

December 09, 2020

Vista Work Order No. 2002375

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 03, 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.

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Case Narrative

Sample Condition on Receipt:

Nine 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 each preparation batch. No analytes were detected above the quantitation limits in the Method Blanks. 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
2002375-02	USMPDI-045SC-A-02-03-201030	EPA Method 1613B	13C-2,3,7,8-TCDD	H	20.2
2002375-02	USMPDI-045SC-A-02-03-201030	EPA Method 1613B	13C-2,3,7,8-TCDF	H	16.4
2002375-02	USMPDI-045SC-A-02-03-201030	EPA Method 1613B	37Cl-2,3,7,8-TCDD	H	21.9

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2002375-01	USMPDI-045SC-A-01-02-201030	30-Oct-20 12:30	03-Nov-20 09:27	Amber Glass, 120 mL
2002375-02	USMPDI-045SC-A-02-03-201030	30-Oct-20 12:30	03-Nov-20 09:27	Amber Glass, 120 mL
2002375-03	USMPDI-045SC-A-03-04-201030	30-Oct-20 12:30	03-Nov-20 09:27	Amber Glass, 120 mL
2002375-04	USMPDI-045SC-A-04-05-201030	30-Oct-20 12:30	03-Nov-20 09:27	Amber Glass, 120 mL
2002375-05	USMPDI-047SC-A-01-02-201030	30-Oct-20 09:30	03-Nov-20 09:27	Amber Glass, 120 mL
2002375-06	USMPDI-047SC-A-02-03-201030	30-Oct-20 09:30	03-Nov-20 09:27	Amber Glass, 120 mL
2002375-07	USMPDI-047SC-A-03-04-201030	30-Oct-20 09:30	03-Nov-20 09:27	Amber Glass, 120 mL
2002375-08	USMPDI-047SC-A-04-05-201030	30-Oct-20 09:30	03-Nov-20 09:27	Amber Glass, 120 mL
2002375-09	USMPDI-1047SC-A-02-03-201030	30-Oct-20 00:00	03-Nov-20 09:27	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50		Lab Sample: B0K0172-BLK1 Date Analyzed: 25-Nov-20 13:08 Column: ZB-DIOXIN				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.100			IS 13C-2,3,7,8-TCDD	105	25 - 164	
1,2,3,7,8-PeCDD	ND	0.152			13C-1,2,3,7,8-PeCDD	77.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.172			13C-1,2,3,4,7,8-HxCDD	81.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.172			13C-1,2,3,6,7,8-HxCDD	81.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.186			13C-1,2,3,7,8,9-HxCDD	83.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.206			13C-1,2,3,4,6,7,8-HpCDD	81.2	23 - 140	
OCDD	1.29			J	13C-OCDD	74.2	17 - 157	
2,3,7,8-TCDF	ND	0.0511			13C-2,3,7,8-TCDF	92.0	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0803			13C-1,2,3,7,8-PeCDF	81.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0684			13C-2,3,4,7,8-PeCDF	77.5	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0593			13C-1,2,3,4,7,8-HxCDF	93.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0575			13C-1,2,3,6,7,8-HxCDF	91.0	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0694			13C-2,3,4,6,7,8-HxCDF	90.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.105			13C-1,2,3,7,8,9-HxCDF	88.8	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.119			13C-1,2,3,4,6,7,8-HpCDF	90.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.142			13C-1,2,3,4,7,8,9-HpCDF	81.5	26 - 138	
OCDF	ND	0.246			13C-OCDF	82.6	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	123	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000387			
TOTALS								
Total TCDD	ND	0.100						
Total PeCDD	ND	0.152						
Total HxCDD	ND	0.186						
Total HpCDD	ND	0.206						
Total TCDF	ND	0.0511						
Total PeCDF	ND	0.0803						
Total HxCDF	ND	0.105						
Total HpCDF	ND	0.142						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50		Lab Sample: B0K0172-BS1 Date Analyzed: 25-Nov-20 11:38 Column: ZB-DIOXIN			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	26.2	20.0	131	67 - 158	IS 13C-2,3,7,8-TCDD	93.5	20 - 175
1,2,3,7,8-PeCDD	136	100	136	70 - 142	13C-1,2,3,7,8-PeCDD	75.4	21 - 227
1,2,3,4,7,8-HxCDD	116	100	116	70 - 164	13C-1,2,3,4,7,8-HxCDD	78.4	21 - 193
1,2,3,6,7,8-HxCDD	114	100	114	76 - 134	13C-1,2,3,6,7,8-HxCDD	78.2	25 - 163
1,2,3,7,8,9-HxCDD	117	100	117	64 - 162	13C-1,2,3,7,8,9-HxCDD	78.9	21 - 193
1,2,3,4,6,7,8-HpCDD	109	100	109	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	79.1	26 - 166
OCDD	226	200	113	78 - 144	13C-OCDD	71.3	13 - 199
2,3,7,8-TCDF	20.7	20.0	103	75 - 158	13C-2,3,7,8-TCDF	86.9	22 - 152
1,2,3,7,8-PeCDF	119	100	119	80 - 134	13C-1,2,3,7,8-PeCDF	77.6	21 - 192
2,3,4,7,8-PeCDF	116	100	116	68 - 160	13C-2,3,4,7,8-PeCDF	76.2	13 - 328
1,2,3,4,7,8-HxCDF	97.9	100	97.9	72 - 134	13C-1,2,3,4,7,8-HxCDF	89.6	19 - 202
1,2,3,6,7,8-HxCDF	97.1	100	97.1	84 - 130	13C-1,2,3,6,7,8-HxCDF	88.5	21 - 159
2,3,4,6,7,8-HxCDF	99.6	100	99.6	70 - 156	13C-2,3,4,6,7,8-HxCDF	84.8	22 - 176
1,2,3,7,8,9-HxCDF	96.8	100	96.8	78 - 130	13C-1,2,3,7,8,9-HxCDF	83.7	17 - 205
1,2,3,4,6,7,8-HpCDF	99.2	100	99.2	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	85.3	21 - 158
1,2,3,4,7,8,9-HpCDF	96.2	100	96.2	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	78.3	20 - 186
OCDF	200	200	99.8	63 - 170	13C-OCDF	78.3	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	115	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0L0009 Date Extracted: 02-Dec-2020 16:12		Lab Sample: B0L0009-BLK1 Date Analyzed: 04-Dec-20 21:31 Column: ZB-DIOXIN				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0283			IS 13C-2,3,7,8-TCDD	98.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0423			13C-1,2,3,7,8-PeCDD	96.6	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0773			13C-1,2,3,4,7,8-HxCDD	98.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0797			13C-1,2,3,6,7,8-HxCDD	97.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0855			13C-1,2,3,7,8,9-HxCDD	92.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.0742			13C-1,2,3,4,6,7,8-HpCDD	96.9	23 - 140	
OCDD	ND	0.168			13C-OCDD	76.3	17 - 157	
2,3,7,8-TCDF	ND	0.0153			13C-2,3,7,8-TCDF	98.7	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0425			13C-1,2,3,7,8-PeCDF	101	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0365			13C-2,3,4,7,8-PeCDF	105	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0462			13C-1,2,3,4,7,8-HxCDF	95.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0454			13C-1,2,3,6,7,8-HxCDF	92.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0540			13C-2,3,4,6,7,8-HxCDF	95.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0770			13C-1,2,3,7,8,9-HxCDF	94.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0588			13C-1,2,3,4,6,7,8-HpCDF	88.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0653			13C-1,2,3,4,7,8,9-HpCDF	92.8	26 - 138	
OCDF	ND	0.0962			13C-OCDF	76.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.3	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin	0.00		
TOTALS								
Total TCDD	ND	0.0283						
Total PeCDD	ND	0.0423						
Total HxCDD	ND	0.0855						
Total HpCDD	ND	0.0742						
Total TCDF	ND	0.0153						
Total PeCDF	ND	0.0425						
Total HxCDF	ND	0.0770						
Total HpCDF	ND	0.0653						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0L0009 Date Extracted: 02-Dec-2020 16:12		Lab Sample: B0L0009-BS1 Date Analyzed: 04-Dec-20 18:32 Column: ZB-DIOXIN			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	22.1	20.0	110	67 - 158	IS 13C-2,3,7,8-TCDD	96.3	20 - 175
1,2,3,7,8-PeCDD	114	100	114	70 - 142	13C-1,2,3,7,8-PeCDD	96.6	21 - 227
1,2,3,4,7,8-HxCDD	117	100	117	70 - 164	13C-1,2,3,4,7,8-HxCDD	95.5	21 - 193
1,2,3,6,7,8-HxCDD	119	100	119	76 - 134	13C-1,2,3,6,7,8-HxCDD	96.1	25 - 163
1,2,3,7,8,9-HxCDD	115	100	115	64 - 162	13C-1,2,3,7,8,9-HxCDD	89.5	21 - 193
1,2,3,4,6,7,8-HpCDD	114	100	114	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	81.5	26 - 166
OCDD	233	200	117	78 - 144	13C-OCDD	64.2	13 - 199
2,3,7,8-TCDF	21.4	20.0	107	75 - 158	13C-2,3,7,8-TCDF	95.3	22 - 152
1,2,3,7,8-PeCDF	111	100	111	80 - 134	13C-1,2,3,7,8-PeCDF	99.2	21 - 192
2,3,4,7,8-PeCDF	114	100	114	68 - 160	13C-2,3,4,7,8-PeCDF	103	13 - 328
1,2,3,4,7,8-HxCDF	115	100	115	72 - 134	13C-1,2,3,4,7,8-HxCDF	93.4	19 - 202
1,2,3,6,7,8-HxCDF	113	100	113	84 - 130	13C-1,2,3,6,7,8-HxCDF	95.4	21 - 159
2,3,4,6,7,8-HxCDF	114	100	114	70 - 156	13C-2,3,4,6,7,8-HxCDF	92.0	22 - 176
1,2,3,7,8,9-HxCDF	113	100	113	78 - 130	13C-1,2,3,7,8,9-HxCDF	86.2	17 - 205
1,2,3,4,6,7,8-HpCDF	114	100	114	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	74.2	21 - 158
1,2,3,4,7,8,9-HpCDF	115	100	115	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	77.7	20 - 186
OCDF	231	200	116	63 - 170	13C-OCDF	63.8	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	94.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: USMPDI-045SC-A-01-02-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-01 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 19.7 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 30-Oct-2020 12:30	% Solids: 50.8	Date Analyzed: 26-Nov-20 12:21 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.461		IS 13C-2,3,7,8-TCDD	93.1	25 - 164	
1,2,3,7,8-PeCDD	0.911			J	13C-1,2,3,7,8-PeCDD	81.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.972			J	13C-1,2,3,4,7,8-HxCDD	83.7	32 - 141	
1,2,3,6,7,8-HxCDD	6.04				13C-1,2,3,6,7,8-HxCDD	82.5	28 - 130	
1,2,3,7,8,9-HxCDD	2.63				13C-1,2,3,7,8,9-HxCDD	89.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	117				13C-1,2,3,4,6,7,8-HpCDD	85.1	23 - 140	
OCDD	1220			B	13C-OCDD	79.0	17 - 157	
2,3,7,8-TCDF	24.0				13C-2,3,7,8-TCDF	87.6	24 - 169	
1,2,3,7,8-PeCDF	47.9				13C-1,2,3,7,8-PeCDF	90.9	24 - 185	
2,3,4,7,8-PeCDF	33.6				13C-2,3,4,7,8-PeCDF	91.3	21 - 178	
1,2,3,4,7,8-HxCDF	38.8				13C-1,2,3,4,7,8-HxCDF	87.1	26 - 152	
1,2,3,6,7,8-HxCDF	10.3				13C-1,2,3,6,7,8-HxCDF	85.6	26 - 123	
2,3,4,6,7,8-HxCDF	4.35				13C-2,3,4,6,7,8-HxCDF	86.9	28 - 136	
1,2,3,7,8,9-HxCDF	2.54				13C-1,2,3,7,8,9-HxCDF	86.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	20.7				13C-1,2,3,4,6,7,8-HpCDF	79.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	4.14				13C-1,2,3,4,7,8,9-HpCDF	79.5	26 - 138	
OCDF	46.9				13C-OCDF	77.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	115	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 23.2

TOTALS		
Total TCDD	1.97	2.82
Total PeCDD	6.30	7.66
Total HxCDD	49.8	50.4
Total HpCDD	260	
Total TCDF	77.3	78.3
Total PeCDF	151	
Total HxCDF	87.6	87.9
Total HpCDF	52.2	

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

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

Sample ID: USMPDI-045SC-A-02-03-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-02 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 16.9 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 30-Oct-2020 12:30	% Solids: 60.9	Date Analyzed: 26-Nov-20 13:05 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.933				IS 13C-2,3,7,8-TCDD	20.2	25 - 164	H
1,2,3,7,8-PeCDD	1.49			J	13C-1,2,3,7,8-PeCDD	33.4	25 - 181	
1,2,3,4,7,8-HxCDD	1.37			J	13C-1,2,3,4,7,8-HxCDD	59.9	32 - 141	
1,2,3,6,7,8-HxCDD	7.03				13C-1,2,3,6,7,8-HxCDD	63.2	28 - 130	
1,2,3,7,8,9-HxCDD	3.35				13C-1,2,3,7,8,9-HxCDD	83.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	147				13C-1,2,3,4,6,7,8-HpCDD	82.2	23 - 140	
OCDD	1960			B	13C-OCDD	81.3	17 - 157	
2,3,7,8-TCDF	17.1				13C-2,3,7,8-TCDF	16.4	24 - 169	H
1,2,3,7,8-PeCDF	35.3				13C-1,2,3,7,8-PeCDF	32.1	24 - 185	
2,3,4,7,8-PeCDF	15.4				13C-2,3,4,7,8-PeCDF	27.0	21 - 178	
1,2,3,4,7,8-HxCDF	60.5				13C-1,2,3,4,7,8-HxCDF	58.5	26 - 152	
1,2,3,6,7,8-HxCDF	14.8				13C-1,2,3,6,7,8-HxCDF	64.9	26 - 123	
2,3,4,6,7,8-HxCDF	3.31				13C-2,3,4,6,7,8-HxCDF	77.0	28 - 136	
1,2,3,7,8,9-HxCDF	4.62				13C-1,2,3,7,8,9-HxCDF	68.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	40.8				13C-1,2,3,4,6,7,8-HpCDF	80.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	10.5				13C-1,2,3,4,7,8,9-HpCDF	73.1	26 - 138	
OCDF	95.0				13C-OCDF	76.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	21.9	35 - 197	H

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 21.9

TOTALS		
Total TCDD	2.01	2.60
Total PeCDD	7.29	10.1
Total HxCDD	66.9	68.3
Total HpCDD	338	
Total TCDF	47.4	51.7
Total PeCDF	73.3	88.9
Total HxCDF	124	
Total HpCDF	106	

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-045SC-A-03-04-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-03 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 11.5 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 30-Oct-2020 12:30	% Solids: 86.9	Date Analyzed: 26-Nov-20 13:50 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0618		IS 13C-2,3,7,8-TCDD	98.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.134			13C-1,2,3,7,8-PeCDD	79.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.113			13C-1,2,3,4,7,8-HxCDD	91.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.120			13C-1,2,3,6,7,8-HxCDD	87.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.129			13C-1,2,3,7,8,9-HxCDD	91.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.08				13C-1,2,3,4,6,7,8-HpCDD	89.7	23 - 140	
OCDD	55.1			B	13C-OCDD	76.1	17 - 157	
2,3,7,8-TCDF	0.335			J	13C-2,3,7,8-TCDF	96.3	24 - 169	
1,2,3,7,8-PeCDF	ND		0.398		13C-1,2,3,7,8-PeCDF	91.8	24 - 185	
2,3,4,7,8-PeCDF	0.330			J	13C-2,3,4,7,8-PeCDF	89.1	21 - 178	
1,2,3,4,7,8-HxCDF	0.540			J	13C-1,2,3,4,7,8-HxCDF	92.7	26 - 152	
1,2,3,6,7,8-HxCDF	0.202			J	13C-1,2,3,6,7,8-HxCDF	89.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0967			13C-2,3,4,6,7,8-HxCDF	94.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.135			13C-1,2,3,7,8,9-HxCDF	94.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.683		13C-1,2,3,4,6,7,8-HpCDF	90.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0860			13C-1,2,3,4,7,8,9-HpCDF	85.1	26 - 138	
OCDF	1.97			J	13C-OCDF	80.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	117	35 - 197	

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

TEQMinWHO2005Dioxin 0.255

TOTALS								
Total TCDD	0.181		0.243					
Total PeCDD	ND	0.134						
Total HxCDD	0.836		1.41					
Total HpCDD	7.72							
Total TCDF	0.665							
Total PeCDF	0.601		1.46					
Total HxCDF	1.38							
Total HpCDF	1.11		1.80					

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-045SC-A-04-05-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-04 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 11.4 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 30-Oct-2020 12:30	% Solids: 87.9	Date Analyzed : 01-Jan-80 00:00 Column: ZB-DIOXIN 26-Nov-20 14:35 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0754			IS 13C-2,3,7,8-TCDD	68.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.148			13C-1,2,3,7,8-PeCDD	68.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.124			13C-1,2,3,4,7,8-HxCDD	76.6	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.125			13C-1,2,3,6,7,8-HxCDD	75.4	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.130			13C-1,2,3,7,8,9-HxCDD	81.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.23			J	13C-1,2,3,4,6,7,8-HpCDD	76.2	23 - 140	
OCDD	31.2			B	13C-OCDD	71.6	17 - 157	
2,3,7,8-TCDF	0.127			J	13C-2,3,7,8-TCDF	60.6	24 - 169	
1,2,3,7,8-PeCDF	ND		0.146		13C-1,2,3,7,8-PeCDF	72.0	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0920		13C-2,3,4,7,8-PeCDF	70.6	21 - 178	
1,2,3,4,7,8-HxCDF	0.232			J	13C-1,2,3,4,7,8-HxCDF	78.1	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0537			13C-1,2,3,6,7,8-HxCDF	78.6	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0600			13C-2,3,4,6,7,8-HxCDF	81.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0961			13C-1,2,3,7,8,9-HxCDF	78.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0981			13C-1,2,3,4,6,7,8-HpCDF	76.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.105			13C-1,2,3,4,7,8,9-HpCDF	73.5	26 - 138	
OCDF	ND	0.105			13C-OCDF	70.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	83.9	35 - 197	

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

TEQMinWHO2005Dioxin 0.0676

TOTALS								
Total TCDD	ND	0.0754						
Total PeCDD	ND	0.148						
Total HxCDD	0.845							
Total HpCDD	5.72							
Total TCDF	0.127		0.235					
Total PeCDF	0.0984		0.450					
Total HxCDF	0.574							
Total HpCDF	ND	0.105						

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-047SC-A-01-02-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-05 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 19.9 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 30-Oct-2020 9:30	% Solids: 50.5	Date Analyzed: 26-Nov-20 15:20 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.59				IS 13C-2,3,7,8-TCDD	87.0	25 - 164	
1,2,3,7,8-PeCDD	1.93			J	13C-1,2,3,7,8-PeCDD	71.3	25 - 181	
1,2,3,4,7,8-HxCDD	1.52			J	13C-1,2,3,4,7,8-HxCDD	72.5	32 - 141	
1,2,3,6,7,8-HxCDD	9.32				13C-1,2,3,6,7,8-HxCDD	72.7	28 - 130	
1,2,3,7,8,9-HxCDD	4.10				13C-1,2,3,7,8,9-HxCDD	76.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	122				13C-1,2,3,4,6,7,8-HpCDD	74.0	23 - 140	
OCDD	1240			B	13C-OCDD	67.5	17 - 157	
2,3,7,8-TCDF	23.8				13C-2,3,7,8-TCDF	84.0	24 - 169	
1,2,3,7,8-PeCDF	41.1				13C-1,2,3,7,8-PeCDF	77.5	24 - 185	
2,3,4,7,8-PeCDF	19.2				13C-2,3,4,7,8-PeCDF	77.1	21 - 178	
1,2,3,4,7,8-HxCDF	54.2				13C-1,2,3,4,7,8-HxCDF	78.1	26 - 152	
1,2,3,6,7,8-HxCDF	13.3				13C-1,2,3,6,7,8-HxCDF	75.8	26 - 123	
2,3,4,6,7,8-HxCDF	4.29				13C-2,3,4,6,7,8-HxCDF	76.8	28 - 136	
1,2,3,7,8,9-HxCDF	2.47			J	13C-1,2,3,7,8,9-HxCDF	75.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	25.4				13C-1,2,3,4,6,7,8-HpCDF	69.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.63				13C-1,2,3,4,7,8,9-HpCDF	67.8	26 - 138	
OCDF	47.8				13C-OCDF	65.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.5	35 - 197	

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

TEQMinWHO2005Dioxin 23.7

TOTALS		
Total TCDD	12.3	12.5
Total PeCDD	13.2	19.5
Total HxCDD	90.1	
Total HpCDD	312	
Total TCDF	88.7	89.3
Total PeCDF	119	
Total HxCDF	121	
Total HpCDF	73.0	

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

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

Sample ID: USMPDI-047SC-A-02-03-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-06 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 18.4 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 30-Oct-2020 9:30	% Solids: 54.7	Date Analyzed: 26-Nov-20 16:05 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.289		IS 13C-2,3,7,8-TCDD	97.2	25 - 164	
1,2,3,7,8-PeCDD	0.736			J	13C-1,2,3,7,8-PeCDD	76.1	25 - 181	
1,2,3,4,7,8-HxCDD	0.739			J	13C-1,2,3,4,7,8-HxCDD	82.3	32 - 141	
1,2,3,6,7,8-HxCDD	4.98				13C-1,2,3,6,7,8-HxCDD	81.8	28 - 130	
1,2,3,7,8,9-HxCDD	2.20			J	13C-1,2,3,7,8,9-HxCDD	85.0	32 - 141	
1,2,3,4,6,7,8-HpCDD	95.3				13C-1,2,3,4,6,7,8-HpCDD	82.2	23 - 140	
OCDD	1020			B	13C-OCDD	79.0	17 - 157	
2,3,7,8-TCDF	10.6				13C-2,3,7,8-TCDF	91.6	24 - 169	
1,2,3,7,8-PeCDF	11.5				13C-1,2,3,7,8-PeCDF	82.8	24 - 185	
2,3,4,7,8-PeCDF	7.20				13C-2,3,4,7,8-PeCDF	81.0	21 - 178	
1,2,3,4,7,8-HxCDF	19.7				13C-1,2,3,4,7,8-HxCDF	86.9	26 - 152	
1,2,3,6,7,8-HxCDF	5.12				13C-1,2,3,6,7,8-HxCDF	84.6	26 - 123	
2,3,4,6,7,8-HxCDF	1.65			J	13C-2,3,4,6,7,8-HxCDF	87.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.643			J	13C-1,2,3,7,8,9-HxCDF	85.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	19.0				13C-1,2,3,4,6,7,8-HpCDF	80.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.91				13C-1,2,3,4,7,8,9-HpCDF	79.7	26 - 138	
OCDF	41.2				13C-OCDF	78.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	120	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 9.30

TOTALS		
Total TCDD	2.87	3.16
Total PeCDD	4.67	7.11
Total HxCDD	41.5	
Total HpCDD	212	
Total TCDF	34.9	37.7
Total PeCDF	41.4	
Total HxCDF	48.5	
Total HpCDF	47.3	

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

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

Sample ID: USMPDI-047SC-A-03-04-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-07 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 17.2 g	QC Batch: B0L0009 Date Extracted: 02-Dec-2020 8:23
Date Collected: 30-Oct-2020 9:30	% Solids: 58.3	Date Analyzed: 06-Dec-20 16:53 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.675		IS 13C-2,3,7,8-TCDD	103	25 - 164	
1,2,3,7,8-PeCDD	1.23			J	13C-1,2,3,7,8-PeCDD	104	25 - 181	
1,2,3,4,7,8-HxCDD	1.46			J	13C-1,2,3,4,7,8-HxCDD	103	32 - 141	
1,2,3,6,7,8-HxCDD	8.62				13C-1,2,3,6,7,8-HxCDD	100	28 - 130	
1,2,3,7,8,9-HxCDD	3.41				13C-1,2,3,7,8,9-HxCDD	100	32 - 141	
1,2,3,4,6,7,8-HpCDD	175				13C-1,2,3,4,6,7,8-HpCDD	109	23 - 140	
OCDD	2130				13C-OCDD	92.4	17 - 157	
2,3,7,8-TCDF	91.1				13C-2,3,7,8-TCDF	109	24 - 169	
1,2,3,7,8-PeCDF	127				13C-1,2,3,7,8-PeCDF	114	24 - 185	
2,3,4,7,8-PeCDF	63.8				13C-2,3,4,7,8-PeCDF	117	21 - 178	
1,2,3,4,7,8-HxCDF	203				13C-1,2,3,4,7,8-HxCDF	103	26 - 152	
1,2,3,6,7,8-HxCDF	56.0				13C-1,2,3,6,7,8-HxCDF	100	26 - 123	
2,3,4,6,7,8-HxCDF	14.4				13C-2,3,4,6,7,8-HxCDF	99.9	28 - 136	
1,2,3,7,8,9-HxCDF	9.95				13C-1,2,3,7,8,9-HxCDF	100	29 - 147	
1,2,3,4,6,7,8-HpCDF	118				13C-1,2,3,4,6,7,8-HpCDF	94.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	43.0				13C-1,2,3,4,7,8,9-HpCDF	109	26 - 138	
OCDF	204				13C-OCDF	88.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	97.1	35 - 197	

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

TEQMinWHO2005Dioxin 67.0

TOTALS								
Total TCDD	6.30		7.19					
Total PeCDD	13.1							
Total HxCDD	83.2							
Total HpCDD	389							
Total TCDF	251		252	P				
Total PeCDF	335							
Total HxCDF	384							
Total HpCDF	270							

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-047SC-A-04-05-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-08 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 11.9 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 30-Oct-2020 9:30	% Solids: 84.1	Date Analyzed: 26-Nov-20 17:35 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0679			IS 13C-2,3,7,8-TCDD	91.8	25 - 164	
1,2,3,7,8-PeCDD	ND	0.120			13C-1,2,3,7,8-PeCDD	73.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.132			13C-1,2,3,4,7,8-HxCDD	78.0	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.144			13C-1,2,3,6,7,8-HxCDD	80.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.153			13C-1,2,3,7,8,9-HxCDD	82.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.54				13C-1,2,3,4,6,7,8-HpCDD	76.3	23 - 140	
OCDD	32.0			B	13C-OCDD	70.6	17 - 157	
2,3,7,8-TCDF	0.450			J	13C-2,3,7,8-TCDF	88.9	24 - 169	
1,2,3,7,8-PeCDF	0.505			J	13C-1,2,3,7,8-PeCDF	78.9	24 - 185	
2,3,4,7,8-PeCDF	0.301			J	13C-2,3,4,7,8-PeCDF	79.2	21 - 178	
1,2,3,4,7,8-HxCDF	0.834			J	13C-1,2,3,4,7,8-HxCDF	81.0	26 - 152	
1,2,3,6,7,8-HxCDF	0.236			J	13C-1,2,3,6,7,8-HxCDF	82.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.152			13C-2,3,4,6,7,8-HxCDF	85.1	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.251			13C-1,2,3,7,8,9-HxCDF	82.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.854			J	13C-1,2,3,4,6,7,8-HpCDF	77.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.125			13C-1,2,3,4,7,8,9-HpCDF	73.4	26 - 138	
OCDF	1.68			J	13C-OCDF	72.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	102	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.301

TOTALS								
Total TCDD	ND	0.0679						
Total PeCDD	ND	0.120						
Total HxCDD	1.10							
Total HpCDD	6.07							
Total TCDF	1.74		1.94					
Total PeCDF	1.12		2.10					
Total HxCDF	1.93							
Total HpCDF	0.854		1.82					

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-1047SC-A-02-03-201030 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2002375-09 Date Received: 03-Nov-2020 9:27
Project: GascoSiltronic: US Moorings	Sample Size: 19.2 g	QC Batch: B0K0172 Date Extracted: 19-Nov-2020 12:50
Date Collected: 30-Oct-2020 0:00	% Solids: 55.1	Date Analyzed: 26-Nov-20 18:20 Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.501		IS 13C-2,3,7,8-TCDD	82.7	25 - 164	
1,2,3,7,8-PeCDD	1.46			J	13C-1,2,3,7,8-PeCDD	75.3	25 - 181	
1,2,3,4,7,8-HxCDD	1.40			J	13C-1,2,3,4,7,8-HxCDD	78.2	32 - 141	
1,2,3,6,7,8-HxCDD	10.2				13C-1,2,3,6,7,8-HxCDD	76.2	28 - 130	
1,2,3,7,8,9-HxCDD	3.98				13C-1,2,3,7,8,9-HxCDD	80.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	181				13C-1,2,3,4,6,7,8-HpCDD	78.3	23 - 140	
OCDD	1860			B	13C-OCDD	76.3	17 - 157	
2,3,7,8-TCDF	13.6				13C-2,3,7,8-TCDF	74.1	24 - 169	
1,2,3,7,8-PeCDF	23.7				13C-1,2,3,7,8-PeCDF	84.2	24 - 185	
2,3,4,7,8-PeCDF	11.7				13C-2,3,4,7,8-PeCDF	83.9	21 - 178	
1,2,3,4,7,8-HxCDF	45.6				13C-1,2,3,4,7,8-HxCDF	82.0	26 - 152	
1,2,3,6,7,8-HxCDF	12.5				13C-1,2,3,6,7,8-HxCDF	80.8	26 - 123	
2,3,4,6,7,8-HxCDF	3.47				13C-2,3,4,6,7,8-HxCDF	83.0	28 - 136	
1,2,3,7,8,9-HxCDF	2.29			J	13C-1,2,3,7,8,9-HxCDF	81.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	35.9				13C-1,2,3,4,6,7,8-HpCDF	77.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.75				13C-1,2,3,4,7,8,9-HpCDF	75.7	26 - 138	
OCDF	64.5				13C-OCDF	72.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	103	35 - 197	

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

TEQMinWHO2005Dioxin 17.8

TOTALS		
Total TCDD	4.89	5.76
Total PeCDD	10.8	13.3
Total HxCDD	80.3	
Total HpCDD	399	
Total TCDF	46.6	50.0
Total PeCDF	69.7	70.6
Total HxCDF	109	
Total HpCDF	87.7	

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.

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

2002375 1-9°C

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20201030-124905
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-045SC-A-01-02-201030	N	SE	10/30/2020	12:30	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
002	USMPDI-045SC-A-02-03-201030	N	SE	10/30/2020	12:30	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
003	USMPDI-045SC-A-03-04-201030	N	SE	10/30/2020	12:30	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
004	USMPDI-045SC-A-04-05-201030	N	SE	10/30/2020	12:30	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
005	USMPDI-047SC-A-01-02-201030	N	SE	10/30/2020	9:30	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
006	USMPDI-047SC-A-02-03-201030	N	SE	10/30/2020	9:30	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	30 30	4°C 4°C
007	USMPDI-047SC-A-03-04-201030	N	SE	10/30/2020	9:30	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	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>Delaney Peterson</i>	Print Name <i>William R Wright</i>	Print Name	Print Name	Print Name	Print Name
Company <i>Anchor QEA</i>	Company <i>VAL</i>	Company	Company	Company	Company
Date/Time <i>2002375 @ 10/30</i>	Date/Time <i>11/3/20 09:27</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

2002375

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: VISTA-20201030-124905
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative	
007	USMPDI-047SC-A-03-04-201030	N	SE	10/30/2020	9:30	1	<input type="checkbox"/>					
									Total solids (VISTA)	SM2540G	30	4°C
008	USMPDI-047SC-A-04-05-201030	N	SE	10/30/2020	9:30	1	<input type="checkbox"/>					
									Dioxin/Furans	E1613B	30	4°C
									Total solids (VISTA)	SM2540G	30	4°C
009	USMPDI-1047SC-A-02-03-201030	FD	SE	10/30/2020		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>Sgt. H. Norwood</i>	Print Name <i>William R. Wight</i>	Print Name	Print Name	Print Name	Print Name
Company <i>Anchor QEA</i>	Company <i>VAC</i>	Company	Company	Company	Company
Date/Time <i>30 Oct 20 @ 1445</i>	Date/Time <i>11/3/20 09:27</i>	Date/Time	Date/Time	Date/Time	Date/Time

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2002375 TAT Std

Samples Arrival:	Date/Time: 11/3/20 09:27	Initials: WRW	Location: WR-2
			Shelf/Rack: NA
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: 1.9 (uncorrected)	Probe used: Y <input checked="" type="checkbox"/> N		Thermometer ID: IR-3
Temp °C: 1.9 (corrected)			

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>2 of 2</u> Trk # <u>7719 6992 2844</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
	<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Dispose	
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Logged In:	Date/Time: 11/04/20 13:36	Initials: WR	Location: WR-2
			Shelf/Rack: D-3
COC Anomaly/Sample Acceptance Form completed?			<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2002375

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2002375-01	A USMPDI-045SC-A-01-02-201030	<input checked="" type="checkbox"/>	30-Oct-20 12:30	Amber Glass, 120 mL	Solid	
2002375-02	A USMPDI-045SC-A-02-03-201030	<input checked="" type="checkbox"/>	30-Oct-20 12:30	Amber Glass, 120 mL	Solid	
2002375-03	A USMPDI-045SC-A-03-04-201030	<input checked="" type="checkbox"/>	30-Oct-20 12:30	Amber Glass, 120 mL	Solid	
2002375-04	A USMPDI-045SC-A-04-05-201030	<input checked="" type="checkbox"/>	30-Oct-20 12:30	Amber Glass, 120 mL	Solid	
2002375-05	A USMPDI-047SC-A-01-02-201030	<input checked="" type="checkbox"/>	30-Oct-20 09:30	Amber Glass, 120 mL	Solid	
2002375-06	A USMPDI-047SC-A-02-03-201030	<input checked="" type="checkbox"/>	30-Oct-20 09:30	Amber Glass, 120 mL	Solid	
2002375-07	A USMPDI-047SC-A-03-04-201030	<input checked="" type="checkbox"/>	30-Oct-20 09:30	Amber Glass, 120 mL	Solid	
2002375-08	A USMPDI-047SC-A-04-05-201030	<input checked="" type="checkbox"/>	30-Oct-20 09:30	Amber Glass, 120 mL	Solid	
2002375-09	A USMPDI-1047SC-A-02-03-201030	<input checked="" type="checkbox"/>	30-Oct-20 00:00	Amber Glass, 120 mL	Solid	

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

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: **A** No time listed on sample label

Verified by/Date: GA 11/04/20

EXTRACTION INFORMATION

Process Sheet
Workorder: 2002375

Prep Expiration: 2021-10-30
 Client: Anchor QEA, LLC

Workorder Due: 01-Dec-20 00:00
 TAT: 28

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

Prep Batch: BOK0172

Prep Data Entered: IM 11/24/20
Date and Initials

Initial Sequence: SOK0075

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002375-01	<input checked="" type="checkbox"/>	USMPDI-045SC-A-01-02-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-02	<input checked="" type="checkbox"/>	USMPDI-045SC-A-02-03-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-03	<input checked="" type="checkbox"/>	USMPDI-045SC-A-03-04-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-04	<input checked="" type="checkbox"/>	USMPDI-045SC-A-04-05-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-05	<input checked="" type="checkbox"/>	USMPDI-047SC-A-01-02-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-06	<input checked="" type="checkbox"/>	USMPDI-047SC-A-02-03-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-07	<input checked="" type="checkbox"/>	USMPDI-047SC-A-03-04-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-08	<input checked="" type="checkbox"/>	USMPDI-047SC-A-04-05-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-09	<input checked="" type="checkbox"/>	USMPDI-1047SC-A-02-03-201030	03-Nov-20 09:27	WR-2 D-3	

WO Comments: 1613: 10g dw

Pre-Prep Check Out: AO 11/19/20
 Pre-Prep Check In: AO 11/20/20

Prep Check Out: RR 11/19/20
 Prep Check In: RR 11/19/20

Prep Reconciled Initials/Date: AO 11/19/20
 Spike Reconciled Initials/Date: RR 11/19/20
 VialBoxID: Furkely

PREPARATION BENCH SHEET

Matrix: Solid

B0K0172

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Nov-20 12:50

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
A1	B0K0172-BLK1	NA	(10.00)	RR ME 11/19/20	DG 1M 11/22/20	NA	DG 11/22/20	DG 11/22/20	DG 11/23/20	DG 1M 11/24/20
A2	B0K0172-BS1	↓	(10.00)	↓	↓	↓	↓	↓	↓	↓
A3	B0K0172-DUP1 2002374-08	11.45	11.57	↓	↓	↓	green, blue	pink, and rings	↓	↓
A4	2002374-01	11.28	11.36	↓	↓	↓	Salmon ring	↓	↓	↓
A5	2002374-02	15.42	15.53	↓	↓	↓	indigo	yellow and rings	↓	↓
A6	2002374-03	16.10	16.27	↓	↓	↓	yellow	and magenta rings	↓	↓
A7	2002374-04	11.50	11.58	↓	↓	↓	↓	Salmon ring	↓	↓
A8	2002374-05 (A)	16.63	16.81	↓	↓	↓	orange, black, and green	yellow, and teal	↓	↓
A9	2002374-06	13.87	13.91	↓	↓	↓	yellow and teal	black, teal	↓	↓
A10	2002374-07	13.28	13.37	↓	↓	↓	yellow	and purple	↓	↓
A11	2002374-08	11.45	11.65	↓	↓	↓	pale green ring	↓	↓	↓
A12	2002375-01	19.68	19.72	↓	↓	↓	black, maroon, teal	yellow, teal	↓	↓
B1	2002375-02	16.42	16.90	↓	↓	↓	black, teal, purple	yellow, purple	↓	↓
B2	2002375-03	11.51	11.52	↓	↓	↓	pale and beige rings	blue, pink, beige rings	↓	↓
B3	2002375-04	11.38	11.44	↓	↓	↓	↓	beige ring	↓	↓

IS: 20F1101, 10ml (V3)	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: RR 11/19/20	Soxhlet Siphoned Chemist/Date: RR 11/19/20	Notes: (A) Particulate stuck in 500ml rb unable to be transferred to column. DG 11/22/20 ① DG 11/24/20
NS: 20F0107, 10ml (V4)	Start Date/Time 11/19/20 1527	SOLV: Toluene	Check In: RR 11/19/20	Vial Transfer Chemist/Date: RR 11/19/20	
PS/CRS: 20E0701, 10ml (V1)	Stop Date/Time 11/20/20 0754	Other: NA	Balance ID: HRMS-10	1M 11/24/20	
RS: 20E0702, 10ml (V1)		Final Volume(s) C14 20ml			

Comments:
 1 = Sample approached dryness on rotovap
 2 = Sample bumped on rotovap; lost < 5%
 3 = Sample poured through Na2SO4 to remove water
 4 = Precipitate present at Final Volume

5 = Sample homogenized in secondary container
 6 = Sample clogged during extraction; pipetted and used Nitrogen to assist
 7 = Soxhlet approached dryness

PREPARATION BENCH SHEET

Matrix: Solid

B0K0172

Chemist: RR

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 19-Nov-20 12:50

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B4	2002375-05*	19.80	19.86	RRME 11/19/20	NA	DG IM 11/22/20	NA	DG 11/22/20	DG 11/22/20	DG 11/23/20	DG IM 11/24/20
B5	2002375-06	18.28	18.39	↓		↓	↓	DG 11/22/20	yellow, black, and green	↓	↓
B6	2002375-07	17.14	17.62	↓		↓	↓	DG 11/22/20	beige ring	↓	↓
B7	2002375-08	11.89	11.91	↓		↓	↓	DG 11/22/20	yellow, salmon, and beige rings	↓	↓
B8	2002375-09	18.14	19.18	↓		↓	↓	DG 11/22/20	yellow, black, and indigo	↓	↓
B9	2002436-02RE1	12.12	12.58	↓		↓	↓	DG 11/22/20	pale salmon yellow and rings	↓	↓

IS: 20F1101, 10mL (V3)	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: Chemist/Date: RR 11/19/20	Soxhlet Siphoned Chemist/Date: RR 11/19/20	Notes: * ABSG brown, yellow, black, and green. DG 11/22/20 B during transfer to conical vial, pipette broke & some of hexane rinse lost IM 11/24/20
NS: 20F0107, 10mL (V4)	Start Date/Time 11/19/20 1527	SOLV: Toluene	Check In: Chemist/Date: RR 11/19/20	Vial Transfer Chemist/Date: IM 11/24/20	
PS/CRS: 20E0701, 10mL (V1)	Stop Date/Time 11/20/20 0754	Other NA	Balance ID: HRMS-10		
RS: 20E0702, 10mL (V1)		Final Volume(s) C14 20mL			
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

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0K0049

Analyst: AO ✓	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) <u>CHT 11/13/20</u>
Analyte:	Units: %	
Dried at 110°C±5°C Oven ID: 01 ✓ 02		

Inst HRMS-9 ✓

Date/Time IN: 11/06/20 1232 ✓
Date/Time OUT: 11/13/20 1350 ✓

B		C	D	E		F	G	H	I	K				L	M	N	O	P
Particle Size	SampID	A	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added				AO 11/06/20
				Pan Tare Wt. (gms)														AO 11/06/20
	2002375-01	✓	Sample	1.3000 ✓		7.5400 ✓	4.4700 ✓	3.1700	50.80	Mud ✓	n/a	n/a	n/a	n/a				x ✓
	2002375-02		Sample	1.2700 ✓		10.4500 ✓	6.8600 ✓	5.5900	60.89	Mud ✓	n/a	n/a	n/a	n/a				x
	2002375-03		Sample	1.2700 ✓		7.2100 ✓	6.4300 ✓	5.1600	86.87	Sand ✓	n/a	n/a	n/a	n/a				x
	2002375-04		Sample	1.2600 ✓		6.7100 ✓	6.0500 ✓	4.7900	87.89	Sand ✓	n/a	n/a	n/a	n/a				x
	2002375-05		Sample	1.2700 ✓		10.0800 ✓	5.7200 ✓	4.4500	50.51	Mud ✓	n/a	n/a	n/a	n/a				x
	2002375-06		Sample	1.2800 ✓		5.1000 ✓	3.3700 ✓	2.0900	54.71	Mud ✓	n/a	n/a	n/a	n/a				x
	2002375-07		Sample	1.2800 ✓		8.2900 ✓	5.3700 ✓	4.0900	58.35	Mud ✓	n/a	n/a	n/a	n/a				x
	2002375-08		Sample	1.2600 ✓		6.6700 ✓	5.8100 ✓	4.5500	84.10	Sand ✓	n/a	n/a	n/a	n/a				x
	2002375-09		Sample	1.2800 ✓		7.9000 ✓	4.9300 ✓	3.6500	55.14	Mud ✓	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 B0K0049

Analyst: AO	Test Code: %Moist%Solids	Data Entry Verified by: (Initial and Date) _____
Analyte:	Units: %	
Oven ID: 01 02	Dried at 110°C±5°C	

Inst **HRMS-9**

Date/Time IN: **11/06/20** 12:57
 Date/Time OUT: **11/13/20** 13:50

Particle Size	SampID	SampType	Initial and Date: 11/06/20		CHT 11/13/20		Dry Sample Weight (g)	%Solids RawVal	11/06/20				Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Visual Inspection			pH Before	pH After	Acid Added		
	2002375-01	Sample	1.30	7.54	4.47			mud					X
	2002375-02	Sample	1.27	10.45	6.86			↓					X
	2002375-03	Sample	1.27	7.21	6.43			sand					X
	2002375-04	Sample	1.26	6.71	6.05			↓					X
	2002375-05	Sample	1.27	10.08	5.22			mud					X
	2002375-06	Sample	1.28	5.10	3.37			↓					X
	2002375-07	Sample	1.28	8.29	5.37			↓					X
	2002375-08	Sample	1.26	6.67	5.81			sand					X
	2002375-09	Sample	1.28	7.90	4.93			mud					X

*Sample homogenized in sample container unless otherwise noted.

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002374-01	11.36 ✓	88.6628	10.0721	20 ✓	19-Nov-20 12:50	RR ✓			Sediment	1613 Full List
2002374-02	15.53 ✓	64.86487	10.0735	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-03	16.27 ✓	62.12121	10.1071	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-04	11.58 ✓	86.96538	10.0706	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-05	16.81 ✓	60.13289	10.1083	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-06	13.91 ✓	72.07793	10.0260	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-07	13.37 ✓	75.30434	10.0682	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002374-08	11.65 ✓	87.34567	10.1758	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-01	19.72 ✓	50.80128	10.0180	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-02	16.9 ✓	60.89325	10.2910	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-03	11.52 ✓	86.86868	10.0073	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-04	11.44 ✓	87.88991	10.0546	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-05	19.86 ✓	50.51078	10.0314	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-06	18.39 ✓	54.71204	10.0615	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-07	17.62 ✓	58.34522	10.2804	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-08	11.91 ✓	84.10351	10.0167	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002375-09	19.18 ✓	55.13595	10.5751	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
2002436-02RE1	12.58 ✓	82.49337	10.3777	20	19-Nov-20 12:50	RR			Sediment	1613 Full List
B0K0172-BLK1	10 ✓			20	19-Nov-20 12:50	RR				QC
B0K0172-BS1	10 ✓			20	19-Nov-20 12:50	RR	20F0107 ✓	10 ✓		QC
B0K0172-DUP1	11.57 ✓			20 ✓	19-Nov-20 12:50 ✓	RR ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) IM 11/24/20

Process Sheet
 Workorder: **2002375**

RX

CT 12/01/2020

Prep Expiration: 2021-10-30
 Client: Anchor QEA, LLC

Workorder Due: 01-Dec-20 00:00

TAT: 28

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

Prep Batch: BOL0009

RUSH!

Prep Data Entered: AO 12/04/20
 Date and Initials

Initial Sequence: SOL0013

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2002375-01	<input type="checkbox"/>	USMPDI-045SC-A-01-03-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-02	<input type="checkbox"/>	USMPDI-045SC-A-02-03-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-03	<input type="checkbox"/>	USMPDI-045SC-A-03-04-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-04	<input type="checkbox"/>	USMPDI-045SC-A-04-05-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-05	<input checked="" type="checkbox"/>	USMPDI-047SC-A-01-02-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-06	<input type="checkbox"/>	USMPDI-047SC-A-02-03-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-07	<input checked="" type="checkbox"/>	USMPDI-047SC-A-03-04-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-08	<input type="checkbox"/>	USMPDI-047SC-A-04-05-201030	03-Nov-20 09:27	WR-2 D-3	
2002375-09	<input type="checkbox"/>	USMPDI-1047SC-A-02-03-201030	03-Nov-20 09:27	WR-2 D-3	

WO Comments: **1613: 10g dw**

Pre-Prep Check Out: NA
 Pre-Prep Check In: NA

Prep Check Out: DG 12/02/20
 Prep Check In: DG 12/02/20

Prep Reconciled Initials/Date: DG 12/02/20
 Spike Reconciled Initials/Date: AO 12/02/20
 VialBoxID: Lillipp

PREPARATION BENCH SHEET

Matrix: Solid

BOL0009

Chemist: DG

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 01-Dec-20 16:12

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	Column Packer:	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	Column Packer:	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
A1	BOL0009-BLKI	NA	(10.00)	DG 11 12/02/20		EU 06 12/03/20	N/A		EU 12/03/20	EU 12/03/20	AO 12/04/20	AO EU 12/04/20
A2	BOL0009-BS1	NA	(10.00)									
A3	BOL0009-DUP1 2002433-13	18.29	18.41						Brown/ Black/Yellow			
A4	2002375-07RE1	17.14	17.24						↓			
A5	2002398-10RE1	6.11	6.36						Gray			
A7	2002433-01	17.26	17.36						Brown/Black/ Yellow			
A8	2002433-02	16.02	16.10						↓			
A9	2002433-03 (3)	15.48	15.59						Brown			
A10	2002433-04	13.79	13.90						↓			
A11	2002433-05	15.33	15.47						Brown/Yellow/ Black			
A12	2002433-06	13.91	14.15						↓			
B1	2002433-07	13.36	13.51						Gray			
B2	2002433-08	11.12	11.17						↓			
B3	2002433-09	17.26	17.39						Brown/Yellow/ Black			
B4	2002433-10	17.39	17.42						↓			

IS: 20F1101, 10μL (V3)	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: DG 12/02/20	Soxhlet Siphoned Chemist/Date:	Notes: (3) EU 12/03/20
NS: 20F0107, 10μL (V4)	Start Date/Time: 12/02/20 1141	SOLV: TOLUENE	Check In: DG 12/02/20		
PS/CRS: 20E0701, 10μL (V1)	Stop Date/Time: 12/03/20 0600	Other: NA	Balance ID: HRMS-8	Vial Transfer Chemist/Date: AO 12/04/20	
RS: 20H2502, 10μL (V6)		Final Volume(s): 20μL C14			
Diox/F PCB PAH PEST PBDE HCB					

Comments:

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

PREPARATION BENCH SHEET

Matrix: Solid

B0L0009

Chemist: DG

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 23-Nov-20 08:23

Sox	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS/PS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
B5	2002433-11(3)	17.54	17.60	DG 11/12/02/20	EM 01/12/03/20	N/A	EM 12/03/20*	EM 12/03/20	AO 12/04/20	AO EM 12/04/20
B6	2002433-12	16.98	16.92	T	T	T	T	T	T	T
B7	2002433-13	18.29	18.39	T	T	T	T	T	T	T
B8	2002433-14	17.75	17.86	T	T	T	T	T	T	T
B9	2002433-15	16.32	16.60	T	T	T	T	T	T	T
B10	2002433-16	17.72	17.85	T	T	T	T	T	T	T
B11	2002433-17	17.55	17.68	T	T	T	T	T	T	T
B12	2002540-01	11.66	11.68	↓	↓	↓	↓ Brown	↓	↓	↓

IS: 20F1101, 10mL (3)	Cycle Time	APP: SEFUN (SOX) (SDS)	Check Out: DG 12/02/20	Soxhlet Siphoned Chemist/Date:	Notes: (3) EM 12/03/20
NS: 20F0107, 10mL (4)	Start Date/Time: 12/02/20 1141	SOLV: TOWENE	Check In: DG 12/02/20		(*) Brown/Black/Yellow EM 12/03/20
PS/CRS: 20ED701, 10mL (1)	Stop Date/Time: 12/03/20 0600	Other: NA	Balance ID: HRMS-8	Vial Transfer Chemist/Date: AO 12/04/20	
RS: 20H 2502, 10mL (1)		Final Volume(s): 20mL C14			
Diox/F PCB PAH PEST PBDE HCB					

Comments:

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

Batch: B0L0009

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2002375-07RE1	17.24 ✓	58.34522	10.0587	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002398-10RE1	6.36 ✓	81.88406	5.2078	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-01	17.36 ✓	57.92952	10.0566	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-02	16.1 ✓	62.41758	10.0492	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-03	15.59 ✓	64.60397	10.0718	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-04	13.9 ✓	72.50608	10.0783	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-05	15.47 ✓	65.24999	10.0942	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-06	14.15 ✓	71.86701	10.1692	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-07	13.51 ✓	74.86034	10.1136	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-08	11.17 ✓	89.89072	10.0408	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-09	17.39 ✓	57.93451	10.0748	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-10	17.42 ✓	57.51791	10.0196	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-11	17.6 /	57.00198	10.0323	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-12	16.92 /	59.23568	10.0227	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-13	18.39 /	54.6729	10.0543	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-14	17.86 /	56.3253	10.0597	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-15	16.6 /	61.26316	10.1697	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-16	17.85 /	56.43777	10.0741	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002433-17	17.68 /	56.96864	10.0721	20	02-Dec-20 08:23	DG			Sediment	1613 Full List
2002540-01	11.68 /	85.7404	10.0145	20	02-Dec-20 08:23	DG			Solid	1613 Full List
B0L0009-BLK1	10			20	02-Dec-20 16:12	DG				QC
B0L0009-BS1	10			20	02-Dec-20 16:12	DG	20F0107 ✓	10 ✓		QC
B0L0009-DUP1	18.41 ✓			20 ✓	02-Dec-20 16:12 ✓	DG ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) AS 12/04/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-6.qld

Last Altered: Wednesday, November 25, 2020 13:55:02 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:35:28 Pacific Standard Time

GRB 11/26/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

CT 12/04/2020

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-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	0.950	10.000	26.097		1.001				0.100	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.000	30.816		1.000				0.152	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.143		1.000				0.172	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.260		1.000				0.172	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.000	34.527		1.000				0.186	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.870	10.000	38.017		1.000				0.206	
7	7 OCDD	8.17e2	0.90	NO	0.872	10.000	40.963	40.99	1.000	1.001	1.2902		0.416	1.29
8	8 2,3,7,8-TCDF			NO	0.824	10.000	25.396		1.000				0.0511	
9	9 1,2,3,7,8-PeCDF			NO	0.963	10.000	29.540		1.000				0.0803	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.000	30.602		1.000				0.0684	
11	11 1,2,3,4,7,8-HxCDF			NO	0.953	10.000	33.217		1.000				0.0593	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.000	33.355		1.000				0.0575	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.000	34.030		1.000				0.0694	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.000	35.028		1.000				0.105	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.000	36.604		1.000				0.119	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.000	38.645		1.000				0.142	
17	17 OCDF			NO	0.868	10.000	41.248		1.000				0.246	
18	18 13C-2,3,7,8-TCDD	3.75e5	0.82	NO	1.11	10.000	26.058	26.07	1.030	1.030	209.65	105	0.531	
19	19 13C-1,2,3,7,8-PeCDD	2.14e5	0.66	NO	0.859	10.000	30.774	30.81	1.216	1.218	154.39	77.2	0.502	
20	20 13C-1,2,3,4,7,8-HxCDD	2.08e5	1.30	NO	0.700	10.000	34.132	34.13	1.014	1.014	163.65	81.8	0.729	
21	21 13C-1,2,3,6,7,8-HxCDD	2.48e5	1.27	NO	0.833	10.000	34.270	34.25	1.018	1.017	163.67	81.8	0.612	
22	22 13C-1,2,3,7,8,9-HxCDD	2.32e5	1.26	NO	0.762	10.000	34.513	34.52	1.025	1.025	167.41	83.7	0.669	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.92e5	1.09	NO	0.650	10.000	37.997	38.02	1.129	1.129	162.39	81.2	1.12	
24	24 13C-OCDD	2.91e5	0.93	NO	0.539	10.000	40.963	40.96	1.217	1.217	296.77	74.2	1.12	
25	25 13C-2,3,7,8-TCDF	6.12e5	0.80	NO	0.981	10.000	25.380	25.39	1.003	1.003	184.02	92.0	0.522	
26	26 13C-1,2,3,7,8-PeCDF	4.35e5	1.67	NO	0.792	10.000	29.507	29.53	1.166	1.167	162.01	81.0	0.795	
27	27 13C-2,3,4,7,8-PeCDF	4.08e5	1.63	NO	0.778	10.000	30.564	30.60	1.208	1.210	155.03	77.5	0.810	
28	28 13C-1,2,3,4,7,8-HxCDF	3.22e5	0.49	NO	0.954	10.000	33.223	33.22	0.987	0.987	186.12	93.1	0.986	
29	29 13C-1,2,3,6,7,8-HxCDF	3.33e5	0.50	NO	1.01	10.000	33.355	33.35	0.991	0.991	182.10	91.0	0.934	
30	30 13C-2,3,4,6,7,8-HxCDF	3.02e5	0.50	NO	0.921	10.000	34.025	34.03	1.011	1.011	180.27	90.1	1.02	
31	31 13C-1,2,3,7,8,9-HxCDF	2.59e5	0.50	NO	0.803	10.000	35.021	35.03	1.040	1.041	177.52	88.8	1.17	

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-6.qld

Last Altered: Wednesday, November 25, 2020 13:55:02 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:35:28 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-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	2.42e5	0.42	NO	0.735	10.000	36.590	36.60	1.087	1.087	181.34	90.7	0.910	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.68e5	0.43	NO	0.568	10.000	38.626	38.65	1.147	1.148	163.02	81.5	1.18	
34	34 13C-OCDF	3.77e5	0.88	NO	0.629	10.000	41.246	41.24	1.225	1.225	330.32	82.6	0.677	
35	35 37Cl-2,3,7,8-TCDD	1.72e5			1.09	10.000	26.058	26.10	1.030	1.032	98.229	123	0.233	
36	36 13C-1,2,3,4-TCDD	3.23e5	0.85	NO	1.00	10.000	25.370	25.30	1.000	1.000	200.00	100	0.589	
37	37 13C-1,2,3,4-TCDF	6.78e5	0.80	NO	1.00	10.000	23.870	23.81	1.000	1.000	200.00	100	0.513	
38	38 13C-1,2,3,4,6,9-HxCDF	3.63e5	0.51	NO	1.00	10.000	33.710	33.66	1.000	1.000	200.00	100	0.940	
39	39 Total Tetra-Dioxins				0.950	10.000	24.620		0.000				0.0627	
40	40 Total Penta-Dioxins				0.885	10.000	29.960		0.000				0.0658	
41	41 Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0985	
42	42 Total Hepta-Dioxins				0.870	10.000	37.640		0.000				0.123	
43	43 Total Tetra-Furans				0.824	10.000	23.610		0.000				0.0201	
44	44 1st Func. Penta-Furans				0.963	10.000	26.930		0.000				0.0122	
45	45 Total Penta-Furans				0.963	10.000	29.275		0.000				0.0412	
46	46 Total Hexa-Furans				0.991	10.000	33.555		0.000				0.0354	
47	47 Total Hepta-Furans				0.999	10.000	37.835		0.000				0.0667	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-6.qld

Last Altered: Wednesday, November 25, 2020 13:55:02 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:35:28 Pacific Standard Time

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Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-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\201125R1\201125R1-6.qld

Last Altered: Wednesday, November 25, 2020 13:55:02 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:35:28 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-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												

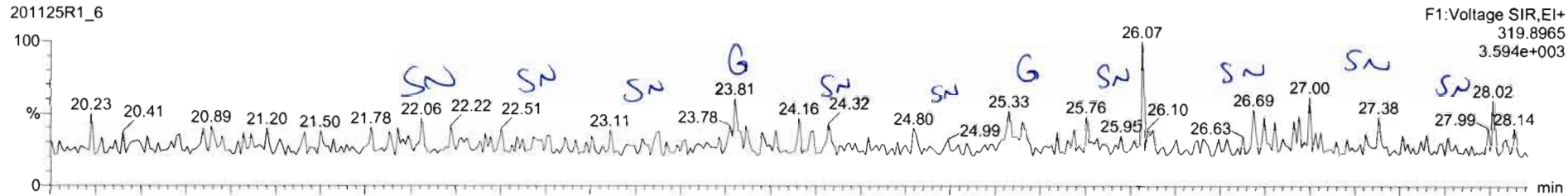
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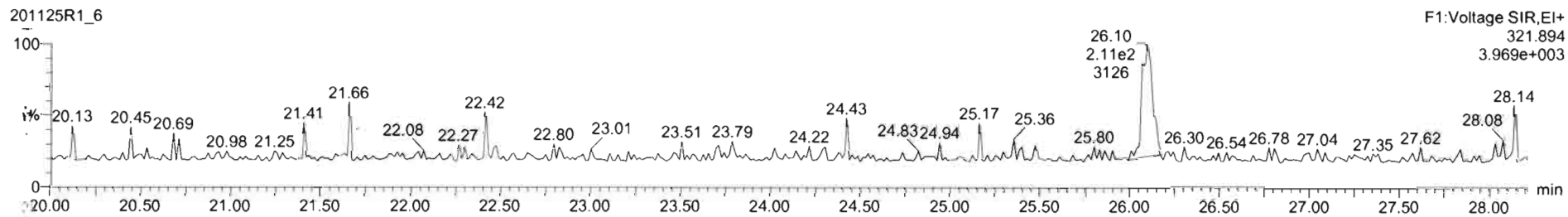
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2,3,7,8-TCDD

201125R1_6

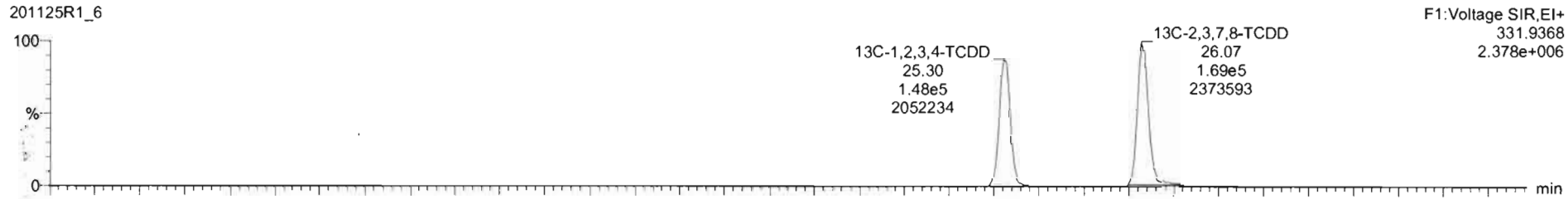


201125R1_6

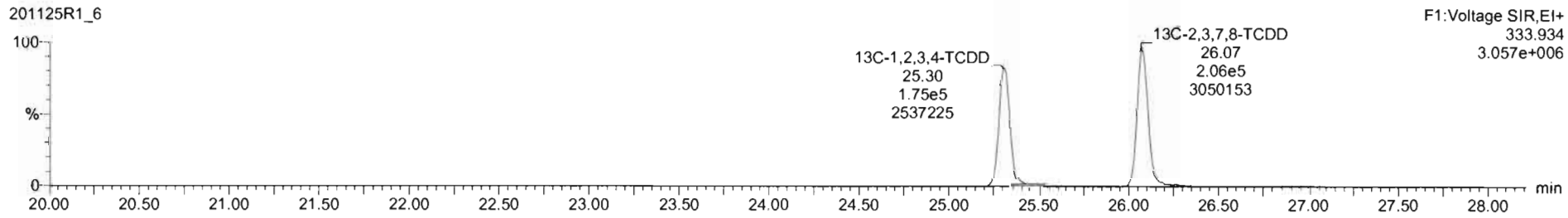


13C-2,3,7,8-TCDD

201125R1_6



201125R1_6



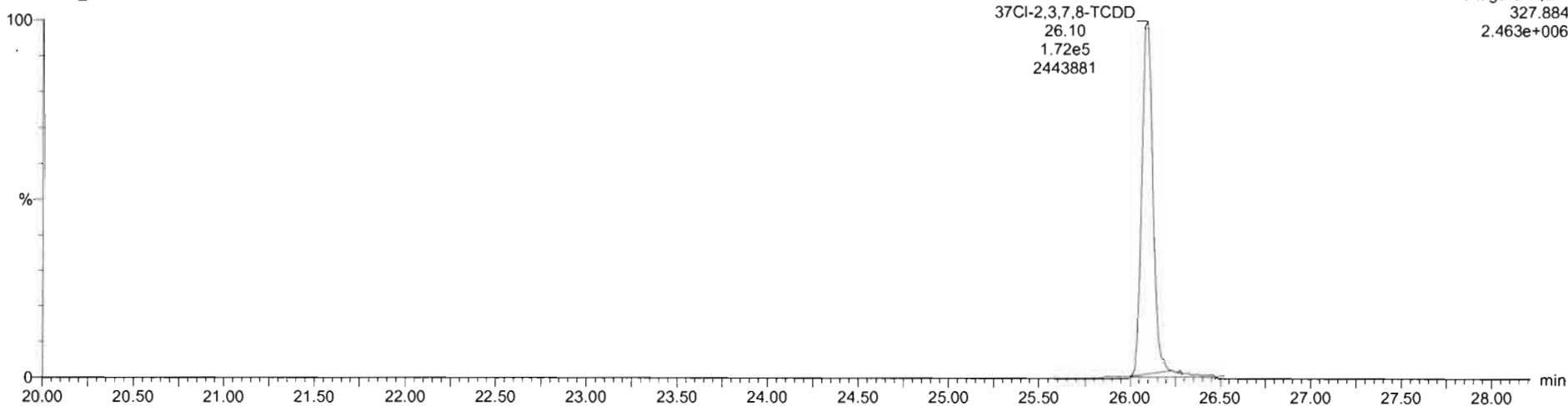
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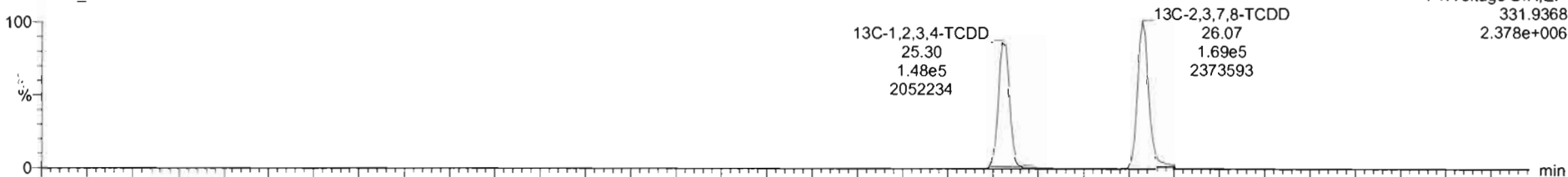
37Cl-2,3,7,8-TCDD

201125R1_6

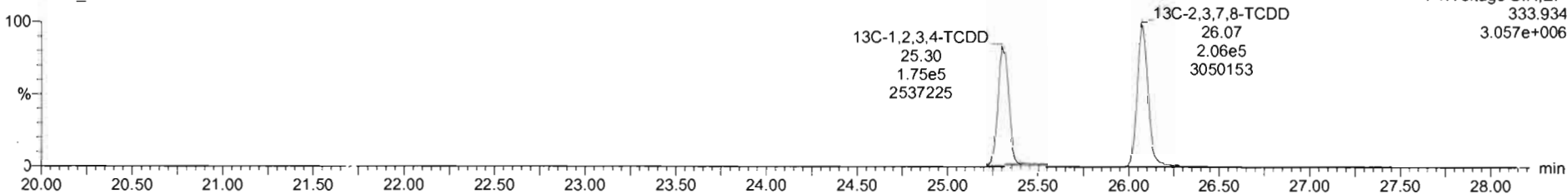


13C-1,2,3,4-TCDD

201125R1_6



201125R1_6



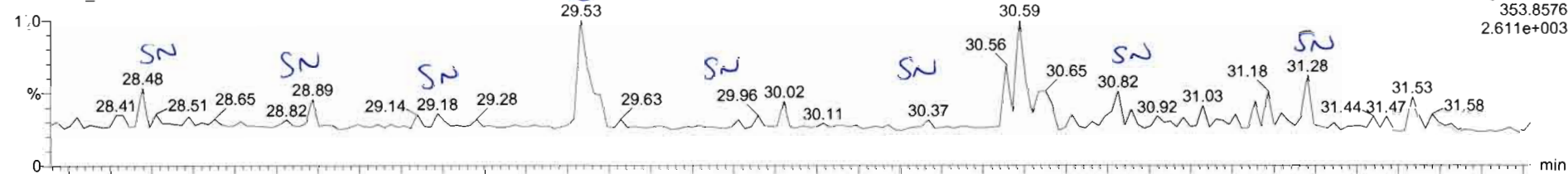
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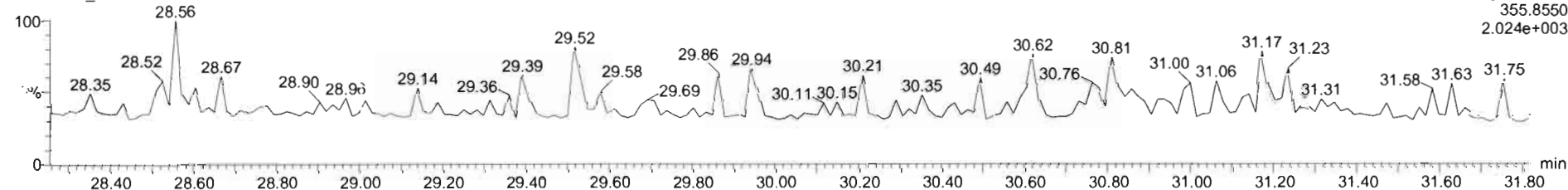
1,2,3,7,8-PeCDD

201125R1_6



F2: Voltage SIR, EI+
353.8576
2.611e+003

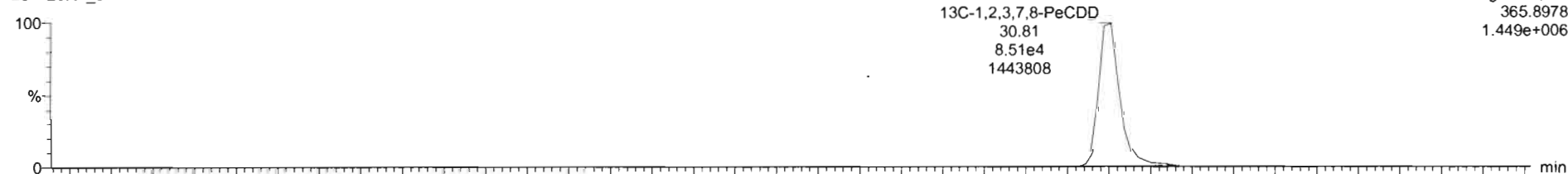
201125R1_6



F2: Voltage SIR, EI+
355.8550
2.024e+003

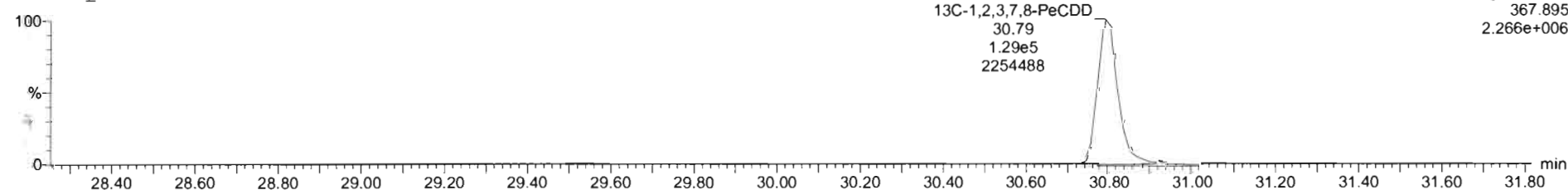
13C-1,2,3,7,8-PeCDD

201125R1_6



F2: Voltage SIR, EI+
365.8978
1.449e+006

201125R1_6



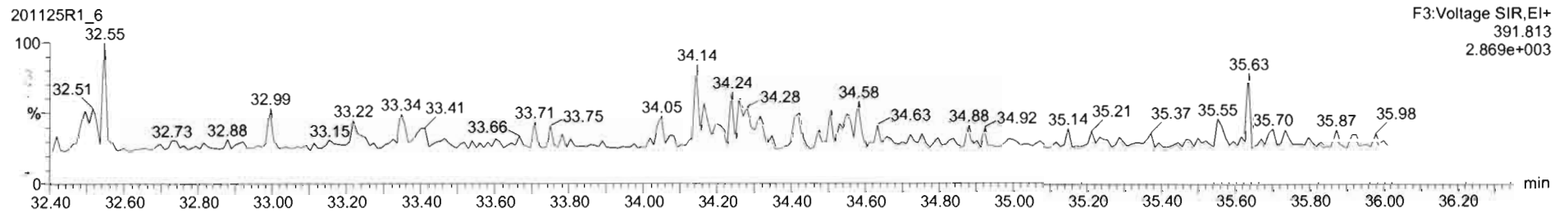
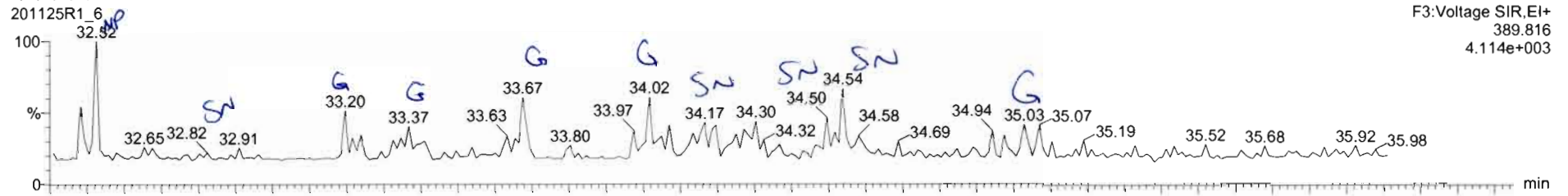
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367.895
2.266e+006

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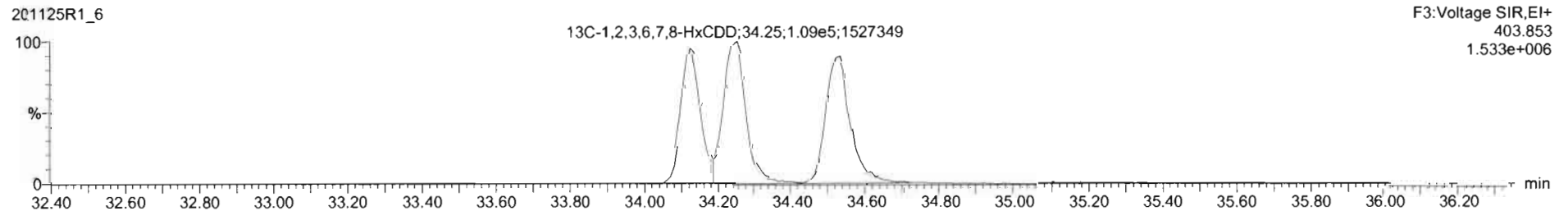
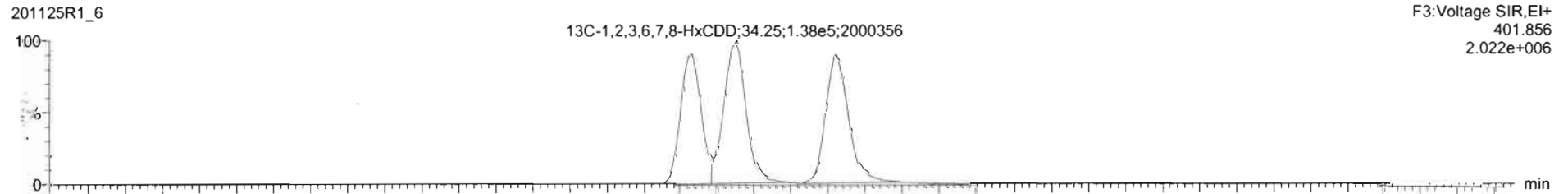
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1,2,3,4,7,8-HxCDD



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



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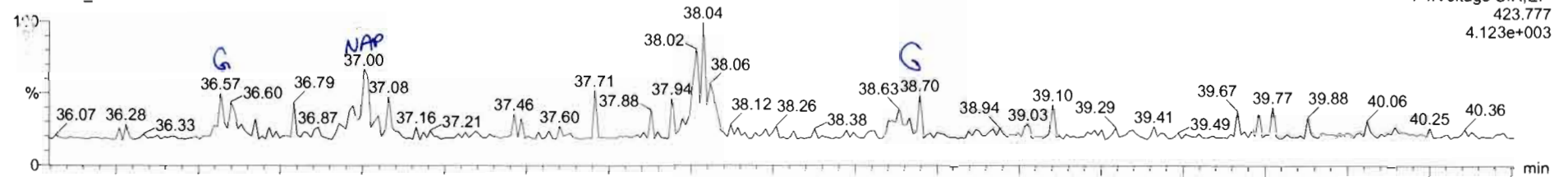
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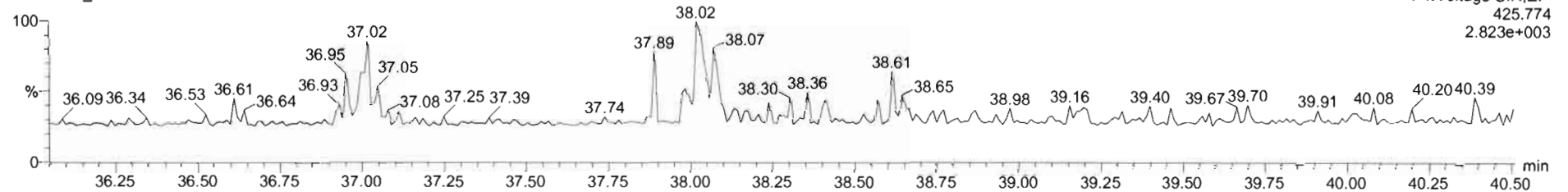
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1,2,3,4,6,7,8-HpCDD

201125R1_6

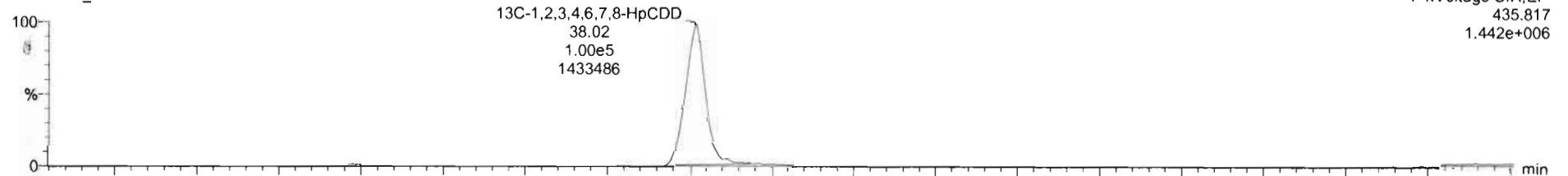


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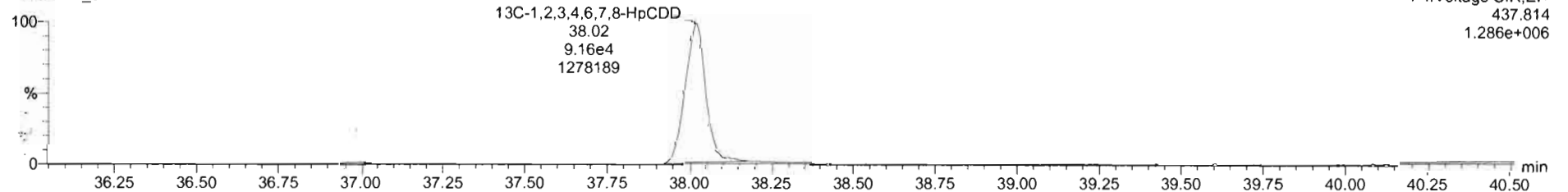


13C-1,2,3,4,6,7,8-HpCDD

201125R1_6



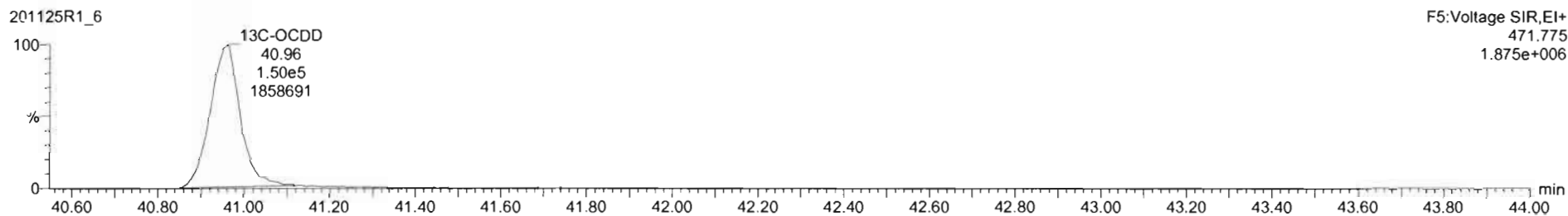
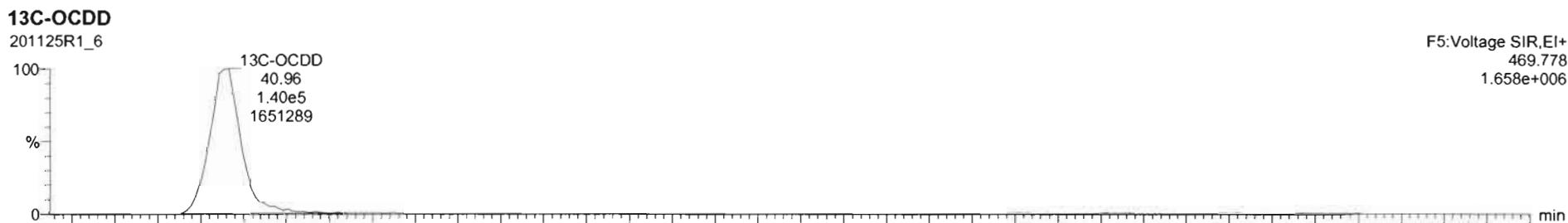
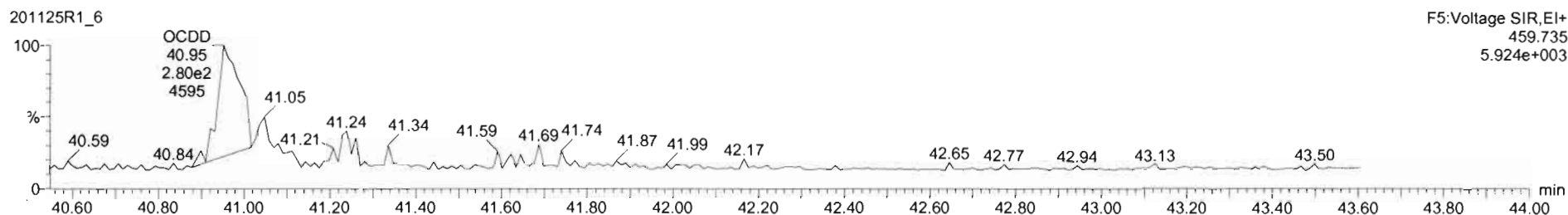
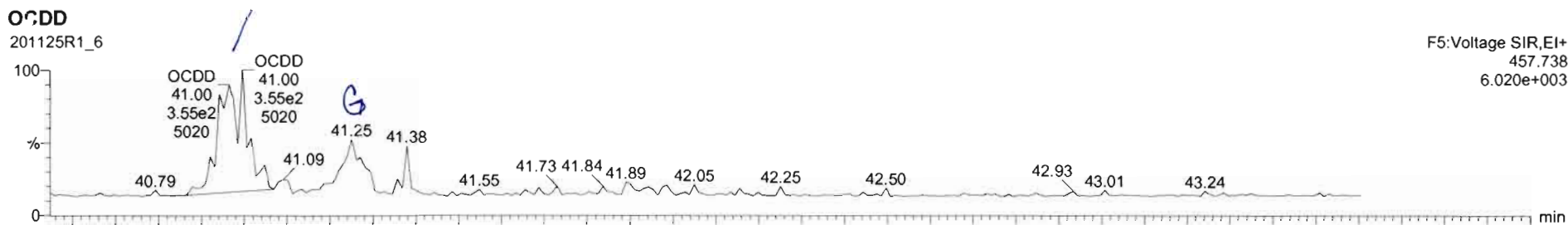
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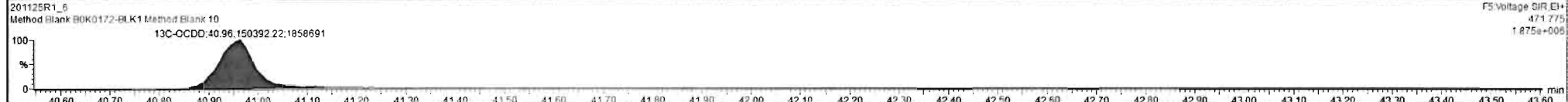
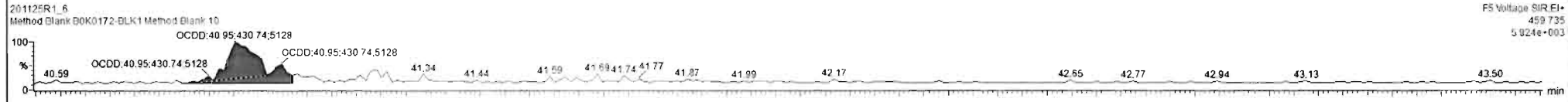
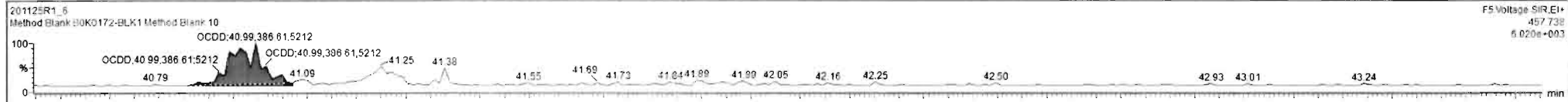
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Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank



201125R1_6 - B0K0172-BLK1 Method Blank 10 - Method Blank

#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9501	10.000					0.100	
2	1,2,3,7,8-PeCDD			NO	0.8855	10.000					0.152	
3	1,2,3,4,7,8-HxCDD			NO	1.0176	10.000					0.172	
4	1,2,3,6,7,8-HxCDD			NO	0.9145	10.000					0.172	
5	1,2,3,7,8,9-HxCDD			NO	0.9345	10.000					0.186	
6	1,2,3,4,6,7,8-HpCDD			NO	0.8697	10.000					0.208	
7	OCDD	8.17e2	0.90	NO	0.8717	10.000	40.99	1.001	1.29		0.418	1.29
8	2,3,7,8-TCDF			NO	0.8243	10.000					0.0511	
9	1,2,3,7,8-PeCDF			NO	0.9626	10.000					0.0803	
10	2,3,4,7,8-PeCDF			NO	1.0684	10.000					0.0884	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	10.000					0.0593	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.000					0.0575	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.000					0.0594	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.000					0.105	
15	1,2,3,4,6,7,8-HpCDF			NO	0.9986	10.000					0.119	
16	1,2,3,4,7,8,9-HoCDF			NO	1.1238	10.000					0.142	
17	OCDF			NO	0.8682	10.000					0.245	
18	13C-2,3,7,8-TCDD	3.75e5	0.82	NO	1.1089	10.000	26.07	1.030	210	105	0.531	
19	13C-1,2,3,7,8-PeCDD	2.14e5	0.86	NO	0.8585	10.000	30.81	1.218	154	77.2	0.502	
20	13C-1,2,3,4,7,8-HxCDD	2.08e5	1.30	NO	0.6997	10.000	34.13	1.014	164	81.8	0.729	
21	13C-1,2,3,6,7,8-HxCDD	2.48e5	1.27	NO	0.8327	10.000	34.25	1.017	164	81.8	0.612	



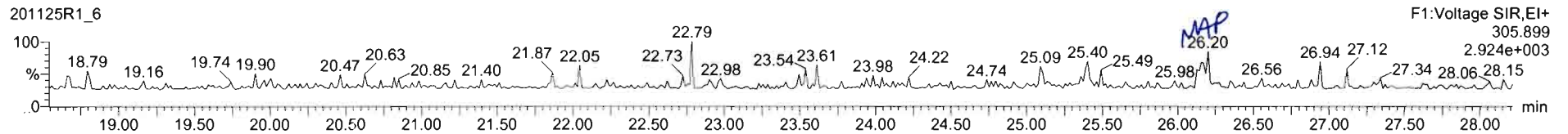
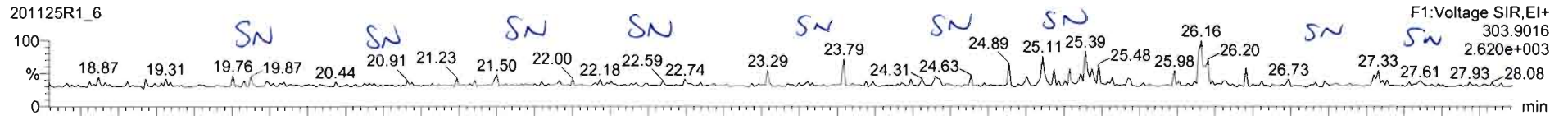
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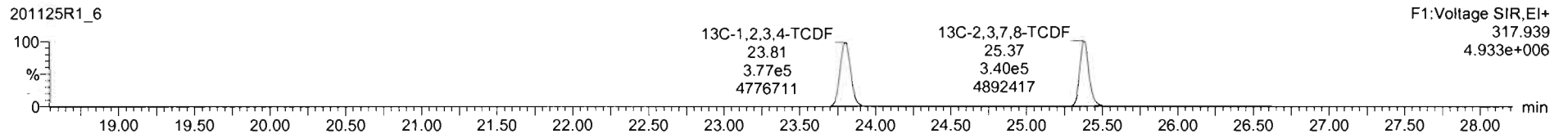
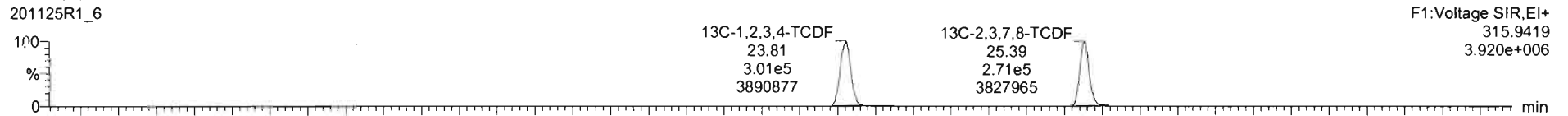
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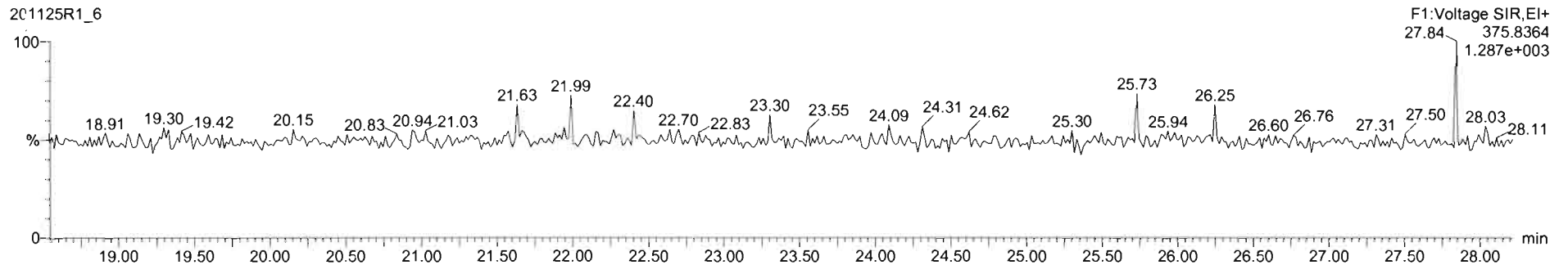
2,3,7,8-TCDF



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



DPE1



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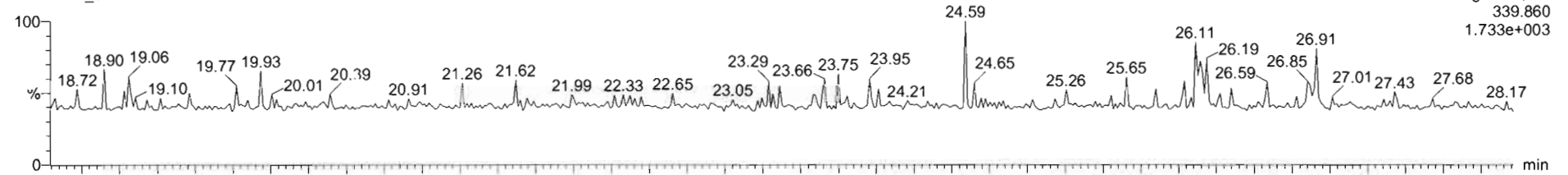
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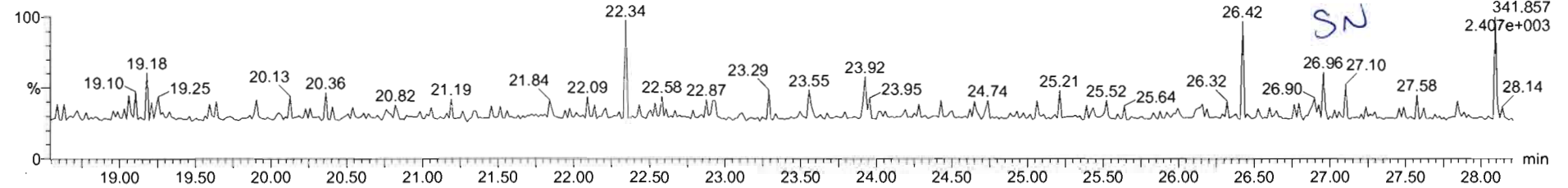
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1st Func. Penta-Furans

201125R1_6

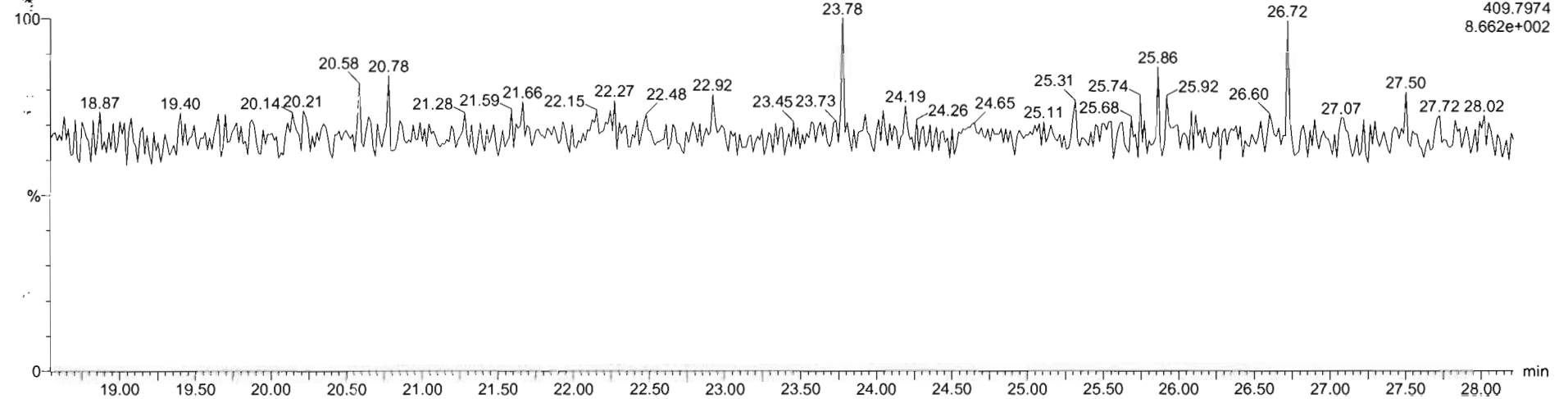


201125R1_6



DPE6

201125R1_6

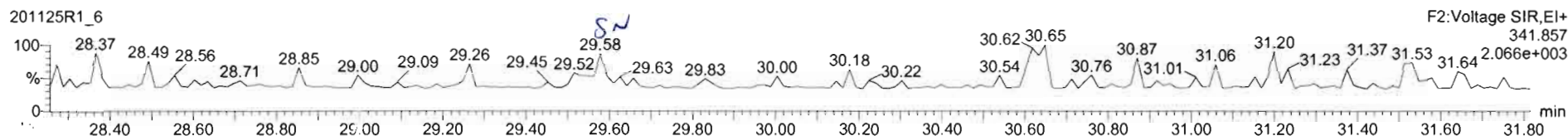
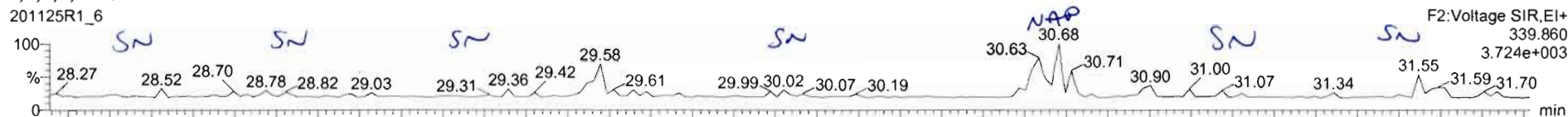


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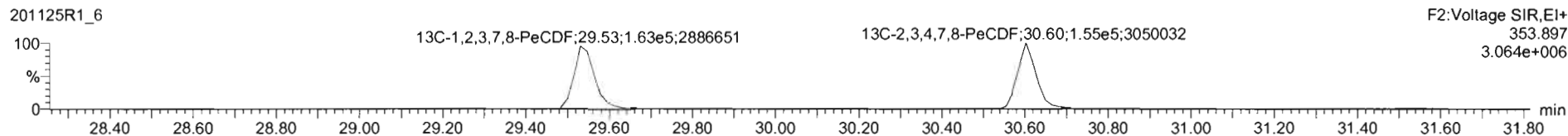
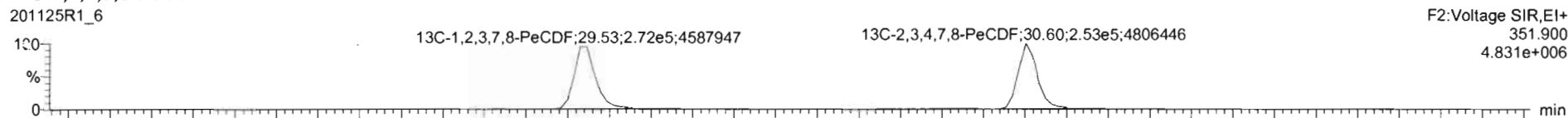
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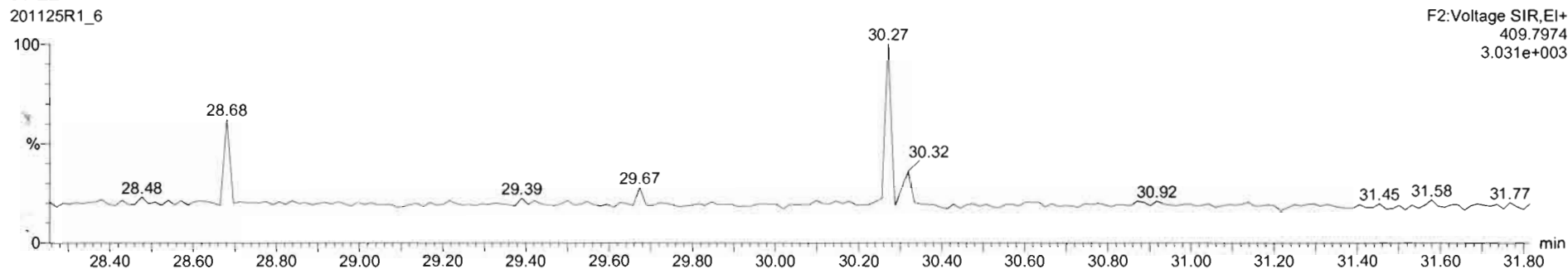
1,2,3,7,8-PeCDF



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



DPE2



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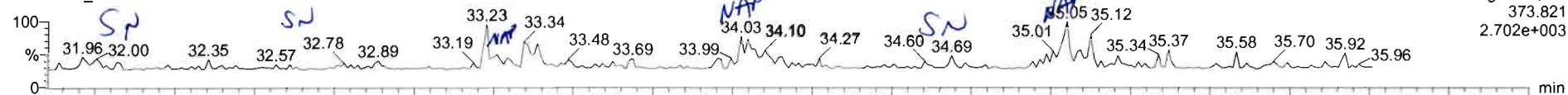
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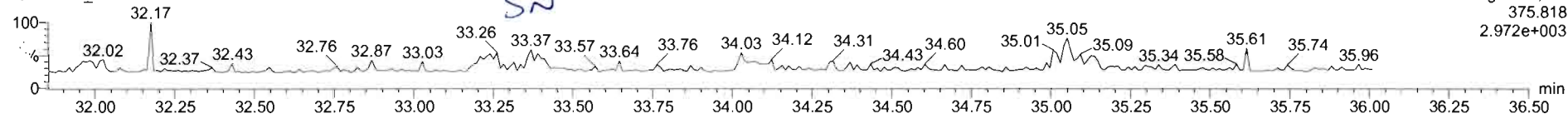
Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

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

201125R1_6

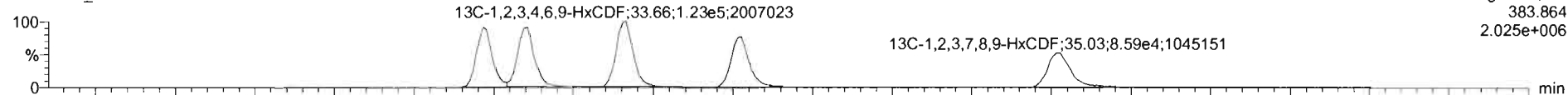


201125R1_6

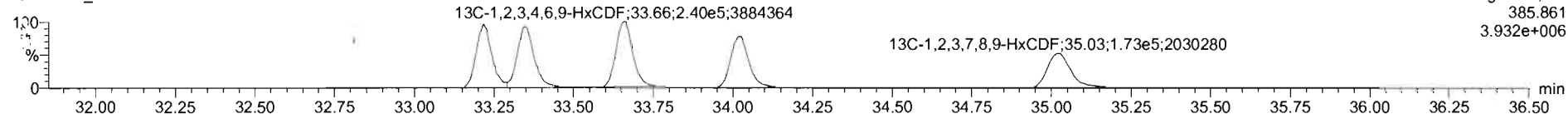


13C-1,2,3,4,7,8-HxCDF

201125R1_6

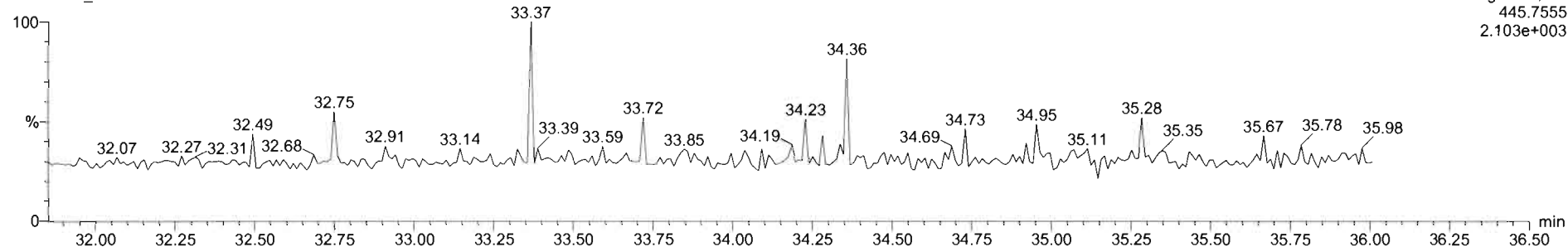


201125R1_6



DPE3

201125R1_6

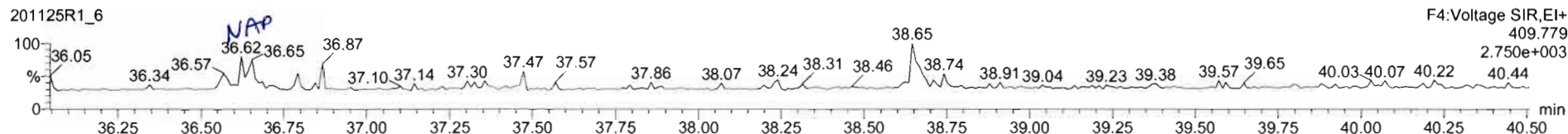
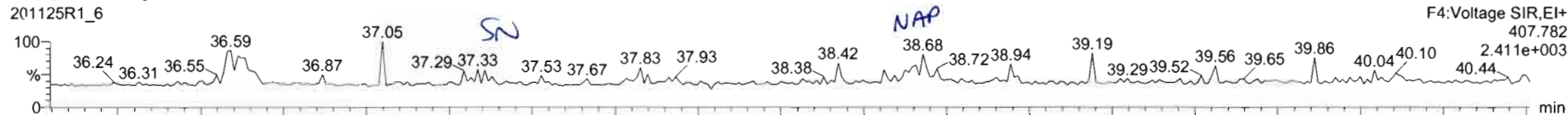


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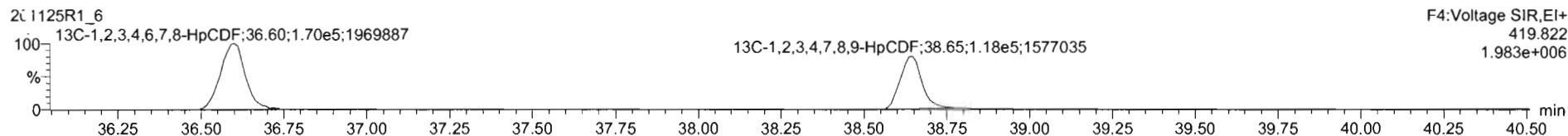
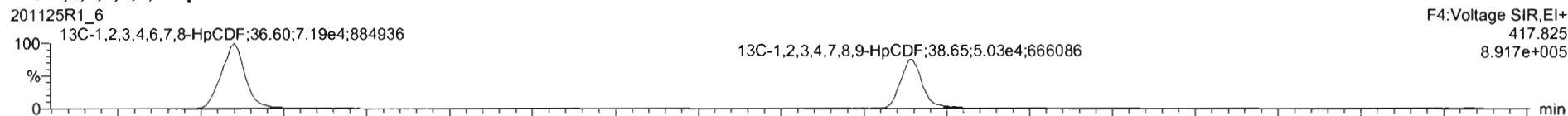
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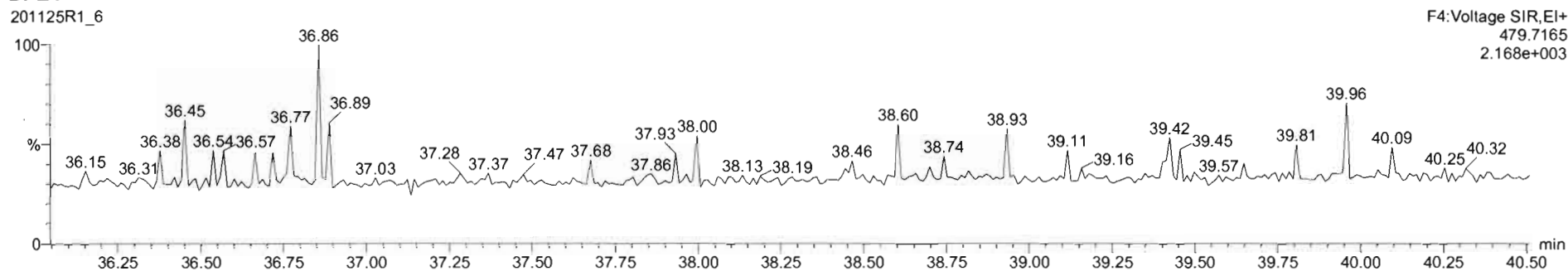
1,2,3,4,6,7,8-HpCDF



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



DPE4

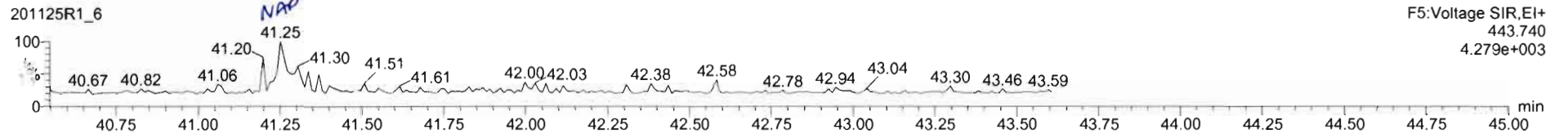
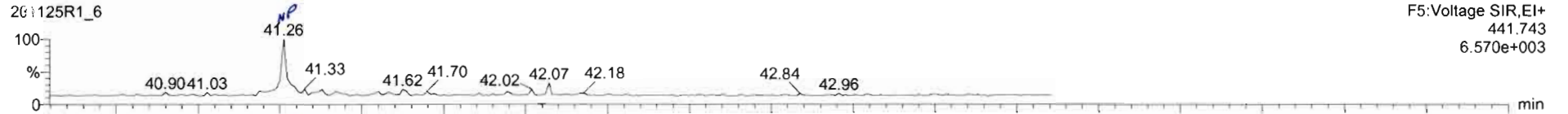


Dataset: Untitled

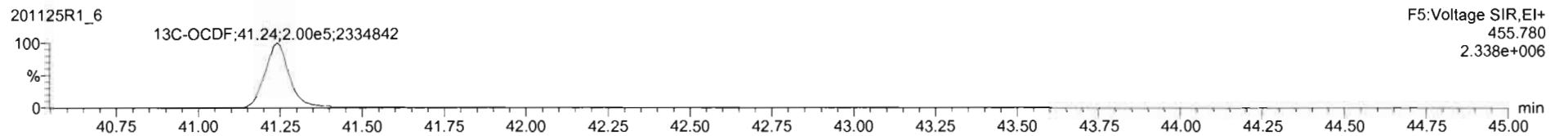
Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank

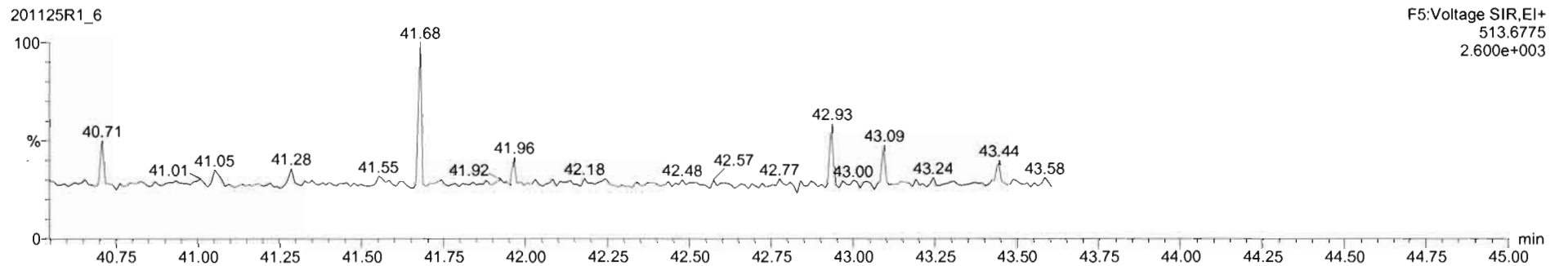
OCDF



¹³C-OCDF



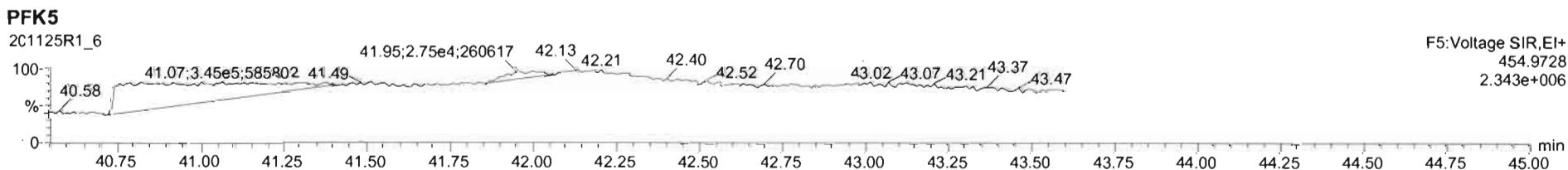
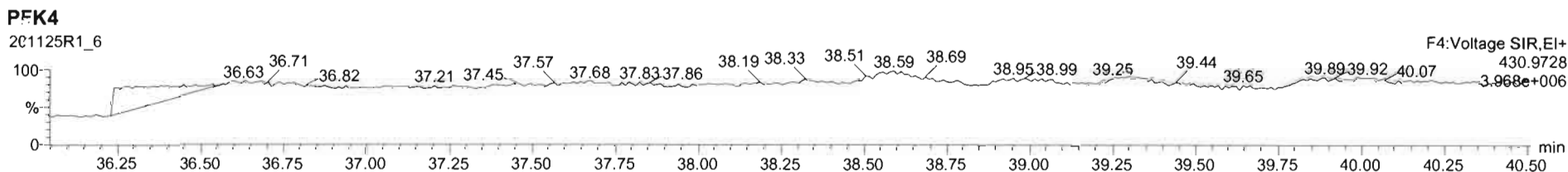
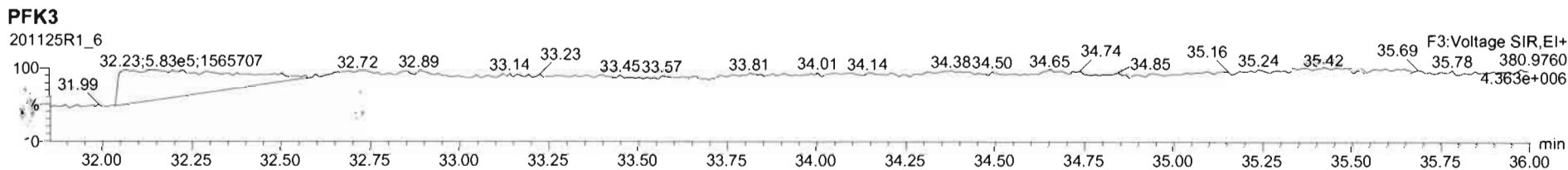
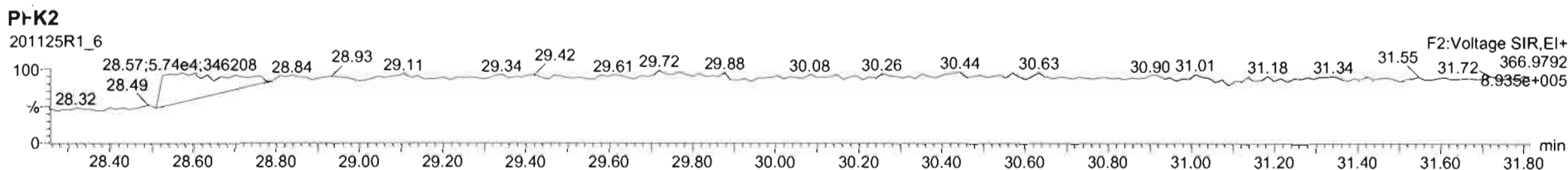
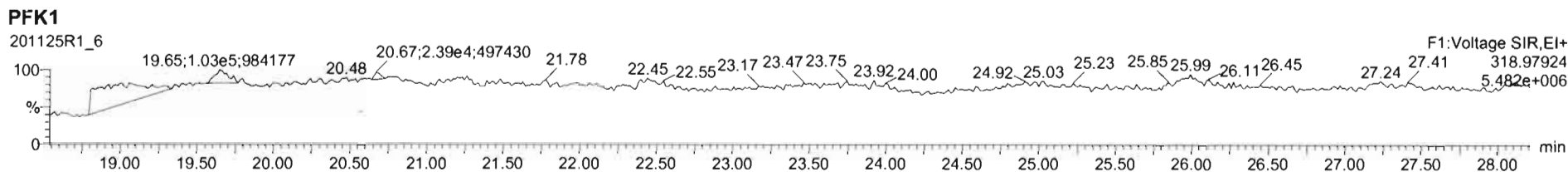
DPE5



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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Name: 201125R1_6, Date: 25-Nov-2020, Time: 13:08:34, ID: B0K0172-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\201125R1\201125R1-4.qld

Last Altered: Thursday, November 26, 2020 09:30:35 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:31:14 Pacific Standard Time

GRB 11/26/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

CT 12/04/2020

Name: 201125R1_4, Date: 25-Nov-2020, Time: 11:38:02, ID: B0K0172-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	4.59e4	0.78	NO	0.950	10.000	26.097	26.08	1.001	1.001	26.152		0.141	26.2
2	2 1,2,3,7,8-PeCDD	1.39e5	0.64	NO	0.885	10.000	30.800	30.81	1.000	1.001	135.79		0.511	136
3	3 1,2,3,4,7,8-HxCDD	1.32e5	1.28	NO	1.02	10.000	34.121	34.13	1.000	1.001	115.56		0.546	116
4	4 1,2,3,6,7,8-HxCDD	1.39e5	1.28	NO	0.915	10.000	34.239	34.25	1.000	1.001	114.08		0.552	114
5	5 1,2,3,7,8,9-HxCDD	1.34e5	1.23	NO	0.934	10.000	34.515	34.52	1.000	1.000	116.85		0.599	117
6	6 1,2,3,4,6,7,8-HpCDD	1.00e5	1.02	NO	0.870	10.000	38.006	38.02	1.000	1.000	109.22		0.721	109
7	7 OCDD	1.55e5	0.88	NO	0.872	10.000	40.963	40.99	1.000	1.001	226.21		0.764	226
8	8 2,3,7,8-TCDF	5.39e4	0.73	NO	0.824	10.000	25.381	25.39	1.000	1.001	20.667		0.0860	20.7
9	9 1,2,3,7,8-PeCDF	2.62e5	1.64	NO	0.963	10.000	29.540	29.55	1.000	1.001	119.16		0.463	119
10	10 2,3,4,7,8-PeCDF	2.72e5	1.64	NO	1.07	10.000	30.602	30.62	1.000	1.001	115.92		0.422	116
11	11 1,2,3,4,7,8-HxCDF	1.63e5	1.21	NO	0.953	10.000	33.206	33.23	1.000	1.001	97.855		0.366	97.9
12	12 1,2,3,6,7,8-HxCDF	1.79e5	1.20	NO	1.01	10.000	33.334	33.35	1.000	1.001	97.150		0.356	97.1
13	13 2,3,4,6,7,8-HxCDF	1.58e5	1.21	NO	0.991	10.000	34.008	34.03	1.000	1.001	99.575		0.422	99.6
14	14 1,2,3,7,8,9-HxCDF	1.27e5	1.20	NO	0.951	10.000	34.995	35.02	1.000	1.001	96.819		0.638	96.8
15	15 1,2,3,4,6,7,8-HpCDF	1.27e5	0.99	NO	0.999	10.000	36.583	36.59	1.000	1.000	99.163		0.521	99.2
16	16 1,2,3,4,7,8,9-HpCDF	9.83e4	0.95	NO	1.12	10.000	38.634	38.65	1.000	1.000	96.186		0.562	96.2
17	17 OCDF	1.75e5	0.86	NO	0.868	10.000	41.259	41.27	1.000	1.001	199.56		0.640	200
18	18 13C-2,3,7,8-TCDD	3.69e5	0.80	NO	1.11	10.000	26.058	26.07	1.030	1.030	186.93	93.5	0.467	
19	19 13C-1,2,3,7,8-PeCDD	2.31e5	0.65	NO	0.859	10.000	30.774	30.79	1.216	1.217	150.86	75.4	0.484	
20	20 13C-1,2,3,4,7,8-HxCDD	2.25e5	1.30	NO	0.700	10.000	34.111	34.11	1.014	1.014	156.83	78.4	0.807	
21	21 13C-1,2,3,6,7,8-HxCDD	2.67e5	1.30	NO	0.833	10.000	34.249	34.23	1.018	1.017	156.33	78.2	0.678	
22	22 13C-1,2,3,7,8,9-HxCDD	2.46e5	1.29	NO	0.762	10.000	34.491	34.51	1.025	1.026	157.81	78.9	0.741	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.10e5	1.09	NO	0.650	10.000	37.973	38.01	1.129	1.130	158.23	79.1	0.907	
24	24 13C-OCDD	3.15e5	0.91	NO	0.539	10.000	40.937	40.96	1.217	1.218	285.21	71.3	1.15	
25	25 13C-2,3,7,8-TCDF	6.33e5	0.80	NO	0.981	10.000	25.380	25.37	1.003	1.003	173.88	86.9	0.532	
26	26 13C-1,2,3,7,8-PeCDF	4.56e5	1.69	NO	0.792	10.000	29.506	29.53	1.166	1.167	155.28	77.6	0.736	
27	27 13C-2,3,4,7,8-PeCDF	4.40e5	1.64	NO	0.778	10.000	30.564	30.60	1.208	1.210	152.43	76.2	0.750	
28	28 13C-1,2,3,4,7,8-HxCDF	3.50e5	0.50	NO	0.954	10.000	33.202	33.21	0.987	0.987	179.25	89.6	0.928	
29	29 13C-1,2,3,6,7,8-HxCDF	3.65e5	0.50	NO	1.01	10.000	33.333	33.33	0.991	0.991	177.05	88.5	0.880	
30	30 13C-2,3,4,6,7,8-HxCDF	3.20e5	0.51	NO	0.921	10.000	34.003	34.01	1.011	1.011	169.51	84.8	0.961	
31	31 13C-1,2,3,7,8,9-HxCDF	2.75e5	0.50	NO	0.803	10.000	34.999	34.99	1.040	1.040	167.33	83.7	1.10	

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-4.qld

Last Altered: Thursday, November 26, 2020 09:30:35 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:31:14 Pacific Standard Time

Name: 201125R1_4, Date: 25-Nov-2020, Time: 11:38:02, ID: B0K0172-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	2.57e5	0.41	NO	0.735	10.000	36.567	36.58	1.087	1.087	170.55	85.3	0.765	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.82e5	0.41	NO	0.568	10.000	38.602	38.63	1.147	1.148	156.53	78.3	0.991	
34	34 13C-OCDF	4.03e5	0.89	NO	0.629	10.000	41.219	41.25	1.225	1.226	313.03	78.3	0.612	
35	35 37Cl-2,3,7,8-TCDD	1.79e5			1.09	10.000	26.058	26.08	1.030	1.031	92.290	115	0.155	
36	36 13C-1,2,3,4-TCDD	3.56e5	0.83	NO	1.00	10.000	25.370	25.30	1.000	1.000	200.00	100	0.518	
37	37 13C-1,2,3,4-TCDF	7.42e5	0.80	NO	1.00	10.000	23.870	23.79	1.000	1.000	200.00	100	0.522	
38	38 13C-1,2,3,4,6,9-HxCDF	4.10e5	0.49	NO	1.00	10.000	33.710	33.64	1.000	1.000	200.00	100	0.885	

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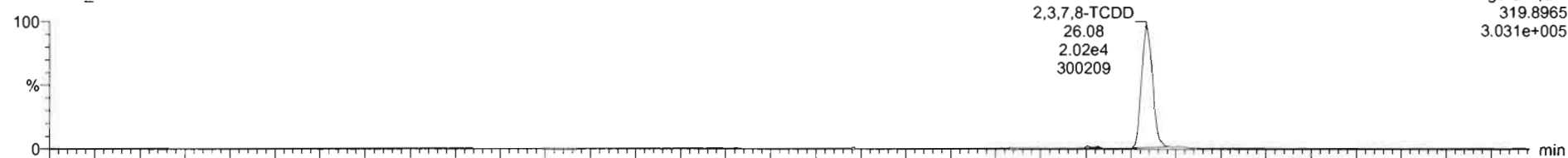
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Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

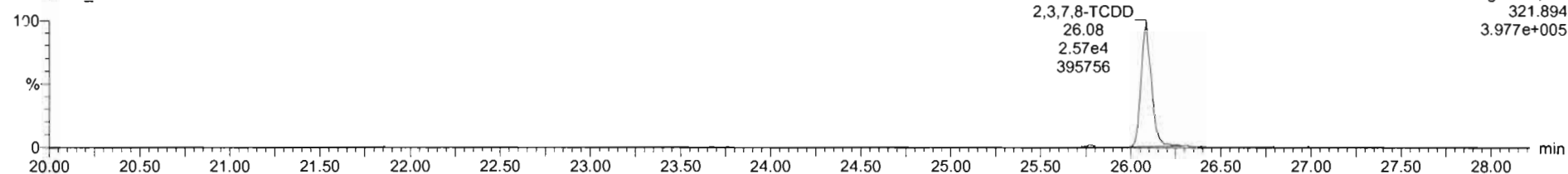
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2,3,7,8-TCDD

201125R1_4

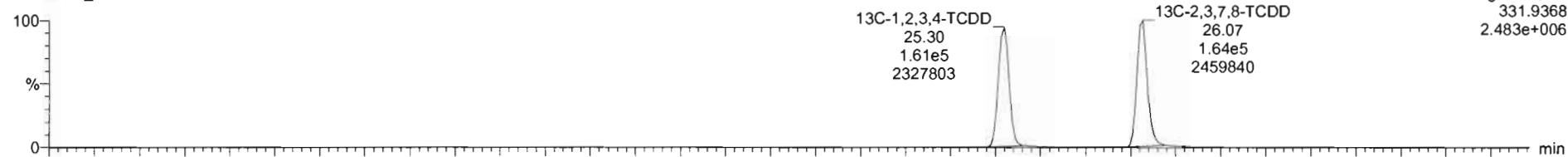


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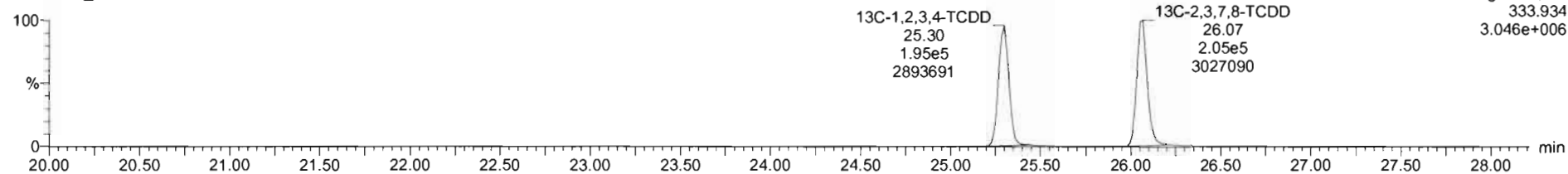


¹³C-2,3,7,8-TCDD

201125R1_4



201125R1_4



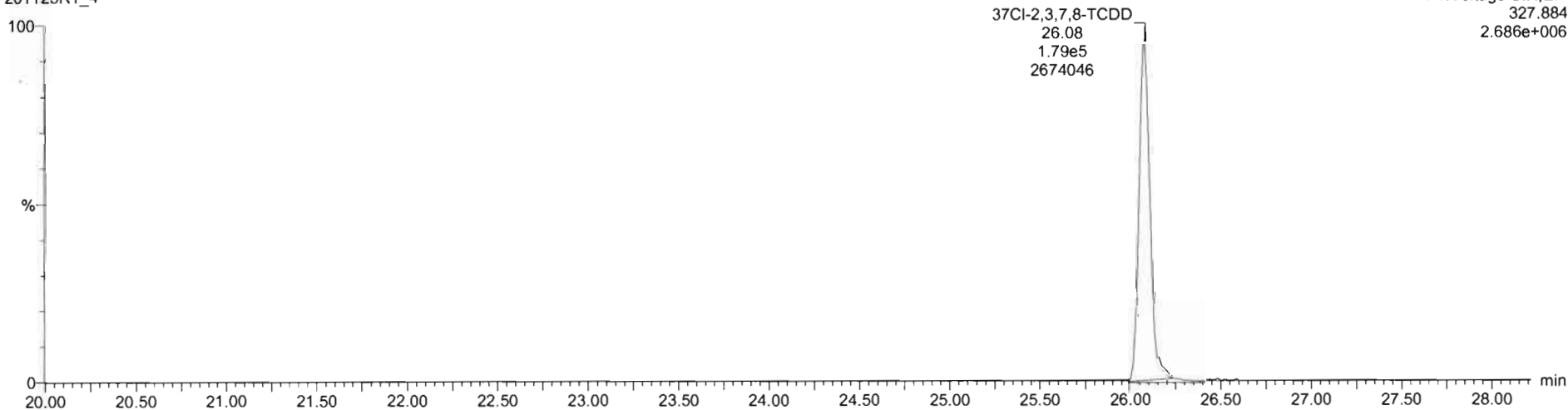
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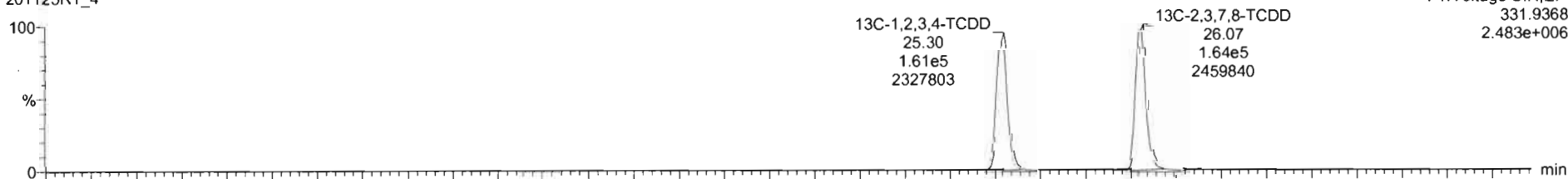
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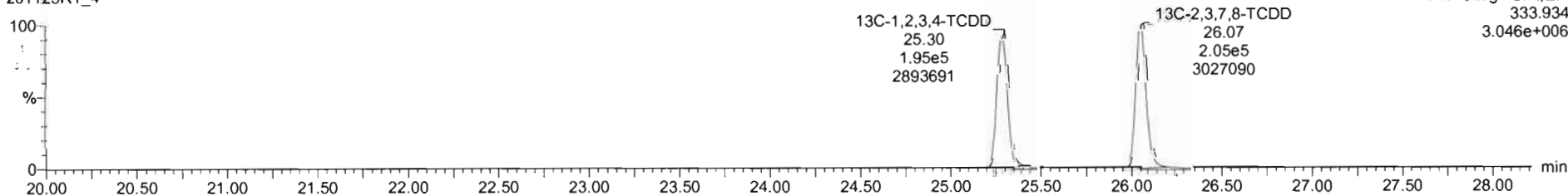


13C-1,2,3,4-TCDD

201125R1_4



201125R1_4



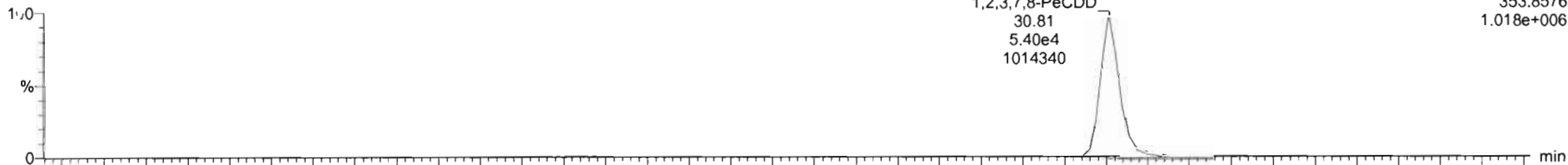
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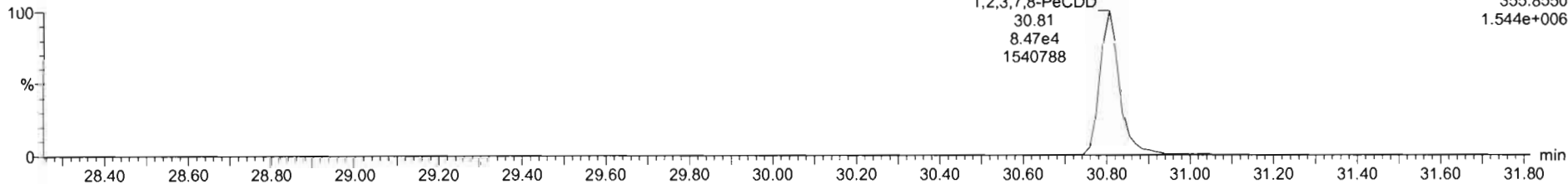
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1,2,3,7,8-PeCDD

201125R1_4

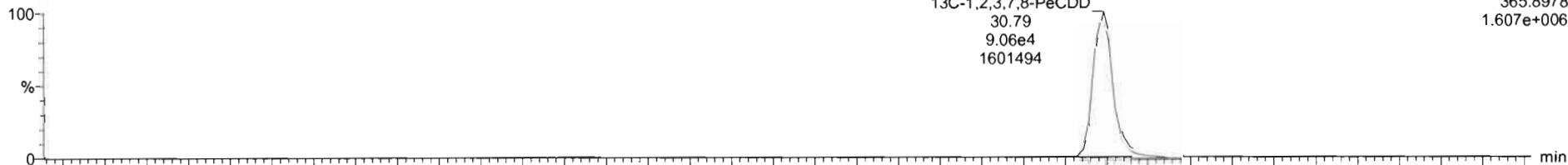


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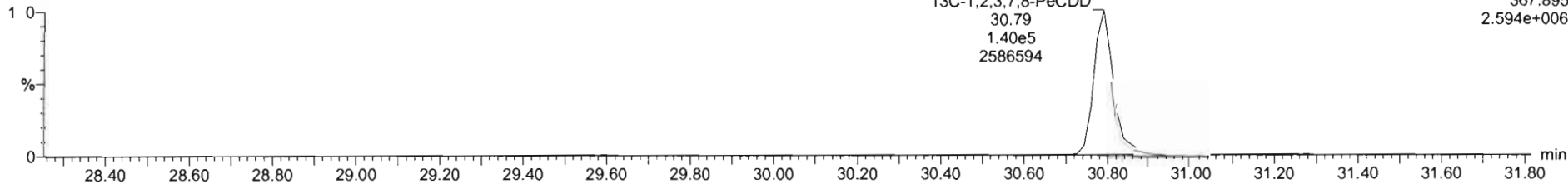


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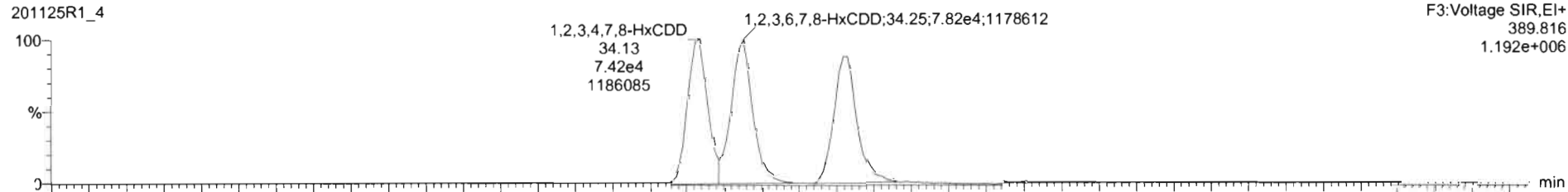
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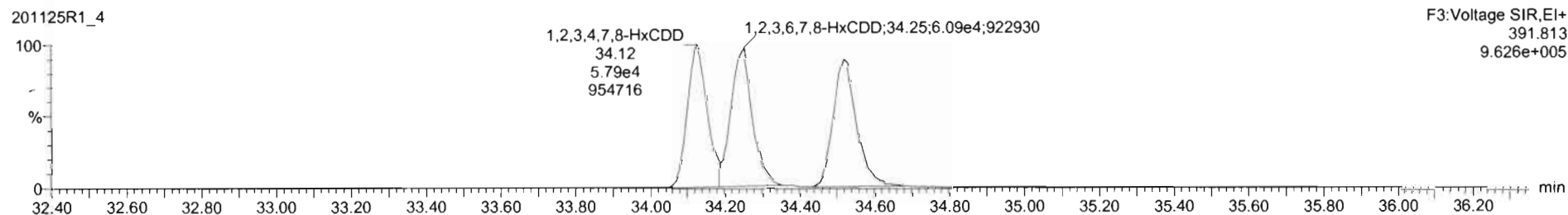
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1,2,3,4,7,8-HxCDD

201125R1_4

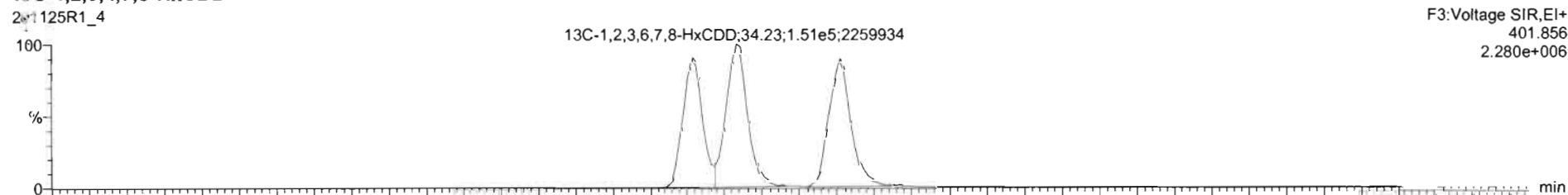


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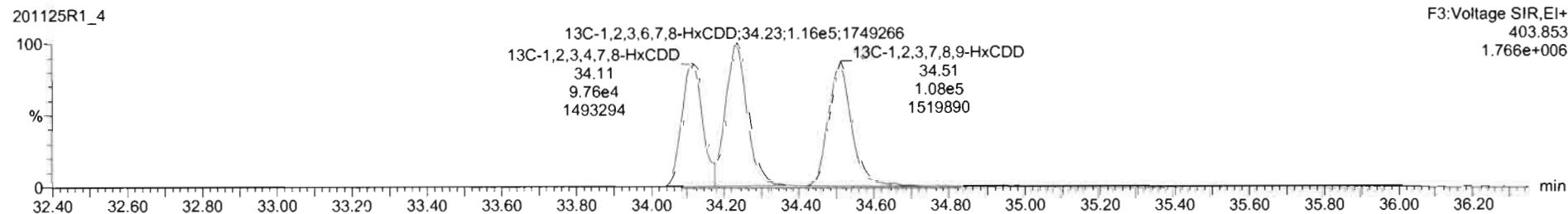


