OCDF



DPE5



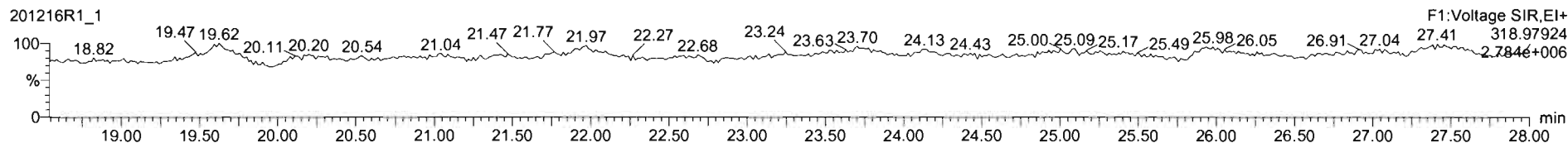
Dataset: U:\VG12.PRO\Results\201216R1\201216R1_1.qld

Last Altered: Wednesday, December 16, 2020 9:06:01 AM Pacific Standard Time

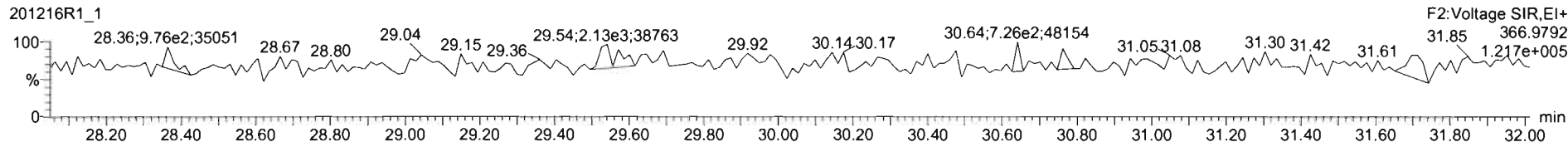
Printed: Wednesday, December 16, 2020 9:36:50 AM Pacific Standard Time

Name: 201216R1_1, Date: 16-Dec-2020, Time: 08:12:18, ID: ST201216R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

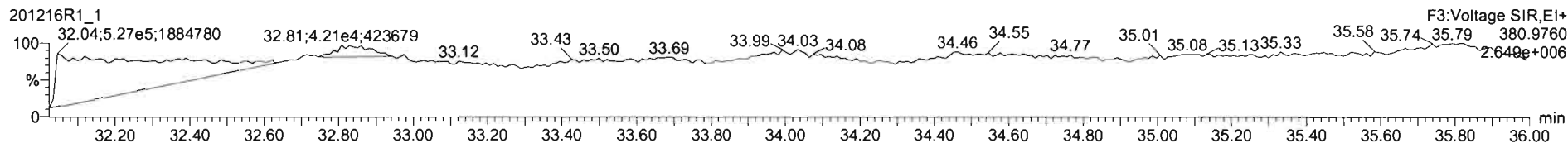
PFK1



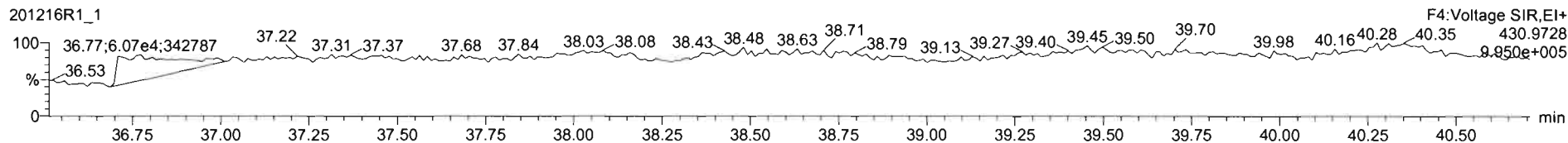
PFK2



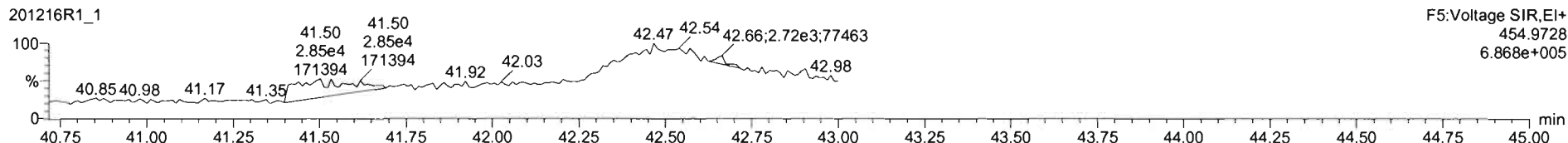
PFK3



PFK4

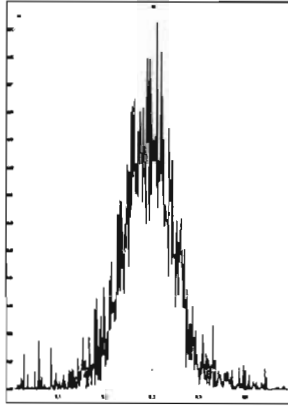


PFK5

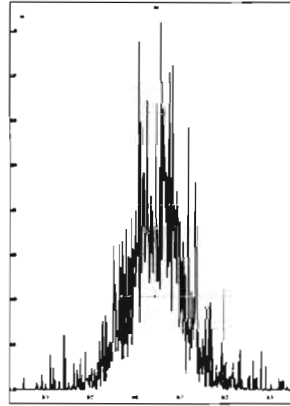


Printed: Wednesday, December 16, 2020 19:08:59 Pacific Standard Time

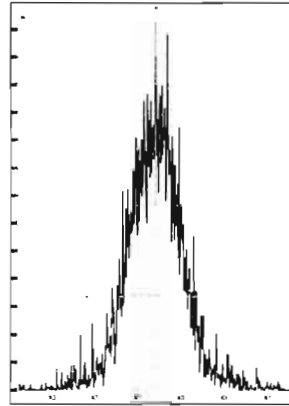
M 292.9824 R 13596



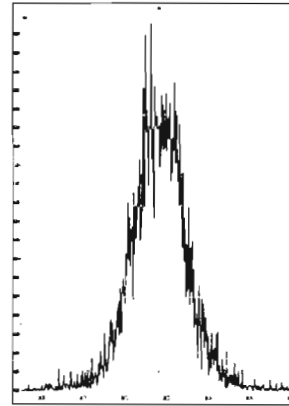
M 304.9824 R 13880



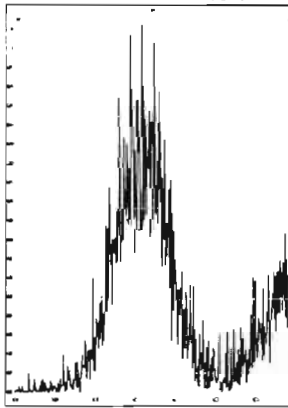
M 318.9792 R 14729



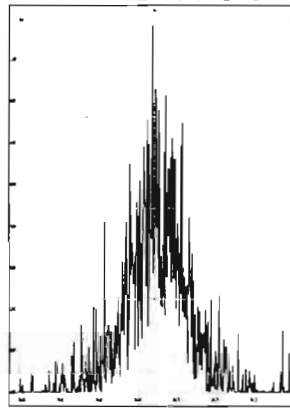
M 330.9792 R 12230



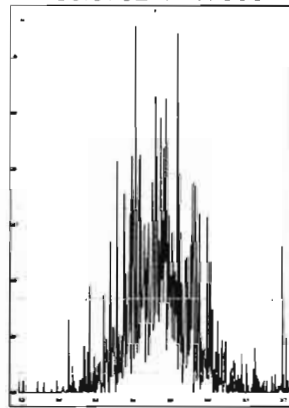
M 342.9792 R 12524



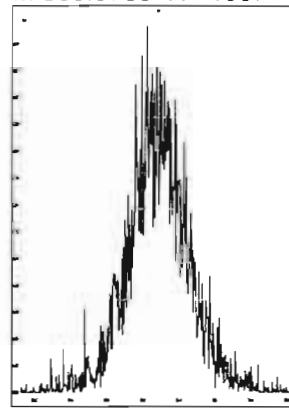
M 354.9792 R 14040



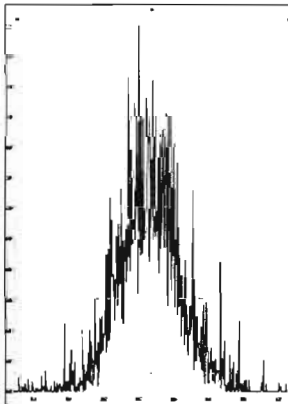
M 366.9792 R 17088



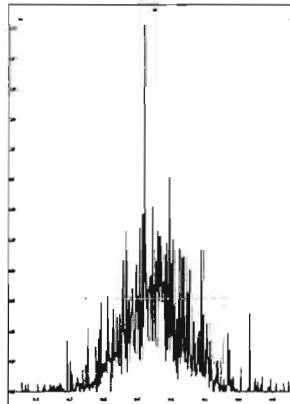
M 380.9760 R 11907



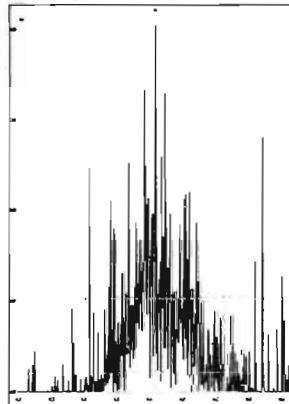
M 392.9760 R 13349



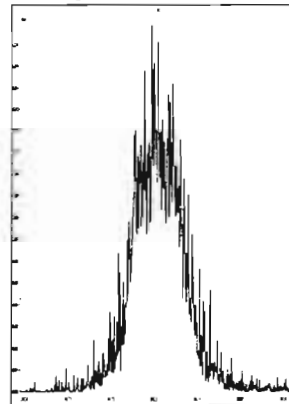
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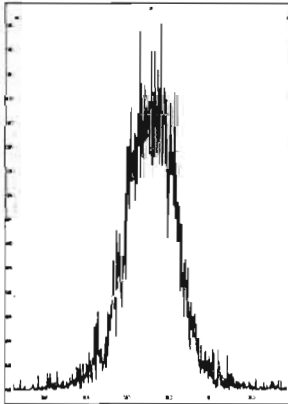
M 416.9760 R 22349



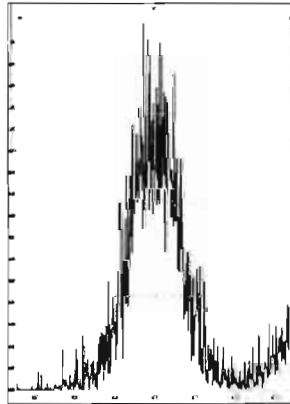
M 318.9792 R 14177



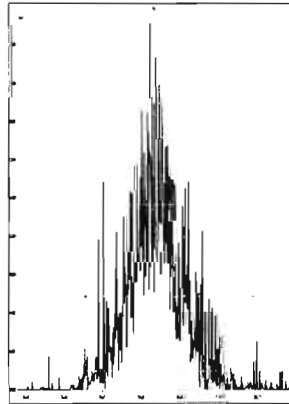
M 330.9792 R 12775



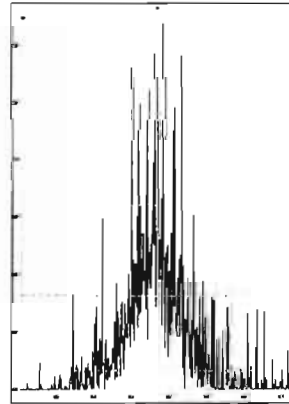
M 342.9792 R 13550



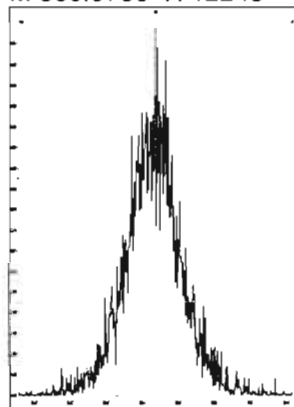
M 354.9792 R 15374



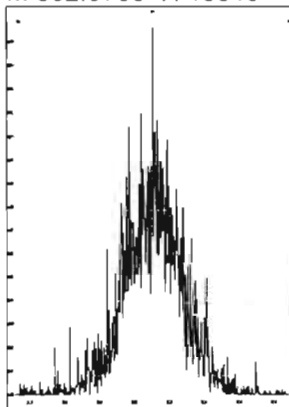
M 366.9792 R 17009



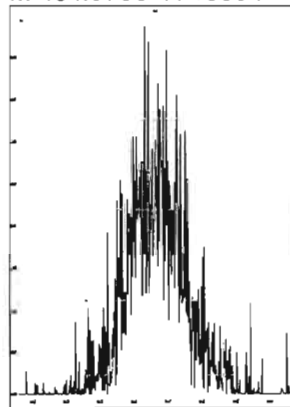
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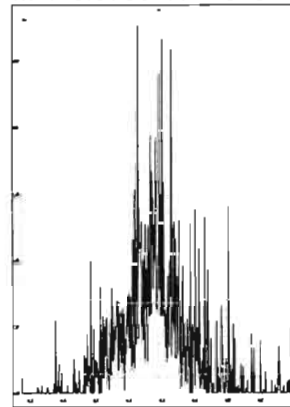
M 392.9760 R 13319



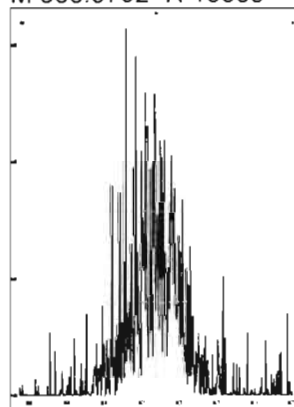
M 404.9760 R 15394



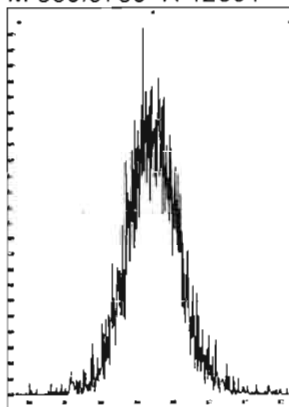
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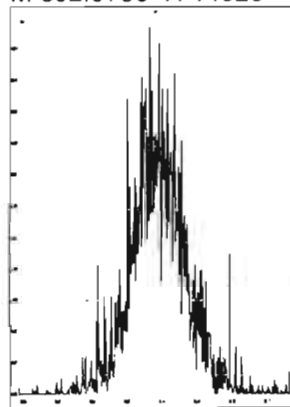
M 366.9792 R 18865



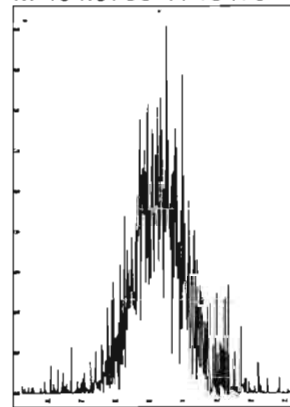
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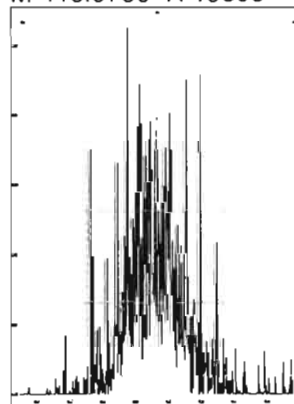
M 392.9760 R 14626



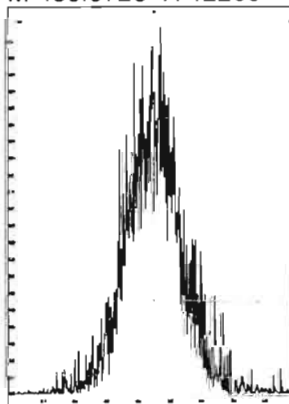
M 404.9760 R 15479



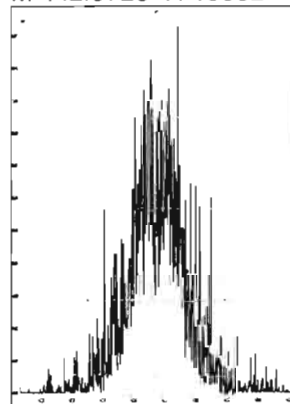
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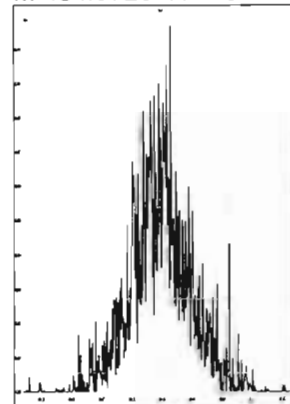
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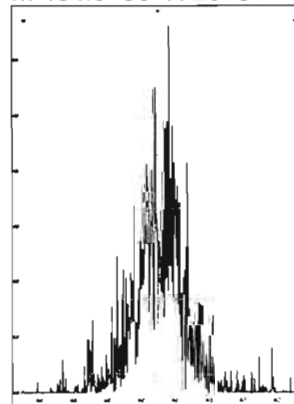
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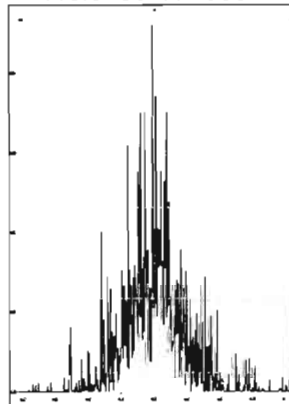
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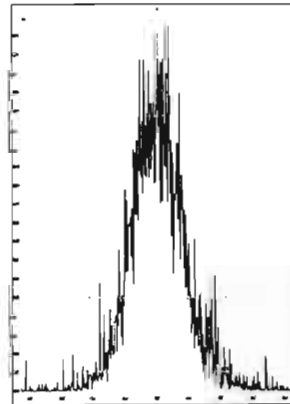
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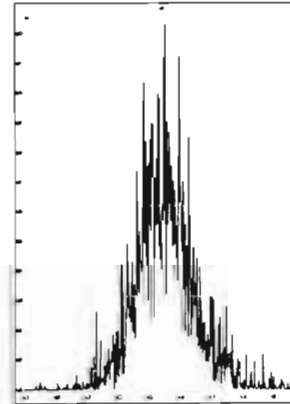
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M 430.9728 R 13855

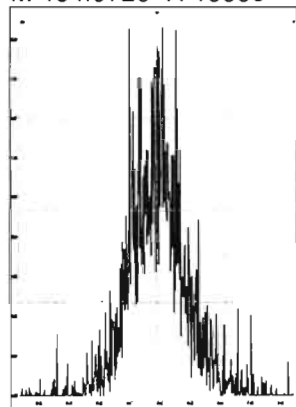


M 442.9728 R 15395

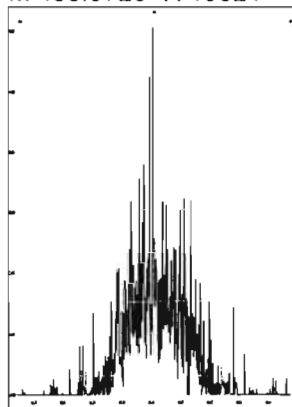


Printed: Wednesday, December 16, 2020 19:08:59 Pacific Standard Time

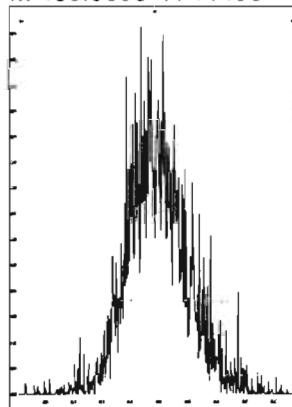
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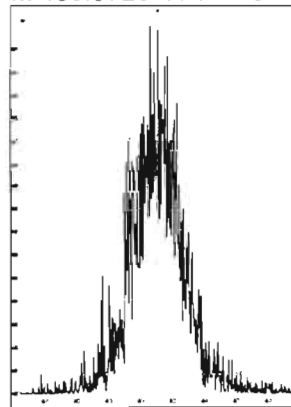
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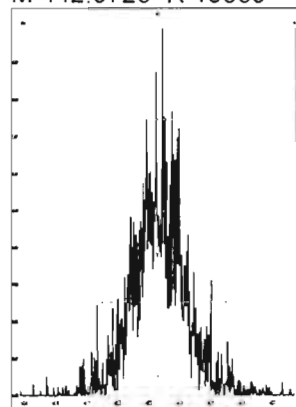
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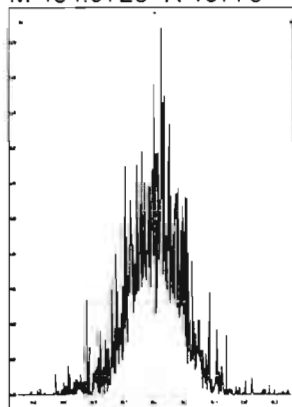
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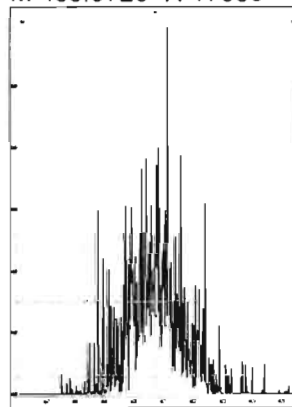
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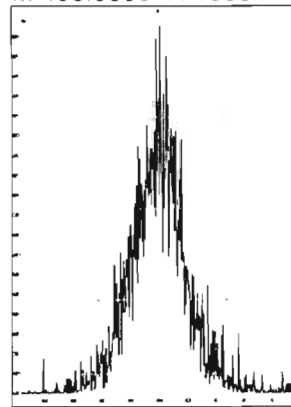
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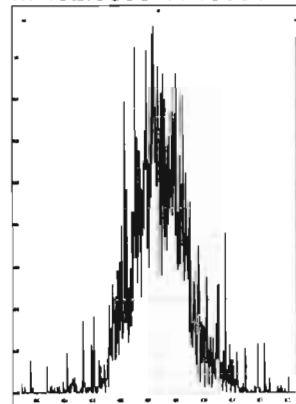
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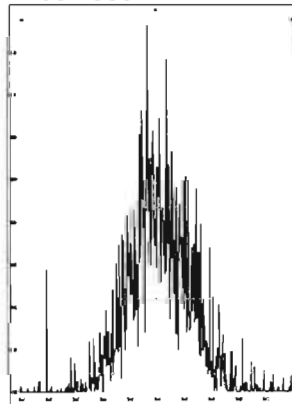
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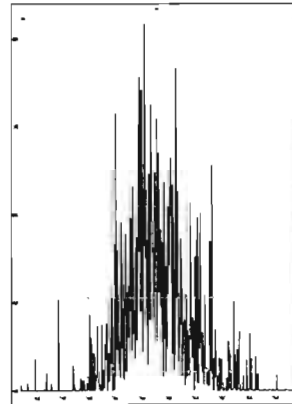
M 492.9696 R 15391



M 504.9696 R 13763



M 516.9697 R 19752



INTERNAL CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201217R4-1

Reviewed By: GPB 12/18/2020

Initials & Date

End Calibration ID: ST201217R5-1

	<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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
(ST-Year-Month-Day-VG ID)		
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<u>HIN</u>	<u>HIN</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	<u>(Y)</u>	<u>N</u>
- Bottle position verified?	<u>HIN</u>	

	<u>Beg.</u>	<u>End</u>
Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
GC Break <20%		<input type="checkbox"/> <u>NA</u>
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> <u>NA</u>

Comments:

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:36 PM Pacific Standard Time

PLN 12/17/2020
GEB 12/18/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	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	1.29e5	1.28e6	0.77	NO	0.980	26.41	26.39	NO	1.001	1.001	10.234	102	NO
2	2 1,2,3,7,8-PeCDD	4.75e5	9.81e5	0.62	NO	0.932	31.08	31.06	NO	1.001	1.000	52.022	104	NO
3	3 1,2,3,4,7,8-HxCDD	4.13e5	7.85e5	1.23	NO	1.02	34.37	34.37	NO	1.001	1.001	51.614	103	NO
4	4 1,2,3,6,7,8-HxCDD	4.11e5	8.96e5	1.24	NO	0.902	34.49	34.48	NO	1.001	1.000	50.877	102	NO
5	5 1,2,3,7,8,9-HxCDD	4.10e5	8.56e5	1.23	NO	0.954	34.76	34.76	NO	1.000	1.000	50.250	100	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.13e5	7.02e5	1.03	NO	0.918	38.21	38.22	NO	1.000	1.001	48.678	97.4	NO
7	7 OCDD	5.26e5	1.17e6	0.86	NO	0.866	41.12	41.13	NO	1.000	1.000	104.12	104	NO
8	8 2,3,7,8-TCDF	1.42e5	1.77e6	0.74	NO	0.848	25.69	25.71	NO	1.000	1.001	9.4972	95.0	NO
9	9 1,2,3,7,8-PeCDF	7.10e5	1.45e6	1.54	NO	0.960	29.80	29.81	NO	1.000	1.001	50.884	102	NO
10	10 2,3,4,7,8-PeCDF	6.94e5	1.30e6	1.55	NO	1.07	30.87	30.87	NO	1.001	1.000	50.066	100	NO
11	11 1,2,3,4,7,8-HxCDF	4.67e5	9.73e5	1.21	NO	0.986	33.46	33.46	NO	1.000	1.000	48.657	97.3	NO
12	12 1,2,3,6,7,8-HxCDF	4.97e5	9.80e5	1.21	NO	1.04	33.59	33.59	NO	1.001	1.001	48.803	97.6	NO
13	13 2,3,4,6,7,8-HxCDF	4.56e5	9.21e5	1.21	NO	1.02	34.26	34.25	NO	1.001	1.000	48.500	97.0	NO
14	14 1,2,3,7,8,9-HxCDF	4.12e5	8.47e5	1.21	NO	0.991	35.25	35.26	NO	1.000	1.001	49.081	98.2	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.45e5	6.68e5	1.00	NO	1.05	36.83	36.83	NO	1.000	1.001	49.148	98.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.29e5	5.70e5	1.00	NO	1.18	38.84	38.84	NO	1.000	1.000	49.089	98.2	NO
17	17 OCDF	5.55e5	1.24e6	0.87	NO	0.896	41.42	41.42	NO	1.000	1.000	99.726	99.7	NO
18	18 13C-2,3,7,8-TCDD	1.28e6	1.22e6	0.78	NO	1.06	26.38	26.38	NO	1.030	1.030	99.826	99.8	NO
19	19 13C-1,2,3,7,8-PeCDD	9.81e5	1.22e6	0.65	NO	0.785	31.23	31.05	NO	1.219	1.212	102.72	103	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.85e5	1.09e6	1.27	NO	0.621	34.35	34.35	NO	1.014	1.014	116.40	116	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.96e5	1.09e6	1.26	NO	0.734	34.47	34.47	NO	1.017	1.017	112.27	112	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.56e5	1.09e6	1.25	NO	0.723	34.75	34.74	NO	1.026	1.025	108.97	109	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.02e5	1.09e6	1.06	NO	0.568	38.26	38.20	NO	1.129	1.127	113.67	114	NO
24	24 13C-OCDD	1.17e6	1.09e6	0.90	NO	0.496	41.19	41.12	NO	1.216	1.213	216.36	108	NO
25	25 13C-2,3,7,8-TCDF	1.77e6	1.85e6	0.78	NO	0.919	25.68	25.68	NO	1.003	1.003	103.67	104	NO
26	26 13C-1,2,3,7,8-PeCDF	1.45e6	1.85e6	1.56	NO	0.715	29.94	29.80	NO	1.169	1.163	109.76	110	NO
27	27 13C-2,3,4,7,8-PeCDF	1.30e6	1.85e6	1.56	NO	0.689	31.03	30.85	NO	1.212	1.205	101.75	102	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.73e5	1.09e6	0.51	NO	0.873	33.45	33.45	NO	0.987	0.987	102.46	102	NO
29	29 13C-1,2,3,6,7,8-HxCDF	9.80e5	1.09e6	0.51	NO	0.933	33.58	33.57	NO	0.991	0.991	96.618	96.6	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.21e5	1.09e6	0.51	NO	0.843	34.25	34.24	NO	1.011	1.011	100.51	101	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.47e5	1.09e6	0.51	NO	0.780	35.25	35.24	NO	1.040	1.040	99.864	99.9	NO

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:19:36 PM Pacific Standard Time

Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

	# 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	6.68e5	1.09e6	0.42	NO	0.726	36.83	36.81	NO	1.087	1.086	84.613	84.6	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.70e5	1.09e6	0.42	NO	0.491	38.83	38.83	NO	1.146	1.146	106.78	107	NO
34	34 13C-OCDF	1.24e6	1.09e6	0.87	NO	0.565	41.41	41.41	NO	1.222	1.222	202.18	101	NO
35	35 37Cl-2,3,7,8-TCDD	1.64e5	1.22e6			1.22	26.38	26.39	NO	1.030	1.031	11.066	111	NO
36	36 13C-1,2,3,4-TCDD	1.22e6	1.22e6	0.79	NO	1.00	25.64	25.61	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.85e6	1.85e6	0.78	NO	1.00	24.13	24.12	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.09e6	1.09e6	0.51	NO	1.00	33.92	33.89	NO	1.000	1.000	100.00	100	YES OK

Dataset: Untitled

Last Altered: Friday, December 18, 2020 8:09:54 AM Pacific Standard Time
Printed: Friday, December 18, 2020 8:10:19 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-11-20.mdb 11 Dec 2020 08:35:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Compound name: 2,3,7,8-TCDD

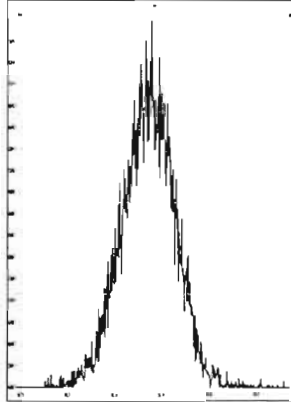
	Name	ID	Acq.Date	Acq.Time
1	201217R4_1	ST201217R4_1 1613 CS3 20L0301	17-Dec-20	14:26:46
2	201217R4_2	B0L0082-BS1 OPR 10	17-Dec-20	15:13:49
3	201217R4_3	SOLVENT BLANK	17-Dec-20	16:01:58
4	201217R4_4	B0L0082-BLK1 Method Blank 10	17-Dec-20	16:46:12
5	201217R4_5	HRMS-201216-02 HEXANE EA350-US	17-Dec-20	17:30:27
6	201217R4_6	HRMS-201216-03 DCM EA237-US	17-Dec-20	18:14:44
7	201217R4_7	2002582-08 NCPDI-077SG-201119 7.67	17-Dec-20	18:58:58
8	201217R4_8	2002582-07 NCPDI-076SG-201119 10.8	17-Dec-20	19:43:13
9	201217R4_9	2002582-06 NCPDI-075SG-201119 14.28	17-Dec-20	20:27:29
10	201217R4_10	2002582-05 NCPDI-074SG-201119 13.37	17-Dec-20	21:11:44
11	201217R4_11	2002493-05@10X USMPDI-014SC-A-10-11-2...	17-Dec-20	21:55:59
12	201217R4_12	2002493-06@10X USMPDI-014SC-A-11-12-2...	17-Dec-20	22:40:14
13	201217R4_13			
14	201217R4_14			
15	201217R4_15			
16	201217R4_16			
17	201217R4_17			
18	201217R5_1			
19	201217R5_2	ST201217R5_1 1613 CS3 20L0301	18-Dec-20	07:08:19

Ⓐ Instrument paused, end resolution check manually processed, injected end standard. HN 12/18/2020

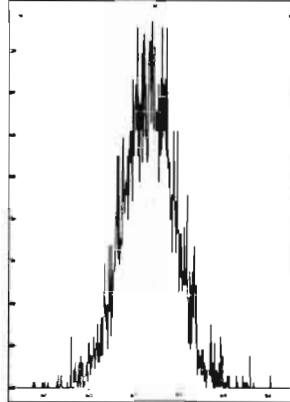
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, December 17, 2020 14:22:35 Pacific Standard Time

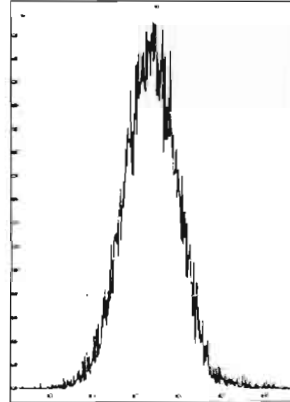
M 292.9824 R 11012



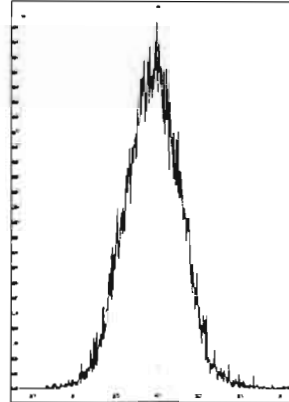
M 304.9824 R 12073



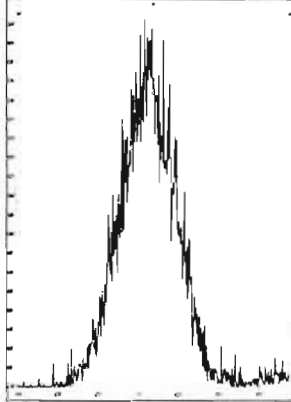
M 318.9792 R 11573



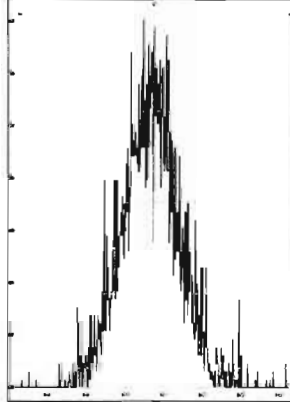
M 330.9792 R 11158



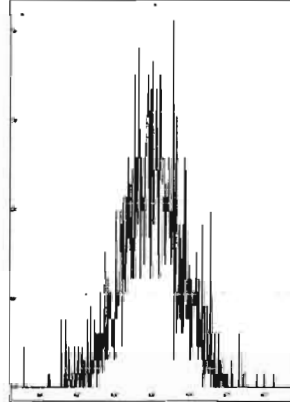
M 342.9792 R 11013



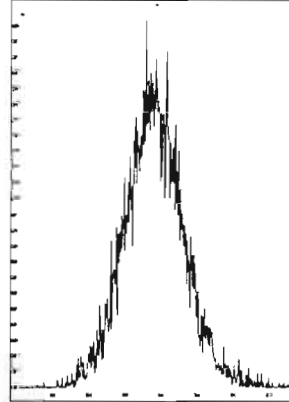
M 354.9792 R 11109



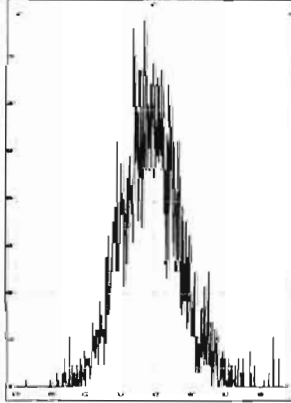
M 366.9792 R 13737



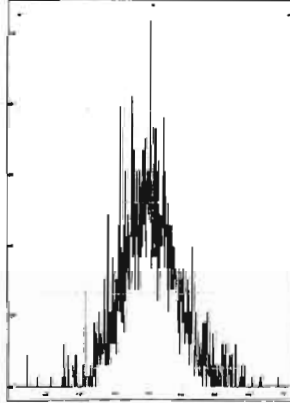
M 380.9760 R 10203



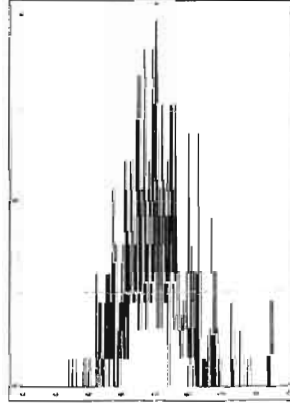
M 392.9760 R 11313



M 404.9760 R 12885



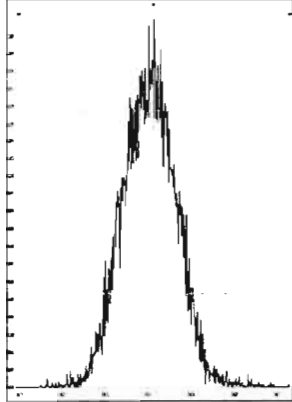
M 416.9760 R 15925



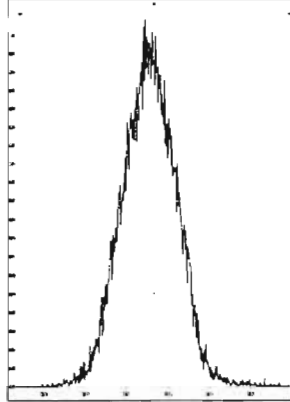
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, December 17, 2020 14:22:57 Pacific Standard Time

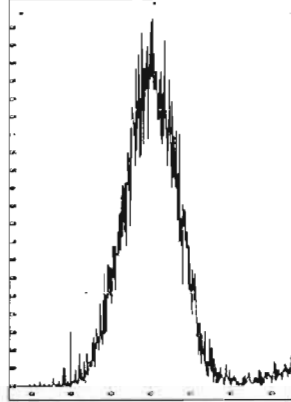
M 318.9792 R 11736



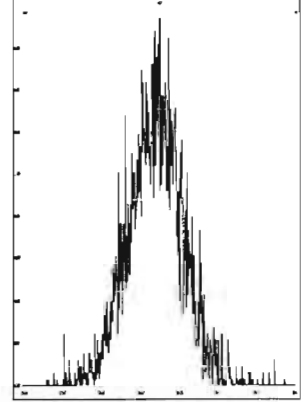
M 330.9792 R 11464



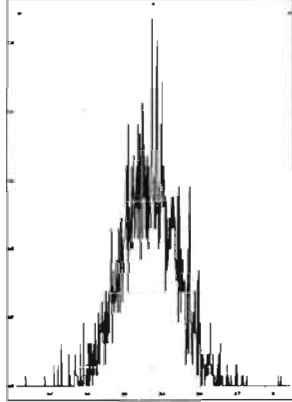
M 342.9792 R 11682



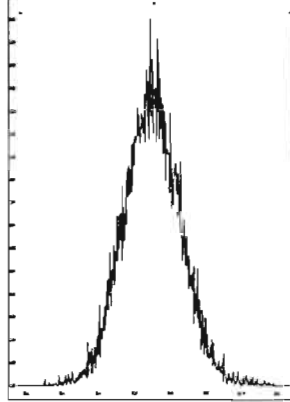
M 354.9792 R 12565



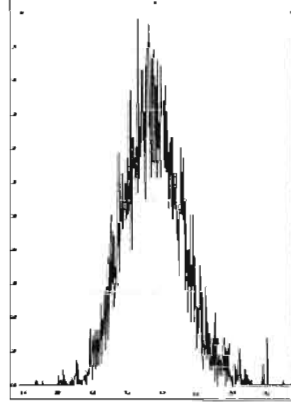
M 366.9792 R 12690



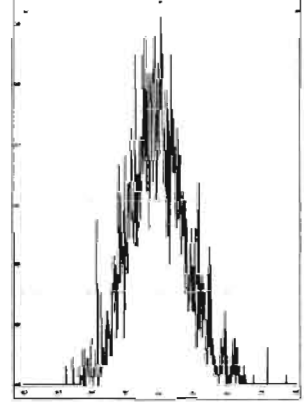
M 380.9760 R 10732



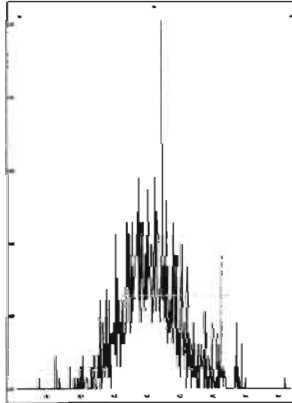
M 392.9760 R 11161



M 404.9760 R 11626



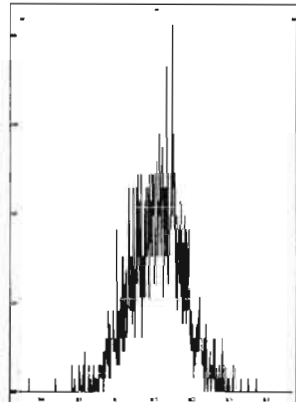
M 416.9760 R 15433



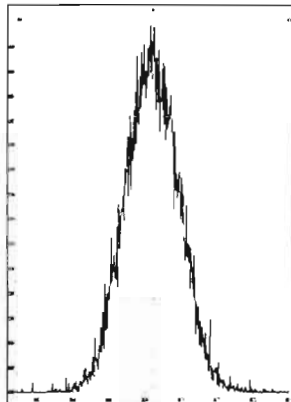
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Printed: Thursday, December 17, 2020 14:23:27 Pacific Standard Time

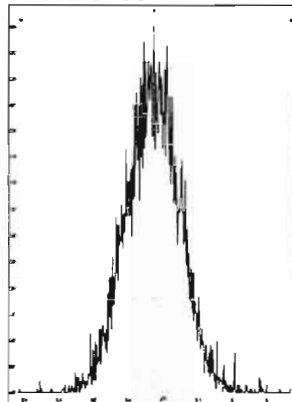
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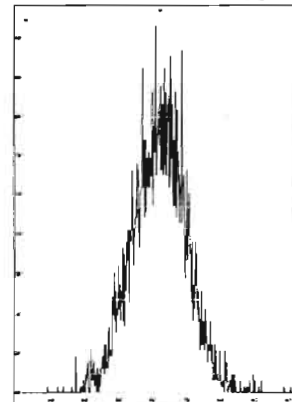
M 380.9760 R 11682



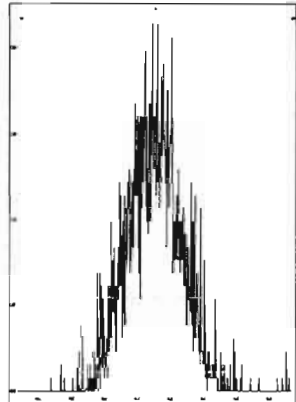
M 392.9760 R 11571



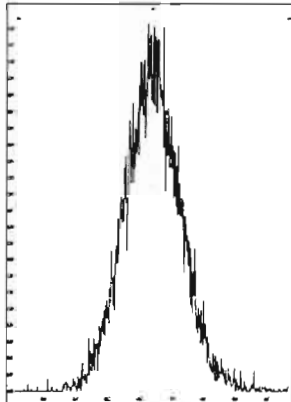
M 404.9760 R 11363



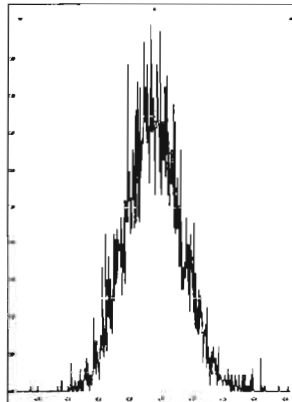
M 416.9760 R 12628



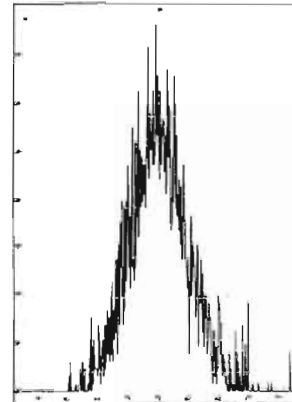
M 430.9728 R 10776



M 442.9728 R 11681



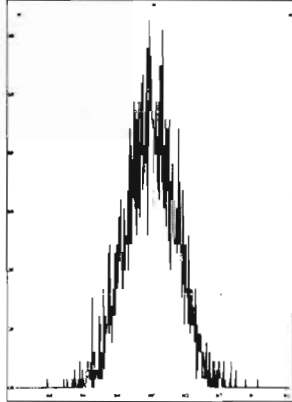
M 454.9728 R 12255



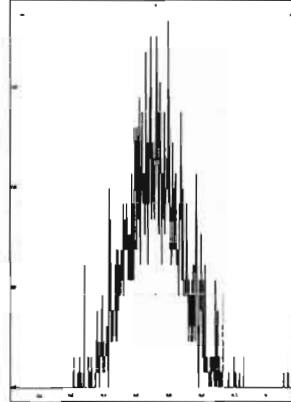
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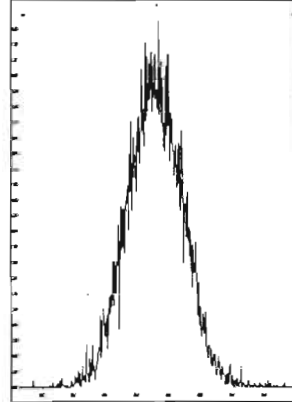
M 404.9760 R 14535



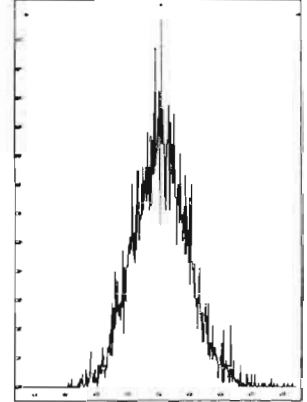
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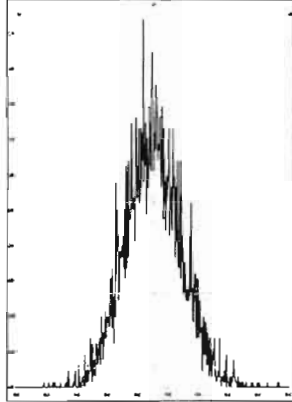
M 430.9728 R 11361



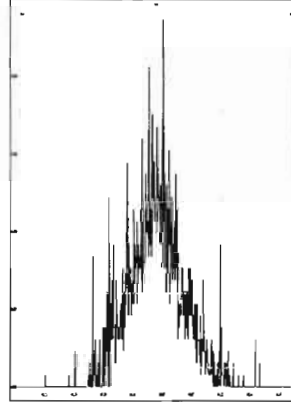
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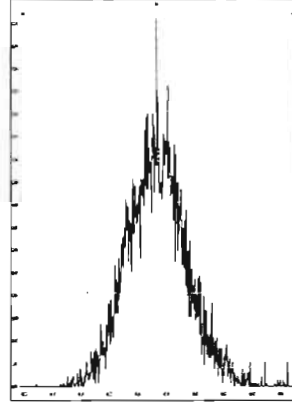
M 454.9728 R 12888



M 466.9728 R 13020



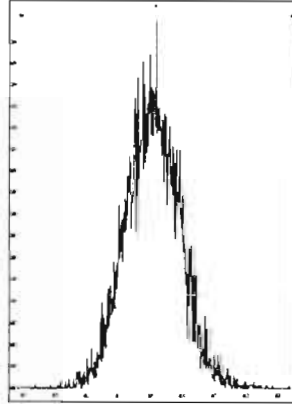
M 480.9696 R 11109



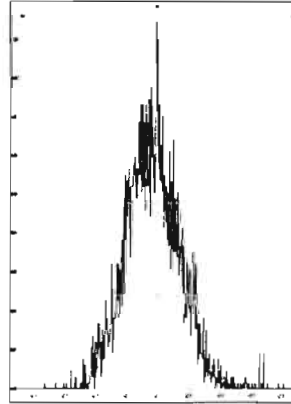
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Printed: Thursday, December 17, 2020 14:24:09 Pacific Standard Time

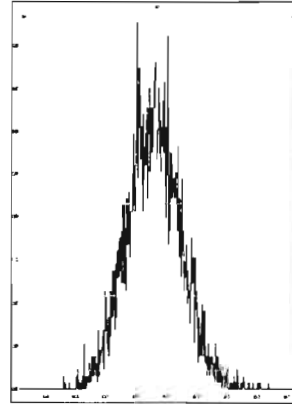
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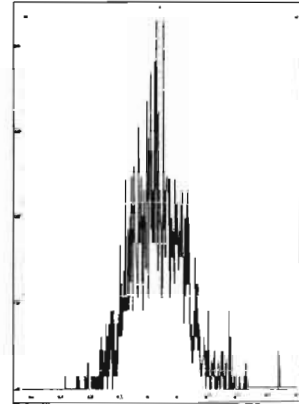
M 442.9728 R 13371



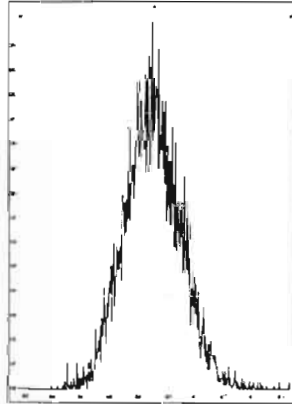
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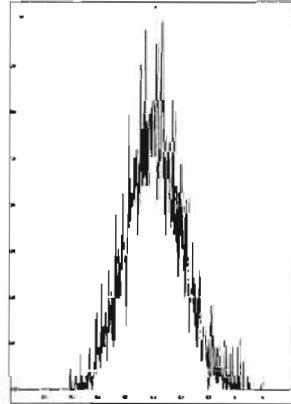
M 466.9728 R 14791



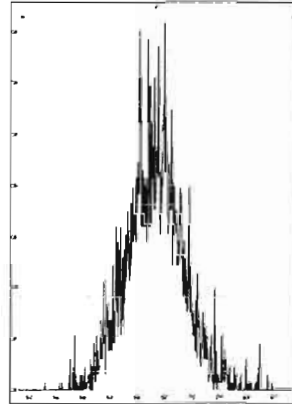
M 480.9696 R 11014



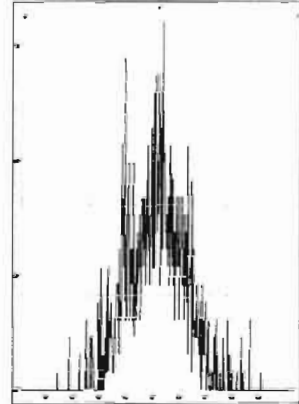
M 492.9696 R 11961



M 504.9696 R 12196



M 516.9697 R 14212



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_CPSM.qld

Last Altered: Thursday, December 17, 2020 3:14:47 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:15:35 PM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1,3,6,8-TCDD (First)	22.59
2	1,2,8,9-TCDD (Last)	27.28
3	1,2,4,7,9-PeCDD (First)	28.82
4	1,2,3,8,9-PeCDD (Last)	31.42
5	1,2,4,6,7,9-HxCDD (First)	32.72
6	1,2,3,7,8,9-HxCDD (Last)	34.76
7	1,2,3,4,6,7,9-HpCDD (First)	37.21
8	1,2,3,4,6,7,8-HpCDD (Last)	38.22
9	1,3,6,8-TCDF (First)	20.33
10	1,2,8,9-TCDF (Last)	27.59
11	1,3,4,6,8-PeCDF (First)	27.16
12	1,2,3,8,9-PeCDF (Last)	31.77
13	1,2,3,4,6,8-HxCDF (First)	32.19
14	1,2,3,7,8,9-HxCDF (Last)	35.26
15	1,2,3,4,6,7,8-HpCDF (First)	36.83
16	1,2,3,4,7,8,9-HpCDF (Last)	38.84

Dataset: U:\VG12.PRO\Results\201217R4\201217R4_CPSM.qld

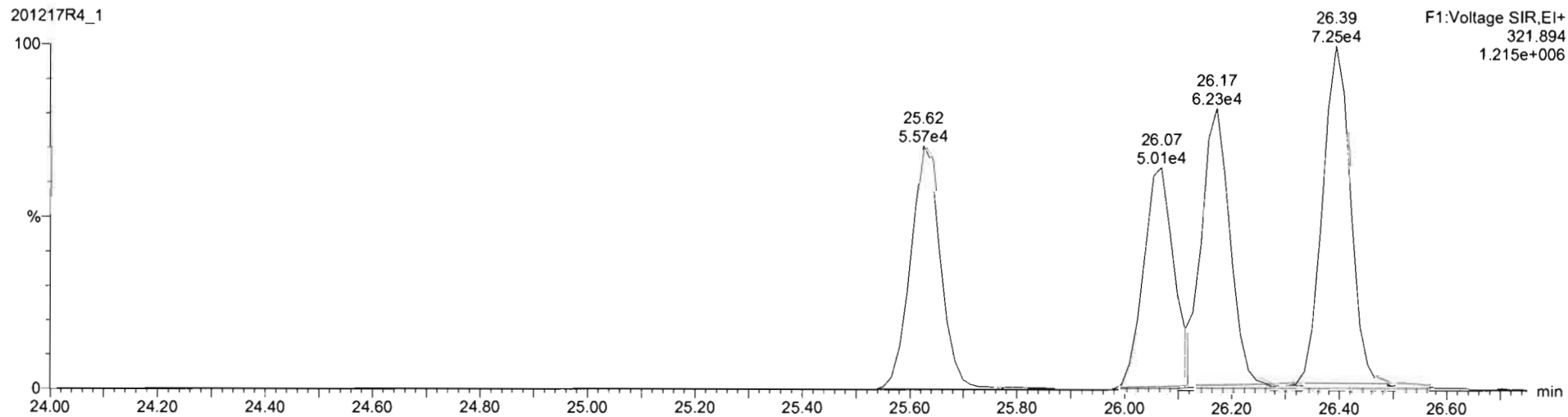
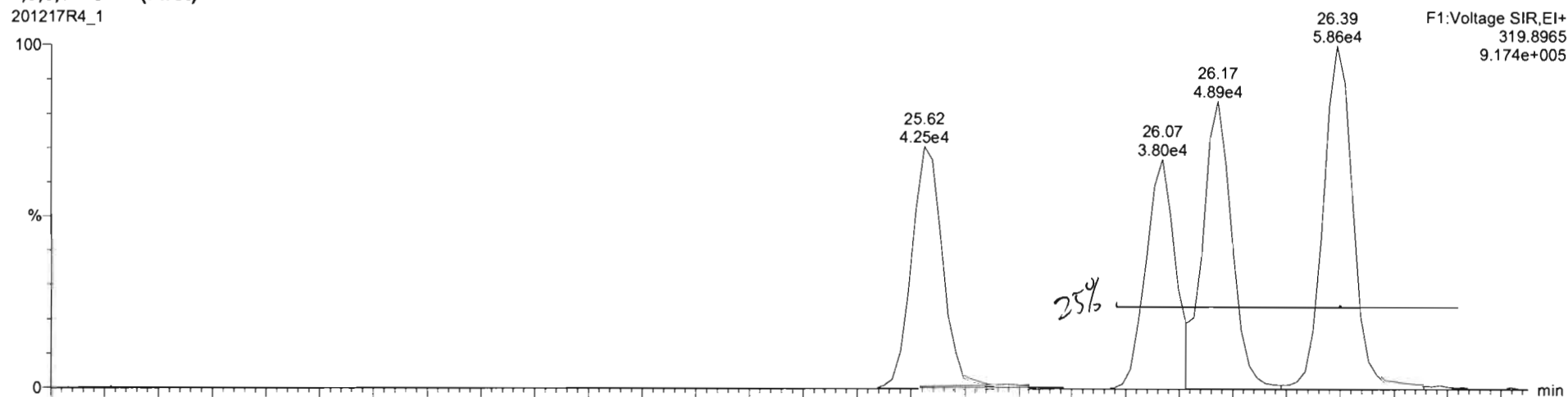
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HN 12/17/2020
GFB 12/18/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 11 Dec 2020 14:14:32
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)
201217R4_1



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_CPSM.qld

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Printed: Thursday, December 17, 2020 3:15:35 PM Pacific Standard Time

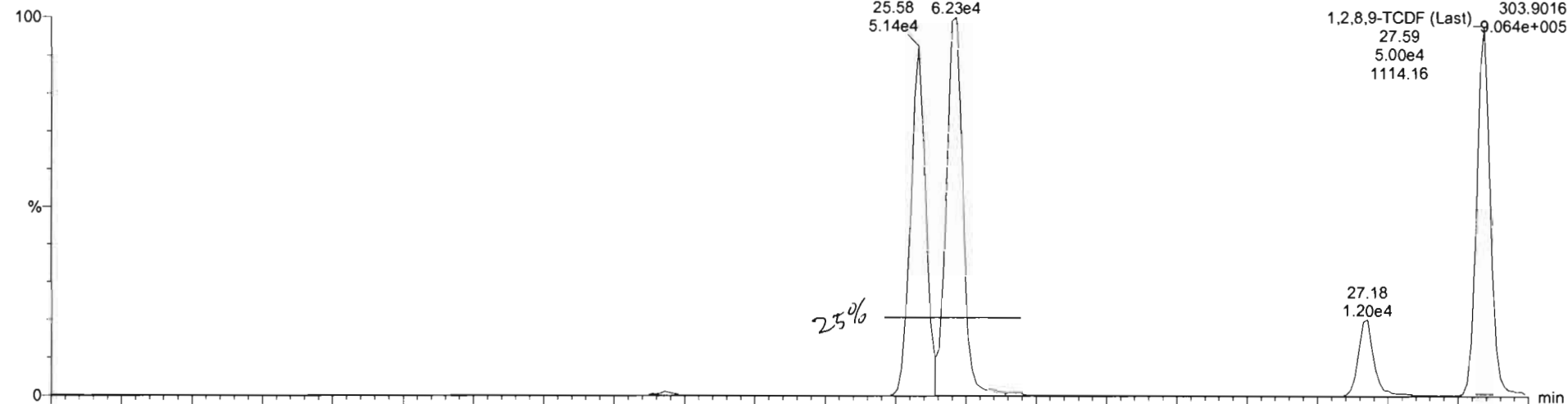
HW 12/17/2020

GRB 12/18/2020

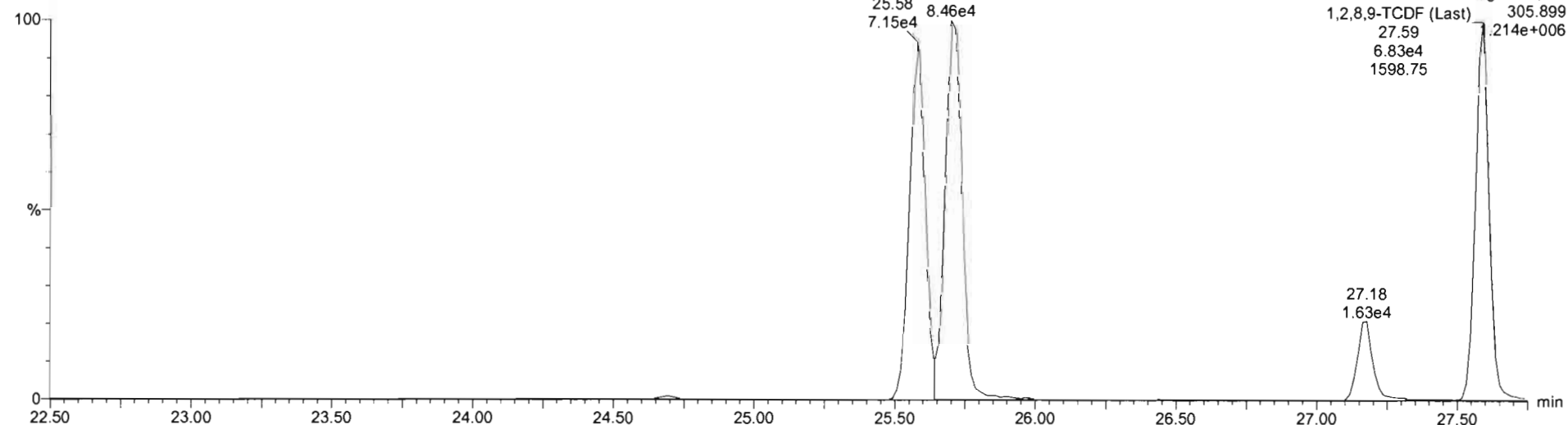
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1,3,6,8-TCDF (First)

201217R4_1



201217R4_1



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

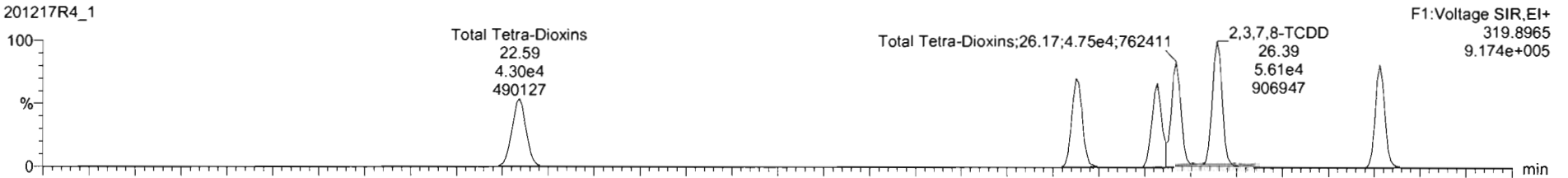
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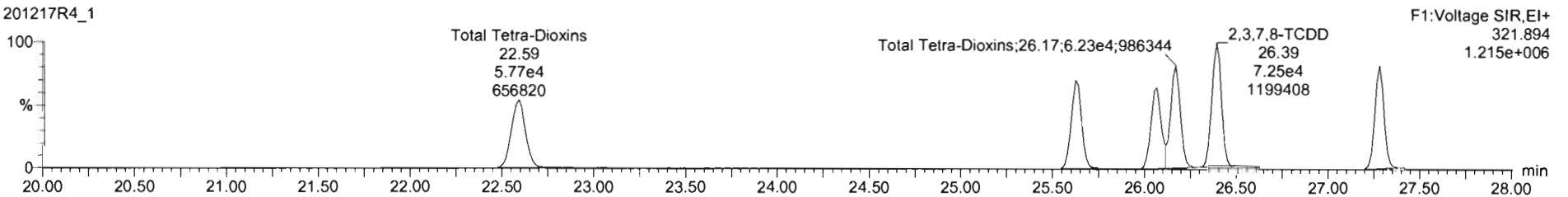
Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD

201217R4_1

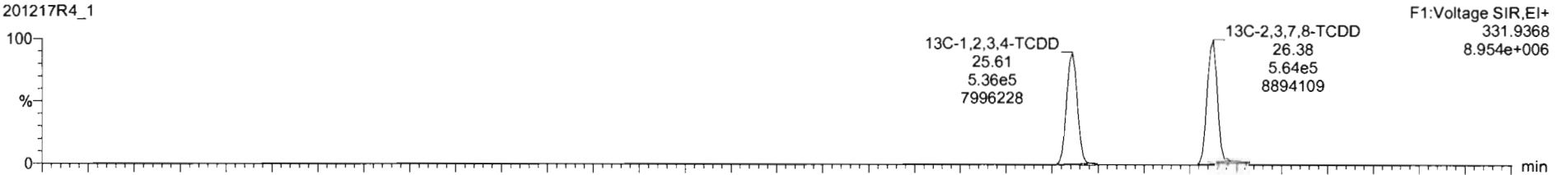


201217R4_1

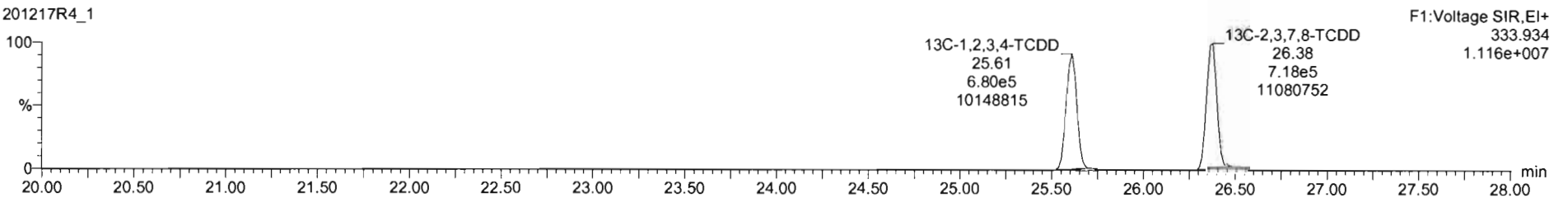


13C-2,3,7,8-TCDD

201217R4_1



201217R4_1



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

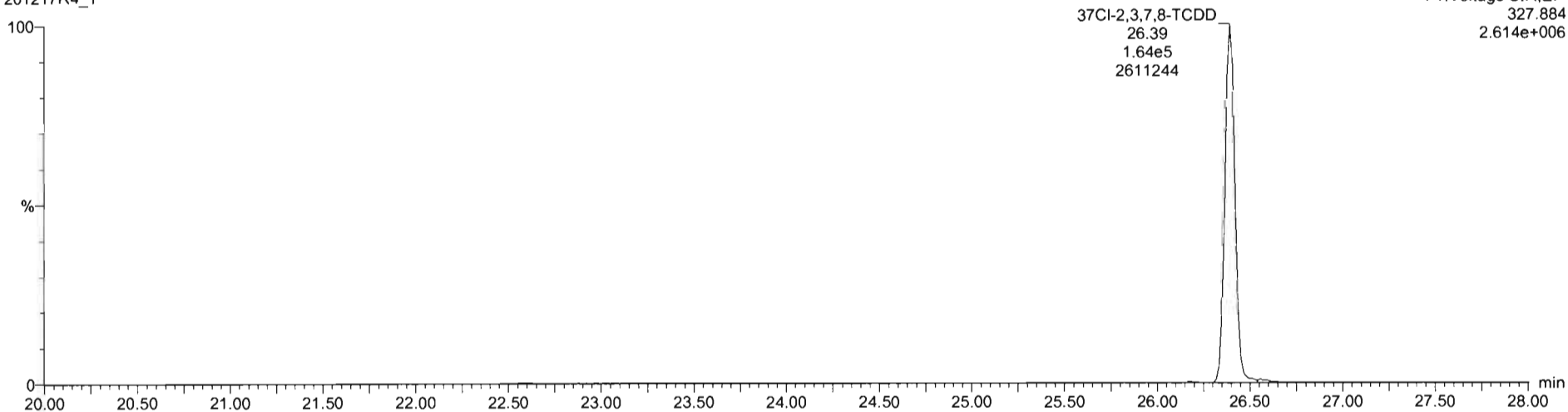
Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time

Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

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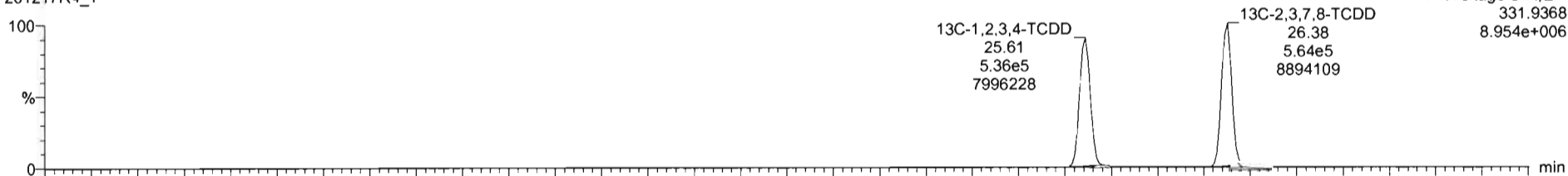
37Cl-2,3,7,8-TCDD

201217R4_1

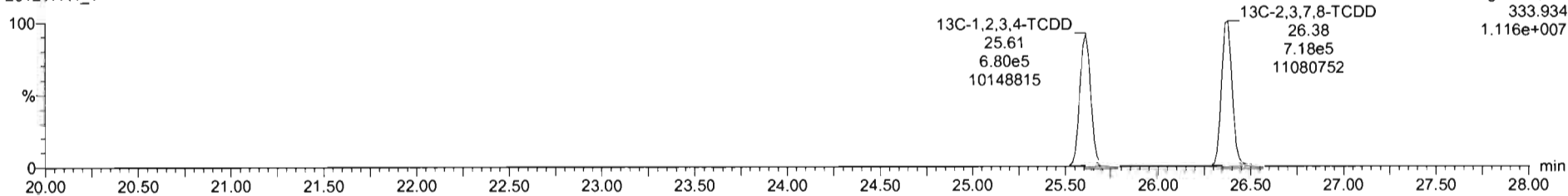


13C-1,2,3,4-TCDD

201217R4_1



201217R4_1



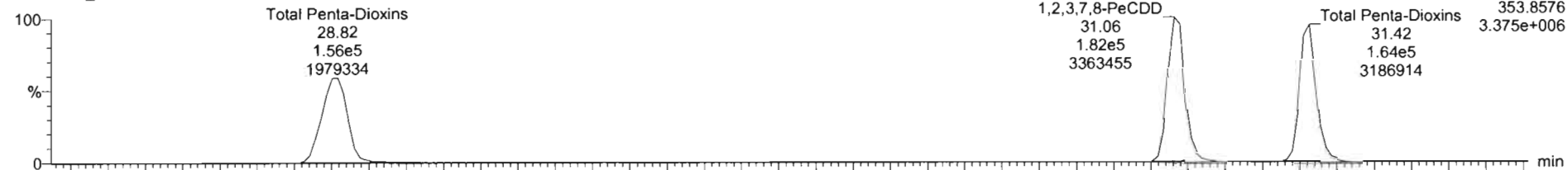
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Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

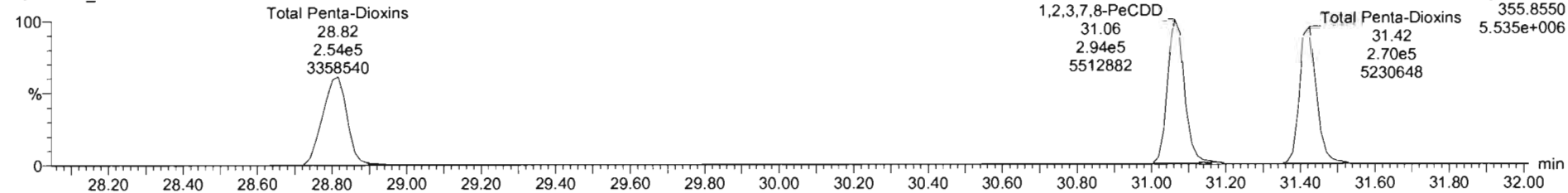
Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,2,3,7,8-PeCDD

201217R4_1

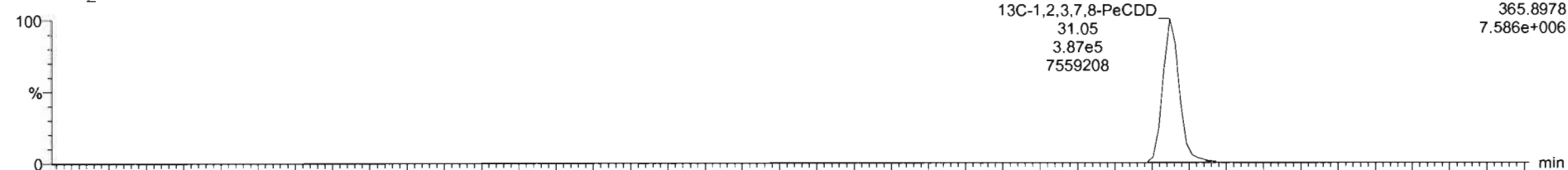


201217R4_1

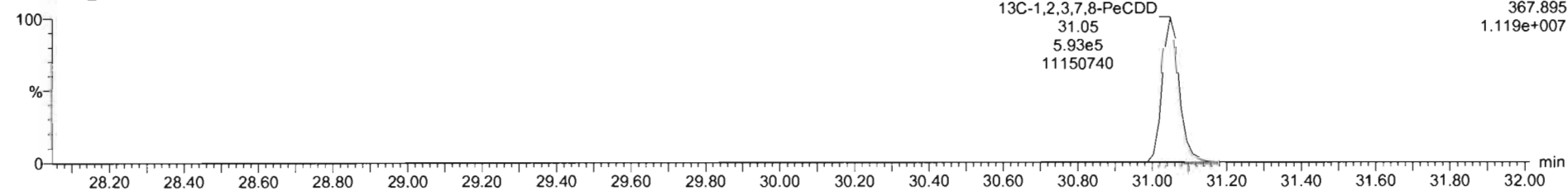


13C-1,2,3,7,8-PeCDD

201217R4_1



201217R4_1

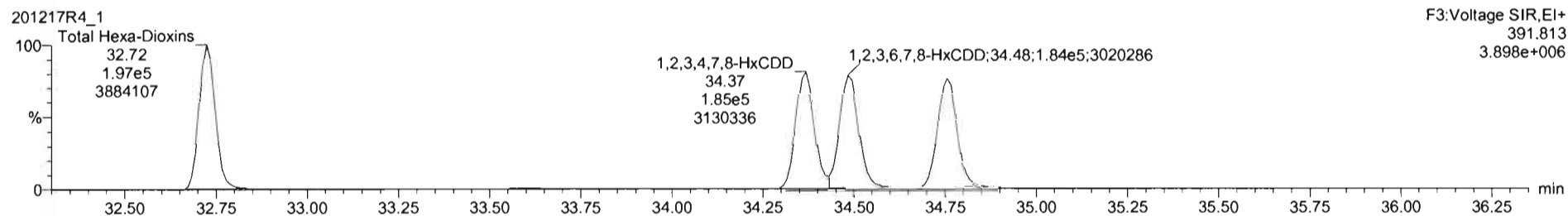
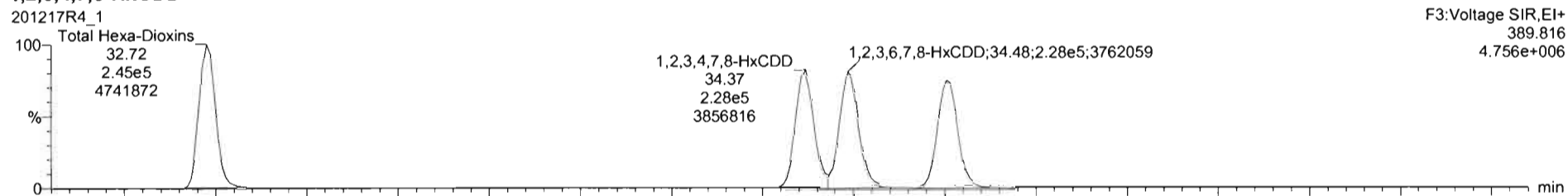


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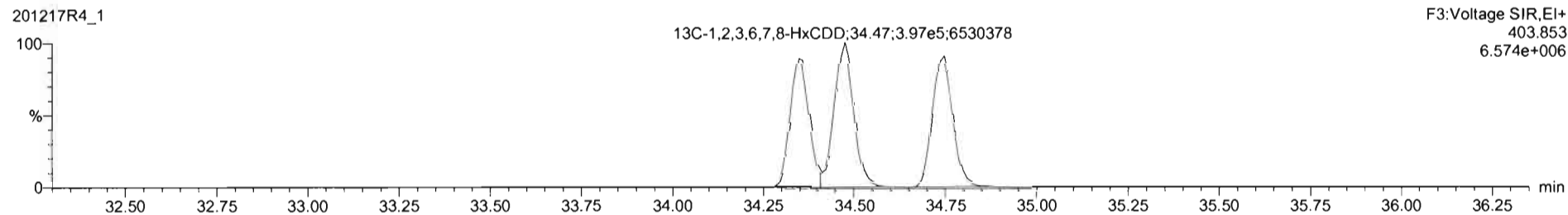
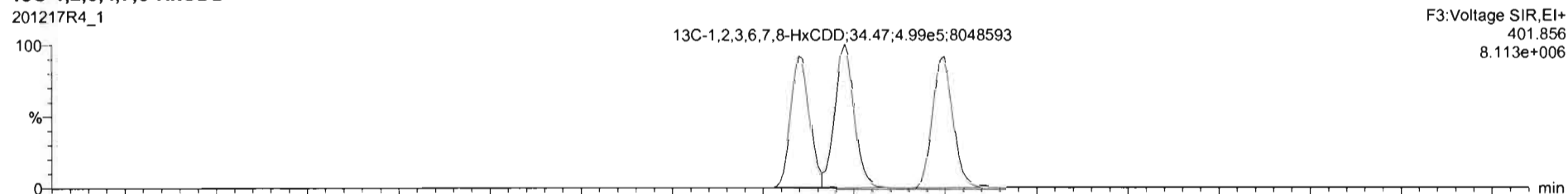
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1,2,3,4,7,8-HxCDD



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



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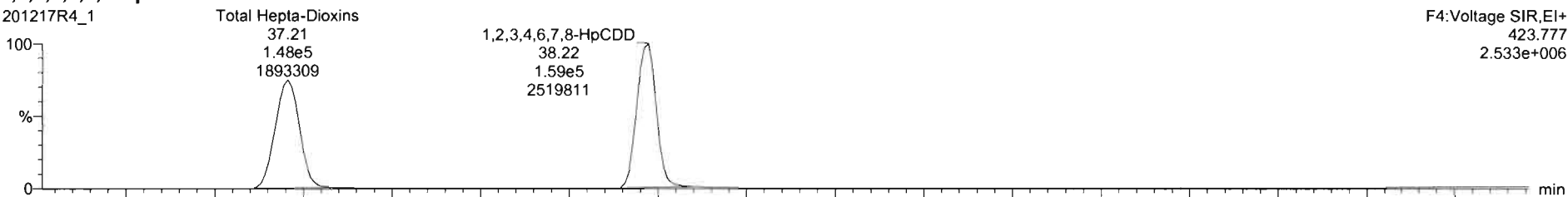
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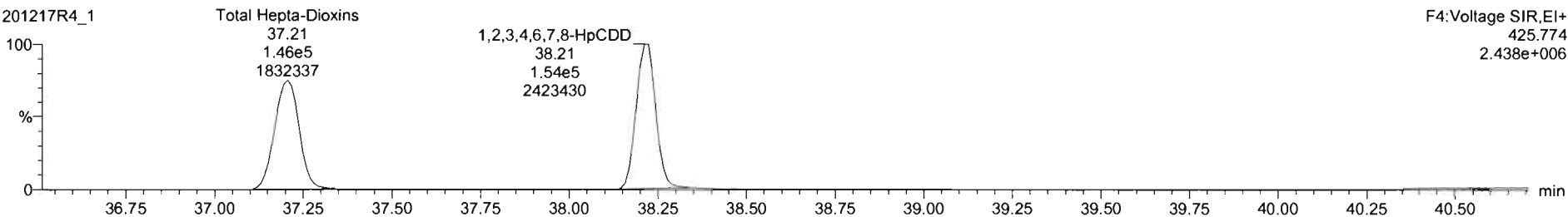
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1,2,3,4,6,7,8-HpCDD

201217R4_1

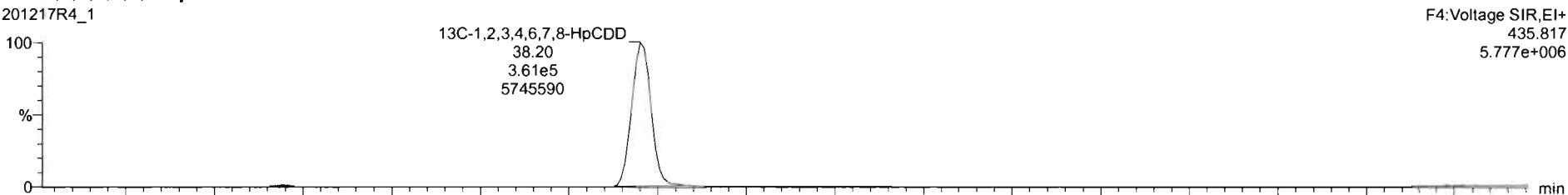


201217R4_1

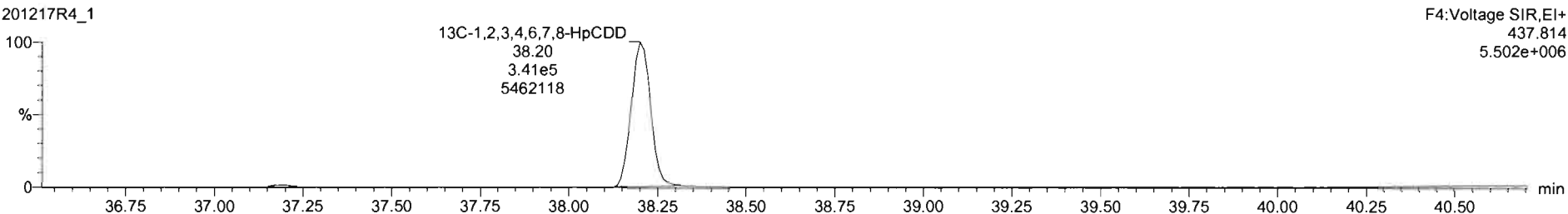


13C-1,2,3,4,6,7,8-HpCDD

201217R4_1



201217R4_1

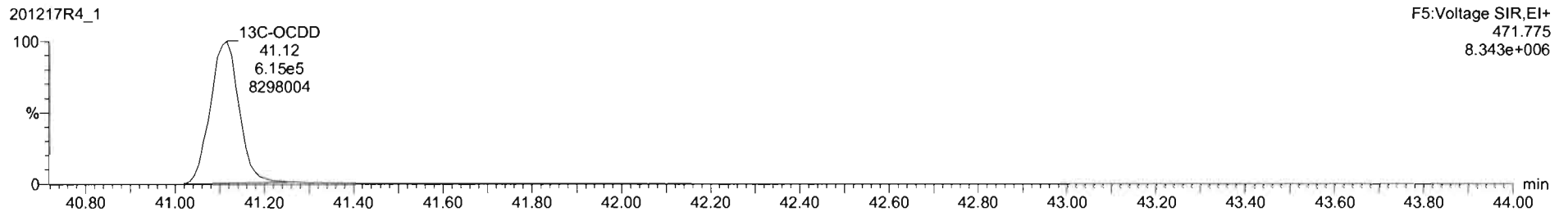
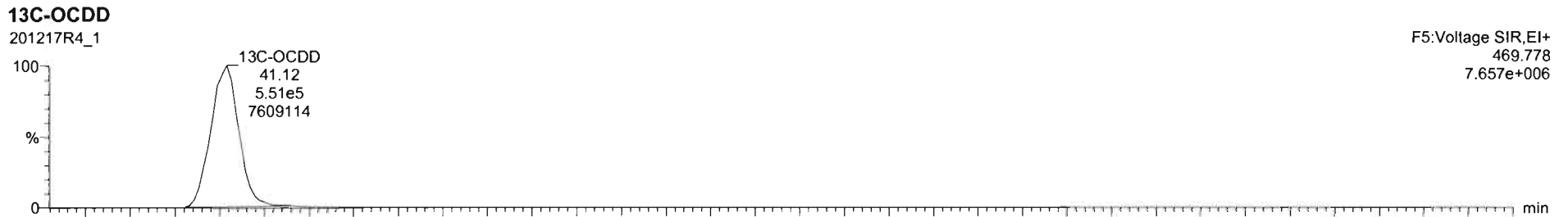
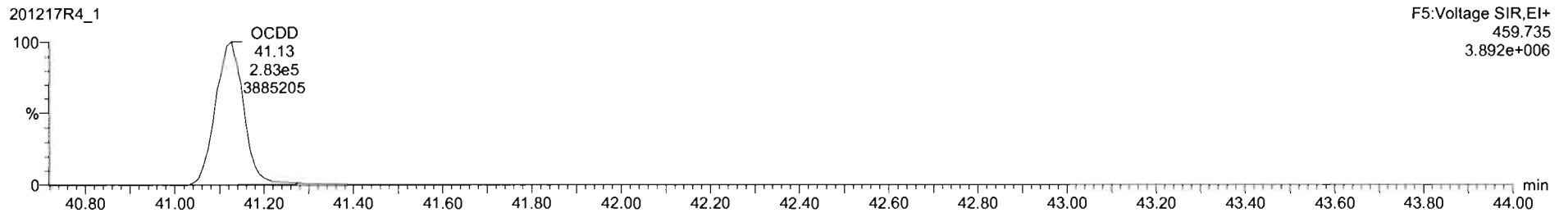
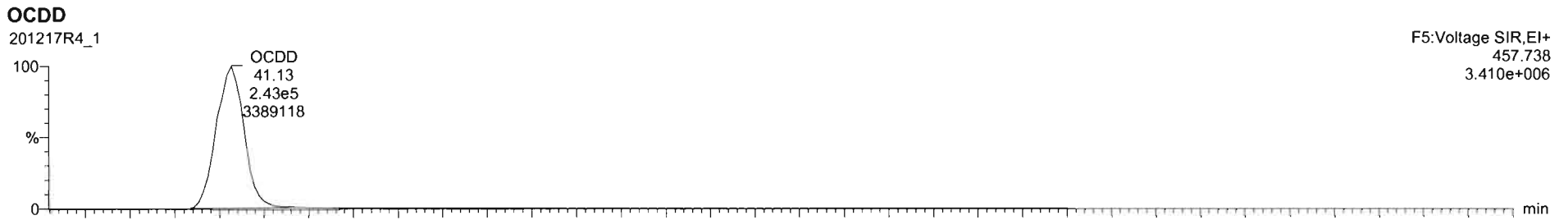


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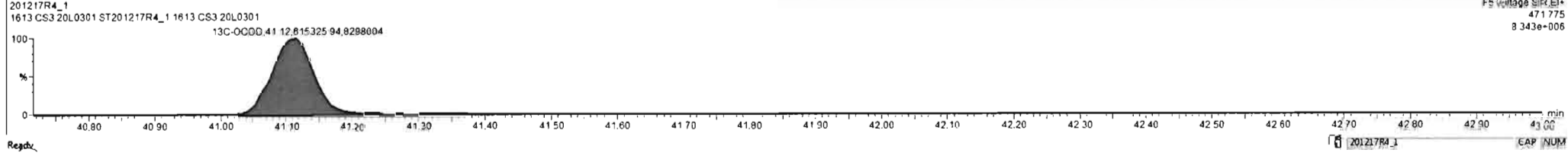
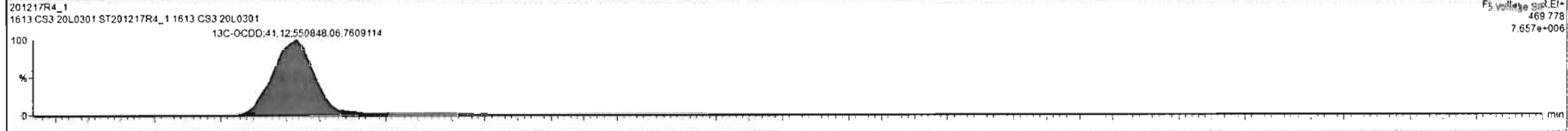
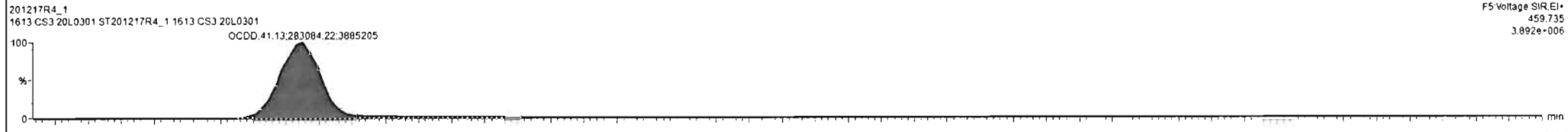
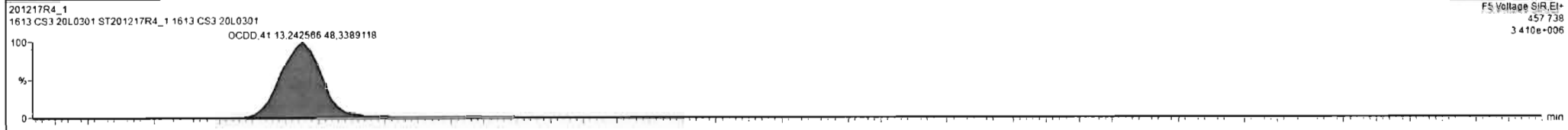
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Name: 201217R4_1, Date: 17-Dec-2020, Time: 14:26:46, ID: ST201217R4_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301



#	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	1.29e5	1.28e6	0.77	0.77	NO	0.9805	26.41	26.39	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	4.75e5	9.81e5	0.63	0.62	NO	0.9320	31.08	31.06	NO	1.001	1.000	52.0	104	NO
3	1,2,3,4,7,8-HxCDD	4.13e5	7.85e5	1.24	1.23	NO	1.0203	34.37	34.37	NO	1.001	1.001	51.6	103	NO
4	1,2,3,6,7,8-HxCDD	4.11e5	8.96e5	1.24	1.24	NO	0.9025	34.49	34.48	NO	1.001	1.000	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	4.10e5	8.56e5	1.24	1.23	NO	0.9542	34.76	34.76	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	3.13e5	7.02e5	1.04	1.03	NO	0.9180	38.21	38.22	NO	1.000	1.001	48.7	97.4	NO
7	OCDD	5.26e5	1.17e6	0.89	0.88	NO	0.8658	41.12	41.13	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	1.42e5	1.77e6	0.77	0.74	NO	0.8480	25.69	25.71	NO	1.000	1.001	9.50	95.0	NO
9	1,2,3,7,8-PeCDF	7.10e5	1.45e6	1.55	1.54	NO	0.9597	29.80	29.81	NO	1.000	1.001	50.9	102	NO
10	2,3,4,7,8-PeCDF	8.94e5	1.30e6	1.55	1.55	NO	1.0671	30.87	30.87	NO	1.001	1.000	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	4.69e5	9.73e5	1.24	1.22	NO	0.9859	33.46	33.46	NO	1.000	1.000	48.9	97.7	NO
12	1,2,3,6,7,8-HxCDF	4.98e5	9.80e5	1.24	1.21	NO	1.0388	33.59	33.59	NO	1.001	1.001	48.9	97.7	NO
13	2,3,4,6,7,8-HxCDF	4.56e5	9.21e5	1.24	1.21	NO	1.0202	34.26	34.25	NO	1.001	1.000	48.5	97.0	NO



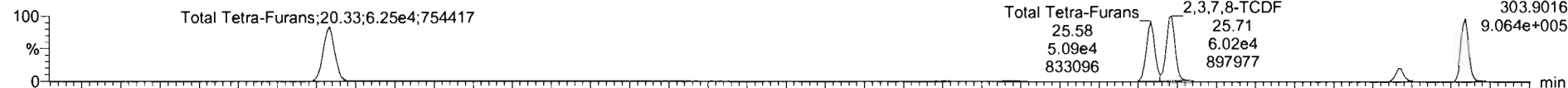
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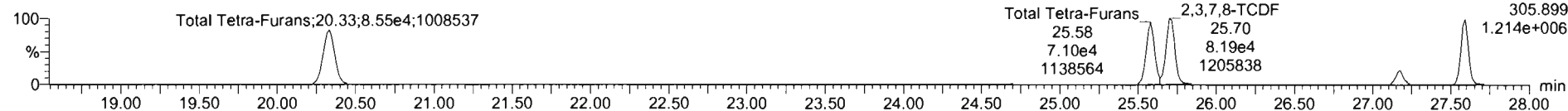
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2,3,7,8-TCDF

201217R4_1

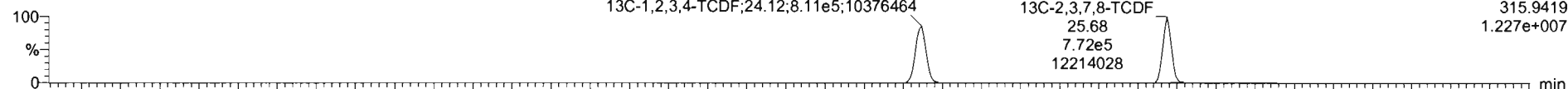


201217R4_1

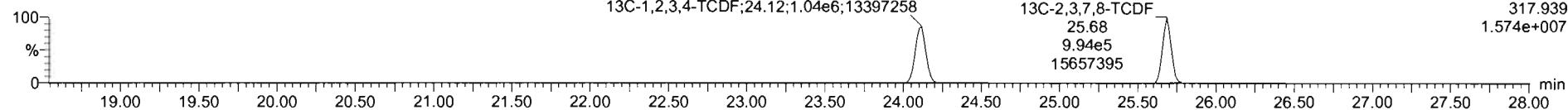


13C-2,3,7,8-TCDF

201217R4_1

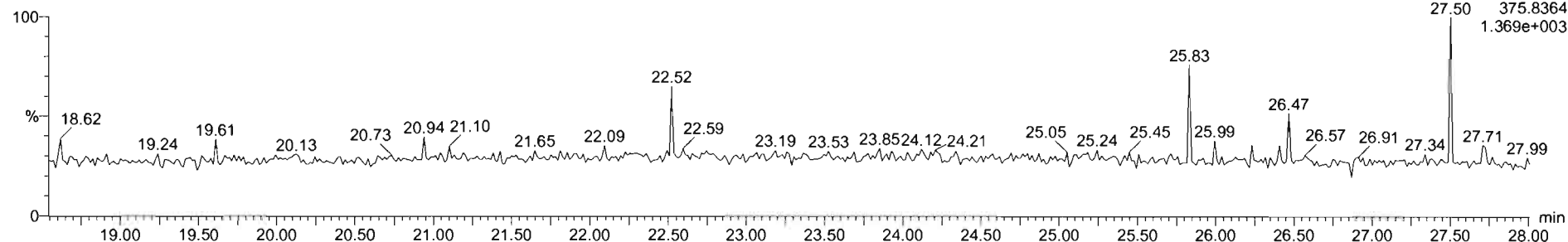


201217R4_1



DPE1

201217R4_1



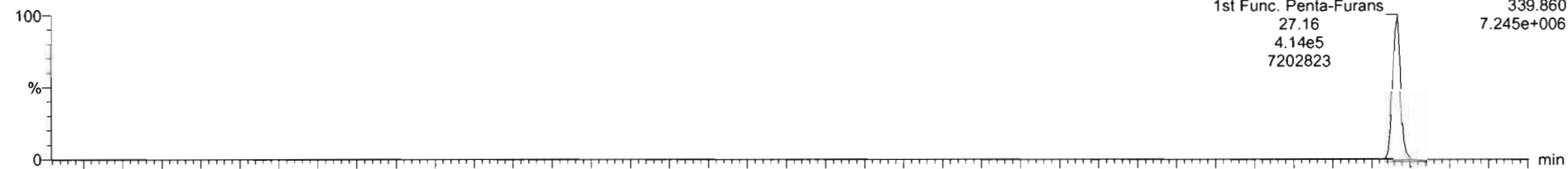
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Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