13C-1,2,3,4,7,8-HxCDD

201125R1_4



201125R1_4



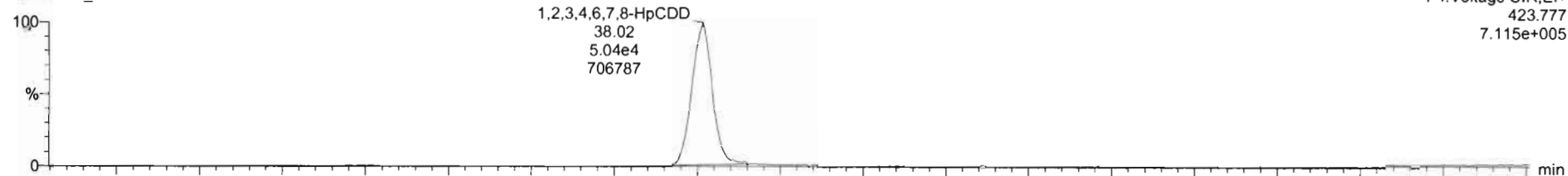
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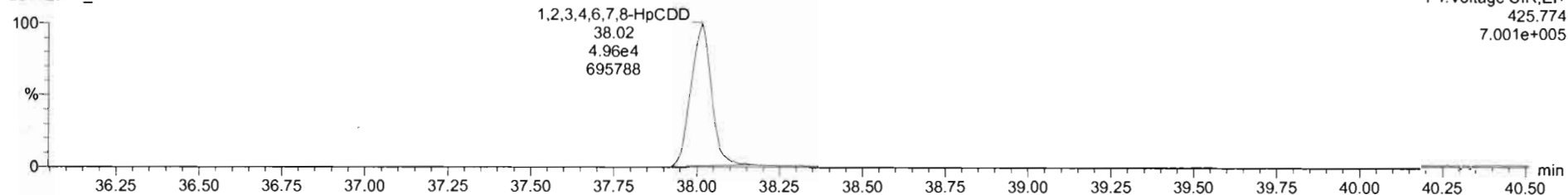
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1,2,3,4,6,7,8-HpCDD

201125R1_4

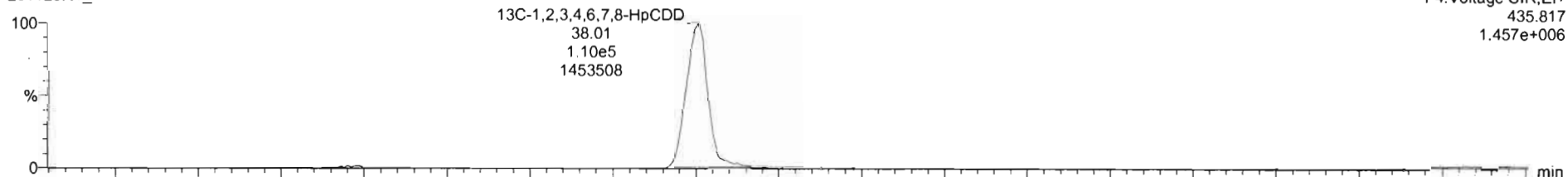


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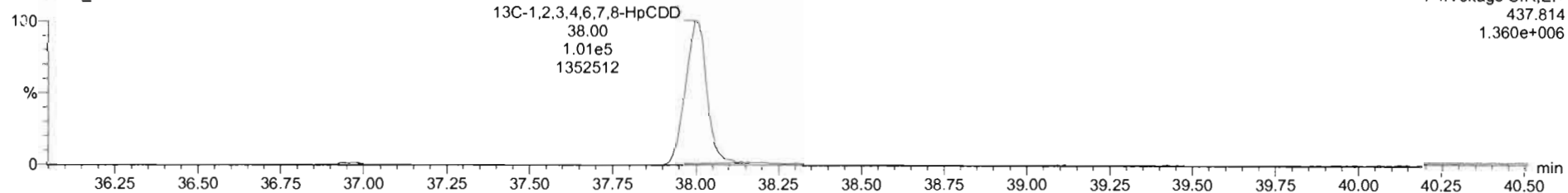


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201125R1_4



201125R1_4



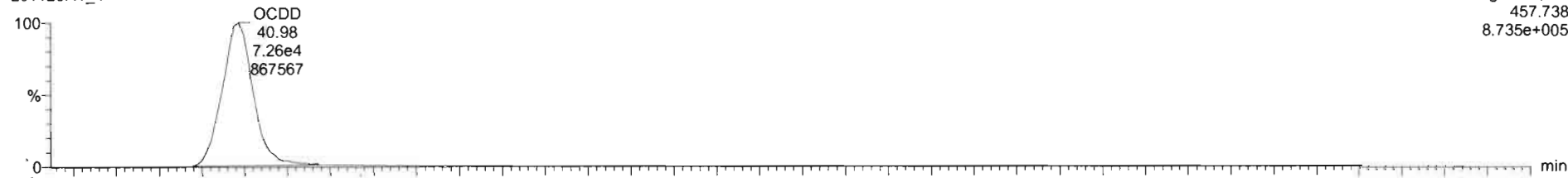
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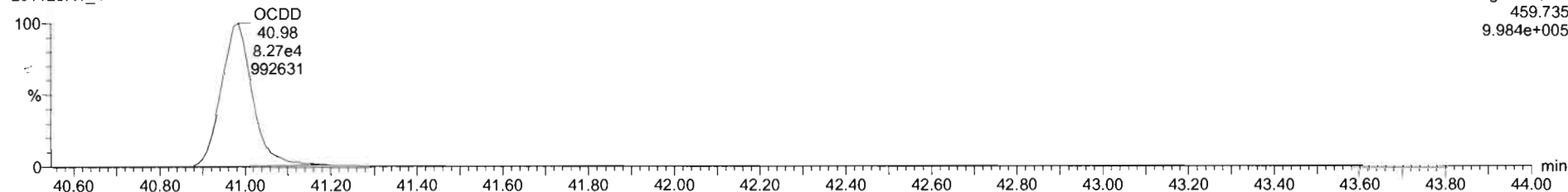
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OCDD

201125R1_4

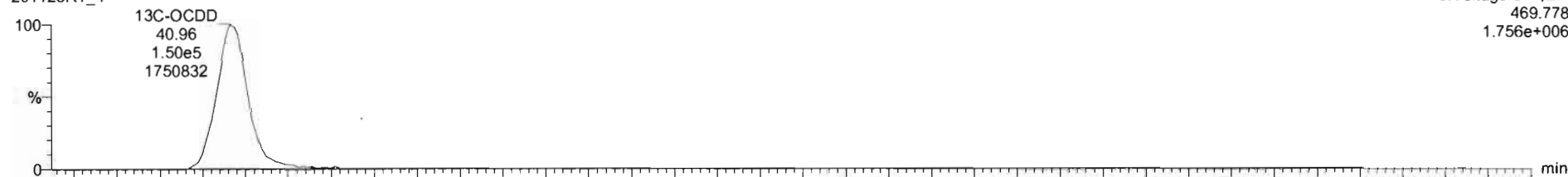


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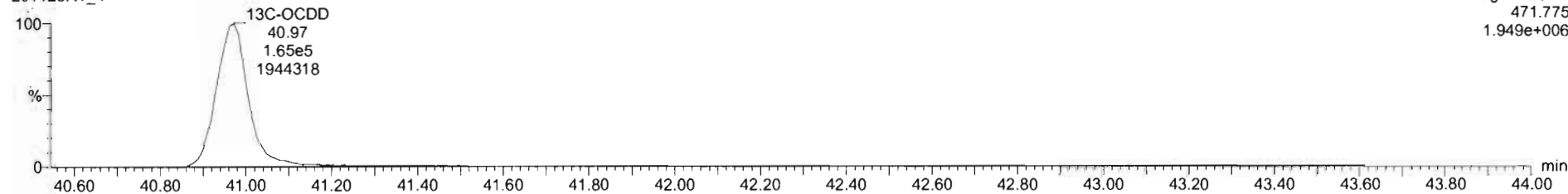


13C-OCDD

201125R1_4



201125R1_4



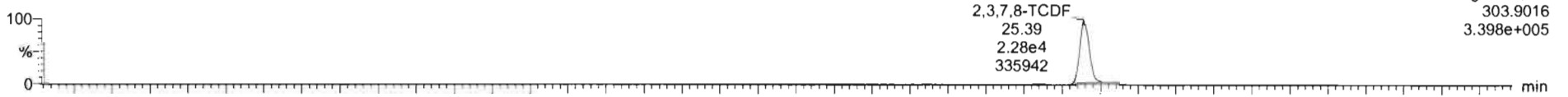
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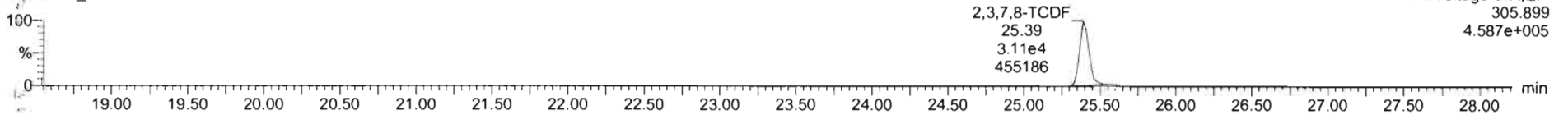
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2,3,7,8-TCDF

201125R1_4

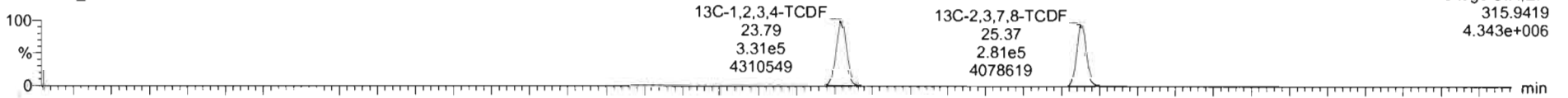


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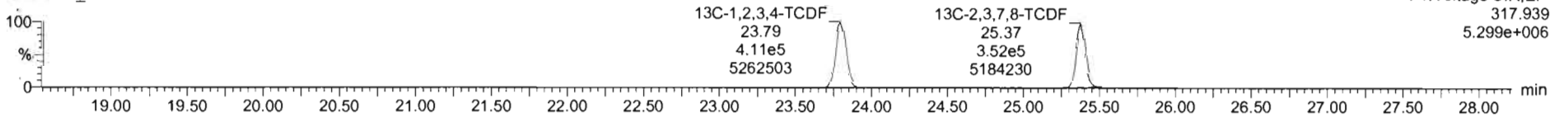


13C-2,3,7,8-TCDF

201125R1_4

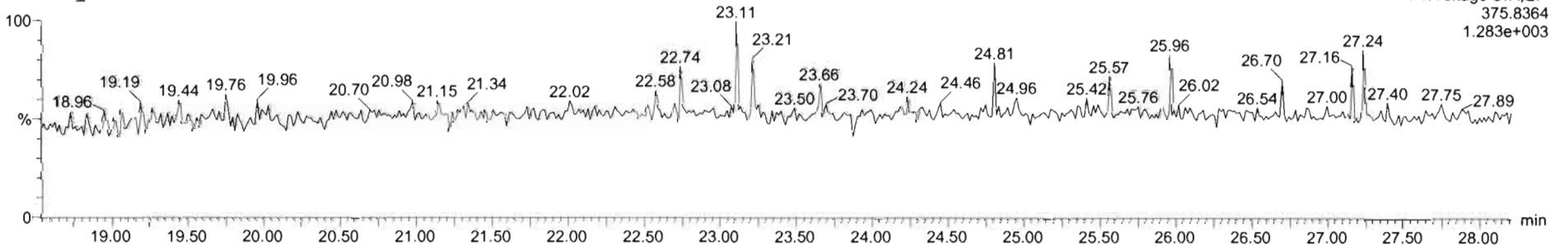


201125R1_4



DPE1

201125R1_4



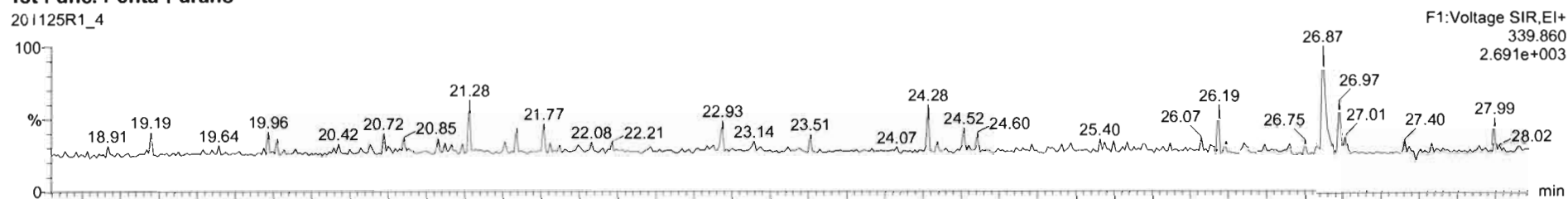
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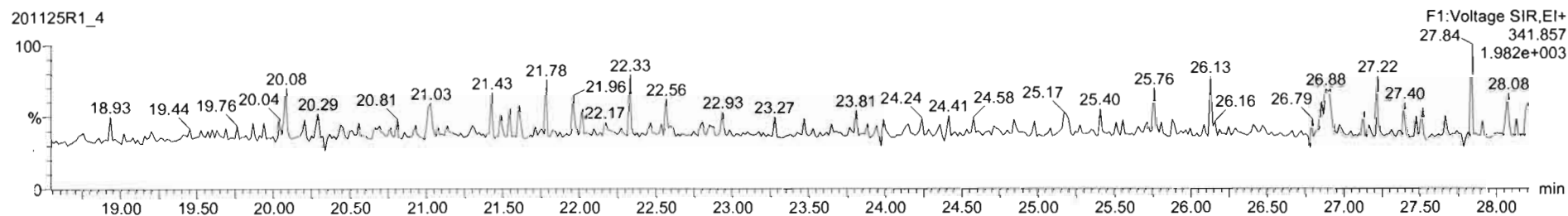
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201125R1_4

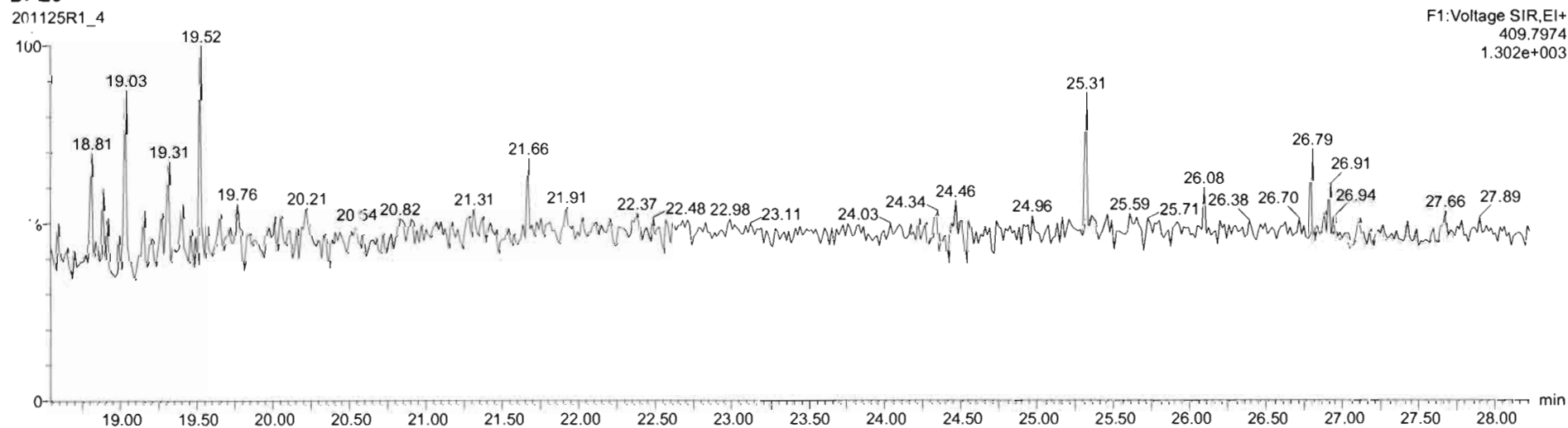


201125R1_4



DPE6

201125R1_4



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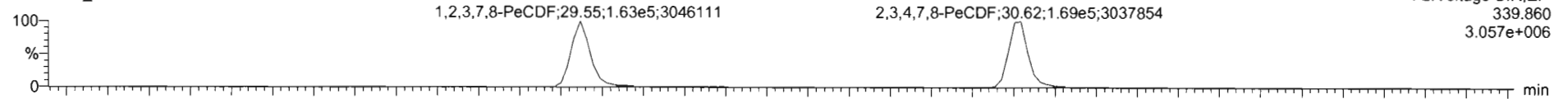
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

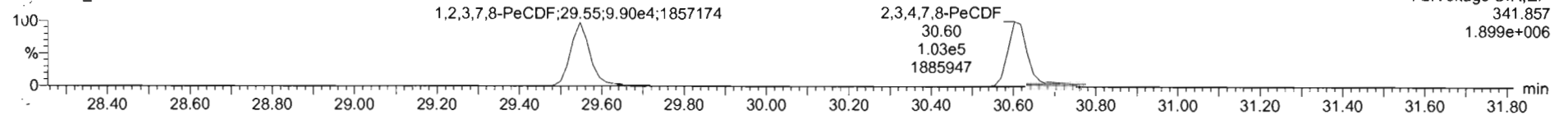
Name: 201125R1_4, Date: 25-Nov-2020, Time: 11:38:02, ID: B0K0172-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDF

201125R1_4

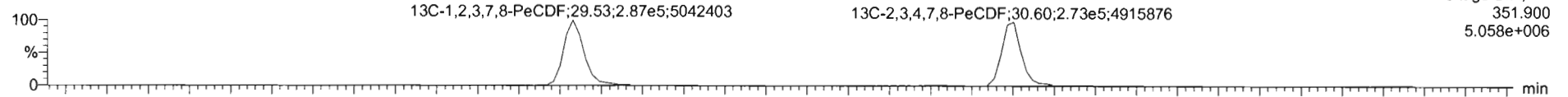


201125R1_4

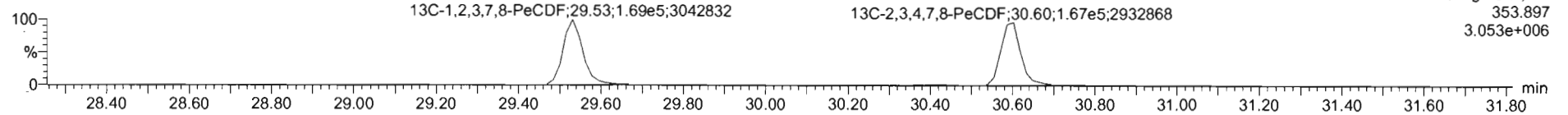


13C-1,2,3,7,8-PeCDF

201125R1_4

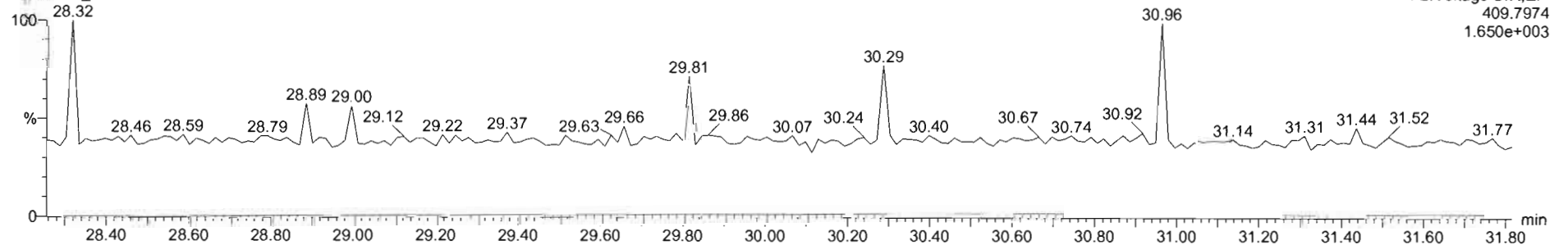


201125R1_4



DPE2

201125R1_4



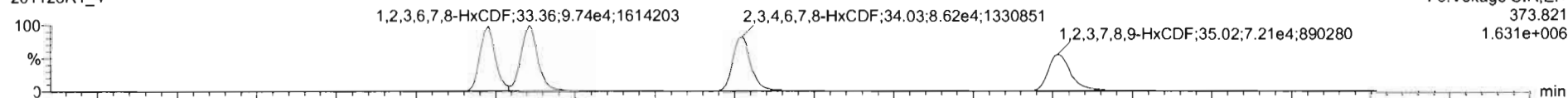
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

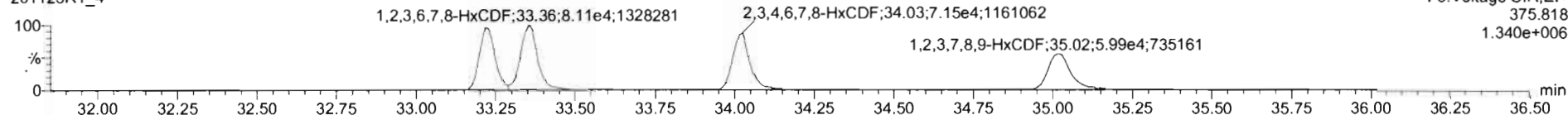
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1,2,3,4,7,8-HxCDF

201125R1_4

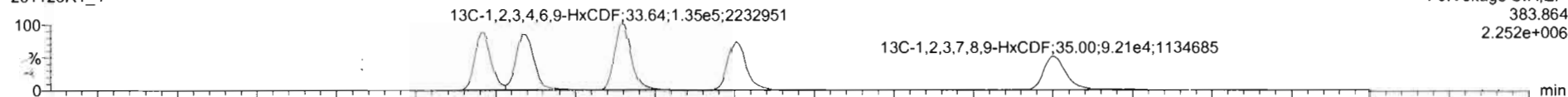


201125R1_4

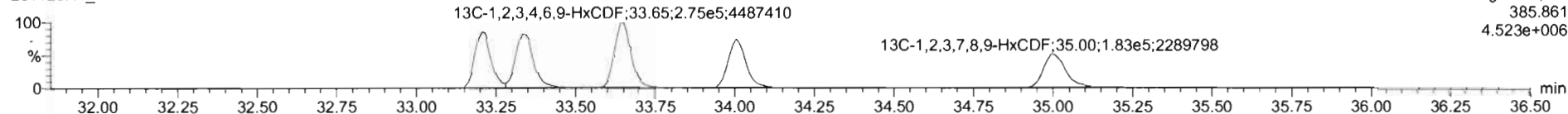


13C-1,2,3,4,7,8-HxCDF

201125R1_4

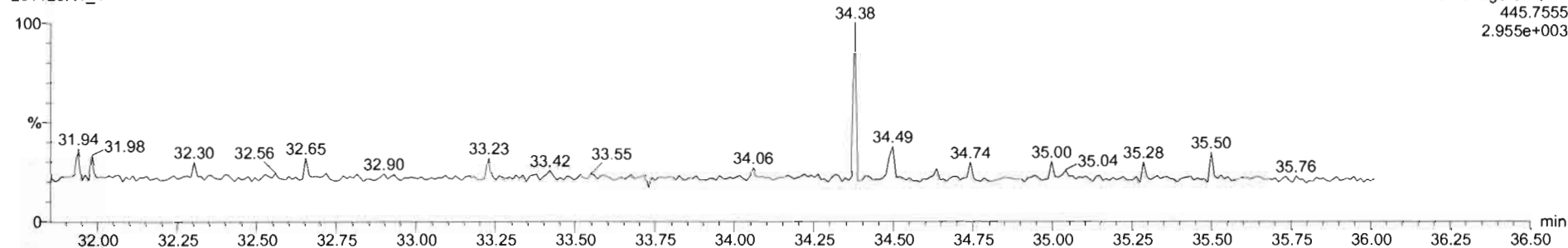


201125R1_4



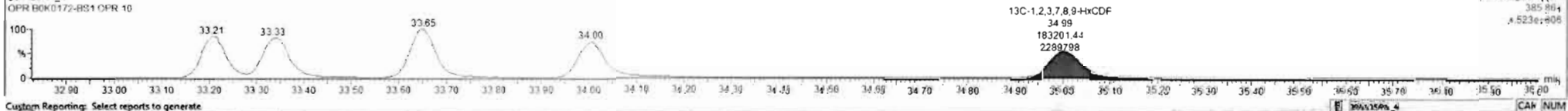
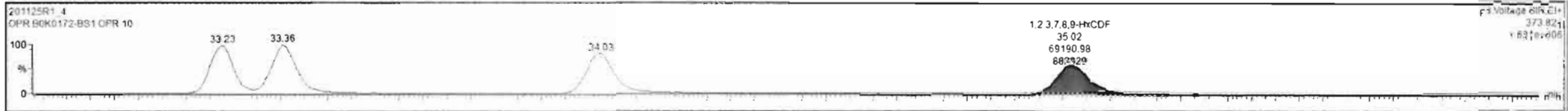
DPE3

201125R1_4



201125R1_4 - B0K0172-BS1 OPR 10 - OPR

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPD
1 2,3,7,8-TCDD	4.59e4	0.78	NO	0.9591	10.000	28.08	1.001	28.2		0.141	28.2
2 1,2,3,7,8-PeCDD	1.39e5	0.64	NO	0.8655	10.000	30.81	1.001	135		0.511	135
3 1,2,3,4,7,8-HxCDD	1.32e5	1.28	NO	1.0176	10.000	34.13	1.001	116		0.546	116
4 1,2,3,6,7,8-HxCDD	1.39e5	1.26	NO	0.9145	10.000	34.25	1.001	114		0.562	114
5 1,2,3,7,8,9-HxCDD	1.34e5	1.23	NO	0.9345	10.000	34.52	1.000	117		0.589	117
6 1,2,3,4,6,7,8-HpCDD	1.00e5	1.02	NO	0.8697	10.000	38.02	1.000	109		0.721	109
7 OCDD	1.55e5	0.88	NO	0.8717	10.000	40.99	1.001	228		0.784	228
8 2,3,7,8-TCDF	5.39e4	0.73	NO	0.8243	10.000	25.39	1.001	20.7		0.0009	20.7
9 1,2,3,7,8-PeCDF	2.62e5	1.84	NO	0.9626	10.000	29.55	1.001	119		0.481	119
10 2,3,4,7,8-PeCDF	2.72e5	1.84	NO	1.0684	10.000	30.62	1.001	116		0.422	116
11 1,2,3,4,7,8-HxCDF	1.63e5	1.21	NO	0.9535	10.000	33.23	1.001	97.9		0.399	97.9
12 1,2,3,6,7,8-HxCDF	1.79e5	1.20	NO	1.0080	10.000	33.35	1.001	97.1		0.356	97.1
13 2,3,4,6,7,8-HxCDF	1.58e5	1.21	NO	0.9907	10.000	34.03	1.001	99.0		0.422	99.0
14 1,2,3,7,8,9-HxCDF	1.27e5	1.20	NO	0.9506	10.000	35.02	1.001	96.8		0.636	96.8
15 1,2,3,4,6,7,8-HpCDF	1.27e5	0.99	NO	0.9886	10.000	36.59	1.000	99.2		0.521	99.2
16 1,2,3,4,7,8,9-HpCDF	9.83e4	0.95	NO	1.1238	10.000	38.65	1.000	98.2		0.582	98.2
17 OCDF	1.75e5	0.86	NO	0.8682	10.000	41.27	1.001	200		0.640	200
18 13C-2,3,7,8-TCDD	3.69e5	0.80	NO	1.1099	10.000	26.07	1.030	187	93.6	0.487	
19 13C-1,2,3,7,8-PeCDD	2.31e5	0.85	NO	0.8585	10.000	30.79	1.217	151	75.4	0.484	
20 13C-1,2,3,4,7,8-HxCDD	2.25e5	1.30	NO	0.8997	10.000	34.11	1.014	157	78.4	0.807	
21 13C-1,2,3,6,7,8-HxCDD	2.67e5	1.30	NO	0.8327	10.000	34.23	1.017	156	78.2	0.873	

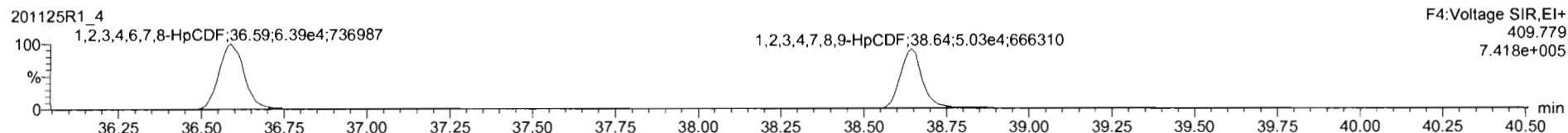
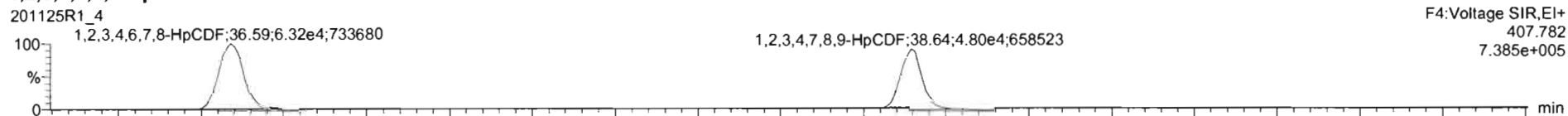


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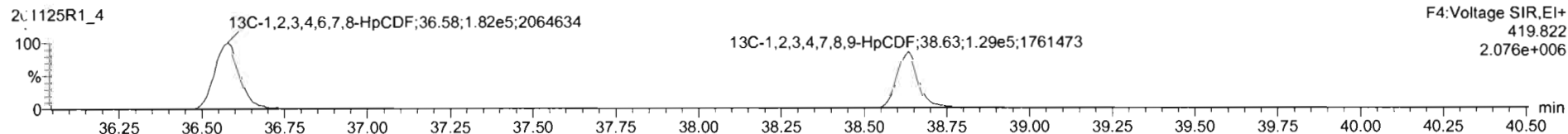
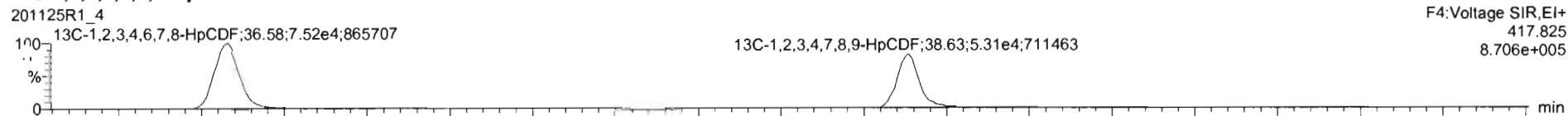
Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

Name: 201125R1_4, Date: 25-Nov-2020, Time: 11:38:02, ID: B0K0172-BS1 OPR 10, Description: OPR

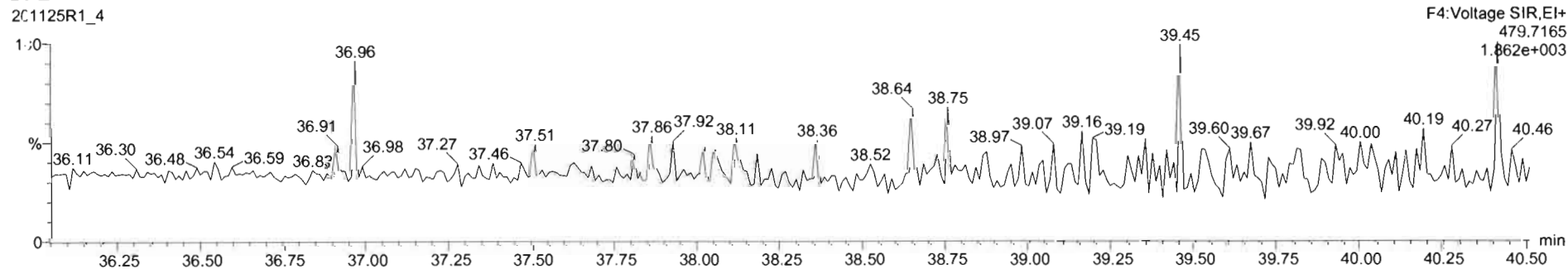
1,2,3,4,6,7,8-HpCDF



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



DPE4



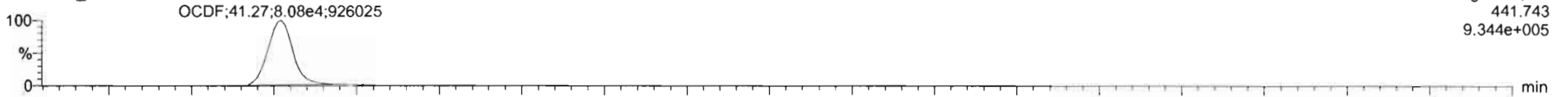
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Last Altered: Thursday, November 26, 2020 07:36:03 Pacific Standard Time
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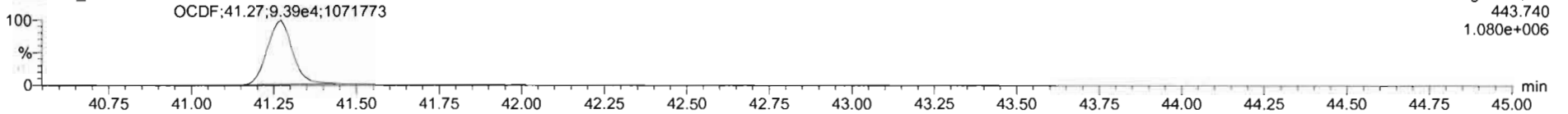
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OCDF

201125R1_4

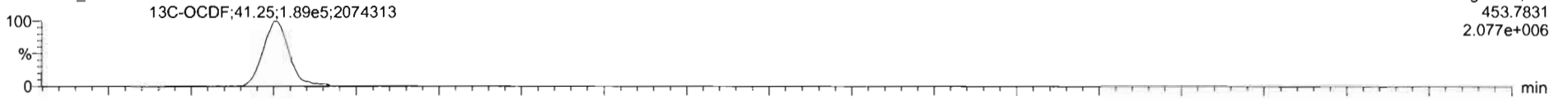


201125R1_4

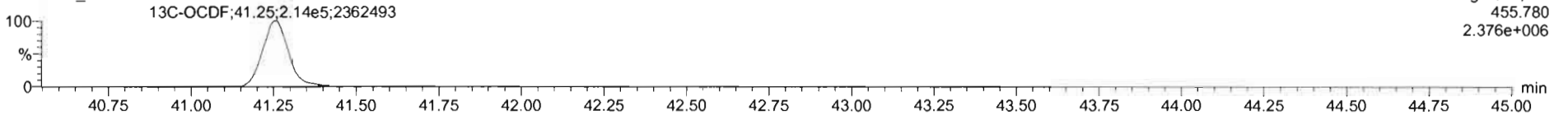


13C-OCDF

201125R1_4

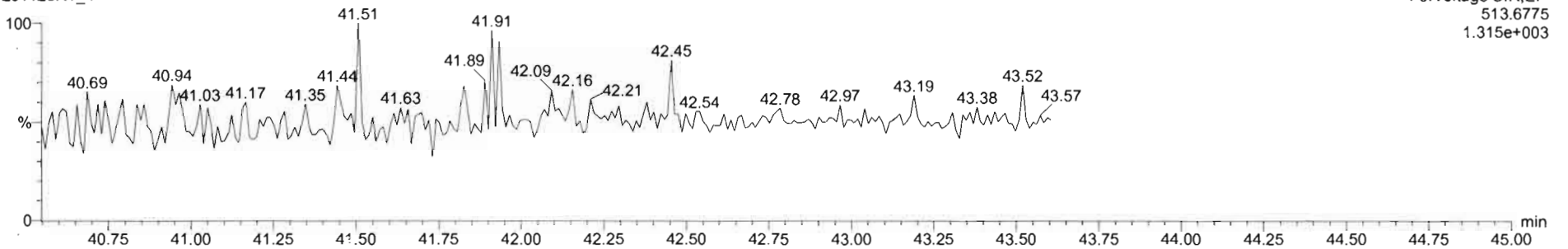


201125R1_4



D₂E5

201125R1_4

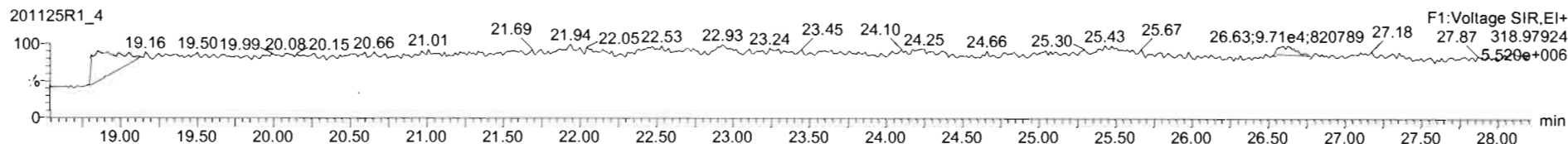


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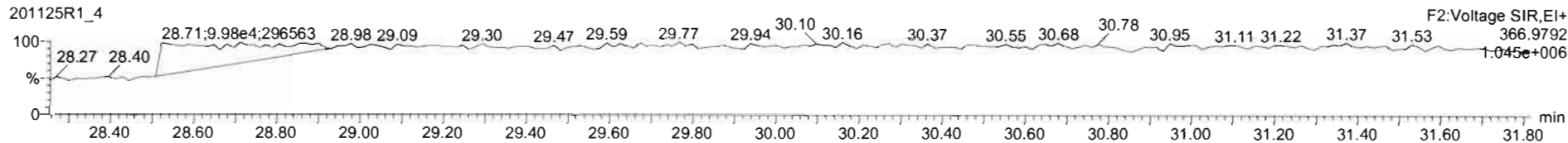
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Printed: Thursday, November 26, 2020 07:36:22 Pacific Standard Time

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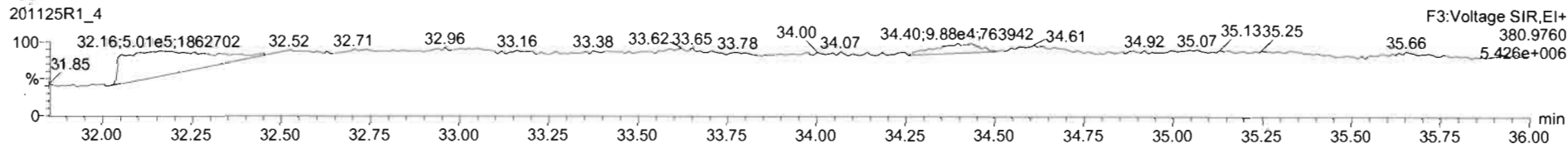
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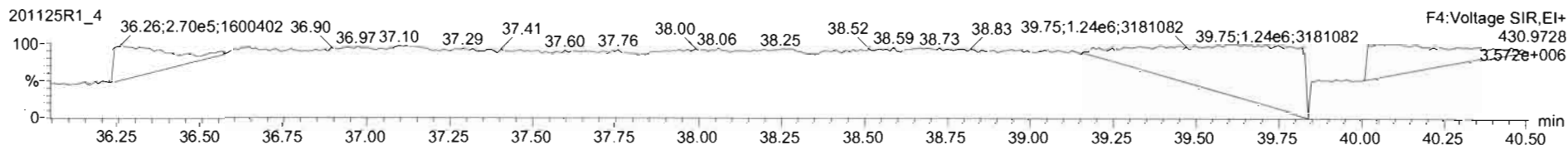
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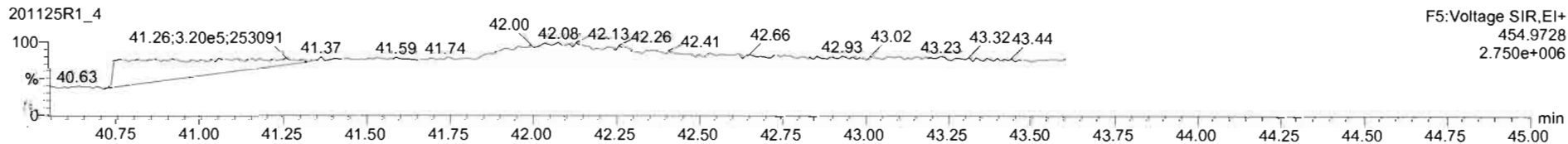
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\201204R3\201204R3_7.qld

Last Altered: Saturday, December 05, 2020 11:36:47 Pacific Standard Time
 Printed: Monday, December 07, 2020 14:15:23 Pacific Standard Time

HN 12/07/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
 Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

CT 12/08/2020

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-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	25.996		1.001				0.0283	
2	2 1,2,3,7,8-PeCDD			NO	0.932	10.000	30.758		1.001				0.0423	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.000	34.063		1.001				0.0773	
4	4 1,2,3,6,7,8-HxCDD			NO	0.902	10.000	34.178		1.001				0.0797	
5	5 1,2,3,7,8,9-HxCDD			NO	0.954	10.000	34.440		1.000				0.0855	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.918	10.000	37.935		1.000				0.0742	
7	7 OCDD			NO	0.866	10.000	40.850		1.000				0.168	
8	8 2,3,7,8-TCDF			NO	0.848	10.000	25.272		1.000				0.0153	
9	9 1,2,3,7,8-PeCDF			NO	0.960	10.000	29.464		1.000				0.0425	
10	10 2,3,4,7,8-PeCDF			NO	1.07	10.000	30.553		1.001				0.0365	
11	11 1,2,3,4,7,8-HxCDF			NO	0.986	10.000	33.152		1.000				0.0462	
12	12 1,2,3,6,7,8-HxCDF			NO	1.04	10.000	33.288		1.001				0.0454	
13	13 2,3,4,6,7,8-HxCDF			NO	1.02	10.000	33.948		1.001				0.0540	
14	14 1,2,3,7,8,9-HxCDF			NO	0.991	10.000	34.932		1.000				0.0770	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000	36.505		1.000				0.0588	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.18	10.000	38.562		1.000				0.0653	
17	17 OCDF			NO	0.896	10.000	41.143		1.000				0.0962	
18	18 13C-2,3,7,8-TCDD	1.10e6	0.77	NO	1.06	10.000	25.957	25.97	1.030	1.031	196.73	98.4	0.204	
19	19 13C-1,2,3,7,8-PeCDD	8.01e5	0.63	NO	0.785	10.000	30.724	30.73	1.219	1.219	193.14	96.6	0.216	
20	20 13C-1,2,3,4,7,8-HxCDD	6.12e5	1.29	NO	0.621	10.000	34.028	34.04	1.014	1.014	196.64	98.3	0.469	
21	21 13C-1,2,3,6,7,8-HxCDD	7.14e5	1.25	NO	0.734	10.000	34.149	34.16	1.017	1.018	193.96	97.0	0.397	
22	22 13C-1,2,3,7,8,9-HxCDD	6.69e5	1.28	NO	0.723	10.000	34.431	34.43	1.026	1.026	184.72	92.4	0.403	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.51e5	1.07	NO	0.568	10.000	37.899	37.92	1.129	1.130	193.79	96.9	0.682	
24	24 13C-OCDD	7.58e5	0.86	NO	0.496	10.000	40.810	40.84	1.216	1.217	305.15	76.3	0.540	
25	25 13C-2,3,7,8-TCDF	1.47e6	0.77	NO	0.919	10.000	25.266	25.27	1.003	1.003	197.33	98.7	0.221	
26	26 13C-1,2,3,7,8-PeCDF	1.17e6	1.56	NO	0.715	10.000	29.454	29.46	1.169	1.169	201.90	101	0.517	
27	27 13C-2,3,4,7,8-PeCDF	1.18e6	1.56	NO	0.689	10.000	30.525	30.53	1.212	1.212	210.79	105	0.537	
28	28 13C-1,2,3,4,7,8-HxCDF	8.33e5	0.51	NO	0.873	10.000	33.142	33.14	0.987	0.987	190.22	95.1	0.595	
29	29 13C-1,2,3,6,7,8-HxCDF	8.65e5	0.51	NO	0.933	10.000	33.269	33.27	0.991	0.991	184.94	92.5	0.556	
30	30 13C-2,3,4,6,7,8-HxCDF	8.08e5	0.52	NO	0.843	10.000	33.931	33.93	1.011	1.011	191.11	95.6	0.616	

Dataset: U:\VG12.PRO\Results\201204R3\201204R3_7.qld

Last Altered: Saturday, December 05, 2020 11:36:47 Pacific Standard Time

Printed: Monday, December 07, 2020 14:15:23 Pacific Standard Time

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-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
31	31 13C-1,2,3,7,8,9-HxCDF	7.36e5	0.52	NO	0.780	10.000	34.921	34.92	1.040	1.040	188.21	94.1	0.666	
32	32 13C-1,2,3,4,6,7,8-HpCDF	6.46e5	0.43	NO	0.726	10.000	36.482	36.49	1.087	1.087	177.47	88.7	0.597	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.57e5	0.43	NO	0.491	10.000	38.530	38.55	1.148	1.148	185.56	92.8	0.882	
34	34 13C-OCDF	8.71e5	0.89	NO	0.565	10.000	41.088	41.13	1.224	1.225	307.20	76.8	0.473	
35	35 37Cl-2,3,7,8-TCDD	4.54e5			1.22	10.000	25.984	25.99	1.031	1.032	70.607	88.3	0.0431	
36	36 13C-1,2,3,4-TCDD	1.06e6	0.78	NO	1.00	10.000	25.200	25.20	1.000	1.000	200.00	100	0.215	
37	37 13C-1,2,3,4-TCDF	1.62e6	0.78	NO	1.00	10.000	23.660	23.67	1.000	1.000	200.00	100	0.203	
38	38 13C-1,2,3,4,6,9-HxCDF	1.00e6	0.51	NO	1.00	10.000	33.580	33.57	1.000	1.000	200.00	100	0.519	
39	39 Total Tetra-Dioxins				0.980	10.000	24.620		0.000				0.0194	
40	40 Total Penta-Dioxins				0.932	10.000	29.960		0.000				0.0195	
41	41 Total Hexa-Dioxins				0.902	10.000	33.635		0.000				0.0569	
42	42 Total Hepta-Dioxins				0.918	10.000	37.640		0.000				0.0384	
43	43 Total Tetra-Furans				0.848	10.000	23.610		0.000				0.00693	
44	44 1st Func. Penta-Furans				0.960	10.000	26.930		0.000				0.00609	
45	45 Total Penta-Furans				0.960	10.000	29.275		0.000				0.0223	
46	46 Total Hexa-Furans				1.02	10.000	33.555		0.000				0.0256	
47	47 Total Hepta-Furans				1.05	10.000	37.835		0.000				0.0360	

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Dataset: U:\VG12.PRO\Results\201204R3\201204R3_7.qld

Last Altered: Saturday, December 05, 2020 11:36:47 Pacific Standard Time

Printed: Monday, December 07, 2020 14:15:23 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10

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

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-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\201204R3\201204R3_7.qld

Last Altered: Saturday, December 05, 2020 11:36:47 Pacific Standard Time

Printed: Monday, December 07, 2020 14:15:23 Pacific Standard Time

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-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: Untitled

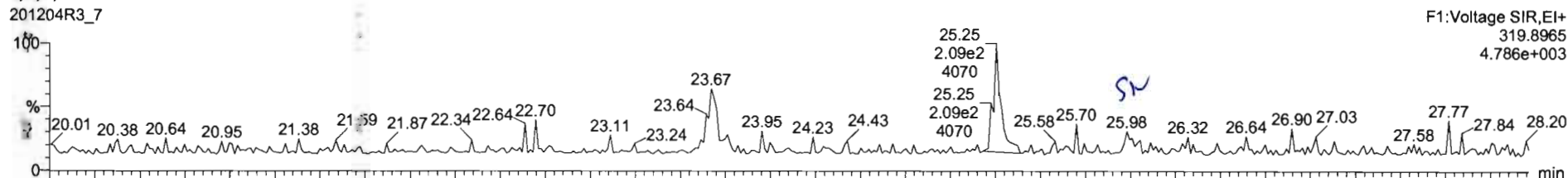
Last Altered: Saturday, December 05, 2020 13:08:15 Pacific Standard Time
Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

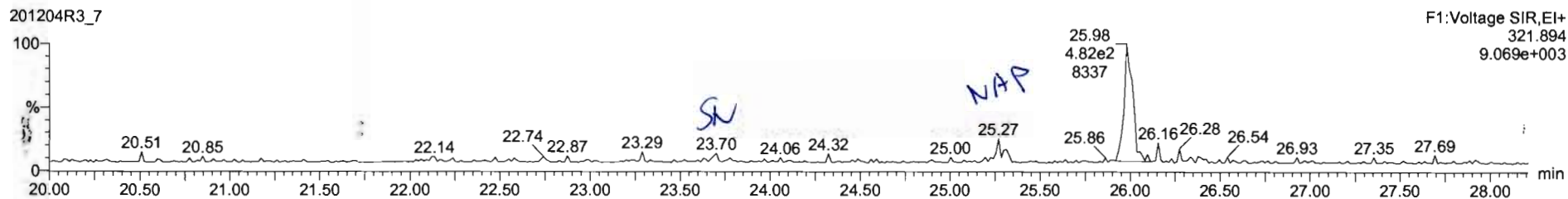
Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD

201204R3_7

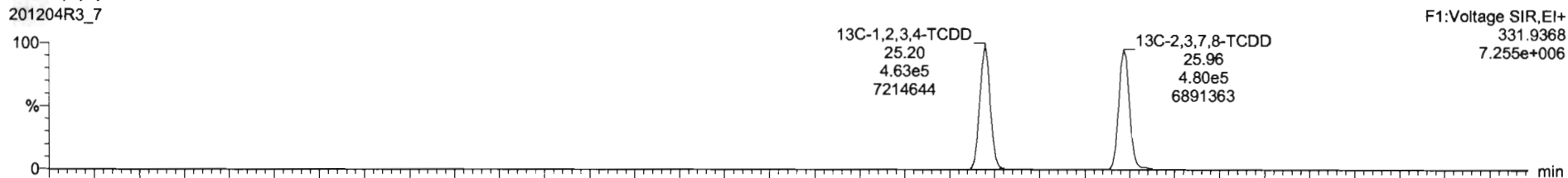


201204R3_7

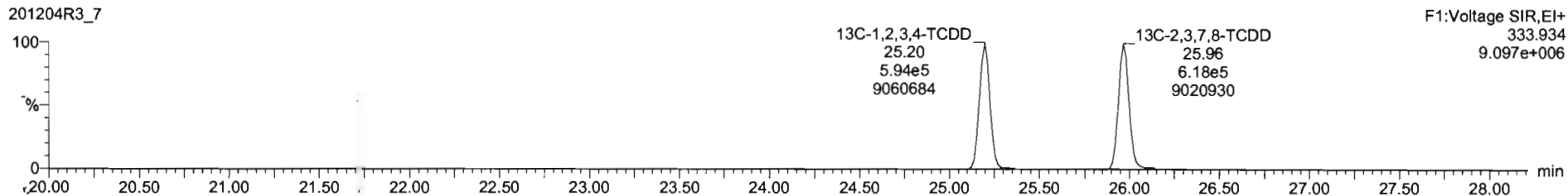


13C-2,3,7,8-TCDD

201204R3_7

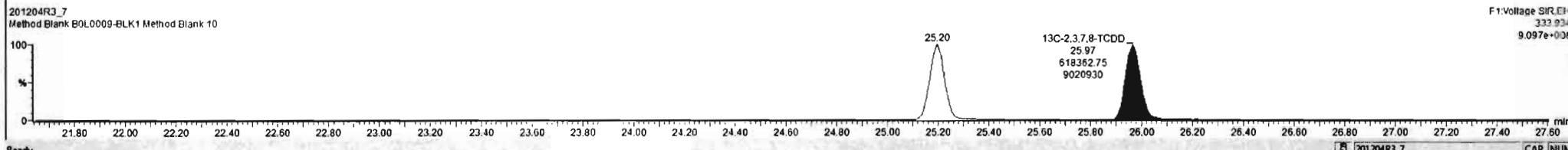
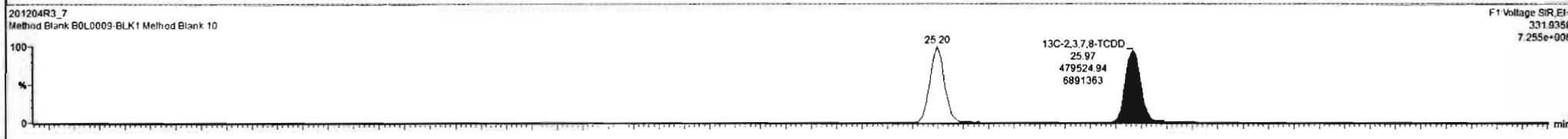
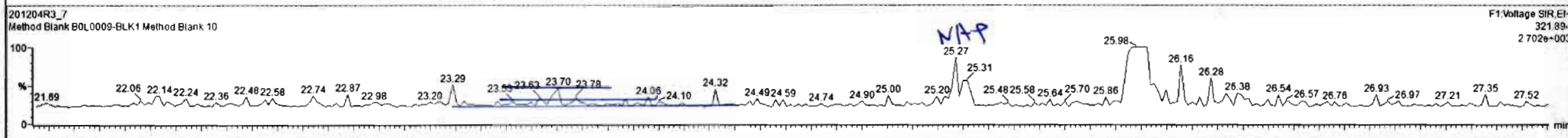
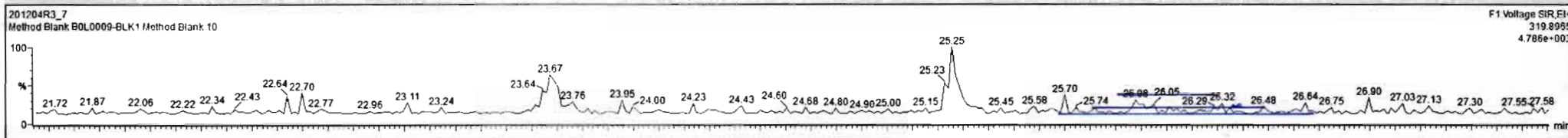


201204R3_7



201204R3_7 - B0L0009-BLK1 Method Blank 10 - Method Blank

SI	Name	Resp	RA	nly	RRF	wtval	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.8805	10.000					0.0283	
2	1,2,3,7,8-PeCDD			NO	0.9320	10.000					0.0423	
3	1,2,3,4,7,8-HxCDD			NO	1.0203	10.000					0.0773	
4	1,2,3,6,7,8-HxCDD			NO	0.9025	10.000					0.0797	
5	1,2,3,7,8,9-HxCDD			NO	0.9542	10.000					0.0855	
6	1,2,3,4,6,7,8-HpCDD			NO	0.9180	10.000					0.0742	
7	OCDD			NO	0.8858	10.000					0.168	
8	2,3,7,8-TCDF			NO	0.8480	10.000					0.0153	
9	1,2,3,7,8-PeCDF			NO	0.9597	10.000					0.0425	
10	2,3,4,7,8-PeCDF			NO	1.0871	10.000					0.0365	
11	1,2,3,4,7,8-HxCDF			NO	0.9859	10.000					0.0462	
12	1,2,3,6,7,8-HxCDF			NO	1.0388	10.000					0.0454	
13	2,3,4,6,7,8-HxCDF			NO	1.0202	10.000					0.0540	



Dataset: Untitled

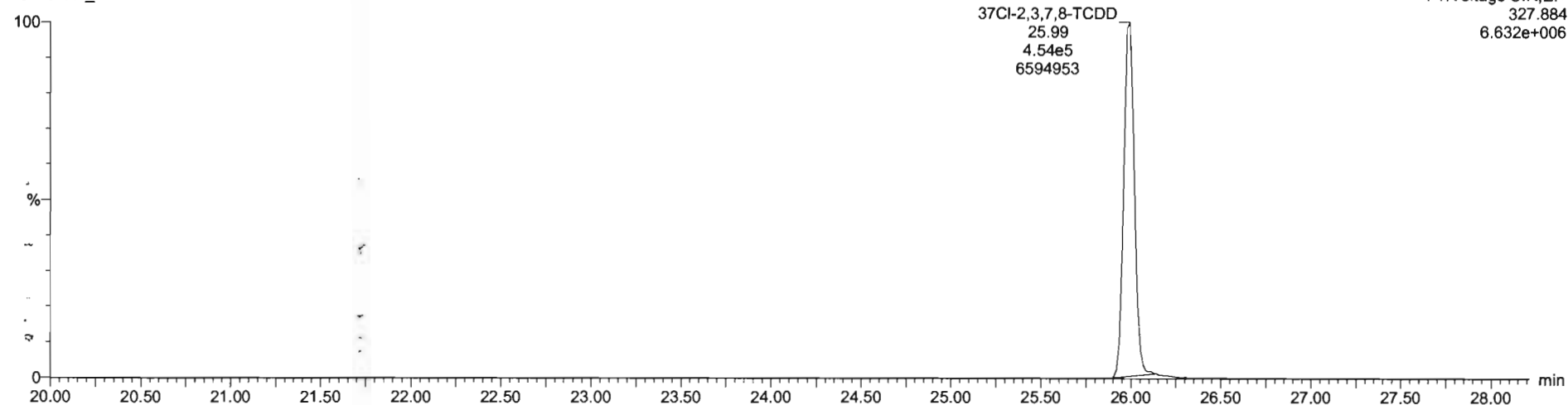
Last Altered: Saturday, December 05, 2020 13:08:15 Pacific Standard Time

Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

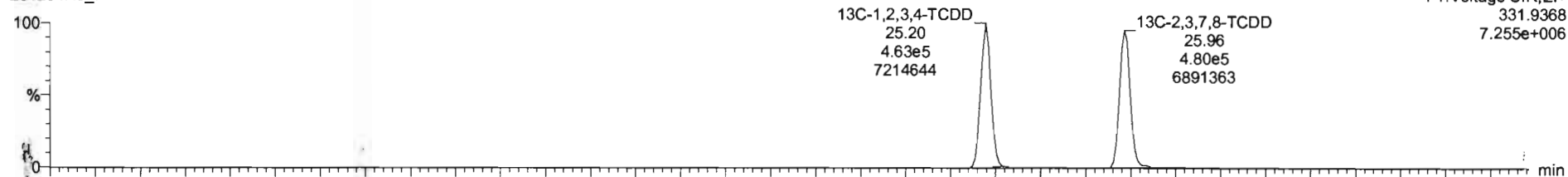
37Cl-2,3,7,8-TCDD

201204R3_7

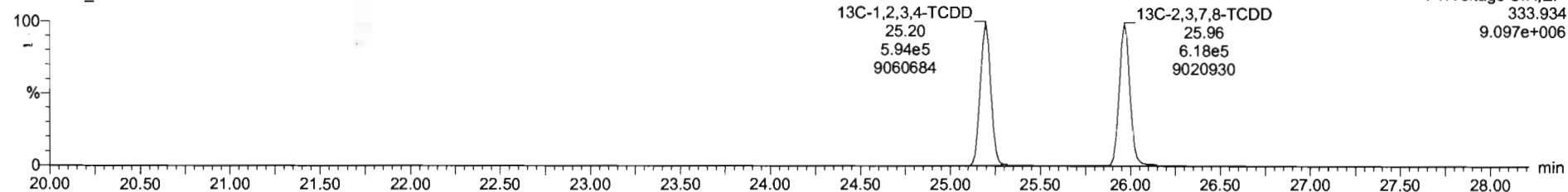


13C-1,2,3,4-TCDD

201204R3_7



201204R3_7



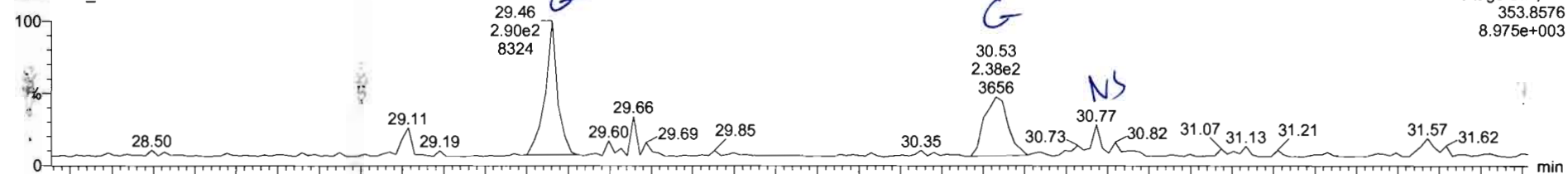
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Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

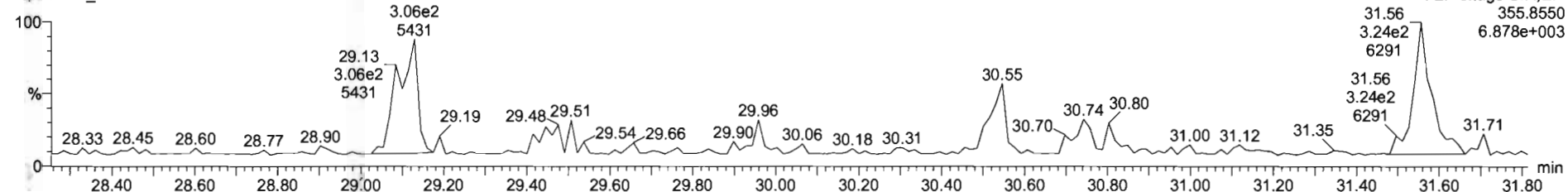
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1,2,3,7,8-PeCDD

201204R3_7

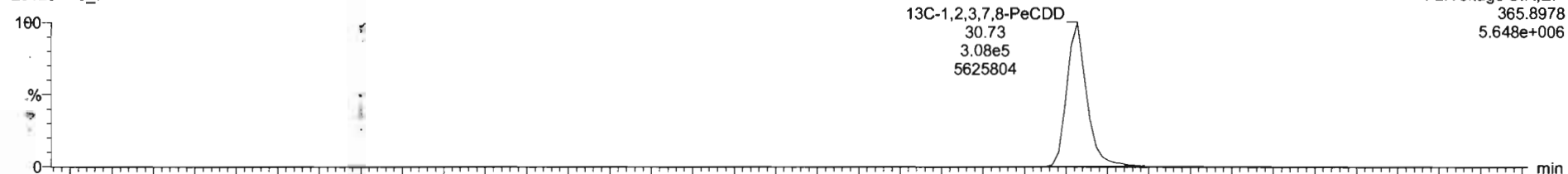


201204R3_7

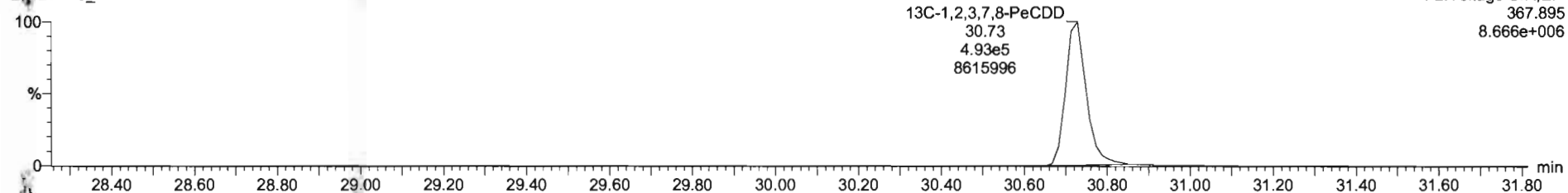


13C-1,2,3,7,8-PeCDD

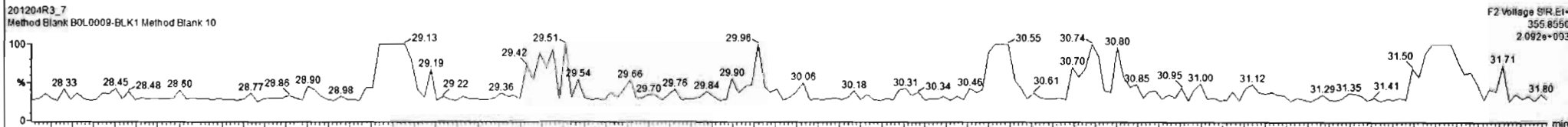
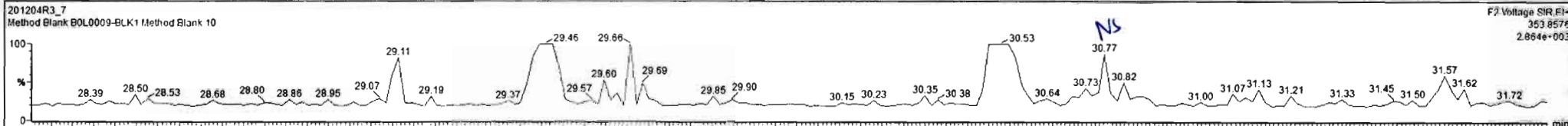
201204R3_7



201204R3_7



Name	Resp	RA	nty	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9605	10.000					0.0194	
40	Total Penta-Dioxins			0.9329	10.000					0.0195	
41	Total Hexa-Dioxins			0.9025	10.000					0.0569	
42	Total Hepta-Dioxins			0.9180	10.000					0.0384	
43	Total Tetra-Furans			0.8480	10.000					0.00693	
44	1st Func. Penta-Furans			0.9597	10.000					0.00909	
45	Total Penta-Furans			0.9597	10.000					0.0223	
46	Total Hexa-Furans			1.0202	10.000					0.0256	
47	Total Hepta-Furans			1.0492	10.000					0.0360	
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										



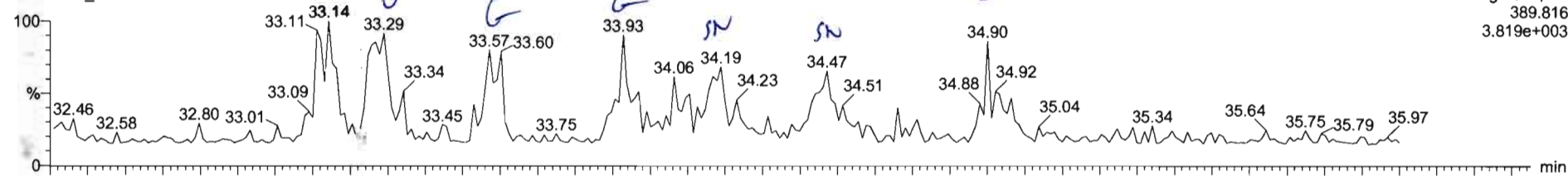
Dataset: Untitled

Last Altered: Saturday, December 05, 2020 13:08:15 Pacific Standard Time
Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

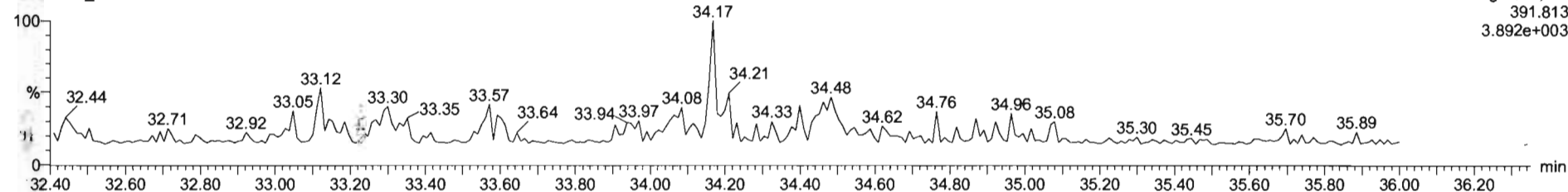
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1,2,3,4,7,8-HxCDD

201204R3_7

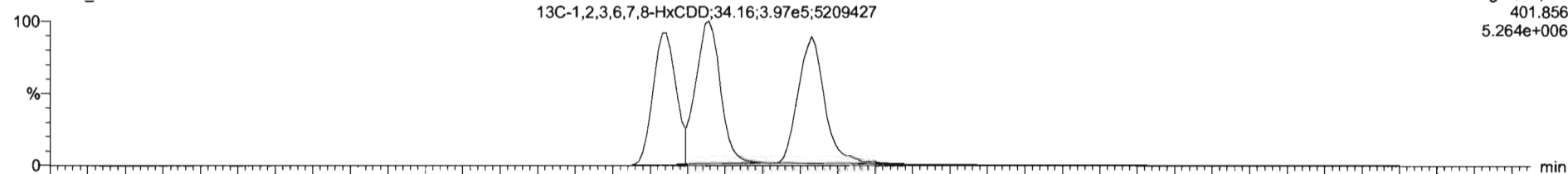


201204R3_7

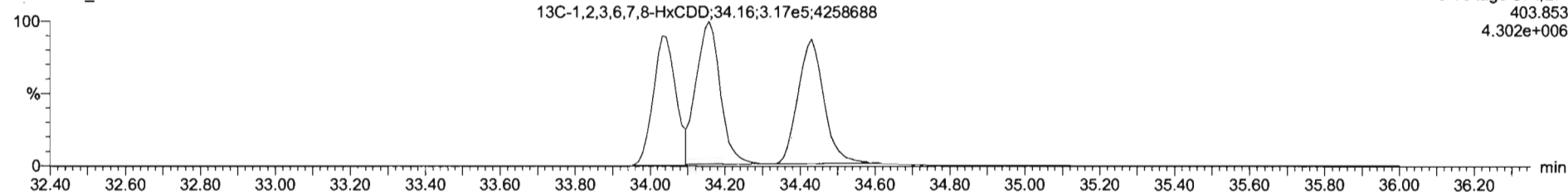


13C-1,2,3,4,7,8-HxCDD

201204R3_7

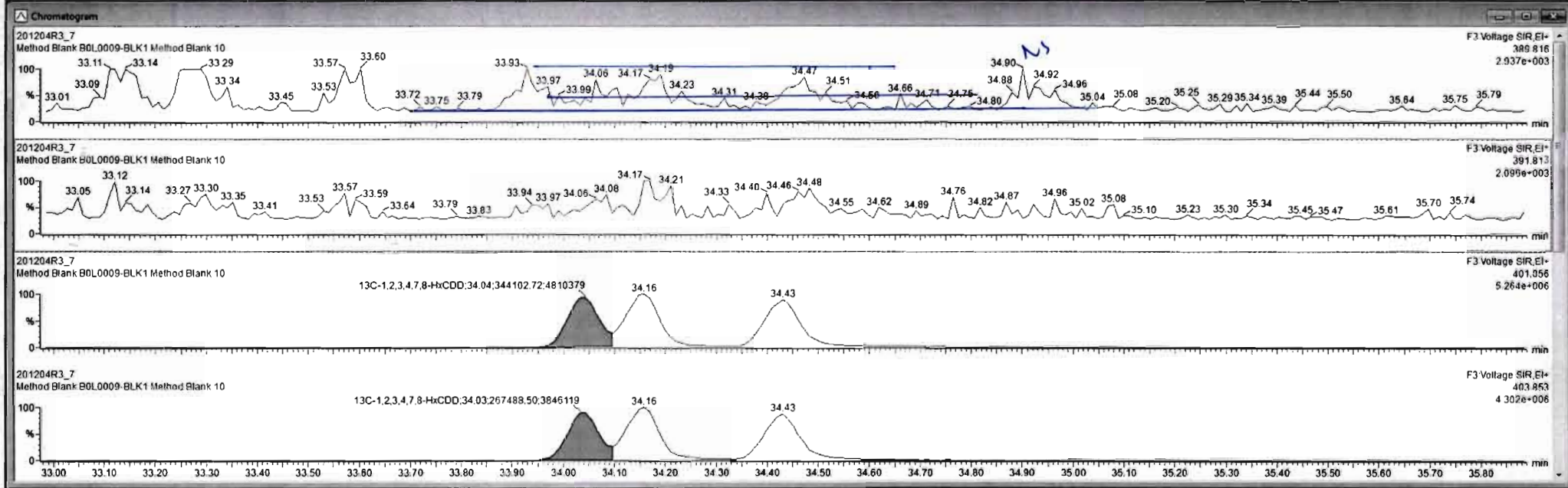


201204R3_7



201204R3_7 - B0L0009-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	nly	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9005	10.000					0.0194	
40 Total Penta-Dioxins				0.9320	10.000					0.0195	
41 Total Hexa-Dioxins				0.9025	10.000					0.0569	
42 Total Hepta-Dioxins				0.9180	10.000					0.0384	
43 Total Tetra-Furans				0.8480	10.000					0.00693	
44 1st Func. Penta-Furans				0.9597	10.000					0.00609	
45 Total Penta-Furans				0.9597	10.000					0.0223	
46 Total Hexa-Furans				1.0202	10.000					0.0255	
47 Total Hepta-Furans				1.0492	10.000					0.0360	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											



Dataset: Untitled

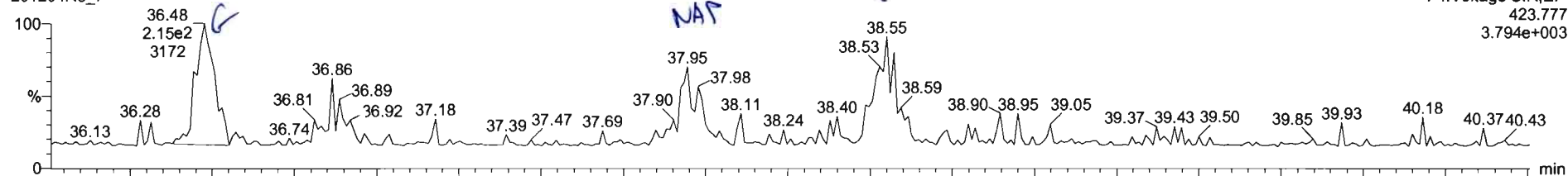
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Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

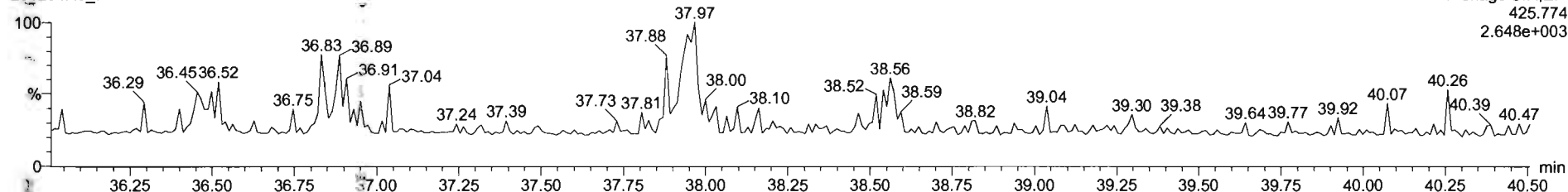
1,2,3,4,6,7,8-HpCDD

201204R3_7



F4:Voltage SIR,EI+
423.777
3.794e+003

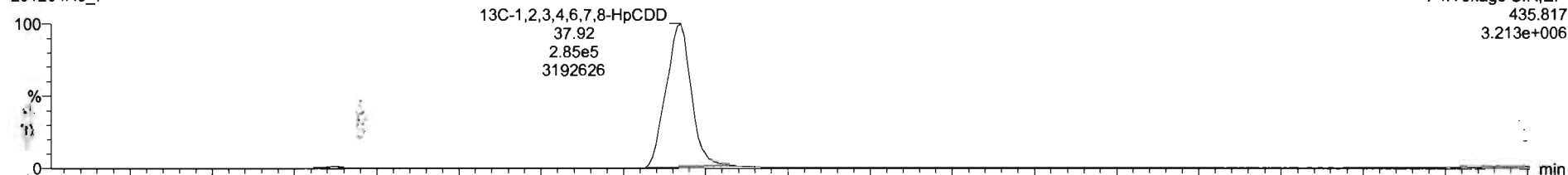
201204R3_7



F4:Voltage SIR,EI+
425.774
2.648e+003

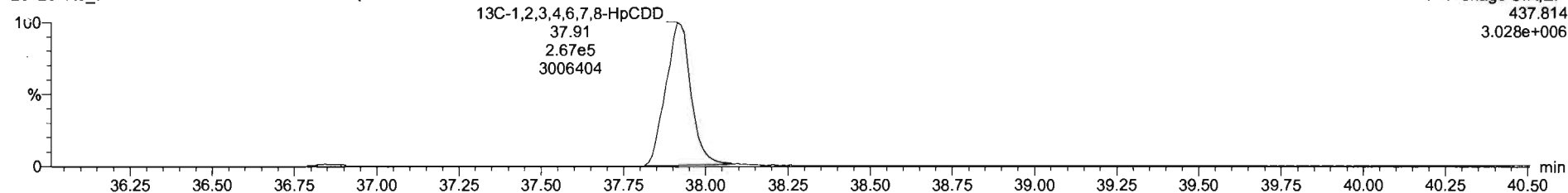
13C-1,2,3,4,6,7,8-HpCDD

201204R3_7



F4:Voltage SIR,EI+
435.817
3.213e+006

201204R3_7

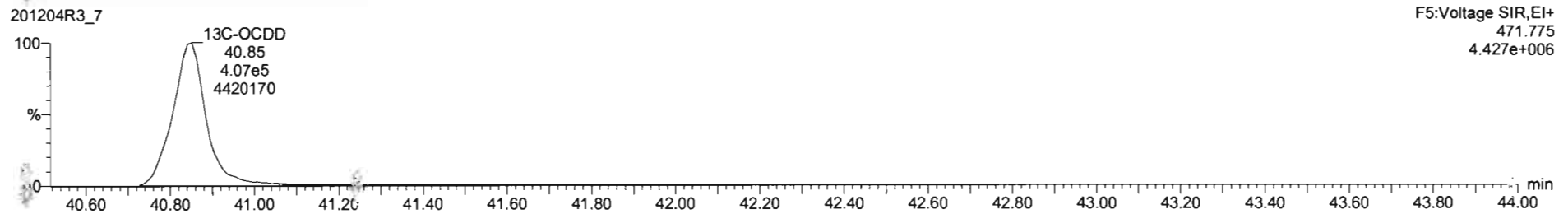
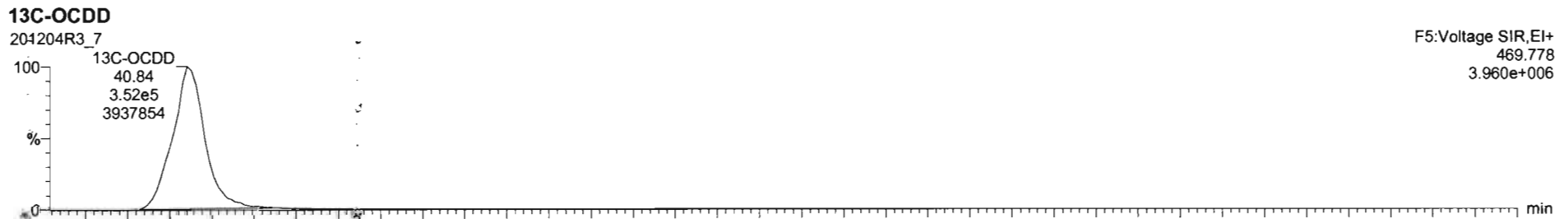
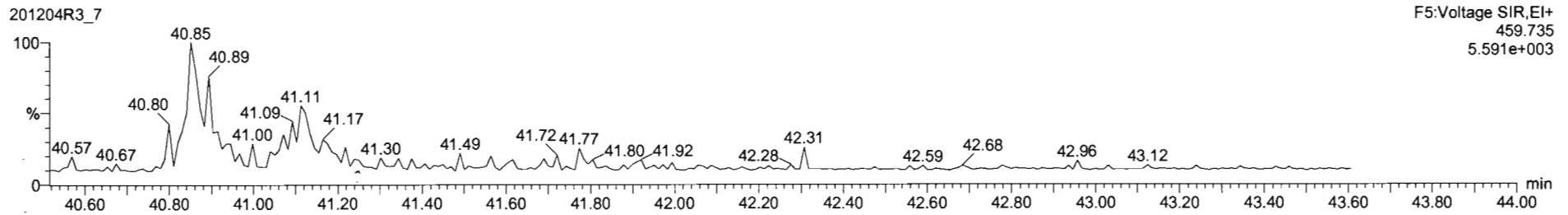
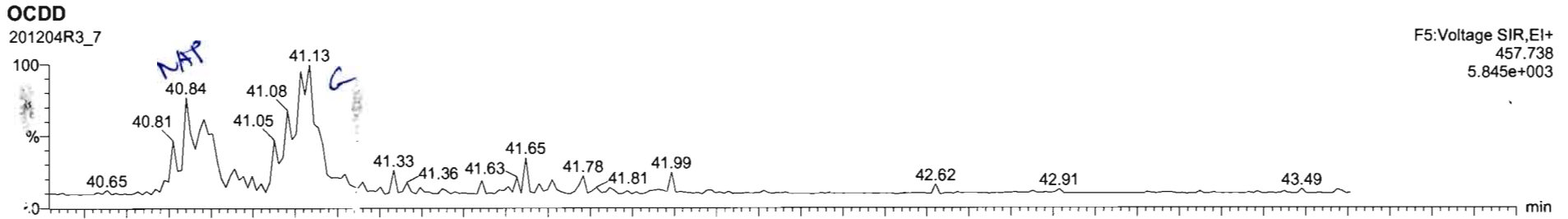


F4:Voltage SIR,EI+
437.814
3.028e+006

Dataset: Untitled

Last Altered: Saturday, December 05, 2020 13:08:15 Pacific Standard Time
Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

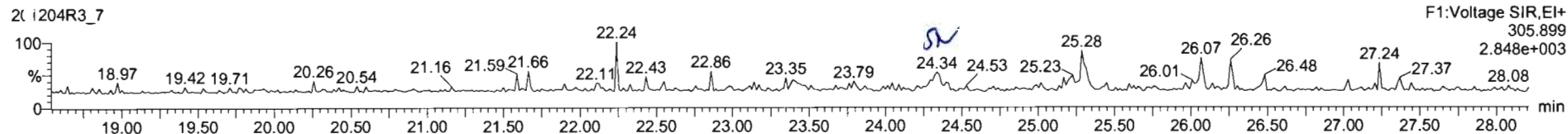
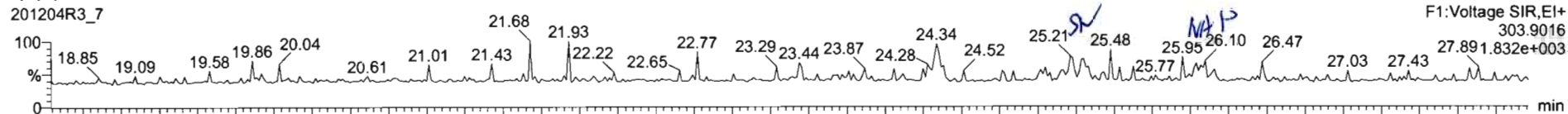


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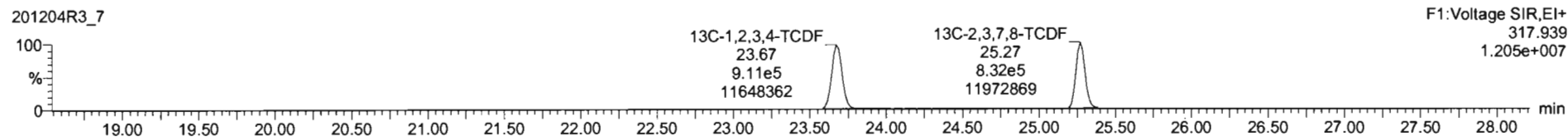
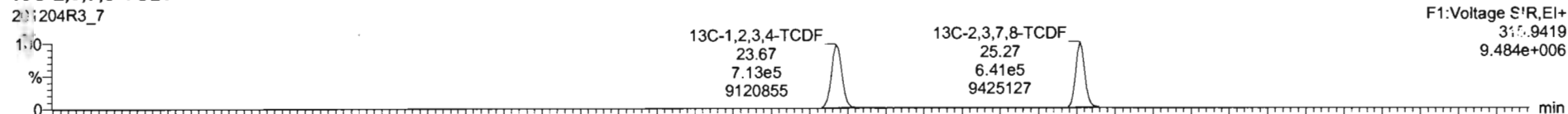
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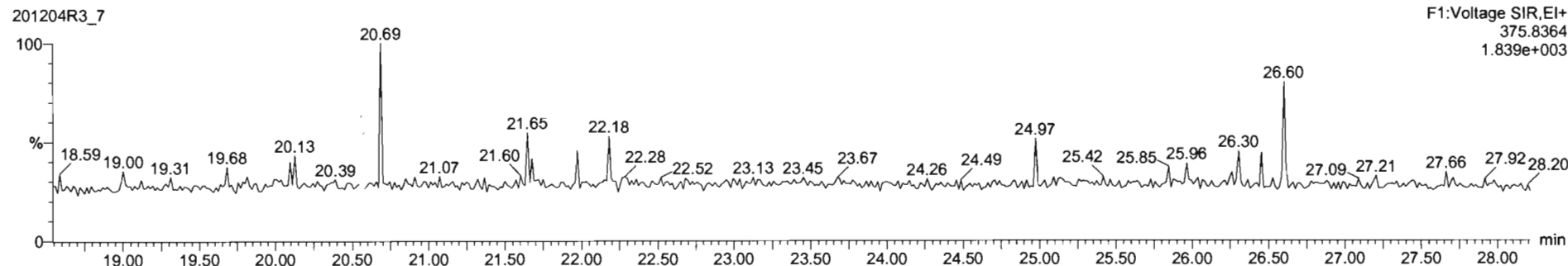
2,3,7,8-TCDF



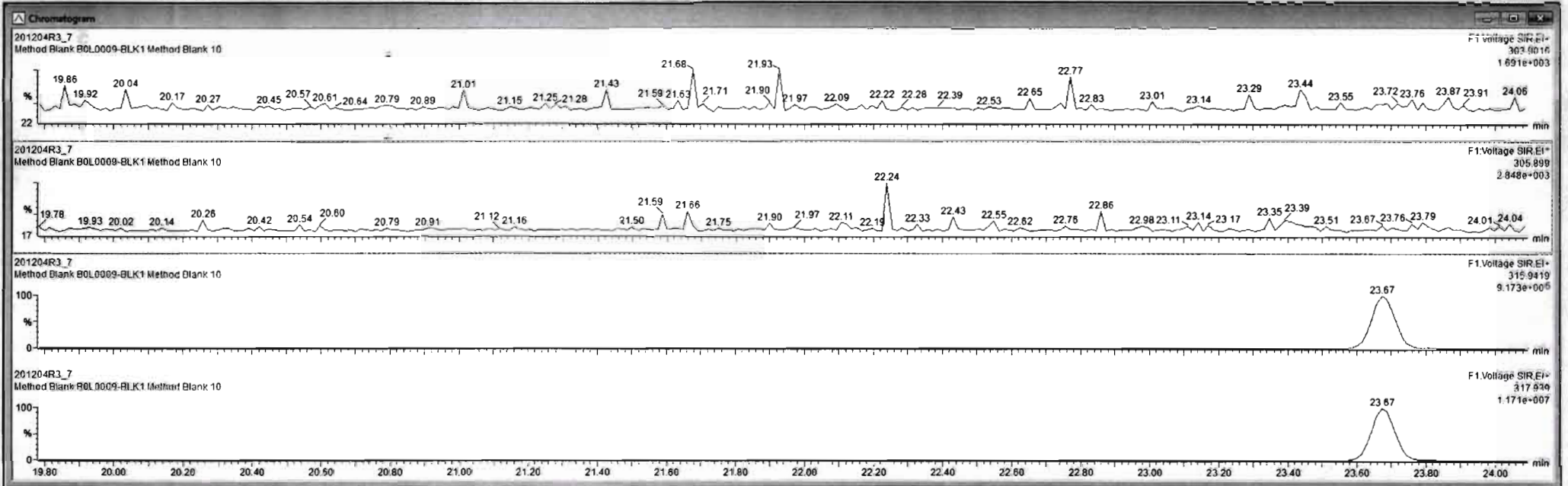
13C-2,3,7,8-TCDF



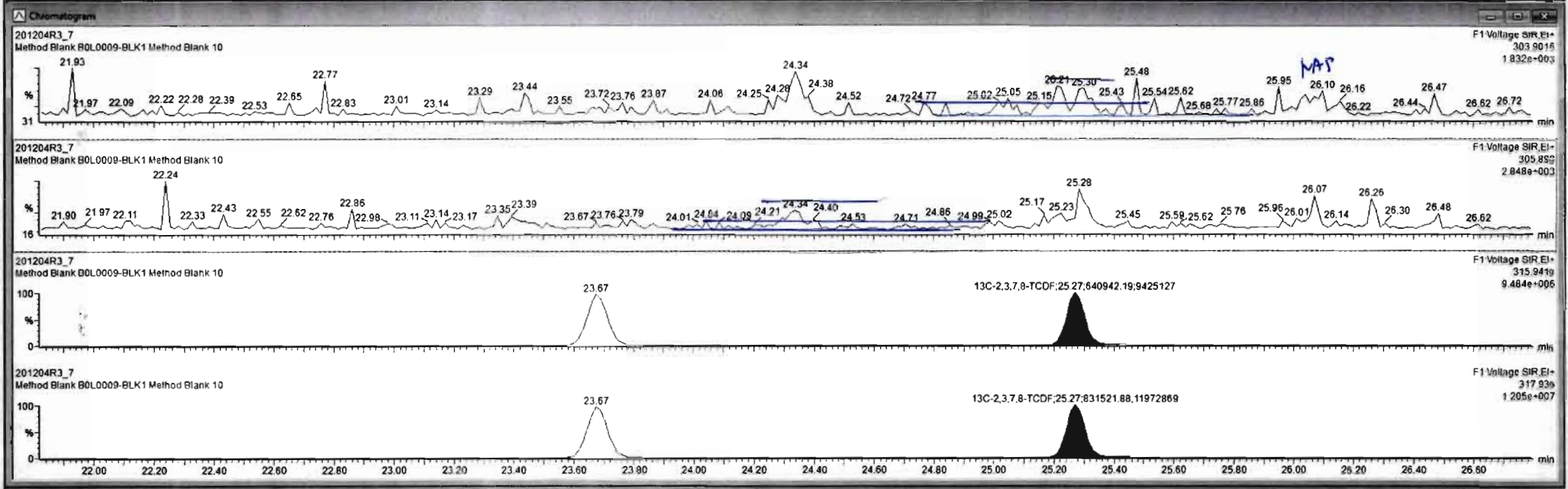
DPE1



Name	Reap	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8480	10.000					0.00693	
44 1st Func. Penta-Furans				0.9597	10.000					0.00609	
45 Total Penta-Furans				0.9597	10.000					0.0223	
46 Total Hexa-Furans				1.0202	10.000					0.0256	
47 Total Hepta-Furans				1.0492	10.000					0.0360	
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				0.8480	10.000					0.00693	
44 1st Func. Penta-Furans				0.9597	10.000					0.00609	
45 Total Penta-Furans				0.9597	10.000					0.0223	
46 Total Hexa-Furans				1.0202	10.000					0.0256	
47 Total Hepta-Furans				1.0492	10.000					0.0360	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											



Dataset: Untitled

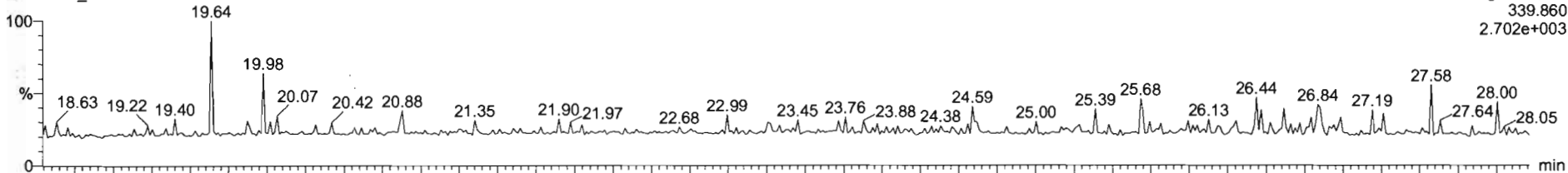
Last Altered: Saturday, December 05, 2020 13:08:15 Pacific Standard Time
Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

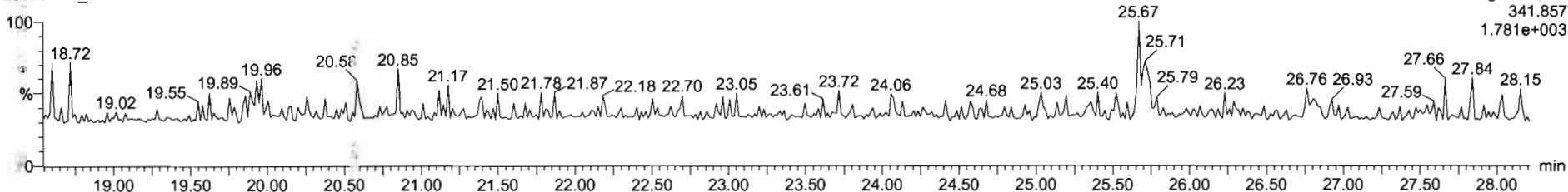
201204R3_7

F1:Voltage SIR,EI+
339.860
2.702e+003



201204R3_7

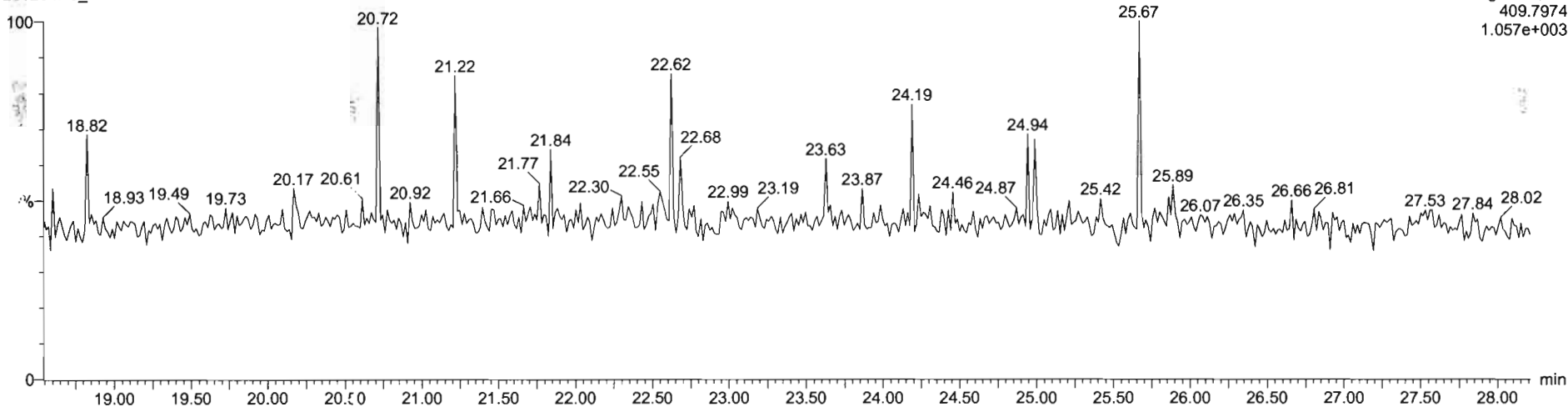
F1:Voltage SIR,EI+
341.857
1.781e+003



DPE6

201204R3_7

F1:Voltage SIR,EI+
409.7974
1.057e+003



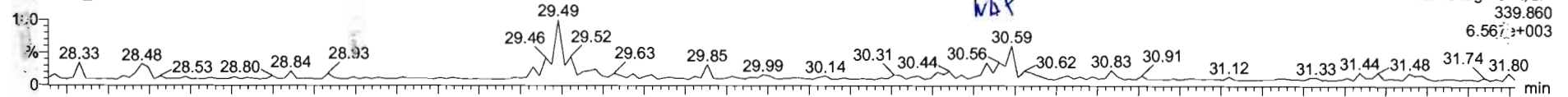
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Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

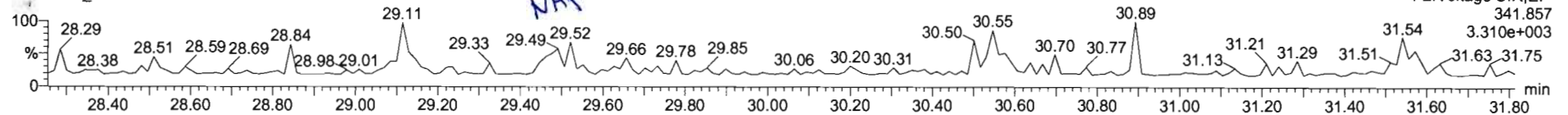
Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

1,2,3,7,8-PeCDF

201204R3_7

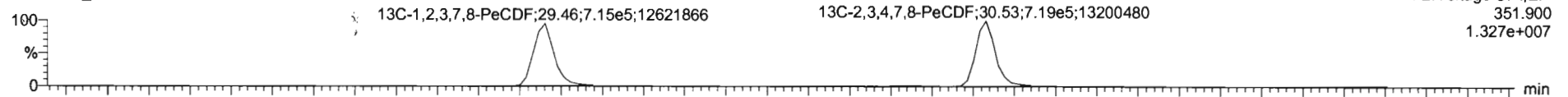


201204R3_7

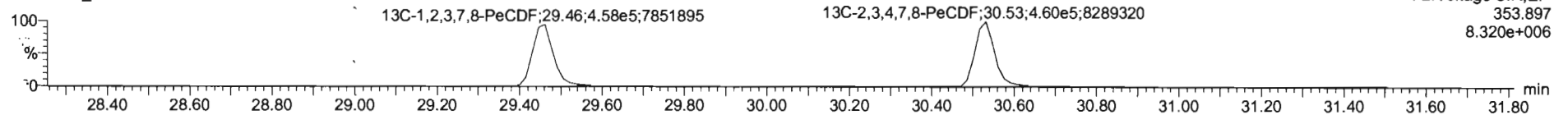


13C-1,2,3,7,8-PeCDF

201204R3_7

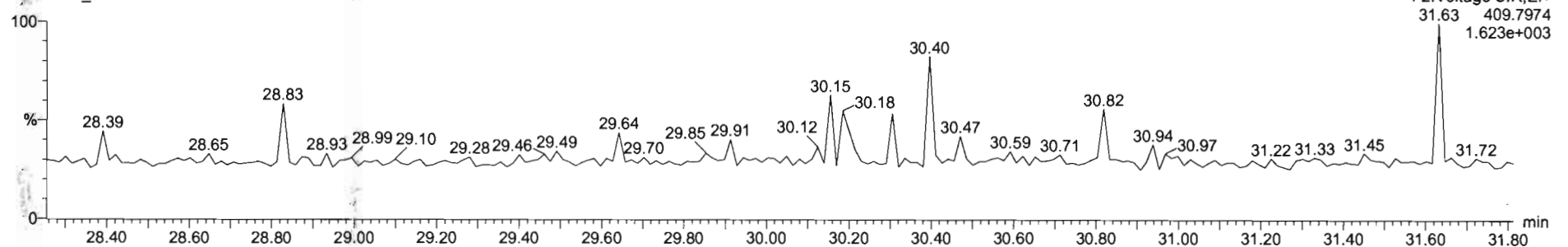


201204R3_7



DPE2

201204R3_7



Dataset: Untitled

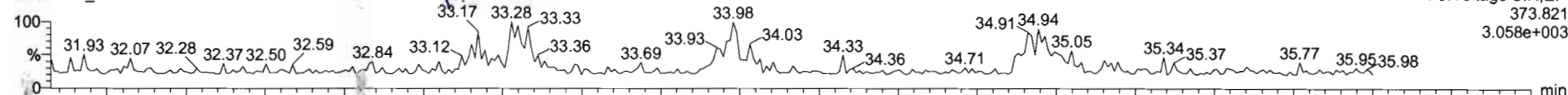
Last Altered: Saturday, December 05, 2020 13:08:15 Pacific Standard Time

Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

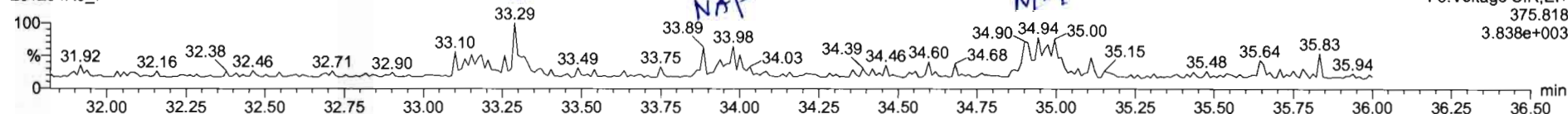
Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

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

201204R3_7

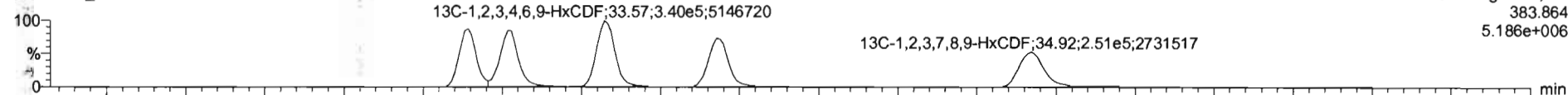


201204R3_7

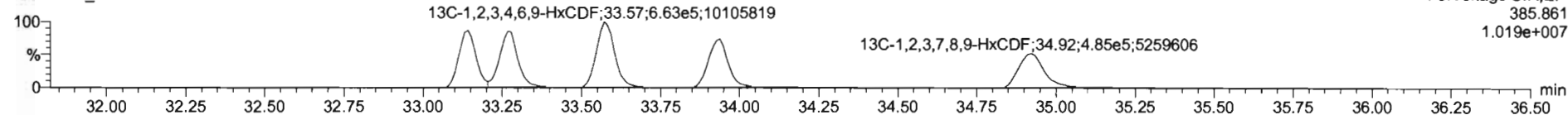


1,3-C-1,2,3,4,7,8-HxCDF

201204R3_7

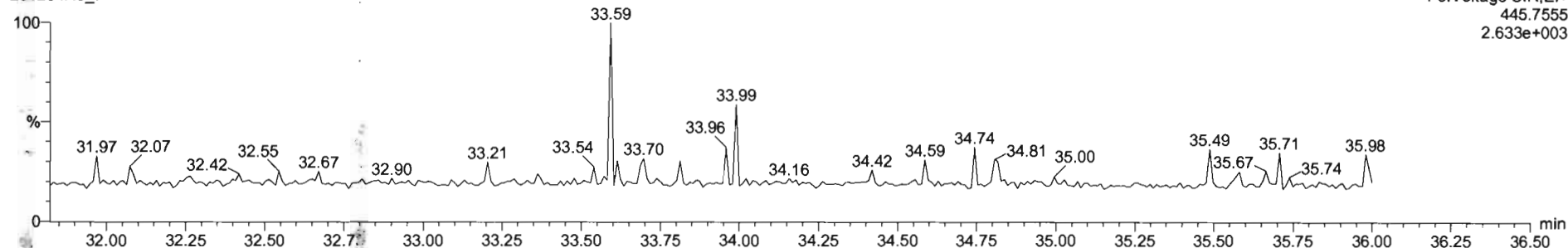


201204R3_7



DPE3

201204R3_7



Dataset: Untitled

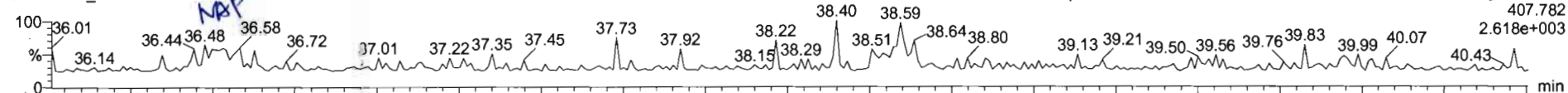
Last Altered: Saturday, December 05, 2020 13:08:15 Pacific Standard Time

Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

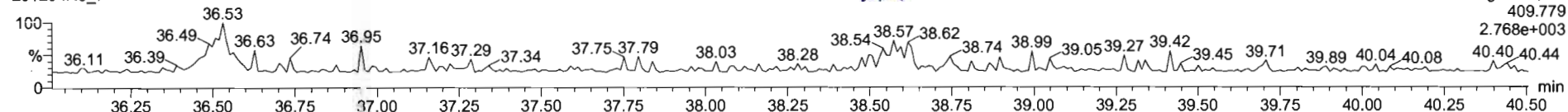
Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

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

201204R3_7

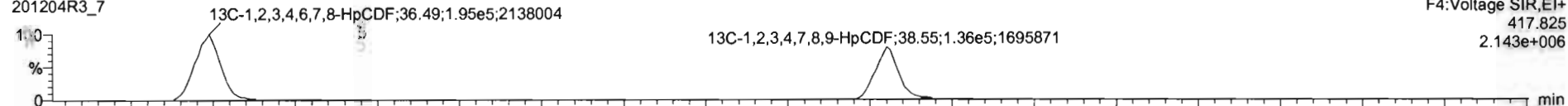


201204R3_7

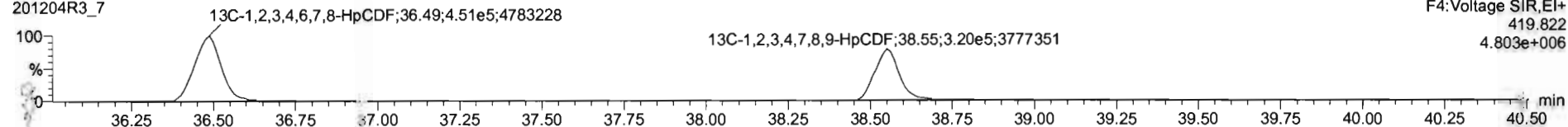


13C-1,2,3,4,6,7,8-HpCDF

201204R3_7

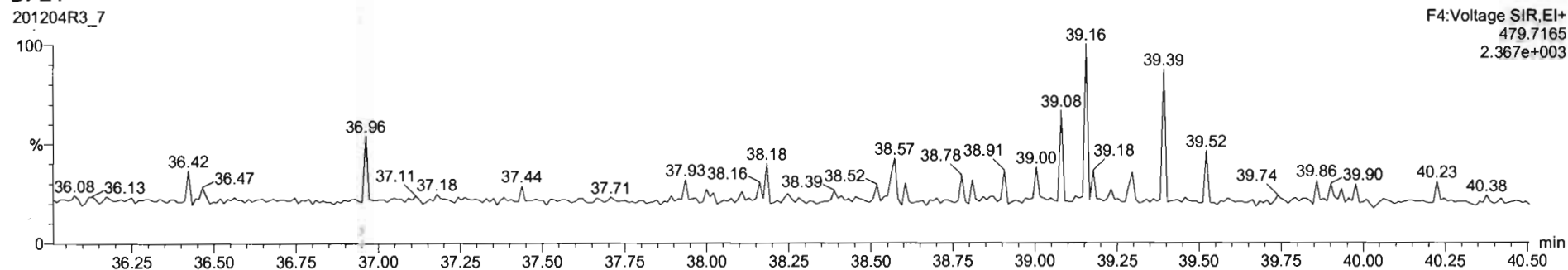


201204R3_7



DPE4

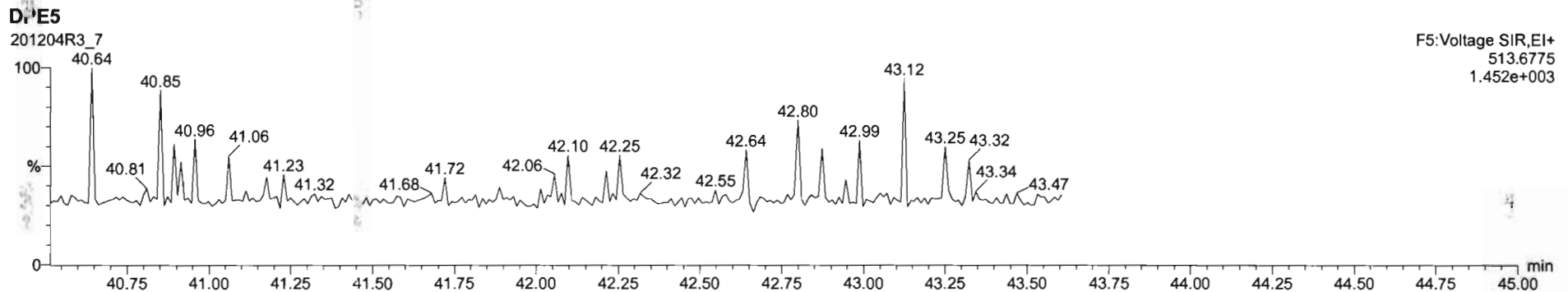
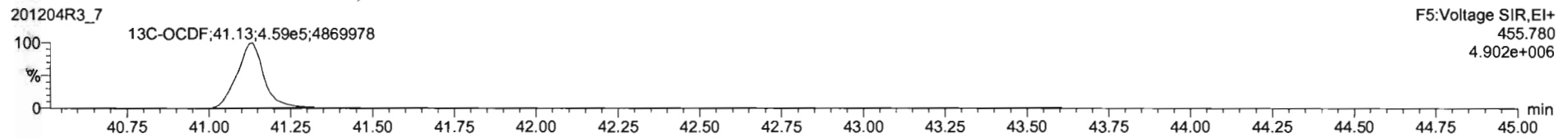
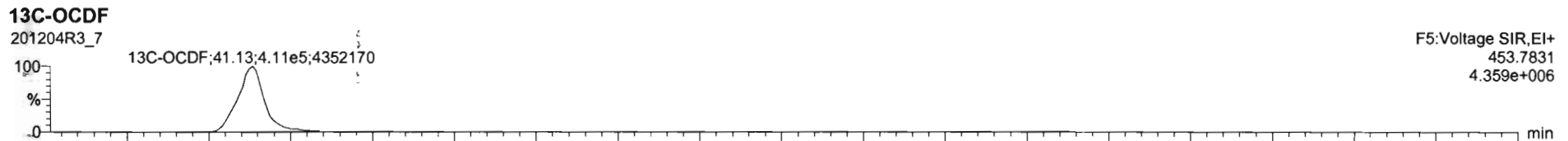
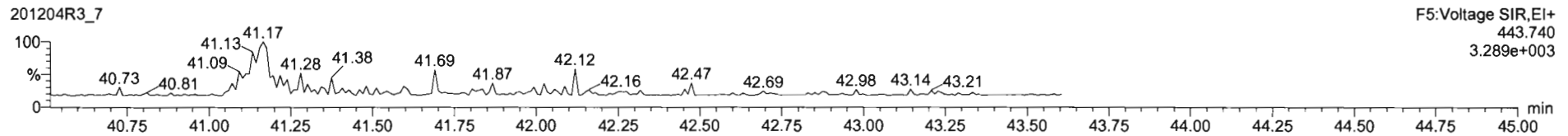
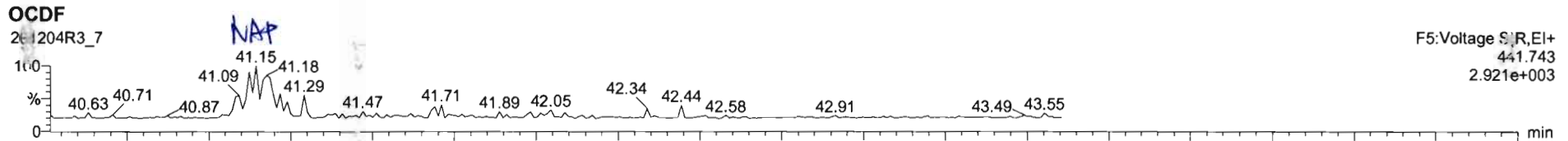
201204R3_7



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Last Altered: Saturday, December 05, 2020 13:08:15 Pacific Standard Time
Printed: Saturday, December 05, 2020 13:08:29 Pacific Standard Time

Name: 201204R3_7, Date: 04-Dec-2020, Time: 21:31:57, ID: B0L0009-BLK1 Method Blank 10, Description: Method Blank

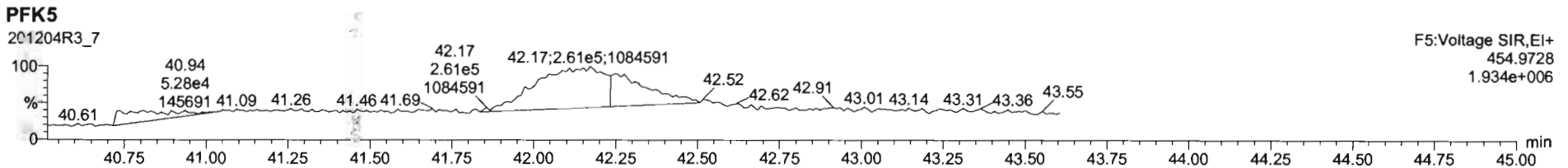
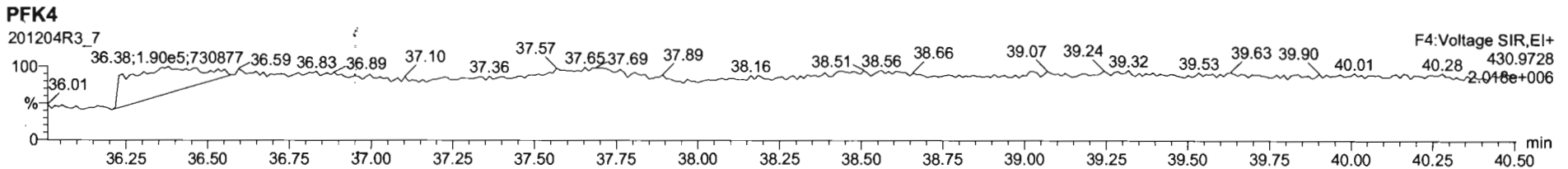
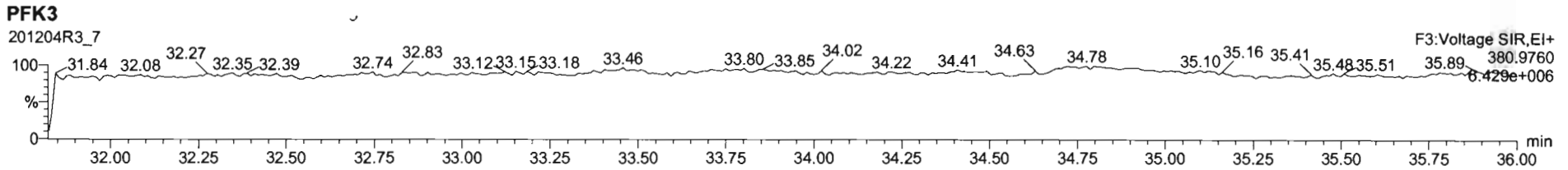
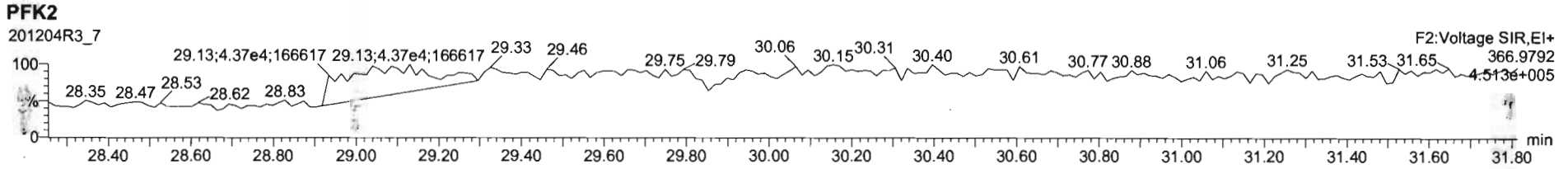
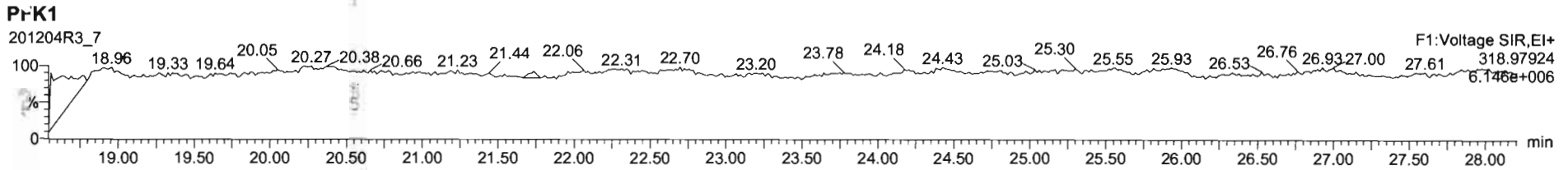


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Dataset: U:\VG12.PRO\Results\201204R3\201204R3_3.qld

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Printed: Wednesday, December 09, 2020 12:30:50 Pacific Standard Time

HW 12/09/2020

Method: Untitled 05 Dec 2020 10:07:10

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

CT 12/09/2020

Name: 201204R3_3, Date: 04-Dec-2020, Time: 18:32:29, ID: B0L0009-BS1 OPR 1, Description: OPR

HW 12/09/2020 HW 12/09/2020

#	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	1.07e5	0.76	NO	0.980	1.000 10.00	26.010	25.99	1.001	1.001	22.090		0.0470	22.1
2	2 1,2,3,7,8-PeCDD	3.93e5	0.61	NO	0.932	1.000	30.773	30.76	1.001	1.000	114.45		0.104	114
3	3 1,2,3,4,7,8-HxCDD	2.98e5	1.25	NO	1.02	1.000	34.062	34.05	1.001	1.000	116.51		0.255	117
4	4 1,2,3,6,7,8-HxCDD	3.22e5	1.26	NO	0.902	1.000	34.178	34.18	1.001	1.001	119.47		0.263	119
5	5 1,2,3,7,8,9-HxCDD	3.00e5	1.23	NO	0.954	1.000	34.440	34.45	1.000	1.001	115.02		0.295	115
6	6 1,2,3,4,6,7,8-HpCDD	2.05e5	1.03	NO	0.918	1.000	37.924	37.92	1.000	1.000	113.97		0.478	114
7	7 OCDD	2.72e5	0.89	NO	0.866	1.000	40.828	40.83	1.000	1.000	233.05		0.588	233
8	8 2,3,7,8-TCDF	1.17e5	0.74	NO	0.848	1.000	25.273	25.30	1.000	1.001	21.375		0.0826	21.4
9	9 1,2,3,7,8-PeCDF	5.53e5	1.59	NO	0.960	1.000	29.479	29.49	1.000	1.001	110.59		0.275	111
10	10 2,3,4,7,8-PeCDF	6.33e5	1.57	NO	1.07	1.000	30.567	30.56	1.001	1.000	113.76		0.219	114
11	11 1,2,3,4,7,8-HxCDF	3.92e5	1.24	NO	0.986	1.000	33.163	33.16	1.000	1.000	115.15		0.277	115
12	12 1,2,3,6,7,8-HxCDF	4.43e5	1.23	NO	1.04	1.000	33.298	33.30	1.001	1.001	113.22		0.256	113
13	13 2,3,4,6,7,8-HxCDF	3.82e5	1.23	NO	1.02	1.000	33.958	33.95	1.001	1.000	114.08		0.302	114
14	14 1,2,3,7,8,9-HxCDF	3.20e5	1.25	NO	0.991	1.000	34.932	34.94	1.000	1.001	113.41		0.468	113
15	15 1,2,3,4,6,7,8-HpCDF	2.73e5	1.01	NO	1.05	1.000	36.504	36.50	1.000	1.000	114.03		0.486	114
16	16 1,2,3,4,7,8,9-HpCDF	2.18e5	1.02	NO	1.18	1.000	38.551	38.55	1.000	1.000	114.53		0.521	115
17	17 OCDF	3.16e5	0.88	NO	0.896	1.000	41.111	41.12	1.000	1.001	231.09		0.380	231
18	18 13C-2,3,7,8-TCDD	9.88e5	0.78	NO	1.06	1.000	25.957	25.98	1.030	1.031	192.69	96.3	0.192	
19	19 13C-1,2,3,7,8-PeCDD	7.36e5	0.63	NO	0.785	1.000	30.724	30.74	1.219	1.220	193.27	96.6	0.429	
20	20 13C-1,2,3,4,7,8-HxCDD	5.02e5	1.27	NO	0.621	1.000	34.039	34.04	1.014	1.014	191.05	95.5	0.466	
21	21 13C-1,2,3,6,7,8-HxCDD	5.97e5	1.24	NO	0.734	1.000	34.160	34.16	1.017	1.017	192.18	96.1	0.394	
22	22 13C-1,2,3,7,8,9-HxCDD	5.47e5	1.25	NO	0.723	1.000	34.442	34.43	1.026	1.025	178.94	89.5	0.400	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.92e5	1.05	NO	0.568	1.000	37.911	37.91	1.129	1.129	163.06	81.5	0.687	
24	24 13C-OCDD	5.39e5	0.91	NO	0.496	1.000	40.822	40.82	1.216	1.216	256.82	64.2	0.583	
25	25 13C-2,3,7,8-TCDF	1.29e6	0.77	NO	0.919	1.000	25.267	25.27	1.003	1.003	190.58	95.3	0.264	
26	26 13C-1,2,3,7,8-PeCDF	1.04e6	1.57	NO	0.715	1.000	29.454	29.48	1.169	1.170	198.37	99.2	0.764	
27	27 13C-2,3,4,7,8-PeCDF	1.04e6	1.57	NO	0.689	1.000	30.525	30.55	1.212	1.212	206.15	103	0.793	
28	28 13C-1,2,3,4,7,8-HxCDF	6.90e5	0.51	NO	0.873	1.000	33.152	33.15	0.987	0.987	186.71	93.4	0.542	
29	29 13C-1,2,3,6,7,8-HxCDF	7.54e5	0.51	NO	0.933	1.000	33.280	33.28	0.991	0.991	190.82	95.4	0.508	
30	30 13C-2,3,4,6,7,8-HxCDF	6.57e5	0.51	NO	0.843	1.000	33.941	33.94	1.011	1.011	184.07	92.0	0.562	
31	31 13C-1,2,3,7,8,9-HxCDF	5.69e5	0.50	NO	0.780	1.000	34.932	34.92	1.040	1.040	172.33	86.2	0.608	

Dataset: U:\VG12.PRO\Results\201204R3\201204R3_3.qld

Last Altered: Wednesday, December 09, 2020 12:28:14 Pacific Standard Time

Printed: Wednesday, December 09, 2020 12:30:50 Pacific Standard Time

Name: 201204R3_3, Date: 04-Dec-2020, Time: 18:32:29, ID: B0L0009-BS1 OPR 1, Description: OPR

HN 12/09/2020

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.56e5	0.44	NO	0.726	1.000 10.00	36.494	36.49	1.087	1.086	148.45	74.2	0.557	
33	13C-1,2,3,4,7,8,9-HpCDF	3.23e5	0.42	NO	0.491	1.000	38.542	38.54	1.148	1.148	155.45	77.7	0.825	
34	13C-OCDF	6.10e5	0.85	NO	0.565	1.000	41.101	41.10	1.224	1.224	255.09	63.8	0.483	
35	37Cl-2,3,7,8-TCDD	4.47e5			1.22	1.000	25.985	25.99	1.031	1.032	75.605	94.5	0.0762	
36	13C-1,2,3,4-TCDD	9.71e5	0.79	NO	1.00	1.000	25.200	25.20	1.000	1.000	200.00	100	0.202	
37	13C-1,2,3,4-TCDF	1.47e6	0.78	NO	1.00	1.000	23.660	23.66	1.000	1.000	200.00	100	0.243	
38	13C-1,2,3,4,6,9-HxCDF	8.46e5	0.51	NO	1.00	1.000	33.580	33.58	1.000	1.000	200.00	100	0.474	

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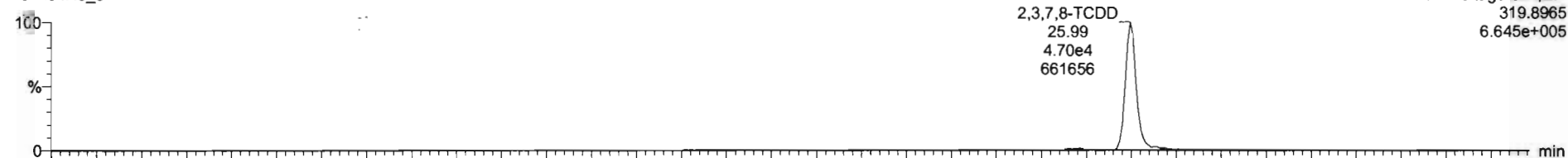
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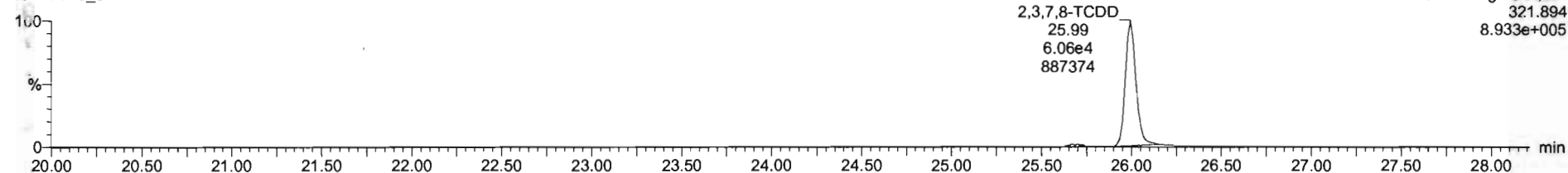
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2,3,7,8-TCDD

201204R3_3

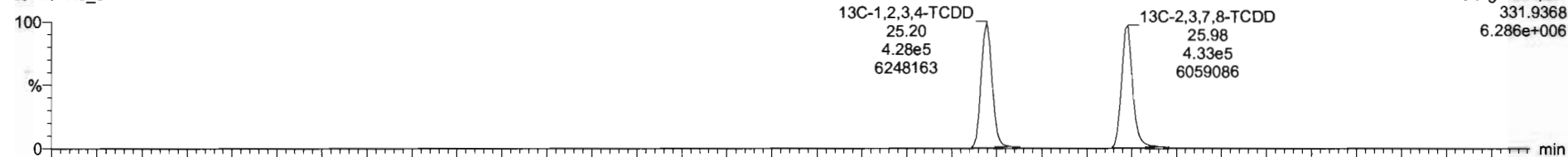


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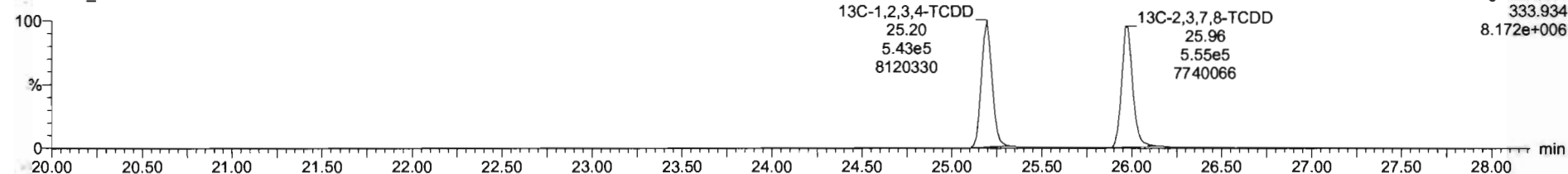


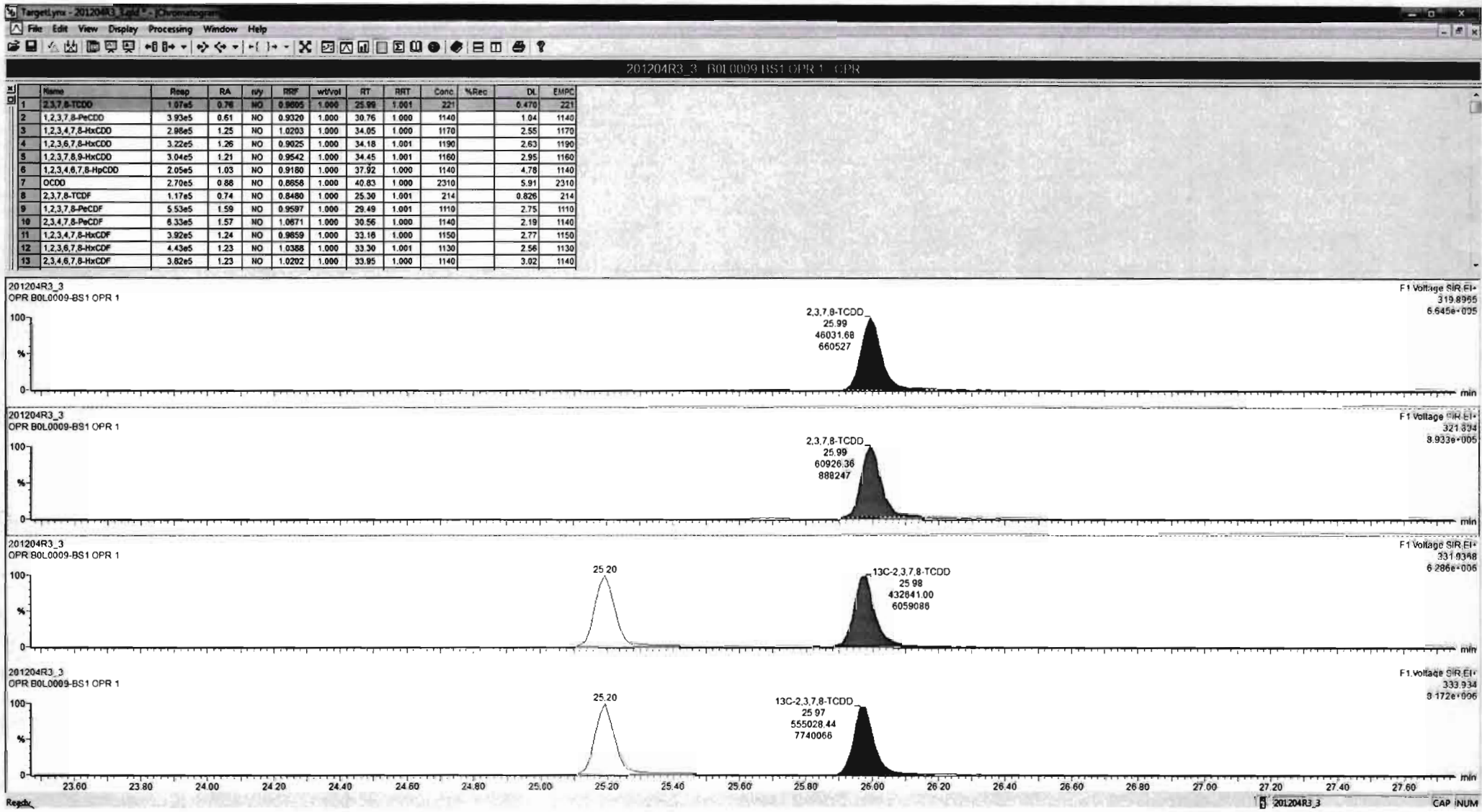
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201204R3_3





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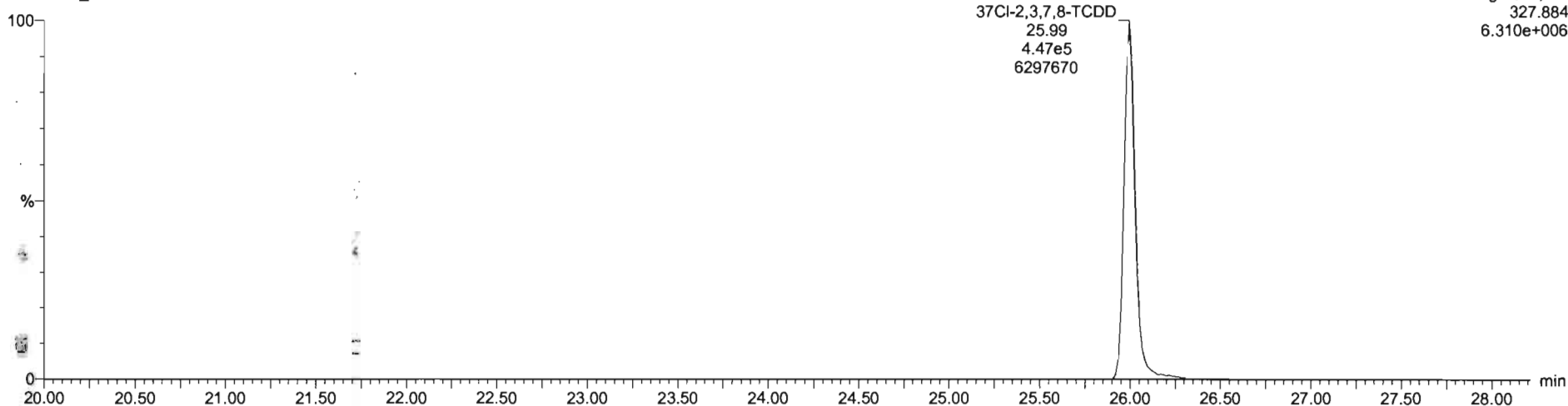
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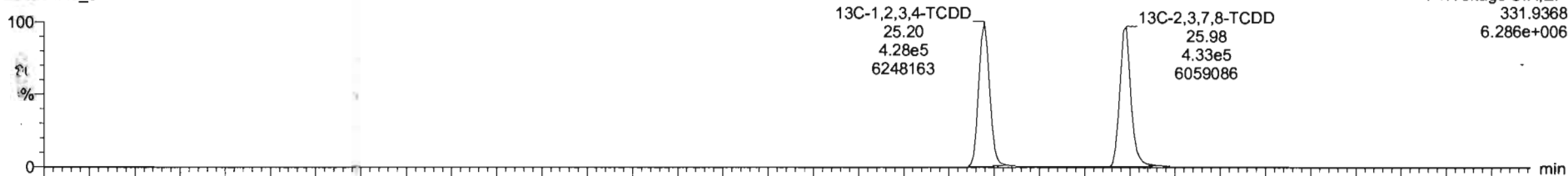
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201204R3_3

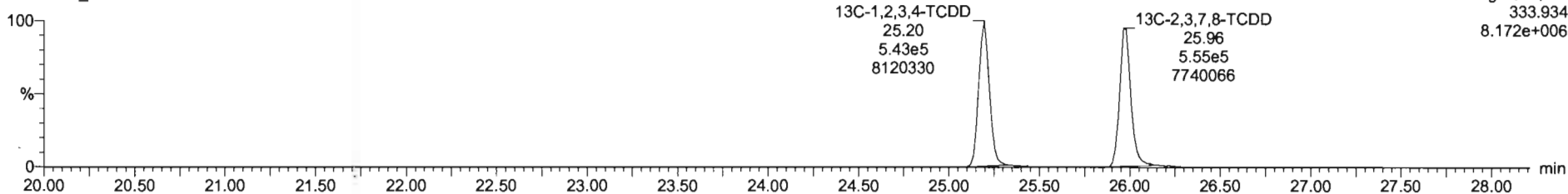


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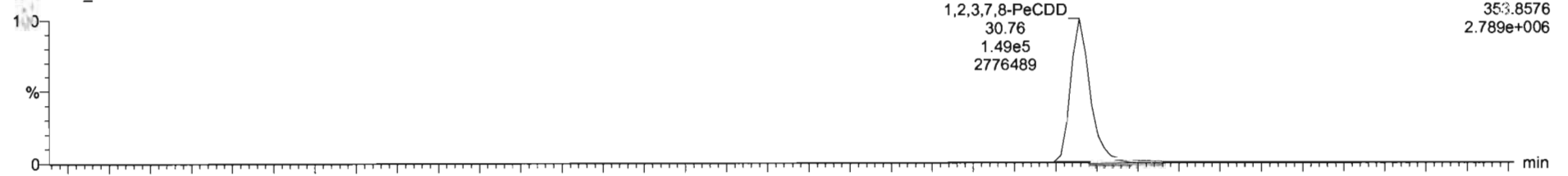
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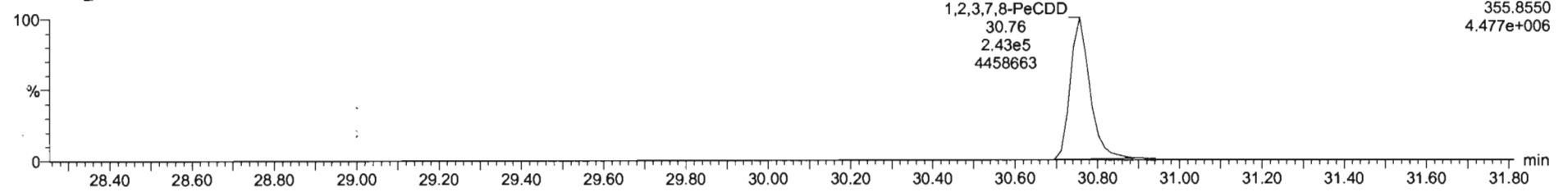
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1,2,3,7,8-PeCDD