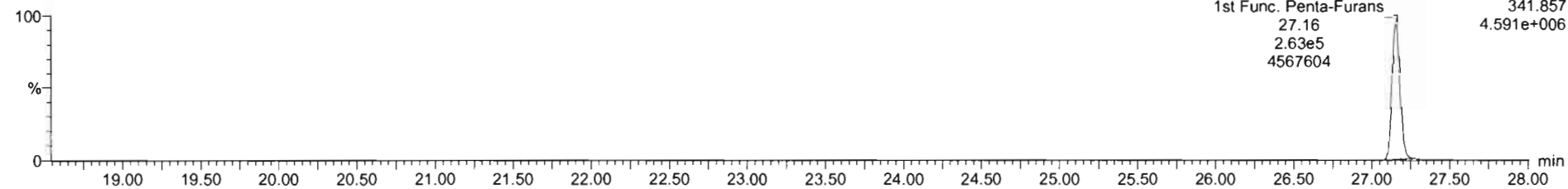
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201217R4_1

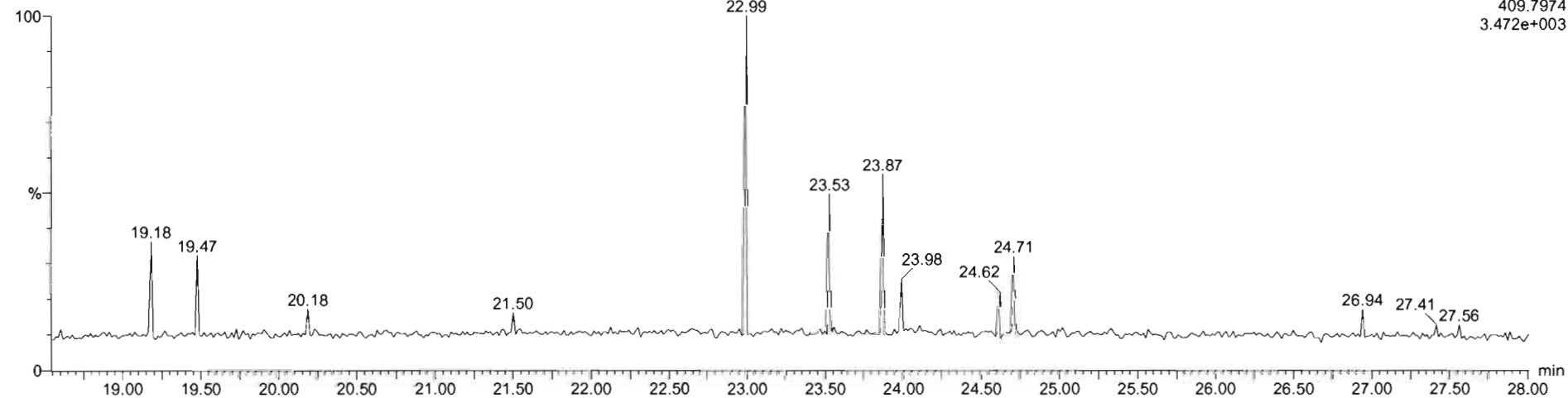


201217R4_1



DPE6

201217R4_1

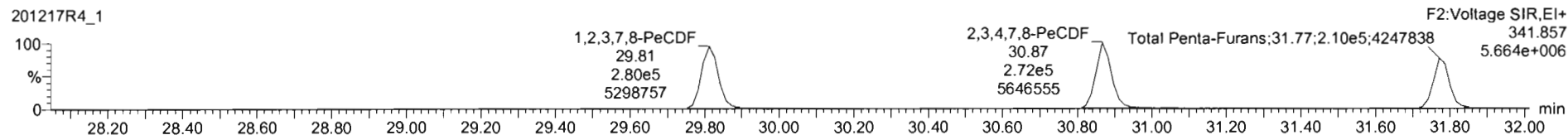
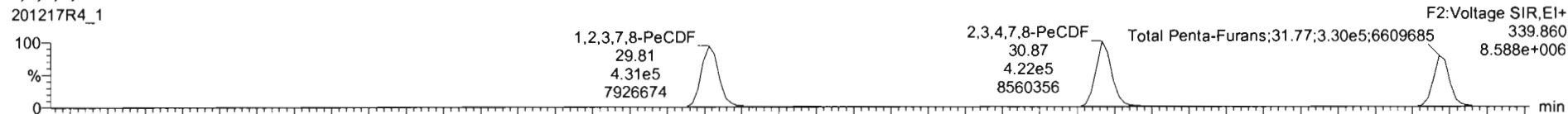


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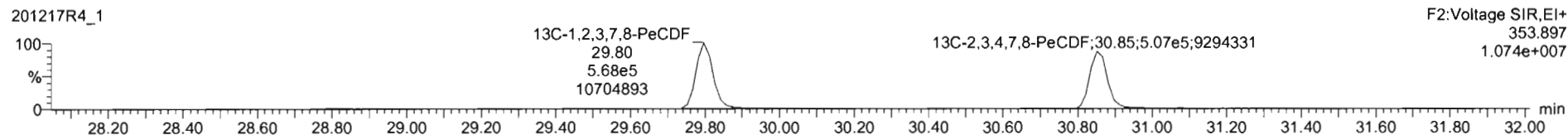
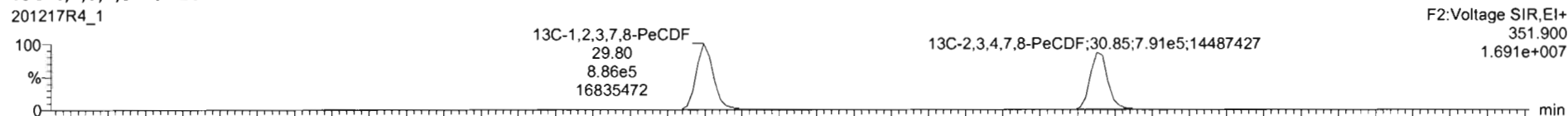
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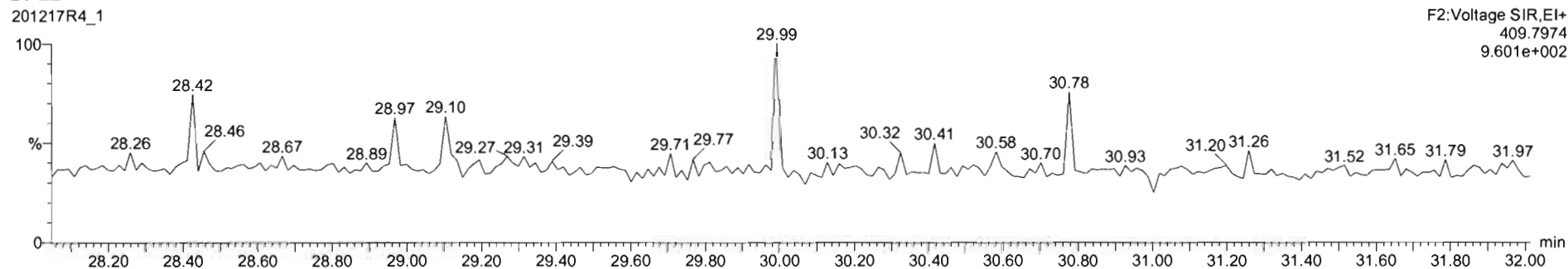
1,2,3,7,8-PeCDF



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



DPE2



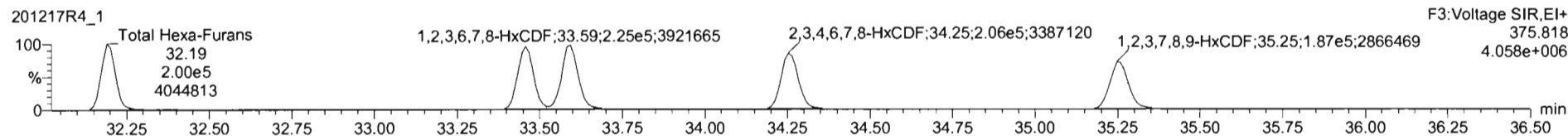
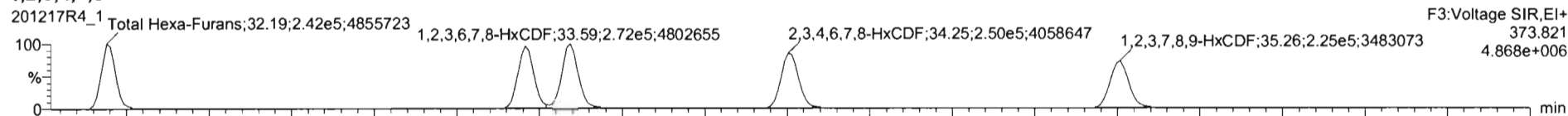
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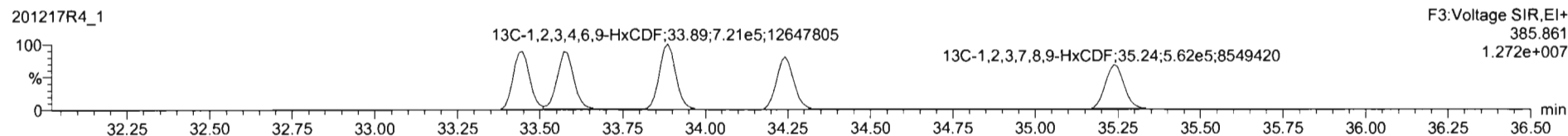
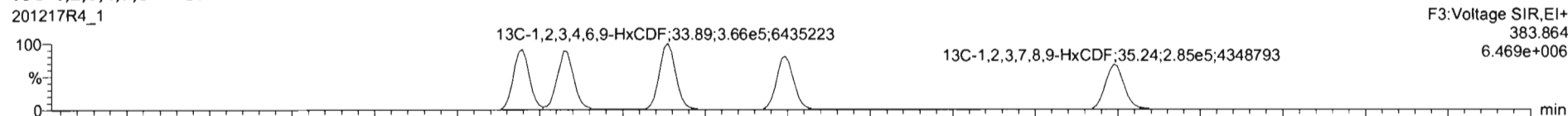
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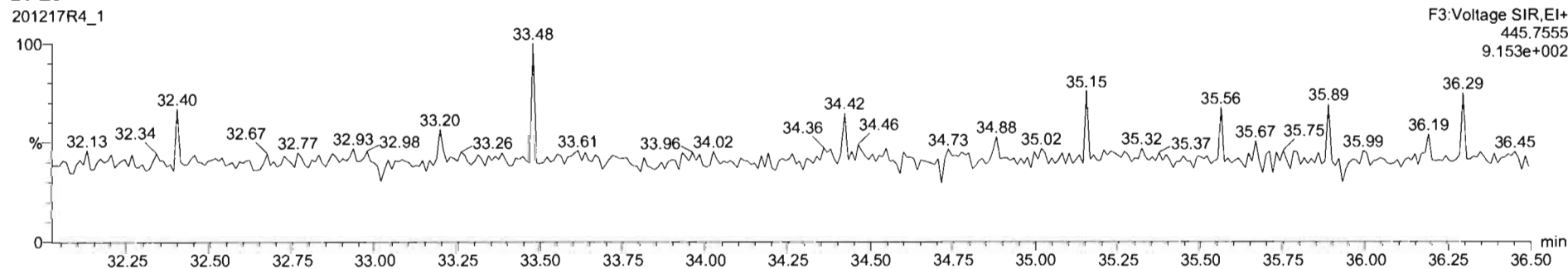
1,2,3,4,7,8-HxCDF



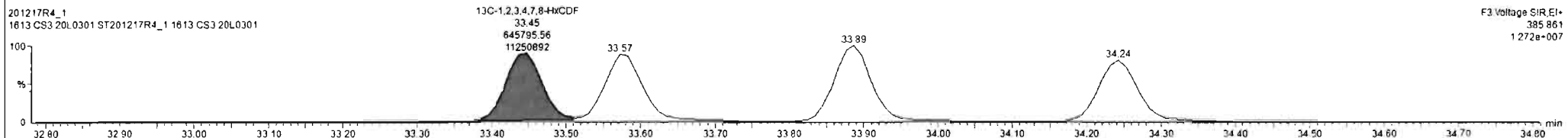
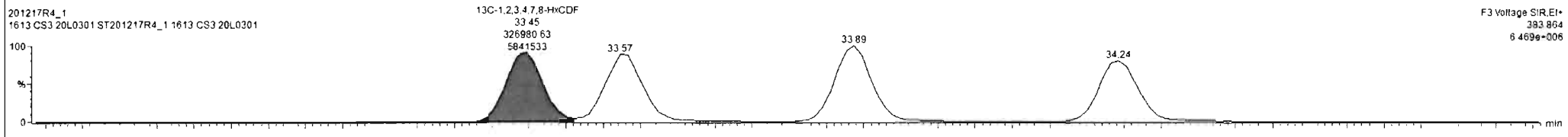
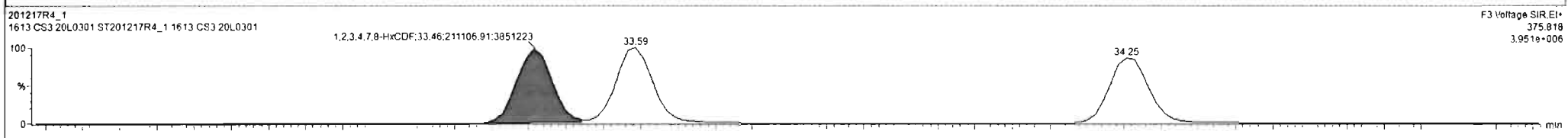
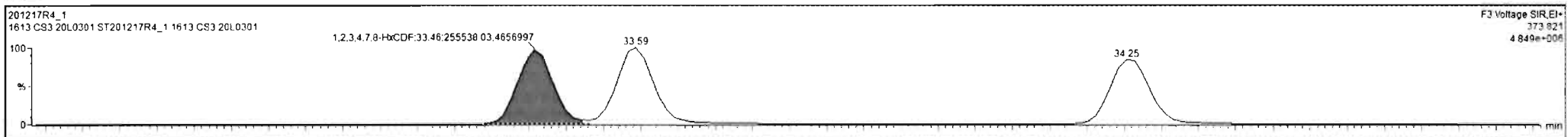
13C-1,2,3,4,7,8-HxCDF



DPE3



#	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	1.29e5	1.28e5	0.77	0.77	NO	0.9805	26.41	26.39	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	4.75e5	9.81e5	0.63	0.62	NO	0.9320	31.08	31.06	NO	1.001	1.000	52.0	104	NO
3	1,2,3,4,7,8-HxCDD	4.13e5	7.85e5	1.24	1.23	NO	1.0203	34.37	34.37	NO	1.001	1.001	51.6	103	NO
4	1,2,3,6,7,8-HxCDD	4.11e5	8.96e5	1.24	1.24	NO	0.9025	34.49	34.48	NO	1.001	1.000	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	4.10e5	8.56e5	1.24	1.23	NO	0.9542	34.76	34.76	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	3.13e5	7.02e5	1.04	1.03	NO	0.9180	38.21	38.22	NO	1.000	1.001	48.7	97.4	NO
7	OCDD	5.26e5	1.17e5	0.89	0.86	NO	0.8658	41.12	41.13	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	1.42e5	1.77e5	0.77	0.74	NO	0.8480	25.69	25.71	NO	1.000	1.001	9.50	95.0	NO
9	1,2,3,7,8-PeCDF	7.10e5	1.45e6	1.55	1.54	NO	0.9597	29.60	29.81	NO	1.000	1.001	50.9	102	NO
10	1,2,3,4,7,8-PeCDF	6.94e5	1.30e6	1.55	1.55	NO	1.0871	30.87	30.87	NO	1.001	1.000	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.75e5	1.24	1.21	NO	0.9859	33.48	33.48	NO	1.000	1.000	48.7	97.3	NO
12	1,2,3,6,7,8-HxCDF	4.98e5	9.80e5	1.24	1.21	NO	1.0388	33.59	33.59	NO	1.001	1.001	48.9	97.7	NO
13	1,2,3,4,6,7,8-HxCDF	4.58e5	9.21e5	1.24	1.21	NO	1.0202	34.26	34.25	NO	1.001	1.000	48.5	97.0	NO

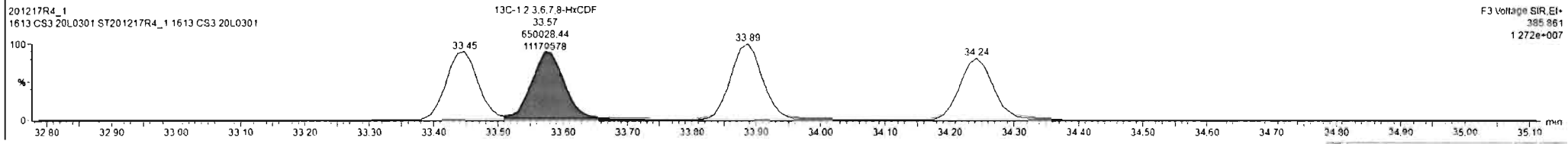
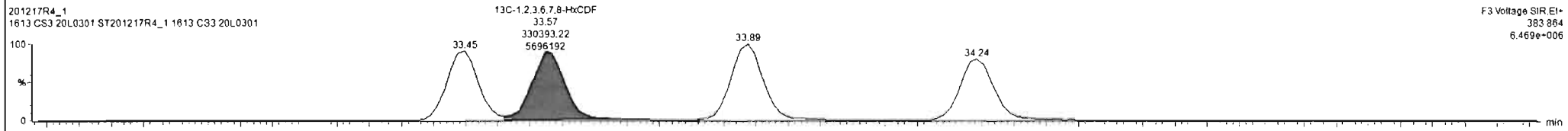
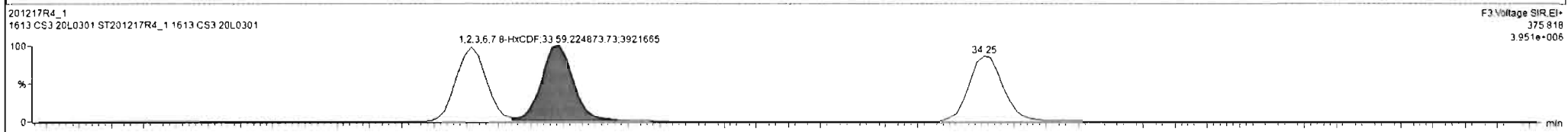
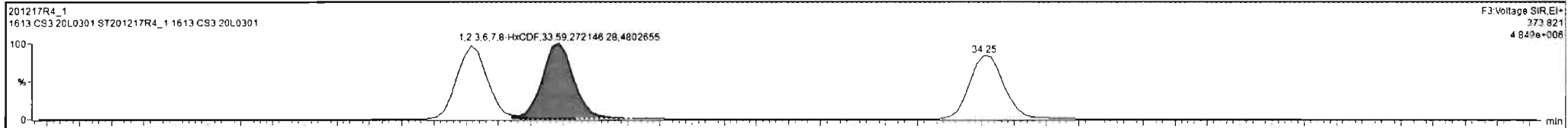


TargetLynx - 201217R4_1.L (Chromatogram)

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201217R4_1 ST201217R4_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	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	1.29e5	1.28e5	0.77	0.77	NO	0.9805	26.41	26.39	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	4.75e5	9.81e5	0.63	0.62	NO	0.9320	31.08	31.06	NO	1.001	1.000	52.0	104	NO
3	1,2,3,4,7,8-HxCDD	4.13e5	7.85e5	1.24	1.23	NO	1.0203	34.37	34.37	NO	1.001	1.001	51.6	103	NO
4	1,2,3,6,7,8-HxCDD	4.11e5	8.96e5	1.24	1.24	NO	0.9025	34.49	34.48	NO	1.001	1.000	50.9	102	NO
5	1,2,3,7,8,9-HxCDD	4.10e5	8.56e5	1.24	1.23	NO	0.9542	34.76	34.76	NO	1.000	1.000	50.2	100	NO
6	1,2,3,4,6,7,8-HpCDD	3.13e5	7.02e5	1.04	1.03	NO	0.9180	38.21	38.22	NO	1.000	1.001	48.7	97.4	NO
7	OCDD	5.26e5	1.17e6	0.89	0.86	NO	0.8658	41.12	41.13	NO	1.000	1.000	104	104	NO
8	2,3,7,8-TCDF	1.42e5	1.77e6	0.77	0.74	NO	0.8480	25.69	25.71	NO	1.000	1.001	9.50	95.0	NO
9	1,2,3,7,8-PeCDF	7.10e5	1.45e6	1.55	1.54	NO	0.9597	29.80	29.61	NO	1.000	1.001	50.9	102	NO
10	2,3,4,7,8-PeCDF	8.94e5	1.30e6	1.55	1.55	NO	1.0071	30.87	30.87	NO	1.001	1.000	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	4.67e5	9.73e5	1.24	1.21	NO	0.9059	33.46	33.46	NO	1.000	1.000	48.7	97.3	NO
12	1,2,3,6,7,8-HxCDF	4.97e5	9.80e5	1.24	1.21	NO	1.0388	33.59	33.59	NO	1.001	1.001	48.8	87.6	NO
13	2,3,4,6,7,8-HxCDF	4.58e5	9.21e5	1.24	1.21	NO	1.0202	34.26	34.25	NO	1.001	1.000	48.5	97.0	NO



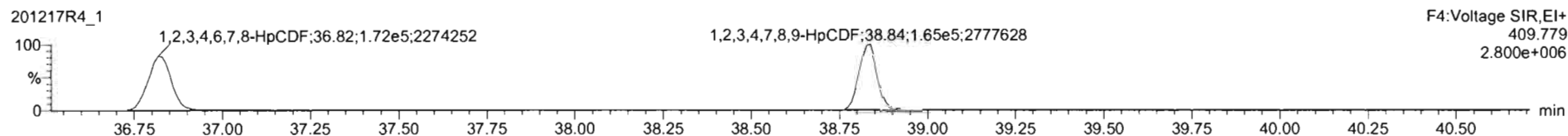
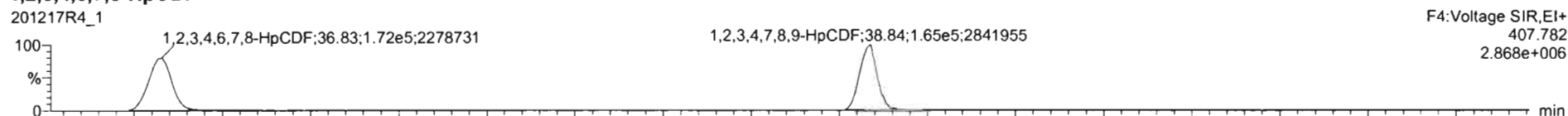
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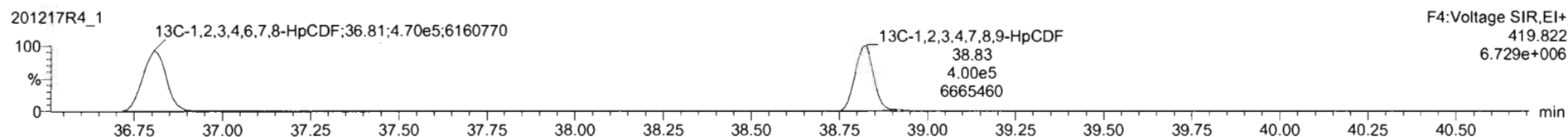
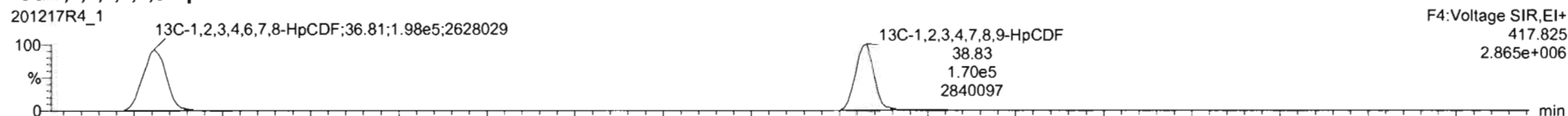
Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

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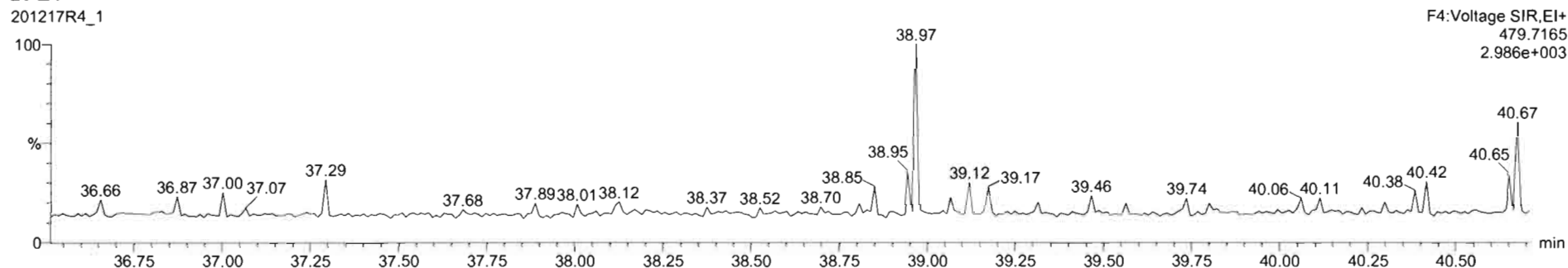
1,2,3,4,6,7,8-HpCDF



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



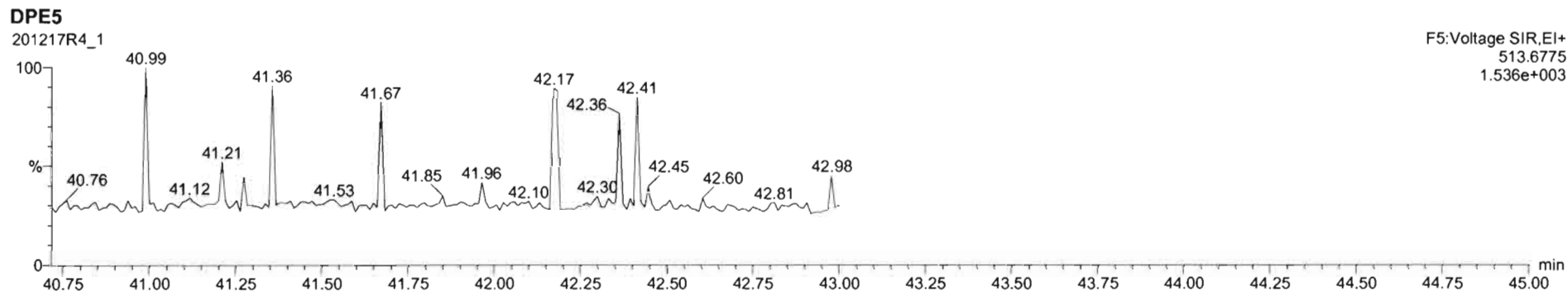
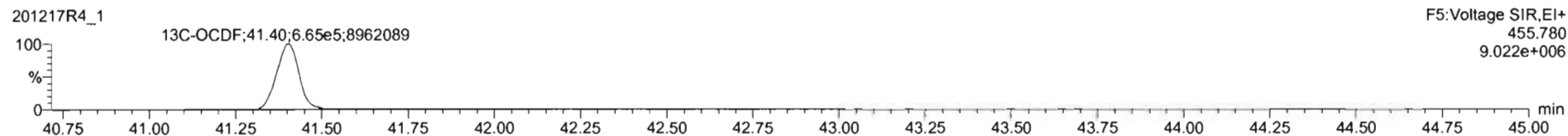
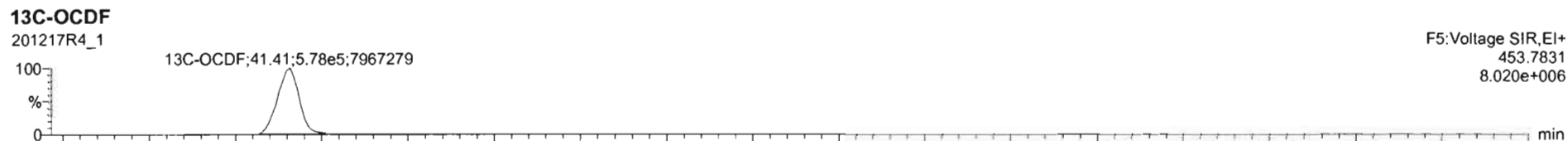
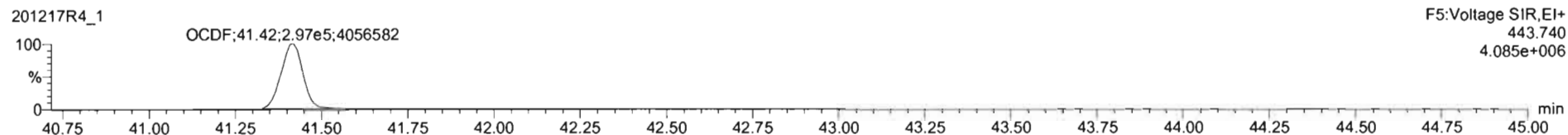
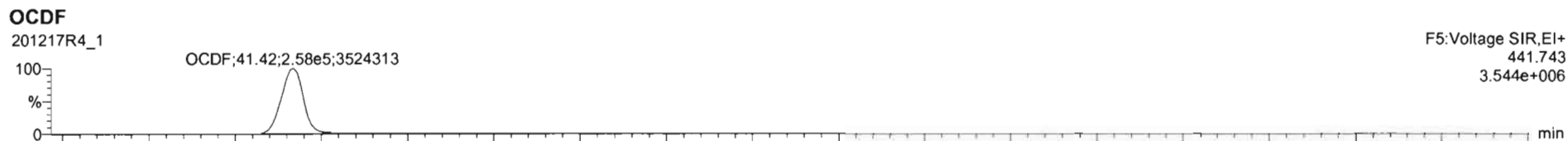
DPE4



Dataset: U:\VG12.PRO\Results\201217R4\201217R4_1.qld

Last Altered: Thursday, December 17, 2020 3:18:46 PM Pacific Standard Time
Printed: Thursday, December 17, 2020 3:19:48 PM Pacific Standard Time

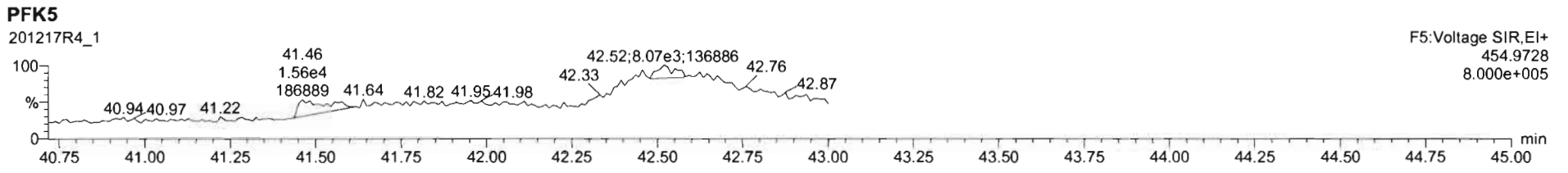
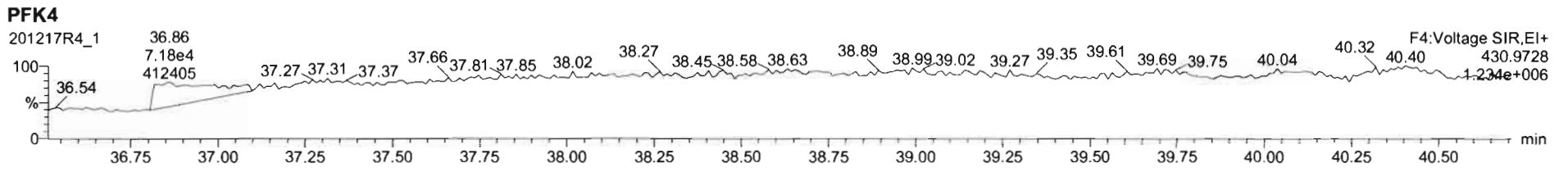
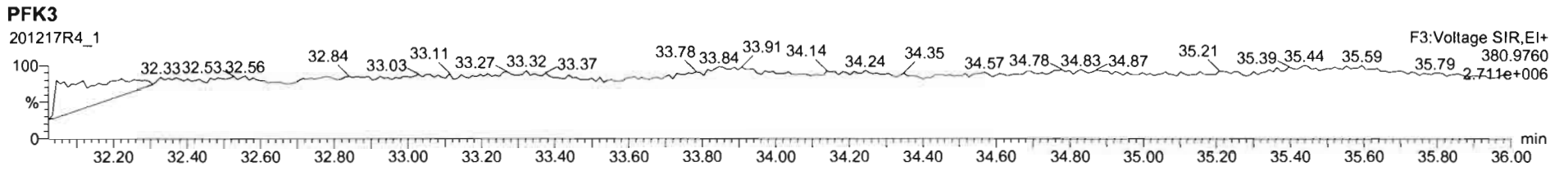
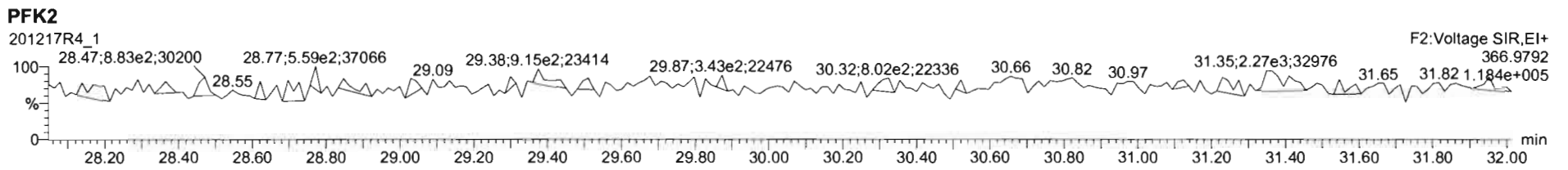
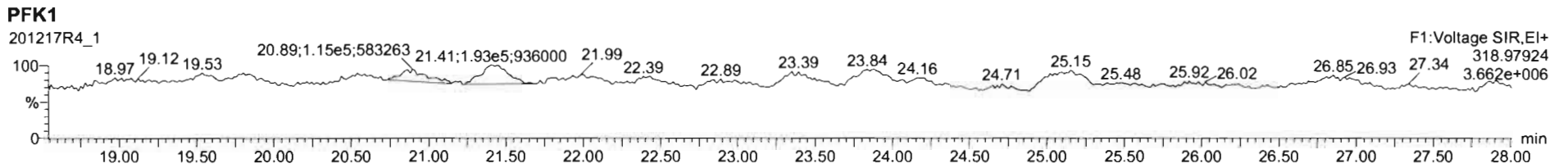
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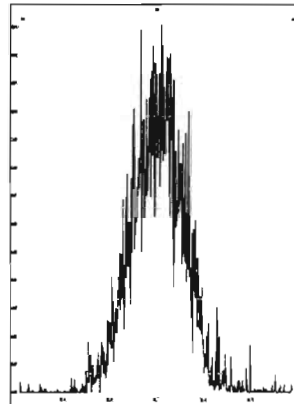
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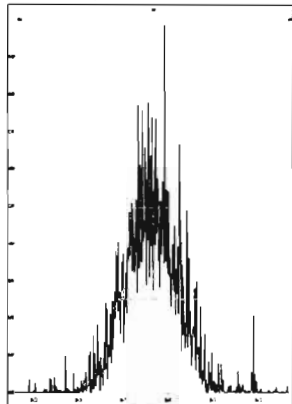
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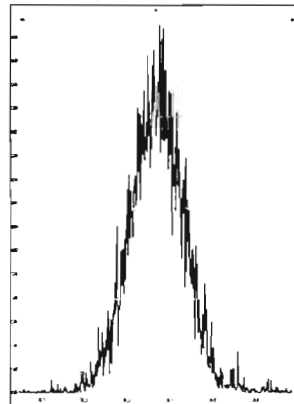
M 292.9824 R 13061



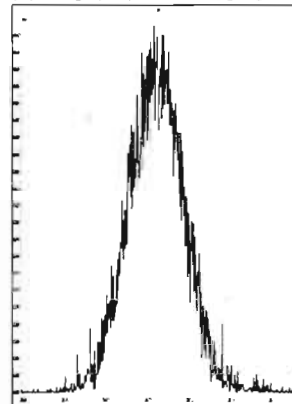
M 304.9824 R 14116



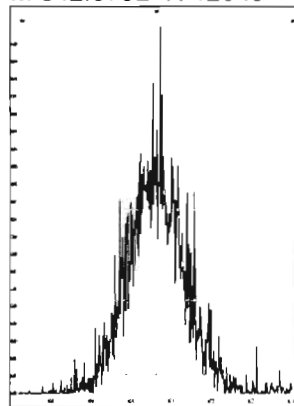
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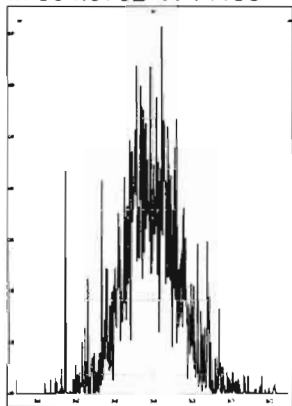
M 330.9792 R 12079



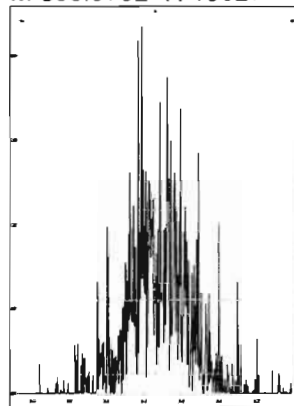
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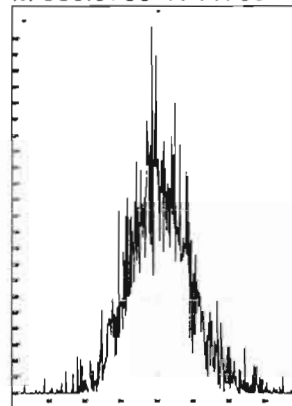
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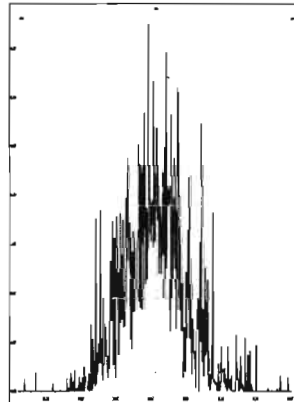
M 366.9792 R 19027



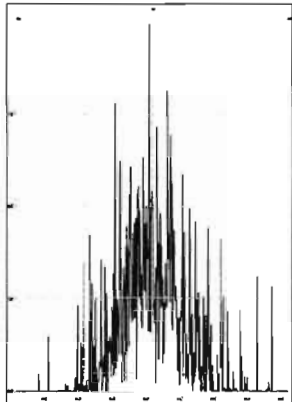
M 380.9760 R 11769



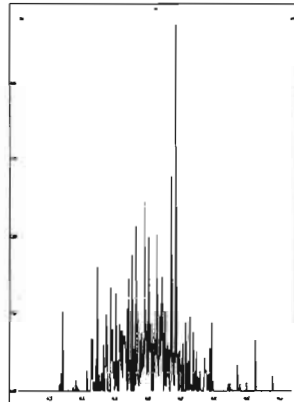
M 392.9760 R 13316



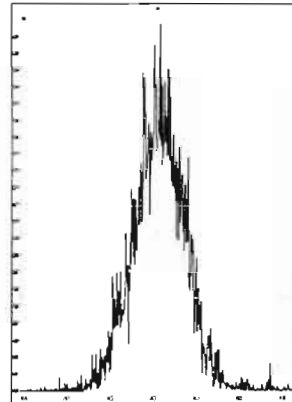
M 404.9760 R 30106



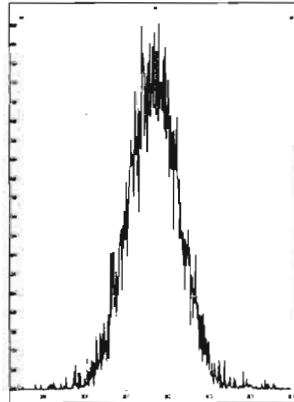
M 416.9760 R 453430



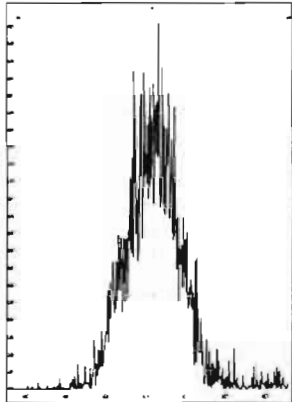
M 318.9792 R 13240



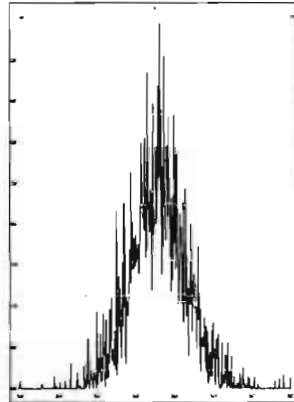
M 330.9792 R 11995



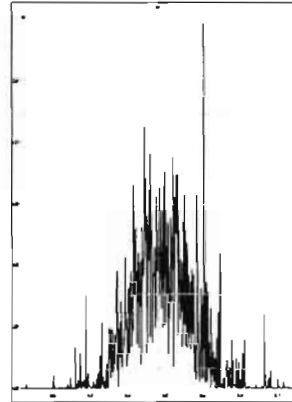
M 342.9792 R 12919



M 354.9792 R 13233

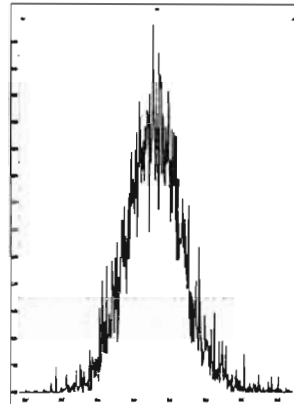


M 366.9792 R 15497

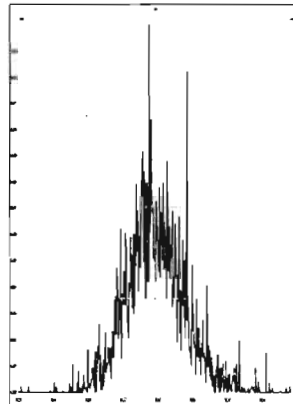


Printed: Friday, December 18, 2020 07:04:34 Pacific Standard Time

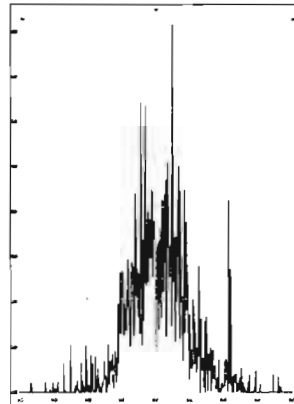
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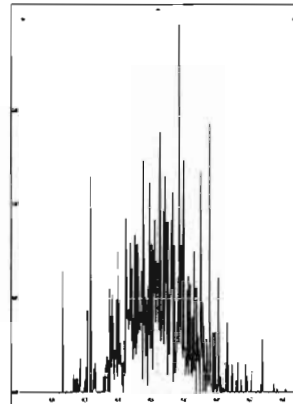
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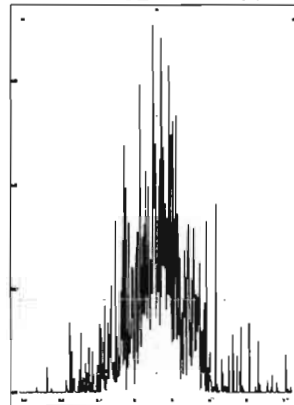
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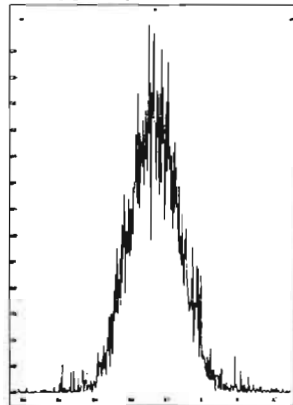
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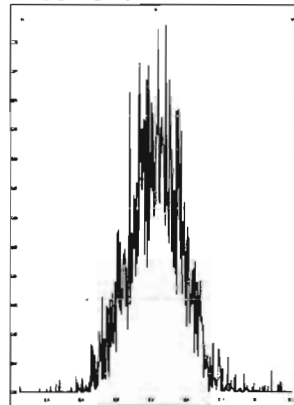
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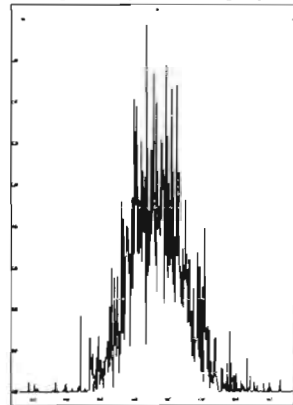
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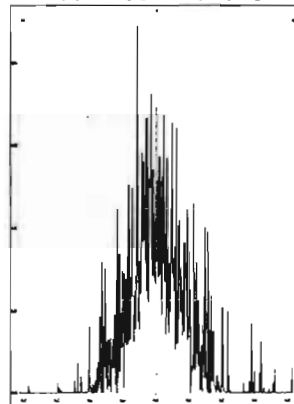
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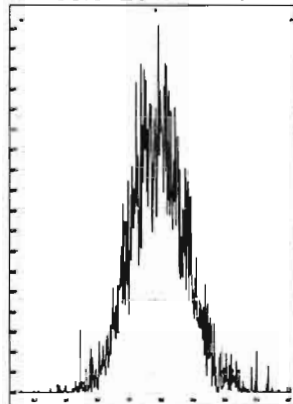
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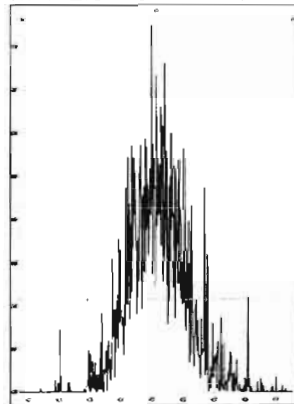
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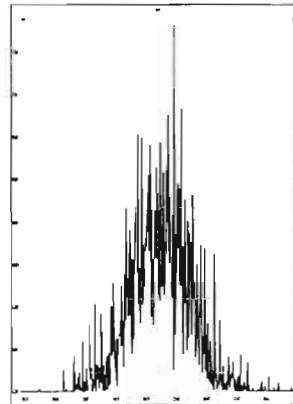
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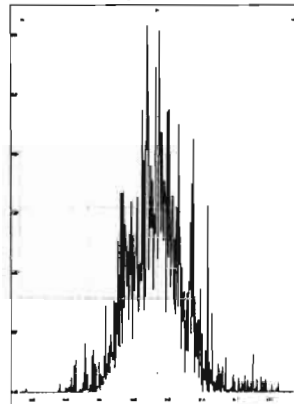
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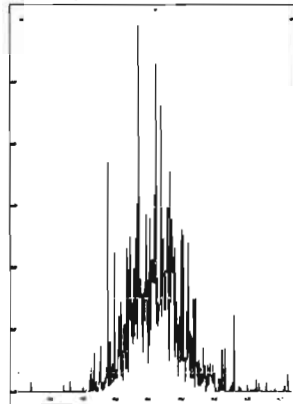
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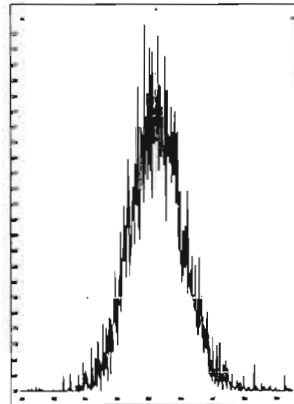
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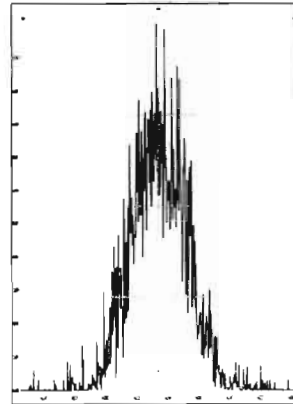
M 416.9760 R 15975



M 430.9728 R 13163

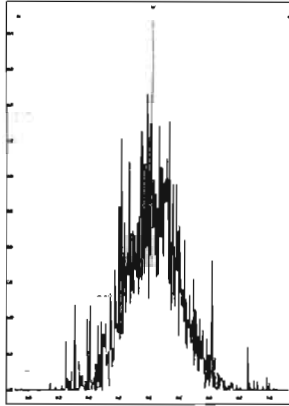


M 442.9728 R 14327

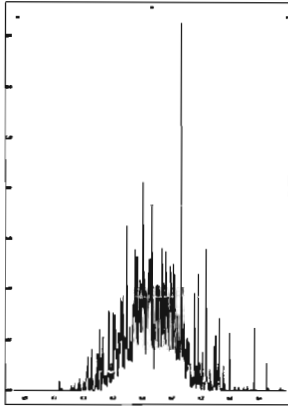


Printed: Friday, December 18, 2020 07:04:34 Pacific Standard Time

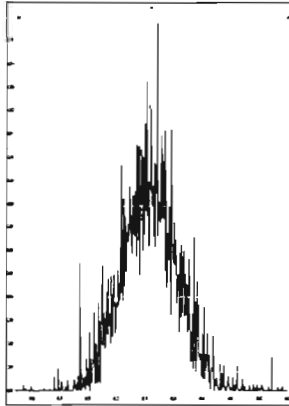
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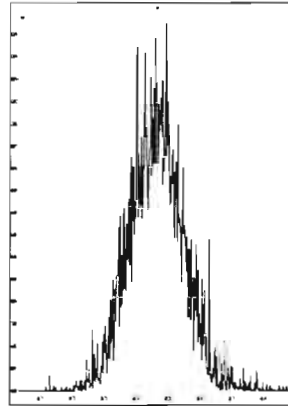
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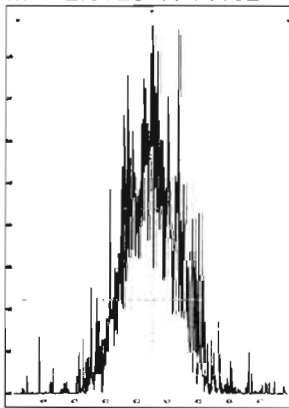
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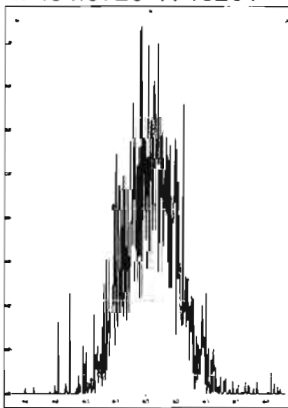
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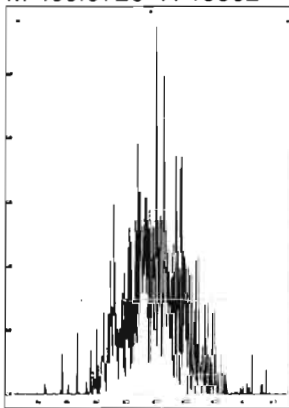
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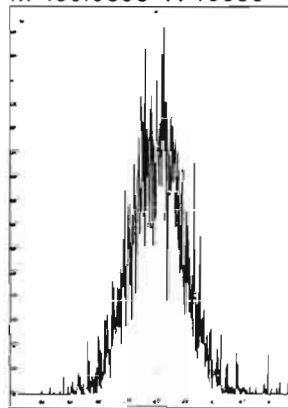
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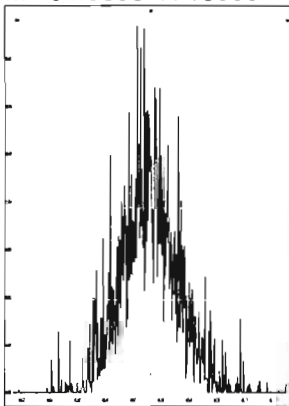
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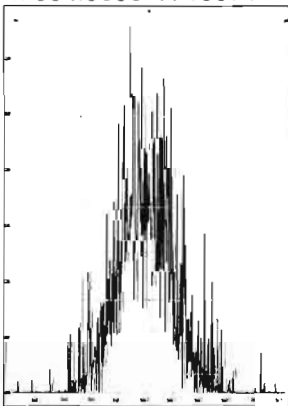
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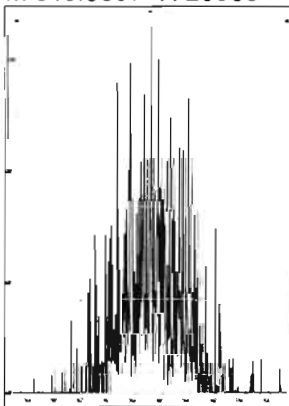
M 492.9696 R 13066



M 504.9696 R 15071



M 516.9697 R 20905



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 11:36:07 Pacific Standard Time
Printed: Friday, December 04, 2020 11:37:44 Pacific Standard Time

HN 12/04/2020

GPB 12/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Compound name: 2,3,7,8-TCDD

Response Factor: 0.980478
RRF SD: 0.0566851, Relative SD: 5.78138
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	201203R2_1	0.250	0.69	NO	25.98	1.000	1.86e3	7.27e5	0.261	4.5	1.02	MM
2	201203R2_2	0.500	0.81	NO	26.01	1.001	3.43e3	7.75e5	0.452	-9.6	0.886	MM
3	201203R2_3	2.00	0.78	NO	25.99	1.001	1.58e4	8.00e5	2.01	0.5	0.985	bb
4	201203R2_4	40.0	0.78	NO	25.99	1.001	3.98e5	9.54e5	42.5	6.4	1.04	bb
5	201203R2_5	300	0.78	NO	25.99	1.001	2.86e6	1.00e6	290	-3.3	0.948	bb
6	201203R2_6	10.0	0.77	NO	25.98	1.001	8.33e4	8.36e5	10.2	1.6	0.997	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.931961
RRF SD: 0.0759604, Relative SD: 8.1506
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	201203R2_1	1.25	0.56	NO	30.74	1.000	6.50e3	5.16e5	1.35	8.2	1.01	MM
2	201203R2_2	2.50	0.57	NO	30.76	1.001	1.18e4	5.51e5	2.29	-8.3	0.854	MM
3	201203R2_3	10.0	0.62	NO	30.74	1.000	5.55e4	5.88e5	10.1	1.3	0.944	MM
4	201203R2_4	200	0.62	NO	30.74	1.000	1.39e6	7.22e5	207	3.6	0.965	bb
5	201203R2_5	1500	0.63	NO	30.74	1.000	1.02e7	8.24e5	1330	-11.6	0.824	bb
6	201203R2_6	50.0	0.61	NO	30.73	1.000	2.93e5	5.89e5	53.4	6.8	0.996	bb

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 11:36:07 Pacific Standard Time
 Printed: Friday, December 04, 2020 11:37:44 Pacific Standard Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.02027

RRF SD: 0.089298, Relative SD: 8.75242

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	201203R2_1	1.25	1.21	NO	34.05	1.001	4.47e3	3.55e5	1.23	-1.2	1.01	MM
2	201203R2_2	2.50	1.23	NO	34.06	1.001	8.64e3	3.81e5	2.22	-11.0	0.908	bd
3	201203R2_3	10.0	1.22	NO	34.05	1.001	4.12e4	4.06e5	9.96	-0.4	1.02	bd
4	201203R2_4	200	1.26	NO	34.05	1.000	1.17e6	5.28e5	217	8.5	1.11	bd
5	201203R2_5	1500	1.25	NO	34.04	1.000	9.00e6	6.35e5	1390	-7.4	0.945	bd
6	201203R2_6	50.0	1.23	NO	34.04	1.000	2.42e5	4.26e5	55.8	11.6	1.14	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.902494

RRF SD: 0.0671114, Relative SD: 7.43621

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	201203R2_1	1.25	1.19	NO	34.17	1.000	5.01e3	4.26e5	1.30	4.0	0.939	db
2	201203R2_2	2.50	1.17	NO	34.19	1.001	9.36e3	4.55e5	2.28	-8.8	0.823	MM
3	201203R2_3	10.0	1.32	NO	34.17	1.001	4.48e4	4.87e5	10.2	2.0	0.921	db
4	201203R2_4	200	1.26	NO	34.17	1.000	1.18e6	6.16e5	213	6.6	0.962	db
5	201203R2_5	1500	1.25	NO	34.17	1.001	8.88e6	7.28e5	1350	-9.9	0.813	db
6	201203R2_6	50.0	1.24	NO	34.16	1.000	2.46e5	5.13e5	53.0	6.1	0.957	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.954157

RRF SD: 0.0657355, Relative SD: 6.88938

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	201203R2_1	1.25	1.32	NO	34.44	1.001	5.15e3	4.19e5	1.29	3.0	0.983	bb
2	201203R2_2	2.50	1.24	NO	34.44	1.000	1.00e4	4.56e5	2.30	-8.0	0.878	bb

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 11:36:07 Pacific Standard Time
 Printed: Friday, December 04, 2020 11:37:44 Pacific Standard Time

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	201203R2_3	10.0	1.23	NO	34.44	1.001	4.69e4	4.87e5	10.1	0.9	0.963	bb
4	201203R2_4	200	1.24	NO	34.44	1.000	1.20e6	5.99e5	210	4.8	1.00	bb
5	201203R2_5	1500	1.24	NO	34.43	1.000	9.22e6	7.06e5	1370	-8.7	0.871	bb
6	201203R2_6	50.0	1.26	NO	34.43	1.000	2.61e5	5.07e5	54.0	8.0	1.03	MM

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.918023
 RRF SD: 0.0609394, Relative SD: 6.63%
 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	201203R2_1	1.25	1.05	NO	37.91	1.000	3.95e3	3.21e5	1.34	7.2	0.984	MM
2	201203R2_2	2.50	1.06	NO	37.92	1.000	7.18e3	3.37e5	2.32	-7.2	0.852	MM
3	201203R2_3	10.0	1.06	NO	37.92	1.001	3.39e4	3.72e5	9.91	-0.9	0.910	MM
4	201203R2_4	200	1.03	NO	37.92	1.000	9.39e5	4.93e5	208	3.8	0.953	bb
5	201203R2_5	1500	1.04	NO	37.91	1.001	7.38e6	5.85e5	1370	-8.5	0.840	bb
6	201203R2_6	50.0	1.02	NO	37.91	1.001	1.90e5	3.92e5	52.8	5.5	0.969	bb

Compound name: OCDD

Response Factor: 0.865808
 RRF SD: 0.07035, Relative SD: 8.12536
 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	201203R2_1	2.50	0.83	NO	40.81	1.000	6.00e3	5.55e5	2.50	-0.1	0.865	bb
2	201203R2_2	5.00	0.89	NO	40.83	1.000	1.11e4	5.80e5	4.43	-11.4	0.767	MM
3	201203R2_3	20.0	0.84	NO	40.81	1.000	5.89e4	6.66e5	20.4	2.1	0.884	bb
4	201203R2_4	400	0.88	NO	40.81	1.000	1.59e6	8.50e5	432	7.9	0.935	bb
5	201203R2_5	3000	0.89	NO	40.81	1.000	1.27e7	1.06e6	2780	-7.4	0.802	bb
6	201203R2_6	100	0.88	NO	40.81	1.000	3.12e5	6.62e5	109	8.9	0.942	bb

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Compound name: 2,3,7,8-TCDF

Response Factor: 0.847967

RRF SD: 0.0725275, Relative SD: 8.5531

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	201203R2_1	0.250	0.73	NO	25.31	1.001	2.48e3	1.07e6	0.272	8.9	0.923	MM
2	201203R2_2	0.500	0.83	NO	25.30	1.001	4.29e3	1.14e6	0.442	-11.5	0.750	MM
3	201203R2_3	2.00	0.75	NO	25.30	1.001	1.90e4	1.17e6	1.92	-4.0	0.814	bb
4	201203R2_4	40.0	0.76	NO	25.30	1.001	4.93e5	1.37e6	42.3	5.8	0.897	MM
5	201203R2_5	300	0.76	NO	25.30	1.001	3.37e6	1.42e6	279	-6.8	0.790	bb
6	201203R2_6	10.0	0.75	NO	25.30	1.001	1.10e5	1.21e6	10.8	7.7	0.913	db

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.959665

RRF SD: 0.0738522, Relative SD: 7.69562

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	201203R2_1	1.25	1.56	NO	29.48	1.000	9.71e3	7.88e5	1.28	2.7	0.986	MM
2	201203R2_2	2.50	1.59	NO	29.49	1.000	1.84e4	8.48e5	2.26	-9.7	0.867	MM
3	201203R2_3	10.0	1.63	NO	29.48	1.000	8.91e4	9.03e5	10.3	2.8	0.986	bb
4	201203R2_4	200	1.57	NO	29.48	1.000	2.24e6	1.11e6	211	5.4	1.01	bb
5	201203R2_5	1500	1.57	NO	29.48	1.000	1.56e7	1.19e6	1360	-9.5	0.869	bb
6	201203R2_6	50.0	1.61	NO	29.46	1.000	4.70e5	9.04e5	54.1	8.3	1.04	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 1.06715

RRF SD: 0.100434, Relative SD: 9.41144

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	201203R2_1	1.25	1.52	NO	30.55	1.000	1.08e4	7.63e5	1.32	6.0	1.13	bb
2	201203R2_2	2.50	1.59	NO	30.55	1.000	1.87e4	8.14e5	2.16	-13.7	0.921	MM

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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	201203R2_3	10.0	1.63	NO	30.55	1.000	9.54e4	8.55e5	10.5	4.5	1.12	MM
4	201203R2_4	200	1.56	NO	30.55	1.000	2.37e6	1.06e6	208	4.2	1.11	bb
5	201203R2_5	1500	1.55	NO	30.55	1.000	1.67e7	1.16e6	1350	-10.0	0.961	bb
6	201203R2_6	50.0	1.56	NO	30.53	1.000	5.09e5	8.75e5	54.5	9.0	1.16	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.9859

RRF SD: 0.0865731, Relative SD: 8.78113

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	201203R2_1	1.25	1.29	NO	33.15	1.001	6.18e3	5.15e5	1.22	-2.7	0.959	bd
2	201203R2_2	2.50	1.18	NO	33.16	1.001	1.20e4	5.49e5	2.21	-11.6	0.872	bd
3	201203R2_3	10.0	1.26	NO	33.15	1.000	6.08e4	5.80e5	10.6	6.4	1.05	bd
4	201203R2_4	200	1.23	NO	33.16	1.001	1.55e6	7.36e5	213	6.5	1.05	bd
5	201203R2_5	1500	1.23	NO	33.15	1.001	1.15e7	8.47e5	1380	-8.3	0.904	bd
6	201203R2_6	50.0	1.23	NO	33.15	1.001	3.29e5	6.08e5	54.8	9.6	1.08	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 1.03876

RRF SD: 0.0872692, Relative SD: 8.40126

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	201203R2_1	1.25	1.27	NO	33.29	1.001	7.32e3	5.47e5	1.29	3.1	1.07	MM
2	201203R2_2	2.50	1.22	NO	33.29	1.000	1.37e4	5.90e5	2.23	-10.8	0.927	MM
3	201203R2_3	10.0	1.27	NO	33.29	1.001	6.64e4	6.28e5	10.2	1.9	1.06	db
4	201203R2_4	200	1.22	NO	33.29	1.000	1.74e6	7.93e5	211	5.7	1.10	db
5	201203R2_5	1500	1.24	NO	33.28	1.000	1.26e7	8.97e5	1350	-9.7	0.938	db
6	201203R2_6	50.0	1.24	NO	33.28	1.001	3.68e5	6.44e5	54.9	9.9	1.14	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 1.02016

RRF SD: 0.0860672, Relative SD: 8.43661

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	201203R2_1	1.25	1.25	NO	33.95	1.001	6.57e3	4.91e5	1.31	5.0	1.07	MM
2	201203R2_2	2.50	1.22	NO	33.96	1.001	1.17e4	5.25e5	2.19	-12.3	0.895	MM
3	201203R2_3	10.0	1.26	NO	33.95	1.001	5.87e4	5.65e5	10.2	1.8	1.04	bb
4	201203R2_4	200	1.23	NO	33.95	1.001	1.54e6	7.08e5	213	6.6	1.09	bb
5	201203R2_5	1500	1.22	NO	33.94	1.000	1.14e7	8.16e5	1370	-8.7	0.932	bb
6	201203R2_6	50.0	1.25	NO	33.94	1.001	3.27e5	5.97e5	53.8	7.6	1.10	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.99094

RRF SD: 0.0846908, Relative SD: 8.54651

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	201203R2_1	1.25	1.26	NO	34.94	1.001	5.61e3	4.28e5	1.32	5.8	1.05	MM
2	201203R2_2	2.50	1.32	NO	34.94	1.000	1.03e4	4.73e5	2.19	-12.6	0.867	bb
3	201203R2_3	10.0	1.25	NO	34.94	1.001	5.03e4	5.05e5	10.1	0.6	0.997	MM
4	201203R2_4	200	1.25	NO	34.93	1.000	1.43e6	6.76e5	213	6.7	1.06	bb
5	201203R2_5	1500	1.23	NO	34.92	1.000	1.09e7	7.99e5	1380	-8.3	0.909	bb
6	201203R2_6	50.0	1.25	NO	34.92	1.000	2.95e5	5.53e5	53.9	7.7	1.07	MM

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 1.04917

RRF SD: 0.0785065, Relative SD: 7.48269

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	201203R2_1	1.25	1.07	NO	36.49	1.000	5.72e3	4.27e5	1.28	2.1	1.07	MM
2	201203R2_2	2.50	0.94	NO	36.50	1.000	1.06e4	4.51e5	2.24	-10.4	0.940	bb

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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	201203R2_3	10.0	0.98	NO	36.49	1.000	5.28e4	4.95e5	10.2	1.6	1.07	bb
4	201203R2_4	200	1.01	NO	36.50	1.000	1.36e6	6.02e5	215	7.7	1.13	bb
5	201203R2_5	1500	1.02	NO	36.49	1.001	1.02e7	7.02e5	1380	-7.8	0.967	bb
6	201203R2_6	50.0	1.02	NO	36.47	1.000	2.86e5	5.12e5	53.3	6.7	1.12	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.17589

RRF SD: 0.0886789, Relative SD: 7.54143

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	201203R2_1	1.25	0.89	NO	38.55	1.000	4.14e3	2.76e5	1.28	2.3	1.20	MM
2	201203R2_2	2.50	1.00	NO	38.55	1.000	7.84e3	2.93e5	2.27	-9.1	1.07	MM
3	201203R2_3	10.0	0.99	NO	38.55	1.001	3.75e4	3.22e5	9.90	-1.0	1.16	bb
4	201203R2_4	200	1.02	NO	38.54	1.001	1.06e6	4.21e5	214	7.1	1.26	bb
5	201203R2_5	1500	1.02	NO	38.53	1.000	8.34e6	5.15e5	1380	-8.2	1.08	bb
6	201203R2_6	50.0	1.03	NO	38.54	1.000	2.15e5	3.36e5	54.4	8.8	1.28	bb

Compound name: OCDF

Response Factor: 0.895953

RRF SD: 0.0701579, Relative SD: 7.83054

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	201203R2_1	2.50	0.93	NO	41.09	1.000	7.18e3	6.13e5	2.61	4.6	0.937	MM
2	201203R2_2	5.00	0.90	NO	41.11	1.000	1.32e4	6.61e5	4.46	-10.7	0.800	MM
3	201203R2_3	20.0	0.86	NO	41.10	1.000	6.64e4	7.40e5	20.0	0.2	0.898	bb
4	201203R2_4	400	0.89	NO	41.09	1.000	1.89e6	9.93e5	425	6.3	0.952	MM
5	201203R2_5	3000	0.89	NO	41.09	1.000	1.50e7	1.22e6	2750	-8.3	0.822	bb
6	201203R2_6	100	0.88	NO	41.09	1.000	3.70e5	7.64e5	108	7.9	0.967	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.05554

RRF SD: 0.132152, Relative SD: 12.5199

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	201203R2_1	100	0.77	NO	25.98	1.031	7.27e5	7.80e5	88.4	-11.6	0.933	bb
2	201203R2_2	100	0.76	NO	25.98	1.031	7.75e5	8.11e5	90.5	-9.5	0.955	bb
3	201203R2_3	100	0.77	NO	25.98	1.031	8.00e5	8.35e5	90.8	-9.2	0.958	bb
4	201203R2_4	100	0.79	NO	25.98	1.031	9.54e5	8.19e5	110	10.3	1.16	bb
5	201203R2_5	100	0.78	NO	25.98	1.031	1.00e6	7.99e5	119	19.2	1.26	bb
6	201203R2_6	100	0.78	NO	25.97	1.031	8.36e5	7.85e5	101	0.9	1.07	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.784679

RRF SD: 0.1443, Relative SD: 18.3896

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	201203R2_1	100	0.62	NO	30.73	1.219	5.16e5	7.80e5	84.3	-15.7	0.662	bb
2	201203R2_2	100	0.63	NO	30.73	1.219	5.51e5	8.11e5	86.6	-13.4	0.679	bb
3	201203R2_3	100	0.62	NO	30.73	1.219	5.88e5	8.35e5	89.8	-10.2	0.704	bb
4	201203R2_4	100	0.63	NO	30.73	1.219	7.22e5	8.19e5	112	12.4	0.882	bb
5	201203R2_5	100	0.63	NO	30.73	1.219	8.24e5	7.99e5	131	31.4	1.03	bb
6	201203R2_6	100	0.64	NO	30.71	1.219	5.89e5	7.85e5	95.6	-4.4	0.750	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.620541

RRF SD: 0.0984404, Relative SD: 15.8637

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	201203R2_1	100	1.26	NO	34.03	1.014	3.55e5	6.41e5	89.2	-10.8	0.553	bd
2	201203R2_2	100	1.27	NO	34.04	1.014	3.81e5	6.94e5	88.5	-11.5	0.549	bd

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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	201203R2_3	100	1.27	NO	34.03	1.014	4.06e5	7.47e5	87.6	-12.4	0.544	bd
4	201203R2_4	100	1.30	NO	34.04	1.014	5.28e5	7.82e5	109	8.9	0.676	bd
5	201203R2_5	100	1.28	NO	34.03	1.013	6.35e5	8.01e5	128	27.7	0.793	bd
6	201203R2_6	100	1.28	NO	34.03	1.014	4.26e5	6.99e5	98.1	-1.9	0.609	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.734012

RRF SD: 0.101028, Relative SD: 13.7638

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	201203R2_1	100	1.29	NO	34.16	1.018	4.26e5	6.41e5	90.7	-9.3	0.665	db
2	201203R2_2	100	1.28	NO	34.16	1.017	4.55e5	6.94e5	89.4	-10.6	0.656	db
3	201203R2_3	100	1.28	NO	34.15	1.017	4.87e5	7.47e5	88.8	-11.2	0.651	db
4	201203R2_4	100	1.27	NO	34.16	1.017	6.16e5	7.82e5	107	7.3	0.788	db
5	201203R2_5	100	1.27	NO	34.15	1.017	7.28e5	8.01e5	124	23.8	0.909	db
6	201203R2_6	100	1.26	NO	34.15	1.017	5.13e5	6.99e5	100	0.1	0.735	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.72265

RRF SD: 0.0908822, Relative SD: 12.5762

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	201203R2_1	100	1.25	NO	34.42	1.025	4.19e5	6.41e5	90.4	-9.6	0.653	bd
2	201203R2_2	100	1.26	NO	34.43	1.025	4.56e5	6.94e5	91.0	-9.0	0.657	bb
3	201203R2_3	100	1.26	NO	34.42	1.025	4.87e5	7.47e5	90.2	-9.8	0.652	MM
4	201203R2_4	100	1.24	NO	34.43	1.025	5.99e5	7.82e5	106	6.1	0.766	bb
5	201203R2_5	100	1.26	NO	34.42	1.025	7.06e5	8.01e5	122	22.0	0.882	bb
6	201203R2_6	100	1.25	NO	34.42	1.025	5.07e5	6.99e5	100	0.3	0.725	bb

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

Response Factor: 0.567736

RRF SD: 0.0966968, Relative SD: 17.032

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	201203R2_1	100	1.06	NO	37.90	1.129	3.21e5	6.41e5	88.2	-11.8	0.501	MM
2	201203R2_2	100	1.05	NO	37.91	1.129	3.37e5	6.94e5	85.5	-14.5	0.485	bb
3	201203R2_3	100	1.06	NO	37.90	1.129	3.72e5	7.47e5	87.8	-12.2	0.498	MM
4	201203R2_4	100	1.04	NO	37.91	1.129	4.93e5	7.82e5	111	11.0	0.630	bb
5	201203R2_5	100	1.05	NO	37.89	1.128	5.85e5	8.01e5	129	28.8	0.731	bb
6	201203R2_6	100	1.06	NO	37.89	1.129	3.92e5	6.99e5	98.7	-1.3	0.561	bb

Compound name: 13C-OCDD

Response Factor: 0.49583

RRF SD: 0.0921522, Relative SD: 18.5854

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	201203R2_1	200	0.89	NO	40.80	1.215	5.55e5	6.41e5	175	-12.7	0.433	MM
2	201203R2_2	200	0.88	NO	40.81	1.215	5.80e5	6.94e5	169	-15.7	0.418	MM
3	201203R2_3	200	0.91	NO	40.80	1.215	6.66e5	7.47e5	180	-10.0	0.446	bd
4	201203R2_4	200	0.89	NO	40.80	1.215	8.50e5	7.82e5	219	9.7	0.544	bb
5	201203R2_5	200	0.89	NO	40.80	1.215	1.06e6	8.01e5	267	33.3	0.661	bb
6	201203R2_6	200	0.89	NO	40.80	1.215	6.62e5	6.99e5	191	-4.5	0.474	bb

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 0.919039

RRF SD: 0.110551, Relative SD: 12.029

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	201203R2_1	100	0.78	NO	25.28	1.003	1.07e6	1.32e6	88.7	-11.3	0.815	bb
2	201203R2_2	100	0.79	NO	25.28	1.003	1.14e6	1.36e6	91.6	-8.4	0.842	bb

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Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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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	201203R2_3	100	0.76	NO	25.28	1.003	1.17e6	1.40e6	90.7	-9.3	0.834	bb
4	201203R2_4	100	0.79	NO	25.28	1.003	1.37e6	1.36e6	110	9.9	1.01	bb
5	201203R2_5	100	0.77	NO	25.28	1.003	1.42e6	1.31e6	118	18.5	1.09	bb
6	201203R2_6	100	0.77	NO	25.27	1.003	1.21e6	1.30e6	101	0.7	0.925	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.715118

RRF SD: 0.124185, Relative SD: 17.3657

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	201203R2_1	100	1.62	NO	29.46	1.169	7.88e5	1.32e6	83.6	-16.4	0.598	MM
2	201203R2_2	100	1.60	NO	29.48	1.169	8.48e5	1.36e6	87.3	-12.7	0.624	bb
3	201203R2_3	100	1.61	NO	29.46	1.169	9.03e5	1.40e6	90.3	-9.7	0.646	bb
4	201203R2_4	100	1.57	NO	29.48	1.169	1.11e6	1.36e6	114	13.8	0.814	bb
5	201203R2_5	100	1.59	NO	29.46	1.169	1.19e6	1.31e6	128	28.0	0.915	bb
6	201203R2_6	100	1.63	NO	29.46	1.169	9.04e5	1.30e6	97.0	-3.0	0.694	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.688531

RRF SD: 0.122291, Relative SD: 17.7611

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	201203R2_1	100	1.62	NO	30.53	1.211	7.63e5	1.32e6	84.1	-15.9	0.579	bb
2	201203R2_2	100	1.59	NO	30.53	1.211	8.14e5	1.36e6	87.1	-12.9	0.599	MM
3	201203R2_3	100	1.60	NO	30.53	1.212	8.55e5	1.40e6	88.8	-11.2	0.611	bb
4	201203R2_4	100	1.59	NO	30.53	1.211	1.06e6	1.36e6	114	13.6	0.782	bb
5	201203R2_5	100	1.59	NO	30.53	1.212	1.16e6	1.31e6	129	29.0	0.888	bb
6	201203R2_6	100	1.63	NO	30.52	1.211	8.75e5	1.30e6	97.5	-2.5	0.671	bb

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 0.873401

RRF SD: 0.109302, Relative SD: 12.5145

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	201203R2_1	100	0.51	NO	33.13	0.987	5.15e5	6.41e5	92.0	-8.0	0.804	bd
2	201203R2_2	100	0.51	NO	33.14	0.987	5.49e5	6.94e5	90.7	-9.3	0.792	bd
3	201203R2_3	100	0.50	NO	33.14	0.987	5.80e5	7.47e5	88.8	-11.2	0.776	bd
4	201203R2_4	100	0.51	NO	33.14	0.987	7.36e5	7.82e5	108	7.8	0.941	bd
5	201203R2_5	100	0.51	NO	33.13	0.987	8.47e5	8.01e5	121	21.1	1.06	bd
6	201203R2_6	100	0.50	NO	33.13	0.987	6.08e5	6.99e5	99.6	-0.4	0.870	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 0.933484

RRF SD: 0.112711, Relative SD: 12.0743

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	201203R2_1	100	0.50	NO	33.27	0.991	5.47e5	6.41e5	91.4	-8.6	0.854	db
2	201203R2_2	100	0.52	NO	33.28	0.991	5.90e5	6.94e5	91.0	-9.0	0.850	MM
3	201203R2_3	100	0.51	NO	33.27	0.991	6.28e5	7.47e5	90.0	-10.0	0.841	db
4	201203R2_4	100	0.50	NO	33.28	0.991	7.93e5	7.82e5	109	8.7	1.01	db
5	201203R2_5	100	0.51	NO	33.27	0.991	8.97e5	8.01e5	120	20.0	1.12	db
6	201203R2_6	100	0.50	NO	33.26	0.991	6.44e5	6.99e5	98.8	-1.2	0.922	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 0.843038

RRF SD: 0.105848, Relative SD: 12.5555

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	201203R2_1	100	0.50	NO	33.93	1.011	4.91e5	6.41e5	90.9	-9.1	0.766	MM
2	201203R2_2	100	0.50	NO	33.94	1.011	5.25e5	6.94e5	89.8	-10.2	0.757	MM

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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	201203R2_3	100	0.51	NO	33.93	1.011	5.65e5	7.47e5	89.7	-10.3	0.756	bb
4	201203R2_4	100	0.51	NO	33.93	1.010	7.08e5	7.82e5	107	7.5	0.906	bb
5	201203R2_5	100	0.51	NO	33.93	1.010	8.16e5	8.01e5	121	20.9	1.02	bb
6	201203R2_6	100	0.51	NO	33.92	1.010	5.97e5	6.99e5	101	1.2	0.853	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.7799

RRF SD: 0.132819, Relative SD: 17.0303

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	201203R2_1	100	0.51	NO	34.92	1.040	4.28e5	6.41e5	85.6	-14.4	0.667	MM
2	201203R2_2	100	0.50	NO	34.93	1.040	4.73e5	6.94e5	87.5	-12.5	0.682	MM
3	201203R2_3	100	0.52	NO	34.92	1.040	5.05e5	7.47e5	86.6	-13.4	0.676	MM
4	201203R2_4	100	0.52	NO	34.92	1.040	6.76e5	7.82e5	111	10.9	0.865	MM
5	201203R2_5	100	0.51	NO	34.91	1.040	7.99e5	8.01e5	128	28.0	0.998	bb
6	201203R2_6	100	0.49	NO	34.91	1.040	5.53e5	6.99e5	101	1.4	0.791	bb

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

Response Factor: 0.726456

RRF SD: 0.0871718, Relative SD: 11.9096

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	201203R2_1	100	0.42	NO	36.48	1.087	4.27e5	6.41e5	91.8	-8.2	0.667	bb
2	201203R2_2	100	0.42	NO	36.49	1.087	4.51e5	6.94e5	89.6	-10.4	0.651	bb
3	201203R2_3	100	0.43	NO	36.47	1.087	4.95e5	7.47e5	91.2	-8.8	0.663	bb
4	201203R2_4	100	0.42	NO	36.49	1.087	6.02e5	7.82e5	106	6.0	0.770	bb
5	201203R2_5	100	0.43	NO	36.47	1.086	7.02e5	8.01e5	121	20.7	0.877	bb
6	201203R2_6	100	0.43	NO	36.47	1.086	5.12e5	6.99e5	101	0.7	0.732	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.49111

RRF SD: 0.0867845, Relative SD: 17.6711

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	201203R2_1	100	0.42	NO	38.53	1.148	2.76e5	6.41e5	87.5	-12.5	0.430	MM
2	201203R2_2	100	0.42	NO	38.54	1.148	2.93e5	6.94e5	86.1	-13.9	0.423	bb
3	201203R2_3	100	0.40	NO	38.53	1.148	3.22e5	7.47e5	87.7	-12.3	0.431	bb
4	201203R2_4	100	0.42	NO	38.52	1.147	4.21e5	7.82e5	110	9.8	0.539	bb
5	201203R2_5	100	0.42	NO	38.52	1.147	5.15e5	8.01e5	131	31.0	0.643	bb
6	201203R2_6	100	0.42	NO	38.53	1.148	3.36e5	6.99e5	97.9	-2.1	0.481	bb

Compound name: 13C-OCDF

Response Factor: 0.565418

RRF SD: 0.112698, Relative SD: 19.9318

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	201203R2_1	200	0.87	NO	41.09	1.224	6.13e5	6.41e5	169	-15.4	0.478	MM
2	201203R2_2	200	0.89	NO	41.10	1.224	6.61e5	6.94e5	169	-15.7	0.477	MM
3	201203R2_3	200	0.89	NO	41.08	1.224	7.40e5	7.47e5	175	-12.4	0.495	bb
4	201203R2_4	200	0.89	NO	41.08	1.223	9.93e5	7.82e5	225	12.4	0.636	MM
5	201203R2_5	200	0.88	NO	41.07	1.223	1.22e6	8.01e5	269	34.4	0.760	bb
6	201203R2_6	200	0.87	NO	41.08	1.224	7.64e5	6.99e5	193	-3.3	0.547	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.21674

RRF SD: 0.217315, Relative SD: 17.8605

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	201203R2_1	0.250			26.01	1.032	2.03e3	7.80e5	0.214	-14.5	1.04	bb
2	201203R2_2	0.500			26.01	1.032	4.12e3	8.11e5	0.418	-16.4	1.02	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	201203R2_3	2.00			25.99	1.032	1.69e4	8.35e5	1.66	-16.8	1.01	bb
4	201203R2_4	40.0			25.99	1.031	4.66e5	8.19e5	46.8	16.9	1.42	bb
5	201203R2_5	200			25.99	1.032	2.36e6	7.99e5	243	21.5	1.48	bb
6	201203R2_6	10.0			25.98	1.031	1.04e5	7.85e5	10.9	9.3	1.33	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	201203R2_1	100	0.79	NO	25.21	1.000	7.80e5	7.80e5	100	0.0	1.00	bb
2	201203R2_2	100	0.78	NO	25.21	1.000	8.11e5	8.11e5	100	0.0	1.00	bb
3	201203R2_3	100	0.78	NO	25.20	1.000	8.35e5	8.35e5	100	0.0	1.00	bb
4	201203R2_4	100	0.77	NO	25.21	1.000	8.19e5	8.19e5	100	0.0	1.00	bb
5	201203R2_5	100	0.77	NO	25.20	1.000	7.99e5	7.99e5	100	0.0	1.00	bb
6	201203R2_6	100	0.79	NO	25.20	1.000	7.85e5	7.85e5	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	201203R2_1	100	0.79	NO	23.69	1.000	1.32e6	1.32e6	100	0.0	1.00	bb
2	201203R2_2	100	0.78	NO	23.69	1.000	1.36e6	1.36e6	100	0.0	1.00	bb
3	201203R2_3	100	0.79	NO	23.67	1.000	1.40e6	1.40e6	100	0.0	1.00	bb
4	201203R2_4	100	0.78	NO	23.67	1.000	1.36e6	1.36e6	100	0.0	1.00	bb
5	201203R2_5	100	0.79	NO	23.69	1.000	1.31e6	1.31e6	100	0.0	1.00	bb
6	201203R2_6	100	0.79	NO	23.66	1.000	1.30e6	1.30e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 11:36:07 Pacific Standard Time

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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	201203R2_1	100	0.50	NO	33.57	1.000	6.41e5	6.41e5	100	0.0	1.00	bb
2	201203R2_2	100	0.52	NO	33.58	1.000	6.94e5	6.94e5	100	0.0	1.00	bb
3	201203R2_3	100	0.51	NO	33.57	1.000	7.47e5	7.47e5	100	0.0	1.00	bb
4	201203R2_4	100	0.51	NO	33.58	1.000	7.82e5	7.82e5	100	0.0	1.00	bb
5	201203R2_5	100	0.51	NO	33.58	1.000	8.01e5	8.01e5	100	0.0	1.00	bb
6	201203R2_6	100	0.50	NO	33.57	1.000	6.99e5	6.99e5	100	0.0	1.00	bb

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, December 04, 2020 12:05:28 Pacific Standard Time

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Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Compound name: 2,3,7,8-TCDD

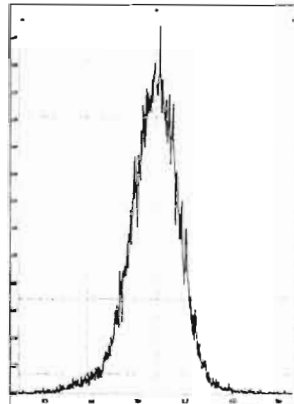
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1	201203R2_1	ST201203R2_1 1613 CS0 20K1901	03-Dec-20	10:36:45
2	201203R2_2	ST201203R2_2 1613 CS1 20K1902	03-Dec-20	11:28:04
3	201203R2_3	ST201203R2_3 1613 CS2 20K1903	03-Dec-20	12:14:40
4	201203R2_4	ST201203R2_4 1613 CS4 20L0302	03-Dec-20	13:00:37
5	201203R2_5	ST201203R2_5 1613 CS5 20L0303	03-Dec-20	13:47:04
6	201203R2_6	ST201203R2_6 1613 CS3 20L0301	03-Dec-20	14:35:05
7	201203R2_7	SOLVENT BLANK	03-Dec-20	15:21:59
8	201203R2_8	SS201203R2_1 1613 SSS 20K1907	03-Dec-20	16:09:07
9	201203R2_9	SOLVENT BLANK	03-Dec-20	17:02:58
10	201203R2_10	2002458-01 GW-1212 0.93004	03-Dec-20	17:47:52
11	201203R2_11	2002458-02 GW-1213 0.92278	03-Dec-20	18:32:46
12	201203R2_12	2002458-03 GW-1246 0.9578	03-Dec-20	19:17:40
13	201203R2_13	2002459-01 GW-1223 0.93891	03-Dec-20	20:02:33
14	201203R2_14	2002459-02 GW-1224 0.94848	03-Dec-20	20:47:27
15	201203R2_15	2002459-03 GW-1215 0.95546	03-Dec-20	21:32:21
16	201203R2_16	2002459-04 GW-1216 0.935	03-Dec-20	22:17:16
17	201203R2_17	(A)		
18	201203R2_18			
19	201203R2_19			
20	201203R2_20	SOLVENT BLANK	04-Dec-20	07:52:29
21	201203R2_21	ST201203R2_7 1613 CS3 20L0301	04-Dec-20	08:38:31

(A) Oven door open, run paused LHM 12/04/2020

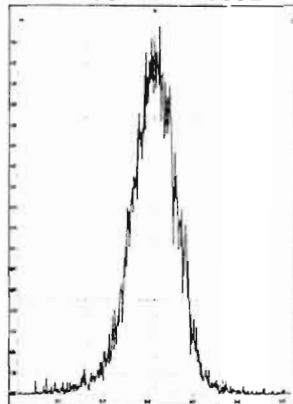
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:30:53 Pacific Standard Time

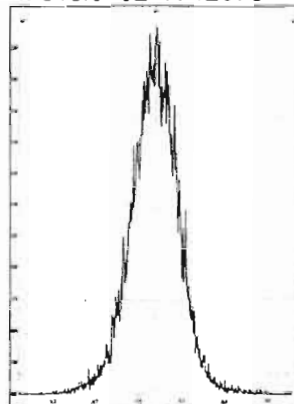
M 292.9824 R 12690



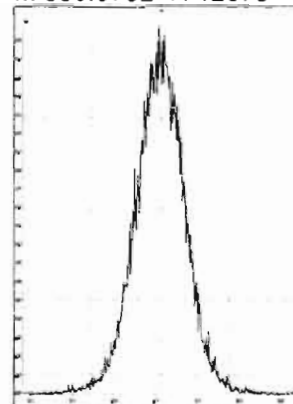
M 304.9824 R 13892



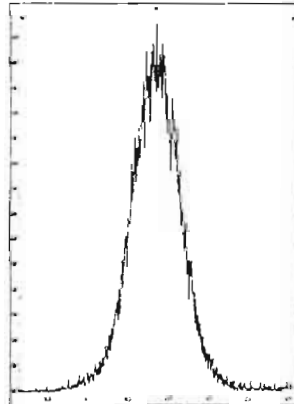
M 318.9792 R 12078



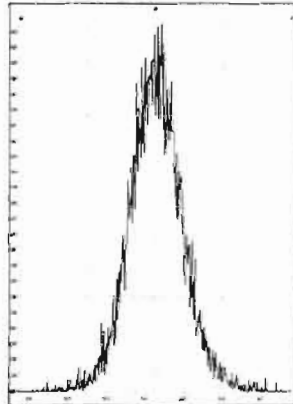
M 330.9792 R 12075



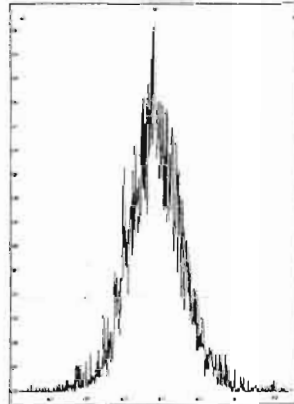
M 342.9792 R 12132



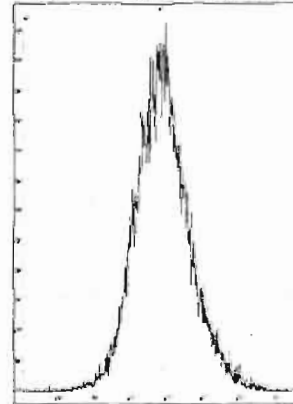
M 354.9792 R 11681



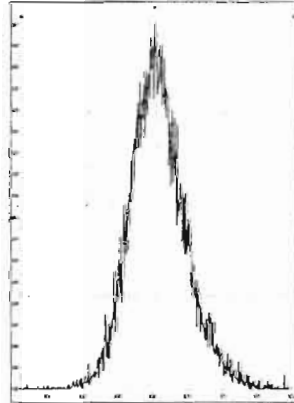
M 366.9792 R 14120



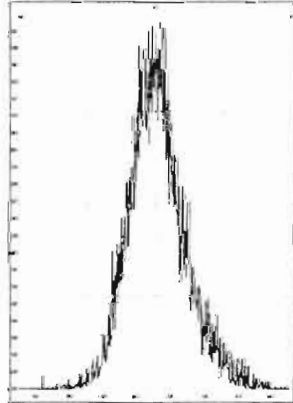
M 380.9760 R 10504



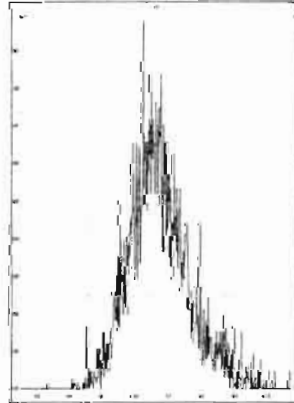
M 392.9760 R 10962



M 404.9760 R 11261



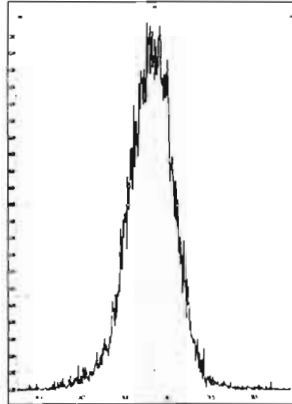
M 416.9760 R 10506



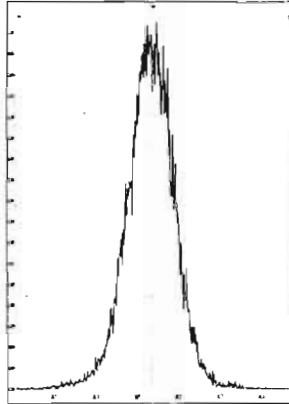
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:32:05 Pacific Standard Time