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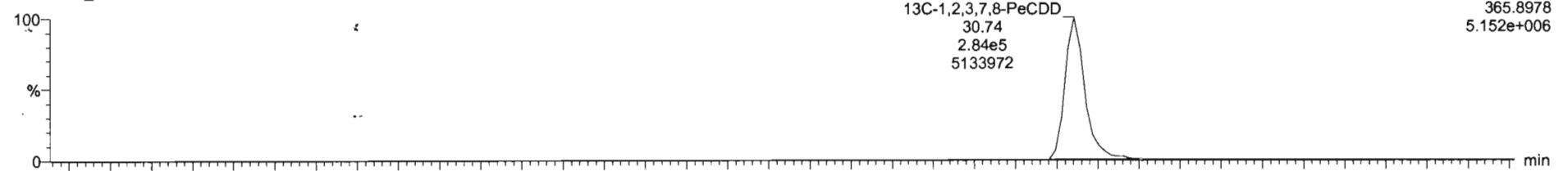


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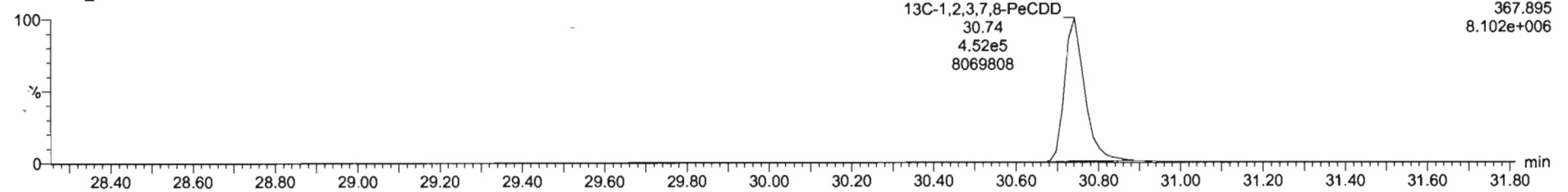


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201204R3_3



201204R3_3



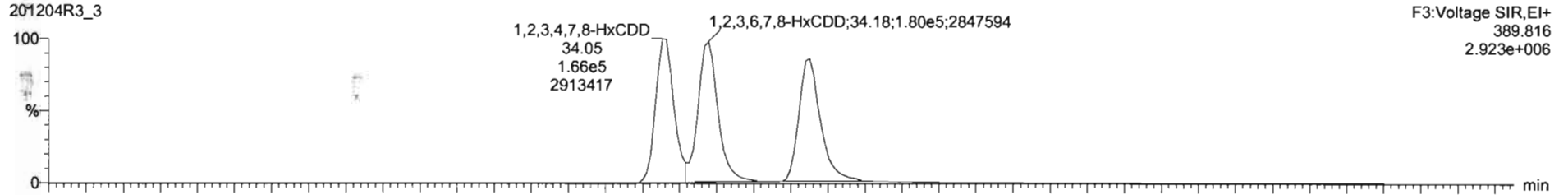
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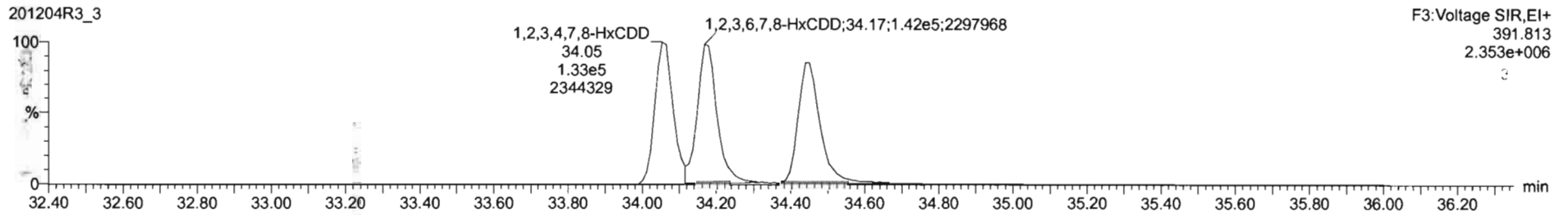
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1,2,3,4,7,8-HxCDD

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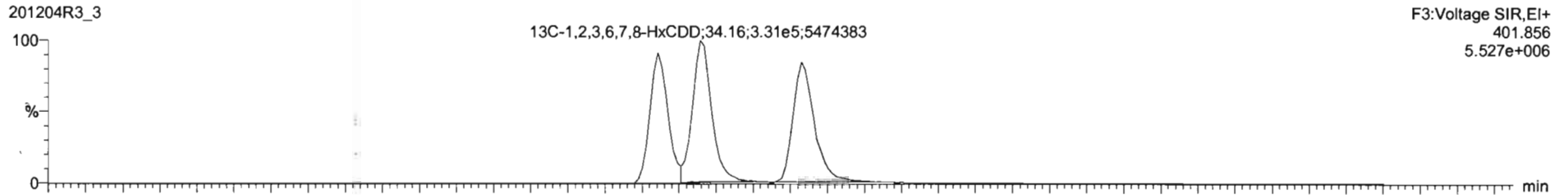


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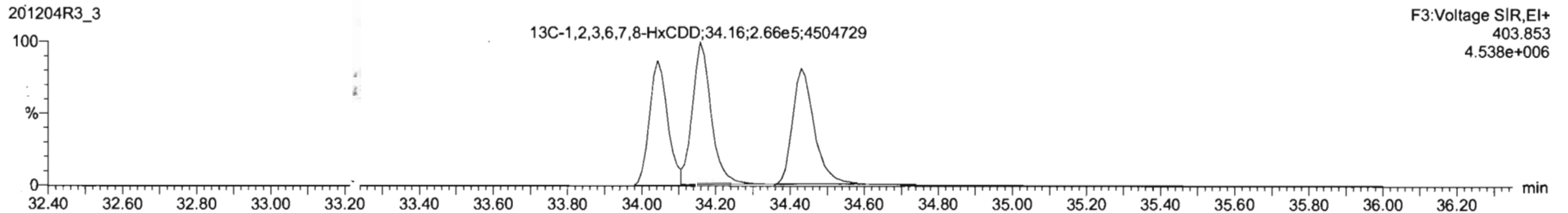


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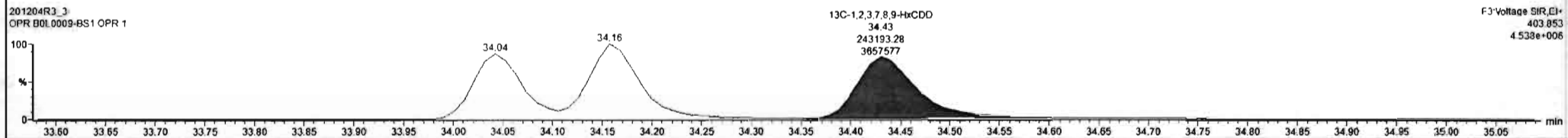
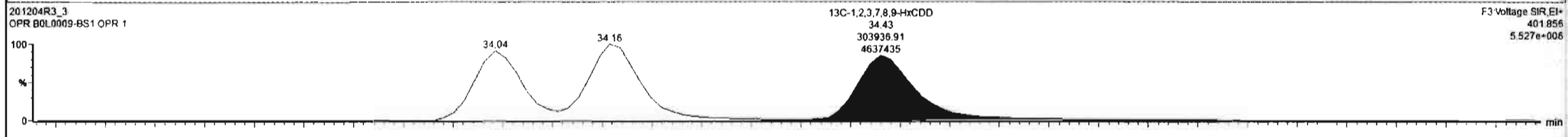
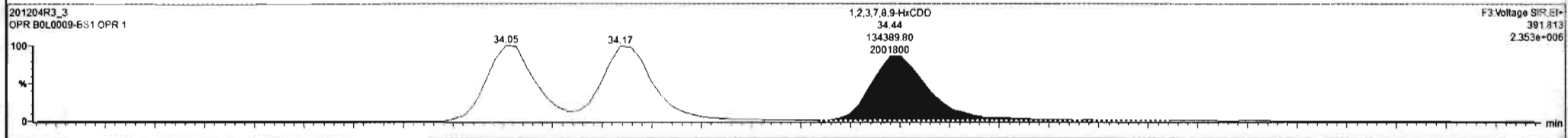
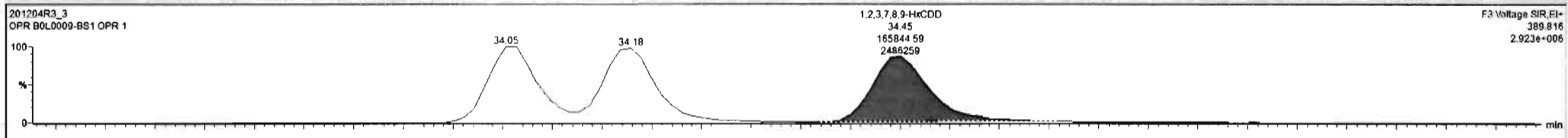


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201204R3_3 - B010009-BS1 OPR 1 OPR

Name	Resp	PA	slv	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.07e5	0.76	NO	0.9605	1.000	25.99	1.001	221		0.470	221
2 1,2,3,7,8-PeCDD	3.93e5	0.61	NO	0.9320	1.000	30.76	1.000	1140		1.04	1140
3 1,2,3,4,7,8-HxCDD	2.88e5	1.25	NO	1.0203	1.000	34.05	1.000	1170		2.55	1170
4 1,2,3,6,7,8-HxCDD	3.22e5	1.26	NO	0.9025	1.000	34.18	1.001	1190		2.63	1190
5 1,2,3,7,8,9-HxCDD	3.06e5	1.23	NO	0.9642	1.000	34.45	1.001	1150		2.95	1150
6 1,2,3,4,6,7,8-HpCDD	2.05e5	1.03	NO	0.9160	1.000	37.92	1.000	1140		4.78	1140
7 OCDD	2.70e5	0.88	NO	0.8658	1.000	40.83	1.000	2310		5.91	2310
8 2,3,7,8-TCDF	1.17e5	0.74	NO	0.8460	1.000	25.30	1.001	214		0.826	214
9 1,2,3,7,8-PeCDF	5.53e5	1.59	NO	0.9597	1.000	29.49	1.001	1110		2.75	1110
10 2,3,4,7,8-PeCDF	6.33e5	1.57	NO	1.0871	1.000	30.56	1.000	1140		2.19	1140
11 1,2,3,4,7,8-HxCDF	3.92e5	1.24	NO	0.9859	1.000	33.18	1.000	1150		2.77	1150
12 1,2,3,6,7,8-HxCDF	4.43e5	1.23	NO	1.0388	1.000	33.30	1.001	1130		2.58	1130
13 2,3,4,6,7,8-HxCDF	3.82e5	1.23	NO	1.0202	1.000	33.95	1.000	1140		3.02	1140



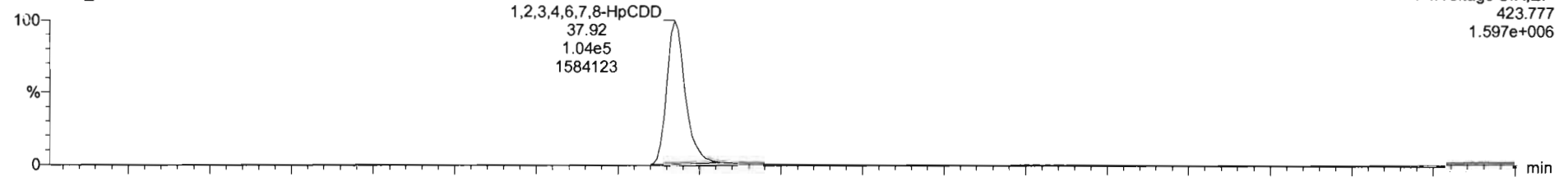
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Printed: Saturday, December 05, 2020 13:05:42 Pacific Standard Time

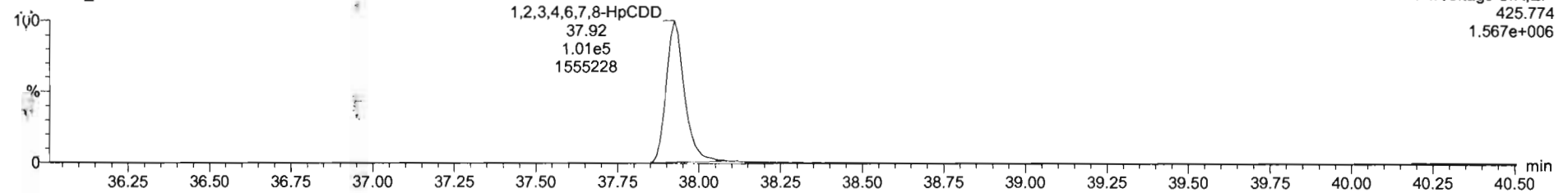
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1,2,3,4,6,7,8-HpCDD

201204R3_3

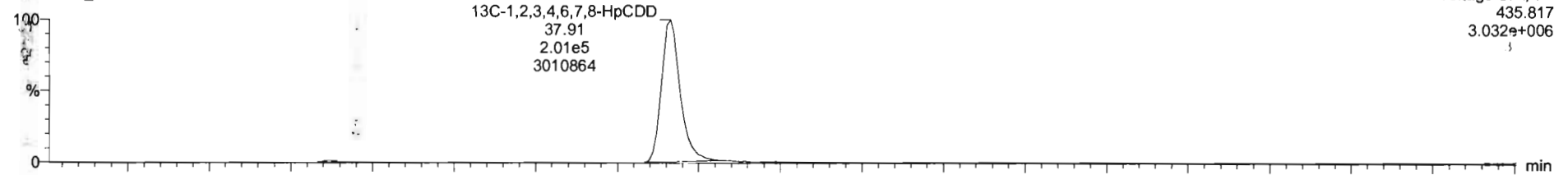


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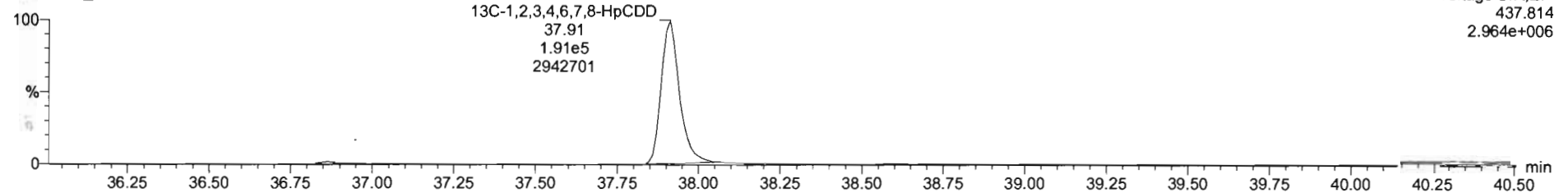


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201204R3_3



201204R3_3



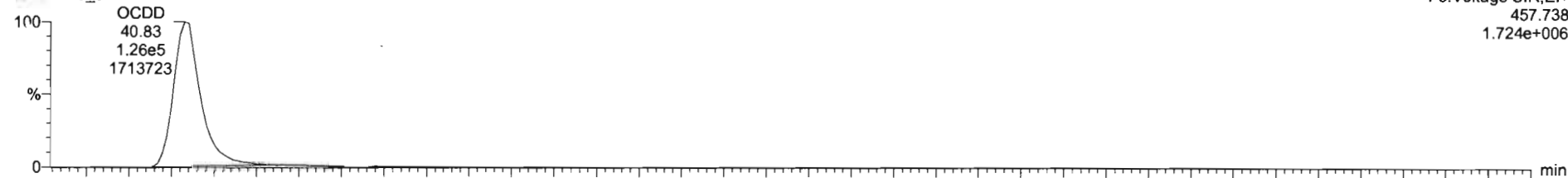
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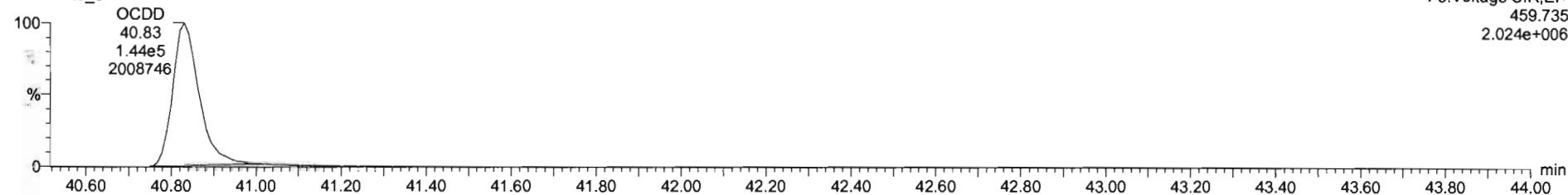
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OCDD

201204R3_3

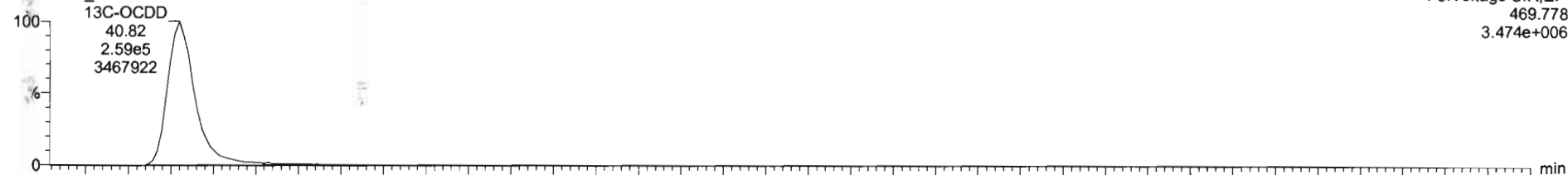


201204R3_3

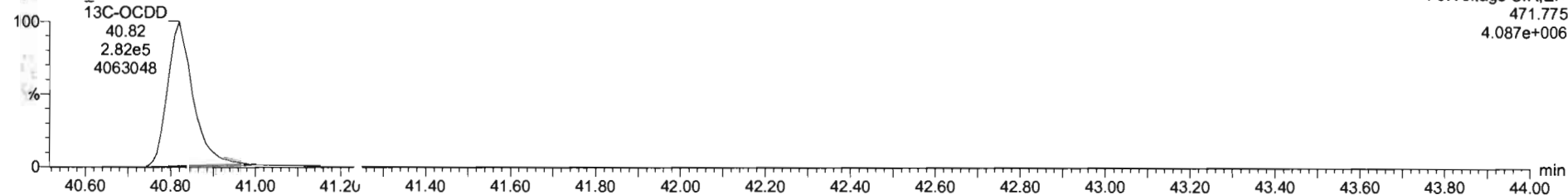


13C-OCDD

201204R3_3

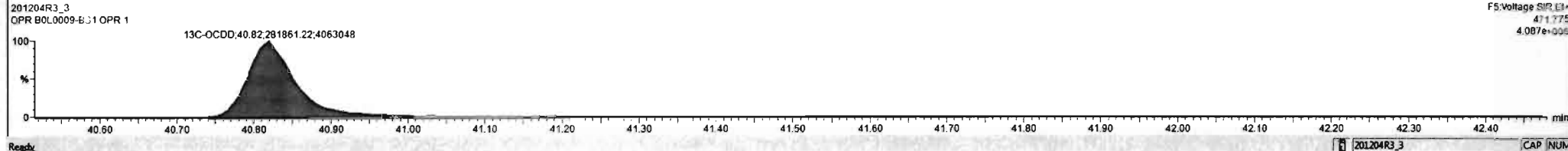
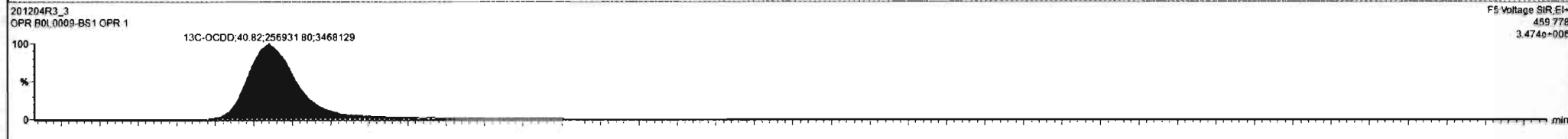
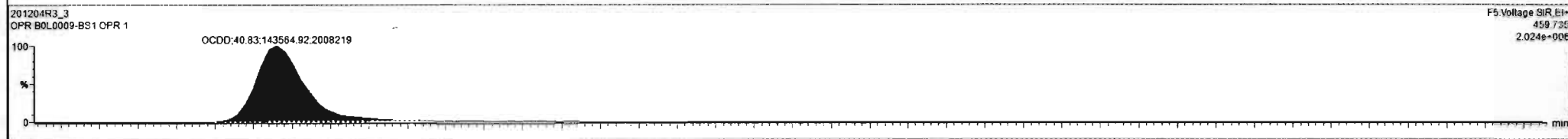
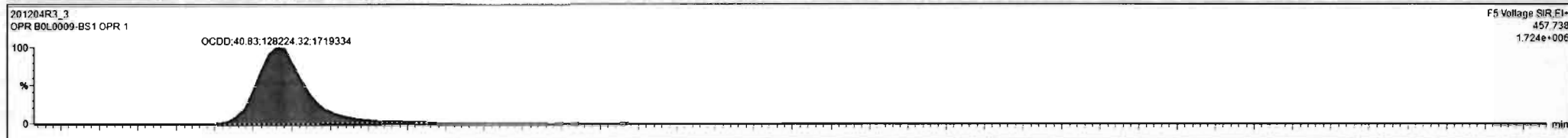


201204R3_3



201204R3_3 BOL0009-BS1 OPR 1 OPR

#	Name	Resp	RA	sy	RRF	wjvol	R	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.07e5	0.76	NO	0.9805	1.000	25.99	1.001	221		0.470	221
2	1,2,3,7,8-PeCDD	3.93e5	0.61	NO	0.9320	1.000	30.76	1.000	1140		1.04	1140
3	1,2,3,4,7,8-HxCDD	2.98e5	1.25	NO	1.0203	1.000	34.05	1.000	1170		2.55	1170
4	1,2,3,6,7,8-HxCDD	3.22e5	1.26	NO	0.9025	1.000	34.18	1.001	1190		2.63	1190
5	1,2,3,7,8,9-HxCDD	3.00e5	1.23	NO	0.9542	1.000	34.45	1.001	1150		2.95	1150
6	1,2,3,4,6,7,8-HpCDD	2.05e5	1.03	NO	0.9180	1.000	37.92	1.000	1140		4.78	1140
7	OCDD	2.72e5	0.89	NO	0.9658	1.000	40.83	1.000	2330		5.58	2330
8	2,3,7,8-TCDF	1.17e5	0.74	NO	0.8480	1.000	25.30	1.001	214		0.826	214
9	1,2,3,7,8-PeCDF	5.53e5	1.59	NO	0.9597	1.000	29.49	1.001	1110		2.75	1110
10	2,3,4,7,8-PeCDF	6.33e5	1.57	NO	1.0671	1.000	30.56	1.000	1140		2.19	1140
11	1,2,3,4,7,8-HxCDF	3.92e5	1.24	NO	0.9859	1.000	33.16	1.000	1150		2.77	1150
12	1,2,3,6,7,8-HxCDF	4.43e5	1.23	NO	1.0388	1.000	33.30	1.001	1130		2.56	1130
13	2,3,4,6,7,8-HxCDF	3.82e5	1.23	NO	1.0202	1.000	33.95	1.000	1140		3.02	1140



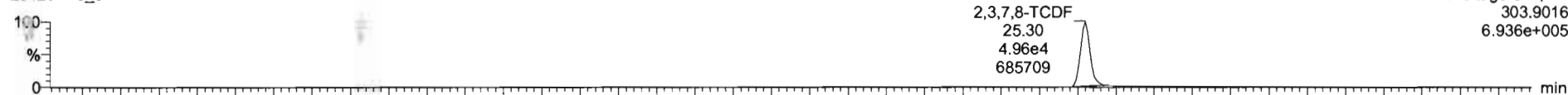
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Printed: Saturday, December 05, 2020 13:05:42 Pacific Standard Time

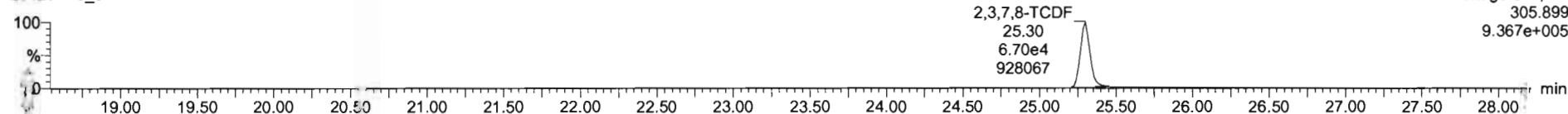
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2,3,7,8-TCDF

201204R3_3

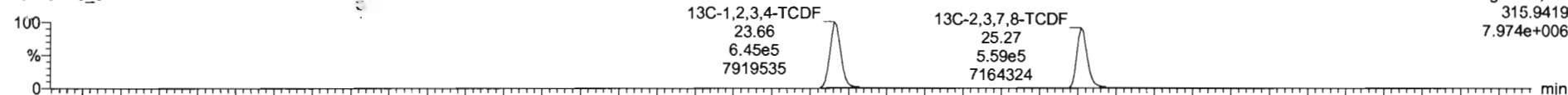


201204R3_3

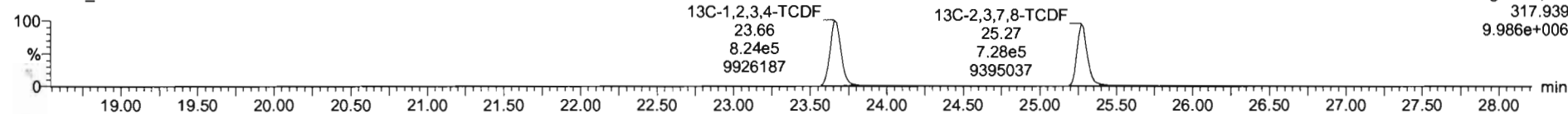


13C-2,3,7,8-TCDF

201204R3_3

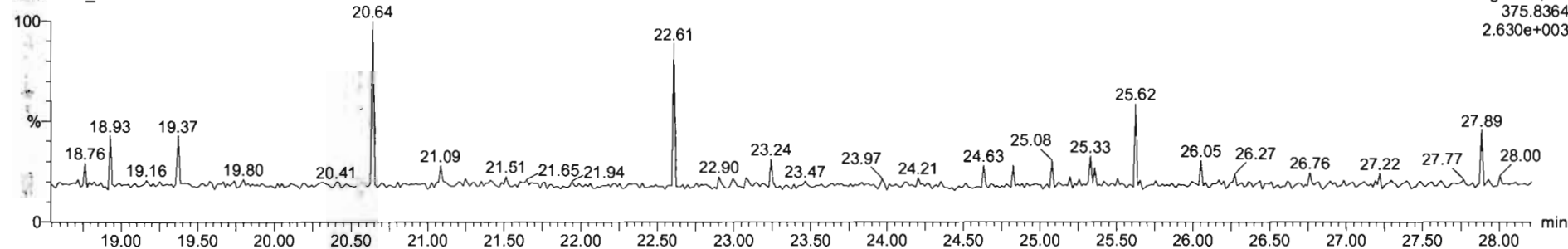


201204R3_3



DPE1

201204R3_3



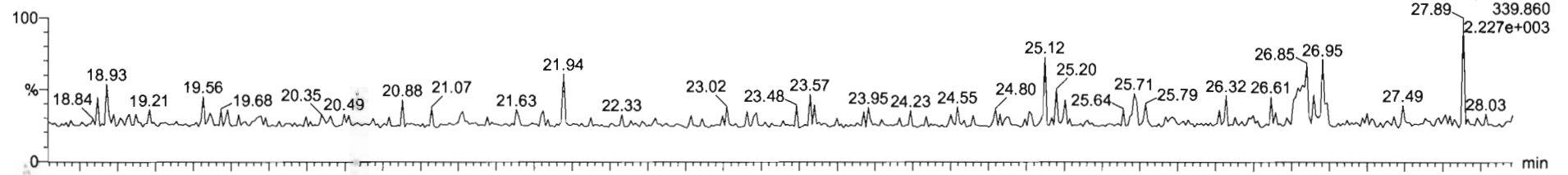
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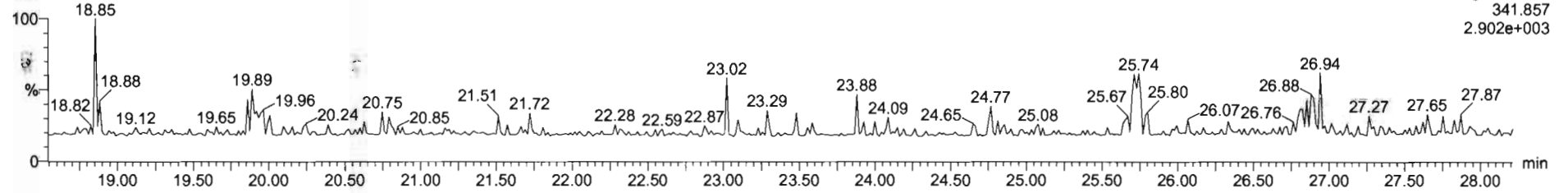
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1st Func. Penta-Furans

201204R3_3

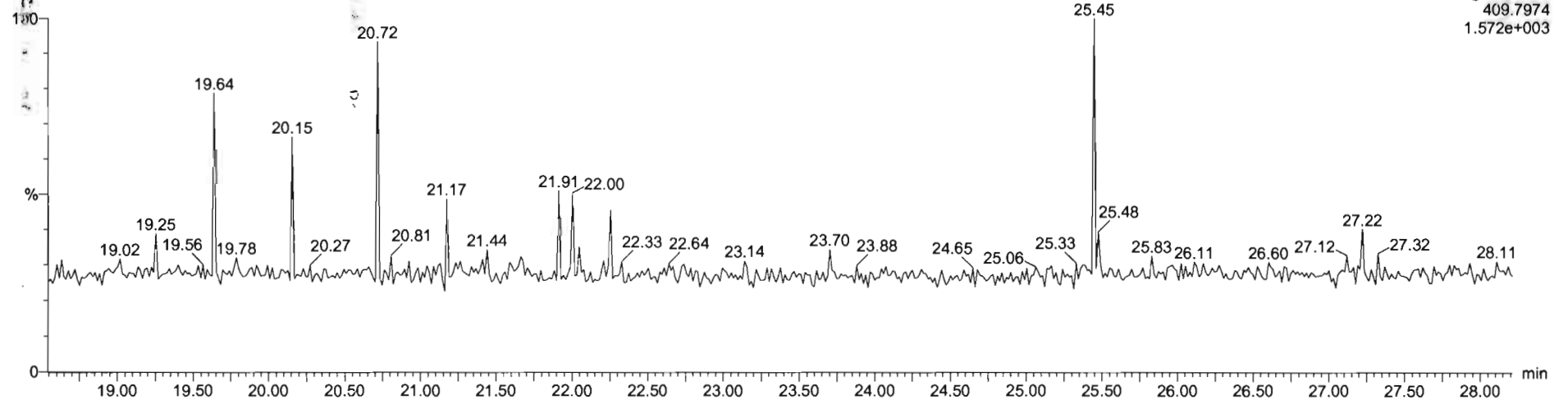


201204R3_3



DPE6

201204R3_3



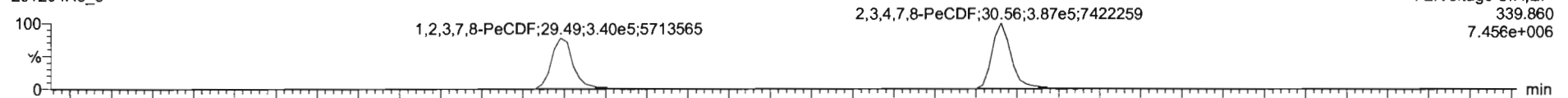
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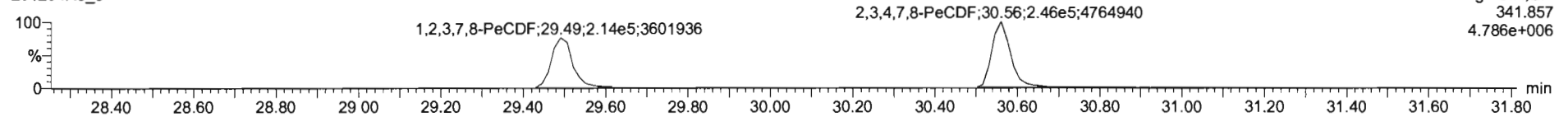
1,2,3,7,8-PeCDF

201204R3_3



F2:Voltage SIR,EI+
339.860
7.456e+006

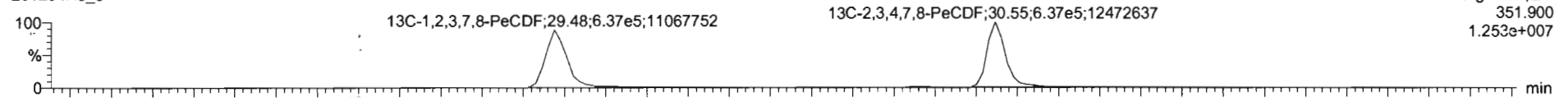
201204R3_3



F2:Voltage SIR,EI+
341.857
4.786e+006

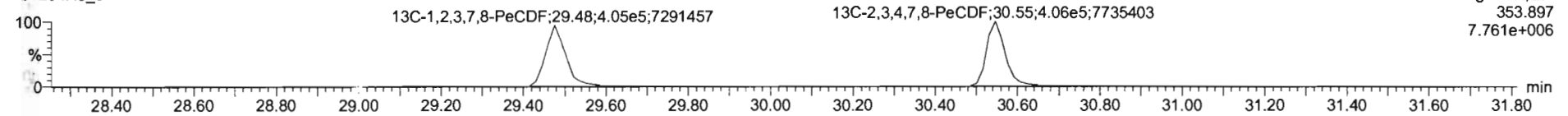
13C-1,2,3,7,8-PeCDF

201204R3_3



F2:Voltage SIR,EI+
351.900
1.253e+007

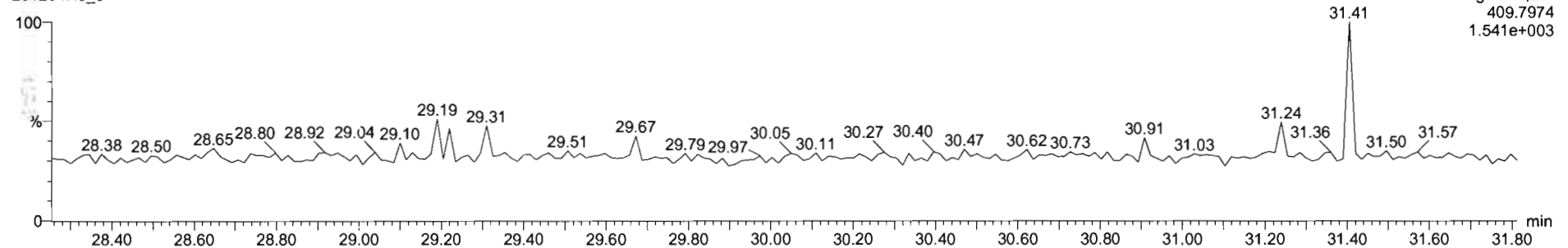
201204R3_3



F2:Voltage SIR,EI+
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DPE2

201204R3_3



F2:Voltage SIR,EI+
409.7974
1.541e+003

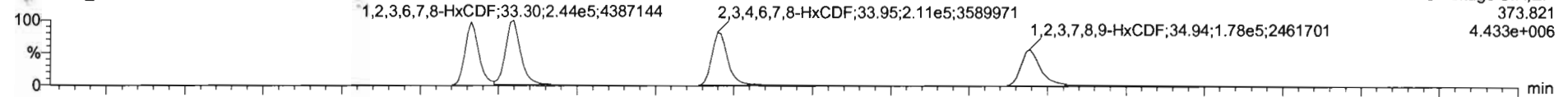
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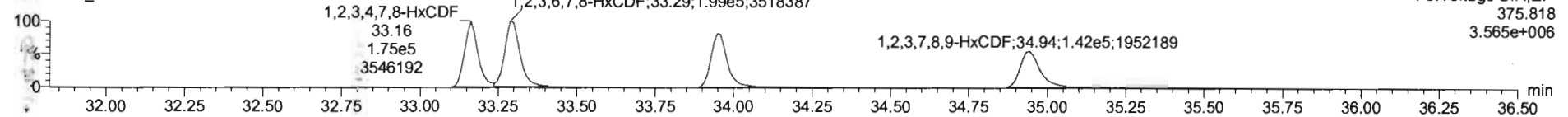
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1,2,3,4,7,8-HxCDF

201204R3_3

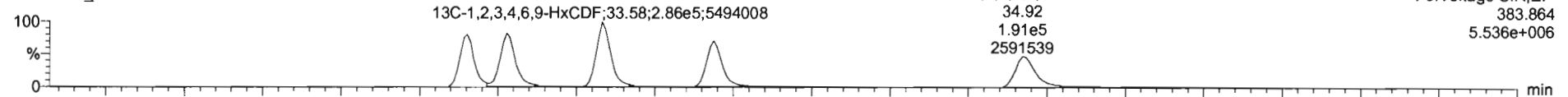


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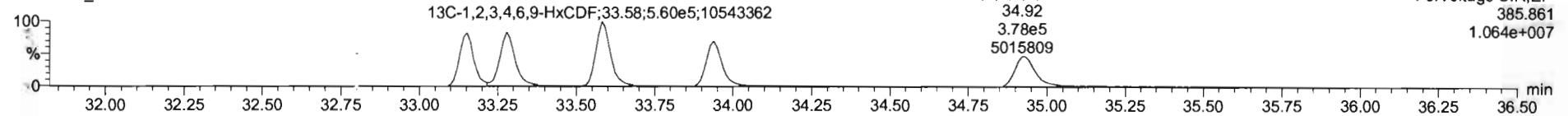


13C-1,2,3,4,7,8-HxCDF

201204R3_3

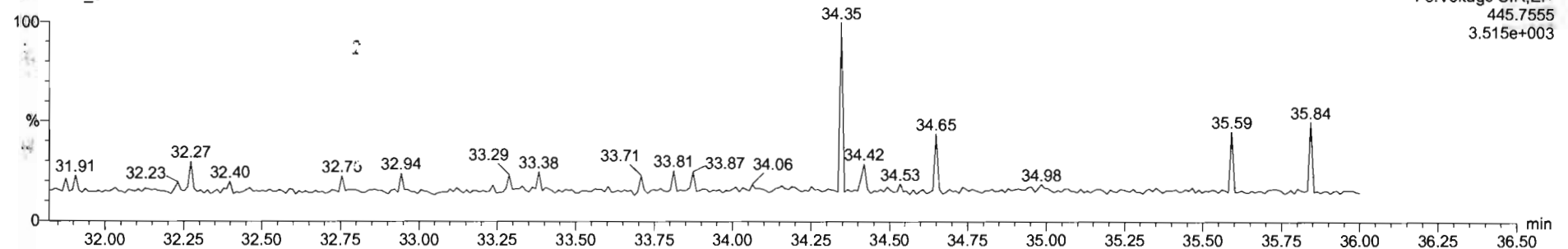


201204R3_3



DPE3

201204R3_3



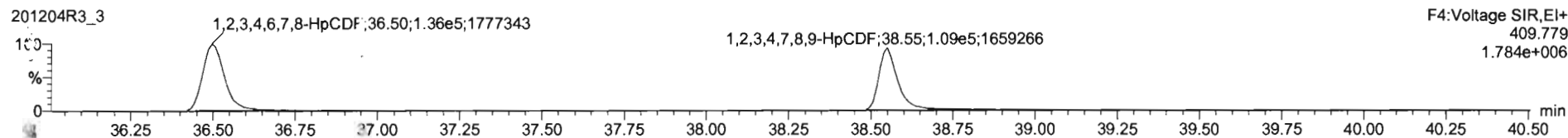
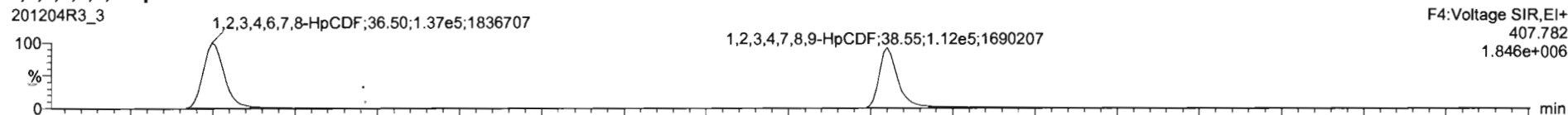
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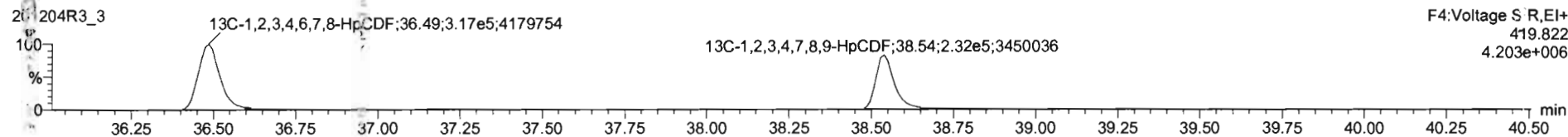
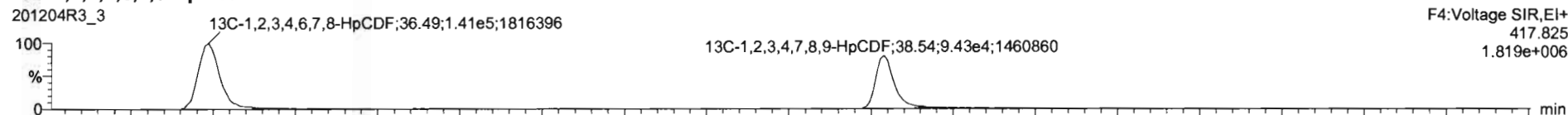
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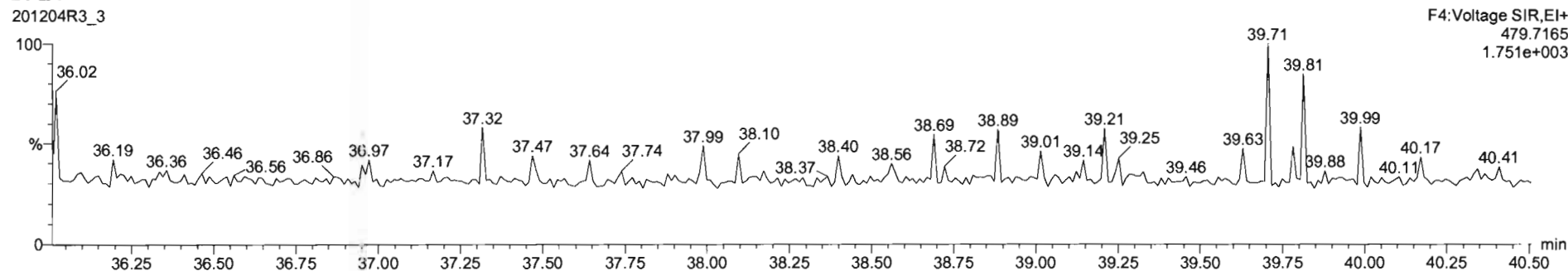
1,2,3,4,6,7,8-HpCDF



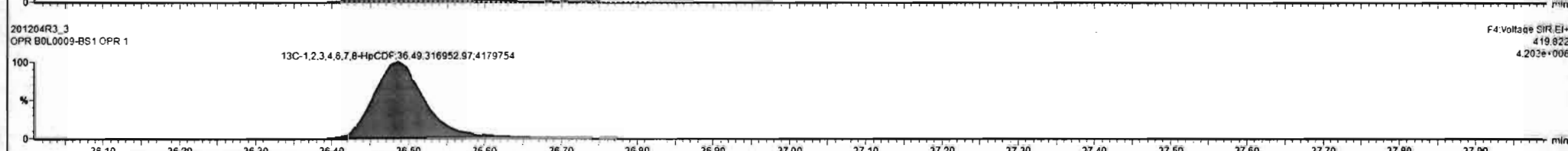
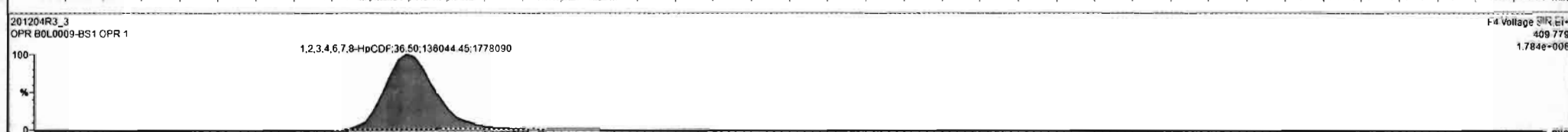
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DPE4

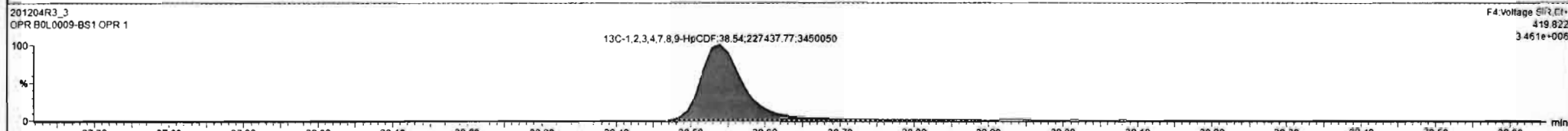
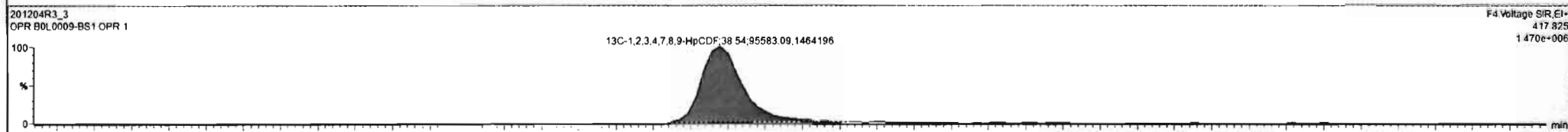
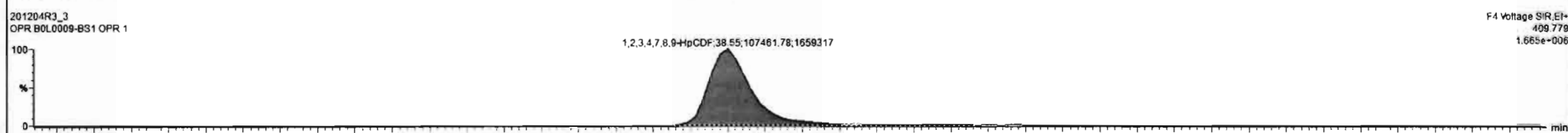
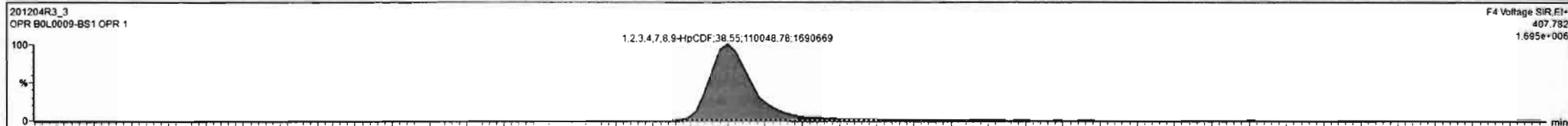


#	Name	Resp	RA	ndy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
15	1,2,3,4,6,7,8-HpCDF	2.73e5	1.01	NO	1.0492	1.000	36.50	1.000	1140		4.88	1140
16	1,2,3,4,7,8,9-HpCDF	2.21e5	1.02	NO	1.1759	1.000	38.55	1.000	1150		5.10	1150
17	OCDF	3.17e5	0.88	NO	0.8960	1.000	41.12	1.001	2300		3.78	2300
18	13C-2,3,7,8-TCDD	9.88e5	0.78	NO	1.0555	1.000	25.33	1.031	1930	96.3	1.92	
19	13C-1,2,3,7,8-PeCDD	7.36e5	0.63	NO	0.7847	1.000	30.74	1.220	1930	96.6	4.29	
20	13C-1,2,3,4,7,8-HxCDD	5.02e5	1.27	NO	0.6295	1.000	34.04	1.014	1910	95.5	4.66	
21	13C-1,2,3,6,7,8-HxCDD	5.97e5	1.24	NO	0.7340	1.000	34.16	1.017	1920	96.1	3.94	
22	13C-1,2,3,7,8,9-HxCDD	5.47e5	1.25	NO	0.7226	1.000	34.43	1.025	1790	89.5	4.00	
23	13C-1,2,3,4,6,7,8-HpCDD	3.92e5	1.05	NO	0.5677	1.000	37.91	1.129	1630	81.5	6.87	
24	13C-OCDD	5.39e5	0.91	NO	0.4958	1.000	40.32	1.216	2570	64.2	5.83	
25	13C-2,3,7,8-TCDF	1.29e6	0.77	NO	0.9190	1.000	25.27	1.003	1910	95.3	2.64	
26	13C-1,2,3,7,8-PeCDF	1.04e6	1.57	NO	0.7151	1.000	29.48	1.170	1960	99.2	7.64	
27	13C-2,3,4,7,8-PeCDF	1.04e6	1.57	NO	0.6885	1.000	30.55	1.212	2060	103	7.93	



201204R3_3 - BOL0009 BS1 OPR 1 - OPR

#	Name	Reap	RA	rvy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
15	1,2,3,4,6,7,8-HpCDF	2.73e5	1.01	NO	1.0492	1.000	36.50	1.000	1140		4.86	1140
16	1,2,3,4,7,8,9-HpCDF	2.18e5	1.02	NO	1.1759	1.000	38.55	1.000	1150		5.21	1150
17	OCDF	3.17e5	0.88	NO	0.8960	1.000	41.12	1.001	2300		3.78	2300
18	13C-2,3,7,8-TCDF	9.88e5	0.78	NO	1.0555	1.000	25.98	1.031	1930	96.3	1.92	
19	13C-1,2,3,7,8-PeCDD	7.36e5	0.63	NO	0.7847	1.000	30.74	1.220	1930	96.8	4.29	
20	13C-1,2,3,4,7,8-HxCDD	5.02e5	1.27	NO	0.8205	1.000	34.74	1.014	1910	95.5	4.86	
21	13C-1,2,3,6,7,8-HxCDD	5.97e5	1.24	NO	0.7340	1.000	34.16	1.017	1920	96.1	3.94	
22	13C-1,2,3,7,8,9-HxCDD	5.47e5	1.25	NO	0.7226	1.000	34.43	1.025	1790	89.5	4.00	
23	13C-1,2,3,4,6,7,8-HpCDO	3.92e5	1.05	NO	0.5677	1.000	37.91	1.129	1630	81.5	6.87	
24	13C-OCDD	5.39e5	0.91	NO	0.4958	1.000	40.82	1.216	2570	64.2	5.83	
25	13C-2,3,7,8-TCDF	1.29e6	0.77	NO	0.9190	1.000	25.27	1.003	1910	95.3	2.64	
26	13C-1,2,3,7,8-PeCDF	1.04e6	1.57	NO	0.7151	1.000	29.73	1.170	1980	99.2	7.64	
27	13C-2,3,4,7,8-PeCDF	1.04e6	1.57	NO	0.6885	1.000	36.55	1.212	2060	103	7.93	

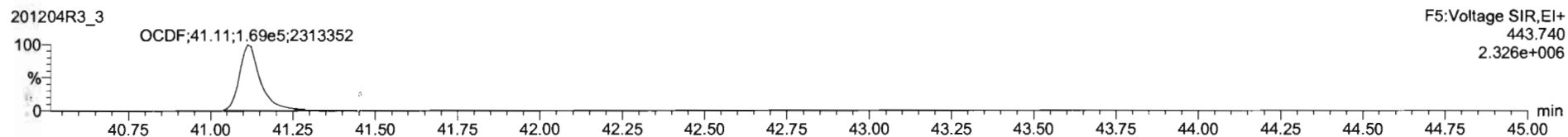
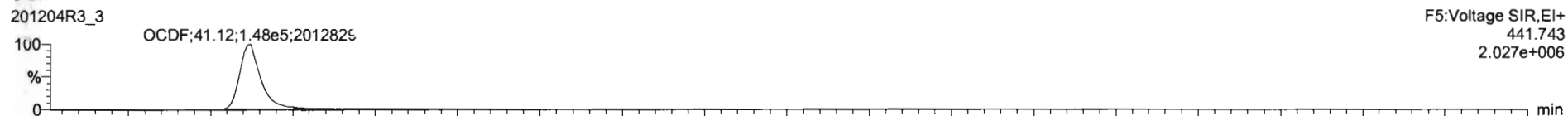


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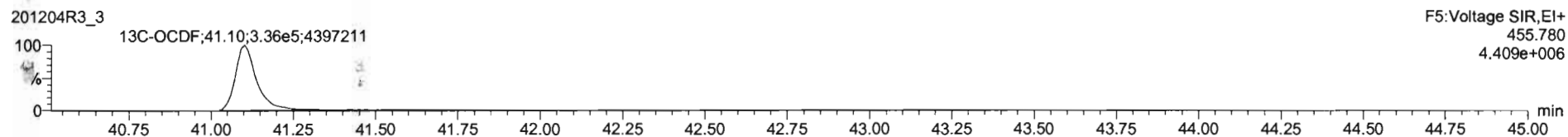
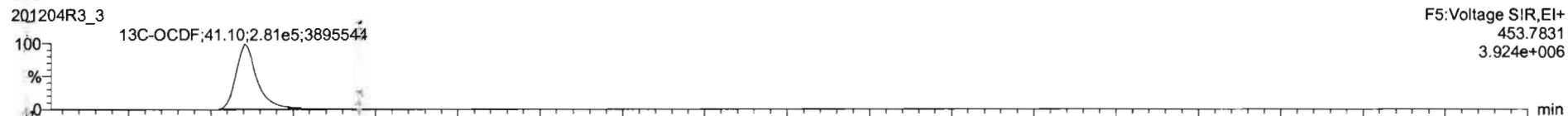
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Printed: Saturday, December 05, 2020 13:05:42 Pacific Standard Time

Name: 201204R3_3, Date: 04-Dec-2020, Time: 18:32:29, ID: B0L0009-BS1 OPR 1, Description: OPR

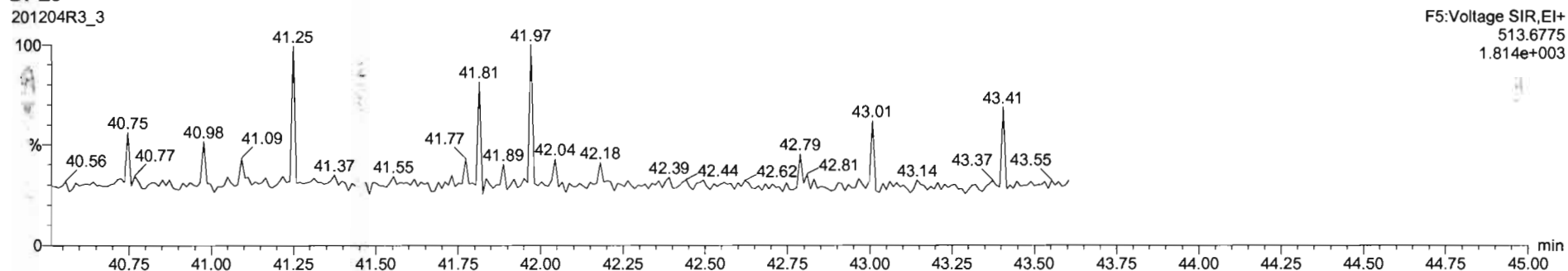
OCDF



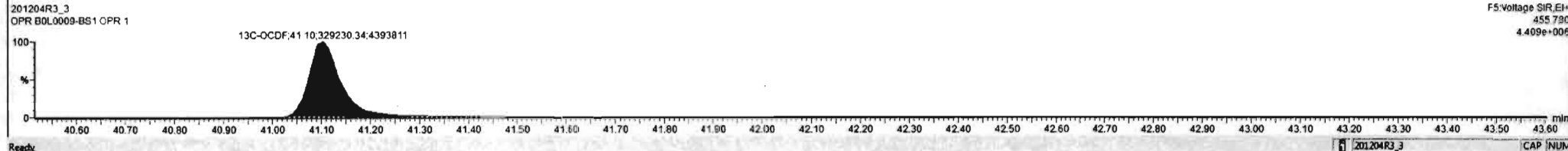
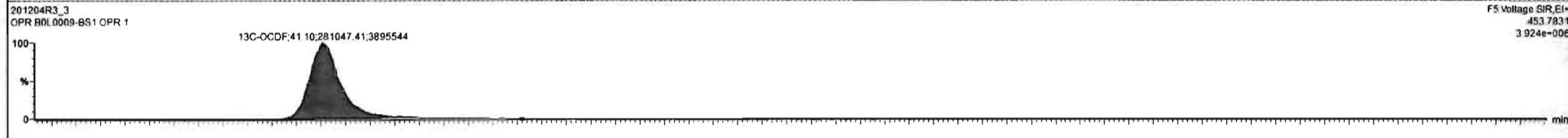
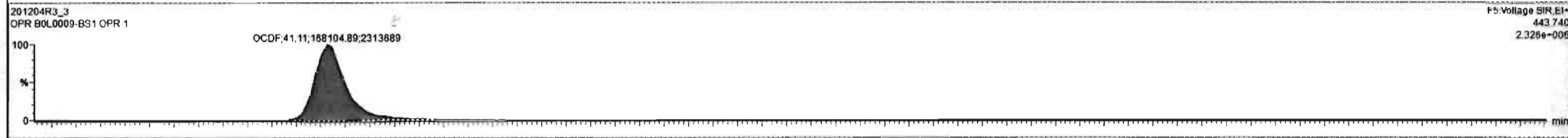
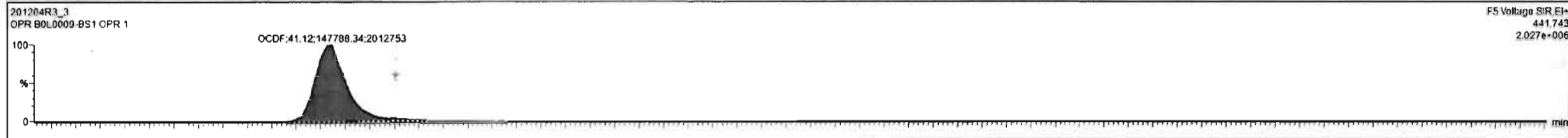
13C-OCDF



DPES



SI	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
15	1,2,3,4,6,7,8-HpCDF	2.73e5	1.01	NO	1.0492	1.000	36.50	1.000	1140		4.86	1140
16	1,2,3,4,7,8,9-HpCDF	2.18e5	1.02	NO	1.1759	1.000	38.55	1.000	1150		5.21	1150
17	OCDF	3.16e5	0.88	NO	0.8960	1.000	41.52	1.001	2310		3.80	2310
18	13C-2,3,7,8-TCDD	9.88e5	0.78	NO	1.0555	1.000	25.98	1.031	1930	96.3	1.92	
19	13C-1,2,3,7,8-PeCDD	7.36e5	0.63	NO	0.7847	1.000	30.74	1.220	1930	96.6	4.29	
20	13C-1,2,3,4,7,8-HxCDD	5.02e5	1.27	NO	0.6205	1.000	34.04	1.014	1910	95.5	4.66	
21	13C-1,2,3,6,7,8-HxCDD	5.97e5	1.24	NO	0.7340	1.000	34.16	1.017	1920	96.1	3.94	
22	13C-1,2,3,7,8,9-HxCDD	5.47e5	1.25	NO	0.7226	1.000	34.43	1.025	1790	89.5	4.00	
23	13C-1,2,3,4,6,7,8-HpCDD	3.92e5	1.05	NO	0.5677	1.000	37.91	1.129	1630	81.5	6.67	
24	13C-OCDD	5.38e5	0.91	NO	0.4958	1.000	40.82	1.216	2570	84.2	5.83	
25	13C-2,3,7,8-TCDF	1.29e6	0.77	NO	0.9190	1.000	25.27	1.003	1910	95.3	2.64	
26	13C-1,2,3,7,8-PeCDF	1.04e6	1.57	NO	0.7151	1.000	29.48	1.170	1980	99.2	7.64	
27	13C-2,3,4,7,8-PeCDF	1.04e6	1.57	NO	0.6885	1.000	30.55	1.212	2050	103	7.93	

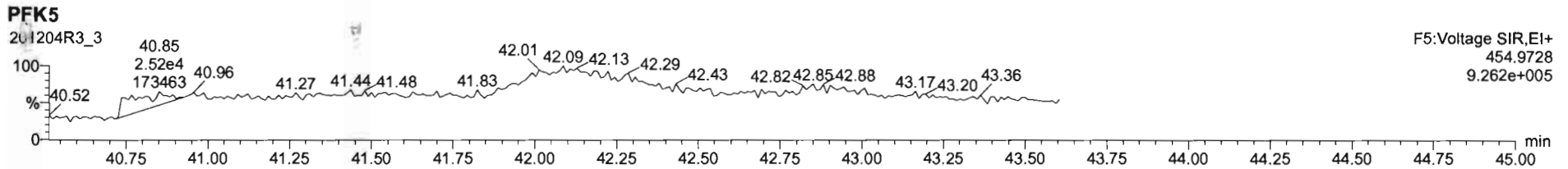
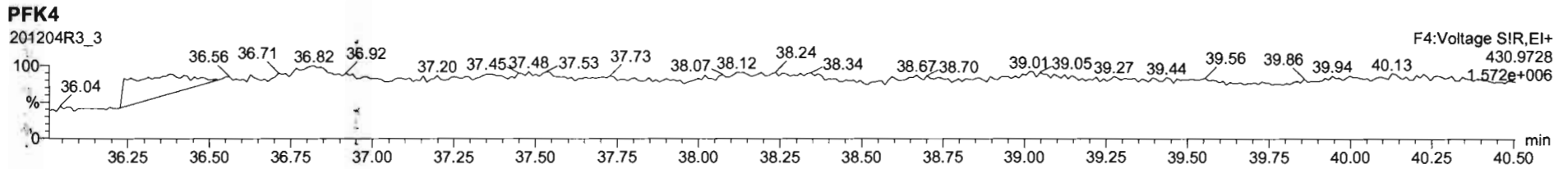
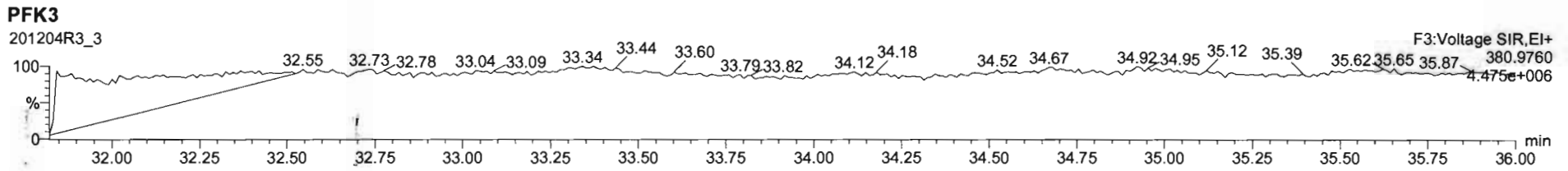
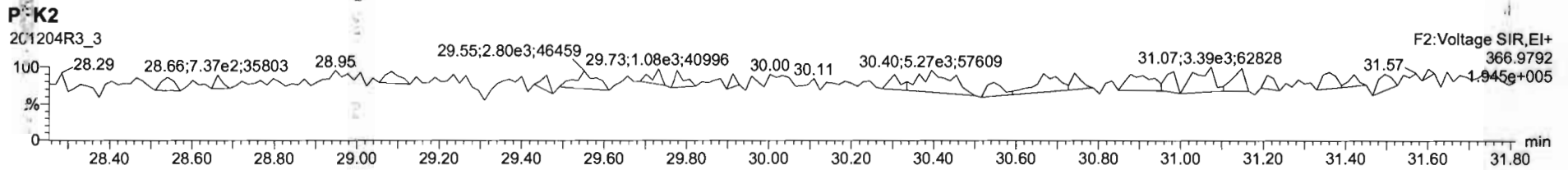
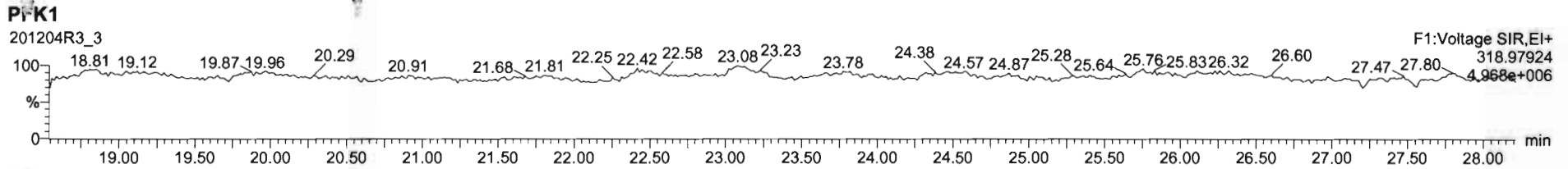


Dataset: Untitled

Last Altered: Saturday, December 05, 2020 13:05:03 Pacific Standard Time

Printed: Saturday, December 05, 2020 13:05:42 Pacific Standard Time

Name: 201204R3_3, Date: 04-Dec-2020, Time: 18:32:29, ID: B0L0009-BS1 OPR 1, Description: OPR



Dataset: U:\VG12.PRO\Results\201126R1\201126R1-6.qld

Last Altered: Wednesday, December 02, 2020 11:19:43 AM Pacific Standard Time
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HN 12/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

CT 12/09/2020

Name: 201126R1_6, Date: 26-Nov-2020, Time: 12:21:08, ID: 2002375-01 USMPDI-045SC-A-01-02-201030 19.72, Description: USMPDI-045SC-A-01-02-201030

#	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	1.60e3	0.58	YES	0.950	10.018	26.068	26.05	1.001	1.001	0.54423		0.129	0.461
2	2 1,2,3,7,8-PeCDD	1.69e3	0.59	NO	0.885	10.018	30.800	30.79	1.000	1.000	0.91070		0.199	0.911
3	3 1,2,3,4,7,8-HxCDD	1.87e3	1.23	NO	1.02	10.018	34.121	34.12	1.000	1.000	0.97177		0.368	0.972
4	4 1,2,3,6,7,8-HxCDD	1.22e4	1.22	NO	0.915	10.018	34.239	34.24	1.000	1.000	6.0394		0.363	6.04
5	5 1,2,3,7,8,9-HxCDD	5.38e3	1.14	NO	0.934	10.018	34.516	34.52	1.000	1.000	2.6288		0.391	2.63
6	6 1,2,3,4,6,7,8-HpCDD	1.82e5	1.02	NO	0.870	10.018	38.006	38.02	1.000	1.000	117.45		1.48	117
7	7 OCDD	1.46e6	0.88	NO	0.872	10.018	40.963	40.97	1.000	1.000	1216.6		1.00	1220
8	8 2,3,7,8-TCDF	9.90e4	0.74	NO	0.824	10.018	25.367	25.37	1.000	1.001	23.965		0.108	24.0
9	9 1,2,3,7,8-PeCDF	1.93e5	1.58	NO	0.963	10.018	29.525	29.53	1.000	1.001	47.856		0.271	47.9
10	10 2,3,4,7,8-PeCDF	1.49e5	1.61	NO	1.07	10.018	30.587	30.60	1.000	1.000	33.622		0.252	33.6
11	11 1,2,3,4,7,8-HxCDF	9.90e4	1.21	NO	0.953	10.018	33.206	33.22	1.000	1.000	38.765		0.258	38.8
12	12 1,2,3,6,7,8-HxCDF	2.87e4	1.19	NO	1.01	10.018	33.334	33.34	1.000	1.000	10.267		0.239	10.3
13	13 2,3,4,6,7,8-HxCDF	1.11e4	1.20	NO	0.991	10.018	34.008	34.03	1.000	1.001	4.3459		0.288	4.35
14	14 1,2,3,7,8,9-HxCDF	5.38e3	1.20	NO	0.951	10.018	34.995	35.03	1.000	1.001	2.5396		0.413	2.54
15	15 1,2,3,4,6,7,8-HpCDF	3.90e4	0.97	NO	0.999	10.018	36.583	36.59	1.000	1.000	20.676		0.297	20.7
16	16 1,2,3,4,7,8,9-HpCDF	6.76e3	0.99	NO	1.12	10.018	38.624	38.63	1.000	1.000	4.1369		0.303	4.14
17	17 OCDF	6.37e4	0.84	NO	0.868	10.018	41.248	41.25	1.000	1.000	46.911		0.389	46.9
18	18 13C-2,3,7,8-TCDD	6.16e5	0.81	NO	1.11	10.018	26.044	26.04	1.030	1.030	185.81	93.1	0.282	
19	19 13C-1,2,3,7,8-PeCDD	4.18e5	0.66	NO	0.859	10.018	30.757	30.79	1.216	1.218	162.88	81.6	0.410	
20	20 13C-1,2,3,4,7,8-HxCDD	3.77e5	1.32	NO	0.700	10.018	34.111	34.11	1.014	1.014	167.08	83.7	0.511	
21	21 13C-1,2,3,6,7,8-HxCDD	4.43e5	1.34	NO	0.833	10.018	34.249	34.23	1.018	1.017	164.80	82.5	0.430	
22	22 13C-1,2,3,7,8,9-HxCDD	4.37e5	1.32	NO	0.762	10.018	34.491	34.51	1.025	1.026	178.07	89.2	0.470	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.56e5	1.05	NO	0.650	10.018	37.973	38.01	1.129	1.130	169.89	85.1	0.867	
24	24 13C-OCDD	5.49e5	0.91	NO	0.539	10.018	40.937	40.96	1.217	1.218	315.61	79.0	0.722	
25	25 13C-2,3,7,8-TCDF	1.00e6	0.79	NO	0.981	10.018	25.366	25.36	1.003	1.003	174.88	87.6	0.321	
26	26 13C-1,2,3,7,8-PeCDF	8.38e5	1.62	NO	0.792	10.018	29.490	29.52	1.166	1.167	181.54	90.9	0.593	
27	27 13C-2,3,4,7,8-PeCDF	8.27e5	1.65	NO	0.778	10.018	30.547	30.59	1.208	1.210	182.30	91.3	0.603	
28	28 13C-1,2,3,4,7,8-HxCDF	5.35e5	0.51	NO	0.954	10.018	33.202	33.21	0.987	0.987	173.96	87.1	0.573	
29	29 13C-1,2,3,6,7,8-HxCDF	5.54e5	0.51	NO	1.01	10.018	33.333	33.33	0.991	0.991	170.87	85.6	0.543	
30	30 13C-2,3,4,6,7,8-HxCDF	5.15e5	0.50	NO	0.921	10.018	34.003	34.01	1.011	1.011	173.54	86.9	0.594	
31	31 13C-1,2,3,7,8,9-HxCDF	4.45e5	0.49	NO	0.803	10.018	34.999	34.99	1.040	1.040	171.87	86.1	0.681	

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-6.qld

Last Altered: Wednesday, December 02, 2020 11:19:43 AM Pacific Standard Time

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Name: 201126R1_6, Date: 26-Nov-2020, Time: 12:21:08, ID: 2002375-01 USMPDI-045SC-A-01-02-201030 19.72, Description: USMPDI-045SC-A-01-02-201030

#	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	3.77e5	0.41	NO	0.735	10.018	36.567	36.58	1.087	1.087	158.86	79.6	0.708	
33	13C-1,2,3,4,7,8,9-HpCDF	2.90e5	0.42	NO	0.568	10.018	38.602	38.62	1.147	1.148	158.64	79.5	0.917	
34	13C-OCDF	6.25e5	0.86	NO	0.629	10.018	41.219	41.24	1.225	1.226	307.80	77.1	0.581	
35	37Cl-2,3,7,8-TCDD	2.99e5			1.09	10.018	26.044	26.07	1.030	1.031	91.893	115	0.0785	
36	13C-1,2,3,4-TCDD	5.97e5	0.83	NO	1.00	10.018	25.370	25.28	1.000	1.000	199.64	100	0.313	
37	13C-1,2,3,4-TCDF	1.16e6	0.79	NO	1.00	10.018	23.870	23.78	1.000	1.000	199.64	100	0.315	
38	13C-1,2,3,4,6,9-HxCDF	6.44e5	0.51	NO	1.00	10.018	33.710	33.64	1.000	1.000	199.64	100	0.547	
39	Total Tetra-Dioxins				0.950	10.018	24.620		0.000		1.9738		0.129	2.82
40	Total Penta-Dioxins				0.885	10.018	29.960		0.000		6.2978		0.199	7.66
41	Total Hexa-Dioxins				0.915	10.018	33.635		0.000		49.772		0.390	50.4
42	Total Hepta-Dioxins				0.870	10.018	37.640		0.000		260.11		1.48	260
43	Total Tetra-Furans				0.824	10.018	23.610		0.000		77.281		0.108	78.3
44	1st Func. Penta-Furans				0.963	10.018	26.930		0.000		5.0561		0.0221	5.06
45	Total Penta-Furans				0.963	10.018	29.275		0.000		146.38		0.275	146
46	Total Hexa-Furans				0.991	10.018	33.555		0.000		87.648		0.289	87.9
47	Total Hepta-Furans				0.999	10.018	37.835		0.000		52.220		0.316	52.2

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-6.qld

Last Altered: Wednesday, December 02, 2020 11:19:43 AM 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\1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_6, Date: 26-Nov-2020, Time: 12:21:08, ID: 2002375-01 USMPDI-045SC-A-01-02-201030 19.72, Description: USMPDI-045SC-A-01-02-201030

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.24	1.160e4	1.454e4	1.090e3	1.444e3	0.75	NO	2.534e3	0.86409	0.86409	0.129
2	Total Tetra-Dioxins	22.59	7.888e3	6.475e3	5.870e2	6.372e2	0.92	YES	0.000e0	0.00000	0.38460	0.129
3	Total Tetra-Dioxins	23.14	4.922e3	4.725e3	3.423e2	3.963e2	0.86	NO	7.386e2	0.25188	0.25188	0.129
4	Total Tetra-Dioxins	25.79	2.168e4	1.999e4	1.169e3	1.347e3	0.87	NO	2.515e3	0.85781	0.85781	0.129
5	2,3,7,8-TCDD	26.05	8.719e3	1.526e4	5.880e2	1.008e3	0.58	YES	1.596e3	0.00000	0.46089	0.129

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.54	2.308e4	2.937e4	1.568e3	2.342e3	0.67	NO	3.910e3	2.1082	2.1082	0.199
2	Total Penta-Dioxins	29.01	6.982e3	1.283e4	3.585e2	6.516e2	0.55	NO	1.010e3	0.54462	0.54462	0.199
3	Total Penta-Dioxins	29.53	1.484e4	2.989e4	8.825e2	1.333e3	0.66	NO	2.215e3	1.1943	1.1943	0.199
4	Total Penta-Dioxins	29.72	1.985e4	2.558e4	1.309e3	1.555e3	0.84	YES	0.000e0	0.00000	1.3664	0.199
5	Total Penta-Dioxins	30.00	1.538e4	1.973e4	9.604e2	1.333e3	0.72	NO	2.293e3	1.2364	1.2364	0.199
6	1,2,3,7,8-PeCDD	30.79	8.347e3	1.928e4	6.246e2	1.065e3	0.59	NO	1.689e3	0.91070	0.91070	0.199
7	Total Penta-Dioxins	30.87	3.554e3	7.502e3	2.106e2	3.525e2	0.60	NO	5.632e2	0.30363	0.30363	0.199

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.49	2.702e5	2.249e5	1.525e4	1.227e4	1.24	NO	2.752e4	14.340	14.340	0.390
2	Total Hexa-Dioxins	33.09	2.895e4	2.318e4	1.691e3	1.443e3	1.17	NO	3.134e3	1.6328	1.6328	0.390
3	Total Hexa-Dioxins	33.38	3.181e5	2.706e5	2.424e4	1.984e4	1.22	NO	4.408e4	22.965	22.965	0.390
4	Total Hexa-Dioxins	33.46	2.610e4	2.147e4	1.315e3	9.790e2	1.34	NO	2.294e3	1.1953	1.1953	0.390
5	1,2,3,4,7,8-HxCDD	34.12	1.652e4	1.281e4	1.032e3	8.355e2	1.23	NO	1.867e3	0.97177	0.97177	0.368
6	1,2,3,6,7,8-HxCDD	34.24	9.412e4	7.522e4	6.717e3	5.526e3	1.22	NO	1.224e4	6.0394	6.0394	0.363
7	Total Hexa-Dioxins	34.40	1.078e4	1.004e4	6.870e2	6.784e2	1.01	YES	0.000e0	0.00000	0.64664	0.390
8	1,2,3,7,8,9-HxCDD	34.52	3.556e4	3.024e4	2.864e3	2.519e3	1.14	NO	5.382e3	2.6288	2.6288	0.391

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-6.qld

Last Altered: Wednesday, December 02, 2020 11:19:43 AM Pacific Standard Time

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Name: 201126R1_6, Date: 26-Nov-2020, Time: 12:21:08, ID: 2002375-01 USMPDI-045SC-A-01-02-201030 19.72, Description: USMPDI-045SC-A-01-02-201030

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.97	1.189e6	1.136e6	1.119e5	1.093e5	1.02	NO	2.212e5	142.66	142.66	1.48
2	1,2,3,4,6,7,8-HpCDD	38.02	1.125e6	1.137e6	9.179e4	9.028e4	1.02	NO	1.821e5	117.45	117.45	1.48

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.55	8.435e3	1.235e4	8.232e2	9.676e2	0.85	NO	1.791e3	0.43342	0.43342	0.108
2	Total Tetra-Furans	21.35	3.671e4	4.407e4	3.236e3	4.402e3	0.74	NO	7.638e3	1.8486	1.8486	0.108
3	Total Tetra-Furans	21.74	6.550e3	7.414e3	3.516e2	4.439e2	0.79	NO	7.955e2	0.19252	0.19252	0.108
4	Total Tetra-Furans	21.83	2.349e4	3.187e4	2.158e3	3.129e3	0.69	NO	5.286e3	1.2794	1.2794	0.108
5	Total Tetra-Furans	21.90	9.096e3	1.077e4	4.624e2	7.722e2	0.60	YES	0.000e0	0.00000	0.25725	0.108
6	Total Tetra-Furans	22.18	1.681e4	2.311e4	1.255e3	1.410e3	0.89	YES	0.000e0	0.00000	0.60411	0.108
7	Total Tetra-Furans	22.28	1.218e5	1.778e5	1.195e4	1.627e4	0.73	NO	2.823e4	6.8313	6.8313	0.108
8	Total Tetra-Furans	22.76	4.509e4	5.672e4	3.737e3	5.061e3	0.74	NO	8.798e3	2.1294	2.1294	0.108
9	Total Tetra-Furans	22.90	7.124e3	1.317e4	4.762e2	6.945e2	0.69	NO	1.171e3	0.28334	0.28334	0.108
10	Total Tetra-Furans	23.10	2.115e4	2.849e4	1.580e3	2.258e3	0.70	NO	3.838e3	0.92893	0.92893	0.108
11	Total Tetra-Furans	23.54	3.391e3	4.000e3	2.614e2	3.261e2	0.80	NO	5.875e2	0.14218	0.14218	0.108
12	Total Tetra-Furans	23.64	6.082e3	8.870e3	3.945e2	5.856e2	0.67	NO	9.802e2	0.23722	0.23722	0.108
13	Total Tetra-Furans	23.88	5.864e4	7.784e4	6.133e3	8.187e3	0.75	NO	1.432e4	3.4656	3.4656	0.108
14	Total Tetra-Furans	24.35	6.804e5	9.435e5	5.149e4	7.001e4	0.74	NO	1.215e5	29.406	29.406	0.108
15	Total Tetra-Furans	24.68	2.051e4	2.157e4	1.277e3	1.579e3	0.81	NO	2.856e3	0.69110	0.69110	0.108
16	Total Tetra-Furans	25.24	4.328e4	5.729e4	2.802e3	3.849e3	0.73	NO	6.650e3	1.6096	1.6096	0.108
17	2,3,7,8-TCDF	25.37	6.287e5	8.291e5	4.199e4	5.703e4	0.74	NO	9.902e4	23.965	23.965	0.108
18	Total Tetra-Furans	25.62	1.010e4	1.076e4	6.836e2	9.567e2	0.71	NO	1.640e3	0.39698	0.39698	0.108
19	Total Tetra-Furans	25.70	1.482e4	2.338e4	1.059e3	1.449e3	0.73	NO	2.508e3	0.60707	0.60707	0.108
20	Total Tetra-Furans	25.95	5.899e3	9.098e3	3.393e2	4.300e2	0.79	NO	7.692e2	0.18617	0.18617	0.108
21	Total Tetra-Furans	26.90	9.063e3	1.260e4	5.575e2	7.780e2	0.72	NO	1.335e3	0.32321	0.32321	0.108
22	Total Tetra-Furans	27.12	1.449e4	7.149e3	8.267e2	4.076e2	2.03	YES	0.000e0	0.00000	0.17461	0.108
23	Total Tetra-Furans	27.28	6.198e4	9.027e4	4.154e3	5.446e3	0.76	NO	9.600e3	2.3234	2.3234	0.108

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-6.qld

Last Altered: Wednesday, December 02, 2020 11:19:43 AM Pacific Standard Time

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Name: 201126R1_6, Date: 26-Nov-2020, Time: 12:21:08, ID: 2002375-01 USMPDI-045SC-A-01-02-201030 19.72, Description: USMPDI-045SC-A-01-02-201030

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	26.90	2.071e5	1.212e5	1.283e4	7.459e3	1.72	NO	2.029e4	5.0561	5.0561	0.0221

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.38	4.624e4	3.262e4	3.940e3	2.615e3	1.51	NO	6.555e3	1.6332	1.6332	0.275
2	Total Penta-Furans	28.54	1.107e6	6.984e5	6.609e4	4.124e4	1.60	NO	1.073e5	26.743	26.743	0.275
3	Total Penta-Furans	29.17	7.568e4	4.607e4	4.696e3	2.931e3	1.60	NO	7.627e3	1.9005	1.9005	0.275
4	Total Penta-Furans	29.33	3.647e5	2.123e5	1.980e4	1.228e4	1.61	NO	3.207e4	7.9915	7.9915	0.275
5	1,2,3,7,8-PeCDF	29.53	2.149e6	1.411e6	1.183e5	7.505e4	1.58	NO	1.934e5	47.856	47.856	0.271
6	Total Penta-Furans	29.78	1.248e6	8.022e5	6.549e4	4.140e4	1.58	NO	1.069e5	26.633	26.633	0.275
7	2,3,4,7,8-PeCDF	30.60	1.593e6	1.020e6	9.176e4	5.699e4	1.61	NO	1.488e5	33.622	33.622	0.252

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.96	9.065e4	7.633e4	4.767e3	4.012e3	1.19	NO	8.779e3	3.4521	3.4521	0.289
2	Total Hexa-Furans	32.12	3.138e5	2.510e5	1.748e4	1.421e4	1.23	NO	3.169e4	12.462	12.462	0.289
3	Total Hexa-Furans	32.54	6.659e3	6.784e3	3.556e2	2.344e2	1.52	YES	0.000e0	0.00000	0.20648	0.289
4	Total Hexa-Furans	32.75	2.914e5	2.296e5	1.593e4	1.297e4	1.23	NO	2.891e4	11.366	11.366	0.289
5	Total Hexa-Furans	33.10	1.847e4	1.873e4	1.075e3	1.002e3	1.07	NO	2.077e3	0.81664	0.81664	0.289
6	1,2,3,4,7,8-HxCDF	33.22	8.833e5	7.462e5	5.414e4	4.491e4	1.21	NO	9.905e4	38.765	38.765	0.258
7	1,2,3,6,7,8-HxCDF	33.34	2.382e5	1.912e5	1.563e4	1.310e4	1.19	NO	2.873e4	10.267	10.267	0.239
8	2,3,4,6,7,8-HxCDF	34.03	8.471e4	7.187e4	6.059e3	5.056e3	1.20	NO	1.112e4	4.3459	4.3459	0.288
9	1,2,3,7,8,9-HxCDF	35.03	8.965e4	7.174e4	2.939e3	2.445e3	1.20	NO	5.384e3	2.5396	2.5396	0.413
10	Total Hexa-Furans	35.05	9.785e4	8.142e4	5.211e3	4.034e3	1.29	NO	9.245e3	3.6353	3.6353	0.289

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.59	2.199e5	2.246e5	1.915e4	1.981e4	0.97	NO	3.896e4	20.676	20.676	0.297
2	Total Hepta-Furans	37.31	2.496e5	2.532e5	2.280e4	2.292e4	0.99	NO	4.573e4	27.407	27.407	0.316
3	1,2,3,4,7,8,9-HpCDF	38.63	4.290e4	4.279e4	3.359e3	3.403e3	0.99	NO	6.762e3	4.1369	4.1369	0.303

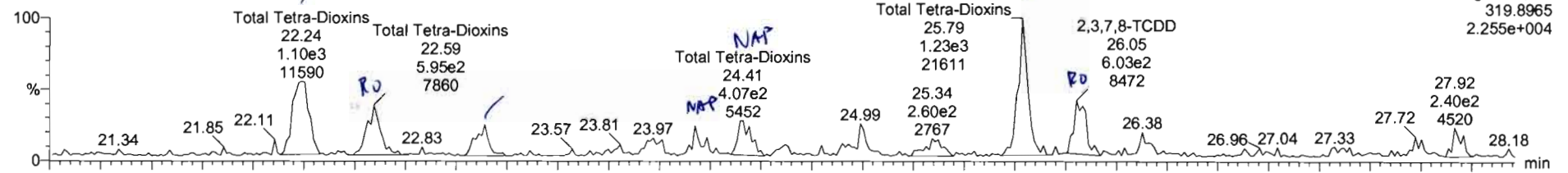
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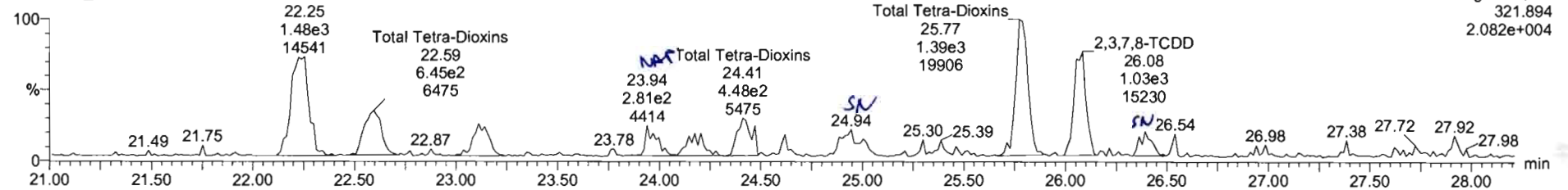
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2,3,7,8-TCDD

201126R1_6

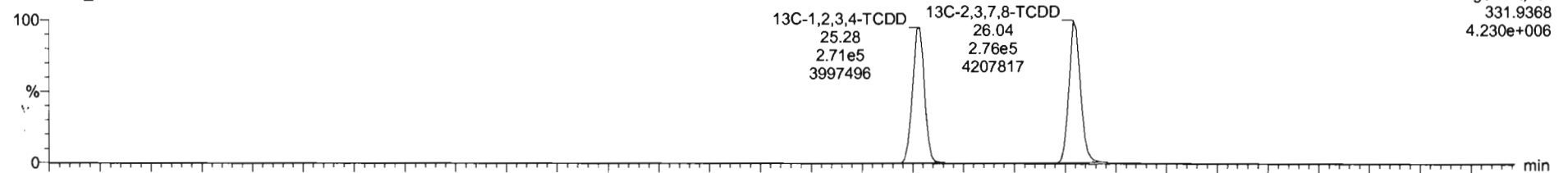


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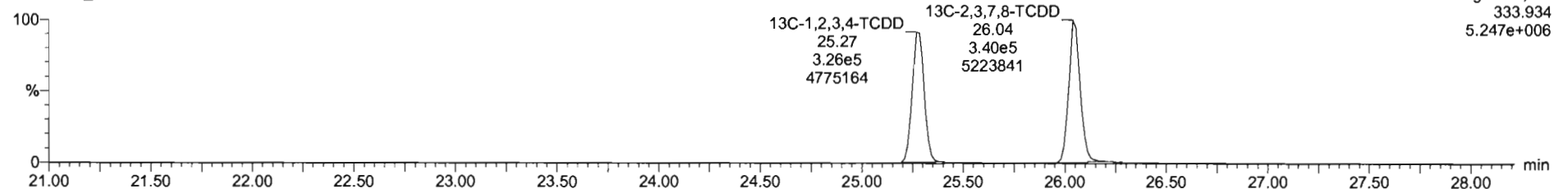


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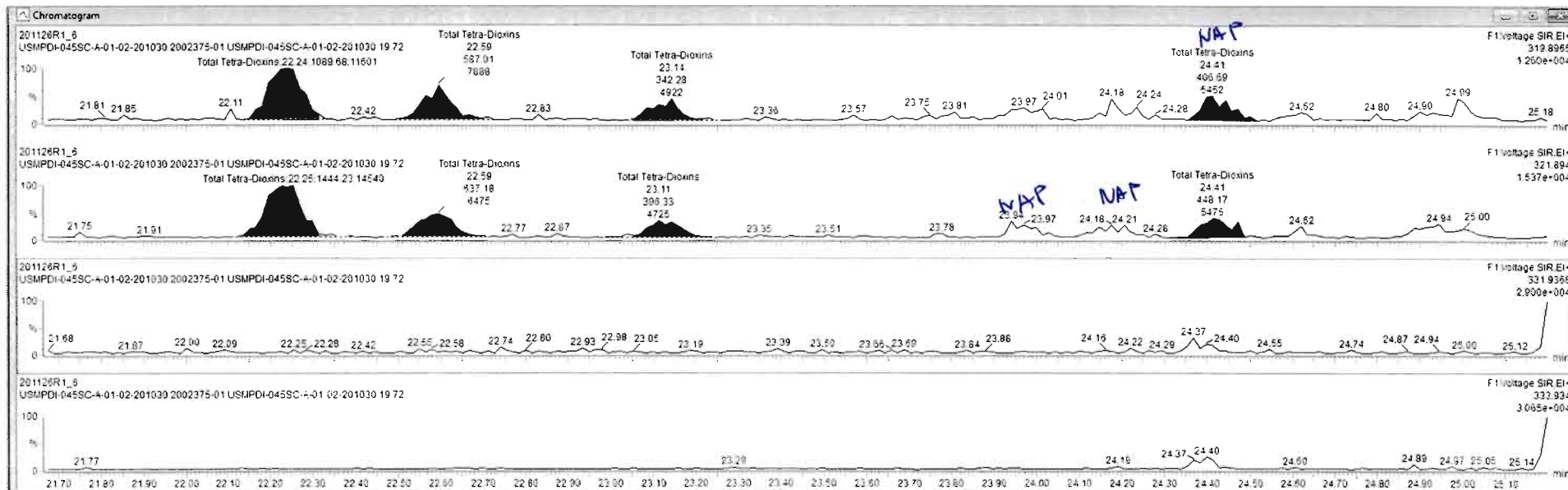
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201126R1_6 - 2002375-01 USMPDI-045SC-A-01-02-201030 19 72 - USMPDI-045SC-A-01-02-201030

Name	Resp	RA	nlv	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
38 Total Tetra-Dioxins				0.9501	10.016			1.97	0.129	3.09	
40 Total Penta-Dioxins				0.3655	10.018			5.97	0.169	7.51	
41 Total Hexa-Dioxins				0.9145	10.018			46.6	0.390	53.4	
42 Total Hepta-Dioxins				0.8697	10.018			26.0	1.48	26.0	
43 Total Tetra-Furans				0.6243	10.018			77.4	0.108	78.4	
44 1st Func. Penta-Furans				0.9628	10.018			5.06	0.0221	5.06	

Name	RT	m1 Resp	m2 Resp	RA	nlv	EMPC	Conc.
1 Total Tetra-Dioxins	22.24	1.030e3	1.444e3	0.75	NO	0.86408	0.86408
2 Total Tetra-Dioxins	22.59	5.870e2	6.372e2	0.92	YES	0.38460	0.00160
3 Total Tetra-Dioxins	23.14	3.423e2	3.963e2	0.86	NO	0.25188	0.25188
4 Total Tetra-Dioxins	24.41	4.087e2	4.482e2	0.91	YES	0.27051	0.00060
5 Total Tetra-Dioxins	25.79	1.189e3	1.347e3	0.87	NO	0.85781	0.85781
6 2,3,7,8-TCDD	28.95	5.880e2	1.008e3	0.58	YES	0.46089	0.00060



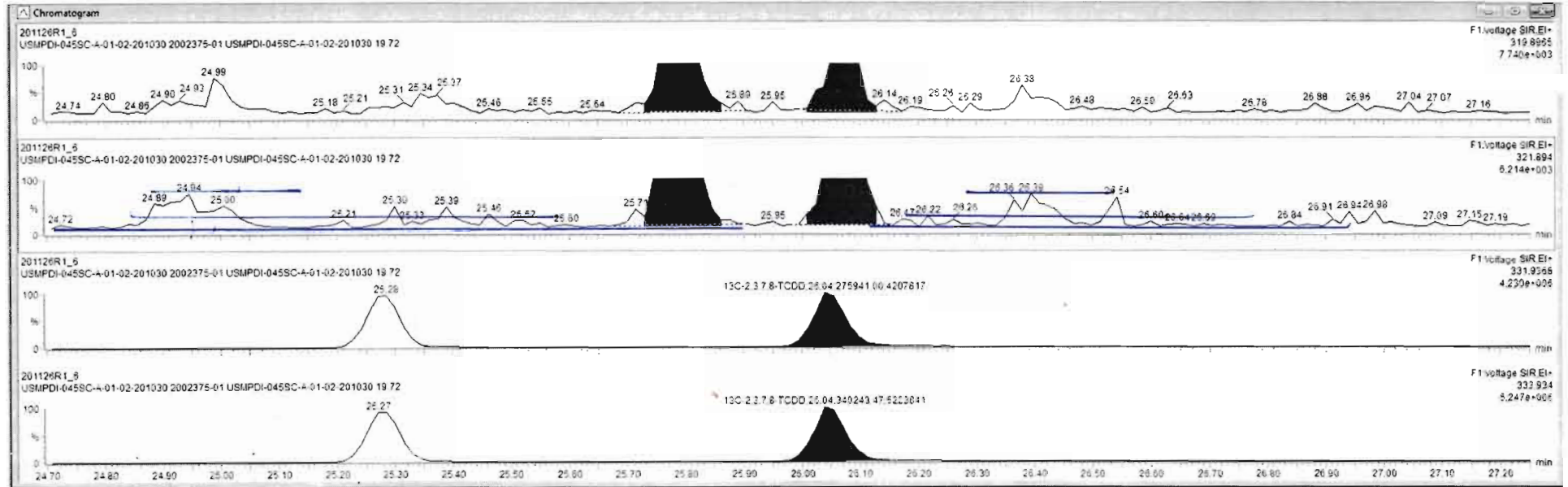
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CAP NUM

#	Name	Resp	RA	nly	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.018			1.97	0.129	2.82	
40	Total Penta-Dioxins				0.8655	10.018			5.97	0.195	7.51	
41	Total Hexa-Dioxins				0.5145	10.018			48.8	0.390	59.2	
42	Total Hepta-Dioxins				0.6697	10.018			26.0	1.43	29.0	
43	Total Tetra-Furans				0.8243	10.018			77.4	0.108	78.4	
44	1st Func. Penta-Furans				0.9028	10.018			5.08	0.0221	5.08	

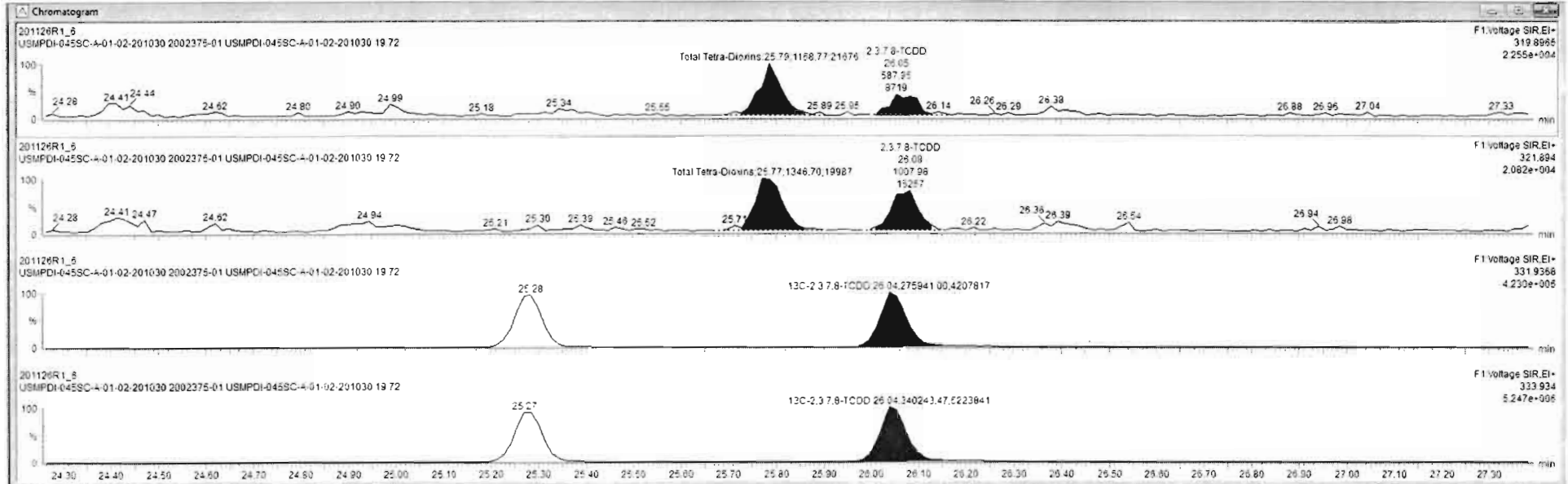
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1	Total Tetra-Dioxins	22.24	1.090e3	1.444e3	0.75	NO	0.06408	0.86408
2	Total Tetra-Dioxins	22.59	5.870e2	6.372e2	0.92	YES	0.38489	0.00000
3	Total Tetra-Dioxins	23.14	3.423e2	3.962e2	0.86	NO	0.25188	0.25188
4	Total Tetra-Dioxins	25.79	1.189e3	1.347e3	0.87	NO	0.85781	0.85781
5	2,3,7,8-TCDD	26.05	5.380e2	1.006e3	0.58	YES	0.46089	0.00000



201126R1_6 - 2002375-01 USMPDI-045SC-A-01-02-201030 19 72 - USMPDI-045SC-A-01-02-201030

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5501	10.018			1.97		0.129	2.82
40 Total Penta-Dioxins				0.8655	10.018			5.97		0.199	7.51
41 Total Hexa-Dioxins				0.9145	10.018			49.6		0.390	50.4
42 Total Hepta-Dioxins				0.8697	10.018			260		1.43	260
43 Total Tetra-Furans				0.8243	10.018			77.4		0.106	79.4
44 1st Func. Penta-Furans				0.8026	10.018			5.08		0.0221	5.08

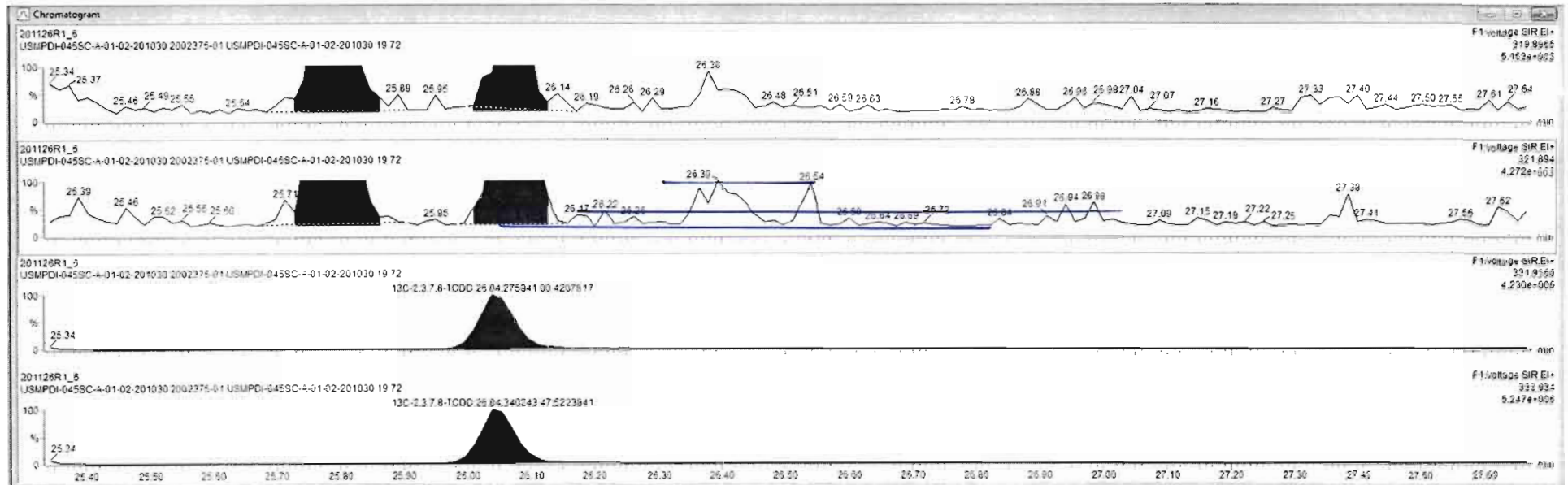
Name	RT	ml Resp	ng Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	22.24	1.090e3	1.444e3	0.75	NO	0.96409	0.96409
2 Total Tetra-Dioxins	22.59	6.070e2	6.372e2	0.62	YES	0.38469	0.00000
3 Total Tetra-Dioxins	23.14	2.423e2	3.963e2	0.66	NO	0.25186	0.25168
4 Total Tetra-Dioxins	25.79	1.198e3	1.347e3	0.87	NO	0.85721	0.85721
5 2,3,7,8-TCDD	26.05	5.860e2	1.008e3	0.58	YES	0.46089	0.00000



201126R1_6 - 2002375-01 USMPDI-045SC-A-01-02-201030 19 72 - USMPDI-045SC-A-01-02-201030

Name	Resp	RA	xy	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.018			1.97	0.129	2.82	
40 Total Penta-Dioxins				0.8816	10.018			6.70	0.169	7.66	
41 Total Hexa-Dioxins				0.9146	10.018			49.8	0.390	50.4	
42 Total Hepta-Dioxins				0.8697	10.018			260	1.43	260	
43 Total Tetra-Furans				0.8243	10.018			77.3	0.106	78.3	
44 1st Func Penta-Furans				0.9628	10.018			5.08	0.0221	5.08	

Name	RT	m1 Resp	m2 Resp	RA	xy	EMPC	Conc.
1 Total Tetra-Dioxins	22.24	1.290e3	1.444e3	0.76	NO	0.96459	0.06408
2 Total Tetra-Dioxins	22.59	5.270e2	6.372e2	0.90	YES	0.38460	0.00000
3 Total Tetra-Dioxins	25.14	2.423e2	3.983e2	0.88	NO	0.75188	0.25168
4 Total Tetra-Dioxins	25.76	1.189e3	1.347e3	0.97	NO	0.96781	0.85781
5 2,3,7,8-TCDD	26.05	5.880e2	1.008e3	0.98	YES	0.46089	0.00000



Ready

201126R1_6

CAP NUM

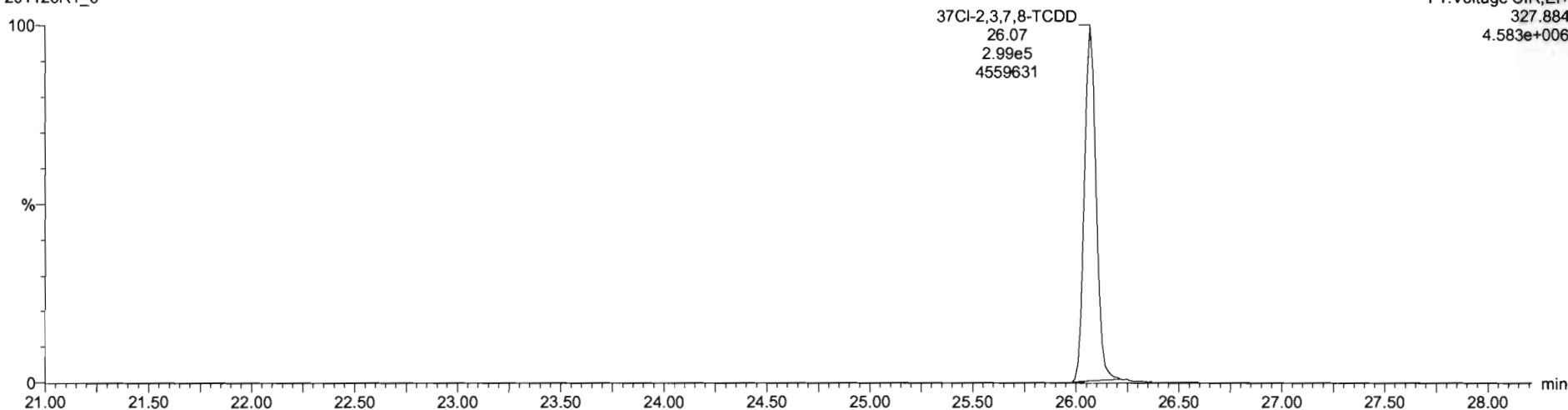
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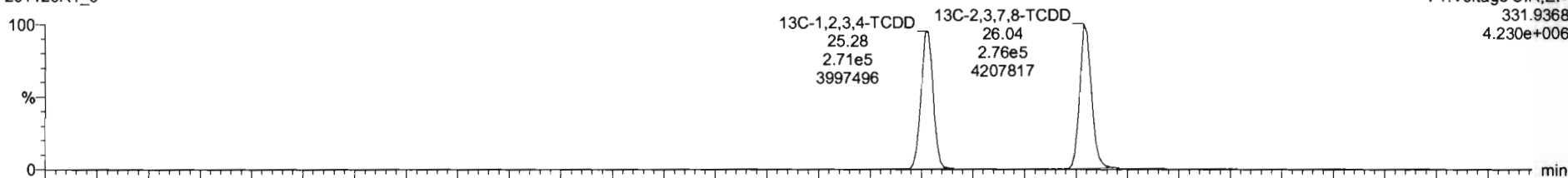
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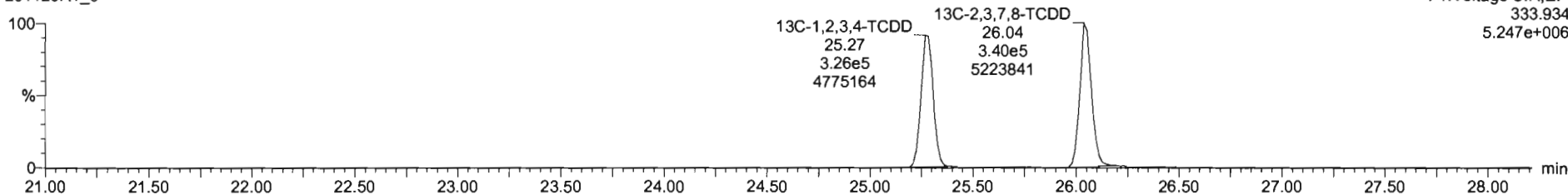


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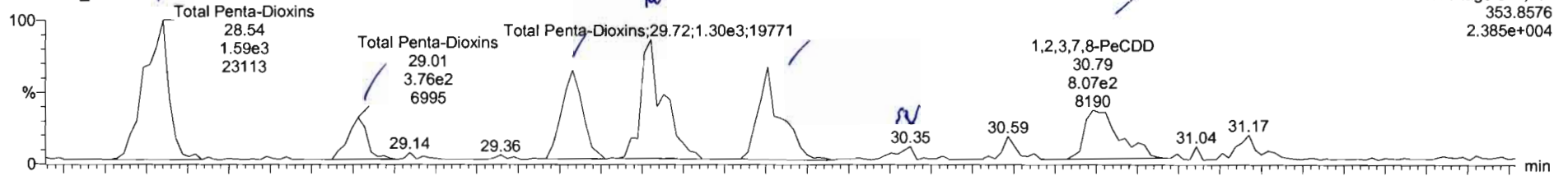
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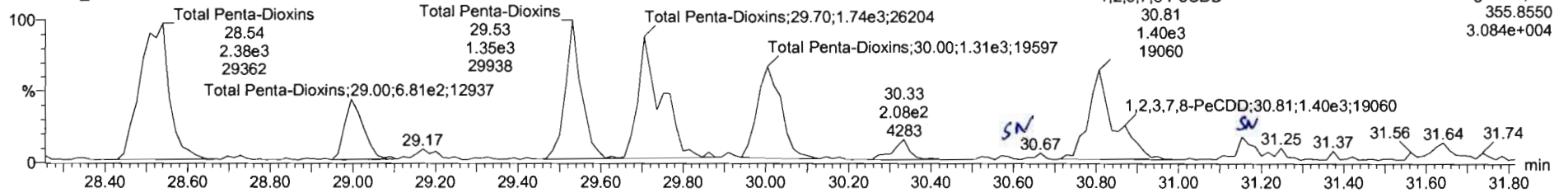
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1,2,3,7,8-PeCDD

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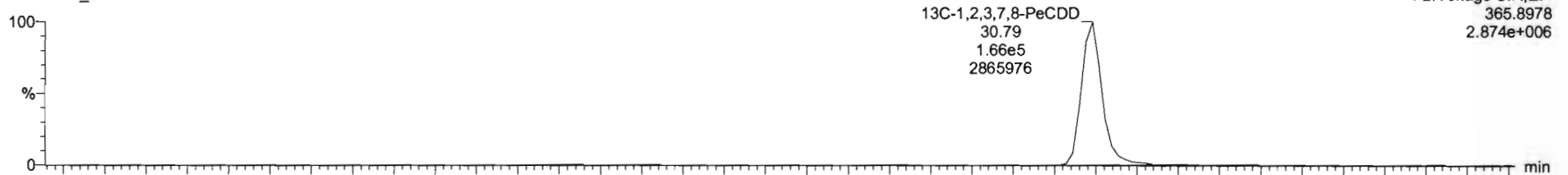


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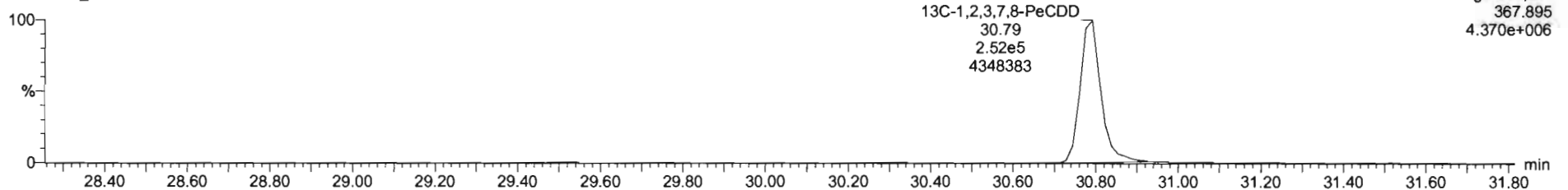


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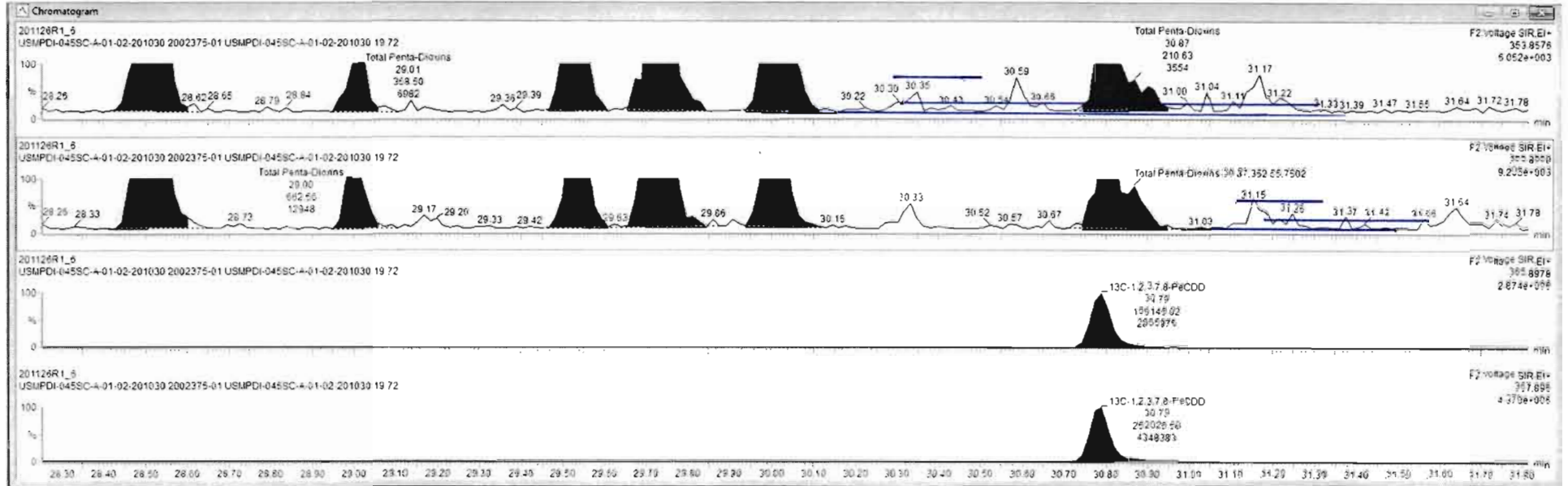


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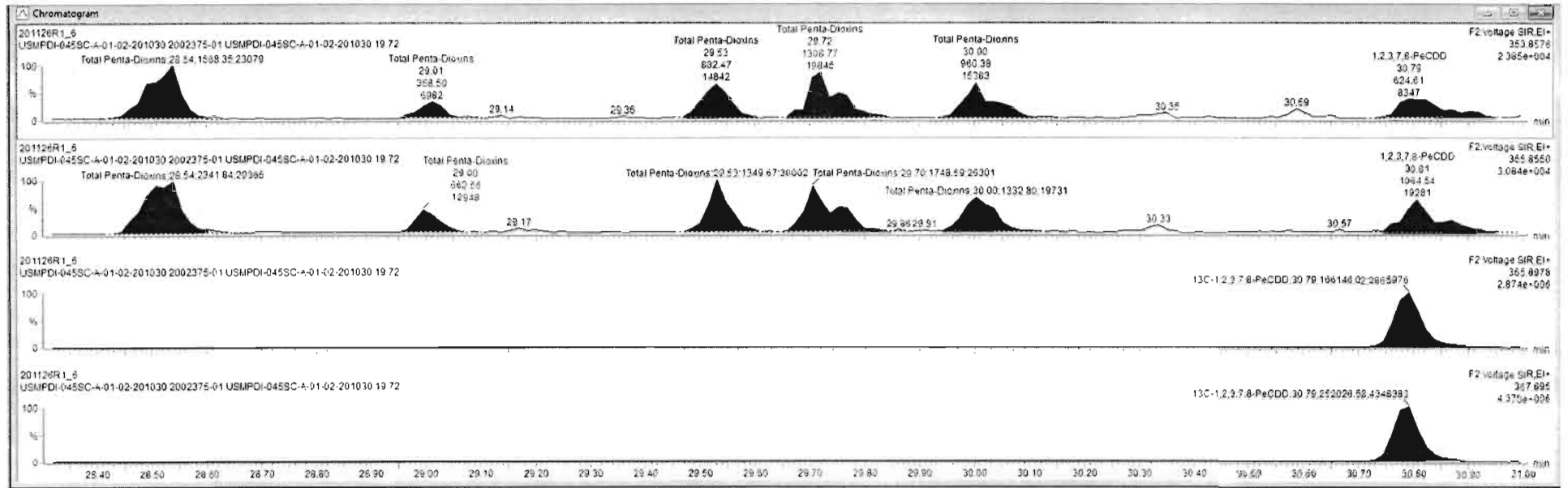
Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9101	10.018			1.97	0.128	2.62	
40 Total Penta-Dioxins				0.8855	10.018			6.31	0.199	7.66	
41 Total Hexa-Dioxins				0.9145	10.018			49.8	0.390	52.4	
42 Total Hepta-Dioxins				0.6697	10.018			260	1.48	260	
43 Total Tetra-Furans				0.8243	10.018			77.4	0.108	76.4	
44 1st Func. Penta-Furans				0.9028	10.018			5.98	0.0221	5.98	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	28.84	1.585e3	2.242e3	0.67	NO	2.1082	2.1082
2 Total Penta-Dioxins	29.01	3.580e2	6.028e2	0.54	NO	3.55009	0.55009
3 Total Penta-Dioxins	29.53	6.925e2	1.260e3	0.65	NO	1.2034	1.2034
4 Total Penta-Dioxins	29.72	1.309e3	1.749e3	0.75	YES	1.5367	0.00000
5 Total Penta-Dioxins	30.00	9.604e2	1.333e3	0.72	NO	1.2364	1.2364
6 1,2,3,7,8-PeCDD	30.79	2.246e2	1.085e3	0.69	NO	0.91070	0.91070



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.018			1.97		0.129	2.82
40	Total Penta-Dioxins				0.8855	10.018			6.31		0.199	7.65
41	Total Hexa-Dioxins				0.9145	10.018			49.8		0.390	50.4
42	Total Hepta-Dioxins				0.8897	10.018			260		1.48	260
43	Total Tetra-Furans				0.8243	10.018			77.4		0.108	79.4
44	1st Func Penta-Furans				0.9828	10.018			5.08		0.0221	5.08

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Penta-Dioxins	28.54	1.588e3	2.342e3	0.67	NO	2.1682	2.1682
2	Total Penta-Dioxins	29.01	3.585e2	6.628e2	0.54	NO	0.55050	0.55050
3	Total Penta-Dioxins	29.53	8.025e2	1.355e3	0.65	NO	1.2034	1.2034
4	Total Penta-Dioxins	29.72	1.308e3	1.748e3	0.75	YES	1.5367	0.60000
5	Total Penta-Dioxins	30.00	9.604e2	1.333e3	0.72	NO	1.2364	1.2364
6	1,2,3,7,8-PeCDD	30.79	8.246e2	1.065e3	0.59	NO	0.91076	0.91076



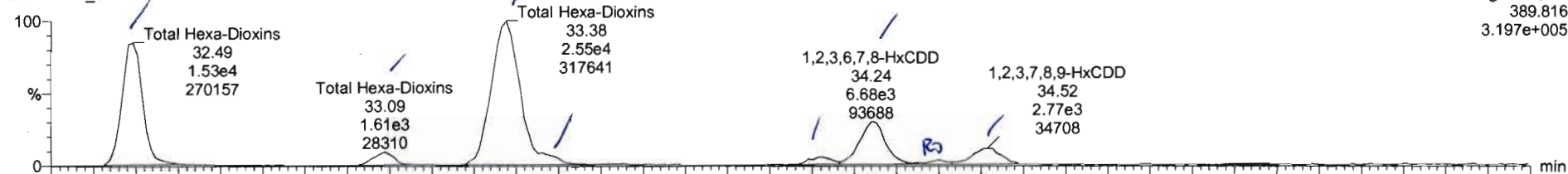
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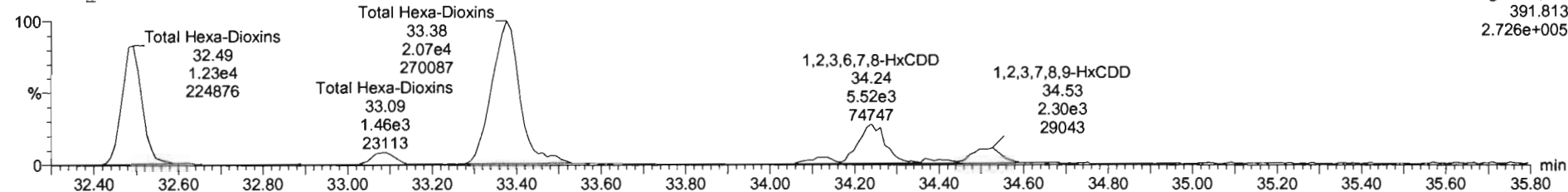
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1,2,3,4,7,8-HxCDD

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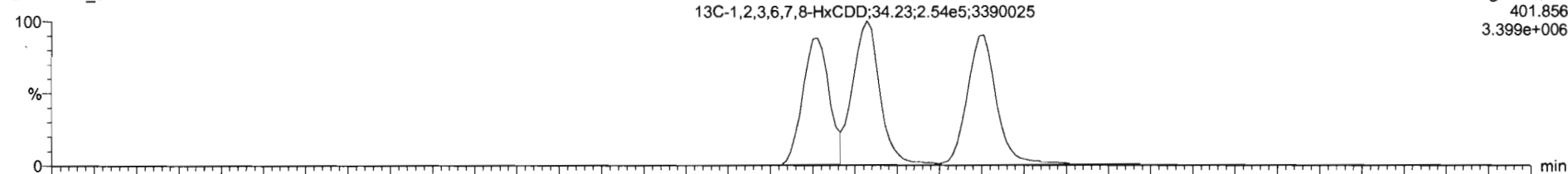


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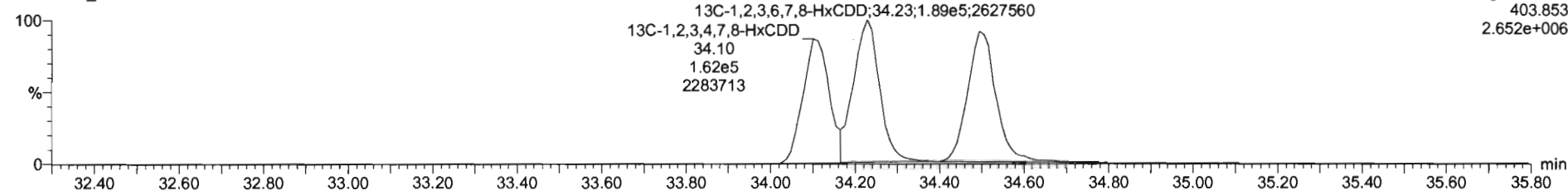


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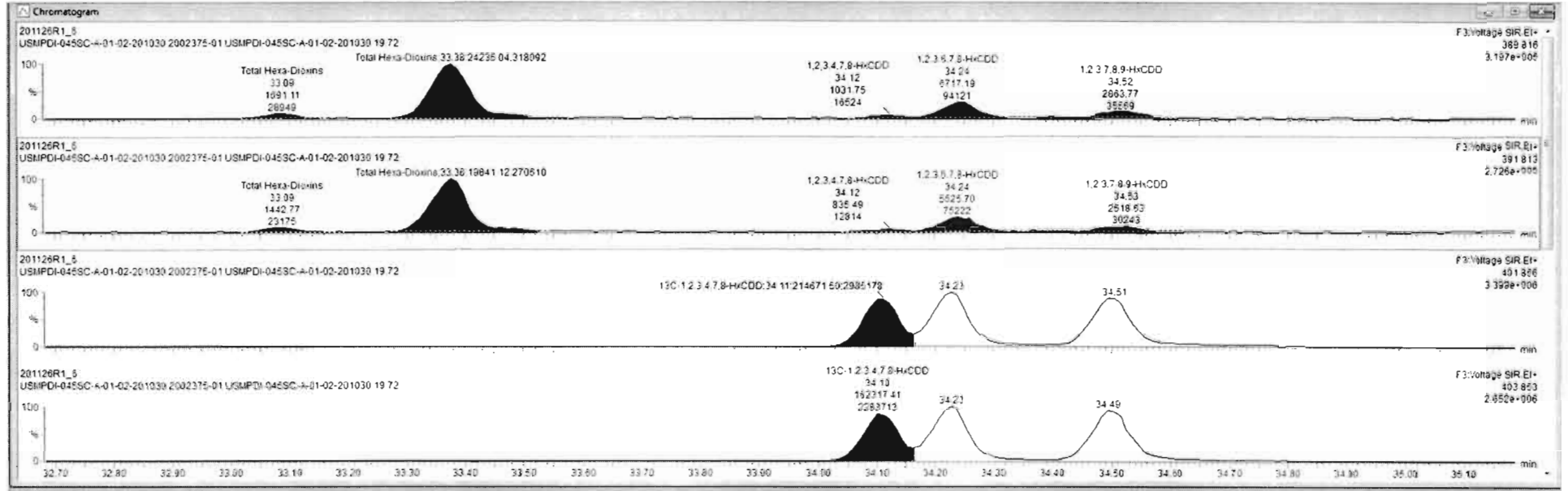


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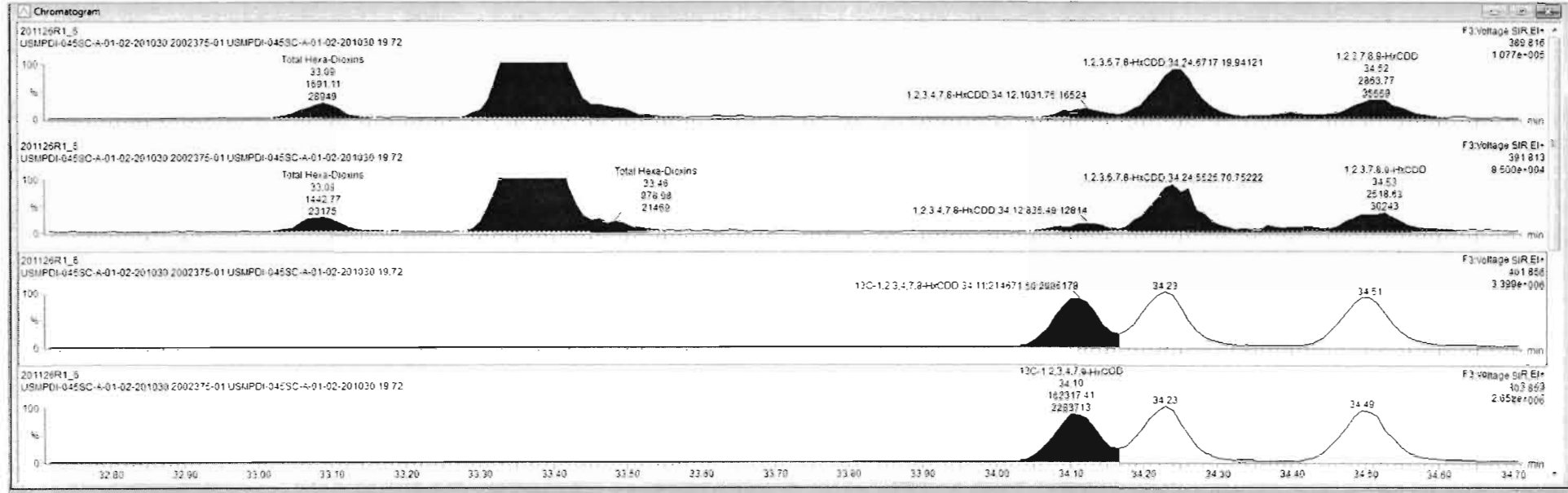
Name	Resp	RA	aly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.018			1.97		0.129	2.52
40 Total Penta-Dioxins				0.8855	10.018			6.31		0.199	7.85
41 Total Hexa-Dioxins				0.8145	10.018			49.8		0.360	50.4
42 Total Hepta-Dioxins				0.8697	10.018			260		1.45	260
43 Total Tetra-Furans				0.8243	10.018			77.4		0.108	78.4
44 1st Func. Penta-Furans				0.9026	10.018			5.08		0.0221	5.08

Name	RT	m1 Resp	m2 Resp	RA	aly	EMPC	Conc
1 Total Hexa-Dioxins	33.48	1.52544	1.22744	1.24	NO	14.346	14.340
2 Total Hexa-Dioxins	33.09	1.29163	1.44363	1.17	NO	1.8128	1.8328
3 Total Hexa-Dioxins	33.38	2.42444	1.98444	1.22	NO	22.965	22.995
4 Total Hexa-Dioxins	33.46	1.31563	0.79062	1.34	NO	1.1353	1.1953
5 1,2,3,4,7,8-HxCDD	34.12	1.03263	6.35562	1.23	NO	0.97177	0.97177
6 1,2,3,6,7,8-HxCDD	34.24	6.71762	5.52663	1.22	NO	6.0394	6.0394
7 Total Hexa-Dioxins	34.40	8.87062	6.78462	1.01	YES	0.84664	0.00000
8 1,2,3,7,8,9-HxCDD	34.52	2.86463	2.51963	1.14	NO	2.6288	2.6288



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.018			1.97	0.129	2.52	
40	Total Penta-Dioxins				0.8655	10.018			6.71	0.155	7.85	
41	Total Hexa-Dioxins				0.9145	10.018			49.8	0.390	50.4	
42	Total Hepta-Dioxins				0.8697	10.018			260	1.43	260	
43	Total Tetra-Furans				0.8243	10.018			77.4	0.108	78.4	
44	1st Fulleo Penta-Furans				0.8026	10.018			5.32	0.5281	5.52	

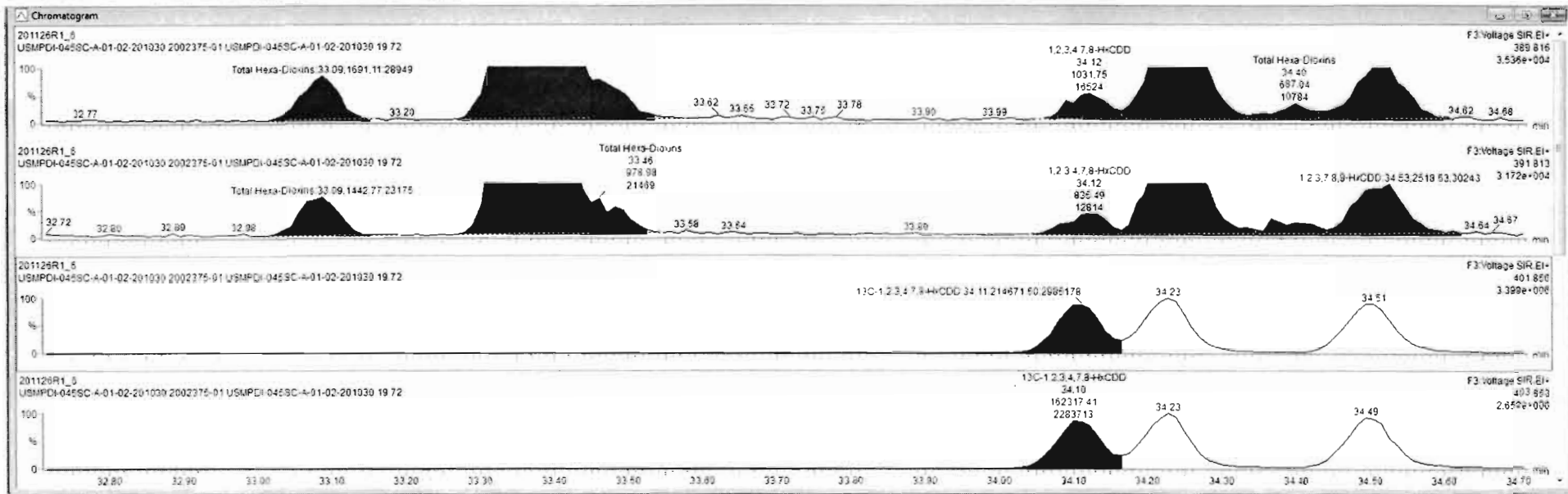
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	33.48	1.525e4	1.227e4	1.24	NO	14.340	14.340
2	Total Hexa-Dioxins	33.09	1.891e3	1.442e3	1.17	NO	1.6328	1.6328
3	Total Hexa-Dioxins	33.38	2.427e4	1.964e4	1.22	NO	22.965	22.965
4	Total Hexa-Dioxins	33.46	1.315e3	9.790e2	1.34	NO	1.1983	1.1983
5	1,2,3,4,7,8-HxCDD	34.12	1.032e3	8.755e2	1.23	NO	0.81777	0.81777
6	1,2,3,6,7,8-HxCDD	34.24	8.717e3	5.928e3	1.22	NO	6.0394	6.0394
7	Total Hexa-Dioxins	34.40	8.870e2	8.784e2	1.01	YES	0.84684	0.84684
8	1,2,3,7,8,9-HxCDD	34.52	2.064e3	2.011e3	1.14	NO	2.9288	2.9288



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Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9401	10.018			1.57		0.129	2.82
40 Total Penta-Dioxins				0.8855	10.018			6.31		0.189	7.85
41 Total Hexa-Dioxins				0.6145	10.018			49.8		0.380	50.4
42 Total Hepta-Dioxins				0.8697	10.018			260		1.48	260
43 Total Tetra-Furans				0.8243	10.018			77.4		0.106	76.4
44 1st Func. Penta-Furans				0.5028	10.018			5.06		0.0221	5.06

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.49	1.525e4	1.227e4	1.24	NO	14.340	14.340
2 Total Hexa-Dioxins	33.09	1.891e3	1.442e3	1.17	NO	1.6328	1.6328
3 Total Hexa-Dioxins	33.38	2.424e4	1.984e4	1.22	NO	22.965	22.965
4 Total Hexa-Dioxins	33.46	1.315e7	9.790e2	1.34	NO	1.1953	1.1953
5 1,2,3,4,7,8-HxCDD	34.12	1.030e3	8.351e2	1.23	NO	5.97177	6.97177
6 1,2,3,6,7,8-HxCDD	34.24	6.717e3	5.526e3	1.22	NO	6.0394	6.0394
7 Total Hexa-Dioxins	34.40	6.870e2	6.784e2	1.01	YES	5.64684	0.00680
8 1,2,3,7,8,9-HxCDD	34.52	2.964e2	2.515e2	1.14	NO	2.6386	2.6386