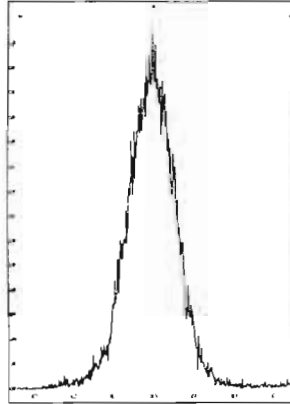
M 318.9792 R 12626



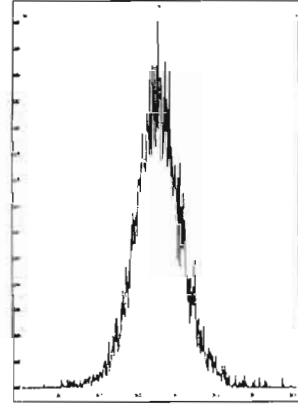
M 330.9792 R 12258



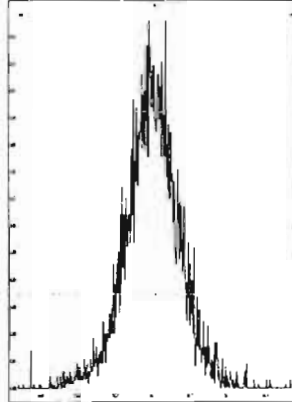
M 342.9792 R 11900



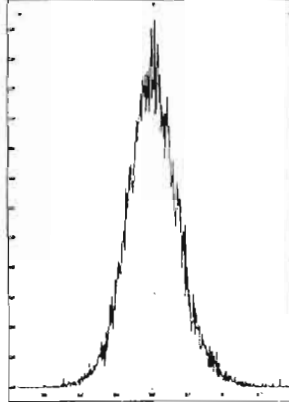
M 354.9792 R 12561



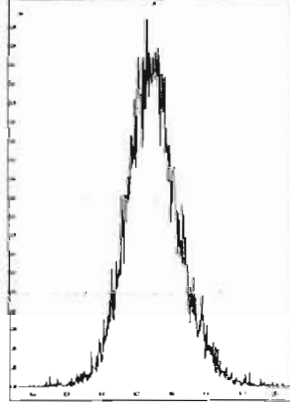
M 366.9792 R 12888



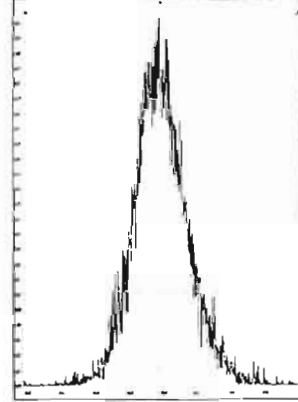
M 380.9760 R 11520



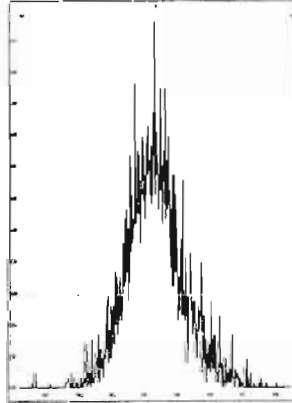
M 392.9760 R 11208



M 404.9760 R 11961



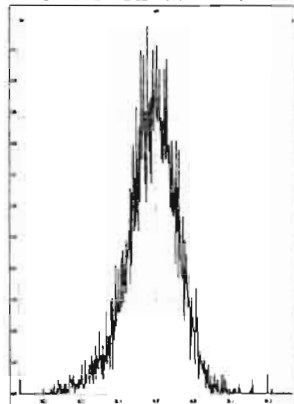
M 416.9760 R 12955



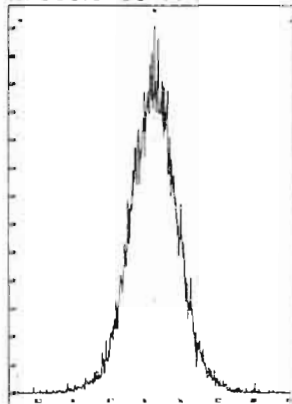
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Printed: Thursday, December 03, 2020 10:33:04 Pacific Standard Time

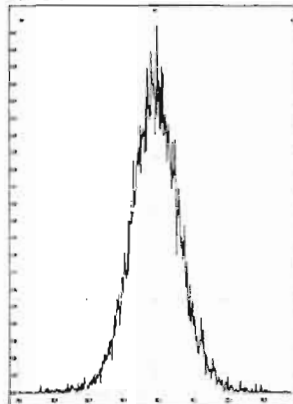
M 366.9792 R 11850



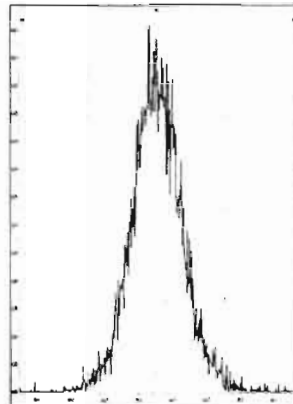
M 380.9760 R 11737



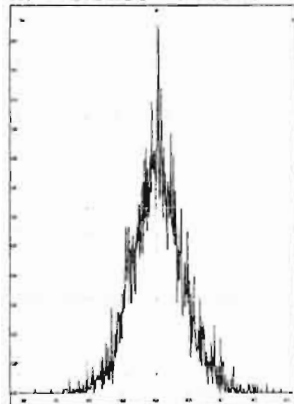
M 392.9760 R 12498



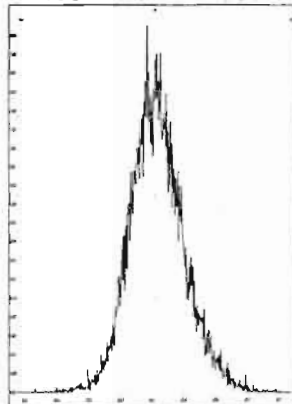
M 404.9760 R 11845



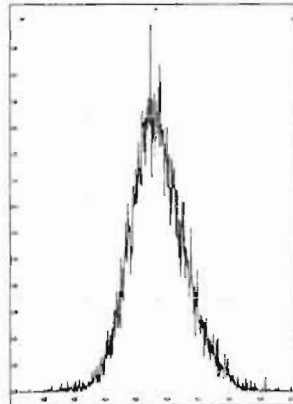
M 416.9760 R 11847



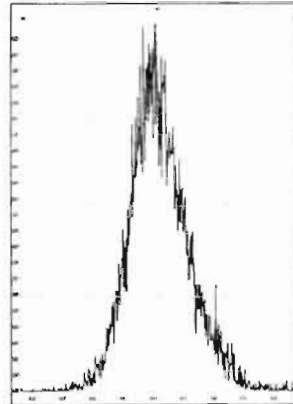
M 430.9728 R 11063



M 442.9728 R 10593



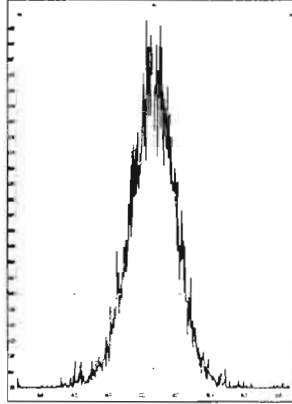
M 454.9728 R 10546



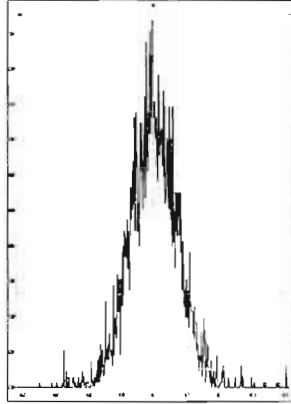
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Printed: Thursday, December 03, 2020 10:33:57 Pacific Standard Time

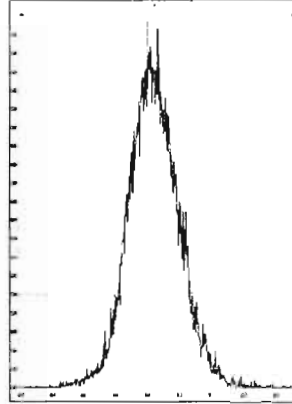
M 404.9760 R 13017



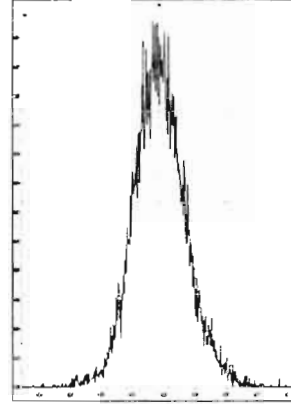
M 416.9760 R 13586



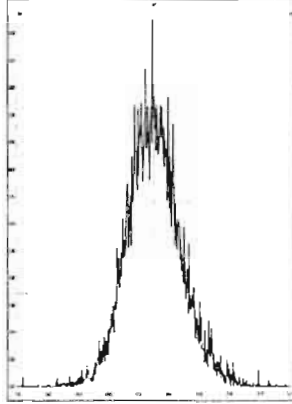
M 430.9728 R 12313



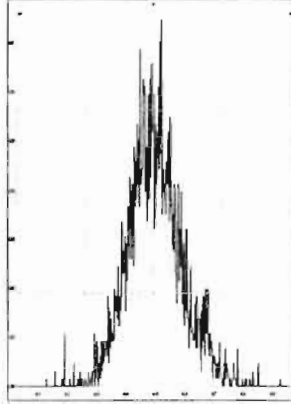
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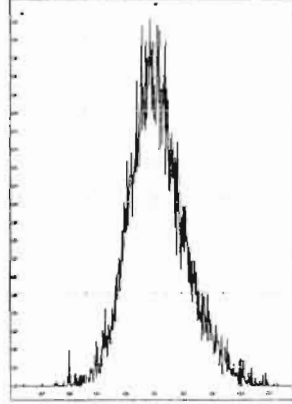
M 454.9728 R 11681



M 466.9728 R 11679



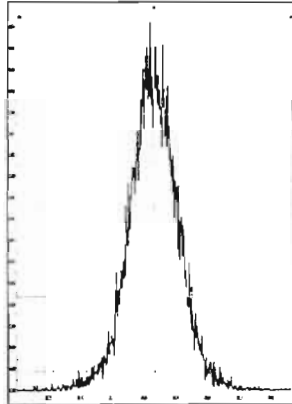
M 480.9696 R 11363



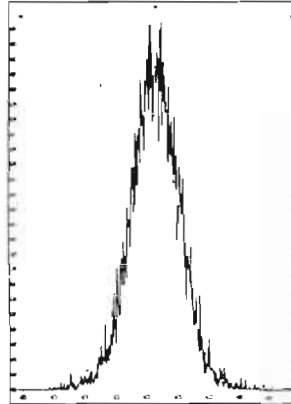
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:34:39 Pacific Standard Time

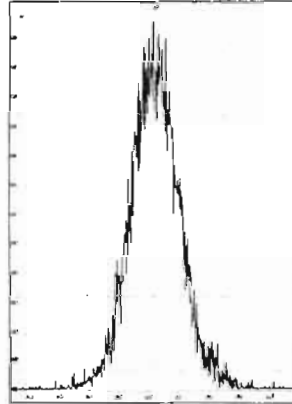
M 430.9728 R 13441



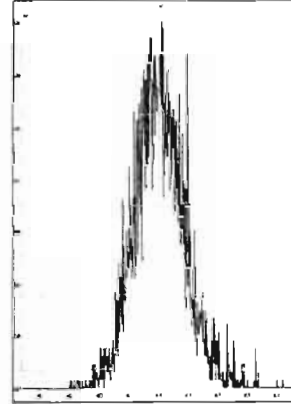
M 442.9728 R 12952



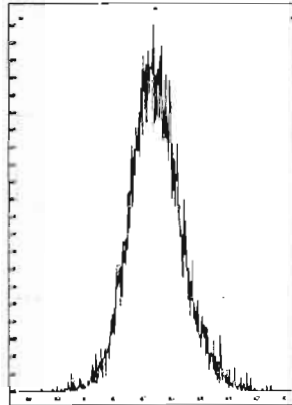
M 454.9728 R 12687



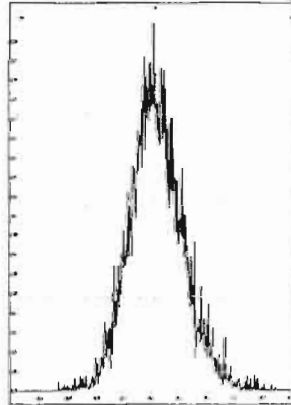
M 466.9728 R 13966



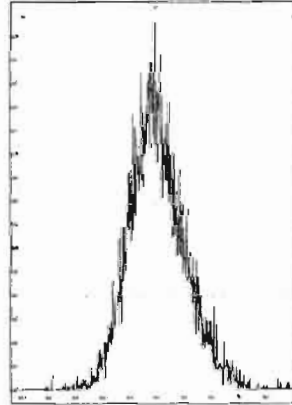
M 480.9696 R 12021



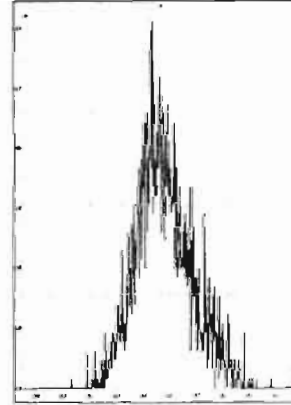
M 492.9696 R 11261



M 504.9696 R 11060



M 516.9697 R 12438



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CPSM.qld

Last Altered: Friday, December 04, 2020 12:03:49 Pacific Standard Time

Printed: Friday, December 04, 2020 12:04:34 Pacific Standard Time

Method: Untitled 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.09
2	2 1,2,8,9-TCDD (Last)	26.90
3	3 1,2,4,7,9-PeCDD (First)	28.47
4	4 1,2,3,8,9-PeCDD (Last)	31.09
5	5 1,2,4,6,7,9-HxCDD (First)	32.42
6	6 1,2,3,7,8,9-HxCDD (Last)	34.43
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.85
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.91
9	9 1,3,6,8-TCDF (First)	19.89
10	10 1,2,8,9-TCDF (Last)	27.21
11	11 1,3,4,6,8-PeCDF (First)	26.78
12	12 1,2,3,8,9-PeCDF (Last)	31.47
13	13 1,2,3,4,6,8-HxCDF (First)	31.90
14	14 1,2,3,7,8,9-HxCDF (Last)	34.92
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.48
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.54

Dataset: Untitled

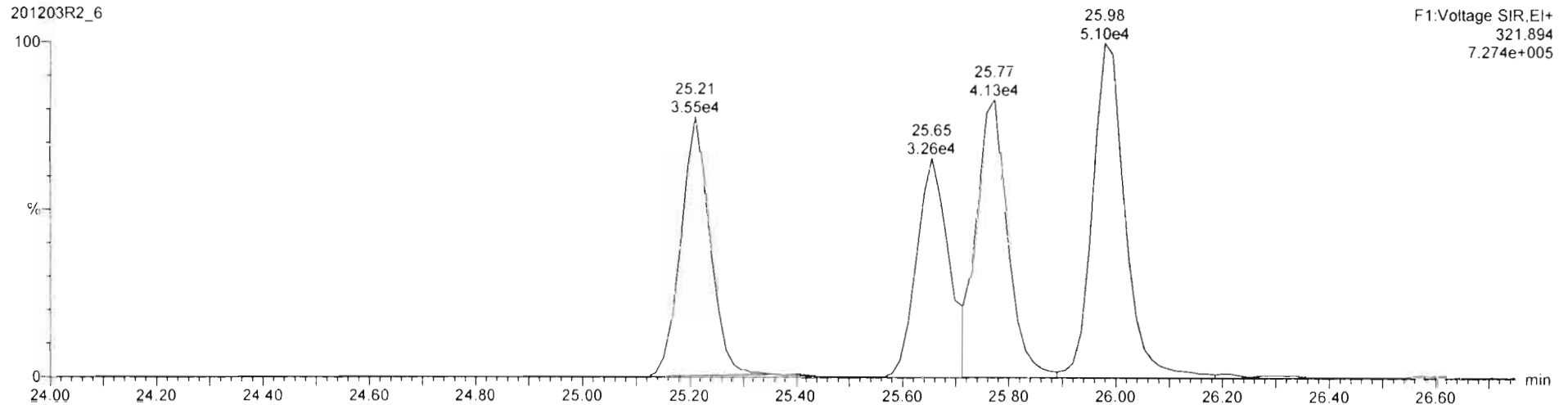
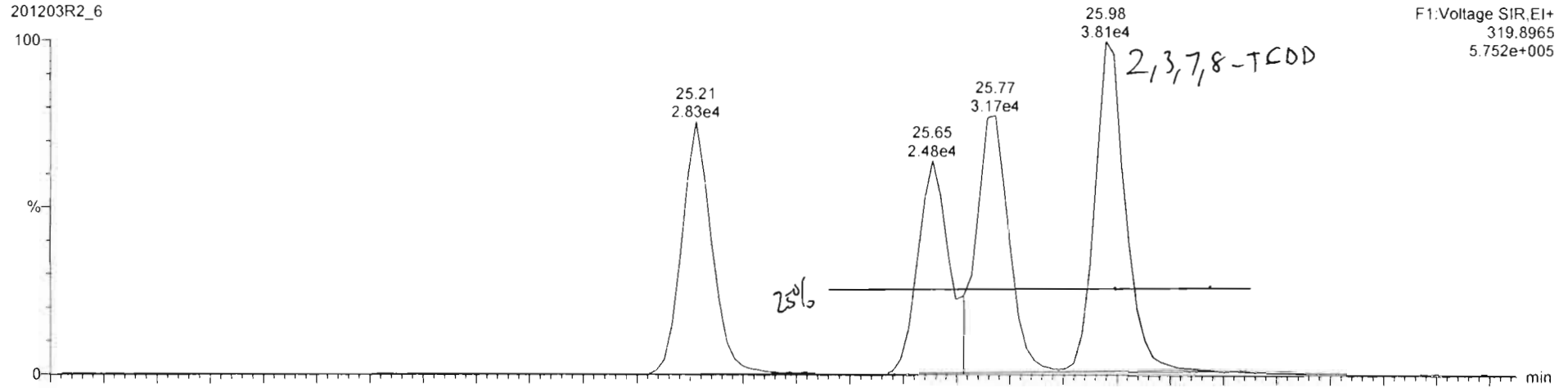
Last Altered: Friday, December 04, 2020 12:14:23 Pacific Standard Time
Printed: Friday, December 04, 2020 12:21:02 Pacific Standard Time

HN 12/04/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)
201203R2_6



Dataset: Untitled

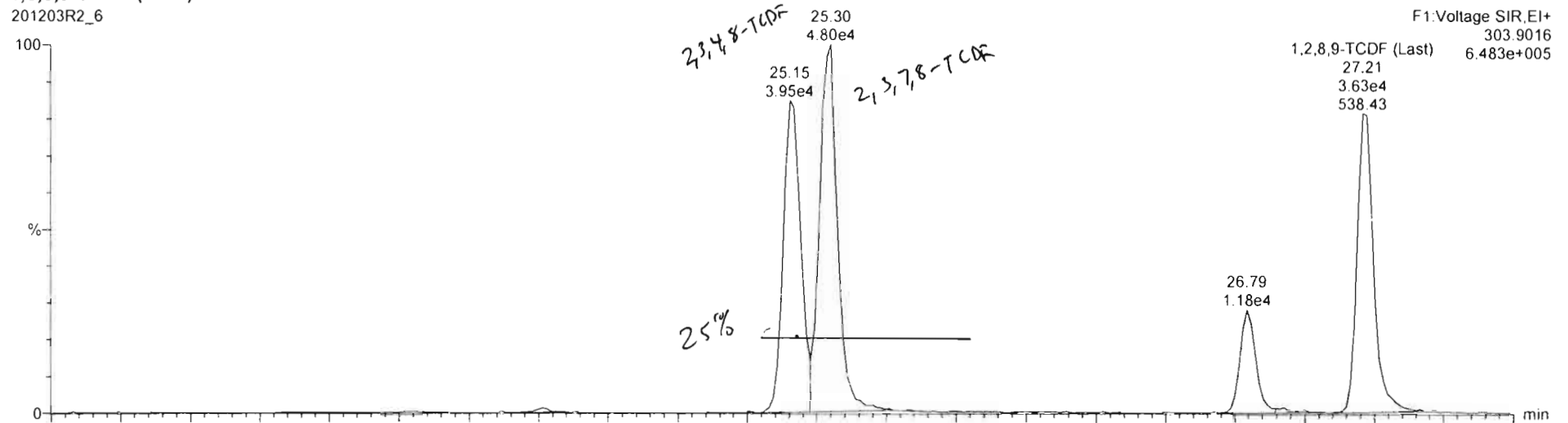
Last Altered: Friday, December 04, 2020 12:14:23 Pacific Standard Time
Printed: Friday, December 04, 2020 12:21:02 Pacific Standard Time

FIN 12/04/2020

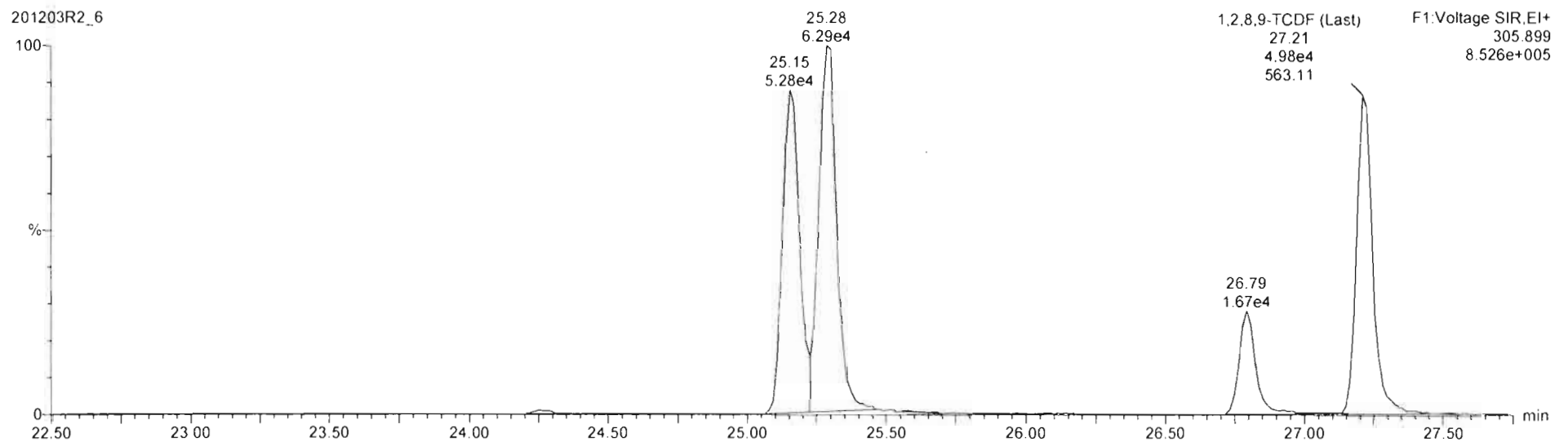
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDF (First)

201203R2_6



201203R2_6



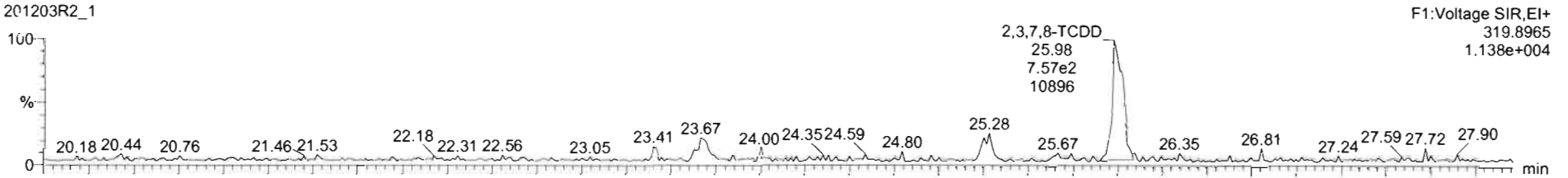
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

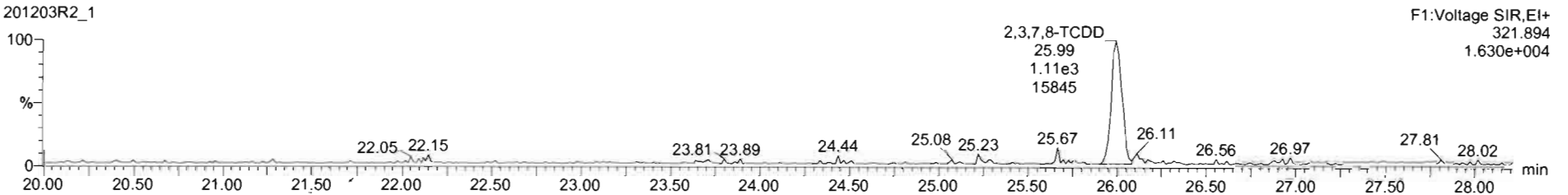
Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 08:58:11

Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

2,3,7,8-TCDD
201203R2_1

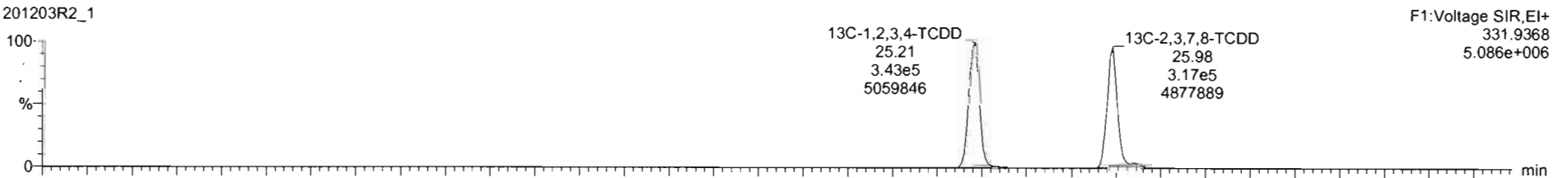


201203R2_1

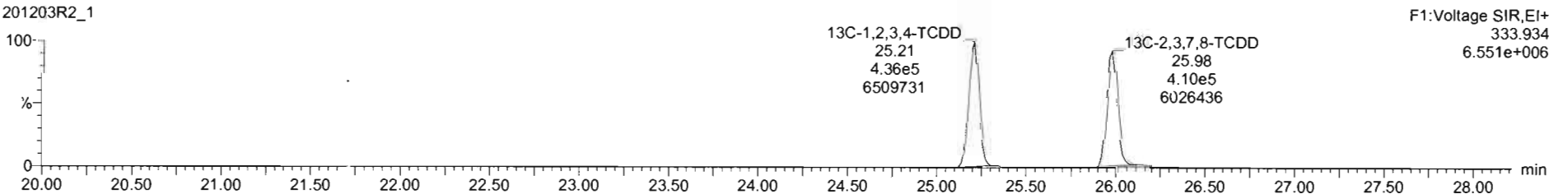


13C-2,3,7,8-TCDD

201203R2_1



201203R2_1

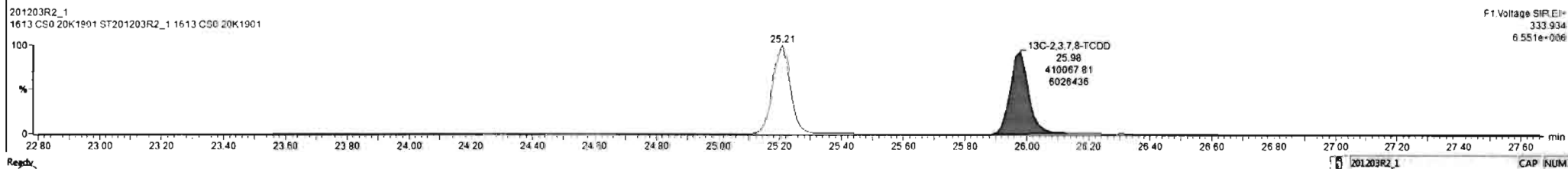
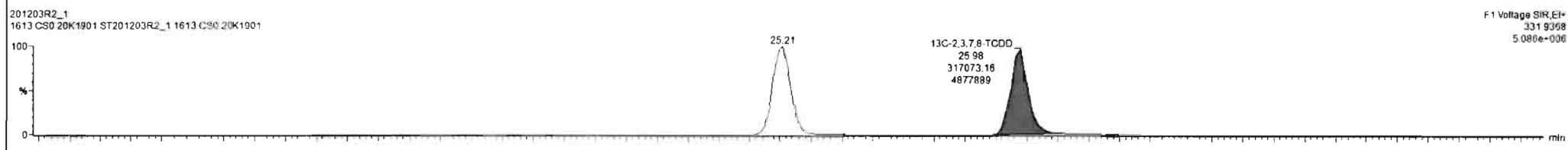
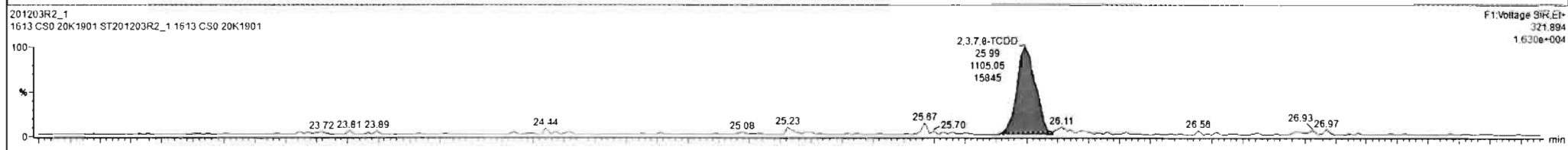
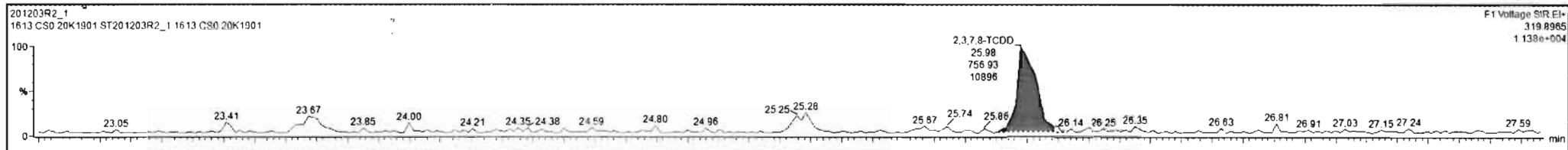


TargetLynx - 201203R2_CRV.qtd - [Chromatogram]

File Edit View Display Processing Window Help

201203R2_1 - ST201203R2_1 1613 CS0 20K1901 1613 CS0 20K1901

#	Name	Resp	RA	aly	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.86e3	8.89	NO	0.98	1.000	25.98	1.000	0.251	104	0.0193	0.261
2	1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3	1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4	1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.96	1.000	34.17	1.000	1.30	104	0.0494	1.30
5	1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6	1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7	OCDD	6.00e3	0.83	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8	2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.95	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	1,2,3,7,8-HxCDF	1.88e3	1.67	NO	1.07	1.000	34.66	1.000	1.37	106	0.0494	1.37

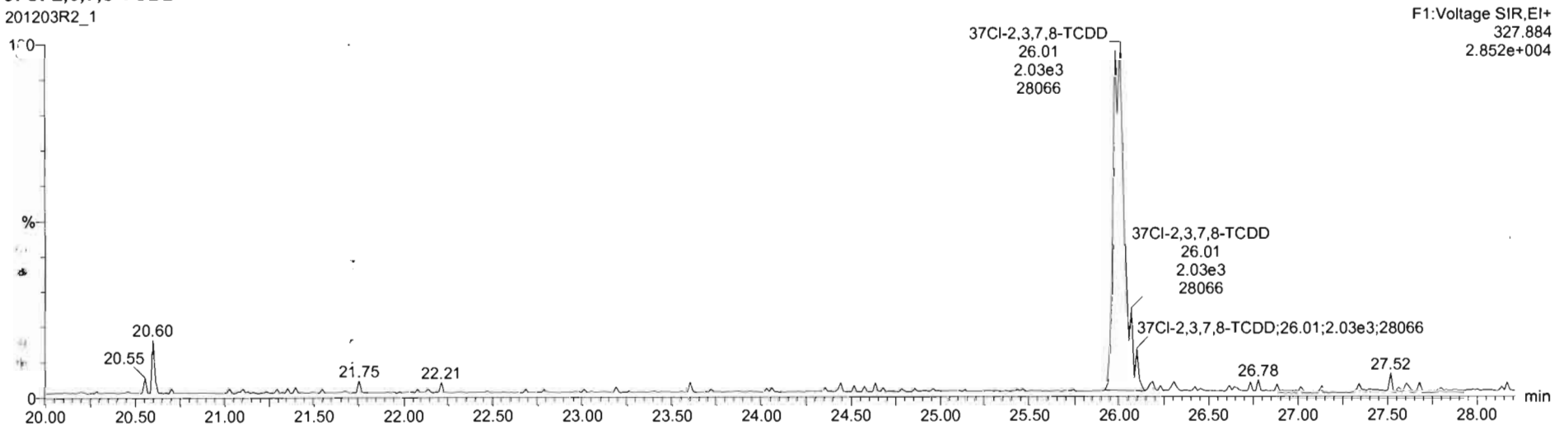


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

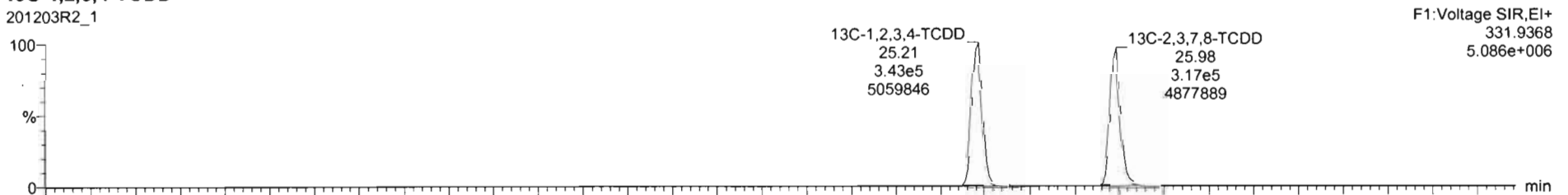
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

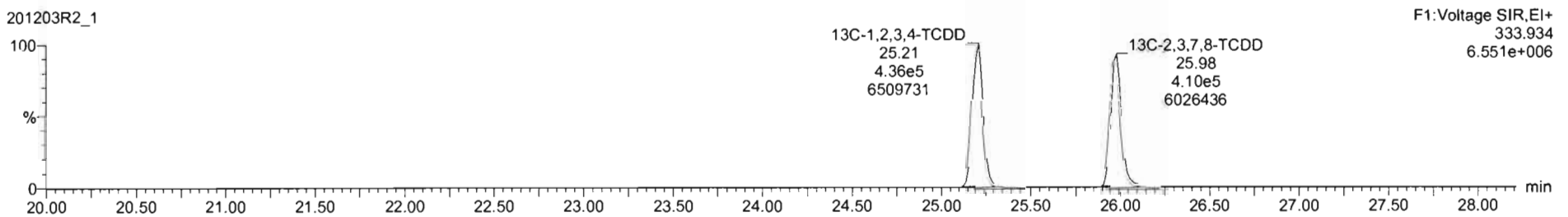
37Cl-2,3,7,8-TCDD
201203R2_1



13C-1,2,3,4-TCDD
201203R2_1



201203R2_1



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

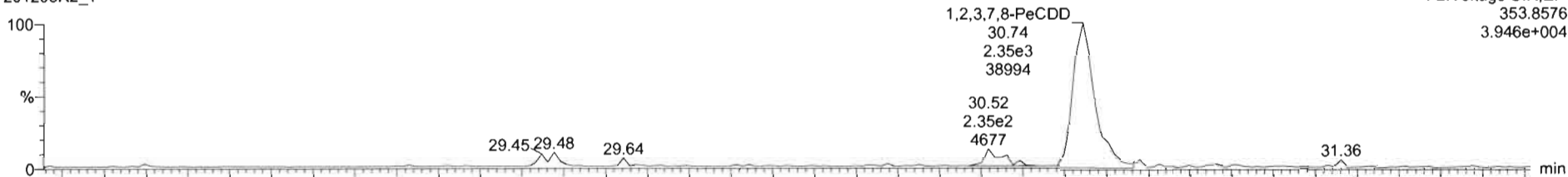
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

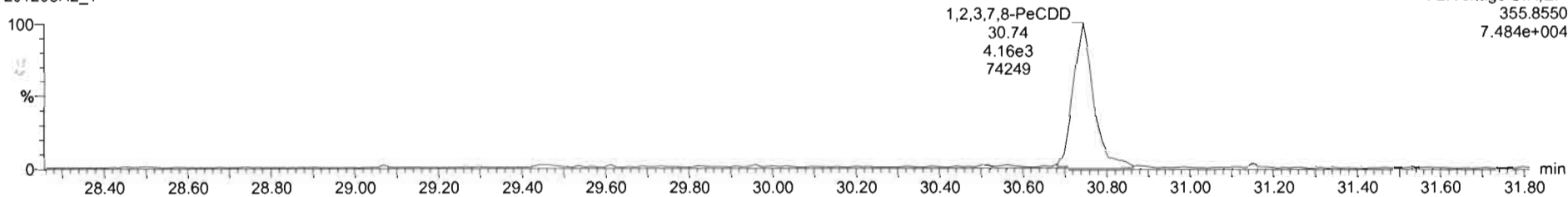
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1,2,3,7,8-PeCDD

201203R2_1

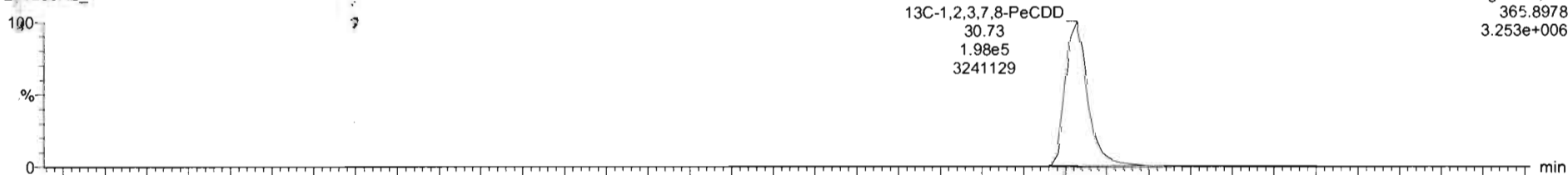


201203R2_1

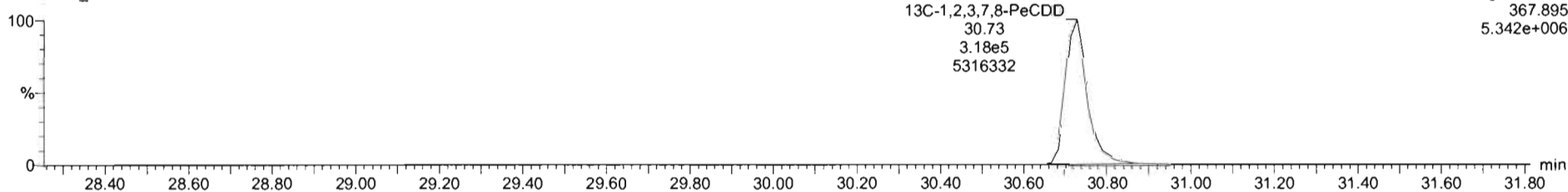


13C-1,2,3,7,8-PeCDD

201203R2_1



201203R2_1

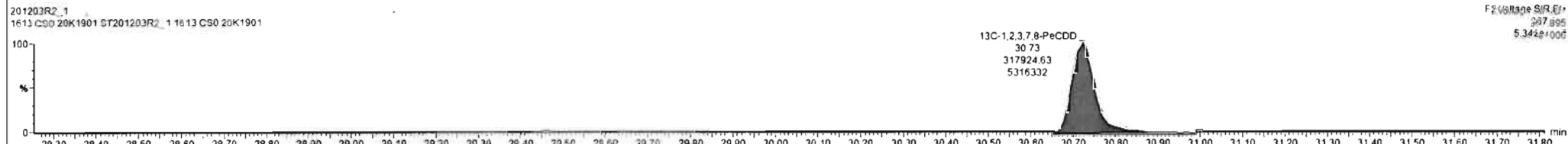
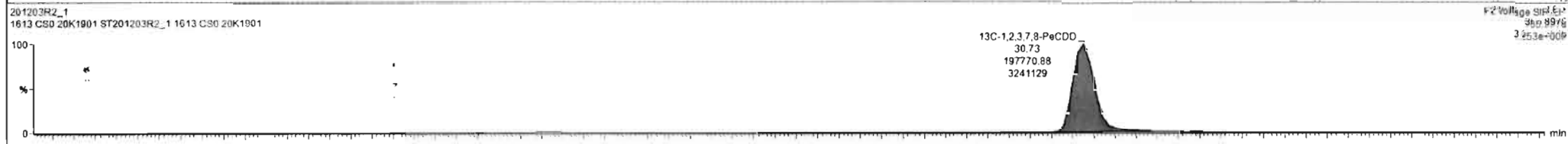


Targetlyn - 201203R2_CIV.gd - Chromatogram

File Edit View Display Processing Window Help

201203R2_1 - ST201203R2_1 1613 CS0 20K1901 1613 CS0 20K1901

#	Name	Resp	RA	sy	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.86e3	0.69	NO	0.96	1.000	25.98	1.000	0.261	104	0.0193	0.261
2	1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3	1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4	1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5	1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6	1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7	OCDD	6.00e3	0.83	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8	2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	1,2,3,7,8-HxCDF	1.00e3	1.27	NO	1.07	1.000	34.68	1.000	1.37	106	0.0384	1.37



201203R2_1 CAP NUM

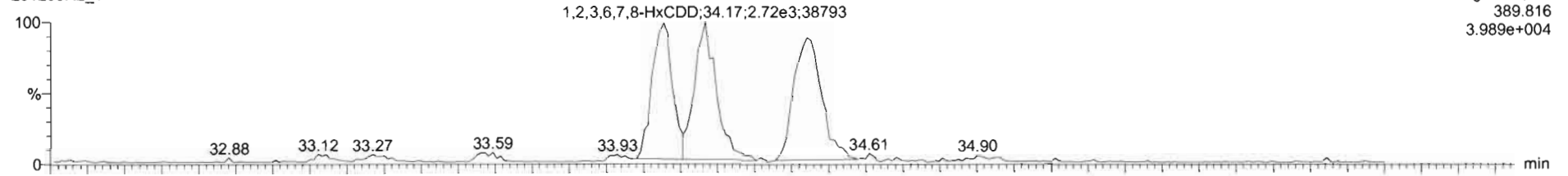
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

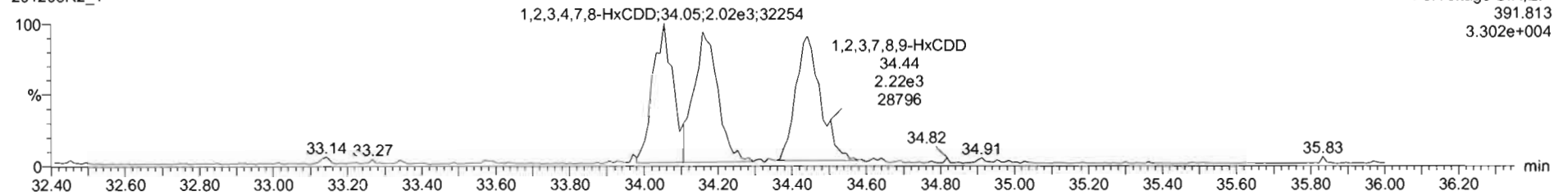
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1,2,3,4,7,8-HxCDD

201203R2_1

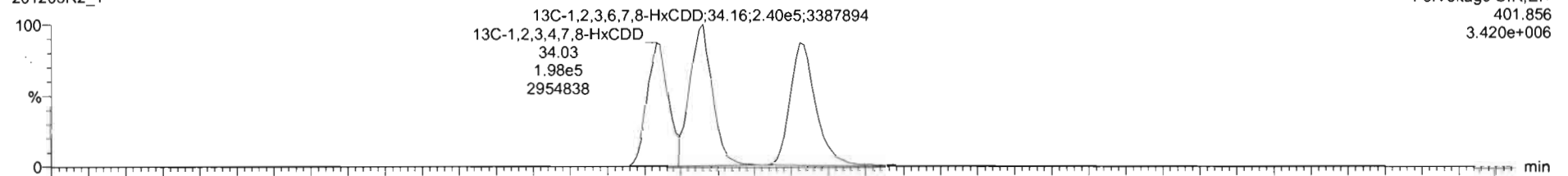


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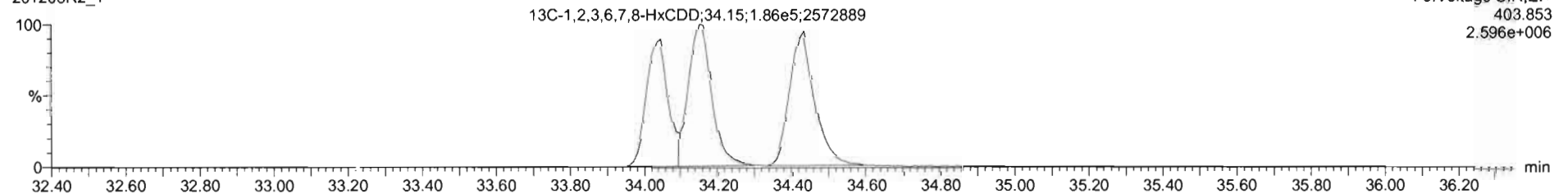


13C-1,2,3,4,7,8-HxCDD

201203R2_1



201203R2_1

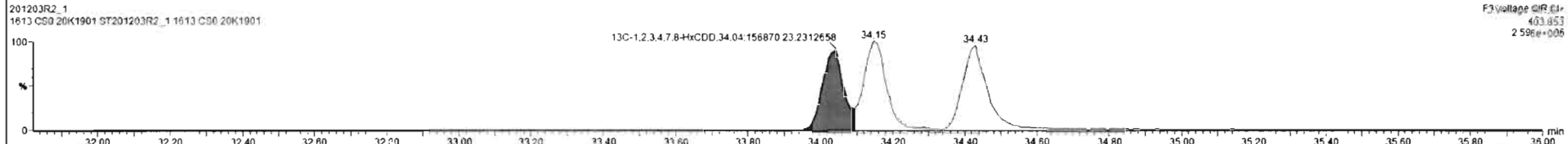
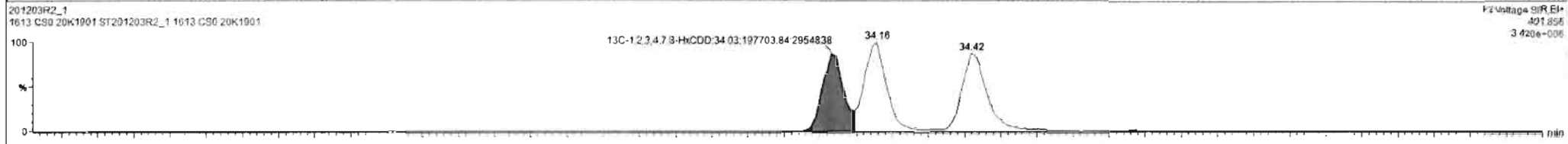
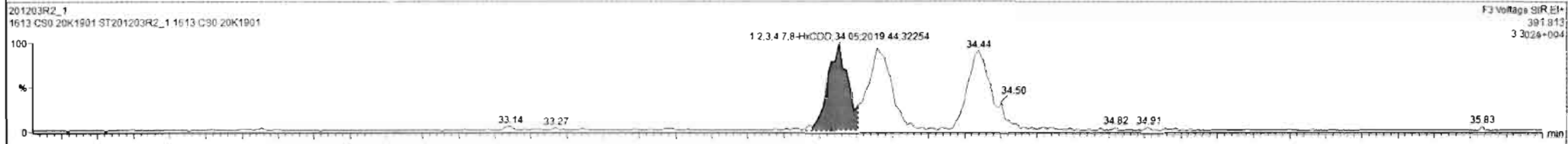
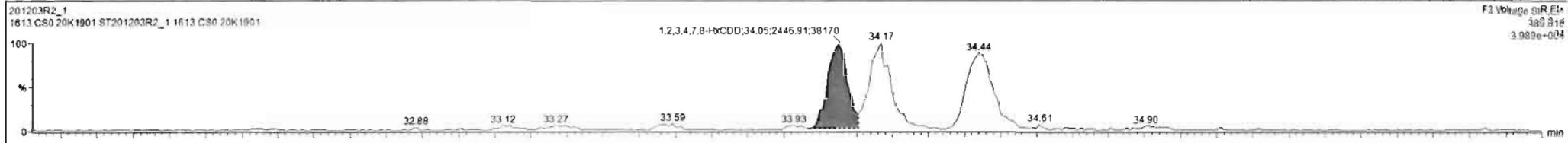


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

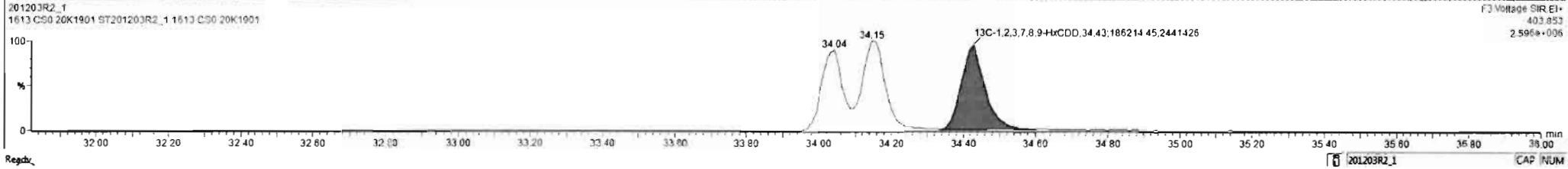
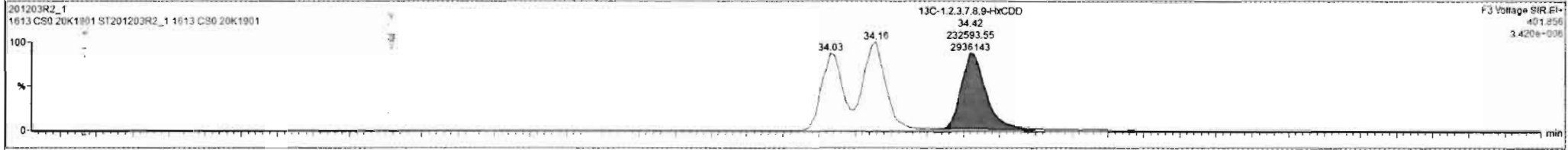
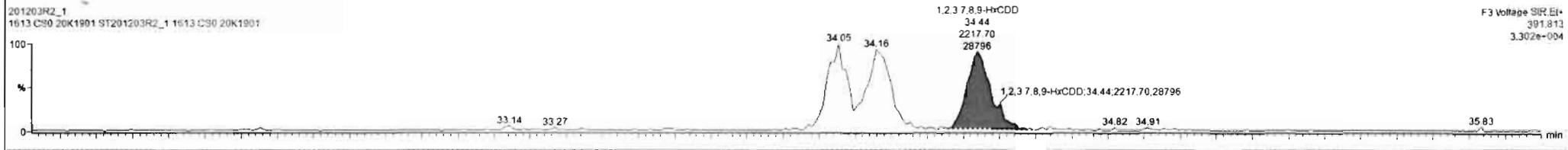
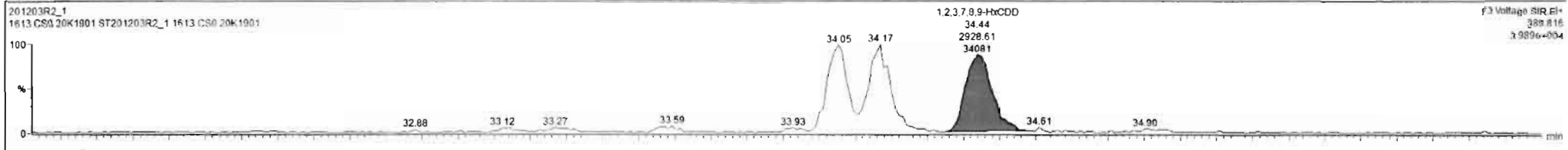
201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	My	RRF	wVvsl	RT	RRT	Conc	%Rec	CL	EMPC
1 2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.88	1.000	0.261	104	0.0193	0.261
2 1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3 1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.72	1.001	1.23	98.8	0.0497	1.24
4 1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5 1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6 1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7 OCDD	6.00e3	0.83	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8 2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9 1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28



Regdy 201203R2_1 CAP NUM

#	Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.53	1.000	0.261	104	0.0193	0.261
2	1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3	1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4	1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5	1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6	1,2,3,4,6,7,8-HxCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7	DiCDD	6.00e3	0.63	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8	2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28



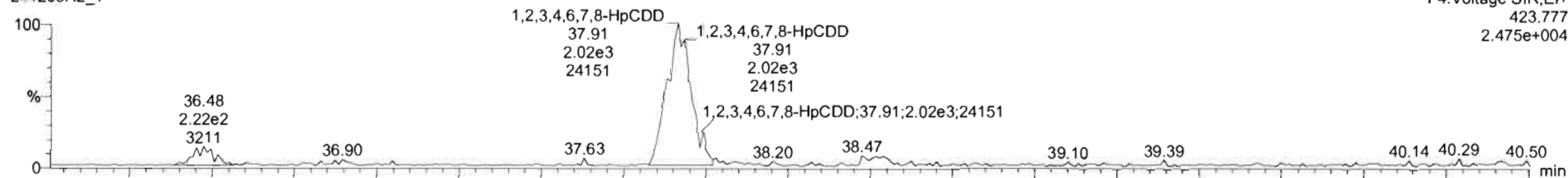
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

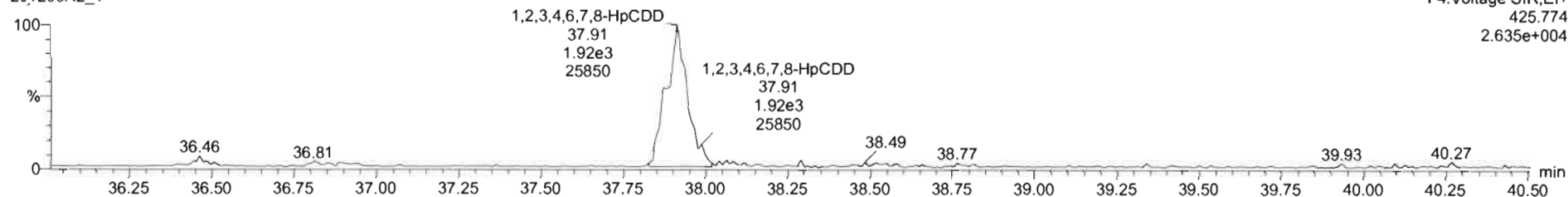
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1,2,3,4,6,7,8-HpCDD

201203R2_1

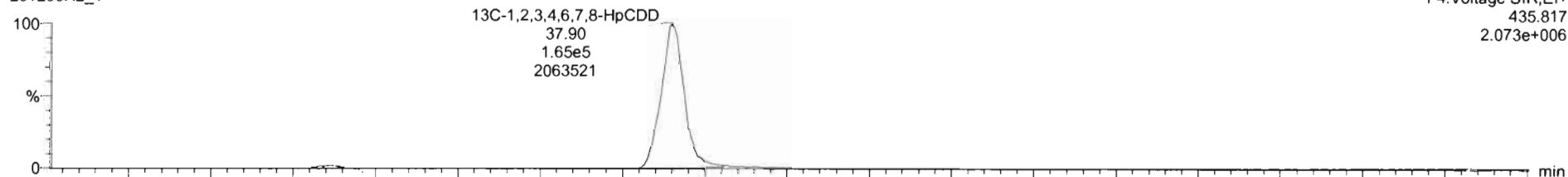


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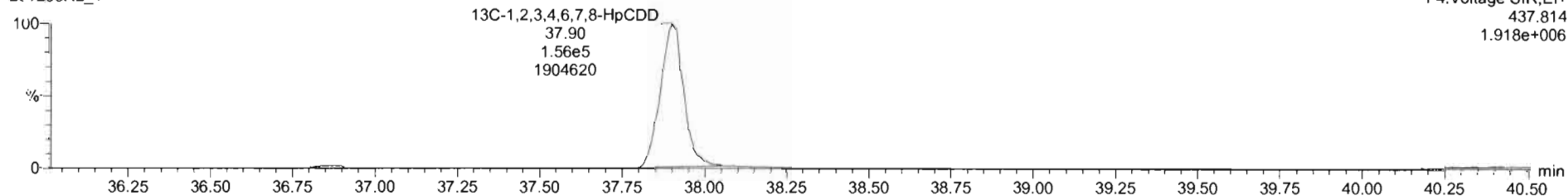


13C-1,2,3,4,6,7,8-HpCDD

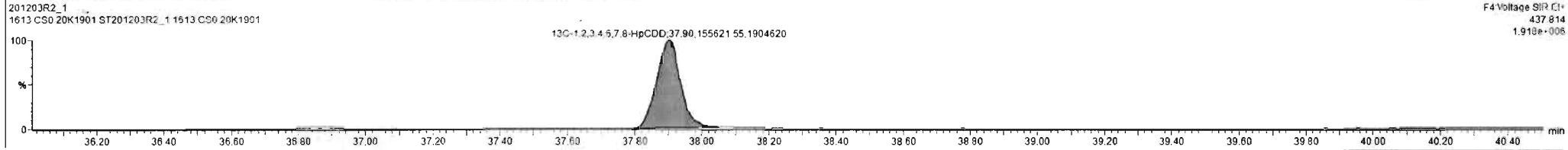
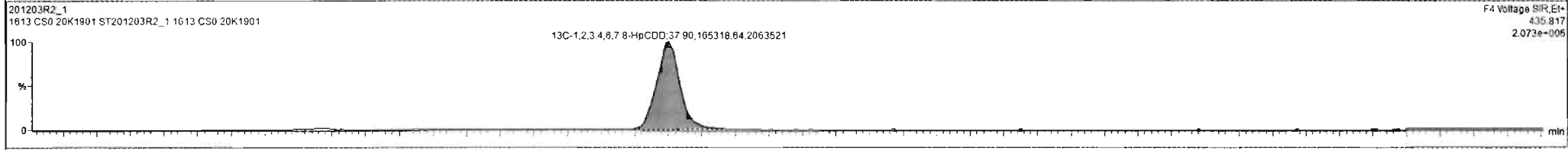
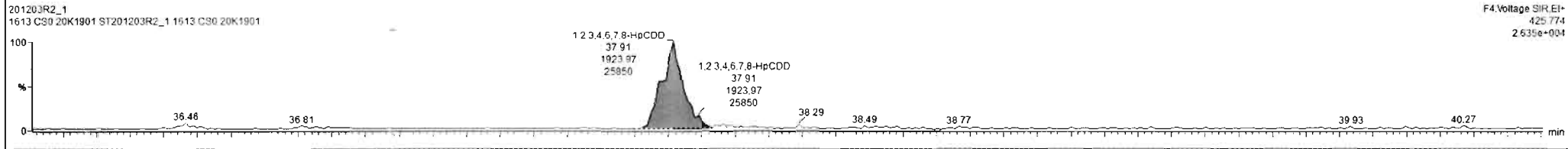
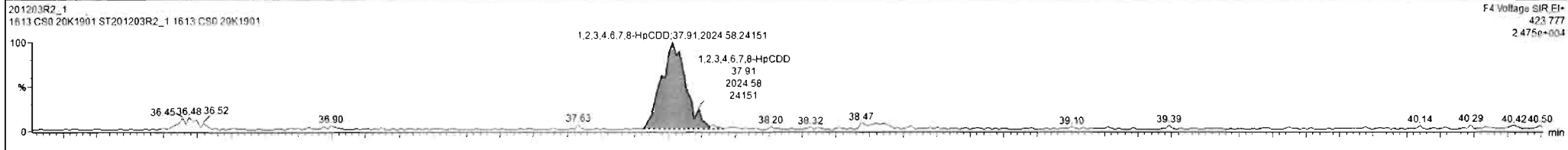
201203R2_1



201203R2_1



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.98	1.000	0.261	104	0.0193	0.261
2 1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3 1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4 1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5 1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.40	1.001	1.29	103	0.0532	1.29
6 1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7 OCDD	6.00e3	0.83	NO	0.87	1.000	40.01	1.000	2.50	99.9	0.0550	2.50
8 2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9 1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28

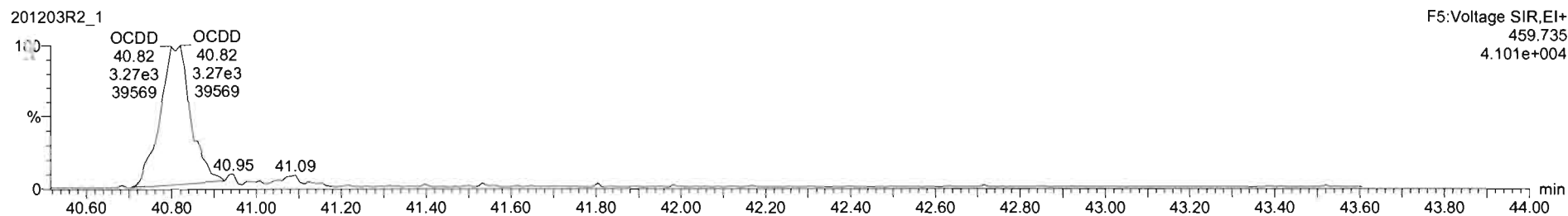
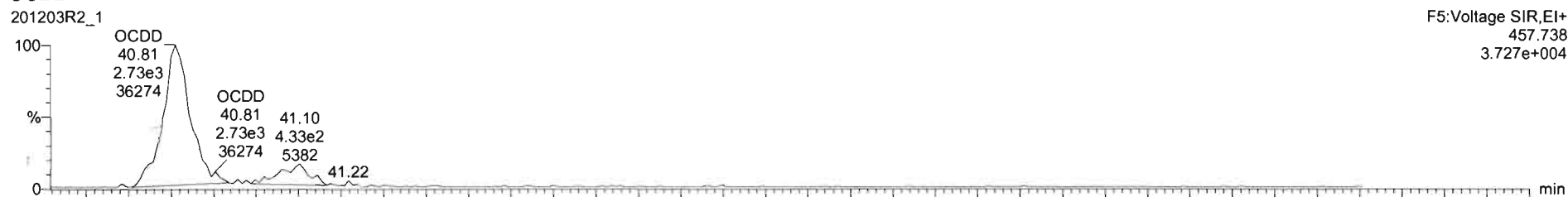


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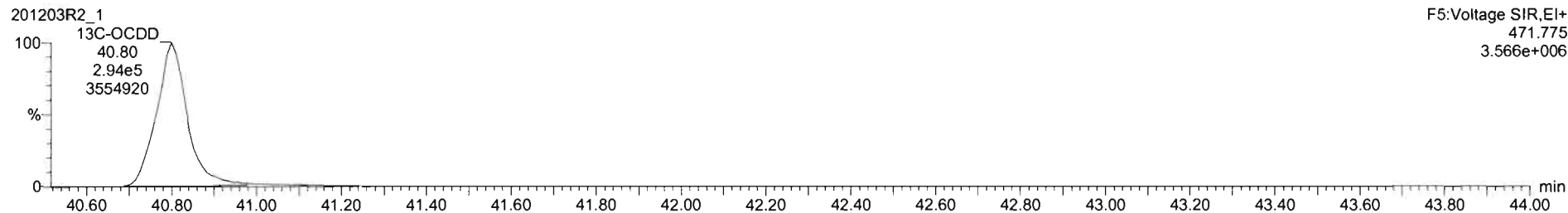
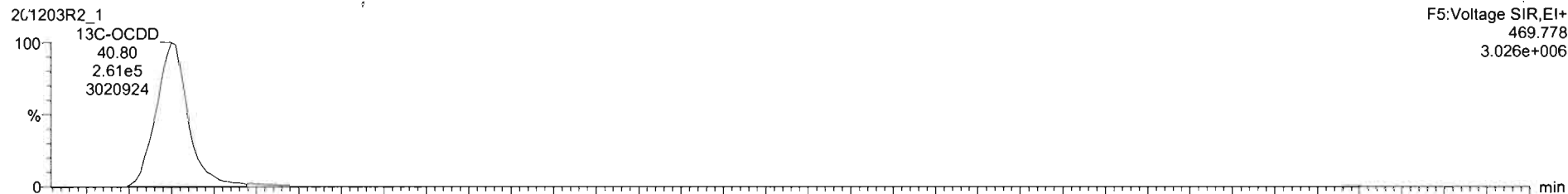
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

OCDD

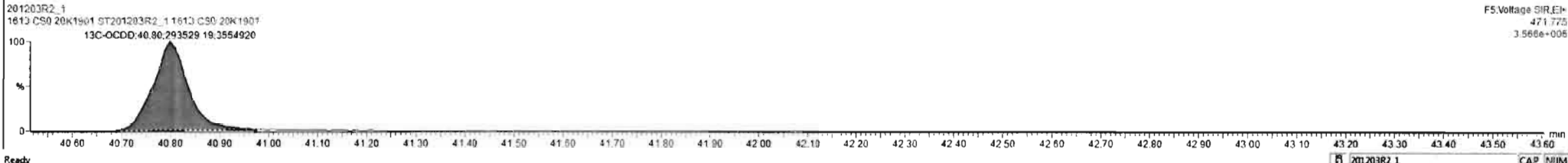


1. C-OCDD



201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	rvy	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.98	1.000	0.261	104	0.0193	0.261
2 1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	108	0.0457	1.35
3 1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4 1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.1	1.000	1.20	104	0.0494	1.20
5 1,2,3,7,8-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.4	1.001	1.29	103	0.0632	1.29
6 1,2,3,4,6,7,8-HpCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.24
7 OCDD	6.00e3	0.83	NO	0.87	1.000	40.81	1.000	2.50	99.9	0.0550	2.50
8 2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9 1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.95	1.000	29.48	1.000	1.28	103	0.0334	1.28



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
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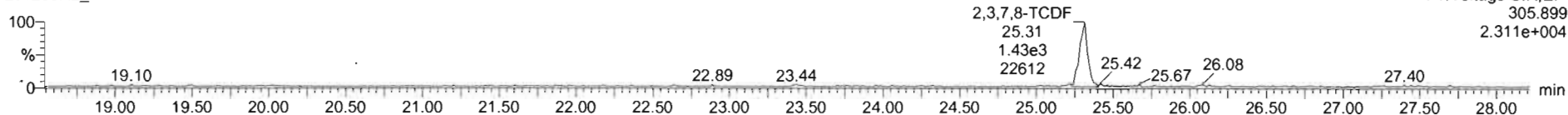
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2,3,7,8-TCDF

201203R2_1

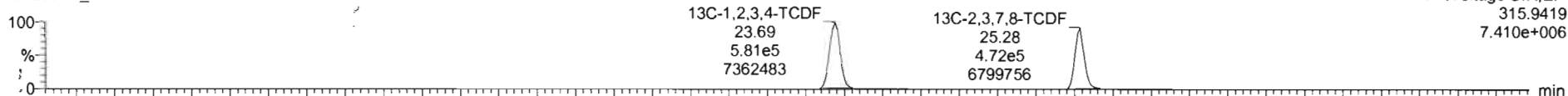


201203R2_1

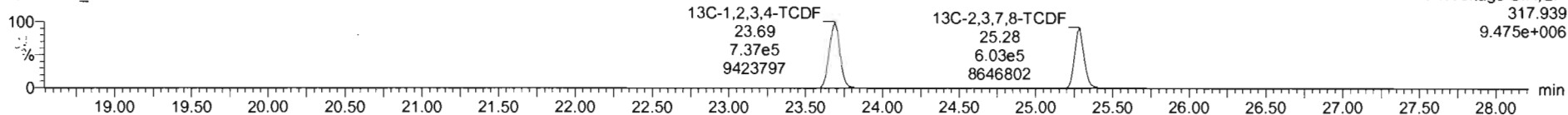


13C-2,3,7,8-TCDF

201203R2_1

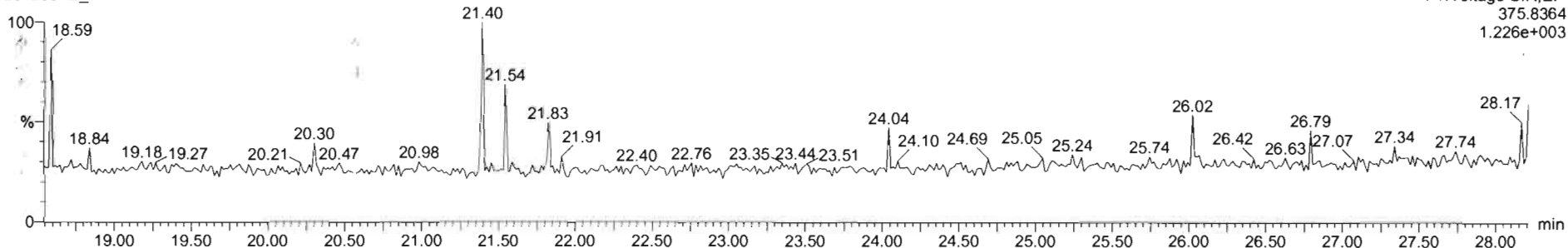


201203R2_1



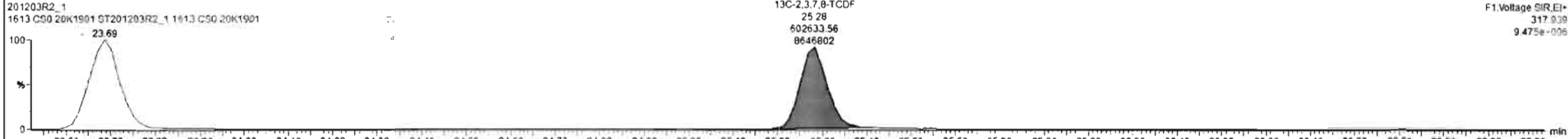
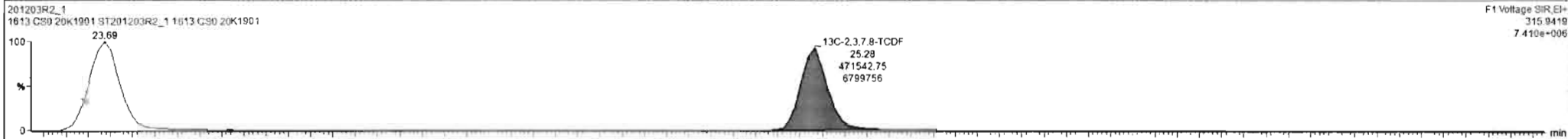
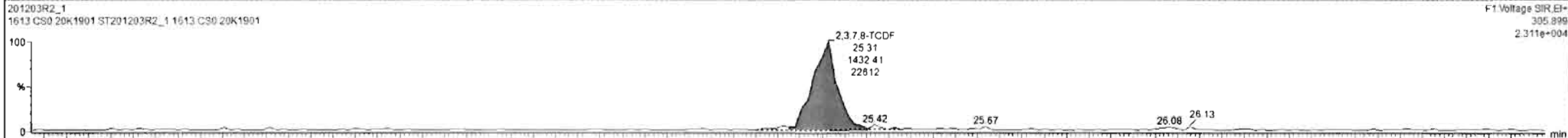
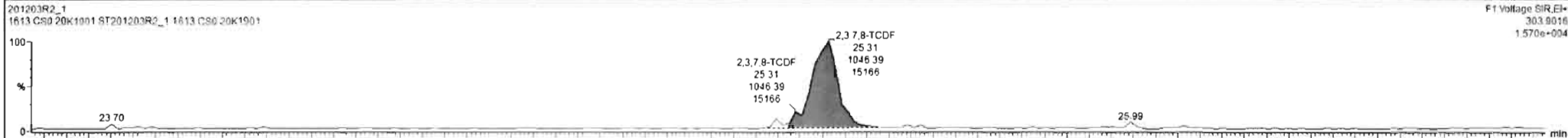
DPE1

201203R2_1



201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

#	Name	Resp	RA	dy	RRF	wt/dwt	RT	RRT	Conc	%Rec	DL	EM/PC
1	2,3,7,8-TCDD	1.86e3	0.69	NO	0.98	1.000	25.90	1.000	0.261	104	0.0193	0.261
2	1,2,3,7,8-PeCDD	6.50e3	0.56	NO	0.93	1.000	30.74	1.000	1.35	105	0.0457	1.35
3	1,2,3,4,7,8-HxCDD	4.47e3	1.21	NO	1.02	1.000	34.05	1.001	1.23	98.8	0.0497	1.24
4	1,2,3,6,7,8-HxCDD	5.01e3	1.19	NO	0.90	1.000	34.17	1.000	1.30	104	0.0494	1.30
5	1,2,3,7,8,9-HxCDD	5.15e3	1.32	NO	0.96	1.000	34.44	1.001	1.29	103	0.0532	1.29
6	1,2,3,4,6,8-HxCDD	3.95e3	1.05	NO	0.92	1.000	37.91	1.000	1.34	107	0.0798	1.34
7	OCDD	6.00e3	0.83	NO	0.87	1.000	40.87	1.000	2.50	99.9	0.0550	2.50
8	2,3,7,8-TCDF	2.48e3	0.73	NO	0.85	1.000	25.31	1.001	0.272	109	0.0114	0.272
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.26	103	0.0334	1.28



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

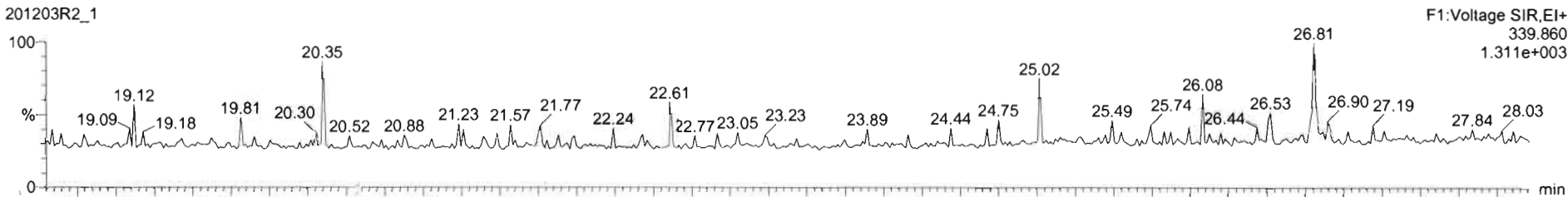
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

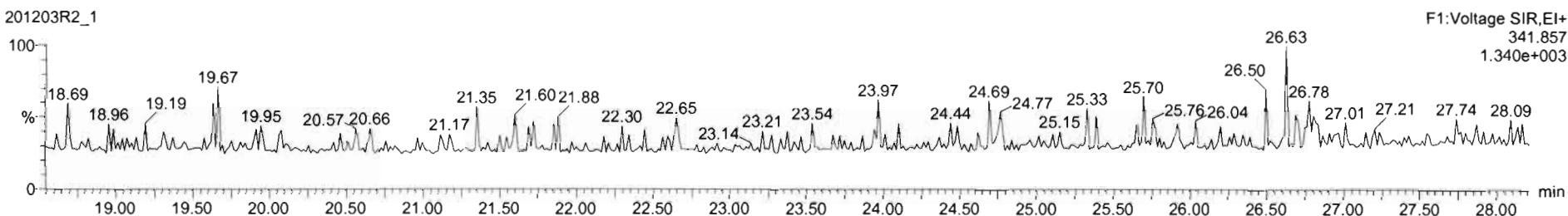
Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

1st Func. Penta-Furans

201203R2_1

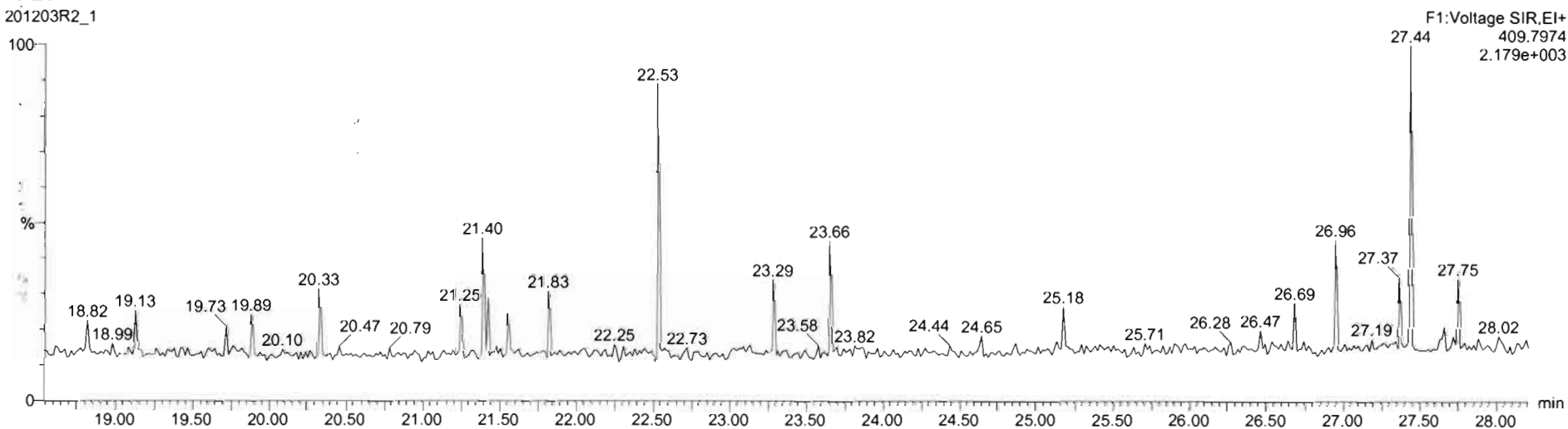


201203R2_1



DPE6

201203R2_1



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

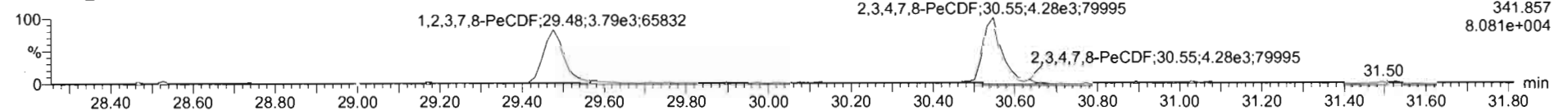
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1,2,3,7,8-PeCDF

201203R2_1

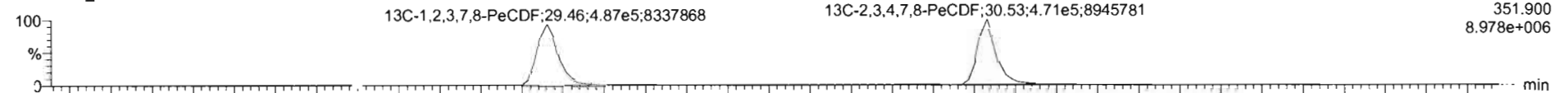


201203R2_1

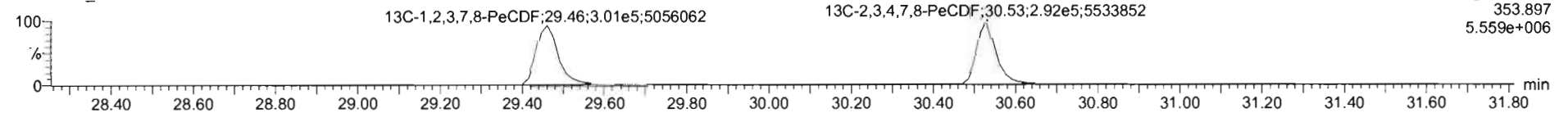


13C-1,2,3,7,8-PeCDF

201203R2_1

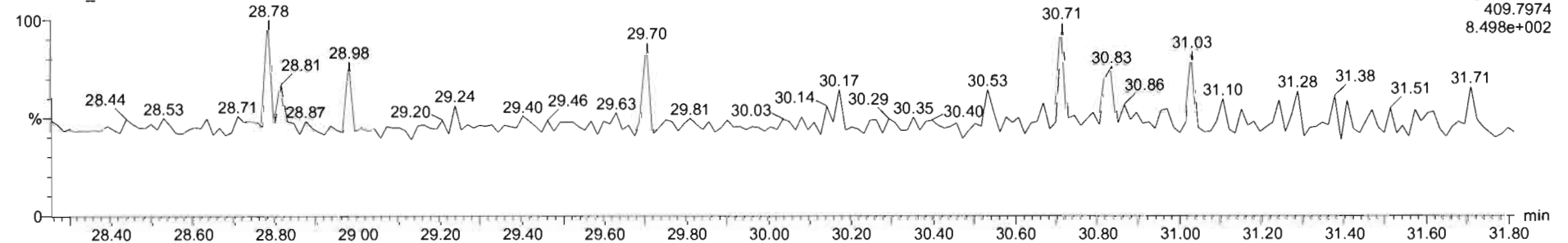


201203R2_1



DPE2

201203R2_1

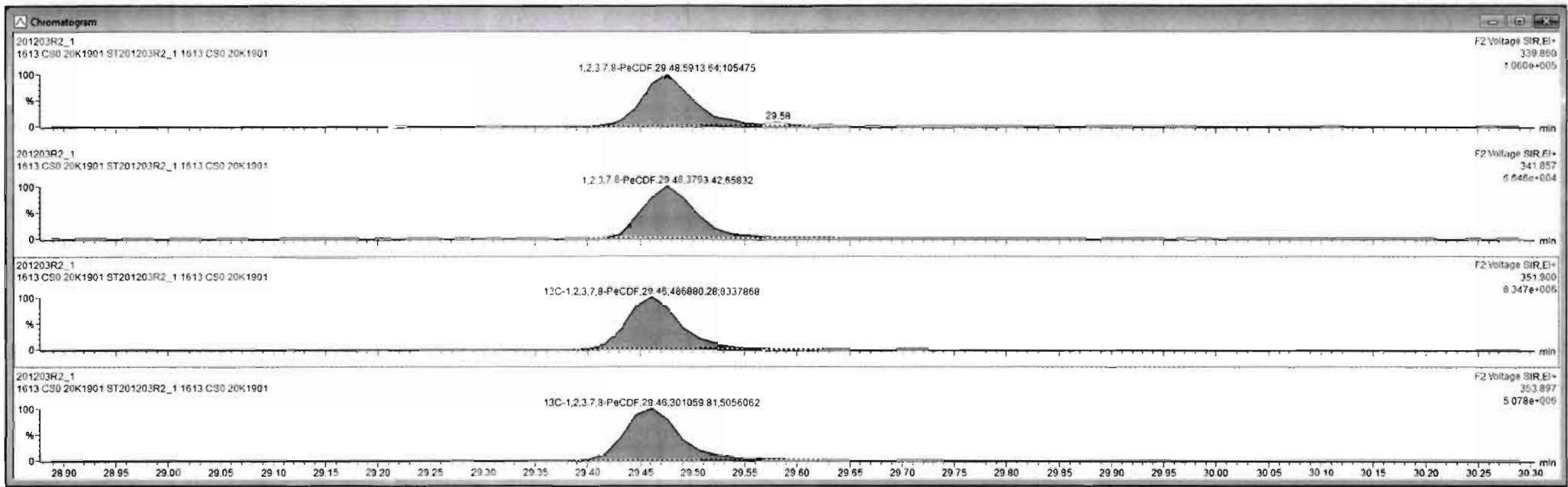


TargetLynx - 201203R2_CRV.qld

File Edit View Display Processing Window Help

201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	xy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
9 1,2,3,7,8-PeCDF	9.71e3	1.58	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10 2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.000	1.32	106	0.0280	1.33
11 1,2,3,4,7,8-HxCDF	8.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0645	1.22
12 1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0598	1.29
13 2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.95	1.001	1.31	105	0.0726	1.31
14 1,2,3,7,8,9-HxCDF	5.61e3	1.28	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15 1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.49	1.000	1.28	102	0.0420	1.28
16 1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	38.55	1.000	1.28	102	0.0519	1.28
17 OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.61	105	0.0981	2.62
18 13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.95	1.031	88.4	58.4	0.118	
19 13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20 13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21 13C-1,2,3,6,7,8-HxCDD	4.26e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22 13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	



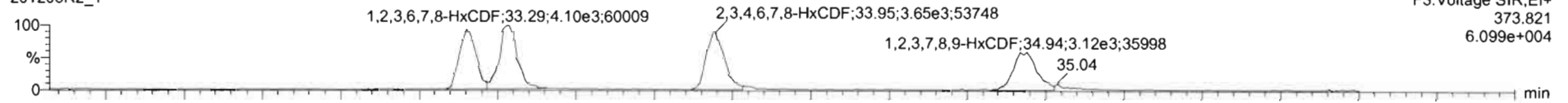
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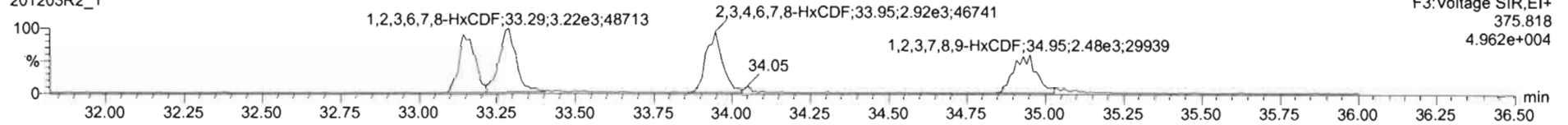
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1,2,3,4,7,8-HxCDF

201203R2_1

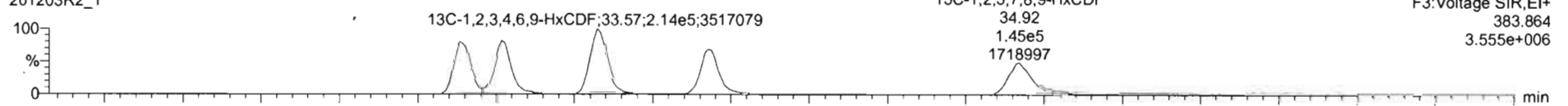


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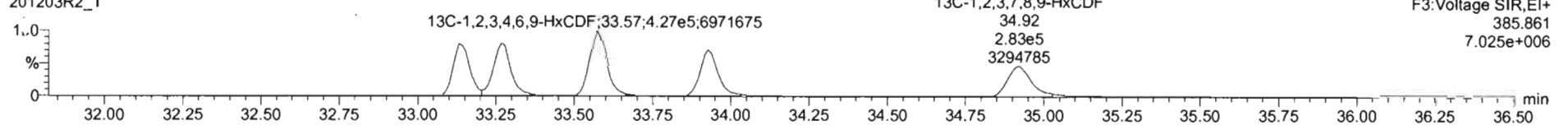


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201203R2_1

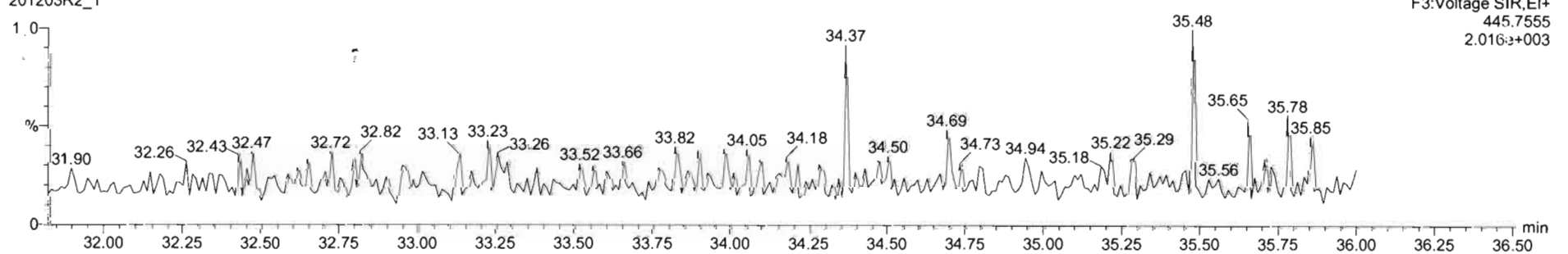


201203R2_1



DPE3

201203R2_1

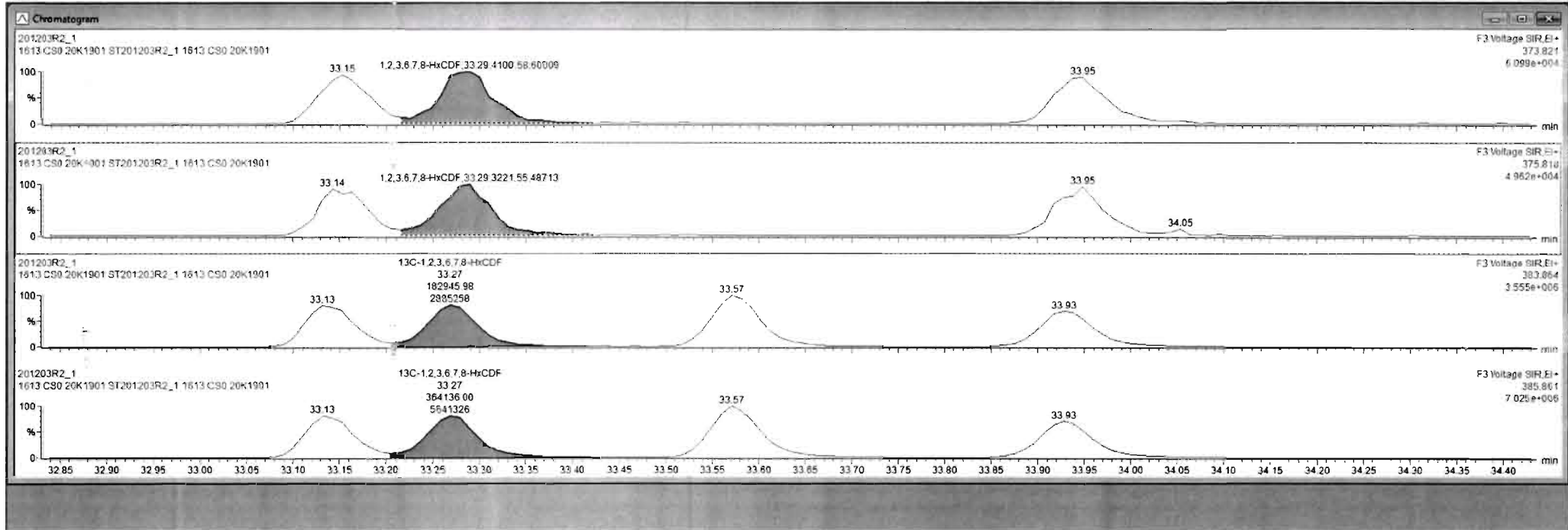


TargetLynx - 201203R2_CRV.qtd

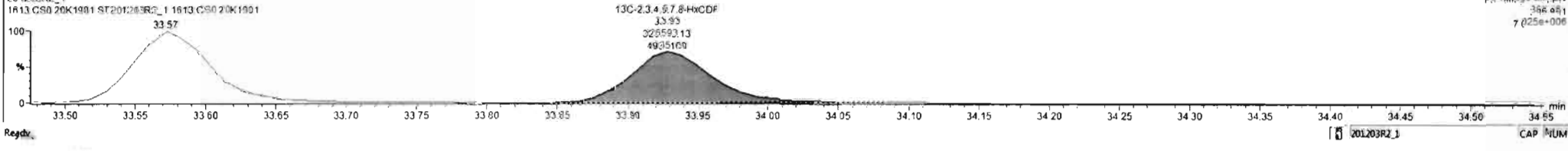
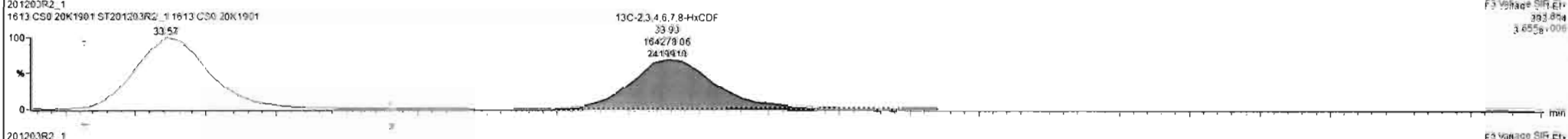
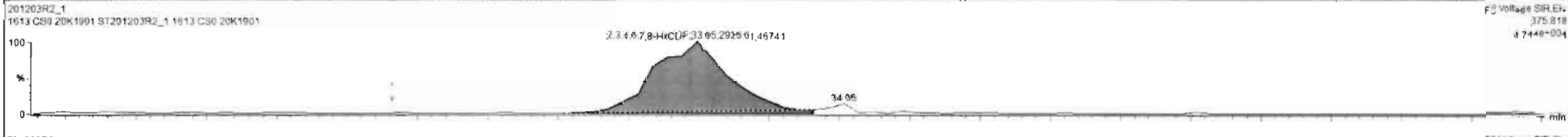
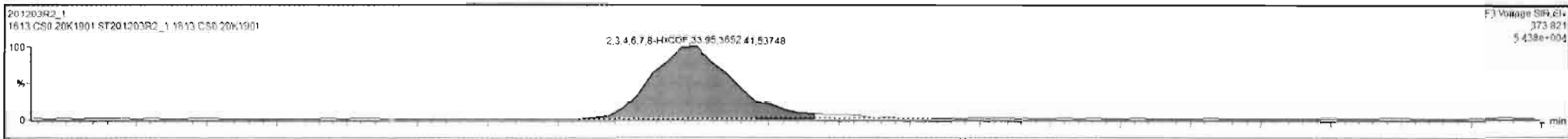
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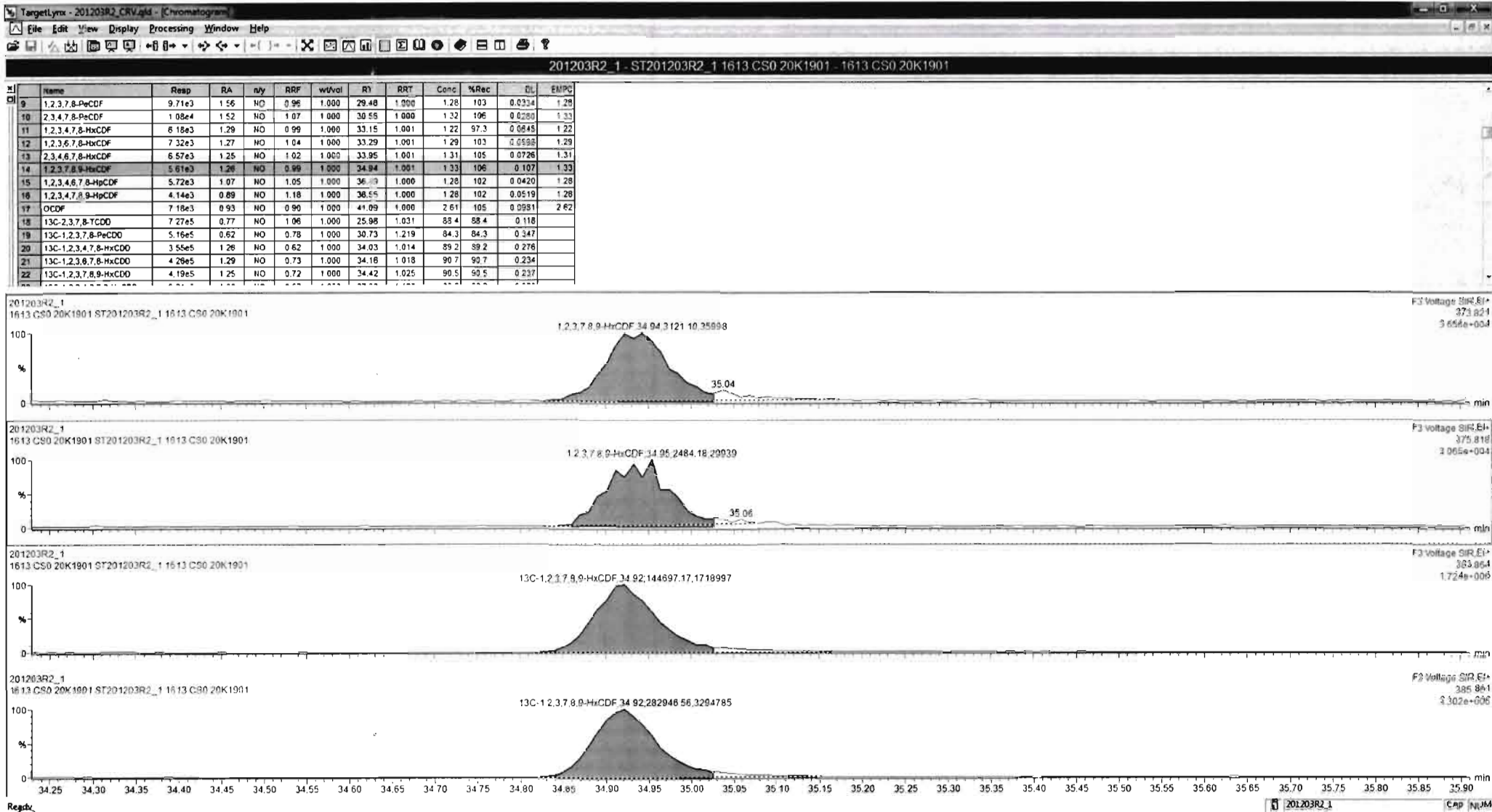
201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

SI	Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0234	1.28
10	2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.000	1.32	106	0.0280	1.33
11	1,2,3,4,7,8-HxCDF	6.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0845	1.22
12	1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0598	1.29
13	2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.95	1.001	1.31	105	0.0726	1.31
14	1,2,3,7,8,9-HxCDF	5.81e3	1.26	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15	1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.43	1.000	1.28	102	0.0420	1.28
16	1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	38.55	1.000	1.28	102	0.0519	1.28
17	OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.61	105	0.0981	2.62
18	13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.96	1.031	88.4	88.4	0.118	
19	13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20	13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21	13C-1,2,3,6,7,8-HxCDD	4.28e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22	13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	



#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	Dt	EMPC
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.000	1.32	106	0.0280	1.33
11	1,2,3,4,7,8-HxCDF	6.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0845	1.22
12	1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0598	1.29
13	2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.05	1.001	1.31	105	0.0726	1.31
14	1,2,3,7,8,9-HxCDF	5.81e3	1.26	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15	1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.49	1.000	1.28	102	0.0420	1.28
16	1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	38.55	1.000	1.28	102	0.0519	1.28
17	OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.61	105	0.0981	2.62
18	13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.98	1.031	86.4	83.4	0.118	
19	13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20	13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21	13C-1,2,3,6,7,8-HxCDD	4.26e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22	13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	



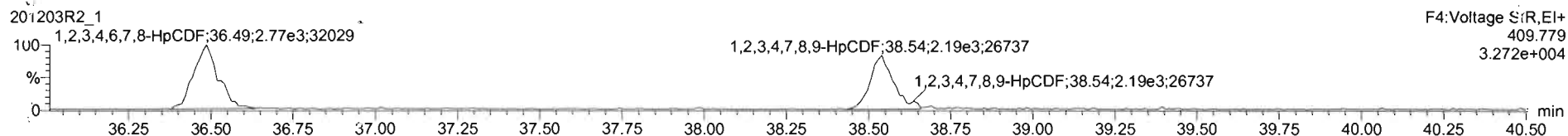
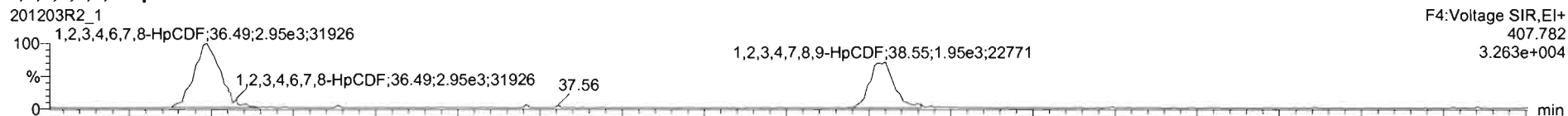


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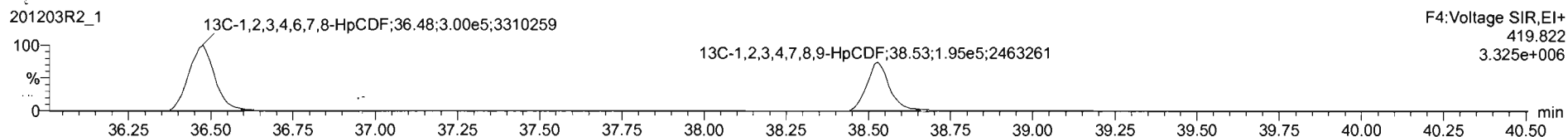
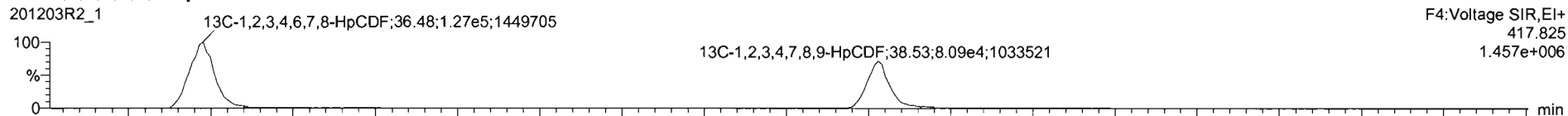
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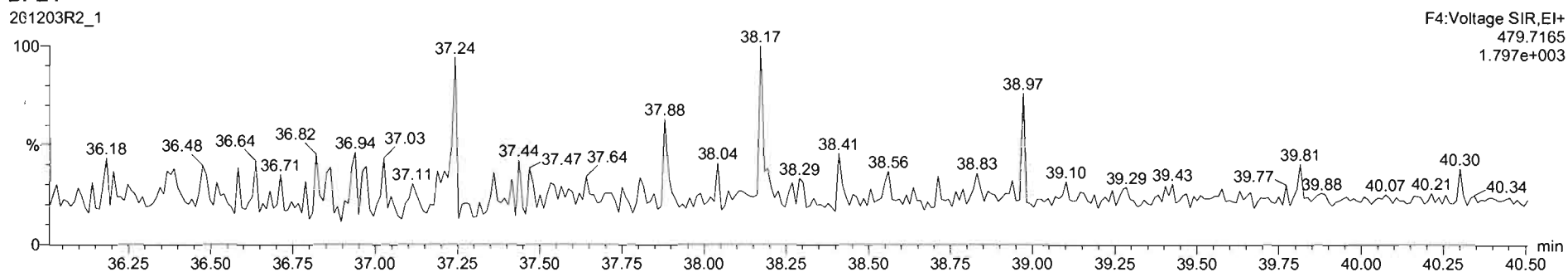
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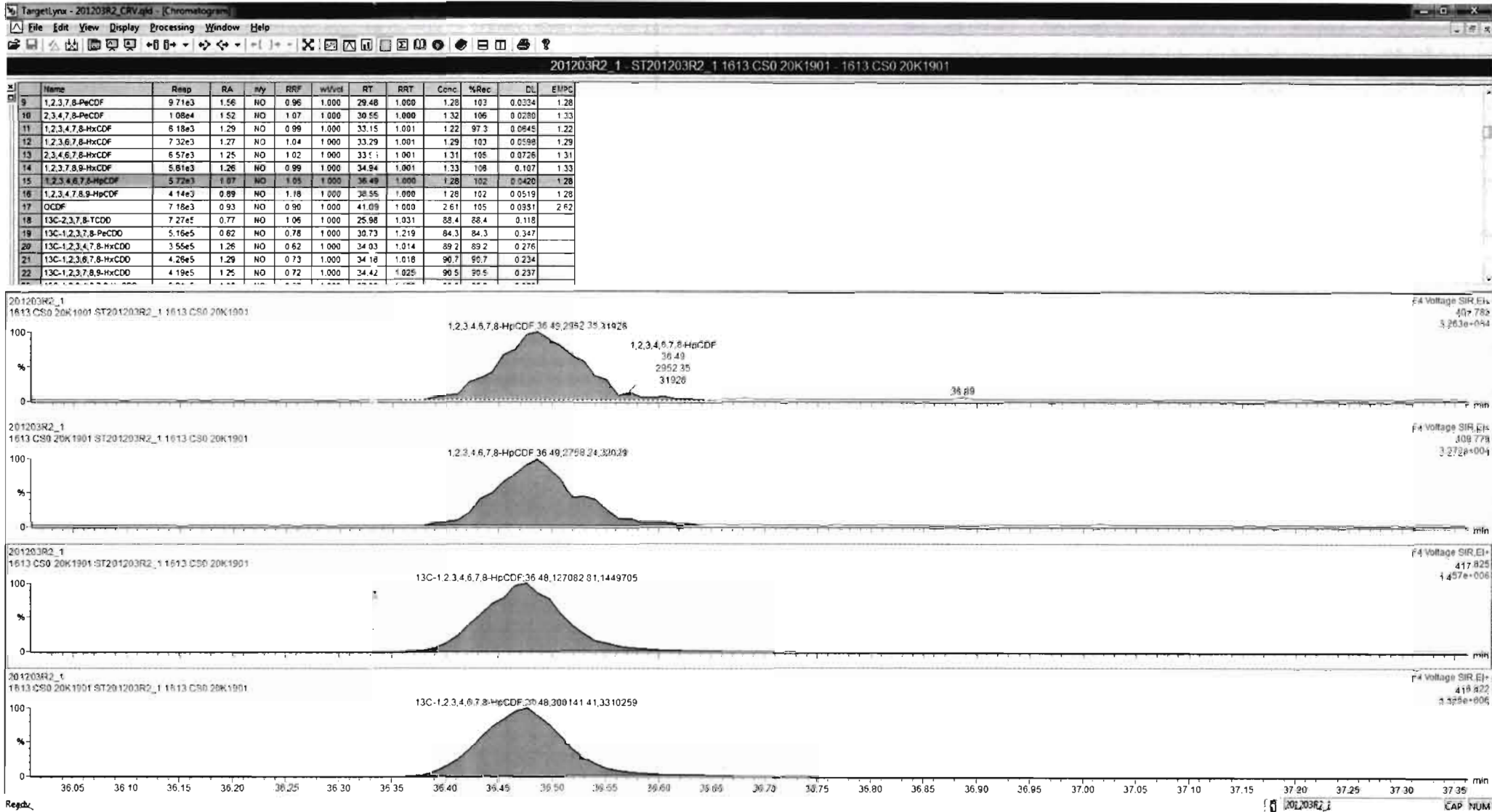


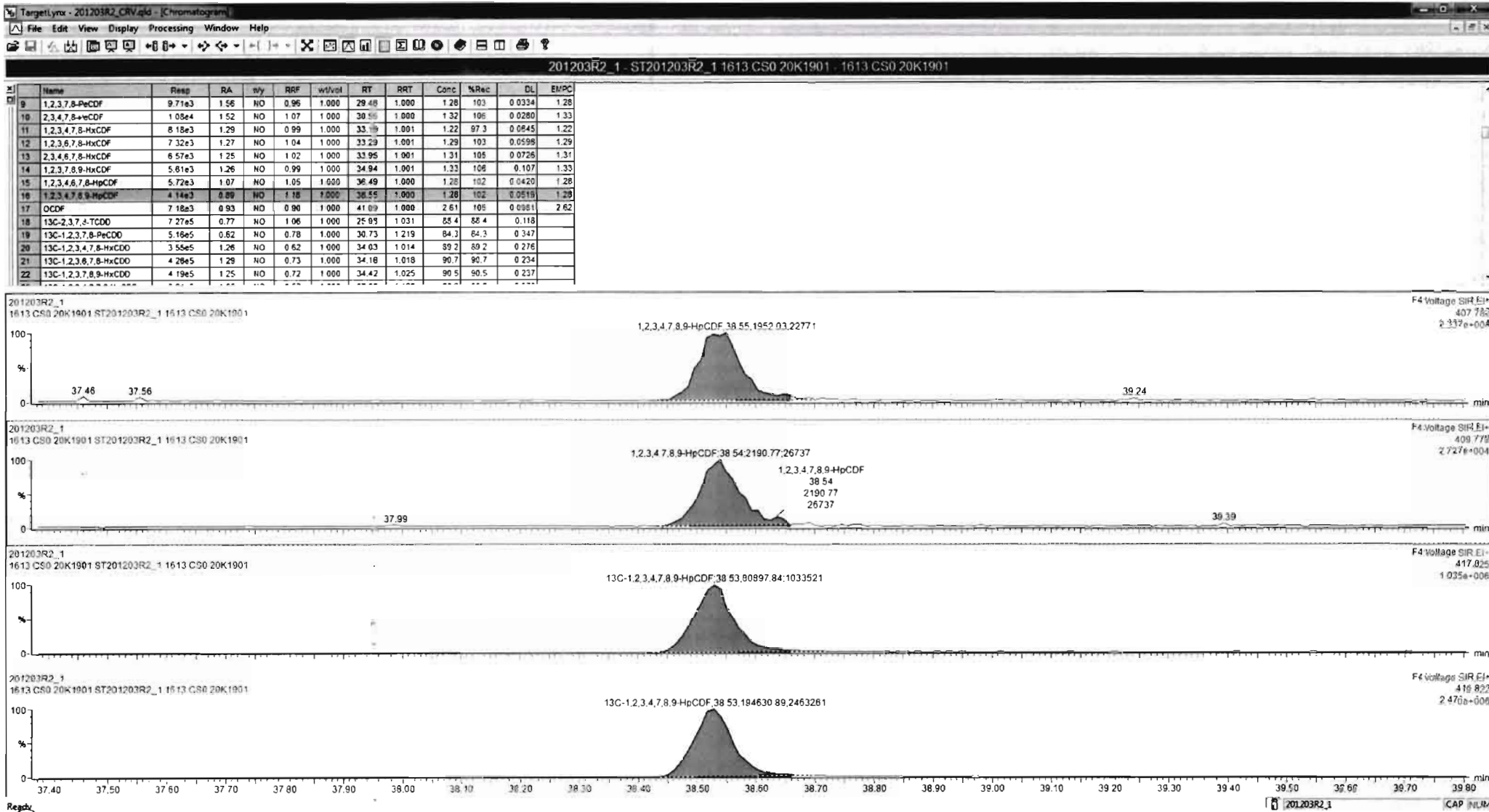
13C-1,2,3,4,6,7,8-HpCDF



DPE4





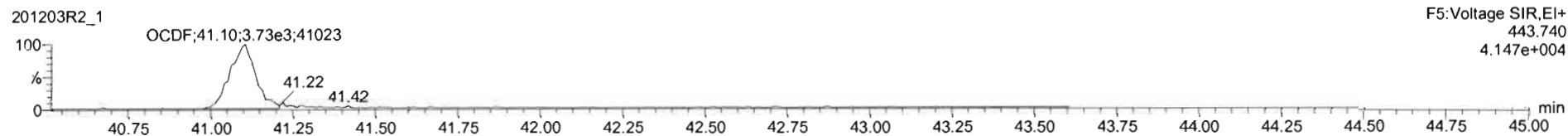
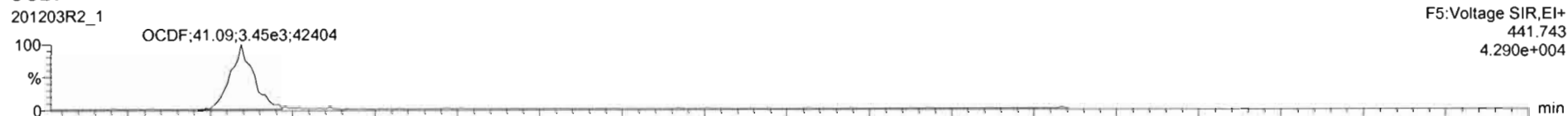


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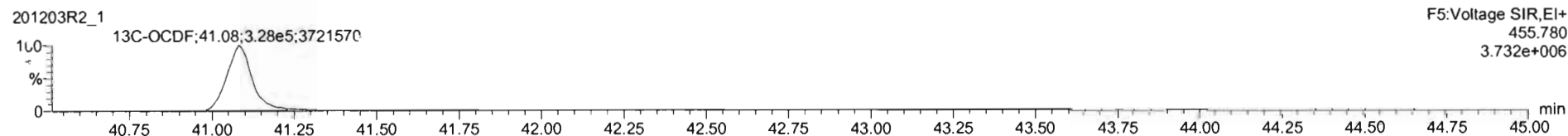
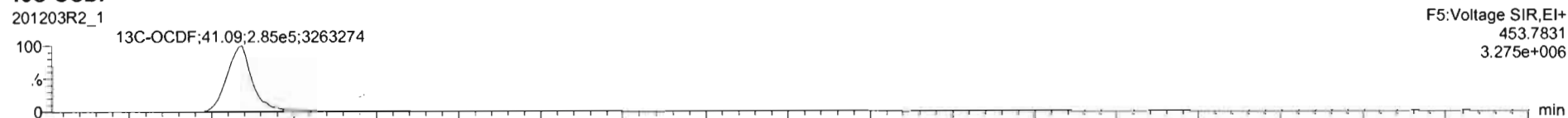
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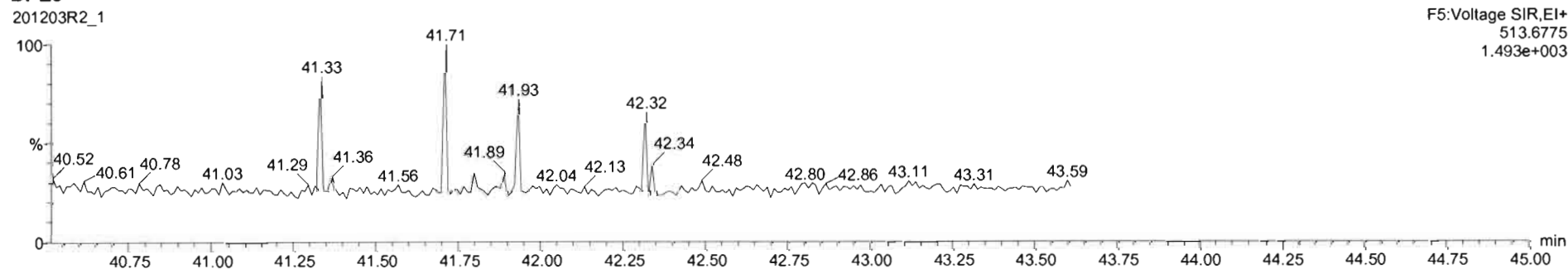
OCDF



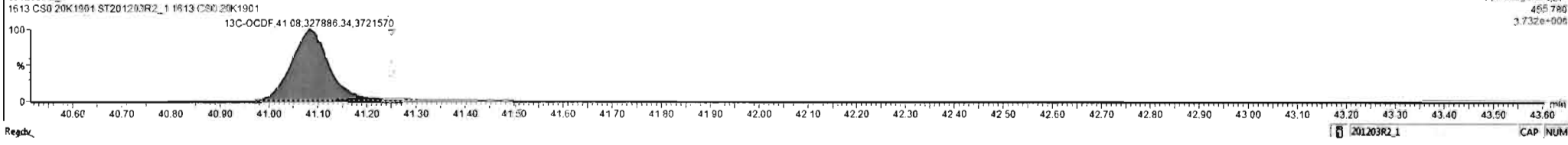
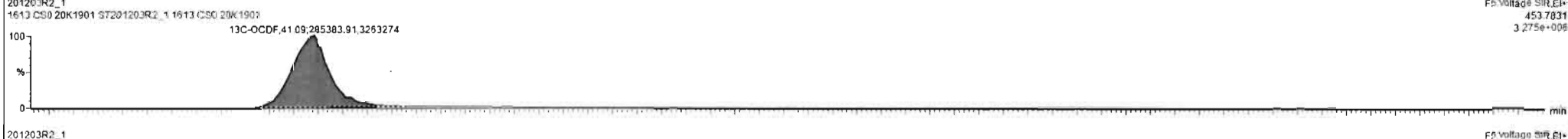
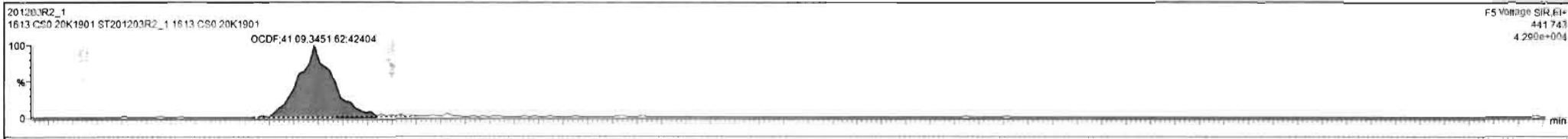
13C-OCDF



DPE5



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
9	1,2,3,7,8-PeCDF	9.71e3	1.56	NO	0.96	1.000	29.48	1.000	1.28	103	0.0334	1.28
10	2,3,4,7,8-PeCDF	1.08e4	1.52	NO	1.07	1.000	30.55	1.001	1.32	106	0.0280	1.33
11	1,2,3,4,7,8-HxCDF	8.18e3	1.29	NO	0.99	1.000	33.15	1.001	1.22	97.3	0.0645	1.22
12	1,2,3,6,7,8-HxCDF	7.32e3	1.27	NO	1.04	1.000	33.29	1.001	1.29	103	0.0593	1.29
13	2,3,4,6,7,8-HxCDF	6.57e3	1.25	NO	1.02	1.000	33.95	1.001	1.31	105	0.0726	1.31
14	1,2,3,7,8,9-HxCDF	5.81e3	1.28	NO	0.99	1.000	34.94	1.001	1.33	106	0.107	1.33
15	1,2,3,4,6,7,8-HpCDF	5.72e3	1.07	NO	1.05	1.000	36.49	1.000	1.28	102	0.0420	1.28
16	1,2,3,4,7,8,9-HpCDF	4.14e3	0.89	NO	1.18	1.000	38.55	1.000	1.28	102	0.0519	1.28
17	OCDF	7.18e3	0.93	NO	0.90	1.000	41.09	1.000	2.51	105	0.0951	2.62
18	13C-2,3,7,8-TCDD	7.27e5	0.77	NO	1.06	1.000	25.98	1.031	88.4	88.4	0.118	
19	13C-1,2,3,7,8-PeCDD	5.16e5	0.62	NO	0.78	1.000	30.73	1.219	84.3	84.3	0.347	
20	13C-1,2,3,4,7,8-HxCDD	3.55e5	1.26	NO	0.62	1.000	34.03	1.014	89.2	89.2	0.276	
21	13C-1,2,3,6,7,8-HxCDD	4.26e5	1.29	NO	0.73	1.000	34.16	1.018	90.7	90.7	0.234	
22	13C-1,2,3,7,8,9-HxCDD	4.19e5	1.25	NO	0.72	1.000	34.42	1.025	90.5	90.5	0.237	



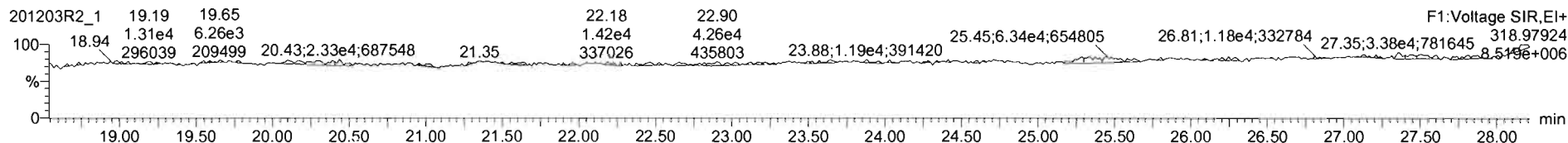
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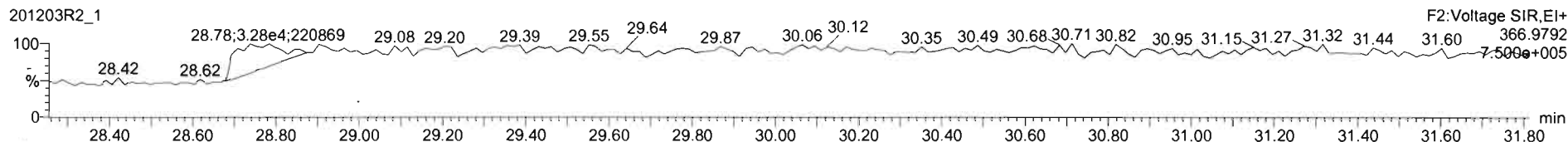
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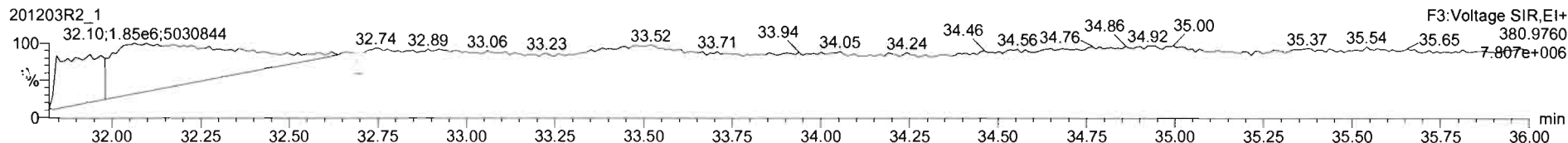
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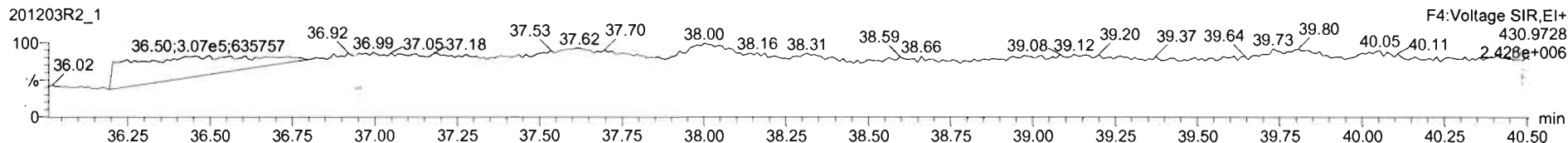
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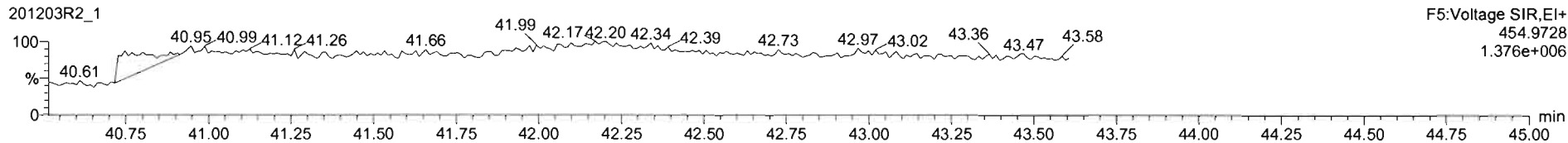
PFK3



PFK4



PFK5



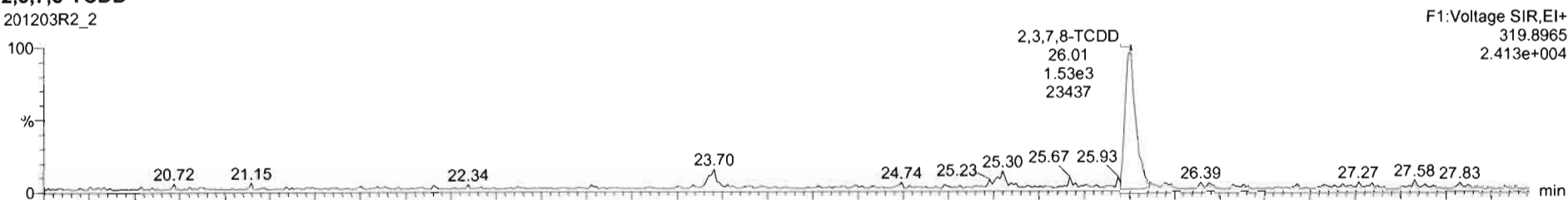
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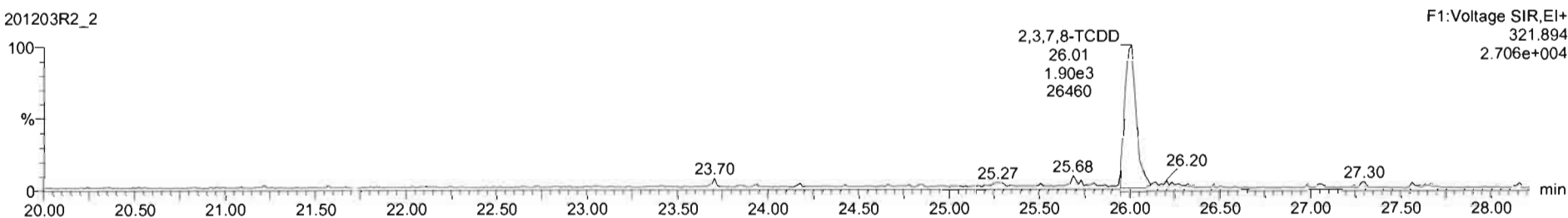
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2,3,7,8-TCDD

201203R2_2

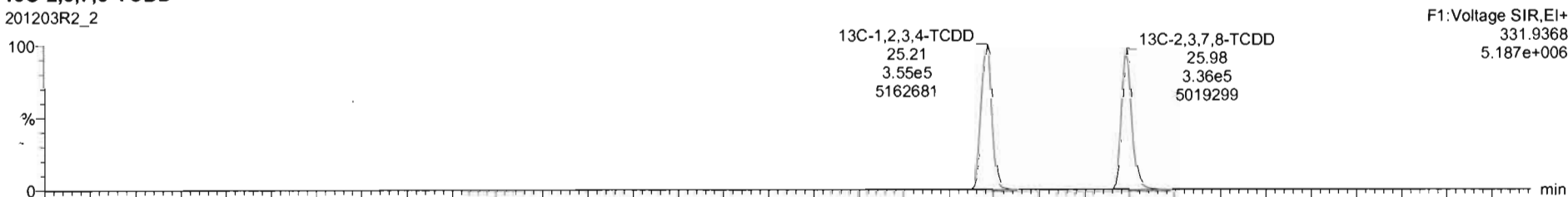


201203R2_2

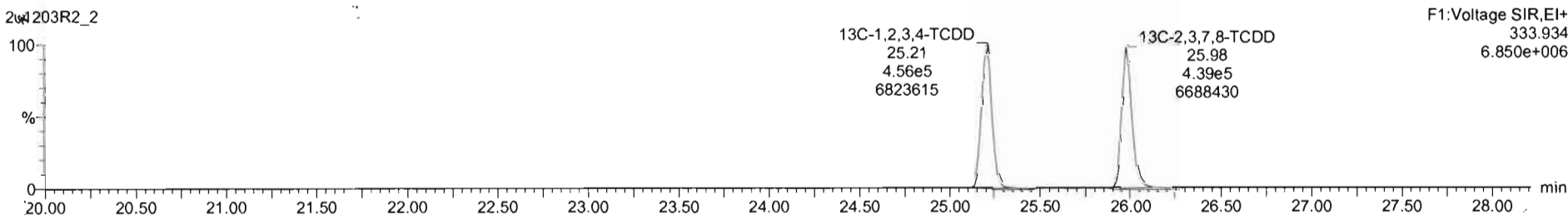


13C-2,3,7,8-TCDD

201203R2_2

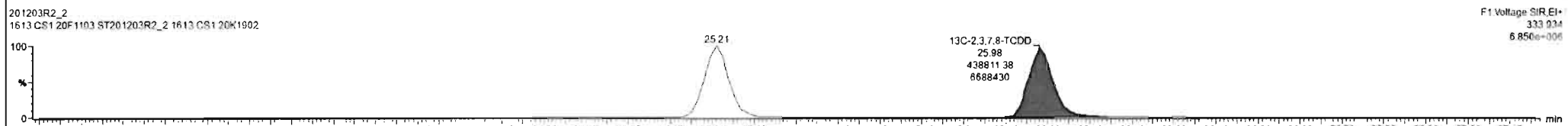
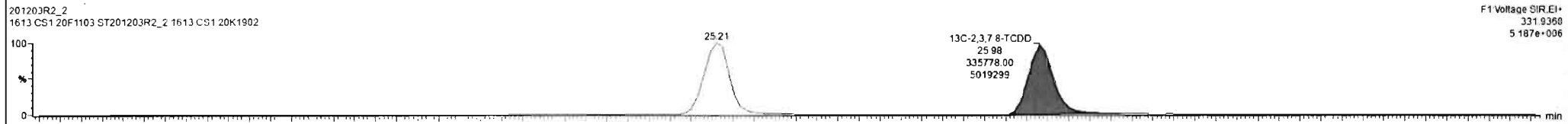
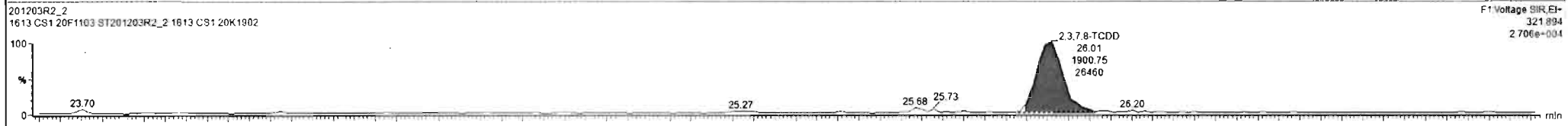
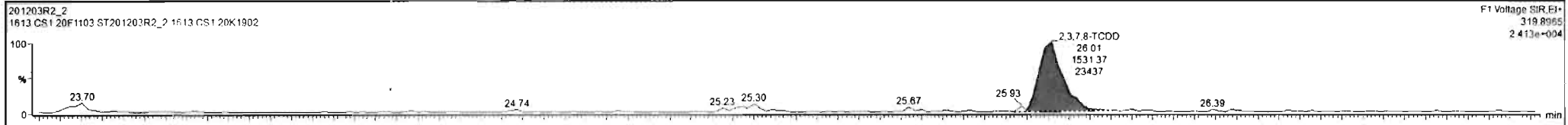


201203R2_2



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	9.452	96.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.28	91.7	0.0238	2.28
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	69.0	0.0426	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.6	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.63	1.000	4.43	88.8	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.18	86.3	0.0379	2.18
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.04	1.000	2.19	87.6	0.0855	2.19



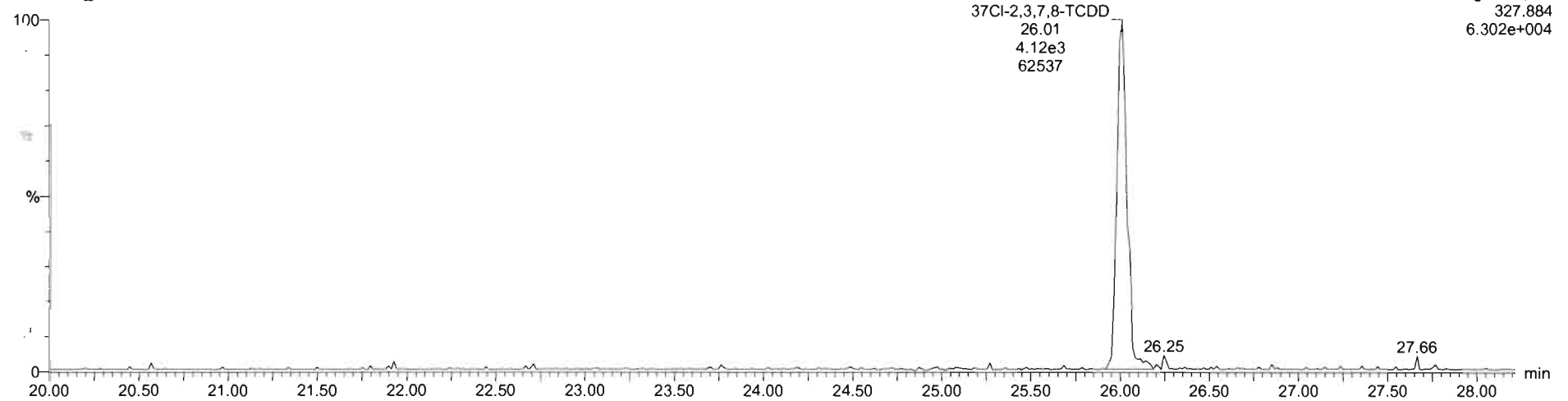
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Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

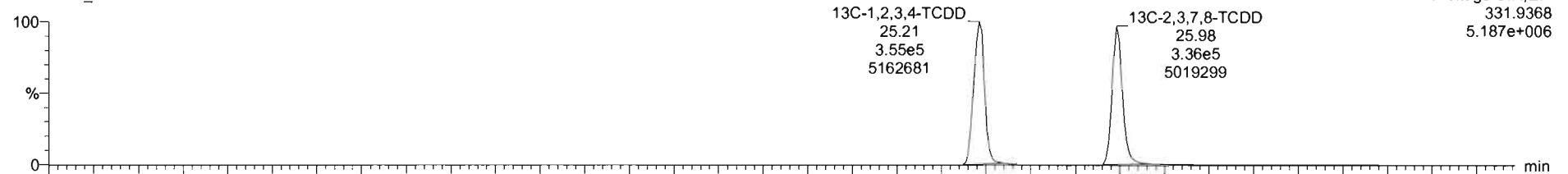
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201203R2_2

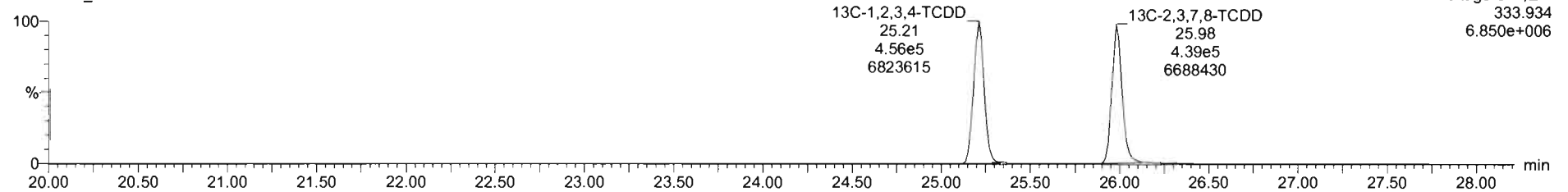


13C-1,2,3,4-TCDD

201203R2_2



201203R2_2



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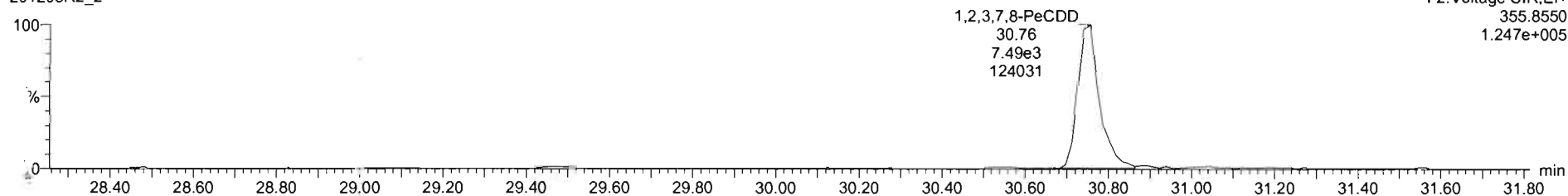
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1,2,3,7,8-PeCDD

201203R2_2

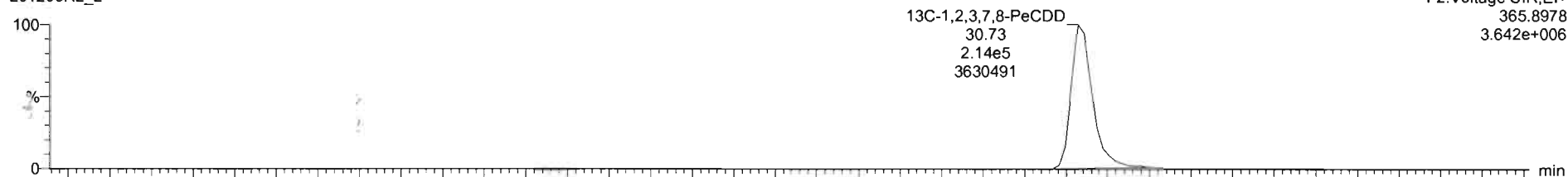


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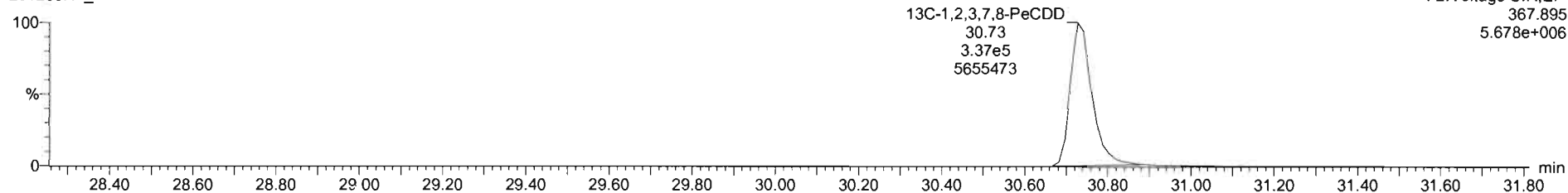


13C-1,2,3,7,8-PeCDD

201203R2_2

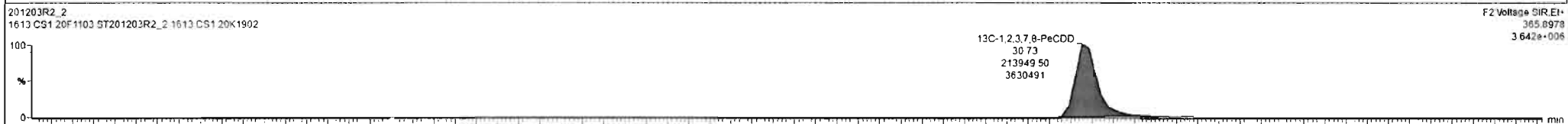
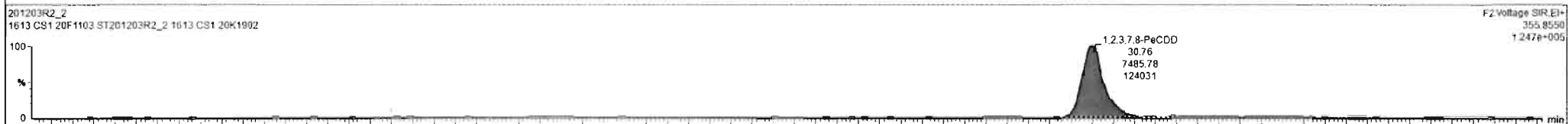


201203R2_2



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 1613 CS1 20K1902

#	Name	Resp	RA	n/y	RRP	wf/wd	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	90.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.29
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.6	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	88.3	0.0379	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.11	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.39	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.51	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.8	0.0555	2.19



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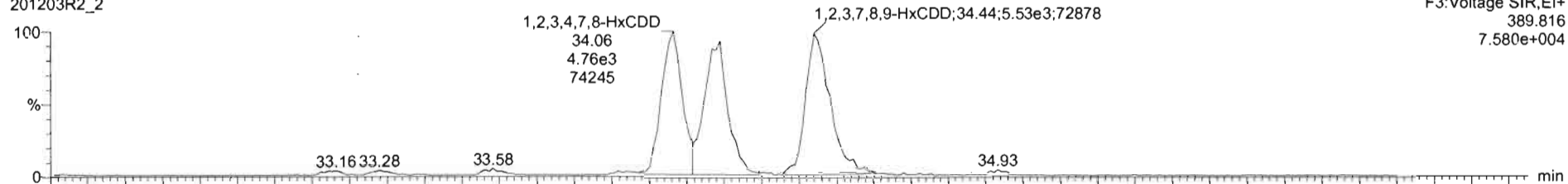
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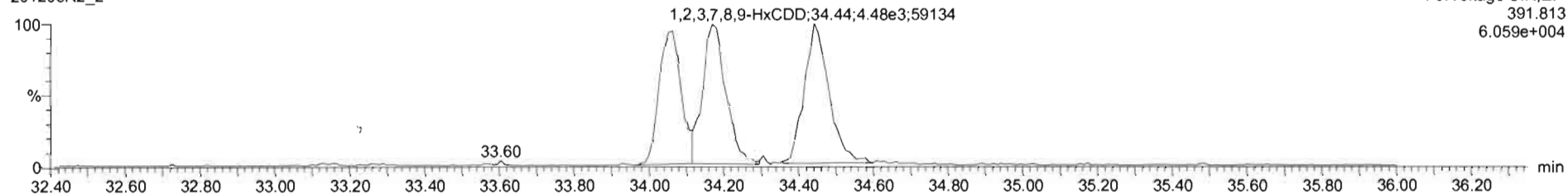
1,2,3,4,7,8-HxCDD

201203R2_2



F3:Voltage SIR,EI+
389.816
7.580e+004

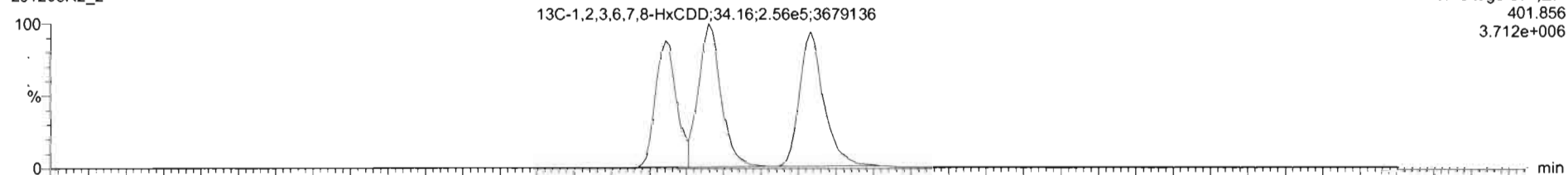
201203R2_2



F3:Voltage SIR,EI+
391.813
6.059e+004

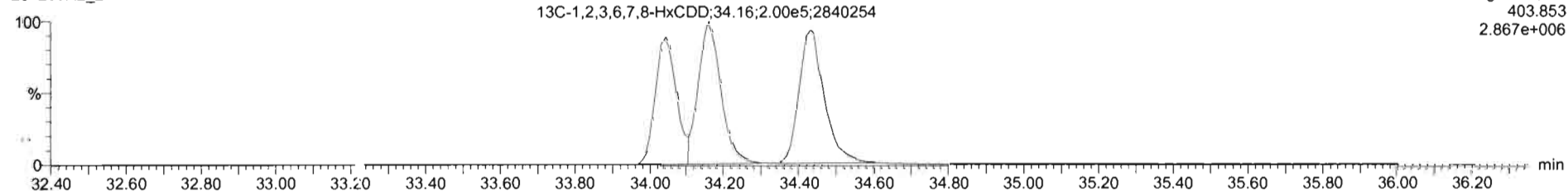
13C-1,2,3,4,7,8-HxCDD

201203R2_2



F3:Voltage SIR,EI+
401.856
3.712e+006

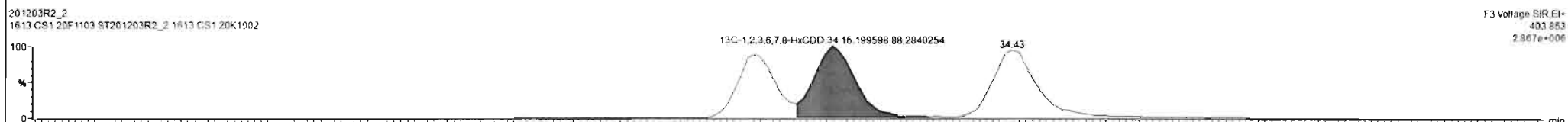
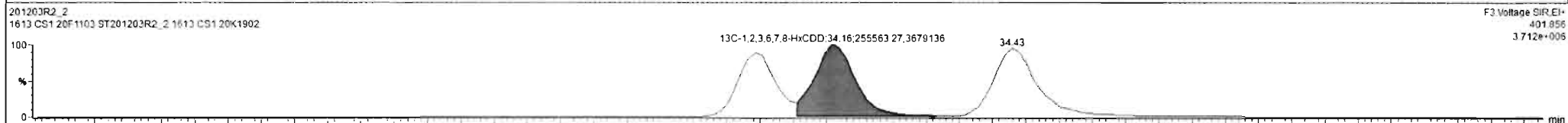
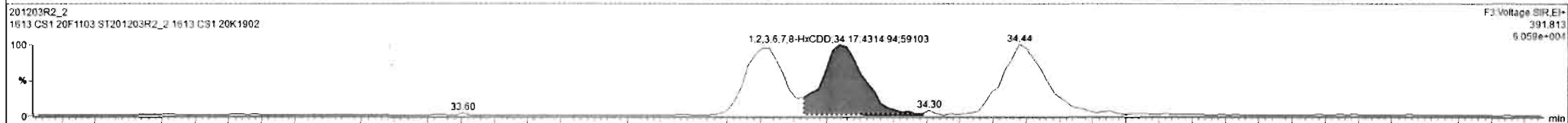
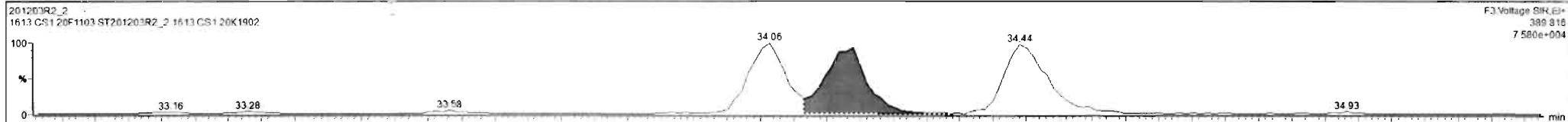
201203R2_2



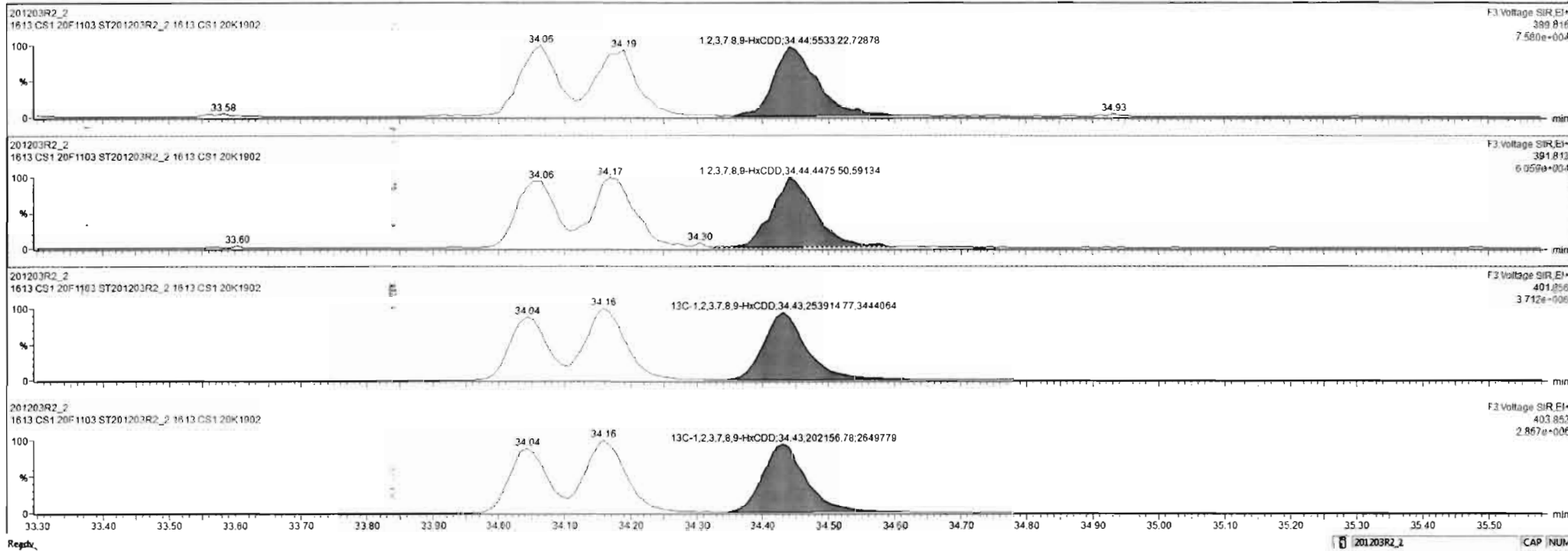
F3:Voltage SIR,EI+
403.853
2.867e+006

201203R2_2 - ST201203R2_2 1613 CS1 20K1902 1613 CS1 20K1902

Name	Resp	RA	rvy	RRF	wVvol	RT	RRT	Conc	%Rec	Cl	EMPC
1 2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	99.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.75	1.001	2.29	91.7	0.0298	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.08	1.001	2.22	89.0	0.0428	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.06e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.63	1.000	4.43	98.8	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.64e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	96.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.98	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	67.6	0.0855	2.19



#	Name	Resp	RA	rvy	RRF	wt/wst	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	90.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0299	2.29
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0428	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.26	91.2	0.0427	2.26
5	1,2,3,7,8,9-HxCDD	1.05e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.6	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.20	1.001	0.442	89.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	88.3	0.0379	2.16
11	1,2,3,4,7,8-HxCDF	1.29e4	1.16	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0555	2.19



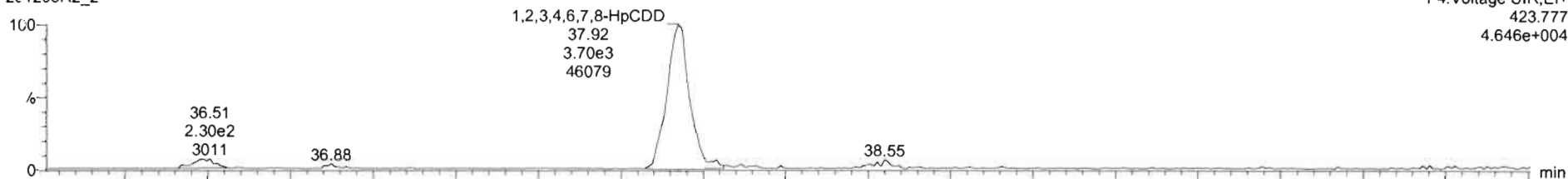
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Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

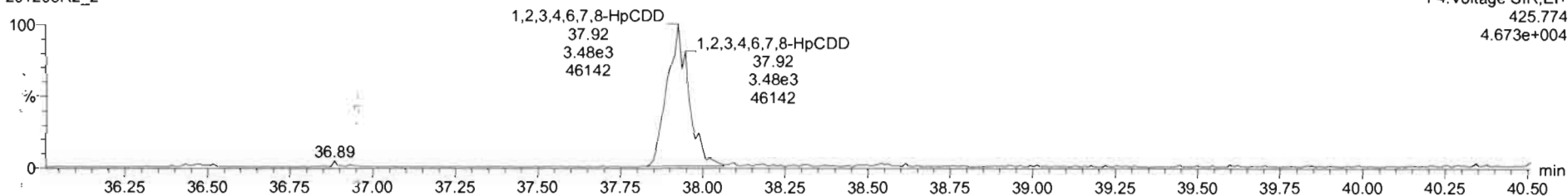
1,2,3,4,6,7,8-HpCDD

2C1203R2_2



F4:Voltage SIR,EI+
423.777
4.646e+004

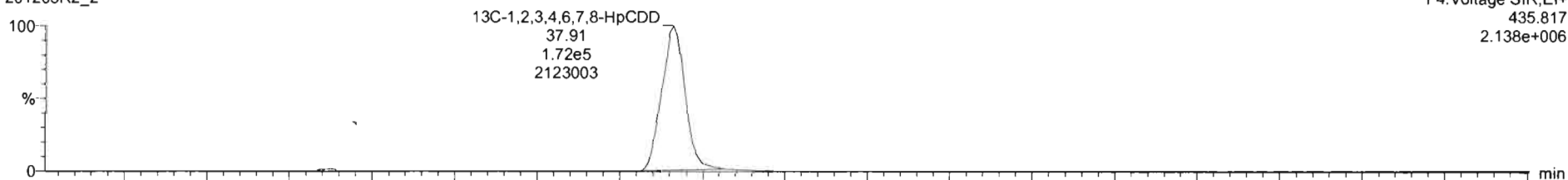
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F4:Voltage SIR,EI+
425.774
4.673e+004

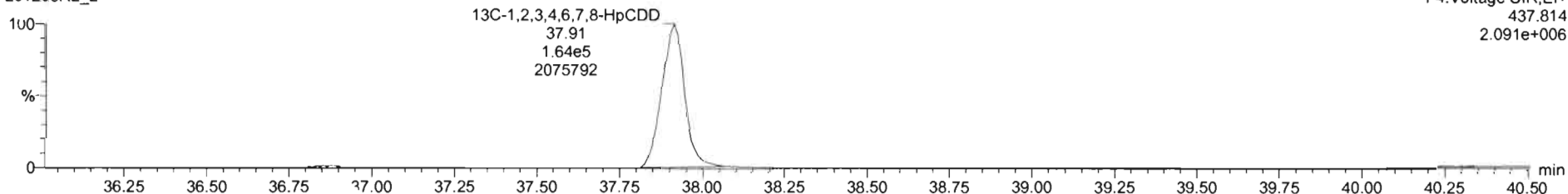
13C-1,2,3,4,6,7,8-HpCDD

201203R2_2



F4:Voltage SIR,EI+
435.817
2.138e+006

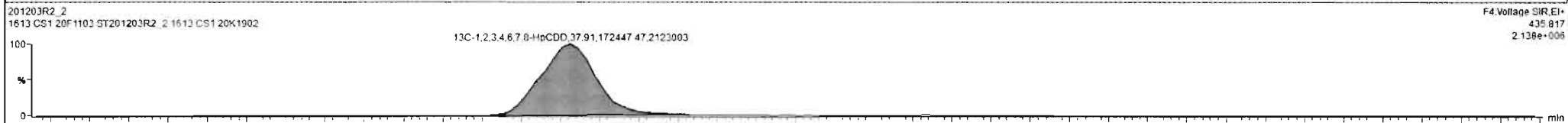
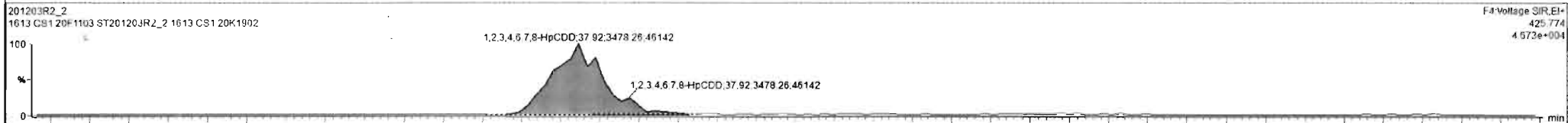
201203R2_2



F4:Voltage SIR,EI+
437.814
2.091e+006

201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	Name	Resp	RA	nly	RRF	wUVvl	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	28.01	1.001	0.452	99.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.28
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0428	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.05e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.5	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0378	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	89.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.90	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.8	0.0855	2.19



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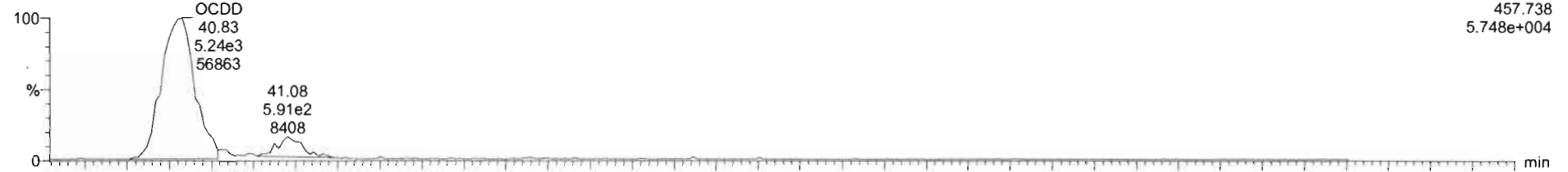
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

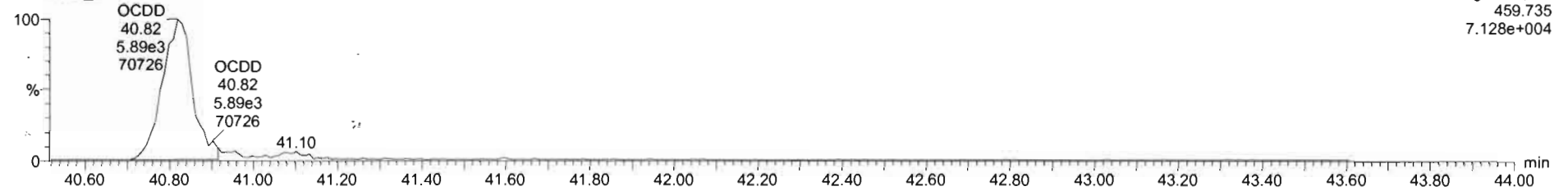
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OCDD

201203R2_2

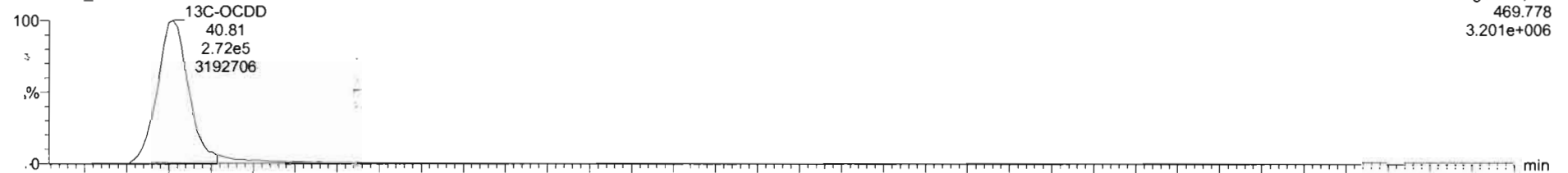


201203R2_2

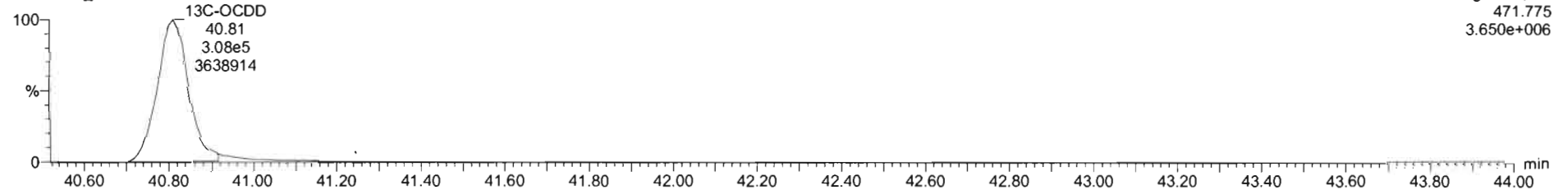


13C-OCDD

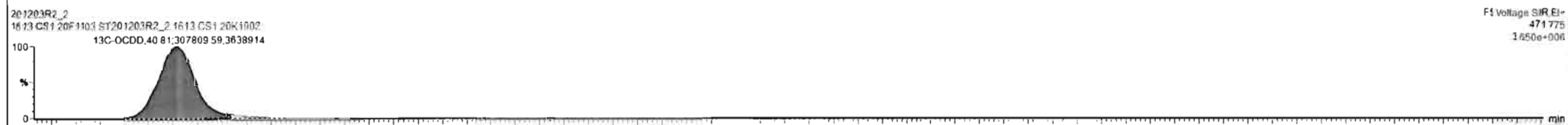
201203R2_2



201203R2_2



#	Name	Resp	RA	n/y	RRF	wtwei	RT	RRT	Conc	%Rec	DL	ElrPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	90.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.29
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.08	1.001	2.22	89.0	0.0426	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.6	0.0612	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.56	1.000	2.16	88.3	0.0379	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.98	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.67	1.000	2.19	87.6	0.0855	2.19



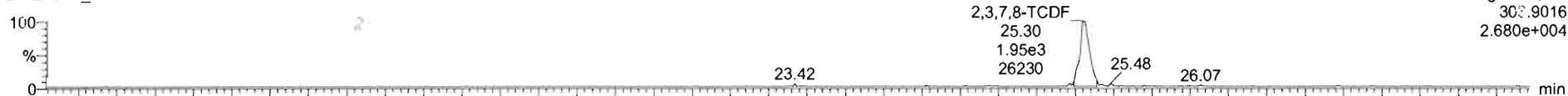
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

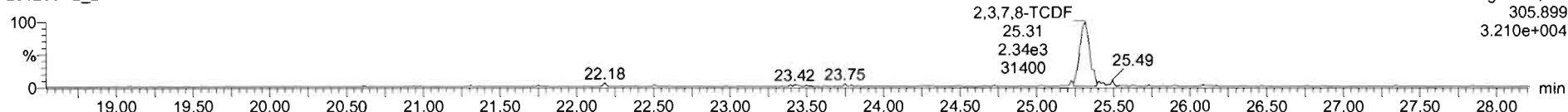
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2,3,7,8-TCDF

201203R2_2

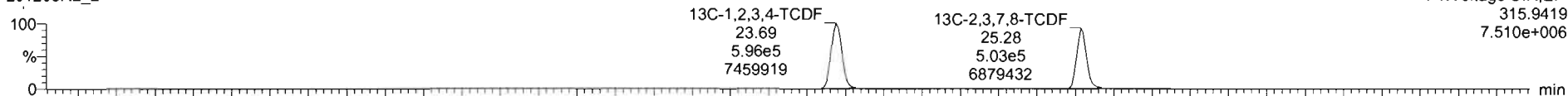


201203R2_2

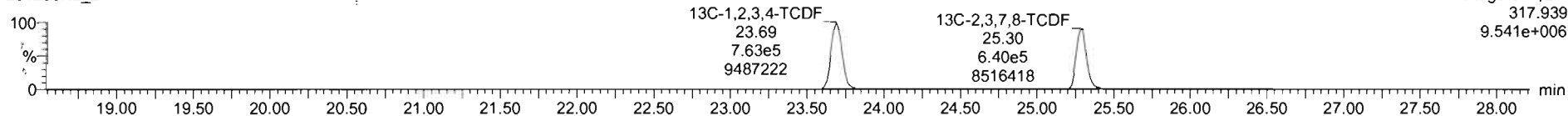


13C-2,3,7,8-TCDF

201203R2_2

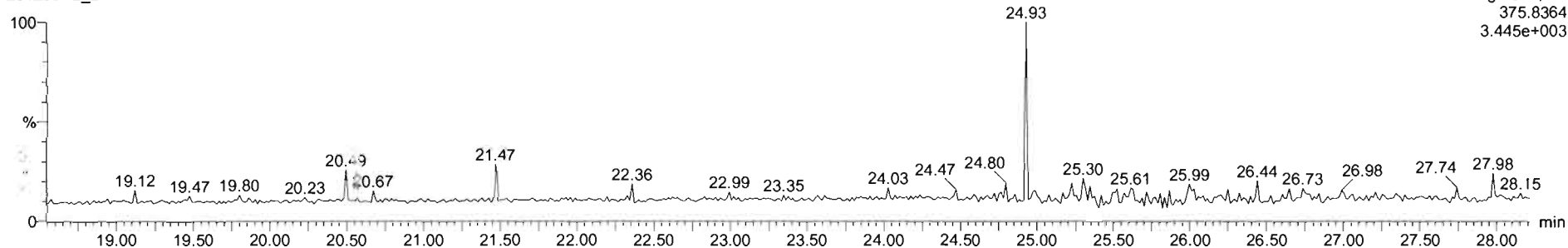


201203R2_2



D1E1

201203R2_2

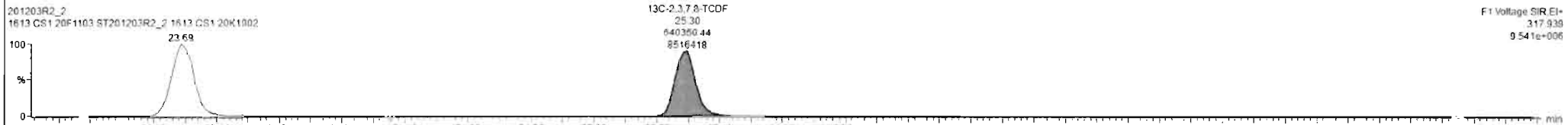
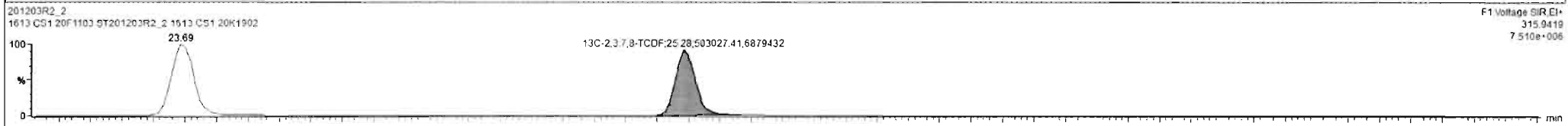
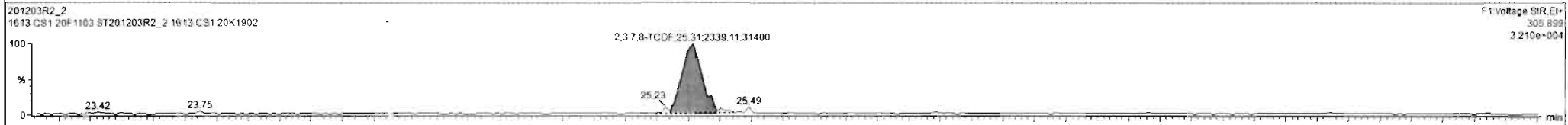
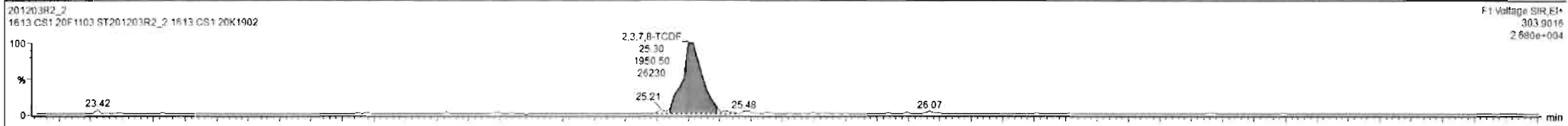


TargetLynx - 201203R2_CRV.gld - [Chromatogram]

File Edit View Display Processing Window Help

201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	ny	RRF	wt/vol	R	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.43e3	0.81	NO	0.98	1.000	26.07	1.001	0.452	90.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.75	1.001	2.29	91.7	0.0298	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4 1,2,3,6,7,8-HxCDD	9.26e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.12	1.000	2.32	92.8	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	89.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.95	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.98	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0855	2.19



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

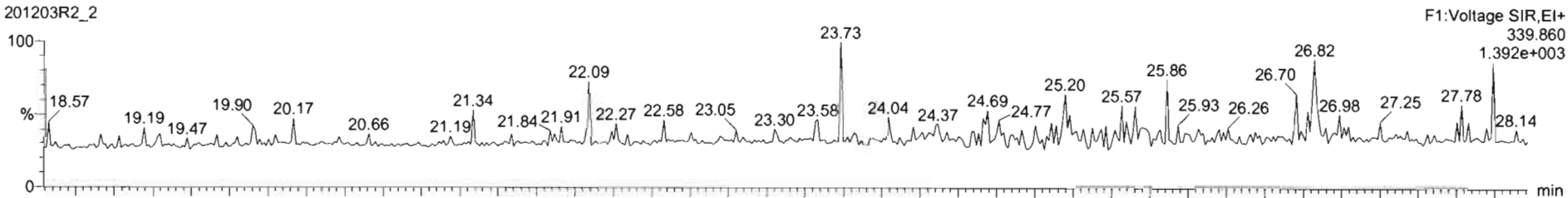
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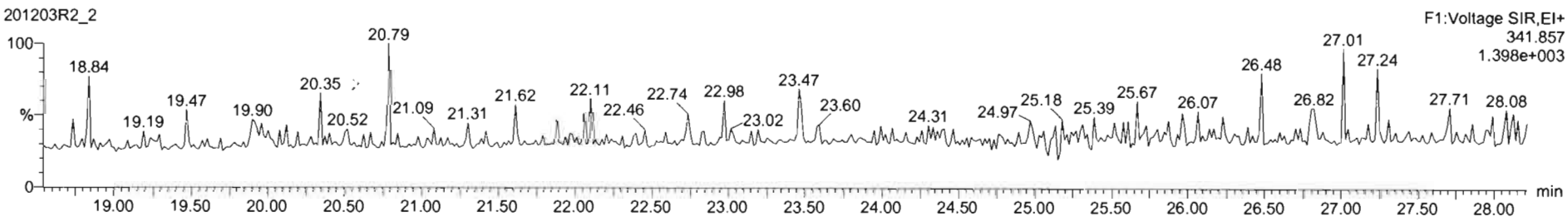
Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

1st Func. Penta-Furans

201203R2_2

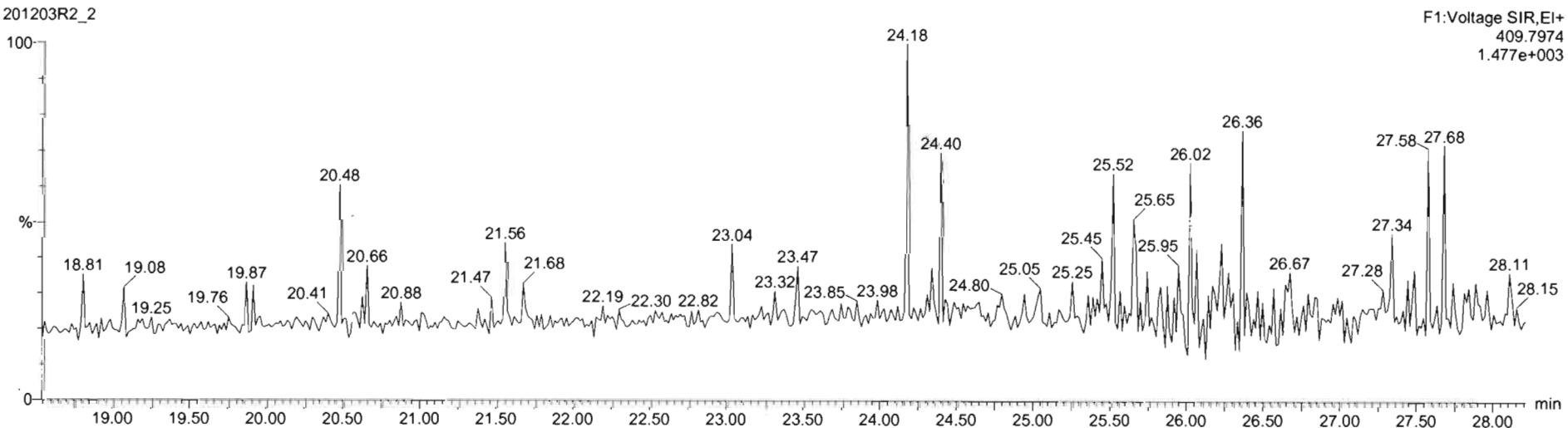


201203R2_2



DPE6

201203R2_2



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

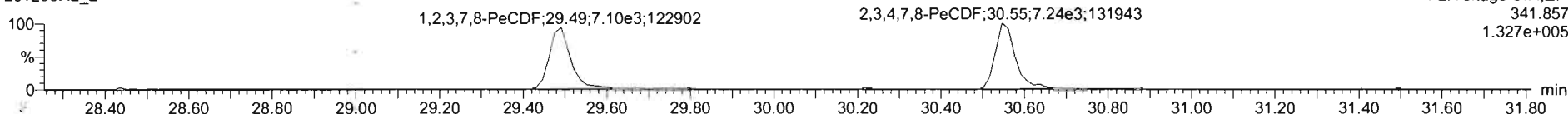
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1,2,3,7,8-PeCDF

201203R2_2

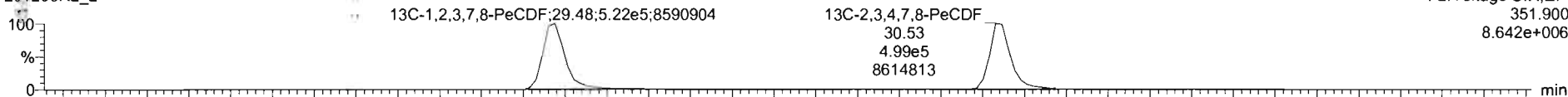


201203R2_2

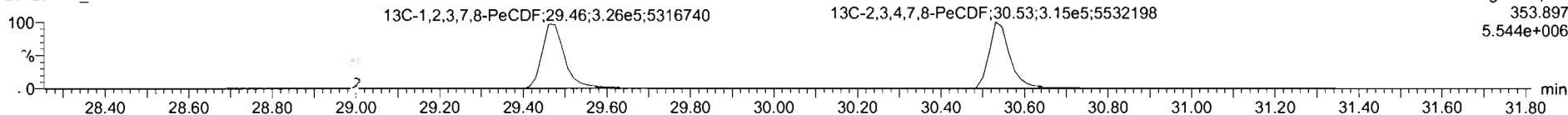


13C-1,2,3,7,8-PeCDF

201203R2_2

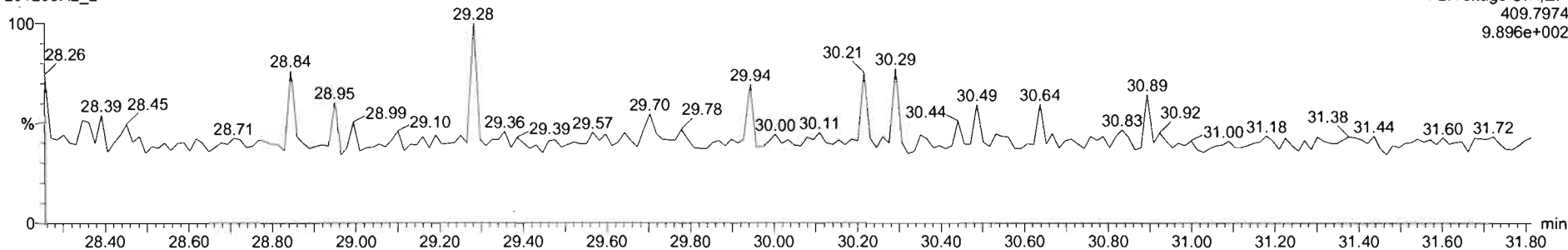


201203R2_2



DPE2

201203R2_2

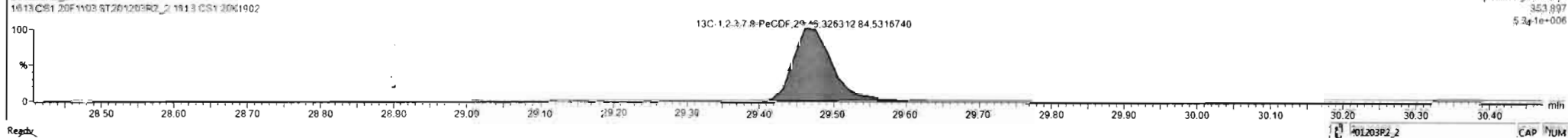
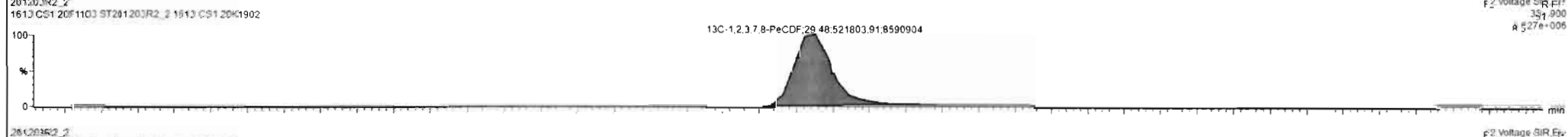
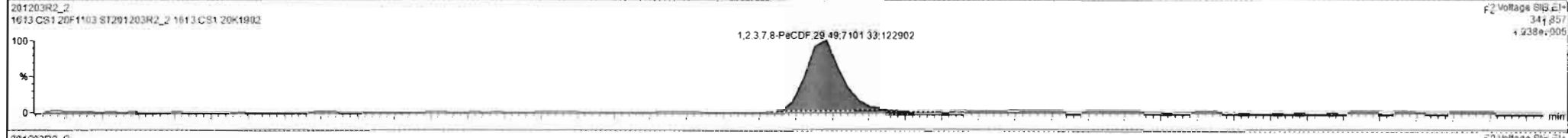
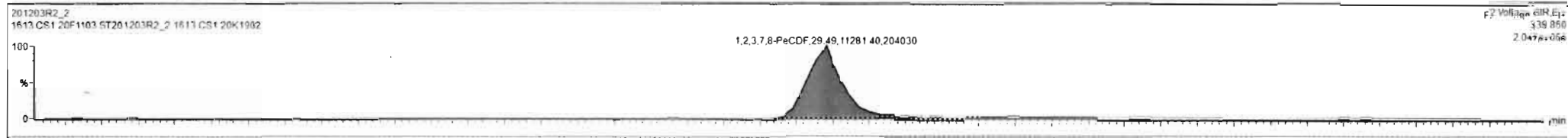


Targetlynx - 201203R2_CRV.gld - [Chromatogram]

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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	90.4	0.0227	0.462
2	1,2,3,7,8-HeCDD	1.18e4	0.57	NO	0.93	1.000	36.75	1.001	2.29	91.7	0.0298	2.29
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4	1,2,3,6,7,8-HxCDD	9.35e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.03e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6	1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	46.25	1.000	4.43	88.8	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0565	2.19

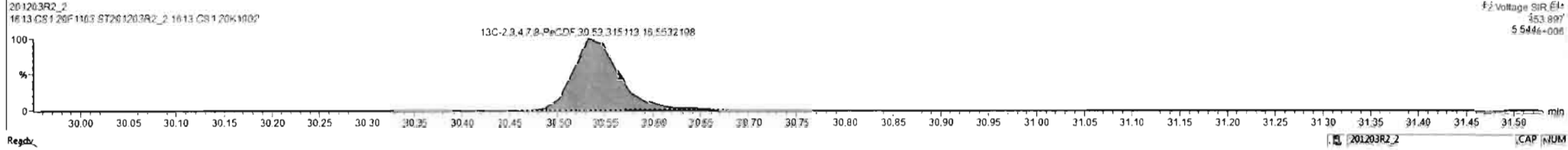
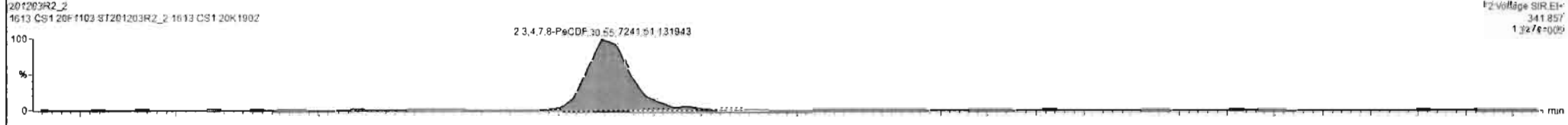
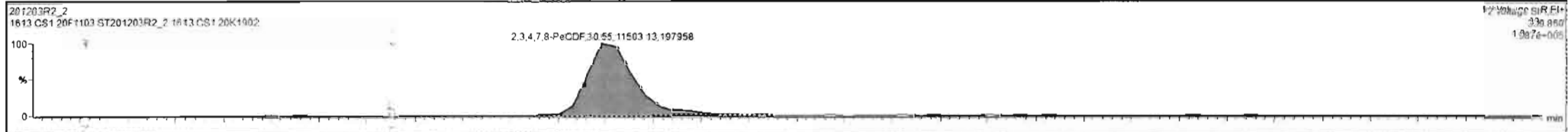


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	nty	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	ElupC
1 2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	28.01	1.001	0.452	90.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0295	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.77	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HxCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	82.8	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	99.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.25	90.3	0.0424	2.25
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	89.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.90	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0855	2.19



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

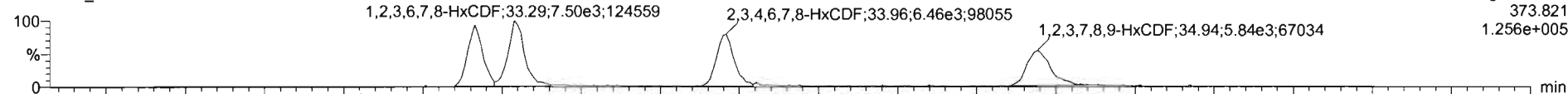
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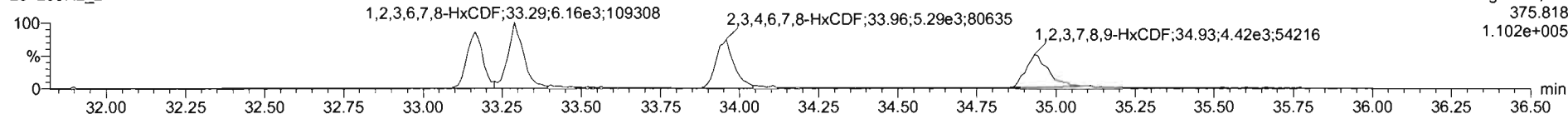
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1, 1,3,4,7,8-HxCDF

201203R2_2

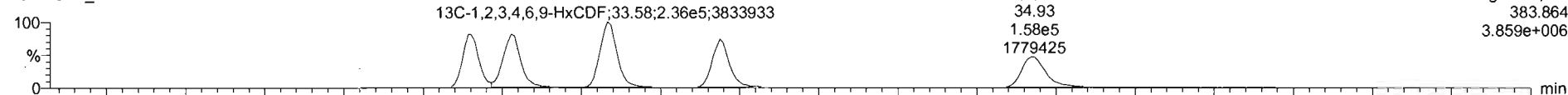


201203R2_2

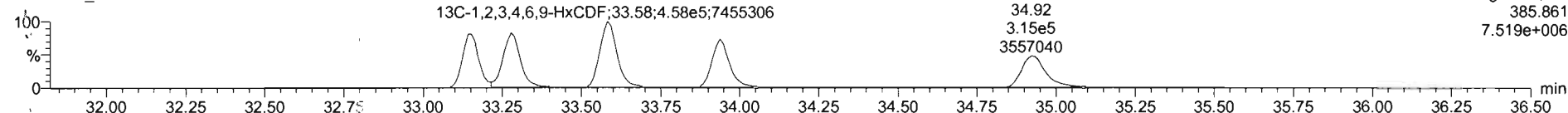


13C-1,2,3,4,7,8-HxCDF

201203R2_2

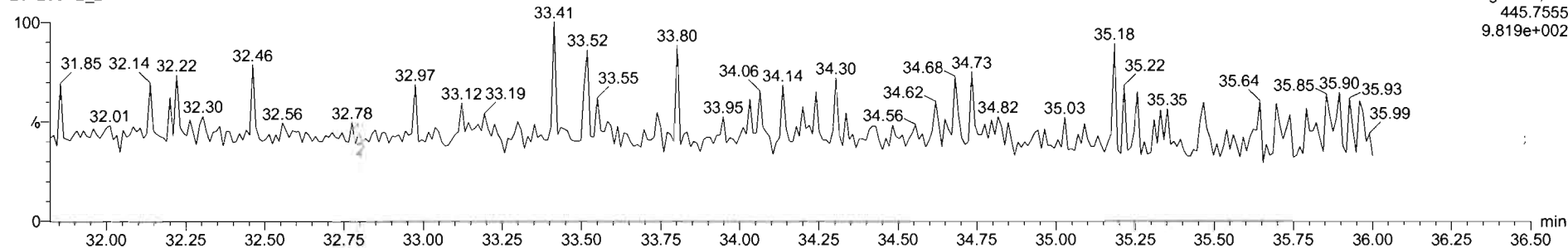


201203R2_2



DPE3

201203R2_2

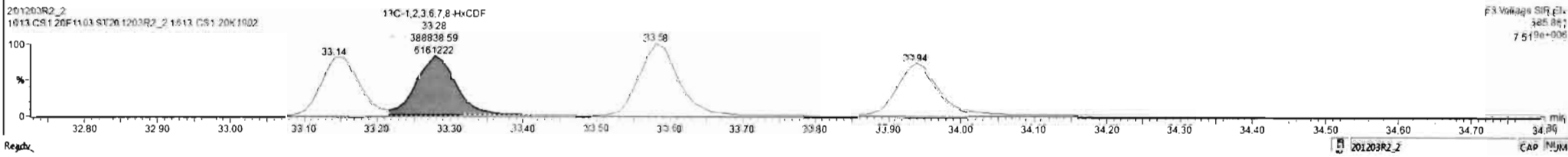
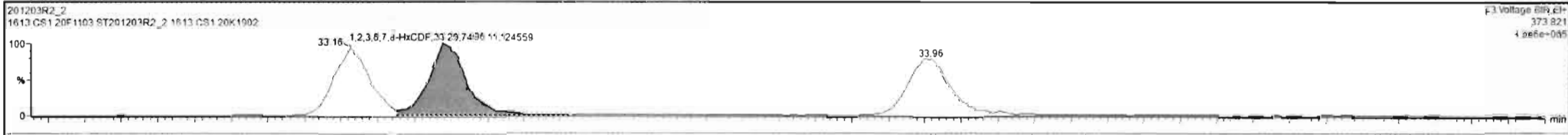


TargetLynx - 271203R2_CRV.qld - [Chromatogram]

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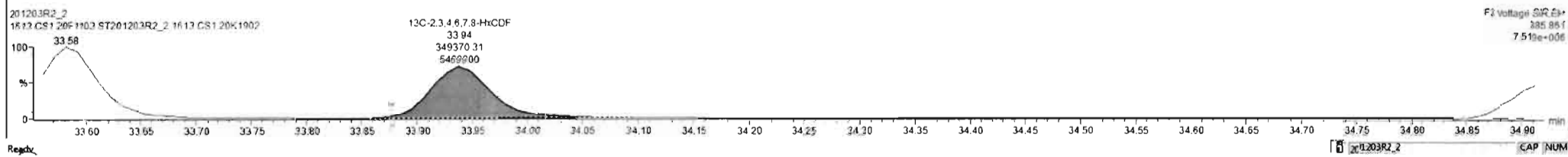
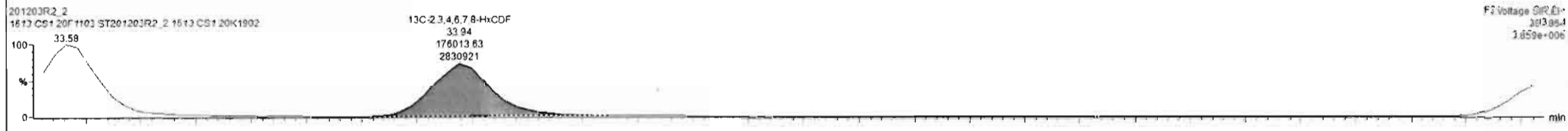
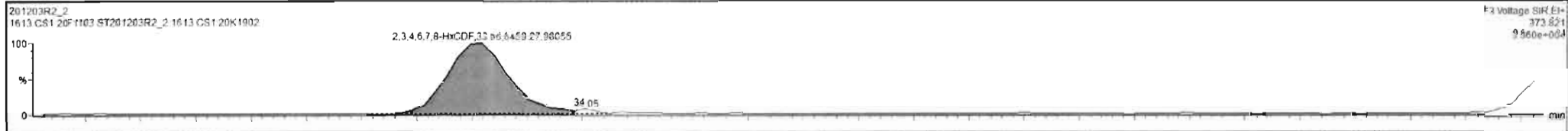
201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	Name	Resp	RA	nly	RRF	wt/wtl	RT	RRT	Conc	NRec	Dt	EMPC
1	2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	93.4	0.0227	0.452
2	1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.25	91.7	0.0298	2.23
3	1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0428	2.22
4	1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5	1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.20	91.9	0.0427	2.20
6	1,2,3,4,6,7,8-HpCDD	7.19e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.6	0.0791	2.32
7	OCDD	1.11e4	0.89	NO	0.87	1.000	40.63	1.000	4.43	86.6	0.0812	4.43
8	2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9	1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10	2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0378	2.16
11	1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12	1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.28	1.000	2.23	89.2	0.0473	2.23
13	2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14	1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.6	0.0855	2.19