Ready

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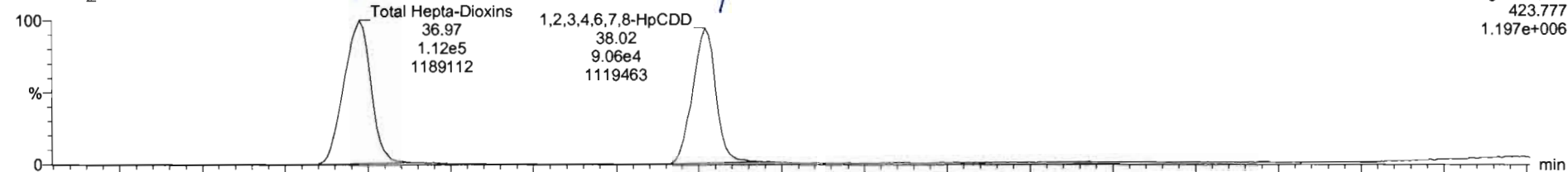
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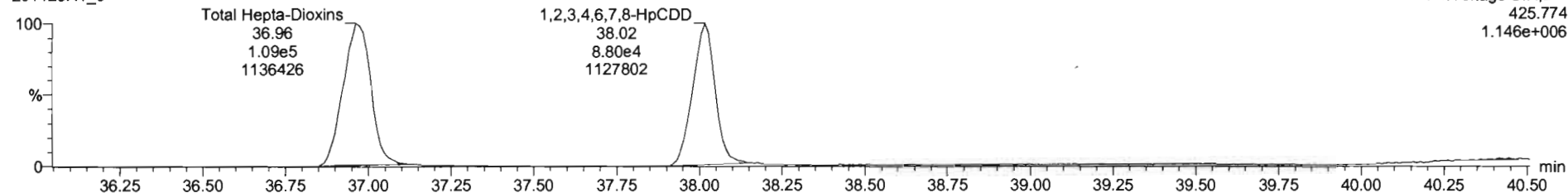
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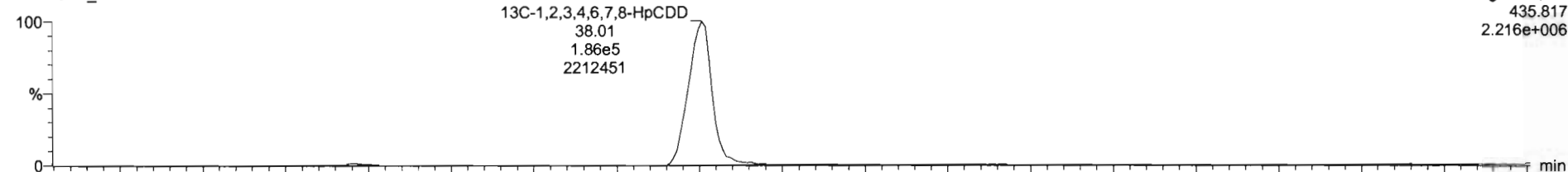


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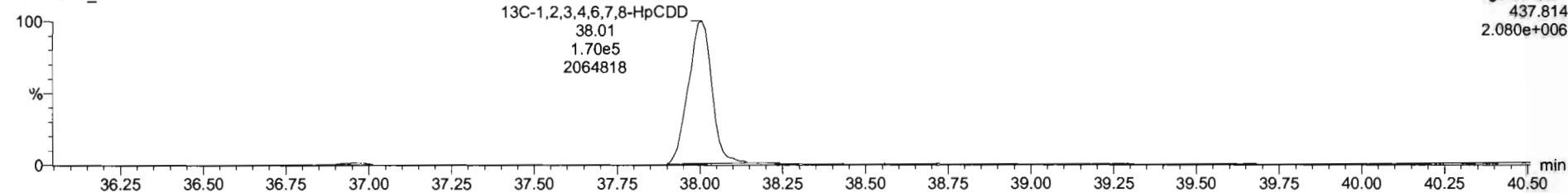


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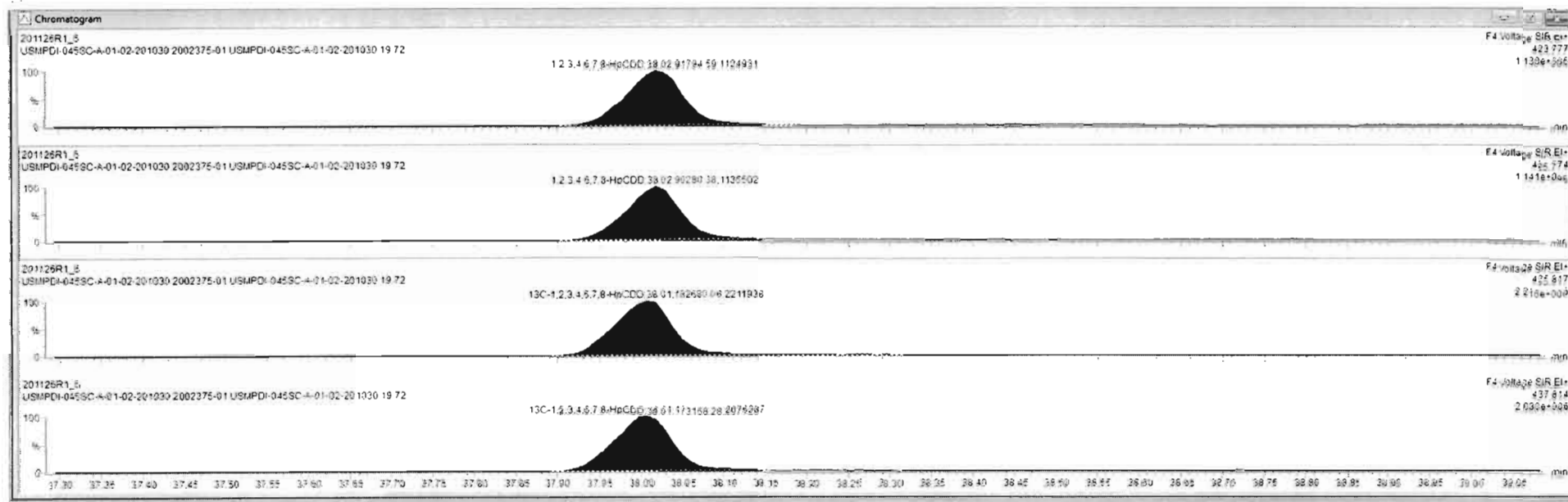


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Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.018			1.97	0.129	2.82	
40 Total Penta-Dioxins				0.8855	10.018			6.31	0.195	7.85	
41 Total Hexa-Dioxins				0.9145	10.018			49.8	0.256	50.4	
42 Total Hepta-Dioxins				0.8697	10.018			280	1.45	280	
43 Total Tetra-Furans				0.8243	10.018			77.4	0.108	78.4	
44 1st Func. Penta-Furans				0.9528	10.018			5.06	0.0221	5.06	

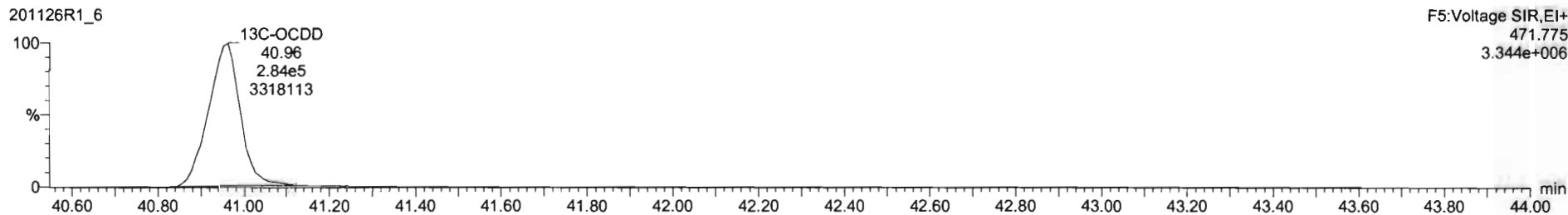
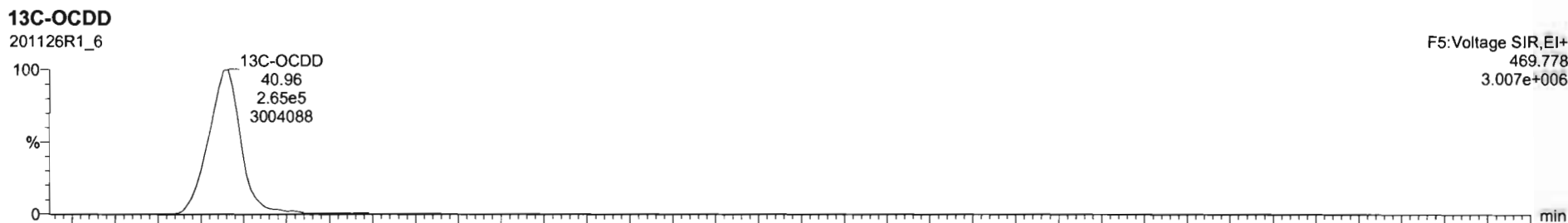
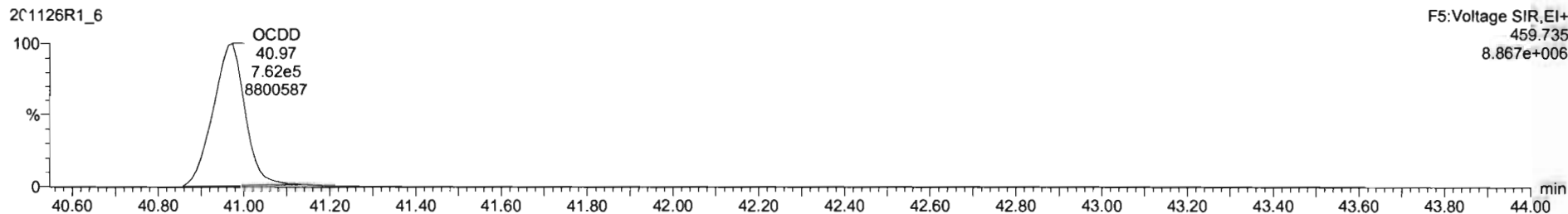
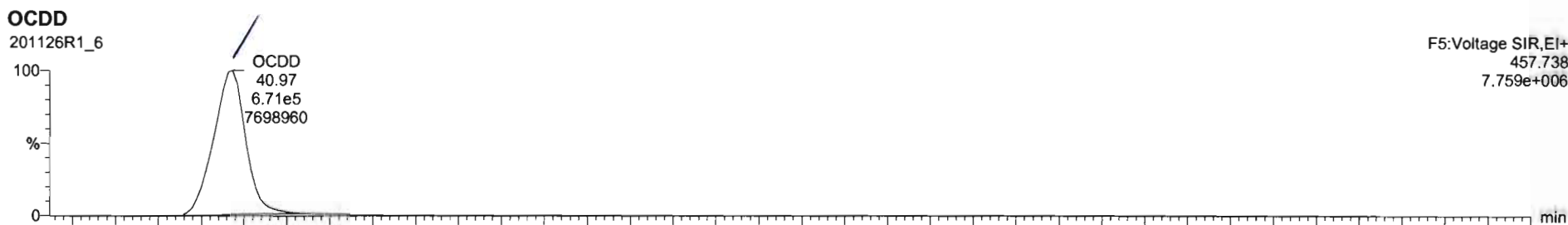
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	38.97	1.115e5	1.093e5	1.02	HO	142.86	142.86
2 1,2,3,4,6,7,8-HxCDD	38.92	9.175e4	9.025e4	1.02	HO	117.45	117.45



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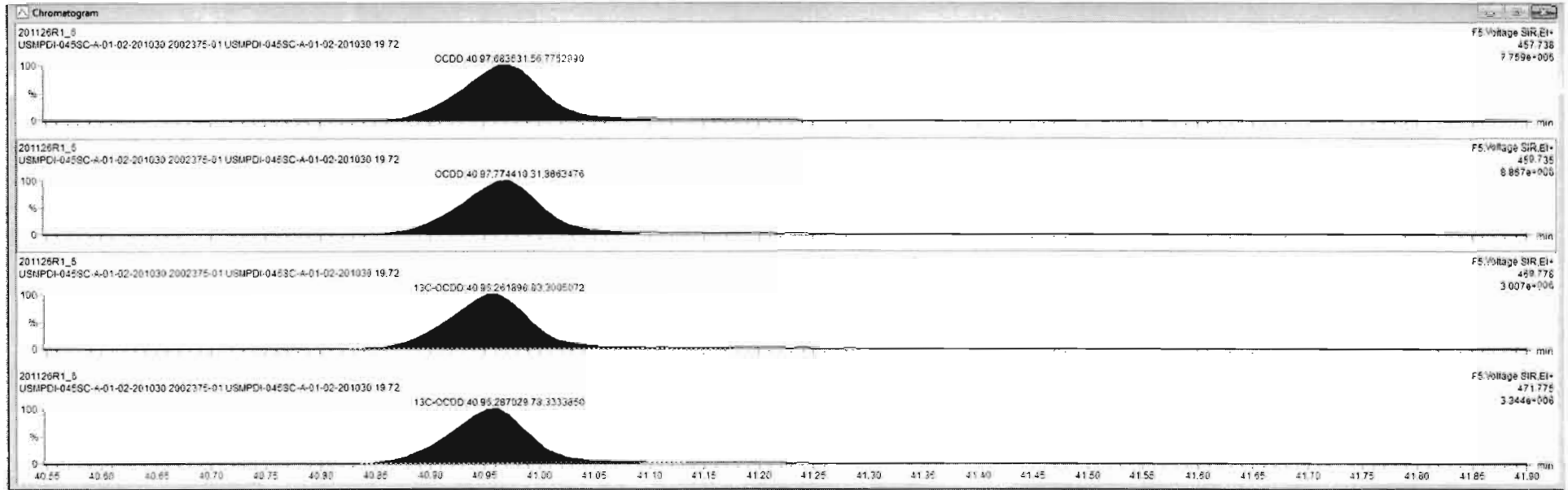
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Name	Resp	RA	ny	RRF	wtwt	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	1.46E6	0.85	NO	0.6717	10.018	40.97	1.000	1220		1.00	1220
9 2,3,7,8-TCDF	9.90E4	0.74	NO	0.8243	10.018	29.37	1.001	24.0		0.106	24.0
9 1,2,3,7,8-PeCDF	1.92E5	1.59	NO	0.9028	10.018	29.53	1.001	47.1		0.271	47.1
10 2,3,4,7,8-PeCDF	1.47E5	1.81	NO	1.0684	10.018	30.66	1.000	33.1		0.252	33.1
11 1,2,3,4,7,8-HxCDF	9.89E4	1.20	NO	0.9575	10.018	33.22	1.000	38.7		0.268	38.7
12 1,2,3,6,7,8-HxCDF	2.86E4	1.19	NO	1.0980	10.018	33.24	1.000	10.2		0.229	10.2

Name	RT	mI Resp	mQ Resp	RA	ny	EMPC	Conc
1							

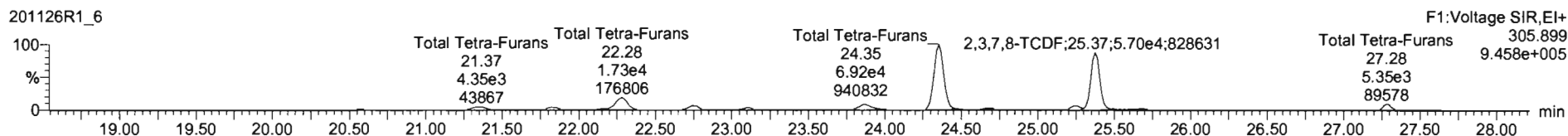
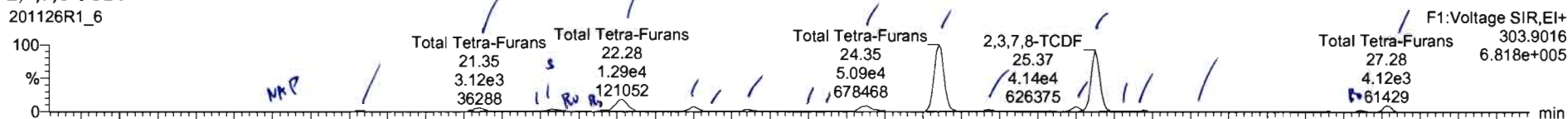


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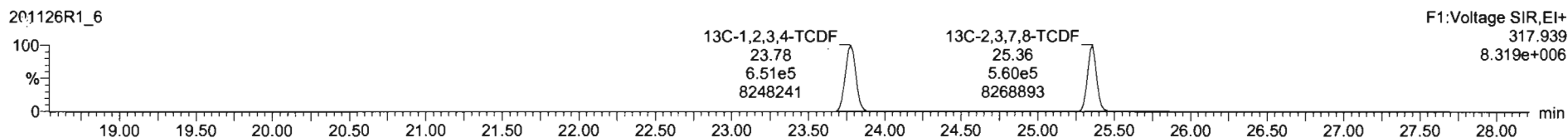
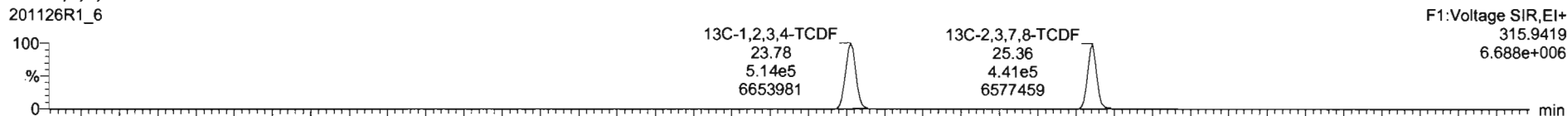
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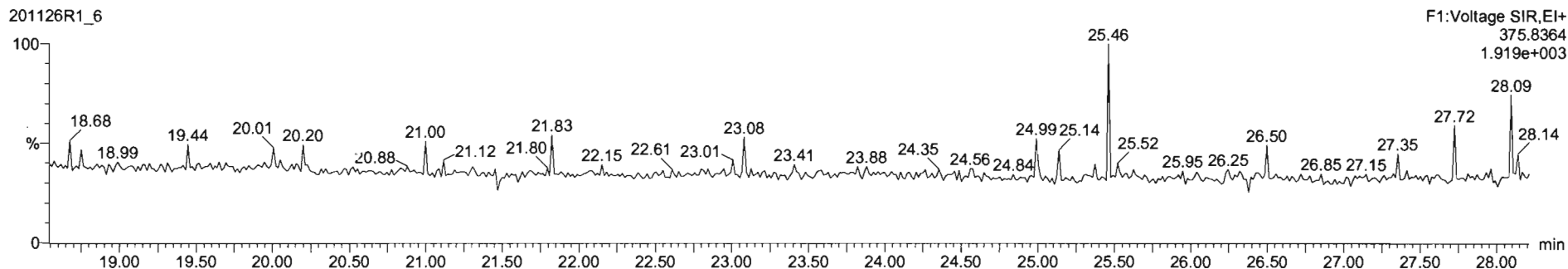
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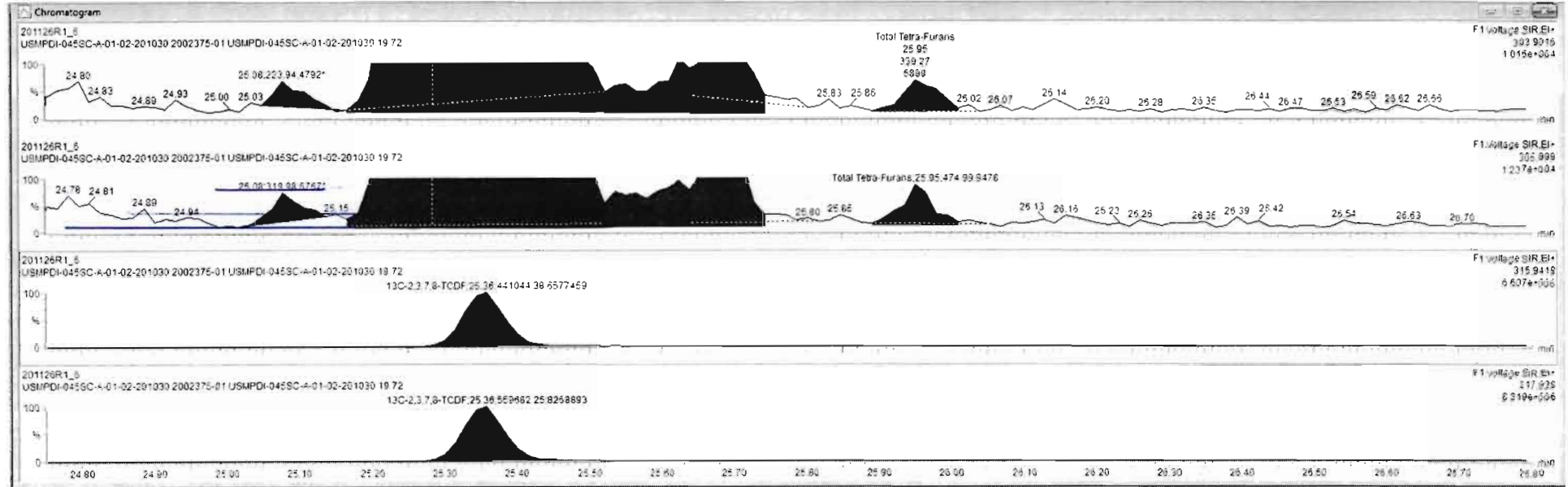


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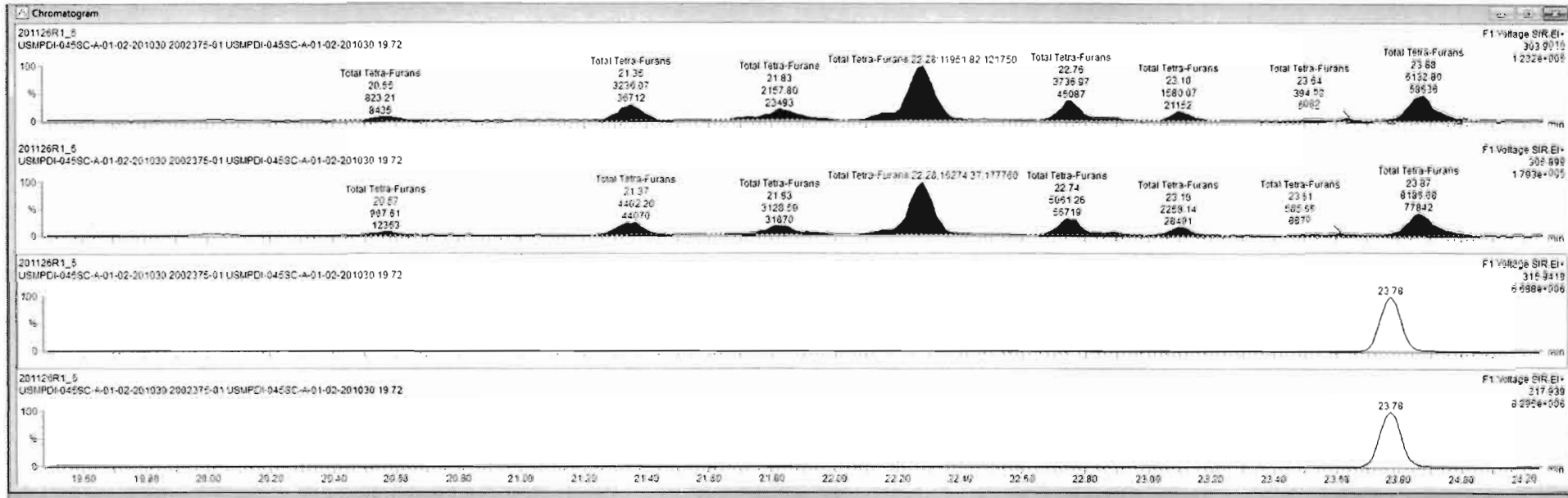
Name	Resp	RA	n/y	RRF	rdvol	RT	RRT	Conc	%Rec	DL	EMPC
35 Total Tetra-Dioxins				0.9501	10.018			1.97	0.129	2.32	
40 Total Penta-Dioxins				0.6895	10.018			6.31	0.199	7.85	
41 Total Hexa-Dioxins				0.9145	10.018			49.6	0.390	50.4	
42 Total Hepta-Dioxins				0.6697	10.018			260	1.48	260	
42 Total Tetra-Furans				0.8243	10.018			77.4	0.108	78.4	
44 1st Func. Penta-Furans				0.9608	10.018			5.98	0.0221	5.98	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.55	8.232e2	9.678e2	0.85	NO	0.43342	0.43342
2 Total Tetra-Furans	21.35	3.236e3	4.492e3	0.74	NO	1.8456	1.8456
3 Total Tetra-Furans	21.74	3.516e2	4.439e2	0.79	NO	0.19252	0.19252
4 Total Tetra-Furans	21.83	2.158e3	3.129e3	0.69	NO	1.2794	1.2794
5 Total Tetra-Furans	21.90	4.624e2	7.722e2	0.80	YES	0.09000	0.09000
6 Total Tetra-Furans	22.19	1.255e3	1.410e3	0.89	YES	0.09000	0.09000
7 Total Tetra-Furans	22.28	1.191e4	1.627e4	0.73	NO	6.8313	6.8313
8 Total Tetra-Furans	22.76	3.737e3	5.061e3	0.74	NO	2.1294	2.1294



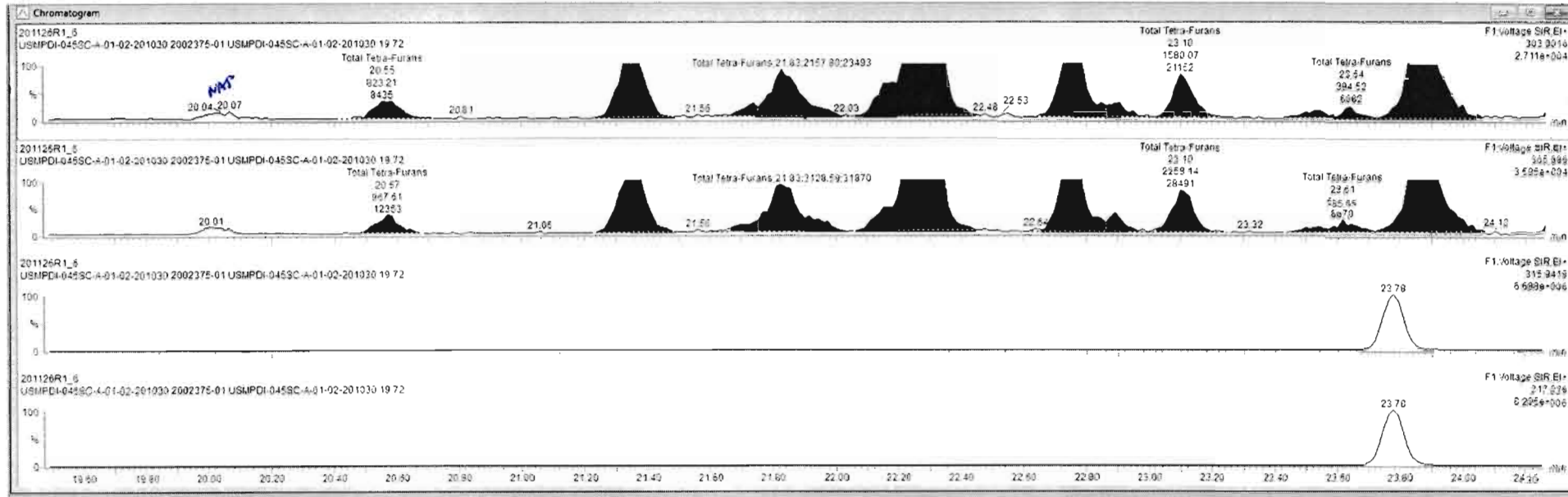
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.018			1.97	0.129	2.82	
40 Total Penta-Dioxins				0.8655	10.018			6.31	0.199	7.85	
41 Total Hexa-Dioxins				0.9145	10.018			29.6	0.390	50.2	
42 Total Hepta-Dioxins				0.8697	10.018			260	1.43	260	
43 Total Tetra-Furans				0.8243	10.018			77.6	0.108	79.7	
44 1st Func. Penta-Furans				0.9628	10.018			5.09	0.0221	5.09	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.55	8.232e2	9.675e2	0.85	NO	0.43342	0.43342
2 Total Tetra-Furans	21.35	0.236e3	4.402e3	0.74	NO	1.8486	1.8486
3 Total Tetra-Furans	21.74	3.515e2	4.689e2	0.75	NO	0.19649	0.19549
4 Total Tetra-Furans	21.83	2.195e3	3.129e3	0.88	NO	1.2794	1.2794
5 Total Tetra-Furans	21.90	4.634e2	7.722e2	0.60	YES	0.25725	0.00000
6 Total Tetra-Furans	22.19	1.255e2	1.410e2	0.89	YES	0.65411	0.00000
7 Total Tetra-Furans	22.28	1.195e4	1.627e4	0.73	NO	6.3313	6.3313
8 Total Tetra-Furans	22.76	2.737e3	5.061e3	0.74	NO	2.1294	2.1294



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.018			1.97		0.129	2.82
40 Total Penta-Dioxins				0.8855	10.018			6.31		0.169	7.85
41 Total Hexa-Dioxins				0.9145	10.018			49.8		0.396	50.2
42 Total Hepta-Dioxins				0.8697	10.018			260		1.43	260
43 Total Tetra-Furans				0.8243	10.018			77.6		0.108	78.7
44 1st Func. Penta-Furans				0.9028	10.018			5.98		0.0221	5.98

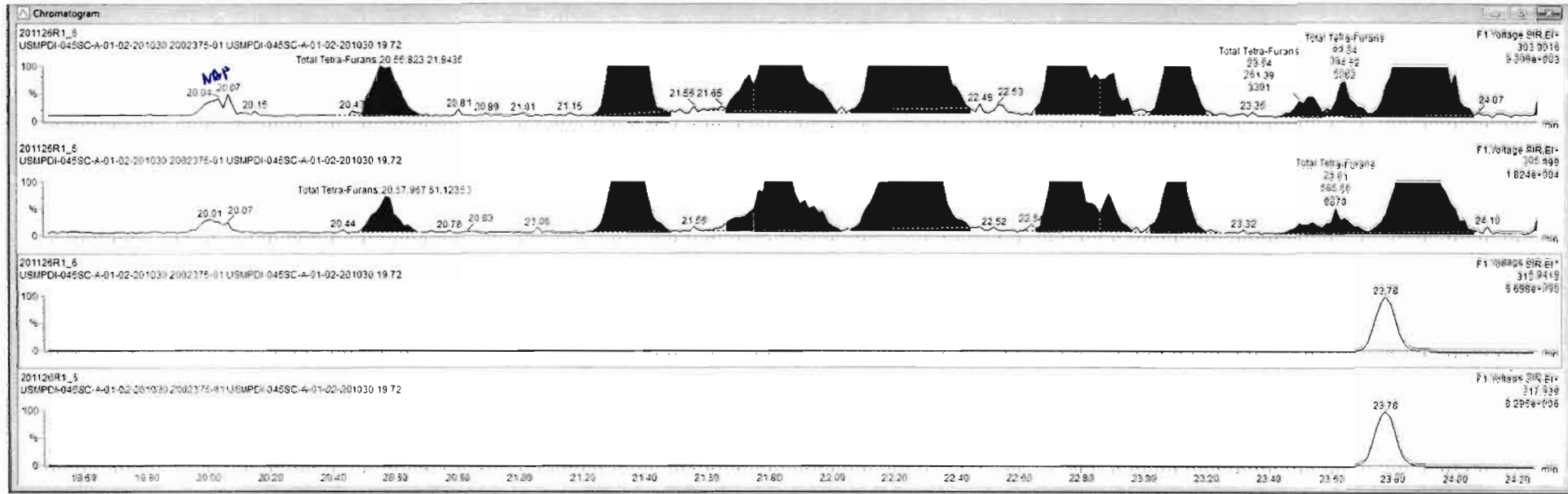
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.55	8.23242	9.67542	0.85	NO	0.43342	0.43342
2 Total Tetra-Furans	21.35	3.23643	4.49243	0.74	NO	1.6486	1.6486
3 Total Tetra-Furans	21.74	3.51642	4.88642	0.75	NO	3.16849	3.16849
4 Total Tetra-Furans	21.83	2.15843	3.12843	0.66	NO	1.2794	1.2794
5 Total Tetra-Furans	21.90	4.62442	7.72242	0.60	YES	0.25729	0.00060
6 Total Tetra-Furans	22.15	1.25543	1.41043	0.89	YES	0.82411	0.00050
7 Total Tetra-Furans	22.25	1.19644	1.62744	0.73	NO	9.3313	6.6313
8 Total Tetra-Furans	22.79	2.73742	5.06142	0.74	NO	2.1294	2.1294



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#1	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.018			1.97	0.129	2.82	
40	Total Penta-Dioxins				0.8855	10.018			6.71	0.195	7.95	
41	Total Hexa-Dioxins				0.9145	10.018			49.8	0.390	50.4	
42	Total Hepta-Dioxins				0.8697	10.012			260	1.48	260	
43	Total Tetra-Furans				0.8243	10.019			77.6	0.108	76.7	
44	1st Func. Penta-Furans				0.9026	10.018			5.08	0.0221	5.08	

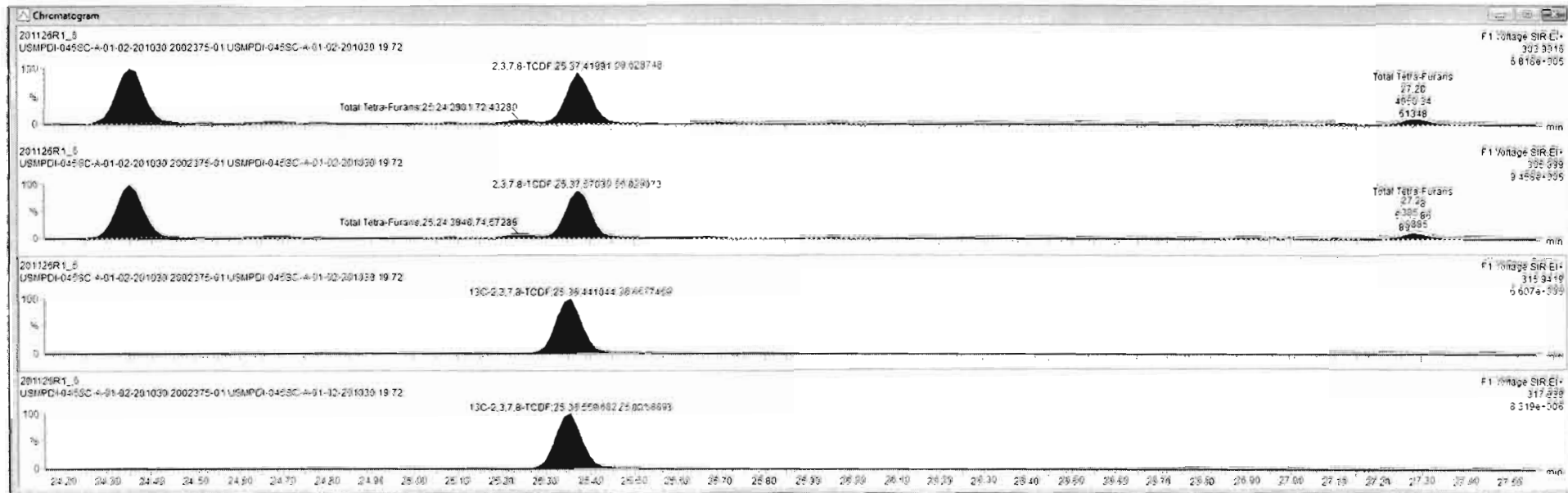
#1	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Tetra-Furans	20.55	8.230e2	9.678e2	0.85	NO	0.43342	0.43342
2	Total Tetra-Furans	21.35	3.236e3	4.402e3	0.74	NO	1.8488	1.8488
3	Total Tetra-Furans	21.74	3.516e2	4.089e2	0.75	NO	3.19849	0.19049
4	Total Tetra-Furans	21.83	2.159e3	3.129e3	0.69	NO	1.2794	1.2794
5	Total Tetra-Furans	21.80	4.824e2	7.722e2	0.60	YES	3.25725	0.00000
6	Total Tetra-Furans	22.15	1.265e3	1.410e3	0.89	YES	0.80411	0.00000
7	Total Tetra-Furans	22.25	1.196e4	1.827e4	0.73	NO	6.8313	6.8313
8	Total Tetra-Furans	22.70	3.737e3	5.061e3	0.74	NO	2.1284	2.1284



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Name	Resp	RA	ny	RRF	w/wt	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.018			1.97		0.129	2.82
40 Total Penta-Dioxins				0.9855	10.018			6.31		0.199	7.85
41 Total Hexa-Dioxins				0.9145	10.018			49.8		0.390	50.4
42 Total Hepta-Dioxins				0.8657	10.018			260		1.43	260
43 Total Tetra-Furans				0.8243	10.018			77.6		0.108	76.7
44 1st Func. Penta-Furans				0.9028	10.018			5.08		0.0221	5.08

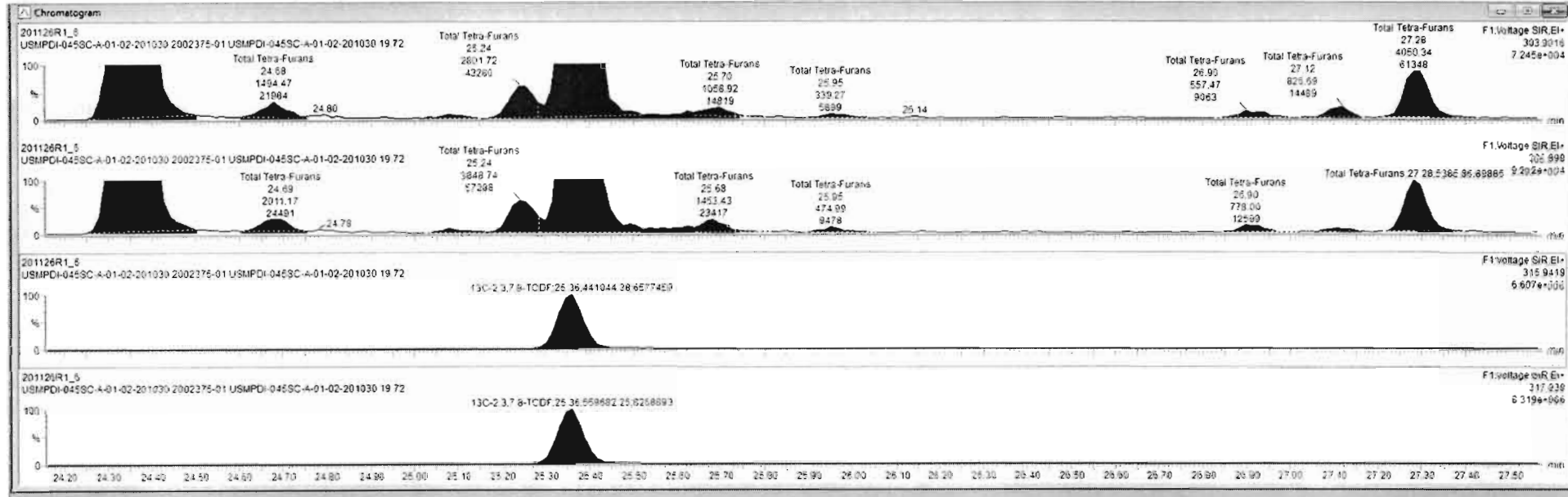
Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1 Total Tetra-Furans	20.55	8.23242	9.67542	0.85	NO	3.42342	0.43342
2 Total Tetra-Furans	21.35	3.23863	4.46263	0.74	NO	1.84663	1.84663
3 Total Tetra-Furans	21.74	3.51662	4.68662	0.75	NO	1.19649	0.19549
4 Total Tetra-Furans	21.83	2.15863	3.12863	0.80	NO	1.2794	1.2794
5 Total Tetra-Furans	21.90	4.62462	7.72262	0.60	YES	0.25725	0.00000
6 Total Tetra-Furans	22.18	1.25563	1.41063	0.89	YES	0.02411	0.00000
7 Total Tetra-Furans	22.28	1.19664	1.52764	0.73	NO	0.3313	0.3313
8 Total Tetra-Furans	22.78	3.73163	5.58163	0.74	NO	2.1264	0.1284



Ready

Name	Resp	RA	nly	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.018			1.97	5.128	2.82	
40 Total Penta-Dioxins				0.8855	10.018			6.31	0.158	7.85	
41 Total Hexa-Dioxins				0.5145	10.018			49.8	0.350	50.4	
42 Total Hepta-Dioxins				0.8697	10.018			260	1.43	260	
43 Total Tetra-Furans				0.8343	10.018			77.6	0.108	78.7	
44 1st Func. Penta-Furans				0.9628	10.018			1.95	0.2221	5.08	

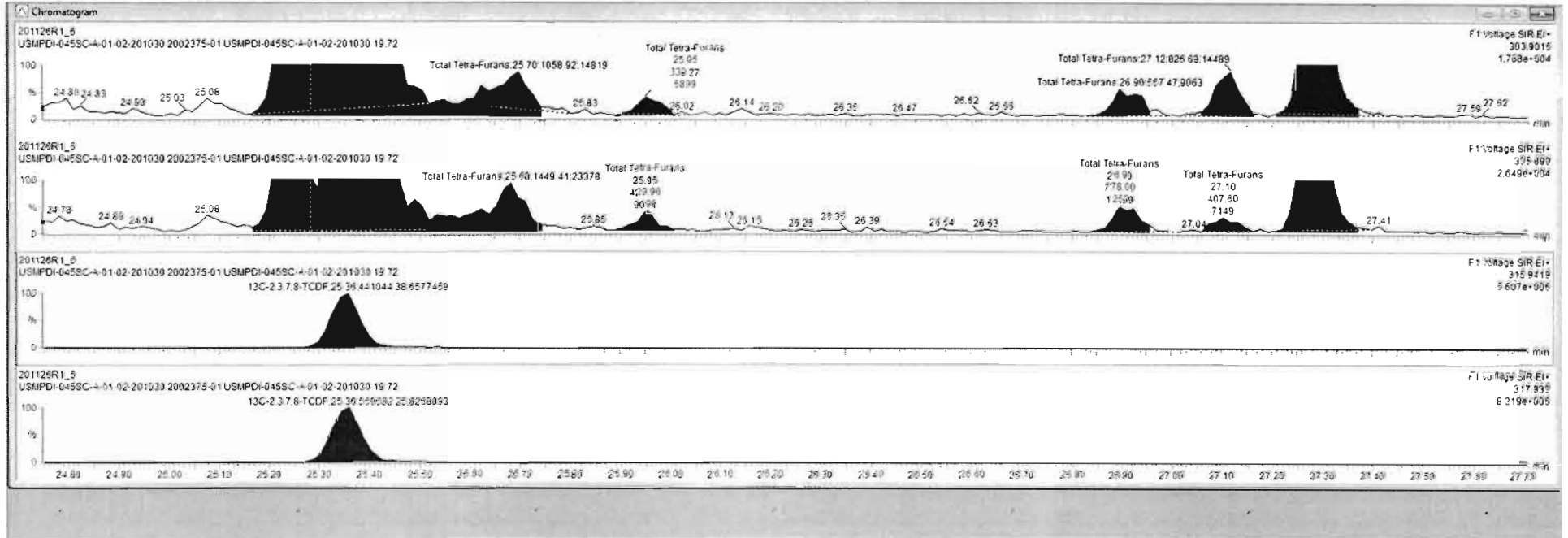
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Furans	20.55	3.232e2	3.876e2	0.85	NO	0.43342	0.43342
2 Total Tetra-Furans	21.35	3.238e3	4.402e3	0.74	NO	1.8486	1.8486
3 Total Tetra-Furans	21.74	2.516e2	4.888e2	0.75	NO	0.19849	0.19849
4 Total Tetra-Furans	21.83	2.158e3	3.129e3	0.89	NO	1.2794	1.2794
5 Total Tetra-Furans	21.90	4.824e2	7.722e2	0.60	YES	0.25725	0.00000
6 Total Tetra-Furans	22.18	1.255e3	1.416e3	0.89	YES	0.60411	0.00000
7 Total Tetra-Furans	22.28	1.195e4	1.627e4	0.73	NO	6.8313	6.8313
8 Total Tetra-Furans	22.75	3.727e3	5.061e3	0.74	NO	2.1284	2.1284



201126R1_6 - 2002375-01 USMPDI-045SC-A-01-02-201030 19 72 - USMPDI-045SC-A-01-02-201030

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.018			77.3		0.108	78.3
44 1st Func. Penta-Furans				0.9626	10.018			5.06		0.0221	5.06
45 Total Penta-Furans				0.9626	10.018			144		0.275	144
46 Total Hexa-Furans				0.9907	10.018			75.1		0.288	75.4
47 Total Hepta-Furans				0.9996	10.018			51.8		0.316	52.1
48 PK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.55	8.232e2	9.679e2	0.85	NO	3.43342	0.43342
2 Total Tetra-Furans	21.35	3.236e3	4.402e3	0.74	NO	1.8486	1.8486
3 Total Tetra-Furans	21.74	3.519e2	4.439e2	0.79	NO	0.15252	0.19352
4 Total Tetra-Furans	21.83	2.153e2	3.129e2	0.69	NO	1.2794	1.2794
5 Total Tetra-Furans	21.95	4.624e2	7.722e2	0.60	YES	0.25725	0.05060



Ready

201126R1_6

CAP RUN

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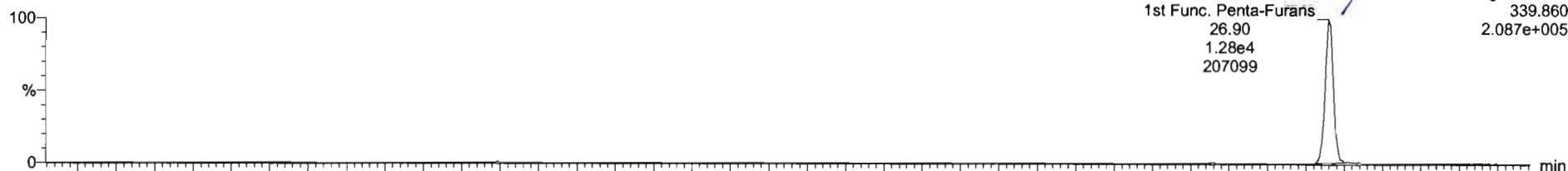
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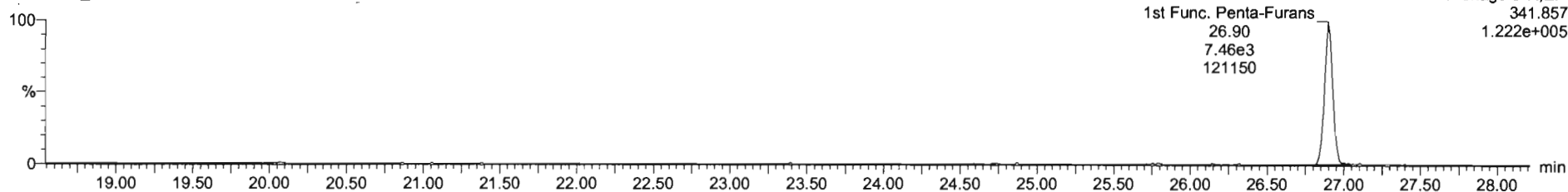
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1st Func. Penta-Furans

201126R1_6

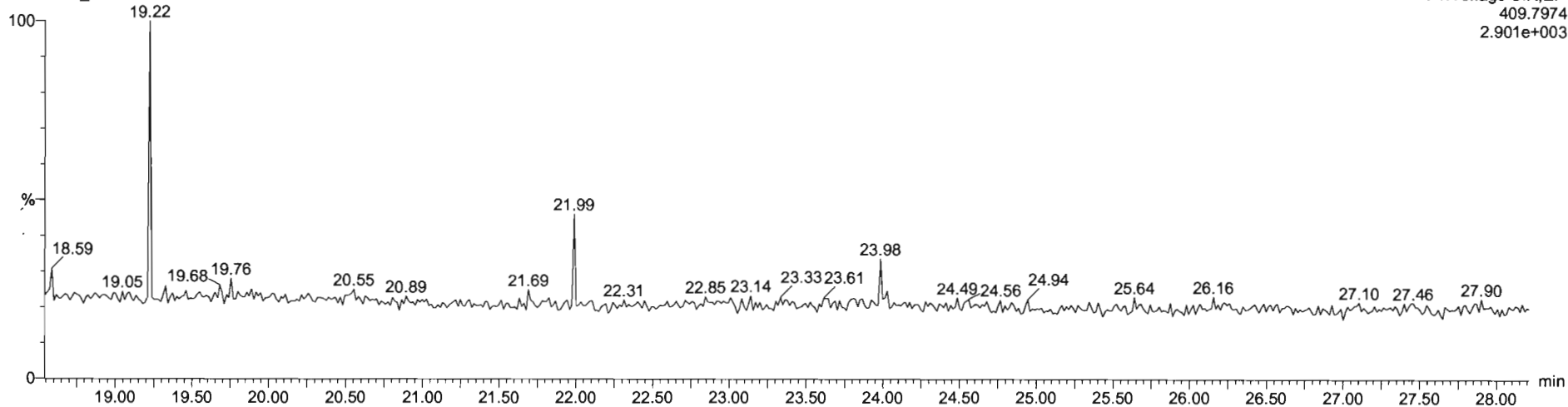


201126R1_6



DPE6

201126R1_6



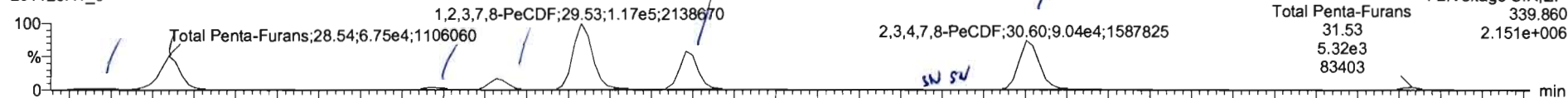
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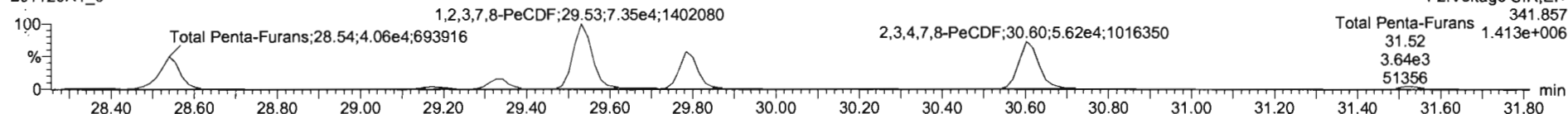
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1,2,3,7,8-PeCDF

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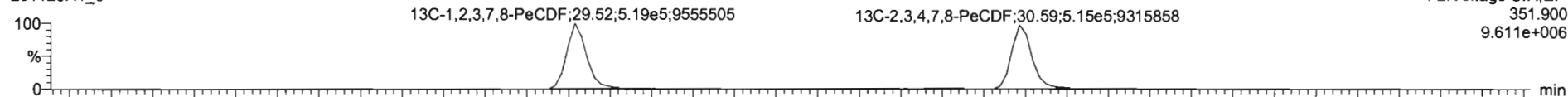


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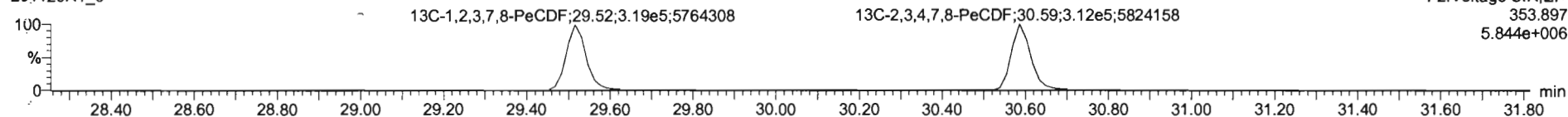


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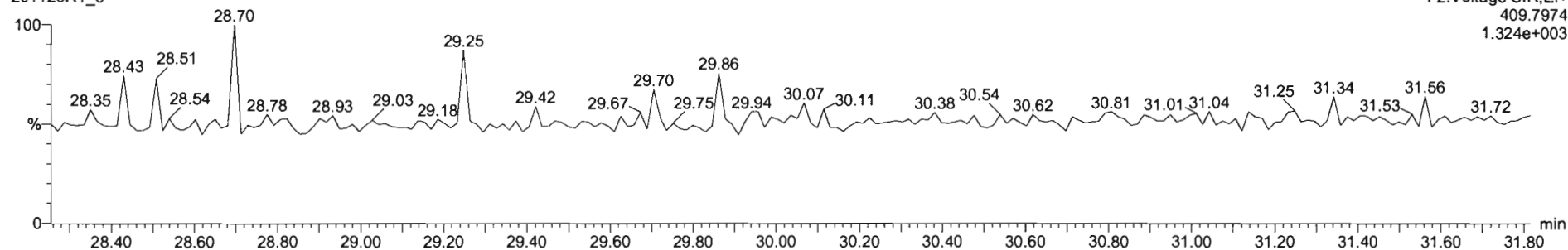


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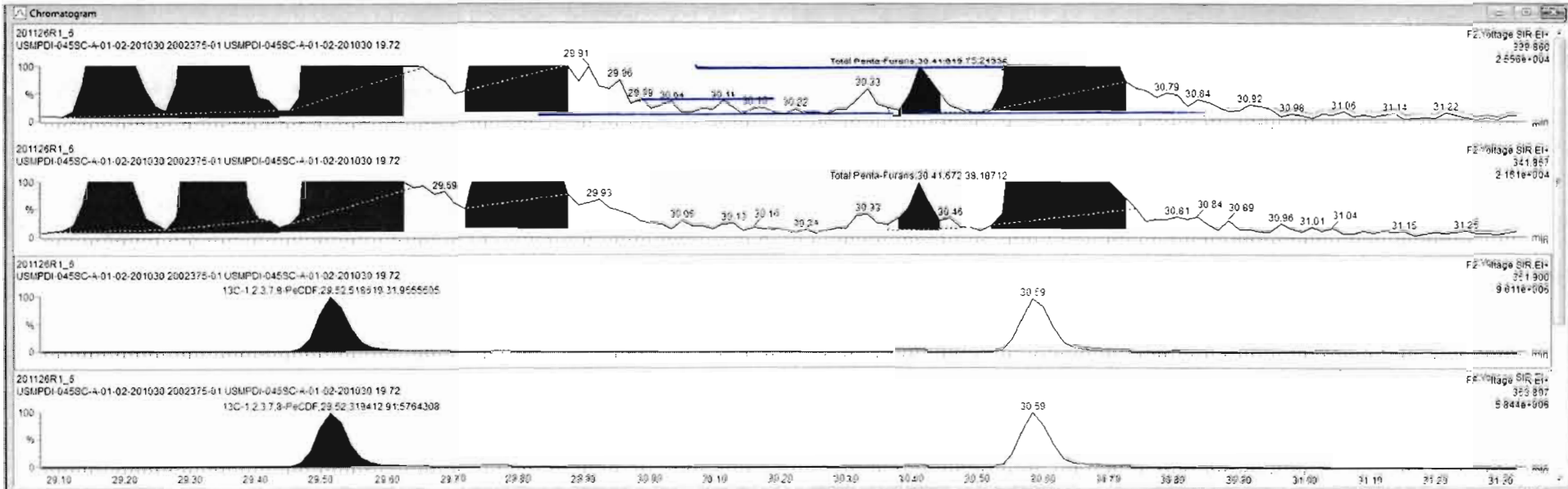
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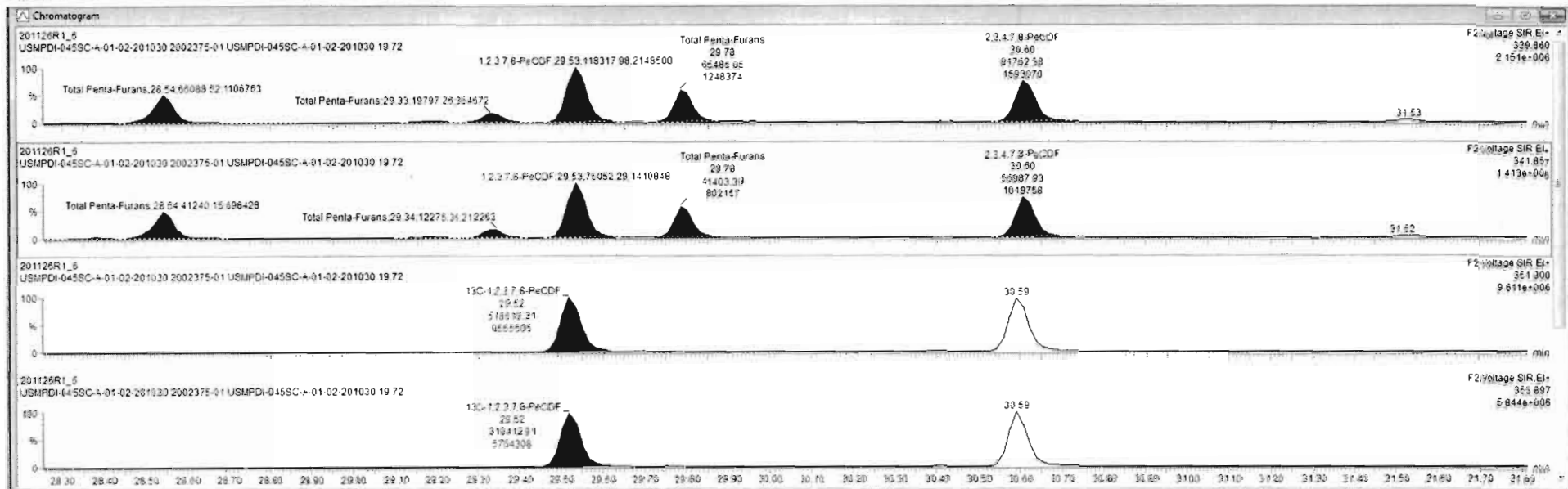
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.018			77.3	0.108	78.3	
44 1st Func. Penta-Furans				0.9626	10.018			5.06	0.0221	5.06	
45 Total Penta-Furans				0.9626	10.018			146	0.275	147	
46 Total Hexa-Furans				0.9907	10.018			75.1	0.289	75.4	
47 Total Hepta-Furans				0.9906	10.018			51.8	0.316	52.1	
48 PFK1											

Name	RT	mt Resp	n2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.38	3.840e3	2.615e3	1.51	NO	1.6332	1.6332
2 Total Penta-Furans	28.54	6.409e4	4.124e4	1.60	NO	26.743	26.743
3 Total Penta-Furans	29.17	4.896e3	2.931e3	1.60	NO	1.9205	1.9205
4 Total Penta-Furans	29.33	1.960e4	1.223e4	1.61	NO	7.9515	7.9515
5 1,2,3,7,8-PeCDF	29.53	1.181e5	7.505e4	1.58	NO	47.256	47.856



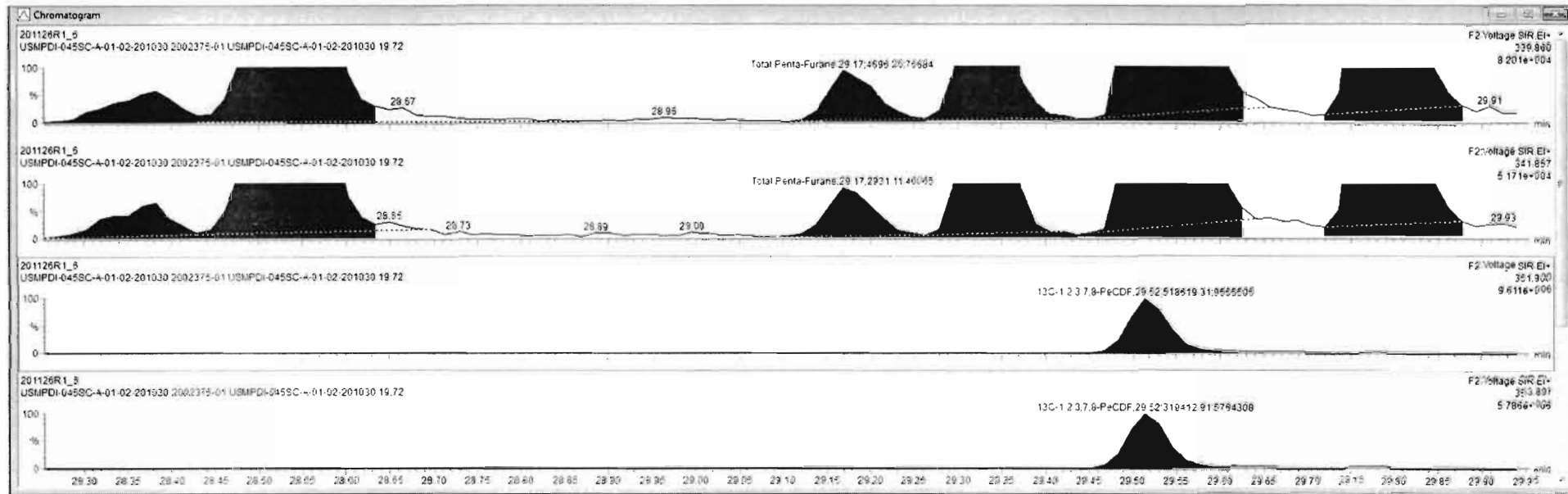
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.018			77.1		0.106	78.3
44 1st Func. Penta-Furans				0.5626	10.018			5.39		0.0221	5.06
45 Total Penta-Furans				0.9626	10.018			146		0.275	146
46 Total Hexa-Furans				0.9907	10.018			75.1		0.289	75.4
47 Total Hepta-Furans				0.5936	10.018			51.6		0.236	52.1
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.78	3.840e3	2.815e3	1.51	NO	1.6332	1.6332
2 Total Penta-Furans	28.54	6.809e4	4.124e4	1.60	NO	26.743	26.743
3 Total Penta-Furans	29.17	4.696e3	2.931e3	1.66	NO	1.9005	1.9005
4 Total Penta-Furans	29.33	1.980e4	1.228e4	1.61	NO	7.9915	7.9915
5 1,2,3,7,8-PeCDF	29.53	1.183e5	7.505e4	1.58	NO	47.856	47.856



#	Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8243	10.918			77.3		0.108	75.3
44	1st Func. Penta-Furans				0.9626	10.913			5.08		0.0221	5.08
45	Total Penta-Furans				0.9626	10.918			146		0.275	146
46	Total Hexa-Furans				0.9907	10.918			75.1		0.289	75.4
47	Total Hepta-Furans				0.9986	10.913			51.8		0.216	52.1
48	PKX1											

#	Name	RT	int Resp	int Resp	RA	ny	EMPC	Conc
1	Total Penta-Furans	28.28	3.840e3	2.615e3	1.51	NO	1.6332	1.6332
2	Total Penta-Furans	28.54	6.809e4	4.124e4	1.60	NO	26.743	26.743
3	Total Penta-Furans	29.17	4.896e3	2.931e3	1.66	NO	1.9005	1.9005
4	Total Penta-Furans	29.32	1.880e4	1.228e4	1.61	NO	7.9915	7.9915
5	1,2,3,7,8-PeCDF	29.53	1.183e6	7.585e4	1.58	NO	47.858	47.858



Ready

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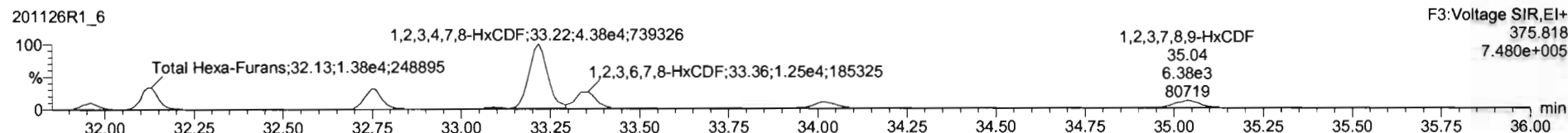
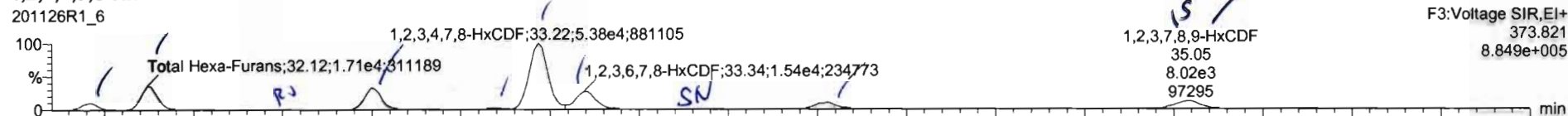
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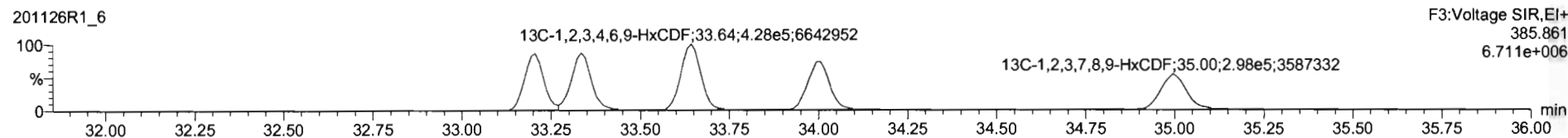
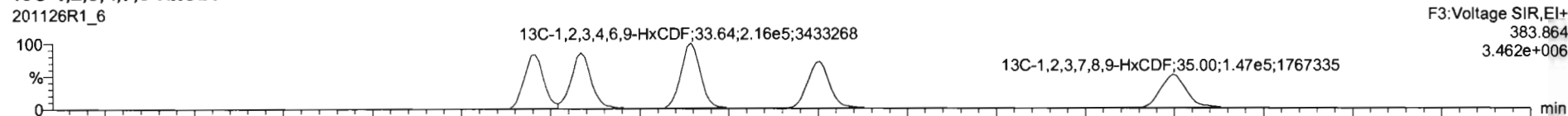
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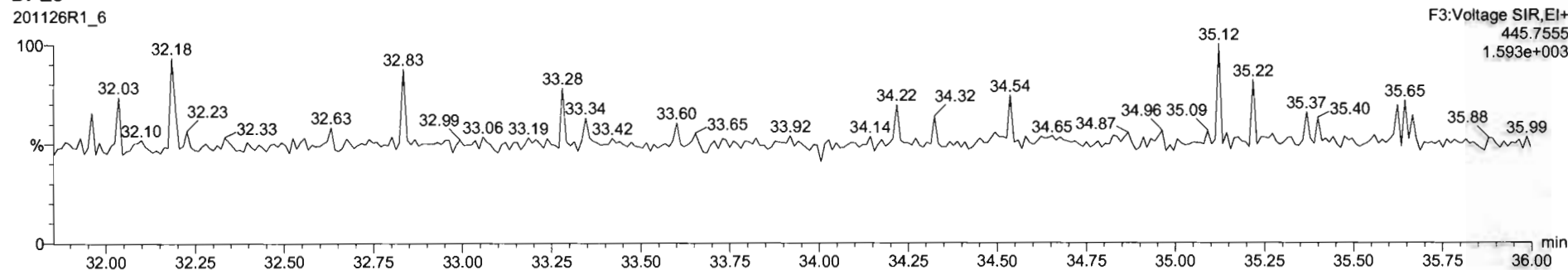
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13C-1,2,3,4,7,8-HxCDF

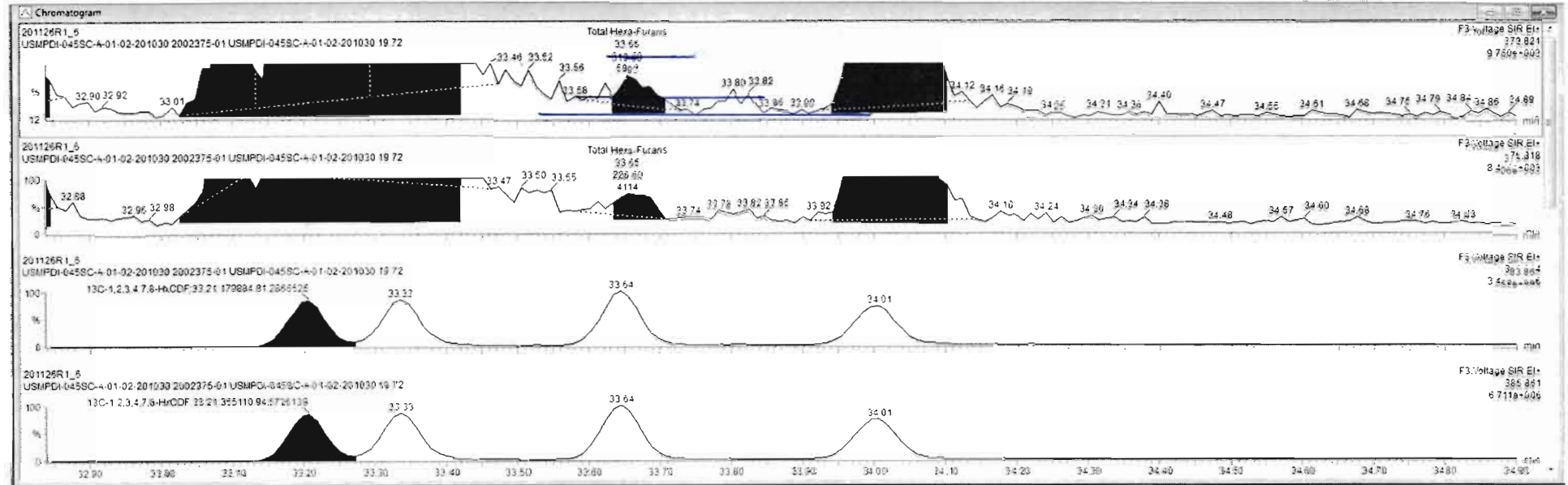


DPE3



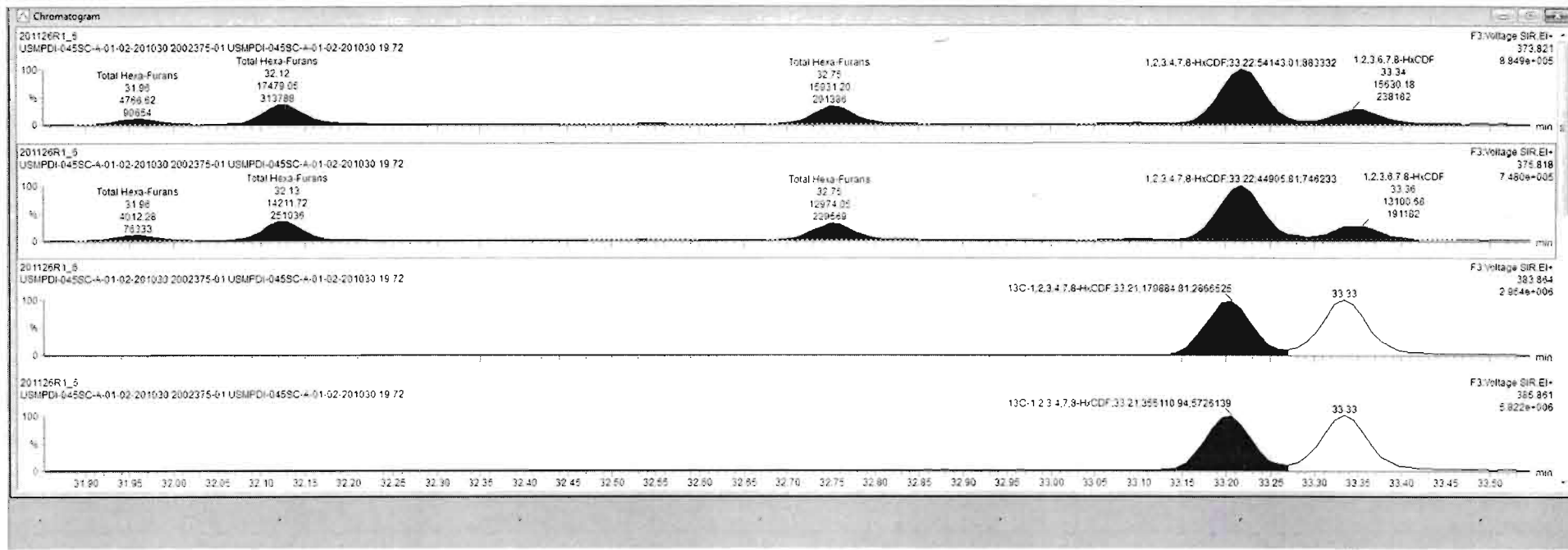
#	Name	Resp	RA	n1	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
25	13C-1,2,3,4,7,8-HxCDF	1.00e6	0.79	ND	0.5814	10.015	26.36	1.001	175	87.5	0.321	
26	13C-1,2,3,4,7,8-PeCDF	8.36e5	1.62	ND	0.7917	10.015	29.52	1.187	182	90.9	0.193	
27	13C-1,2,3,4,7,8-PeCDF	8.27e5	1.65	ND	0.7777	10.015	30.58	1.210	182	91.3	0.603	
28	13C-1,2,3,4,7,8-HxCDF	5.35e5	0.51	ND	0.9637	10.018	33.21	0.987	174	87.1	0.573	
29	13C-1,2,3,6,7,8-HxCDF	5.54e5	0.51	ND	1.0059	10.015	33.33	0.991	171	85.6	0.543	
30	13C-1,2,3,4,6,7,8-HxCDF	5.15e5	0.50	ND	0.9210	10.015	34.01	1.011	174	86.9	0.594	

#	Name	RT	m1 Resp	n2 Resp	RA	n1	EMPC	Conc
1	Total Hexa-Furans	21.96	4.787e3	4.012e3	1.19	ND	2.4521	3.4521
2	Total Hexa-Furans	22.12	1.748e4	1.431e4	1.23	ND	12.482	12.482
3	Total Hexa-Furans	32.54	2.556e2	2.344e2	1.52	YES	2.296e9	0.02060
4	Total Hexa-Furans	32.75	1.592e4	1.297e4	1.22	ND	11.385	11.385
5	Total Hexa-Furans	33.10	1.075e3	1.002e3	1.07	ND	2.816e4	0.81684



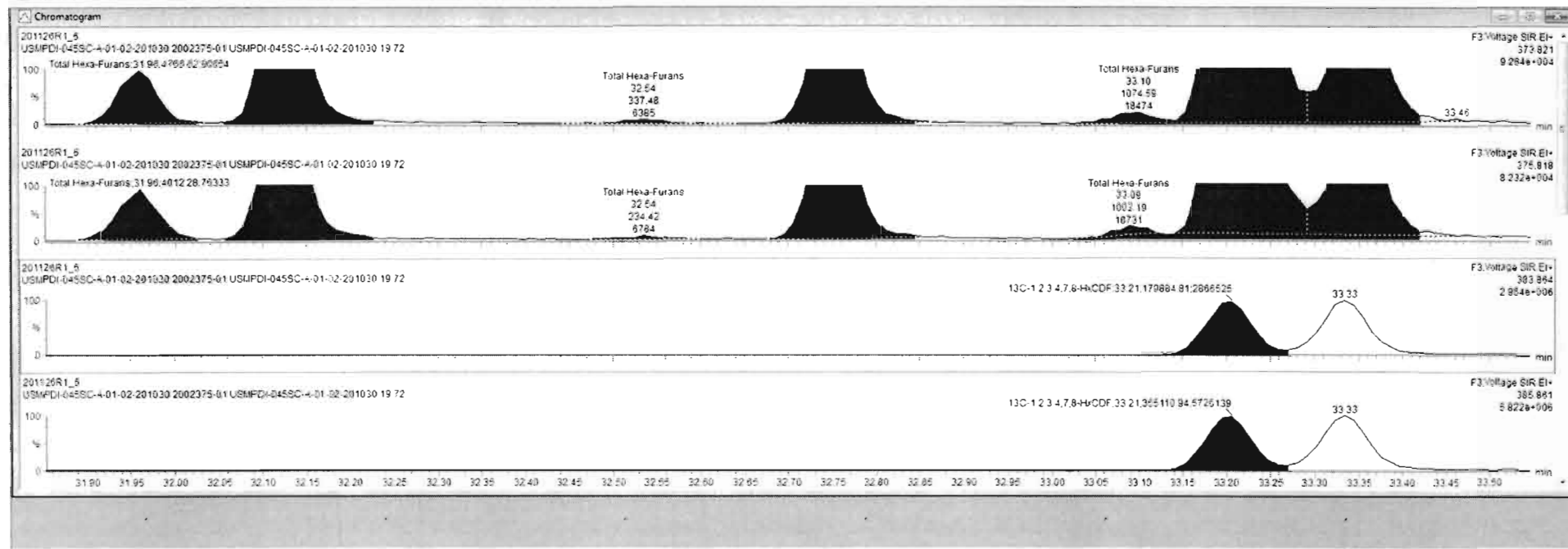
#	Name	Resp	RA	nly	RRF	rsVol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8243	10.018			77.7		0.108	78.3
44	1st Func. Penta-Furans				0.9626	10.018			5.06		0.0221	5.06
45	Total Penta-Furans				0.9626	10.018			146		0.275	146
46	Total Hexa-Furans				0.9907	10.018			87.9		0.289	88.1
47	Total Hepta-Furans				0.8936	10.018			51.8		0.318	52.1
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Hexa-Furans	31.96	4.787e3	4.012e3	1.15	NO	3.4521	3.4521
2	Total Hexa-Furans	32.12	1.748e4	1.421e4	1.23	NO	12.482	12.482
3	Total Hexa-Furans	32.54	3.371e2	2.344e2	1.44	YES	0.2648	0.00002
4	Total Hexa-Furans	32.75	1.592e4	1.297e4	1.23	NO	11.368	11.368
5	Total Hexa-Furans	33.13	1.075e3	1.002e3	1.07	NO	0.81664	0.81664



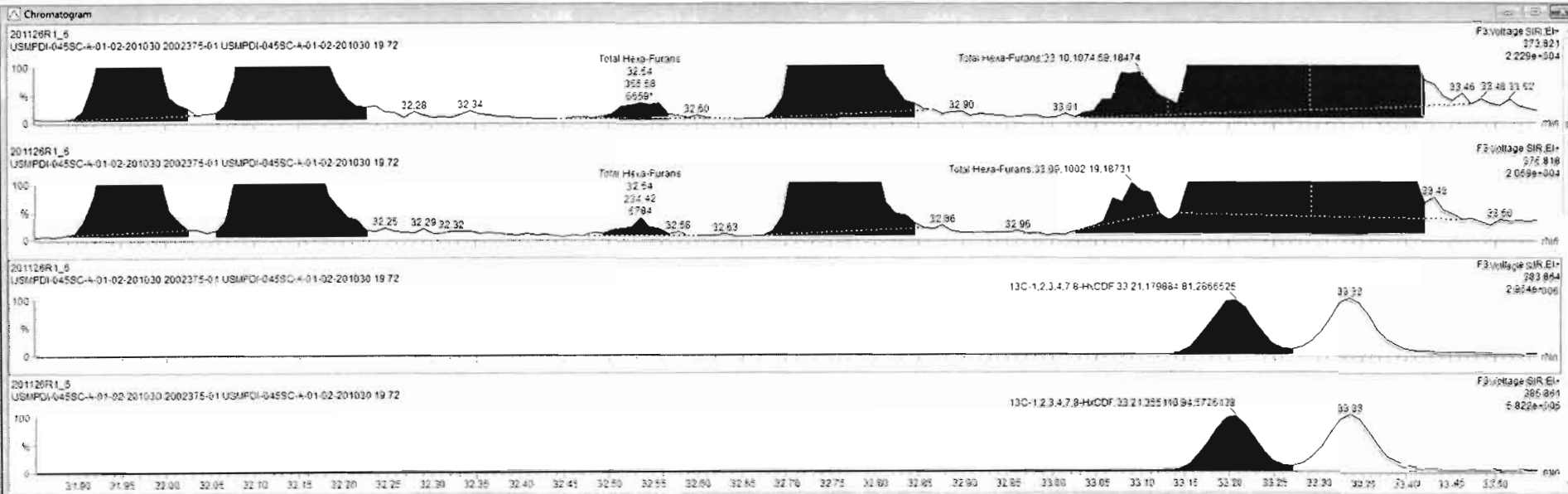
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25	13C-2,3,7,8-TCDF	1.60e5	0.79	NO	0.6014	10.018	25.36	1.003	175	67.5	0.321	
26	13C-1,2,3,7,8-PeCDF	8.36e5	1.62	NO	0.7917	10.018	29.52	1.167	182	90.9	0.593	
27	13C-2,3,4,7,8-PeCDF	8.27e5	1.65	NO	0.7777	10.018	30.55	1.210	182	91.3	0.603	
28	13C-1,2,3,4,7,8-HxCDF	5.35e5	0.51	NO	0.9637	10.018	33.21	0.987	174	87.1	0.573	
29	13C-1,2,3,6,7,8-HxCDF	5.54e5	0.51	NO	1.0059	10.018	33.33	0.991	171	85.6	0.543	
30	13C-2,3,4,6,7,8-HxCDF	5.15e5	0.50	NO	0.9210	10.018	34.01	1.011	174	86.9	0.594	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	31.96	4.787e3	4.012e3	1.19	NO	3.4521	3.4521
2	Total Hexa-Furans	32.12	1.748e4	1.421e4	1.23	NO	12.462	12.462
3	Total Hexa-Furans	32.54	3.375e2	2.344e2	1.44	YES	0.25648	0.00060
4	Total Hexa-Furans	32.75	1.593e4	1.297e4	1.23	NO	11.368	11.368
5	Total Hexa-Furans	33.10	1.075e3	1.002e3	1.07	NO	0.81664	0.81664



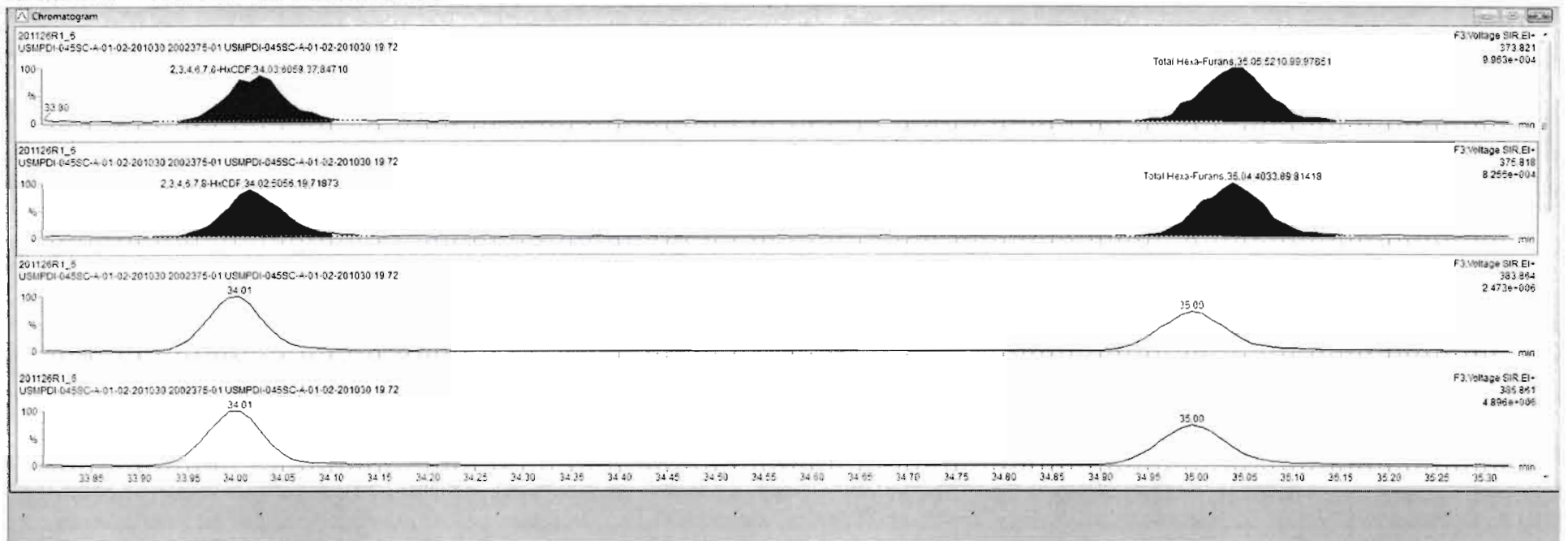
#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
25	13C-2,3,4,7,8-TCDF	1.00e6	0.79	NO	0.6814	10.018	25.36	1.003	175	87.6	0.321	
26	13C-1,2,3,7,8-PeCDF	8.38e5	1.82	NO	0.7917	10.018	29.52	1.187	182	90.9	0.563	
27	13C-2,3,4,7,8-PeCDF	6.27e5	1.85	NO	0.7777	10.018	30.59	1.210	182	91.3	0.602	
28	13C-1,2,3,4,7,8-HxCDF	4.28e5	0.51	NO	0.9637	10.018	33.21	0.987	174	87.1	0.573	
29	13C-1,2,3,6,7,8-HxCDF	6.54e5	0.51	NO	1.0059	10.018	33.33	0.991	171	85.6	0.543	
30	13C-2,3,4,6,7,8-HxCDF	5.15e5	0.50	NO	0.9210	10.018	34.01	1.011	174	86.9	0.594	

#	Name	RT	mt Resp	n2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	31.96	4.787e3	4.012e2	1.18	NO	3.4521	3.4521
2	Total Hexa-Furans	32.12	1.748e4	1.421e4	1.23	NO	12.402	12.482
3	Total Hexa-Furans	32.54	2.375e2	2.344e2	1.44	YES	0.20648	0.00000
4	Total Hexa-Furans	32.75	1.593e4	1.297e4	1.23	NO	11.366	11.366
5	Total Hexa-Furans	33.10	1.075e3	1.002e3	1.07	NO	0.81664	0.81664



Name	Resp	RA	n/y	RRF	wDval	RT	RRT	Conc	%Rec	DL	EMPC
75	13C-2,3,7,8-TCDF	1.60e6	0.79	NO	0.884	10.018	25.30	1.003	175	87.8	0.321
26	13C-1,2,3,7,8-PeCDF	3.38e5	1.82	NO	0.7917	10.018	29.53	1.167	152	90.9	0.553
27	13C-2,3,4,7,8-PeCDF	8.27e5	1.65	NO	0.7777	10.018	30.58	1.216	152	91.3	0.602
76	13C-1,2,3,4,7,8-HxCDF	5.35e5	0.51	NO	0.9637	10.018	33.21	0.987	174	87.1	0.573
28	13C-1,2,3,6,7,8-HxCDF	5.54e5	0.51	NO	1.0058	10.018	33.31	0.991	171	86.8	0.543
30	13C-2,3,4,6,7,8-HxCDF	5.15e5	0.50	NO	0.9210	10.018	34.01	1.011	174	86.5	0.594

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	31.96	4.787e3	4.012e3	1.19	NO	3.4521
2	Total Hexa-Furans	32.12	1.748e4	1.421e4	1.22	NO	12.461
3	Total Hexa-Furans	32.54	3.556e2	2.344e2	1.52	YES	0.236e-8
4	Total Hexa-Furans	32.75	1.592e4	1.297e4	1.23	NO	11.368
5	Total Hexa-Furans	33.10	1.075e3	1.030e3	1.07	NO	0.81664



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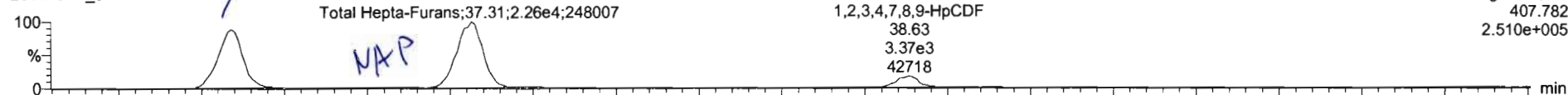
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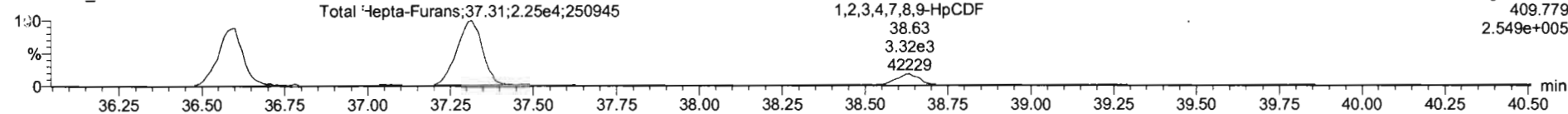
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1,2,3,4,6,7,8-HpCDF

201126R1_6

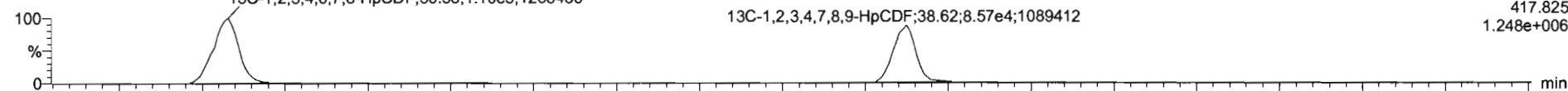


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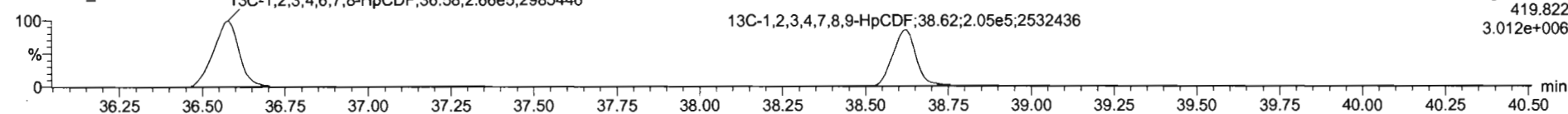


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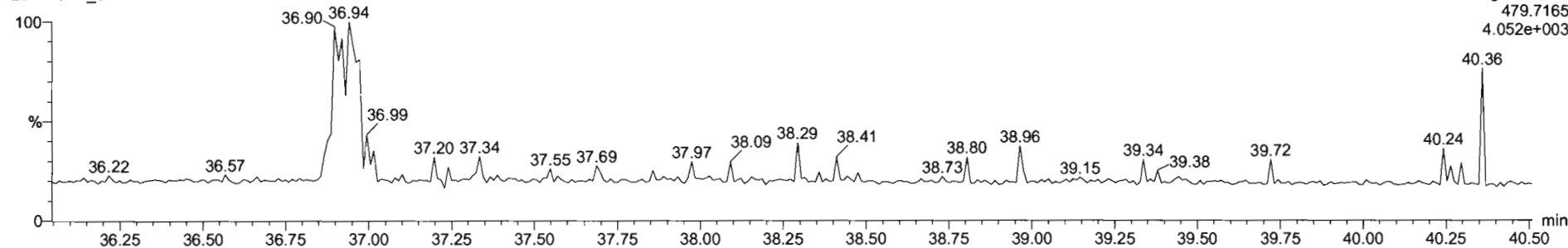


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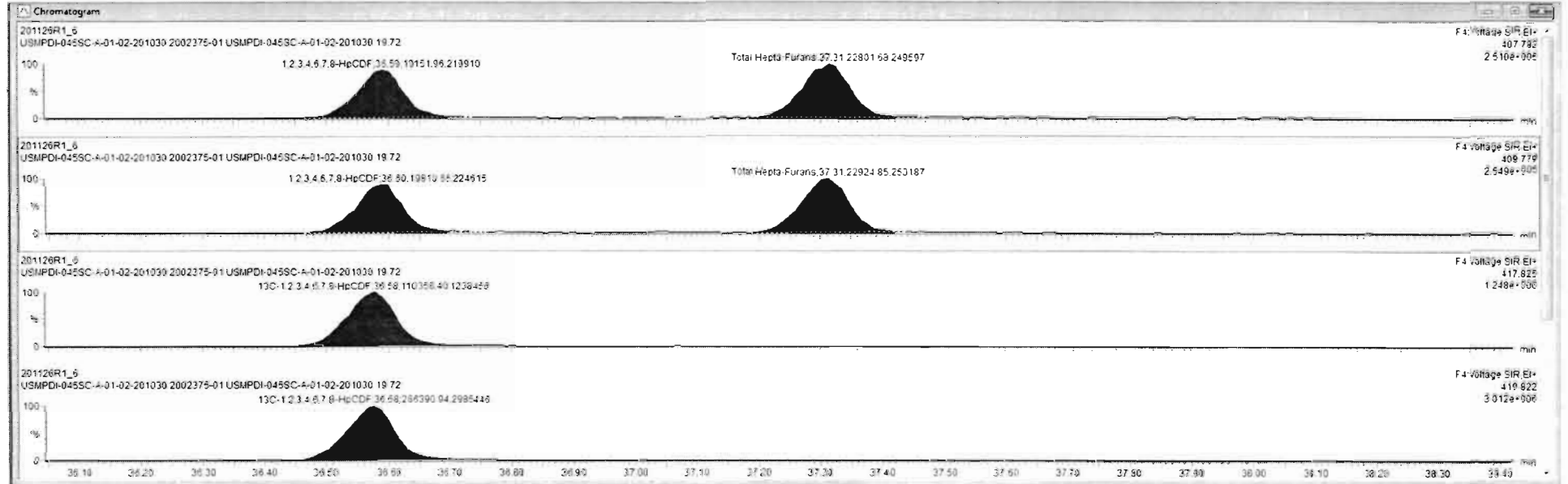
DPE4

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Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9907	10.018			87.6		0.289	87.9
47 Total Hepta-Furans				0.9906	10.018			52.2		0.316	52.5
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

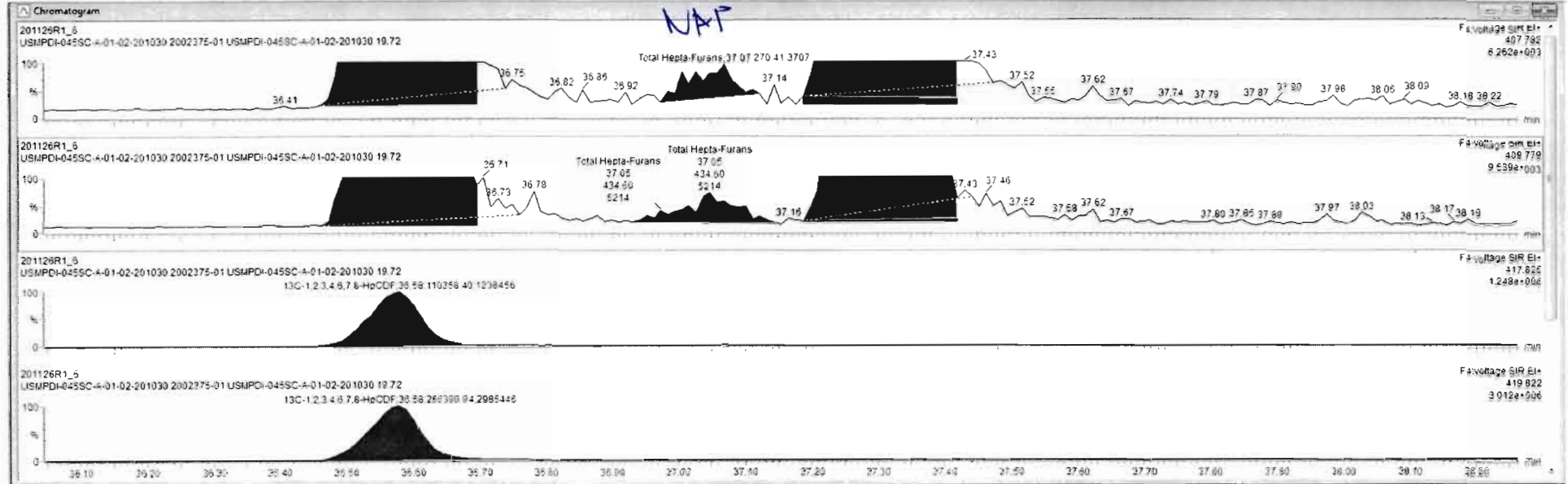
Name	RT	Int Resp	Int Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HxCDF	36.59	1.515e4	1.581e4	0.97	NO	20.878	20.878
2 Total Hepta-Furans	37.07	2.704e2	4.345e2	0.62	YES	0.31792	0.00000
3 Total Hepta-Furans	37.31	2.281e4	2.292e4	0.99	NO	27.407	27.407



201126R1_6 - 2002375-01 USMPDI-045SC-A-01-02-201030 19.72 - USMPDI-045SC-A-01-02-201030

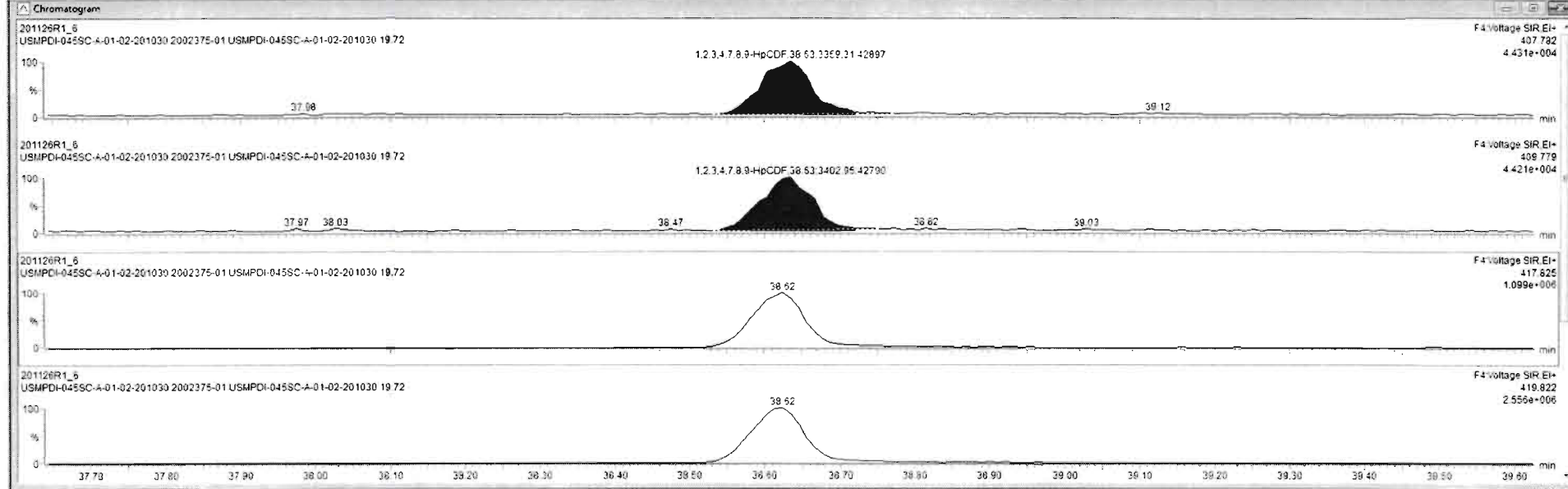
Name	Resp	RA	nly	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans			0.9807	10.018			87.6		0.269	57.9
47	Total Hepta-Furans			0.9968	10.018			52.1		0.316	52.4
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	1.2,3,4,6,7,8-HpCDF	36.59	1.915e4	1.881e4	0.97	NO	20.676
2	Total Hepta-Furans	37.07	2.704e2	4.348e2	0.62	YES	0.31792
3	Total Hepta-Furans	37.31	2.281e4	2.284e4	0.99	NO	27.243



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans			0.9907	10.018			87.8		0.269	87.9
47	Total Hepta-Furans			0.9986	10.018			52.2		0.316	52.5
48	PFK1										
49	PFK2										
50	PFK3										
51	PFK4										

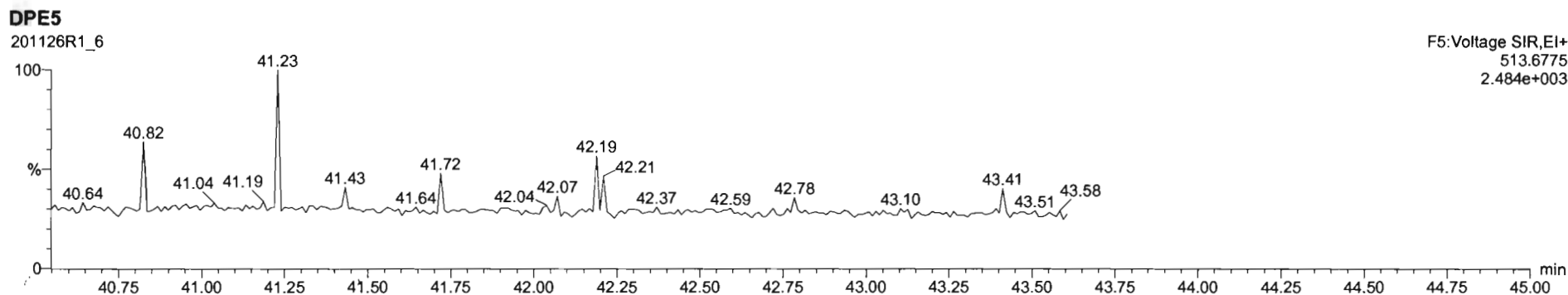
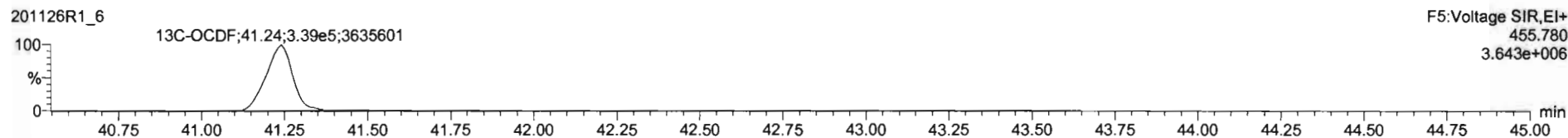
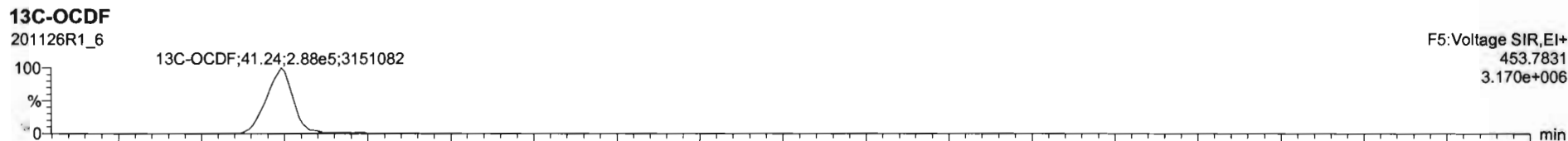
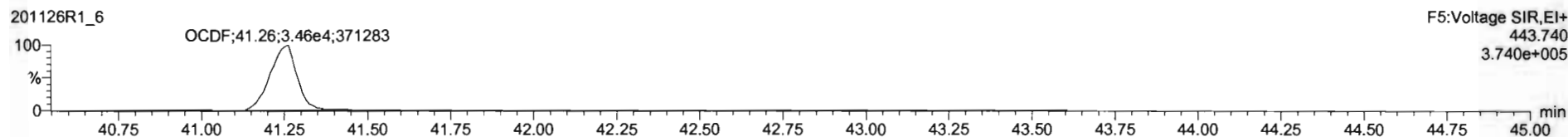
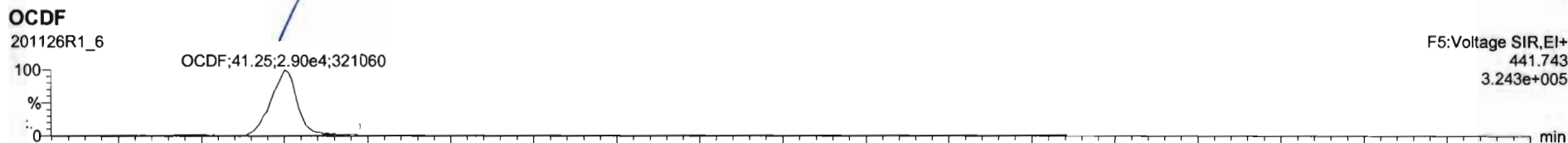
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	38.59	1.915e4	1.981e4	0.97	NO	20.876	20.876
2 Total Hepta-Furans	37.07	2.794e2	4.346e2	0.62	YES	0.31792	0.60000
3 Total Hepta-Furans	37.31	2.280e4	2.292e4	0.99	NO	27.407	27.407



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Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

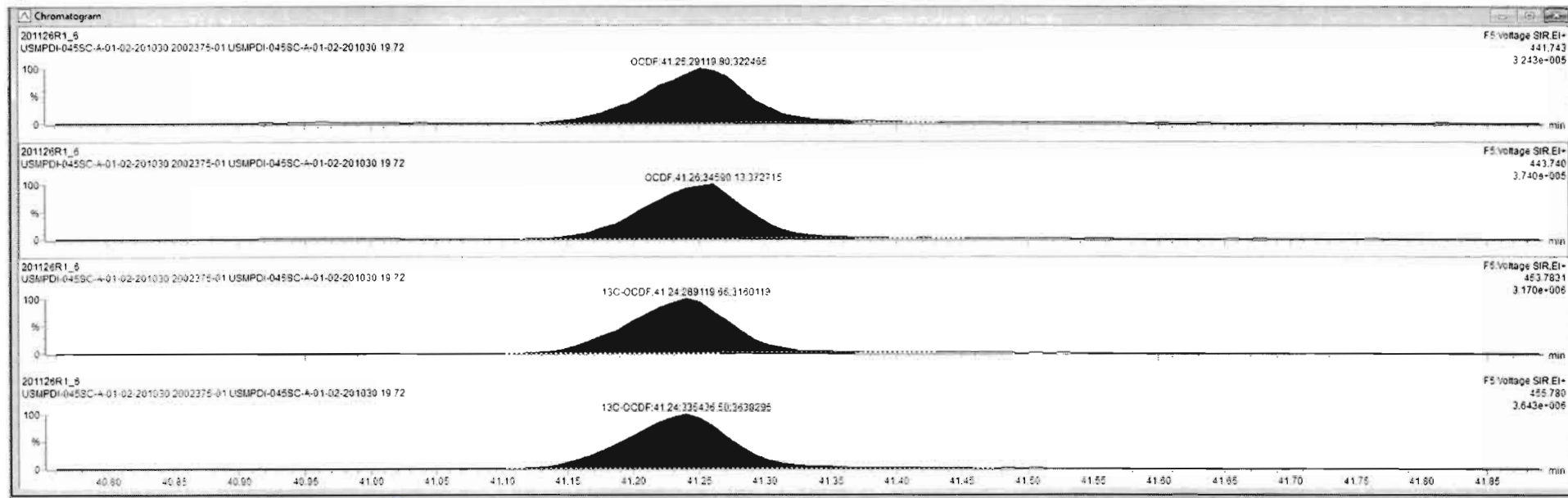
Name: 201126R1_6, Date: 26-Nov-2020, Time: 12:21:08, ID: 2002375-01 USMPDI-045SC-A-01-02-201030 19.72, Description: USMPDI-045SC-A-01-02-201030



201126R1_6 - 2002375-01 USMPDI-045SC-A-01-02-201030 19 72 - USMPDI-045SC-A-01-02-201030

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	6.37e4	0.84	NO	0.6632	10.018	41.25	1.000	46.9	0.369	48.9
18	13C-2,3,7,8-TCDD	6.18e5	0.81	NO	1.1059	10.018	28.04	1.030	156	93.1	0.282
19	13C-1,2,3,7,8-PeCDD	4.18e5	0.66	NO	0.8558	10.018	30.73	1.218	163	81.8	0.416
20	13C-1,2,3,4,7,8-HxCDD	3.77e5	1.32	NO	0.8997	10.018	34.11	1.014	167	83.7	0.511
21	13C-1,2,3,6,7,8-HxCDD	4.43e5	1.34	NO	0.8327	10.018	34.23	1.017	166	82.5	0.430
22	13C-1,2,3,7,8-HxCDD	4.37e5	1.32	NO	0.7818	10.018	34.51	1.028	170	89.2	0.476

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

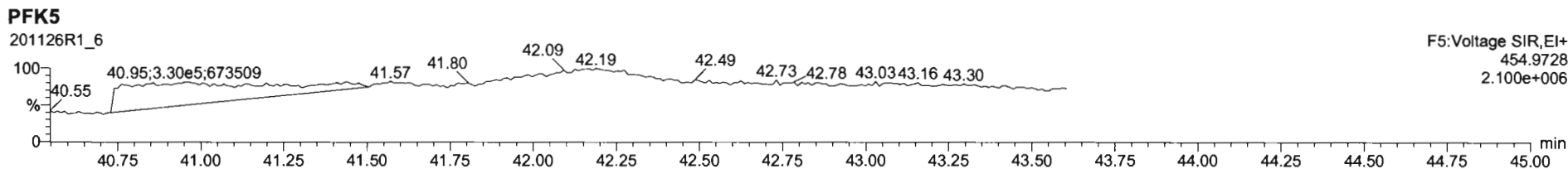
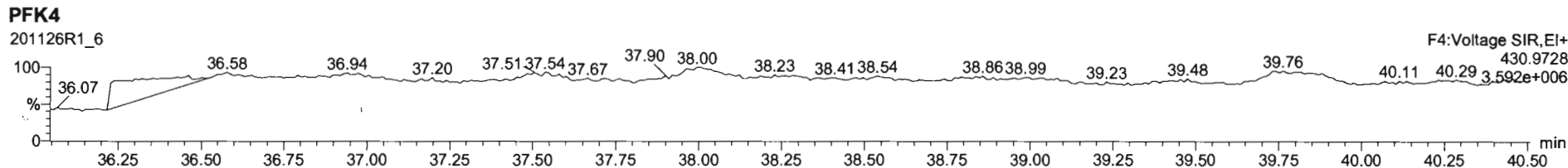
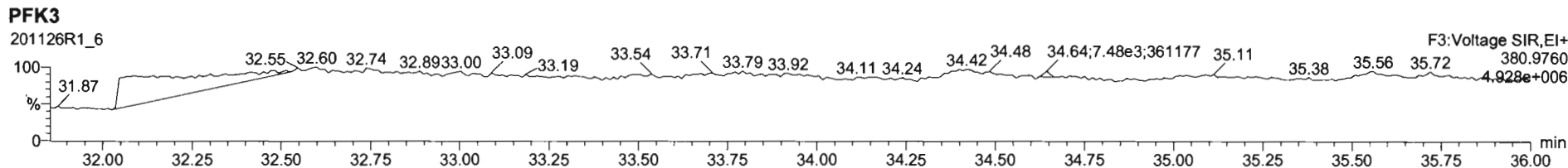
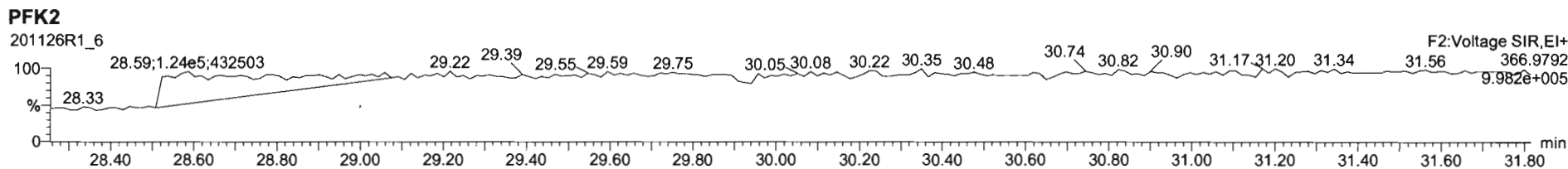
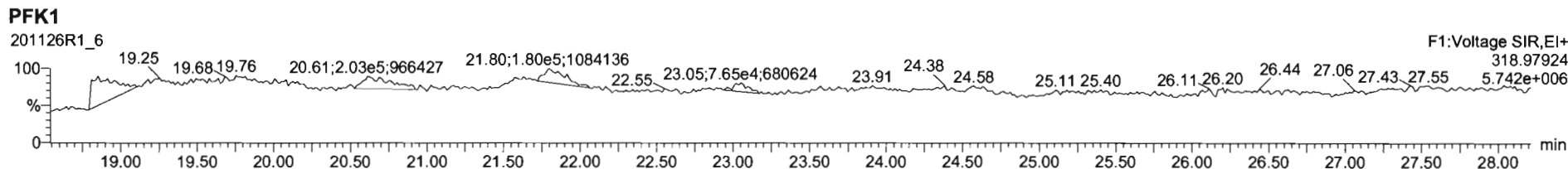


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Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time

Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_6, Date: 26-Nov-2020, Time: 12:21:08, ID: 2002375-01 USMPDI-045SC-A-01-02-201030 19.72, Description: USMPDI-045SC-A-01-02-201030



Dataset: U:\VG12.PRO\Results\201126R1\201126R1-7.qld
 Last Altered: Wednesday, December 02, 2020 2:44:39 PM Pacific Standard Time
 Printed: Wednesday, December 02, 2020 2:46:21 PM Pacific Standard Time

HK 12/02/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
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C: 12/09/2020

Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	5.72e2	0.75	NO	0.950	10.291	26.068	26.10	1.001	1.002	0.93296		0.507	0.933
2	2 1,2,3,7,8-PeCDD	1.09e3	0.67	NO	0.885	10.291	30.784	30.82	1.000	1.002	1.4925		0.735	1.49
3	3 1,2,3,4,7,8-HxCDD	1.77e3	1.28	NO	1.02	10.291	34.111	34.11	1.000	1.000	1.3736		0.506	1.37
4	4 1,2,3,6,7,8-HxCDD	1.02e4	1.30	NO	0.915	10.291	34.239	34.24	1.000	1.000	7.0276		0.474	7.03
5	5 1,2,3,7,8,9-HxCDD	6.02e3	1.16	NO	0.934	10.291	34.505	34.50	1.000	1.000	3.3454		0.408	3.35
6	6 1,2,3,4,6,7,8-HpCDD	2.06e5	1.02	NO	0.870	10.291	37.995	38.01	1.000	1.000	146.91		1.89	147
7	7 OCDD	2.26e6	0.88	NO	0.872	10.291	40.931	40.95	1.000	1.001	1961.5		1.14	1960
8	8 2,3,7,8-TCDF	1.27e4	0.74	NO	0.824	10.291	25.352	25.37	1.000	1.001	17.125		0.340	17.1
9	9 1,2,3,7,8-PeCDF	4.81e4	1.62	NO	0.963	10.291	29.525	29.53	1.000	1.001	35.273		0.446	35.3
10	10 2,3,4,7,8-PeCDF	1.93e4	1.62	NO	1.07	10.291	30.587	30.60	1.000	1.000	15.441		0.499	15.4
11	11 1,2,3,4,7,8-HxCDF	9.69e4	1.21	NO	0.953	10.291	33.196	33.22	1.000	1.001	60.451		0.324	60.5
12	12 1,2,3,6,7,8-HxCDF	2.94e4	1.19	NO	1.01	10.291	33.324	33.34	1.000	1.001	14.830		0.275	14.8
13	13 2,3,4,6,7,8-HxCDF	7.02e3	1.26	NO	0.991	10.291	33.997	34.02	1.000	1.001	3.3120		0.263	3.31
14	14 1,2,3,7,8,9-HxCDF	7.28e3	1.14	NO	0.951	10.291	34.996	35.04	1.000	1.001	4.6220		0.441	4.62
15	15 1,2,3,4,6,7,8-HpCDF	7.22e4	1.02	NO	0.999	10.291	36.572	36.58	1.000	1.000	40.789		0.522	40.8
16	16 1,2,3,4,7,8,9-HpCDF	1.47e4	1.02	NO	1.12	10.291	38.624	38.63	1.000	1.000	10.486		0.545	10.5
17	17 OCDF	1.19e5	0.84	NO	0.868	10.291	41.237	41.24	1.000	1.000	94.992		0.453	95.0
18	18 13C-2,3,7,8-TCDD	1.25e5	0.82	NO	1.11	10.291	26.028	26.04	1.030	1.030	39.298	20.2	0.234	
19	19 13C-1,2,3,7,8-PeCDD	1.60e5	0.65	NO	0.859	10.291	30.738	30.77	1.216	1.218	64.952	33.4	0.347	
20	20 13C-1,2,3,4,7,8-HxCDD	2.46e5	1.29	NO	0.700	10.291	34.111	34.10	1.014	1.014	116.43	59.9	0.583	
21	21 13C-1,2,3,6,7,8-HxCDD	3.08e5	1.29	NO	0.833	10.291	34.249	34.23	1.018	1.017	122.80	63.2	0.489	
22	22 13C-1,2,3,7,8,9-HxCDD	3.75e5	1.30	NO	0.762	10.291	34.491	34.49	1.025	1.025	163.13	83.9	0.535	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.13e5	1.04	NO	0.650	10.291	37.973	37.99	1.129	1.129	159.74	82.2	0.985	
24	24 13C-OCDD	5.14e5	0.88	NO	0.539	10.291	40.937	40.93	1.217	1.217	315.98	81.3	0.583	
25	25 13C-2,3,7,8-TCDF	1.74e5	0.75	NO	0.981	10.291	25.351	25.34	1.003	1.003	31.836	16.4	0.318	
26	26 13C-1,2,3,7,8-PeCDF	2.76e5	1.63	NO	0.792	10.291	29.472	29.52	1.166	1.168	62.437	32.1	0.444	
27	27 13C-2,3,4,7,8-PeCDF	2.27e5	1.61	NO	0.778	10.291	30.529	30.59	1.208	1.210	52.444	27.0	0.452	
28	28 13C-1,2,3,4,7,8-HxCDF	3.27e5	0.49	NO	0.954	10.291	33.202	33.20	0.987	0.987	113.66	58.5	0.740	
29	29 13C-1,2,3,6,7,8-HxCDF	3.82e5	0.51	NO	1.01	10.291	33.333	33.32	0.991	0.991	126.11	64.9	0.702	
30	30 13C-2,3,4,6,7,8-HxCDF	4.16e5	0.51	NO	0.921	10.291	34.003	33.99	1.011	1.010	149.74	77.0	0.766	
31	31 13C-1,2,3,7,8,9-HxCDF	3.22e5	0.49	NO	0.803	10.291	34.999	35.00	1.040	1.040	132.99	68.4	0.878	

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-7.qld

Last Altered: Wednesday, December 02, 2020 2:44:39 PM Pacific Standard Time

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Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

#	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	3.45e5	0.42	NO	0.735	10.291	36.567	36.57	1.087	1.087	155.50	80.0	0.875	
33	13C-1,2,3,4,7,8,9-HpCDF	2.43e5	0.42	NO	0.568	10.291	38.602	38.62	1.147	1.148	141.97	73.1	1.13	
34	13C-OCDF	5.63e5	0.88	NO	0.629	10.291	41.219	41.23	1.225	1.225	296.99	76.4	0.495	
35	37Cl-2,3,7,8-TCDD	5.33e4			1.09	10.291	26.028	26.07	1.030	1.032	17.035	21.9	0.0722	
36	13C-1,2,3,4-TCDD	5.59e5	0.82	NO	1.00	10.291	25.370	25.27	1.000	1.000	194.35	100	0.259	
37	13C-1,2,3,4-TCDF	1.08e6	0.78	NO	1.00	10.291	23.870	23.76	1.000	1.000	194.35	100	0.312	
38	13C-1,2,3,4,6,9-HxCDF	5.86e5	0.49	NO	1.00	10.291	33.710	33.64	1.000	1.000	194.35	100	0.706	
39	Total Tetra-Dioxins				0.950	10.291	24.620		0.000		2.0071		0.507	2.60
40	Total Penta-Dioxins				0.885	10.291	29.960		0.000		7.2919		0.735	10.1
41	Total Hexa-Dioxins				0.915	10.291	33.635		0.000		66.938		0.474	68.3
42	Total Hepta-Dioxins				0.870	10.291	37.640		0.000		337.74		1.89	338
43	Total Tetra-Furans				0.824	10.291	23.610		0.000		47.436		0.340	51.7
44	1st Func. Penta-Furans				0.963	10.291	26.930		0.000		8.2920		0.0642	8.29
45	Total Penta-Furans				0.963	10.291	29.275		0.000		65.036		0.495	80.6
46	Total Hexa-Furans				0.991	10.291	33.555		0.000		123.94		0.314	124
47	Total Hepta-Furans				0.999	10.291	37.835		0.000		105.90		0.560	106

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-7.qld

Last Altered: Wednesday, December 02, 2020 2:44:39 PM 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_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.95	4.138e3	5.071e3	2.914e2	3.672e2	0.79	NO	6.586e2	1.0741	1.0741	0.507
2	Total Tetra-Dioxins	25.79	3.084e3	4.896e3	1.575e2	3.228e2	0.49	YES	0.000e0	0.00000	0.59035	0.507
3	2,3,7,8-TCDD	26.10	2.951e3	6.493e3	2.446e2	3.274e2	0.75	NO	5.720e2	0.93296	0.93296	0.507

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.51	1.432e4	2.360e4	1.081e3	1.828e3	0.59	NO	2.909e3	3.9781	3.9781	0.735
2	Total Penta-Dioxins	29.01	5.935e3	1.353e4	3.295e2	6.193e2	0.53	YES	0.000e0	0.00000	1.1659	0.735
3	Total Penta-Dioxins	29.50	9.742e3	1.360e4	5.507e2	7.548e2	0.73	YES	0.000e0	0.00000	1.6826	0.735
4	Total Penta-Dioxins	29.99	6.592e3	1.185e4	4.777e2	8.541e2	0.56	NO	1.332e3	1.8213	1.8213	0.735
5	1,2,3,7,8-PeCDD	30.82	7.951e3	1.024e4	4.379e2	6.535e2	0.67	NO	1.091e3	1.4925	1.4925	0.735

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.48	3.743e5	2.934e5	1.984e4	1.650e4	1.20	NO	3.634e4	24.961	24.961	0.474
2	Total Hexa-Dioxins	33.08	3.843e4	2.904e4	1.927e3	1.567e3	1.23	NO	3.493e3	2.3993	2.3993	0.474
3	Total Hexa-Dioxins	33.37	2.881e5	2.524e5	2.141e4	1.796e4	1.19	NO	3.937e4	27.039	27.039	0.474
4	Total Hexa-Dioxins	33.44	2.895e4	2.252e4	1.250e3	8.535e2	1.46	YES	0.000e0	0.00000	1.3132	0.474
5	1,2,3,4,7,8-HxCDD	34.11	1.462e4	1.168e4	9.903e2	7.754e2	1.28	NO	1.766e3	1.3736	1.3736	0.506
6	1,2,3,6,7,8-HxCDD	34.24	8.116e4	6.032e4	5.769e3	4.422e3	1.30	NO	1.019e4	7.0276	7.0276	0.474
7	Total Hexa-Dioxins	34.41	1.103e4	7.756e3	6.305e2	5.233e2	1.20	NO	1.154e3	0.79249	0.79249	0.474
8	1,2,3,7,8,9-HxCDD	34.50	4.399e4	3.646e4	3.238e3	2.786e3	1.16	NO	6.024e3	3.3454	3.3454	0.408

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.96	1.498e6	1.475e6	1.343e5	1.327e5	1.01	NO	2.670e5	190.83	190.83	1.89
2	1,2,3,4,6,7,8-HpCDD	38.01	1.287e6	1.266e6	1.039e5	1.017e5	1.02	NO	2.056e5	146.91	146.91	1.89

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-7.qld

Last Altered: Wednesday, December 02, 2020 2:44:39 PM Pacific Standard Time

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Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.34	1.154e4	1.784e4	1.010e3	1.548e3	0.65	YES	0.000e0	0.00000	3.1432	0.340
2	Total Tetra-Furans	21.81	5.572e3	7.486e3	3.196e2	4.662e2	0.69	NO	7.858e2	1.0638	1.0638	0.340
3	Total Tetra-Furans	22.25	1.654e4	2.566e4	1.601e3	2.154e3	0.74	NO	3.755e3	5.0829	5.0829	0.340
4	Total Tetra-Furans	23.10	3.926e3	4.937e3	3.023e2	4.297e2	0.70	NO	7.320e2	0.99095	0.99095	0.340
5	Total Tetra-Furans	23.90	9.383e3	1.363e4	1.281e3	1.730e3	0.74	NO	3.011e3	4.0763	4.0763	0.340
6	Total Tetra-Furans	24.35	6.125e4	8.336e4	4.634e3	6.271e3	0.74	NO	1.090e4	14.762	14.762	0.340
7	Total Tetra-Furans	25.24	1.053e4	1.546e4	6.831e2	8.902e2	0.77	NO	1.573e3	2.1299	2.1299	0.340
8	2,3,7,8-TCDF	25.37	7.057e4	1.048e5	5.371e3	7.280e3	0.74	NO	1.265e4	17.125	17.125	0.340
9	Total Tetra-Furans	25.61	3.880e3	2.673e3	1.703e2	1.628e2	1.05	YES	0.000e0	0.00000	0.39004	0.340
10	Total Tetra-Furans	25.67	4.103e3	6.329e3	3.136e2	4.677e2	0.67	NO	7.813e2	1.0576	1.0576	0.340
11	Total Tetra-Furans	26.90	4.683e3	8.371e3	2.327e2	3.630e2	0.64	YES	0.000e0	0.00000	0.72415	0.340
12	Total Tetra-Furans	27.28	5.724e3	8.461e3	3.535e2	4.941e2	0.72	NO	8.476e2	1.1474	1.1474	0.340

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	26.90	1.019e5	5.919e4	6.564e3	3.764e3	1.74	NO	1.033e4	8.2920	8.2920	0.0642

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.37	1.307e4	9.317e3	9.710e2	5.513e2	1.76	NO	1.522e3	1.2222	1.2222	0.495
2	Total Penta-Furans	28.49	3.665e4	2.937e4	1.054e3	7.279e2	1.45	NO	0.000e0	0.00000	1.4305	0.495
3	Total Penta-Furans	28.54	1.700e5	1.131e5	9.914e3	6.667e3	1.49	NO	0.000e0	0.00000	13.312	0.495
4	Total Penta-Furans	29.18	3.509e4	1.901e4	2.236e3	1.260e3	1.77	NO	3.496e3	2.8067	2.8067	0.495
5	Total Penta-Furans	29.33	3.553e4	2.289e4	2.039e3	1.421e3	1.43	NO	3.461e3	2.7784	2.7784	0.495
6	1,2,3,7,8-PeCDF	29.53	5.366e5	3.170e5	2.978e4	1.836e4	1.62	NO	4.814e4	35.273	35.273	0.446
7	Total Penta-Furans	29.78	9.185e4	5.778e4	5.694e3	3.665e3	1.55	NO	9.359e3	7.5144	7.5144	0.495
8	2,3,4,7,8-PeCDF	30.60	2.050e5	1.339e5	1.195e4	7.355e3	1.62	NO	1.930e4	15.441	15.441	0.499
9	Total Penta-Furans	31.45	1.002e4	3.478e3	3.813e2	1.203e2	3.17	YES	0.000e0	0.00000	0.24636	0.495
10	Total Penta-Furans	31.50	1.108e4	5.761e3	4.543e2	2.706e2	1.68	NO	0.000e0	0.00000	0.58200	0.495

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-7.qld

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Printed: Wednesday, December 02, 2020 2:46:21 PM Pacific Standard Time

Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.95	1.018e5	8.693e4	4.892e3	4.302e3	1.14	NO	9.194e3	4.9875	4.9875	0.314
2	Total Hexa-Furans	32.12	3.343e5	2.553e5	1.686e4	1.405e4	1.20	NO	3.092e4	16.771	16.771	0.314
3	Total Hexa-Furans	32.75	3.463e5	2.848e5	1.863e4	1.543e4	1.21	NO	3.406e4	18.476	18.476	0.314
4	Total Hexa-Furans	33.09	9.399e3	8.933e3	4.656e2	4.404e2	1.06	NO	9.060e2	0.49146	0.49146	0.314
5	1,2,3,4,7,8-HxCDF	33.22	8.642e5	7.203e5	5.299e4	4.389e4	1.21	NO	9.688e4	60.451	60.451	0.324
6	1,2,3,6,7,8-HxCDF	33.34	2.362e5	2.051e5	1.600e4	1.341e4	1.19	NO	2.940e4	14.830	14.830	0.275
7	2,3,4,6,7,8-HxCDF	34.02	5.336e4	4.430e4	3.913e3	3.104e3	1.26	NO	7.017e3	3.3120	3.3120	0.263
8	1,2,3,7,8,9-HxCDF	35.04	4.650e4	4.167e4	3.884e3	3.395e3	1.14	NO	7.279e3	4.6220	4.6220	0.441

Hepta-Furans

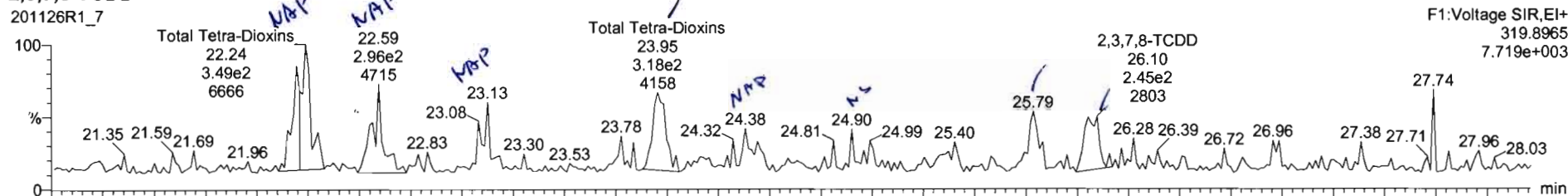
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.58	4.206e5	4.261e5	3.648e4	3.575e4	1.02	NO	7.223e4	40.789	40.789	0.522
2	Total Hepta-Furans	37.30	4.429e5	4.473e5	4.077e4	4.168e4	0.98	NO	8.245e4	54.627	54.627	0.560
3	1,2,3,4,7,8,9-HpCDF	38.63	1.063e5	1.042e5	7.435e3	7.291e3	1.02	NO	1.473e4	10.486	10.486	0.545

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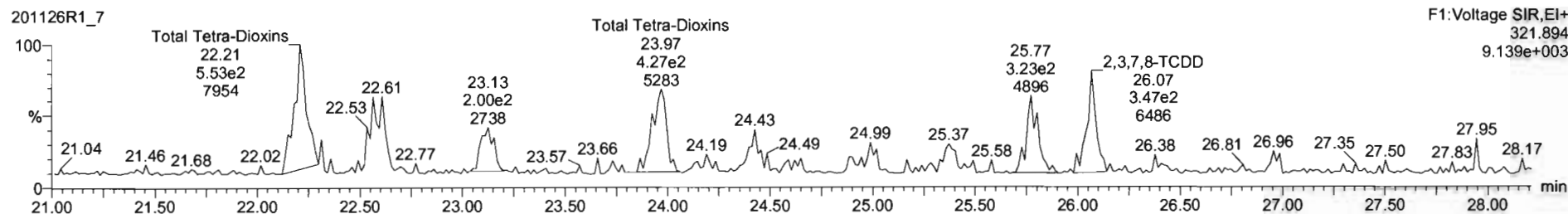
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Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

2,3,7,8-TCDD

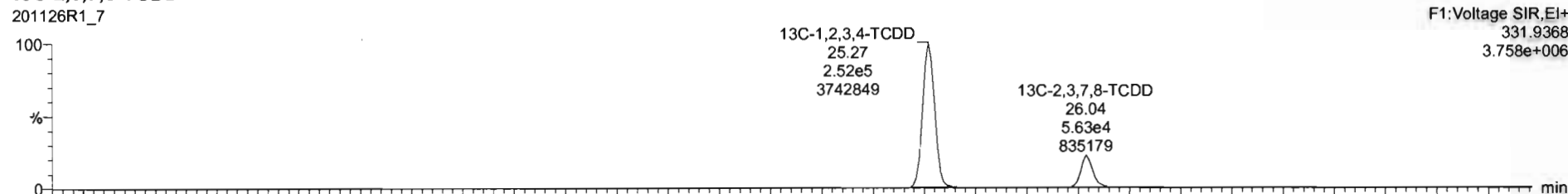


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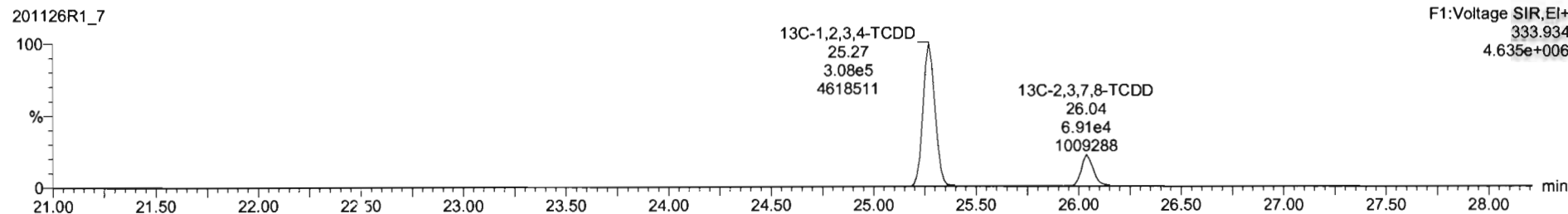


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13C-2,3,7,8-TCDD



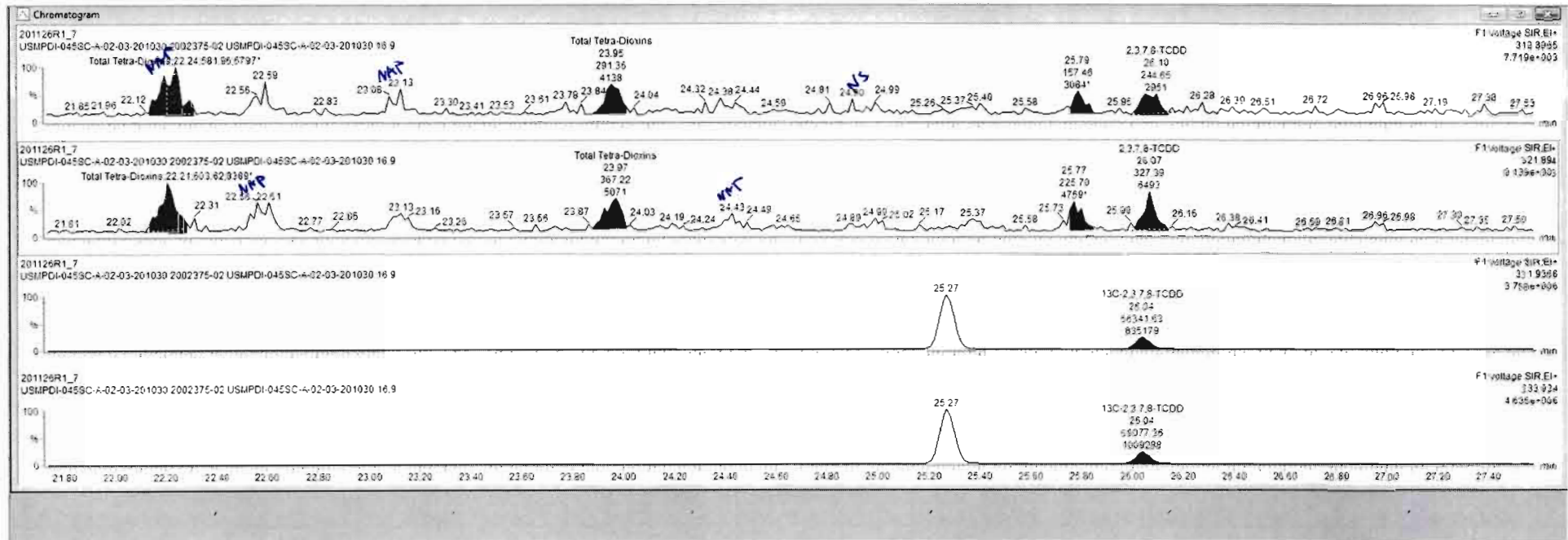
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3.758e+006



F1: Voltage SIR, EI+
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4.635e+006

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5501	10.261			2.01	0.507	3.51	
40 Total Penta-Dioxins				0.5855	10.261			7.12	0.741	11.7	
41 Total Hexa-Dioxins				0.5145	10.261			87.1	0.474	87.7	
42 Total Hepta-Dioxins				0.6697	10.261			338	1.89	338	
43 Total Tetra-Furans				0.8243	10.261			46.9	0.340	53.8	
44 1st Func. Penta-Furans				0.9408	10.261			8.29	0.0642	8.29	

Name	RT	Int Resp	m2 Resp	RA	n/y	EMPC	Conc
1 2,3,7,8-TCDD	26.10	2.44842	3.27442	0.75	NO	0.93296	0.93296
2 Total Tetra-Dioxins	22.24	5.01342	5.21542	0.56	YES	1.5056	0.0060
3 Total Tetra-Dioxins	23.95	2.91462	3.87262	0.75	NO	1.0741	1.0741