201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.43e3	0.81	NO	0.98	1.000	28.0	1.001	0.452	90.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	69.0	0.0428	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HpCDD	7.18e3	1.06	NO	0.92	1.000	37.52	1.000	2.32	92.6	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	86.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0124	0.442
9 1,2,3,7,8-PeCDF	1.84e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	86.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.29	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.96	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.94	1.000	2.19	87.8	0.0855	2.19



F3 Voltage SIR E1+
373.621
9.660e-004

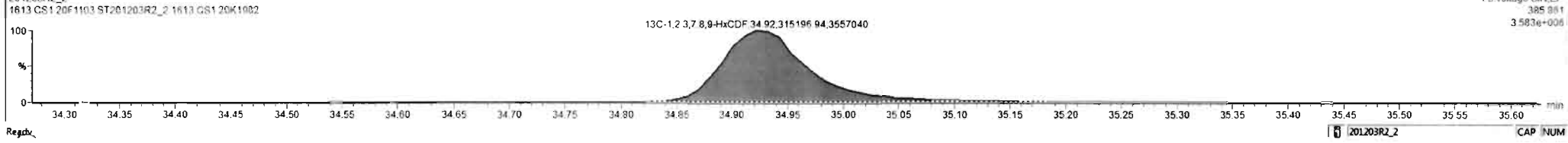
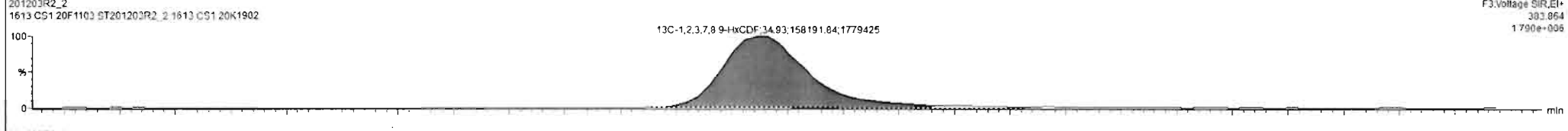
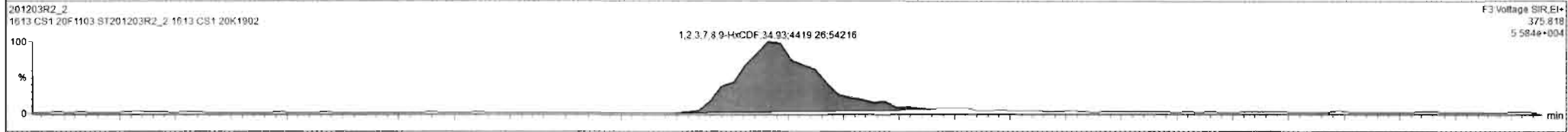
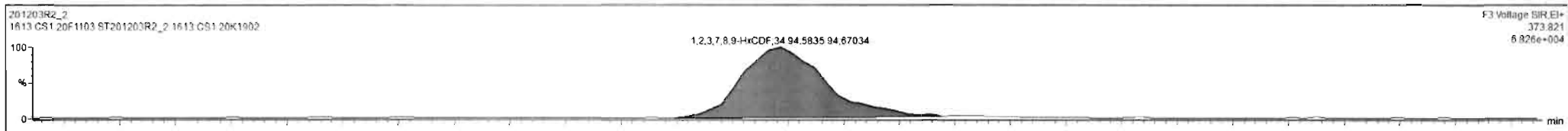
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8.126e-004

F2 Voltage SIR E1+
303.954
1.859e-006

F2 Voltage SIR E3+
385.851
7.519e-006

201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	n/y	RRF	ws/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	3.43e3	0.81	NO	0.98	1.000	26.01	1.001	0.452	99.4	0.0227	0.452
2 1,2,3,7,8-PeCDD	1.18e4	0.57	NO	0.93	1.000	30.76	1.001	2.29	91.7	0.0298	2.29
3 1,2,3,4,7,8-HxCDD	8.64e3	1.23	NO	1.02	1.000	34.06	1.001	2.22	89.0	0.0426	2.22
4 1,2,3,6,7,8-HxCDD	9.36e3	1.17	NO	0.90	1.000	34.19	1.001	2.28	91.2	0.0427	2.28
5 1,2,3,7,8,9-HxCDD	1.00e4	1.24	NO	0.96	1.000	34.44	1.000	2.30	91.9	0.0427	2.30
6 1,2,3,4,6,7,8-HxCDD	7.18e3	1.06	NO	0.92	1.000	37.92	1.000	2.32	92.8	0.0791	2.32
7 OCDD	1.11e4	0.89	NO	0.87	1.000	40.83	1.000	4.43	88.6	0.0812	4.43
8 2,3,7,8-TCDF	4.29e3	0.83	NO	0.85	1.000	25.30	1.001	0.442	88.5	0.0134	0.442
9 1,2,3,7,8-PeCDF	1.64e4	1.59	NO	0.96	1.000	29.49	1.000	2.26	90.3	0.0424	2.26
10 2,3,4,7,8-PeCDF	1.87e4	1.59	NO	1.07	1.000	30.55	1.000	2.16	88.3	0.0379	2.16
11 1,2,3,4,7,8-HxCDF	1.20e4	1.18	NO	0.99	1.000	33.16	1.001	2.21	88.4	0.0494	2.21
12 1,2,3,6,7,8-HxCDF	1.37e4	1.22	NO	1.04	1.000	33.77	1.000	2.23	89.2	0.0473	2.23
13 2,3,4,6,7,8-HxCDF	1.17e4	1.22	NO	1.02	1.000	33.98	1.001	2.19	87.7	0.0522	2.19
14 1,2,3,7,8,9-HxCDF	1.03e4	1.32	NO	0.99	1.000	34.3	1.000	2.19	87.8	0.0555	2.19

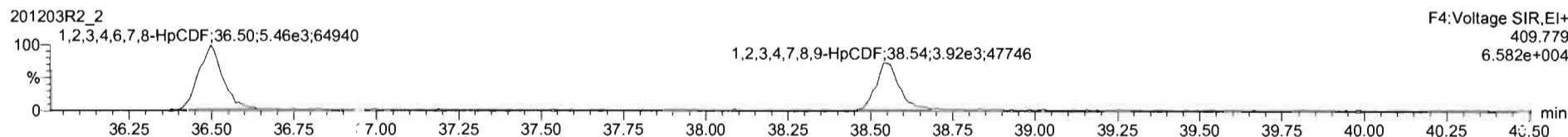
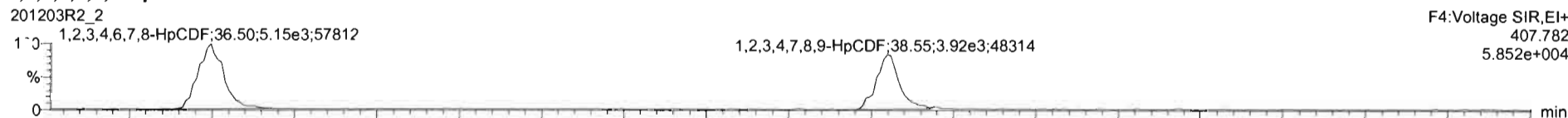


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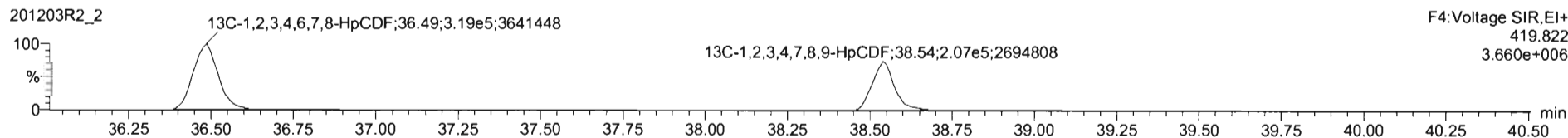
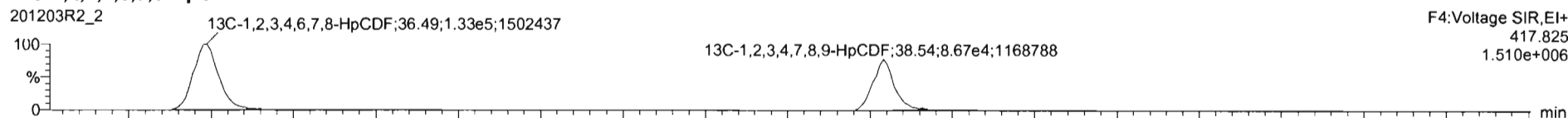
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

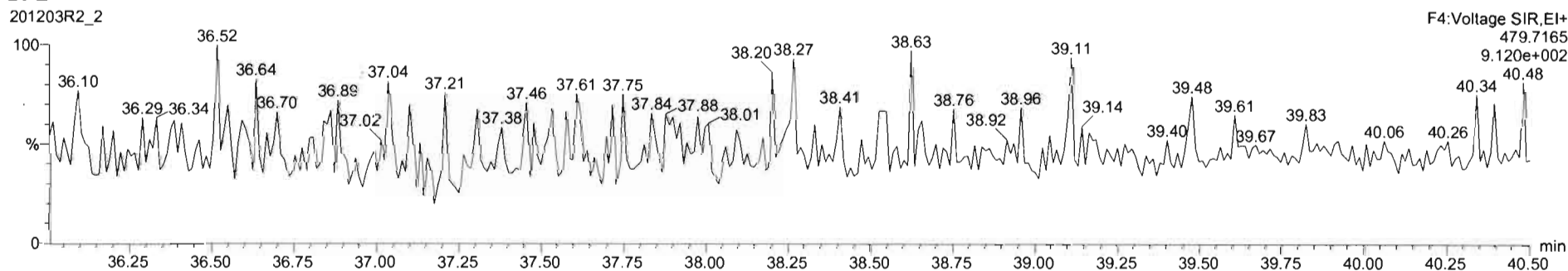
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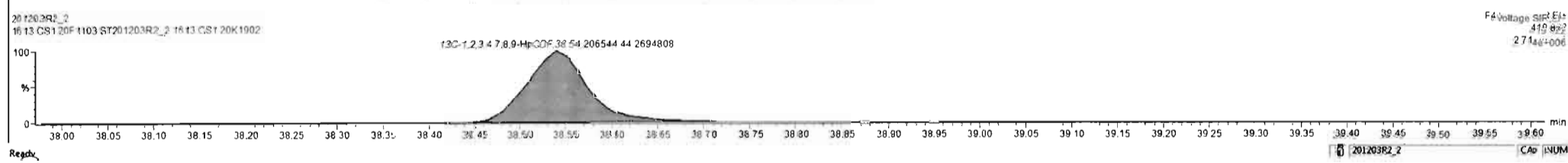
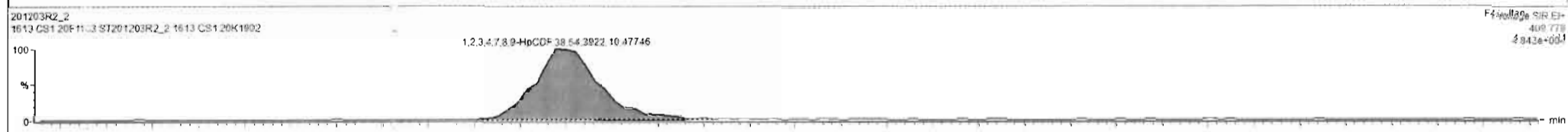
13C-1,2,3,4,6,7,8-HpCDF



DPE4



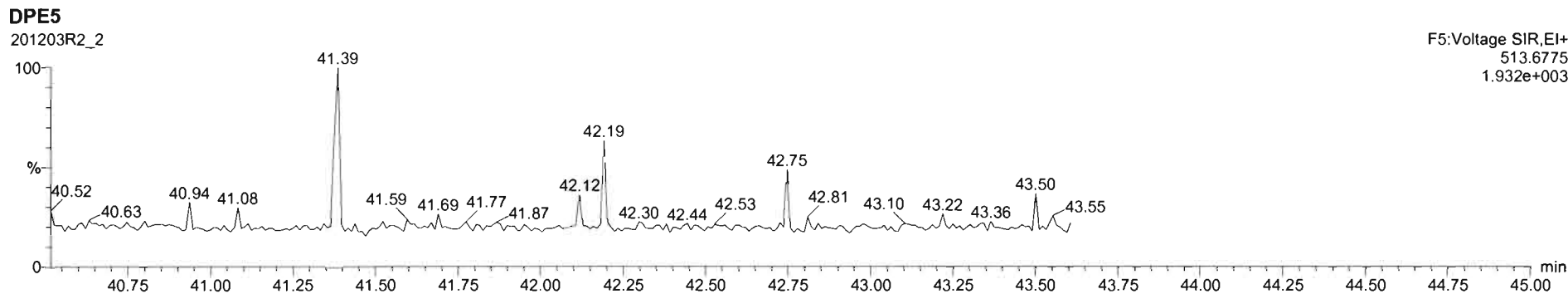
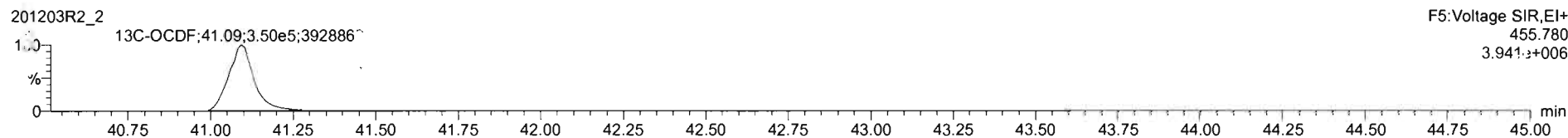
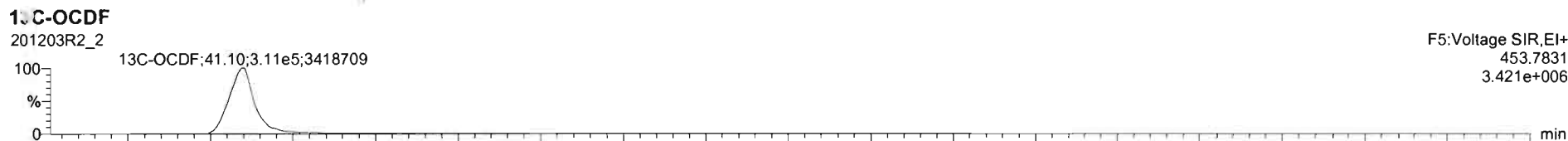
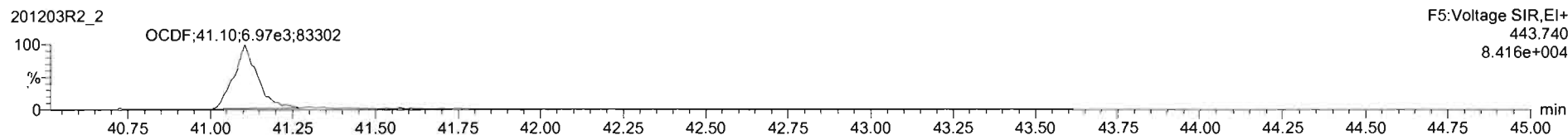
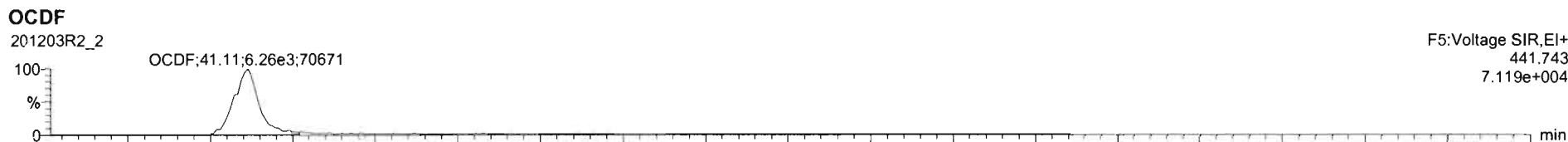
Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
16 1,2,3,4,7,8,9-HpCDF	7.84e3	1.00	NO	1.18	1.000	38.55	1.000	2.27	90.9	0.0487	2.27
17 OCDF	1.32e4	0.90	NO	0.90	1.000	41.11	1.000	4.46	89.3	0.0626	4.46
18 13C-2,3,7,8-TCDD	7.75e5	0.75	NO	1.06	1.000	25.98	1.031	90.5	90.5	0.123	
19 13C-1,2,3,7,8-PeCDD	5.51e5	0.63	NO	0.78	1.000	30.73	1.219	86.6	86.6	0.158	
20 13C-1,2,3,4,7,8-HxCDD	3.81e5	1.27	NO	0.62	1.000	34.6	1.014	80.5	80.5	0.261	
21 13C-1,2,3,6,7,8-HxCDD	4.55e5	1.28	NO	0.73	1.000	34.16	1.017	89.4	89.4	0.221	
22 13C-1,2,3,7,8,9-HxCDD	4.56e5	1.26	NO	0.72	1.000	34.43	1.025	91.0	91.0	0.224	
23 13C-1,2,3,4,6,7,8-HpCDD	3.37e5	1.05	NO	0.57	1.000	37.91	1.129	85.5	85.5	0.396	
24 13C-OCDD	5.80e5	0.88	NO	0.50	1.000	40.81	1.215	159	159	0.384	
25 13C-2,3,7,8-TCDF	1.14e6	0.79	NO	0.92	1.000	25.28	1.003	81.6	81.6	0.105	
26 13C-1,2,3,7,8-PeCDF	8.48e5	1.60	NO	0.72	1.000	29.48	1.169	87.3	87.3	0.328	
27 13C-2,3,4,7,8-PeCDF	8.14e5	1.59	NO	0.69	1.000	30.17	1.211	87.1	87.1	0.340	
28 13C-1,2,3,4,7,8-HxCDF	5.49e5	0.51	NO	0.87	1.000	33.16	0.987	90.7	90.7	0.268	
29 13C-1,2,3,6,7,8-HxCDF	5.90e5	0.52	NO	0.93	1.000	33.26	0.991	91.0	91.0	0.251	



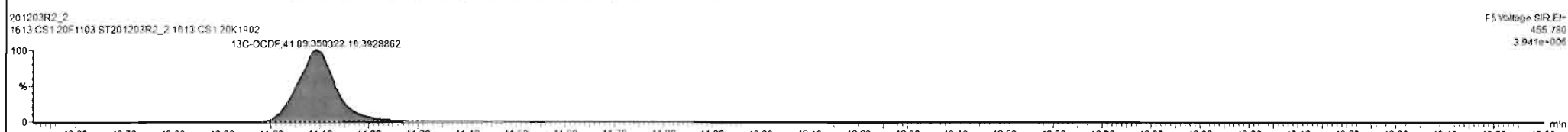
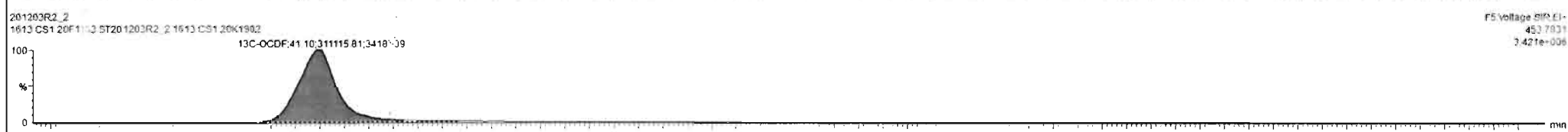
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103



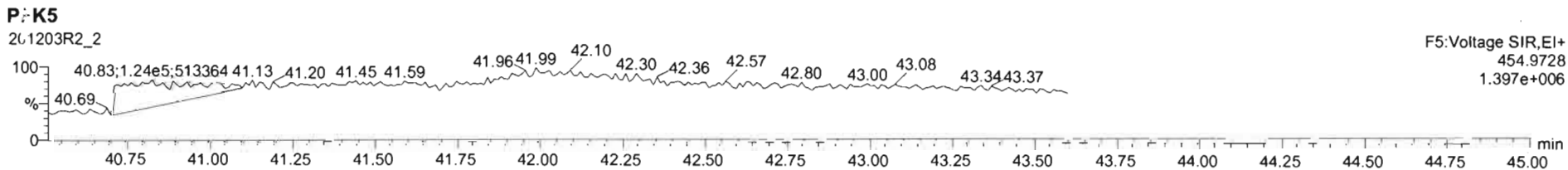
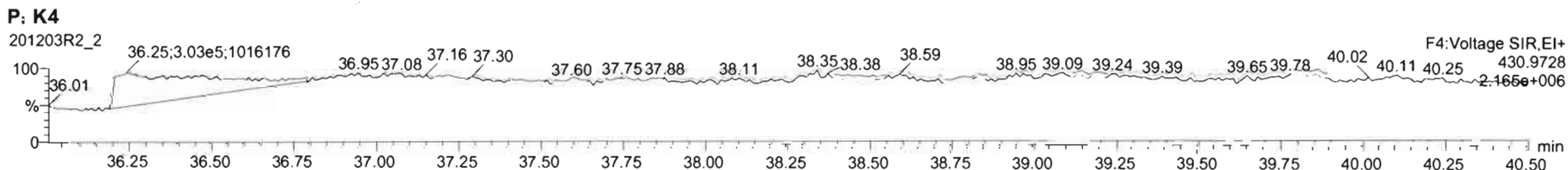
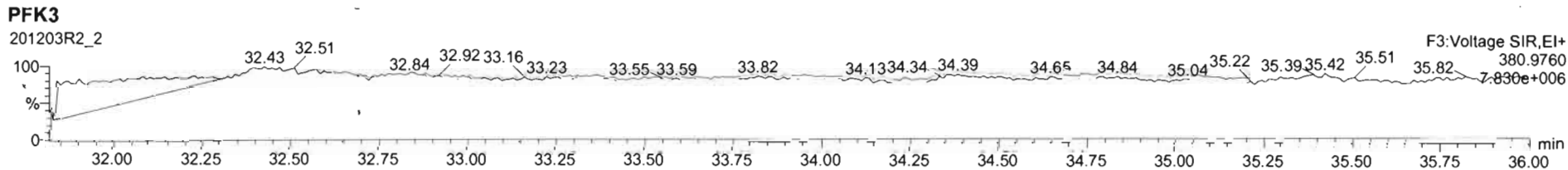
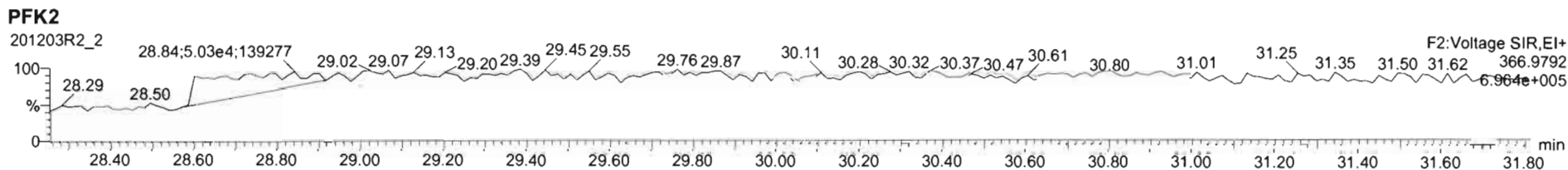
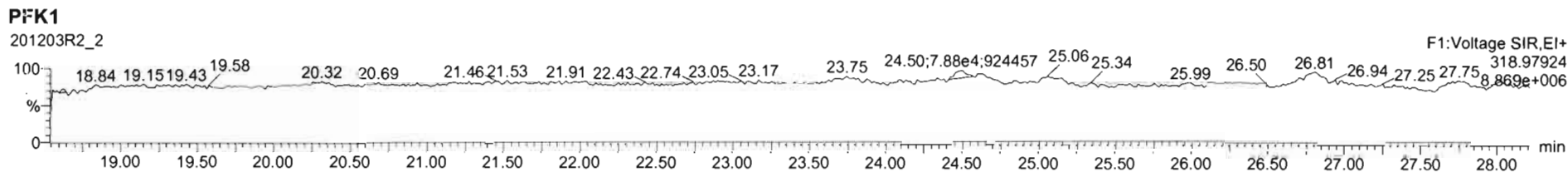
Name	Resp	RA	n/y	RRF	wf/wf	RT	RRT	Conc.	%Rec	DL	EMPC
16 1,2,3,4,7,8,9-HpCDF	7.84e3	1.00	NO	1.18	1.000	38.55	1.000	2.27	90.9	0.0487	2.27
17 OCDF	1.32e4	0.90	NO	0.90	1.000	41.11	1.000	4.46	89.3	0.0626	4.46
18 13C-2,3,7,8-TCDD	7.75e5	0.78	NO	1.06	1.000	25.18	1.021	90.5	90.5	0.123	
19 13C-1,2,3,7,8-PeCDD	5.51e5	0.63	NO	0.78	1.000	30.73	1.219	86.6	86.6	0.158	
20 13C-1,2,3,4,7,8-HxCDD	3.81e5	1.27	NO	0.62	1.000	34.04	1.014	82.5	88.5	0.261	
21 13C-1,2,3,6,7,8-HxCDD	4.55e5	1.28	NO	0.73	1.000	34.16	1.017	89.4	89.4	0.221	
22 13C-1,2,3,7,8,9-HxCDD	4.56e5	1.26	NO	0.72	1.000	34.43	1.025	91.0	91.0	0.224	
23 13C-1,2,3,4,6,7,8-HxCDD	3.37e5	1.05	NO	0.57	1.000	37.91	1.129	85.5	85.5	0.398	
24 13C-OCDD	5.80e5	0.88	NO	0.90	1.000	40.81	1.215	169	34.3	0.388	
25 13C-2,3,7,8-TCDF	1.14e6	0.79	NO	0.92	1.000	25.28	1.003	91.6	91.6	0.105	
26 13C-1,2,3,7,8-PeCDF	8.48e5	1.60	NO	0.72	1.000	29.48	1.169	87.3	87.3	0.328	
27 13C-2,3,4,7,8-PeCDF	8.14e5	1.59	NO	0.69	1.000	30.53	1.211	87.1	87.1	0.340	
28 13C-1,2,3,4,7,8-HxCDF	5.49e5	0.51	NO	0.87	1.000	33.14	0.987	90.7	90.7	0.268	
29 13C-1,2,3,6,7,8-HxCDF	5.90e5	0.52	NO	0.93	1.000	33.28	0.991	91.0	91.0	0.251	



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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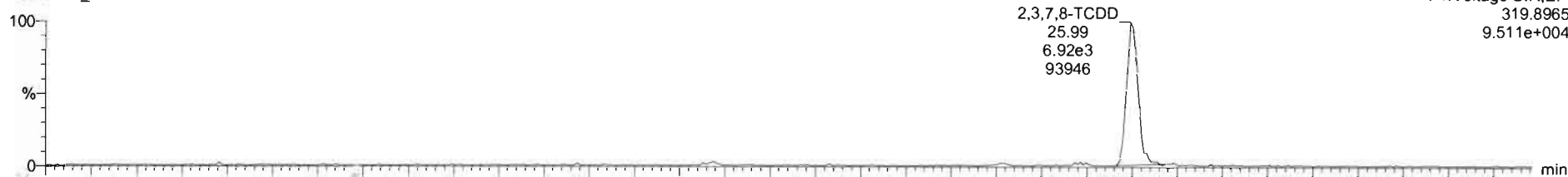
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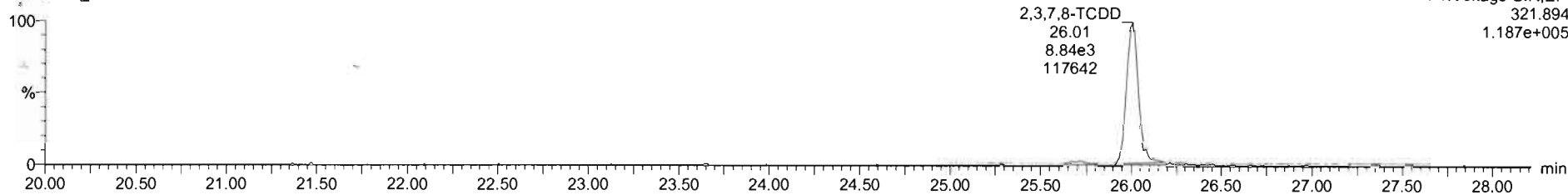
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2,3,7,8-TCDD

201203R2_3

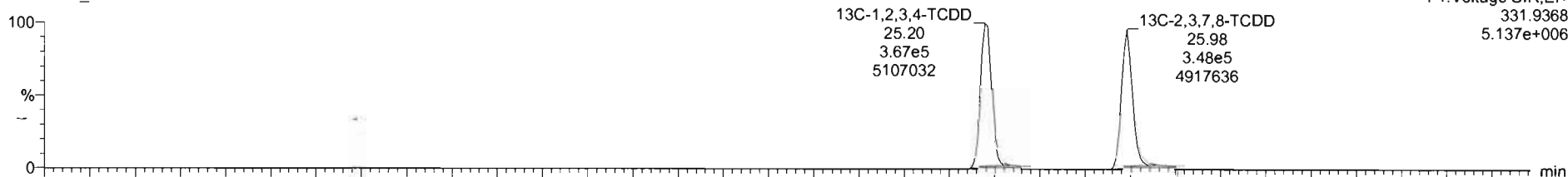


201203R2_3

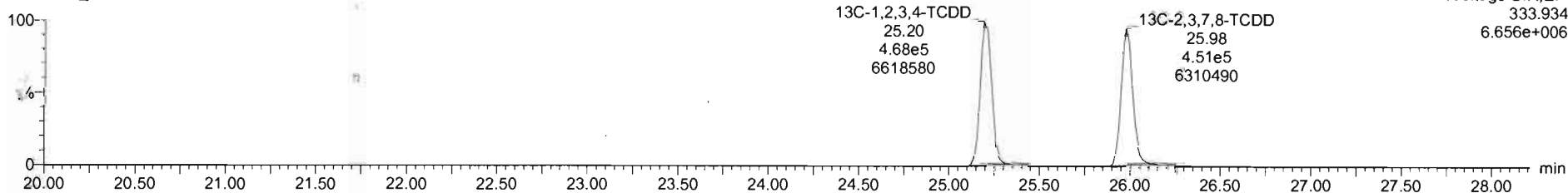


13C-2,3,7,8-TCDD

201203R2_3



201203R2_3



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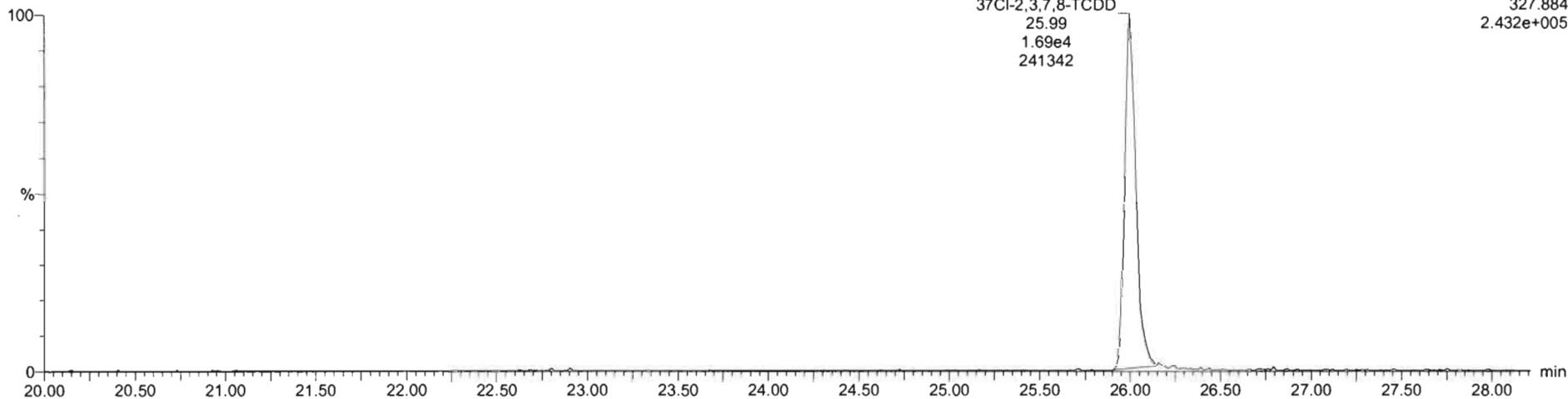
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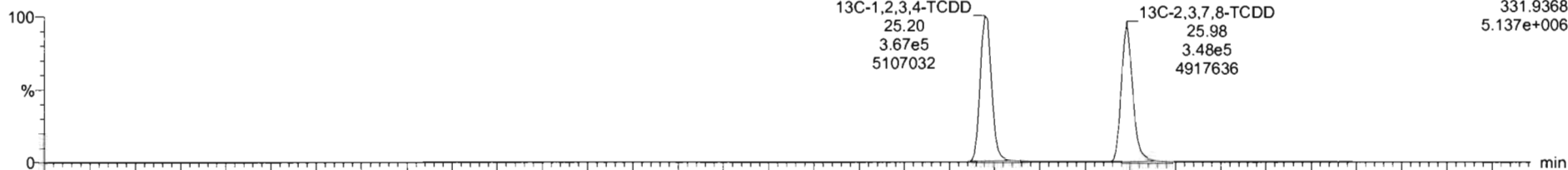
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201203R2_3

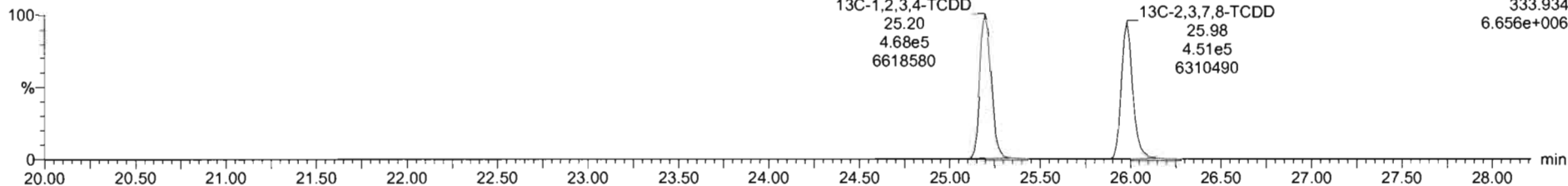


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201203R2_3



201203R2_3



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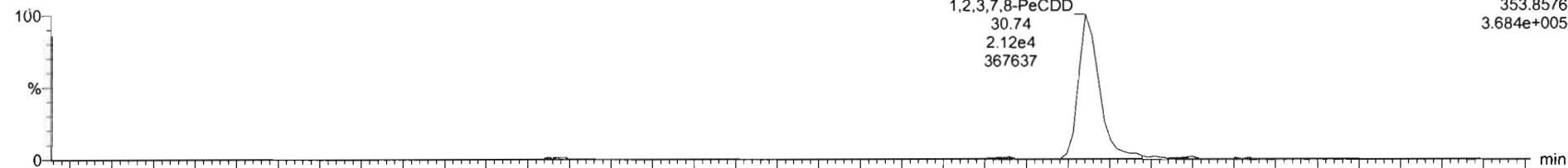
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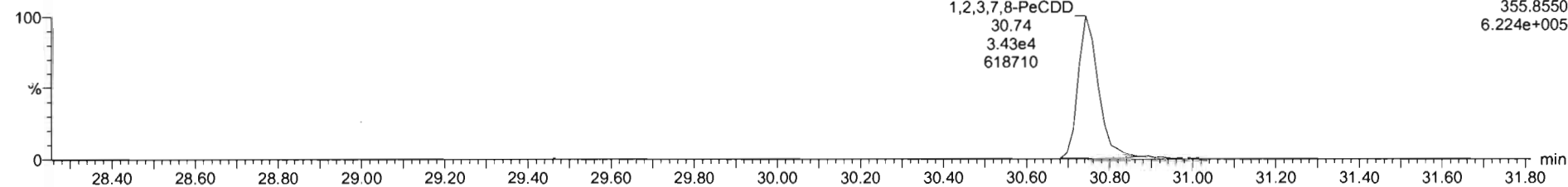
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1,2,3,7,8-PeCDD

201203R2_3

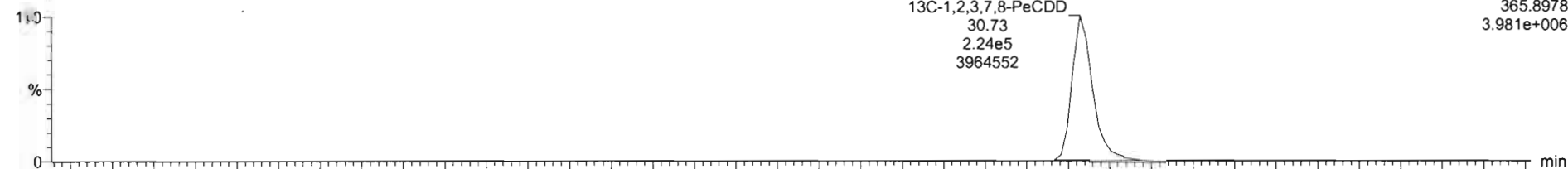


201203R2_3

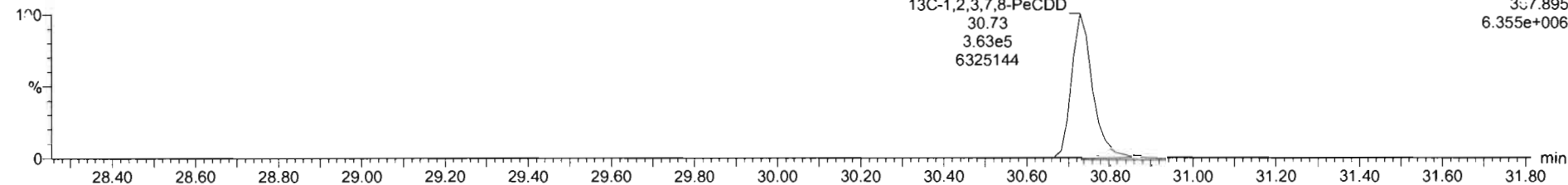


13C-1,2,3,7,8-PeCDD

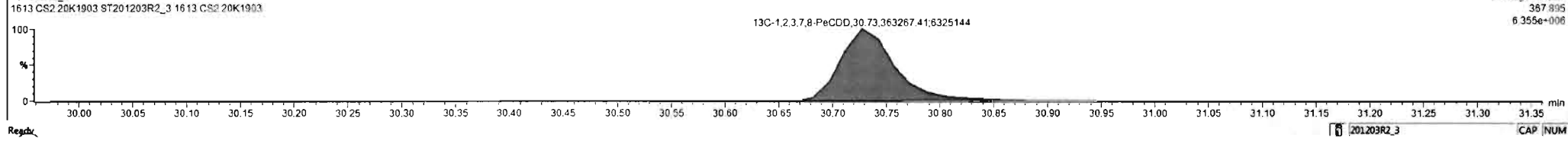
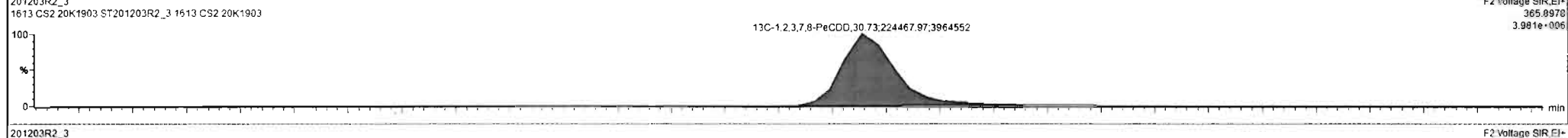
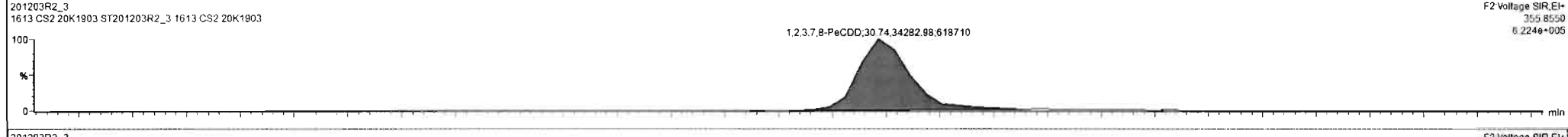
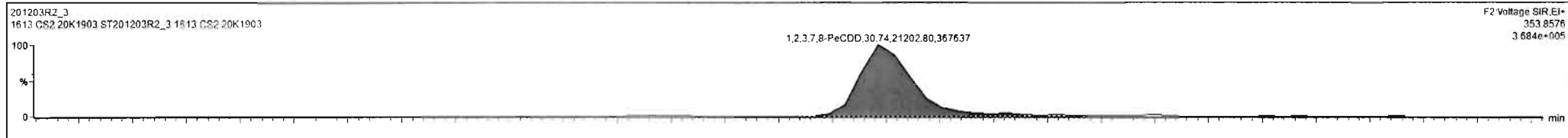
201203R2_3



201203R2_3



#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.05e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.08e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	1,2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	96.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	1,2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.83	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	1,2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO



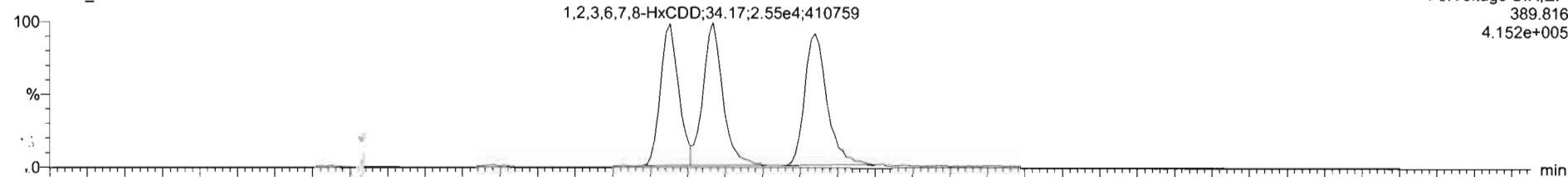
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

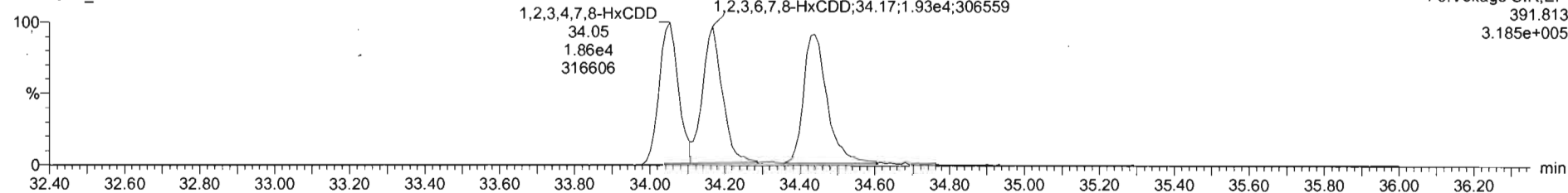
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1,2,3,4,7,8-HxCDD

201203R2_3

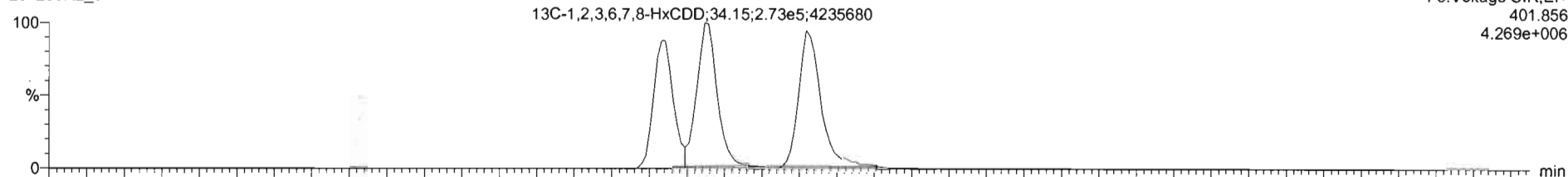


201203R2_3

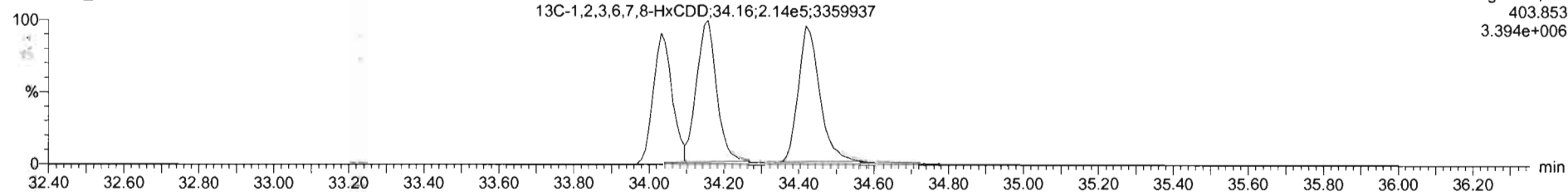


13C-1,2,3,4,7,8-HxCDD

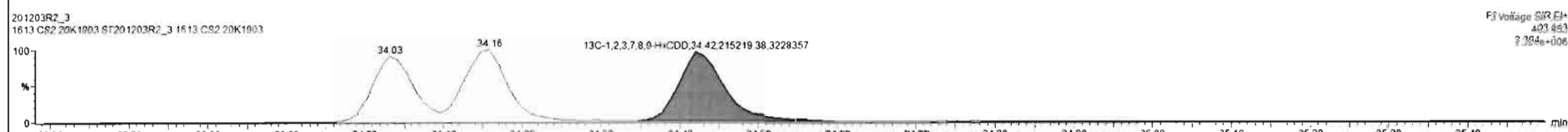
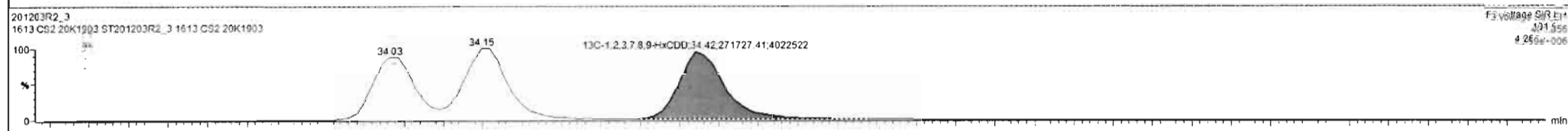
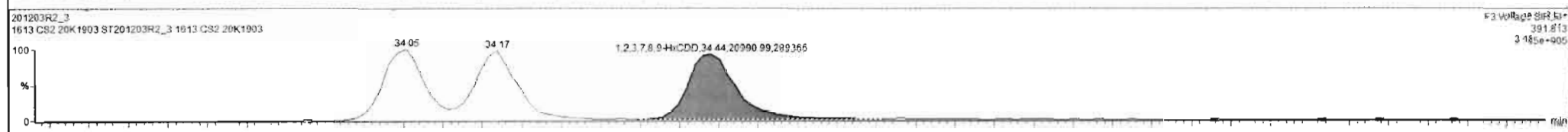
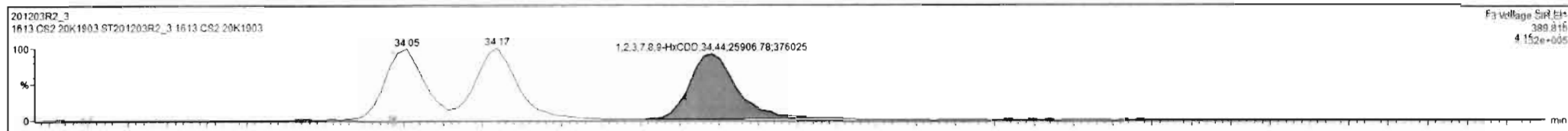
201203R2_3



201203R2_3



#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9005	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.86e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.89e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,8,9-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	1,2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	96.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	1,2,3,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	1,2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9868	34.92	34.94	NO	1.000	1.001	10.1	101	NO



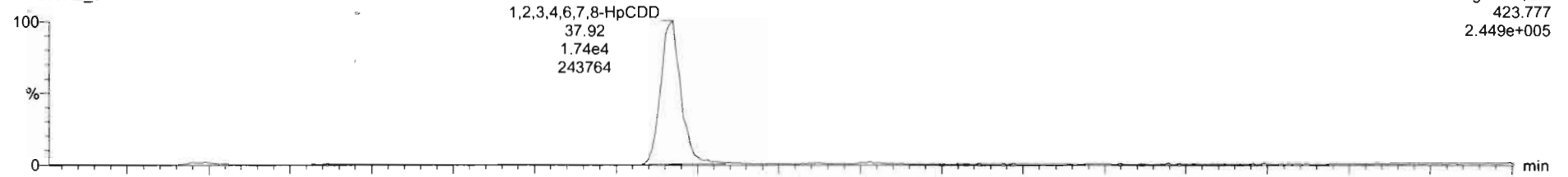
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

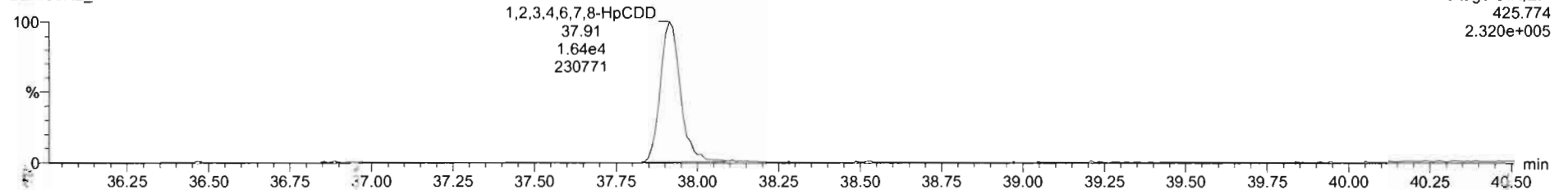
1,2,3,4,6,7,8-HpCDD

201203R2_3



F4:Voltage SIR, EI+
423.777
2.449e+005

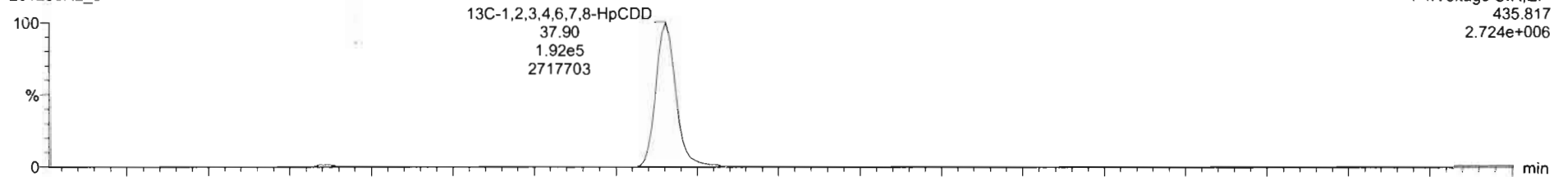
201203R2_3



F4:Voltage SIR, EI+
425.774
2.320e+005

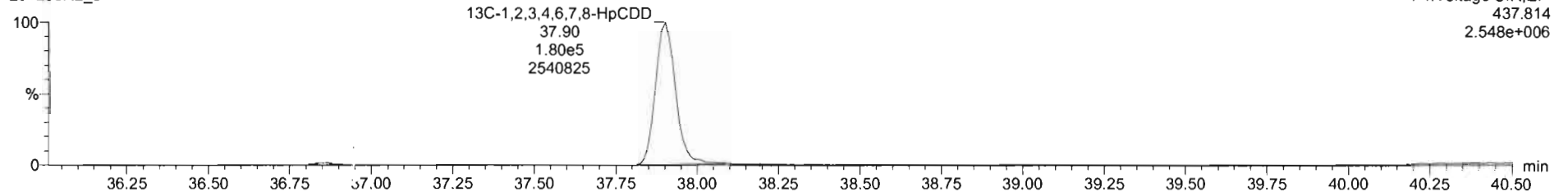
13C-1,2,3,4,6,7,8-HpCDD

201203R2_3



F4:Voltage SIR, EI+
435.817
2.724e+006

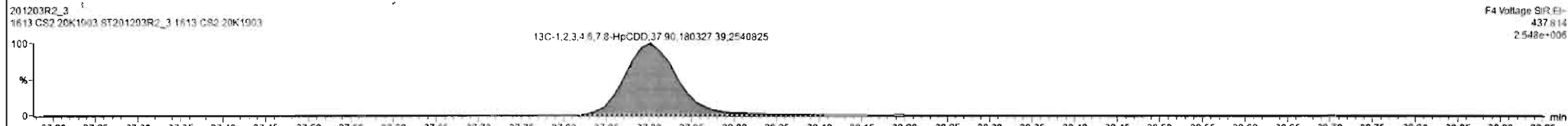
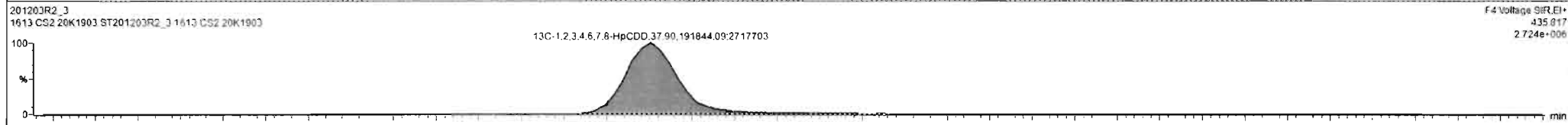
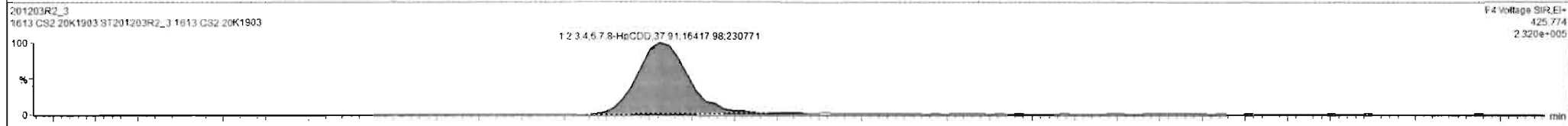
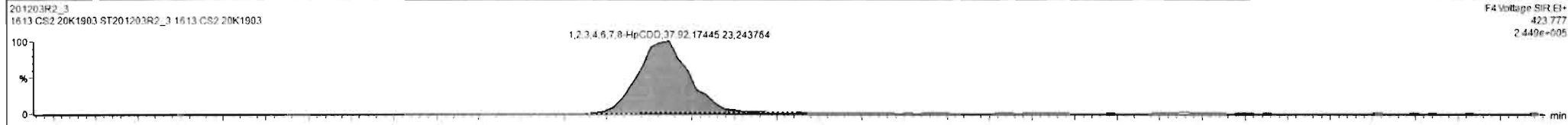
201203R2_3



F4:Voltage SIR, EI+
437.814
2.548e+006

201203R2_3 - ST201203R2_3 1613 CS2 20K1903 . 1613 CS2 20K1903

#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9005	26.01	26.99	NO	1.001	1.001	2.91	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDF	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	96.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO

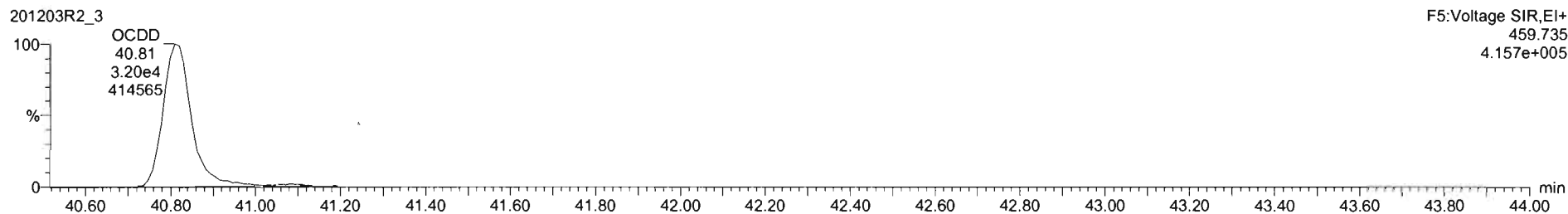
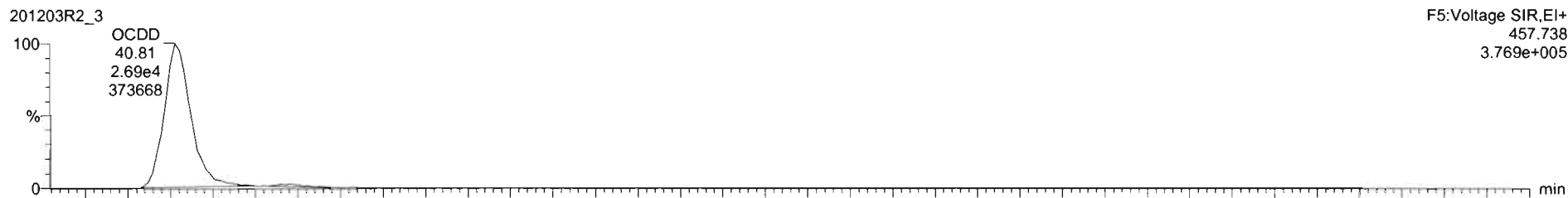


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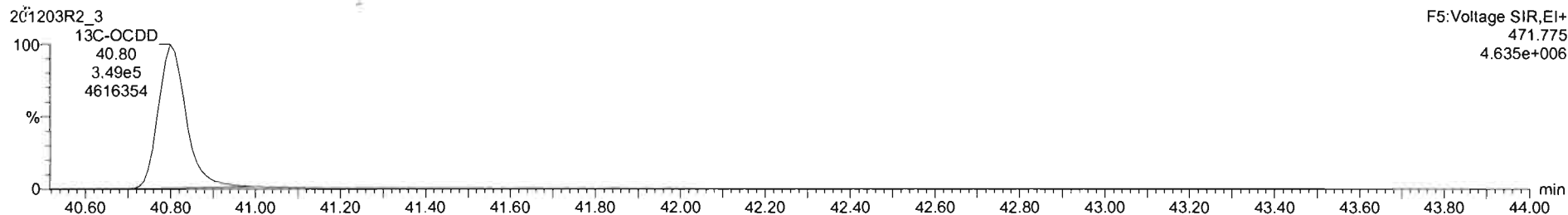
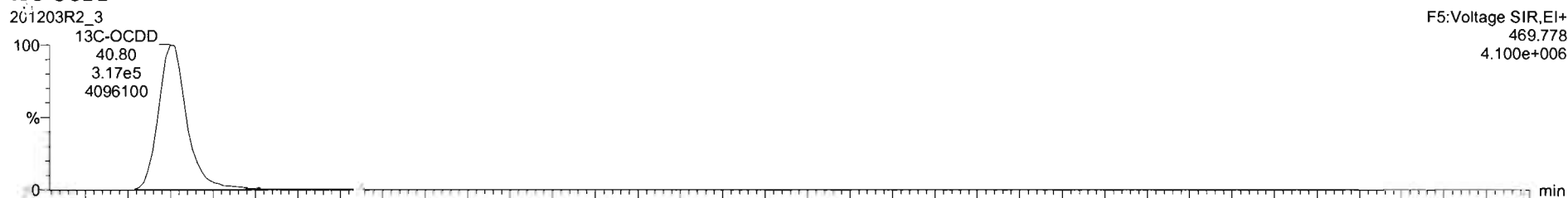
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

OCDD

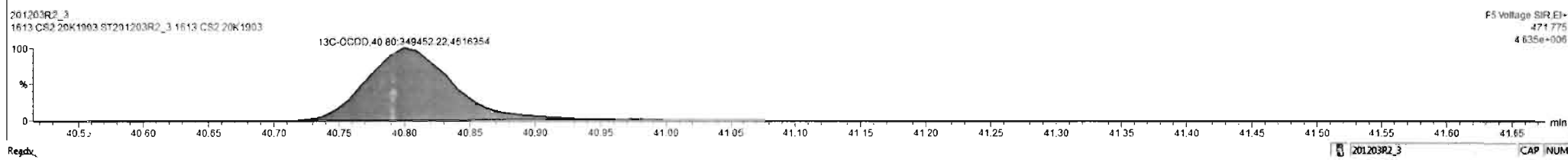
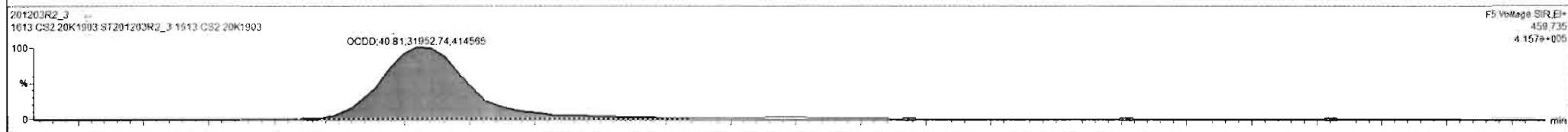


¹³C-OCDD



201203R2_3 - ST201203R2_3 1613 CS2 20K1903 1613 CS2 20K1903

#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.08	NO	0.9190	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.9858	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8460	25.29	25.30	NO	1.000	1.001	1.92	99.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0871	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO



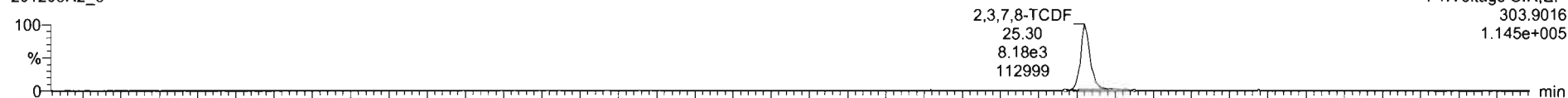
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

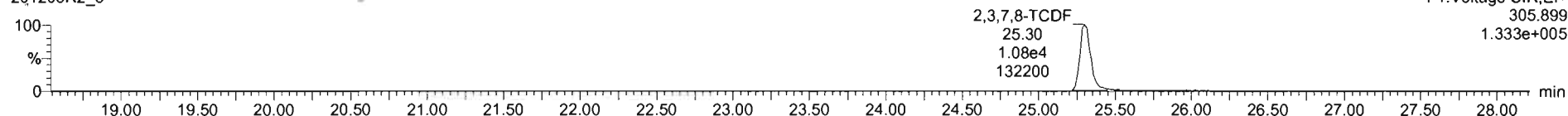
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2,3,7,8-TCDF

201203R2_3

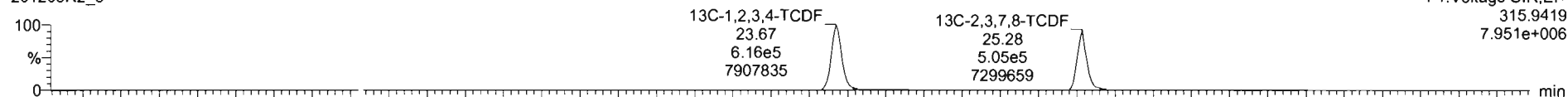


201203R2_3

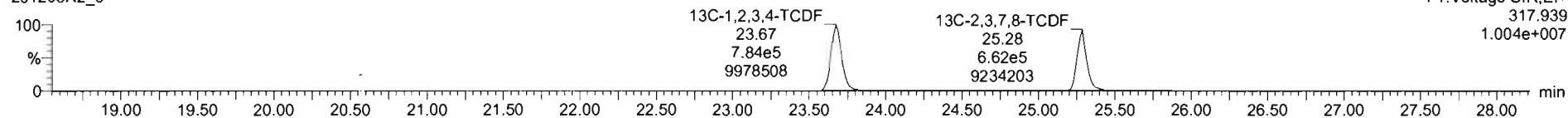


13C-2,3,7,8-TCDF

201203R2_3

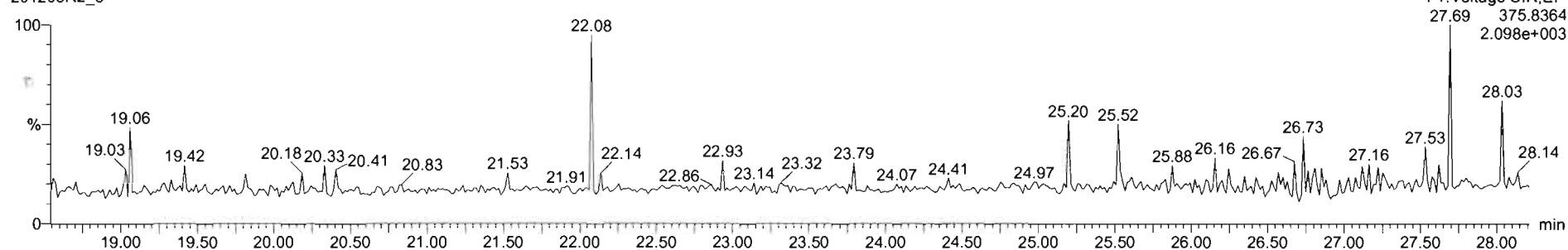


201203R2_3

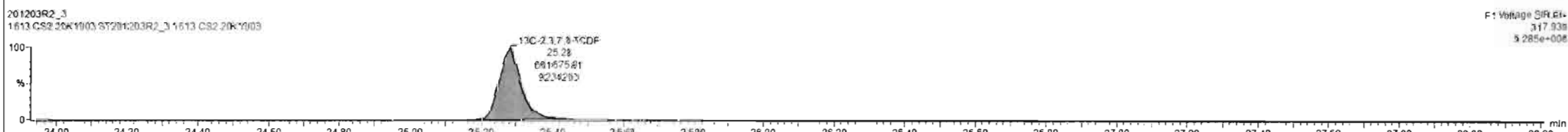
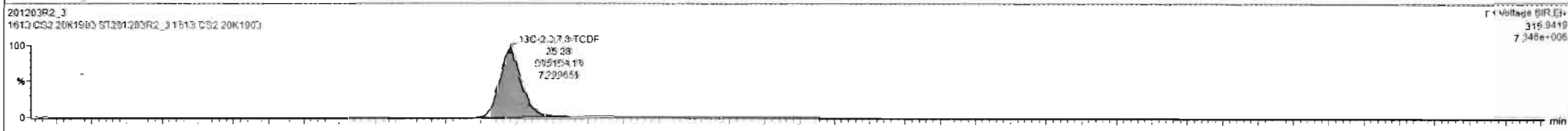
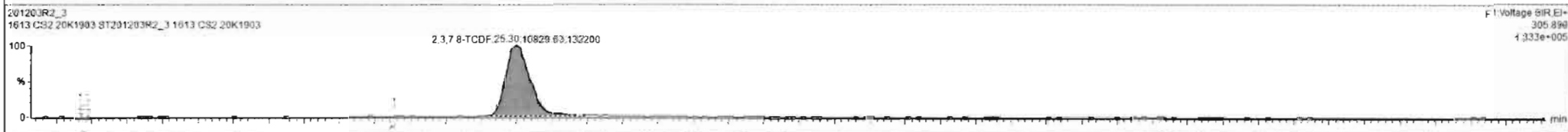


DPE1

201203R2_3



#	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	1.56e4	8.06e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	1.2400	25.29	25.30	NO	1.000	1.001	1.92	95.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0871	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.54e4	6.28e5	1.24	1.27	NO	1.0388	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	10.1	101	NO



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

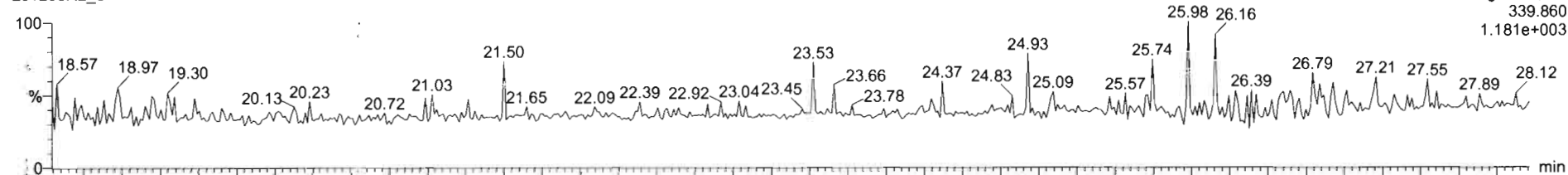
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

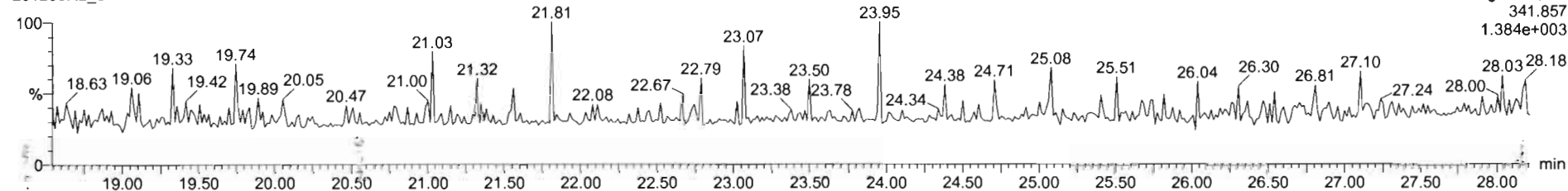
Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

1st Func. Penta-Furans

201203R2_3

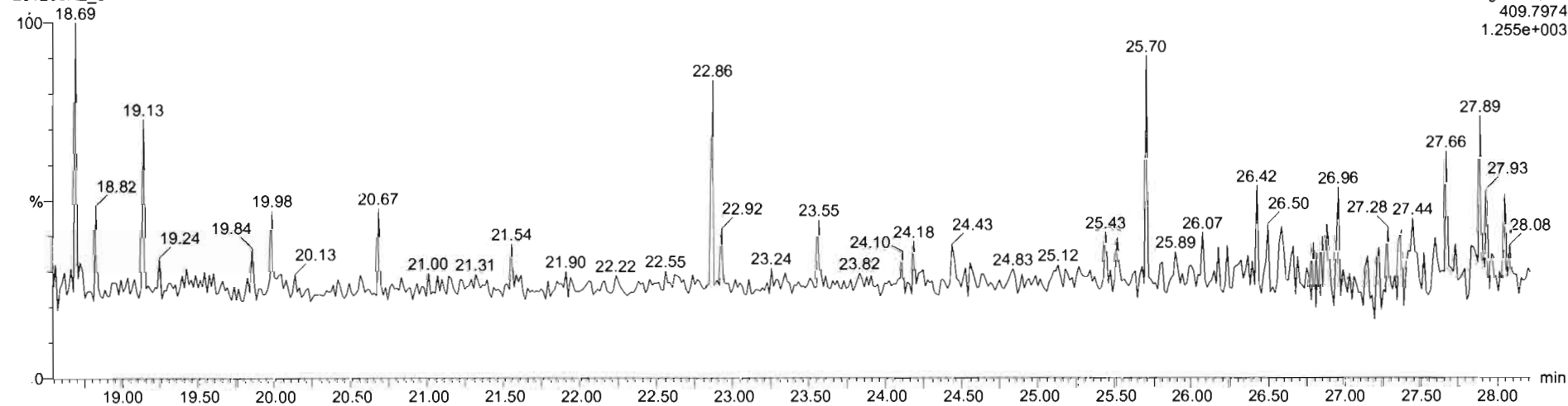


201203R2_3



DPE6

201203R2_3



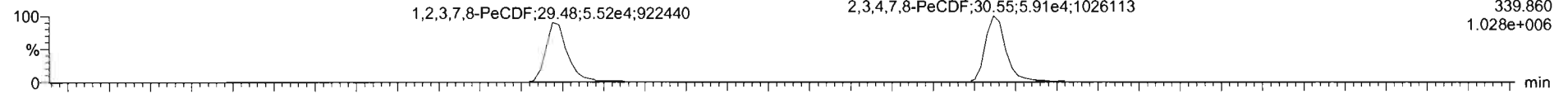
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

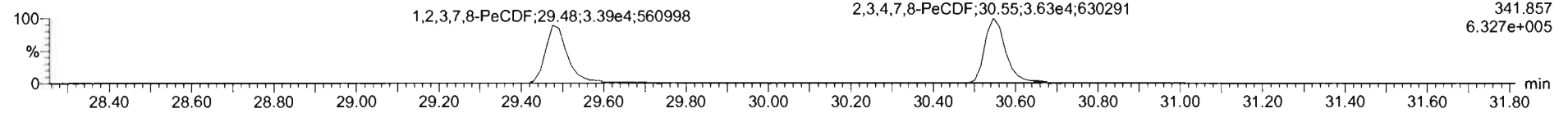
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1,2,3,7,8-PeCDF

201203R2_3

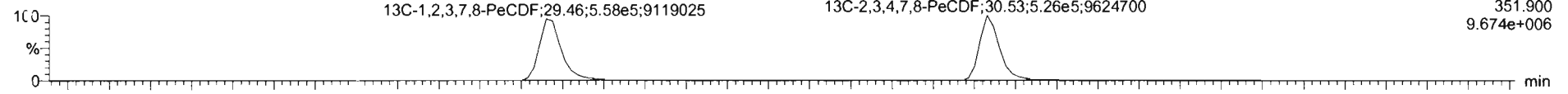


201203R2_3

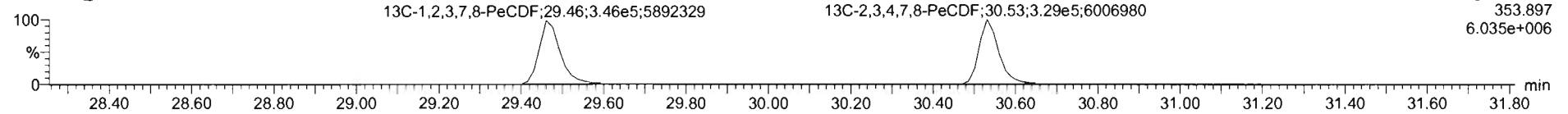


13C-1,2,3,7,8-PeCDF

201203R2_3

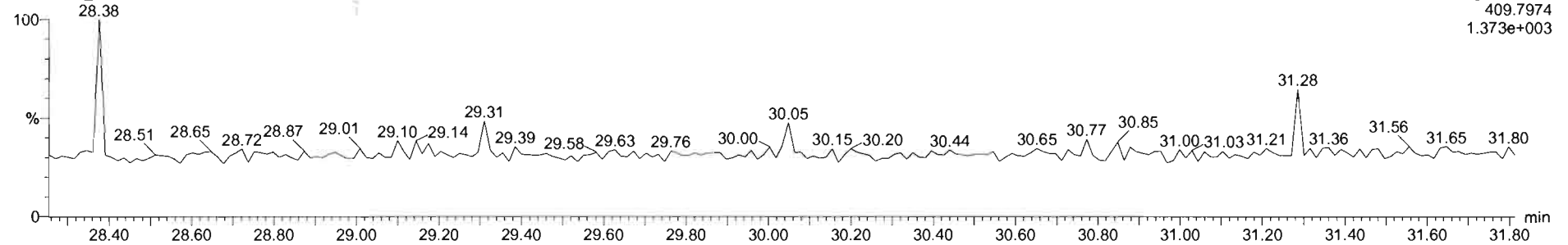


201203R2_3

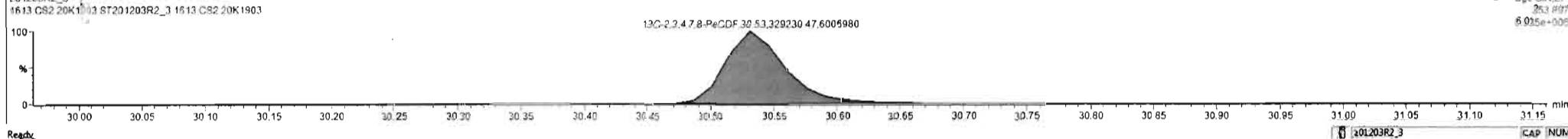
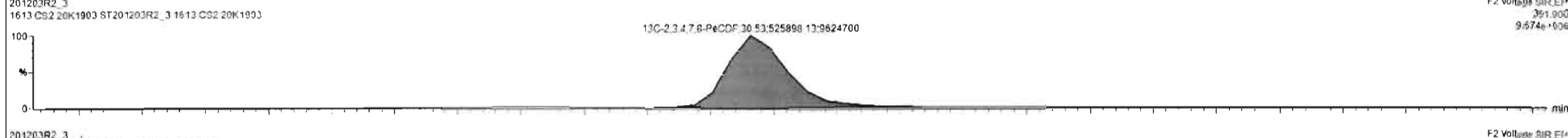
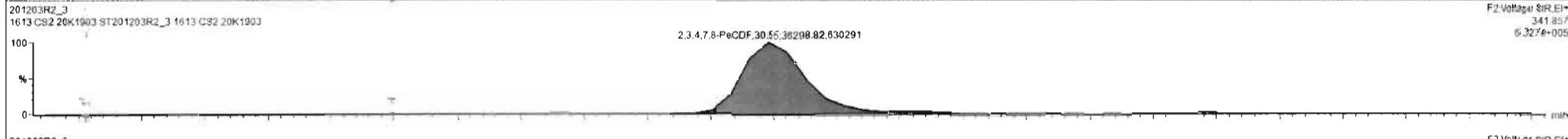
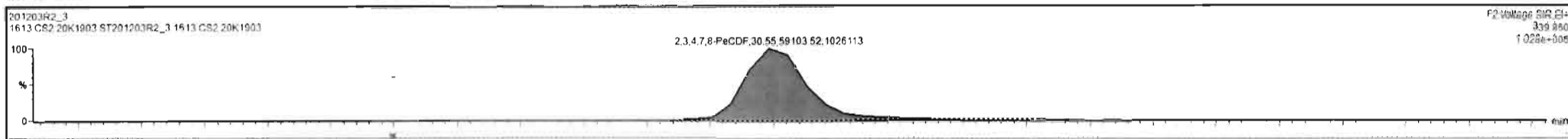


DPE2

201203R2_3



#	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	1.58e4	8.00e5	0.77	0.78	NO	0.9805	28.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,8,9-HxCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9190	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	98.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	1,2,3,4,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.6	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0368	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	1,2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9888	34.92	34.94	NO	1.000	1.001	12.1	101	NO



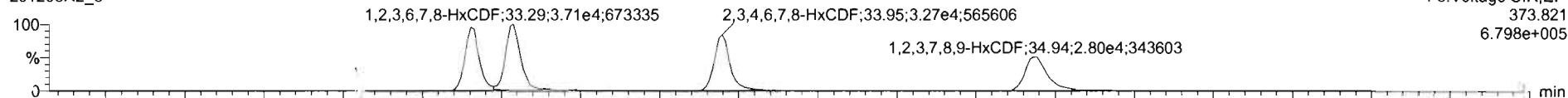
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

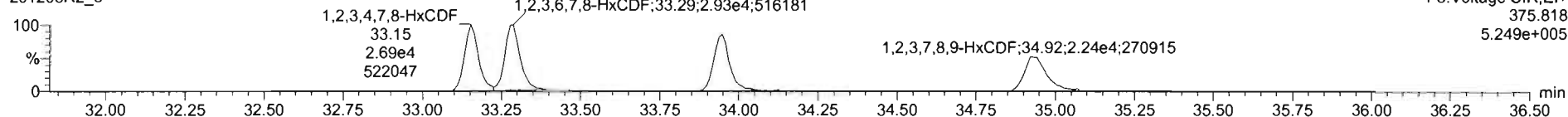
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1,2,3,4,7,8-HxCDF

201203R2_3

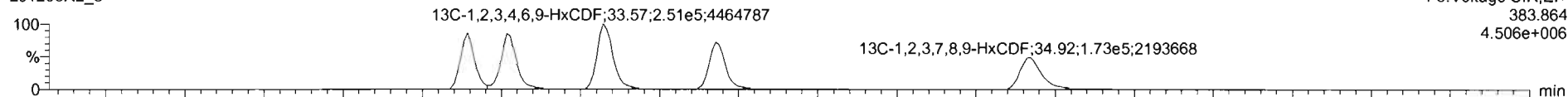


201203R2_3

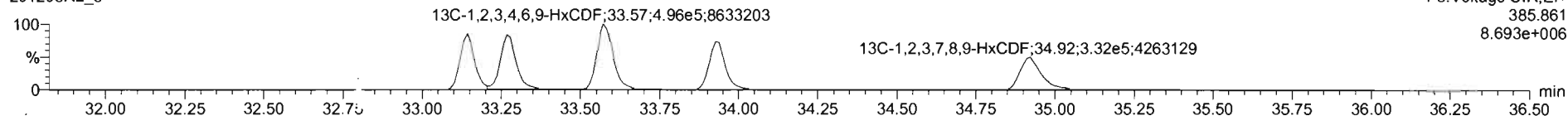


13C-1,2,3,4,7,8-HxCDF

201203R2_3

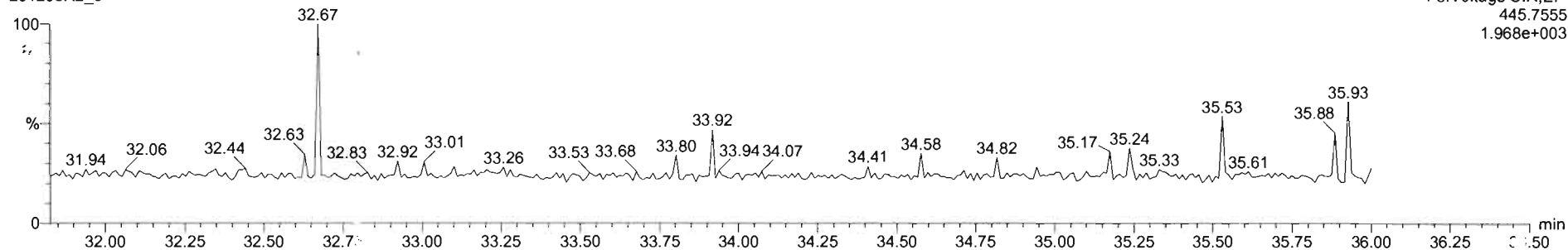


201203R2_3

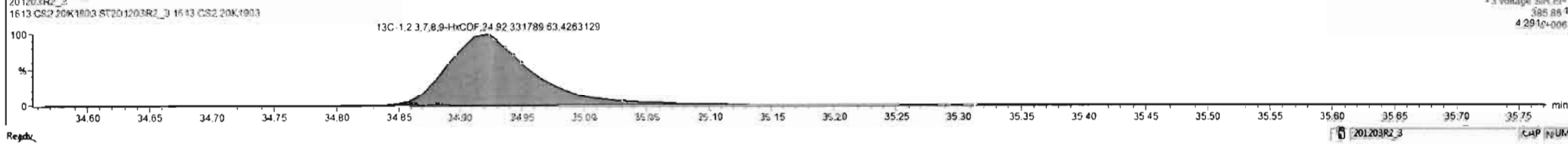


DPE3

201203R2_3



#	Name	Reso	IS Reso	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	1.58e4	8.00e5	0.77	0.78	NO	0.9905	26.01	25.99	NO	1.001	1.001	2.01	100	NO
2	1,2,3,7,8-PeCDD	5.55e4	5.88e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	10.1	101	NO
3	1,2,3,4,7,8-HxCDD	4.12e4	4.06e5	1.24	1.22	NO	1.0203	34.04	34.05	NO	1.000	1.001	9.96	99.6	NO
4	1,2,3,6,7,8-HxCDD	4.48e4	4.87e5	1.24	1.32	NO	0.9025	34.16	34.17	NO	1.000	1.001	10.2	102	NO
5	1,2,3,7,8,9-HxCDD	4.69e4	4.87e5	1.24	1.23	NO	0.9552	34.43	34.44	NO	1.000	1.001	10.1	101	NO
6	1,2,3,4,6,7,8-HpCDD	3.39e4	3.72e5	1.04	1.06	NO	0.9180	37.90	37.92	NO	1.000	1.001	9.91	99.1	NO
7	OCDD	5.89e4	6.66e5	0.89	0.84	NO	0.8658	40.80	40.81	NO	1.000	1.000	20.4	102	NO
8	2,3,7,8-TCDF	1.90e4	1.17e6	0.77	0.75	NO	0.8480	25.29	25.30	NO	1.000	1.001	1.92	96.0	NO
9	1,2,3,7,8-PeCDF	8.91e4	9.03e5	1.55	1.63	NO	0.9597	29.47	29.48	NO	1.000	1.000	10.3	103	NO
10	1,2,3,4,6,7,8-PeCDF	9.54e4	8.55e5	1.55	1.63	NO	1.0671	30.53	30.55	NO	1.000	1.000	10.5	105	NO
11	1,2,3,4,7,8-HxCDF	6.08e4	5.80e5	1.24	1.26	NO	0.9859	33.14	33.15	NO	1.000	1.000	10.8	106	NO
12	1,2,3,6,7,8-HxCDF	6.64e4	6.28e5	1.24	1.27	NO	1.0368	33.27	33.29	NO	1.000	1.001	10.2	102	NO
13	1,2,3,4,6,7,8-HxCDF	5.87e4	5.85e5	1.24	1.26	NO	1.0202	33.93	33.95	NO	1.000	1.001	10.2	102	NO
14	1,2,3,7,8,9-HxCDF	5.03e4	5.05e5	1.24	1.25	NO	0.9889	34.92	34.94	NO	1.000	1.001	10.1	101	NO

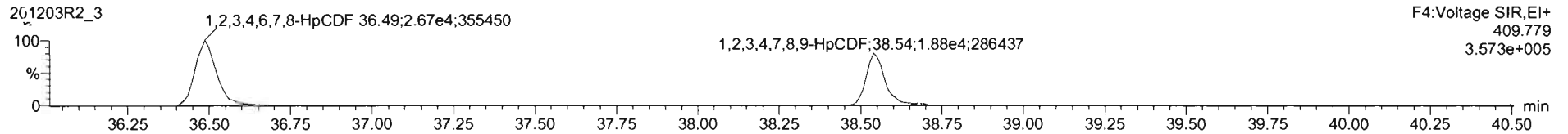
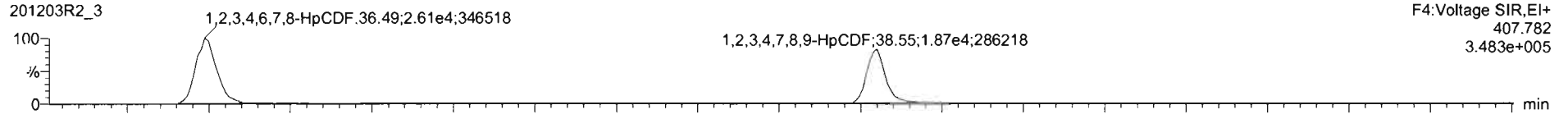


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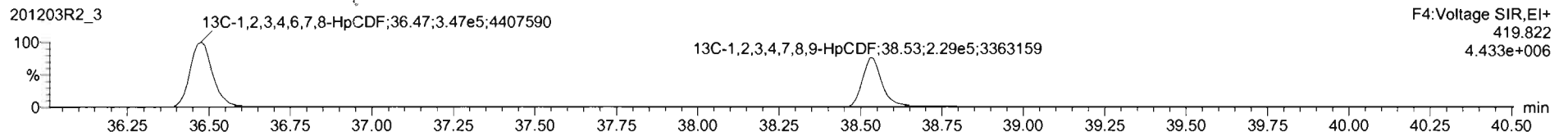
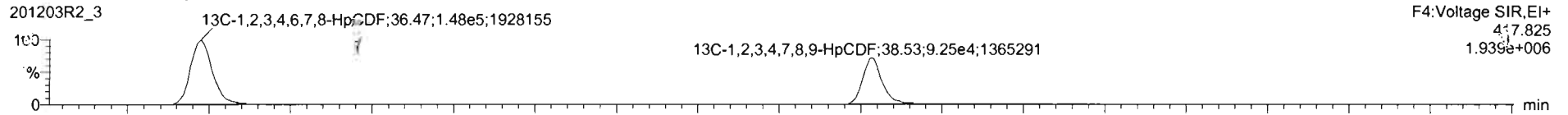
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Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

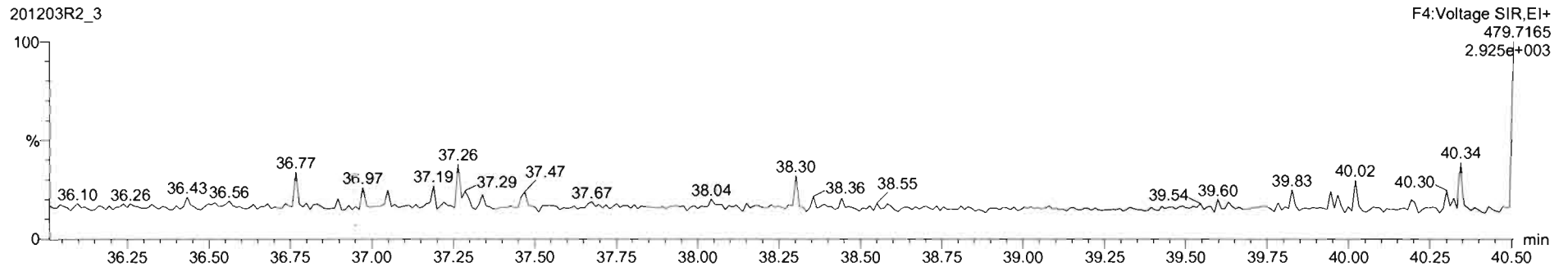
1,2,3,4,6,7,8-HpCDF



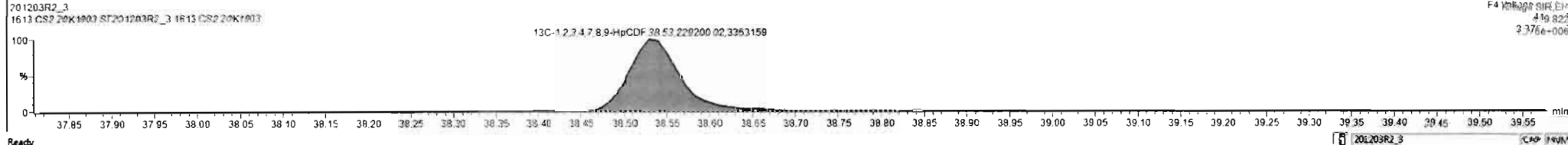
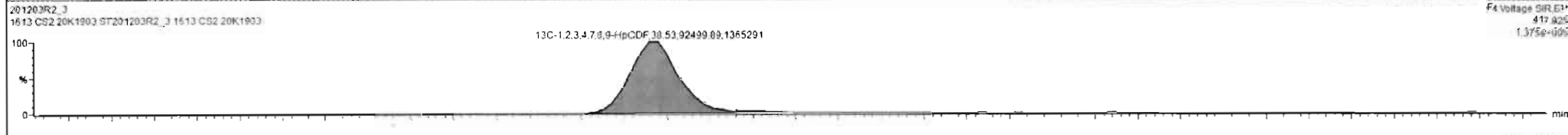
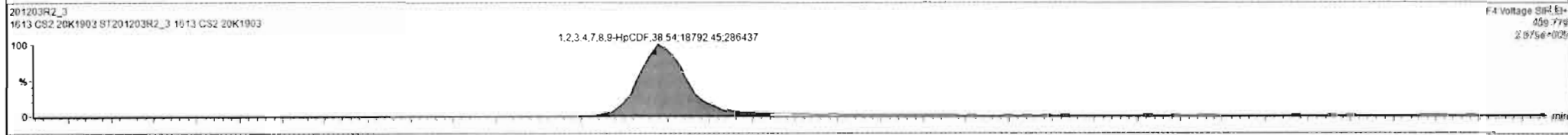
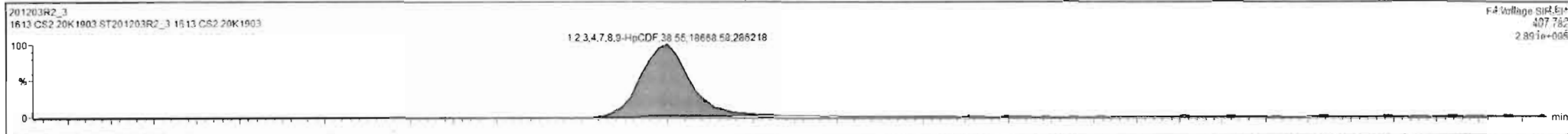
13C-1,2,3,4,6,7,8-HpCDF



DPE4



#	Name	Resp	IS Resp	Pred RA	RA	nly	RDF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
15	1,2,3,4,6,7,8-HpCDF	5.28e4	4.95e5	1.04	0.98	NO	1.0492	38.48	38.49	NO	1.000	1.000	10.2	102	NO
16	1,2,3,4,7,8,9-HpCDF	3.75e4	3.22e5	1.04	0.99	NO	1.1759	38.53	38.55	NO	1.000	1.001	9.90	99.0	NO
17	OCDF	8.64e4	7.40e5	0.89	0.86	NO	0.8960	41.09	41.10	NO	1.000	1.000	20.0	100	NO
18	13C-2,3,7,8-TCDD	8.00e5	8.35e5	0.77	0.77	NO	1.0555	25.95	25.98	NO	1.030	1.031	90.8	90.8	NO
19	13C-1,2,3,7,8-PeCDD	5.88e5	8.35e5	0.63	0.62	NO	0.7847	30.65	30.73	NO	1.216	1.219	89.8	89.8	NO
20	13C-1,2,3,4,7,8-HxCDD	4.09e5	7.47e5	1.24	1.27	NO	0.6205	34.04	34.03	NO	1.014	1.014	87.6	87.6	NO
21	13C-1,2,3,6,7,8-HxCDD	4.87e5	7.47e5	1.24	1.28	NO	0.7340	34.17	34.15	NO	1.019	1.017	88.8	88.8	NO
22	13C-1,2,3,7,8,9-HxCDD	4.87e5	7.47e5	1.24	1.26	NO	0.7225	34.42	34.42	NO	1.025	1.025	90.2	90.2	NO
23	13C-1,2,3,4,6,7,8-HpCDD	3.72e5	7.47e5	1.04	1.06	NO	0.5677	37.89	37.90	NO	1.129	1.129	87.6	87.6	NO
24	13C-OCDD	6.66e5	7.47e5	0.89	0.91	NO	0.4958	40.65	40.80	NO	1.217	1.215	180	90.0	NO
25	13C-2,3,7,8-TCDF	1.17e6	1.40e6	0.77	0.76	NO	0.9190	25.28	25.28	NO	1.003	1.003	90.7	90.7	NO
26	13C-1,2,3,7,8-PeCDF	9.03e5	1.40e6	1.55	1.61	NO	0.7151	29.39	29.46	NO	1.166	1.160	90.3	90.3	NO
27	13C-2,3,4,7,8-PeCDF	8.55e5	1.40e6	1.55	1.60	NO	0.8895	30.44	30.53	NO	1.208	1.212	88.8	88.8	NO
28	13C-1,2,3,4,7,8-HxCDF	5.80e5	7.47e5	0.51	0.50	NO	0.8734	33.13	33.14	NO	0.987	0.987	88.8	88.8	NO