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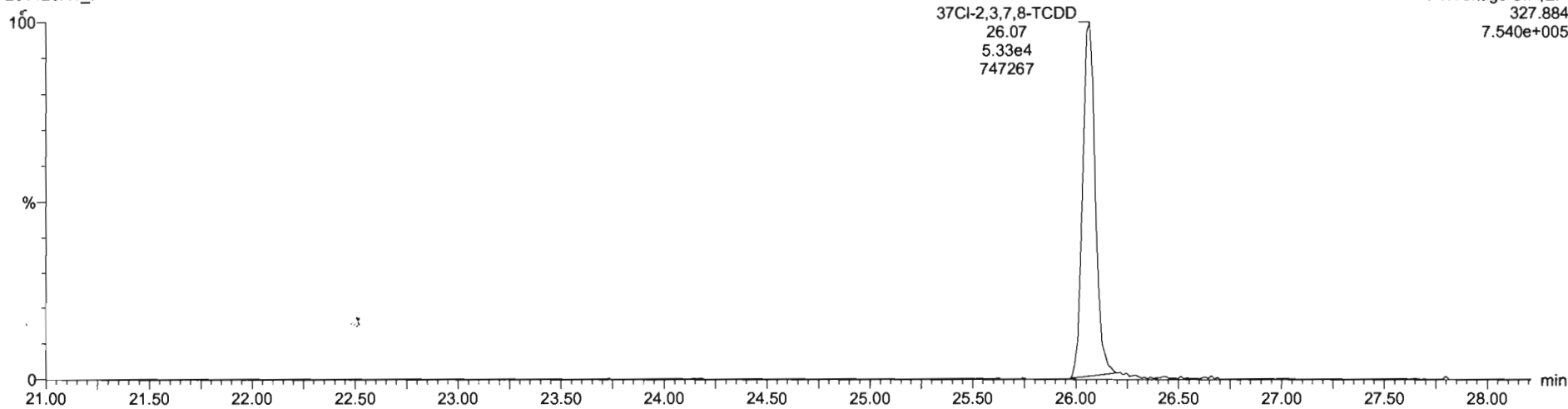
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Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

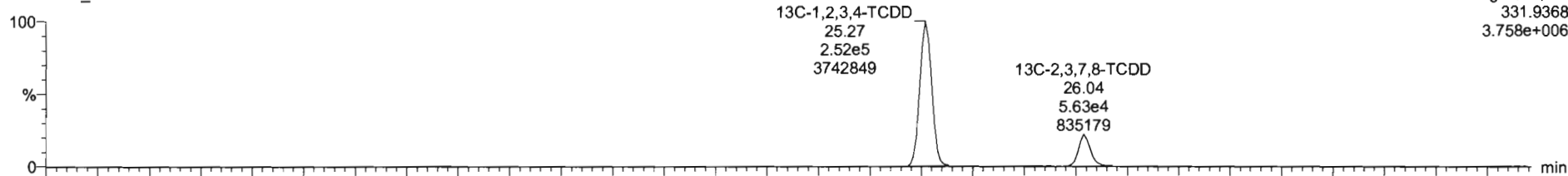
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201126R1_7

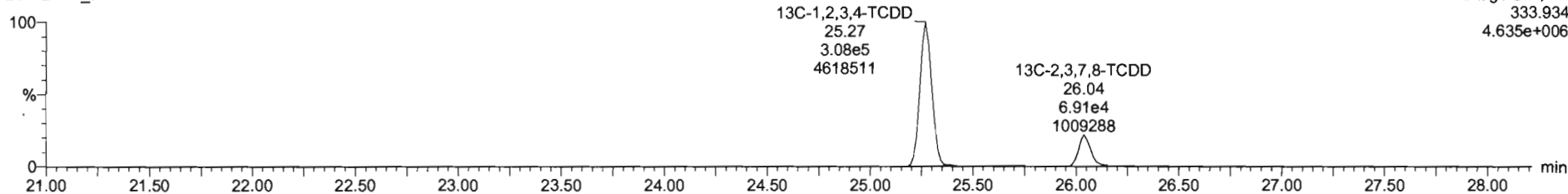


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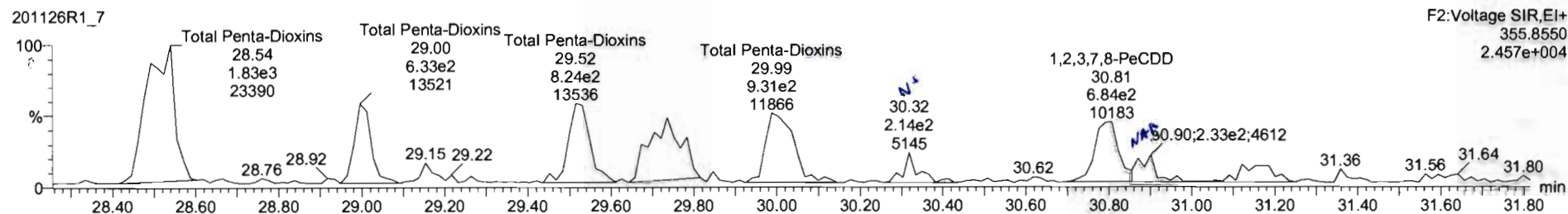
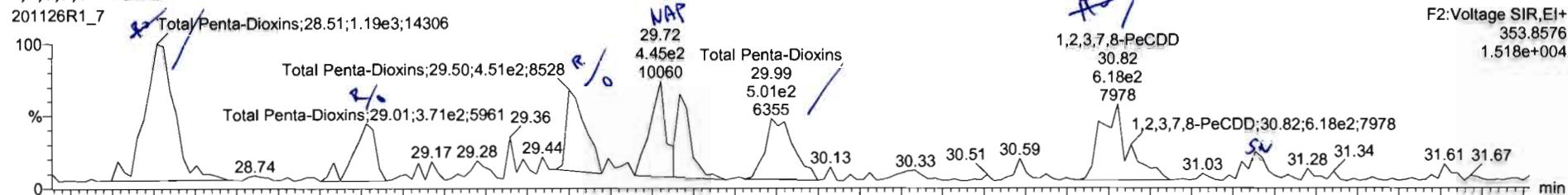


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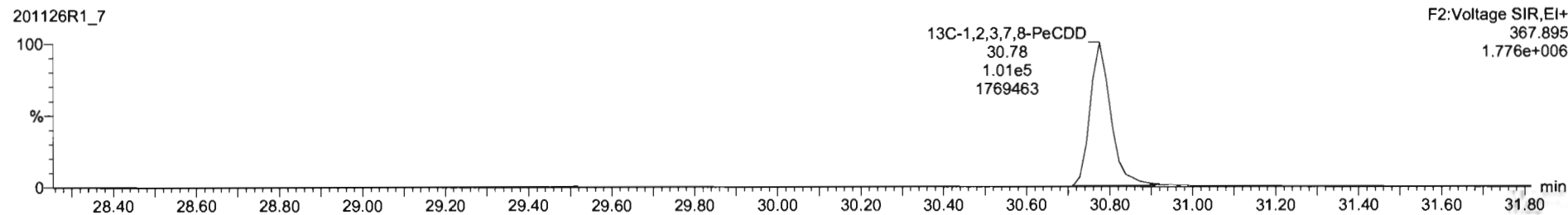
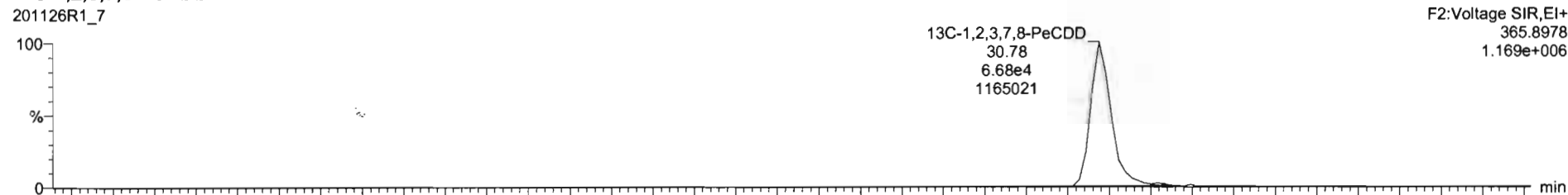
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1,2,3,7,8-PeCDD



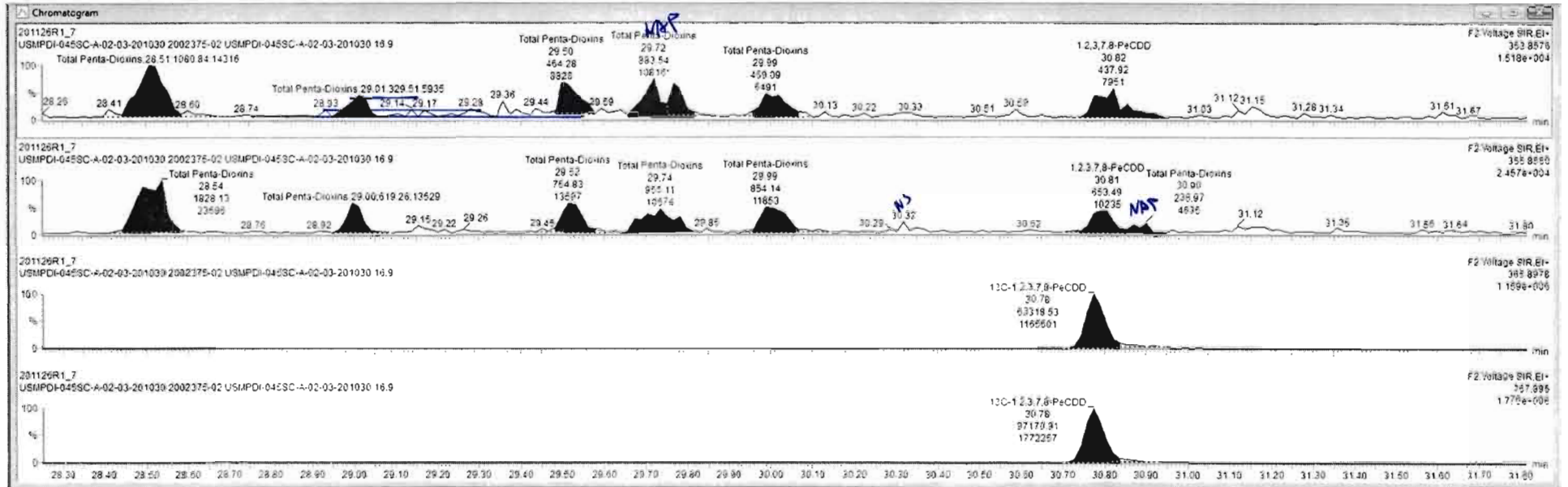
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201126R1_7 - 2002375-02 USMPDI-045SC-A-02-03-201030 16.9 - USMPDI-045SC-A-02-03-201030

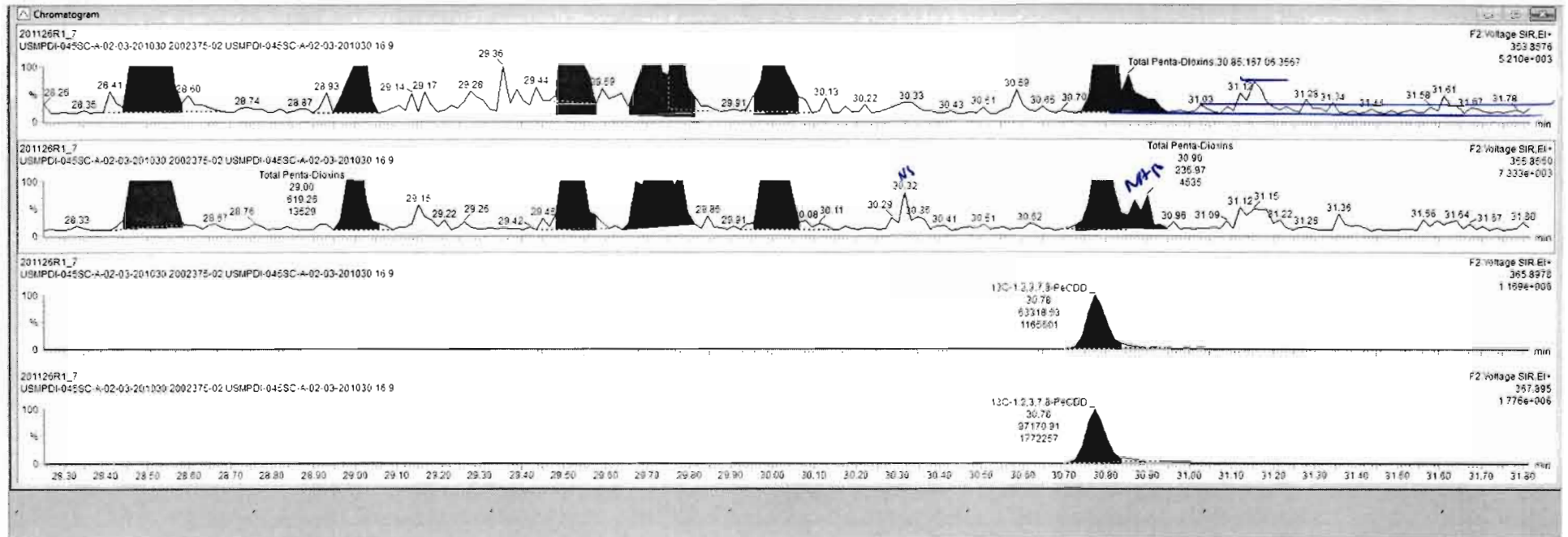
#	Name	Resp	RA	nly	RRF	wrtvol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.251			2.01	0.507	2.67	
40	Total Penta-Dioxins				0.8656	10.251			9.50	0.735	12.8	
41	Total Hexa-Dioxins				0.9143	10.251			87.7	0.474	87.7	
42	Total Hepta-Dioxins				0.8697	10.291			338	1.89	338	
43	Total Tetra-Furans				0.8243	10.291			46.9	0.340	53.5	
44	1st Func. Penta-Furans				0.9828	10.251			8.29	0.0642	8.29	

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Penta-Dioxins	29.01	3.295e2	6.182e2	0.53	YES	1.1658	0.00060
2	Total Penta-Dioxins	28.51	1.081e3	1.828e3	0.58	NO	3.9781	3.9781
3	1,2,3,7,8-PeCDD	30.82	4.378e2	6.536e2	0.67	NO	1.4925	1.4925
4	Total Penta-Dioxins	29.99	4.691e2	6.541e2	0.58	NO	1.8096	1.8096
5	Total Penta-Dioxins	29.72	8.848e2	9.551e2	0.93	YES	2.1290	0.00002



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.291			2.01	0.507	2.81	
40 Total Penta-Dioxins				0.8655	10.291			9.50	0.735	12.8	
41 Total Hexa-Dioxins				0.9145	10.291			87.7	0.474	87.7	
42 Total Hepta-Dioxins				0.8697	10.291			338	1.89	338	
43 Total Tetra-Furans				0.8243	10.291			46.6	0.340	53.8	
44 1st Func. Penta-Furans				0.5028	10.291			2.39	0.0842	2.29	

Name	RT	mt Resp	nt Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	29.21	3.295e2	8.193e2	0.53	YES	1.1859	0.00000
2 Total Penta-Dioxins	28.51	1.081e3	1.828e3	0.59	NO	3.9781	3.9781
3 1,2,3,7,8-PeCDD	30.52	4.378e2	6.536e2	0.67	N/A	1.4925	1.4925
4 Total Penta-Dioxins	29.59	4.691e2	8.541e2	0.55	NO	1.8096	1.8096
5 Total Penta-Dioxins	29.72	8.846e2	9.551e2	0.93	YES	2.1290	0.00000



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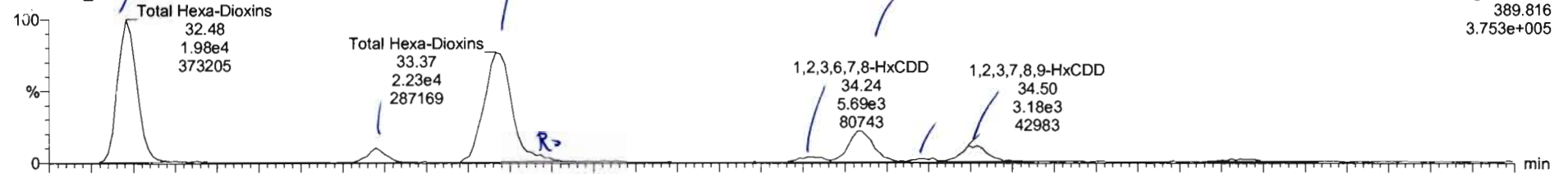
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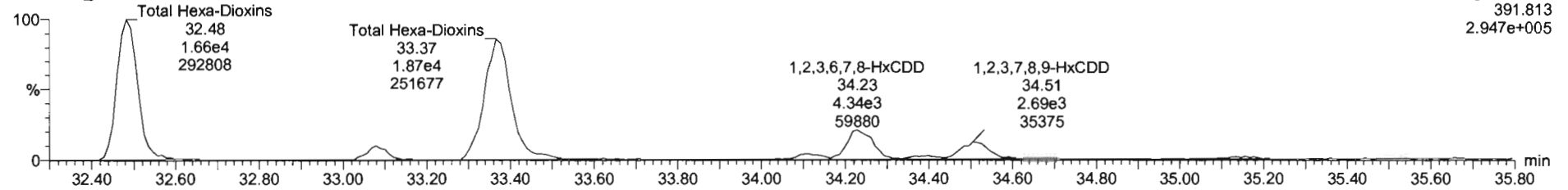
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1,2,3,4,7,8-HxCDD

201126R1_7

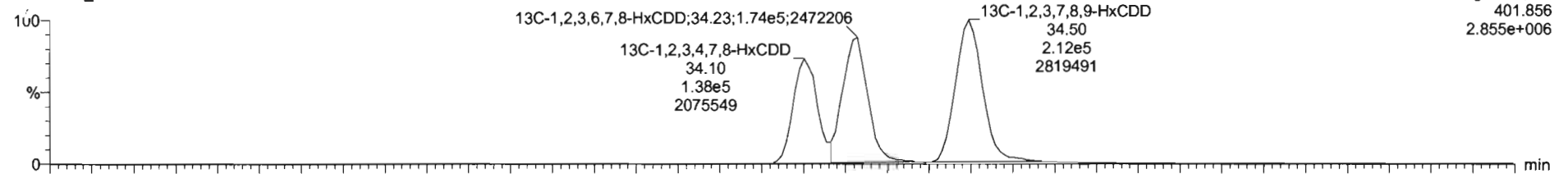


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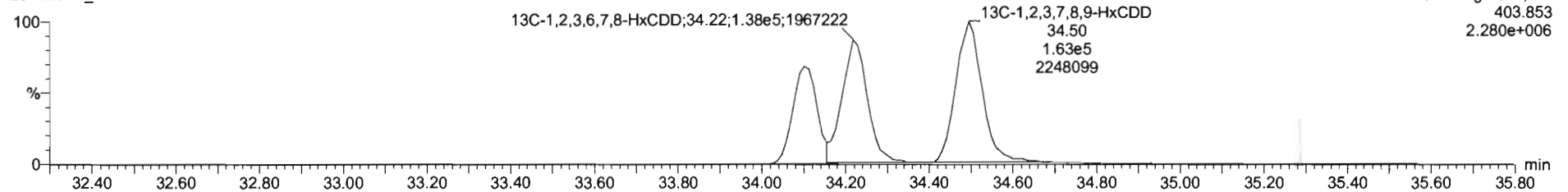


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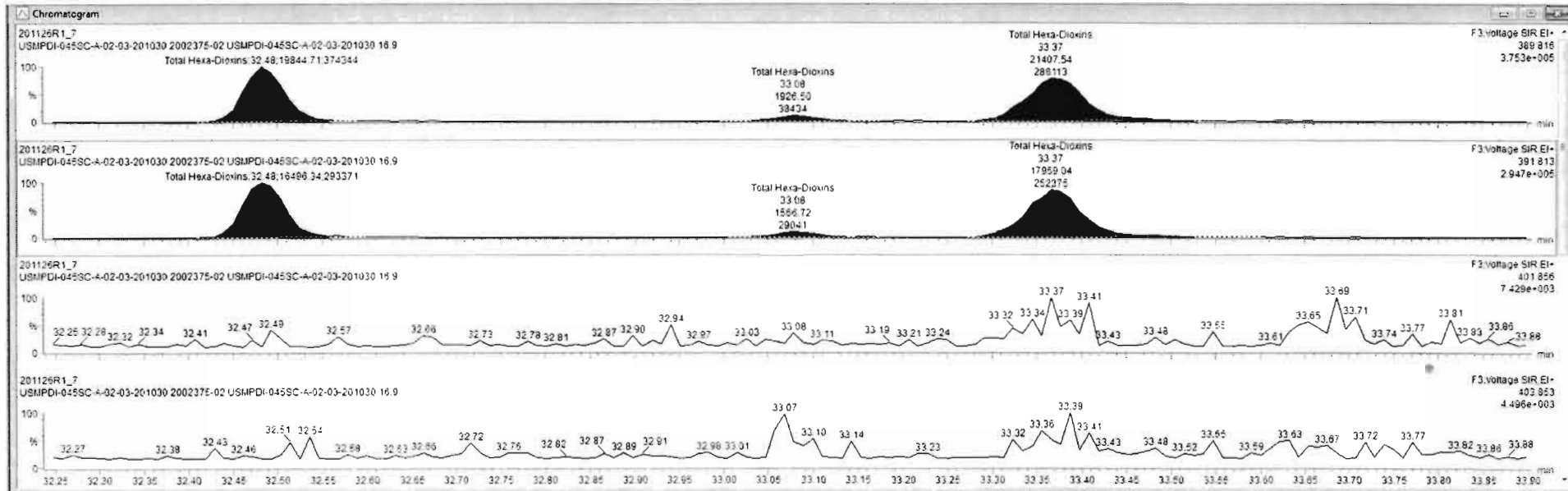
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201126R1_7 - 2002375-02 USMPDI-045SC-A-02-03-201030 16 9 - USMPDI-045SC-A-02-03-201030

#	Name	Resp	RA	n/y	BRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.5501	10.291			2.01		0.507	2.60
40	Total Penta-Dioxins				0.8555	10.291			7.29		0.735	10.11
41	Total Hexa-Dioxins				6.6145	10.291			66.5		0.474	67.8
42	Total Hepta-Dioxins				0.8697	10.291			338		1.89	338
43	Total Tetra-Furans				0.8243	10.291			46.9		0.340	51.8
44	1st Func. Penta-Furans				0.9826	10.291			8.29		0.6642	8.29

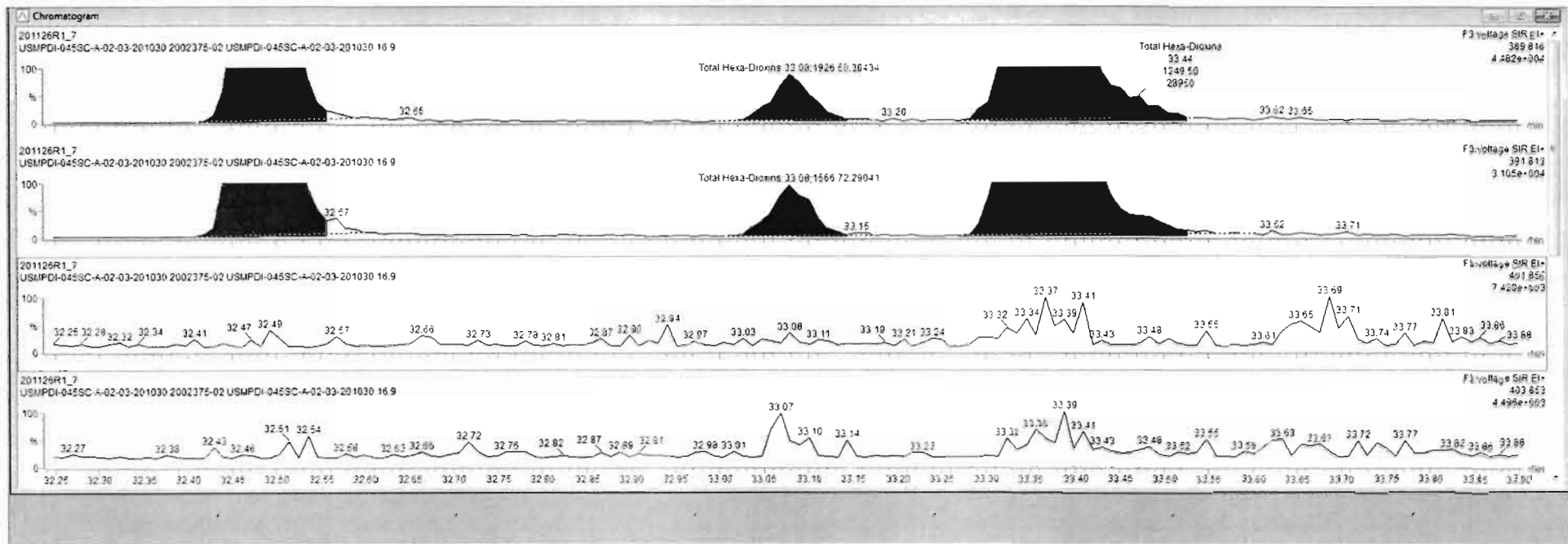
#	Name	RT	mI Resp	mQ Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	32.48	1.98464	1.65064	1.20	NO	24.961	24.961
2	Total Hexa-Dioxins	33.08	1.92763	1.56763	1.23	NO	2.3993	2.3993
3	Total Hexa-Dioxins	33.37	2.14164	1.79864	1.18	NO	27.039	27.039
4	Total Hexa-Dioxins	33.44	1.25063	8.53562	1.48	YES	1.2132	0.00060
5	1,2,3,4,7,8-HxCDD	34.11	9.77862	7.59262	1.28	NO	1.3513	1.3513



201126R1_7 - 2002375-02 USMPDI-045SC-A-02-03-201030 16.9 - USMPDI-045SC-A-02-03-201030

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.291			2.01	0.507	2.65	
40 Total Penta-Dioxins				0.8855	10.291			7.29	0.735	10.1	
41 Total Hexa-Dioxins				0.8145	10.291			66.5	0.474	67.8	
42 Total Hepta-Dioxins				0.8697	10.291			338	1.88	338	
43 Total Tetra-Furans				0.8243	10.291			46.9	0.340	53.8	
44 1st Func. Penta-Furans				0.9028	10.291			8.29	0.6642	8.29	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Dioxins	32.48	1.704e4	1.650e4	1.25	NO	24.961	24.961
2 Total Hexa-Dioxins	33.08	1.927e3	1.907e3	1.23	NO	2.3963	2.3963
3 Total Hexa-Dioxins	33.37	2.141e4	1.790e4	1.18	NO	27.038	27.039
4 Total Hexa-Dioxins	33.44	1.250e3	8.535e2	1.48	YES	1.3132	0.00060
5 1,2,3,4,7,8-HxCDD	34.11	9.778e2	7.592e2	1.29	NO	1.3513	1.3513



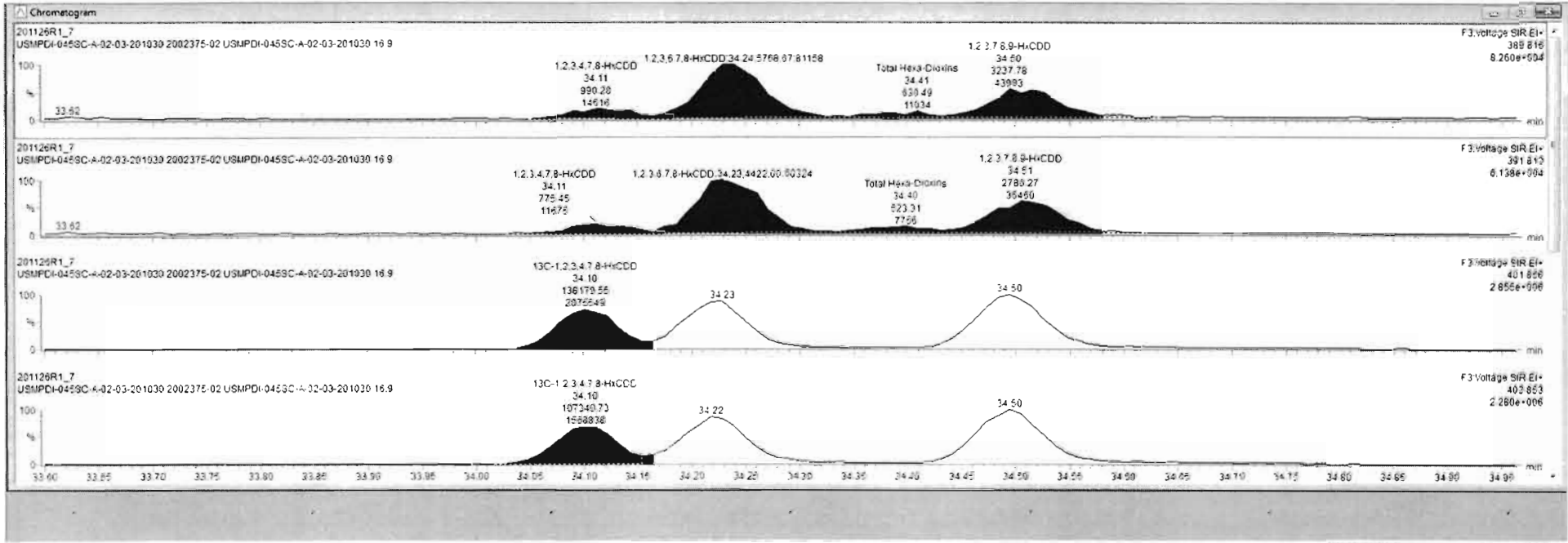
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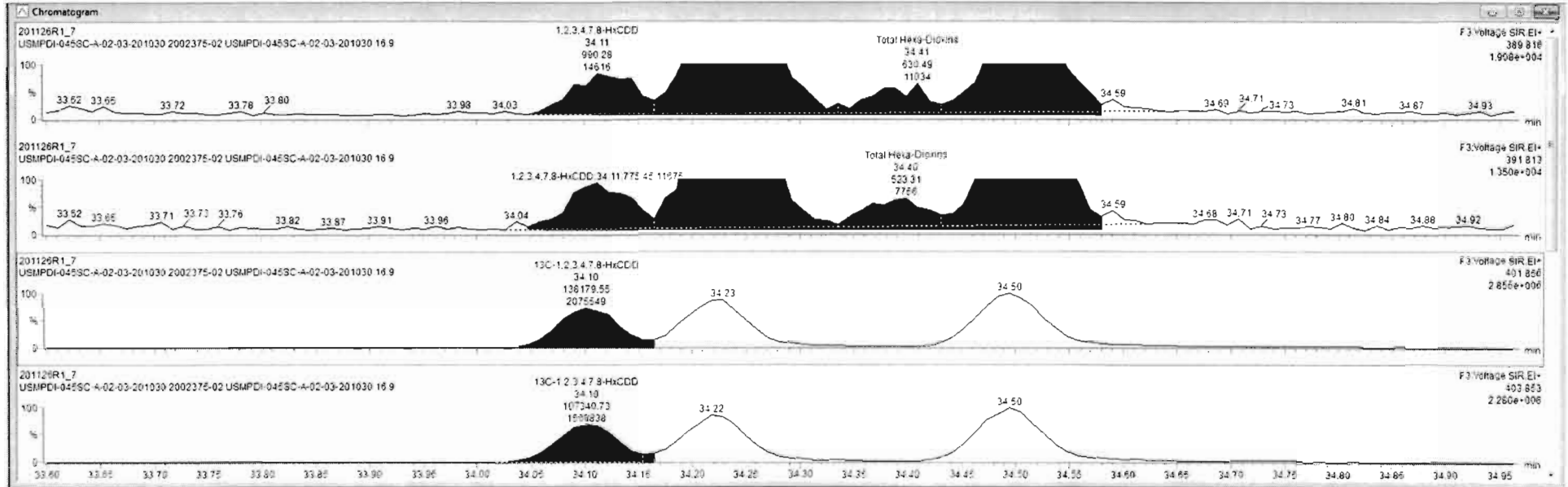
Name	Resp	RA	n/y	RRF	wrt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38 Total Tetra-Dioxins				0.6501	10.261			2.01	0.507	2.00	
40 Total Penta-Dioxins				0.6655	10.261			7.29	0.735	10.1	
41 Total Hexa-Dioxins				0.9145	10.261			66.9	0.474	68.3	
42 Total Hexa-Dioxins				0.6697	10.261			338	1.89	338	
43 Total Tetra-Furans				0.8243	10.261			46.8	0.340	53.8	
44 Int Func. Penta-Furans				0.9828	10.261			8.29	0.0642	8.29	

Name	RT	ml Resp	ng Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.42	1.984e4	1.650e4	1.20	NO	24.961	24.961
2 Total Hexa-Dioxins	33.08	1.927e3	1.567e3	1.23	NO	2.3993	2.3993
3 Total Hexa-Dioxins	33.57	2.141e4	1.790e4	1.19	NO	27.039	27.039
4 Total Hexa-Dioxins	33.44	1.250e3	8.530e2	1.46	YES	1.3122	0.00000
5 1,2,3,4,7,8-HxCDD	34.11	9.903e2	7.754e2	1.28	NO	1.3738	1.3738



Name	Resp	RA	nly	RRF	wbvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.291			2.01	0.507	2.45	
40 Total Penta-Dioxins				0.8655	10.291			7.29	0.735	10.1	
41 Total Hexa-Dioxins				0.9145	10.291			96.9	0.474	68.3	
42 Total Hepta-Dioxins				0.8697	10.291			338	1.89	338	
43 Total Tetra-Furans				0.8243	10.291			46.9	0.340	53.8	
44 1st Func. Penta-Furans				0.9528	10.291			2.29	0.0642	2.29	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	32.48	1.9844	1.6504	1.20	NO	24.961	24.961
2 Total Hexa-Dioxins	33.08	1.92743	1.58743	1.23	NO	2.3993	2.3993
3 Total Hexa-Dioxins	33.97	2.14164	1.7964	1.16	NO	27.039	27.039
4 Total Hexa-Dioxins	33.44	1.25043	8.53542	1.48	YES	1.2132	0.00000
5 1,2,3,4,7,8-HxCDD	34.11	9.90342	7.75442	1.28	NO	1.3758	1.3758



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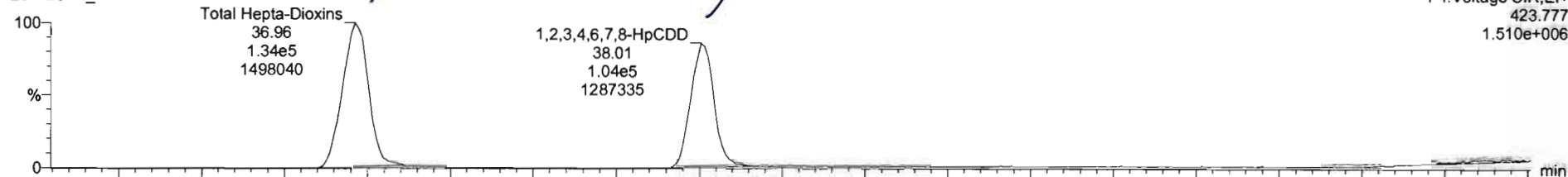
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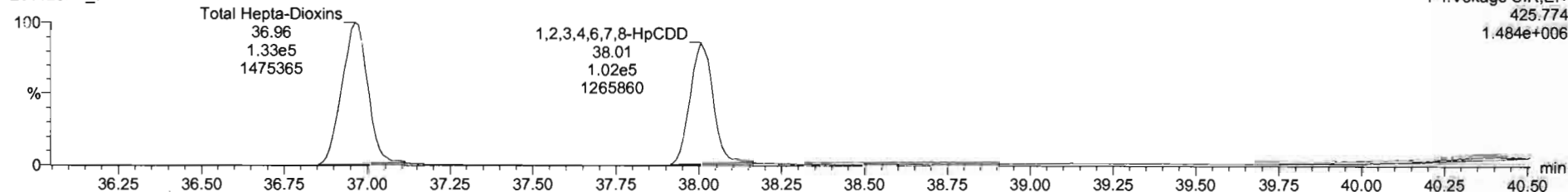
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201126R1_7

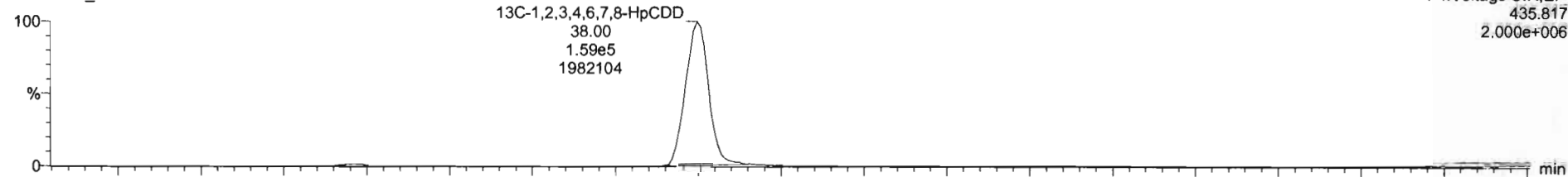


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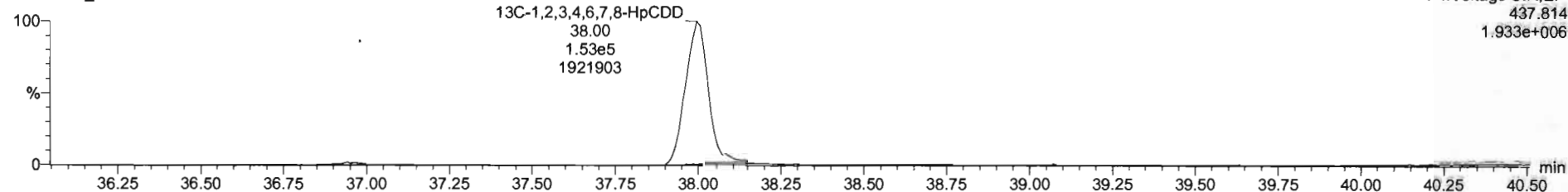


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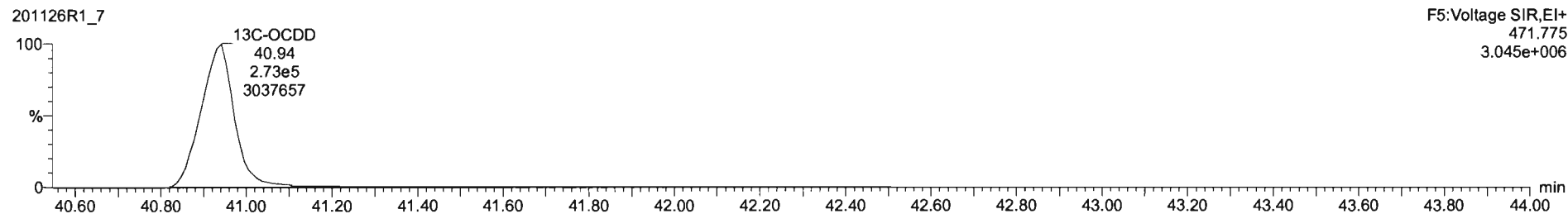
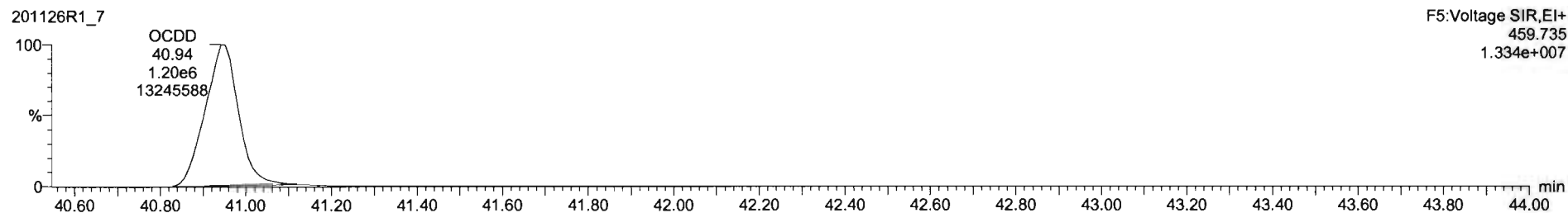
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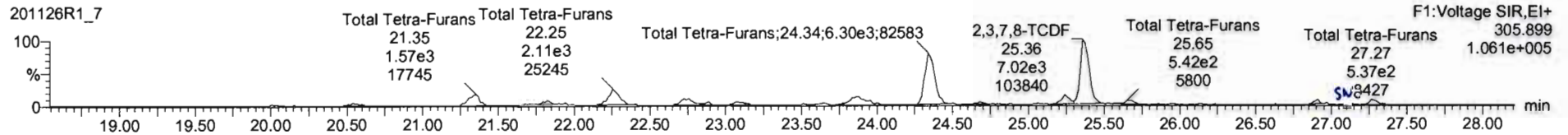
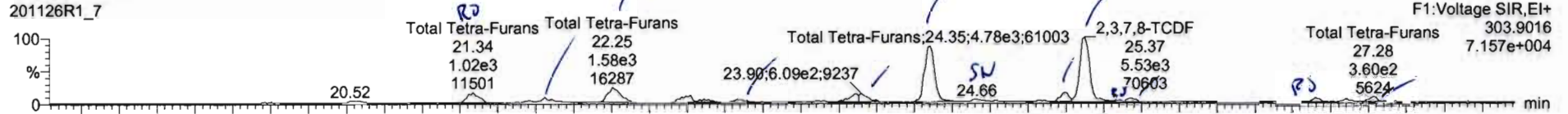


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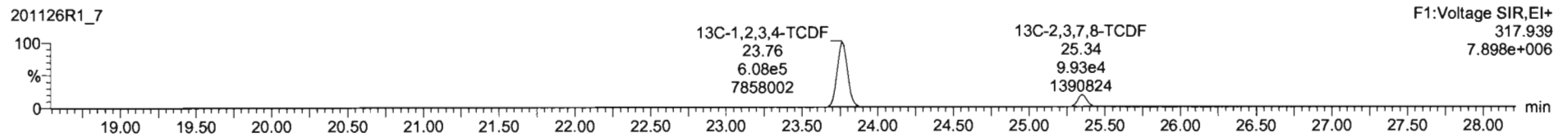
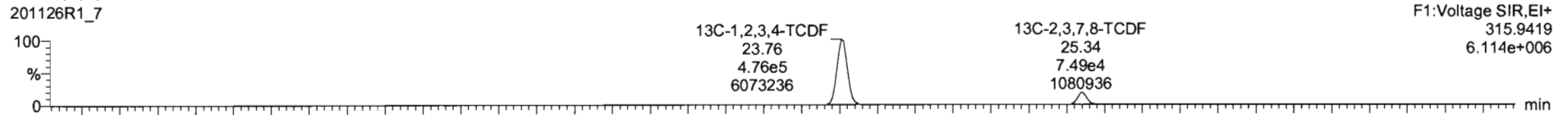
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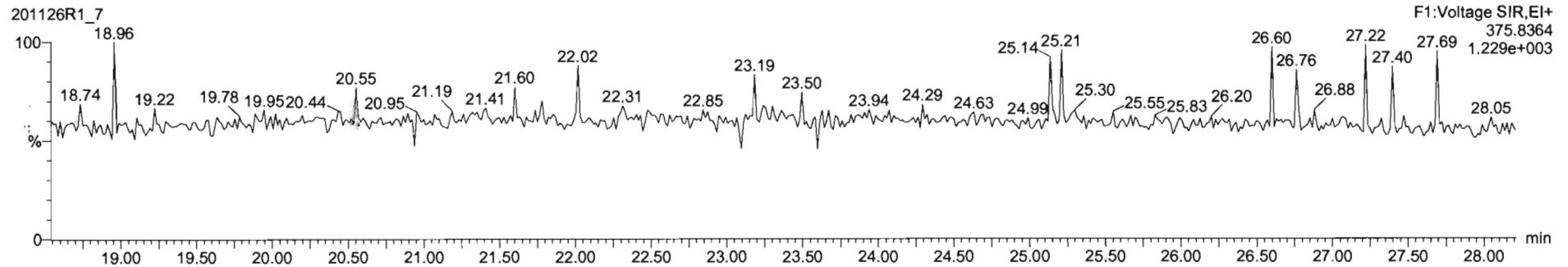
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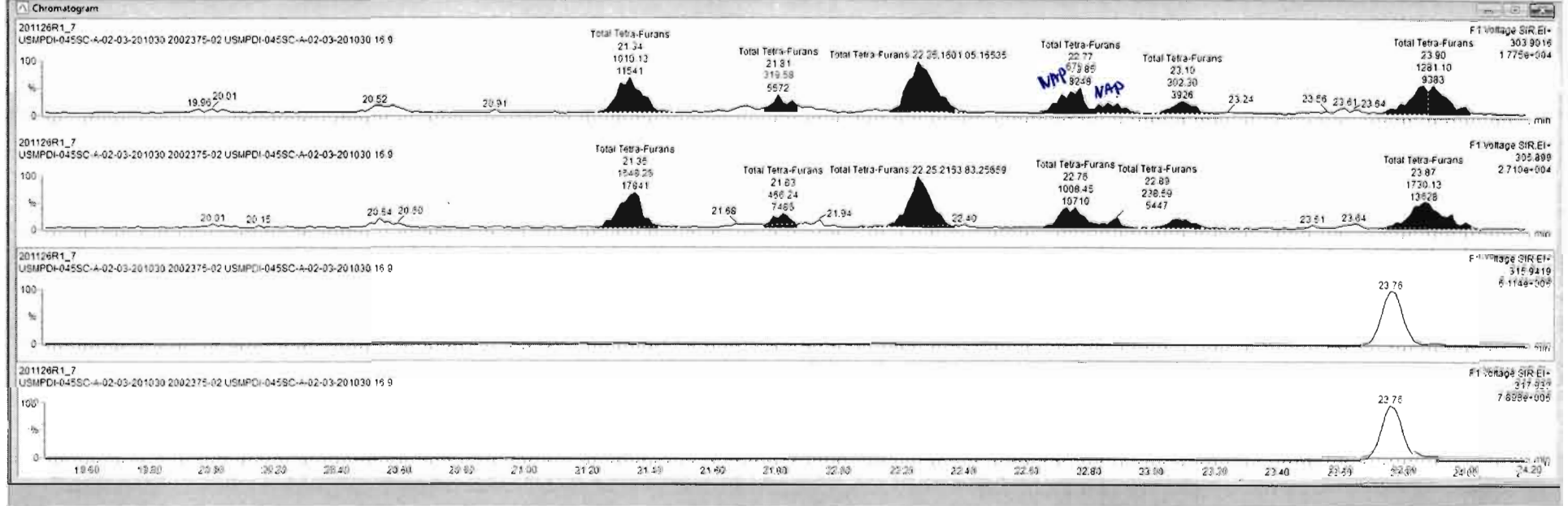
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201126R1_7 - 2002375-02 USMPDI-045SC-A-02-03-201030 16 9 - USMPDI-045SC-A-02-03-201030

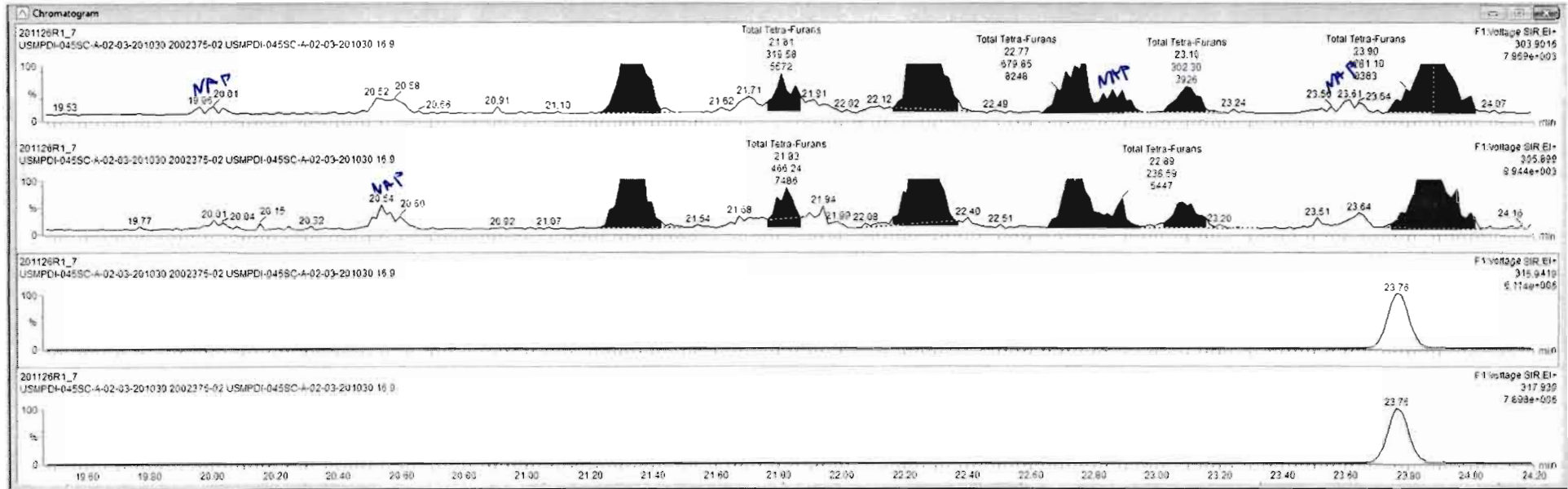
Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.291			45.7		0.340	54.8
44 1st Func Penta-Furans				0.9626	10.291			8.29		0.0642	8.29
45 Total Penta-Furans				0.9626	10.291			78.9		0.495	79.3
46 Total Hexa-Furans				0.9907	10.291			123		0.314	124
47 Total Hepta-Furans				0.9996	10.291			136		0.960	106
48 PFK1											

Name	RT	ml Resp	rd Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	21.34	1.01063	1.54863	0.66	YES	2.1932	0.00000
2 Total Tetra-Furans	21.81	2.19642	4.66242	0.69	NO	1.0838	1.2638
3 Total Tetra-Furans	22.25	1.60143	2.15443	0.74	NO	5.6829	5.0529
4 Total Tetra-Furans	22.77	6.79862	1.00863	0.67	NO	2.2854	2.2854
5 Total Tetra-Furans	22.86	2.70842	2.38842	1.13	YES	9.5748	0.00000
6 Total Tetra-Furans	23.10	3.02362	4.29762	0.70	NO	0.99096	0.99096
7 Total Tetra-Furans	23.90	1.28143	1.73043	0.74	NO	4.6763	4.0763



ID	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8243	10.291			46.7		0.340	54.6
44	1st Func. Penta-Furans				0.9626	10.291			8.29		0.0642	8.29
45	Total Penta-Furans				0.9626	10.291			78.9		0.495	79.1
46	Total Hexa-Furans				0.9907	10.291			123		0.314	124
47	Total Hepta-Furans				0.9996	10.291			106		0.560	106
48	PFK1											

ID	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	21.34	1.010e3	1.548e3	0.65	YES	3.1432	0.00000
2	Total Tetra-Furans	21.81	3.196e2	4.862e2	0.69	NO	1.0636	1.0636
3	Total Tetra-Furans	22.25	1.801e3	2.154e3	0.74	NO	5.0829	5.0829
4	Total Tetra-Furans	22.77	6.798e2	1.008e3	0.67	NO	2.2364	2.2364
5	Total Tetra-Furans	22.88	2.708e2	2.386e2	1.13	YES	0.67160	0.00000
6	Total Tetra-Furans	23.10	3.023e2	4.297e2	0.70	NO	0.99095	0.99095
7	Total Tetra-Furans	23.90	1.281e3	1.730e3	0.74	NO	4.0763	4.0763



Ready

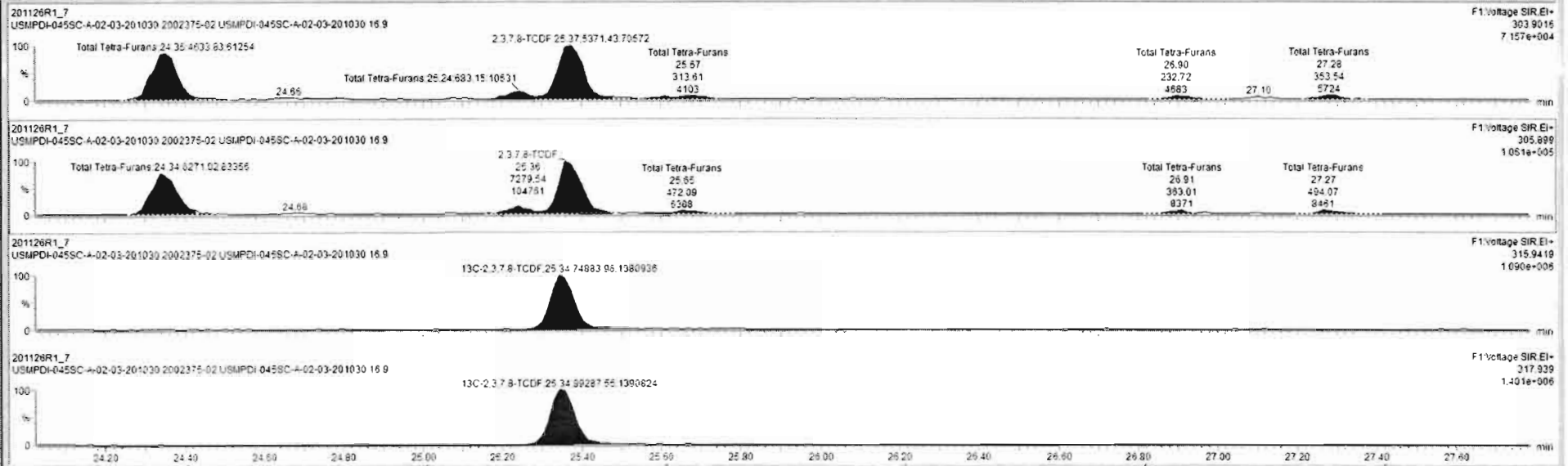
201126R1_7

CAP NUM

#	Name	Resp	RA	ny	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8243	10.291			49.7	0.340	54.6	
44	1st Func. Penta-Furans				0.9626	10.291			8.29	0.0842	8.29	
45	Total Penta-Furans				0.9828	10.291			78.9	0.495	79.3	
46	Total Hexa-Furans				0.9907	10.291			123	0.314	124	
47	Total Hepta-Furans				0.9996	10.291			106	0.560	106	
48	PHK1											

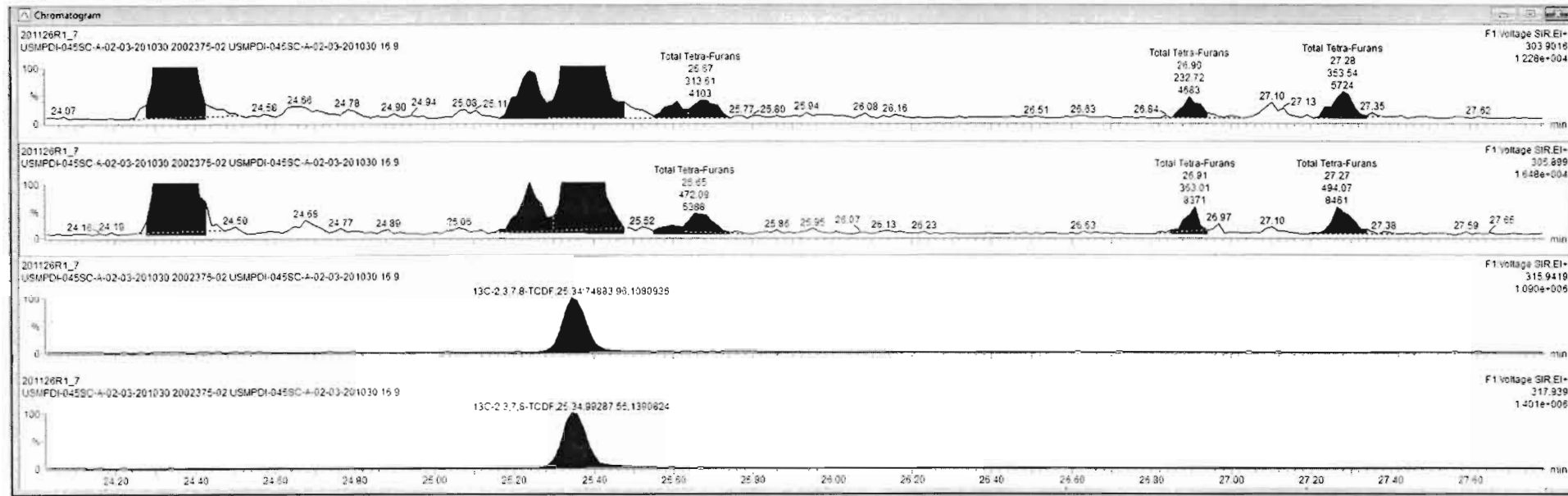
#	Name	RT	ml Resp	mC Resp	RA	ny	EMPC	Conc.
1	Total Tetra-Furans	21.34	1.010e3	1.546e3	0.65	YES	3.1432	0.00000
2	Total Tetra-Furans	21.81	3.196e2	4.662e2	0.69	NO	1.0638	1.3639
3	Total Tetra-Furans	22.25	1.601e3	2.154e3	0.74	NO	5.0829	5.0829
4	Total Tetra-Furans	22.77	6.799e2	1.009e3	0.67	NO	2.2854	2.2854
5	Total Tetra-Furans	22.88	2.700e2	2.389e2	1.13	YES	0.57186	0.00003
6	Total Tetra-Furans	23.10	3.027e2	4.297e2	0.70	NO	0.96095	0.99095
7	Total Tetra-Furans	23.50	1.281e3	1.730e3	0.74	NO	4.0763	4.0763

Chromatogram



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.291			49.7	0.340	54.6	
44 1st Func. Penta-Furans				0.9626	10.291			8.29	0.0642	8.29	
45 Total Penta-Furans				0.9626	10.291			78.9	0.495	79.3	
46 Total Hexa-Furans				0.9907	10.291			123	0.314	124	
47 Total Hepta-Furans				0.6906	10.291			106	0.560	106	
48 PPK1											

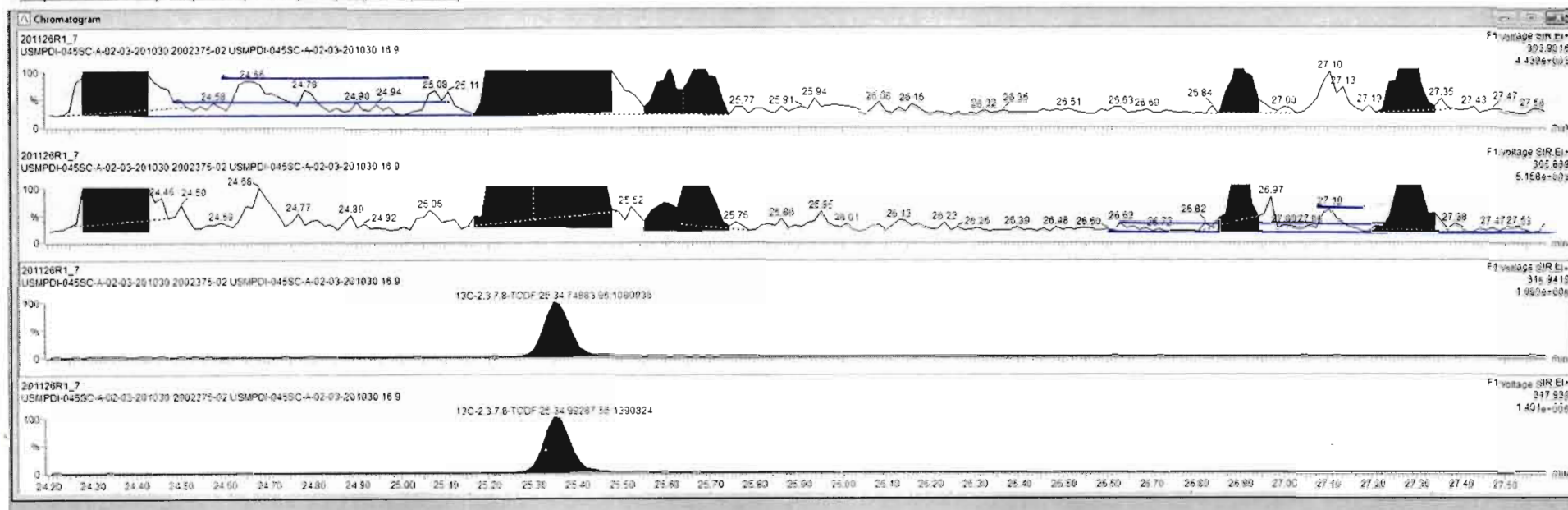
Name	RT	ml Resp	ml2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	21.34	1.010e3	1.548e3	0.65	YES	3.1432	0.00300
2 Total Tetra-Furans	21.81	3.156e2	4.862e2	0.69	NO	1.0638	1.3638
3 Total Tetra-Furans	22.25	1.801e3	2.154e3	0.74	NO	5.0828	5.0828
4 Total Tetra-Furans	22.77	6.799e2	1.008e3	0.67	NO	2.2854	2.2854
5 Total Tetra-Furans	22.86	2.700e2	2.389e2	1.13	YES	0.97168	0.00000
6 Total Tetra-Furans	23.10	3.023e2	4.297e2	0.70	NO	0.99095	0.99095
7 Total Tetra-Furans	23.50	1.281e3	1.730e3	0.74	NO	4.0763	4.0763



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#	Name	Resp	RA	n/y	RRF	ndVol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.8243	10.291			49.7	0.240	54.6	
44	1st Func. Penta-Furans				0.9626	10.291			8.29	0.0642	8.29	
45	Total Penta-Furans				0.9626	10.291			78.9	0.495	78.3	
46	Total Hexa-Furans				0.9907	10.291			123	0.214	124	
47	Total Hepta-Furans				0.9906	10.291			106	0.580	106	
48	PFK1											

#	Name	RT	mt Resp	nQ Resp	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	21.34	1.310e3	1.548e3	0.65	YES	3.1432	0.00000
2	Total Tetra-Furans	21.81	3.196e2	4.662e2	0.69	NO	1.6628	1.9038
3	Total Tetra-Furans	22.25	1.601e3	2.154e3	0.74	NO	5.0528	6.9629
4	Total Tetra-Furans	22.77	6.799e2	1.008e3	0.67	NO	2.2854	2.2854
5	Total Tetra-Furans	22.86	2.708e2	2.388e2	1.13	YES	0.57169	0.00000
6	Total Tetra-Furans	23.10	3.023e2	4.297e2	0.70	NO	0.96095	0.95085
7	Total Tetra-Furans	23.90	1.281e3	1.730e3	0.74	NO	4.9763	4.9763



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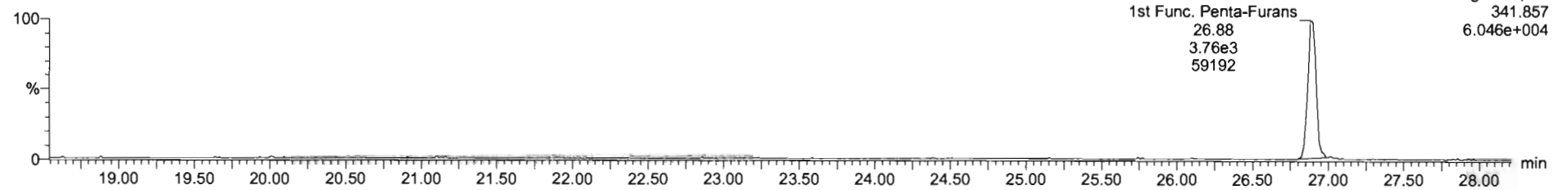
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1st Func. Penta-Furans

201126R1_7

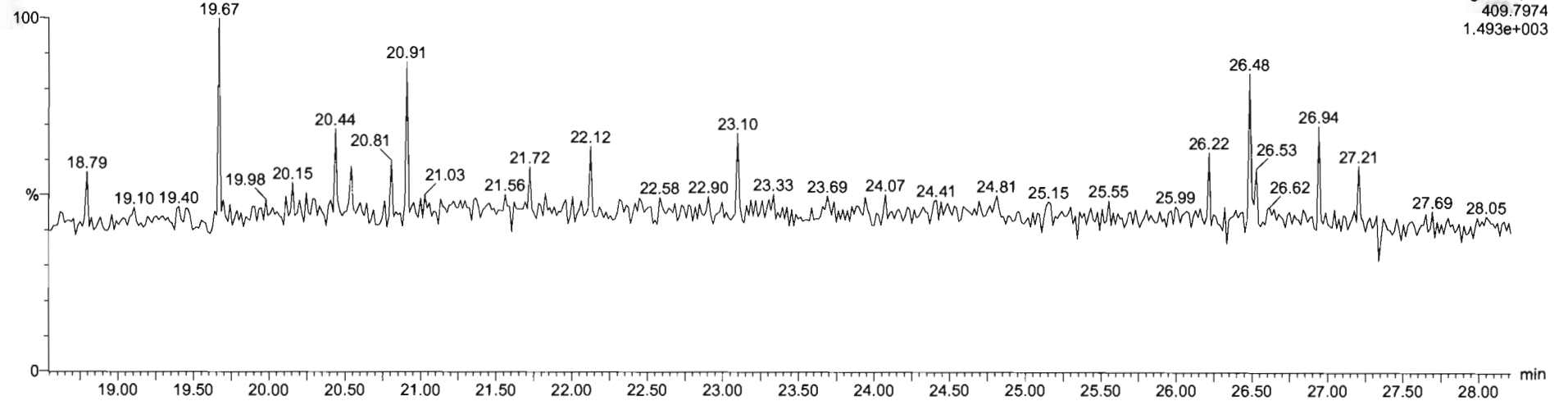


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DPE6

201126R1_7



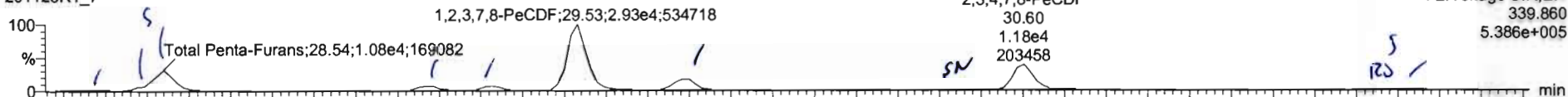
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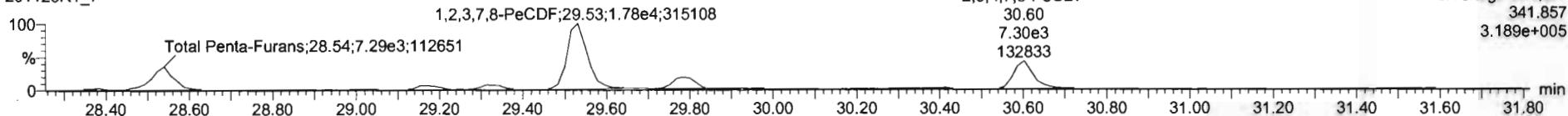
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1,2,3,7,8-PeCDF

201126R1_7

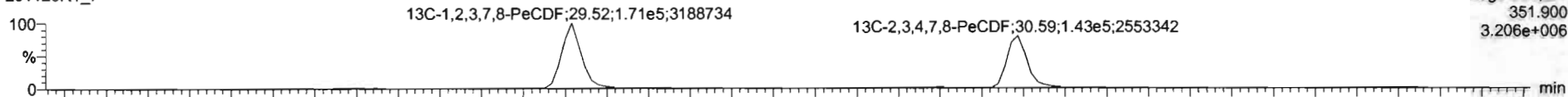


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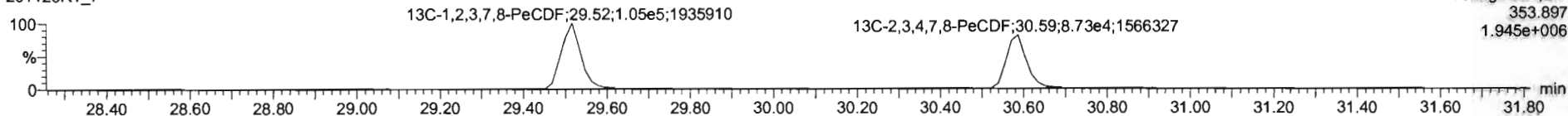


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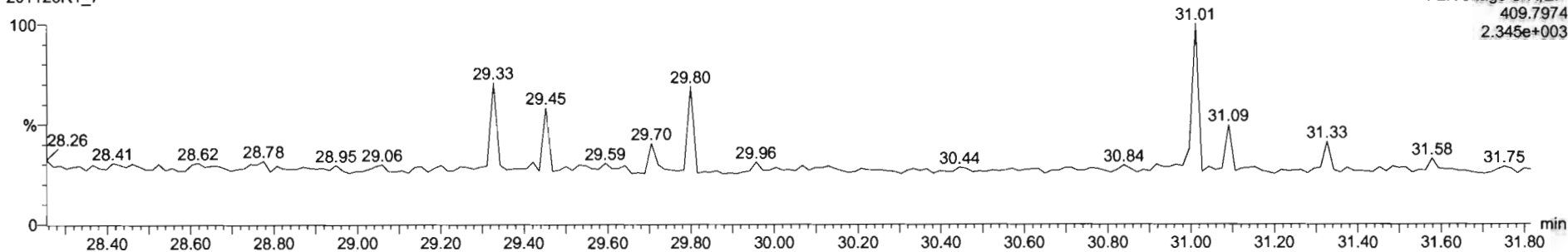


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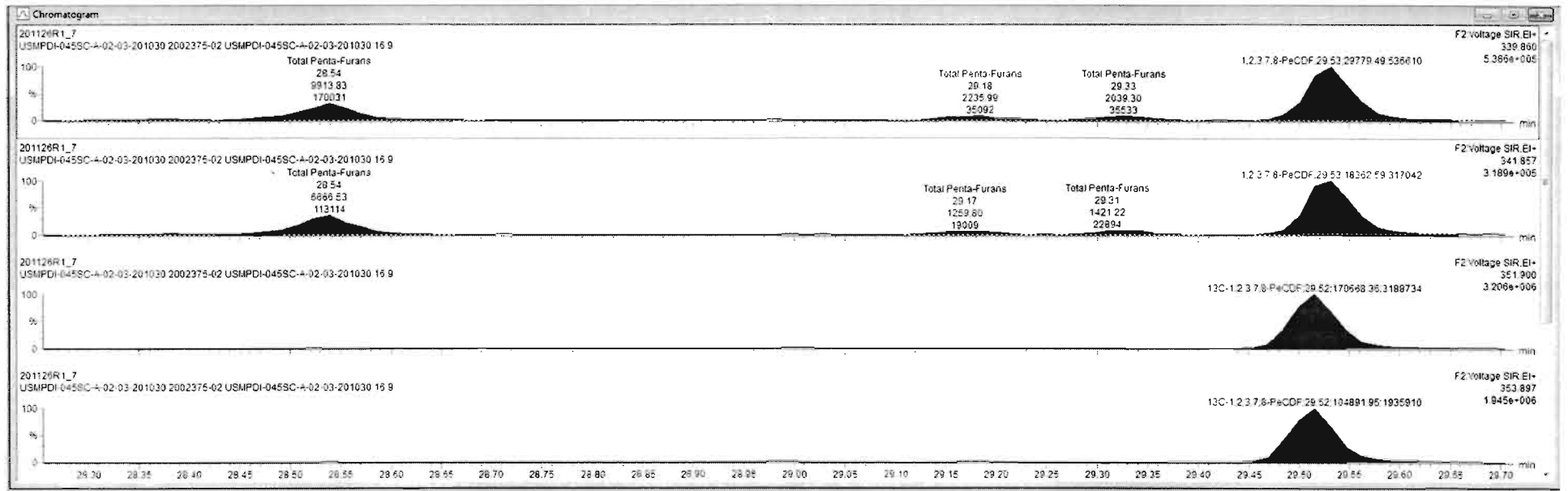
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201126R1_7 - 2002375-02 USMPDI-045SC-A-02-03-201030 16.9 - USMPDI-045SC-A-02-03-201030

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.291			47.4		0.340	51.7
44 1st Func. Penta-Furans				0.9626	10.291			8.29		0.0642	8.29
45 Total Penta-Furans				0.9626	10.291			64.7		0.495	80.4
46 Total Hexa-Furans				0.9907	10.291			123		0.314	124
47 Total Hepta-Furans				0.9986	10.291			106		0.560	106
48 PPK1											

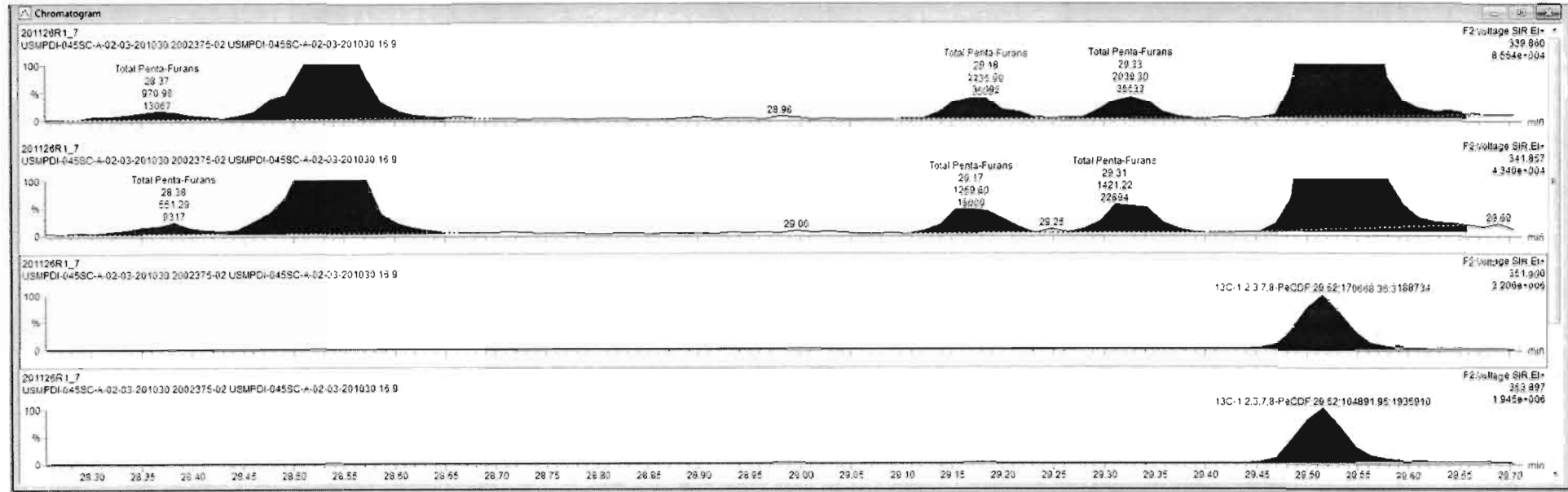
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.37	9.710e2	5.513e2	1.78	NO	1.2222	1.2222
2 Total Penta-Furans	28.49	1.054e3	7.279e2	1.45	NO	1.4305	0.00000



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Name	Resp	RA	ny	RRF	w/wof	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	16.251			47.4		0.246	51.7
44 1st Func. Penta-Furans				0.5826	10.291			8.28		0.0642	9.26
45 Total Penta-Furans				0.9626	10.291			64.7		0.495	80.4
46 Total Hexa-Furans				0.9907	10.291			123		0.314	124
47 Total Hepta-Furans				0.5986	10.291			106		0.560	100
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1 Total Penta-Furans	28.37	970.98	551342	1.76	NO	1.2222	1.2222
2 Total Penta-Furans	28.49	105443	727542	1.45	NO	1.4305	0.00002



Ready

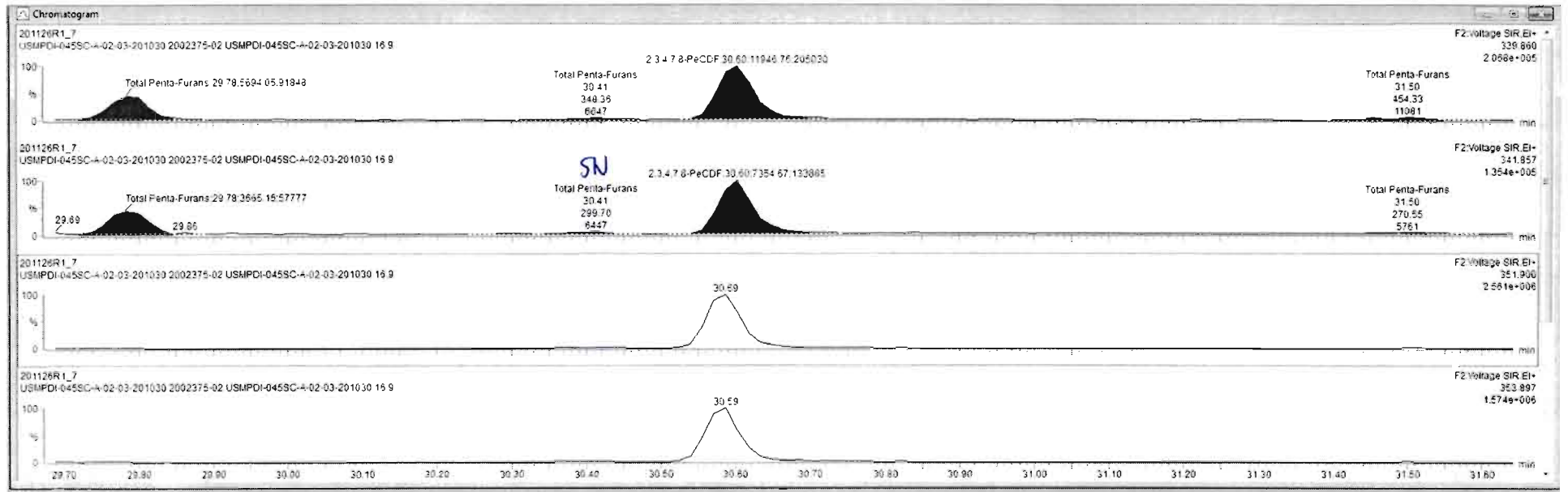
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201126R1_7 - 2002375-02 USMPDI-045SC-A-02-03-201030 16 9 - USMPDI-045SC-A-02-03-201030

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.251			47.4	0.340	51.7	
44 1st Func. Penta-Furans				0.9626	10.251			8.29	0.0642	8.29	
45 Total Penta-Furans				0.9626	10.251			66.0	0.485	81.1	
46 Total Hexa-Furans				0.9907	10.251			123	0.314	124	
47 Total Hepta-Furans				0.9986	10.251			136	0.560	106	
48 PFK1											

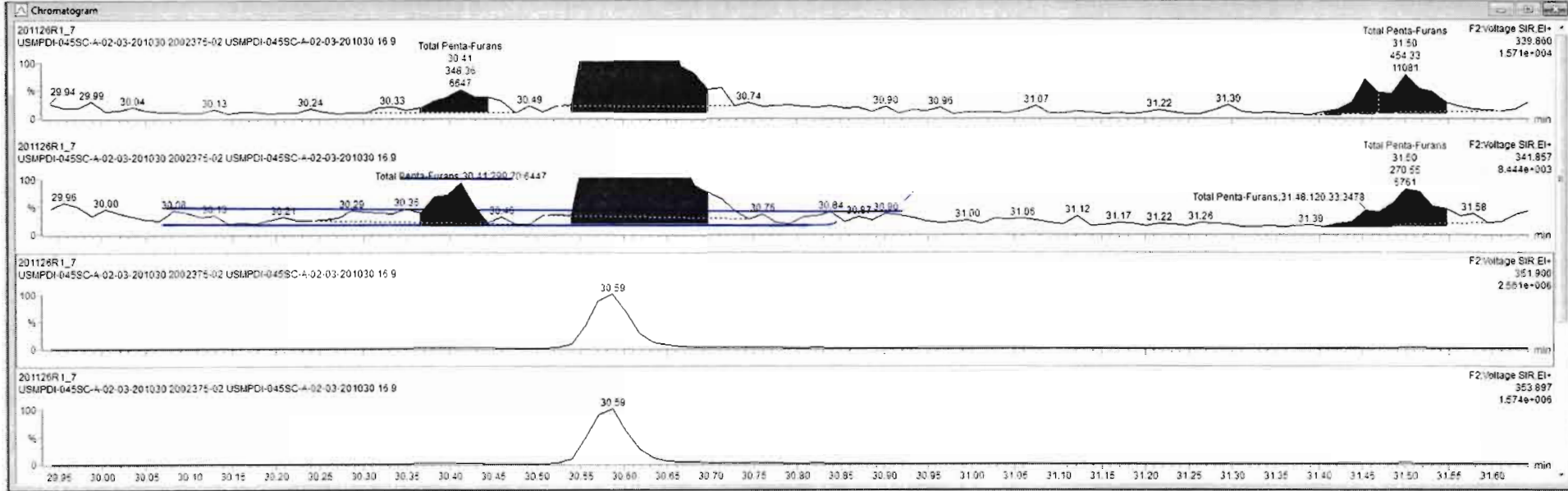
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	29.37	9.710e2	5.513e2	1.76	NO	1.2222	1.2222
2 Total Penta-Furans	29.49	1.054e3	7.275e2	1.45	NO	1.4365	0.0000



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Name	Resp	RA	nly	RRF	wVvel	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.291			47.4	0.346	51.7	
44 1st Func. Penta-Furans				0.9626	10.291			8.29	0.0642	8.29	
45 Total Penta-Furans				0.9626	10.291			65.0	0.495	81.1	
46 Total Hexa-Furans				0.9907	10.291			123	0.214	124	
47 Total Hepta-Furans				0.9906	10.291			106	0.560	106	
48 PPK1											

Name	RT	ml Resp	µl Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.37	9.71042	5.51342	1.78	NO	1.2222	1.2222
2 Total Penta-Furans	28.49	1.05443	7.27942	1.45	NO	1.4355	0.00000



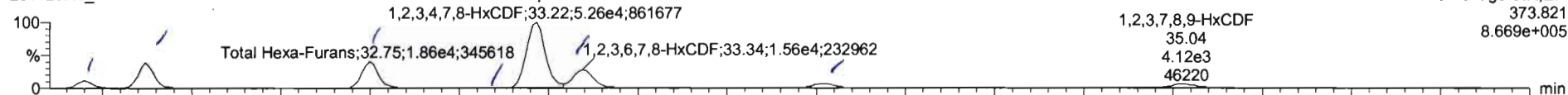
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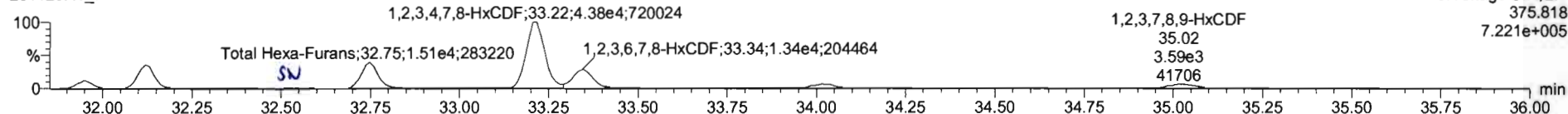
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1,2,3,4,7,8-HxCDF

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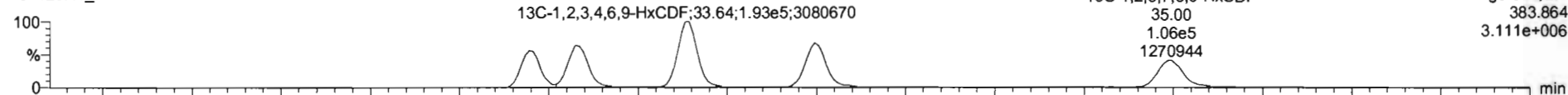


201126R1_7

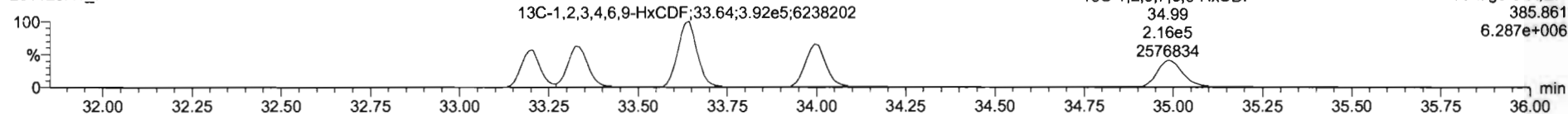


13C-1,2,3,4,7,8-HxCDF

201126R1_7

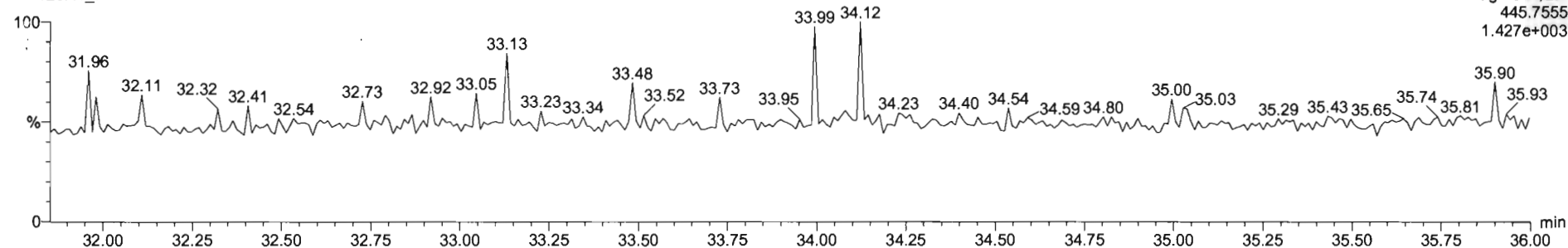


201126R1_7



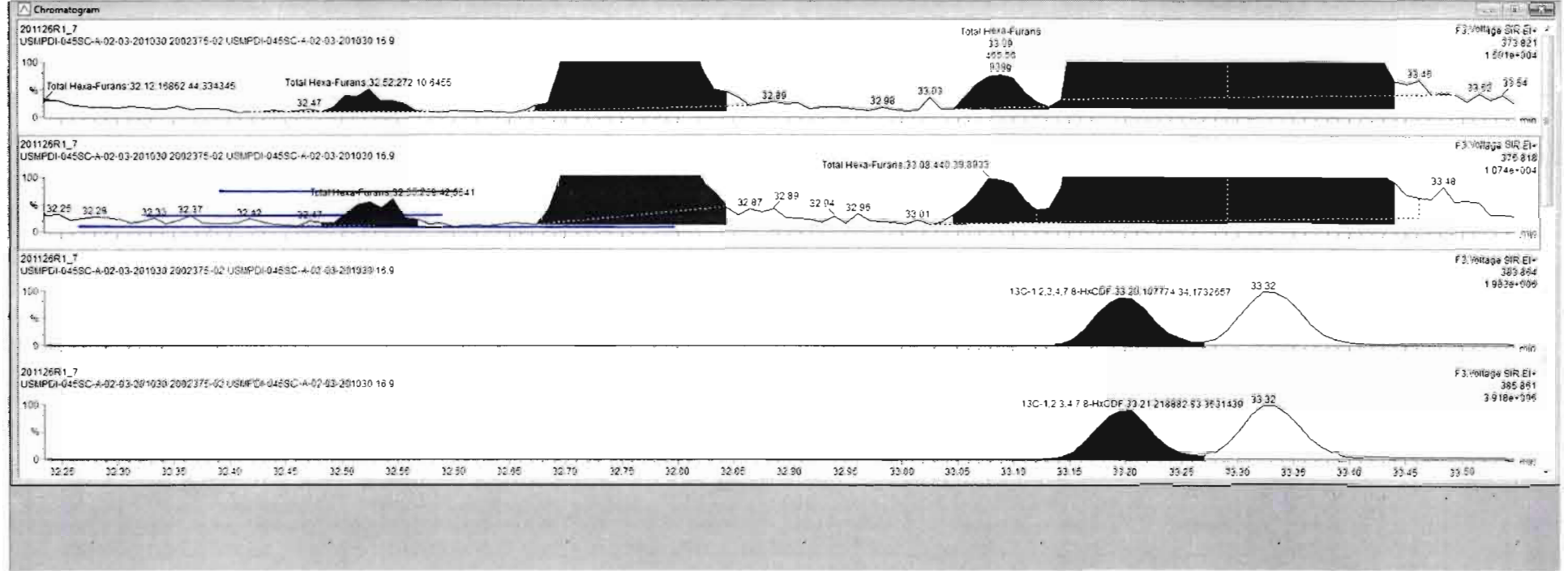
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201126R1_7



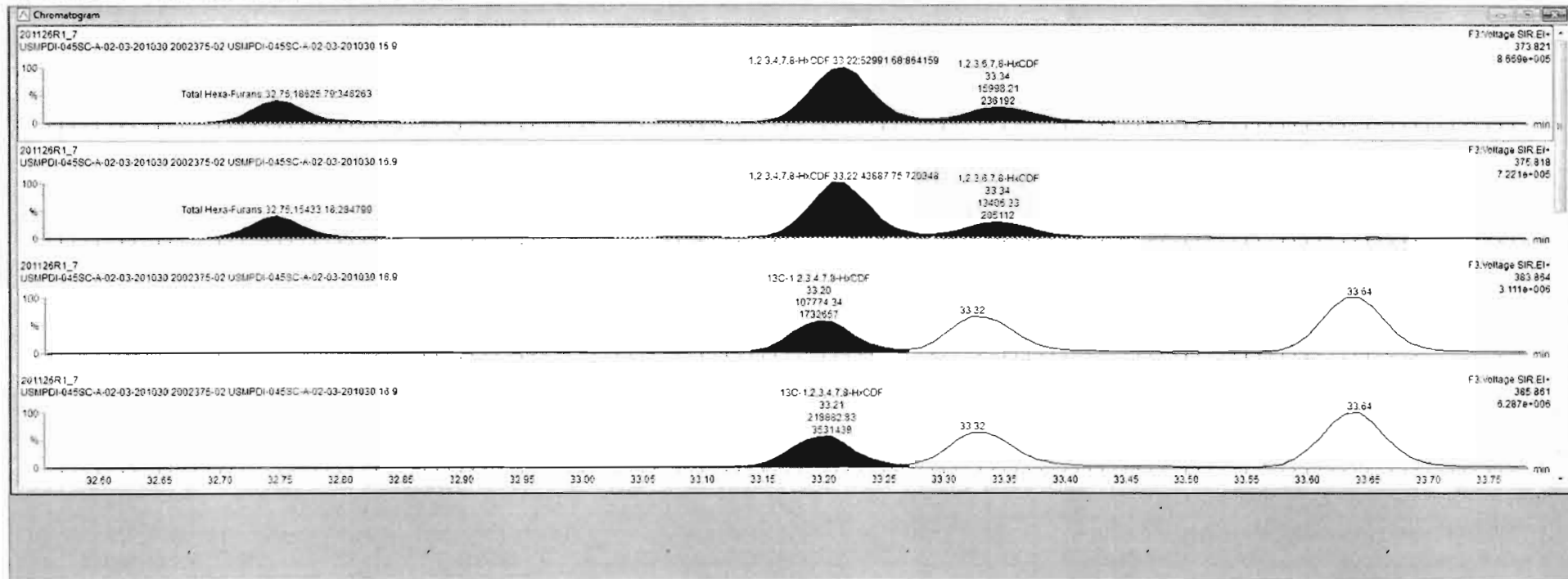
Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.281			47.4	0.340	11.7	
44 1st Func. Penta-Furans				0.9926	10.291			8.29	0.0542	8.29	
45 Total Penta-Furans				0.5628	10.291			66.0	0.495	66.0	
46 Total Hexa-Furans				0.5907	10.281			124	0.314	124	
47 Total Hepta-Furans				0.9996	10.291			106	0.560	106	
48 PFK1											

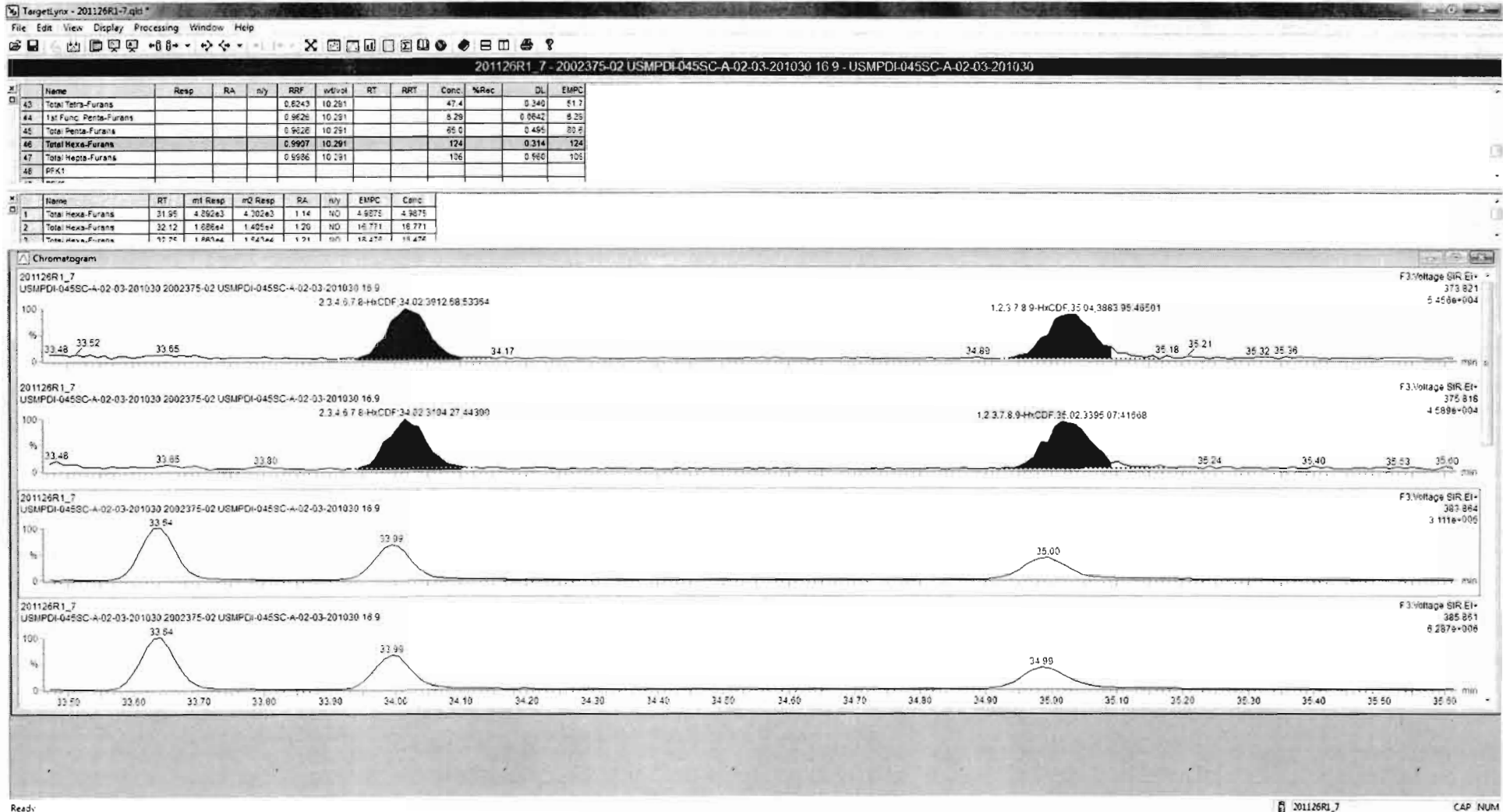
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	31.95	4.352e3	4.702e3	1.14	NO	4.9875	4.9875
2 Total Hexa-Furans	32.12	1.688e4	1.405e4	1.26	NO	18.771	18.771
3 Total Hexa-Furans	33.03	3.721e3	3.582e3	1.06	NFS	0.3684	0.3684



ID	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.0243	10.291			47.4	0.340	51.7	
44	1st Func. Penta-Furans				0.9626	10.291			8.29	0.0642	8.29	
45	Total Penta-Furans				0.9626	10.291			65.0	0.496	85.6	
46	Total Hexa-Furans				0.9907	10.291			124	0.314	124	
47	Total Hepta-Furans				0.6986	10.291			106	0.560	106	
48	PF4											

ID	Name	RT	ml Resp	ng Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	31.95	4.892e3	4.702e3	1.14	NO	4.9875	4.9875
2	Total Hexa-Furans	32.12	1.686e4	1.405e4	1.20	NO	16.771	16.771
3	Total Hexa-Furans	32.75	1.967e4	1.671e4	1.21	NO	18.274	18.274





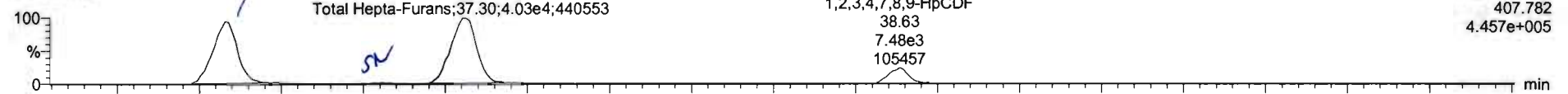
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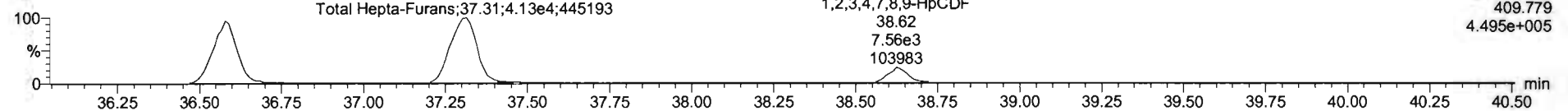
Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

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

201126R1_7

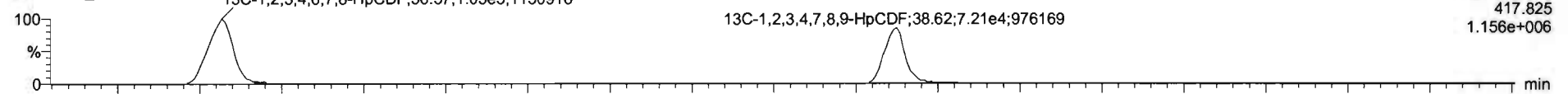


201126R1_7

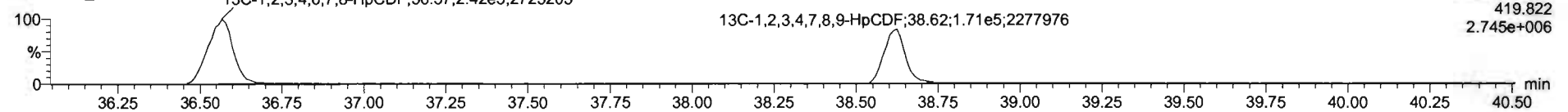


13C-1,2,3,4,6,7,8-HpCDF

201126R1_7

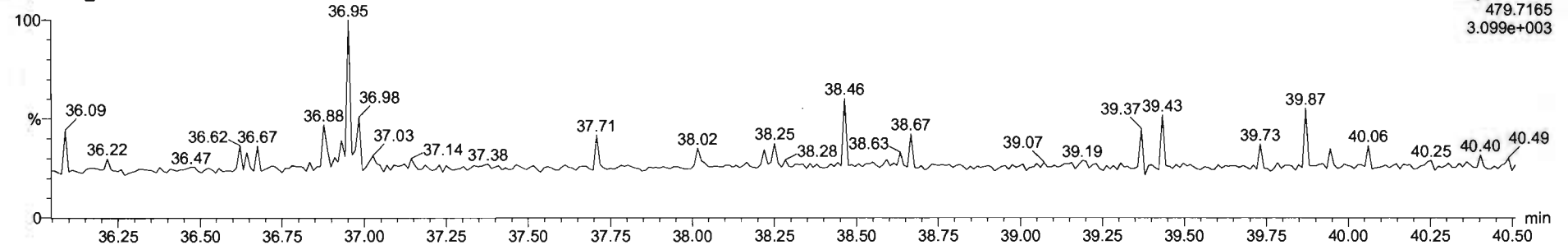


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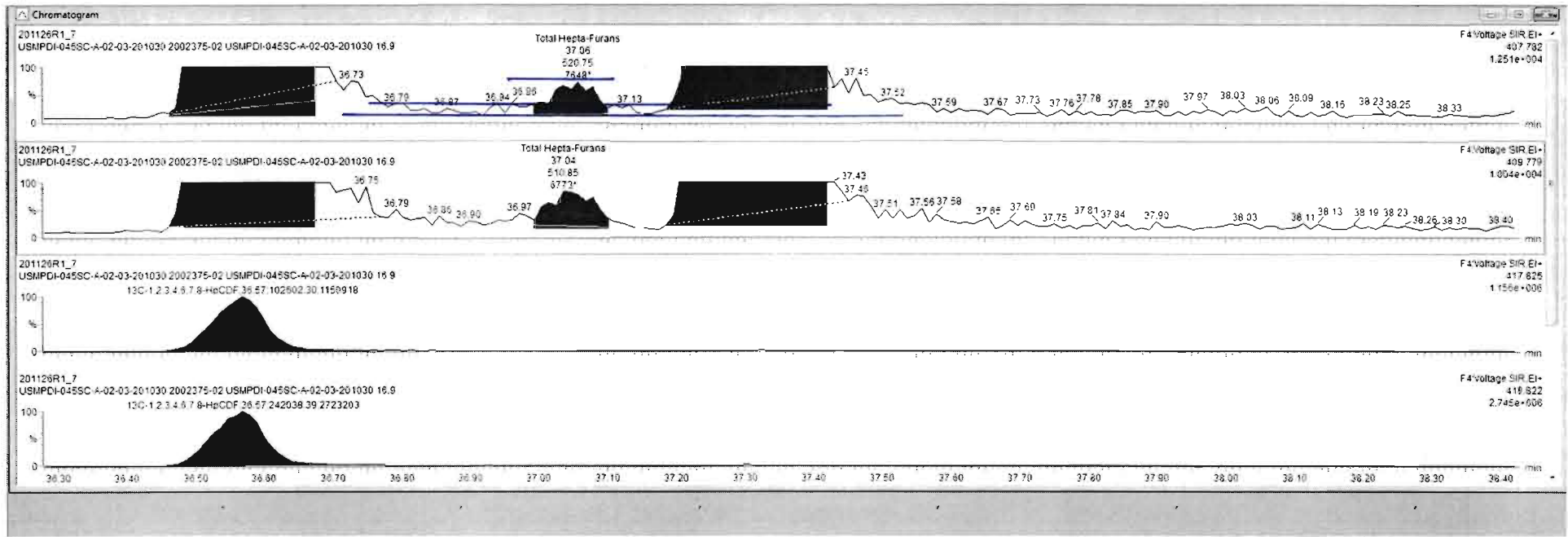
DPE4

201126R1_7



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.6243	10.291			47.4	0.340	51.7	
44	1st Func. Penta-Furans				0.9626	10.291			8.29	0.0642	8.29	
45	Total Penta-Furans				0.9626	10.291			86.7	0.495	89.9	
46	Total Hexa-Furans				0.9907	10.291			124	0.314	124	
47	Total Hepta-Furans				0.9986	10.291			107	0.560	107	
48	PK1											

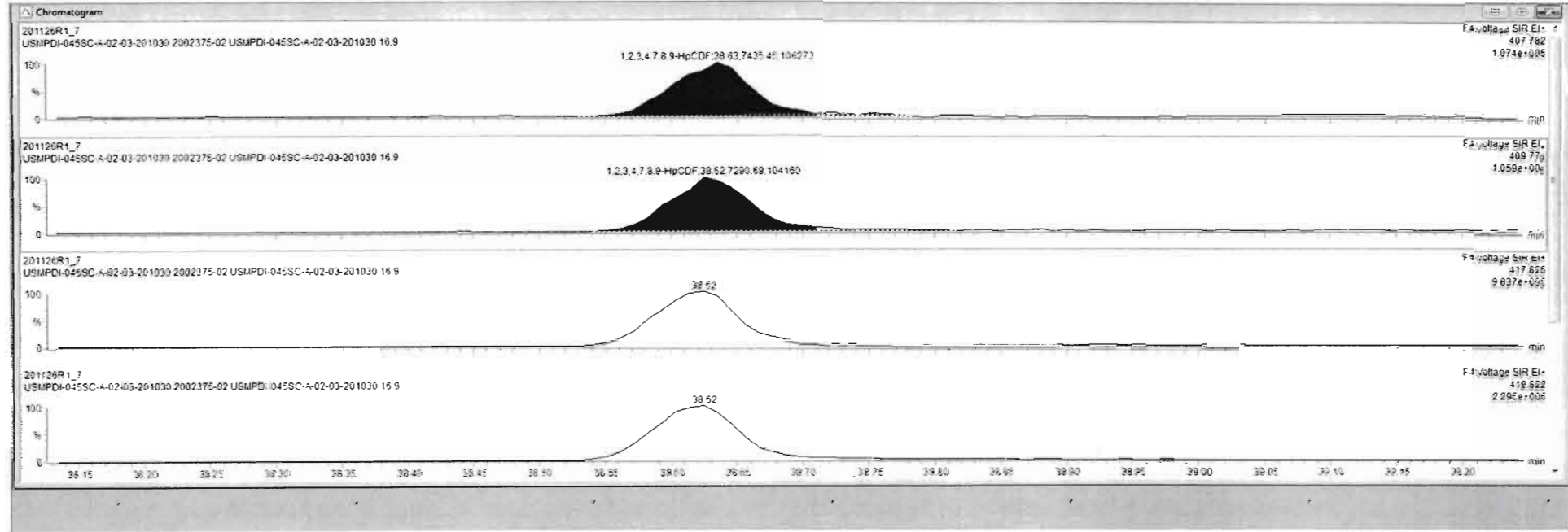
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1,2,3,4,6,7,8-HxCDF	36.53	3.612e4	3.582e4	1.01	NO	49.627	45.627
2	Total Hepta-Furans	37.06	6.908e2	5.825e2	1.18	NO	3.84432	0.84132
3	Total Hepta-Furans	37.50	4.977e4	4.166e4	0.98	NO	54.627	54.627
4	1,2,3,4,7,8,9-HxCDF	38.63	7.435e3	7.291e3	1.02	NO	10.486	10.486



201126R1_7 - 2002375-02 USMPDI-045SC-A-02-03-201030 16.9 - USMPDI-045SC-A-02-03-201030

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.291			47.4		0.340	51.7
44 1st Func Penta-Furans				0.9626	10.291			8.25		0.0642	8.29
45 Total Penta-Furans				0.9626	10.291			85.0		0.495	80.0
46 Total Hexa-Furans				0.9907	10.291			124		0.314	124
47 Total Hepta-Furans				0.9986	10.291			106		0.560	106
48 PPK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	38.58	3.548e4	3.575e4	1.02	NO	40.789	40.789
2 Total Hepta-Furans	37.30	4.077e4	4.166e4	0.96	NO	54.627	54.627
3 1,2,3,4,7,8,9-HpCDF	38.63	7.436e3	7.291e3	1.02	NO	10.486	10.486

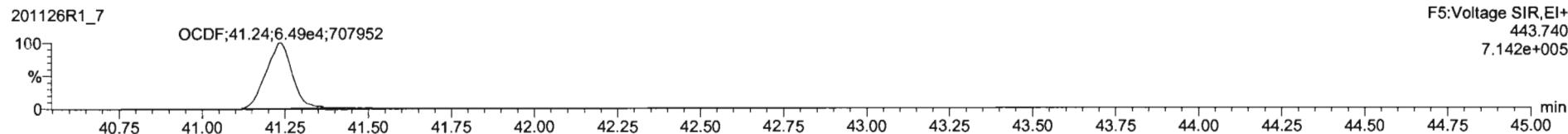
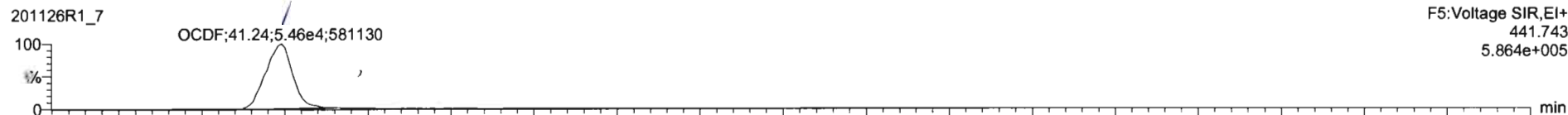


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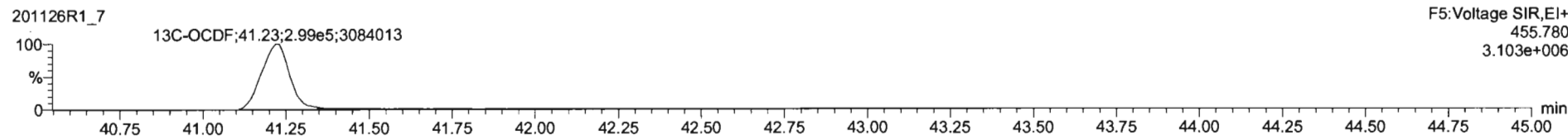
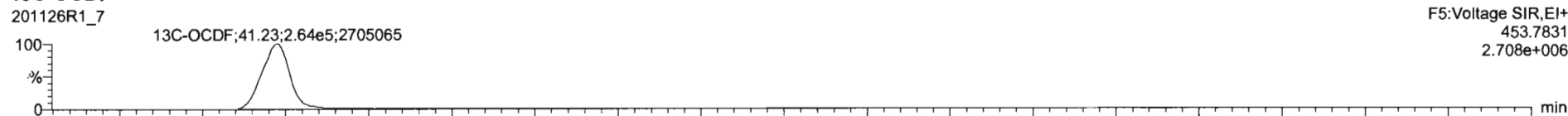
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_7, Date: 26-Nov-2020, Time: 13:05:59, ID: 2002375-02 USMPDI-045SC-A-02-03-201030 16.9, Description: USMPDI-045SC-A-02-03-201030

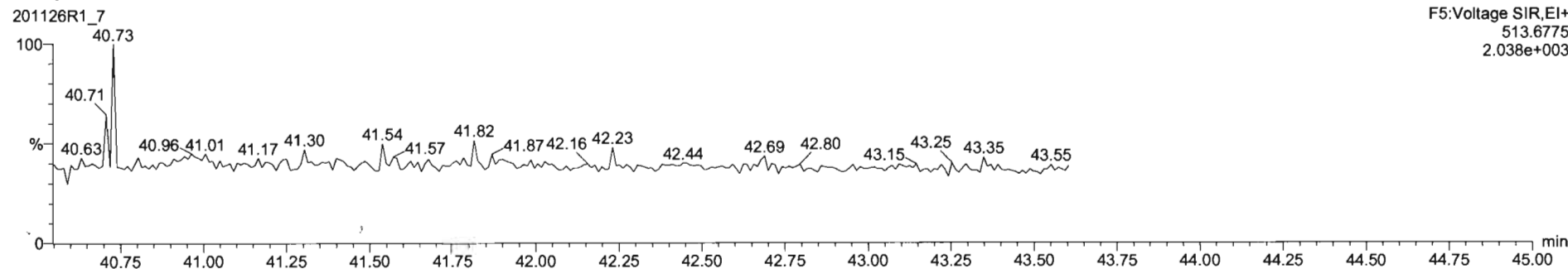
OCDF



13C-OCDF



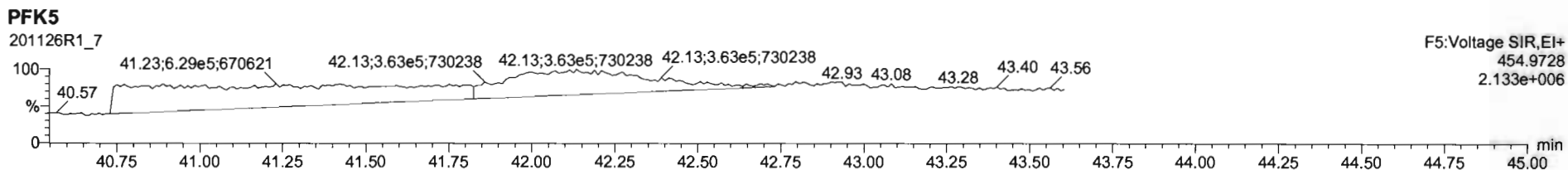
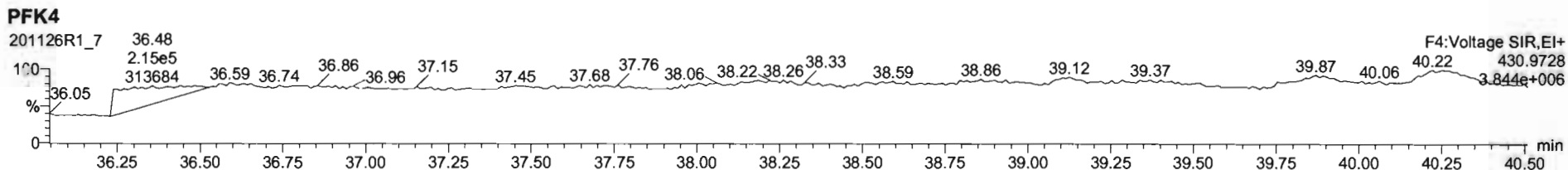
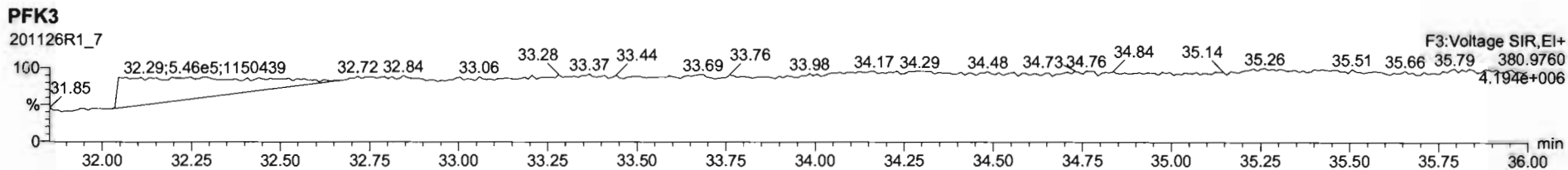
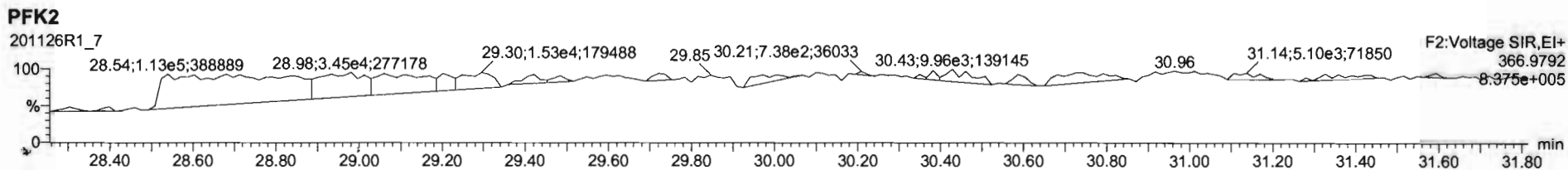
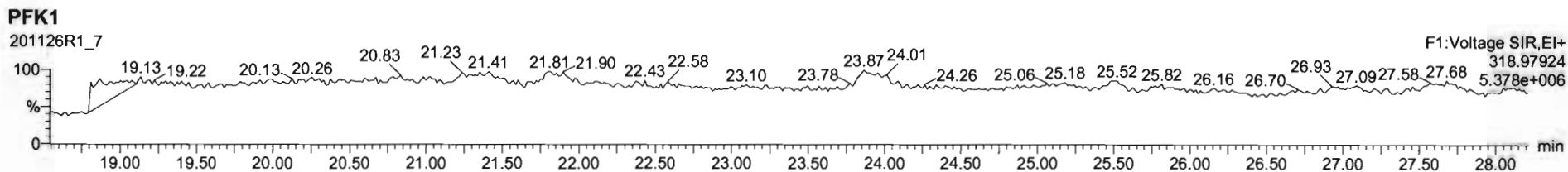
DPE5



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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-8.qld

Last Altered: Thursday, December 03, 2020 10:40:41 Pacific Standard Time
Printed: Thursday, December 03, 2020 10:48:43 Pacific Standard Time

HN 12/03/2020

CT 12/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_8, Date: 26-Nov-2020, Time: 13:50:51, ID: 2002375-03 USMPDI-045SC-A-03-04-201030 11.52, Description: USMPDI-045SC-A-03-04-201030

#	Name	Resp	RA	n/y	RRF	wt/voi	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	3.98e2	0.26	YES	0.950	10.007	26.082	26.07	1.001	1.001	0.12926		0.0748	0.0618
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.007	30.784		1.000				0.134	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.007	34.122		1.000				0.113	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.007	34.239		1.000				0.120	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.007	34.505		1.000				0.129	
6	6 1,2,3,4,6,7,8-HpCDD	4.96e3	1.04	NO	0.870	10.007	37.995	37.99	1.000	1.000	3.0788		0.330	3.08
7	7 OCDD	6.27e4	0.89	NO	0.872	10.007	40.995	41.01	1.000	1.000	55.149		0.547	55.1
8	8 2,3,7,8-TCDF	1.45e3	0.73	NO	0.824	10.007	25.367	25.37	1.000	1.001	0.33456		0.0459	0.335
9	9 1,2,3,7,8-PeCDF	1.70e3	1.80	YES	0.963	10.007	29.525	29.53	1.000	1.001	0.43066		0.0976	0.398
10	10 2,3,4,7,8-PeCDF	1.36e3	1.36	NO	1.07	10.007	30.587	30.59	1.000	1.000	0.32994		0.0718	0.330
11	11 1,2,3,4,7,8-HxCDF	1.45e3	1.30	NO	0.953	10.007	33.196	33.23	1.000	1.001	0.53984		0.0865	0.540
12	12 1,2,3,6,7,8-HxCDF	5.82e2	1.30	NO	1.01	10.007	33.334	33.35	1.000	1.001	0.20200		0.0839	0.202
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.007	34.008		1.000				0.0967	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.007	34.985		1.000				0.135	
15	15 1,2,3,4,6,7,8-HpCDF	1.60e3	0.85	YES	0.999	10.007	36.572	36.59	1.000	1.001	0.75608		0.0803	0.683
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.007	38.624		1.000				0.0860	
17	17 OCDF	2.73e3	0.83	NO	0.868	10.007	41.291	41.28	1.000	1.000	1.9692		0.245	1.97
18	18 13C-2,3,7,8-TCDD	6.47e5	0.82	NO	1.11	10.007	26.044	26.05	1.030	1.030	196.67	98.4	0.270	
19	19 13C-1,2,3,7,8-PeCDD	4.07e5	0.65	NO	0.859	10.007	30.757	30.77	1.216	1.217	159.79	79.9	0.372	
20	20 13C-1,2,3,4,7,8-HxCDD	4.04e5	1.31	NO	0.700	10.007	34.111	34.11	1.014	1.014	181.89	91.0	0.807	
21	21 13C-1,2,3,6,7,8-HxCDD	4.62e5	1.32	NO	0.833	10.007	34.249	34.23	1.018	1.017	174.57	87.3	0.678	
22	22 13C-1,2,3,7,8,9-HxCDD	4.42e5	1.22	NO	0.762	10.007	34.491	34.49	1.025	1.025	182.59	91.4	0.742	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.70e5	1.03	NO	0.650	10.007	37.973	37.99	1.129	1.129	179.34	89.7	0.812	
24	24 13C-OCDD	5.21e5	0.91	NO	0.539	10.007	40.937	40.99	1.217	1.219	304.15	76.1	0.723	
25	25 13C-2,3,7,8-TCDF	1.05e6	0.77	NO	0.981	10.007	25.366	25.36	1.003	1.003	192.52	96.3	0.308	
26	26 13C-1,2,3,7,8-PeCDF	8.10e5	1.65	NO	0.792	10.007	29.490	29.52	1.166	1.167	183.46	91.8	0.581	
27	27 13C-2,3,4,7,8-PeCDF	7.71e5	1.63	NO	0.778	10.007	30.547	30.59	1.208	1.210	177.98	89.1	0.592	
28	28 13C-1,2,3,4,7,8-HxCDF	5.61e5	0.50	NO	0.954	10.007	33.202	33.20	0.987	0.987	185.36	92.7	0.572	
29	29 13C-1,2,3,6,7,8-HxCDF	5.72e5	0.50	NO	1.01	10.007	33.333	33.33	0.991	0.991	178.93	89.5	0.543	
30	30 13C-2,3,4,6,7,8-HxCDF	5.50e5	0.50	NO	0.921	10.007	34.003	34.01	1.011	1.011	188.07	94.1	0.593	
31	31 13C-1,2,3,7,8,9-HxCDF	4.82e5	0.48	NO	0.803	10.007	34.999	34.99	1.040	1.040	188.86	94.5	0.679	

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-8.qld

Last Altered: Thursday, December 03, 2020 10:40:41 Pacific Standard Time
Printed: Thursday, December 03, 2020 10:48:43 Pacific Standard Time

Name: 201126R1_8, Date: 26-Nov-2020, Time: 13:50:51, ID: 2002375-03 USMPDI-045SC-A-03-04-201030 11.52, Description: USMPDI-045SC-A-03-04-201030

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.24e5	0.42	NO	0.735	10.007	36.567	36.57	1.087	1.087	181.40	90.8	0.688	
33	13C-1,2,3,4,7,8,9-HpCDF	3.07e5	0.42	NO	0.568	10.007	38.602	38.62	1.147	1.148	170.16	85.1	0.891	
34	13C-OCDF	6.39e5	0.86	NO	0.629	10.007	41.219	41.28	1.225	1.227	319.71	80.0	0.761	
35	37Cl-2,3,7,8-TCDD	3.01e5			1.09	10.007	26.044	26.07	1.030	1.031	93.294	117	0.0996	
36	13C-1,2,3,4-TCDD	5.93e5	0.81	NO	1.00	10.007	25.370	25.28	1.000	1.000	199.86	100	0.299	
37	13C-1,2,3,4-TCDF	1.11e6	0.79	NO	1.00	10.007	23.870	23.78	1.000	1.000	199.86	100	0.302	
38	13C-1,2,3,4,6,9-HxCDF	6.35e5	0.49	NO	1.00	10.007	33.710	33.64	1.000	1.000	199.86	100	0.546	
39	Total Tetra-Dioxins				0.950	10.007	24.620		0.000		0.18138		0.0718	0.243
40	Total Penta-Dioxins				0.885	10.007	29.960		0.000				0.0788	
41	Total Hexa-Dioxins				0.915	10.007	33.635		0.000		0.83562		0.126	1.41
42	Total Hepta-Dioxins				0.870	10.007	37.640		0.000		7.7170		0.330	7.72
43	Total Tetra-Furans				0.824	10.007	23.610		0.000		0.66462		0.0459	0.665
44	1st Func. Penta-Furans				0.963	10.007	26.930		0.000		0.00000		0.0100	0.139
45	Total Penta-Furans				0.963	10.007	29.275		0.000		0.60113		0.0806	1.32
46	Total Hexa-Furans				0.991	10.007	33.555		0.000		1.3779		0.0976	1.38
47	Total Hepta-Furans				0.999	10.007	37.835		0.000		1.1128		0.0872	1.80
48	PFK1													

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-8.qld

Last Altered: Thursday, December 03, 2020 10:40:41 Pacific Standard Time

Printed: Thursday, December 03, 2020 10:48:43 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613\rt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_8, Date: 26-Nov-2020, Time: 13:50:51, ID: 2002375-03 USMPDI-045SC-A-03-04-201030 11.52, Description: USMPDI-045SC-A-03-04-201030

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.97	3.692e3	4.712e3	2.433e2	3.147e2	0.77	NO	5.580e2	0.18138	0.18138	0.0718
2	2,3,7,8-TCDD	26.07	2.155e3	6.383e3	8.276e1	3.149e2	0.26	YES	3.976e2	0.00000	0.061843	0.0718

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.48	1.774e4	1.511e4	9.276e2	7.392e2	1.25	NO	1.667e3	0.83562	0.83562	0.126
2	Total Hexa-Dioxins	33.38	9.351e3	6.561e3	7.718e2	5.136e2	1.50	YES	0.000e0	0.00000	0.57671	0.126

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.97	4.132e4	3.929e4	3.718e3	3.750e3	0.99	NO	7.468e3	4.6382	4.6382	0.330
2	1,2,3,4,6,7,8-HpCDD	37.99	3.081e4	2.804e4	2.528e3	2.429e3	1.04	NO	4.957e3	3.0788	3.0788	0.330

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.37	9.427e3	1.138e4	6.196e2	8.139e2	0.76	NO	1.434e3	0.33005	0.33005	0.0459
2	2,3,7,8-TCDF	25.37	9.745e3	1.501e4	6.120e2	8.411e2	0.73	NO	1.453e3	0.33456	0.33456	0.0459

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	26.93	5.285e3	5.133e3	3.216e2	2.920e2	1.10	YES	0.000e0	0.00000	0.13896	0.0217

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-8.qld

Last Altered: Thursday, December 03, 2020 10:40:41 Pacific Standard Time

Printed: Thursday, December 03, 2020 10:48:43 Pacific Standard Time

Name: 201126R1_8, Date: 26-Nov-2020, Time: 13:50:51, ID: 2002375-03 USMPDI-045SC-A-03-04-201030 11.52, Description: USMPDI-045SC-A-03-04-201030

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.54	1.035e4	8.231e3	7.514e2	5.905e2	1.27	YES	0.000e0	0.00000	0.32469	0.0806
2	Total Penta-Furans	29.33	6.433e3	3.200e3	1.897e2	1.209e2	1.57	NO	3.106e2	0.081580	0.081580	0.0806
3	1,2,3,7,8-PeCDF	29.53	2.126e4	1.109e4	1.094e3	6.085e2	1.80	YES	1.703e3	0.00000	0.39797	0.0816
4	Total Penta-Furans	29.80	7.671e3	5.293e3	4.159e2	3.060e2	1.36	NO	7.219e2	0.18961	0.18961	0.0806
5	2,3,4,7,8-PeCDF	30.59	1.267e4	1.098e4	7.835e2	5.772e2	1.36	NO	1.361e3	0.32994	0.32994	0.0718

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.12	9.032e3	7.027e3	4.101e2	3.666e2	1.12	NO	7.767e2	0.28946	0.28946	0.0976
2	Total Hexa-Furans	32.76	9.648e3	8.840e3	4.774e2	4.526e2	1.05	NO	9.300e2	0.34658	0.34658	0.0976
3	1,2,3,4,7,8-HxCDF	33.23	1.455e4	1.090e4	8.183e2	6.278e2	1.30	NO	1.446e3	0.53984	0.53984	0.0865
4	1,2,3,6,7,8-HxCDF	33.35	5.176e3	4.511e3	3.289e2	2.536e2	1.30	NO	5.825e2	0.20200	0.20200	0.0839

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	36.59	8.498e3	1.050e4	7.372e2	8.678e2	0.85	YES	1.605e3	0.00000	0.68300	0.0803
2	Total Hepta-Furans	37.30	1.115e4	1.151e4	9.707e2	1.060e3	0.92	NO	2.031e3	1.1128	1.1128	0.0872

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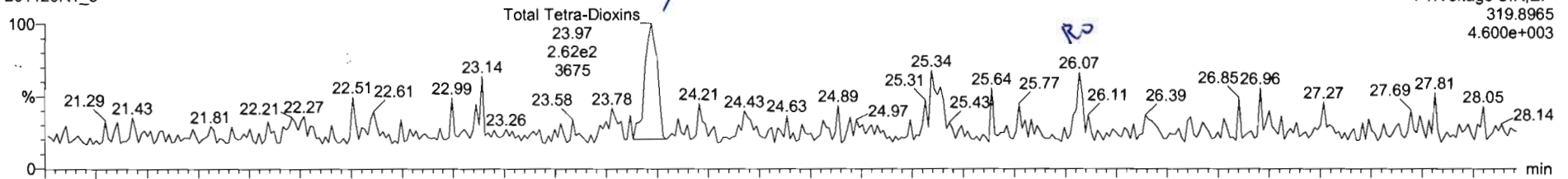
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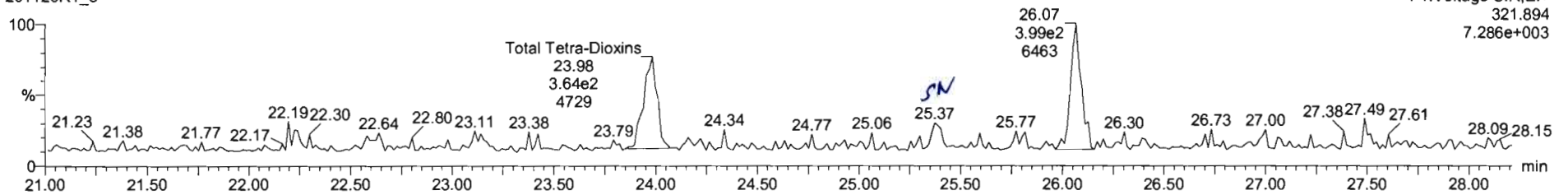
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2,3,7,8-TCDD

201126R1_8

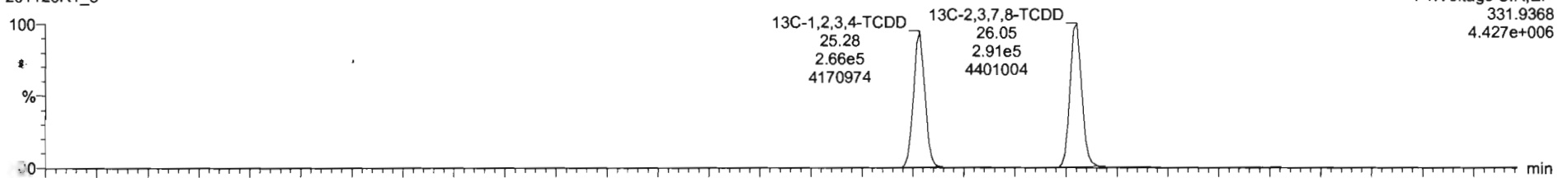


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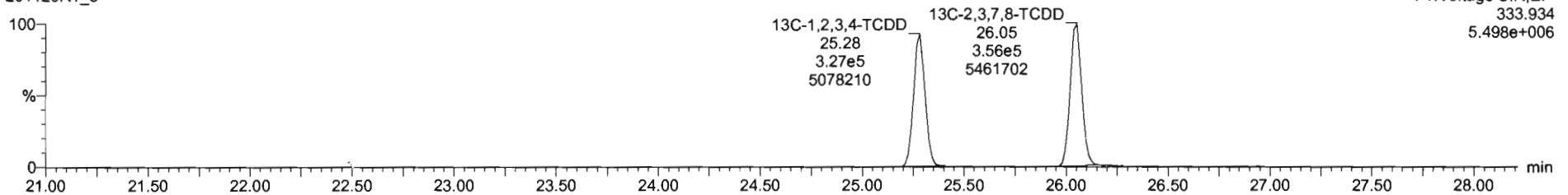


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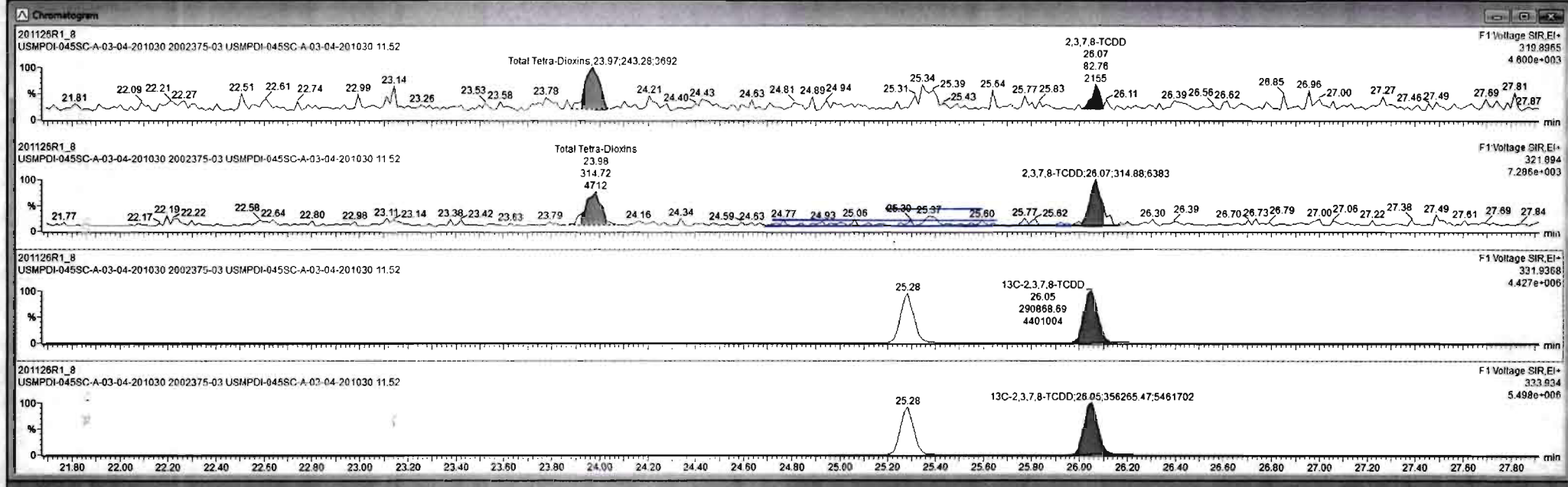
201126R1_8



201126R1_8



Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.007			8.181		0.0718	0.243
40 Total Penta-Dioxins				0.8855	10.007					0.0788	
41 Total Hexa-Dioxins				0.9145	10.007			0.836		0.125	1.41
42 Total Hepta-Dioxins				0.8697	10.007			7.72		0.330	7.72
43 Total Tetra-Furans				0.8243	10.007			0.685		0.0459	0.665
44 1st Func. Penta-Furans				0.9626	10.007			0.000		0.0100	0.139
45 Total Penta-Furans				0.9626	10.007			0.601		0.0806	1.32
46 Total Hexa-Furans				0.9907	10.007			1.38		0.0978	1.38
47 Total Hepta-Furans				0.9986	10.007			1.11		0.0872	1.80
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 OPE1											
54 OPE2											



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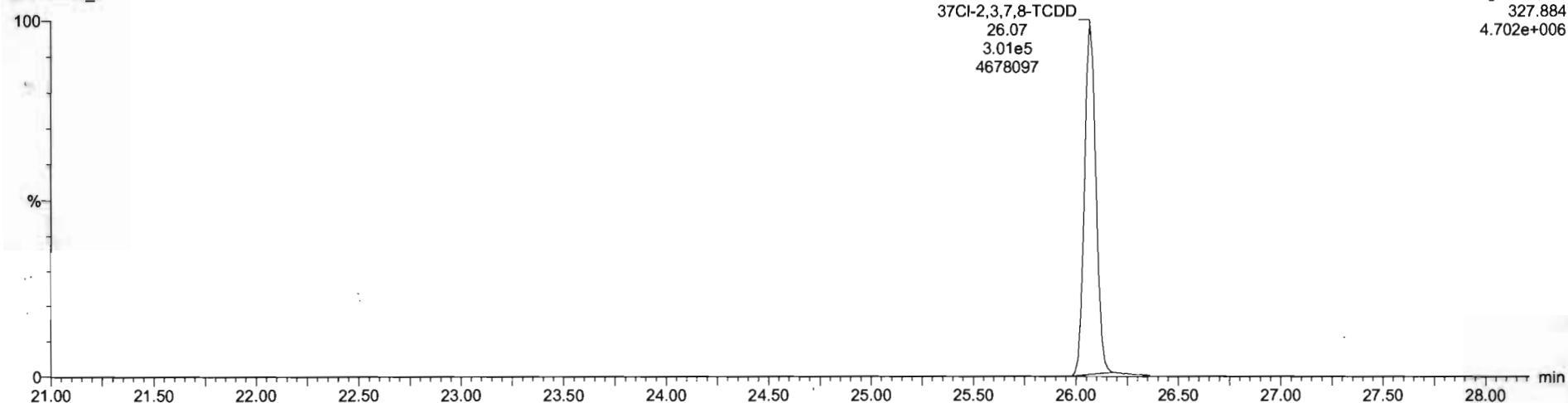
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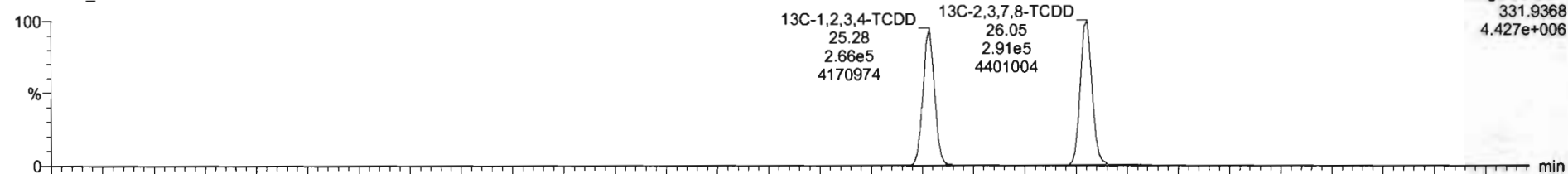
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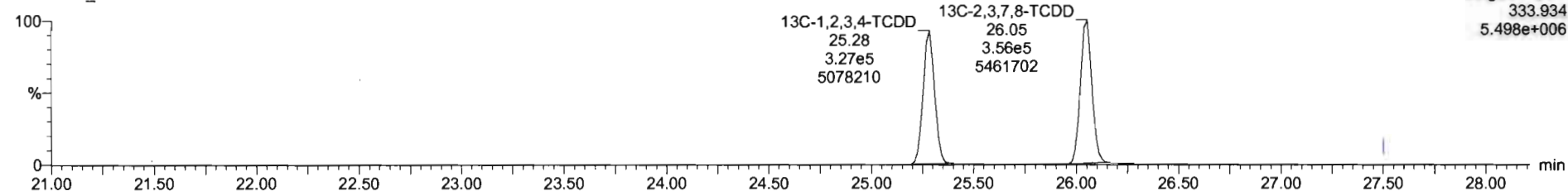