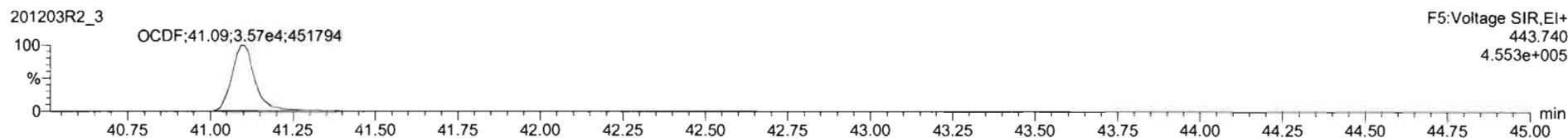
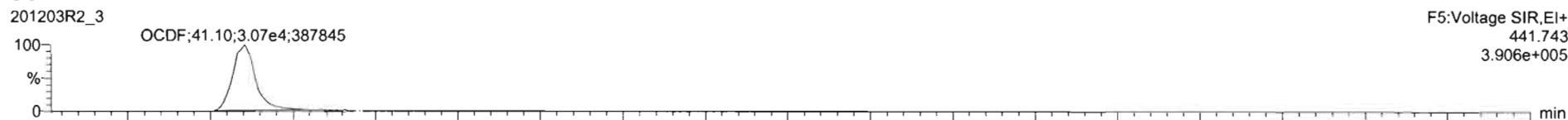
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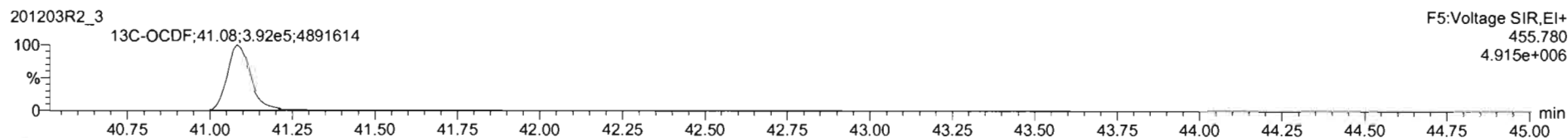
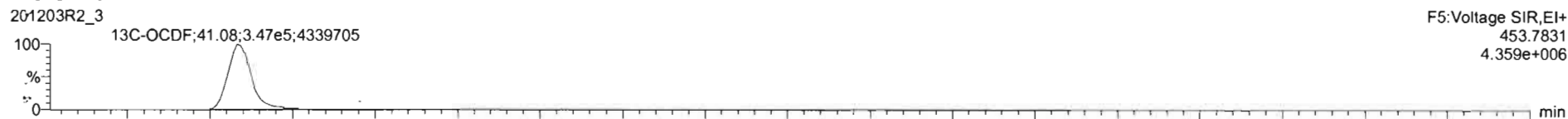
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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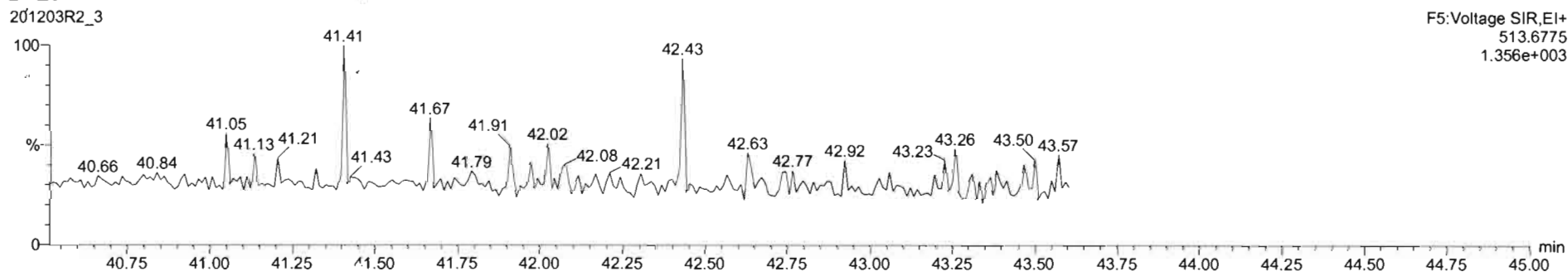
OCDF



¹³C-OCDF



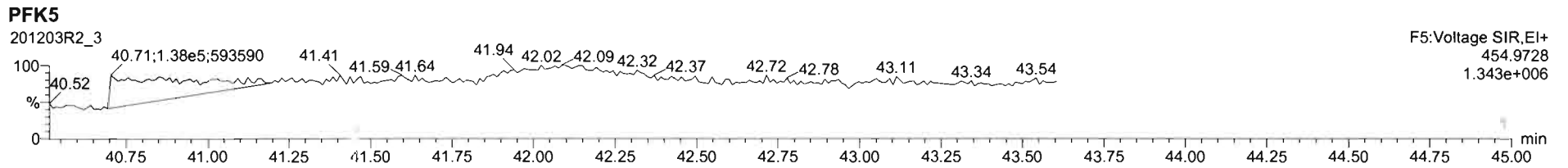
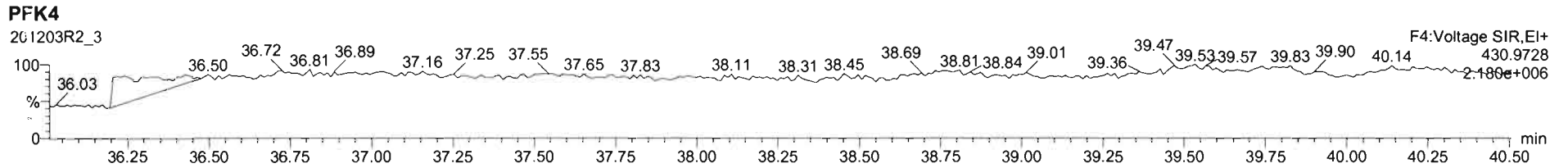
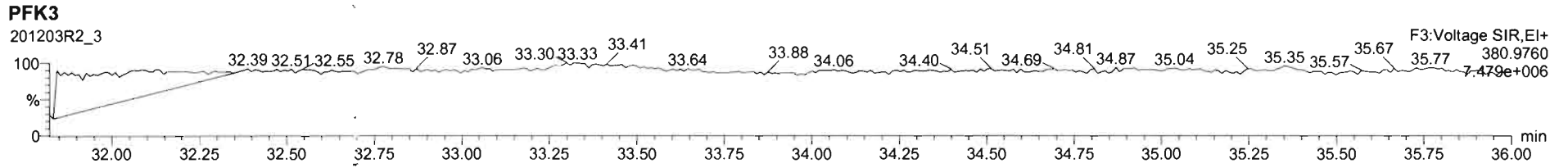
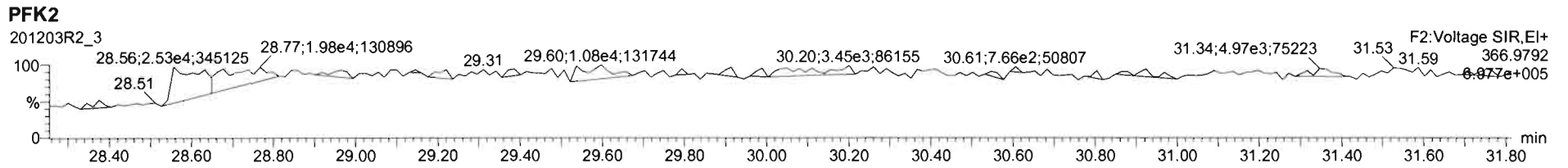
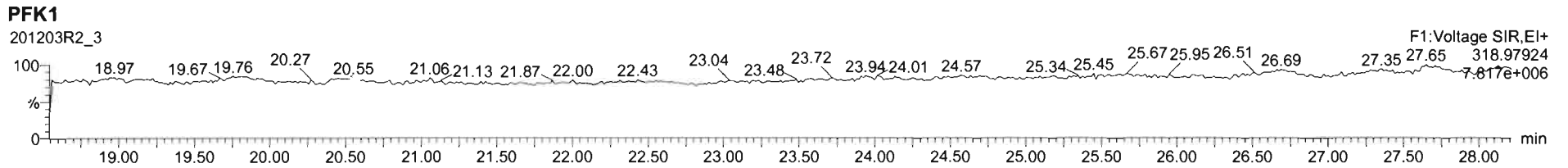
DPE5



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

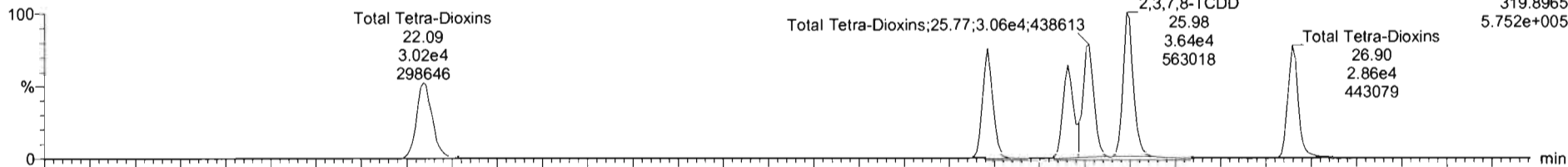
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

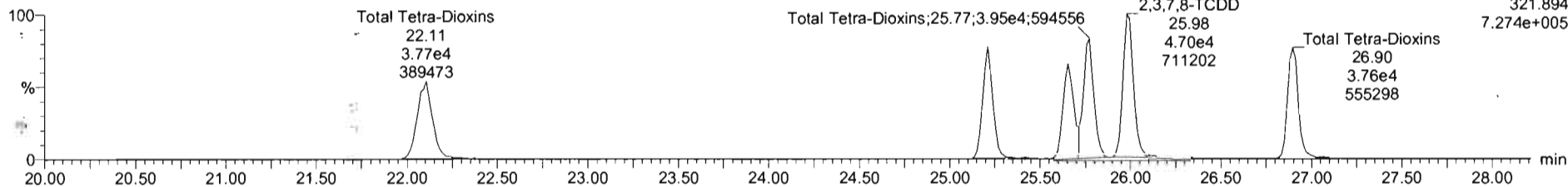
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD

201203R2_6

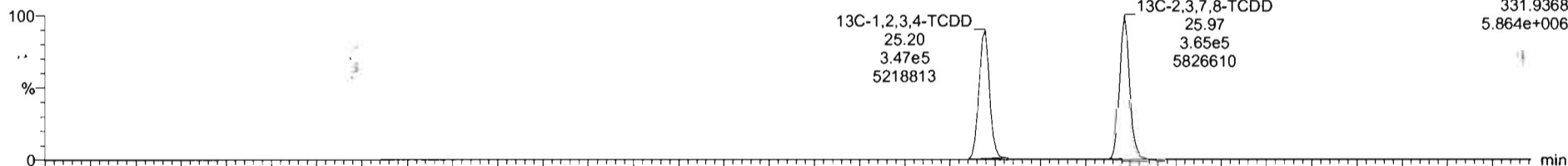


201203R2_6

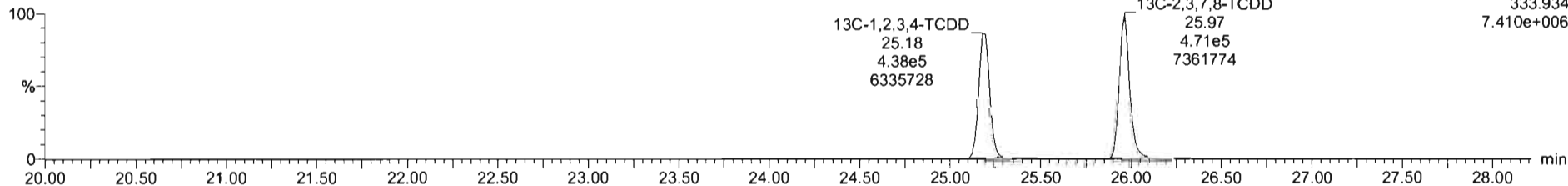


13C-2,3,7,8-TCDD

201203R2_6



201203R2_6



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

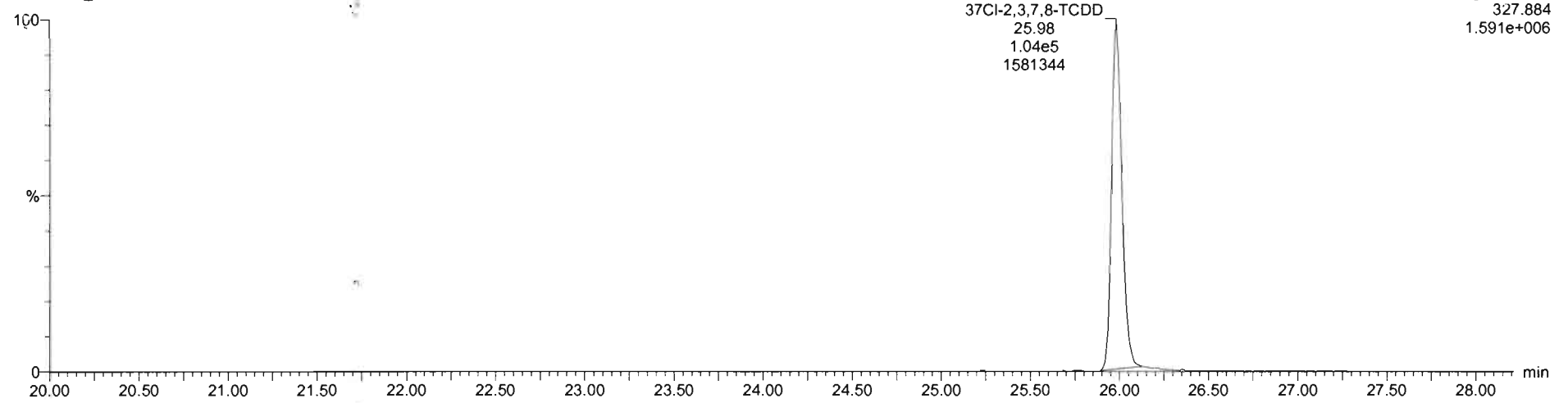
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

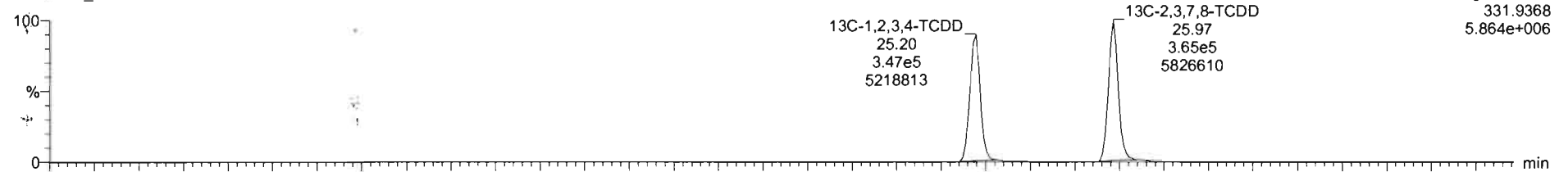
37Cl-2,3,7,8-TCDD

201203R2_6

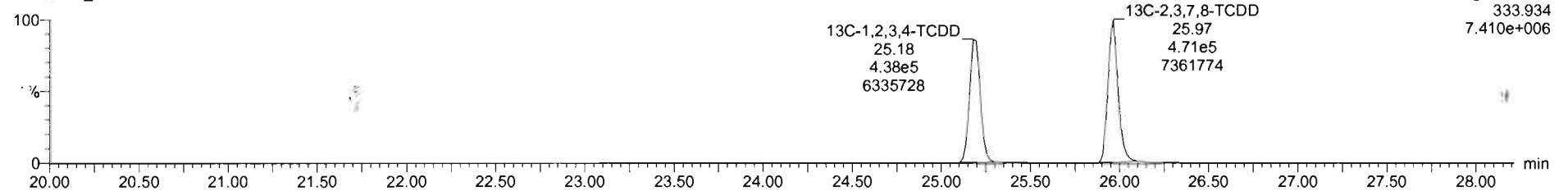


13C-1,2,3,4-TCDD

201203R2_6



201203R2_6



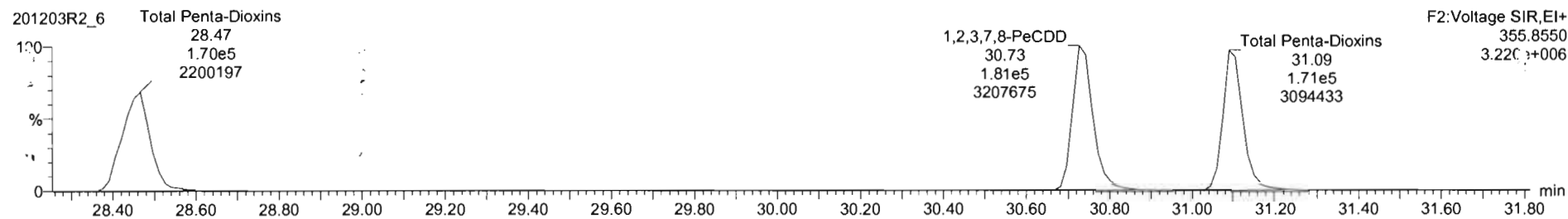
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

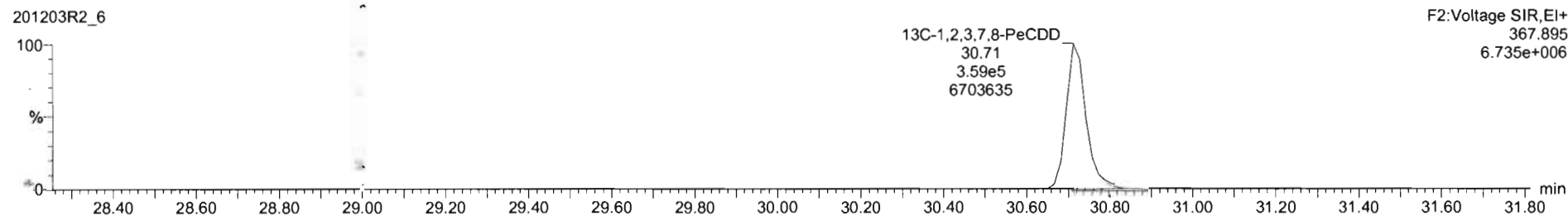
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,2,3,7,8-PeCDD



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



Dataset: Untitled

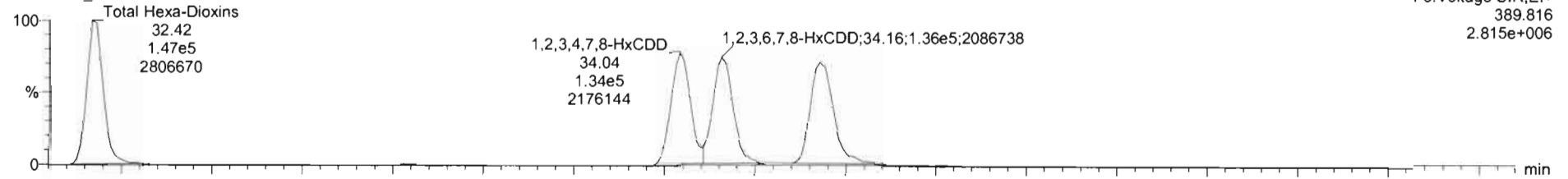
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Printed: Tuesday, December 08, 2020 09:16:39 Pacific Standard Time

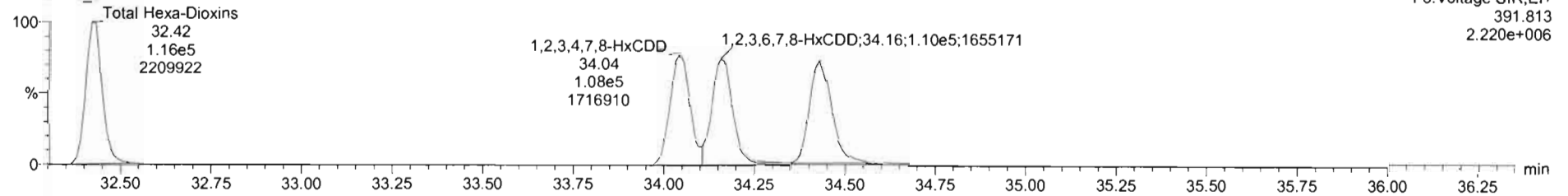
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201203R2_6

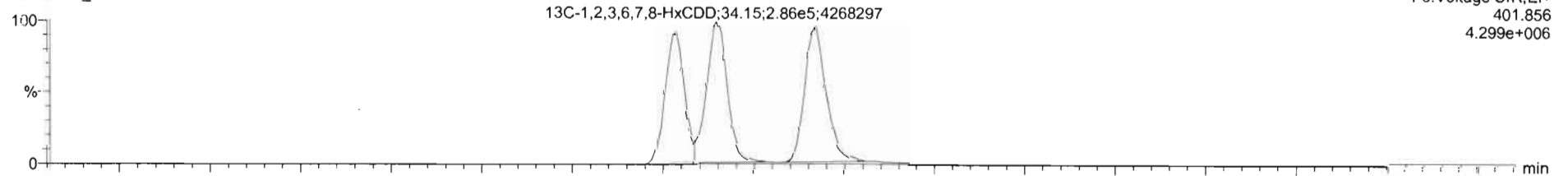


201203R2_6

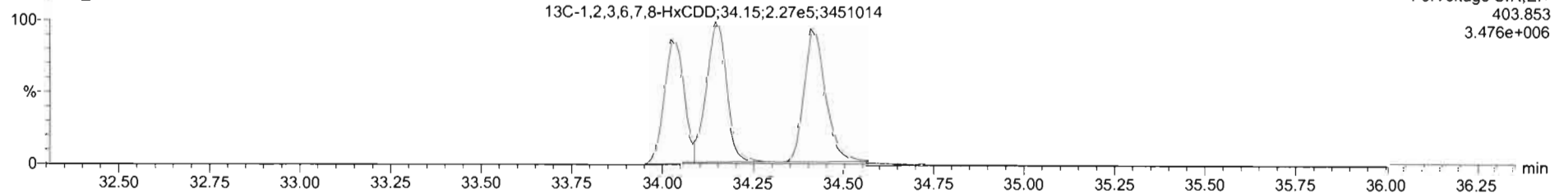


13C-1,2,3,4,7,8-HxCDD

201203R2_6

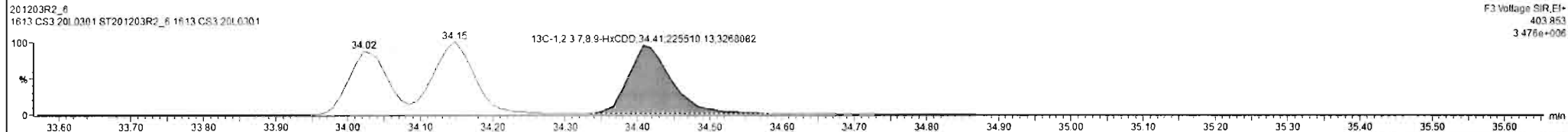


201203R2_6



201203R2_6 - ST201203R2_6 1613 CS3 20L0301 - 1613 CS3 20L0301

#	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	8.33e4	8.36e5	0.77	0.77	NO	0.9805	25.99	25.98	NO	1.001	1.001	10.2	102	NO
2	2 1,2,3,7,8-PeCDD	2.93e5	5.89e5	0.63	0.61	NO	0.9320	30.72	30.73	NO	1.000	1.000	53.4	107	NO
3	3 1,2,3,4,7,8-HxCDD	2.42e5	4.26e5	1.24	1.23	NO	1.0203	34.04	34.04	NO	1.000	1.000	55.8	112	NO
4	4 1,2,3,6,7,8-HxCDD	2.46e5	5.13e5	1.24	1.24	NO	0.9025	34.16	34.16	NO	1.000	1.000	53.0	106	NO
5	5 1,2,3,7,8,9-HxCDD	2.81e5	5.07e5	1.24	1.26	NO	0.9542	34.43	34.43	NO	1.000	1.000	54.0	108	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.90e5	3.92e5	1.04	1.02	NO	0.9180	37.89	37.91	NO	1.000	1.001	52.8	108	NO
7	7 OCDD	3.12e5	6.62e5	0.89	0.88	NO	0.8658	40.80	40.81	NO	1.000	1.000	109	109	NO
8	8 2,3,7,8-TCDF	1.10e5	1.21e6	0.77	0.75	NO	0.8480	25.28	25.30	NO	1.000	1.001	10.8	108	NO
9	9 1,2,3,7,8-PeCDF	4.70e5	9.04e5	1.55	1.61	NO	0.9597	29.47	29.46	NO	1.000	1.000	54.1	108	NO
10	10 2,3,4,7,8-PeCDF	5.09e5	8.75e5	1.55	1.56	NO	1.0671	30.52	30.53	NO	1.000	1.000	54.5	109	NO
11	11 1,2,3,4,7,8-HxCDF	3.29e5	8.08e5	1.24	1.23	NO	0.9859	33.13	33.15	NO	1.000	1.001	54.8	110	NO
12	12 1,2,3,6,7,8-HxCDF	3.68e5	6.44e5	1.24	1.24	NO	1.0380	33.26	33.28	NO	1.000	1.001	54.9	110	NO
13	13 2,3,4,6,7,8-HxCDF	3.27e5	5.97e5	1.24	1.25	NO	1.0202	33.92	33.94	NO	1.000	1.001	53.8	108	NO
14	14 1,2,3,7,8,9-HxCDF	2.95e5	5.53e5	1.24	1.25	NO	0.9909	34.91	34.92	NO	1.000	1.000	53.9	108	NO



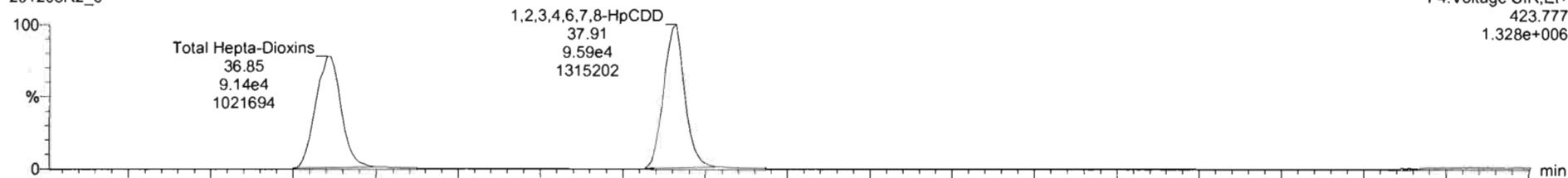
D: taset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

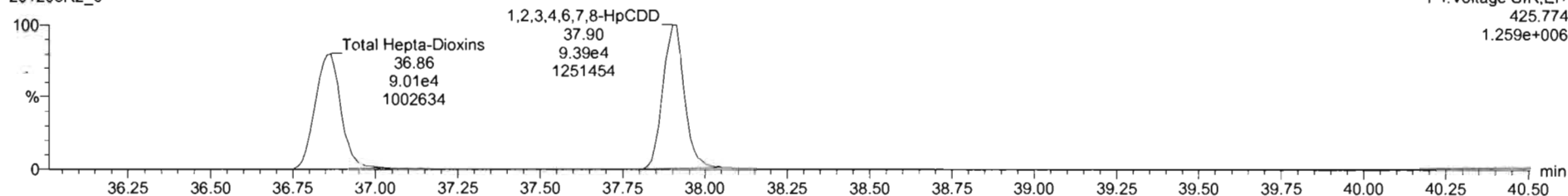
1,2,3,4,6,7,8-HpCDD

201203R2_6



F4:Voltage SIR,EI+
423.777
1.328e+006

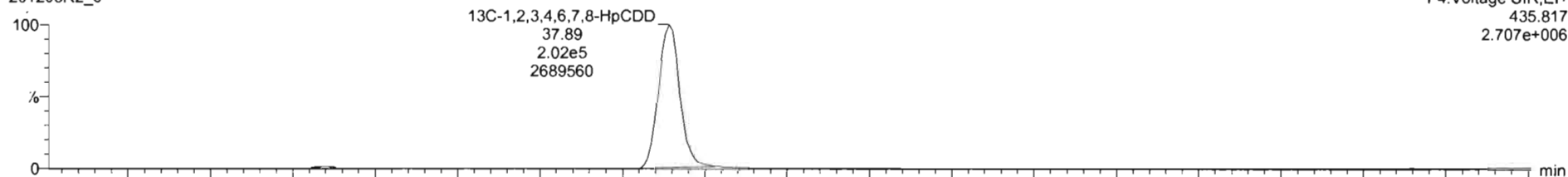
201203R2_6



F4:Voltage SIR,EI+
425.774
1.259e+006

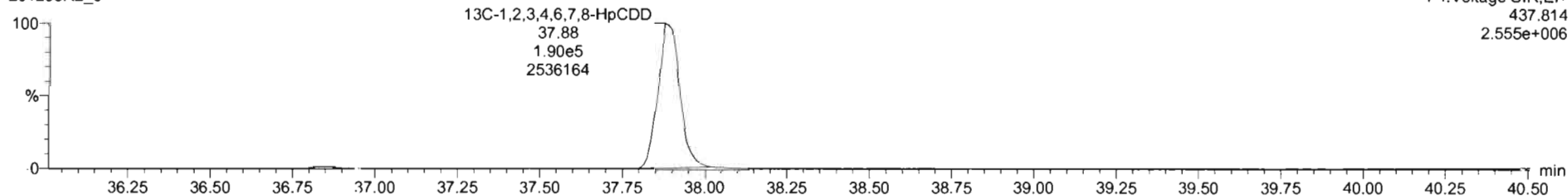
13C-1,2,3,4,6,7,8-HpCDD

201203R2_6



F4:Voltage SIR,EI+
435.817
2.707e+006

201203R2_6



F4:Voltage SIR,EI+
437.814
2.555e+006

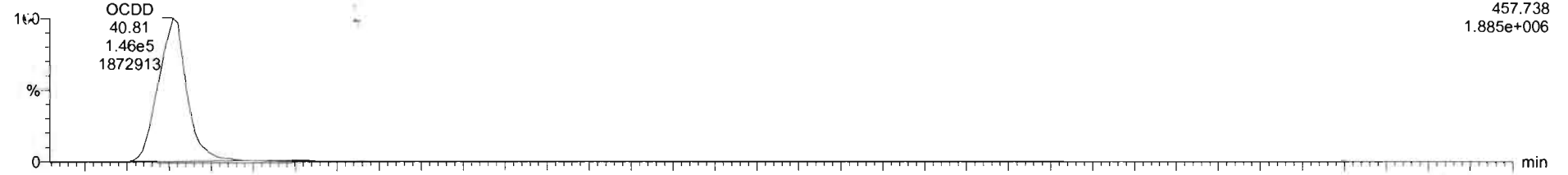
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

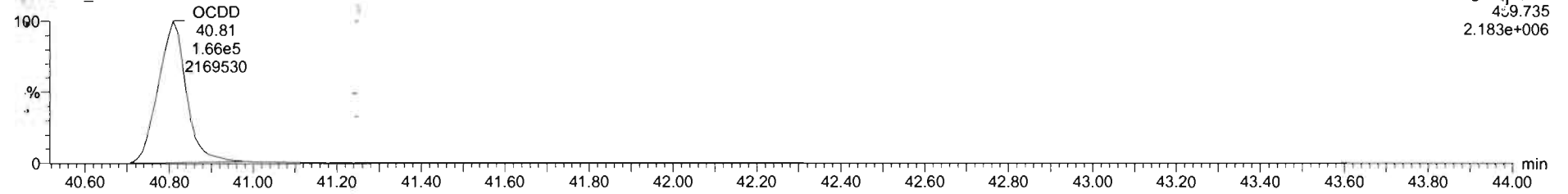
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OCDD

201203R2_6

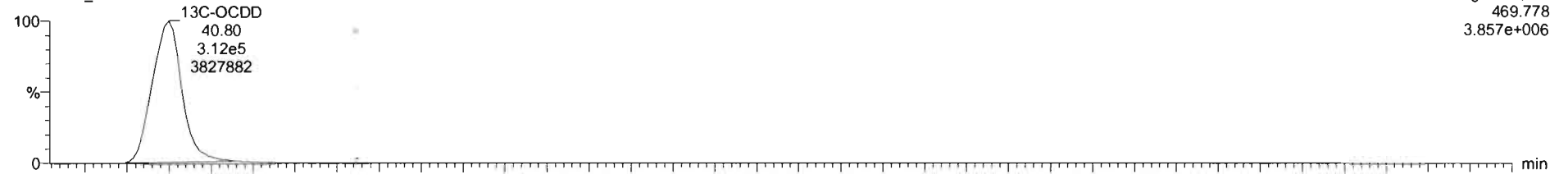


201203R2_6

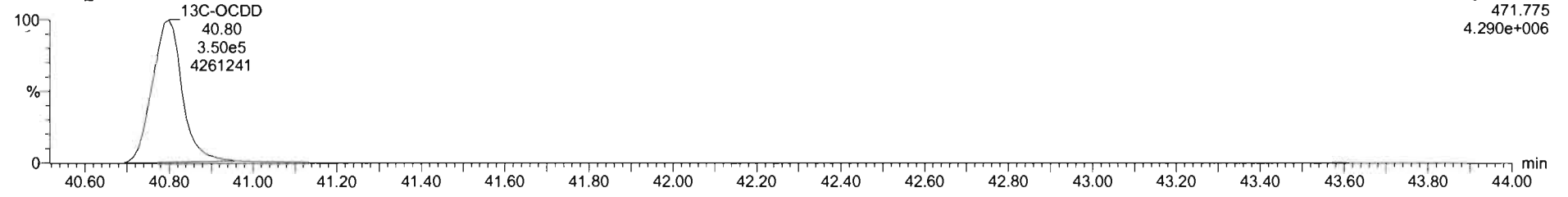


13C-OCDD

201203R2_6



201203R2_6



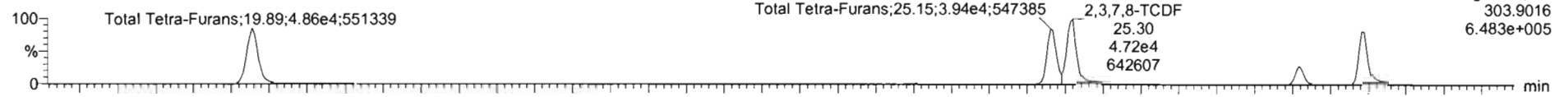
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

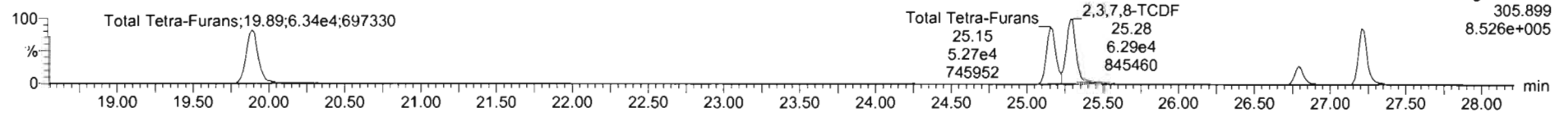
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDF

201203R2_6

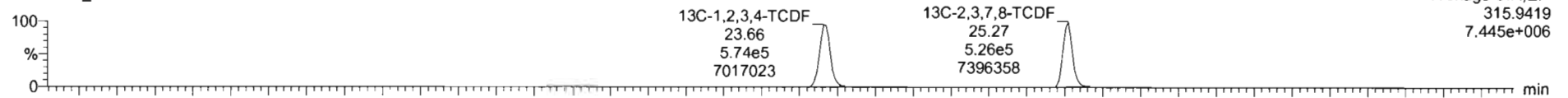


201203R2_6

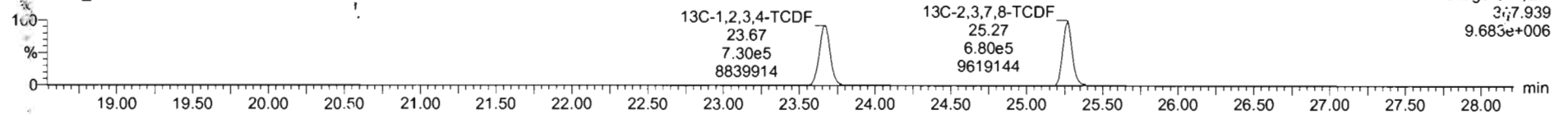


13C-2,3,7,8-TCDF

201203R2_6

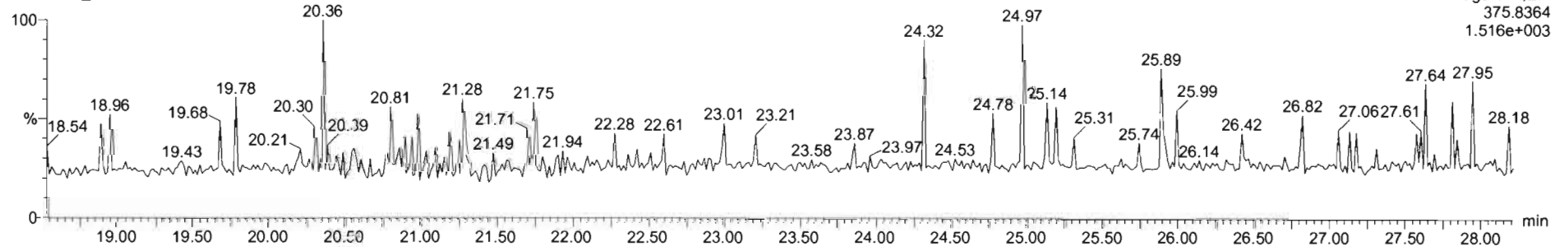


201203R2_6



DPE1

201203R2_6



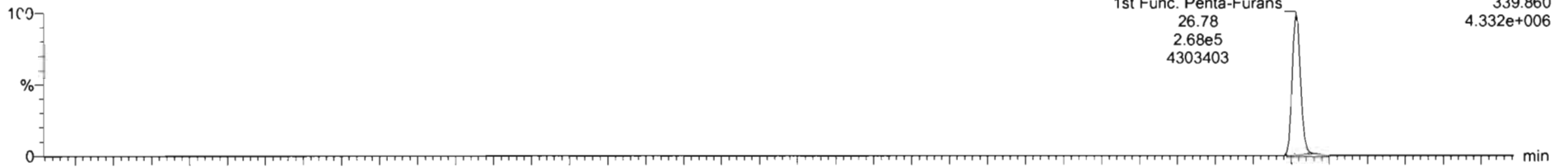
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

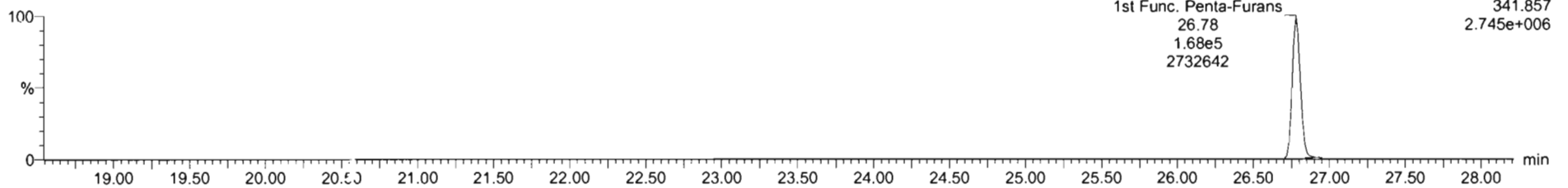
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1st Func. Penta-Furans

201203R2_6

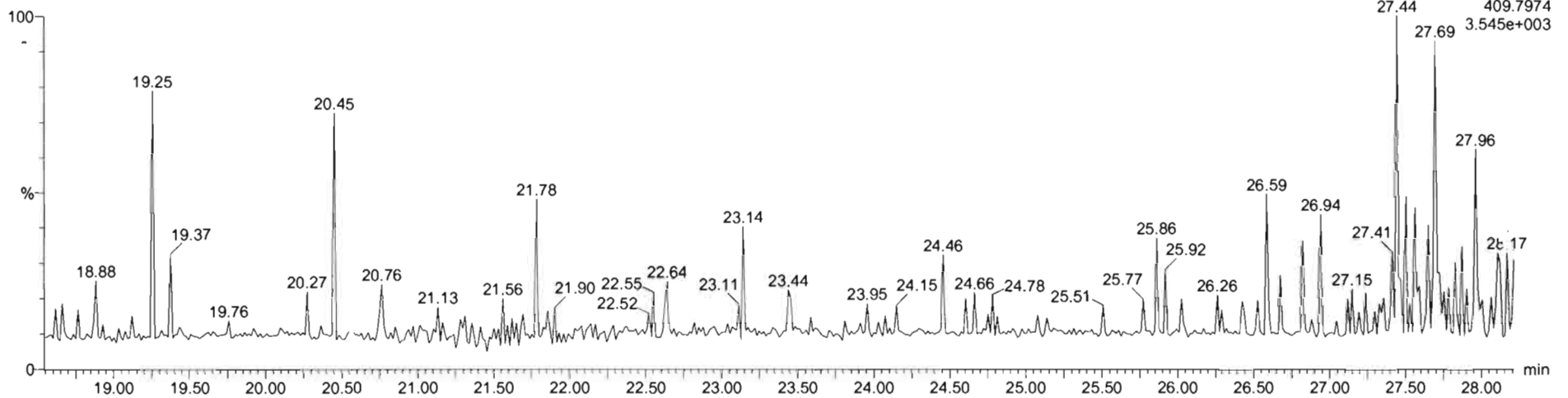


201203R2_6



DPE6

201203R2_6

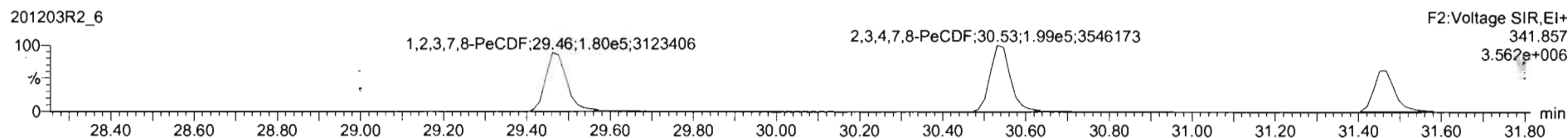
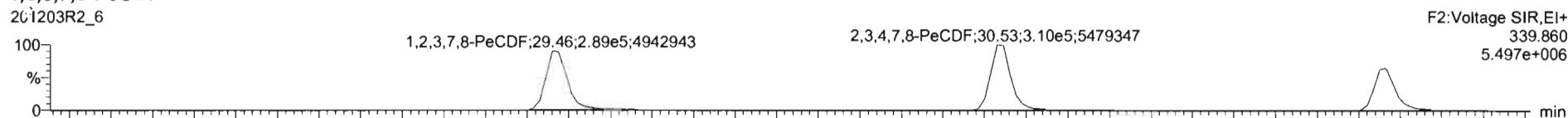


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

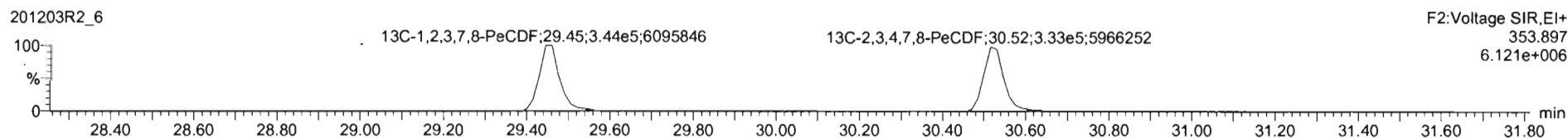
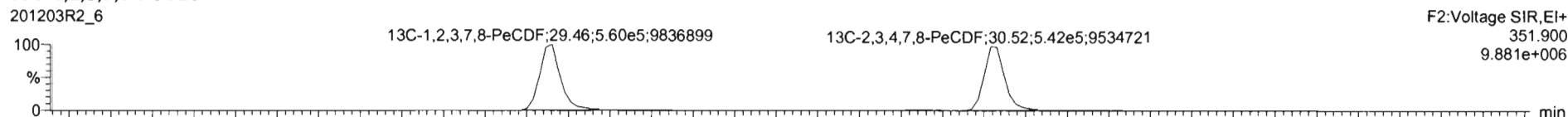
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

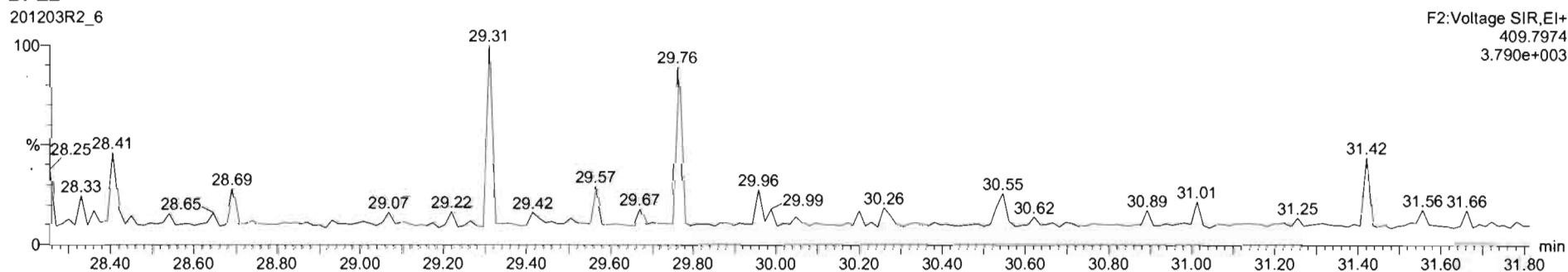
1,2,3,7,8-PeCDF



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



DPE2



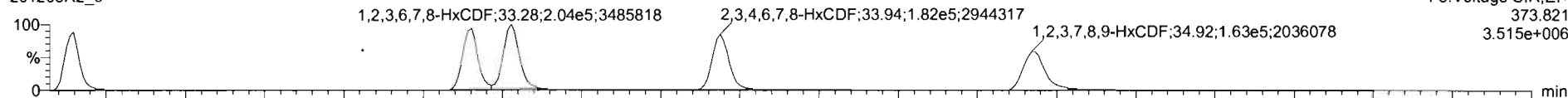
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

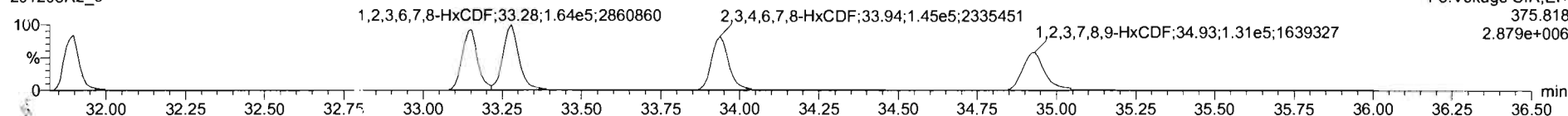
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1,2,3,4,7,8-HxCDF

201203R2_6

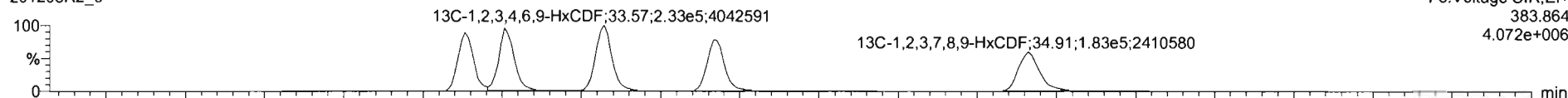


201203R2_6

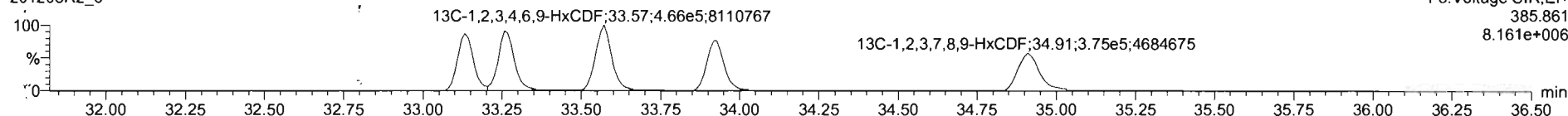


13C-1,2,3,4,7,8-HxCDF

201203R2_6

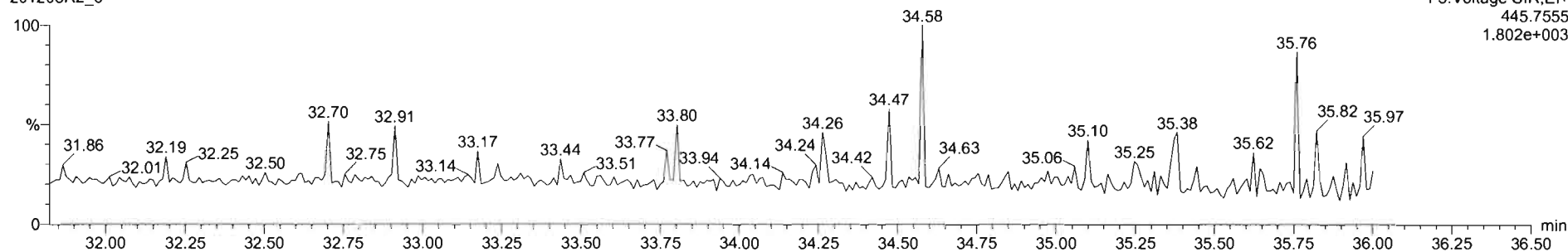


201203R2_6



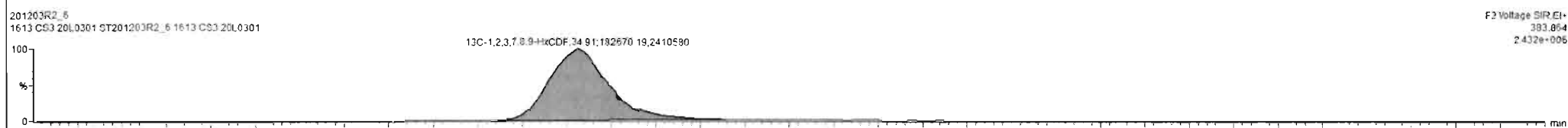
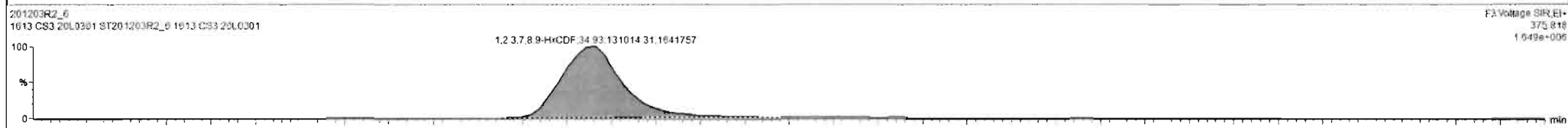
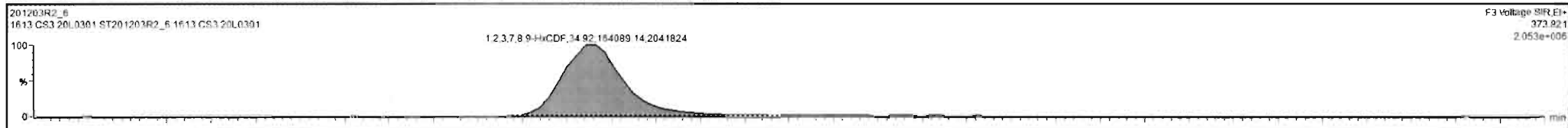
DPE3

201203R2_6



201203R2_6 - ST201203R2_6 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Name	Resp	IS Resp	Pred RA	RA	ivy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conn	%Rec	STD out
1	1,2,3,7,8-TCDD	8.33e4	8.36e5	0.77	0.77	NO	0.9805	25.99	25.98	NO	1.001	1.001	10.2	102	NO
2	1,2,3,7,8-PeCDD	2.93e5	5.89e5	0.63	0.61	NO	0.9320	30.72	30.73	NO	1.000	1.000	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	2.42e5	4.26e5	1.24	1.23	NO	1.0203	34.04	34.04	NO	1.000	1.000	55.8	112	NO
4	1,2,3,6,7,8-HxCDD	2.46e5	5.13e5	1.24	1.24	NO	0.9025	34.16	34.16	NO	1.000	1.000	53.0	106	NO
5	1,2,3,7,8,9-HxCDD	2.61e5	5.07e5	1.24	1.26	NO	0.9542	34.43	34.43	NO	1.000	1.000	54.0	108	NO
6	1,2,3,4,6,7,8-HpCDD	1.90e5	3.92e5	1.04	1.02	NO	0.9180	37.89	37.91	NO	1.000	1.001	52.8	106	NO
7	OCDD	3.12e5	6.62e5	0.89	0.88	NO	0.8658	40.80	40.81	NO	1.000	1.000	109	109	NO
8	2,3,7,8-TCDF	1.10e5	1.21e6	0.77	0.75	NO	0.8480	25.28	25.30	NO	1.000	1.001	10.8	108	NO
9	1,2,3,7,8-PeCDF	4.70e5	9.04e5	1.55	1.61	NO	0.9597	29.47	29.46	NO	1.000	1.000	54.1	108	NO
10	2,3,7,8-PeCDF	5.09e5	8.75e5	1.55	1.56	NO	1.0871	30.52	30.53	NO	1.000	1.000	54.5	109	NO
11	1,2,3,4,7,8-HxCDF	3.29e5	6.08e5	1.24	1.23	NO	0.9859	33.13	33.15	NO	1.000	1.001	54.8	110	NO
12	1,2,3,6,7,8-HxCDF	3.68e5	6.44e5	1.24	1.24	NO	1.0388	33.26	33.28	NO	1.000	1.001	54.9	110	NO
13	2,3,4,6,7,8-HxCDF	3.27e5	5.97e5	1.24	1.25	NO	1.0202	33.92	33.94	NO	1.000	1.001	53.8	108	NO
14	1,2,3,7,8,9-HxCDF	2.95e5	5.53e5	1.24	1.25	NO	0.9909	34.91	34.92	NO	1.000	1.000	53.9	108	NO

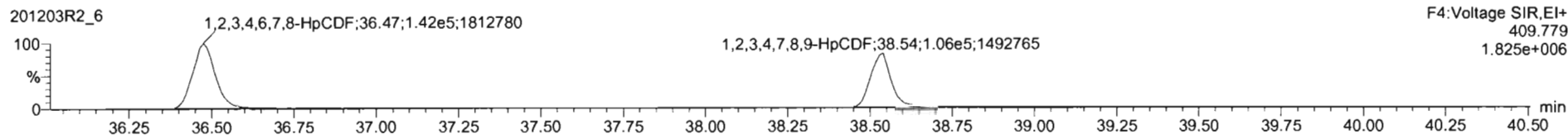
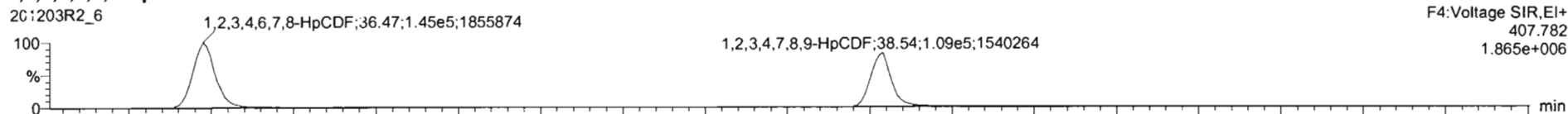


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

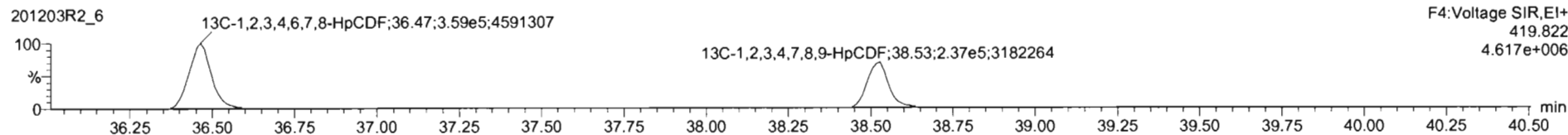
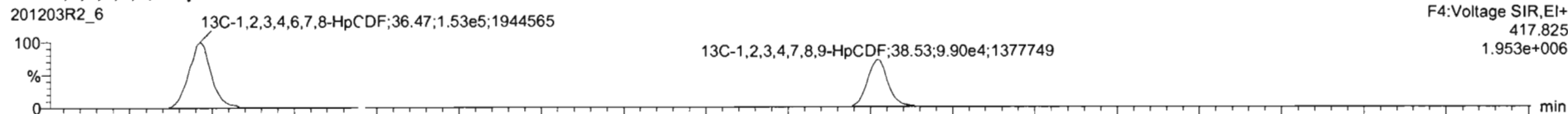
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

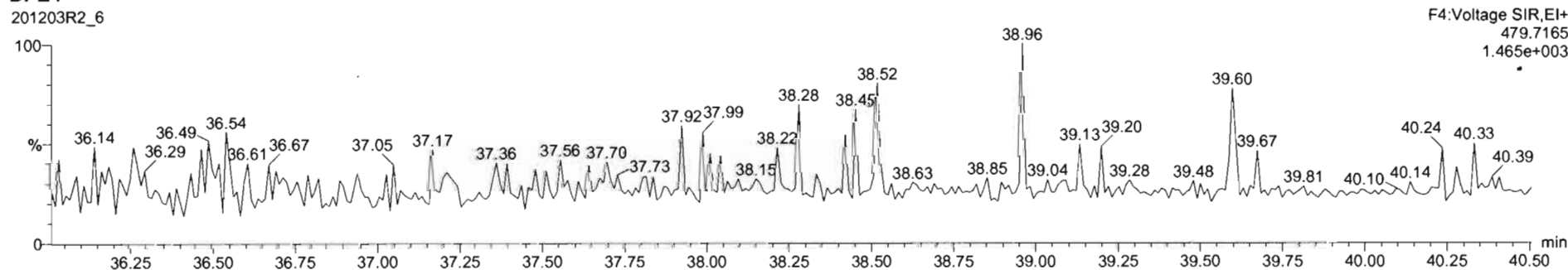
1,2,3,4,6,7,8-HpCDF



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



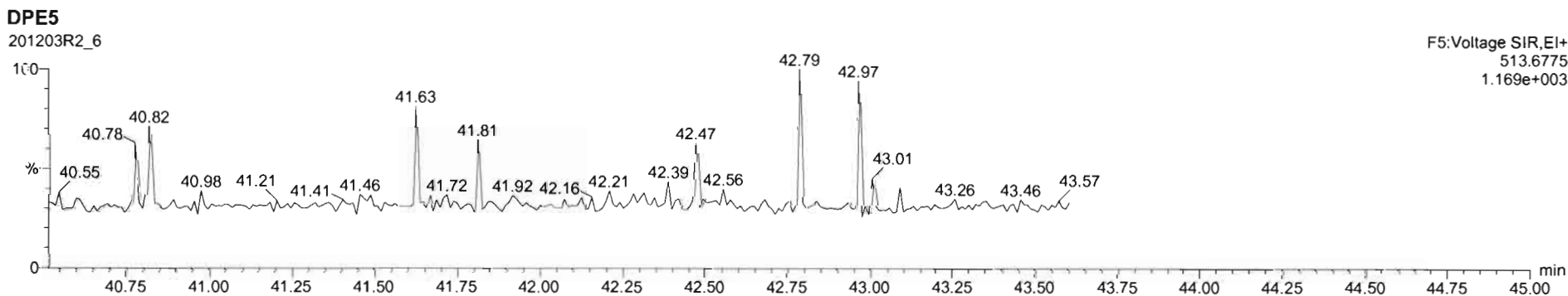
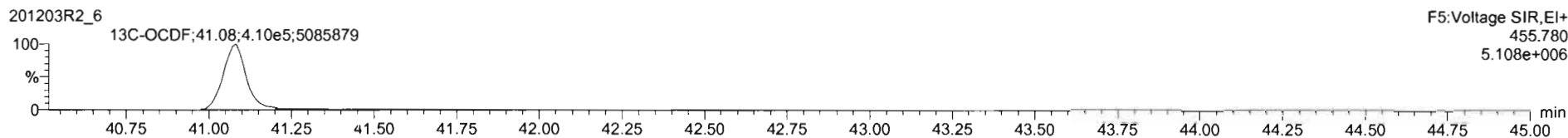
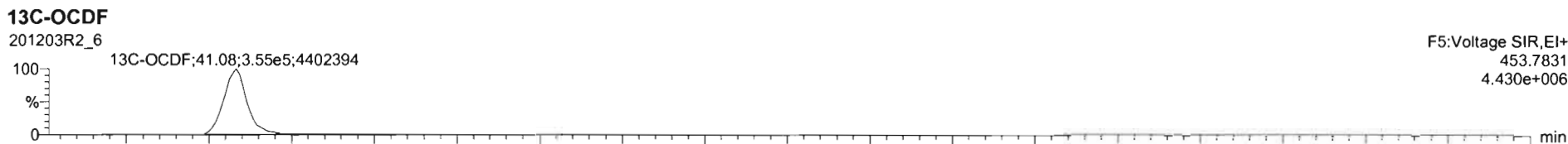
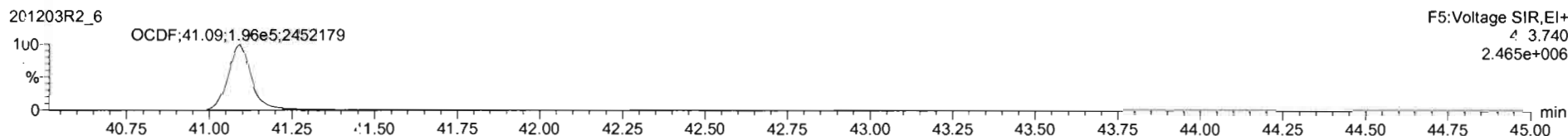
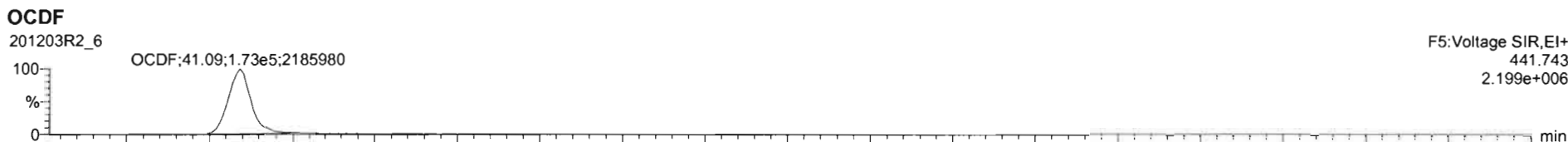
DPE4



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

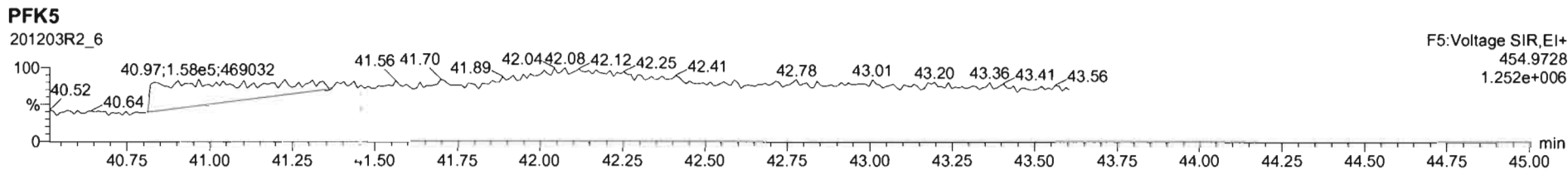
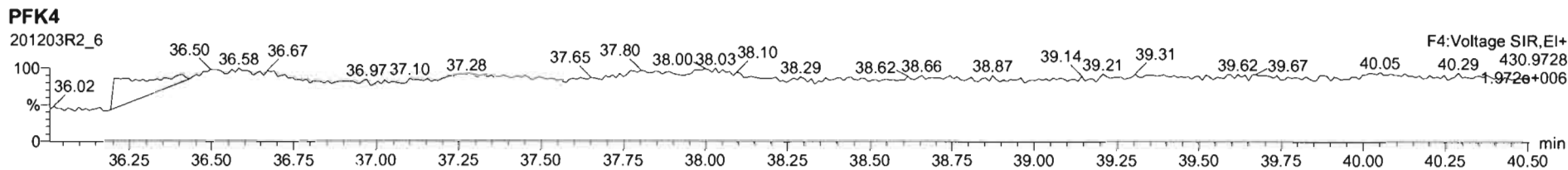
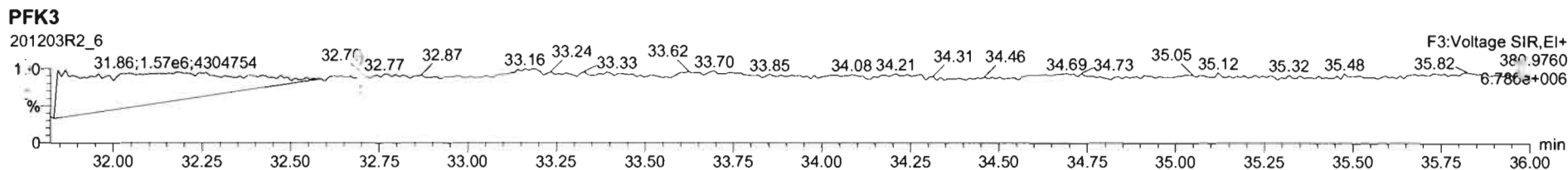
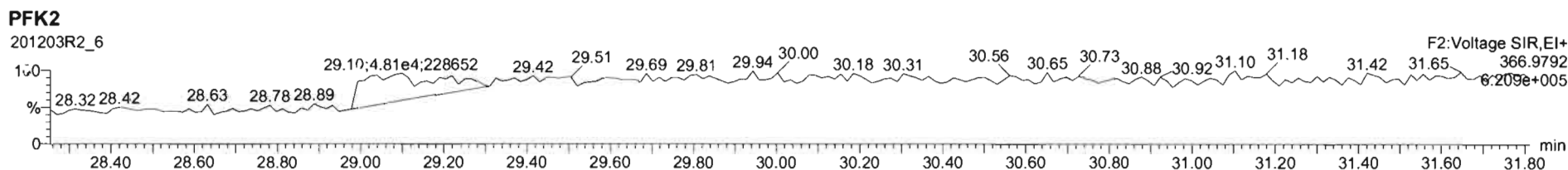
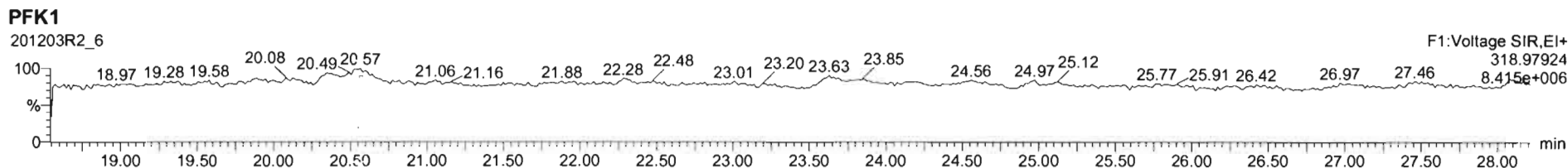
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Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

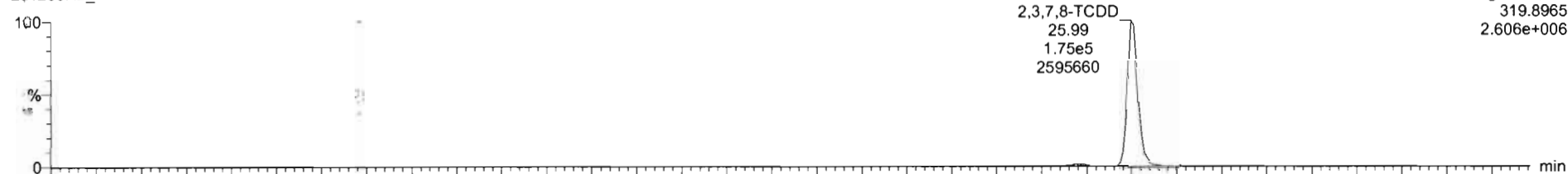
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

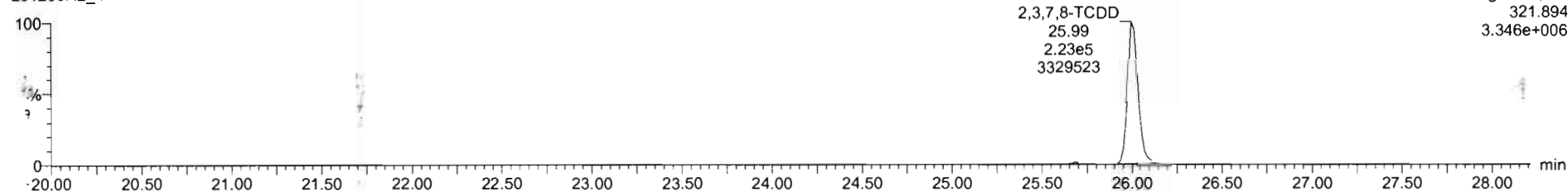
Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

2,3,7,8-TCDD

201203R2_4

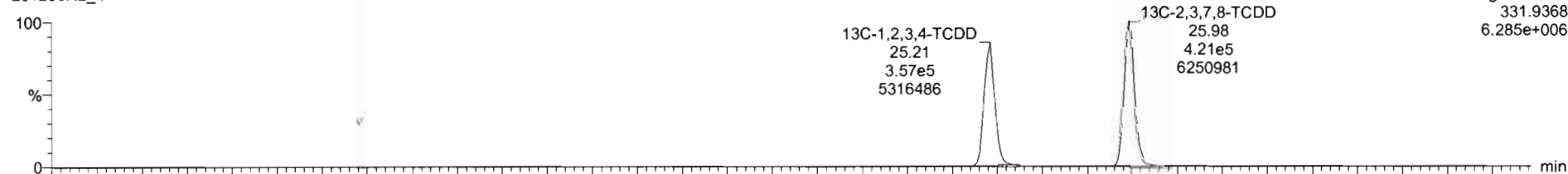


201203R2_4

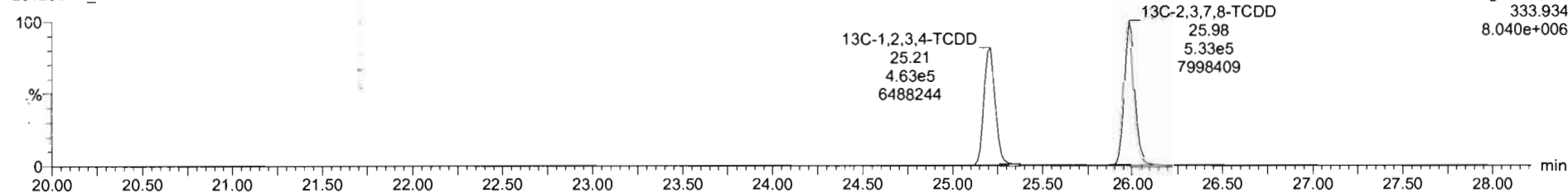


13C-2,3,7,8-TCDD

201203R2_4



201203R2_4



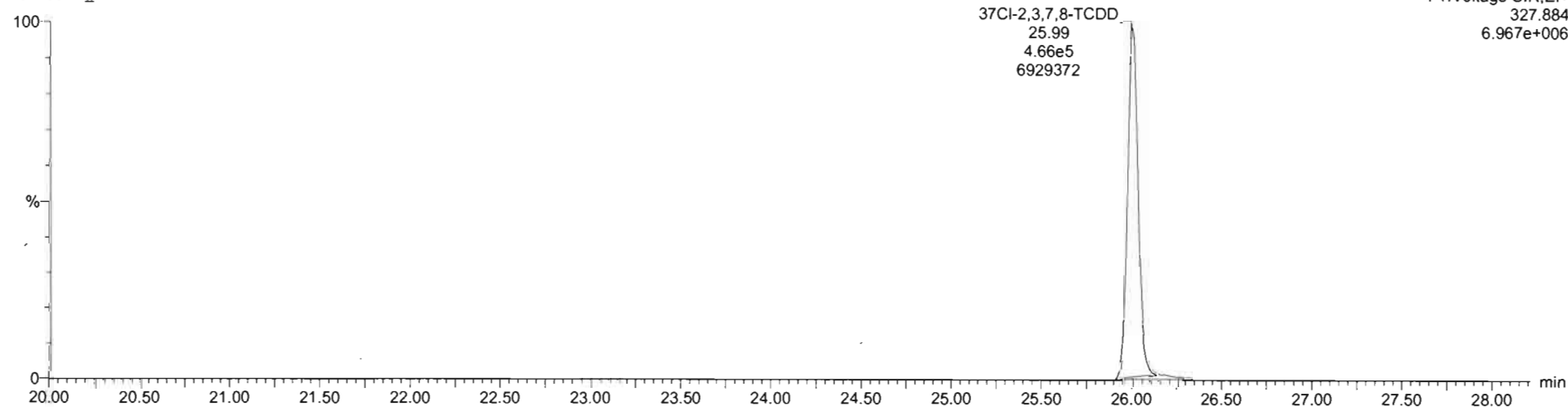
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

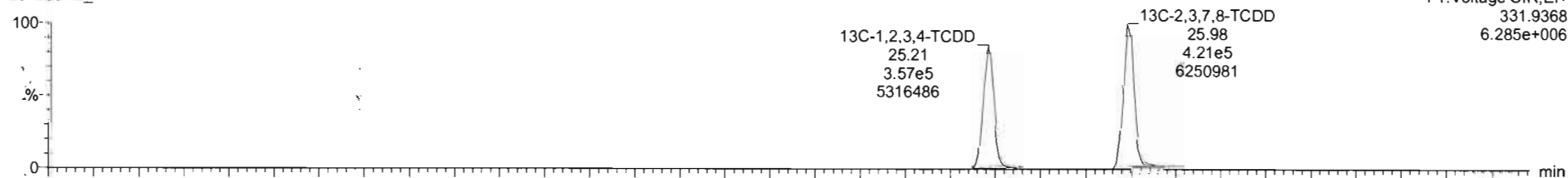
37Cl-2,3,7,8-TCDD

201203R2_4

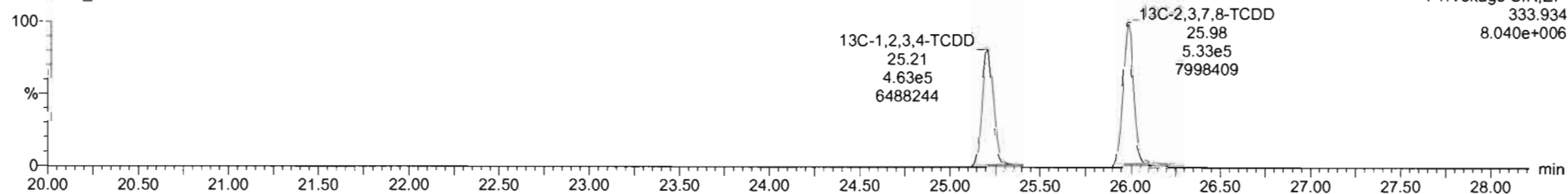


13C-1,2,3,4-TCDD

201203R2_4



201203R2_4



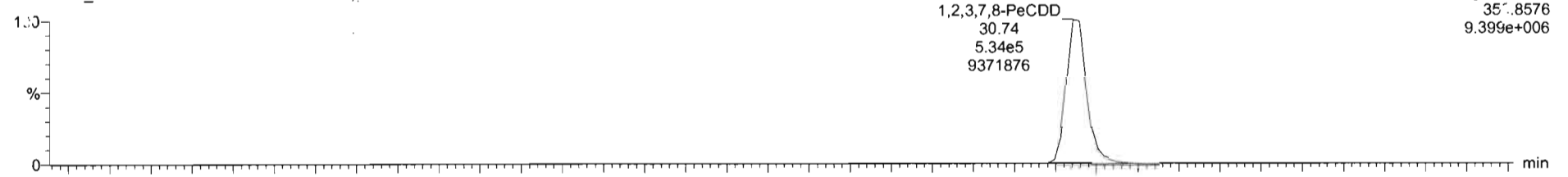
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

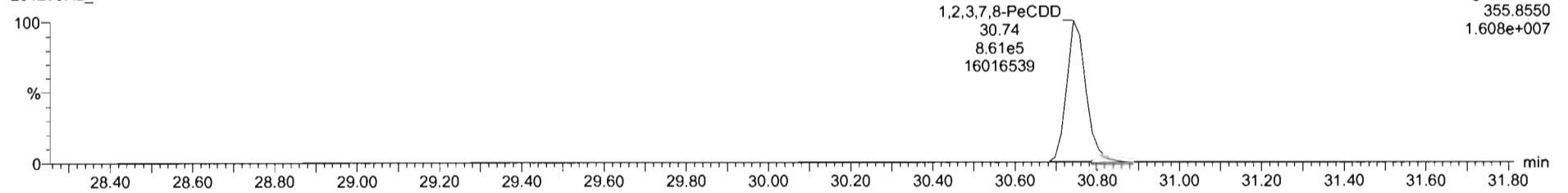
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1,2,3,7,8-PeCDD

201203R2_4

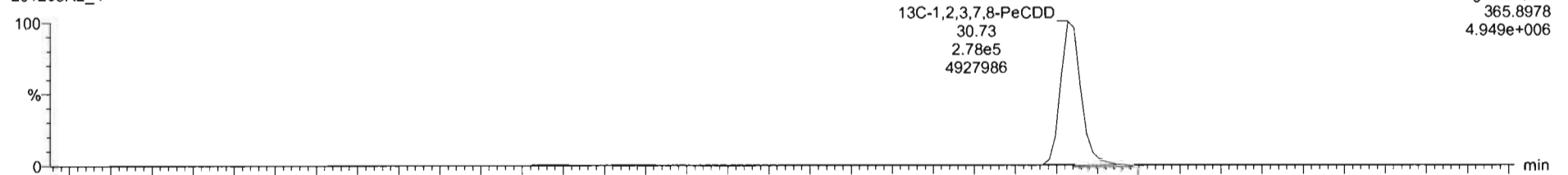


201203R2_4

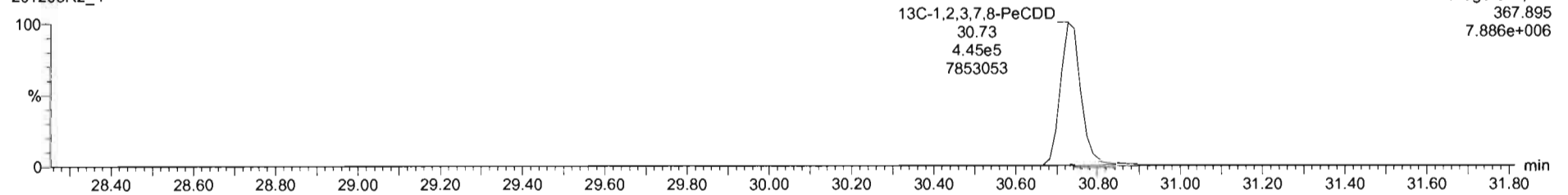


13C-1,2,3,7,8-PeCDD

201203R2_4



201203R2_4



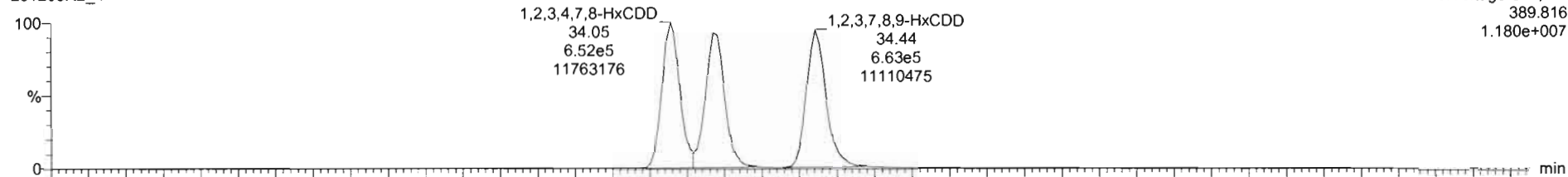
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

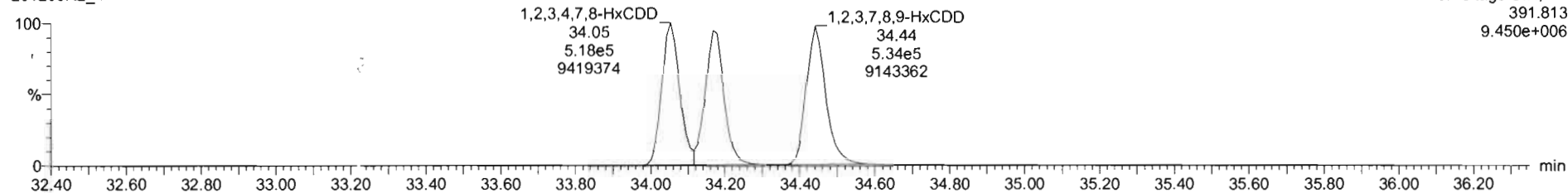
1,2,3,4,7,8-HxCDD

201203R2_4



F3:Voltage SIR,EI+
389.816
1.180e+007

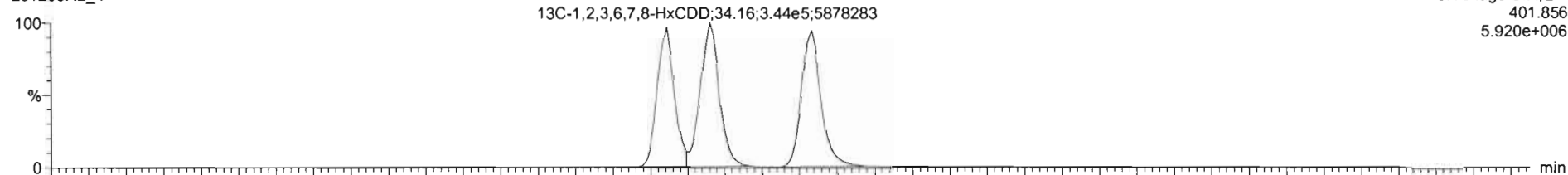
201203R2_4



F3:Voltage SIR,EI+
391.813
9.450e+006

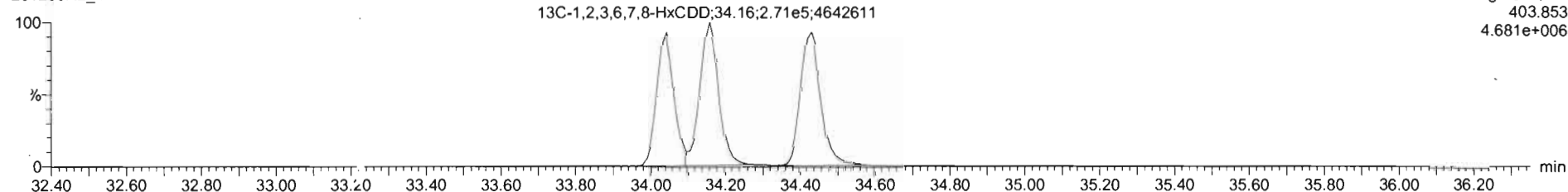
13C-1,2,3,4,7,8-HxCDD

201203R2_4



F3:Voltage SIR,EI+
401.856
5.920e+006

201203R2_4



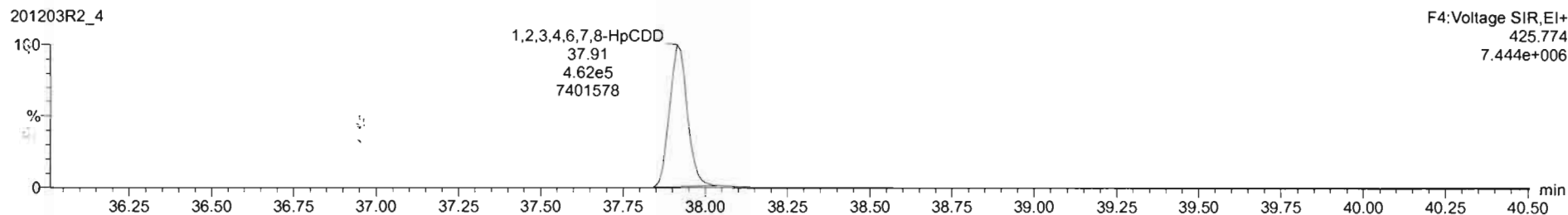
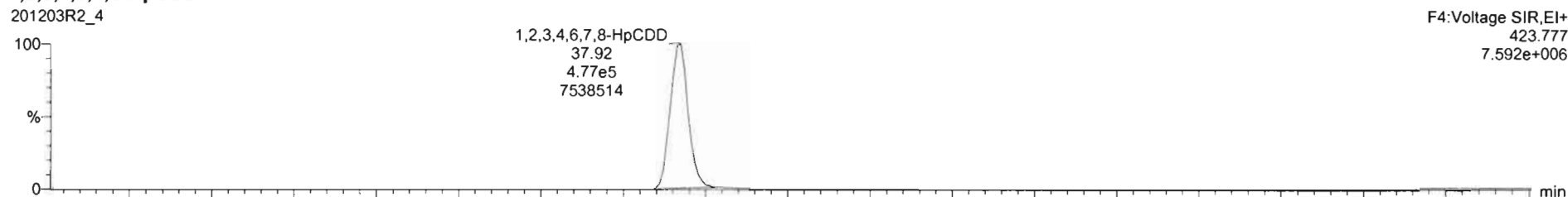
F3:Voltage SIR,EI+
403.853
4.681e+006

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

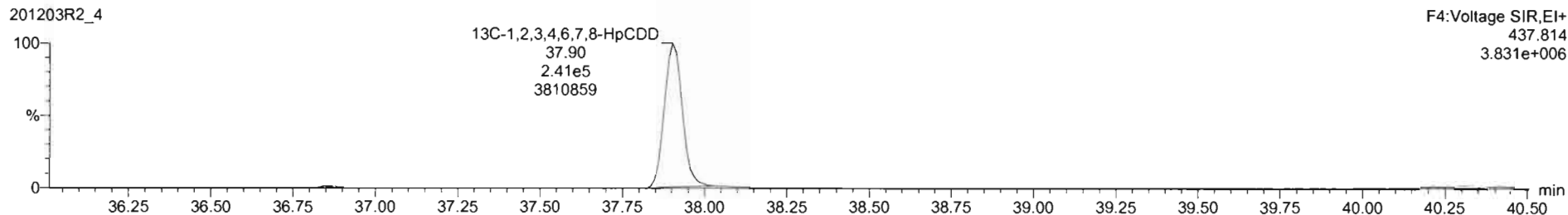
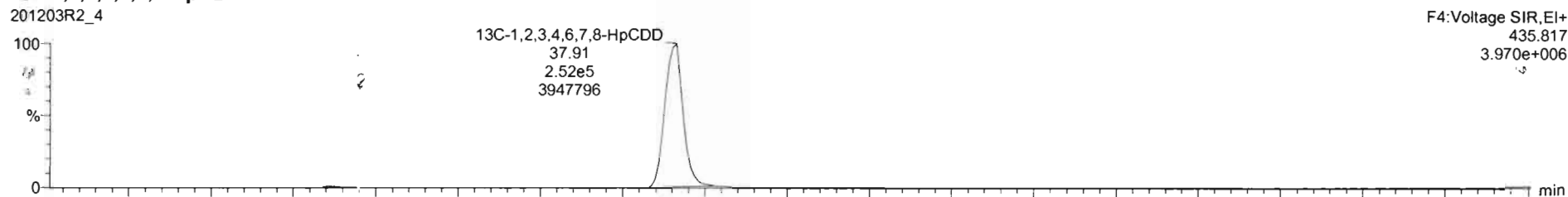
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

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



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

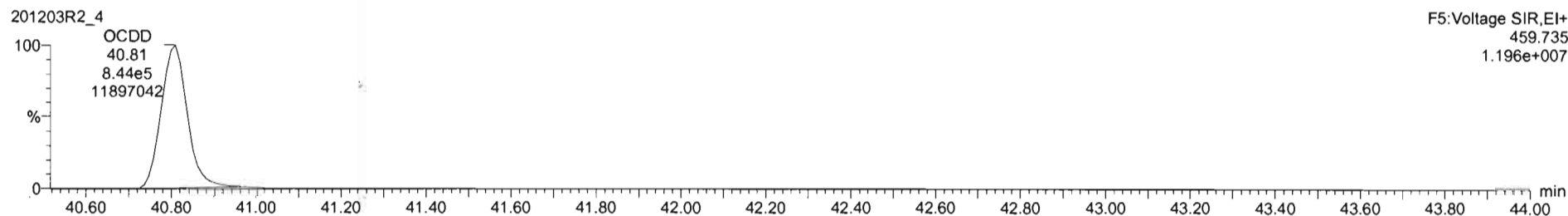
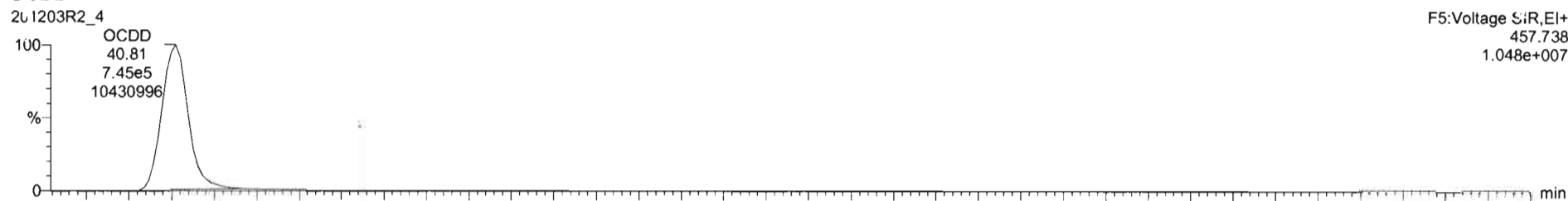


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

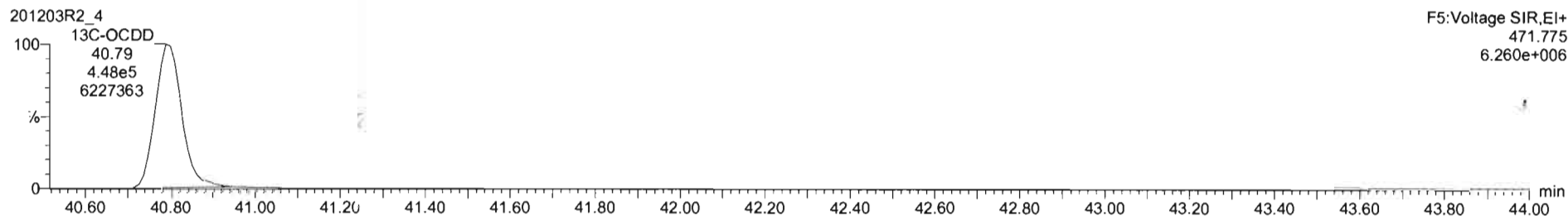
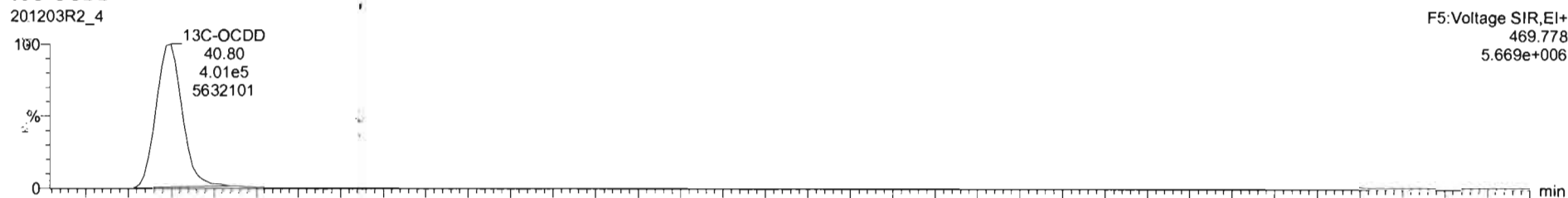
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

OCDD



13C-OCDD



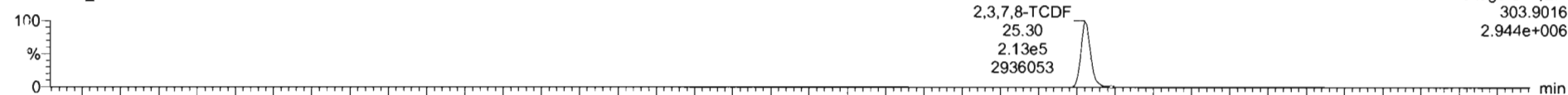
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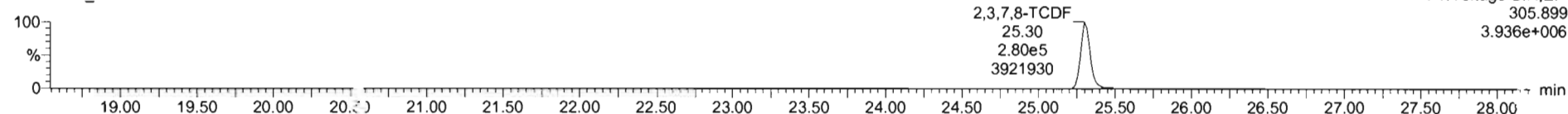
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2,3,7,8-TCDF

201203R2_4

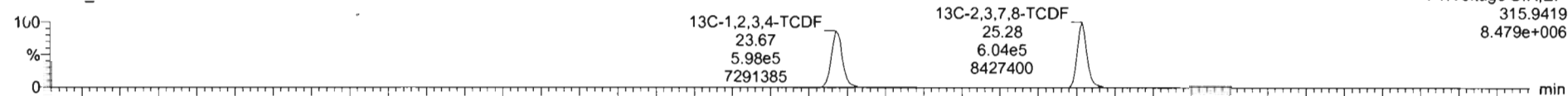


201203R2_4

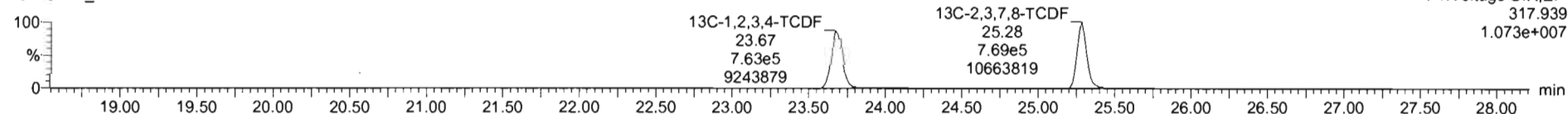


13C-2,3,7,8-TCDF

201203R2_4

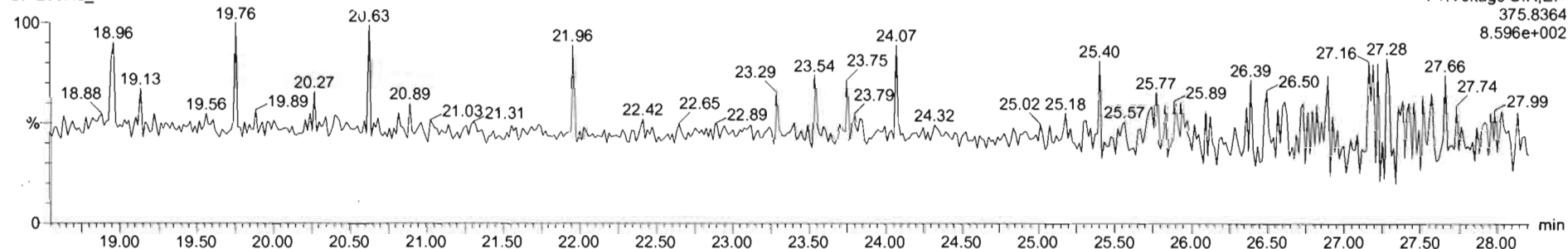


201203R2_4



DPE1

201203R2_4

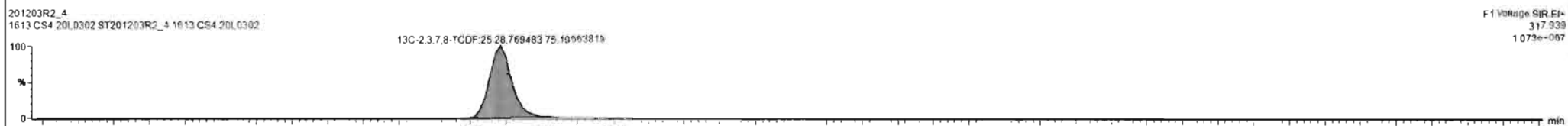
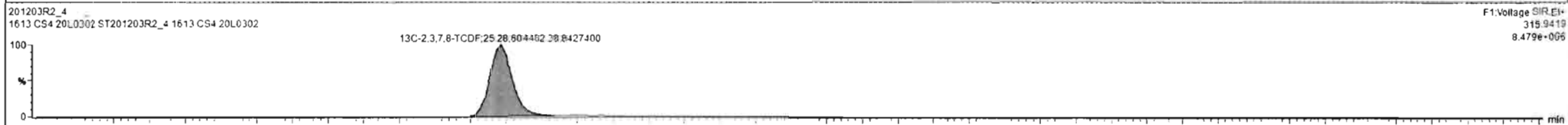
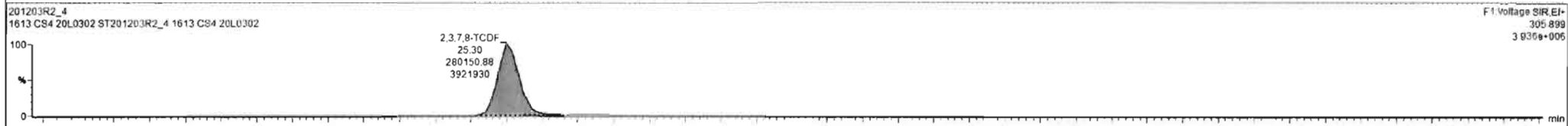
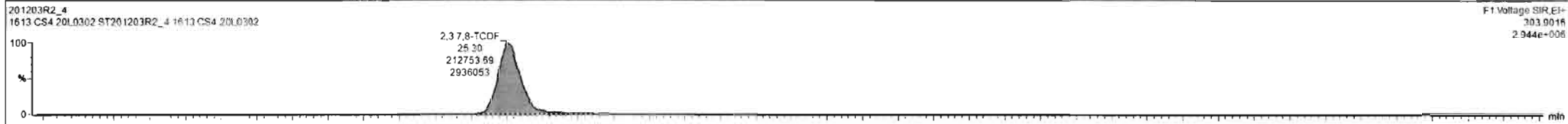


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

201203R2_4 - ST201203R2_4 1613 CS4 20L0302 - 1613 CS4 20L0302

#	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	3.98e5	9.54e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	42.5	106	NO
2	2 1,2,3,7,8-PeCDD	1.39e6	7.22e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	207	104	NO
3	3 1,2,3,4,7,8-HxCDD	1.17e6	5.28e5	1.24	1.26	NO	1.0203	34.05	34.05	NO	1.000	1.000	217	108	NO
4	4 1,2,3,6,7,8-HxCDD	1.18e6	8.16e5	1.24	1.26	NO	0.9025	34.17	34.17	NO	1.000	1.000	213	107	NO
5	5 1,2,3,7,8,9-HxCDD	1.20e6	5.99e5	1.24	1.24	NO	0.9552	34.44	34.44	NO	1.000	1.000	209	105	NO
6	6 1,2,3,4,6,7,8-HpCDD	9.39e5	4.93e5	1.04	1.03	NO	0.9180	37.91	37.92	NO	1.000	1.000	208	104	NO
7	7 OCDD	1.59e6	8.50e5	0.89	0.88	NO	0.8658	40.80	40.81	NO	1.000	1.000	432	108	NO
8	8 2,3,7,8-TCDF	4.93e5	1.37e6	0.77	0.78	NO	0.8480	25.29	25.30	NO	1.000	1.001	42.3	106	NO
9	9 1,2,3,7,8-PeCDF	2.24e6	1.11e6	1.55	1.57	NO	0.9597	29.49	29.48	NO	1.000	1.000	211	105	NO
10	10 2,3,4,7,8-PeCDF	2.37e6	1.06e6	1.55	1.56	NO	1.0671	30.53	30.55	NO	1.000	1.000	205	104	NO
11	11 1,2,3,4,7,8-HxCDF	1.55e6	7.36e5	1.24	1.23	NO	0.9859	33.14	33.16	NO	1.000	1.001	213	107	NO
12	12 1,2,3,6,7,8-HxCDF	1.74e6	7.93e5	1.24	1.22	NO	1.0368	33.28	33.29	NO	1.000	1.000	211	106	NO
13	13 2,3,4,6,7,8-HxCDF	1.54e6	7.08e5	1.24	1.23	NO	1.0202	33.93	33.95	NO	1.000	1.031	213	107	NO
14	14 1,2,3,7,8,9-HxCDF	1.43e6	8.76e5	1.24	1.25	NO	0.9888	34.92	34.93	NO	1.000	1.000	214	107	NO



Ready 201203R2_4 CAP NUM

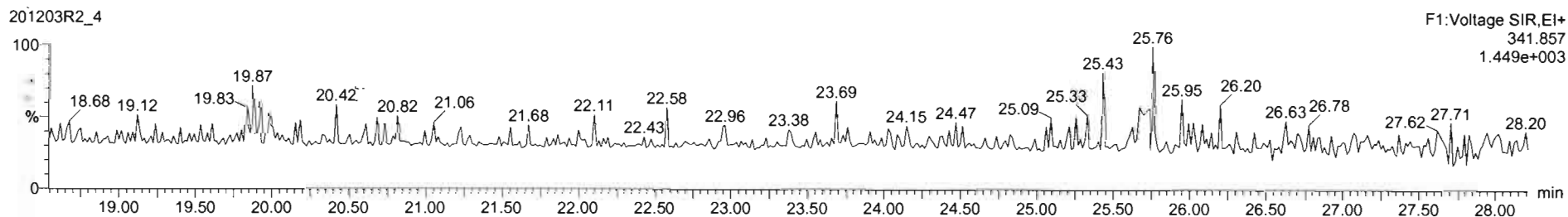
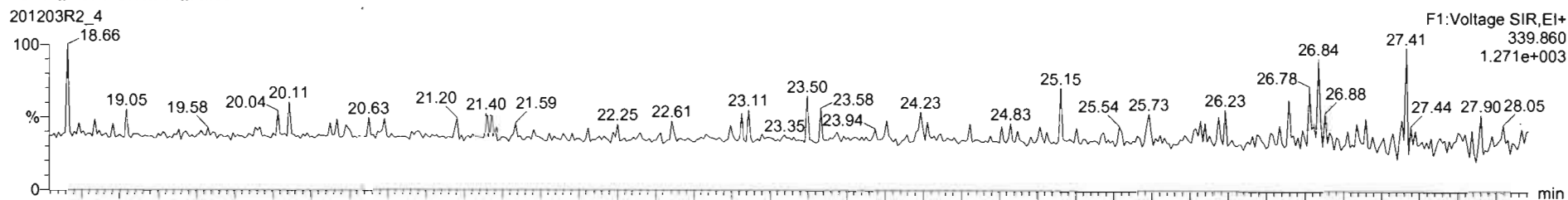
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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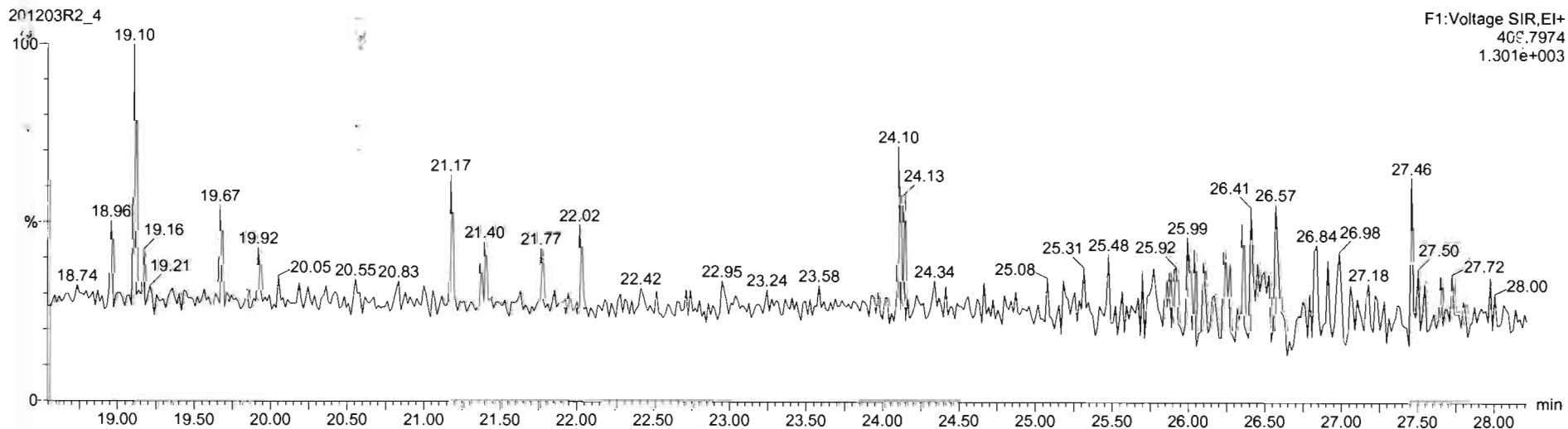
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

1st Func. Penta-Furans



DPE6



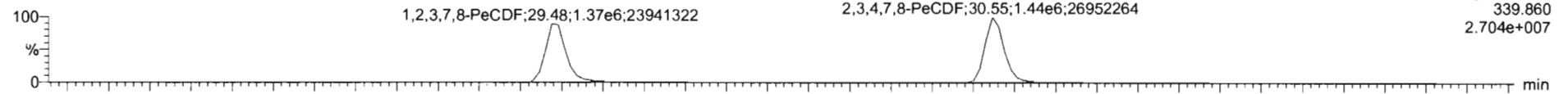
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

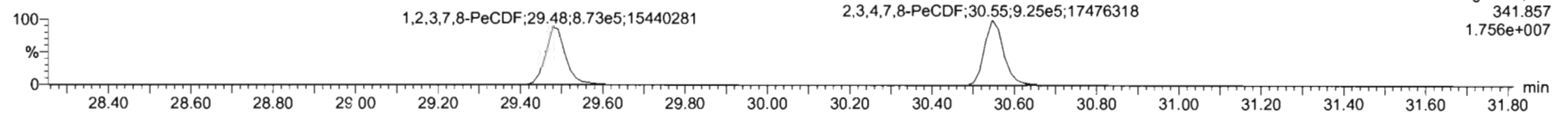
1,2,3,7,8-PeCDF

201203R2_4



F2:Voltage SIR,EI+
339.860
2.704e+007

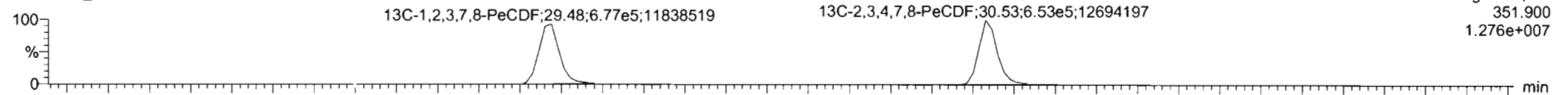
201203R2_4



F2:Voltage SIR,EI+
341.857
1.756e+007

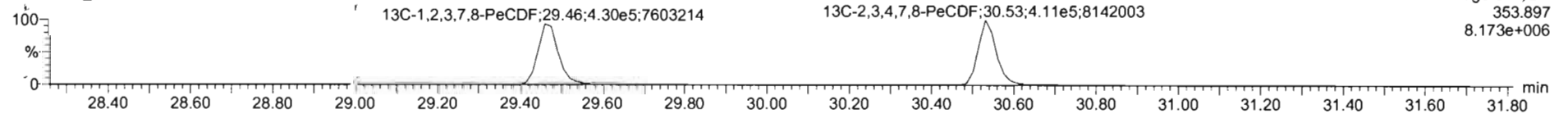
13C-1,2,3,7,8-PeCDF

201203R2_4



F2:Voltage SIR,EI+
351.900
1.276e+007

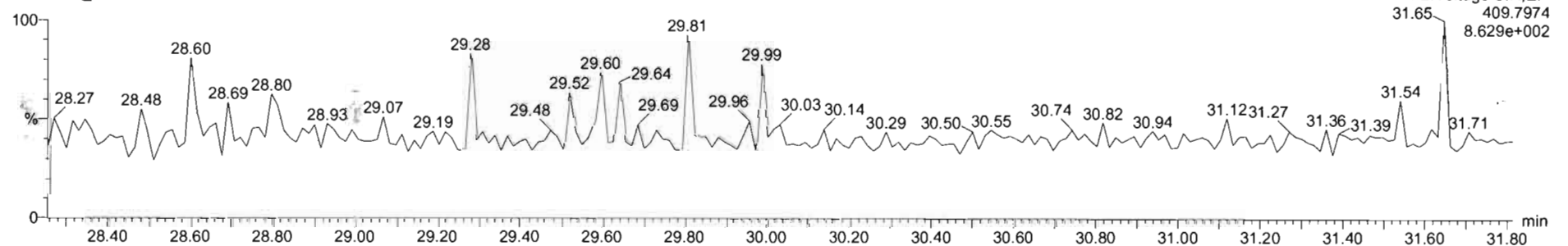
201203R2_4



F2:Voltage SIR,EI+
353.897
8.173e+006

DPE2

201203R2_4



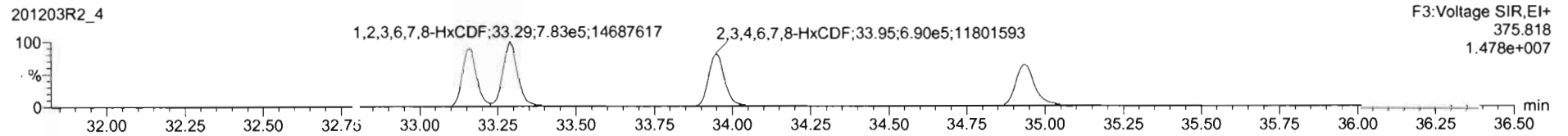
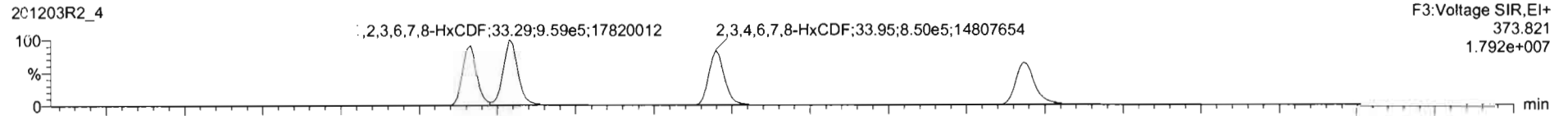
F2:Voltage SIR,EI+
409.7974
8.629e+002

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

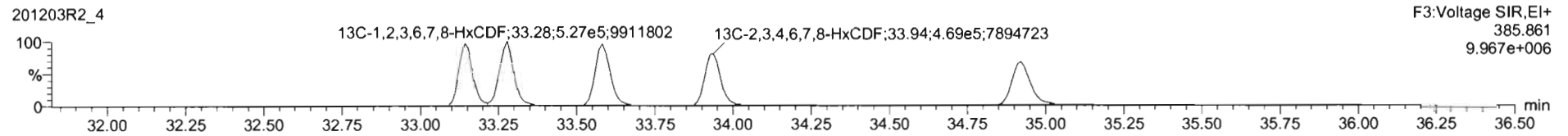
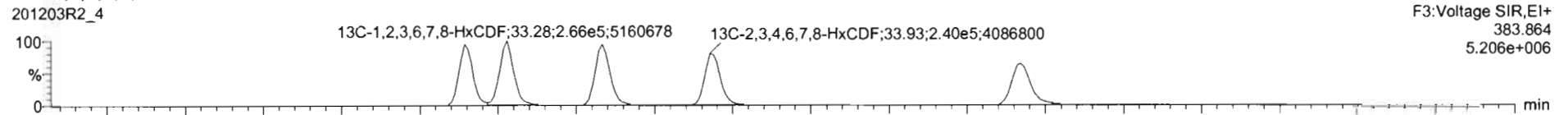
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

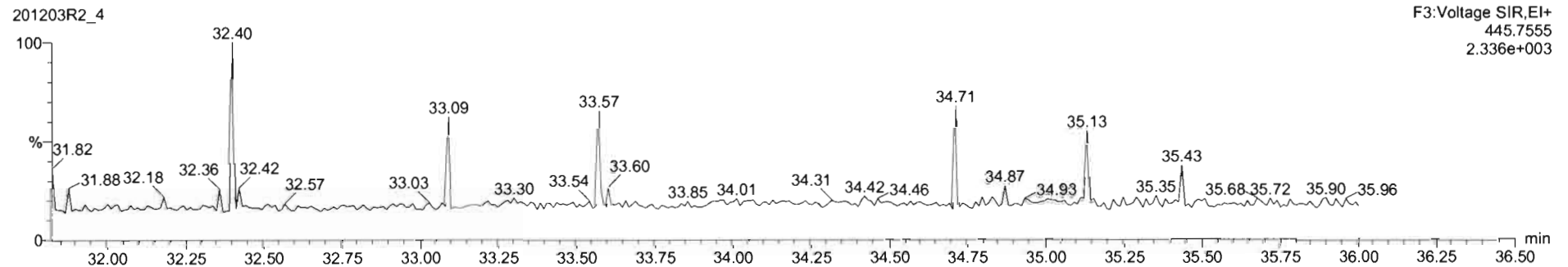
1,2,3,4,7,8-HxCDF



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

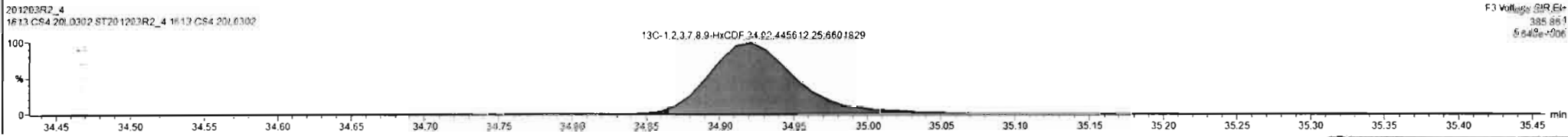
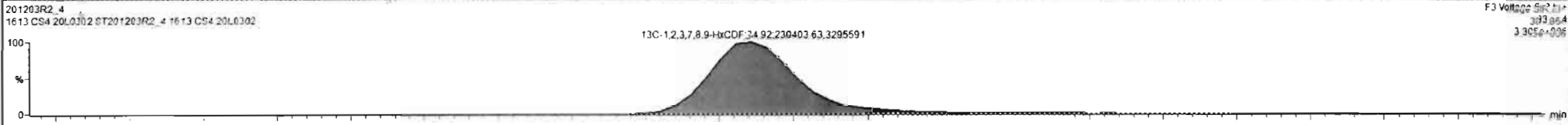
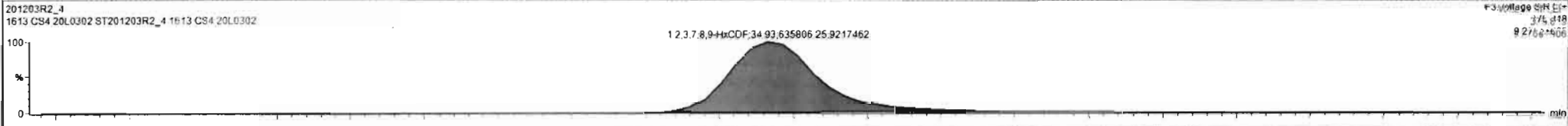
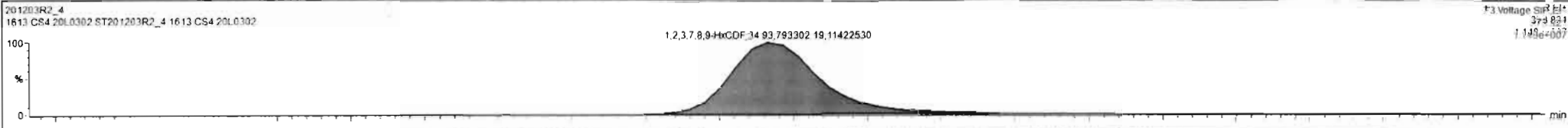


DPE3



201203R2_4 - ST201203R2_4 1613 CS4 20L0302 - 1613 CS4 20L0302

#	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	3.98e5	9.54e5	0.77	0.78	NO	0.9805	26.01	25.99	NO	1.001	1.001	42.5	106	NO
2	1,2,3,7,8-PeCDD	1.39e6	7.22e5	0.63	0.62	NO	0.9320	30.74	30.74	NO	1.000	1.000	207	104	NO
3	1,2,3,4,7,8-HxCDD	1.17e6	5.28e5	1.24	1.26	NO	1.0203	34.05	34.05	NO	1.000	1.000	217	108	NO
4	1,2,3,6,7,8-HxCDD	1.18e6	6.16e5	1.24	1.26	NO	0.9025	34.17	34.17	NO	1.000	1.000	213	107	NO
5	1,2,3,7,8,9-HxCDD	1.20e6	5.99e5	1.24	1.24	NO	0.9552	34.44	34.44	NO	1.000	1.000	209	105	NO
6	1,2,3,4,6,7,8-HpCDD	9.39e5	4.93e5	1.04	1.03	NO	0.9180	37.91	37.92	NO	1.000	1.000	208	104	NO
7	OCDD	1.59e6	8.50e5	0.89	0.88	NO	0.9658	40.80	40.81	NO	1.000	1.000	432	108	NO
8	2,3,7,8-TCDF	4.93e5	1.37e6	0.77	0.76	NO	0.8480	25.29	25.30	NO	1.000	1.001	42.3	106	NO
9	1,2,3,7,8-PeCDF	2.24e6	1.11e6	1.55	1.57	NO	0.9697	29.49	29.48	NO	1.000	1.000	211	105	NO
10	1,2,3,4,7,8-PeCDF	2.37e6	1.06e6	1.55	1.56	NO	1.0671	30.53	30.55	NO	1.000	1.000	208	104	NO
11	1,2,3,4,7,8-HxCDF	1.55e6	7.36e5	1.24	1.23	NO	0.9659	33.14	33.16	NO	1.000	1.001	213	107	NO
12	1,2,3,6,7,8-HxCDF	1.74e6	7.93e5	1.24	1.22	NO	1.0388	33.26	33.29	NO	1.000	1.000	211	106	NO
13	2,3,4,6,7,8-HxCDF	1.54e6	7.08e5	1.24	1.23	NO	1.0202	33.93	33.95	NO	1.000	1.001	213	107	NO
14	1,2,3,7,8,9-HxCDF	1.43e6	6.78e5	1.24	1.25	NO	0.9888	34.92	34.93	NO	1.000	1.000	214	107	NO

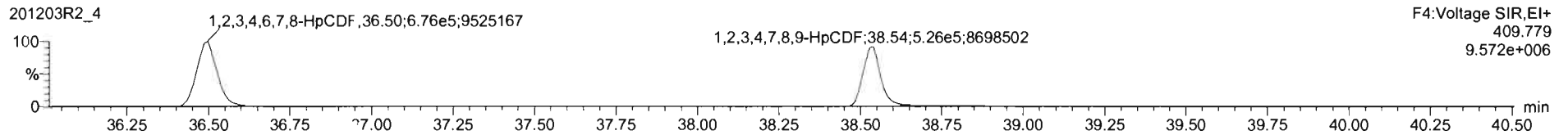
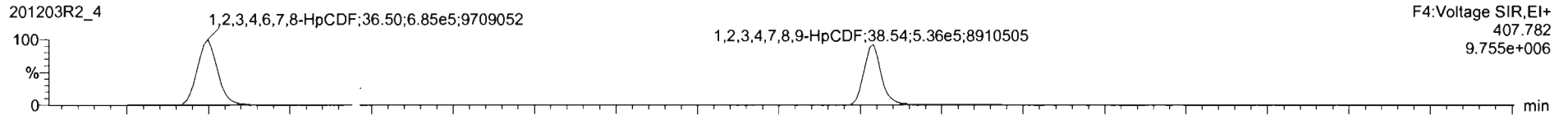


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

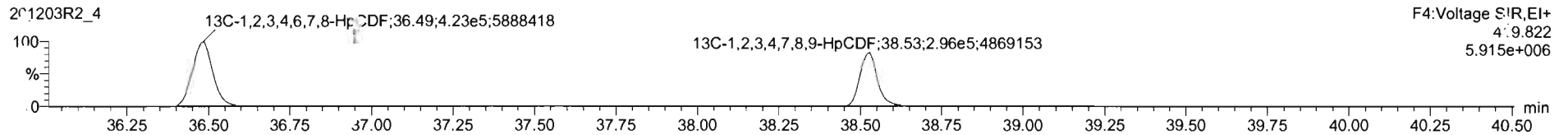
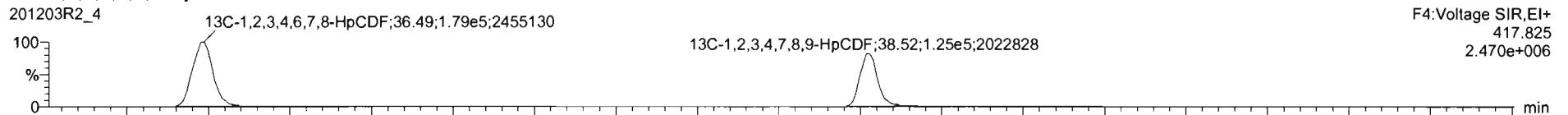
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

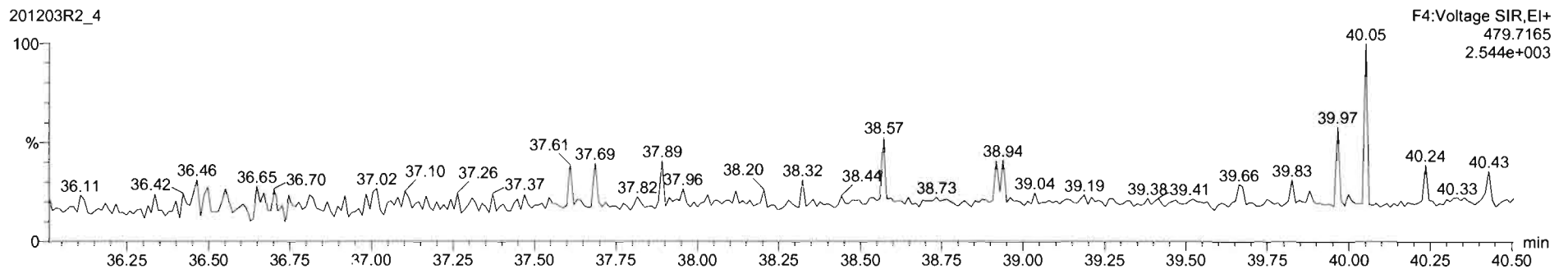
1,2,3,4,6,7,8-HpCDF



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



DPE4

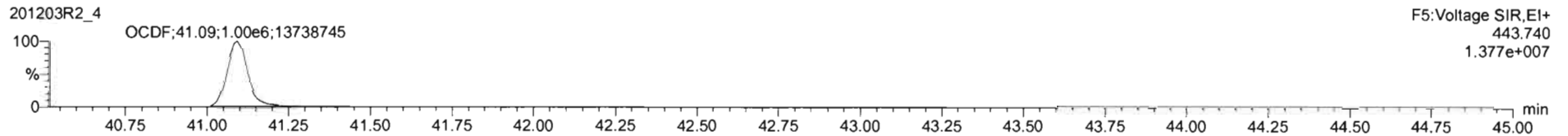
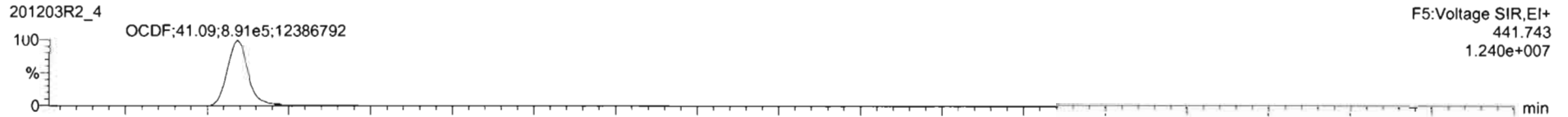


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

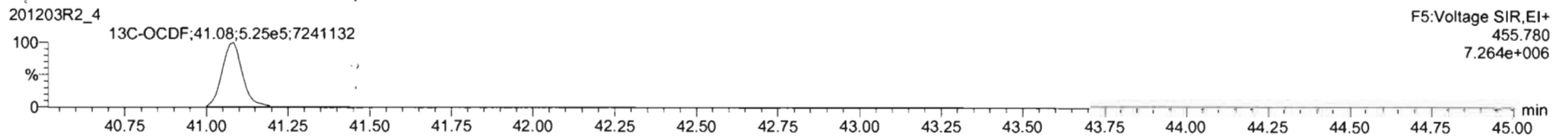
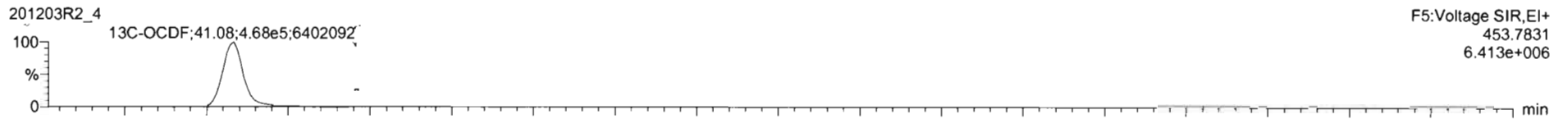
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

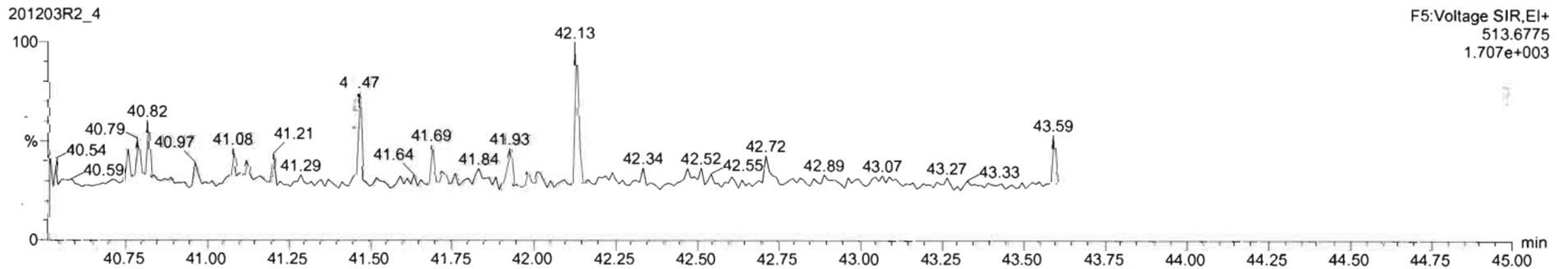
OCDF



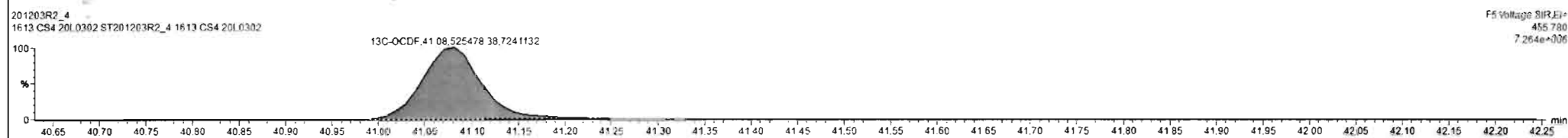
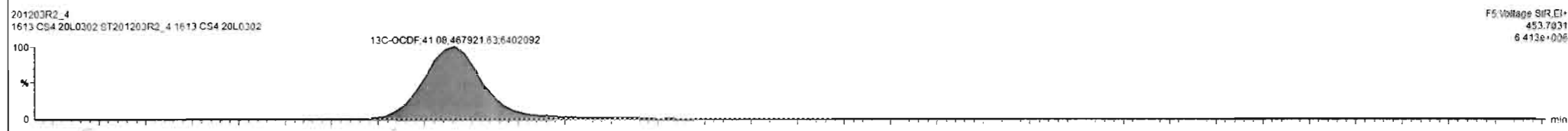
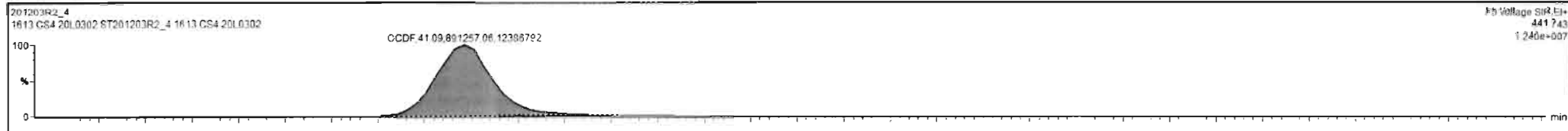
13C-OCDF



DPE5



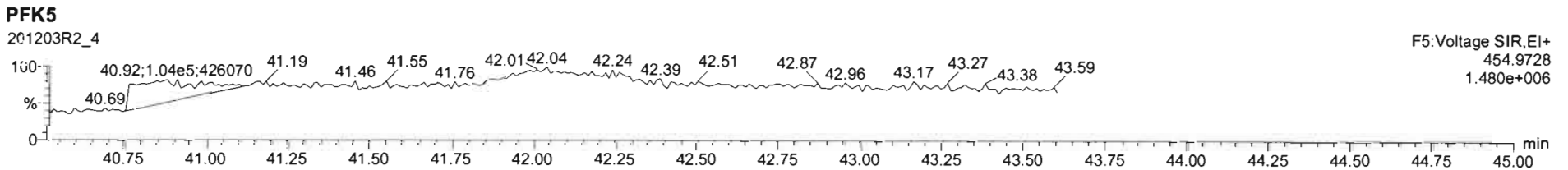
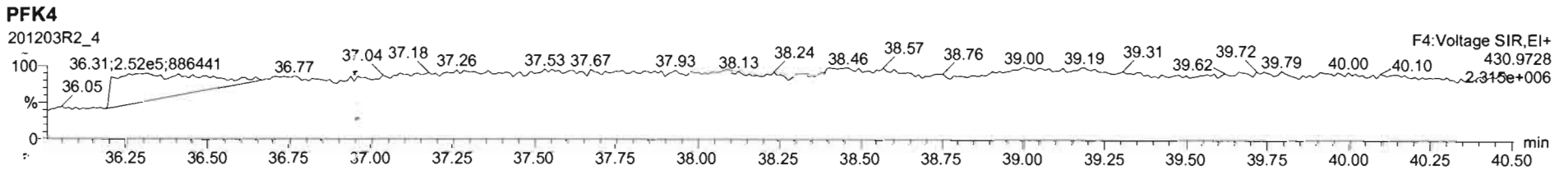
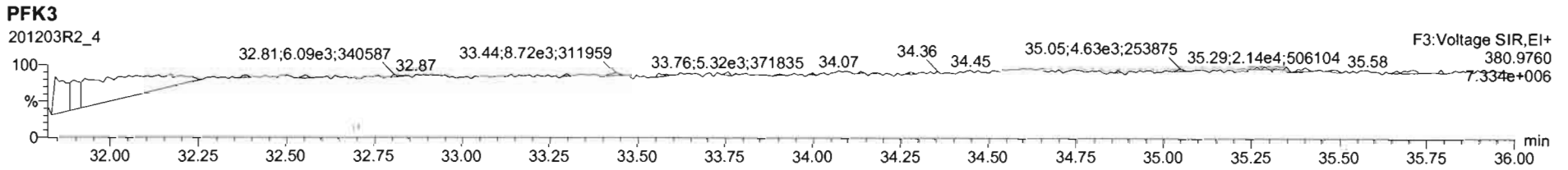
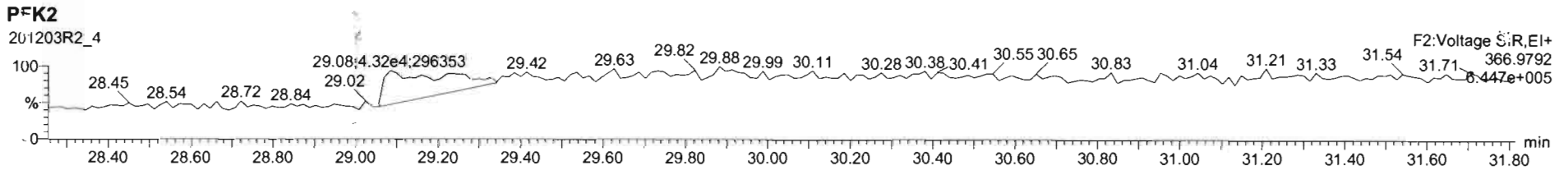
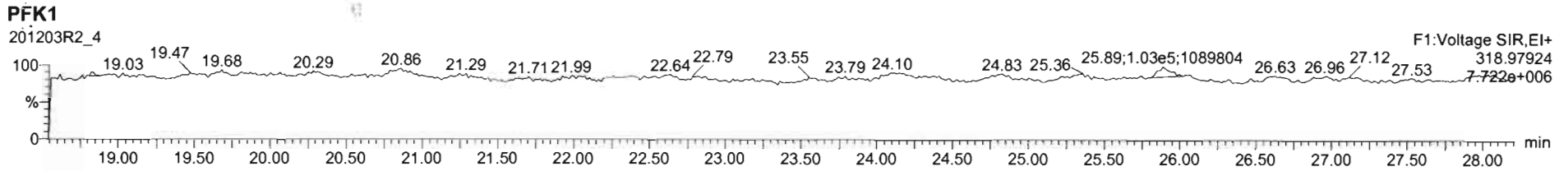
#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
16	1,2,3,4,7,8,9-HpCDF	1.06e6	4.21e5	1.04	1.02	NO	1.1759	38.52	38.54	NO	1.000	1.001	214	107	NO
17	OCDF	1.89e6	9.93e5	0.89	0.89	NO	0.9960	41.09	41.09	NO	1.000	1.000	435	106	NO
18	13C-2,3,7,8-TCDD	9.54e5	8.19e5	0.77	0.79	NO	1.0555	25.97	25.98	NO	1.030	1.031	110	110	NO
19	13C-1,2,3,7,8-PeCDD	7.22e5	8.19e5	0.63	0.63	NO	0.7847	30.67	30.73	NO	1.215	1.219	112	112	NO
20	13C-1,2,3,4,7,8-HxCDD	5.28e5	7.82e5	1.24	1.30	NO	0.6205	34.05	34.04	NO	1.014	1.014	109	109	NO
21	13C-1,2,3,6,7,8-HxCDD	6.18e5	7.82e5	1.24	1.27	NO	0.7340	34.19	34.18	NO	1.018	1.017	107	107	NO
22	13C-1,2,3,7,8,9-HxCDD	5.99e5	7.82e5	1.24	1.24	NO	0.7225	34.43	34.43	NO	1.025	1.025	106	106	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.93e5	7.82e5	1.04	1.04	NO	0.5877	37.90	37.91	NO	1.129	1.129	111	111	NO
24	13C-OCDD	8.50e5	7.82e5	0.89	0.89	NO	0.4958	40.86	40.80	NO	1.217	1.215	219	110	NO
25	13C-2,3,7,8-TCDF	1.37e6	1.36e6	0.77	0.79	NO	0.9190	25.29	25.28	NO	1.003	1.003	110	110	NO
26	13C-1,2,3,7,8-PeCDF	1.11e6	1.36e6	1.55	1.57	NO	0.7151	29.40	29.46	NO	1.166	1.169	114	114	NO
27	13C-2,3,4,7,8-PeCDF	1.06e6	1.36e6	1.55	1.59	NO	0.6885	30.46	30.53	NO	1.208	1.211	114	114	NO
28	13C-1,2,3,4,7,8-HxCDF	7.38e5	7.82e5	0.51	0.51	NO	0.8724	33.14	33.14	NO	0.987	0.987	108	108	NO
29	13C-1,2,3,6,7,8-HxCDF	7.93e5	7.82e5	0.51	0.50	NO	0.9335	33.27	33.28	NO	0.991	0.991	109	109	NO



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302



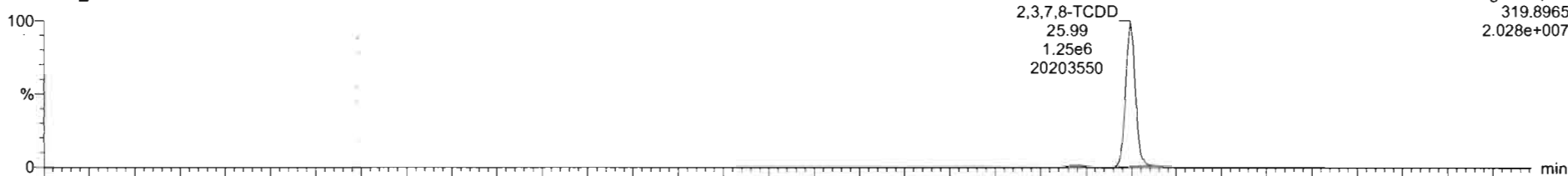
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

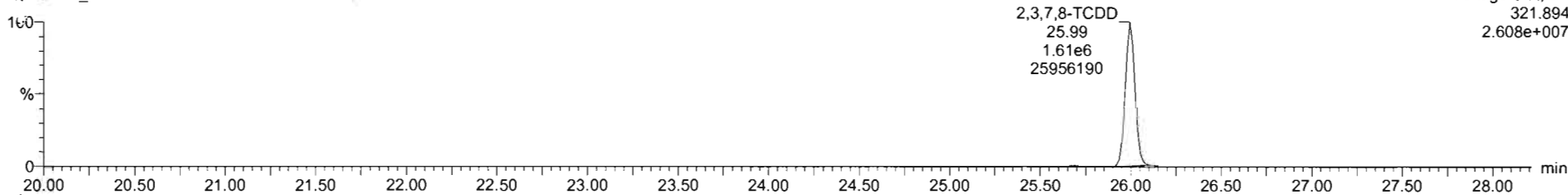
Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

2,3,7,8-TCDD

201203R2_5

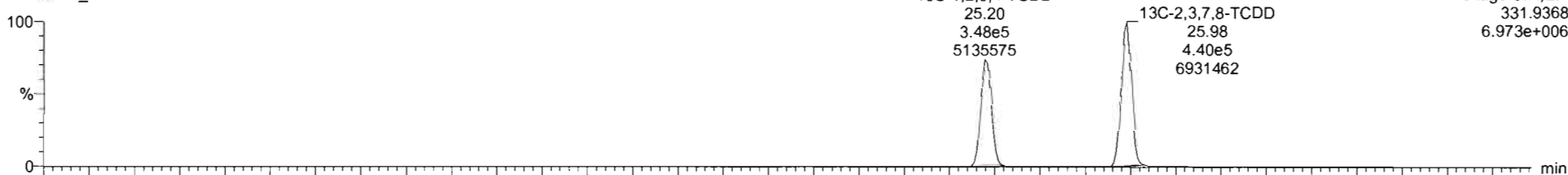


201203R2_5

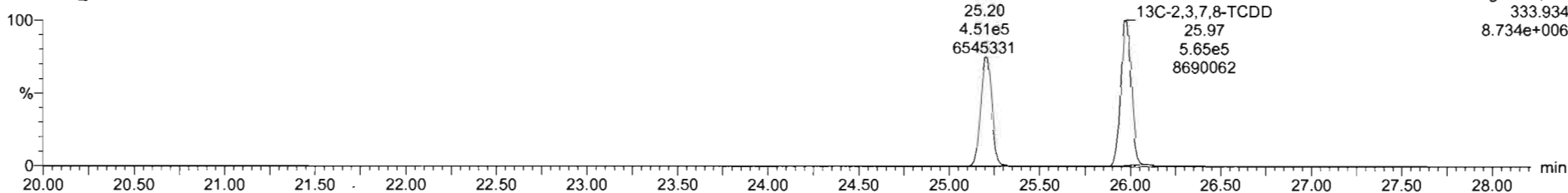


¹³C-2,3,7,8-TCDD

201203R2_5



201203R2_5



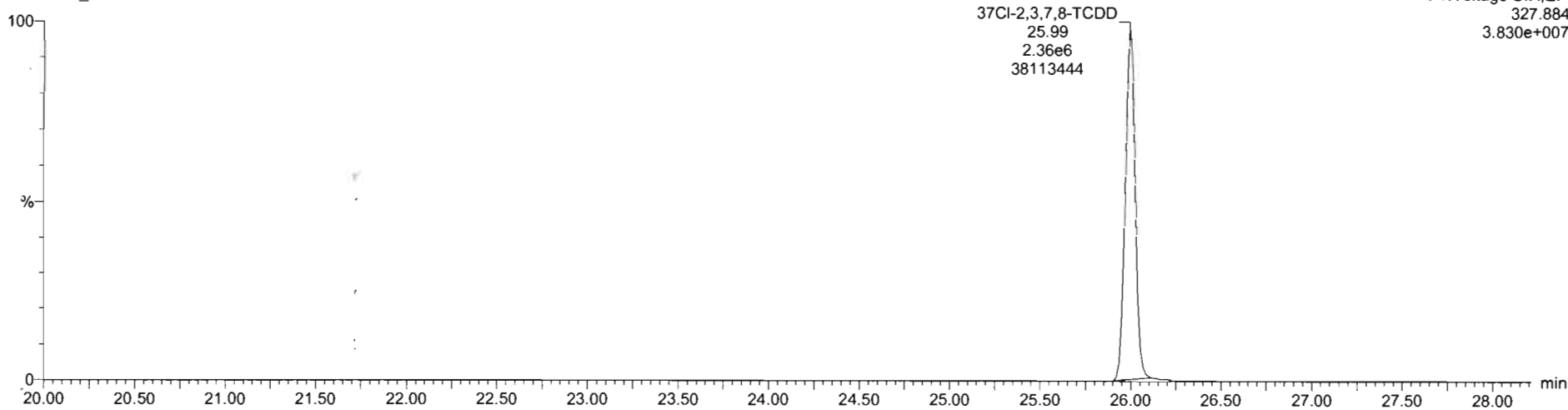
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

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

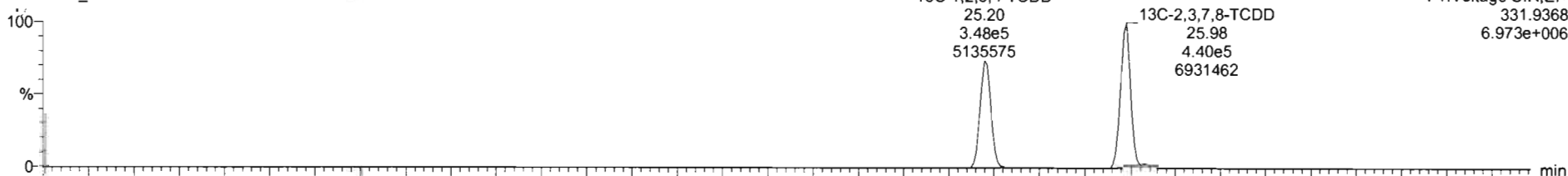
201203R2_5



F1:Voltage SIR,EI+
327.884
3.830e+007

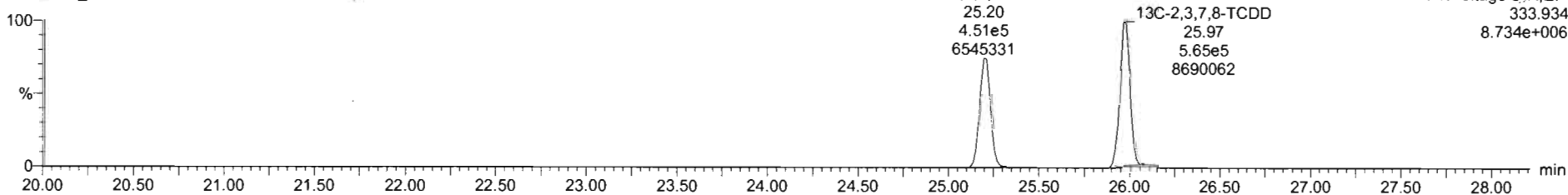
13C-1,2,3,4-TCDD

201203R2_5



F1:Voltage SIR,EI+
331.9368
6.973e+006

201203R2_5



F1:Voltage S,R,EI+
333.934
8.734e+006

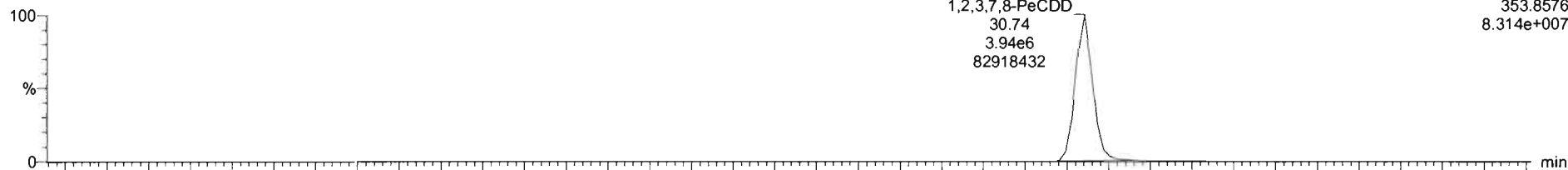
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

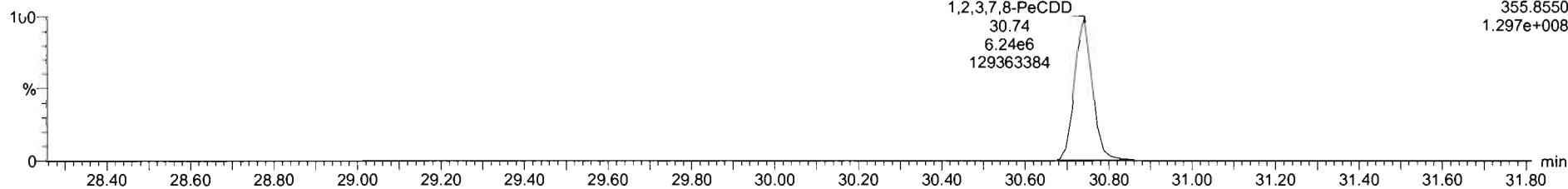
Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

1,2,3,7,8-PeCDD

201203R2_5

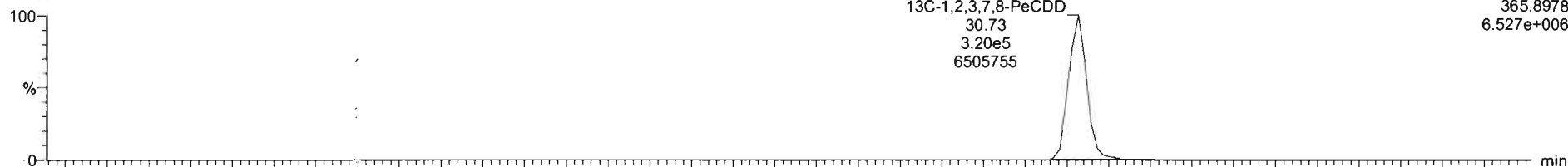


201203R2_5

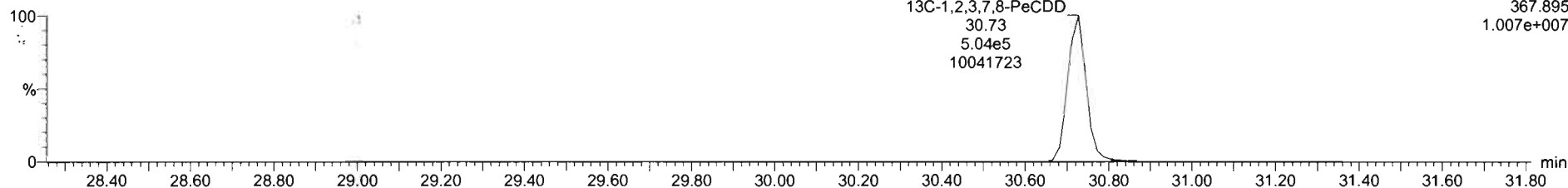


13C-1,2,3,7,8-PeCDD

201203R2_5



201203R2_5



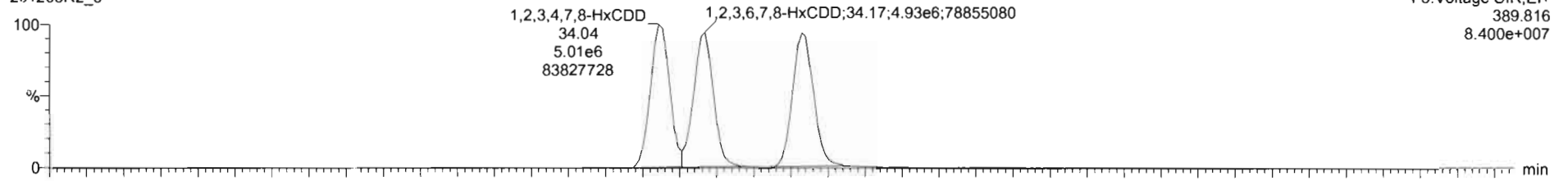
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

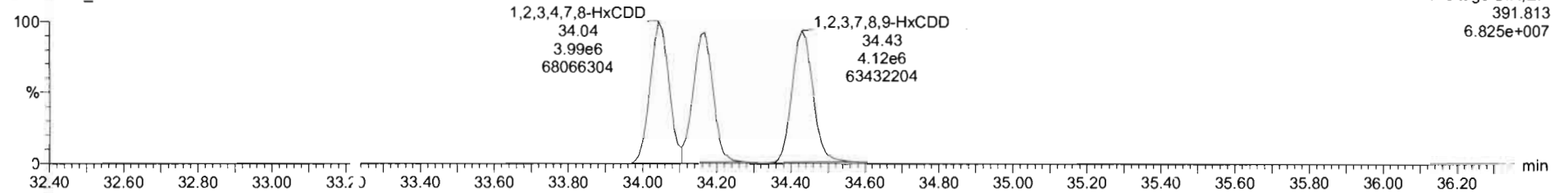
Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

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

201203R2_5

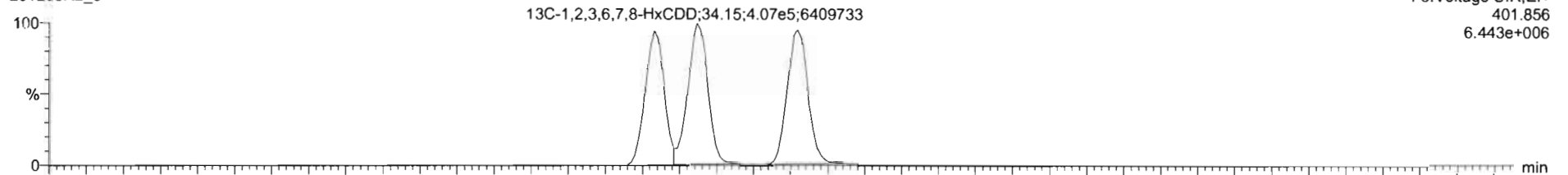


201203R2_5

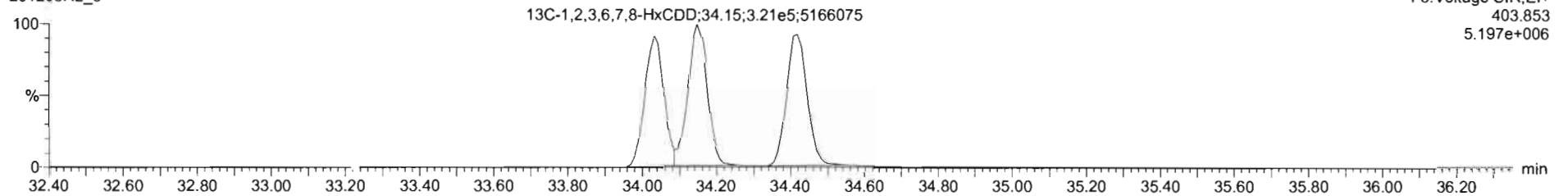


13C-1,2,3,4,7,8-HxCDD

201203R2_5



201203R2_5



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

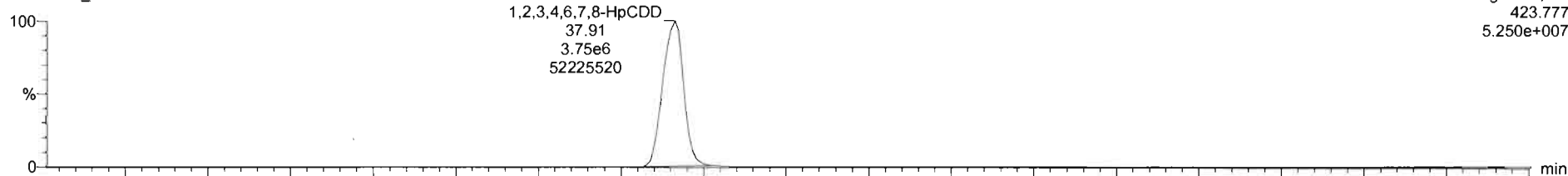
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

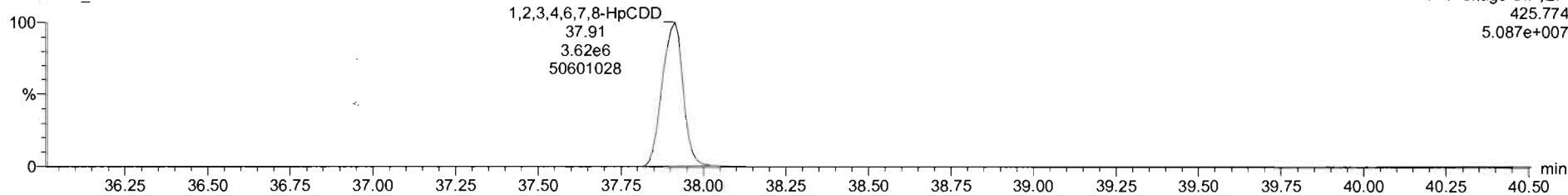
1,2,3,4,6,7,8-HpCDD

201203R2_5



F4: Voltage SIR, EI+
423.777
5.250e+007

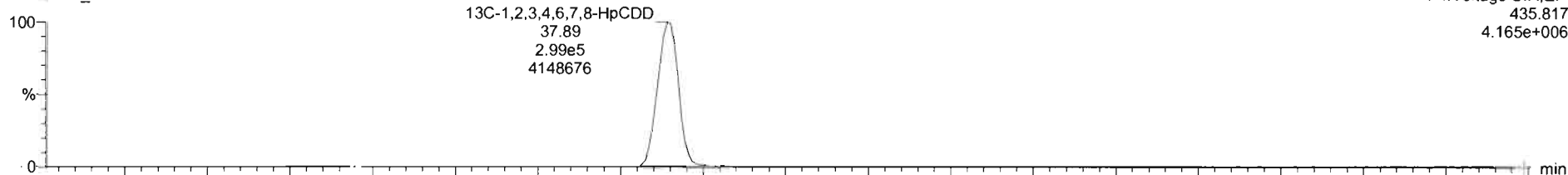
201203R2_5



F4: Voltage SIR, EI+
425.774
5.087e+007

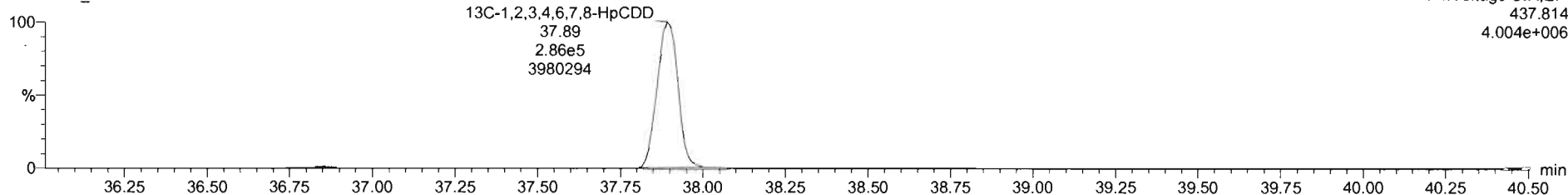
13C-1,2,3,4,6,7,8-HpCDD

201203R2_5



F4: Voltage SIR, EI+
435.817
4.165e+006

201203R2_5



F4: Voltage SIR, EI+
437.814
4.004e+006

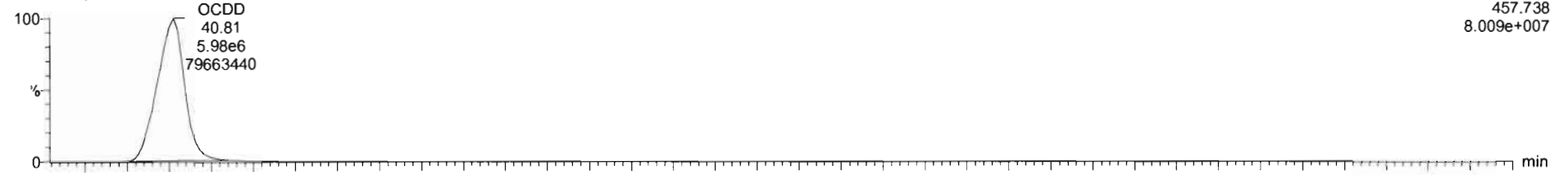
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

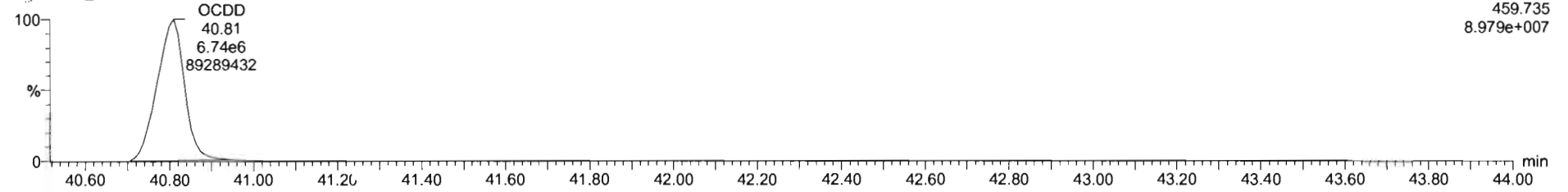
OCDD

201203R2_5



F5:Voltage SIR,EI+
457.738
8.009e+007

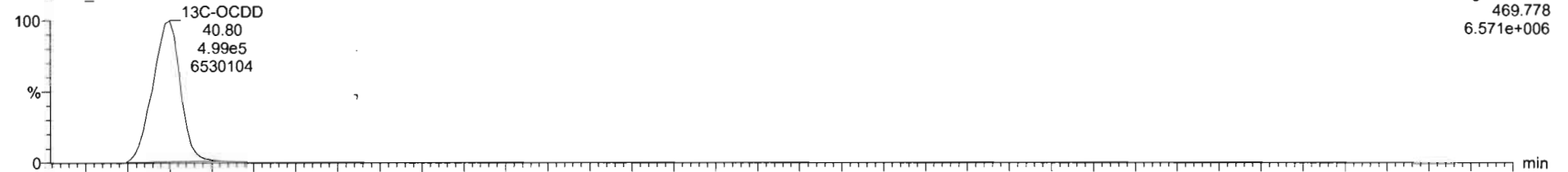
201203R2_5



F5:Voltage SIR,EI+
459.735
8.979e+007

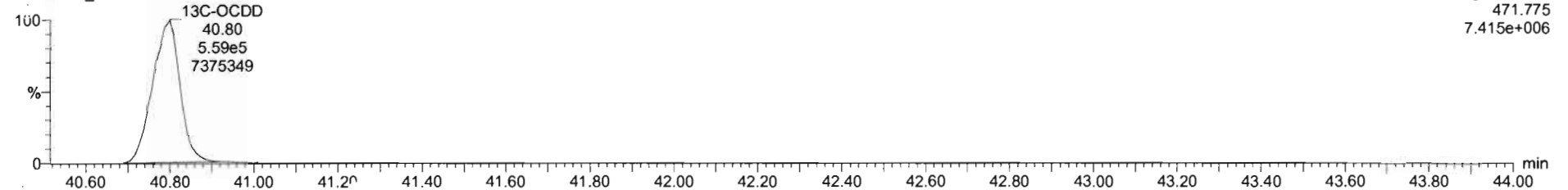
13C-OCDD

201203R2_5



F5:Voltage SIR,EI+
469.778
6.571e+006

201203R2_5



F5:Voltage SIR,EI+
471.775
7.415e+006

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

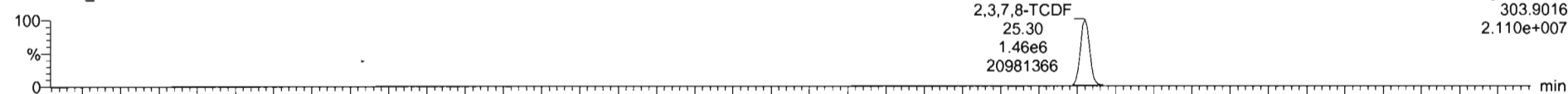
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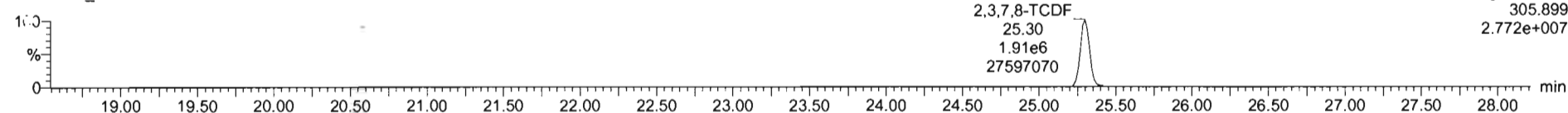
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2,3,7,8-TCDF

201203R2_5

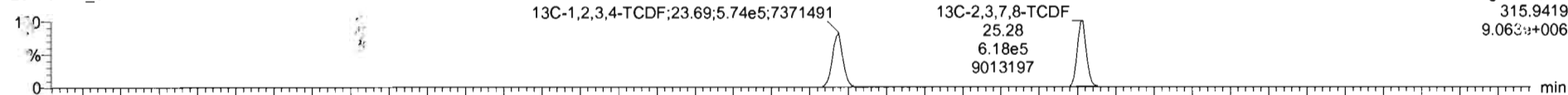


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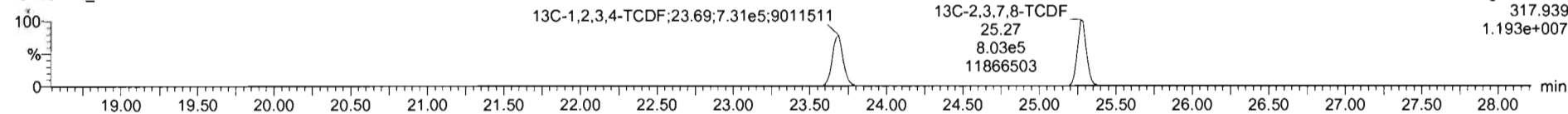


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201203R2_5

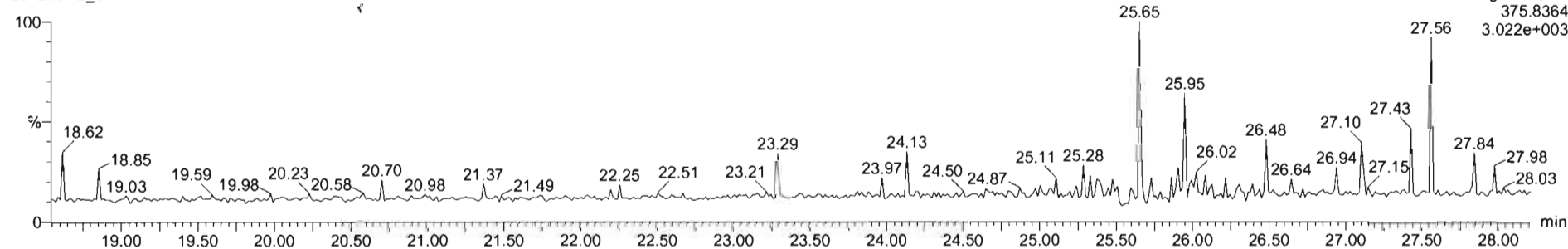


201203R2_5



DPE1

201203R2_5



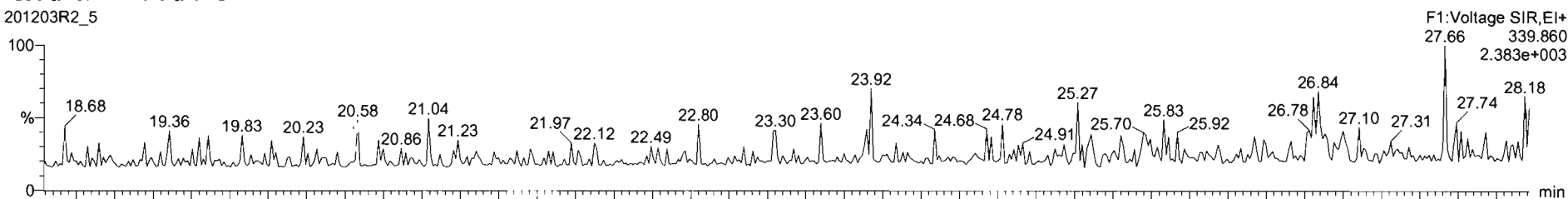
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

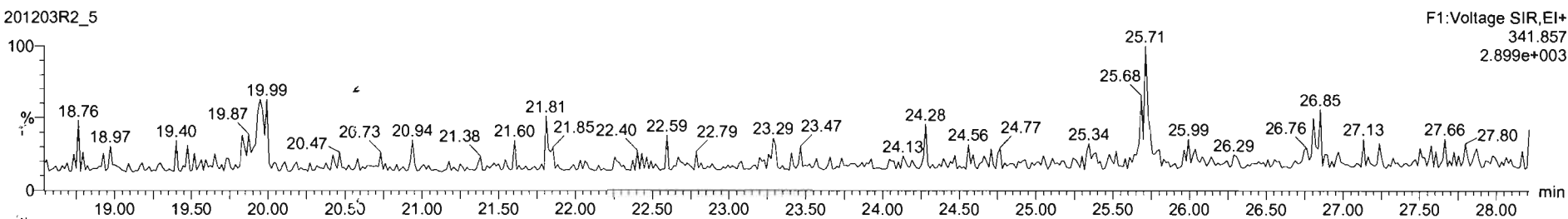
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1st Func. Penta-Furans

201203R2_5

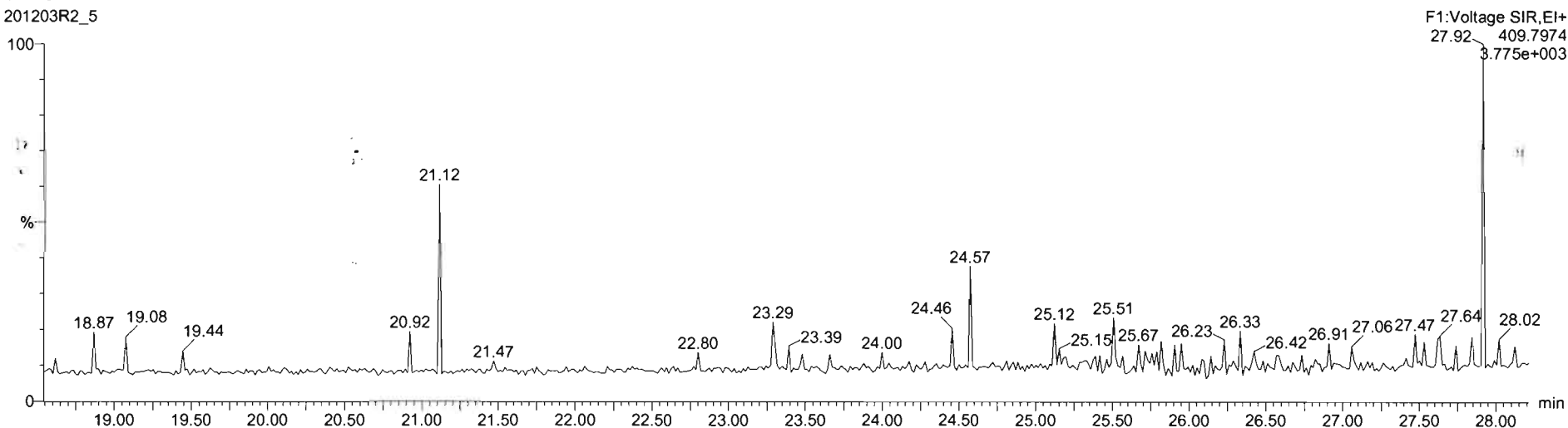


201203R2_5



DPE6

201203R2_5



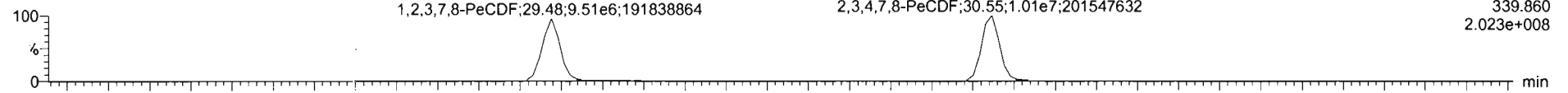
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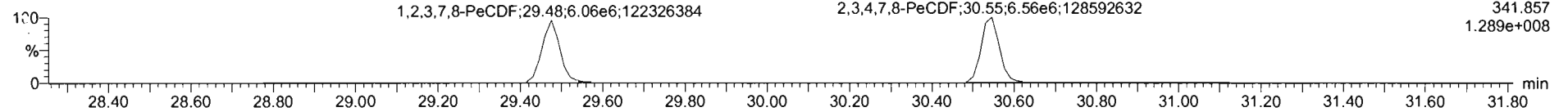
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1,2,3,7,8-PeCDF

201203R2_5

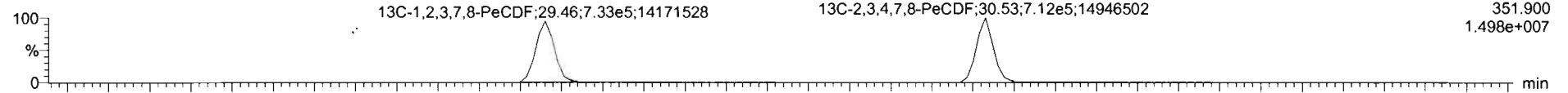


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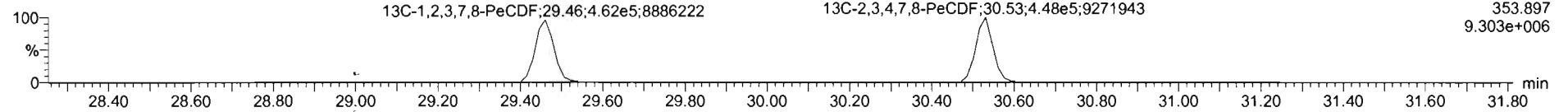


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201203R2_5

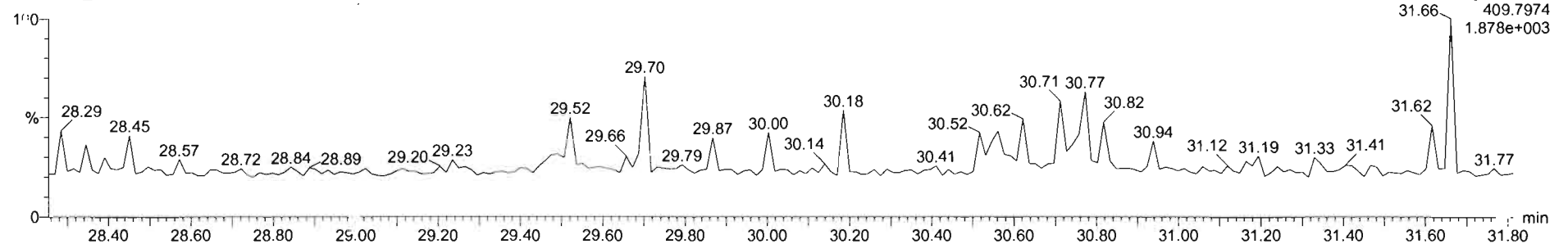


201203R2_5



DPE2

201203R2_5



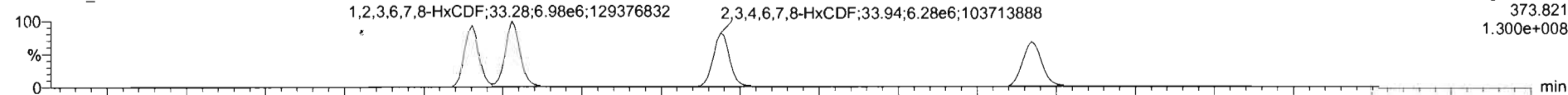
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
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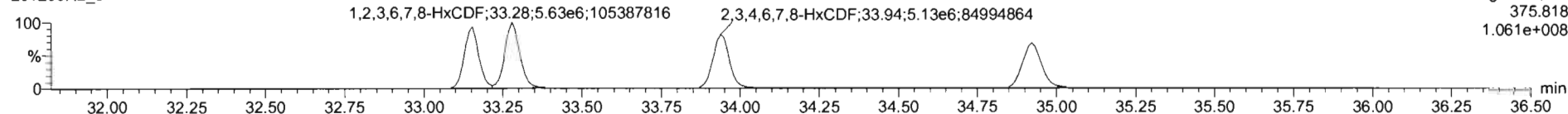
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1,2,3,4,7,8-HxCDF

201203R2_5

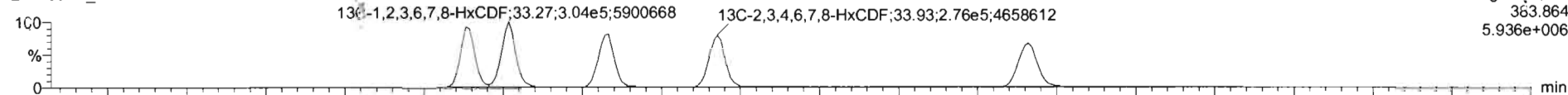


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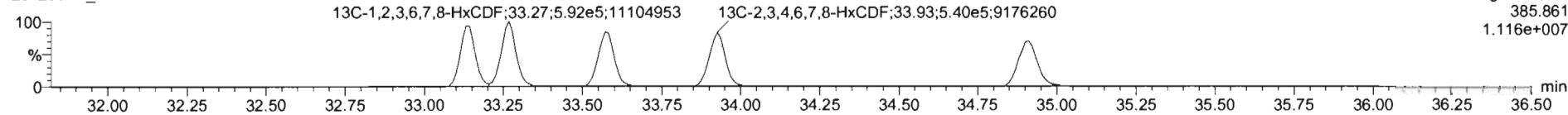


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201203R2_5

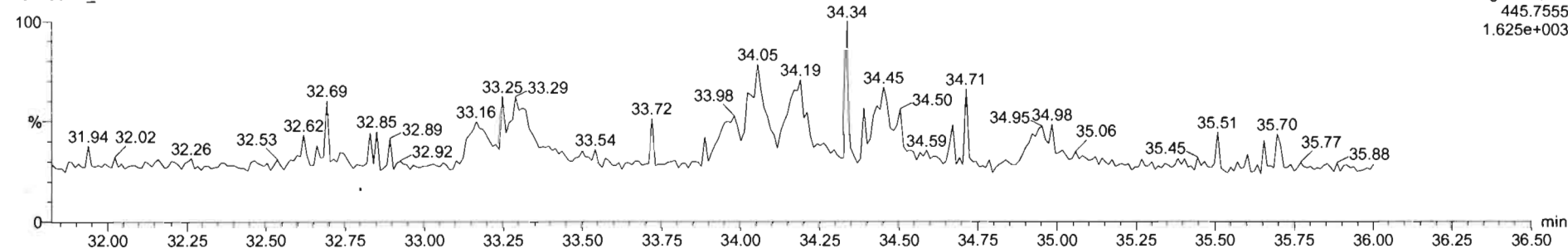


201203R2_5



DPE3

201203R2_5

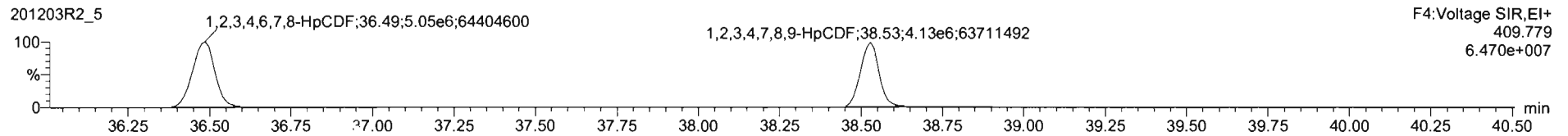
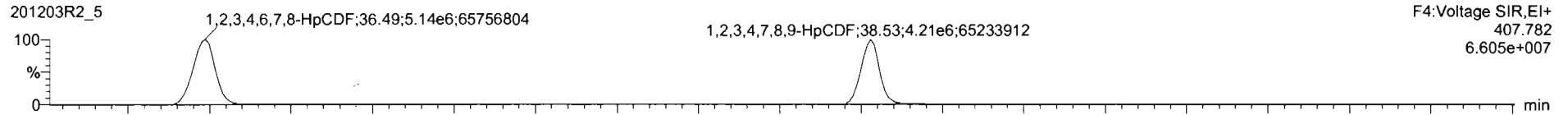


D .taset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

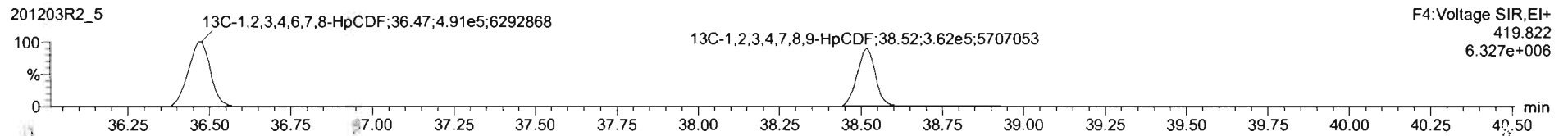
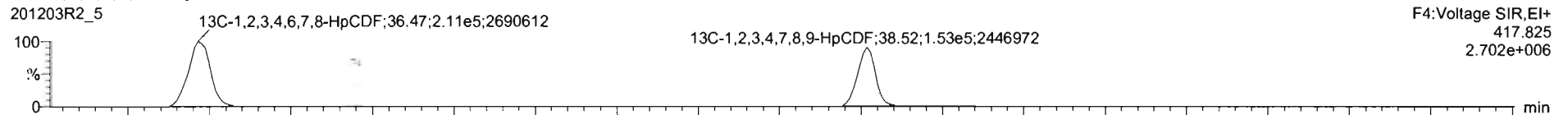
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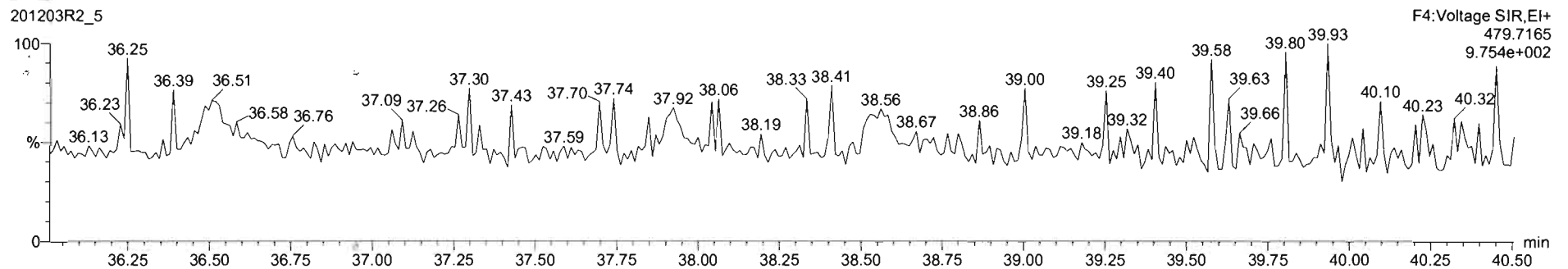
1,2,3,4,6,7,8-HpCDF



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



DPE4

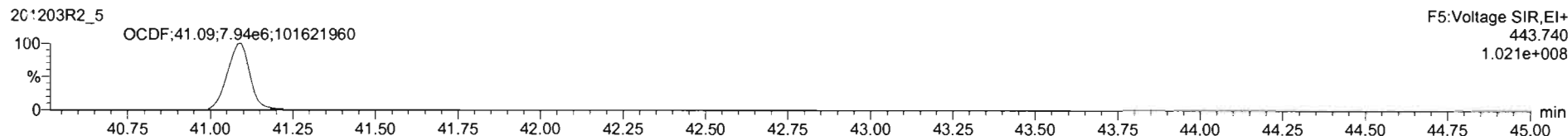
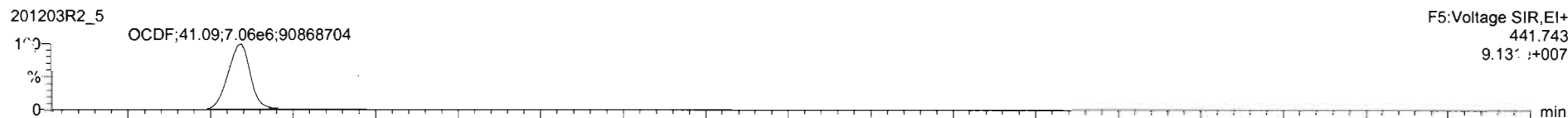


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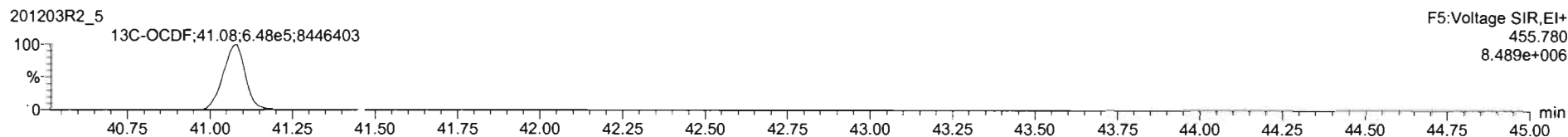
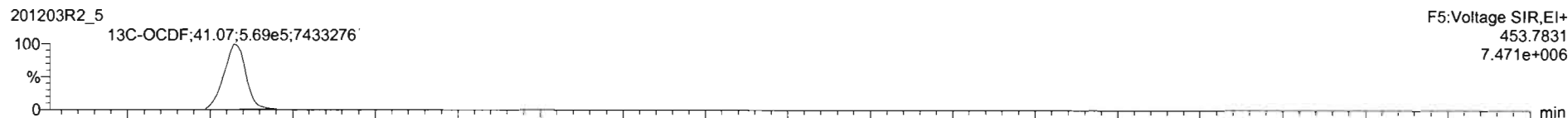
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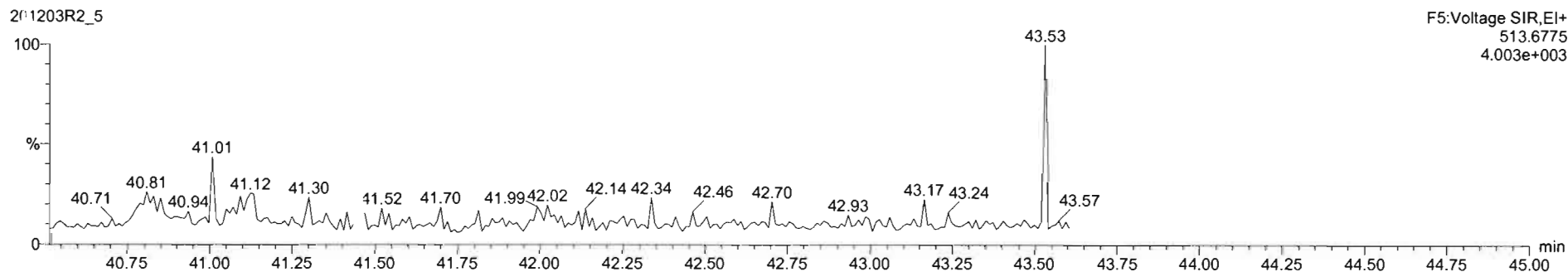
OCDF