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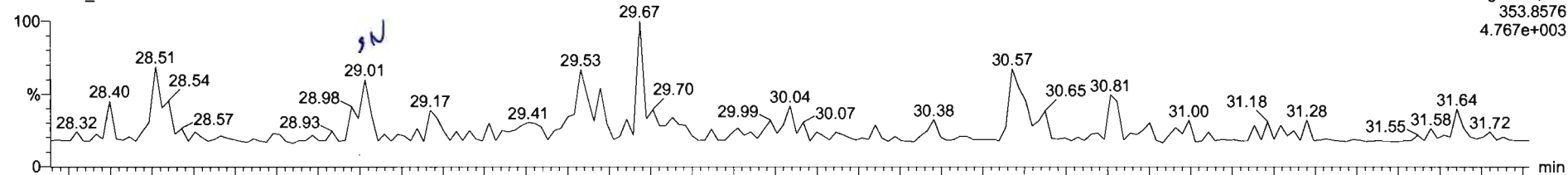
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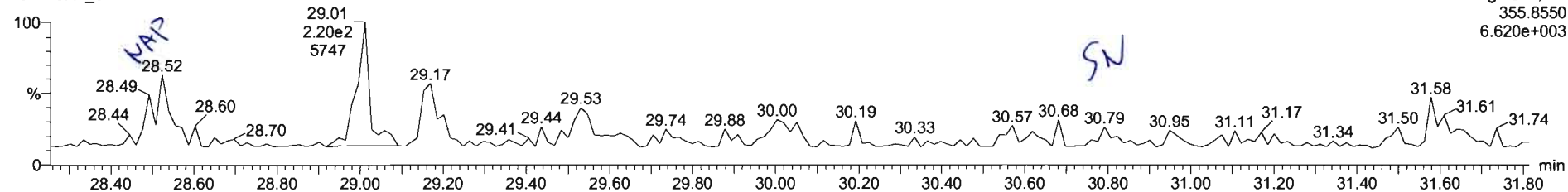
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1,2,3,7,8-PeCDD

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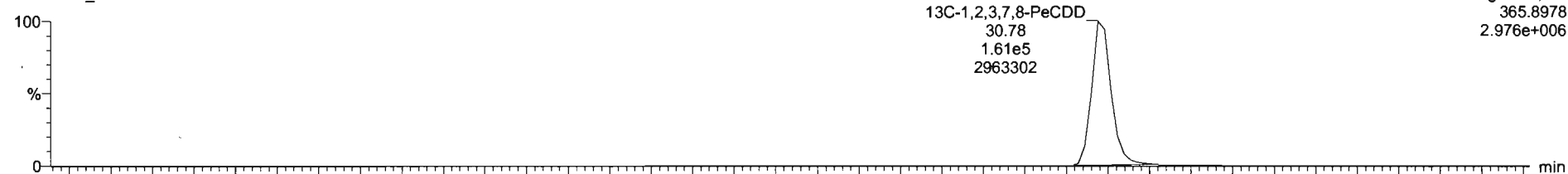


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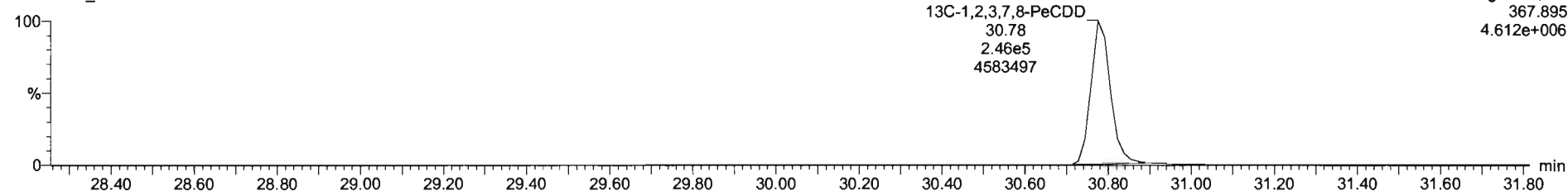


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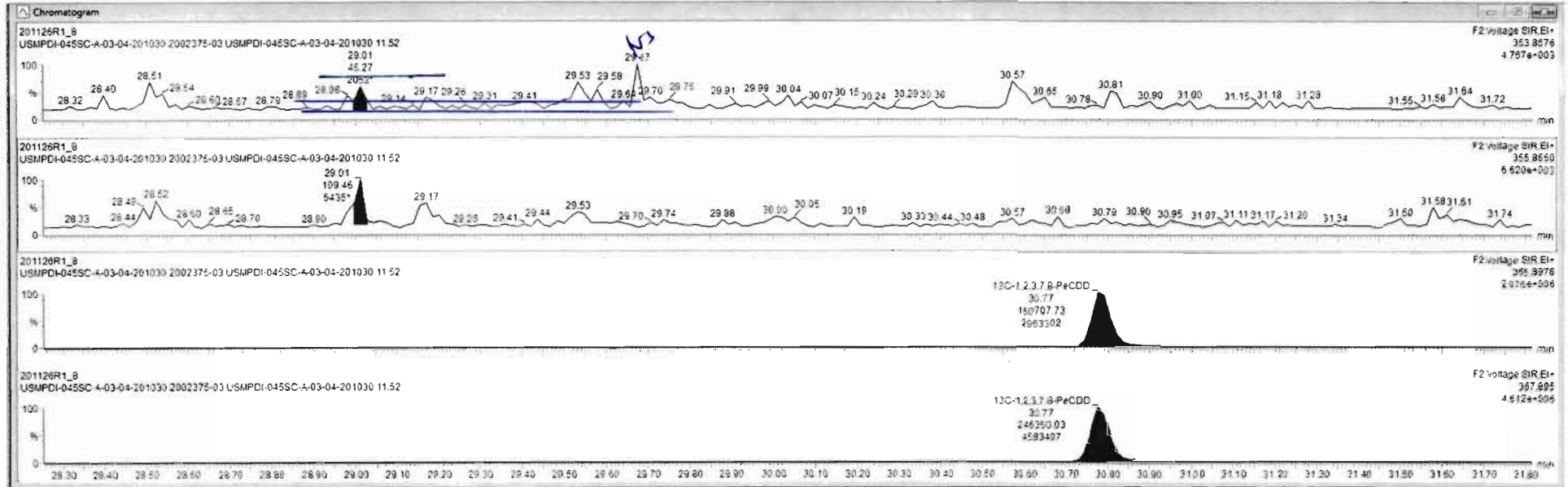


201126R1_8



#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.5501	10.007			0.183		0.0713	0.244
40	Total Penta-Dioxins				0.3855	10.007					0.0788	
41	Total Hexa-Dioxins				0.9145	10.007			0.831		0.126	1.40
42	Total Hepta-Dioxins				0.8697	10.007			7.71		0.330	7.71
43	Total Tetra-Furans				0.8243	10.007			0.864		0.0459	0.795
44	1st Func. Penta-Furans				0.9828	10.007			0.000		0.0106	0.139

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1								

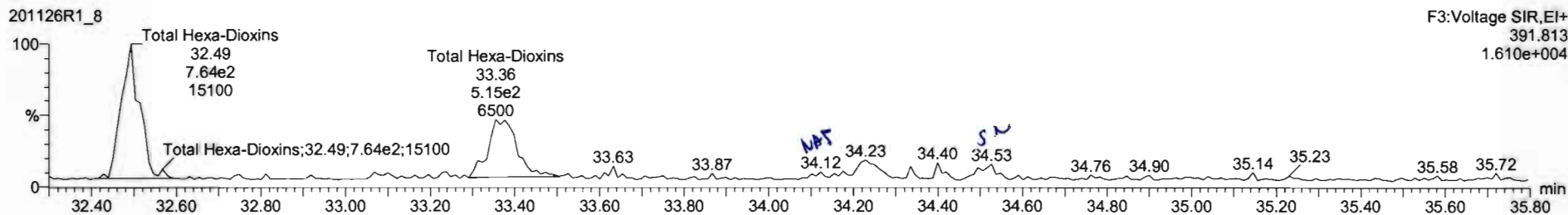
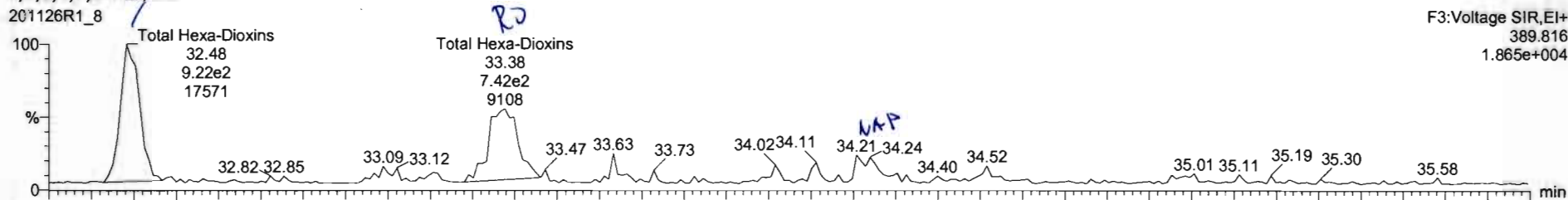


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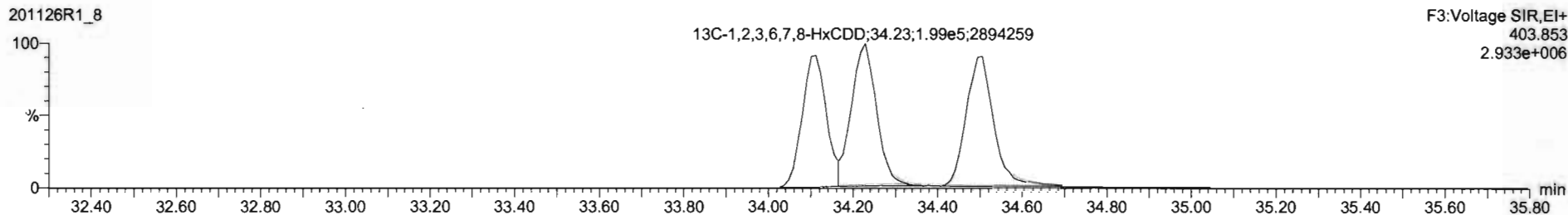
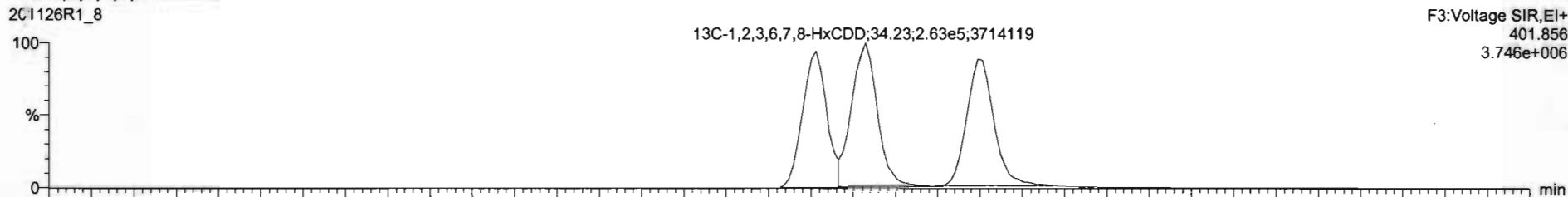
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1,2,3,4,7,8-HxCDD



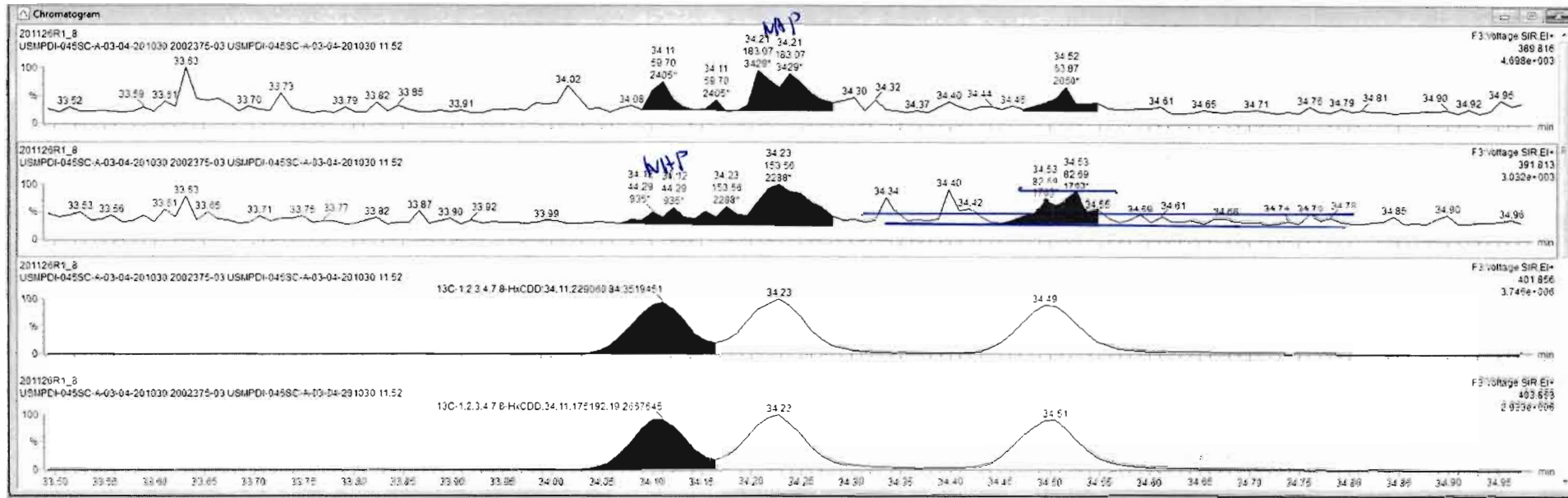
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201126R1_8 - 2002375-03 USMPDI-045SC-A-03-04-201030 11 52 - USMPDI-045SC-A-03-04-201030

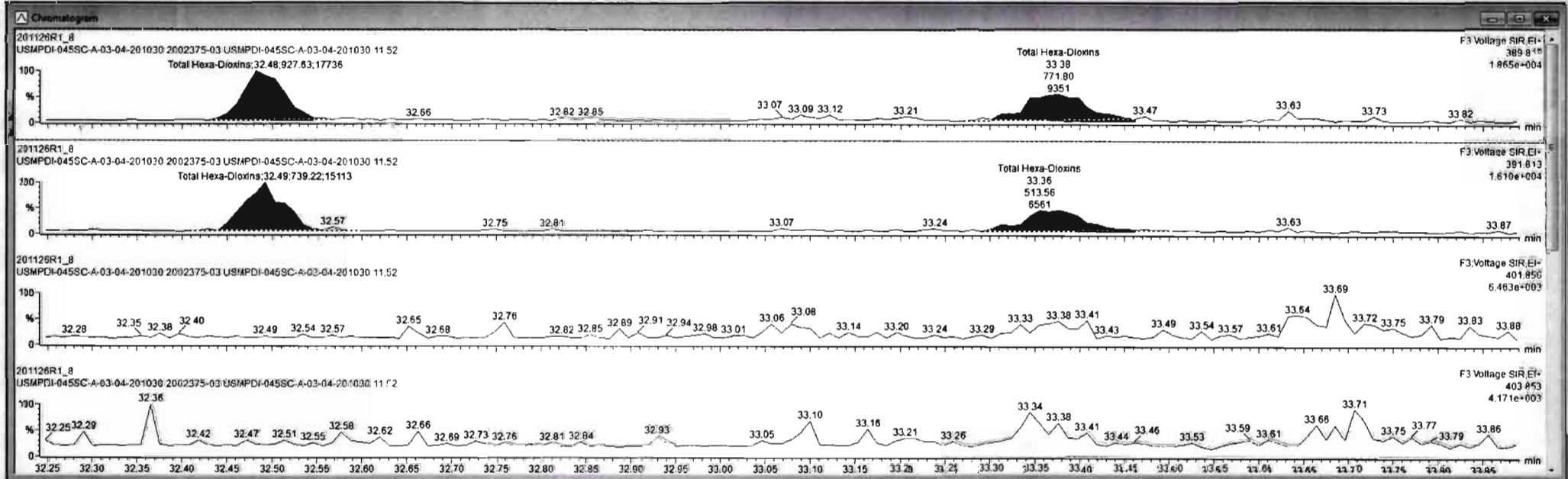
#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.5401	10.007			0.123		0.0713	0.244
40	Total Penta-Dioxins				0.8855	10.007				0.0788		
41	Total Hexa-Dioxins				0.9145	10.007			0.831		0.126	1.40
42	Total Hecta-Dioxans				0.8697	10.007			7.71		0.330	7.71
43	Total Tetra-Furans				0.8243	10.007			0.864		0.0459	0.864
44	1st Furoic Penta-Furans				0.5628	10.007			3.020		0.0100	0.139

#	Name	RT	ml Resp	ml Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Dioxins	33.48	9.18642	7.39562	1.24	NO	0.83143	0.83143
2	Total Hexa-Dioxins	33.78	7.68842	5.05142	1.50	YES	0.58714	0.00900



Name	Resp	RA	n/y	RF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
30 Total Tetra-Dioxins				0.9501	10.007			0.181		0.0718	0.243
40 Total Penta-Dioxins				0.8855	10.007					0.0768	
41 Total Hexa-Dioxins				0.9145	10.007			0.838		0.128	1.41
42 Total Hepta-Dioxins				0.8997	10.007			7.72		0.330	7.72
43 Total Tetra-Furans				0.8243	10.007			0.660		0.0459	0.791
44 1st Func. Penta-Furans				0.9626	10.007			0.000		0.0100	0.136
45 Total Penta-Furans				0.9626	10.007			0.696		0.0806	1.29

Name	RT	m1 Reso	m2 Reso	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.45	9.276e2	7.362e2	1.25	N/D	0.83602	0.83602
2 Total Hexa-Dioxins	33.38	7.718e2	5.136e2	1.50	YES	0.57671	0.00000



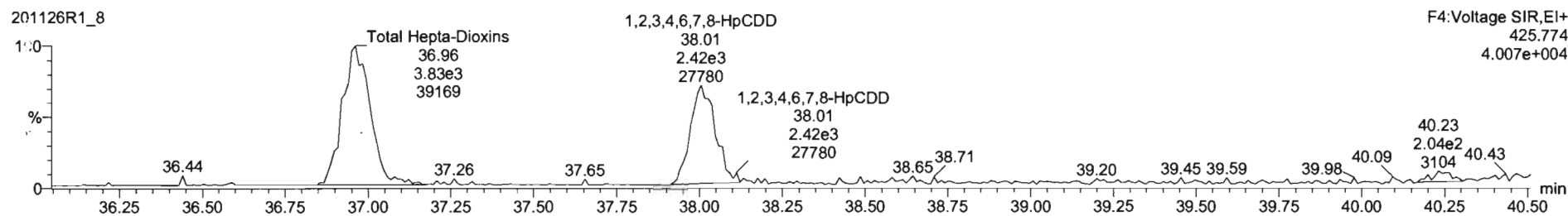
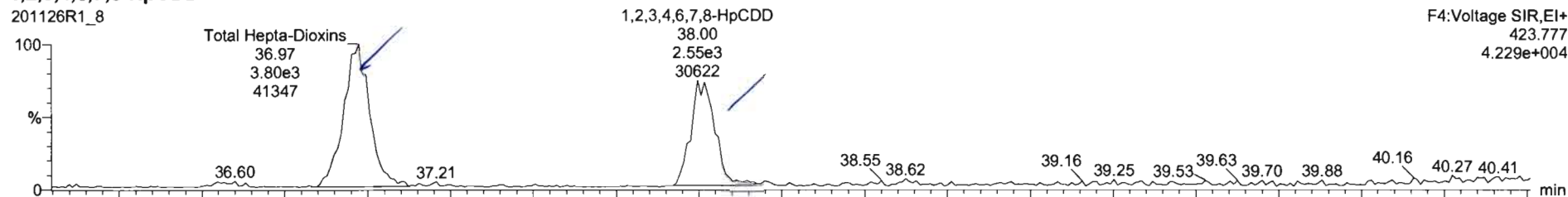
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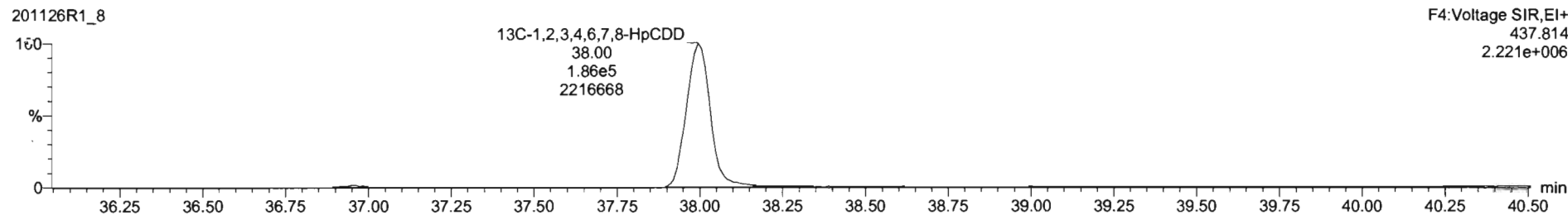
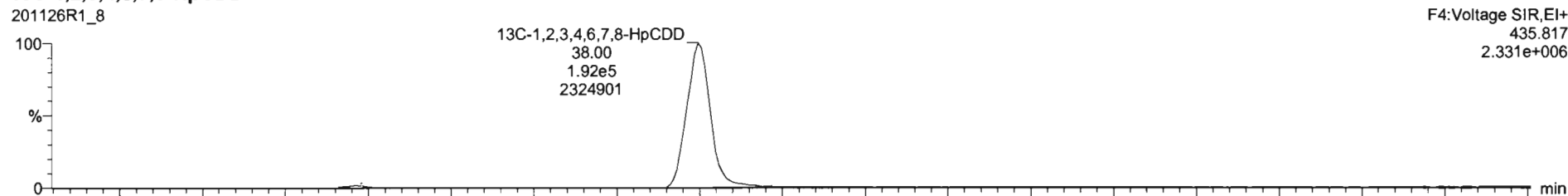
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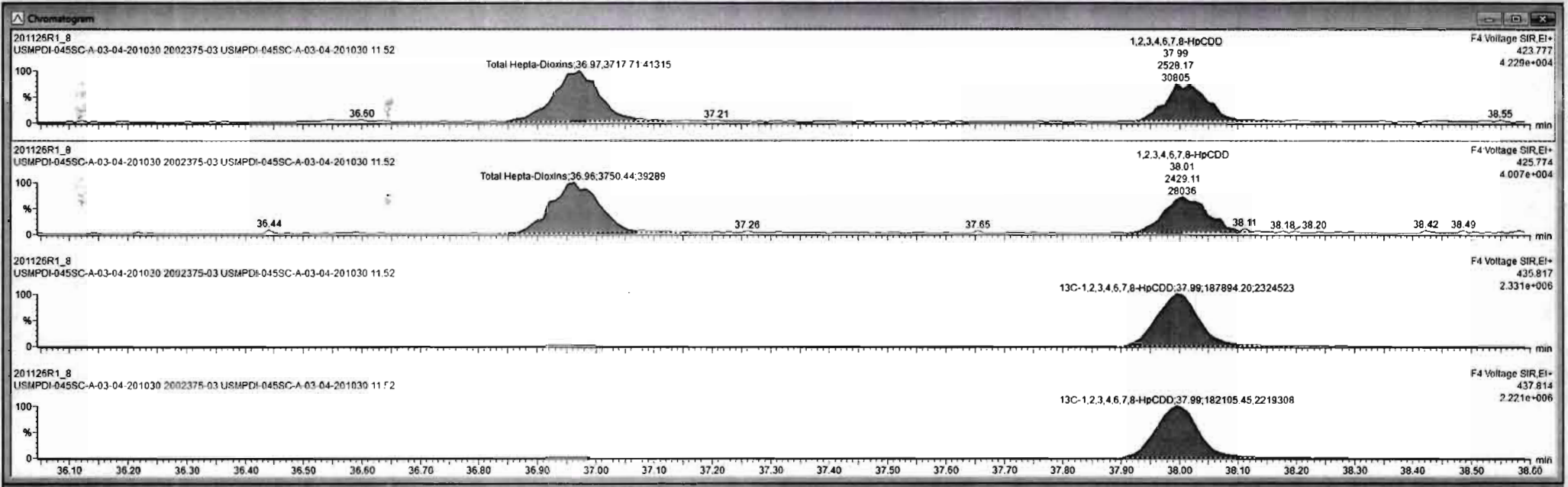
1,2,3,4,6,7,8-HpCDD



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



Name	Reap	RA	rv	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.007			0.181		0.0718	0.243
40 Total Penta-Dioxins				0.8855	10.007					0.0788	
41 Total Hexa-Dioxins				0.9145	10.007			0.838		0.128	1.41
42 Total Hepta-Dioxins				0.8897	10.007			7.72		0.330	7.72
43 Total Tetra-Furans				0.8243	10.007			0.665		0.0459	0.665
44 1st Func. Penta-Furans				0.9626	10.007			0.000		0.0100	0.139
45 Total Penta-Furans				0.9626	10.007			0.501		0.0806	1.32
46 Total Hexa-Furans				0.9907	10.007			1.38		0.0976	1.38
47 Total Hepta-Furans				0.9986	10.007			1.11		0.0872	1.80
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											



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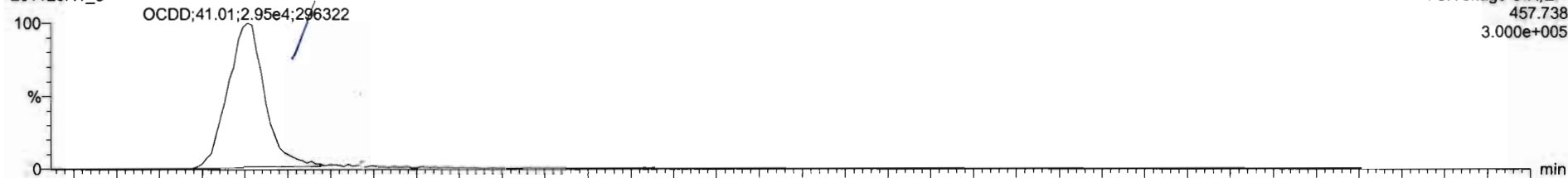
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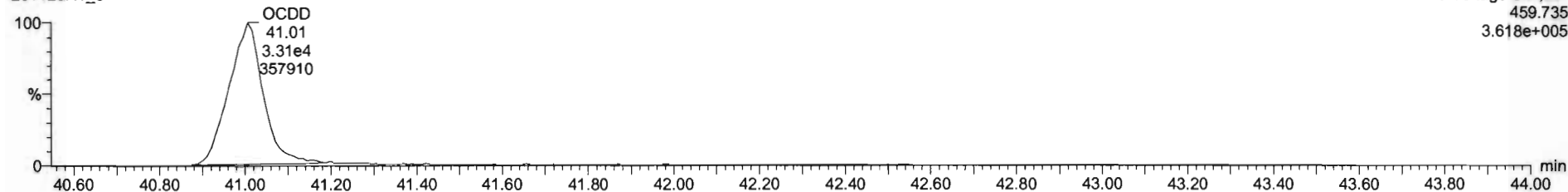
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OCDD

201126R1_8

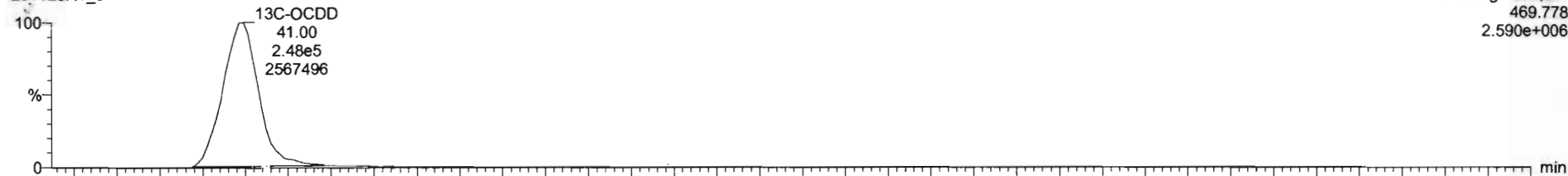


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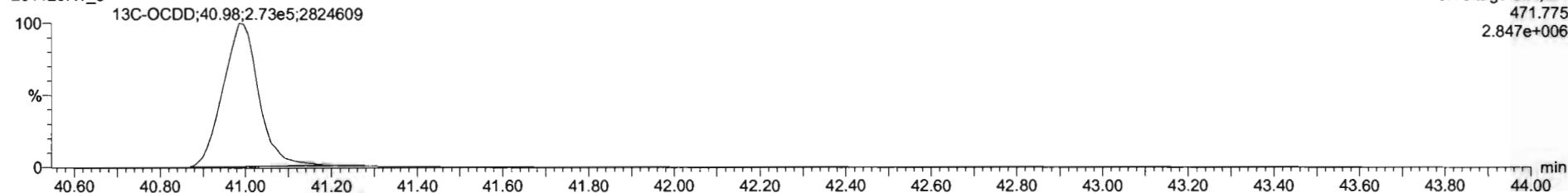


13C-OCDD

201126R1_8



201126R1_8

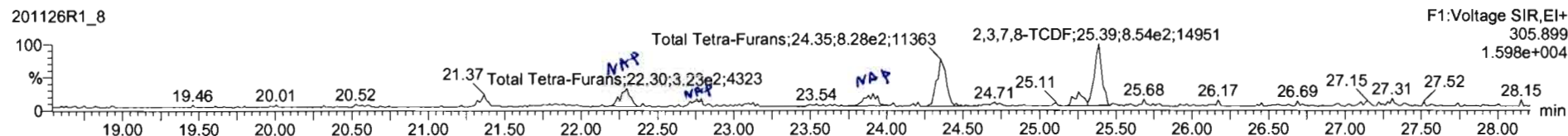
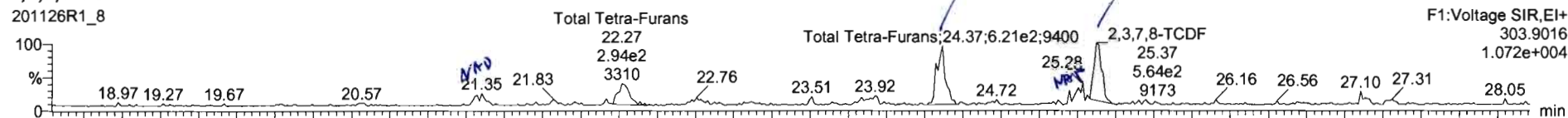


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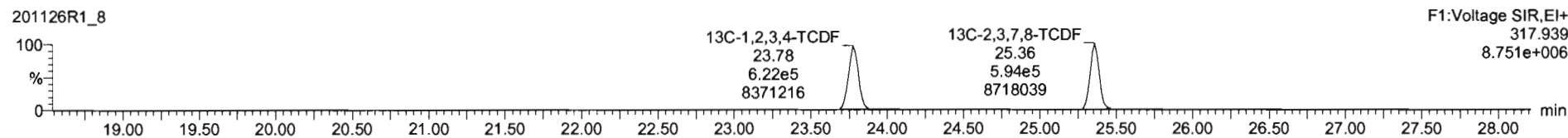
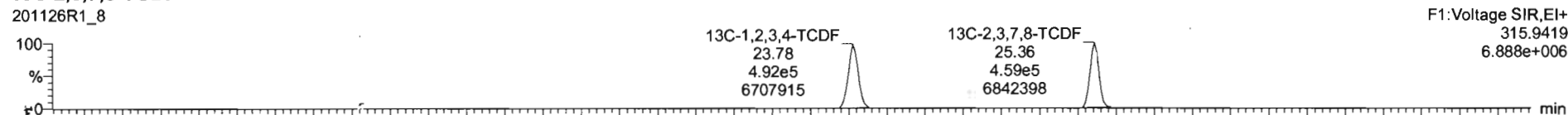
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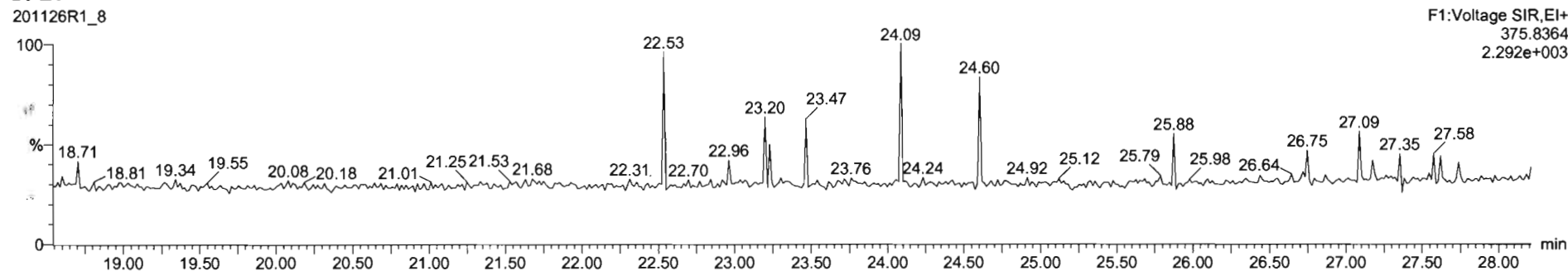
2,3,7,8-TCDF



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

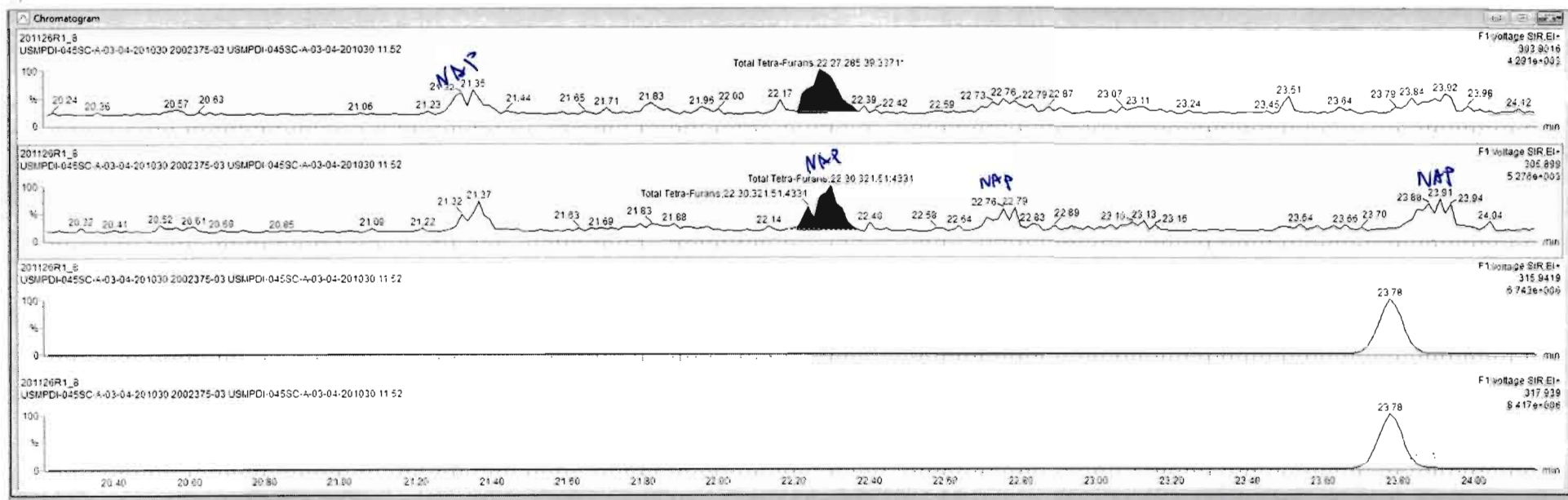


DPE1



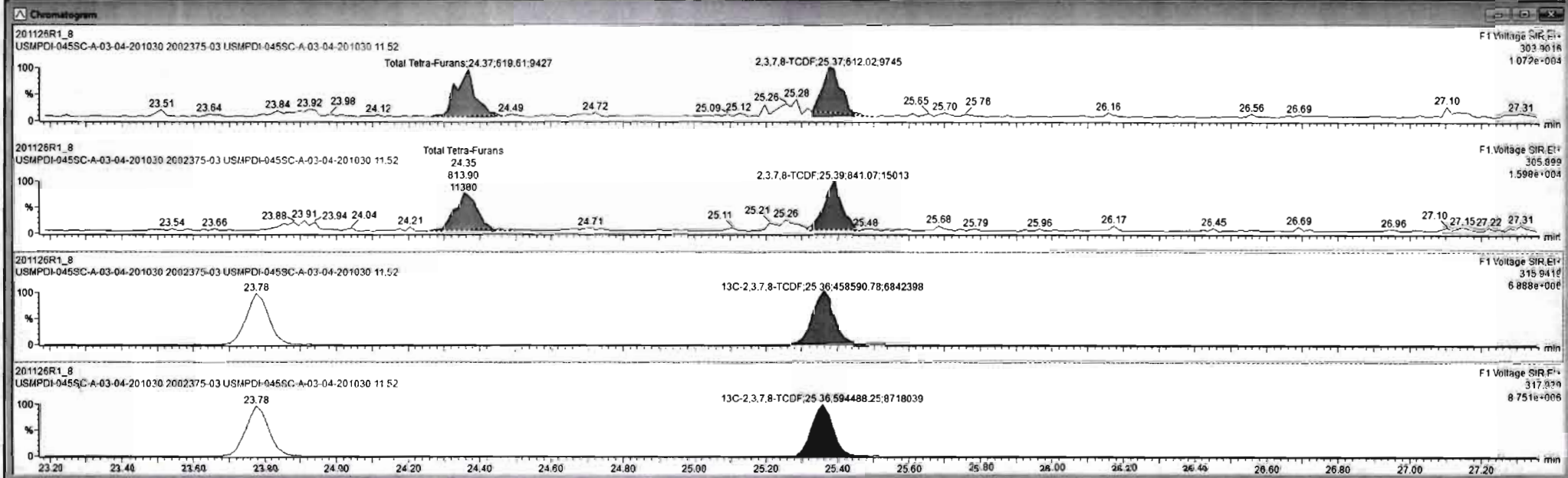
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6243	10.007			0.802	0.6459	0.602	
44 1st Func Penta-Furans				0.9626	10.007			0.000	0.0100	0.135	
45 Total Penta-Furans				0.9626	10.007			0.530	0.0006	1.25	
46 Total Hexa-Furans				0.9907	10.007			1.18	0.0978	1.80	
47 Total Hepta-Furans				0.9986	10.007			1.11	0.0872	1.30	
48 PFC											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	22.27	2.747e2	3.215e2	0.85	NO	0.13726	0.13726
2 Total Tetra-Furans	24.27	8.053e2	8.000e2	0.78	NO	0.32453	0.32453
3 2,3,7,8-TCDF	25.27	8.310e2	8.450e2	0.75	NO	0.33988	0.33988



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.007			0.668	0.0459	0.796	
44 1st Func. Penta-Furans				0.9626	10.007			0.000	0.0100	0.136	
45 Total Penta-Furans				0.9626	10.007			0.898	0.0806	1.29	
46 Total Hexa-Furans				0.9907	10.007			0.811	0.0976	1.13	
47 Total Hexa-Furans				0.9906	10.007			1.67	0.0872	1.87	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	22.27	2.942e2	3.226e2	0.91	YES	0.13145	0.00060
2 Total Tetra-Furans	24.37	6.196e2	8.139e2	0.76	NO	0.33695	0.33005
3 2,3,7,8-TCDF	25.37	6.120e2	8.411e2	0.73	NO	0.33456	0.33456



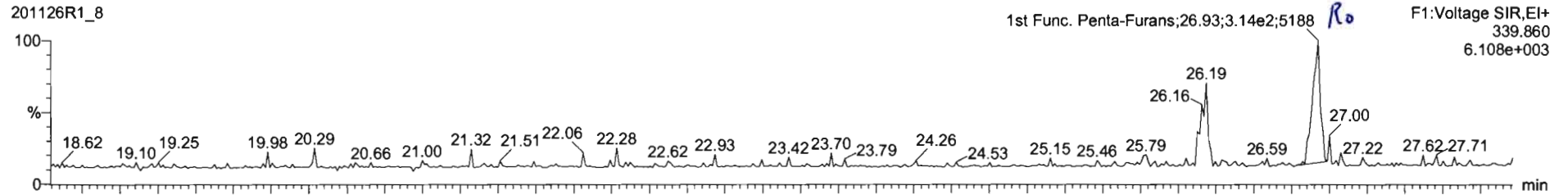
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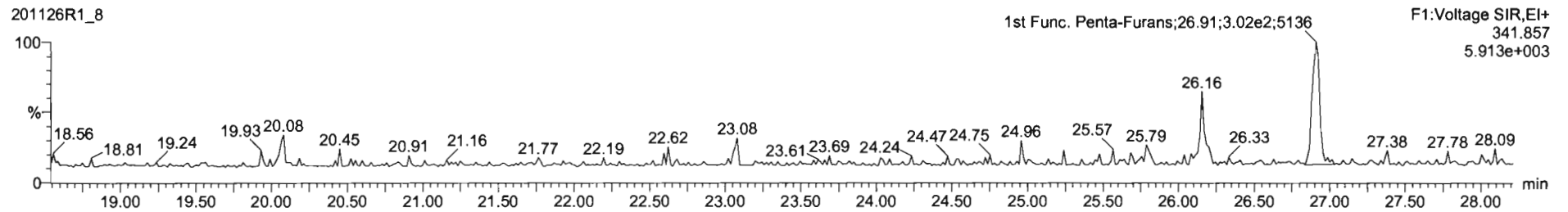
Name: 201126R1_8, Date: 26-Nov-2020, Time: 13:50:51, ID: 2002375-03 USMPDI-045SC-A-03-04-201030 11.52, Description: USMPDI-045SC-A-03-04-201030

1st Func. Penta-Furans

201126R1_8

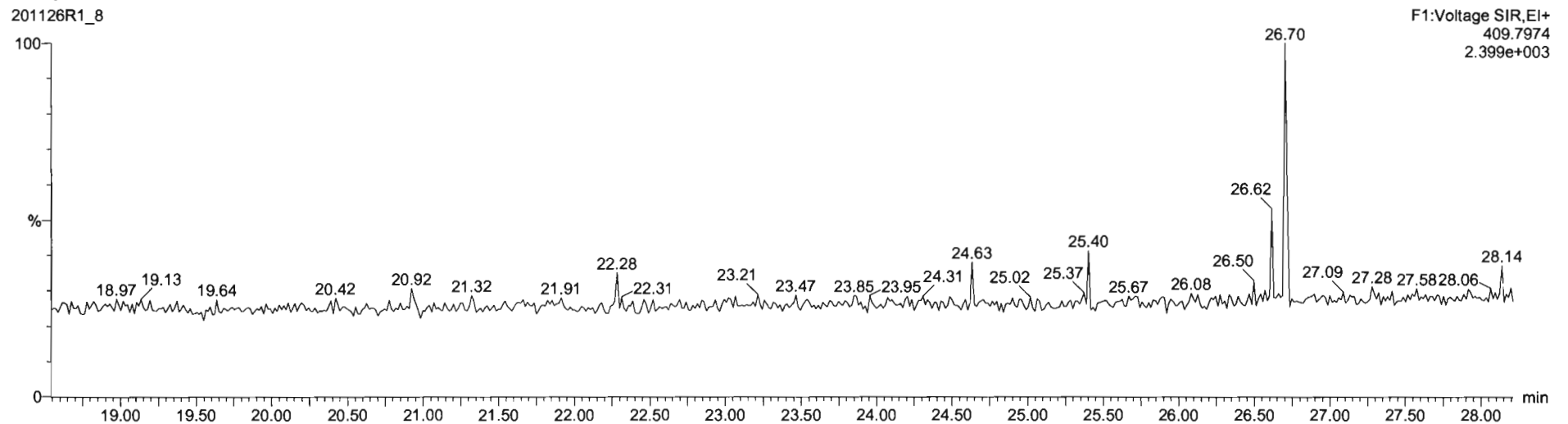


201126R1_8



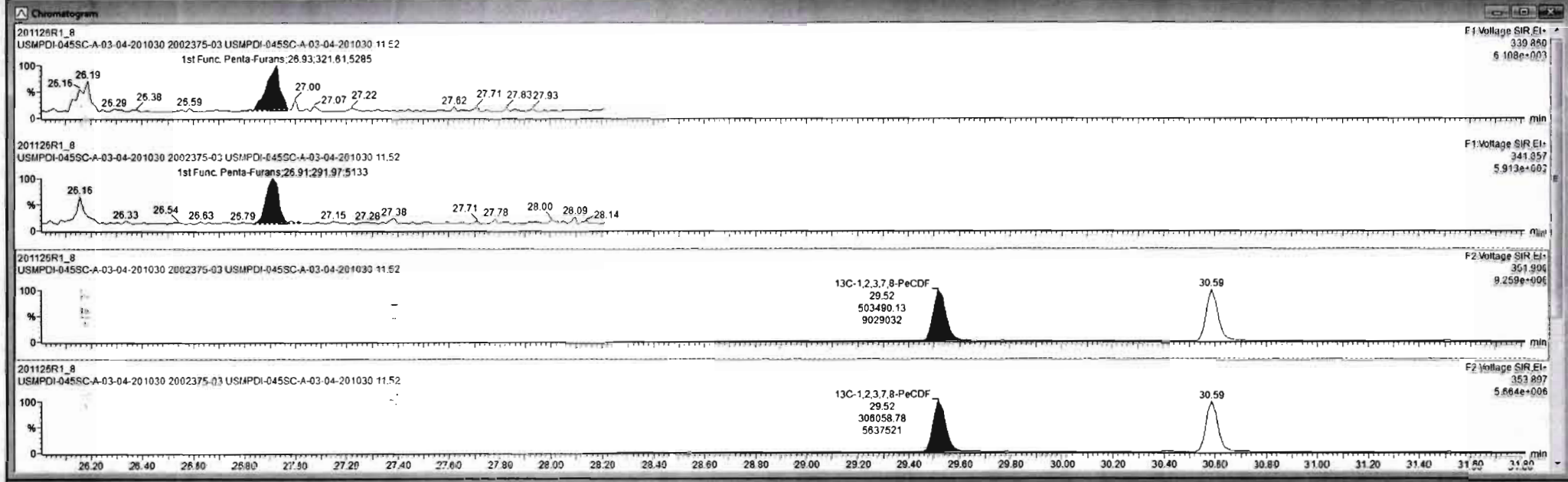
DPE6

201126R1_8



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.007			0.865	0.0459	0.655	
44 1st Func. Penta-Furans				0.9626	10.007			0.000	0.0100	0.139	
45 Total Penta-Furans				0.9626	10.007			0.898	0.0806	1.29	
46 Total Hexa-Furans				0.9907	10.007			0.811	0.0976	1.13	
47 Total Hepta-Furans				0.9986	10.007			1.87	0.0872	1.87	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1st Func. Penta-Furans	26.93	3.216e2	2.920e2	1.10	YES	0.13896	0.00000

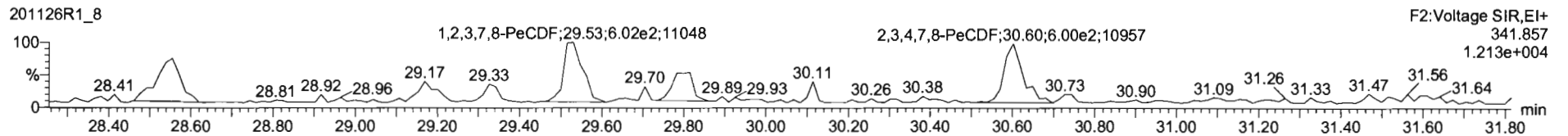
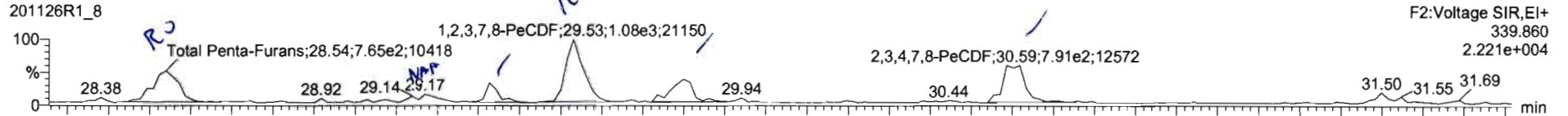


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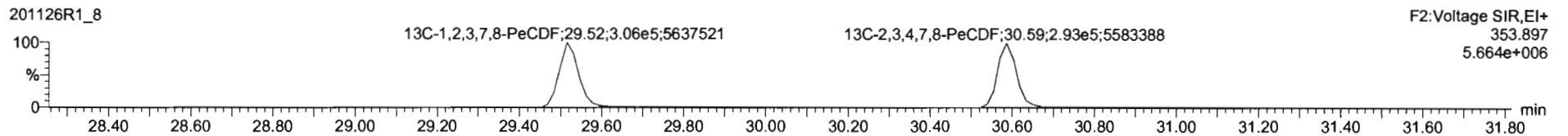
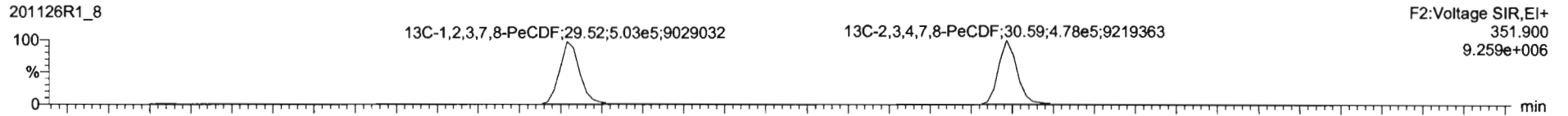
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Name: 201126R1_8, Date: 26-Nov-2020, Time: 13:50:51, ID: 2002375-03 USMPDI-045SC-A-03-04-201030 11.52, Description: USMPDI-045SC-A-03-04-201030

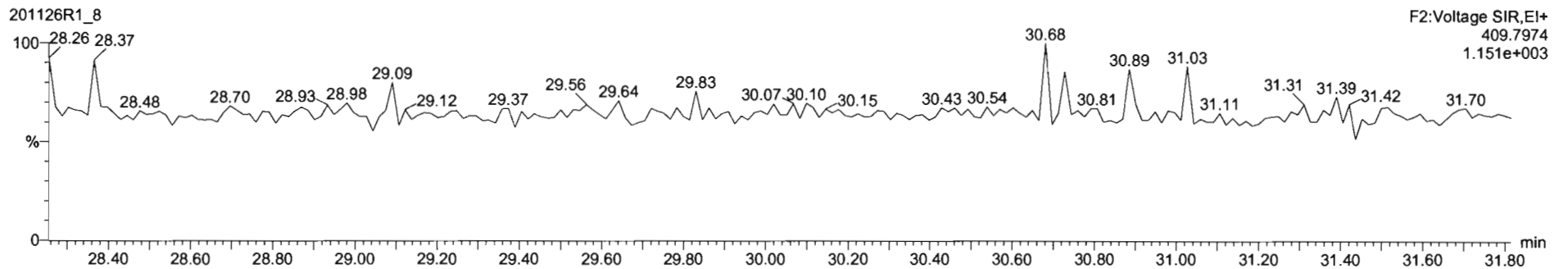
1,2,3,7,8-PeCDF



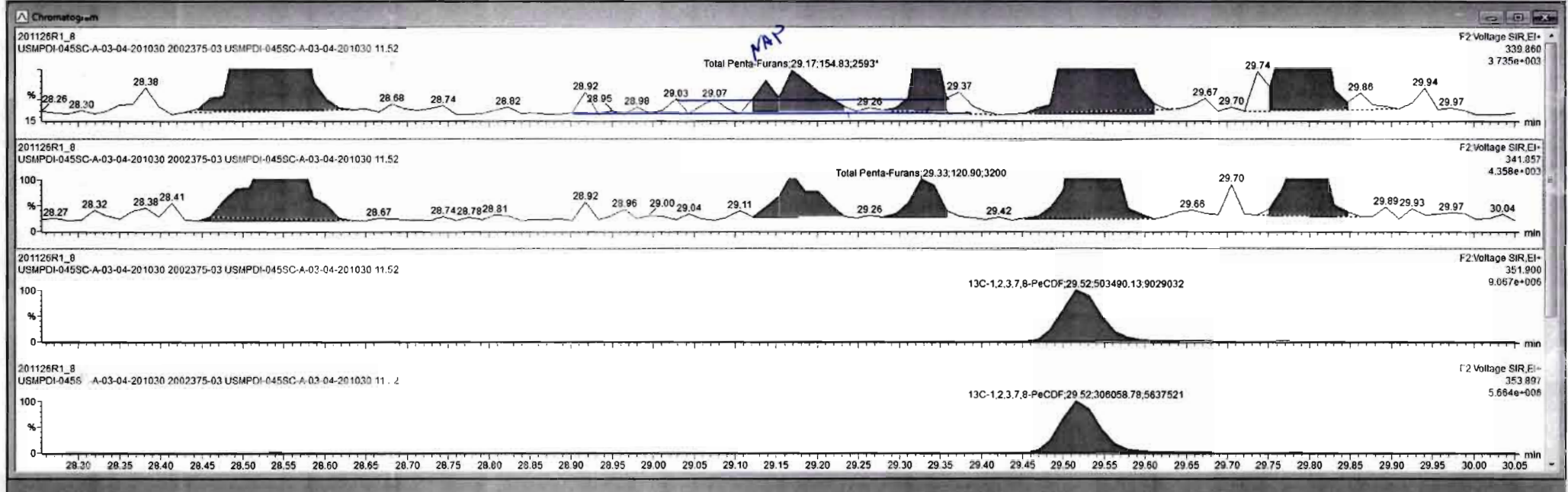
13C-1,2,3,7,8-PeCDF



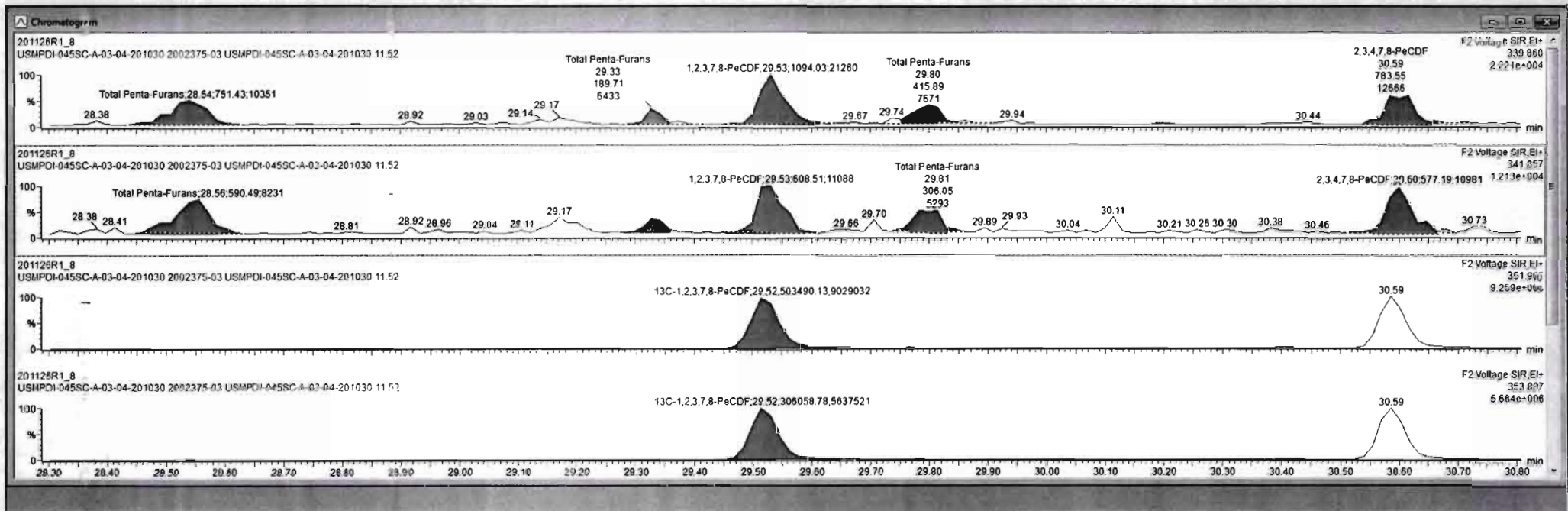
DPE2



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9626	10.007			0.000	0.0100	0.139	
45 Total Penta-Furans				0.9626	10.007			0.650	0.0606	1.37	
46 Total Hexa-Furans				0.9907	10.007			0.811	0.0976	1.13	
47 Total Hepta-Furans				0.9996	10.007			1.87	0.0872	1.67	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9826	10.007			0.000	0.9189	0.129	
45 Total Penta-Furans				0.9826	10.007			0.601	0.0606	1.32	
46 Total Hexa-Furans				0.9907	10.007			0.811	0.0978	1.13	
47 Total Hepta-Furans				0.9986	10.007			1.87	0.0872	1.87	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



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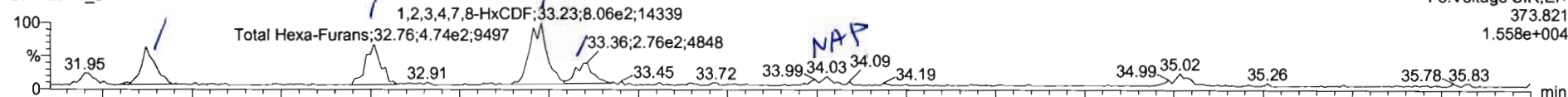
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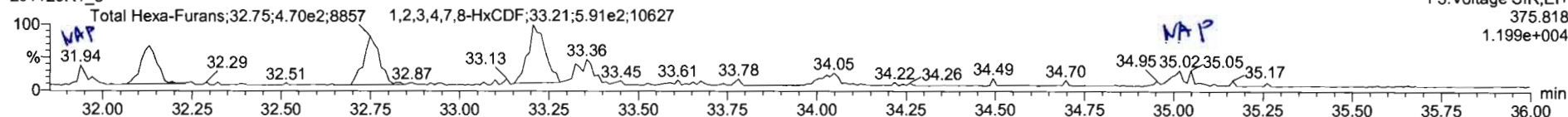
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1,2,3,4,7,8-HxCDF

201126R1_8

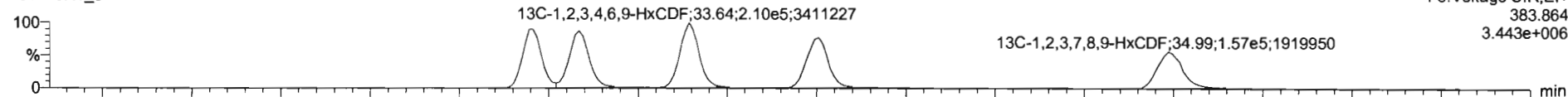


201126R1_8

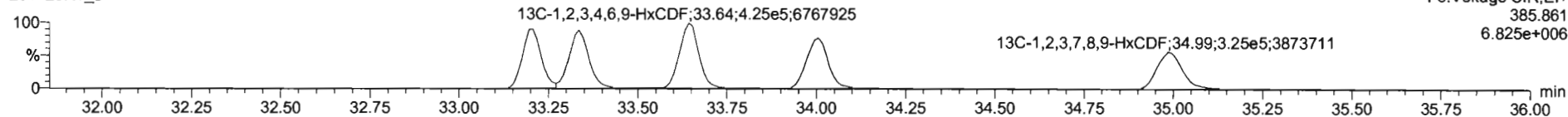


13C-1,2,3,4,7,8-HxCDF

201126R1_8

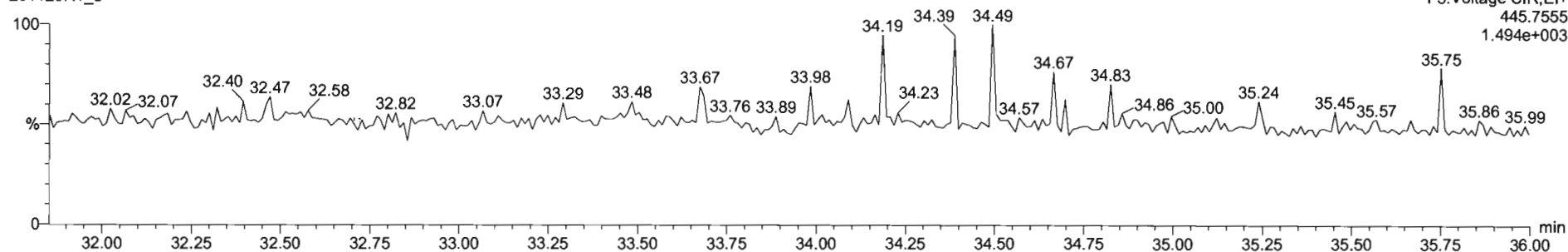


201126R1_8



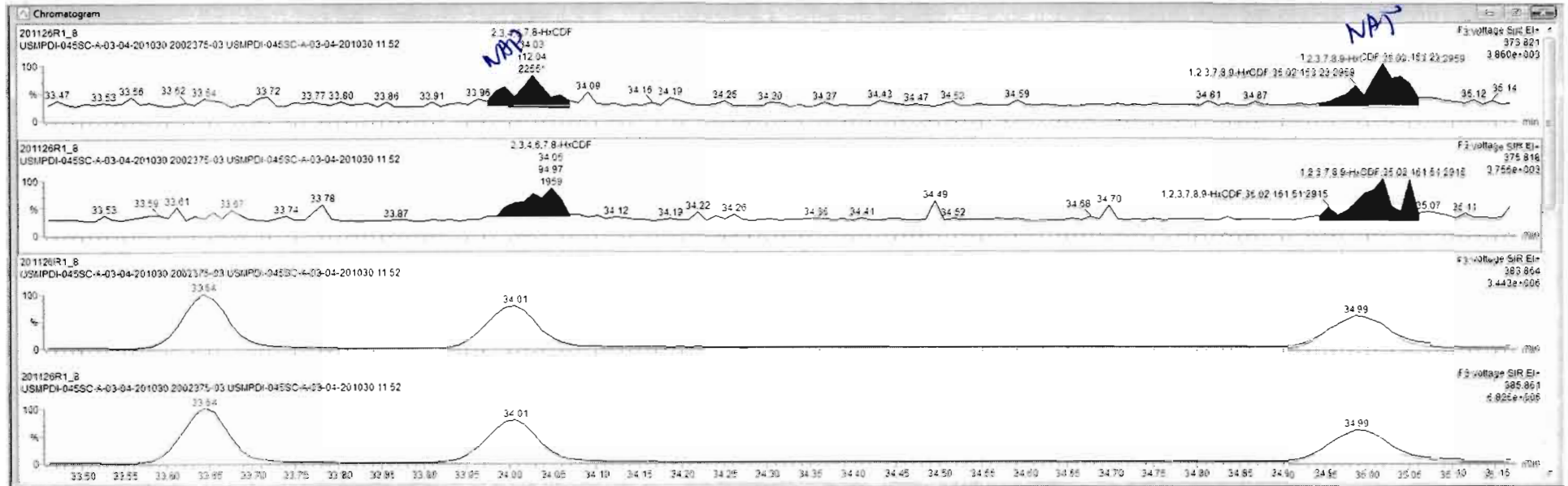
DPE3

201126R1_8

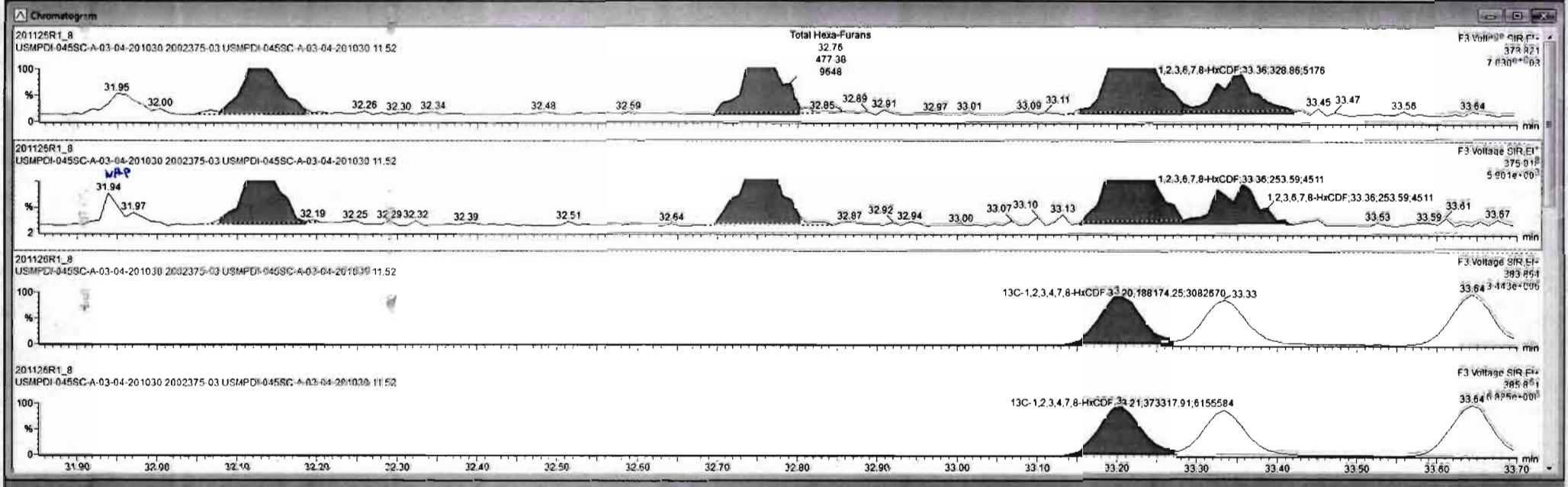


Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.007			0.864	0.6458	0.864	
44 1st Func. Penta-Furans				0.9626	10.007			0.000	0.8100	0.138	
45 Total Penta-Furans				0.9626	10.007			0.814	0.8000	1.34	
46 Total Hexa-Furans				0.9907	10.007			1.09	0.8976	1.53	
47 Total Hepta-Furans				0.8986	10.007			1.11	0.9872	1.80	

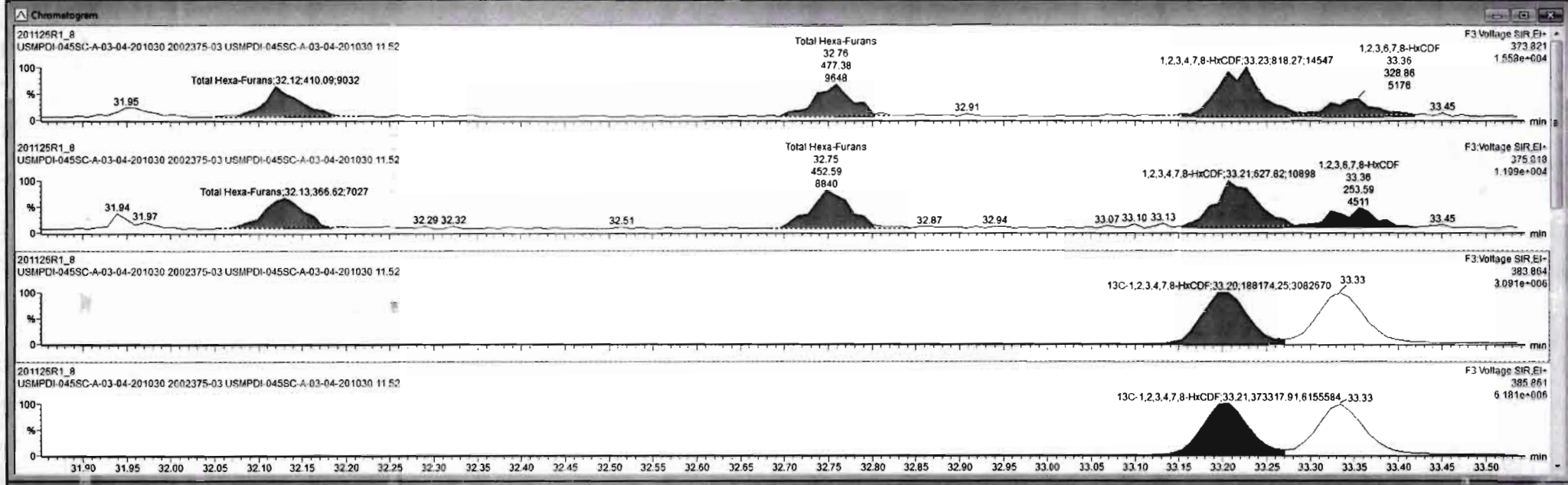
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.12	4.08442	2.77442	1.08	NO	0.29321	0.29321
2 Total Hepta-Furans	32.76	4.74242	4.80242	1.05	YES	0.31922	0.00000
3 1,2,3,4,7,8-HxCDF	33.23	5.13142	6.08642	1.34	NO	0.53088	0.53088
4 1,2,3,6,7,8-HxCDF	33.38	3.08642	2.33942	1.32	NO	0.18849	0.18849
5 2,3,4,6,7,8-HxCDF	34.03	1.18142	9.49741	1.22	NO	0.077384	0.077384
6 1,2,3,7,8-HxCDF	34.87	1.13042	1.81542	0.86	YES	0.17028	0.00000



Name	Resp	RA	aly	RRF	wt/wal	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9626	10.007			0.000	0.0100	0.139	
45 Total Penta-Furans				0.9626	10.007			0.601	0.0806	1.32	
46 Total Hexa-Furans				0.9907	10.007			1.38	0.0978	1.36	
47 Total Hepta-Furans				0.9986	10.007			1.87	0.0872	1.87	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



Name	Resp	RA	aly	RRF	wt/vol	R	RRT	Conc	%Rec	DL	EMPC
44 1st Func -ents-Furans				0.9626	10.007			0.000		0.0100	0.138
45 Total Penta-Furans				0.9626	10.007			0.601		0.0806	1.32
46 Total Hexa-Furans				0.9607	10.007			1.38		0.0978	1.38
47 Total Hepta-Furans				0.9986	10.007			1.87		0.0872	1.87
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											

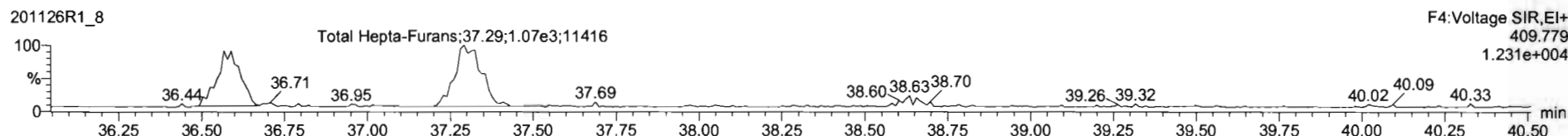
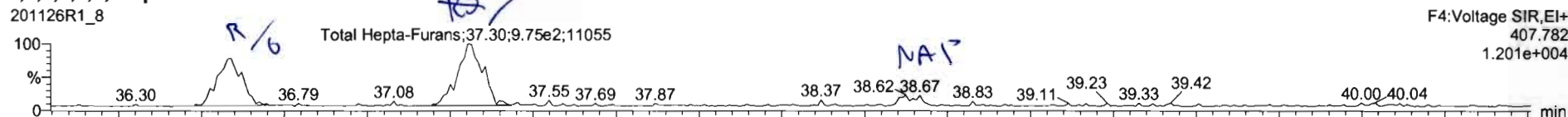


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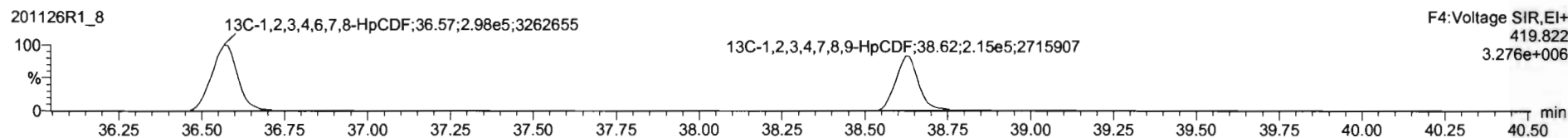
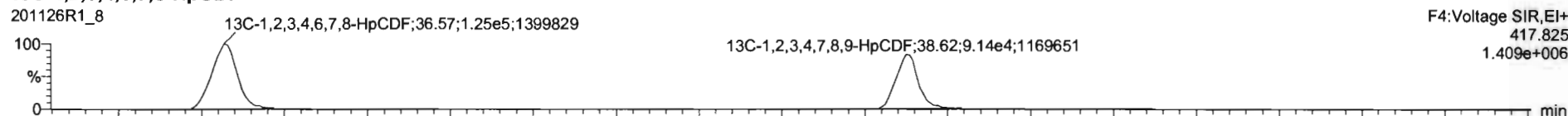
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Name: 201126R1_8, Date: 26-Nov-2020, Time: 13:50:51, ID: 2002375-03 USMPDI-045SC-A-03-04-201030 11.52, Description: USMPDI-045SC-A-03-04-201030

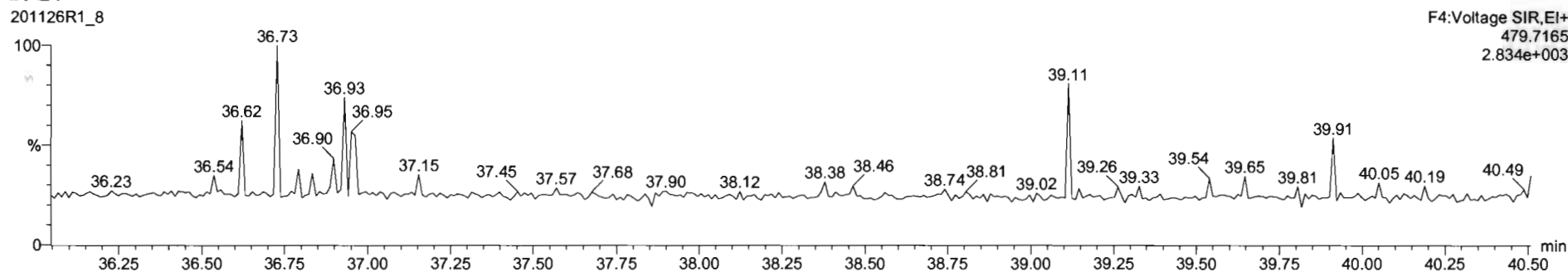
1,2,3,4,6,7,8-HpCDF



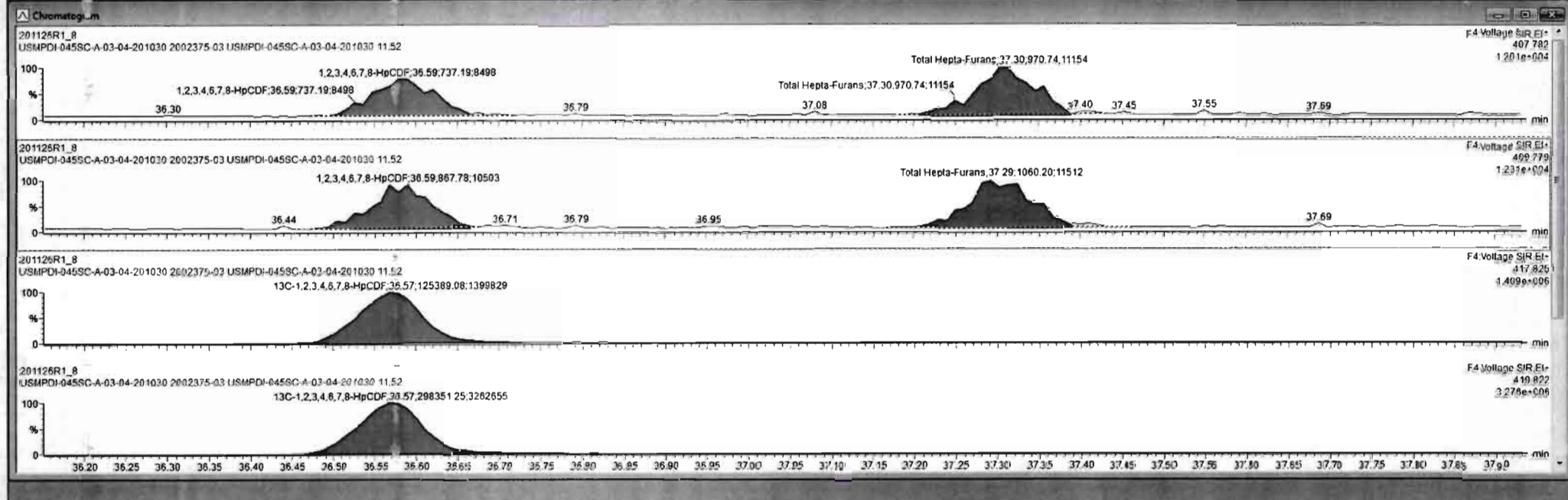
13C-1,2,3,4,6,7,8-HpCDF



DPE4



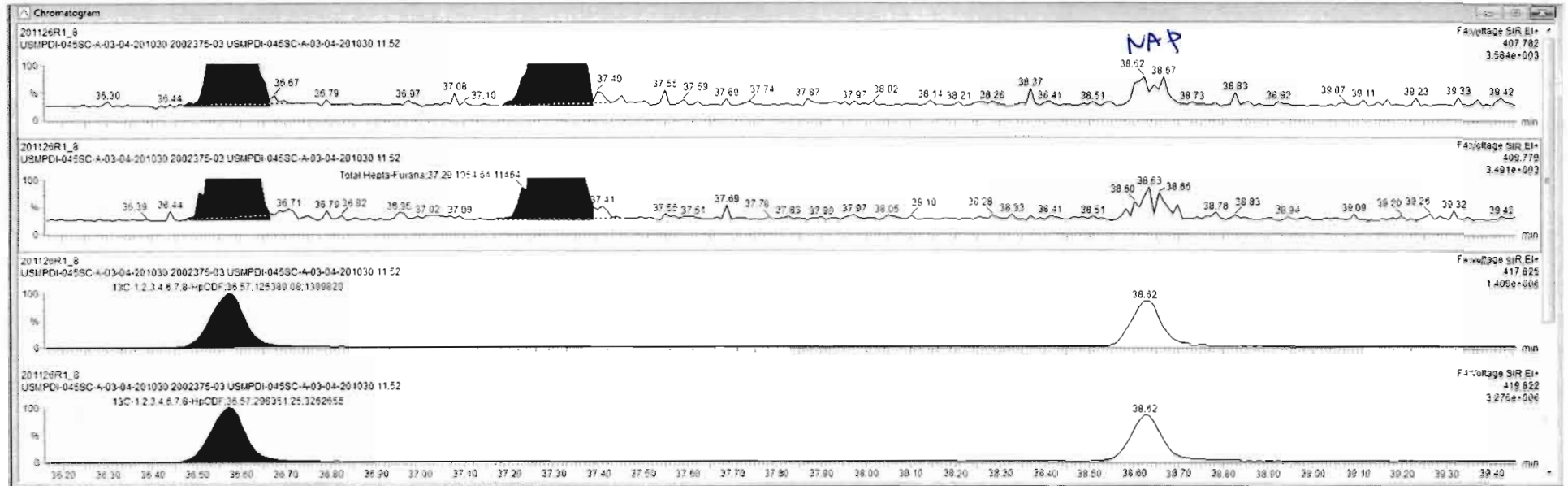
Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9626	10.007			0.000	0.0100	0.139	
45 Total Penta-Furans				0.9626	10.007			0.601	0.0806	1.32	
46 Total Hexo-Furans				0.9907	10.007			1.38	0.0976	1.38	
47 Total Hepta-Furans				0.9886	10.007			1.11	0.0872	1.80	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											
55 DPE3											
56 DPE4											
57 DPE5											
58 DPE6											



201126R1_8 - 2002375-03 USMPDI-045SC-A-03-04-201030 11:52 - USMPDI-045SC-A-03-04-201030

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans			0.6243	10.007			0.854		0.0459	0.654
44	1st Func. Penta-Furans			0.9626	10.007			2.000		0.0100	0.139
45	Total Penta-Furans			0.9626	10.007			2.814		0.0806	1.34
46	Total Hexa-Furans			0.9907	10.007			1.01		0.0978	1.33
47	Total Hepta-Furans			0.9968	10.007			1.11		0.0872	1.80
48	PK1										

Name	RT	mt Resp	m2 Resp	RA	nly	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.59	7.44662	0.88	YES	0.68984	0.00000
2	Total Hepta-Furans	37.30	9.73342	1.05542	NO	1.1112	1.1112

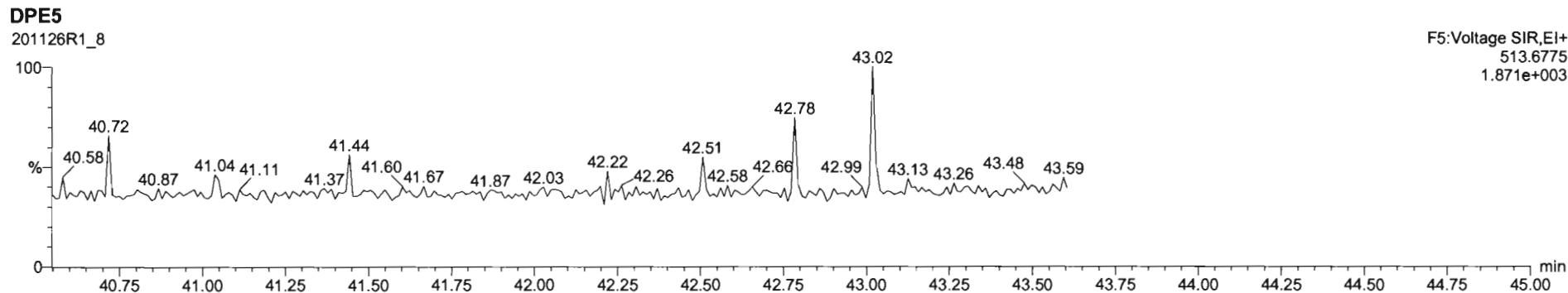
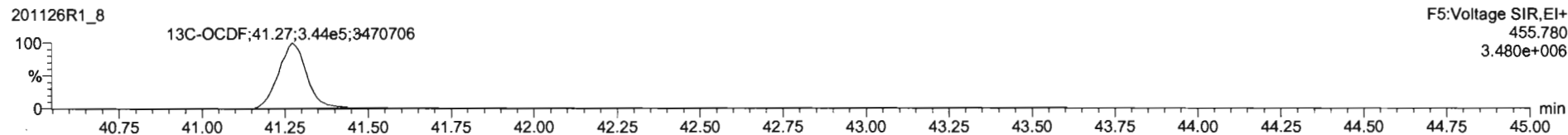
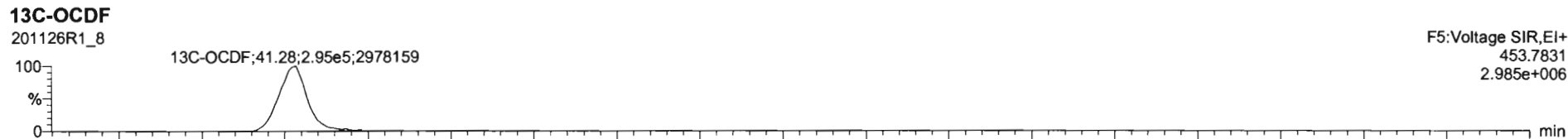
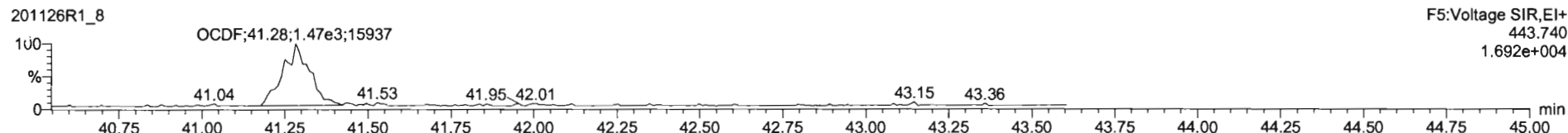
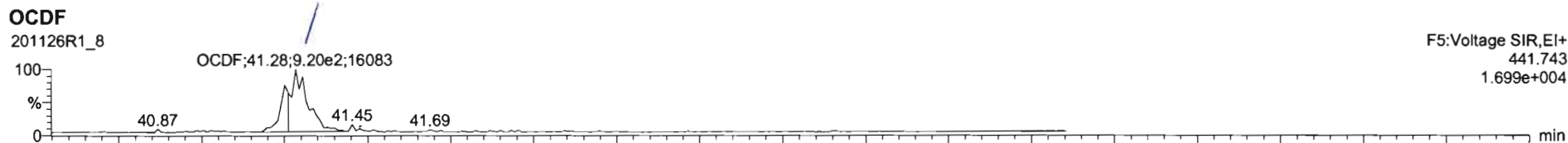


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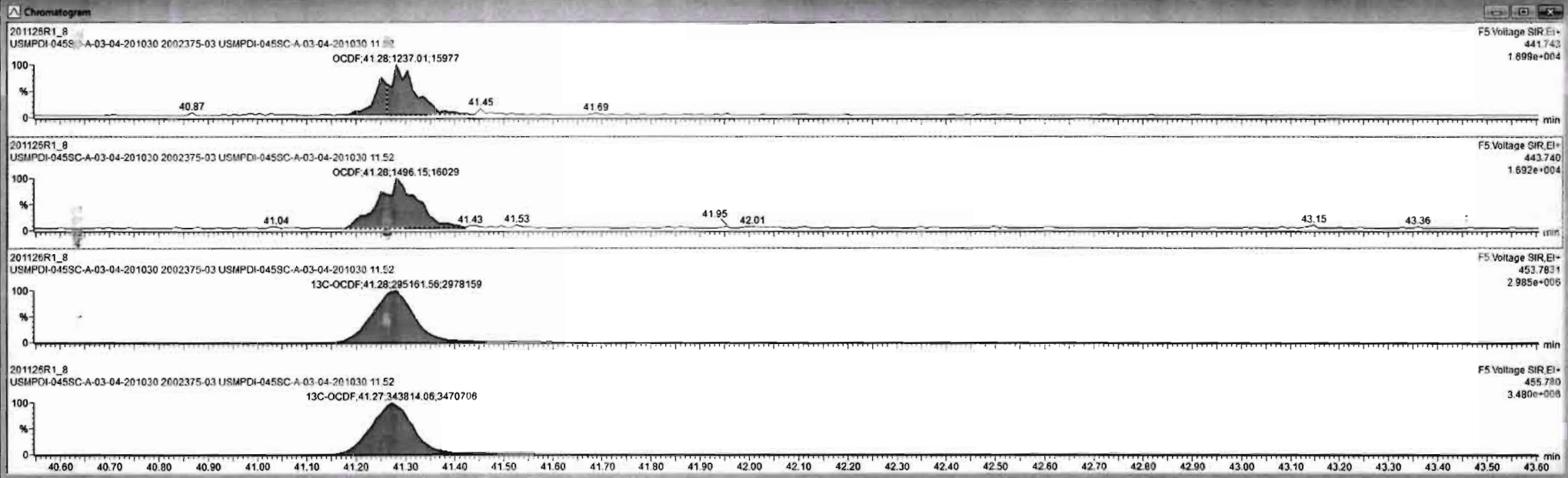
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Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	6.27e4	0.89	NO	0.8717	10.007	41.01	1.000	55.1	0.547	55.1
8	2,3,7,8-TCDF	1.45e3	0.73	NO	0.8243	10.007	25.37	1.001	0.335	0.0459	0.335
9	1,2,3,7,8-PeCDF	1.70e3	1.80	YES	0.9628	10.007	29.53	1.001	0.437	0.0816	0.396
10	2,3,4,7,8-PeCDF	1.36e3	1.36	NO	1.0684	10.007	30.59	1.000	0.330	0.0718	0.330
11	1,2,3,4,7,8-HxCDF	1.45e3	1.30	NO	0.9535	10.007	33.23	1.001	0.540	0.0865	0.540
12	1,2,3,6,7,8-HxCDF	5.62e2	1.30	NO	1.0080	10.007	33.28	1.001	0.202	0.0839	0.202
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.007				0.0967	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.007				0.135	
15	1,2,3,4,6,7,8-HpCDF	1.60e3	0.85	YES	0.9986	10.007	36.59	1.001	0.758	0.0803	0.683
16	1,2,3,4,7,8,9-HpCDF			NO	1.1238	10.007				0.0850	
17	OCDF	2.73e3	0.83	NO	0.8622	10.007	41.8	1.000	1.97	0.245	1.97
18	13C-2,3,7,8-TCDD	6.47e5	0.82	NO	1.1089	10.007	26.65	1.030	197	96.4	0.270
19	13C-1,2,3,7,8-PeCDD	4.07e5	0.65	NO	0.8585	10.007	30.77	1.217	160	79.9	0.372
20	13C-1,2,3,4,7,8-HxCDD	4.04e5	1.31	NO	0.8997	10.007	34.1	1.014	182	91.0	0.807
21	13C-1,2,3,6,7,8-HxCDD	4.62e5	1.32	NO	0.8327	10.007	34.23	1.017	175	87.3	0.878
22	13C-1,2,3,7,8,9-HxCDD	4.42e5	1.22	NO	0.7818	10.007	34.49	1.025	183	91.4	0.742

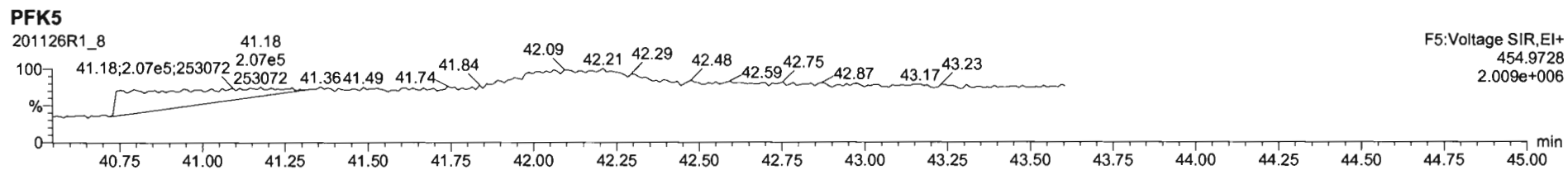
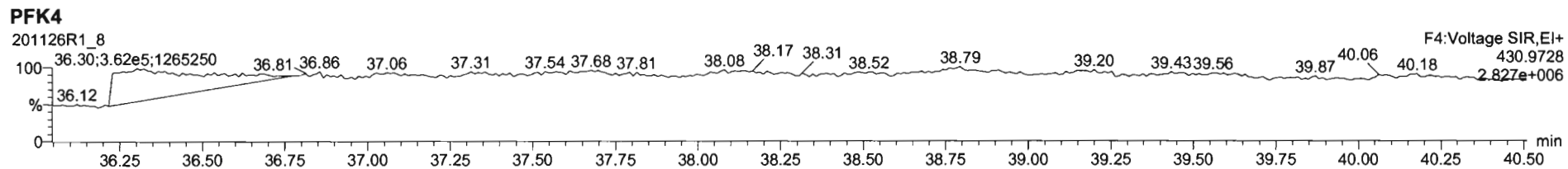
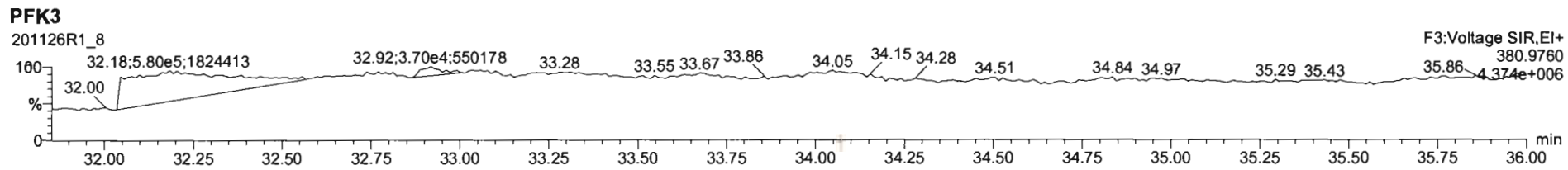
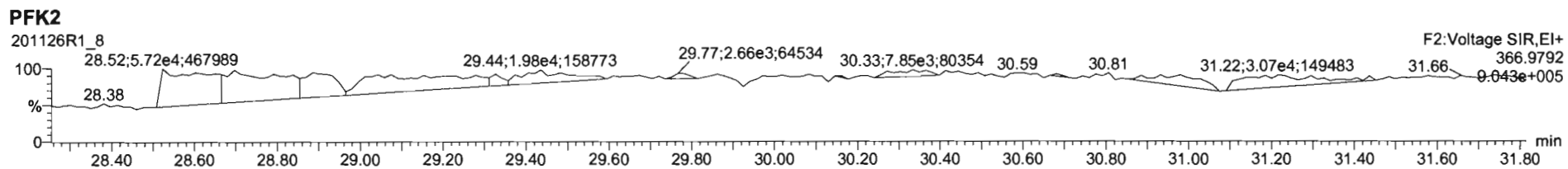
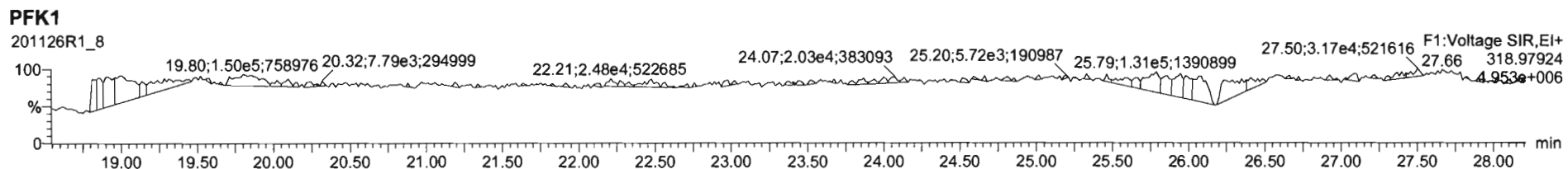


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Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time

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Name: 201126R1_8, Date: 26-Nov-2020, Time: 13:50:51, ID: 2002375-03 USMPDI-045SC-A-03-04-201030 11.52, Description: USMPDI-045SC-A-03-04-201030



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HN 12/03/2020

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CT 12/09/2020

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.055	26.082		1.001				0.0754	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.055	30.800		1.000				0.148	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.055	34.133		1.000				0.124	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.055	34.250		1.000				0.125	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.055	34.516		1.000				0.130	
6	6 1,2,3,4,6,7,8-HpCDD	2.86e3	1.03	NO	0.870	10.055	38.006	38.02	1.000	1.000	2.2328		0.370	2.23
7	7 OCDD	3.13e4	0.89	NO	0.872	10.055	40.953	40.96	1.000	1.000	31.215		0.504	31.2
8	8 2,3,7,8-TCDF	3.46e2	0.86	NO	0.824	10.055	25.366	25.37	1.000	1.001	0.12666		0.0540	0.127
9	9 1,2,3,7,8-PeCDF	5.47e2	2.13	YES	0.963	10.055	29.540	29.53	1.000	1.000	0.17076		0.0270	0.146
10	10 2,3,4,7,8-PeCDF	3.88e2	2.28	YES	1.07	10.055	30.587	30.59	1.000	1.000	0.11873		0.0244	0.0922
11	11 1,2,3,4,7,8-HxCDF	4.90e2	1.40	NO	0.953	10.055	33.206	33.22	1.000	1.000	0.23204		0.0275	0.232
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.055	33.345		1.000				0.0537	
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.055	34.019		1.000				0.0600	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.055	34.996		1.000				0.0961	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.999	10.055	36.593		1.000				0.0981	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.055	38.645		1.000				0.105	
17	17 OCDF			NO	0.868	10.055	41.249		1.000				0.105	
18	18 13C-2,3,7,8-TCDD	4.33e5	0.82	NO	1.11	10.055	26.043	26.05	1.030	1.030	135.97	68.4	0.262	
19	19 13C-1,2,3,7,8-PeCDD	3.35e5	0.66	NO	0.859	10.055	30.756	30.79	1.216	1.218	135.95	68.4	0.346	
20	20 13C-1,2,3,4,7,8-HxCDD	3.17e5	1.31	NO	0.700	10.055	34.121	34.12	1.014	1.014	152.29	76.6	0.527	
21	21 13C-1,2,3,6,7,8-HxCDD	3.72e5	1.30	NO	0.833	10.055	34.259	34.24	1.018	1.017	149.94	75.4	0.443	
22	22 13C-1,2,3,7,8,9-HxCDD	3.68e5	1.29	NO	0.762	10.055	34.502	34.51	1.025	1.025	162.12	81.5	0.484	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.93e5	1.09	NO	0.650	10.055	37.985	38.01	1.129	1.129	151.47	76.2	0.823	
24	24 13C-OCDD	4.58e5	0.90	NO	0.539	10.055	40.950	40.95	1.217	1.217	284.99	71.6	0.919	
25	25 13C-2,3,7,8-TCDF	6.59e5	0.79	NO	0.981	10.055	25.366	25.36	1.003	1.003	120.48	60.6	0.380	
26	26 13C-1,2,3,7,8-PeCDF	6.32e5	1.63	NO	0.792	10.055	29.490	29.53	1.166	1.168	143.24	72.0	0.500	
27	27 13C-2,3,4,7,8-PeCDF	6.09e5	1.62	NO	0.778	10.055	30.546	30.59	1.208	1.210	140.46	70.6	0.509	
28	28 13C-1,2,3,4,7,8-HxCDF	4.41e5	0.50	NO	0.954	10.055	33.213	33.21	0.987	0.987	155.32	78.1	0.671	
29	29 13C-1,2,3,6,7,8-HxCDF	4.68e5	0.52	NO	1.01	10.055	33.344	33.34	0.991	0.991	156.44	78.6	0.636	
30	30 13C-2,3,4,6,7,8-HxCDF	4.45e5	0.50	NO	0.921	10.055	34.014	34.02	1.011	1.011	162.33	81.6	0.695	
31	31 13C-1,2,3,7,8,9-HxCDF	3.72e5	0.49	NO	0.803	10.055	35.010	35.00	1.040	1.040	155.71	78.3	0.796	

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-9.qld

Last Altered: Thursday, December 03, 2020 11:16:43 AM Pacific Standard Time
Printed: Thursday, December 03, 2020 11:18:42 AM Pacific Standard Time

Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

#	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	3.35e5	0.41	NO	0.735	10.055	36.578	36.59	1.087	1.087	152.97	76.9	0.776	
33	13C-1,2,3,4,7,8,9-HpCDF	2.47e5	0.42	NO	0.568	10.055	38.614	38.65	1.147	1.148	146.12	73.5	1.01	
34	13C-OCDF	5.28e5	0.86	NO	0.629	10.055	41.232	41.24	1.225	1.225	281.74	70.8	0.834	
35	37Cl-2,3,7,8-TCDD	2.09e5			1.09	10.055	26.043	26.07	1.030	1.031	66.722	83.9	0.0894	
36	13C-1,2,3,4-TCDD	5.72e5	0.83	NO	1.00	10.055	25.370	25.28	1.000	1.000	198.91	100	0.290	
37	13C-1,2,3,4-TCDF	1.11e6	0.79	NO	1.00	10.055	23.870	23.78	1.000	1.000	198.91	100	0.373	
38	13C-1,2,3,4,6,9-HxCDF	5.92e5	0.51	NO	1.00	10.055	33.710	33.65	1.000	1.000	198.91	100	0.640	
39	Total Tetra-Dioxins				0.950	10.055	24.620		0.000				0.0417	
40	Total Penta-Dioxins				0.885	10.055	29.960		0.000				0.0653	
41	Total Hexa-Dioxins				0.915	10.055	33.635		0.000		0.84473		0.132	0.845
42	Total Hepta-Dioxins				0.870	10.055	37.640		0.000		5.7190		0.370	5.72
43	Total Tetra-Furans				0.824	10.055	23.610		0.000		0.12666		0.0540	0.235
44	1st Func. Penta-Furans				0.963	10.055	26.930		0.000		0.00000		0.00832	0.0834
45	Total Penta-Furans				0.963	10.055	29.275		0.000		0.098373		0.0271	0.367
46	Total Hexa-Furans				0.991	10.055	33.555		0.000		0.57405		0.0326	0.574
47	Total Hepta-Furans				0.999	10.055	37.835		0.000				0.0418	
48	PFK1													

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-9.qld

Last Altered: Thursday, December 03, 2020 11:16:43 AM Pacific Standard Time

Printed: Thursday, December 03, 2020 11:18:42 AM Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

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	Total Hexa-Dioxins	32.49	1.657e4	1.162e4	7.720e2	5.957e2	1.30	NO	1.368e3	0.84473	0.84473	0.132

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.99	2.133e4	2.102e4	2.280e3	2.184e3	1.04	NO	4.464e3	3.4862	3.4862	0.370
2	1,2,3,4,6,7,8-HpCDD	38.02	1.614e4	1.730e4	1.448e3	1.411e3	1.03	NO	2.859e3	2.2328	2.2328	0.370

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.38	2.338e3	2.806e3	1.286e2	2.157e2	0.60	YES	0.000e0	0.00000	0.10817	0.0239
2	2,3,7,8-TCDF	25.37	3.826e3	3.459e3	1.603e2	1.857e2	0.86	NO	3.460e2	0.12666	0.12666	0.0540

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	26.91	2.806e3	1.672e3	1.792e2	9.818e1	1.83	YES	0.000e0	0.00000	0.083350	0.00832

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-9.qld

Last Altered: Thursday, December 03, 2020 11:16:43 AM Pacific Standard Time

Printed: Thursday, December 03, 2020 11:18:42 AM Pacific Standard Time

Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.56	3.453e3	2.327e3	1.770e2	1.185e2	1.49	NO	2.955e2	0.098373	0.098373	0.0271
2	1,2,3,7,8-PeCDF	29.53	7.904e3	4.295e3	3.720e2	1.750e2	2.13	YES	5.470e2	0.00000	0.14581	0.0270
3	Total Penta-Furans	29.80	2.080e3	3.596e3	5.571e1	1.052e2	0.53	YES	0.000e0	0.00000	0.030514	0.0271
4	2,3,4,7,8-PeCDF	30.59	4.258e3	3.170e3	2.701e2	1.183e2	2.28	YES	3.884e2	0.00000	0.092246	0.0244

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.14	3.984e3	3.531e3	1.862e2	1.608e2	1.16	NO	3.470e2	0.16141	0.16141	0.0326
2	Total Hexa-Furans	32.76	5.626e3	2.966e3	2.171e2	1.711e2	1.27	NO	3.883e2	0.18059	0.18059	0.0326
3	1,2,3,4,7,8-HxCDF	33.22	4.970e3	3.164e3	2.862e2	2.042e2	1.40	NO	4.904e2	0.23204	0.23204	0.0275

Hepta-Furans

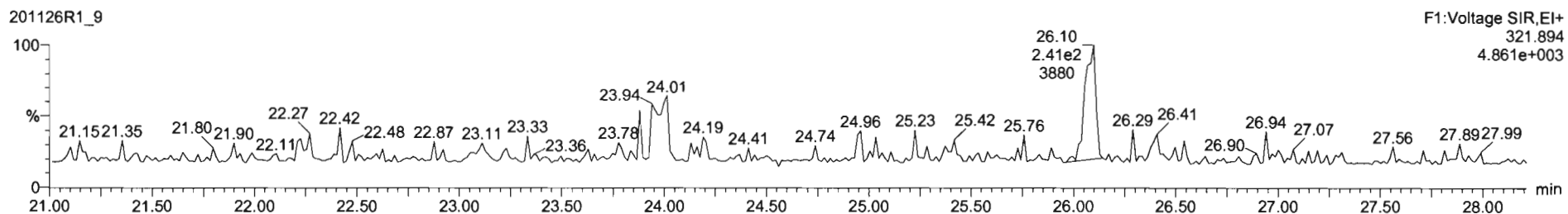
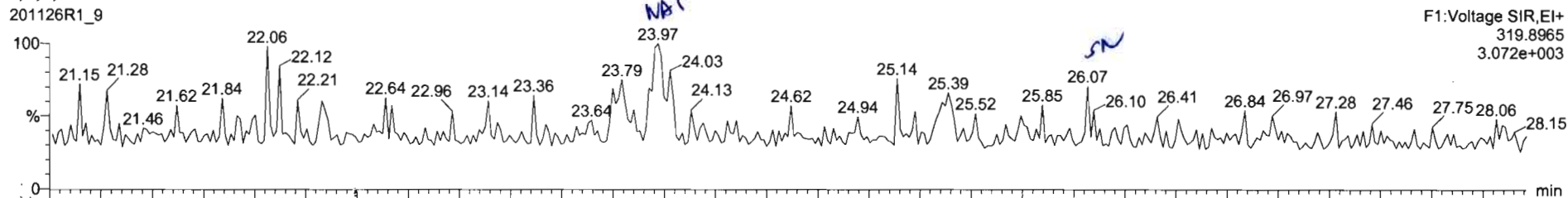
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1												

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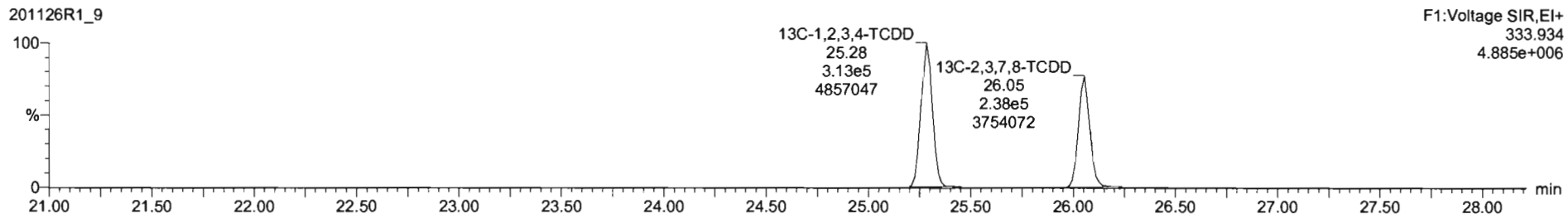
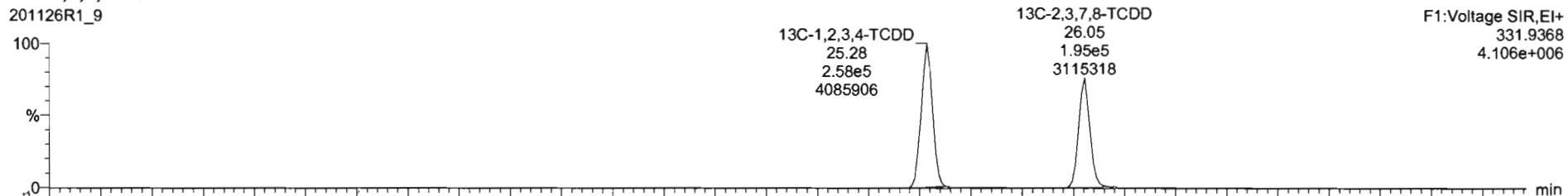
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Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

2,3,7,8-TCDD



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



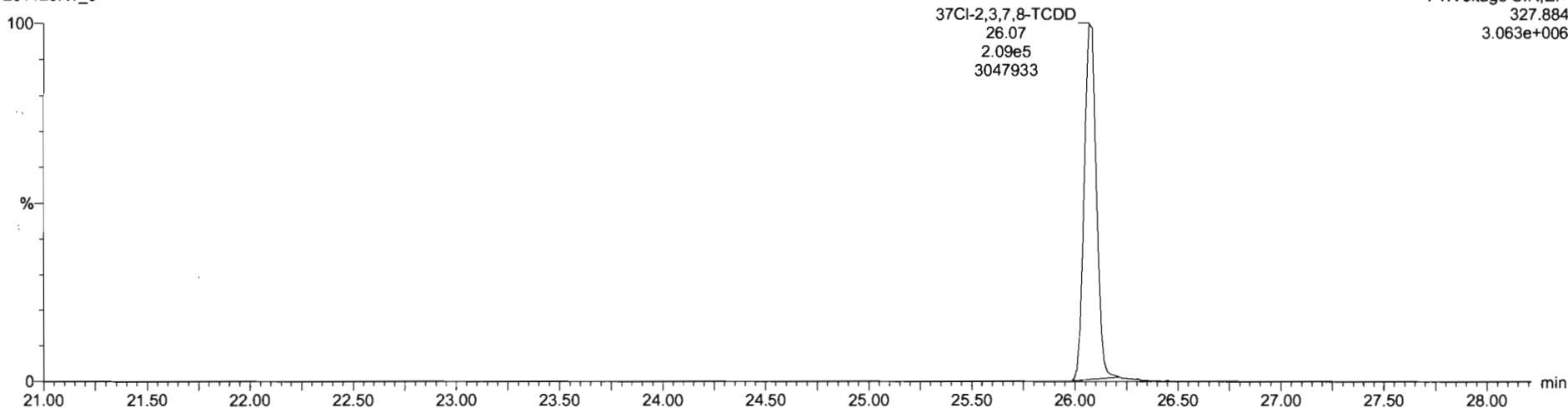
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Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

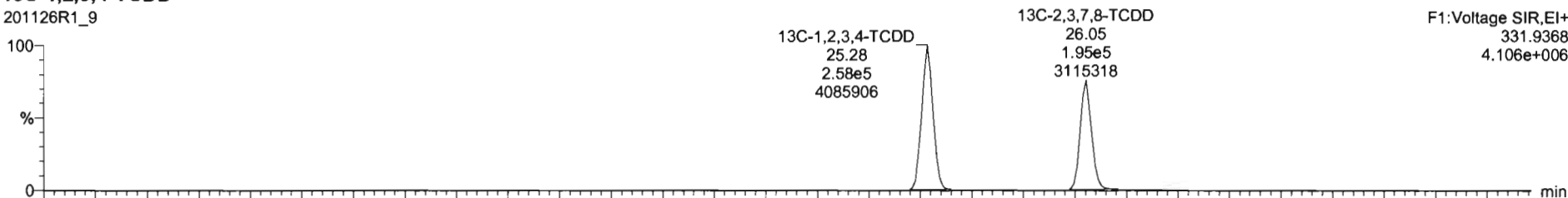
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201126R1_9

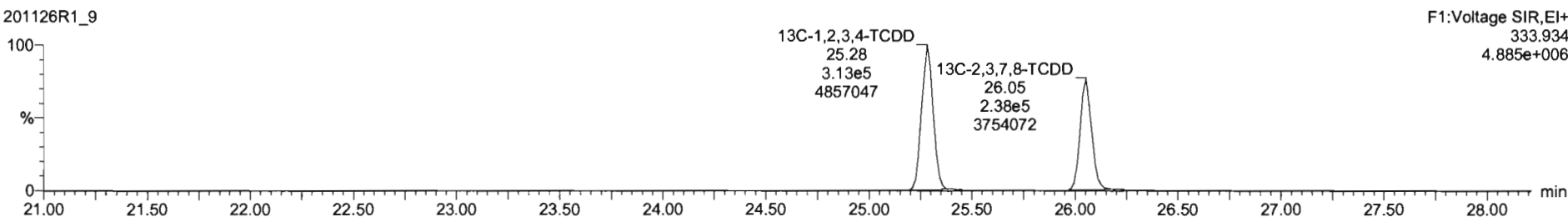


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201126R1_9



201126R1_9



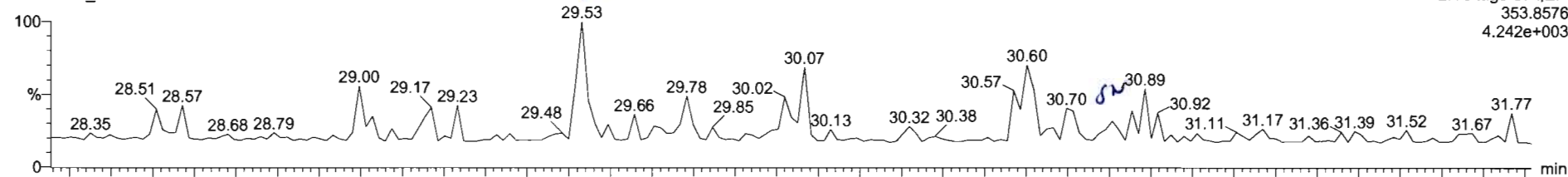
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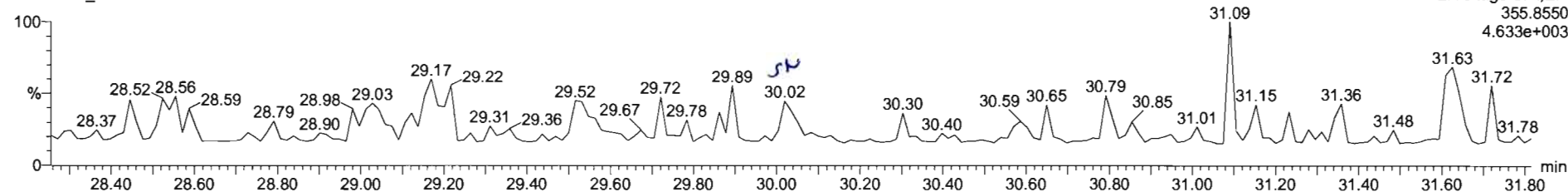
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1,2,3,7,8-PeCDD

201126R1_9

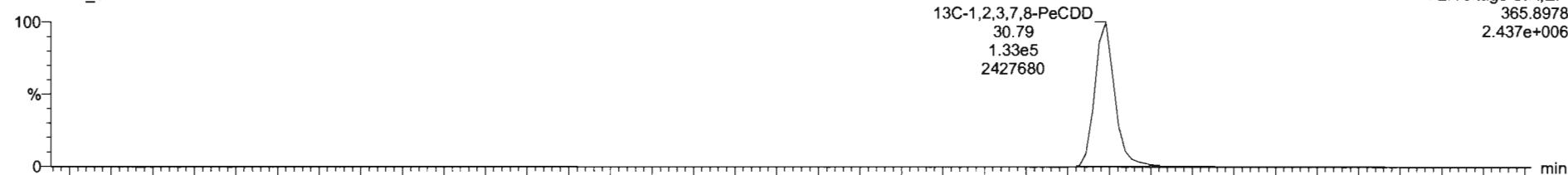


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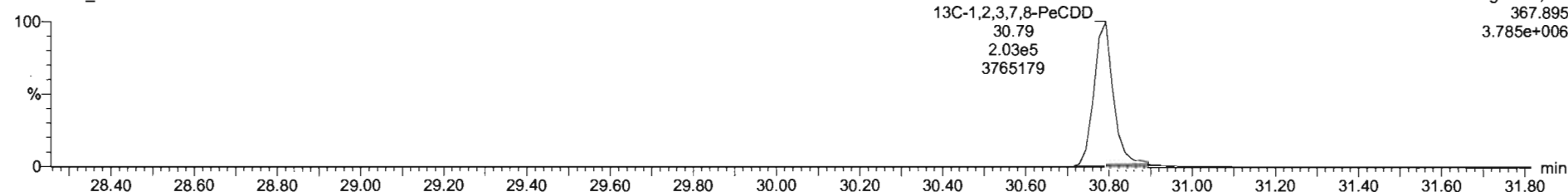


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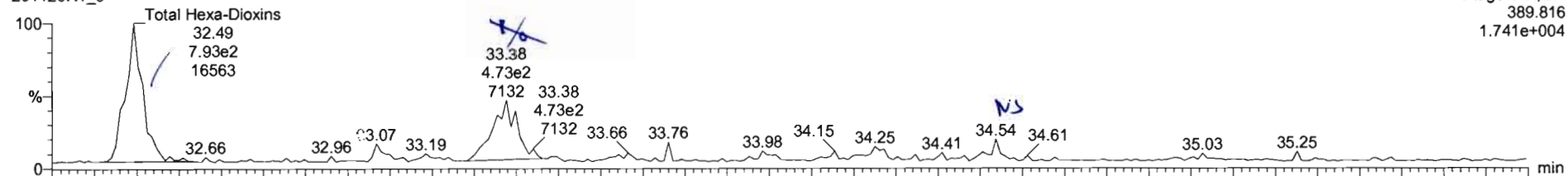
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1,2,3,4,7,8-HxCDD

HN 12/2/2020

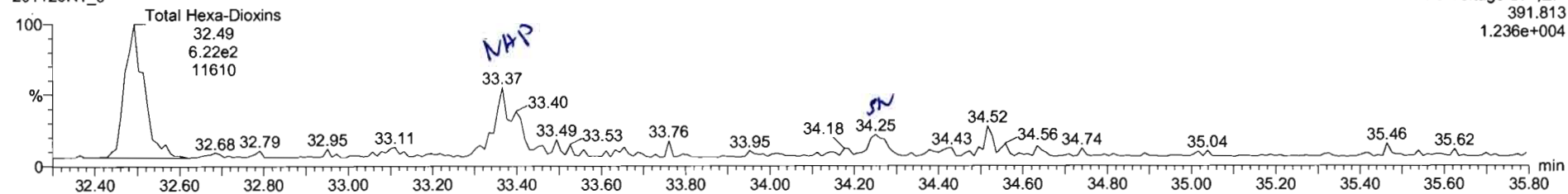
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1.741e+004



201126R1_9

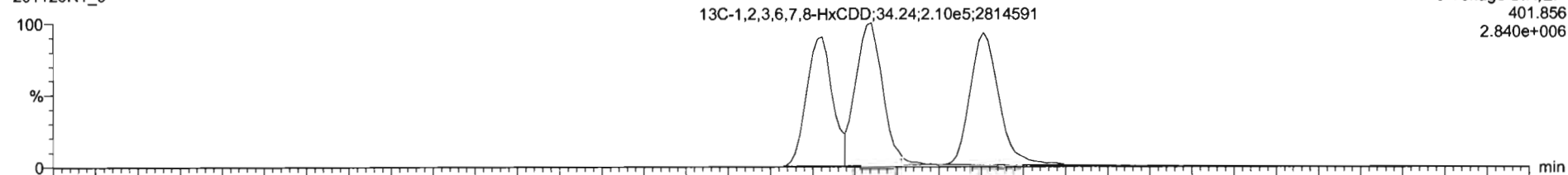
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1.236e+004



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

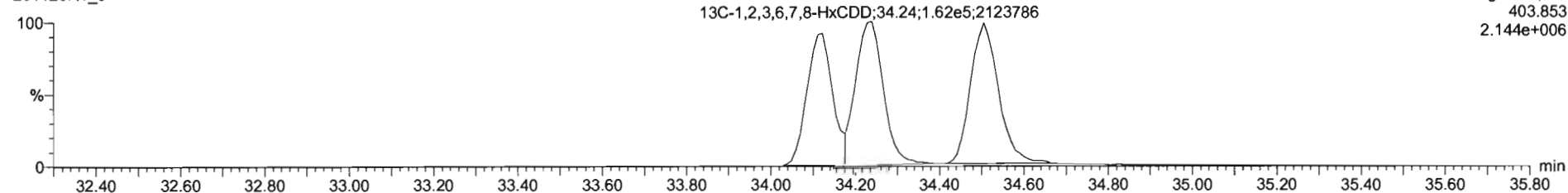
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F3:Voltage SIR,EI+
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2.840e+006



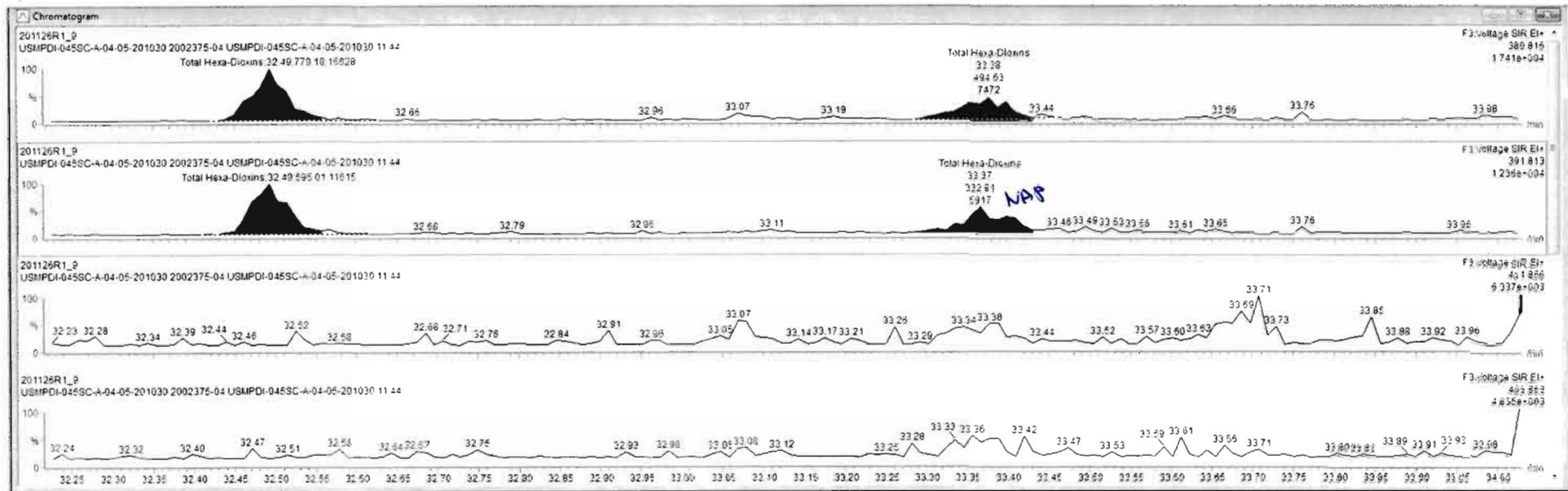
201126R1_9

F3:Voltage SIR,EI+
403.853
2.144e+006



#I	Name	Resp	RA	n/y	RRF	advol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.955					0.0417	
40	Total Penta-Dioxins				0.8855	10.955					0.0853	
41	Total Hexa-Dioxins				0.9145	10.955			0.849	0.132	1.31	
42	Total Hepta-Dioxins				0.8697	10.955			5.70	0.270	5.70	
43	Total Tetra-Furans				0.8243	10.955				0.0239		
44	1st Func. Penta-Furans				0.9628	10.955				0.00832		
45	Total Penta-Furans				0.9628	10.955				0.0271		

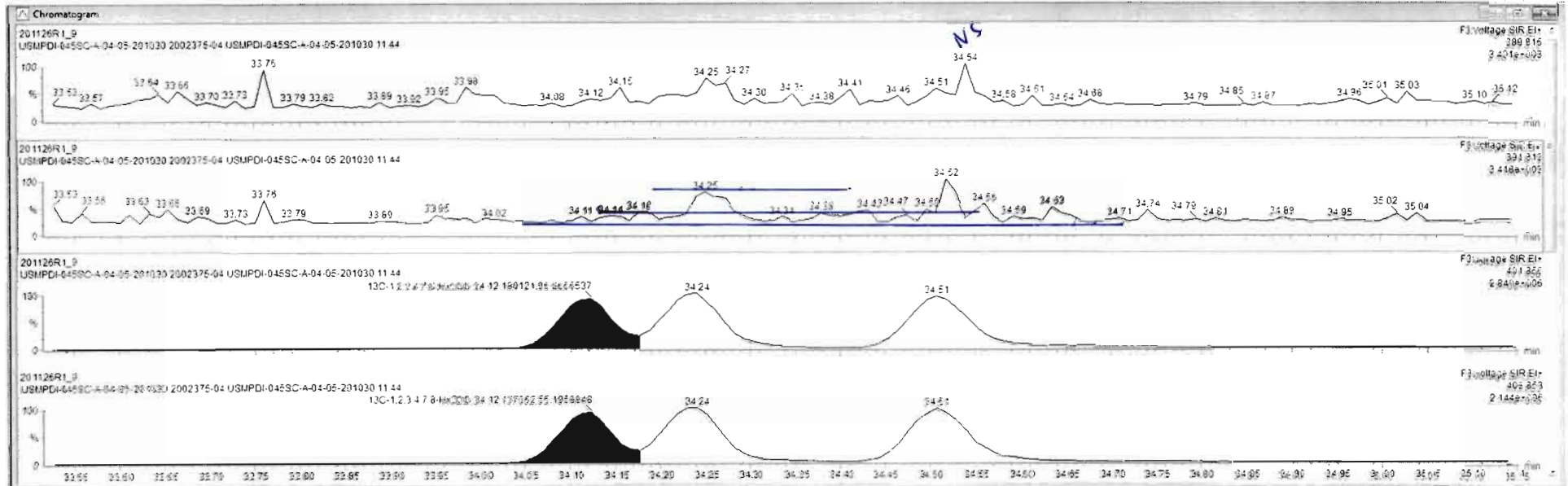
#I	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.49	7.792e2	5.950e2	1.31	NO	0.84879	0.84879
2	Total Hexa-Dioxins	33.38	4.948e2	3.329e2	1.48	YES	0.45090	0.00000



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#	Name	Resp	RA	n/y	RRF	w%vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9501	10.055					0.0417	
40	Total Penta-Dioxins				0.8855	10.055					0.0653	
41	Total Hexa-Dioxins				0.8145	10.055			0.849		0.132	0.849
42	Total Hepta-Dioxins				0.8667	10.055			5.73		0.370	6.73
43	Total Tetra-Furans				0.8243	10.055					0.0239	
44	1st Func. Penta-Furans				0.9628	10.055					0.06832	
45	Total Penta-Furans				0.9628	10.055					0.0271	

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.49	7.792e2	5.950e2	1.31	NO	0.84879	0.64879



Ready

201126R1_9

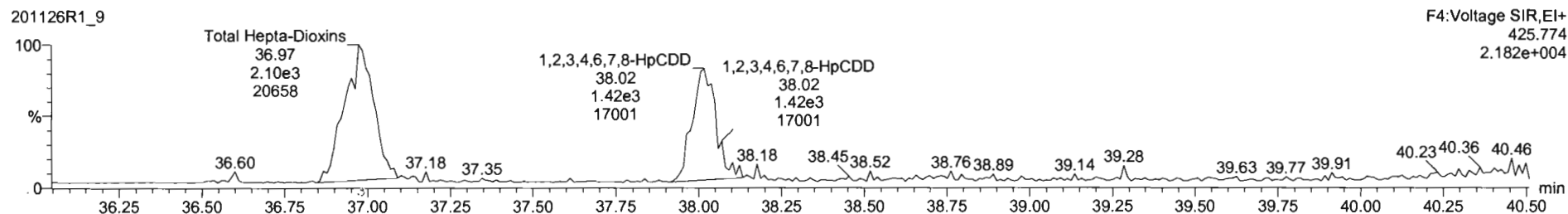
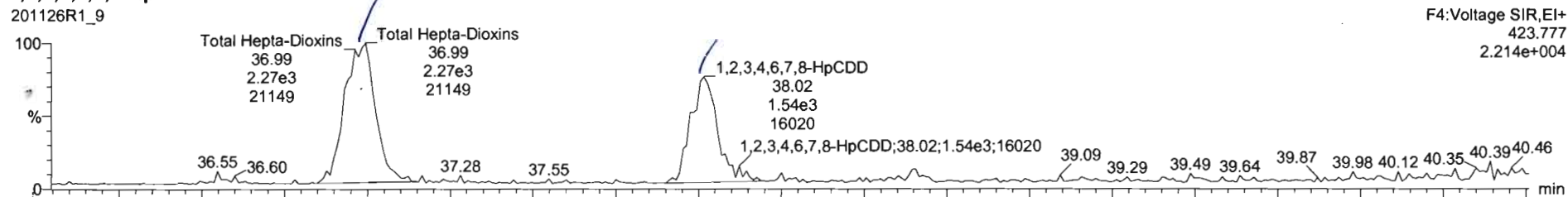
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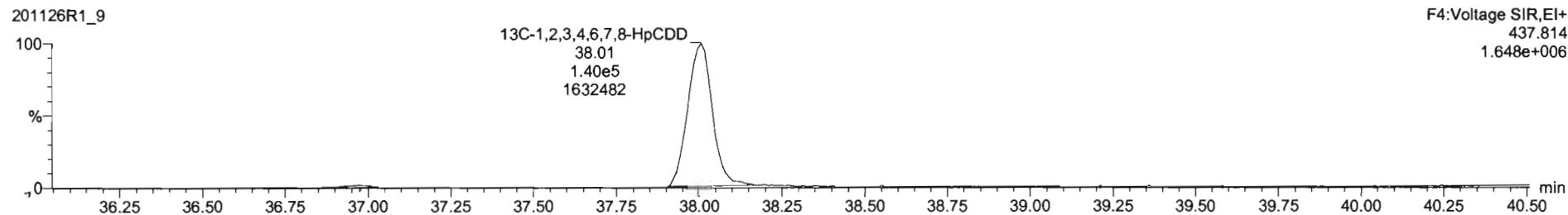
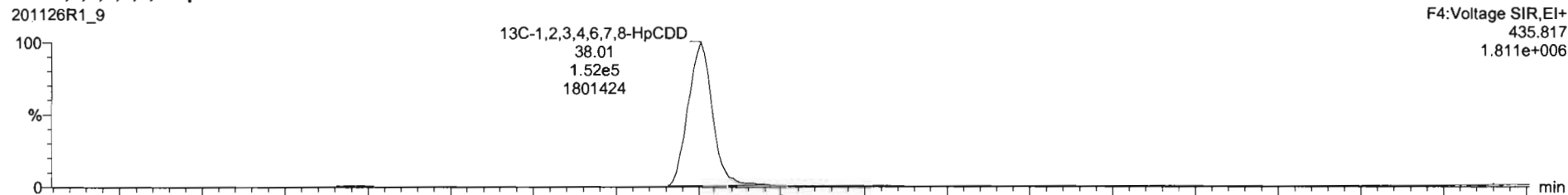
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Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

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

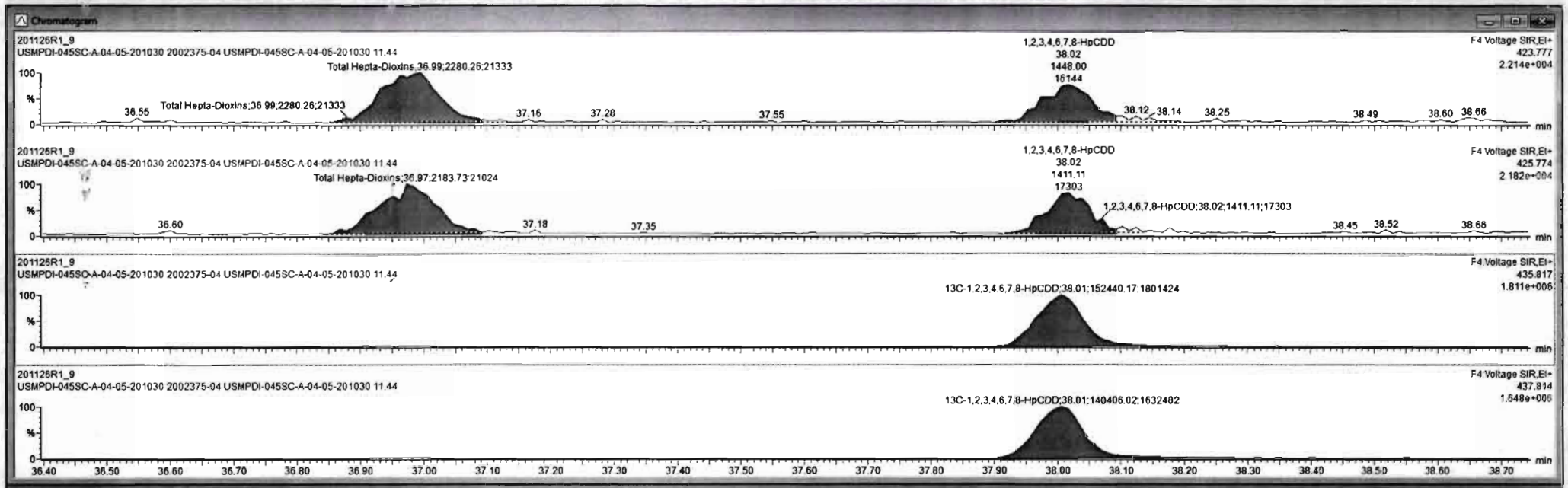


13C-1,2,3,4,6,7,8-HpCDD



Name	Resp	RA	n/y	RRF	wVvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.055					0.0417	
40 Total Penta-Dioxins				0.8855	10.055					0.0653	
41 Total Hexa-Dioxins				0.9145	10.055			0.845	0.132	0.845	
42 Total Hepta-Dioxins				0.9697	10.055			5.72	0.376	5.72	
43 Total Tetra-Furans				0.8243	10.055					0.0239	
44 1st Func. Penta-Furans				0.9626	10.055					0.00832	
45 Total Penta-Furans				0.9626	10.055					0.0271	
46 Total Hexa-Furans				0.9907	10.055					0.0326	
47 Total Hepta-Furans				0.9986	10.055					0.0418	

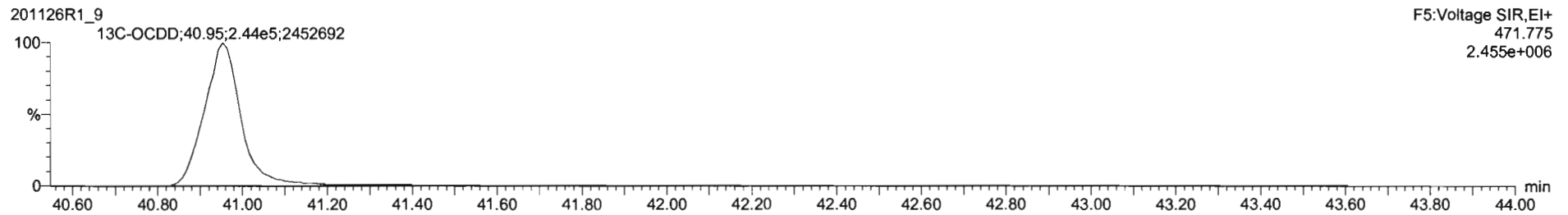
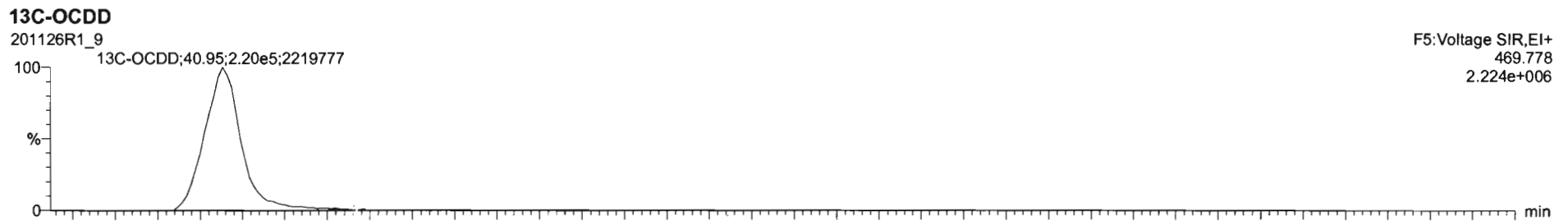
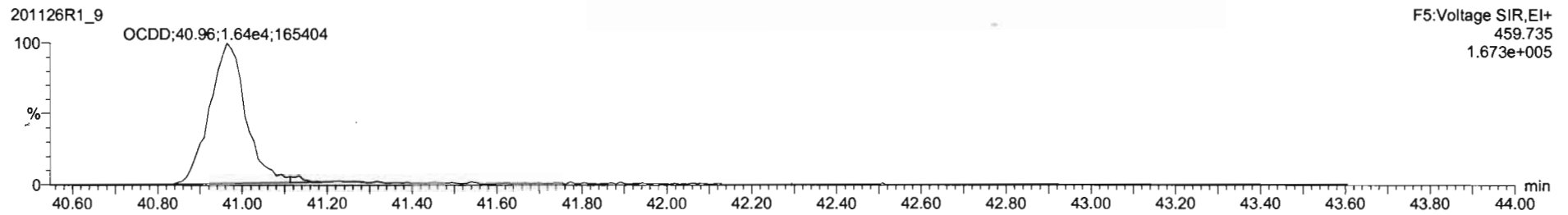
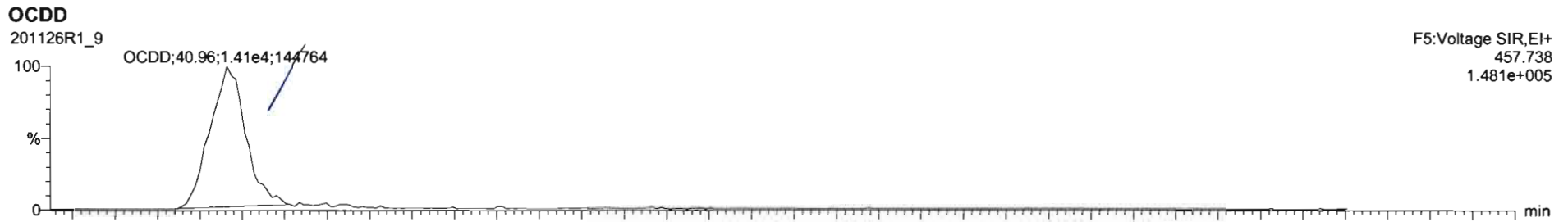
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDD	38.02	1.448e3	1.411e3	1.03	NO	2.2328	2.2328
2 Total Hepta-Dioxins	36.99	2.280e3	2.184e3	1.04	NO	3.4862	3.4862



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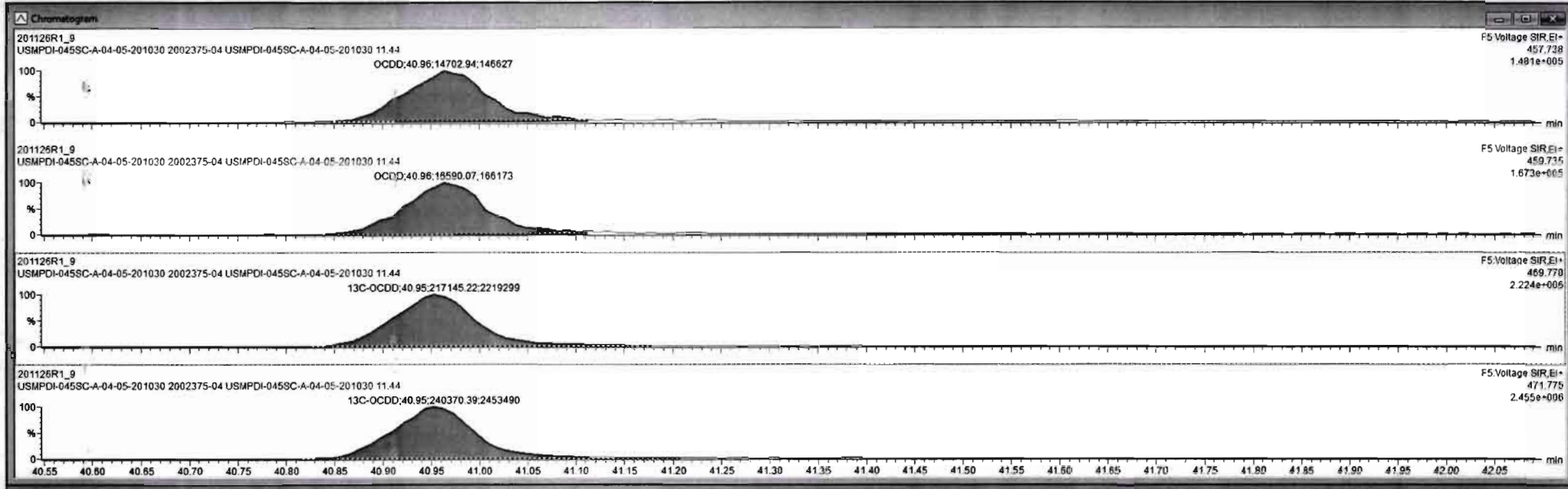
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Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
7	OCDD	3.13e4	0.89	NO	0.8717	10.055	40.96	1.000	31.2	0.504	31.2
9	2,3,7,8-TCDF			NO	0.8243	10.055				0.0540	
9	1,2,3,7,8-PeCDF			NO	0.9628	10.055				0.0608	
10	2,3,4,7,8-PeCDF			NO	1.0684	10.055				0.0549	
11	1,2,3,4,7,8-HxCDF			NO	0.9535	10.055				0.0534	
12	1,2,3,6,7,8-HxCDF			NO	1.0080	10.055				0.0537	
13	2,3,4,6,7,8-HxCDF			NO	0.9907	10.055				0.0600	
14	1,2,3,7,8,9-HxCDF			NO	0.9506	10.055				0.0961	
15	1,2,3,4,6,7,8-HpCDF			NO	0.9986	10.055				0.0981	

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

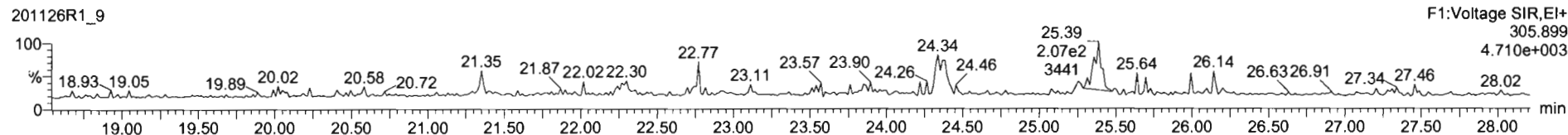
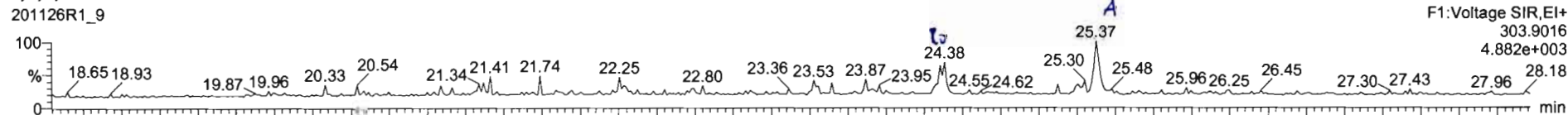


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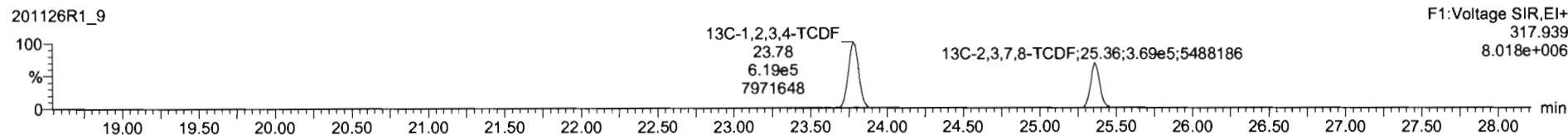
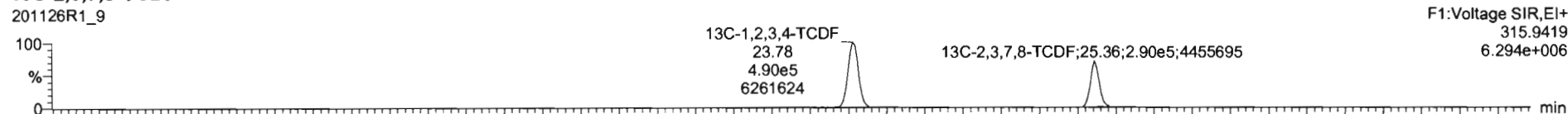
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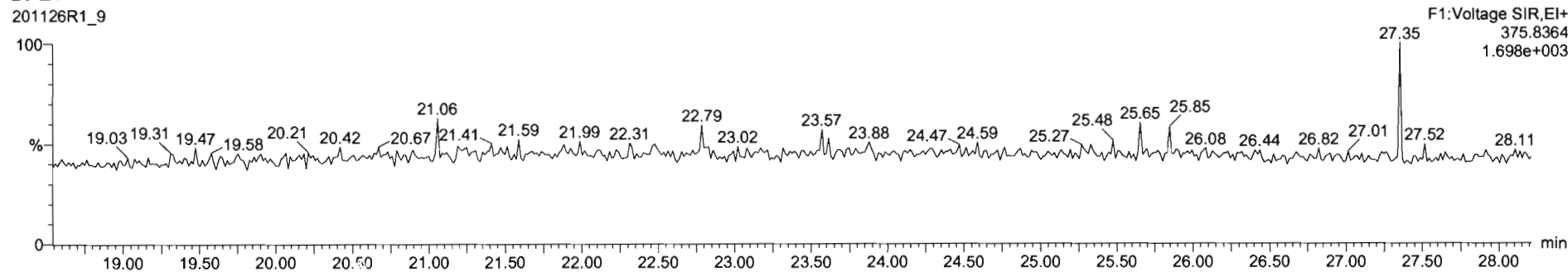
2,3,7,8-TCDF



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

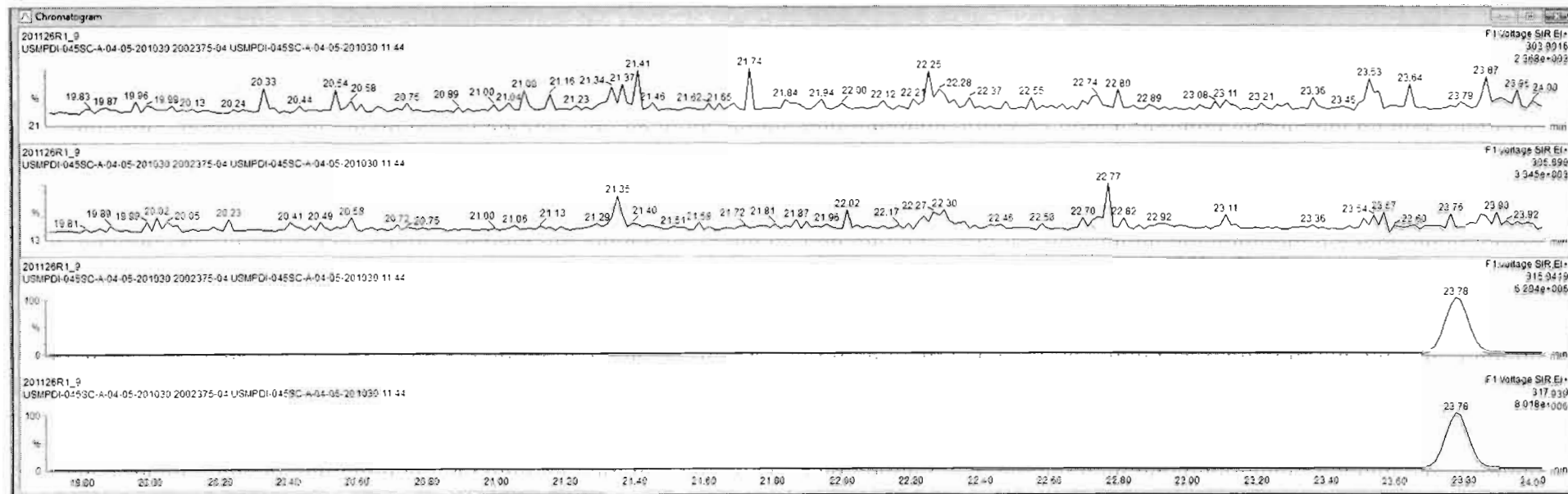


DPE1



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
16 1,2,3,4,7,8,9-HxCDF			ND	1.1238	10.055					0.105	
17 OCDF			NO	0.8602	10.055					0.105	
18 13C-1,2,3,7,8-TCDD	4.33e5	0.82	NO	1.1089	10.055	26.05	1.030	136	68.4	0.262	
19 13C-1,2,3,7,8-PeCDD	3.35e5	0.66	NO	0.6685	10.055	30.79	1.218	136	68.4	0.348	
20 13C-1,2,3,4,7,8-HxCDD	3.17e5	1.21	NO	0.6997	10.055	34.12	1.014	152	76.8	0.527	
21 13C-1,2,3,6,7,8-HxCDD	3.72e5	1.39	NO	0.8327	10.055	34.24	1.017	150	75.4	0.443	
22 13C-1,2,3,7,8,9-HxCDD	3.68e5	1.28	NO	0.7818	10.055	34.51	1.025	162	81.5	0.484	

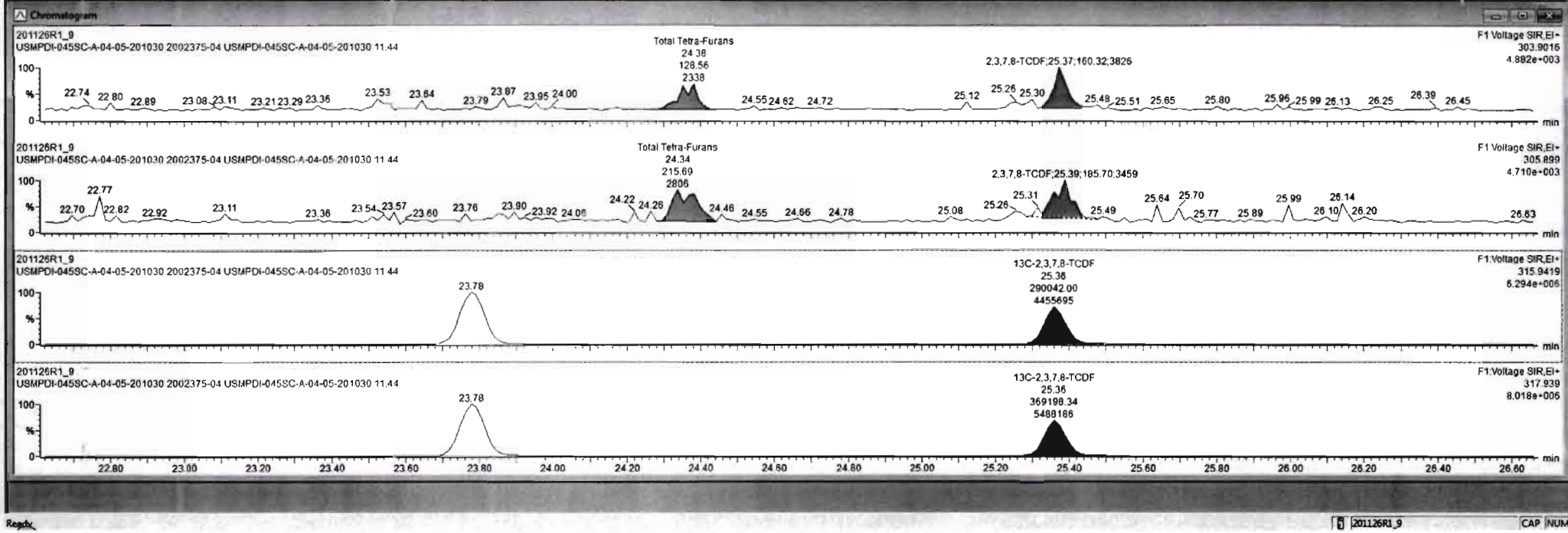
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



201126R1_9 - USMPDI-045SC-A-03-04-201030

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.055			0.127		0.0540	0.235
44 1st Func. Penta-Furans				0.9626	10.055					0.00832	
45 Total Penta-Furans				0.9626	10.055					0.0271	
46 Total Hexa-Furans				0.9907	10.055					0.0326	
47 Total Hepta-Furans				0.9986	10.055					0.0418	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	24.38	1.285e2	2.157e2	0.60	YES	0.10817	0.00000
2 2,3,7,8-TCDF	25.37	1.603e2	1.957e2	0.86	NO	0.12666	0.12666



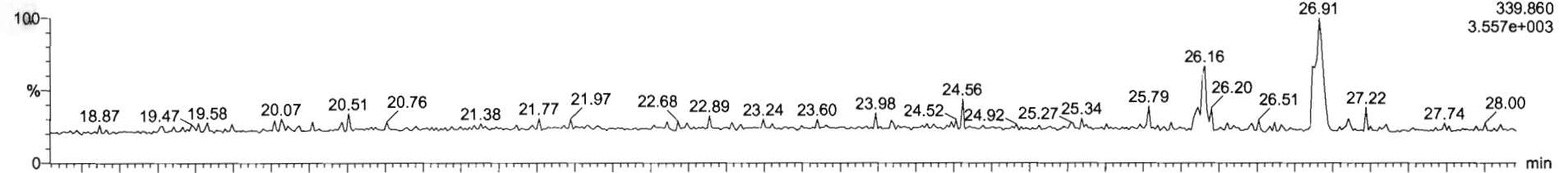
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

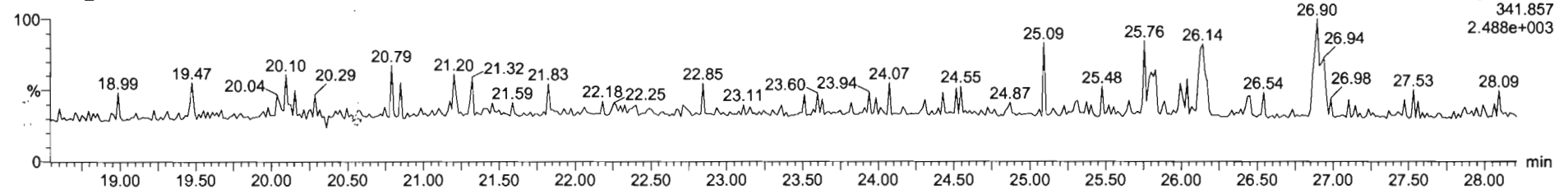
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1st Func. Penta-Furans

201126R1_9

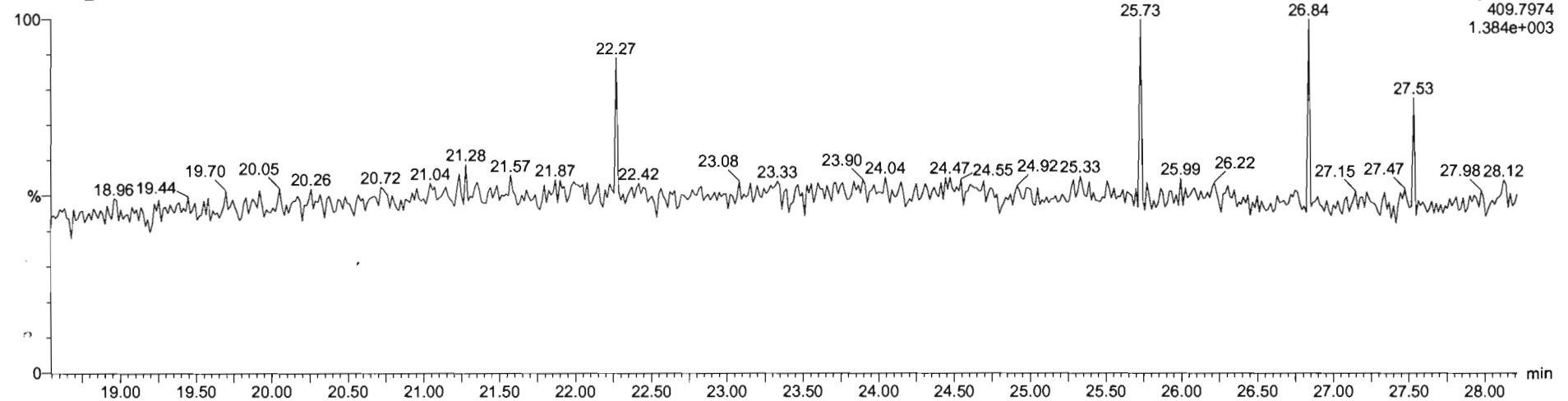


201126R1_9



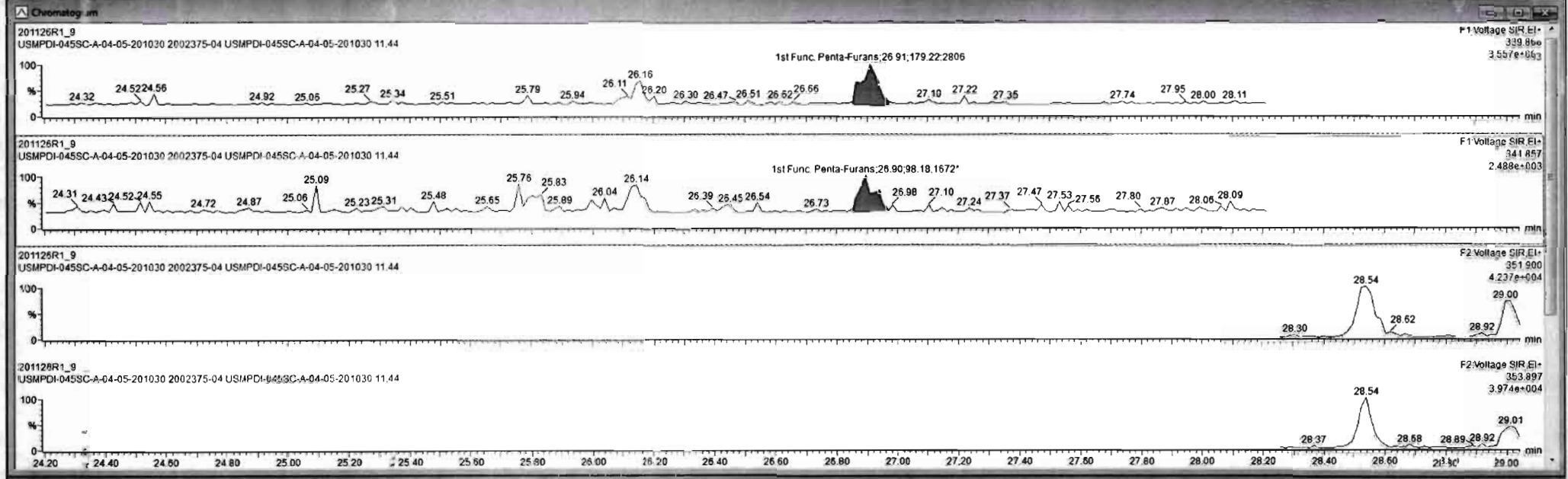
DPE6

201126R1_9



Name	Resp	RA	ny	RRF	wtVcl	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.055			0.127		0.0540	0.235
44 1st Func. Penta-Furans				0.9626	10.055			0.000		0.09332	0.0814
45 Total Penta-Furans				0.8626	10.055					0.0271	
46 Total Hexa-Furans				0.9907	10.055					0.0326	
47 Total Hepta-Furans				0.9968	10.055					0.0418	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc.
1 1st Func. Penta-Furans	26.91	1.792e2	9.589e1	1.87	YES	0.081400	0.00000

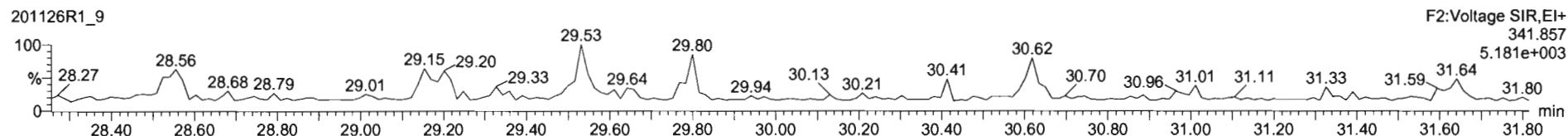
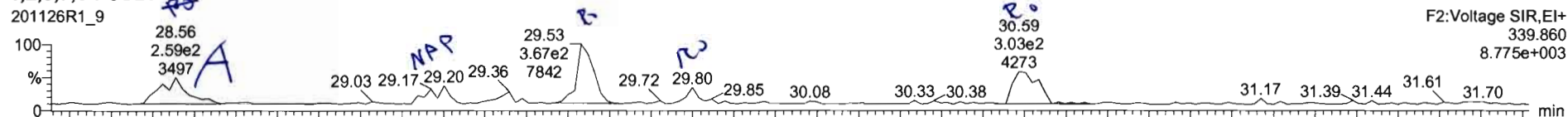


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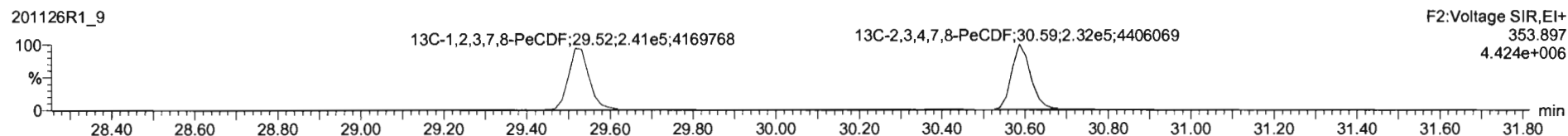
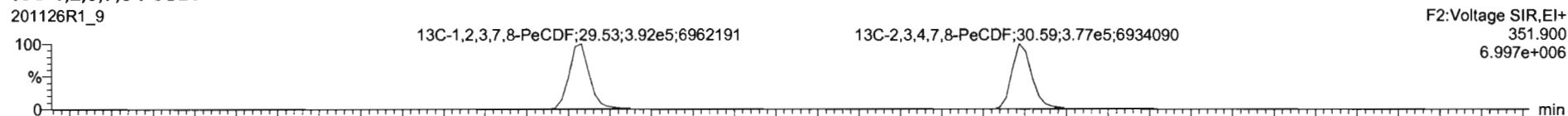
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Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

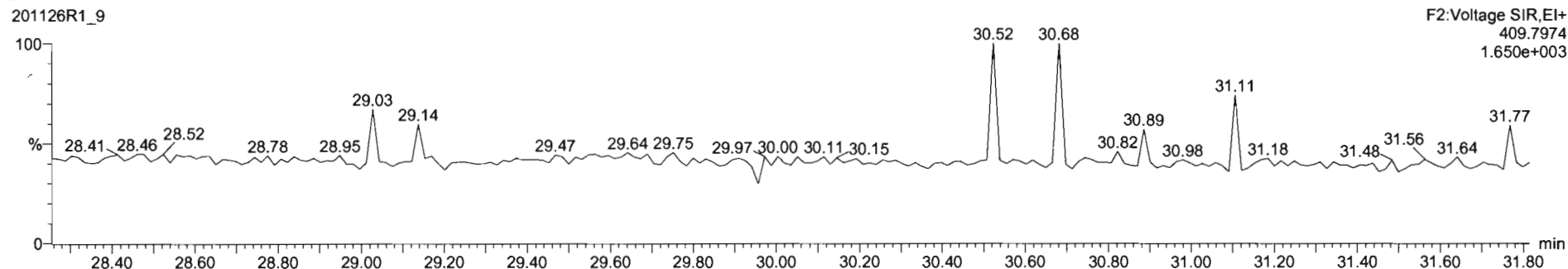
1,2,3,7,8-PeCDF



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

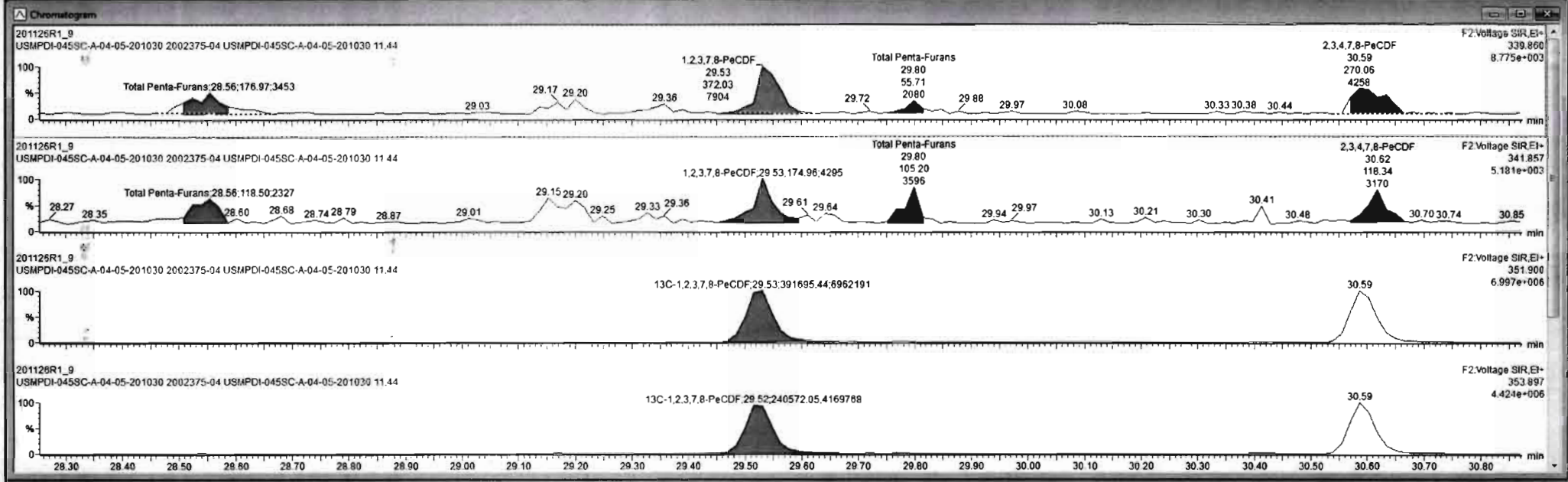


DPE2



Name	Resp	RA	n/y	RRF	wtAvd	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.8243	10.055			0.127		0.0540	0.235
44 1st Func. Penta-Furans				0.9626	10.055			0.000		0.00832	0.0834
45 Total Penta-Furans				0.9626	10.055			0.0984		0.0271	0.367
46 Total Hexa-Furans				0.9907	10.055					0.0326	
47 Total Hepta-Furans				0.9986	10.055					0.0418	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.56	1.770e2	1.185e2	1.49	NO	0.098373	0.098373
2 1,2,3,7,8-PeCDF	29.53	3.720e2	1.750e2	2.13	YES	0.14581	0.00000
3 Total Penta-Furans	29.80	5.571e1	1.052e2	0.53	YES	0.030514	0.00000
4 2,3,4,7,8-PeCDF	30.59	2.701e2	1.183e2	2.28	YES	0.092346	0.00000

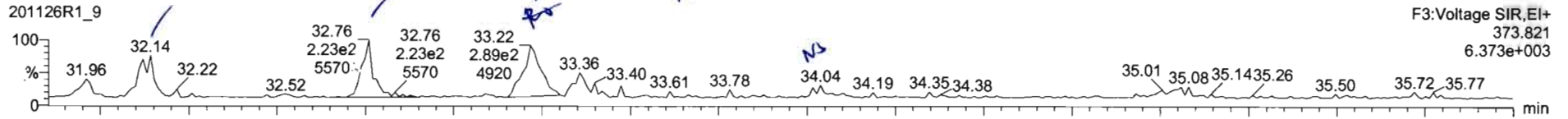


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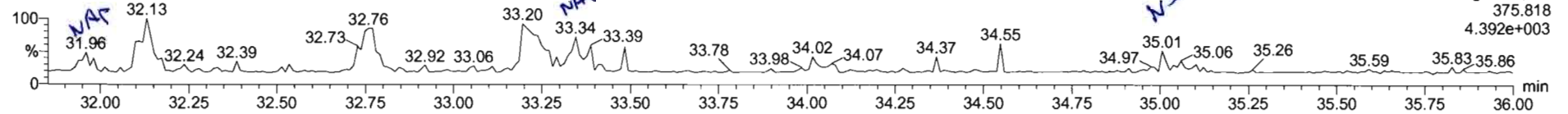
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Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

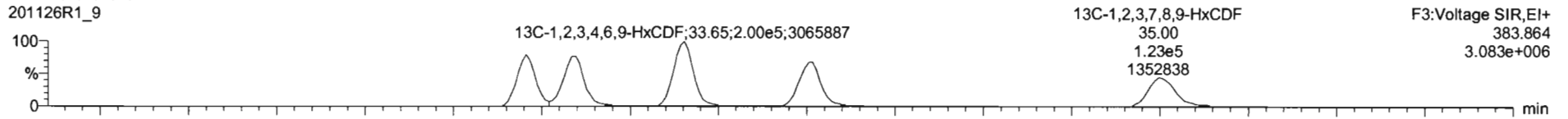
1,2,3,4,7,8-HxCDF



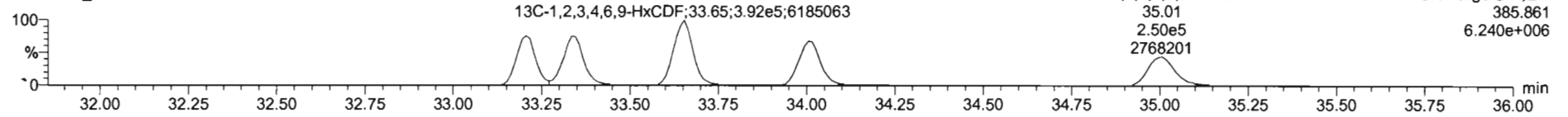
1,2,3,4,7,8-HxCDF



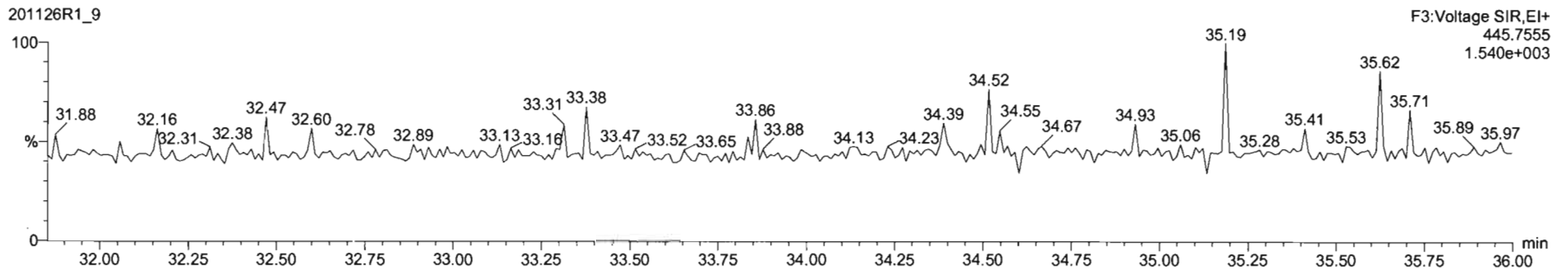
13C-1,2,3,4,7,8-HxCDF



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

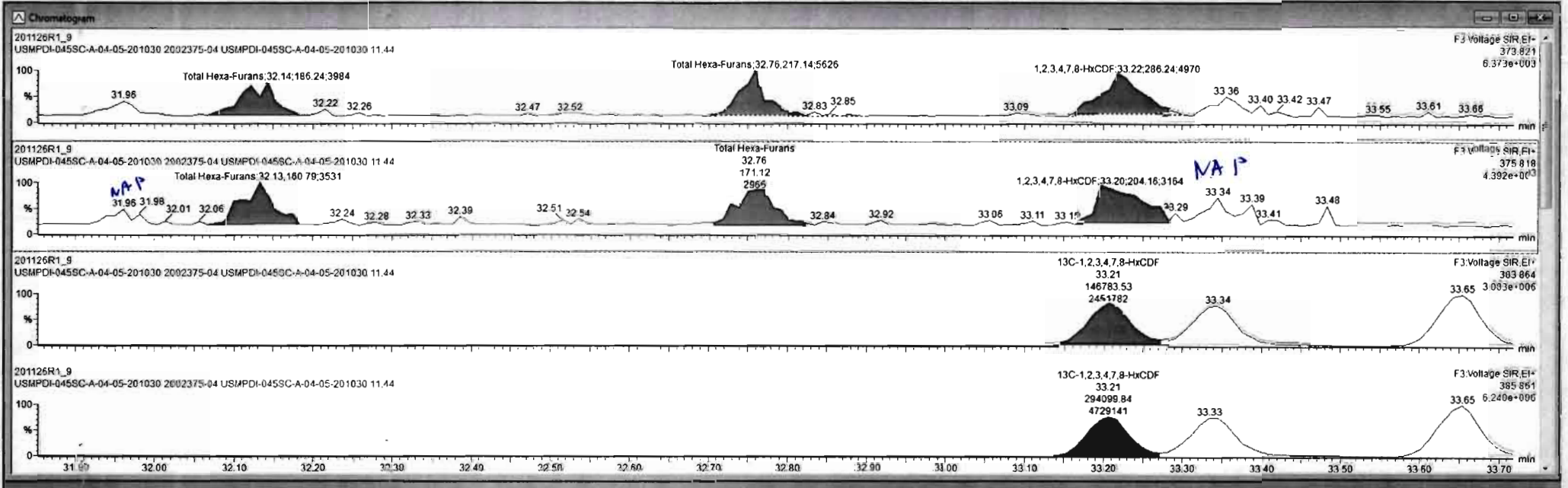


DPE3



#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.35e5	0.41	NO	0.7355	10.055	36.59	1.087	153	78.9	0.776	
33	13C-1,2,3,4,7,8-HpCDF	2.47e5	0.42	NO	0.5676	10.055	38.65	1.148	146	73.5	1.01	
34	13C-OCDF	5.28e5	0.86	NO	0.8282	10.055	41.24	1.225	282	70.8	0.834	
35	37Cl-2,3,7,8-TCDD	2.09e5			1.0578	10.055	26.07	1.031	66.7	83.9	0.8894	
36	13C-1,2,3,4-TCDD	5.72e5	0.83	NO	1.0000	10.055	25.28	1.000	199	100	0.290	
37	13C-1,2,3,4-TCDF	1.11e6	0.79	NO	1.0000	10.055	23.78	1.000	199	100	0.373	
38	13C-1,2,3,4,6,8-HxCDF	5.92e5	0.51	NO	1.0000	10.055	33.65	1.000	199	100	0.640	
39	Total Tetra-Dioxins				0.9501	10.055					0.0417	
40	Total Penta-Dioxins				0.8855	10.055					0.0653	

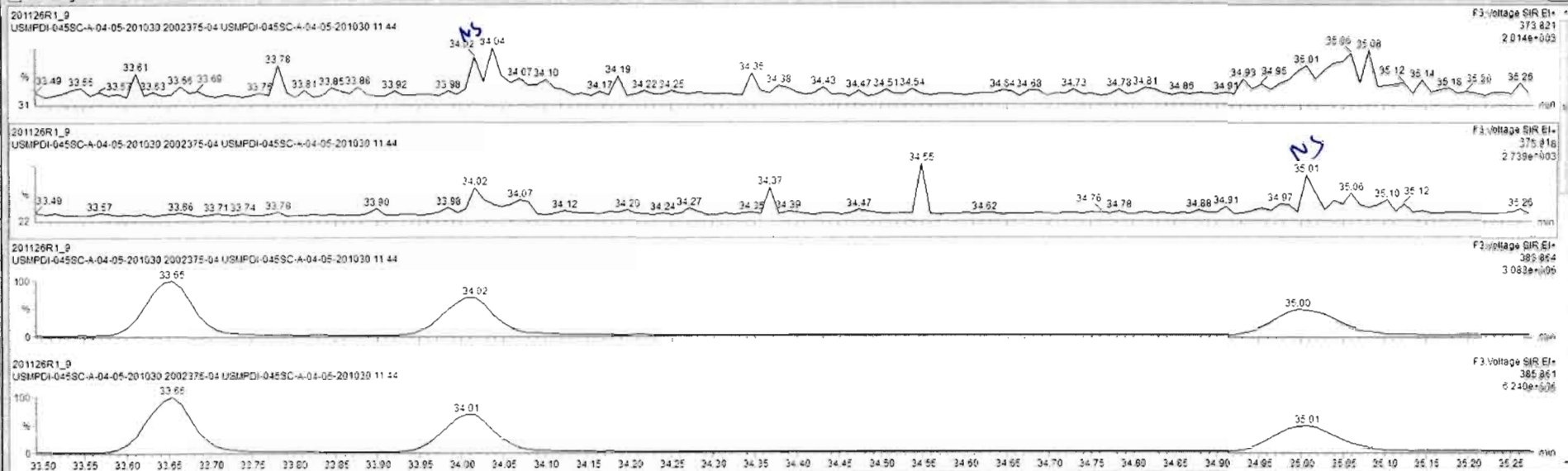
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.14	1.862e2	1.608e2	1.16	NO	0.16141	0.16141
2	Total Hexa-Furans	32.76	2.171e2	1.711e2	1.27	NO	0.18059	0.18059
3	1,2,3,4,7,8-HxCDF	33.22	2.862e2	2.042e2	1.40	NO	0.23204	0.23204



Name	Resp	RA	nly	RRF	ndvol	RT	RRT	Conc	%Rec	DL	EMPC
44	Tet Func. Penta-Furans			0.9628	10.355			0.500	0.00332	0.36532	
45	Total Penta-Furans			0.9626	10.355			0.0996	0.0271	0.342	
46	Total Hexa-Furans			0.9907	10.355			0.334	0.0326	0.548	
47	Total Hepta-Furans			0.9998	10.355				0.0413		
48	PFK1										
49	PFK2										
50	PFK3										

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Hexa-Furans	32.14	1.862e2	1.691e2	1.11	NO	0.16620
2	Total Hexa-Furans	32.78	2.109e2	1.492e2	1.41	NO	0.16753
3	1,2,3,4,7,8-HxCDF	33.22	2.909e2	2.033e2	1.44	YES	0.21438

Chromatogram

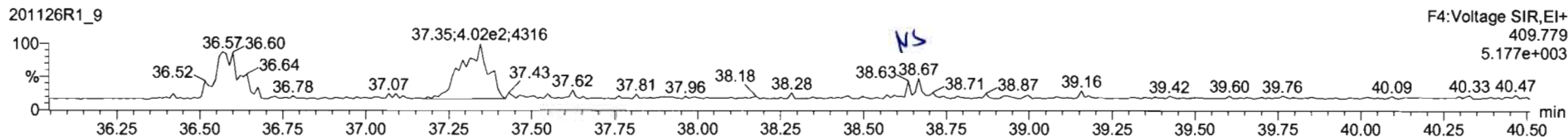
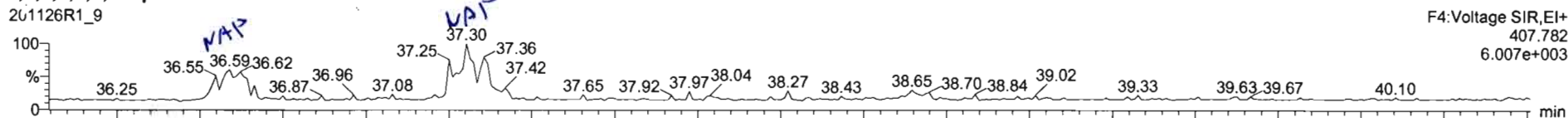


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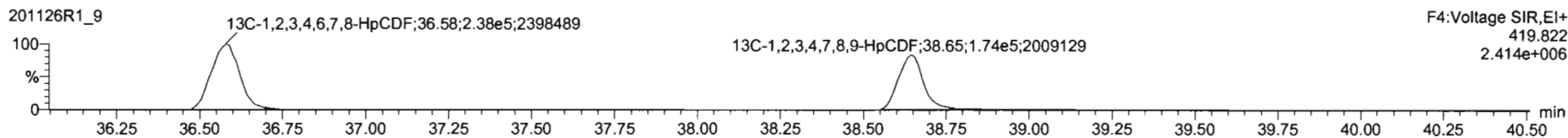
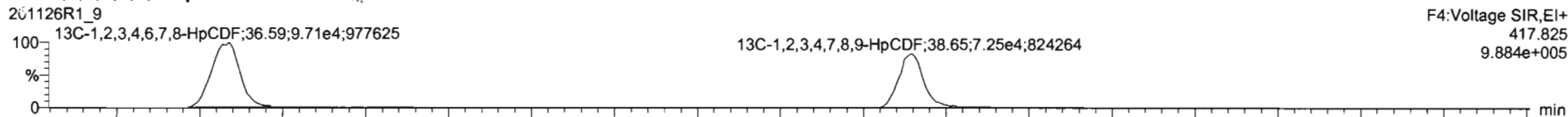
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Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

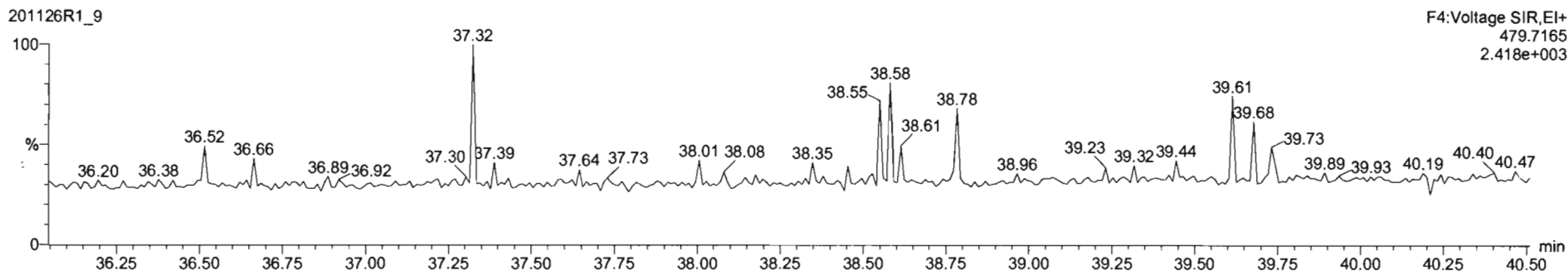
1,2,3,4,6,7,8-HpCDF



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



DPE4



Dataset: Untitled

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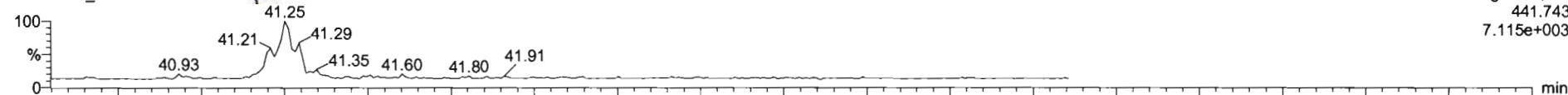
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Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030

OCDF

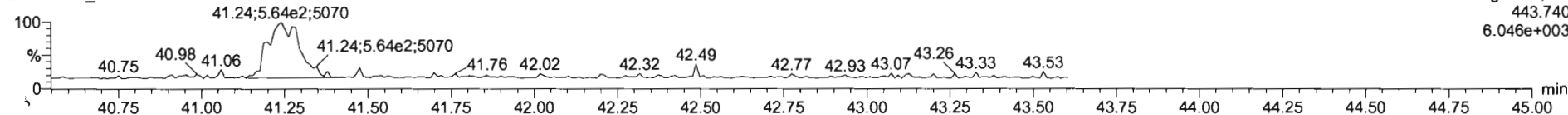
201126R1_9

F5:Voltage SIR,EI+
441.743
7.115e+003



201126R1_9

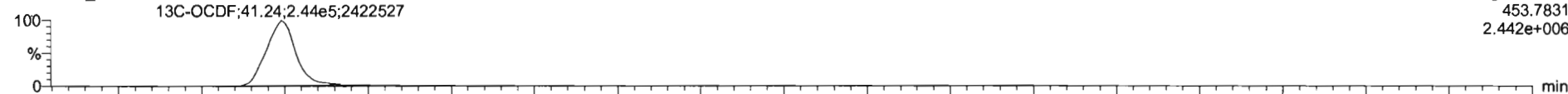
F5:Voltage SIR,EI+
443.740
6.046e+003



13C-OCDF

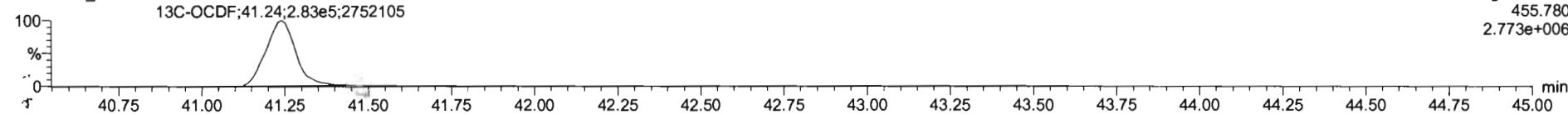
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F5:Voltage SIR,EI+
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2.442e+006



201126R1_9

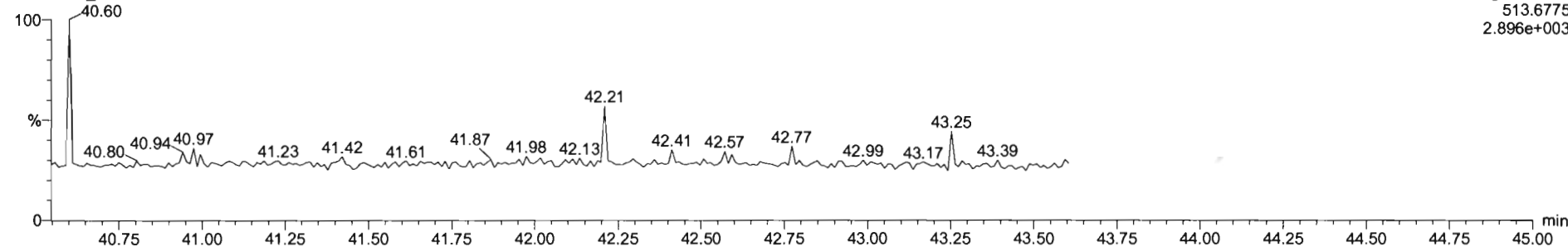
F5:Voltage SIR,EI+
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2.773e+006



DPE5

201126R1_9

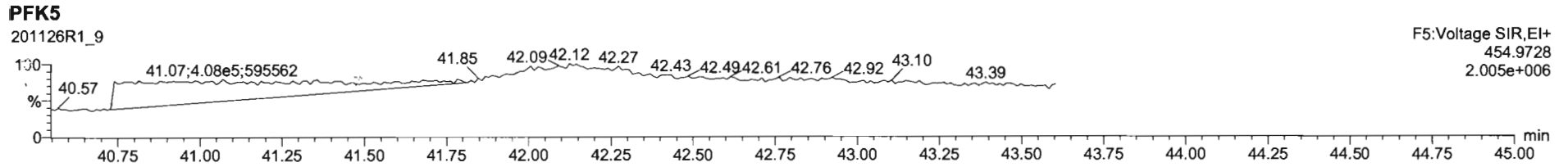
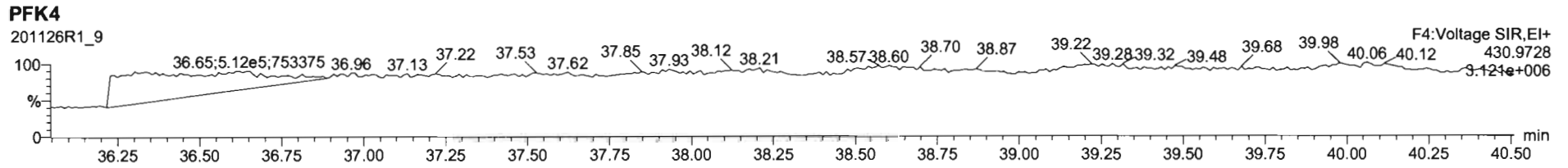
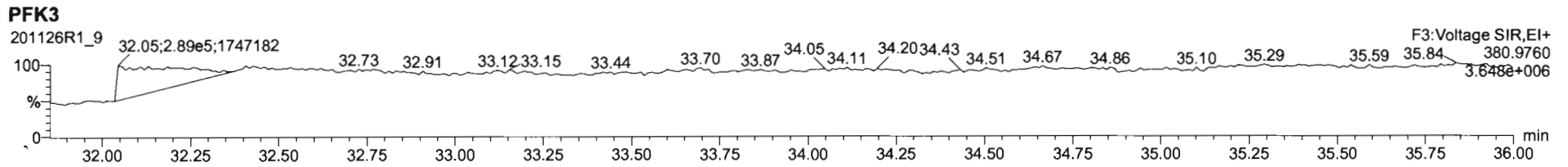
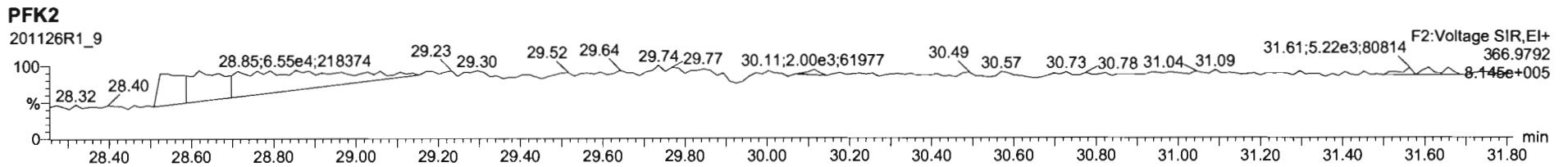
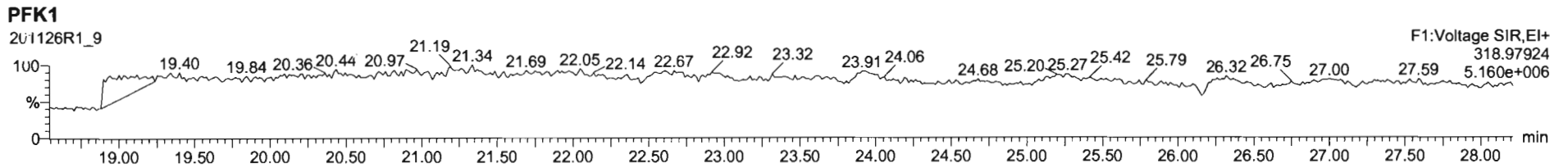
F5:Voltage SIR,EI+
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2.896e+003



Dataset: Untitled

Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_9, Date: 26-Nov-2020, Time: 14:35:42, ID: 2002375-04 USMPDI-045SC-A-04-05-201030 11.44, Description: USMPDI-045SC-A-04-05-201030



Dataset: U:\VG12.PRO\Results\201126R1\201126R1-10.qld

Last Altered: Thursday, December 03, 2020 07:18:03 Pacific Standard Time

Printed: Thursday, December 03, 2020 07:18:30 Pacific Standard Time

GPB 12/03/2020

C1 12/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_10, Date: 26-Nov-2020, Time: 15:20:34, ID: 2002375-05 USMPDI-047SC-A-01-02-201030 19.86, Description: USMPDI-047SC-A-01-02-201030

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.21e3	0.73	NO	0.950	10.031	26.068	26.07	1.001	1.001	1.5913		0.147	1.59
2	2 1,2,3,7,8-PeCDD	3.03e3	0.72	NO	0.885	10.031	30.784	30.79	1.000	1.001	1.9333		0.200	1.93
3	3 1,2,3,4,7,8-HxCDD	2.43e3	1.16	NO	1.02	10.031	34.100	34.09	1.000	1.000	1.5222		0.503	1.52
4	4 1,2,3,6,7,8-HxCDD	1.60e4	1.24	NO	0.915	10.031	34.218	34.22	1.000	1.000	9.3193		0.531	9.32
5	5 1,2,3,7,8,9-HxCDD	6.87e3	1.28	NO	0.934	10.031	34.495	34.48	1.000	1.000	4.0990		0.595	4.10
6	6 1,2,3,4,6,7,8-HpCDD	1.57e5	1.02	NO	0.870	10.031	37.985	38.01	1.000	1.001	121.58		1.33	122
7	7 OCDD	1.22e6	0.89	NO	0.872	10.031	40.942	40.95	1.000	1.000	1237.9		1.35	1240
8	8 2,3,7,8-TCDF	9.17e4	0.74	NO	0.824	10.031	25.352	25.37	1.000	1.001	23.839		0.108	23.8
9	9 1,2,3,7,8-PeCDF	1.37e5	1.56	NO	0.963	10.031	29.509	29.52	1.000	1.001	41.053		0.365	41.1
10	10 2,3,4,7,8-PeCDF	6.97e4	1.56	NO	1.07	10.031	30.587	30.60	1.000	1.000	19.216		0.352	19.2
11	11 1,2,3,4,7,8-HxCDF	1.19e5	1.22	NO	0.953	10.031	33.185	33.21	1.000	1.001	54.189		0.253	54.2
12	12 1,2,3,6,7,8-HxCDF	3.16e4	1.21	NO	1.01	10.031	33.324	33.33	1.000	1.000	13.288		0.246	13.3
13	13 2,3,4,6,7,8-HxCDF	9.30e3	1.10	NO	0.991	10.031	33.987	34.02	1.000	1.001	4.2877		0.286	4.29
14	14 1,2,3,7,8,9-HxCDF	4.40e3	1.16	NO	0.951	10.031	34.985	35.01	1.000	1.001	2.4663		0.417	2.47
15	15 1,2,3,4,6,7,8-HpCDF	4.01e4	0.94	NO	0.999	10.031	36.562	36.57	1.000	1.000	25.384		0.338	25.4
16	16 1,2,3,4,7,8,9-HpCDF	8.87e3	0.96	NO	1.12	10.031	38.613	38.63	1.000	1.001	6.6259		0.362	6.63
17	17 OCDF	5.31e4	0.83	NO	0.868	10.031	41.238	41.24	1.000	1.000	47.758		0.369	47.8
18	18 13C-2,3,7,8-TCDD	5.55e5	0.81	NO	1.11	10.031	26.028	26.04	1.030	1.030	173.40	87.0	0.309	
19	19 13C-1,2,3,7,8-PeCDD	3.52e5	0.66	NO	0.859	10.031	30.738	30.77	1.216	1.218	142.12	71.3	0.346	
20	20 13C-1,2,3,4,7,8-HxCDD	3.13e5	1.29	NO	0.700	10.031	34.099	34.09	1.014	1.014	144.54	72.5	0.499	
21	21 13C-1,2,3,6,7,8-HxCDD	3.74e5	1.29	NO	0.833	10.031	34.237	34.21	1.018	1.017	144.94	72.7	0.420	
22	22 13C-1,2,3,7,8,9-HxCDD	3.58e5	1.32	NO	0.762	10.031	34.480	34.49	1.025	1.025	151.66	76.1	0.459	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.97e5	1.05	NO	0.650	10.031	37.960	37.99	1.129	1.129	147.53	74.0	0.832	
24	24 13C-OCDD	4.50e5	0.89	NO	0.539	10.031	40.923	40.94	1.217	1.217	269.33	67.5	0.618	
25	25 13C-2,3,7,8-TCDF	9.30e5	0.79	NO	0.981	10.031	25.351	25.34	1.003	1.003	167.44	84.0	0.305	
26	26 13C-1,2,3,7,8-PeCDF	6.92e5	1.65	NO	0.792	10.031	29.472	29.50	1.166	1.167	154.55	77.5	0.732	
27	27 13C-2,3,4,7,8-PeCDF	6.77e5	1.63	NO	0.778	10.031	30.529	30.59	1.208	1.210	153.77	77.1	0.745	
28	28 13C-1,2,3,4,7,8-HxCDF	4.60e5	0.50	NO	0.954	10.031	33.191	33.19	0.987	0.987	155.67	78.1	0.598	
29	29 13C-1,2,3,6,7,8-HxCDF	4.71e5	0.50	NO	1.01	10.031	33.323	33.32	0.991	0.991	151.18	75.8	0.567	
30	30 13C-2,3,4,6,7,8-HxCDF	4.36e5	0.51	NO	0.921	10.031	33.992	33.98	1.011	1.010	153.09	76.8	0.619	
31	31 13C-1,2,3,7,8,9-HxCDF	3.75e5	0.49	NO	0.803	10.031	34.987	34.99	1.040	1.040	150.63	75.6	0.710	

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-10.qld

Last Altered: Thursday, December 03, 2020 07:18:03 Pacific Standard Time

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Name: 201126R1_10, Date: 26-Nov-2020, Time: 15:20:34, ID: 2002375-05 USMPDI-047SC-A-01-02-201030 19.86, Description: USMPDI-047SC-A-01-02-201030

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.16e5	0.42	NO	0.735	10.031	36.555	36.56	1.087	1.087	138.62	69.5	0.634	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.37e5	0.43	NO	0.568	10.031	38.589	38.61	1.147	1.148	135.16	67.8	0.821	
34	34 13C-OCDF	5.11e5	0.86	NO	0.629	10.031	41.206	41.23	1.225	1.226	262.35	65.8	0.587	
35	35 37Cl-2,3,7,8-TCDD	2.44e5			1.09	10.031	26.028	26.07	1.030	1.032	77.755	97.5	0.0901	
36	36 13C-1,2,3,4-TCDD	5.76e5	0.81	NO	1.00	10.031	25.370	25.27	1.000	1.000	199.37	100	0.342	
37	37 13C-1,2,3,4-TCDF	1.13e6	0.80	NO	1.00	10.031	23.870	23.78	1.000	1.000	199.37	100	0.300	
38	38 13C-1,2,3,4,6,9-HxCDF	6.17e5	0.49	NO	1.00	10.031	33.710	33.63	1.000	1.000	199.37	100	0.570	
39	39 Total Tetra-Dioxins				0.950	10.031	24.620		0.000		12.315		0.147	12.5
40	40 Total Penta-Dioxins				0.885	10.031	29.960		0.000		13.246		0.200	19.5
41	41 Total Hexa-Dioxins				0.915	10.031	33.635		0.000		90.115		0.566	90.1
42	42 Total Hepta-Dioxins				0.870	10.031	37.640		0.000		312.02		1.33	312
43	43 Total Tetra-Furans				0.824	10.031	23.610		0.000		88.691		0.108	89.3
44	44 1st Func. Penta-Furans				0.963	10.031	26.930		0.000		9.1773		0.0308	9.18
45	45 Total Penta-Furans				0.963	10.031	29.275		0.000		110.03		0.378	110
46	46 Total Hexa-Furans				0.991	10.031	33.555		0.000		120.52		0.290	121
47	47 Total Hepta-Furans				0.999	10.031	37.835		0.000		73.017		0.368	73.0

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Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_10, Date: 26-Nov-2020, Time: 15:20:34, ID: 2002375-05 USMPDI-047SC-A-01-02-201030 19.86, Description: USMPDI-047SC-A-01-02-201030

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.22	3.093e4	4.270e4	3.071e3	3.974e3	0.77	NO	7.045e3	2.6626	2.6626	0.147
2	Total Tetra-Dioxins	22.58	1.636e4	2.324e4	1.442e3	1.880e3	0.77	NO	3.323e3	1.2557	1.2557	0.147
3	Total Tetra-Dioxins	23.13	1.156e4	1.351e4	8.398e2	1.009e3	0.83	NO	1.849e3	0.69875	0.69875	0.147
4	Total Tetra-Dioxins	23.95	8.704e3	1.159e4	6.486e2	7.917e2	0.82	NO	1.440e3	0.54432	0.54432	0.147
5	Total Tetra-Dioxins	24.19	8.676e3	8.915e3	7.016e2	8.272e2	0.85	NO	1.529e3	0.57775	0.57775	0.147
6	Total Tetra-Dioxins	24.41	1.411e4	1.741e4	1.030e3	1.175e3	0.88	NO	2.205e3	0.83316	0.83316	0.147
7	Total Tetra-Dioxins	24.59	5.595e3	6.235e3	3.068e2	4.066e2	0.75	NO	7.134e2	0.26961	0.26961	0.147
8	Total Tetra-Dioxins	24.92	6.110e3	8.873e3	4.165e2	6.035e2	0.69	NO	1.020e3	0.38548	0.38548	0.147
9	Total Tetra-Dioxins	25.00	5.954e3	7.962e3	3.769e2	5.350e2	0.70	NO	9.119e2	0.34462	0.34462	0.147
10	Total Tetra-Dioxins	25.30	3.574e3	4.639e3	2.346e2	2.281e2	1.03	YES	0.000e0	0.00000	0.15260	0.147
11	Total Tetra-Dioxins	25.40	5.023e3	5.371e3	3.042e2	3.999e2	0.76	NO	7.041e2	0.26610	0.26610	0.147
12	Total Tetra-Dioxins	25.79	4.390e4	5.420e4	3.095e3	3.776e3	0.82	NO	6.871e3	2.5967	2.5967	0.147
13	2,3,7,8-TCDD	26.07	2.700e4	3.537e4	1.770e3	2.440e3	0.73	NO	4.211e3	1.5913	1.5913	0.147
14	Total Tetra-Dioxins	26.41	4.997e3	6.046e3	3.476e2	4.173e2	0.83	NO	7.649e2	0.28907	0.28907	0.147

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.51	4.721e4	6.293e4	3.311e3	5.350e3	0.62	NO	8.662e3	5.5351	5.5351	0.200
2	Total Penta-Dioxins	29.00	1.819e4	2.552e4	1.041e3	1.462e3	0.71	NO	2.503e3	1.5998	1.5998	0.200
3	Total Penta-Dioxins	29.52	3.494e4	4.211e4	1.828e3	2.501e3	0.73	YES	0.000e0	0.00000	2.6056	0.200
4	Total Penta-Dioxins	29.70	2.652e4	4.463e4	1.482e3	2.436e3	0.61	NO	0.000e0	0.00000	2.5035	0.200
5	Total Penta-Dioxins	29.75	2.008e4	2.632e4	7.706e2	1.095e3	0.70	NO	0.000e0	0.00000	1.1923	0.200
6	Total Penta-Dioxins	29.99	2.365e4	4.137e4	1.712e3	2.527e3	0.68	NO	4.240e3	2.7093	2.7093	0.200
7	Total Penta-Dioxins	30.29	3.219e3	9.922e3	2.452e2	4.339e2	0.57	NO	6.791e2	0.43396	0.43396	0.200
8	1,2,3,7,8-PeCDD	30.79	2.312e4	3.018e4	1.270e3	1.756e3	0.72	NO	3.025e3	1.9333	1.9333	0.200
9	Total Penta-Dioxins	30.87	6.934e3	8.620e3	3.385e2	4.799e2	0.71	NO	8.184e2	0.52300	0.52300	0.200
10	Total Penta-Dioxins	31.14	5.554e3	7.945e3	3.212e2	4.796e2	0.67	NO	8.008e2	0.51171	0.51171	0.200

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Name: 201126R1_10, Date: 26-Nov-2020, Time: 15:20:34, ID: 2002375-05 USMPDI-047SC-A-01-02-201030 19.86, Description: USMPDI-047SC-A-01-02-201030

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.48	4.842e5	3.867e5	2.541e4	2.033e4	1.25	NO	4.573e4	28.646	28.646	0.566
2	Total Hexa-Dioxins	33.08	4.542e4	4.124e4	2.601e3	2.206e3	1.18	NO	4.807e3	3.0108	3.0108	0.566
3	Total Hexa-Dioxins	33.37	4.860e5	3.923e5	3.502e4	2.873e4	1.22	NO	6.375e4	39.933	39.933	0.566
4	Total Hexa-Dioxins	33.43	4.591e4	3.568e4	2.313e3	1.830e3	1.26	NO	4.143e3	2.5949	2.5949	0.566
5	1,2,3,4,7,8-HxCDD	34.09	2.044e4	1.666e4	1.303e3	1.129e3	1.16	NO	2.432e3	1.5222	1.5222	0.503
6	1,2,3,6,7,8-HxCDD	34.22	1.232e5	1.059e5	8.840e3	7.129e3	1.24	NO	1.597e4	9.3193	9.3193	0.531
7	Total Hexa-Dioxins	34.37	1.197e4	1.094e4	8.936e2	6.877e2	1.30	NO	1.581e3	0.99045	0.99045	0.566
8	1,2,3,7,8,9-HxCDD	34.48	5.021e4	3.861e4	3.856e3	3.014e3	1.28	NO	6.870e3	4.0990	4.0990	0.595

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.95	1.361e6	1.334e6	1.235e5	1.229e5	1.01	NO	2.464e5	190.45	190.45	1.33
2	1,2,3,4,6,7,8-HpCDD	38.01	1.020e6	9.901e5	7.942e4	7.788e4	1.02	NO	1.573e5	121.58	121.58	1.33

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Name: 201126R1_10, Date: 26-Nov-2020, Time: 15:20:34, ID: 2002375-05 USMPDI-047SC-A-01-02-201030 19.86, Description: USMPDI-047SC-A-01-02-201030

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.99	2.590e3	5.981e3	2.635e2	3.629e2	0.73	NO	6.265e2	0.16293	0.16293	0.108
2	Total Tetra-Furans	20.55	1.712e4	2.285e4	1.658e3	2.101e3	0.79	NO	3.759e3	0.97775	0.97775	0.108
3	Total Tetra-Furans	21.34	9.128e4	1.262e5	8.949e3	1.183e4	0.76	NO	2.078e4	5.4042	5.4042	0.108
4	Total Tetra-Furans	21.57	4.060e3	3.442e3	2.069e2	2.499e2	0.83	NO	4.569e2	0.11882	0.11882	0.108
5	Total Tetra-Furans	21.71	1.017e4	1.553e4	7.865e2	1.115e3	0.71	NO	1.902e3	0.49465	0.49465	0.108
6	Total Tetra-Furans	21.83	3.477e4	3.783e4	3.135e3	4.093e3	0.77	NO	7.227e3	1.8796	1.8796	0.108
7	Total Tetra-Furans	21.93	1.451e4	1.995e4	9.245e2	1.238e3	0.75	NO	2.162e3	0.56239	0.56239	0.108
8	Total Tetra-Furans	22.18	1.016e4	1.618e4	6.296e2	8.377e2	0.75	NO	1.467e3	0.38163	0.38163	0.108
9	Total Tetra-Furans	22.28	1.193e5	1.676e5	1.158e4	1.605e4	0.72	NO	2.762e4	7.1840	7.1840	0.108
10	Total Tetra-Furans	22.73	5.649e4	8.410e4	5.223e3	7.068e3	0.74	NO	1.229e4	3.1966	3.1966	0.108
11	Total Tetra-Furans	22.88	1.448e4	1.966e4	1.203e3	1.570e3	0.77	NO	2.773e3	0.72110	0.72110	0.108
12	Total Tetra-Furans	23.10	3.091e4	4.063e4	2.785e3	3.686e3	0.76	NO	6.472e3	1.6831	1.6831	0.108
13	Total Tetra-Furans	23.53	9.308e3	1.099e4	7.236e2	8.388e2	0.86	NO	1.562e3	0.40634	0.40634	0.108
14	Total Tetra-Furans	23.63	1.031e4	1.289e4	7.899e2	1.065e3	0.74	NO	1.855e3	0.48240	0.48240	0.108
15	Total Tetra-Furans	23.81	4.330e4	6.453e4	1.475e3	1.954e3	0.75	NO	3.429e3	0.89171	0.89171	0.108
16	Total Tetra-Furans	23.87	1.253e5	1.573e5	1.252e4	1.630e4	0.77	NO	2.881e4	7.4932	7.4932	0.108
17	Total Tetra-Furans	24.35	4.701e5	6.534e5	3.531e4	4.959e4	0.71	NO	8.491e4	22.083	22.083	0.108
18	Total Tetra-Furans	24.68	2.274e4	2.923e4	1.550e3	2.110e3	0.73	NO	3.660e3	0.95185	0.95185	0.108
19	Total Tetra-Furans	24.80	9.959e3	1.514e4	6.676e2	1.014e3	0.66	NO	1.682e3	0.43735	0.43735	0.108
20	Total Tetra-Furans	25.08	1.114e4	1.539e4	6.463e2	9.568e2	0.68	NO	1.603e3	0.41693	0.41693	0.108
21	Total Tetra-Furans	25.24	1.259e5	1.731e5	8.101e3	1.144e4	0.71	NO	1.954e4	5.0826	5.0826	0.108
22	2,3,7,8-TCDF	25.37	5.995e5	8.038e5	3.896e4	5.271e4	0.74	NO	9.166e4	23.839	23.839	0.108
23	Total Tetra-Furans	25.61	1.005e4	1.105e4	4.458e2	5.752e2	0.78	NO	1.021e3	0.26553	0.26553	0.108
24	Total Tetra-Furans	25.67	2.911e4	3.336e4	1.708e3	2.278e3	0.75	NO	3.987e3	1.0368	1.0368	0.108
25	Total Tetra-Furans	25.96	9.553e3	1.220e4	5.638e2	7.200e2	0.78	NO	1.284e3	0.33390	0.33390	0.108
26	Total Tetra-Furans	26.91	1.318e4	2.136e4	9.011e2	1.138e3	0.79	NO	2.039e3	0.53022	0.53022	0.108
27	Total Tetra-Furans	27.10	3.727e4	2.231e4	2.114e3	1.262e3	1.67	YES	0.000e0	0.00000	0.58099	0.108
28	Total Tetra-Furans	27.28	4.577e4	6.226e4	2.840e3	3.595e3	0.79	NO	6.435e3	1.6737	1.6737	0.108

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-10.qld

Last Altered: Thursday, December 03, 2020 07:18:03 Pacific Standard Time

Printed: Thursday, December 03, 2020 07:18:30 Pacific Standard Time

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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	26.90	3.072e5	1.864e5	1.924e4	1.110e4	1.73	NO	3.034e4	9.1773	9.1773	0.0308

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.37	3.751e4	2.942e4	2.787e3	1.840e3	1.51	NO	4.627e3	1.3999	1.3999	0.378
2	Total Penta-Furans	28.54	7.277e5	4.383e5	4.703e4	2.988e4	1.57	NO	7.691e4	23.267	23.267	0.378
3	Total Penta-Furans	29.01	9.972e3	6.969e3	6.472e2	4.238e2	1.53	NO	1.071e3	0.32399	0.32399	0.378
4	Total Penta-Furans	29.15	1.533e5	9.588e4	9.091e3	5.867e3	1.55	NO	1.496e4	4.5252	4.5252	0.378
5	Total Penta-Furans	29.33	1.441e5	8.881e4	7.520e3	4.976e3	1.51	NO	1.250e4	3.7803	3.7803	0.378
6	1,2,3,7,8-PeCDF	29.52	1.565e6	1.000e6	8.356e4	5.370e4	1.56	NO	1.373e5	41.053	41.053	0.365
7	Total Penta-Furans	29.63	2.761e4	1.930e4	1.187e3	8.058e2	1.47	NO	1.993e3	0.60280	0.60280	0.378
8	Total Penta-Furans	29.78	5.644e5	3.268e5	2.888e4	1.816e4	1.59	NO	4.704e4	14.232	14.232	0.378
9	Total Penta-Furans	30.41	1.277e4	8.453e3	7.088e2	4.274e2	1.66	NO	1.136e3	0.34375	0.34375	0.378
10	2,3,4,7,8-PeCDF	30.60	7.536e5	4.710e5	4.248e4	2.721e4	1.56	NO	6.969e4	19.216	19.216	0.352
11	Total Penta-Furans	31.51	2.840e4	2.269e4	2.635e3	1.604e3	1.64	NO	4.239e3	1.2825	1.2825	0.378

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.94	9.789e4	8.588e4	5.216e3	4.375e3	1.19	NO	9.590e3	4.4338	4.4338	0.290
2	Total Hexa-Furans	32.11	3.453e5	2.886e5	1.802e4	1.500e4	1.20	NO	3.302e4	15.266	15.266	0.290
3	Total Hexa-Furans	32.51	8.483e3	6.099e3	4.611e2	4.355e2	1.06	NO	8.966e2	0.41453	0.41453	0.290
4	Total Hexa-Furans	32.74	4.493e5	3.763e5	2.558e4	2.086e4	1.23	NO	4.644e4	21.472	21.472	0.290
5	Total Hexa-Furans	33.08	1.803e4	1.271e4	9.034e2	6.633e2	1.36	NO	1.567e3	0.72432	0.72432	0.290
6	1,2,3,4,7,8-HxCDF	33.21	1.114e6	9.013e5	6.532e4	5.376e4	1.22	NO	1.191e5	54.189	54.189	0.253
7	1,2,3,6,7,8-HxCDF	33.33	2.698e5	2.284e5	1.732e4	1.431e4	1.21	NO	3.162e4	13.288	13.288	0.246
8	Total Hexa-Furans	33.63	6.428e3	5.874e3	3.895e2	3.264e2	1.19	NO	7.159e2	0.33100	0.33100	0.290
9	2,3,4,6,7,8-HxCDF	34.02	7.145e4	6.149e4	4.868e3	4.430e3	1.10	NO	9.298e3	4.2877	4.2877	0.286
10	1,2,3,7,8,9-HxCDF	35.01	7.714e4	6.405e4	2.366e3	2.038e3	1.16	NO	4.405e3	2.4663	2.4663	0.417
11	Total Hexa-Furans	35.03	8.373e4	7.534e4	4.199e3	3.701e3	1.13	NO	7.900e3	3.6522	3.6522	0.290

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-10.qld

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Hepta-Furans

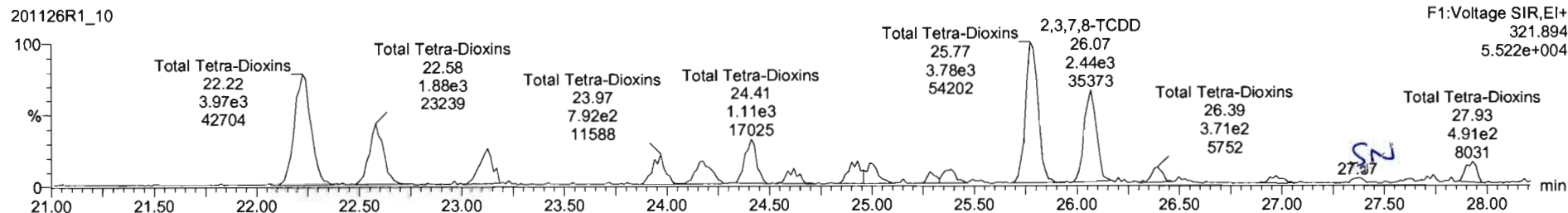
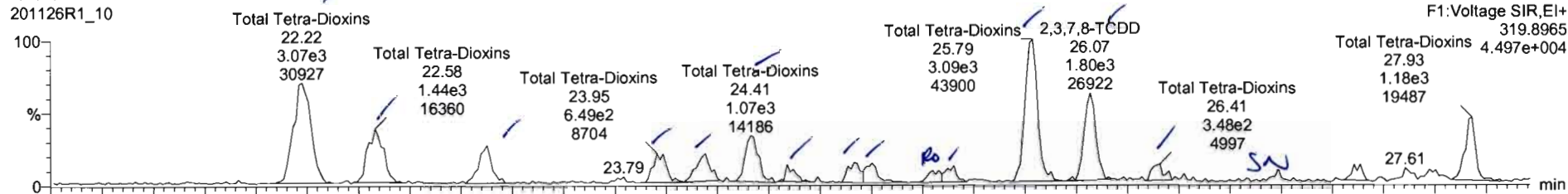
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.57	2.226e5	2.423e5	1.948e4	2.063e4	0.94	NO	4.012e4	25.384	25.384	0.338
2	Total Hepta-Furans	37.30	3.144e5	3.096e5	2.853e4	2.826e4	1.01	NO	5.679e4	41.007	41.007	0.368
3	1,2,3,4,7,8,9-HpCDF	38.63	5.554e4	6.851e4	4.336e3	4.533e3	0.96	NO	8.869e3	6.6259	6.6259	0.362

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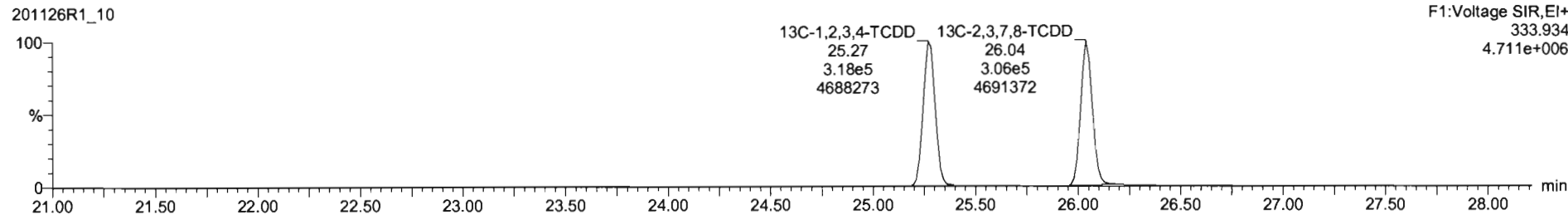
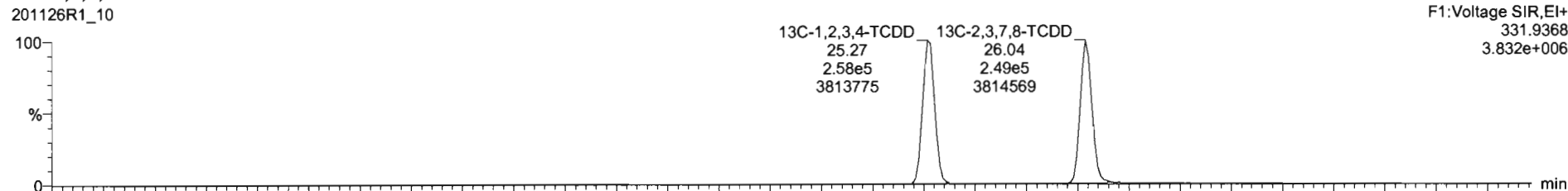
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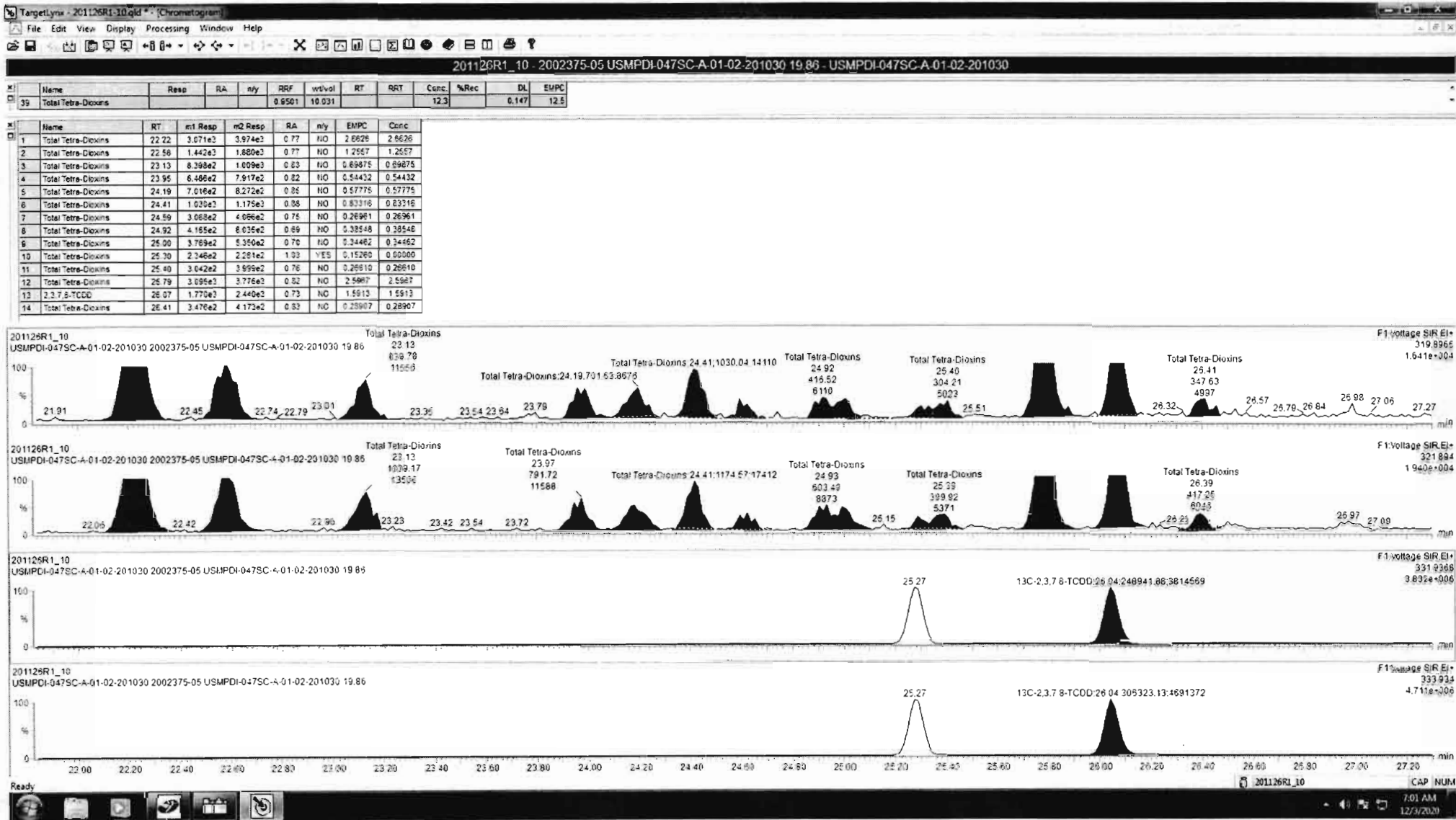
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2,3,7,8-TCDD



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





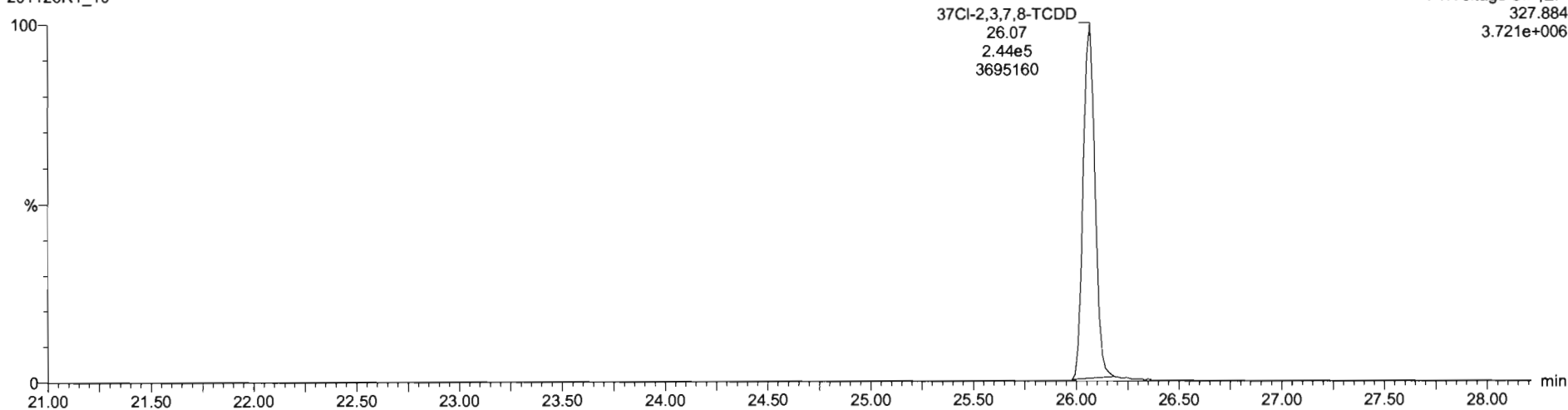
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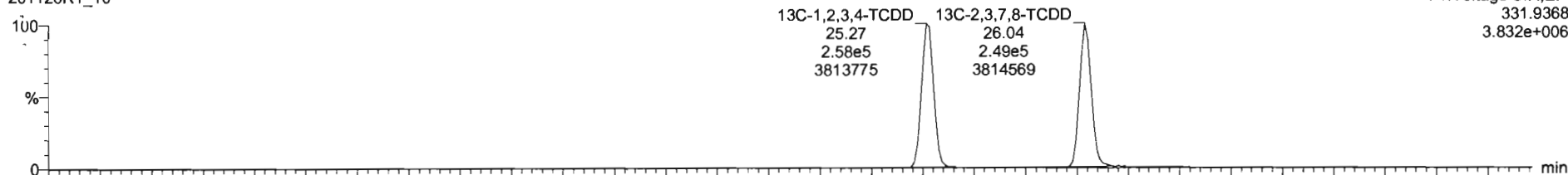
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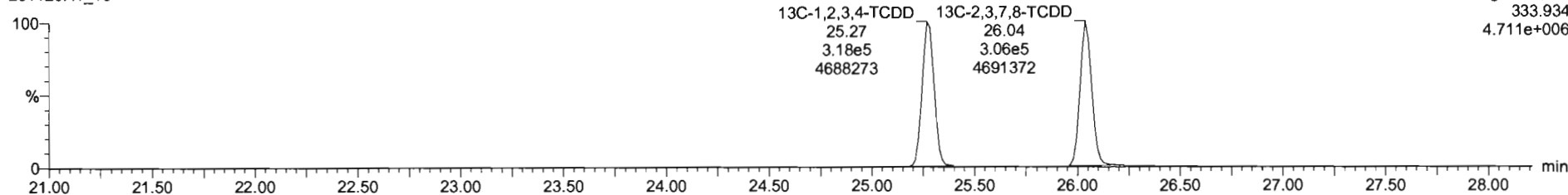


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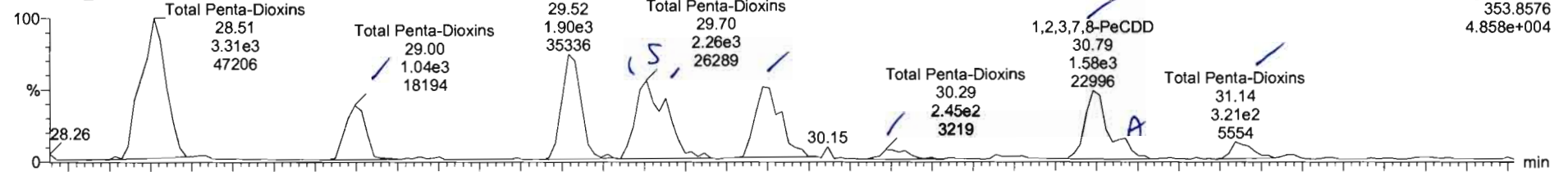
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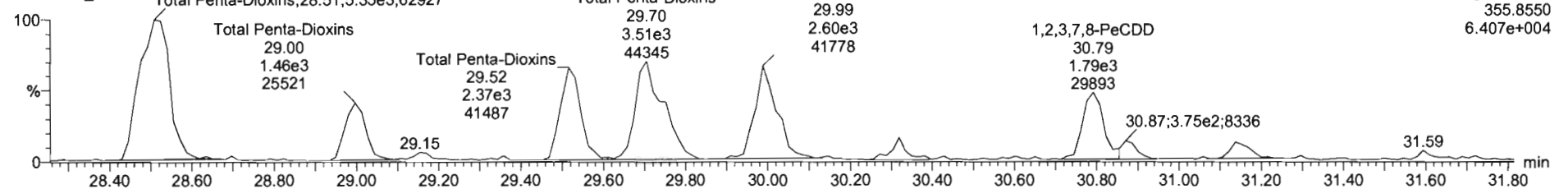
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1,2,3,7,8-PeCDD

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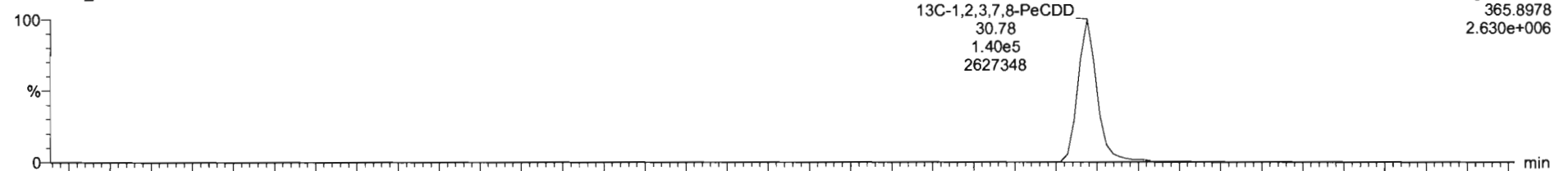


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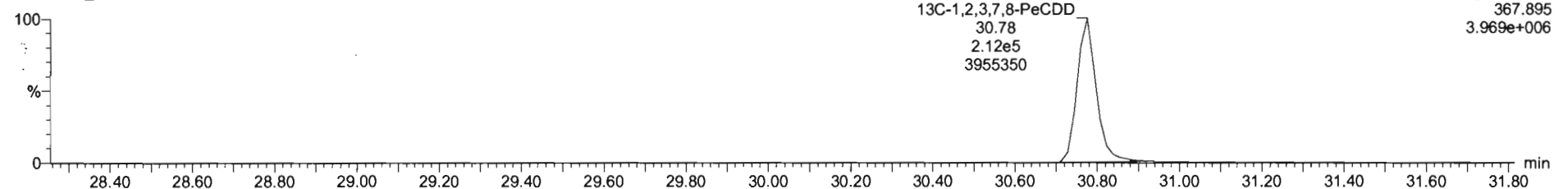


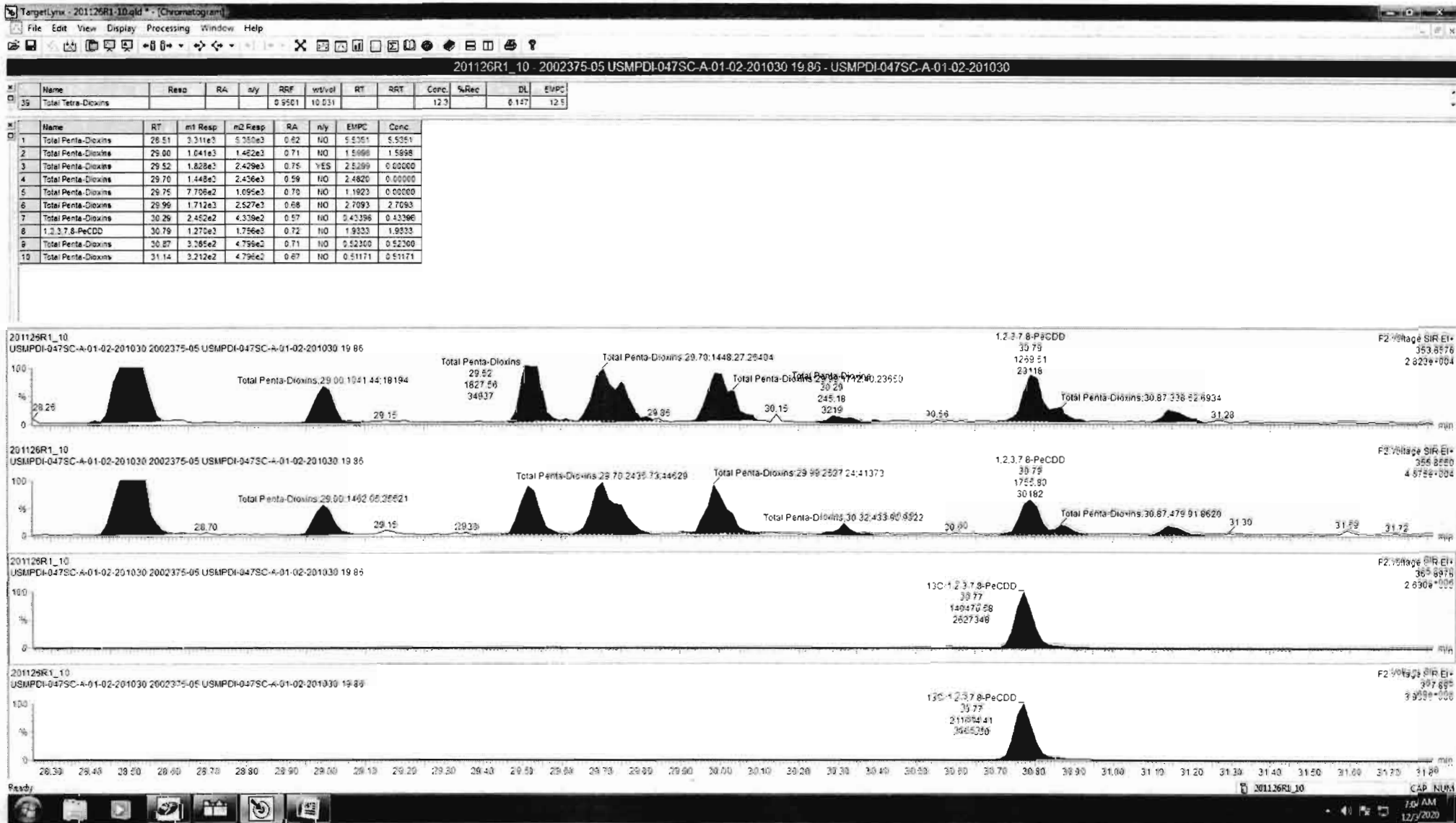
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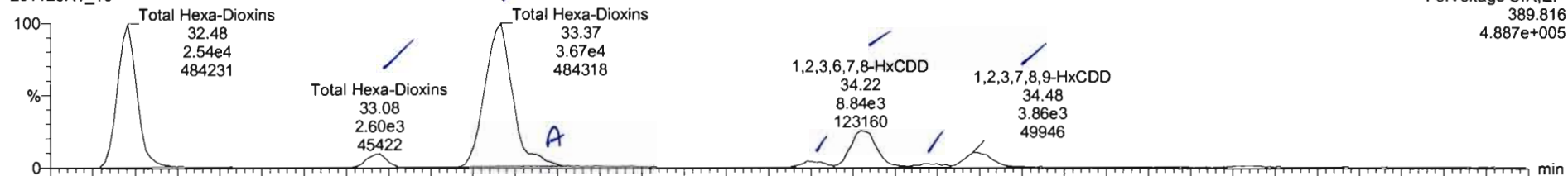
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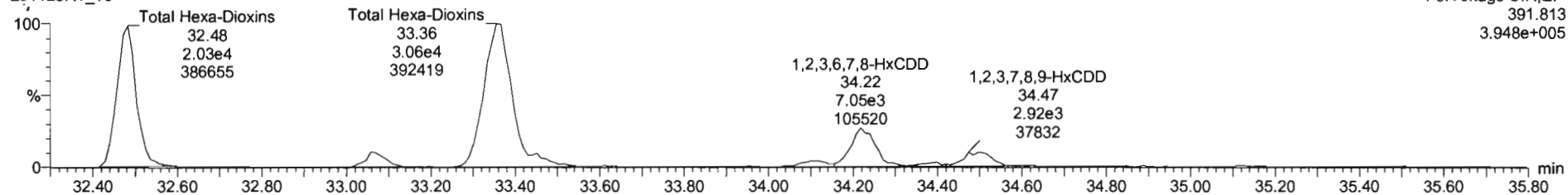
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1,2,3,4,7,8-HxCDD

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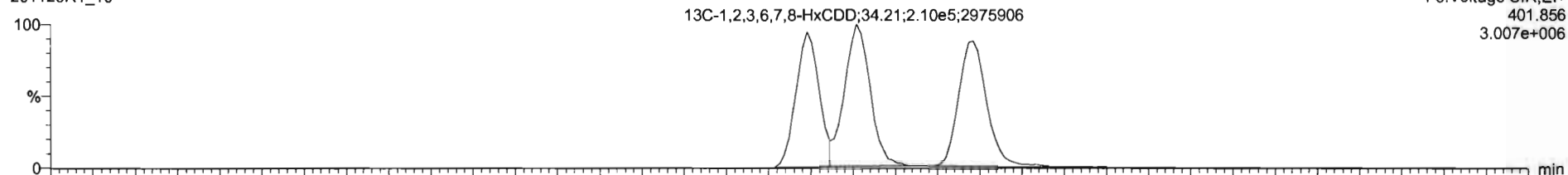


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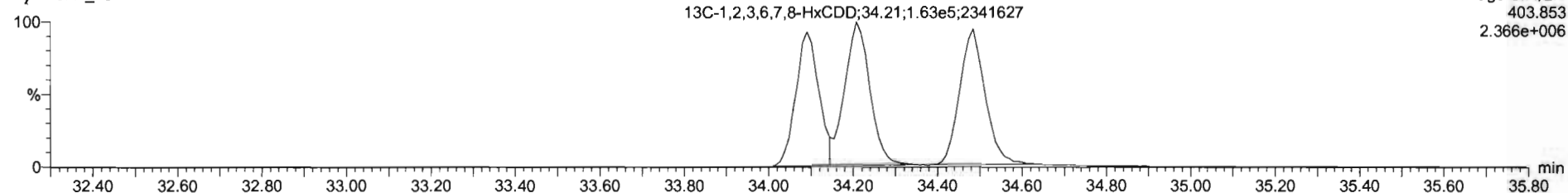


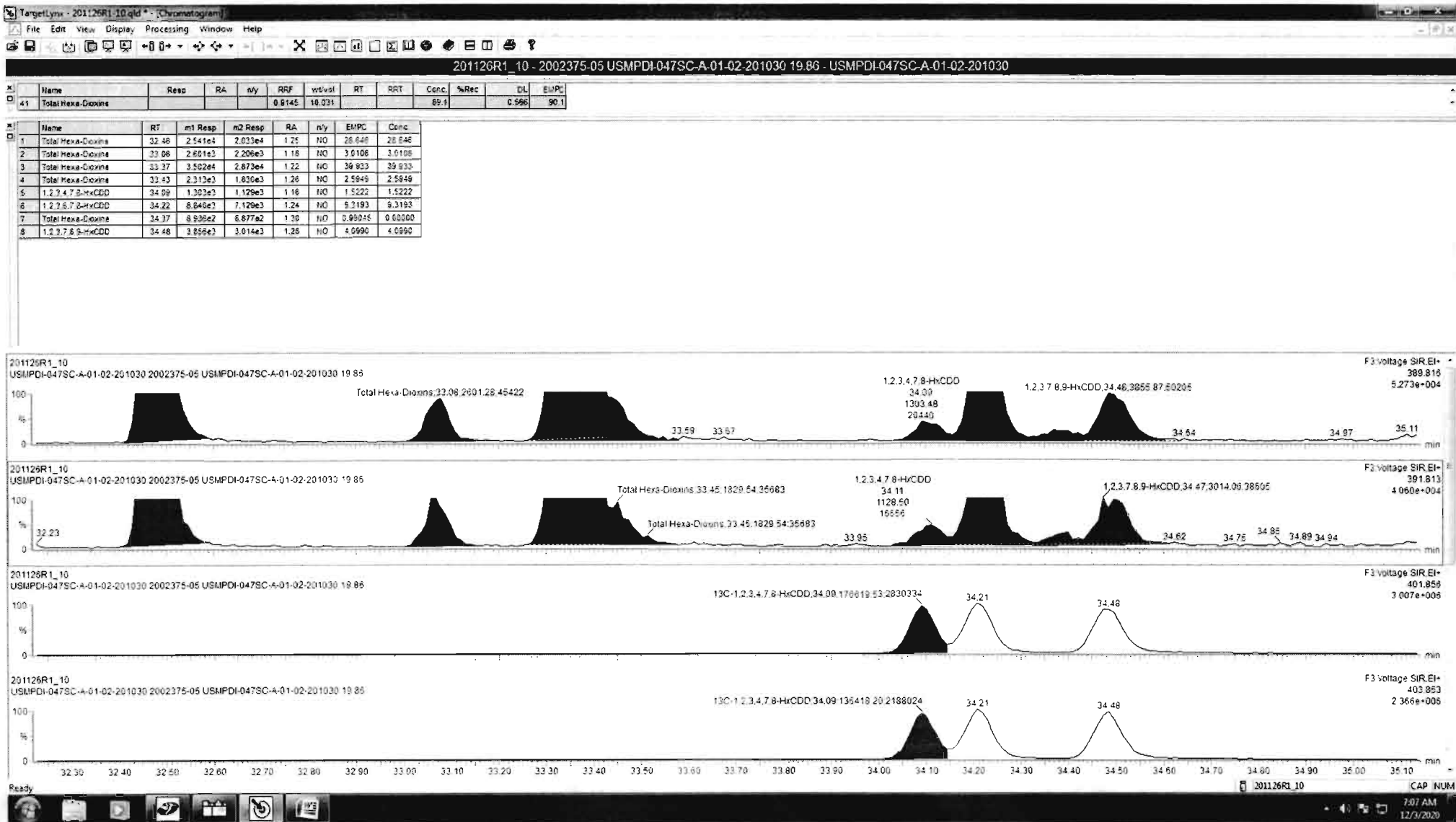
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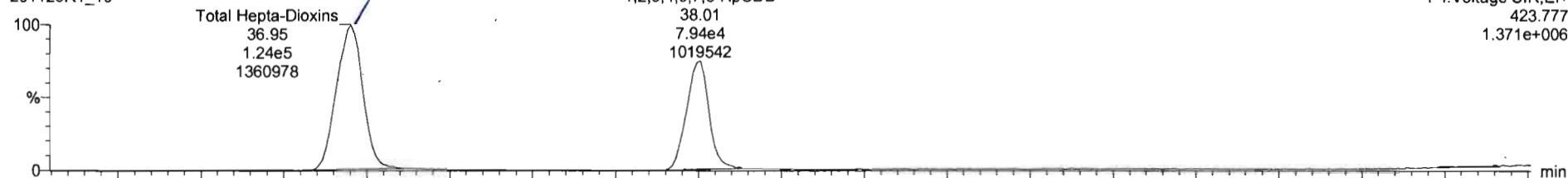
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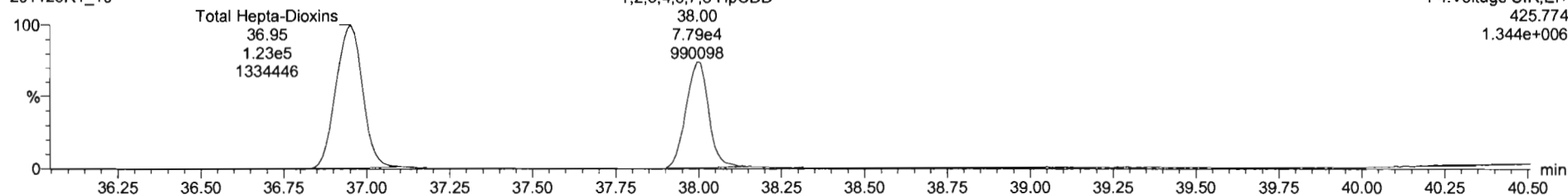
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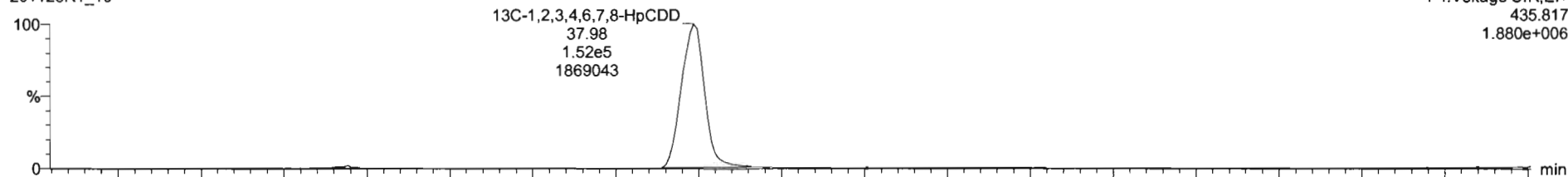


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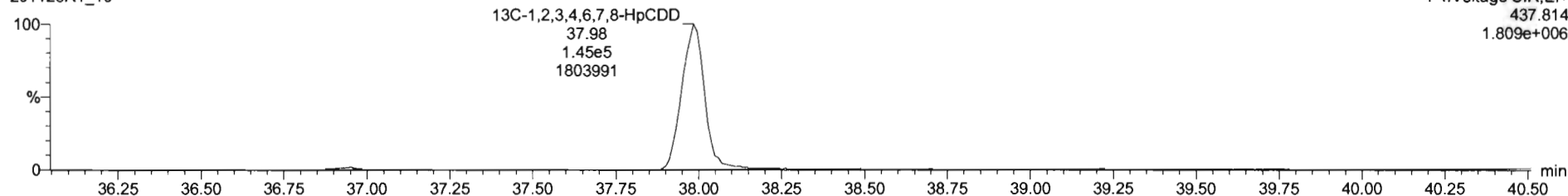


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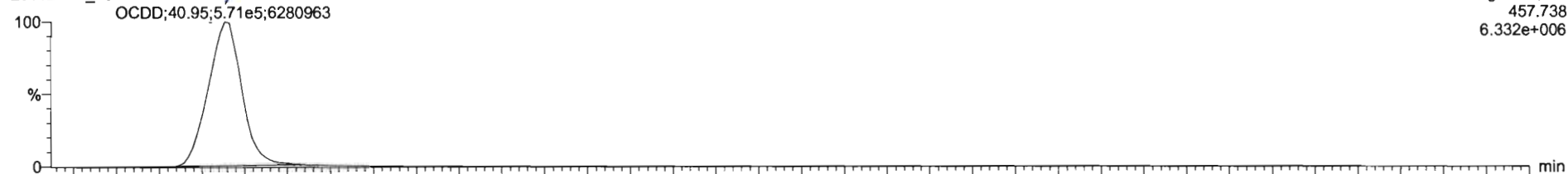
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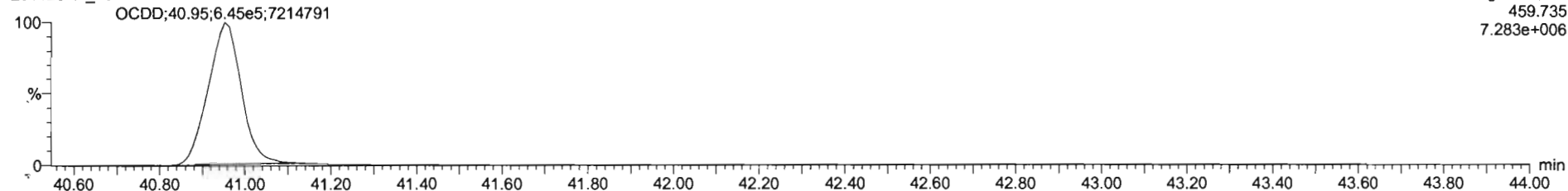
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OCDD

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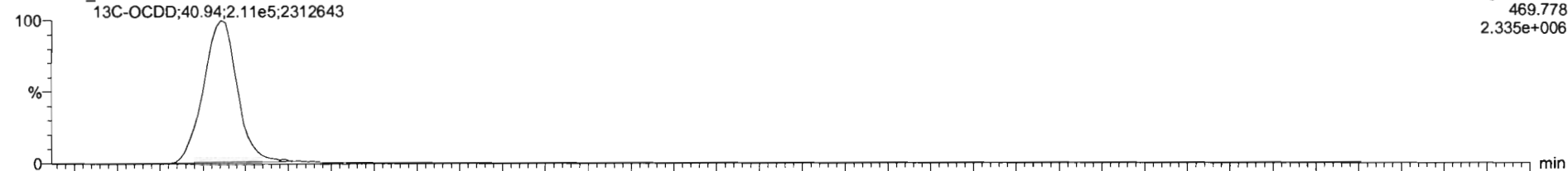


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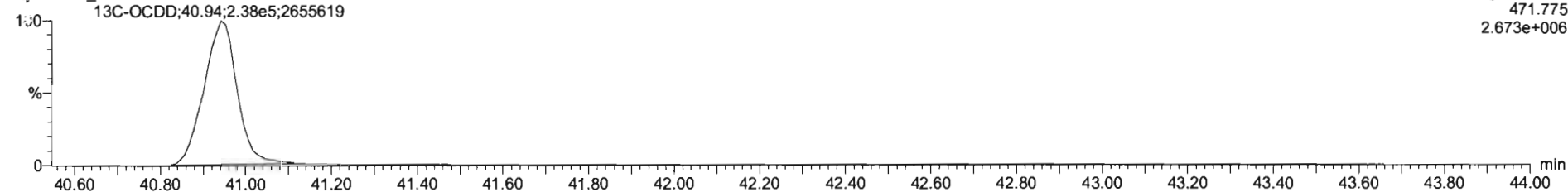


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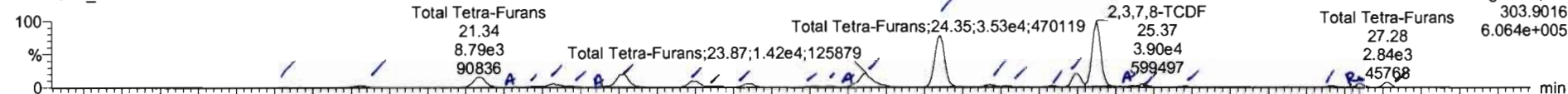
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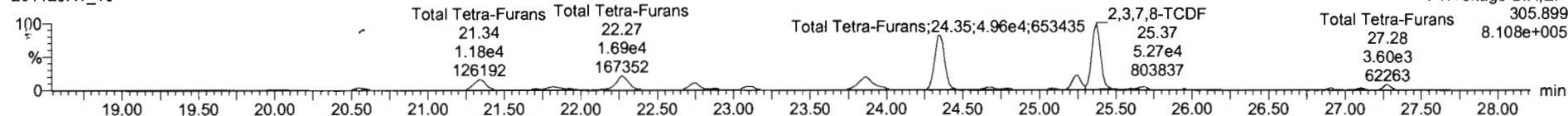
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2,3,7,8-TCDF

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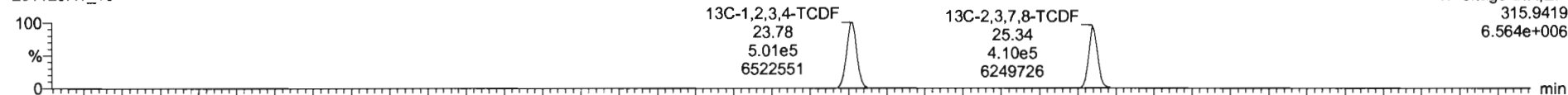


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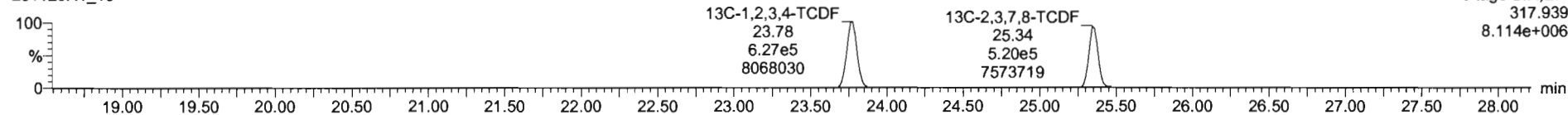


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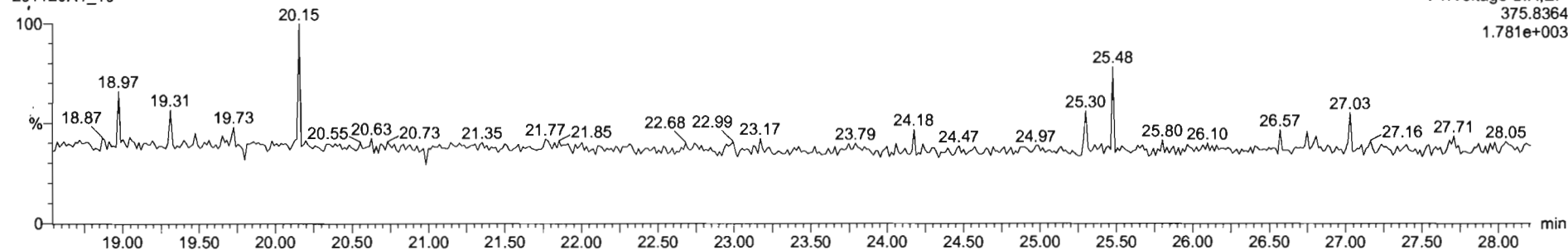


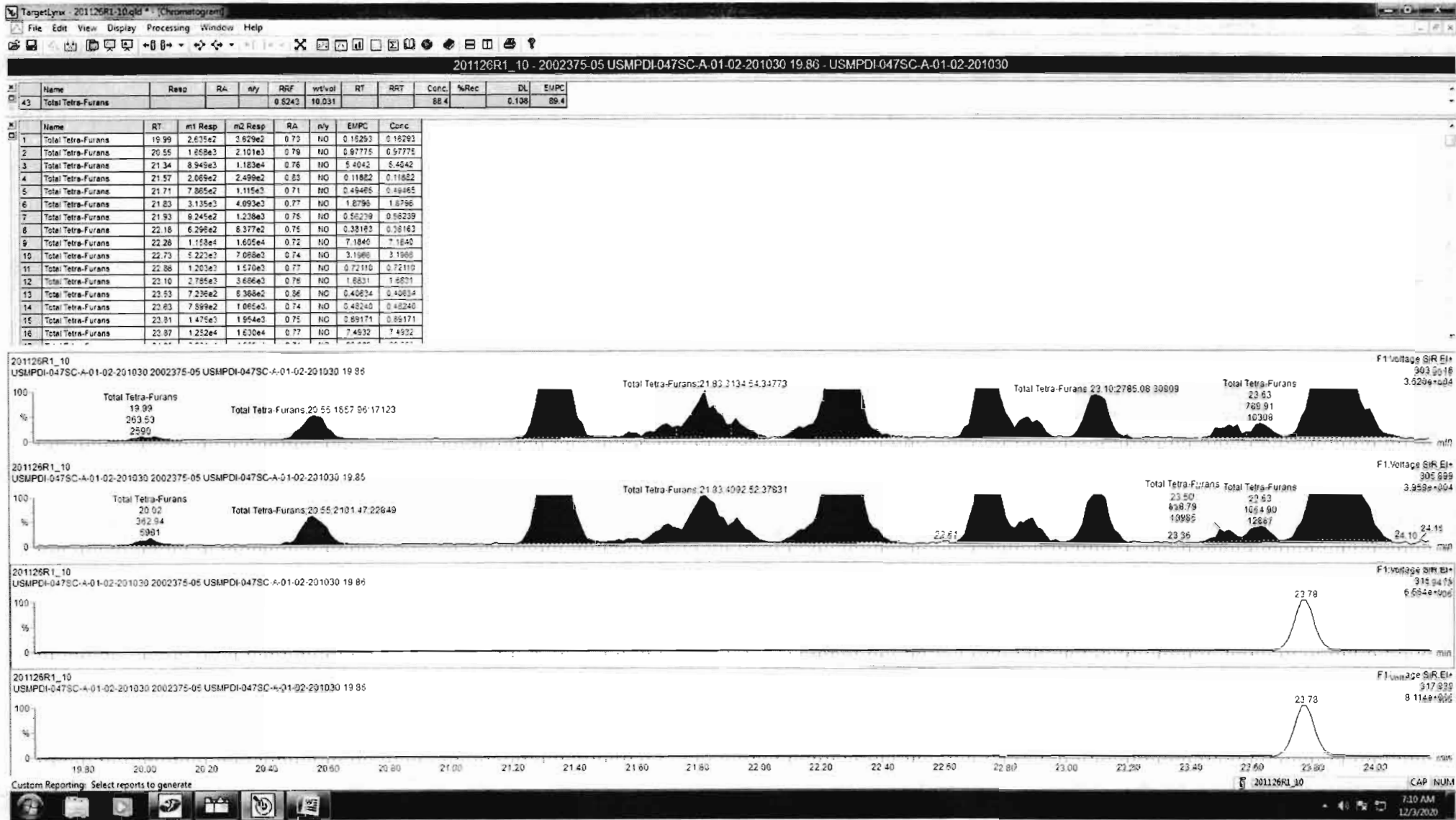
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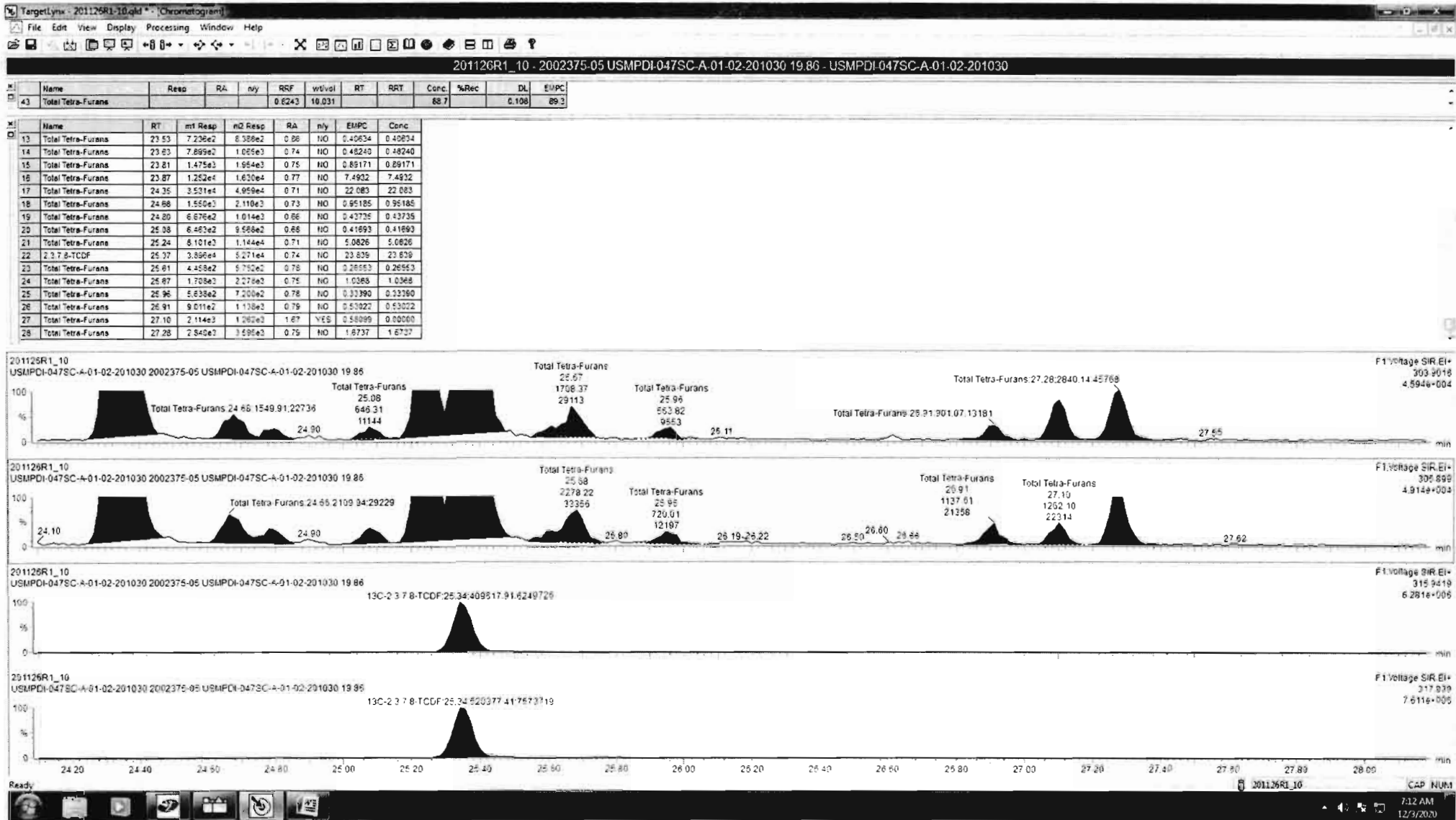


DPE1

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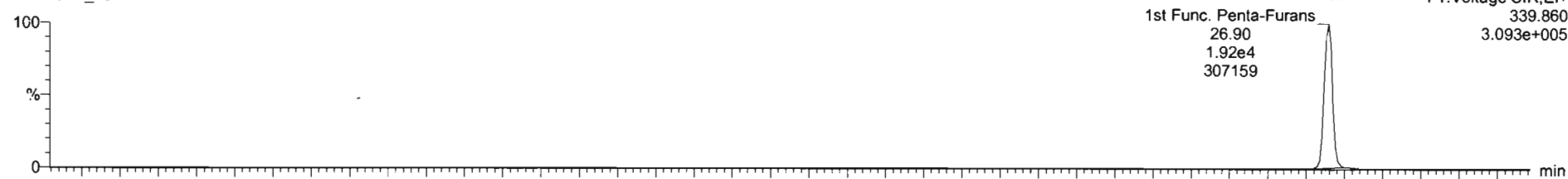
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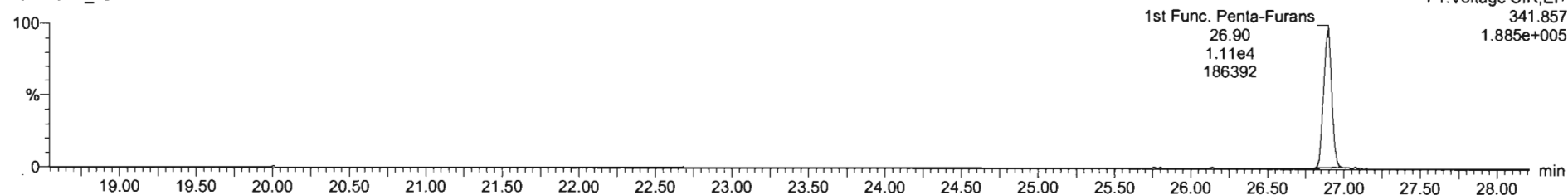
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1st Func. Penta-Furans

201126R1_10

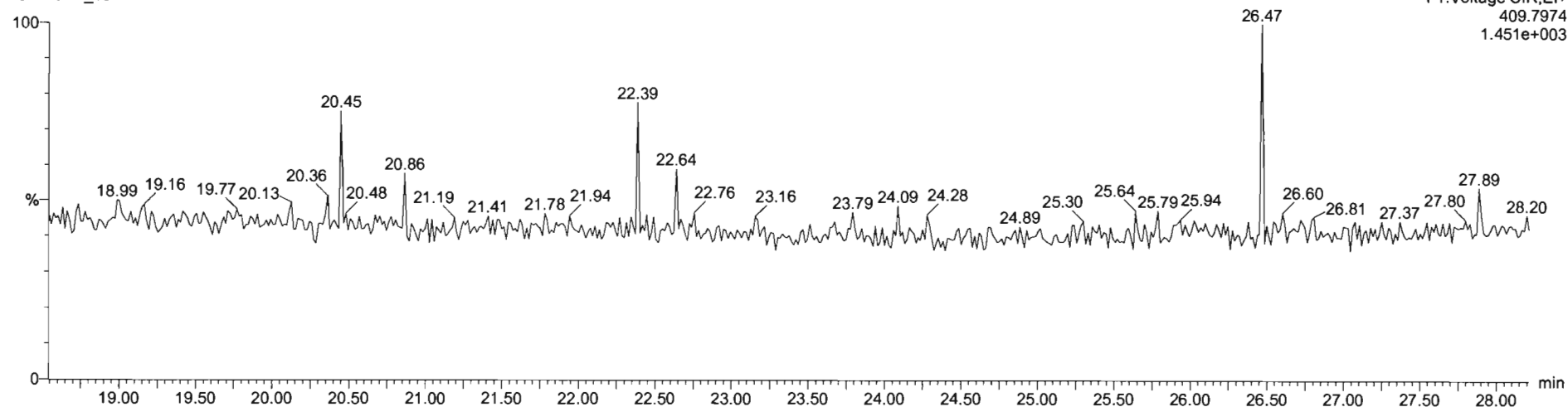


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DPE6

201126R1_10



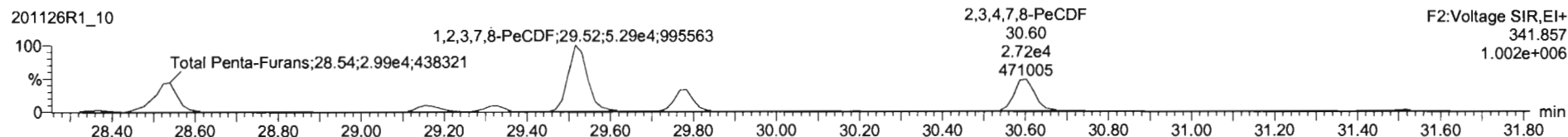
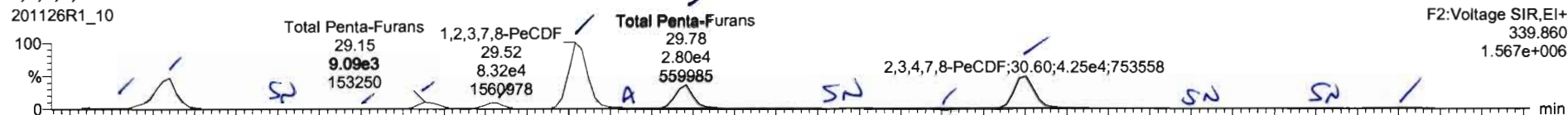
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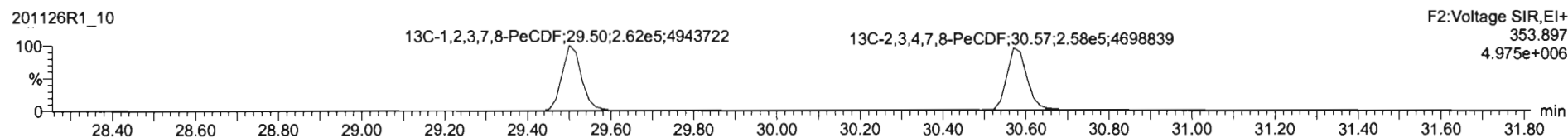
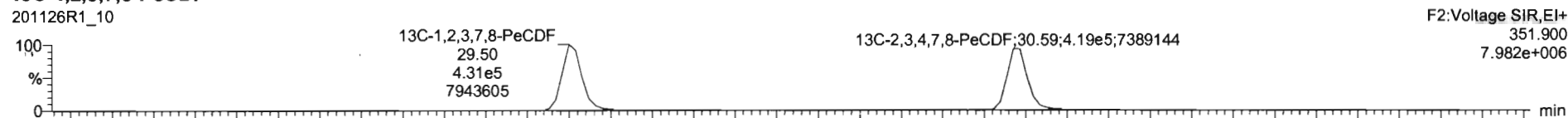
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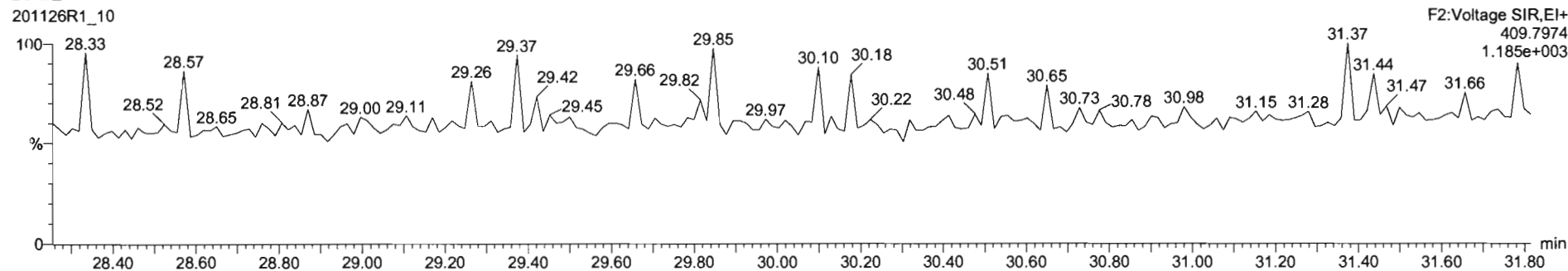
1,2,3,7,8-PeCDF

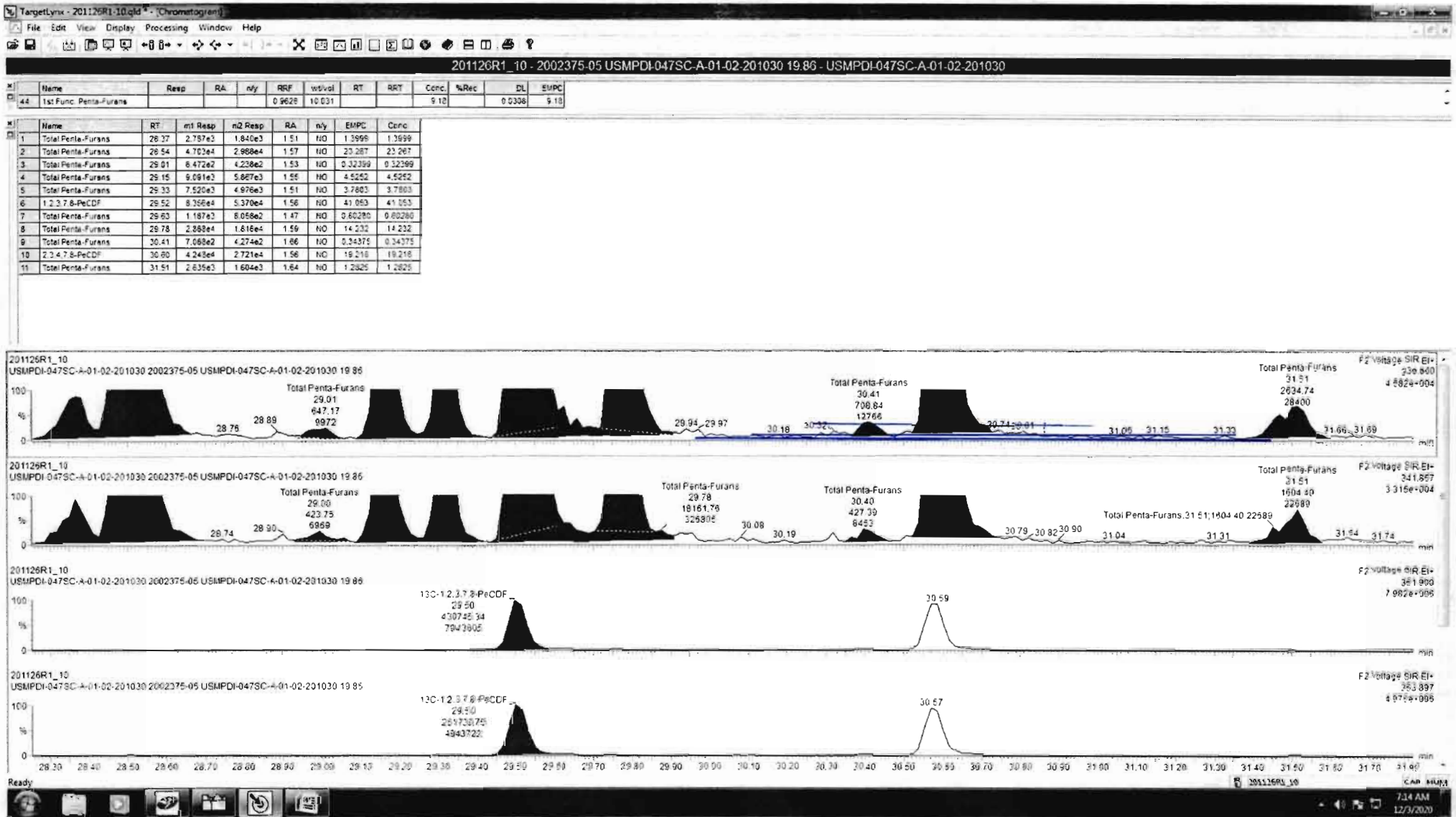


13C-1,2,3,7,8-PeCDF



DPE2



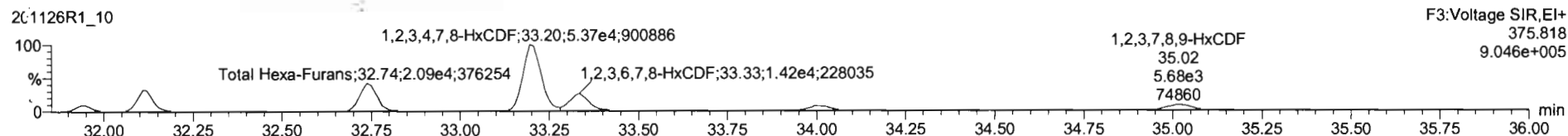
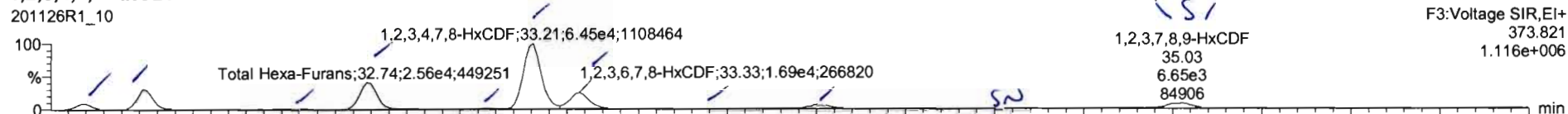