13C-OCDF



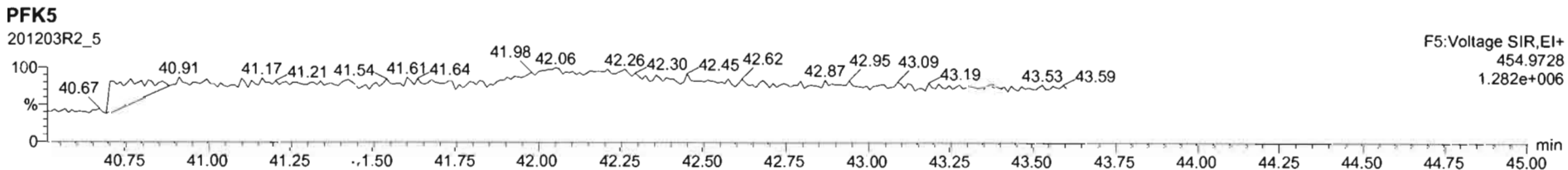
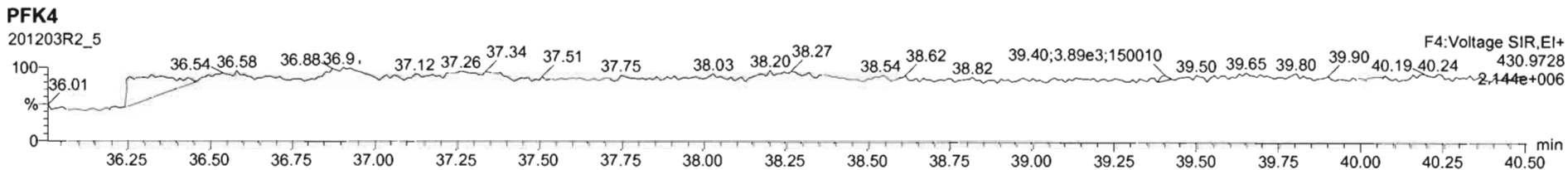
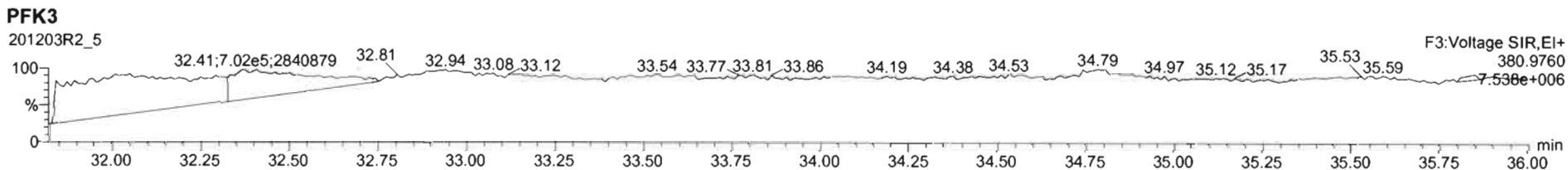
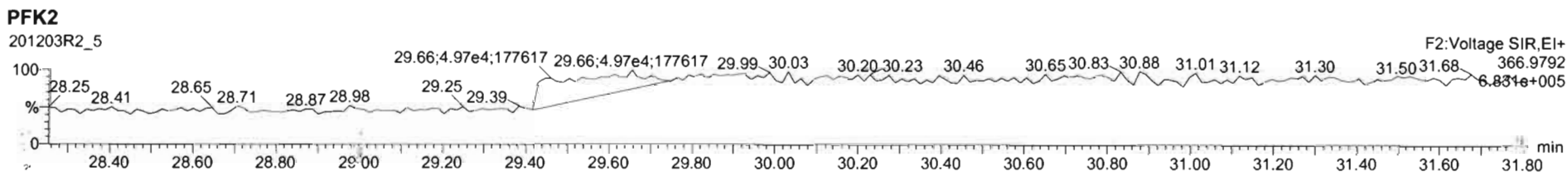
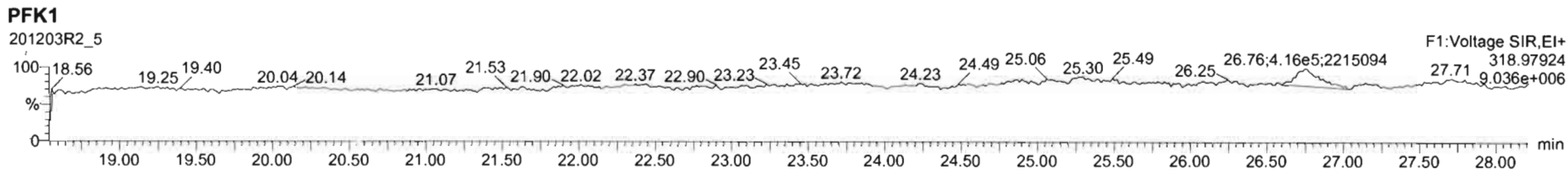
DPE5



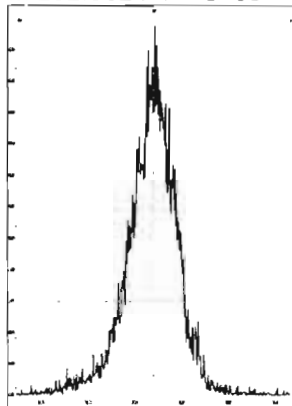
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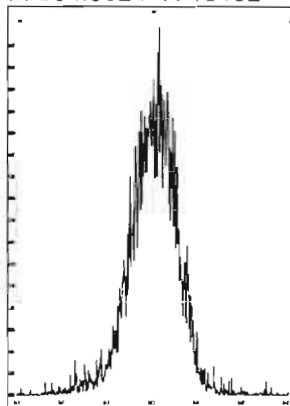
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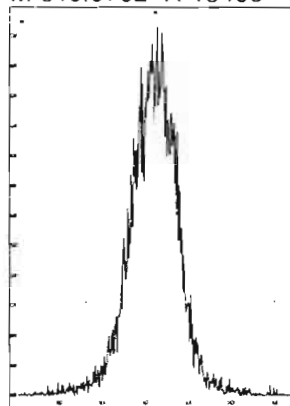
M 292.9824 R 13305



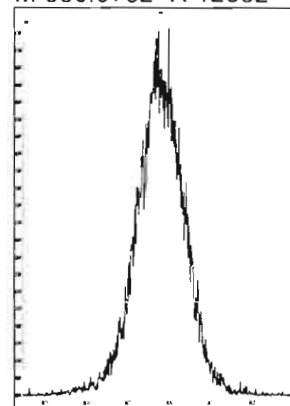
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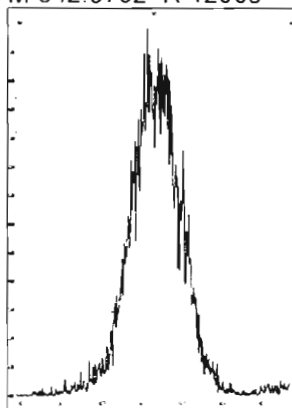
M 318.9792 R 13406



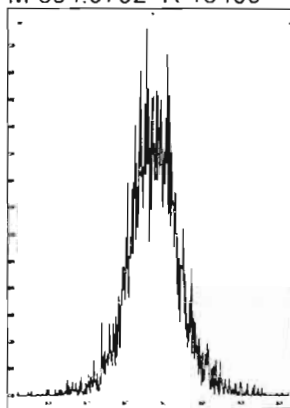
M 330.9792 R 12562



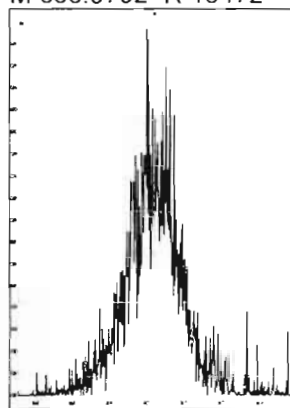
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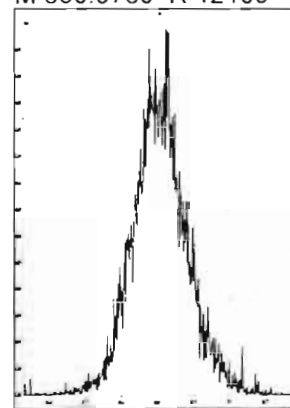
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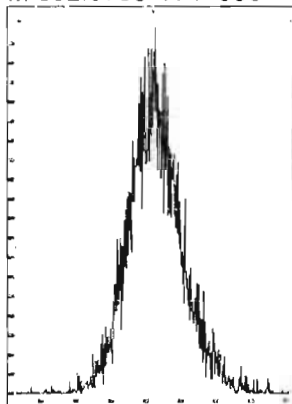
M 366.9792 R 13472



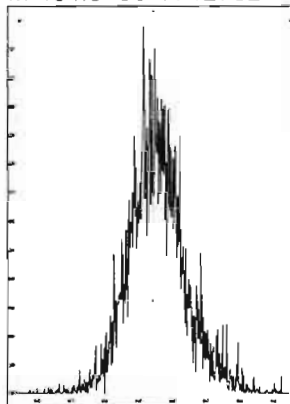
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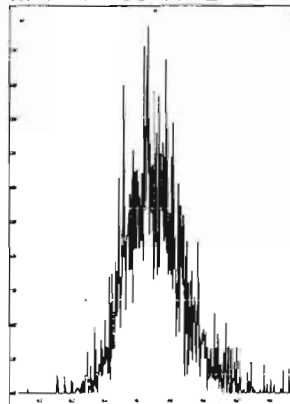
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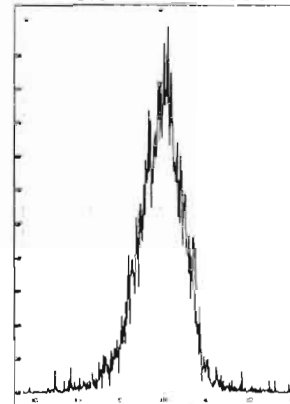
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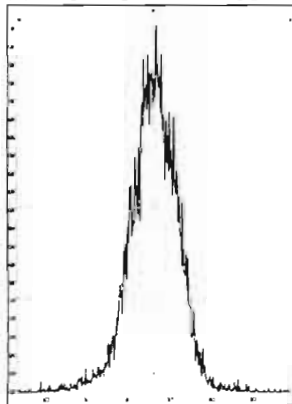
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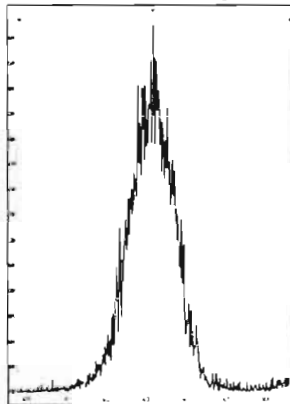
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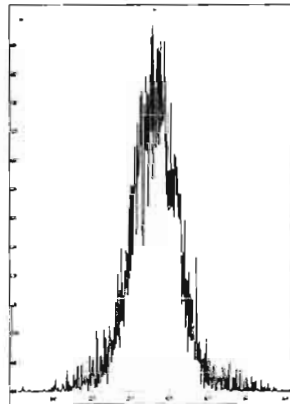
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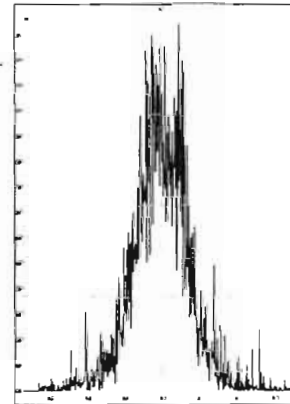
M 342.9792 R 12872



M 354.9792 R 14296

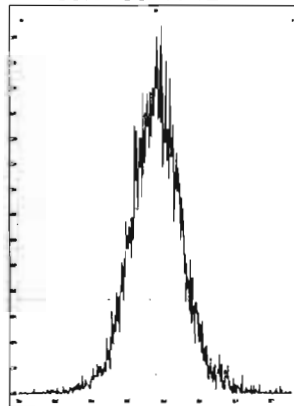


M 366.9792 R 14931

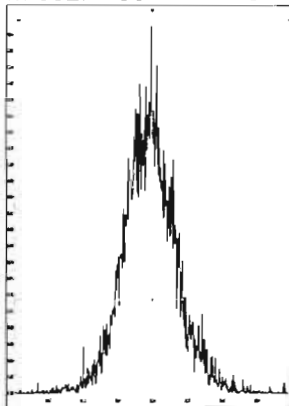


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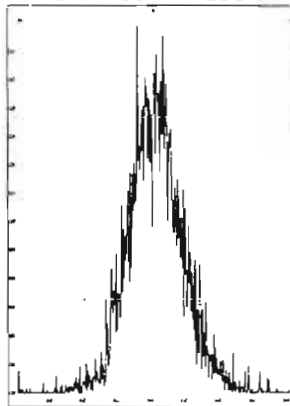
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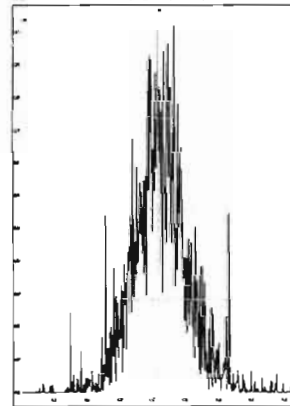
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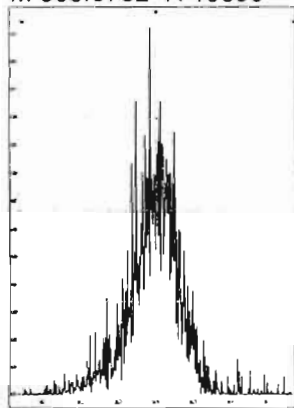
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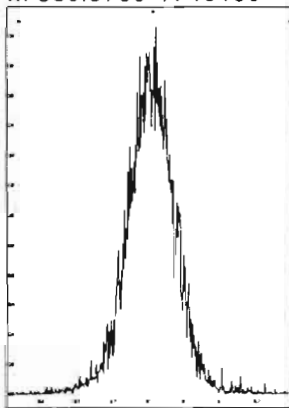
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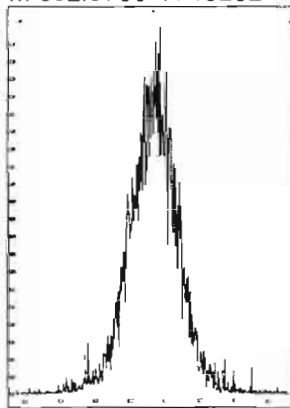
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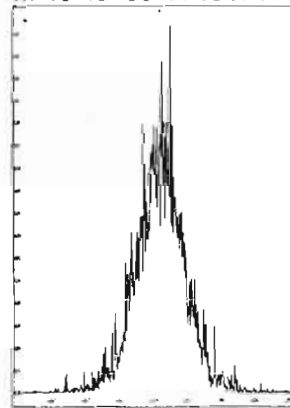
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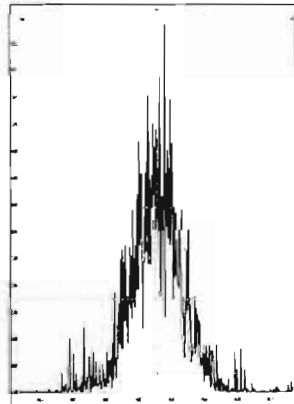
M 392.9760 R 13262



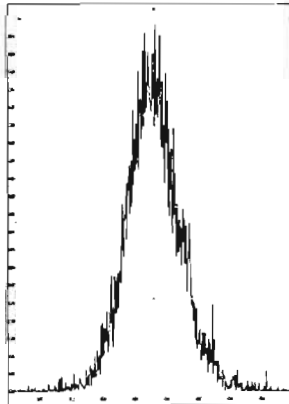
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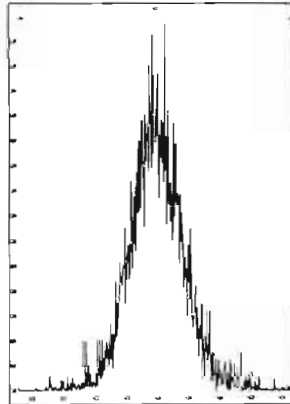
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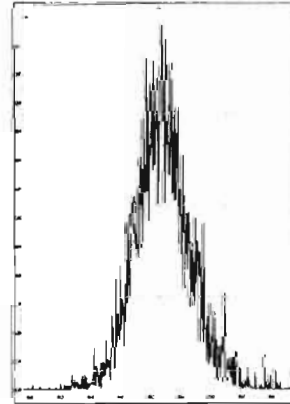
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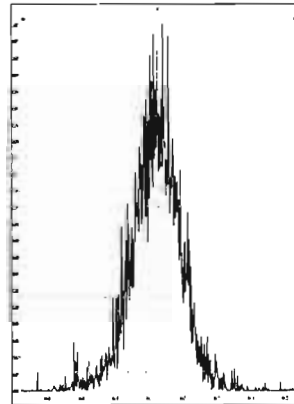
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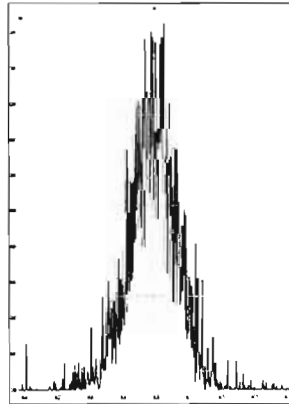
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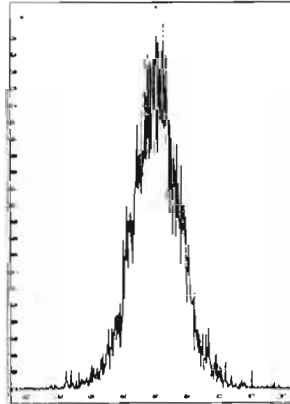
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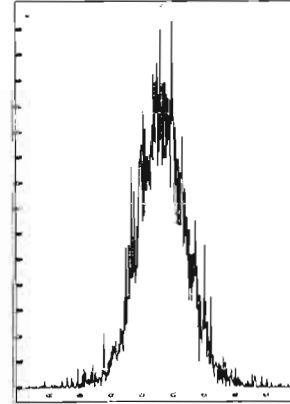
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M 430.9728 R 13311

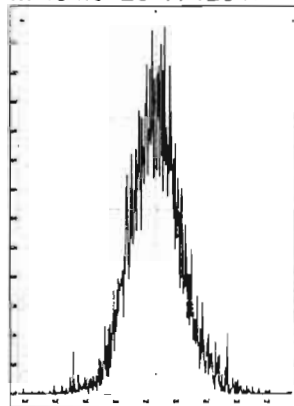


M 442.9728 R 13454

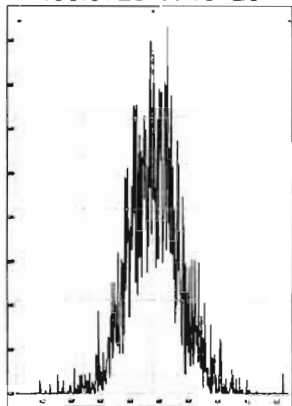


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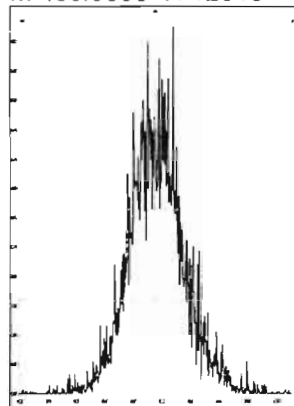
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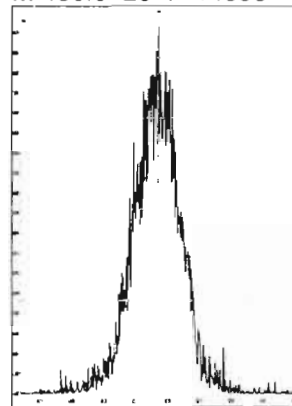
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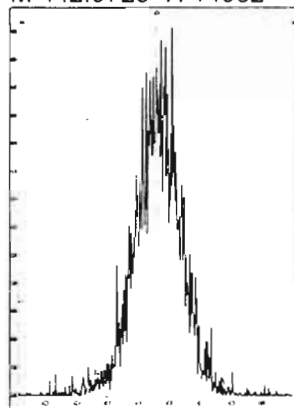
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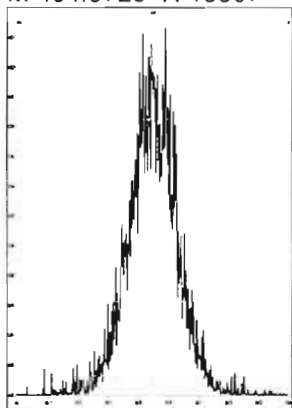
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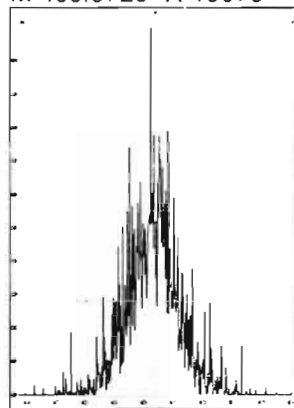
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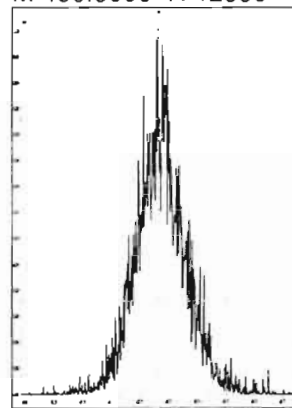
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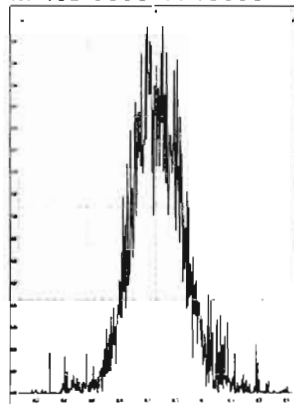
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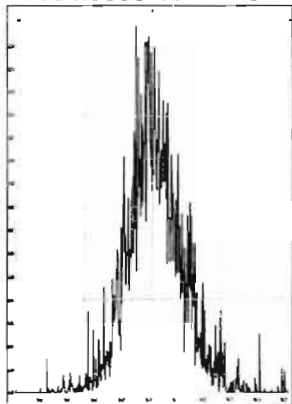
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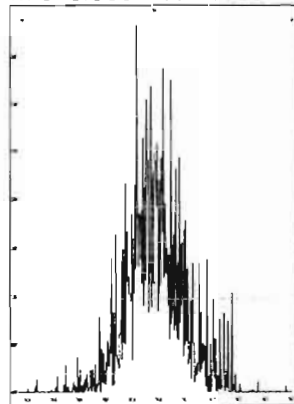
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M 504.9696 R 12886



M 516.9697 R 14159



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

Last Altered: Friday, December 04, 2020 11:51:09 Pacific Standard Time

Printed: Friday, December 04, 2020 11:57:34 Pacific Standard Time

HN 12/04/2020

GRB 12/08/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

#	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	8.12e4	0.75	NO	0.980	1.000	26.008	26.01	1.001	1.001	11.221	112	0.0338	11.2
2	2 1,2,3,7,8-PeCDD	2.78e5	0.63	NO	0.932	1.000	30.751	30.76	1.000	1.000	57.143	114	0.109	57.1
3	3 1,2,3,4,7,8-HxCDD	2.27e5	1.26	NO	1.02	1.000	34.053	34.05	1.000	1.000	57.544	115	0.126	57.5
4	4 1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.902	1.000	34.168	34.18	1.000	1.001	62.459	125	0.119	62.5
5	5 1,2,3,7,8,9-HxCDD	2.43e5	1.27	NO	0.954	1.000	34.440	34.45	1.000	1.001	58.002	116	0.129	58.0
6	6 1,2,3,4,6,7,8-HpCDD	1.75e5	1.04	NO	0.918	1.000	37.902	37.91	1.000	1.000	54.920	110	0.206	54.9
7	7 OCDD	3.13e5	0.90	NO	0.866	1.000	40.810	40.81	1.000	1.000	123.69	124	0.226	124
8	8 2,3,7,8-TCDF	1.01e5	0.74	NO	0.848	1.000	25.292	25.30	1.000	1.001	10.949	109	0.0323	10.9
9	9 1,2,3,7,8-PeCDF	4.31e5	1.59	NO	0.960	1.000	29.485	29.49	1.000	1.001	55.891	112	0.145	55.9
10	10 2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.07	1.000	30.546	30.56	1.000	1.000	61.255	123	0.126	61.3
11	11 1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.986	1.000	33.153	33.16	1.000	1.000	61.557	123	0.127	61.6
12	12 1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.04	1.000	33.278	33.30	1.000	1.001	58.959	118	0.121	59.0
13	13 2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.02	1.000	33.941	33.95	1.000	1.000	61.252	123	0.143	61.3
14	14 1,2,3,7,8,9-HxCDF	2.66e5	1.23	NO	0.991	1.000	34.922	34.94	1.000	1.001	57.127	114	0.209	57.1
15	15 1,2,3,4,6,7,8-HpCDF	2.70e5	1.01	NO	1.05	1.000	36.490	36.50	1.000	1.000	60.349	121	0.233	60.3
16	16 1,2,3,4,7,8,9-HpCDF	1.98e5	1.01	NO	1.18	1.000	38.528	38.54	1.000	1.000	57.224	114	0.262	57.2
17	17 OCDF	3.54e5	0.90	NO	0.896	1.000	41.100	41.10	1.000	1.000	118.85	119	0.359	119
18	18 13C-2,3,7,8-TCDD	7.38e5	0.78	NO	1.06	1.000	25.952	25.98	1.030	1.031	101.50	102	0.148	
19	19 13C-1,2,3,7,8-PeCDD	5.22e5	0.62	NO	0.785	1.000	30.648	30.74	1.216	1.220	96.571	96.6	0.135	
20	20 13C-1,2,3,4,7,8-HxCDD	3.87e5	1.28	NO	0.621	1.000	34.048	34.04	1.014	1.014	103.46	103	0.285	
21	21 13C-1,2,3,6,7,8-HxCDD	4.58e5	1.29	NO	0.734	1.000	34.186	34.16	1.018	1.017	103.62	104	0.241	
22	22 13C-1,2,3,7,8,9-HxCDD	4.38e5	1.28	NO	0.723	1.000	34.428	34.43	1.025	1.025	100.66	101	0.245	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.48e5	1.06	NO	0.568	1.000	37.904	37.90	1.129	1.129	101.76	102	0.392	
24	24 13C-OCDD	5.85e5	0.90	NO	0.496	1.000	40.862	40.81	1.217	1.215	195.89	97.9	0.404	
25	25 13C-2,3,7,8-TCDF	1.08e6	0.78	NO	0.919	1.000	25.276	25.28	1.003	1.004	103.53	104	0.146	
26	26 13C-1,2,3,7,8-PeCDF	8.04e5	1.61	NO	0.715	1.000	29.386	29.48	1.166	1.170	98.865	98.9	0.247	
27	27 13C-2,3,4,7,8-PeCDF	7.69e5	1.59	NO	0.689	1.000	30.439	30.55	1.208	1.212	98.136	98.1	0.256	
28	28 13C-1,2,3,4,7,8-HxCDF	5.30e5	0.51	NO	0.873	1.000	33.142	33.15	0.987	0.987	100.67	101	0.314	
29	29 13C-1,2,3,6,7,8-HxCDF	5.72e5	0.51	NO	0.933	1.000	33.273	33.28	0.991	0.991	101.77	102	0.294	
30	30 13C-2,3,4,6,7,8-HxCDF	5.23e5	0.51	NO	0.843	1.000	33.941	33.94	1.011	1.011	102.97	103	0.326	
31	31 13C-1,2,3,7,8,9-HxCDF	4.69e5	0.51	NO	0.780	1.000	34.935	34.92	1.040	1.040	99.930	99.9	0.352	

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

Last Altered: Friday, December 04, 2020 11:51:09 Pacific Standard Time

Printed: Friday, December 04, 2020 11:57:34 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

	# 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	4.26e5	0.42	NO	0.726	1.000	36.500	36.49	1.087	1.086	97.268	97.3	0.265	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.94e5	0.42	NO	0.491	1.000	38.532	38.53	1.147	1.147	99.221	99.2	0.391	
34	34 13C-OCDF	6.65e5	0.87	NO	0.565	1.000	41.144	41.09	1.225	1.224	195.35	97.7	0.348	
35	35 37Cl-2,3,7,8-TCDD	9.13e4			1.22	1.000	25.952	25.99	1.030	1.032	10.891	109	0.0217	
36	36 13C-1,2,3,4-TCDD	6.89e5	0.77	NO	1.00	1.000	25.370	25.20	1.000	1.000	100.00	100	0.157	
37	37 13C-1,2,3,4-TCDF	1.14e6	0.78	NO	1.00	1.000	23.870	23.67	1.000	1.000	100.00	100	0.134	
38	38 13C-1,2,3,4,6,9-HxCDF	6.02e5	0.51	NO	1.00	1.000	33.710	33.58	1.000	1.000	100.00	100	0.274	

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

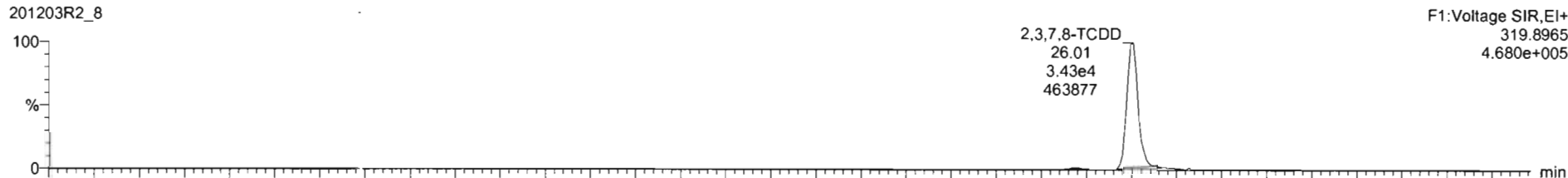
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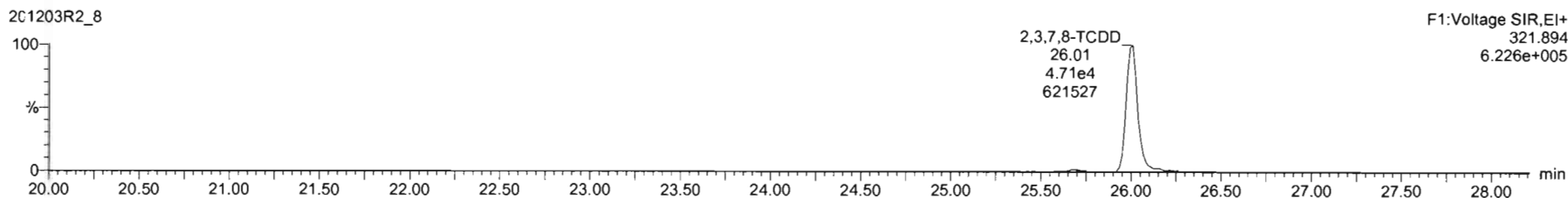
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2,3,7,8-TCDD

201203R2_8

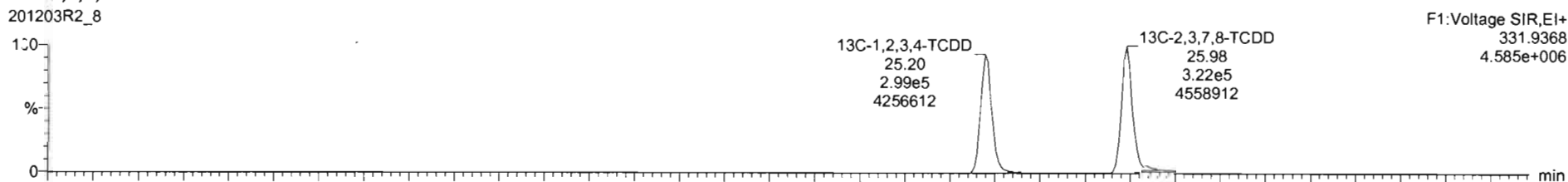


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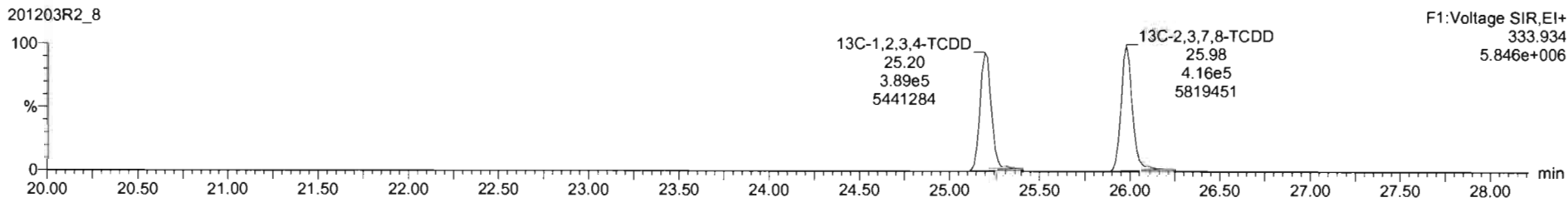


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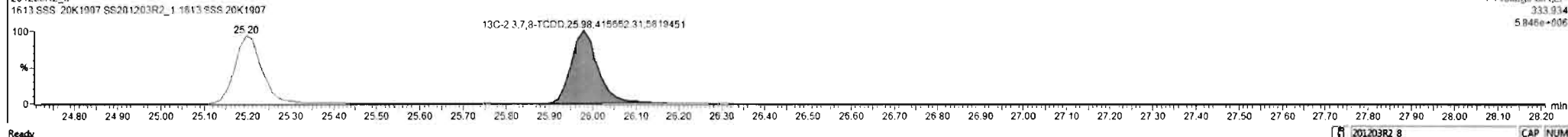
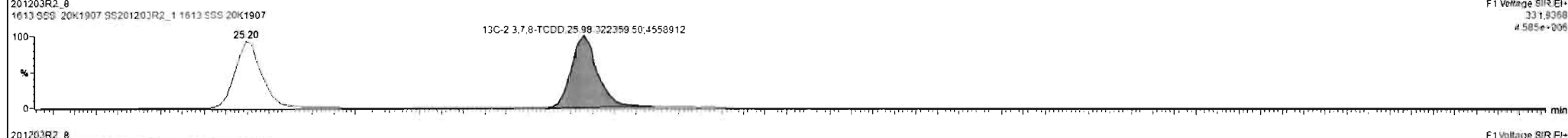
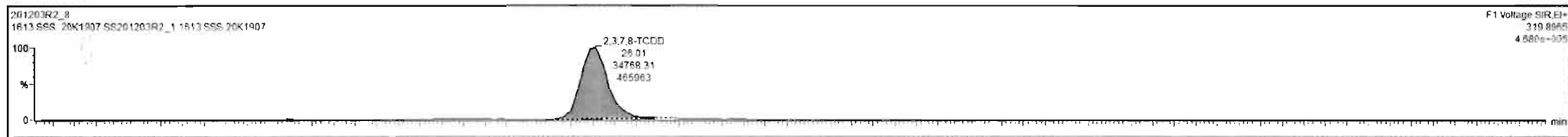
201203R2_8



201203R2_8



#	Name	Resp	RA	dy	RRF	wt/wt	R ²	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.12e4	0.75	NO	0.9805	1.000	26.01	1.001	11.2	112	0.0338	11.2
2	1,2,3,7,8-PeCDD	2.78e5	0.63	NO	0.9320	1.000	30.76	1.000	57.1	114	0.109	57.1
3	1,2,3,4,7,8-HxCDD	2.27e5	1.26	NO	1.0203	1.000	34.05	1.000	57.5	115	0.126	57.5
4	1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.9025	1.000	34.18	1.001	62.5	125	0.119	62.5
5	1,2,3,7,8-HxCDD	2.43e5	1.27	NO	0.9542	1.000	34.95	1.001	58.0	116	0.129	58.0
6	1,2,3,4,6,8-HpCDD	1.75e5	1.04	NO	0.9150	1.000	37.91	1.000	54.9	110	0.208	54.9
7	OCDD	3.13e5	0.90	NO	0.8658	1.000	40.81	1.000	124	124	0.226	124
8	2,3,7,8-TCDF	1.01e5	0.74	NO	0.8480	1.000	25.20	1.001	10.9	109	0.0323	10.9
9	1,2,3,7,8-PeCDF	4.31e5	1.59	NO	0.9597	1.000	29.49	1.001	55.9	112	0.145	55.9
10	2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.0671	1.000	30.56	1.000	61.3	123	0.126	61.3
11	1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.9859	1.000	33.16	1.000	61.6	123	0.127	61.6
12	1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.0388	1.000	33.20	1.001	59.0	118	0.121	59.0
13	2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.0202	1.000	33.95	1.000	61.3	123	0.143	61.3
14	1,2,3,7,8-HxCDF	2.86e5	1.23	NO	0.9909	1.000	34.94	1.001	57.1	114	0.209	57.1



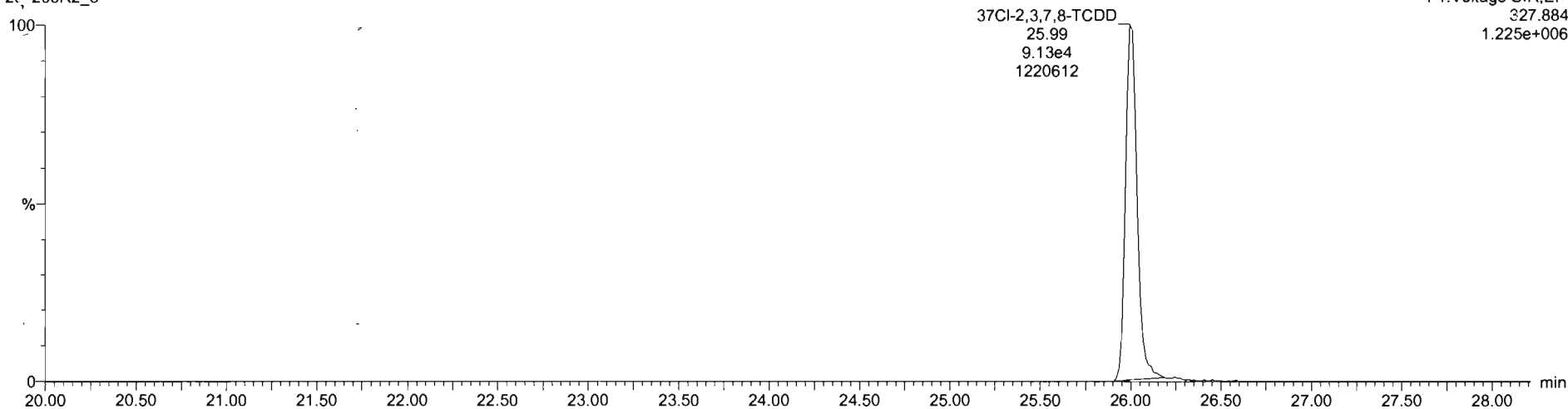
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

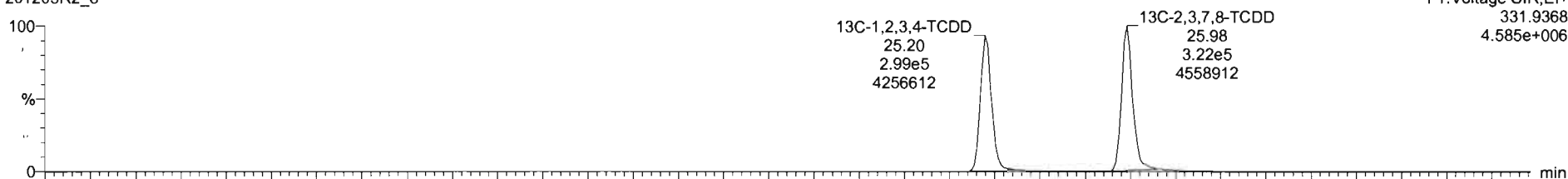
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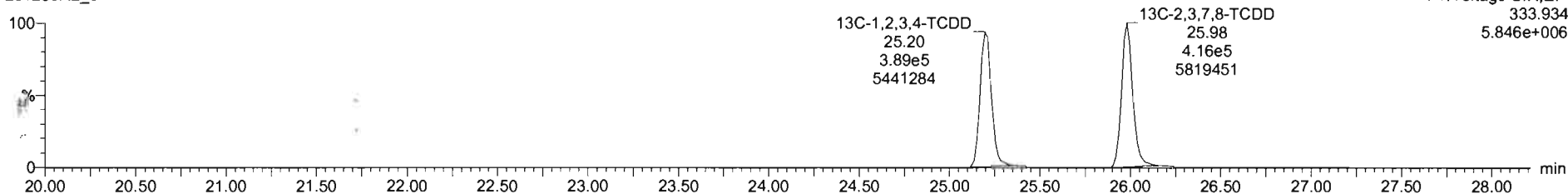


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201203R2_8



201203R2_8



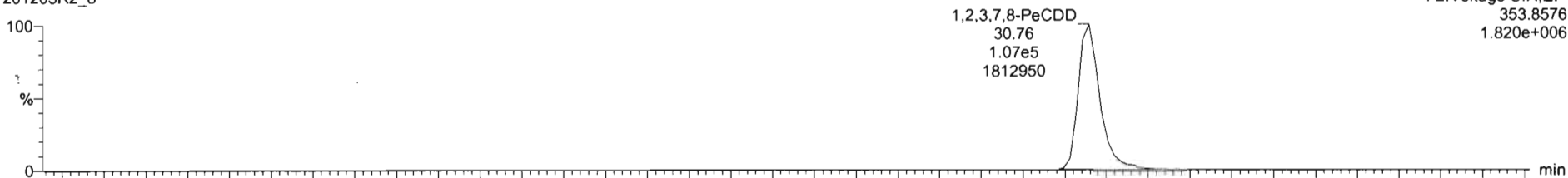
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
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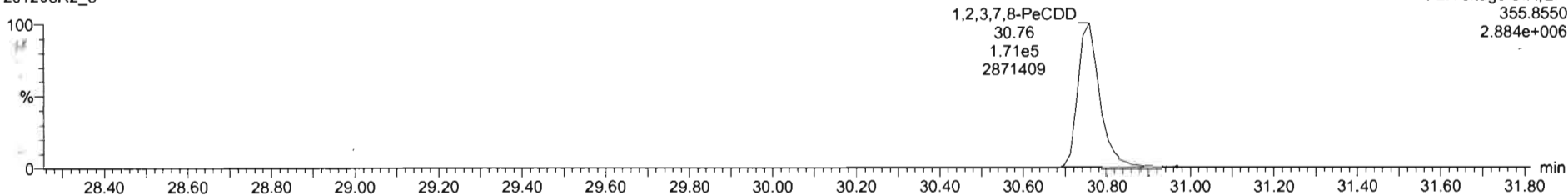
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1,2,3,7,8-PeCDD

201203R2_8

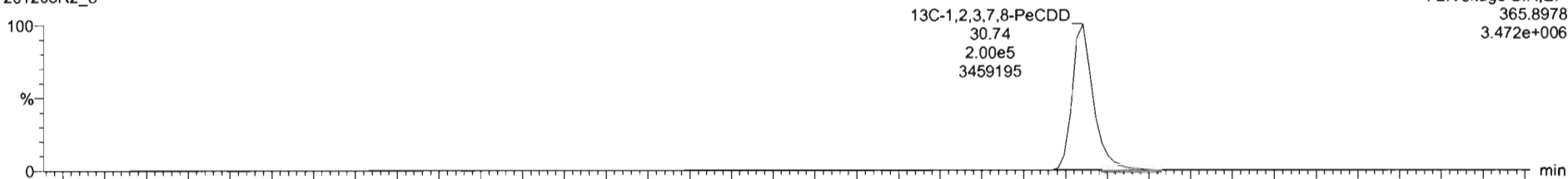


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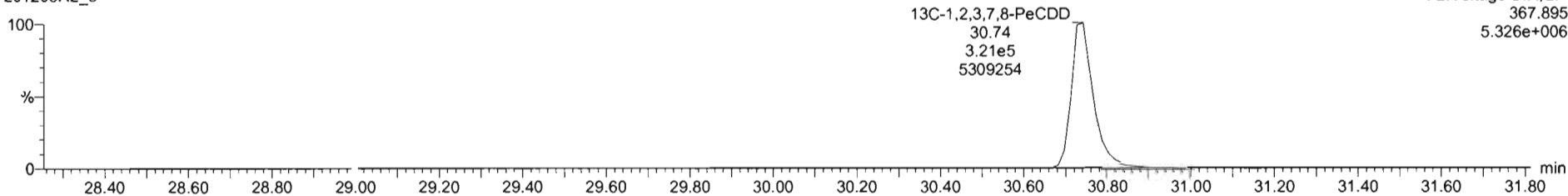


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201203R2_8



201203R2_8



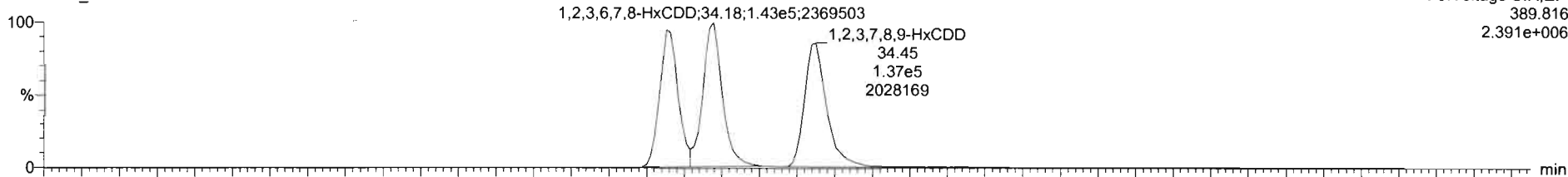
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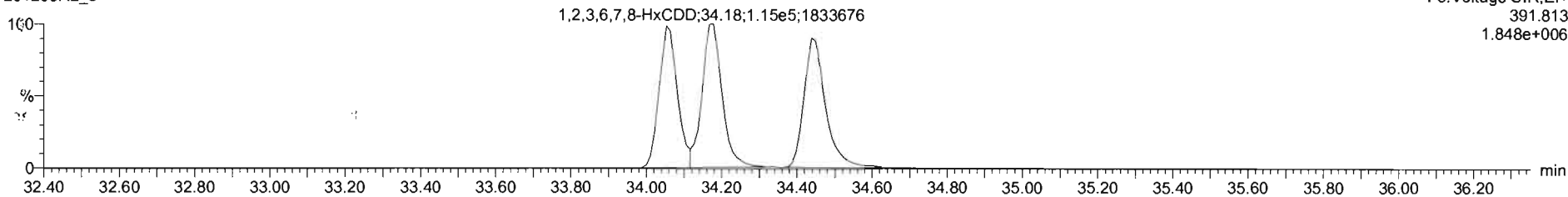
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1,2,3,4,7,8-HxCDD

201203R2_8

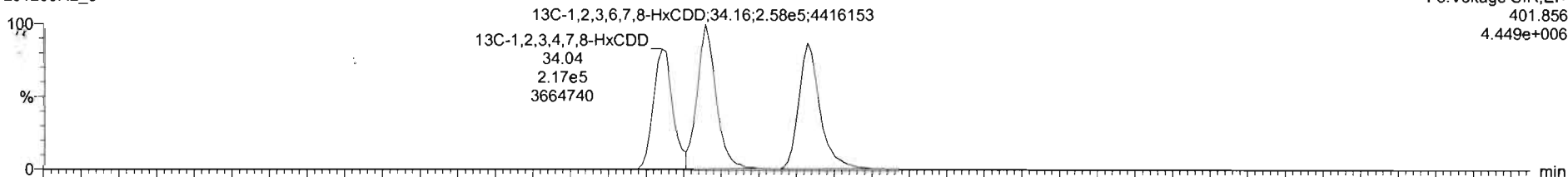


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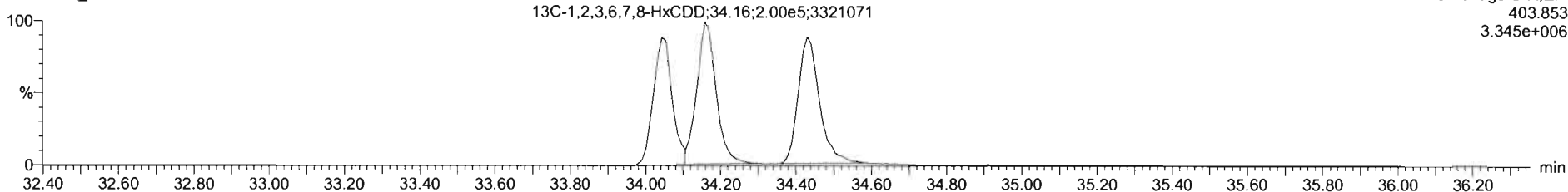


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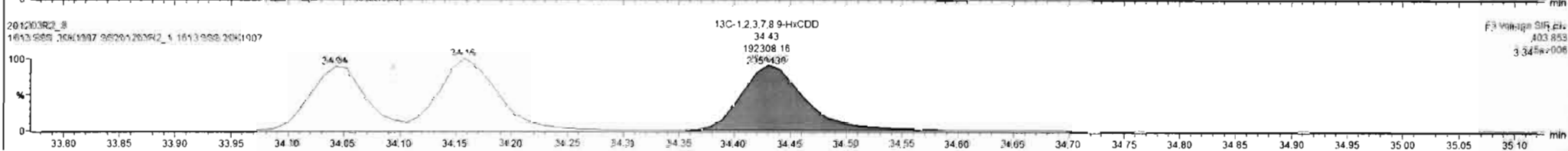
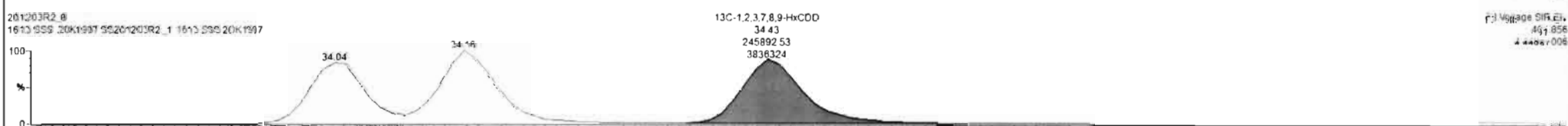
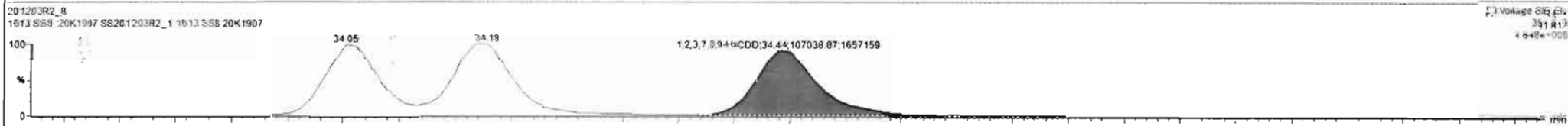
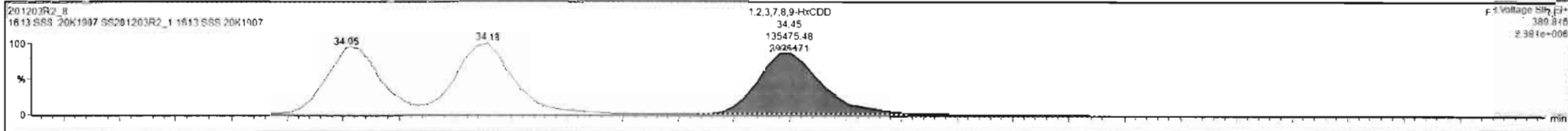


201203R2_8



201203R2_8 - SS201203R2_1 1613 SSS 20K1907 - 1613 SSS 20K1907

#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	8.12e4	0.75	NO	0.9605	1.000	26.01	1.001	11.2	112	0.0338	11.2
2	1,2,3,7,8-PeCDD	2.78e5	0.63	NO	0.9320	1.000	30.76	1.000	57.1	114	0.109	57.1
3	1,2,3,4,7,8-HxCDD	2.27e5	1.28	NO	1.0203	1.000	34.05	1.000	57.5	115	0.126	57.5
4	1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.9025	1.000	34.18	1.001	62.5	125	0.119	62.5
5	1,2,3,7,8,9-HxCDD	2.43e5	1.27	NO	0.9542	1.000	34.45	1.001	58.0	116	0.129	58.0
6	1,2,3,4,6,7,8-HxCDD	1.75e5	1.04	NO	0.9180	1.000	37.91	1.000	54.9	110	0.200	54.9
7	OCDD	3.13e5	0.90	NO	0.8658	1.000	40.51	1.000	124	124	0.226	124
8	2,3,7,8-TCDF	1.01e5	0.74	NO	0.8480	1.000	25.20	1.001	10.9	109	0.0323	10.9
9	1,2,3,7,8-aCDF	4.31e5	1.59	NO	0.9597	1.000	29.49	1.001	55.9	112	0.145	55.9
10	2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.0671	1.000	30.56	1.000	61.3	123	0.126	61.3
11	1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.9859	1.000	33.16	1.000	61.6	123	0.127	61.6
12	1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.0368	1.000	33.20	1.001	59.0	116	0.121	59.0
13	2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.0292	1.000	33.95	1.000	61.3	123	0.143	61.3
14	1,2,3,7,8,9-HxCDF	2.86e5	1.23	NO	0.9909	1.000	34.04	1.001	57.1	114	0.209	57.1



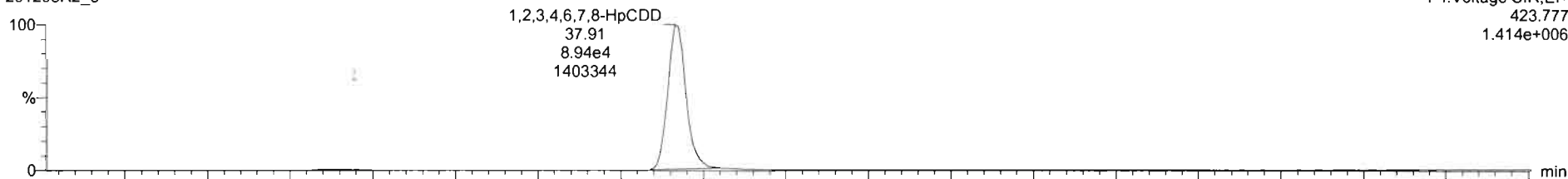
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Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

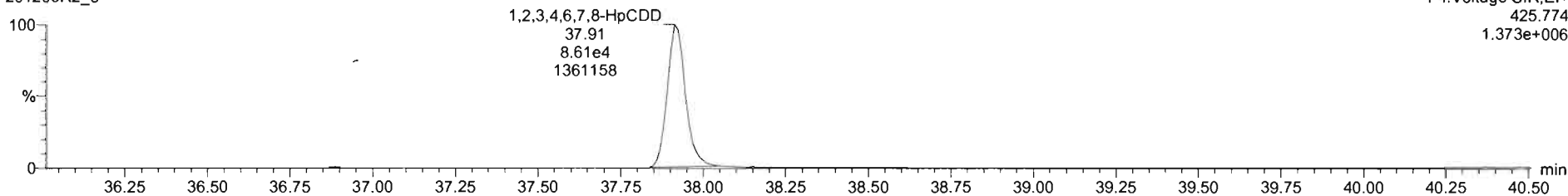
1,2,3,4,6,7,8-HpCDD

201203R2_8



F4: Voltage SIR, EI+
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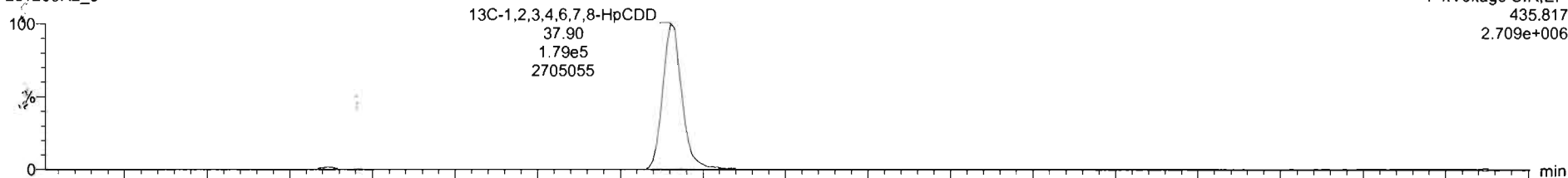
201203R2_8



F4: Voltage SIR, EI+
425.774
1.373e+006

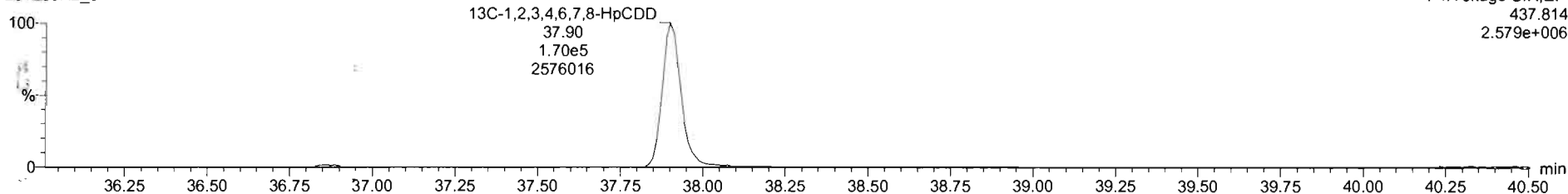
13C-1,2,3,4,6,7,8-HpCDD

201203R2_8



F4: Voltage SIR, EI+
435.817
2.709e+006

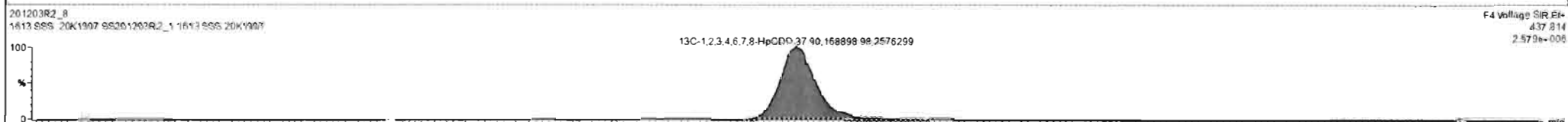
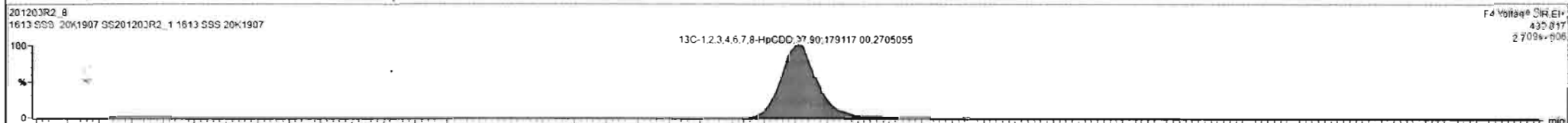
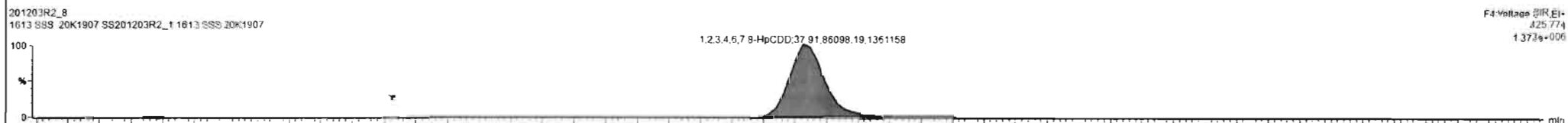
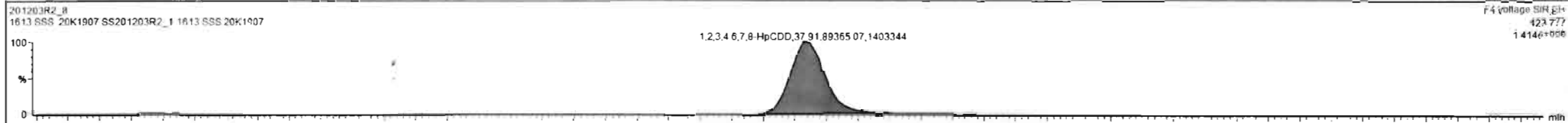
201203R2_8



F4: Voltage SIR, EI+
437.814
2.579e+006

201203R2_8 - SS201203R2_1 1613 SSS 20K1907 - 1613 SSS 20K1907

Name	Resp	RA	aly	RRF	wt/vol	R	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	8.12e4	0.75	NO	0.9605	1.000	26.01	1.001	11.2	112	0.0238	11.2
2 1,2,3,7,8-HxCDD	2.78e5	0.63	NO	0.9320	1.000	30.76	1.000	57.1	114	0.109	57.1
3 1,2,3,4,7,8-HxCDD	2.27e5	1.26	NO	1.0203	1.000	34.05	1.000	57.5	115	0.126	57.5
4 1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.9025	1.000	34.18	1.001	62.5	125	0.119	62.5
5 1,2,3,7,8,9-HxCDD	2.43e5	1.27	NO	0.9542	1.000	34.45	1.001	58.0	116	0.129	58.0
6 1,2,3,4,6,7,8-HpCDD	1.75e5	1.04	NO	0.9180	1.000	37.91	1.000	54.9	110	0.206	54.9
7 OCDD	3.13e5	0.90	NO	0.8658	1.000	40.01	1.000	124	124	0.226	124
8 2,3,7,8-TCDF	1.01e5	0.74	NO	0.8480	1.000	25.30	1.001	10.9	109	0.0223	10.9
9 1,2,3,7,8-PeCDF	4.31e5	1.59	NO	0.9597	1.000	29.49	1.001	55.9	112	0.145	55.9
10 2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.0671	1.000	30.56	1.000	61.3	123	0.126	61.3
11 1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.9859	1.000	33.16	1.000	61.6	123	0.127	61.6
12 1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.0366	1.000	33.30	1.001	59.0	118	0.121	59.0
13 2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.0202	1.000	33.95	1.000	61.3	123	0.142	61.3
14 1,2,3,7,8,9-HxCDF	2.66e5	1.22	NO	0.9909	1.000	34.94	1.001	56.8	114	0.208	56.8



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

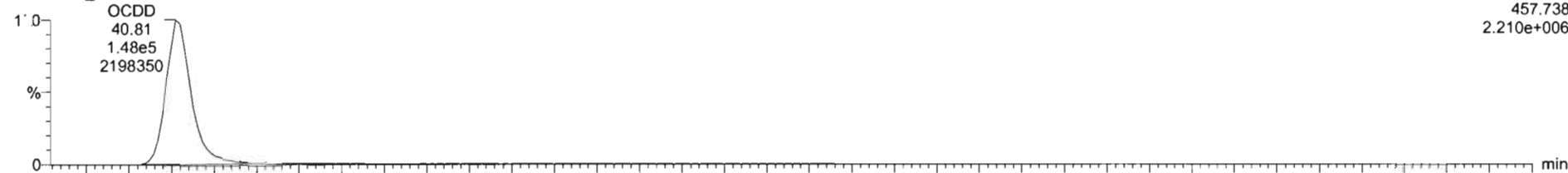
Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time

Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

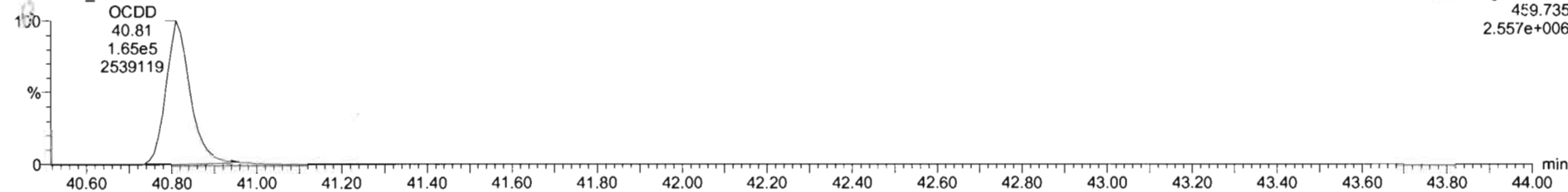
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

OCDD

201203R2_8

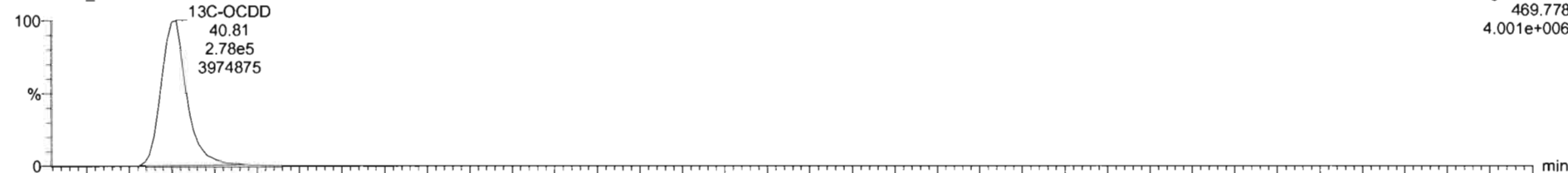


201203R2_8

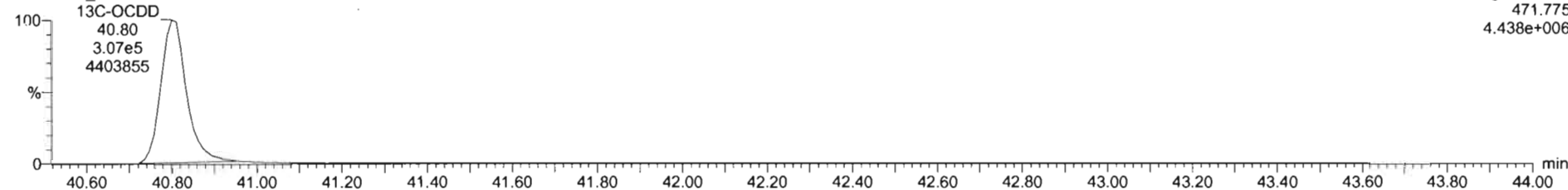


13C-OCDD

201203R2_8



201203R2_8



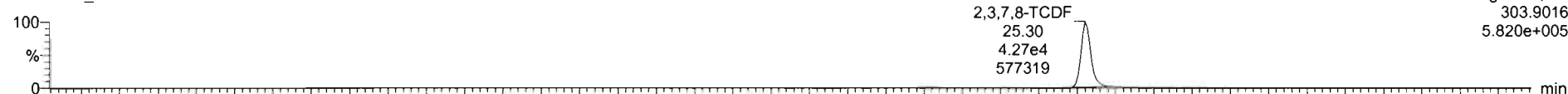
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

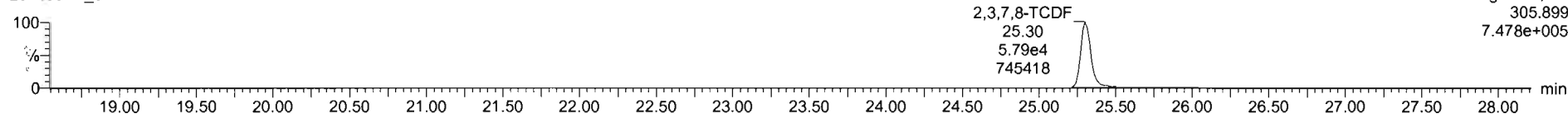
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

2,3,7,8-TCDF

201203R2_8

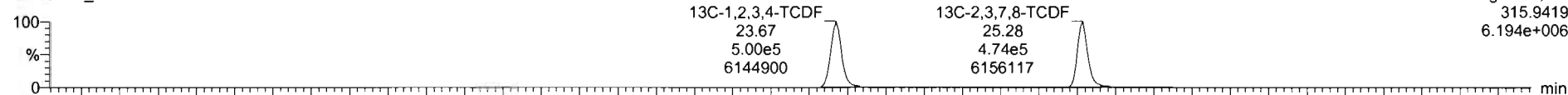


201203R2_8

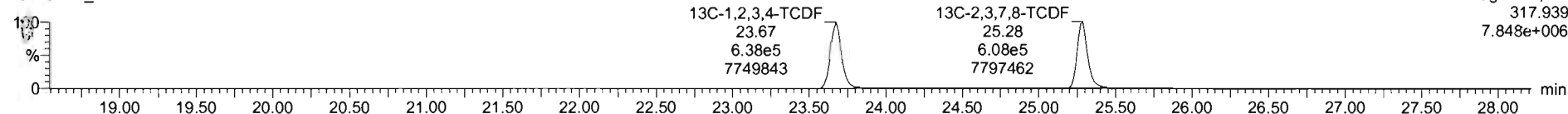


¹³C-2,3,7,8-TCDF

201203R2_8

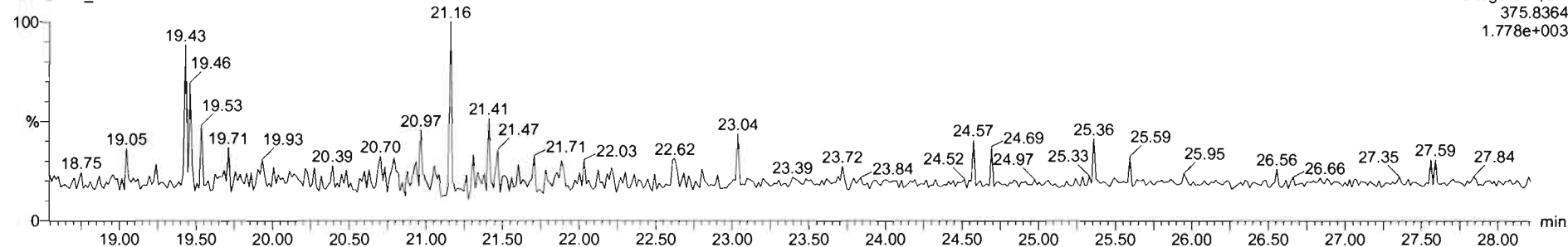


201203R2_8



DPE1

201203R2_8



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

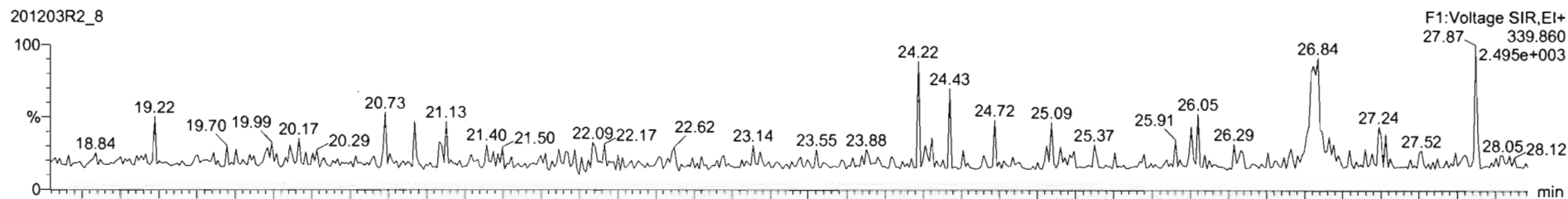
Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time

Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

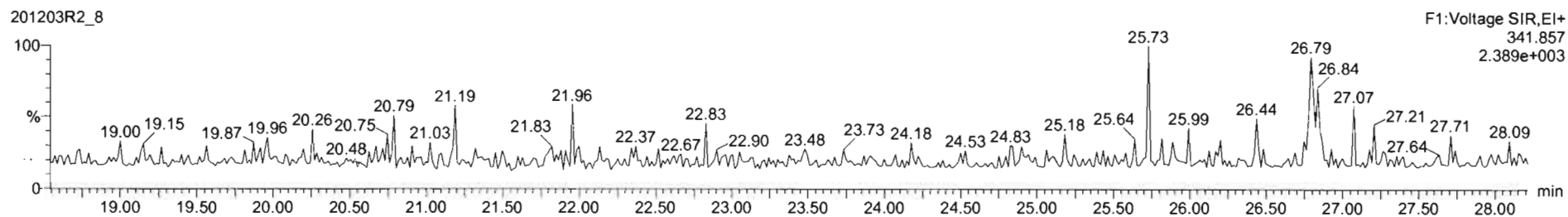
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

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201203R2_8

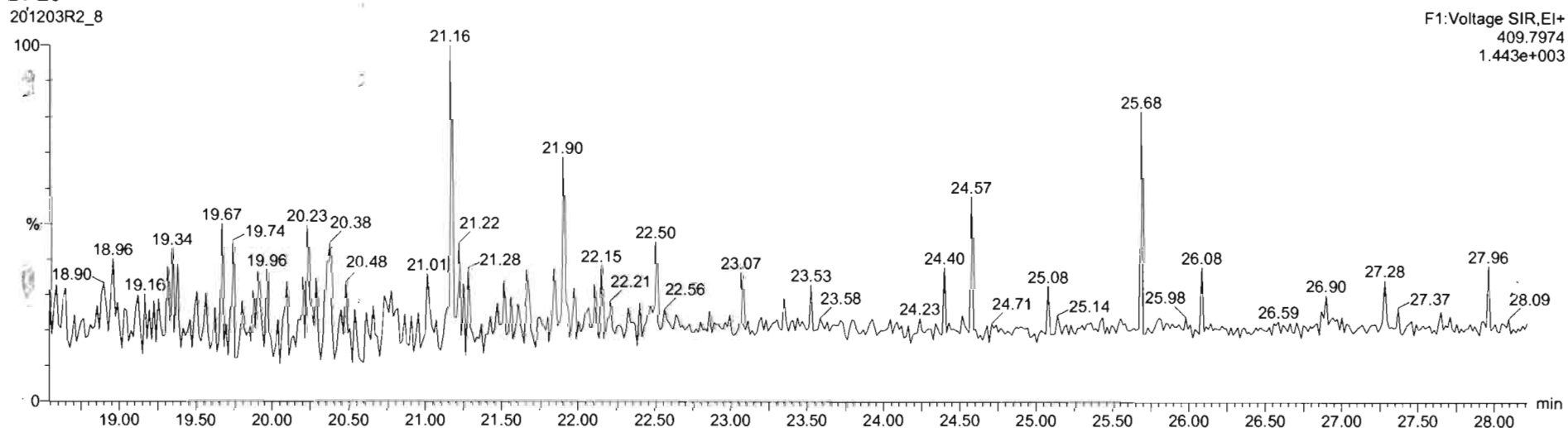


201203R2_8



DPE6

201203R2_8



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

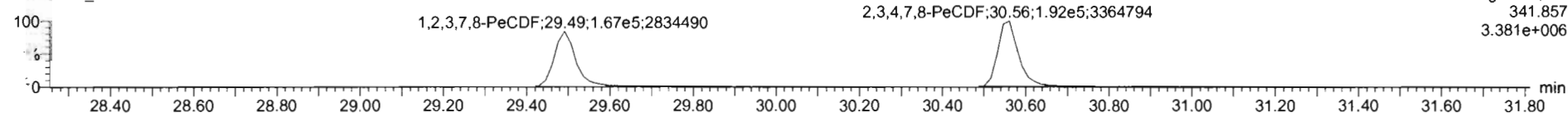
1,2,3,7,8-PeCDF

201203R2_8



F2: Voltage SIR, EI+
339.860
5.500e+006

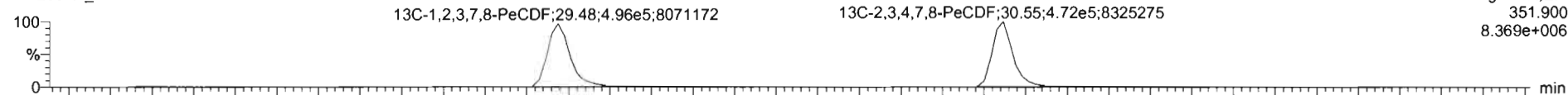
201203R2_8



F2: Voltage SIR, EI+
341.857
3.381e+006

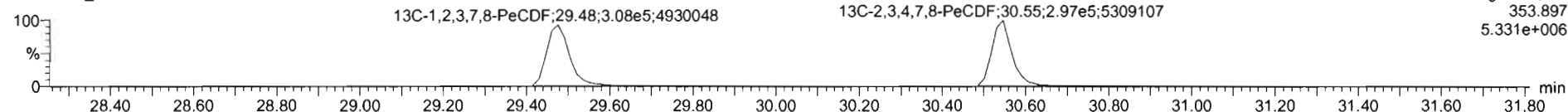
13C-1,2,3,7,8-PeCDF

201203R2_8



F2: Voltage SIR, EI+
351.900
8.369e+006

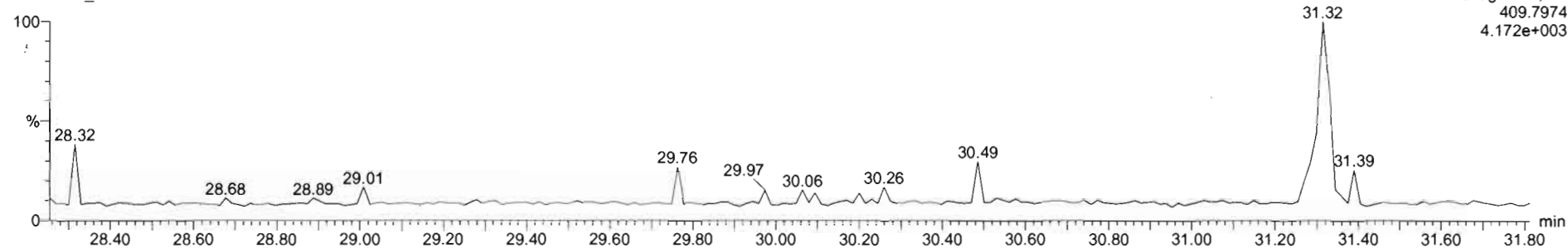
201203R2_8



F2: Voltage SIR, EI+
353.897
5.331e+006

DPE2

201203R2_8



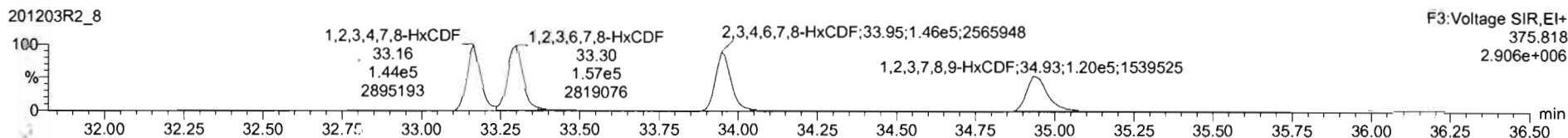
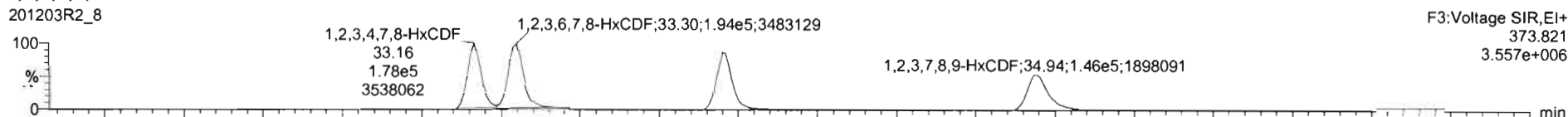
F2: Voltage SIR, EI+
409.7974
4.172e+003

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

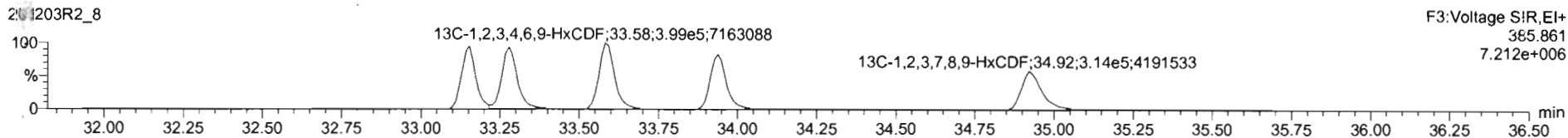
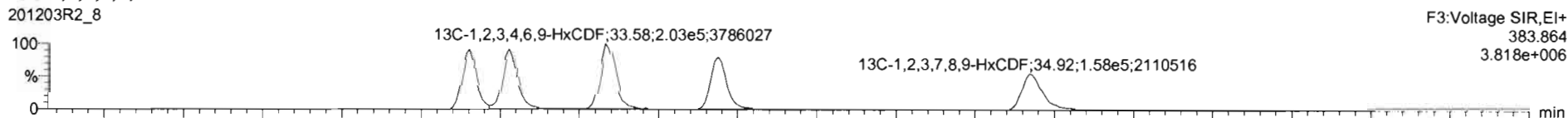
Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

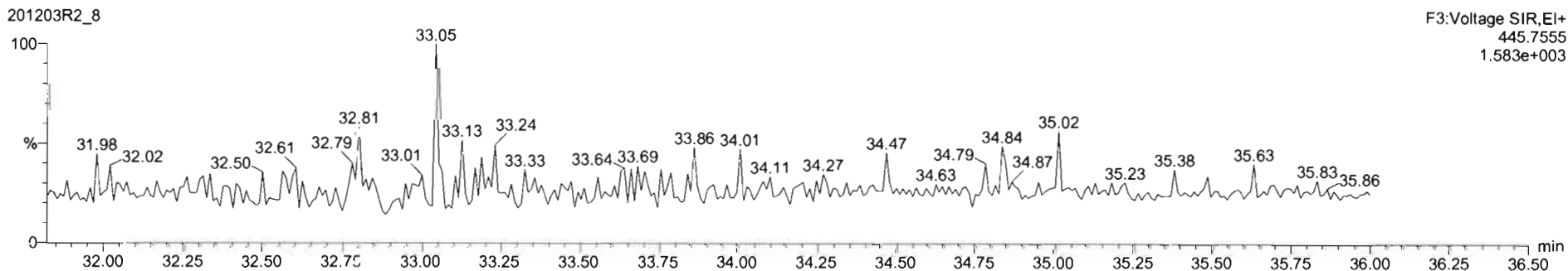
1,2,3,4,7,8-HxCDF



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

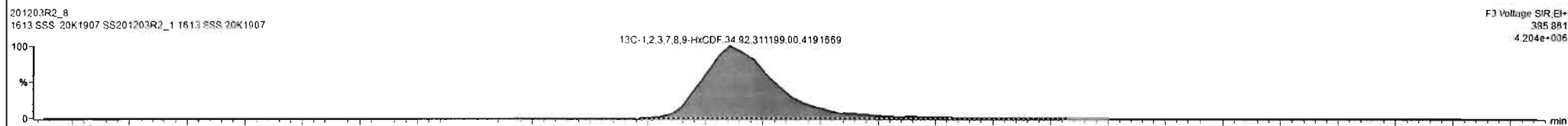
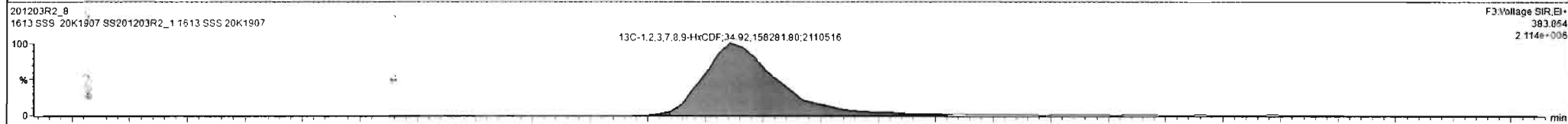
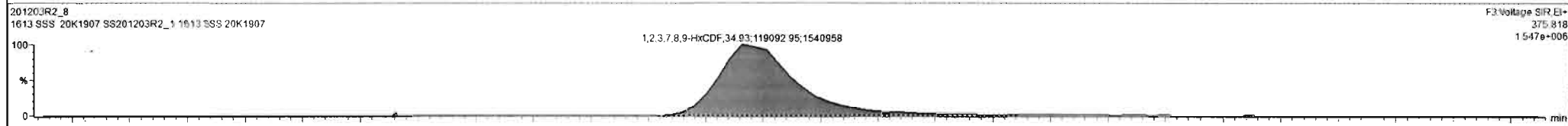
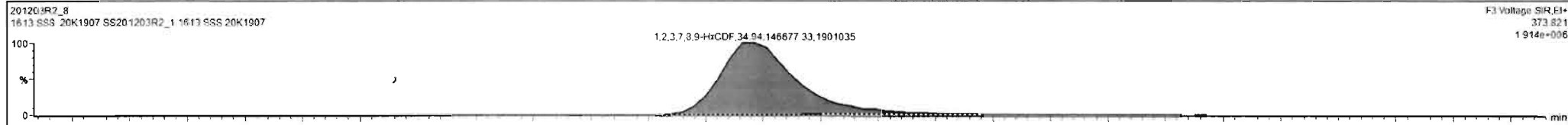


DPE3



201203R2_8 - SS201203R2_1 1613 SSS 20K1907 - 1613 SSS 20K1907

Name	Resp	RA	n/y	RRF	wilvol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TiDD	8.12e4	0.75	NO	0.9805	1.000	26.01	1.001	11.2	112	0.0338	11.2
2 1,2,3,7,8-HxCDD	2.78e5	0.63	NO	0.9320	1.000	20.75	1.000	57.1	114	0.109	57.1
3 1,2,3,4,7,8-HxCDD	2.27e5	1.26	NO	1.0203	1.000	34.05	1.000	57.5	115	0.126	57.5
4 1,2,3,6,7,8-HxCDD	2.58e5	1.25	NO	0.9025	1.000	34.18	1.001	62.5	125	0.119	62.5
5 1,2,3,7,8,9-HxCDD	2.43e5	1.27	NO	0.9542	1.000	34.45	1.001	58.0	116	0.129	58.0
6 1,2,3,4,6,7,8-HpCDD	1.75e5	1.04	NO	0.9180	1.000	37.91	1.000	54.9	110	0.206	54.9
7 OCDD	3.13e5	0.90	NO	0.8658	1.000	40.81	1.000	124	124	0.226	124
8 2,3,7,8-TCDF	1.01e5	0.74	NO	0.8480	1.000	25.70	1.001	10.9	109	0.0323	10.9
9 1,2,3,7,8-PeCDF	4.31e5	1.59	NO	0.9597	1.000	29.49	1.001	55.9	112	0.145	55.9
10 2,3,4,7,8-PeCDF	5.03e5	1.62	NO	1.0671	1.000	30.56	1.000	61.3	123	0.126	61.3
11 1,2,3,4,7,8-HxCDF	3.21e5	1.24	NO	0.9859	1.000	33.16	1.000	61.6	123	0.127	61.6
12 1,2,3,6,7,8-HxCDF	3.50e5	1.24	NO	1.0388	1.000	33.30	1.001	59.0	116	0.121	59.0
13 2,3,4,6,7,8-HxCDF	3.27e5	1.24	NO	1.0202	1.000	33.95	1.000	61.3	123	0.143	61.3
14 1,2,3,7,8,9-HxCDF	2.66e5	1.23	NO	0.9909	1.000	34.94	1.001	57.1	114	0.209	57.1



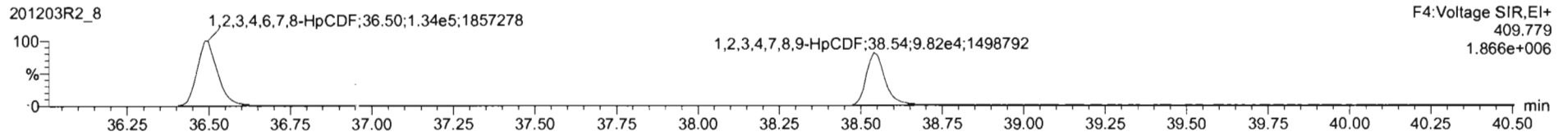
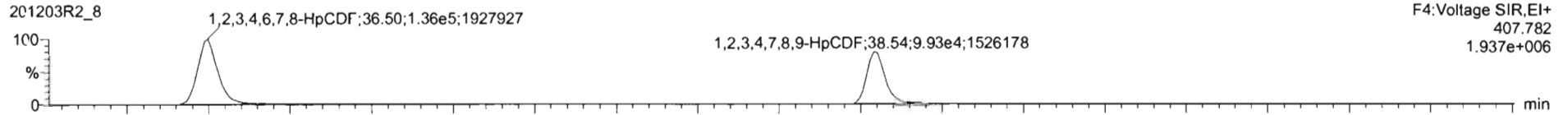
Regch 201203R2_8 CAP NUM

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

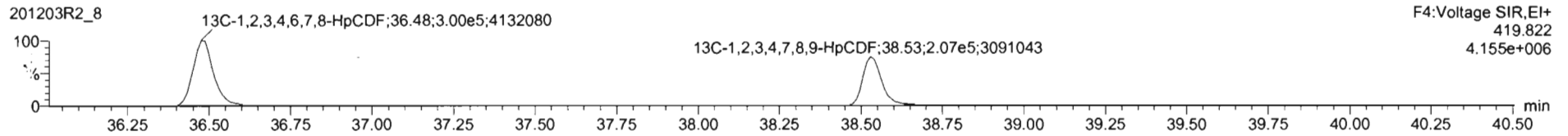
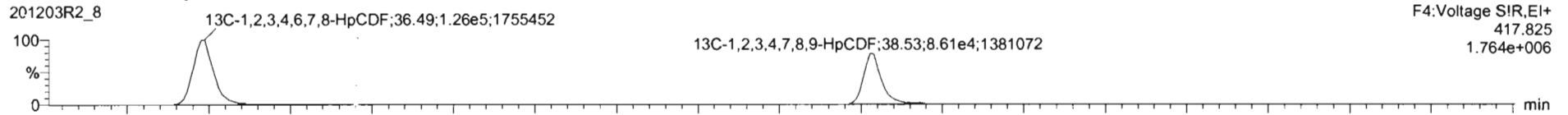
Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

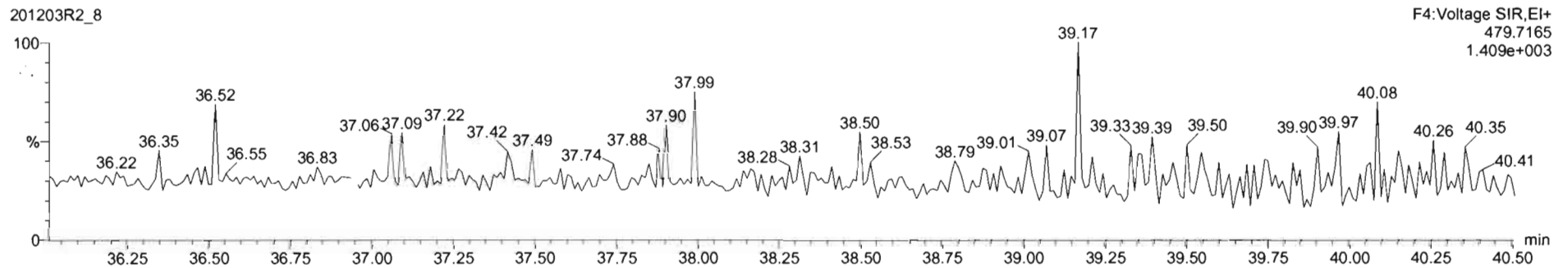
1,2,3,4,6,7,8-HpCDF



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



DPE4

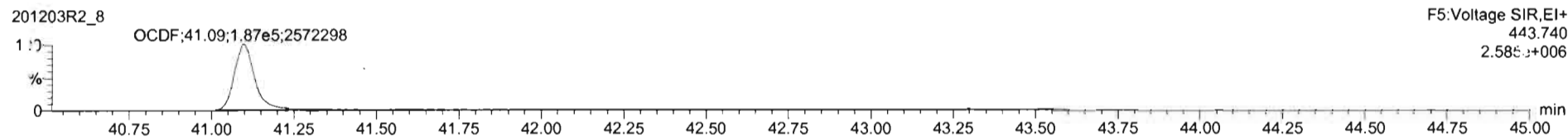
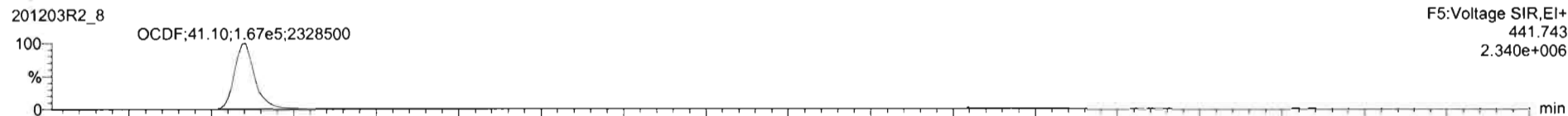


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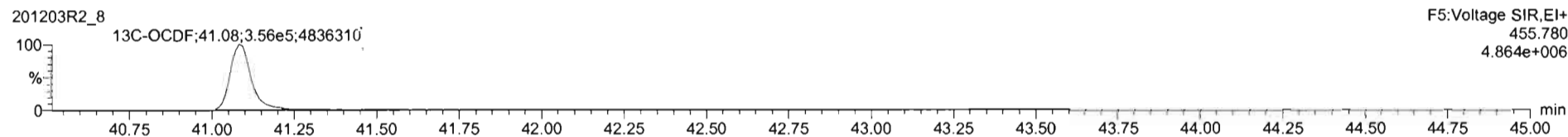
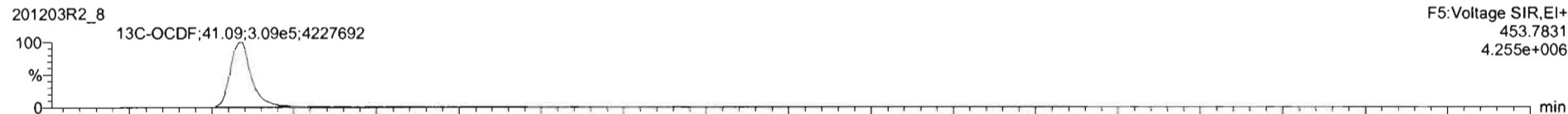
Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

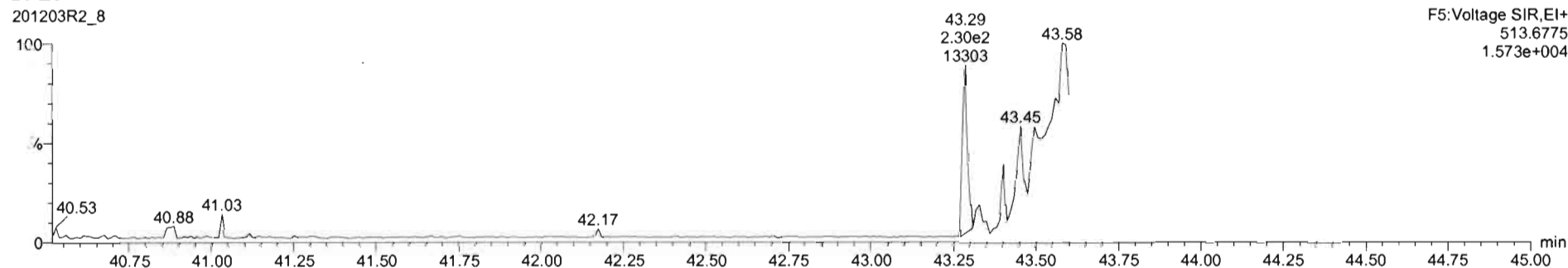
OCDF



13C-OCDF



DPE5



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