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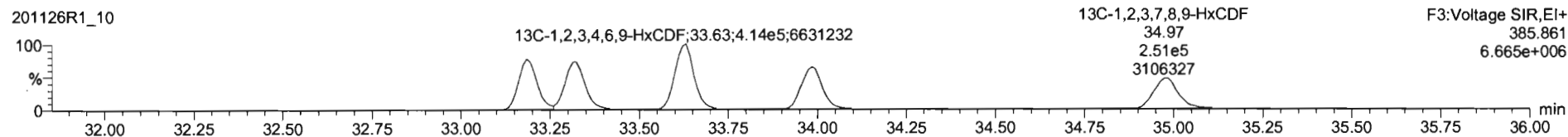
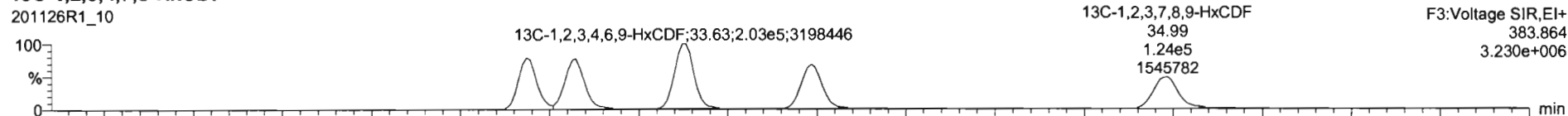
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_10, Date: 26-Nov-2020, Time: 15:20:34, ID: 2002375-05 USMPDI-047SC-A-01-02-201030 19.86, Description: USMPDI-047SC-A-01-02-201030

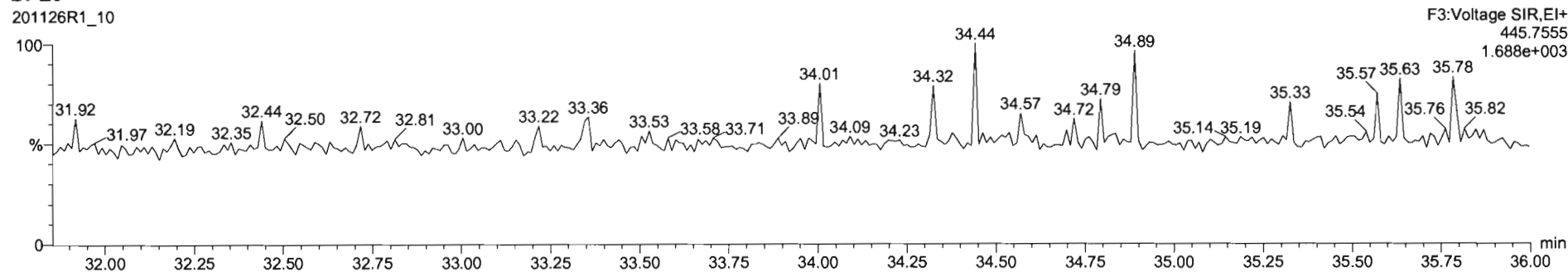
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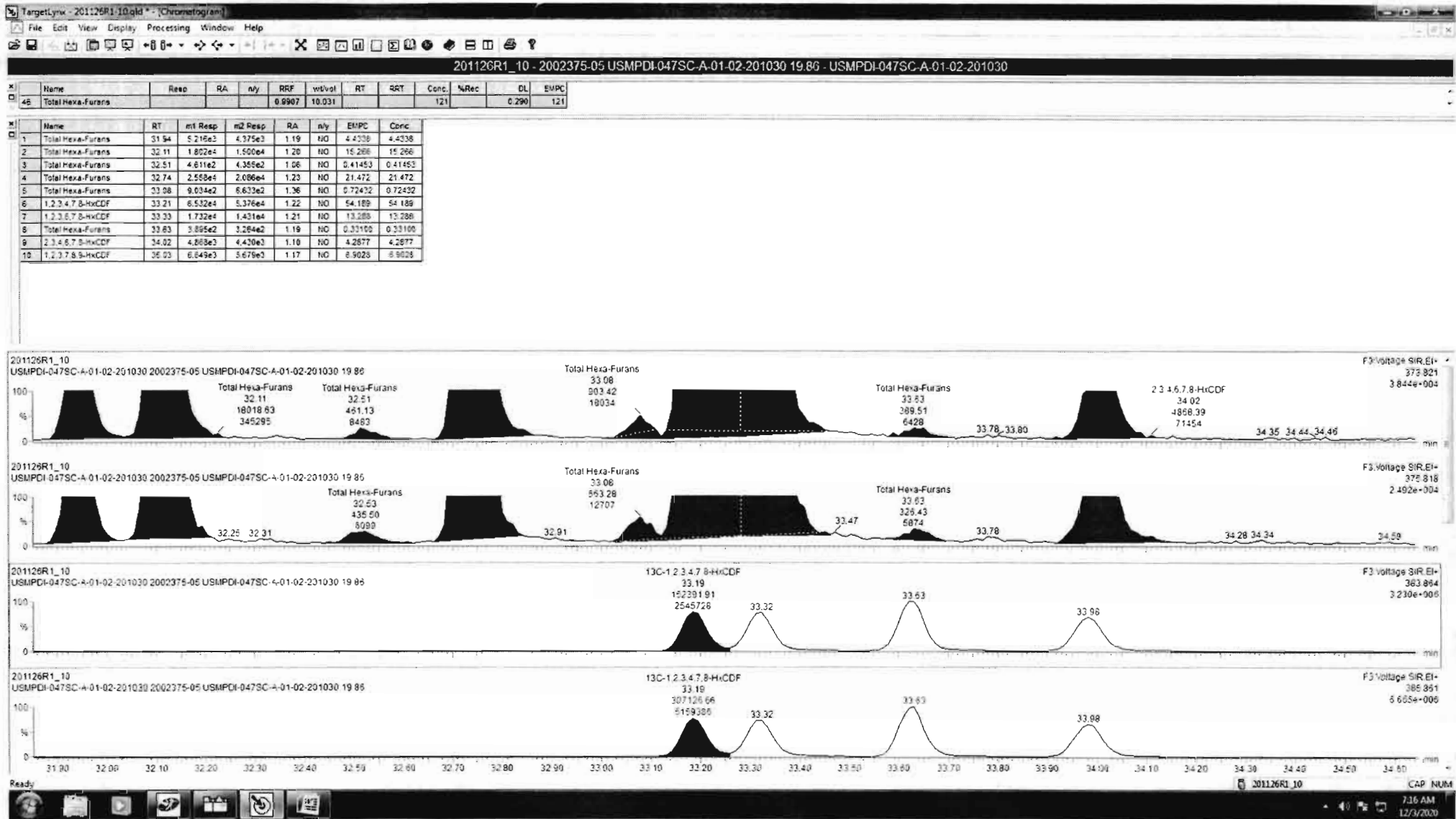


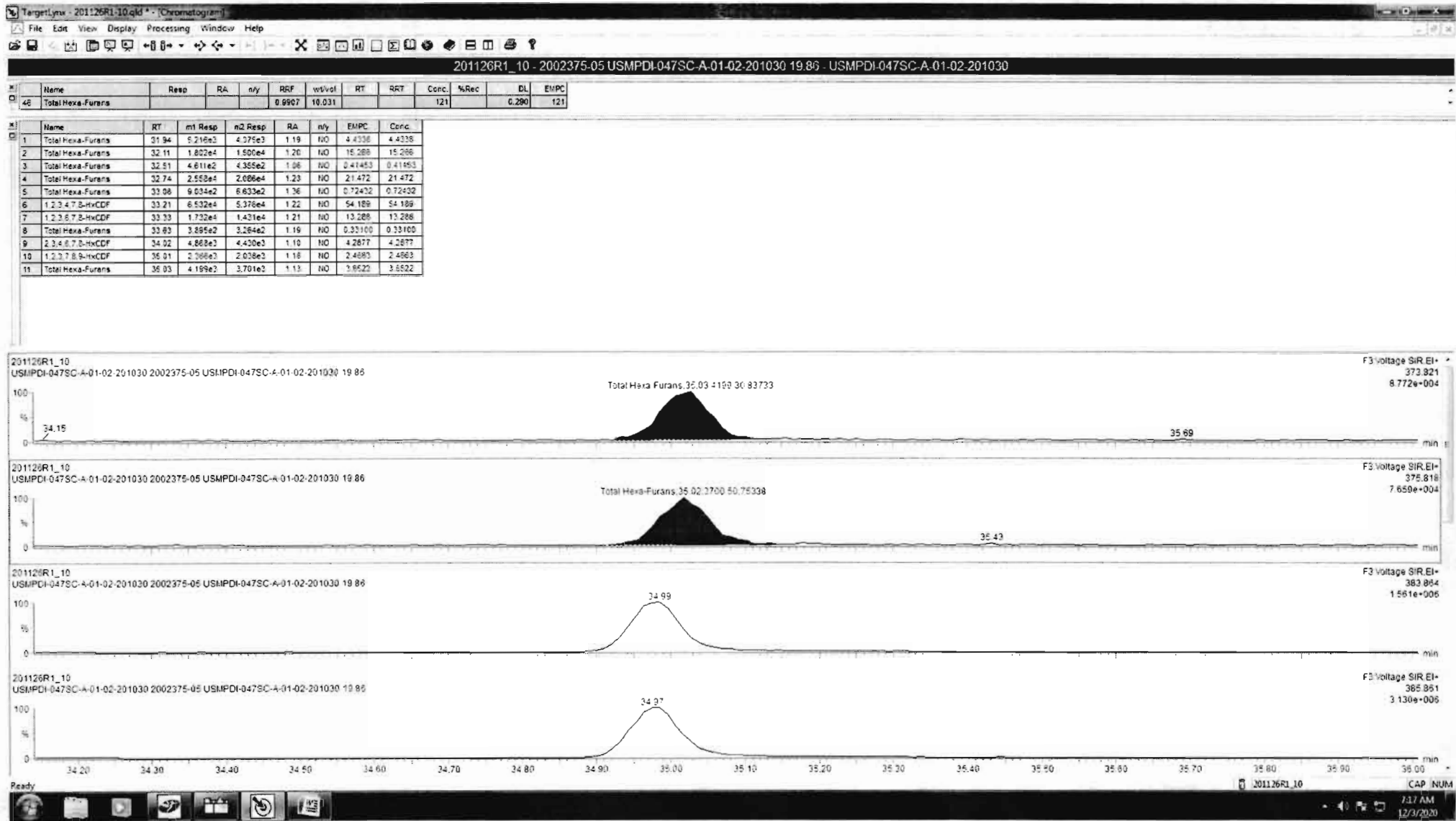
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DPE3





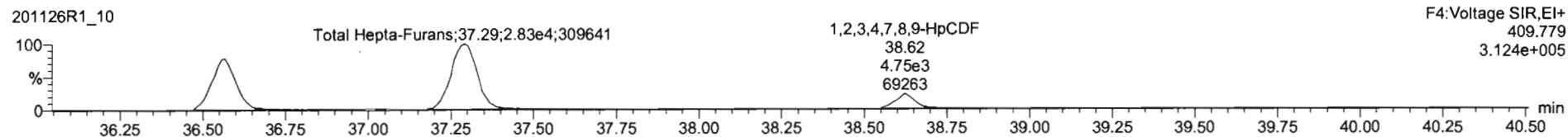
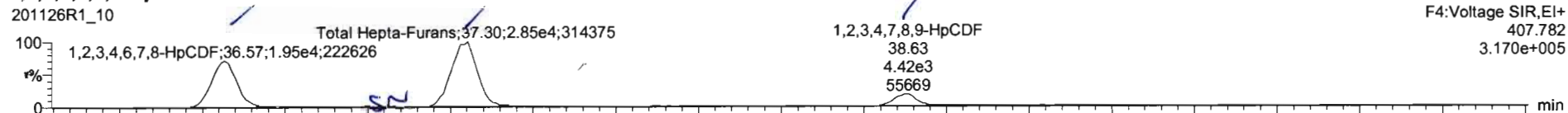


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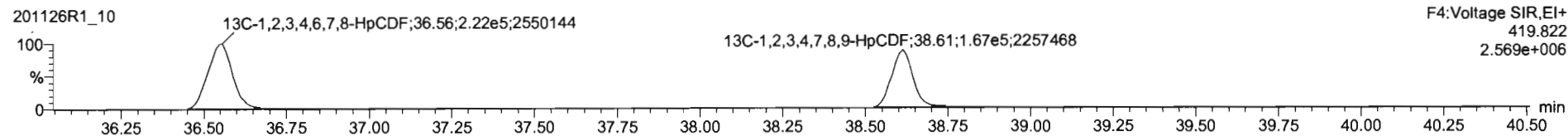
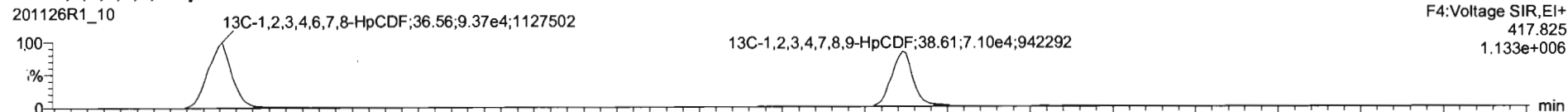
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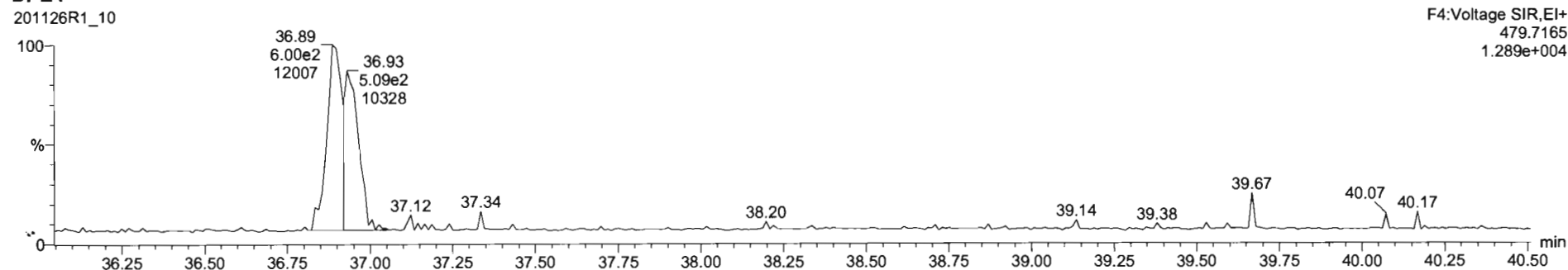
1,2,3,4,6,7,8-HpCDF

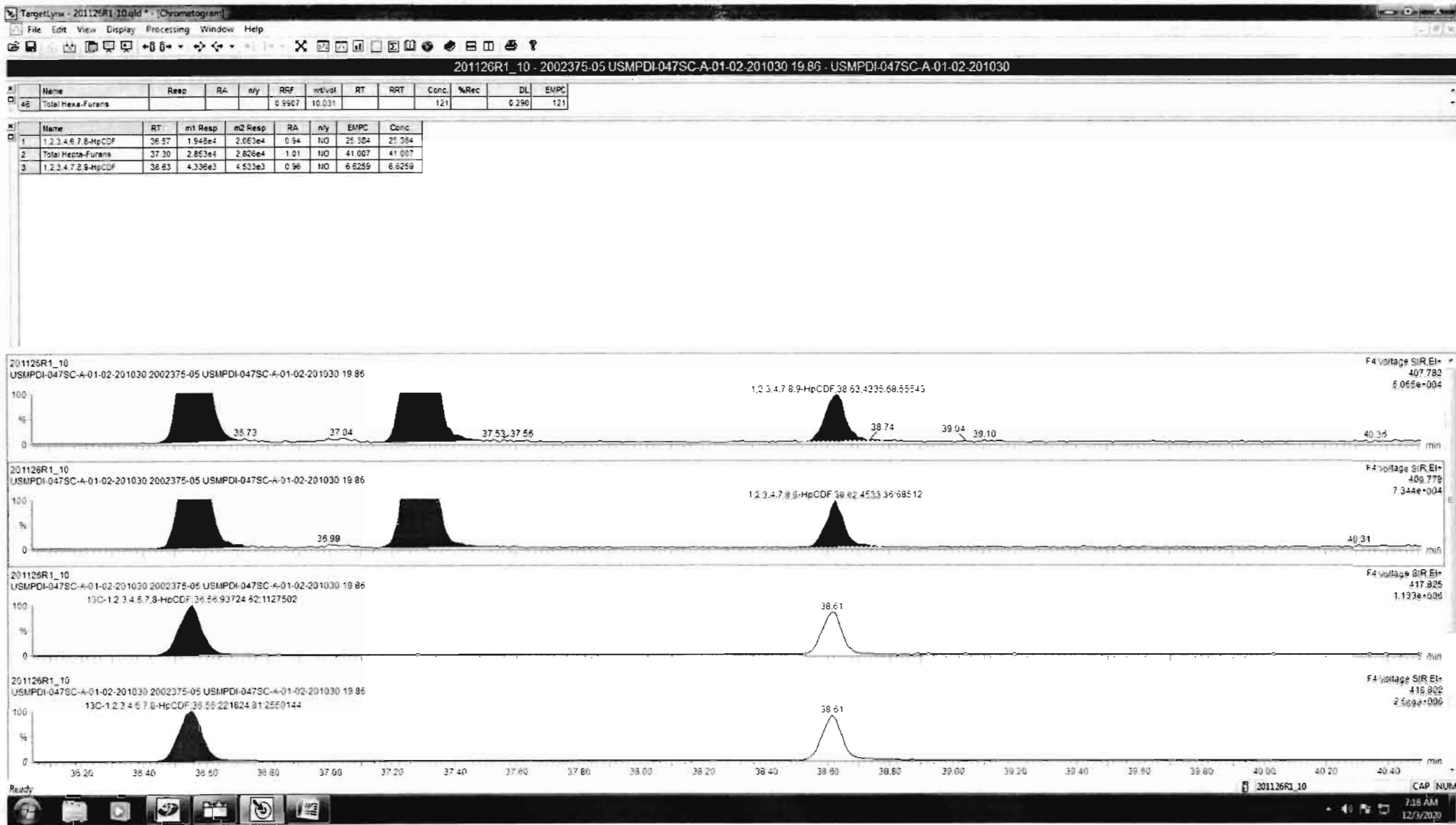


13C-1,2,3,4,6,7,8-HpCDF



DPE4



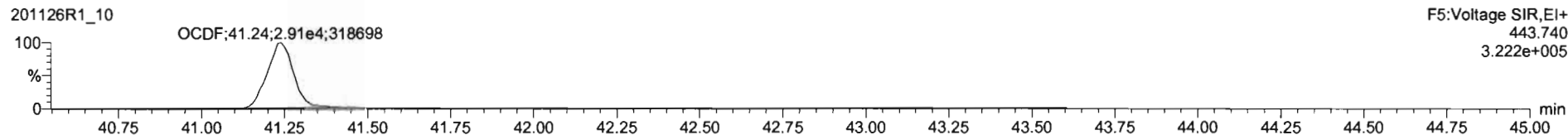
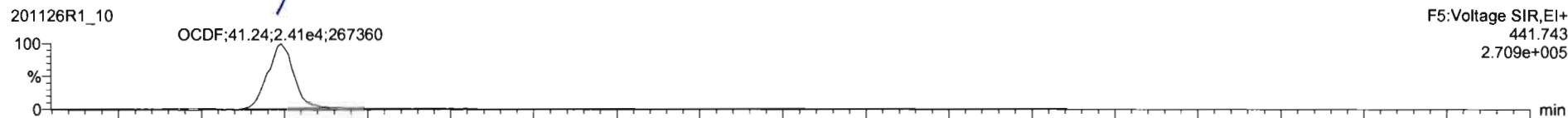


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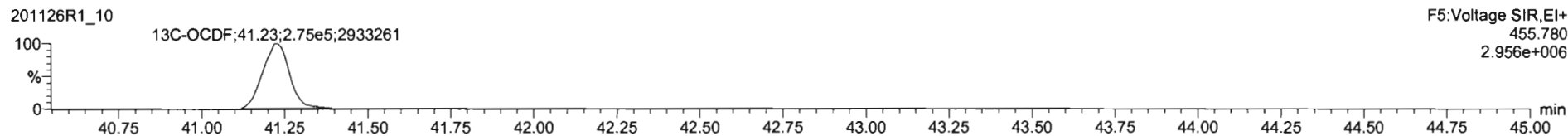
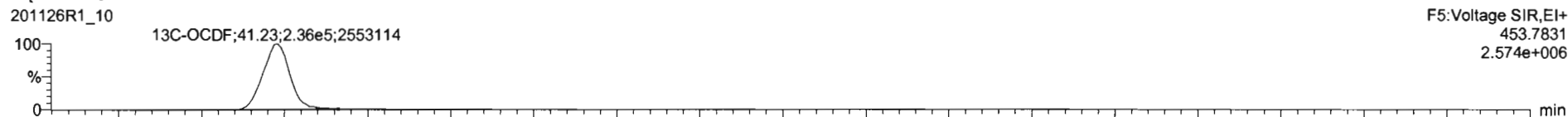
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Name: 201126R1_10, Date: 26-Nov-2020, Time: 15:20:34, ID: 2002375-05 USMPDI-047SC-A-01-02-201030 19.86, Description: USMPDI-047SC-A-01-02-201030

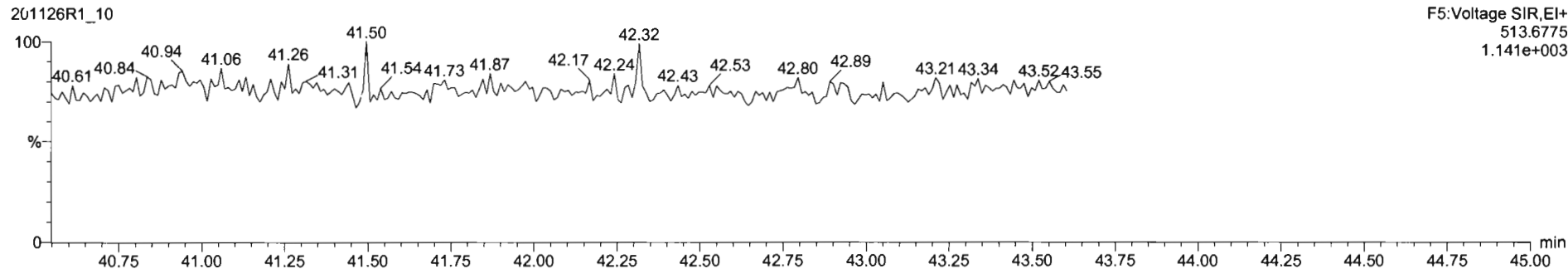
OCDF



13C-OCDF



DPE5

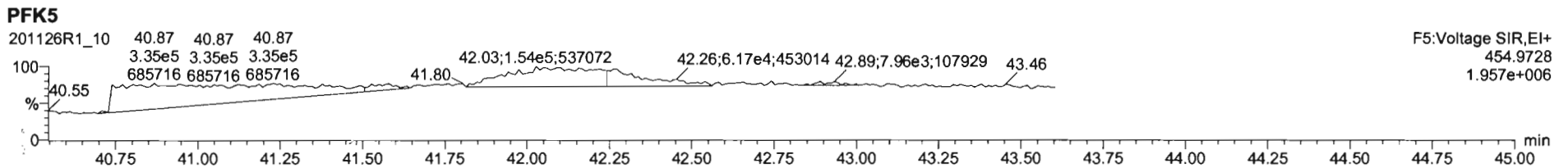
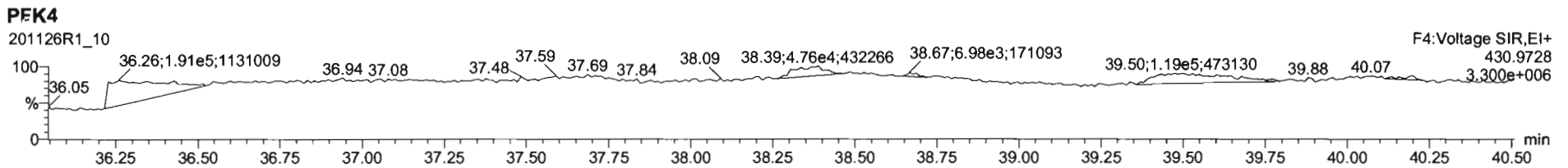
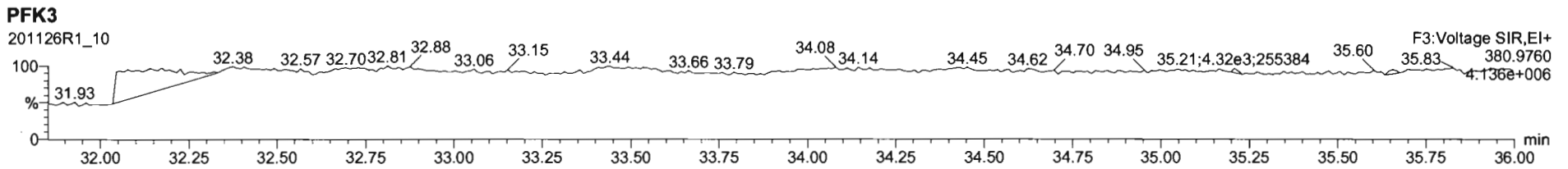
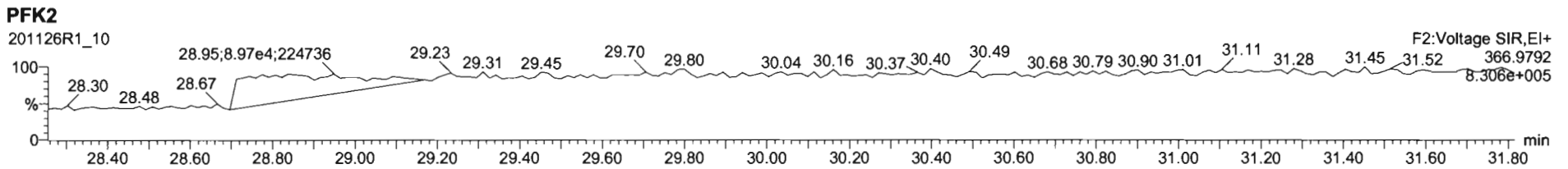
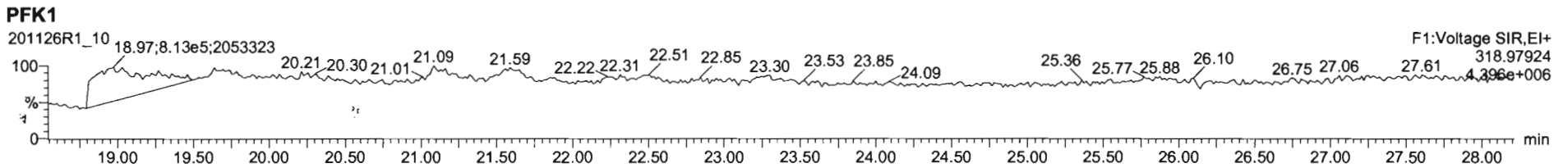


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Name: 201126R1_10, Date: 26-Nov-2020, Time: 15:20:34, ID: 2002375-05 USMPDI-047SC-A-01-02-201030 19.86, Description: USMPDI-047SC-A-01-02-201030



Dataset: U:\VG12.PRO\Results\201126R1\201126R1-11.qld

Last Altered: Thursday, December 03, 2020 07:39:30 Pacific Standard Time
Printed: Thursday, December 03, 2020 07:40:03 Pacific Standard Time

GRB 12/03/2020

Method: Untitled 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

CT 12/04/2020

Name: 201126R1_11, Date: 26-Nov-2020, Time: 16:05:26, ID: 2002375-06 USMPDI-047SC-A-02-03-201030 18.39, Description: USMPDI-047SC-A-02-03-201030

#	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	1.09e3	0.45	YES	0.950	10.062	26.082	26.07	1.001	1.001	0.40806		0.102	0.289
2	2 1,2,3,7,8-PeCDD	1.12e3	0.70	NO	0.885	10.062	30.800	30.79	1.000	1.000	0.73648		0.195	0.736
3	3 1,2,3,4,7,8-HxCDD	1.20e3	1.15	NO	1.02	10.062	34.111	34.11	1.000	1.000	0.73911		0.314	0.739
4	4 1,2,3,6,7,8-HxCDD	8.61e3	1.19	NO	0.915	10.062	34.228	34.23	1.000	1.000	4.9825		0.316	4.98
5	5 1,2,3,7,8,9-HxCDD	3.68e3	1.07	NO	0.934	10.062	34.516	34.53	1.000	1.001	2.1967		0.351	2.20
6	6 1,2,3,4,6,7,8-HpCDD	1.23e5	1.02	NO	0.870	10.062	38.006	38.02	1.000	1.000	95.250		1.21	95.3
7	7 OCDD	1.05e6	0.88	NO	0.872	10.062	40.974	40.99	1.000	1.000	1024.2		1.22	1020
8	8 2,3,7,8-TCDF	4.00e4	0.73	NO	0.824	10.062	25.366	25.39	1.000	1.001	10.562		0.112	10.6
9	9 1,2,3,7,8-PeCDF	3.70e4	1.62	NO	0.963	10.062	29.525	29.53	1.000	1.001	11.466		0.269	11.5
10	10 2,3,4,7,8-PeCDF	2.48e4	1.51	NO	1.07	10.062	30.587	30.60	1.000	1.000	7.2028		0.248	7.20
11	11 1,2,3,4,7,8-HxCDF	4.31e4	1.23	NO	0.953	10.062	33.206	33.22	1.000	1.000	19.675		0.170	19.7
12	12 1,2,3,6,7,8-HxCDF	1.22e4	1.19	NO	1.01	10.062	33.334	33.36	1.000	1.001	5.1199		0.165	5.12
13	13 2,3,4,6,7,8-HxCDF	3.66e3	1.13	NO	0.991	10.062	34.008	34.03	1.000	1.001	1.6531		0.194	1.65
14	14 1,2,3,7,8,9-HxCDF	1.16e3	1.31	NO	0.951	10.062	35.006	35.02	1.000	1.000	0.64277		0.299	0.643
15	15 1,2,3,4,6,7,8-HpCDF	3.12e4	0.98	NO	0.999	10.062	36.572	36.59	1.000	1.001	18.982		0.290	19.0
16	16 1,2,3,4,7,8,9-HpCDF	5.50e3	0.99	NO	1.12	10.062	38.634	38.65	1.000	1.000	3.9058		0.296	3.91
17	17 OCDF	4.90e4	0.83	NO	0.868	10.062	41.270	41.27	1.000	1.000	41.200		0.290	41.2
18	18 13C-2,3,7,8-TCDD	5.63e5	0.81	NO	1.11	10.062	26.044	26.05	1.030	1.030	193.22	97.2	0.394	
19	19 13C-1,2,3,7,8-PeCDD	3.41e5	0.66	NO	0.859	10.062	30.757	30.79	1.216	1.218	151.31	76.1	0.423	
20	20 13C-1,2,3,4,7,8-HxCDD	3.17e5	1.30	NO	0.700	10.062	34.111	34.10	1.014	1.014	163.56	82.3	0.491	
21	21 13C-1,2,3,6,7,8-HxCDD	3.75e5	1.30	NO	0.833	10.062	34.249	34.22	1.018	1.017	162.67	81.8	0.413	
22	22 13C-1,2,3,7,8,9-HxCDD	3.57e5	1.30	NO	0.762	10.062	34.491	34.51	1.025	1.026	168.89	85.0	0.451	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.94e5	1.06	NO	0.650	10.062	37.973	38.01	1.129	1.130	163.48	82.2	0.820	
24	24 13C-OCDD	4.70e5	0.90	NO	0.539	10.062	40.937	40.97	1.217	1.218	314.18	79.0	0.725	
25	25 13C-2,3,7,8-TCDF	9.14e5	0.78	NO	0.981	10.062	25.366	25.36	1.003	1.003	181.99	91.6	0.317	
26	26 13C-1,2,3,7,8-PeCDF	6.67e5	1.63	NO	0.792	10.062	29.490	29.52	1.166	1.167	164.60	82.8	0.583	
27	27 13C-2,3,4,7,8-PeCDF	6.41e5	1.63	NO	0.778	10.062	30.547	30.59	1.208	1.210	161.02	81.0	0.593	
28	28 13C-1,2,3,4,7,8-HxCDF	4.56e5	0.51	NO	0.954	10.062	33.202	33.21	0.987	0.987	172.68	86.9	0.739	
29	29 13C-1,2,3,6,7,8-HxCDF	4.69e5	0.51	NO	1.01	10.062	33.333	33.33	0.991	0.991	168.16	84.6	0.701	
30	30 13C-2,3,4,6,7,8-HxCDF	4.44e5	0.50	NO	0.921	10.062	34.003	34.01	1.011	1.011	173.89	87.5	0.765	
31	31 13C-1,2,3,7,8,9-HxCDF	3.78e5	0.52	NO	0.803	10.062	34.999	35.01	1.040	1.041	169.60	85.3	0.877	

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-11.qld

Last Altered: Thursday, December 03, 2020 07:39:30 Pacific Standard Time

Printed: Thursday, December 03, 2020 07:40:03 Pacific Standard Time

Name: 201126R1_11, Date: 26-Nov-2020, Time: 16:05:26, ID: 2002375-06 USMPDI-047SC-A-02-03-201030 18.39, Description: USMPDI-047SC-A-02-03-201030

#	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	3.27e5	0.43	NO	0.735	10.062	36.567	36.57	1.087	1.087	160.51	80.7	0.717	
33	13C-1,2,3,4,7,8,9-HpCDF	2.49e5	0.42	NO	0.568	10.062	38.602	38.63	1.147	1.148	158.36	79.7	0.929	
34	13C-OCDF	5.44e5	0.89	NO	0.629	10.062	41.219	41.26	1.225	1.226	312.12	78.5	0.650	
35	37Cl-2,3,7,8-TCDD	2.74e5			1.09	10.062	26.044	26.07	1.030	1.031	95.767	120	0.141	
36	13C-1,2,3,4-TCDD	5.22e5	0.83	NO	1.00	10.062	25.370	25.28	1.000	1.000	198.78	100	0.437	
37	13C-1,2,3,4-TCDF	1.02e6	0.80	NO	1.00	10.062	23.870	23.78	1.000	1.000	198.78	100	0.311	
38	13C-1,2,3,4,6,9-HxCDF	5.51e5	0.49	NO	1.00	10.062	33.710	33.64	1.000	1.000	198.78	100	0.705	
39	39 Total Tetra-Dioxins				0.950	10.062	24.620		0.000		2.8697		0.102	3.16
40	40 Total Penta-Dioxins				0.885	10.062	29.960		0.000		4.6704		0.195	7.11
41	41 Total Hexa-Dioxins				0.915	10.062	33.635		0.000		41.495		0.341	41.5
42	42 Total Hepta-Dioxins				0.870	10.062	37.640		0.000		212.14		1.21	212
43	43 Total Tetra-Furans				0.824	10.062	23.610		0.000		34.859		0.112	37.7
44	44 1st Func. Penta-Furans				0.963	10.062	26.930		0.000		4.9052		0.0282	4.91
45	45 Total Penta-Furans				0.963	10.062	29.275		0.000		36.485		0.272	36.5
46	46 Total Hexa-Furans				0.991	10.062	33.555		0.000		48.530		0.199	48.5
47	47 Total Hepta-Furans				0.999	10.062	37.835		0.000		47.337		0.309	47.3

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-11.qld

Last Altered: Thursday, December 03, 2020 07:39:30 Pacific Standard Time

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Method: Untitled 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_11, Date: 26-Nov-2020, Time: 16:05:26, ID: 2002375-06 USMPDI-047SC-A-02-03-201030 18.39, Description: USMPDI-047SC-A-02-03-201030

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.24	1.198e4	1.248e4	1.009e3	1.183e3	0.85	NO	2.192e3	0.81449	0.81449	0.102
2	Total Tetra-Dioxins	22.56	4.881e3	5.557e3	4.046e2	4.725e2	0.86	NO	8.771e2	0.32582	0.32582	0.102
3	Total Tetra-Dioxins	22.56	4.889e3	5.605e3	3.999e2	4.820e2	0.83	NO	8.818e2	0.32759	0.32759	0.102
4	Total Tetra-Dioxins	23.14	3.132e3	3.280e3	2.671e2	3.090e2	0.86	NO	5.761e2	0.21401	0.21401	0.102
5	Total Tetra-Dioxins	23.98	2.666e3	3.062e3	1.422e2	1.707e2	0.83	NO	3.129e2	0.11623	0.11623	0.102
6	Total Tetra-Dioxins	24.22	2.375e3	4.066e3	2.116e2	2.762e2	0.77	NO	4.878e2	0.18122	0.18122	0.102
7	Total Tetra-Dioxins	24.43	4.875e3	5.332e3	3.594e2	4.350e2	0.83	NO	7.944e2	0.29513	0.29513	0.102
8	Total Tetra-Dioxins	25.80	8.543e3	1.339e4	6.803e2	9.219e2	0.74	NO	1.602e3	0.59521	0.59521	0.102
9	2,3,7,8-TCDD	26.07	5.072e3	1.447e4	3.387e2	7.516e2	0.45	YES	1.090e3	0.00000	0.28926	0.102

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.52	1.735e4	2.451e4	1.392e3	2.029e3	0.69	NO	3.421e3	2.2492	2.2492	0.195
2	Total Penta-Dioxins	29.00	4.565e3	1.047e4	2.660e2	4.367e2	0.61	NO	7.027e2	0.46198	0.46198	0.195
3	Total Penta-Dioxins	29.53	1.376e4	1.589e4	8.082e2	9.938e2	0.81	YES	0.000e0	0.00000	1.0650	0.195
4	Total Penta-Dioxins	29.72	1.182e4	1.617e4	6.436e2	9.226e2	0.70	NO	0.000e0	0.00000	1.0297	0.195
5	Total Penta-Dioxins	29.75	4.668e3	1.128e4	1.847e2	3.415e2	0.54	NO	0.000e0	0.00000	0.34594	0.195
6	Total Penta-Dioxins	30.00	8.775e3	1.443e4	6.009e2	8.893e2	0.68	NO	1.490e3	0.97969	0.97969	0.195
7	1,2,3,7,8-PeCDD	30.79	1.097e4	1.475e4	4.630e2	6.572e2	0.70	NO	1.120e3	0.73648	0.73648	0.195
8	Total Penta-Dioxins	30.87	2.881e3	3.863e3	1.438e2	2.259e2	0.64	NO	3.696e2	0.24302	0.24302	0.195

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Name: 201126R1_11, Date: 26-Nov-2020, Time: 16:05:26, ID: 2002375-06 USMPDI-047SC-A-02-03-201030 18.39, Description: USMPDI-047SC-A-02-03-201030

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.49	2.014e5	1.695e5	1.082e4	8.942e3	1.21	NO	1.976e4	12.280	12.280	0.341
2	Total Hexa-Dioxins	33.08	2.247e4	1.598e4	1.148e3	8.638e2	1.33	NO	2.012e3	1.2504	1.2504	0.341
3	Total Hexa-Dioxins	33.38	2.387e5	1.894e5	1.624e4	1.328e4	1.22	NO	2.952e4	18.348	18.348	0.341
4	Total Hexa-Dioxins	33.44	2.142e4	1.683e4	1.041e3	7.605e2	1.37	NO	1.802e3	1.1198	1.1198	0.341
5	1,2,3,4,7,8-HxCDD	34.11	1.343e4	8.911e3	6.406e2	5.594e2	1.15	NO	1.200e3	0.73911	0.73911	0.314
6	1,2,3,6,7,8-HxCDD	34.23	6.528e4	5.668e4	4.675e3	3.930e3	1.19	NO	8.605e3	4.9825	4.9825	0.316
7	Total Hexa-Dioxins	34.41	6.234e3	6.822e3	4.785e2	4.517e2	1.06	NO	9.302e2	0.57818	0.57818	0.341
8	1,2,3,7,8,9-HxCDD	34.53	2.480e4	3.139e4	1.905e3	1.777e3	1.07	NO	3.682e3	2.1967	2.1967	0.351

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.96	8.540e5	8.140e5	7.636e4	7.413e4	1.03	NO	1.505e5	116.89	116.89	1.21
2	1,2,3,4,6,7,8-HpCDD	38.02	7.711e5	7.650e5	6.190e4	6.074e4	1.02	NO	1.226e5	95.250	95.250	1.21

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-11.qld

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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	20.58	7.238e3	9.059e3	7.094e2	8.757e2	0.81	NO	1.585e3	0.41825	0.41825	0.112
2	Total Tetra-Furans	21.35	3.133e4	4.223e4	2.932e3	3.707e3	0.79	NO	6.640e3	1.7519	1.7519	0.112
3	Total Tetra-Furans	21.71	4.428e3	5.544e3	4.482e2	6.004e2	0.75	NO	1.049e3	0.27669	0.27669	0.112
4	Total Tetra-Furans	21.84	1.213e4	1.508e4	1.092e3	1.321e3	0.83	NO	2.413e3	0.63676	0.63676	0.112
5	Total Tetra-Furans	21.93	7.051e3	9.152e3	5.969e2	8.619e2	0.69	NO	1.459e3	0.38494	0.38494	0.112
6	Total Tetra-Furans	22.19	4.831e3	7.328e3	3.593e2	5.031e2	0.71	NO	8.624e2	0.22754	0.22754	0.112
7	Total Tetra-Furans	22.28	5.884e4	7.629e4	5.315e3	7.284e3	0.73	NO	1.260e4	3.3246	3.3246	0.112
8	Total Tetra-Furans	22.76	2.444e4	3.149e4	2.239e3	2.873e3	0.78	NO	5.113e3	1.3491	1.3491	0.112
9	Total Tetra-Furans	22.89	7.675e3	1.493e4	5.097e2	7.601e2	0.67	NO	1.270e3	0.33505	0.33505	0.112
10	Total Tetra-Furans	23.11	1.554e4	1.908e4	1.252e3	1.665e3	0.75	NO	2.917e3	0.76959	0.76959	0.112
11	Total Tetra-Furans	23.54	3.487e3	4.466e3	2.093e2	2.919e2	0.72	NO	0.000e0	0.00000	0.13225	0.112
12	Total Tetra-Furans	23.66	4.003e3	7.217e3	3.572e2	5.189e2	0.69	NO	8.761e2	0.23116	0.23116	0.112
13	Total Tetra-Furans	23.84	1.857e4	2.660e4	6.178e2	9.340e2	0.66	NO	0.000e0	0.00000	0.40945	0.112
14	Total Tetra-Furans	23.87	3.313e4	4.368e4	3.475e3	4.585e3	0.76	NO	0.000e0	0.00000	2.1266	0.112
15	Total Tetra-Furans	24.35	2.297e5	2.989e5	1.620e4	2.281e4	0.71	NO	3.901e4	10.295	10.295	0.112
16	Total Tetra-Furans	24.69	1.154e4	1.303e4	7.546e2	8.883e2	0.85	NO	1.643e3	0.43349	0.43349	0.112
17	Total Tetra-Furans	25.11	4.122e3	6.841e3	2.953e2	4.067e2	0.73	NO	7.020e2	0.18523	0.18523	0.112
18	Total Tetra-Furans	25.25	3.827e4	5.461e4	2.556e3	3.545e3	0.72	NO	6.102e3	1.6100	1.6100	0.112
19	2,3,7,8-TCDF	25.39	2.442e5	3.317e5	1.693e4	2.310e4	0.73	NO	4.003e4	10.562	10.562	0.112
20	Total Tetra-Furans	25.63	5.511e3	7.875e3	3.495e2	4.532e2	0.77	NO	8.028e2	0.21182	0.21182	0.112
21	Total Tetra-Furans	25.70	1.218e4	1.812e4	9.491e2	1.297e3	0.73	NO	2.246e3	0.59274	0.59274	0.112
22	Total Tetra-Furans	25.98	4.669e3	6.043e3	2.790e2	3.447e2	0.81	NO	6.238e2	0.16459	0.16459	0.112
23	Total Tetra-Furans	26.93	8.367e3	8.999e3	4.796e2	6.379e2	0.75	NO	1.118e3	0.29488	0.29488	0.112
24	Total Tetra-Furans	27.10	5.440e3	5.306e3	3.117e2	2.769e2	1.13	YES	0.000e0	0.00000	0.12932	0.112
25	Total Tetra-Furans	27.30	1.930e4	3.246e4	1.288e3	1.757e3	0.73	NO	3.044e3	0.80331	0.80331	0.112

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	26.91	1.512e5	9.869e4	9.678e3	5.853e3	1.65	NO	1.553e4	4.9052	4.9052	0.0282

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Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.38	2.137e4	1.357e4	1.238e3	8.807e2	1.41	NO	2.119e3	0.66933	0.66933	0.272
2	Total Penta-Furans	28.54	2.217e5	1.612e5	1.574e4	1.005e4	1.57	NO	2.579e4	8.1442	8.1442	0.272
3	Total Penta-Furans	29.18	4.546e4	3.900e4	3.168e3	2.185e3	1.45	NO	5.353e3	1.6907	1.6907	0.272
4	Total Penta-Furans	29.33	7.771e4	4.881e4	4.263e3	2.445e3	1.74	NO	6.709e3	2.1189	2.1189	0.272
5	1,2,3,7,8-PeCDF	29.53	4.280e5	2.580e5	2.291e4	1.412e4	1.62	NO	3.702e4	11.466	11.466	0.269
6	Total Penta-Furans	29.78	1.493e5	1.103e5	8.454e3	5.555e3	1.52	NO	1.401e4	4.4246	4.4246	0.272
7	Total Penta-Furans	30.41	8.752e3	6.022e3	4.457e2	3.093e2	1.44	NO	7.550e2	0.23846	0.23846	0.272
8	2,3,4,7,8-PeCDF	30.60	2.712e5	1.797e5	1.492e4	9.889e3	1.51	NO	2.481e4	7.2028	7.2028	0.248
9	Total Penta-Furans	31.52	1.362e4	8.972e3	1.059e3	6.193e2	1.71	NO	1.678e3	0.52996	0.52996	0.272

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.95	6.501e4	5.149e4	3.285e3	2.603e3	1.26	NO	5.888e3	2.7056	2.7056	0.199
2	Total Hexa-Furans	32.13	1.687e5	1.481e5	9.281e3	8.066e3	1.15	NO	1.735e4	7.9714	7.9714	0.199
3	Total Hexa-Furans	32.75	1.926e5	1.591e5	1.072e4	9.041e3	1.19	NO	1.976e4	9.0808	9.0808	0.199
4	Total Hexa-Furans	33.10	5.505e3	5.600e3	3.030e2	2.673e2	1.13	NO	5.704e2	0.26209	0.26209	0.199
5	1,2,3,4,7,8-HxCDF	33.22	3.933e5	3.356e5	2.378e4	1.929e4	1.23	NO	4.307e4	19.675	19.675	0.170
6	1,2,3,6,7,8-HxCDF	33.36	1.025e5	8.923e4	6.613e3	5.557e3	1.19	NO	1.217e4	5.1199	5.1199	0.165
7	2,3,4,6,7,8-HxCDF	34.03	2.328e4	2.390e4	1.941e3	1.716e3	1.13	NO	3.657e3	1.6531	1.6531	0.194
8	1,2,3,7,8,9-HxCDF	35.02	2.471e4	1.747e4	6.585e2	5.021e2	1.31	NO	1.161e3	0.64277	0.64277	0.299
9	Total Hexa-Furans	35.04	2.853e4	2.486e4	1.711e3	1.377e3	1.24	NO	3.088e3	1.4191	1.4191	0.199

Hepta-Furans

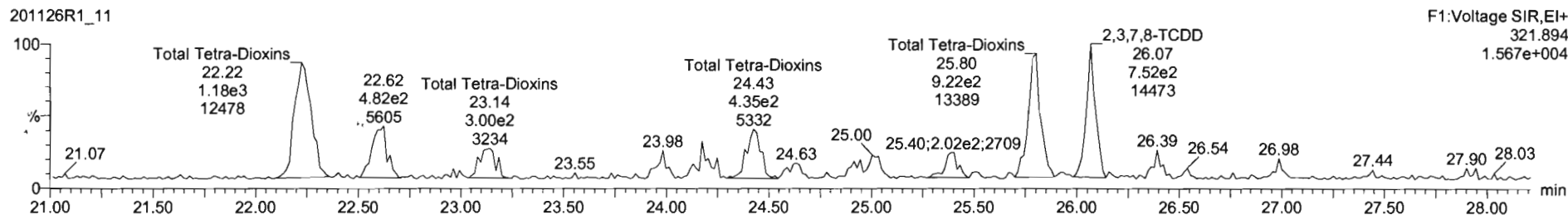
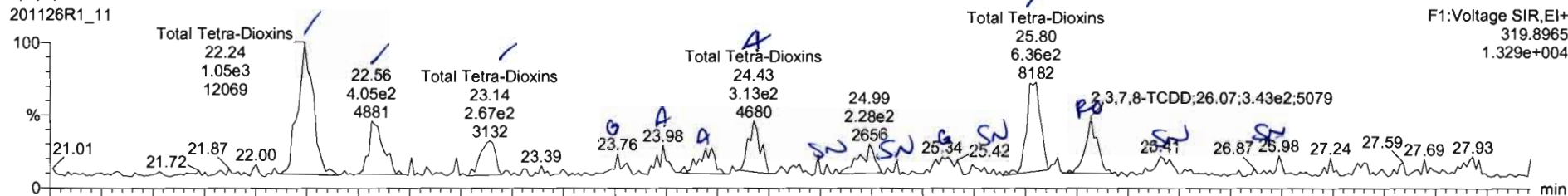
	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.59	1.775e5	1.774e5	1.548e4	1.572e4	0.98	NO	3.119e4	18.982	18.982	0.290
2	Total Hepta-Furans	37.31	1.933e5	1.943e5	1.754e4	1.785e4	0.98	NO	3.539e4	24.450	24.450	0.309
3	1,2,3,4,7,8,9-HpCDF	38.65	3.687e4	3.868e4	2.736e3	2.765e3	0.99	NO	5.501e3	3.9058	3.9058	0.296

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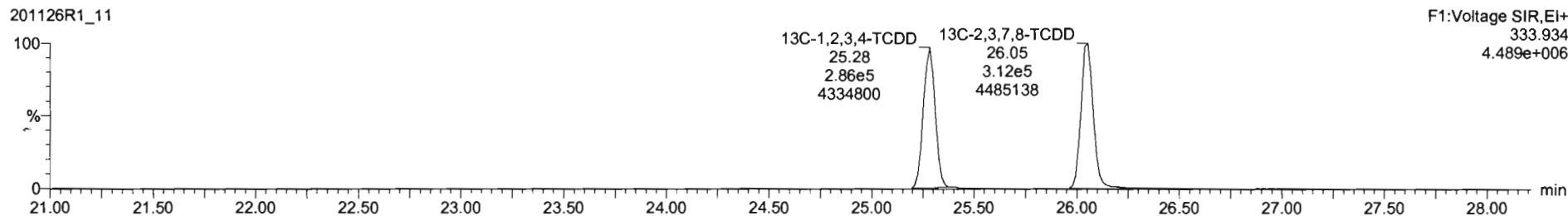
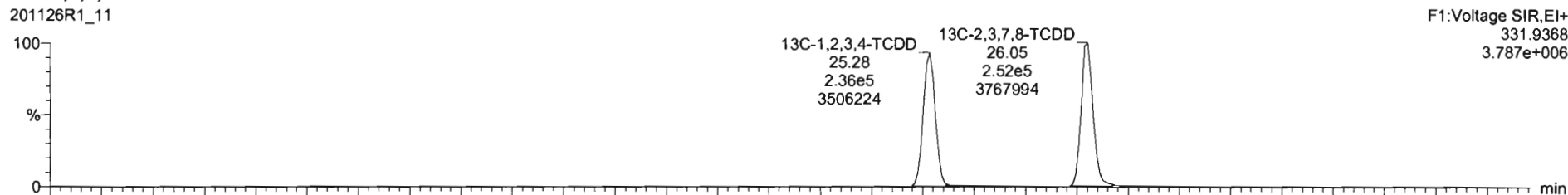
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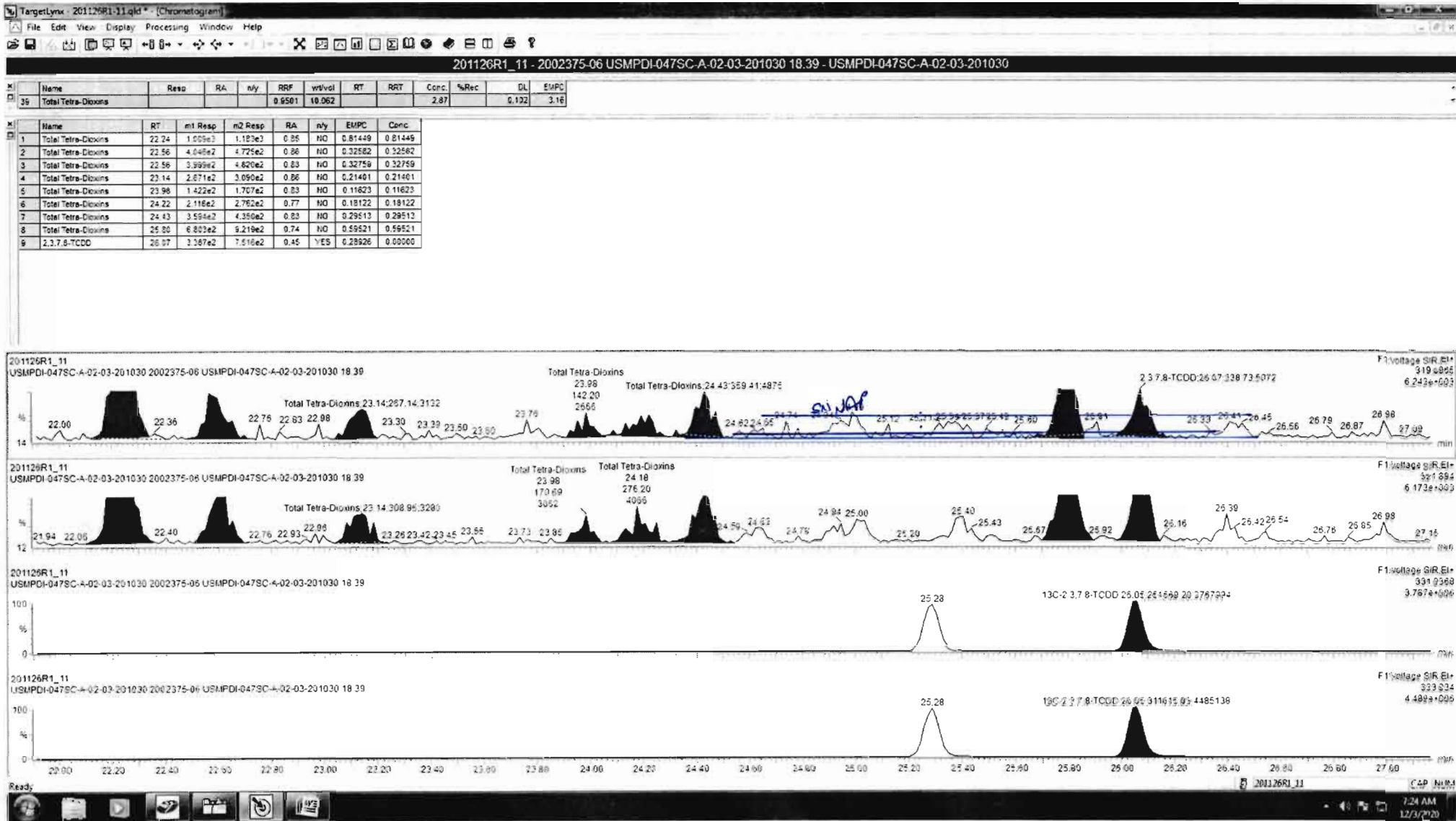
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2,3,7,8-TCDD



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





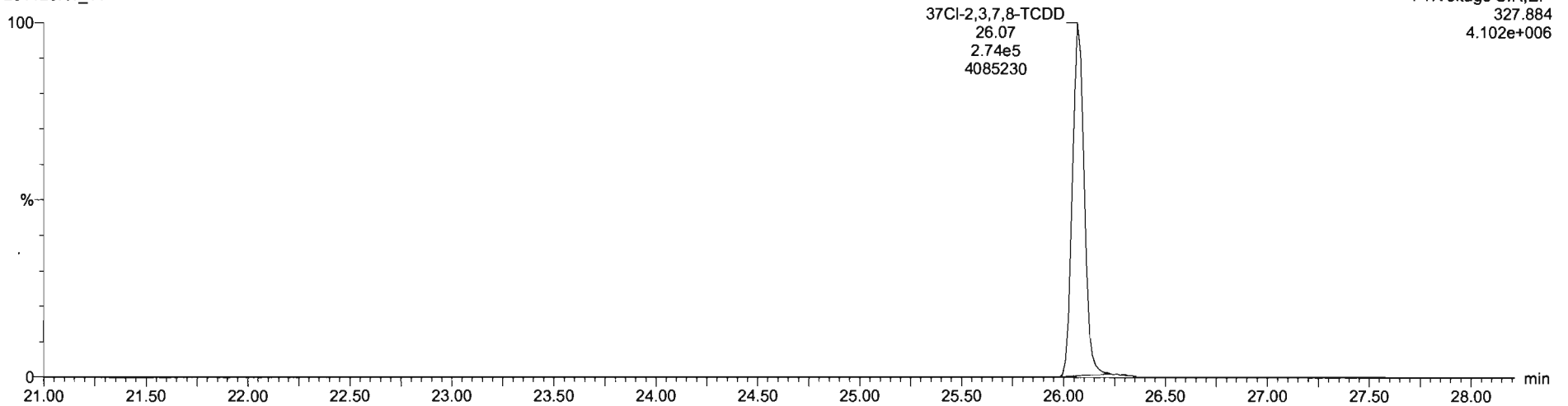
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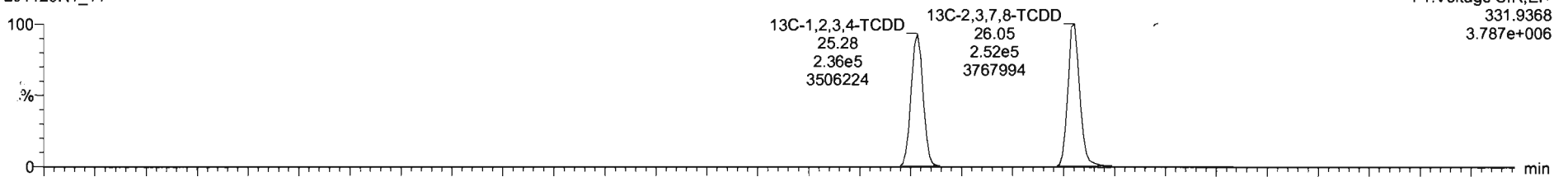
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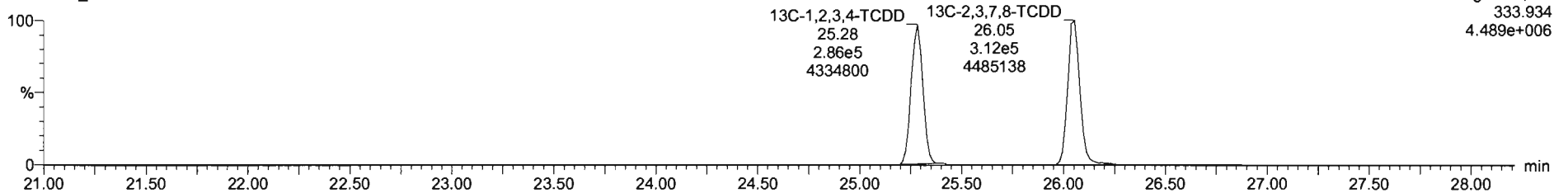


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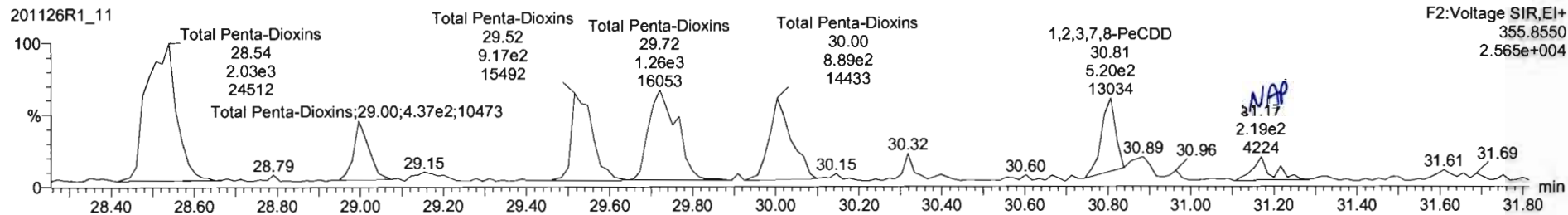
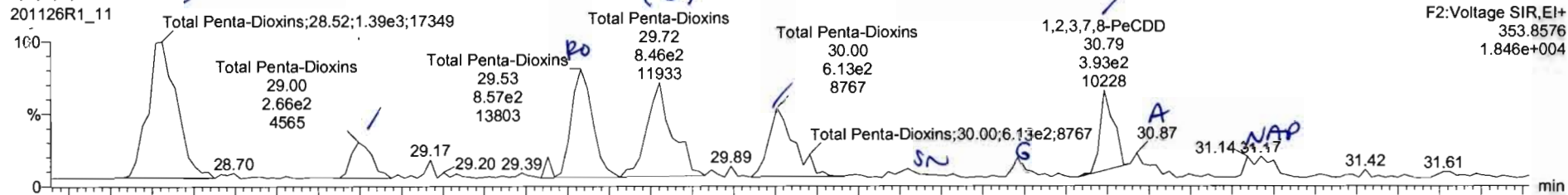


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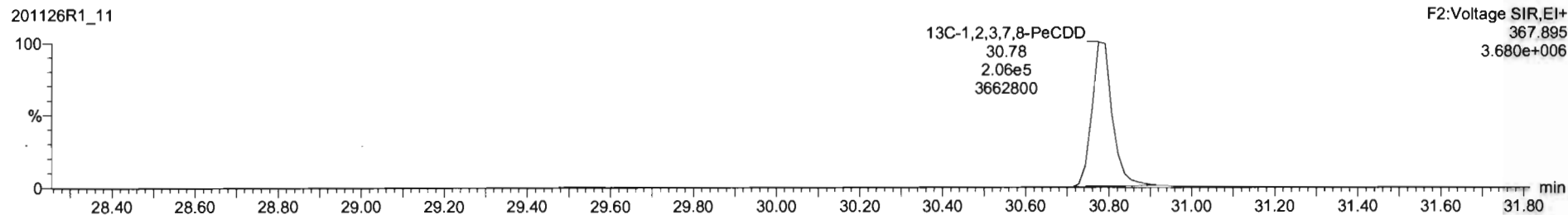
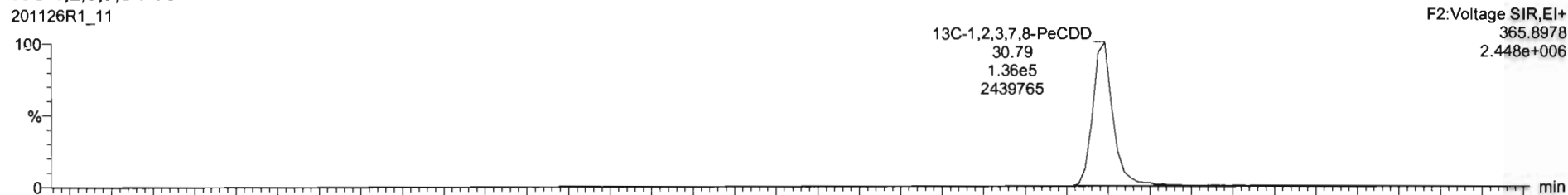
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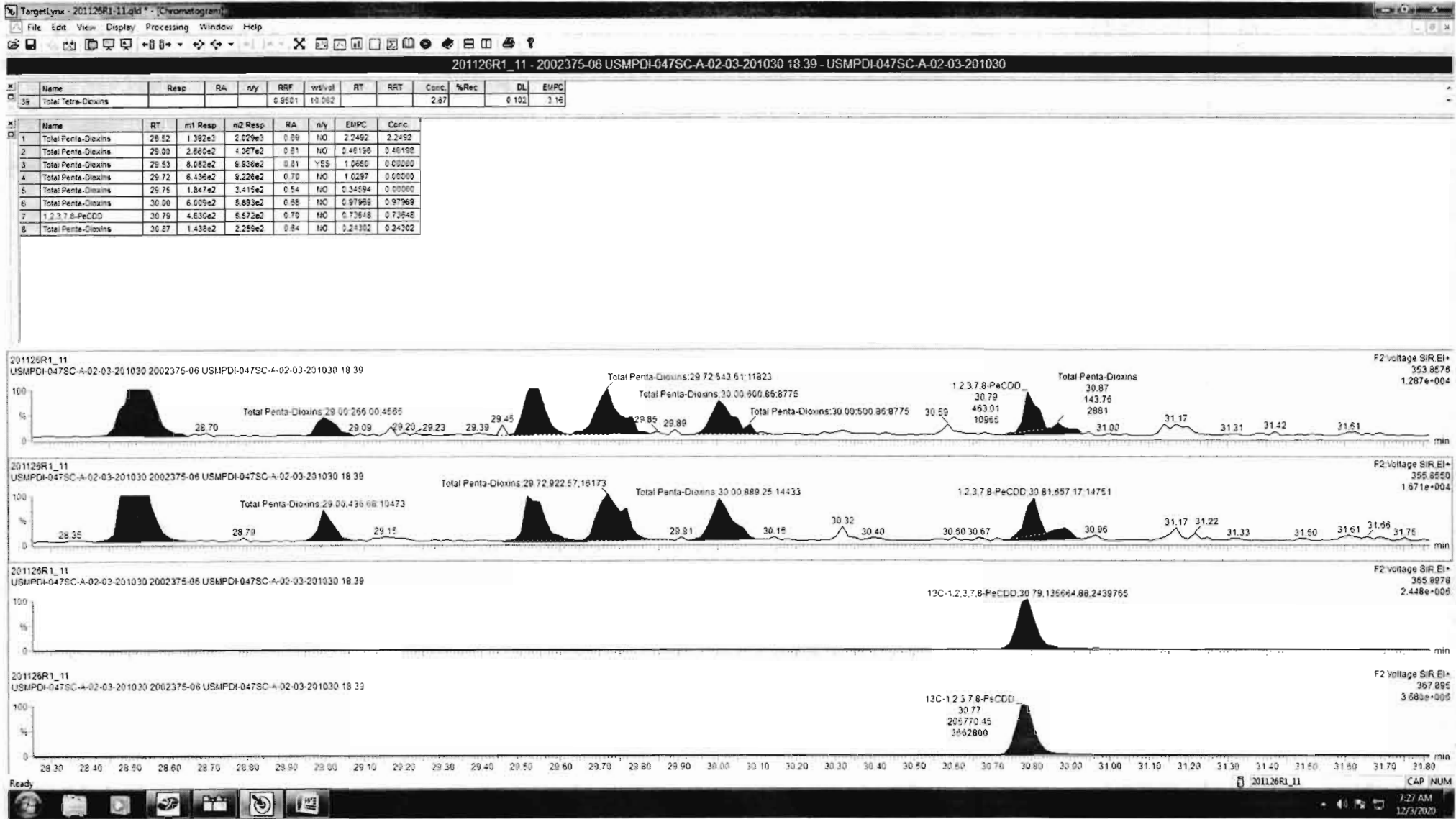
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1,2,3,7,8-PeCDD



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





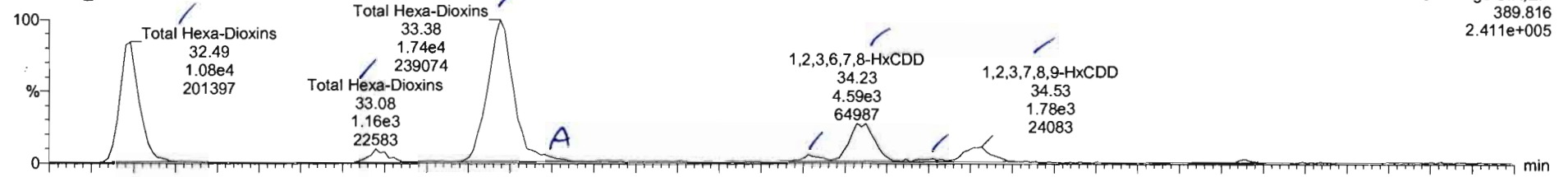
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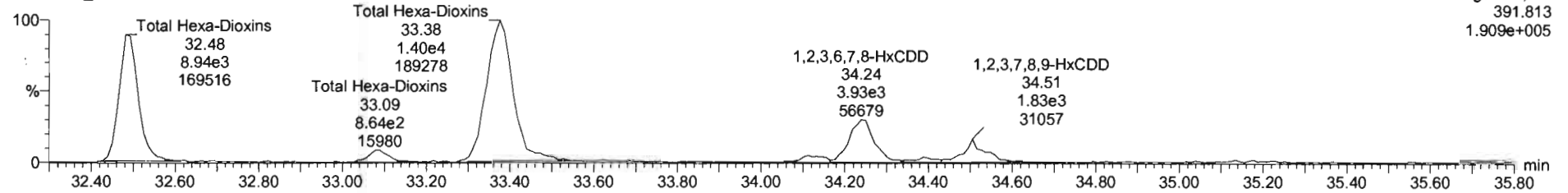
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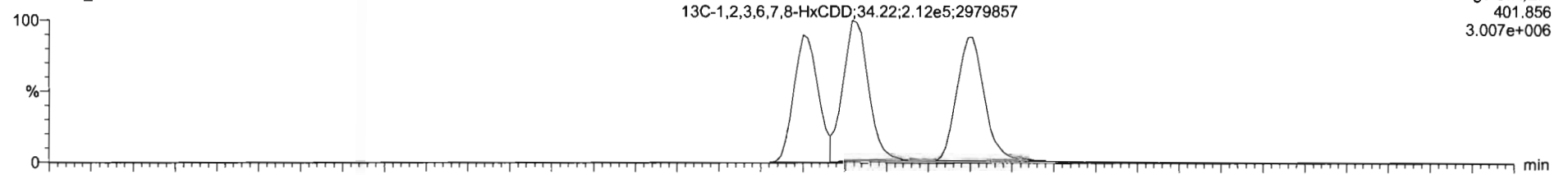


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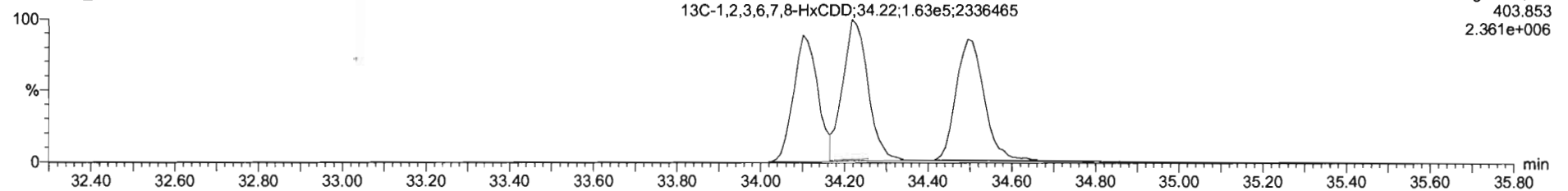


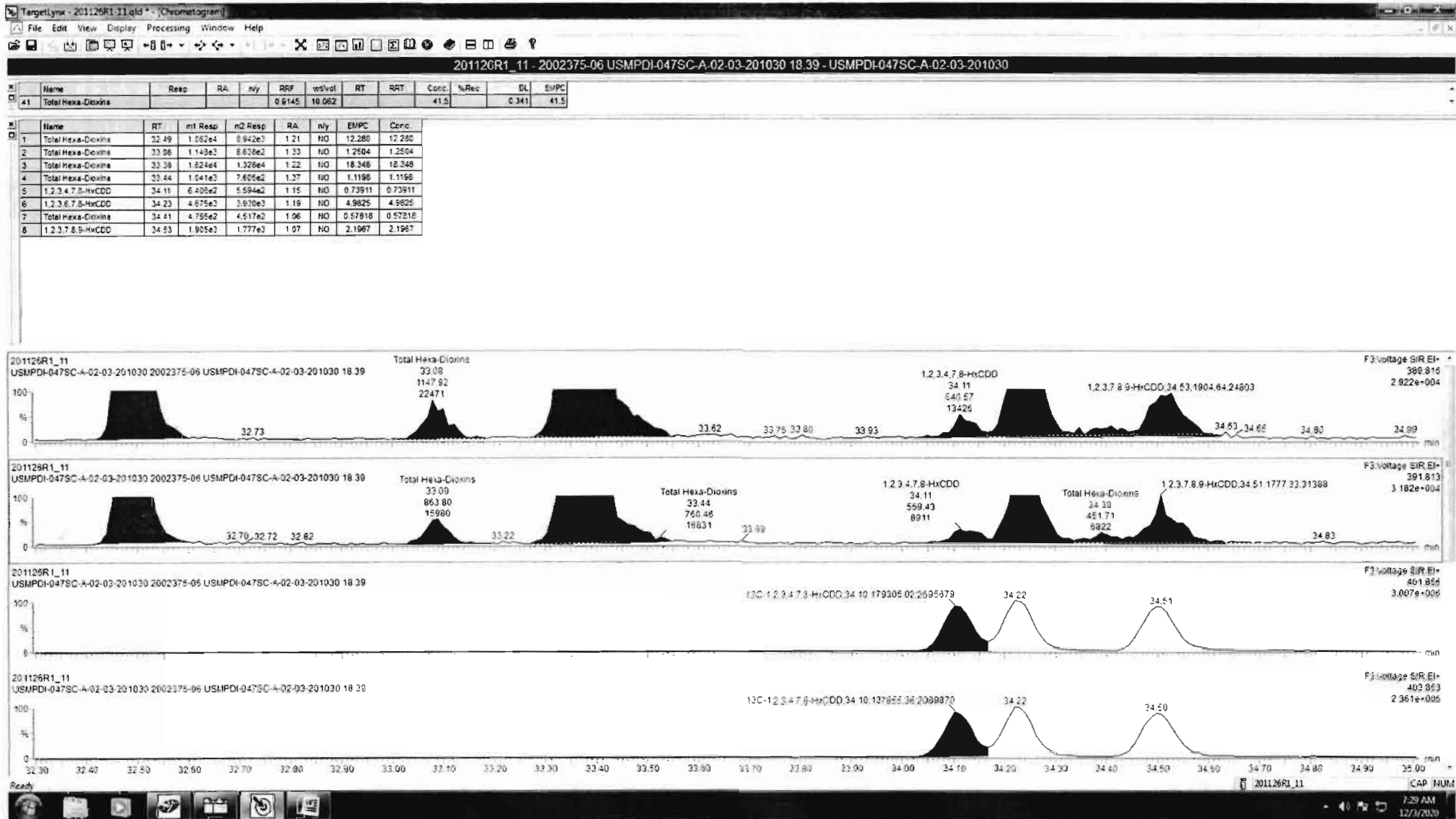
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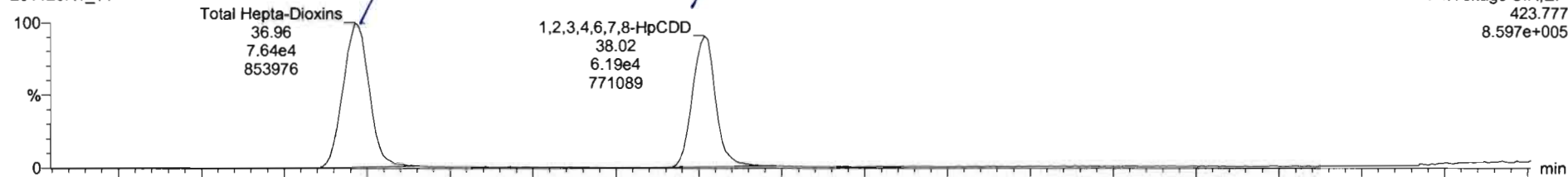
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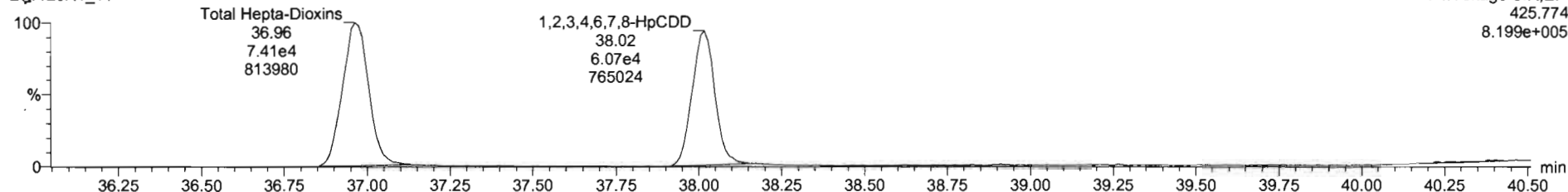
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1,2,3,4,6,7,8-HpCDD

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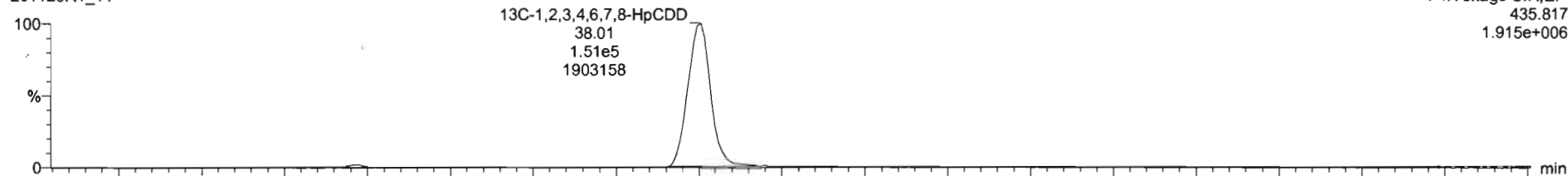


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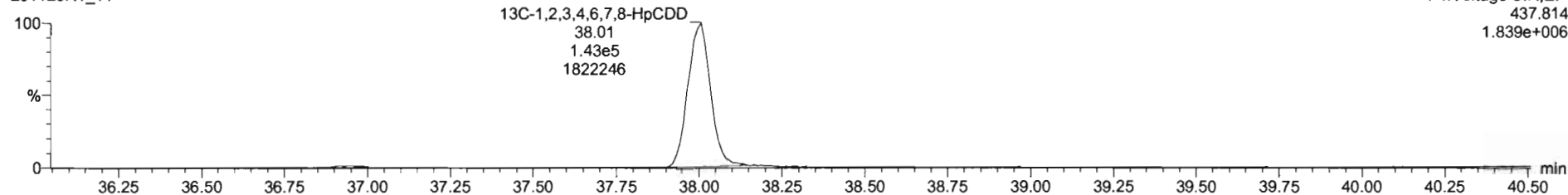


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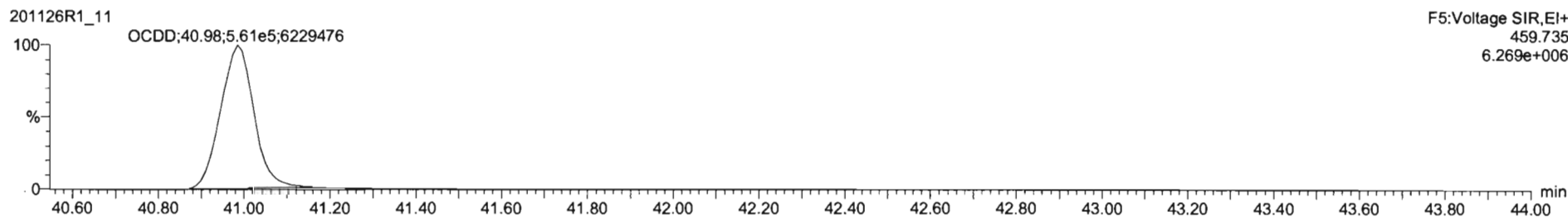
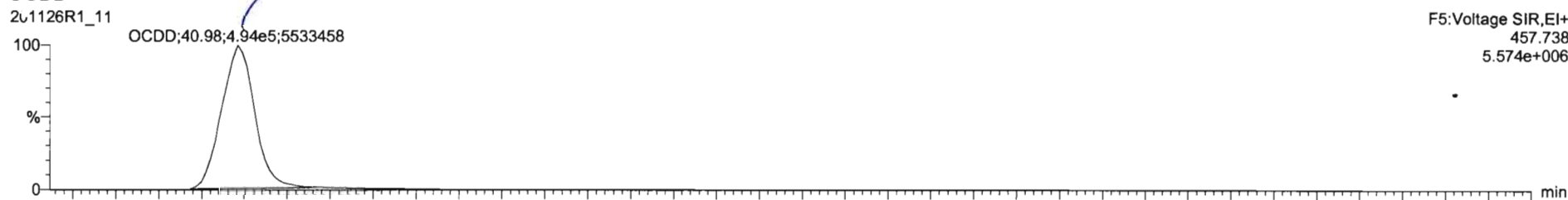


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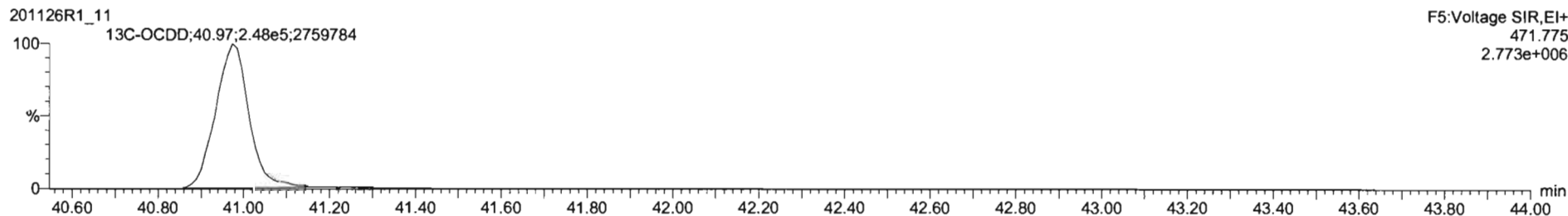
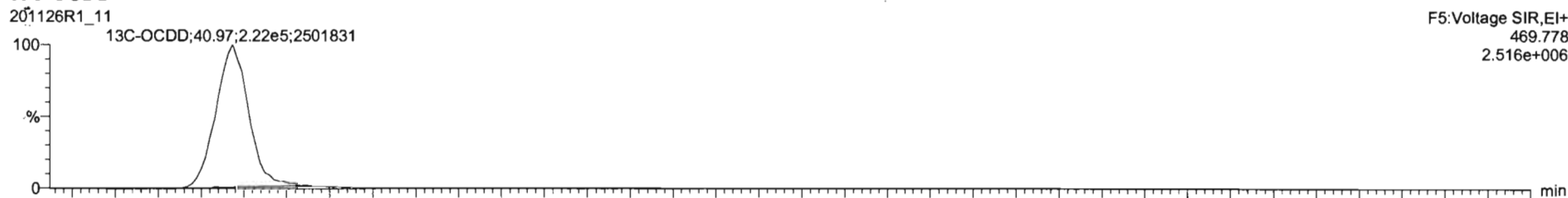
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OCDD



13C-OCDD



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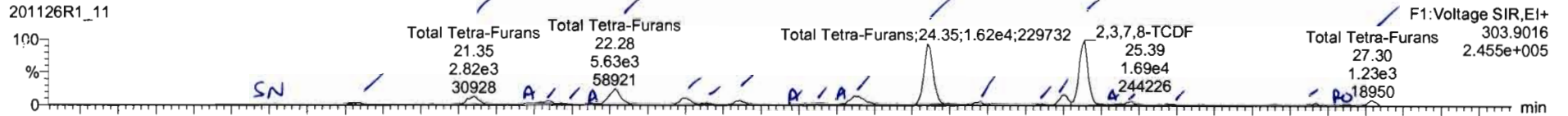
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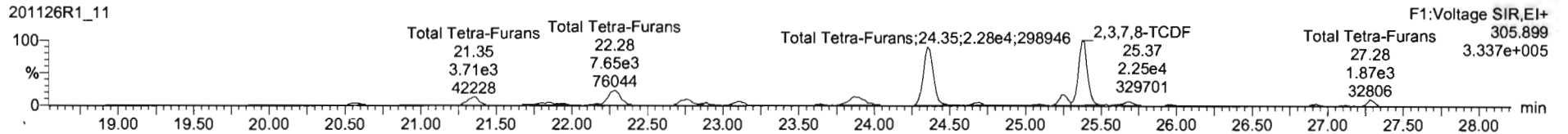
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2,3,7,8-TCDF

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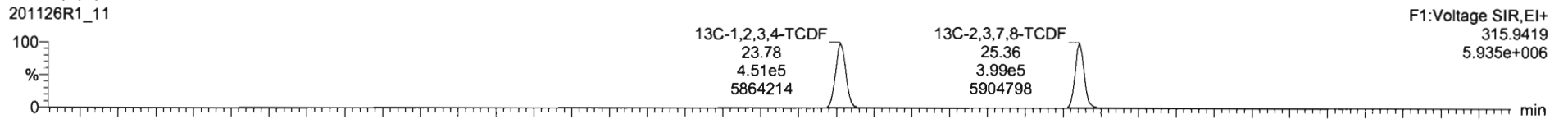


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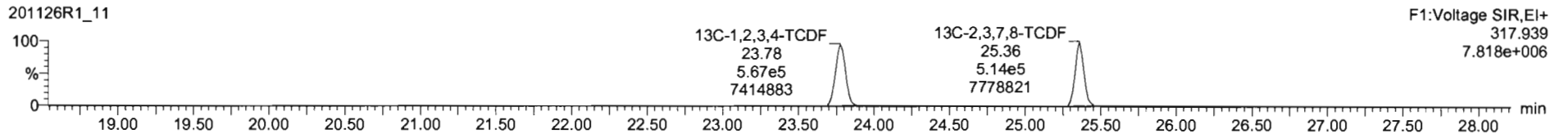


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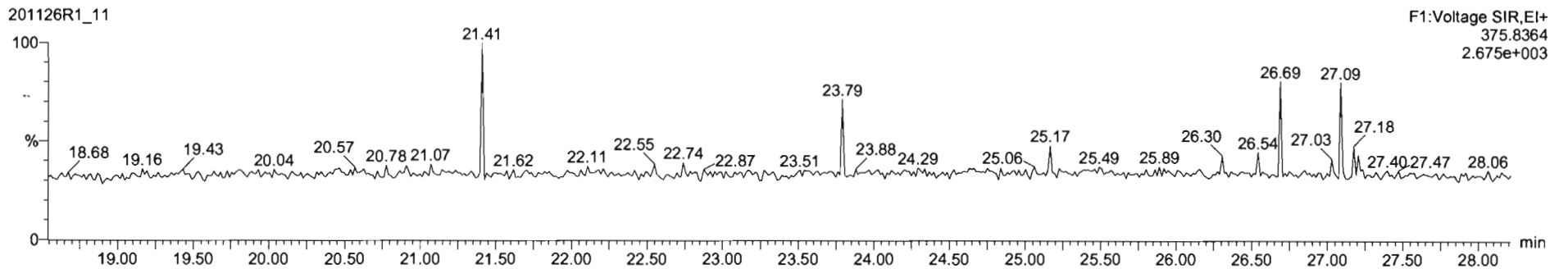


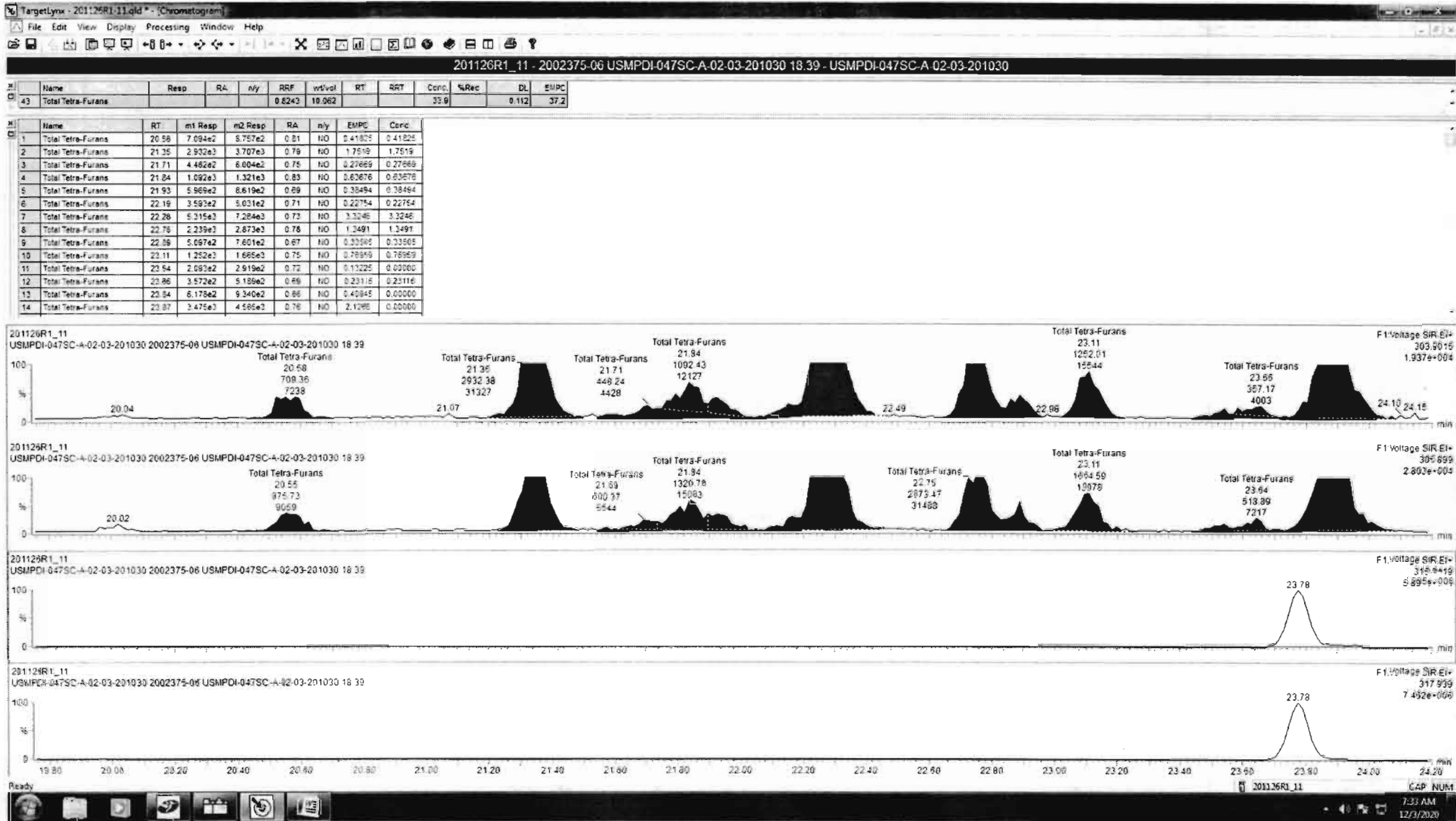
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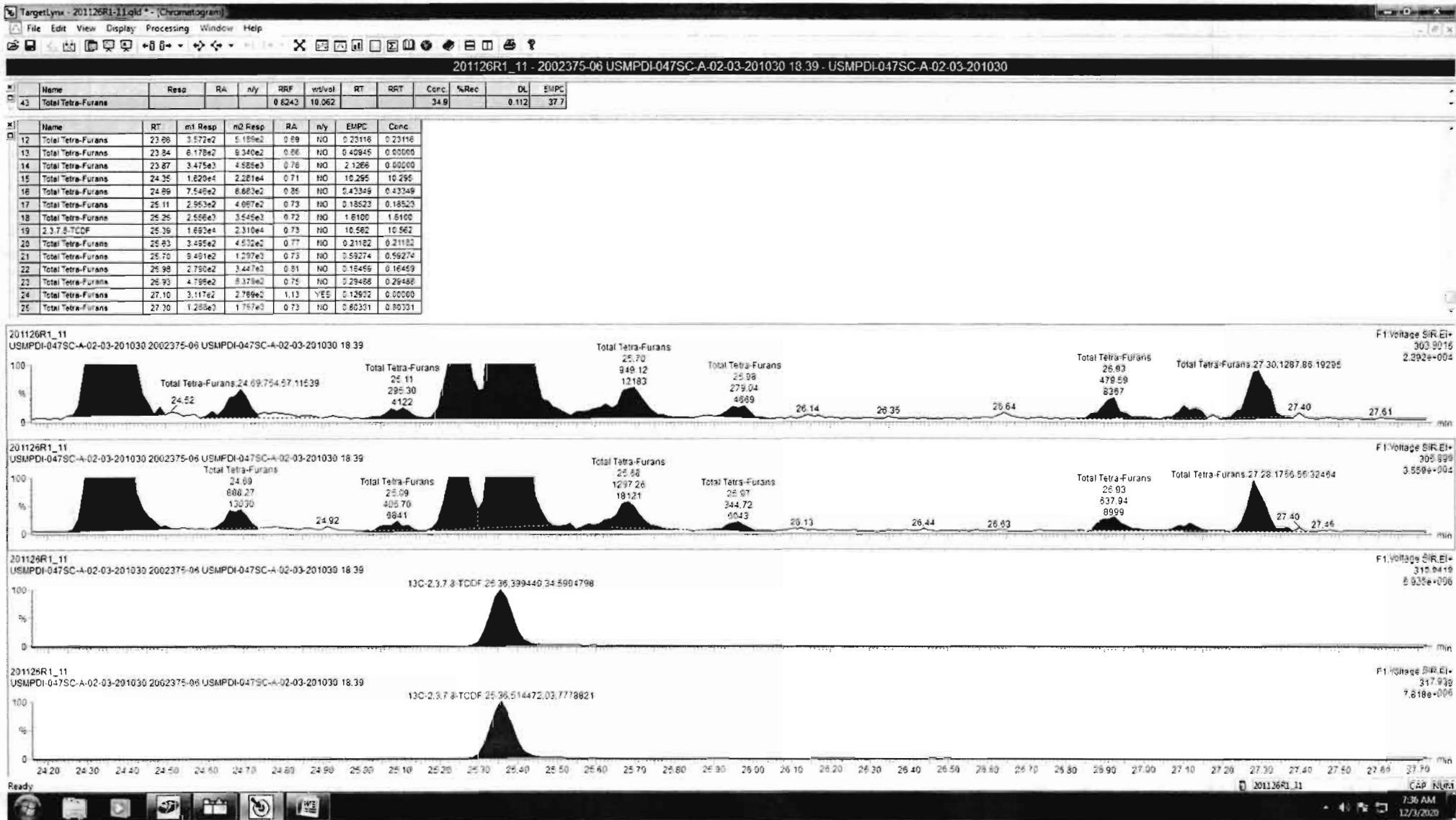


DPE1

201126R1_11







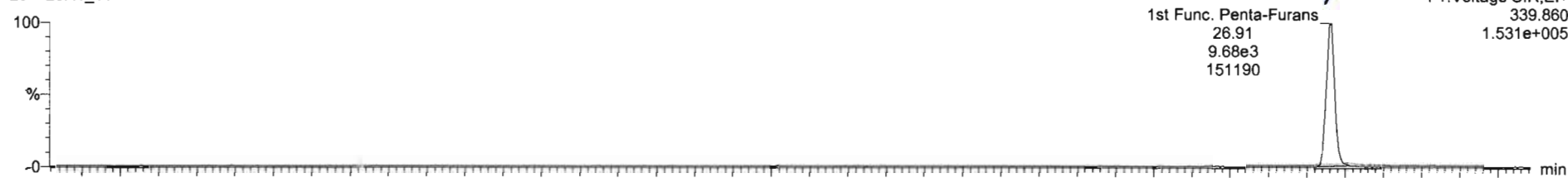
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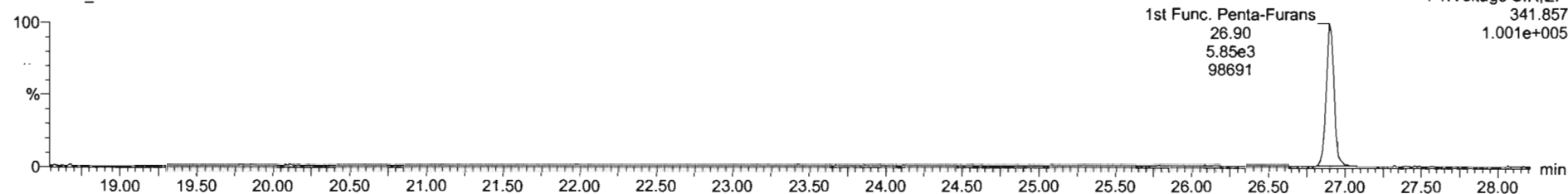
Name: 201126R1_11, Date: 26-Nov-2020, Time: 16:05:26, ID: 2002375-06 USMPDI-047SC-A-02-03-201030 18.39, Description: USMPDI-047SC-A-02-03-201030

1st Func. Penta-Furans

201126R1_11

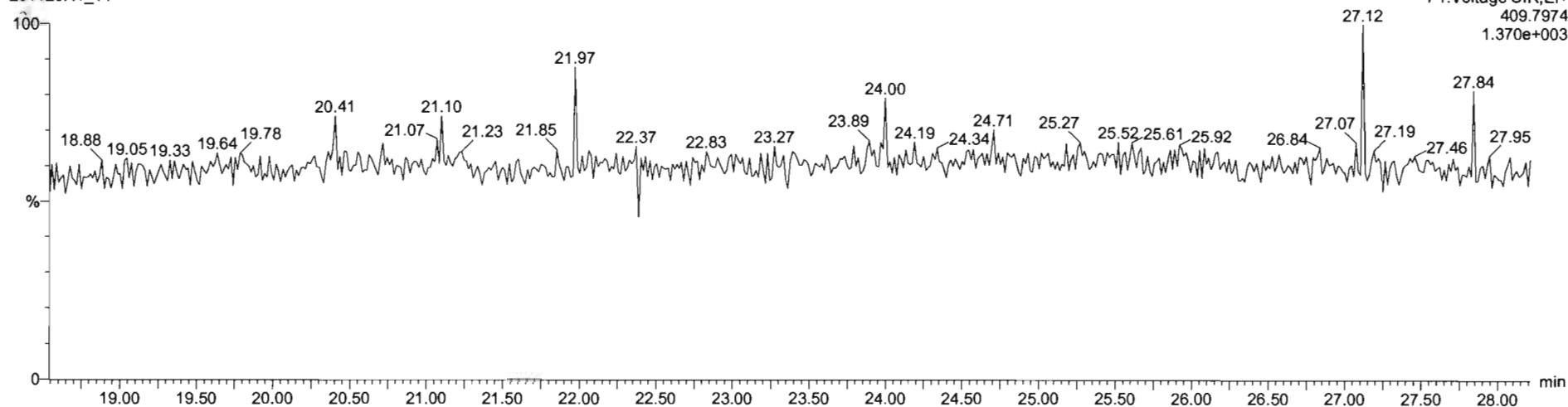


201126R1_11



DPE6

201126R1_11

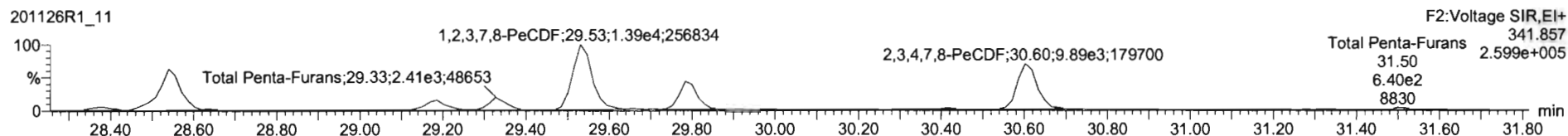


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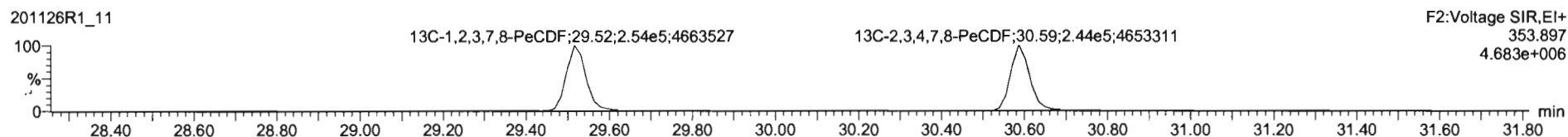
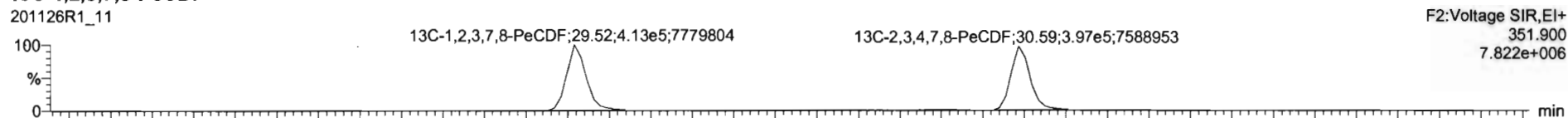
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Name: 201126R1_11, Date: 26-Nov-2020, Time: 16:05:26, ID: 2002375-06 USMPDI-047SC-A-02-03-201030 18.39, Description: USMPDI-047SC-A-02-03-201030

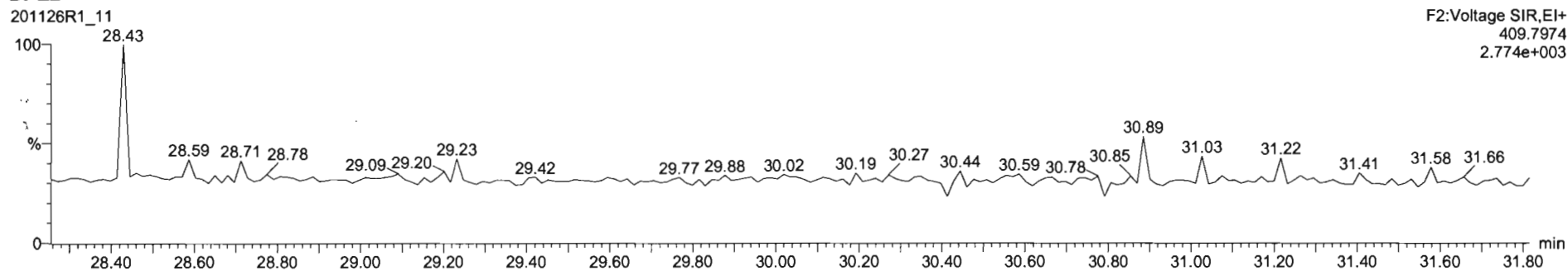
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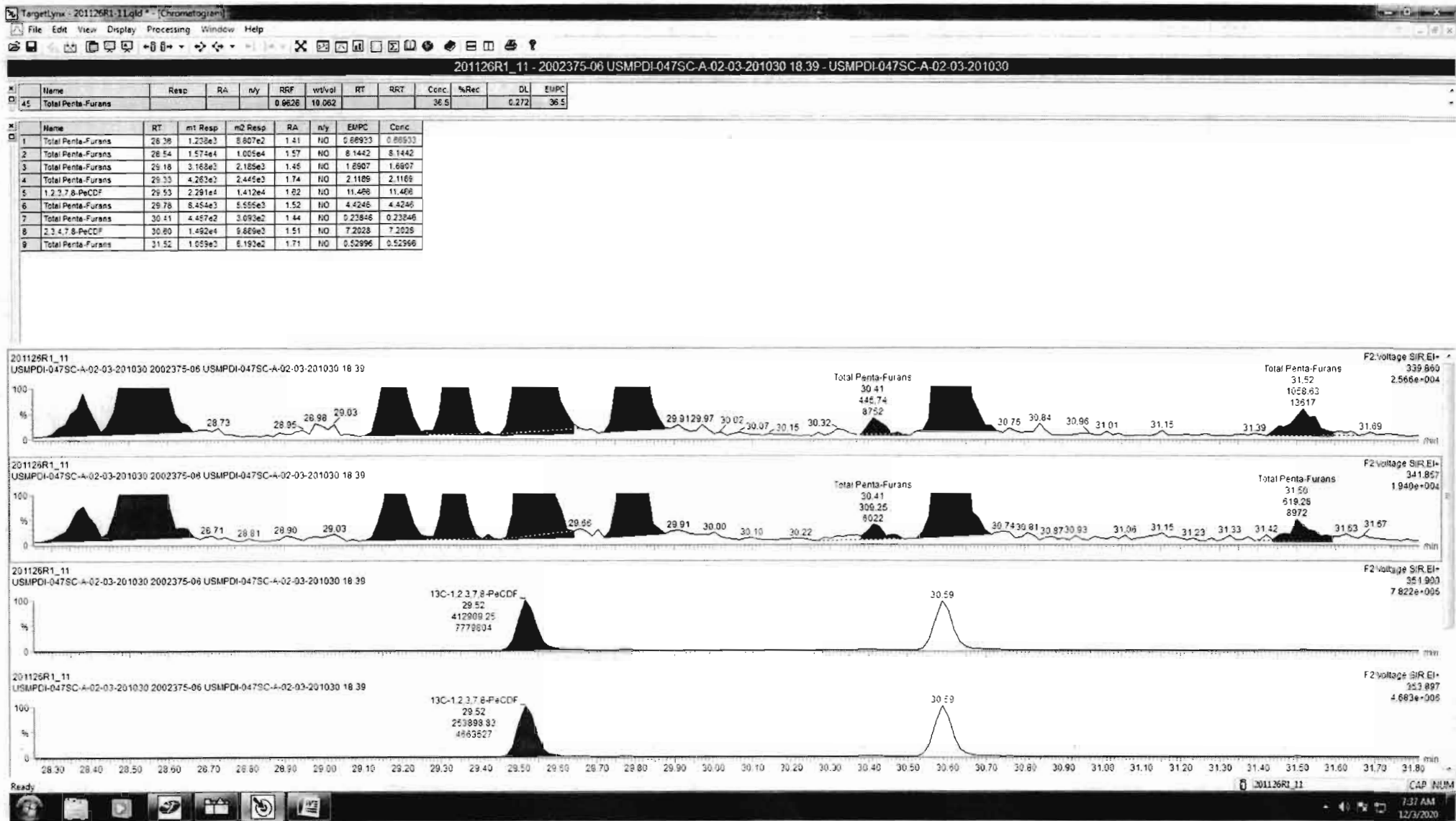


13C-1,2,3,7,8-PeCDF



DPE2



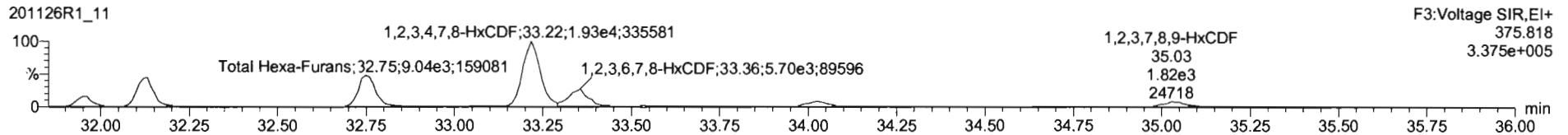
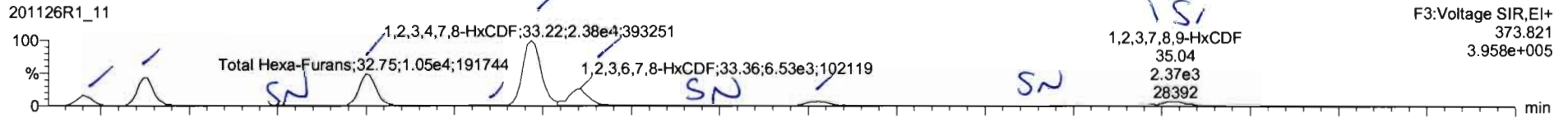


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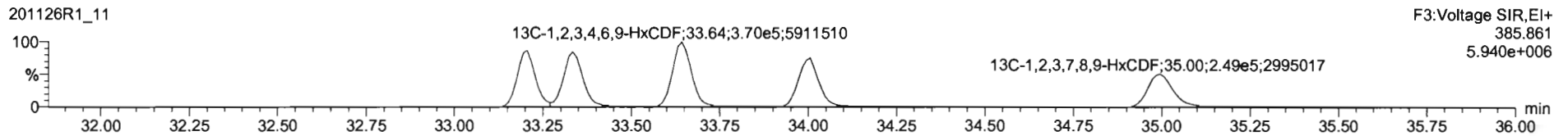
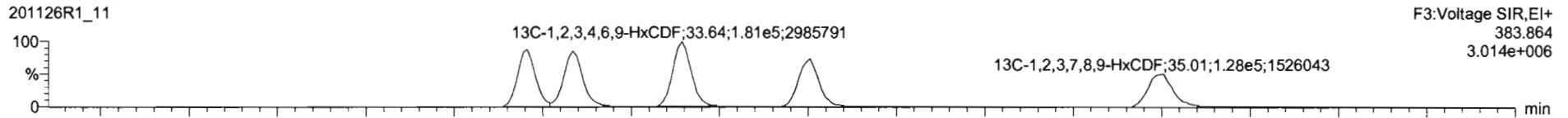
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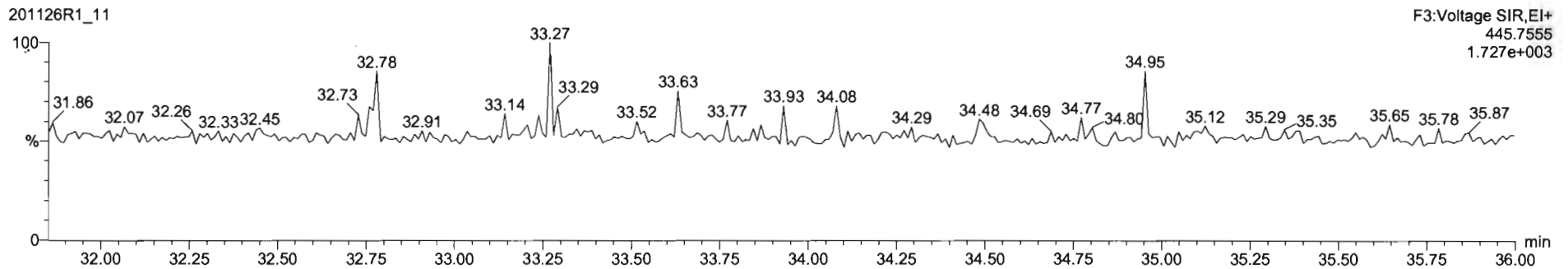
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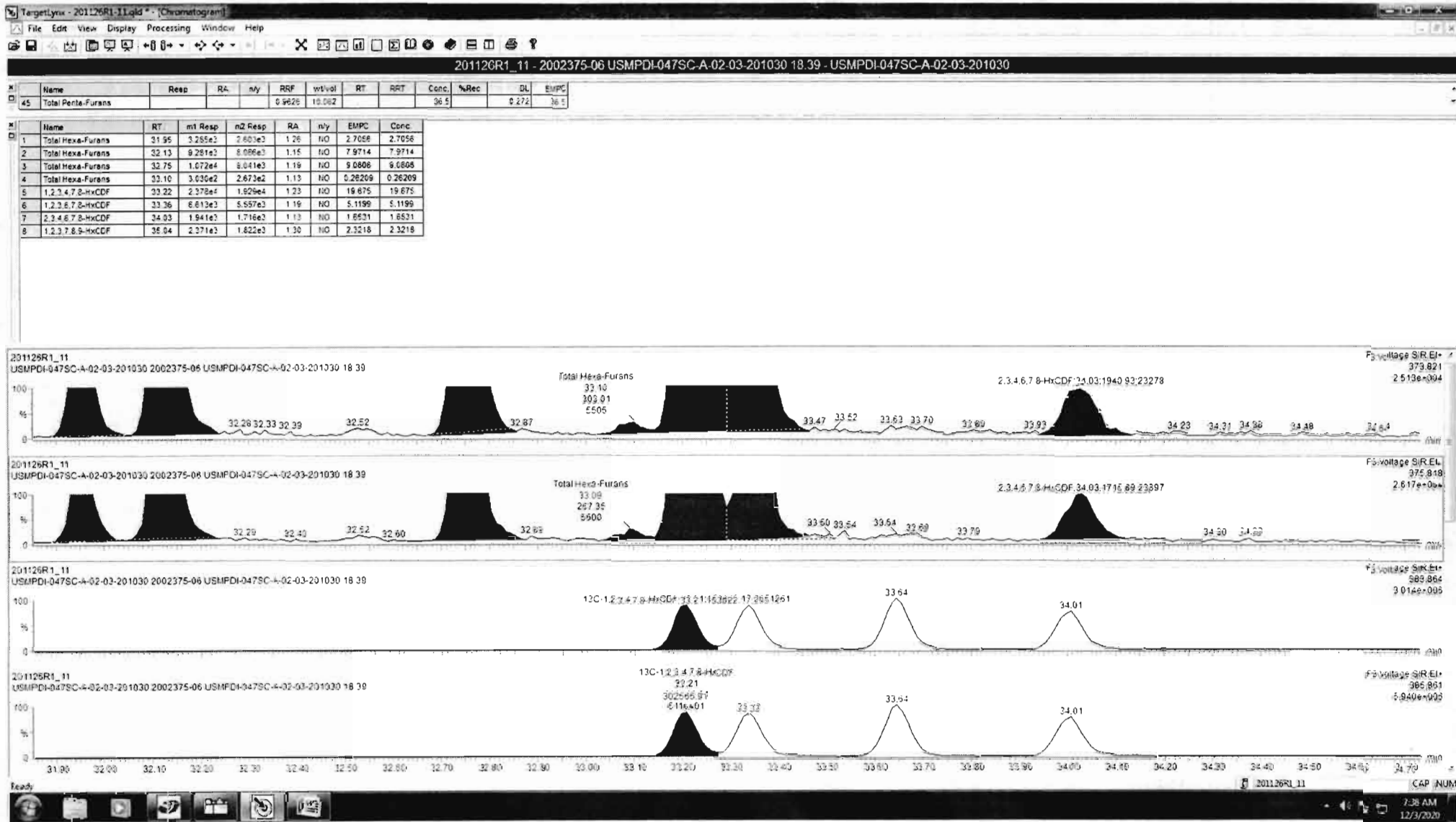


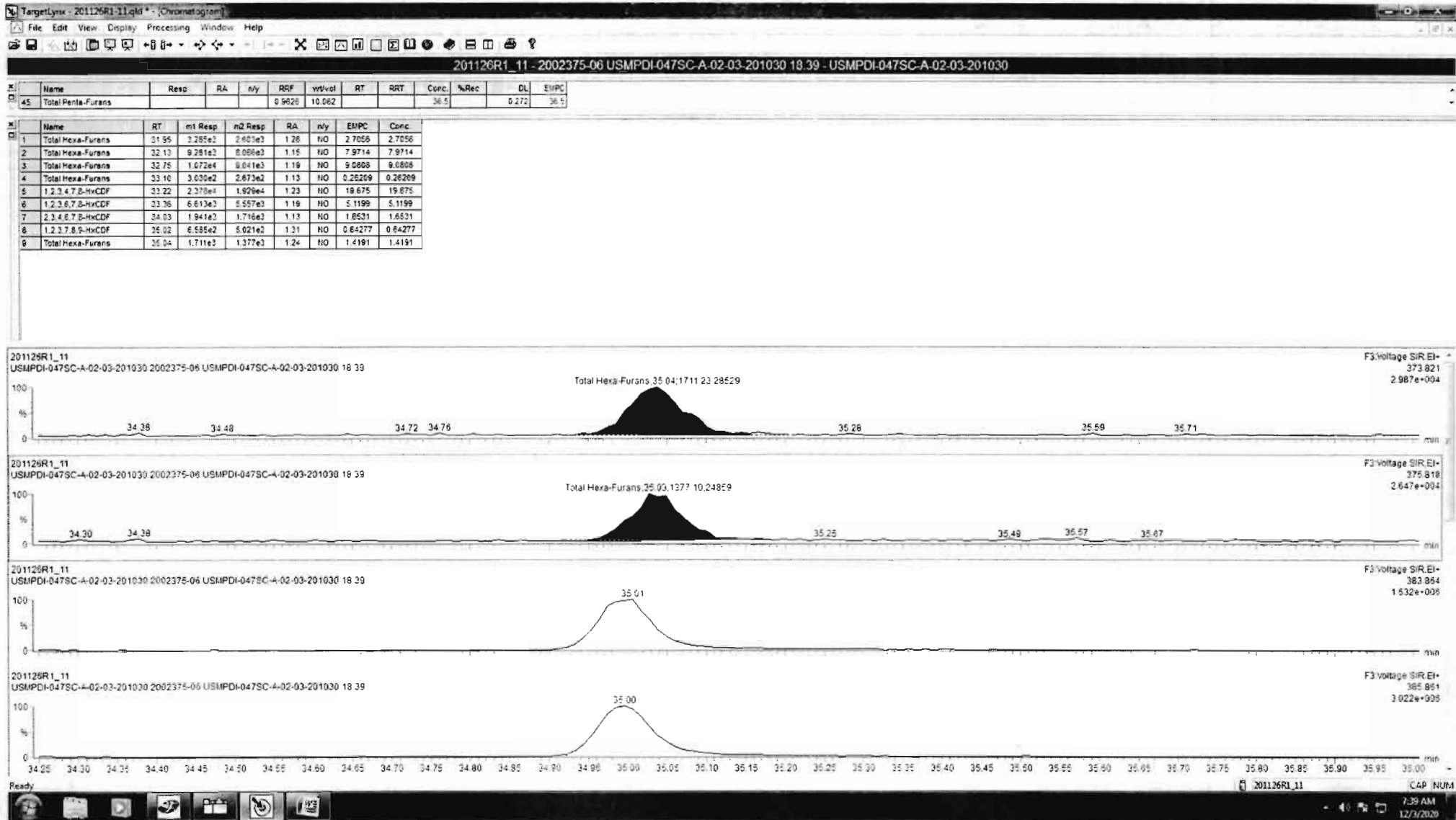
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DPE3







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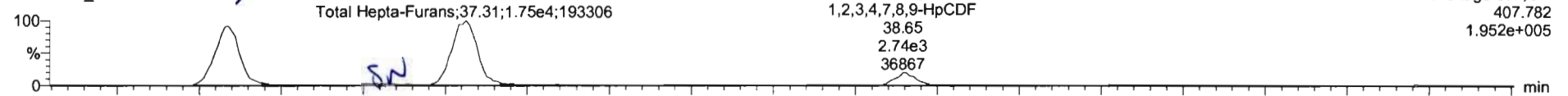
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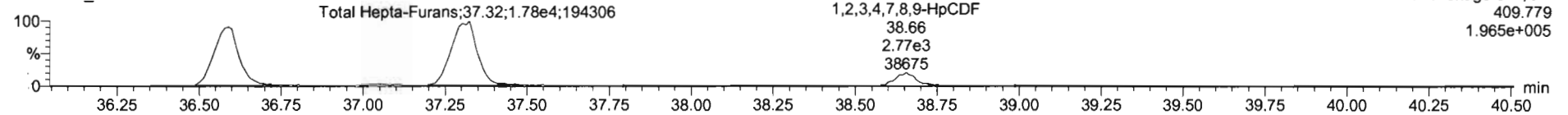
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1,2,3,4,6,7,8-HpCDF

201126R1_11

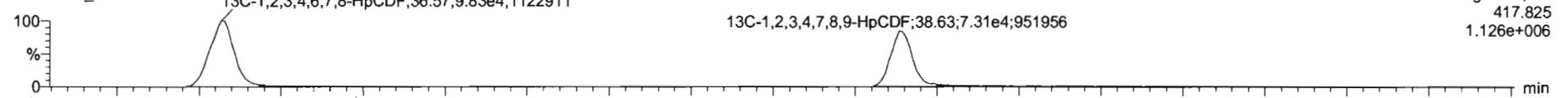


201126R1_11

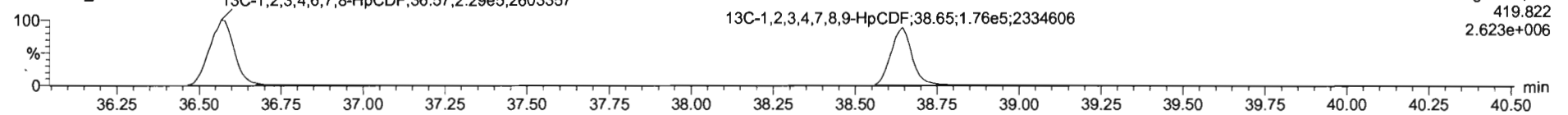


13C-1,2,3,4,6,7,8-HpCDF

201126R1_11

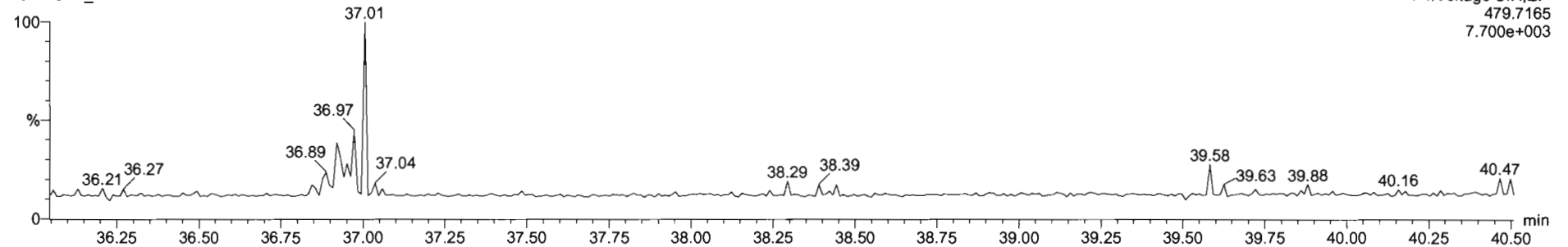


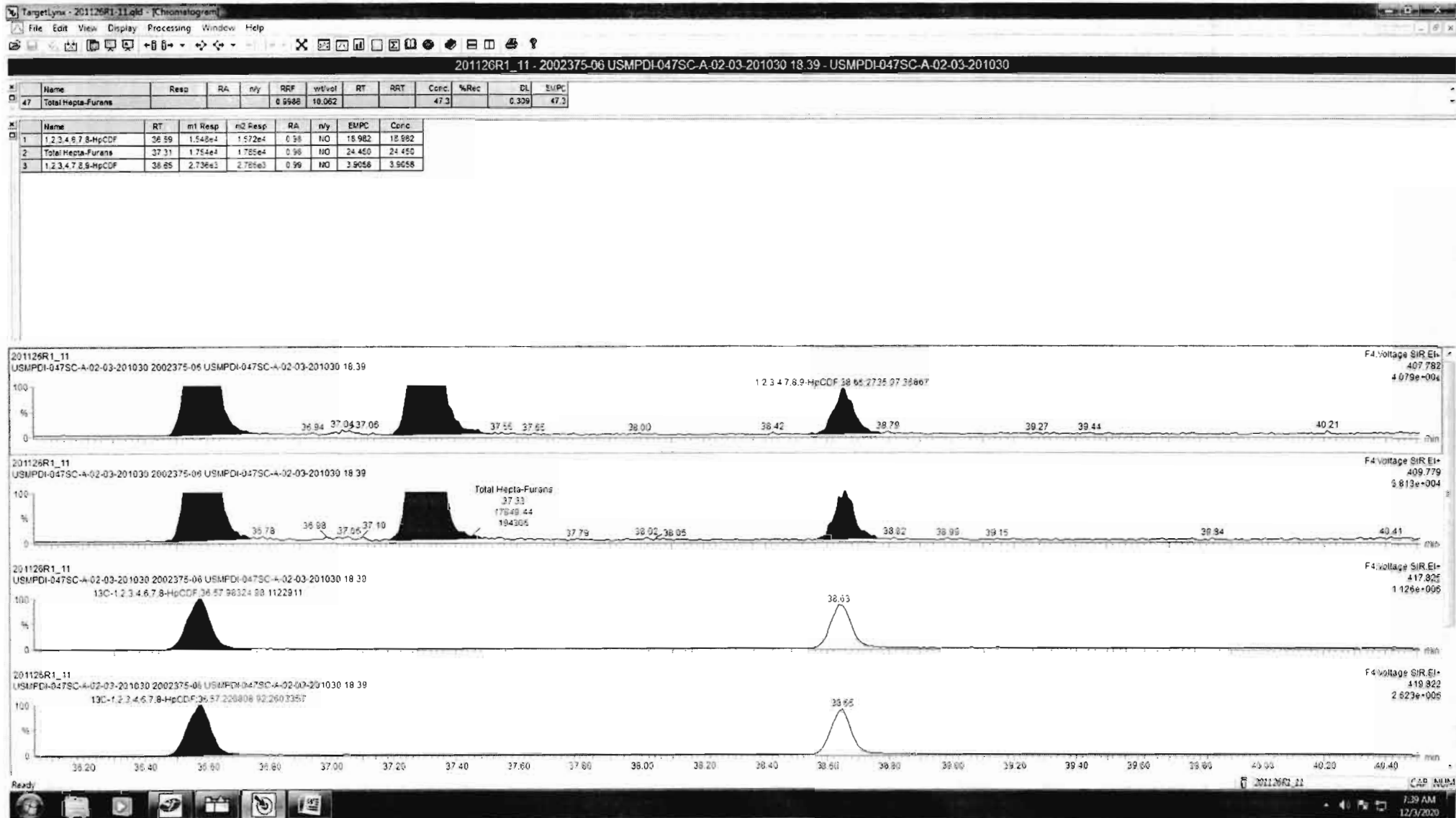
201126R1_11



DPE4

201126R1_11



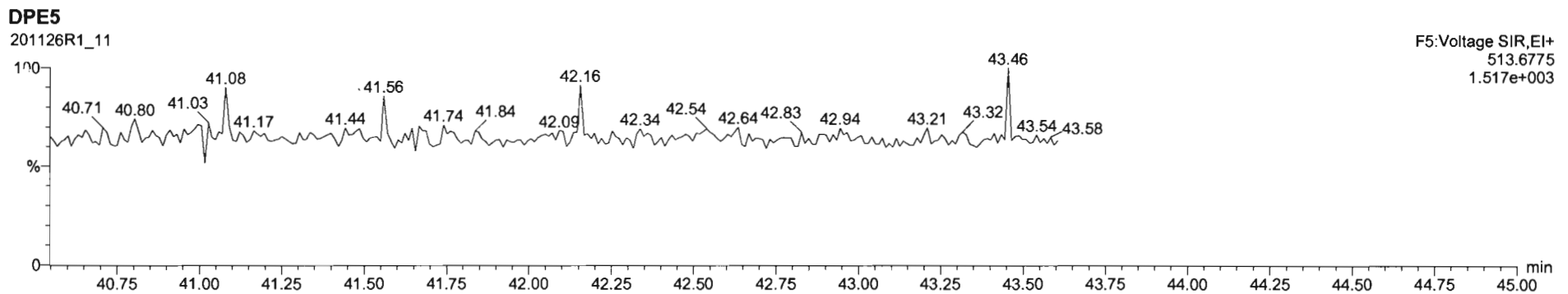
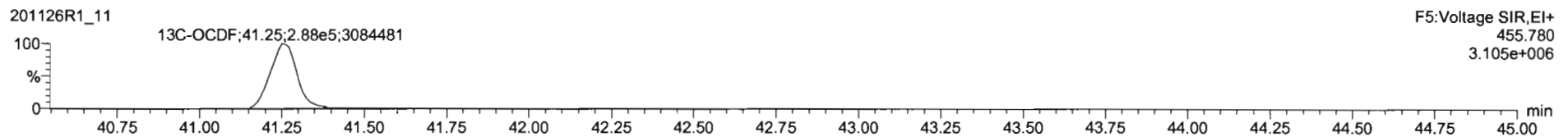
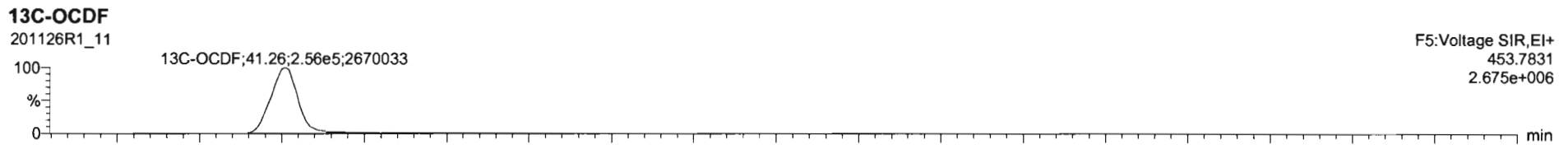
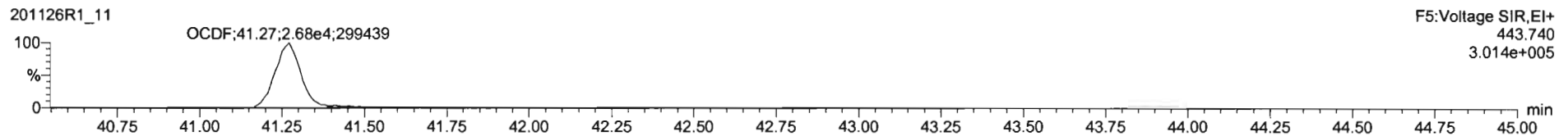
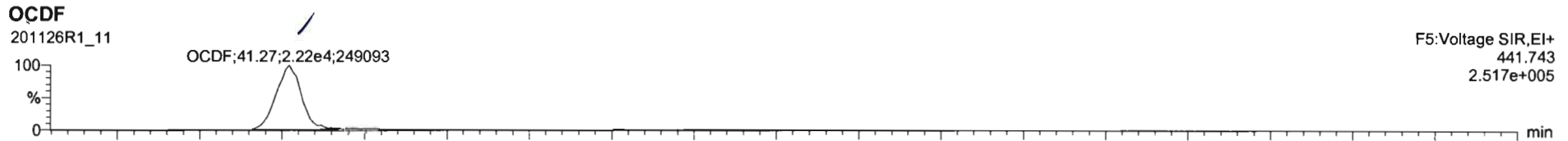


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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

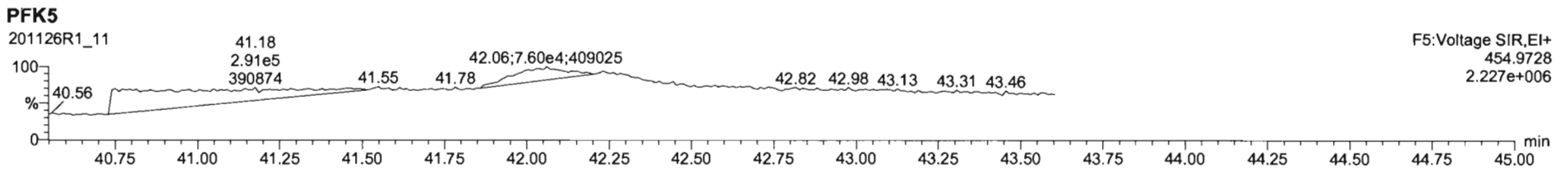
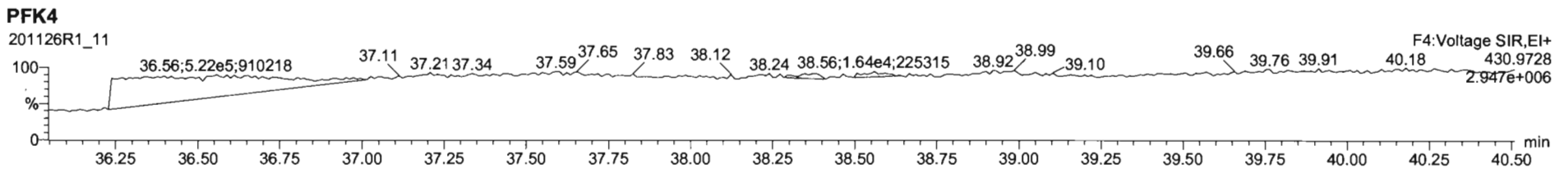
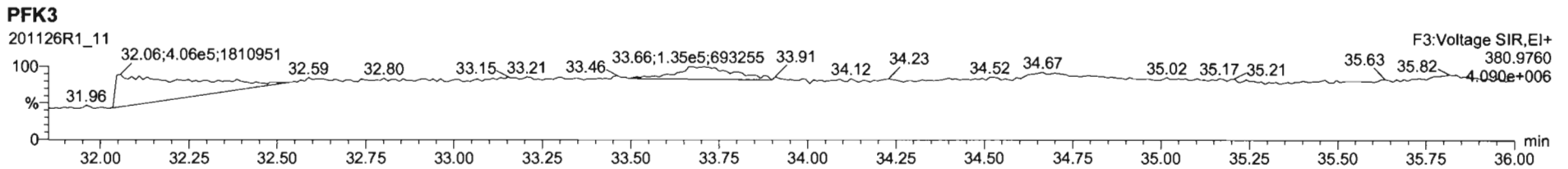
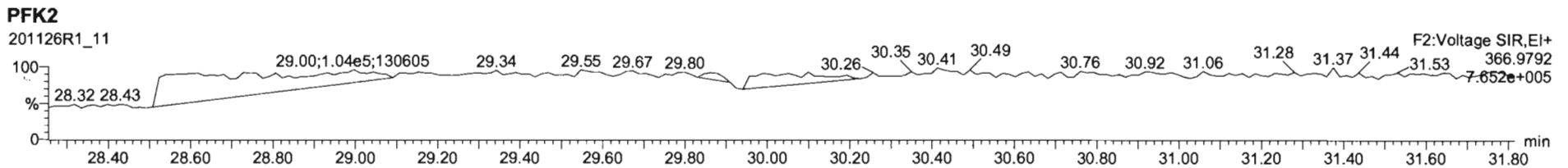
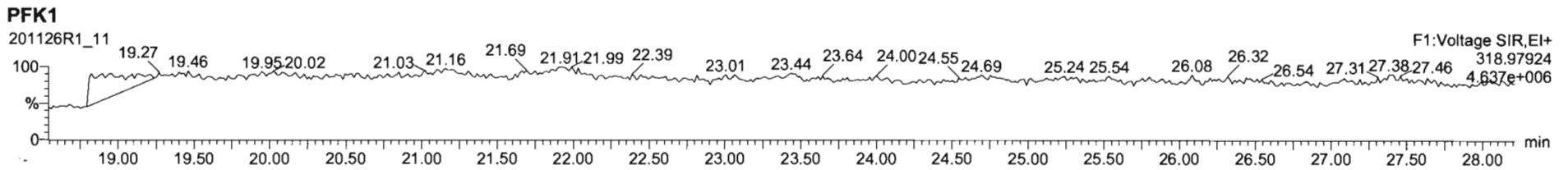
Name: 201126R1_11, Date: 26-Nov-2020, Time: 16:05:26, ID: 2002375-06 USMPDI-047SC-A-02-03-201030 18.39, Description: USMPDI-047SC-A-02-03-201030



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Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
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Dataset: U:\VG12.PRO\Results\201206R1\201206R1_10.qld

Last Altered: Monday, December 07, 2020 3:03:42 PM Pacific Standard Time
Printed: Monday, December 07, 2020 3:04:02 PM Pacific Standard Time

GPB 12/07/2020

C7 12/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201206R1_10, Date: 06-Dec-2020, Time: 16:53:15, ID: 2002375-07RE1 USMPDI-047SC-A-03-04-201030 17.24, Description: USMPDI-047SC-A-03-04-201030

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	4.36e3	0.62	YES	0.980	10.059	26.010	25.99	1.001	1.001	0.76861		0.0402	0.675
2	2 1,2,3,7,8-PeCDD	5.02e3	0.65	NO	0.932	10.059	30.758	30.76	1.001	1.001	1.2328		0.145	1.23
3	3 1,2,3,4,7,8-HxCDD	4.86e3	1.31	NO	1.02	10.059	34.062	34.05	1.001	1.000	1.4593		0.187	1.46
4	4 1,2,3,6,7,8-HxCDD	2.92e4	1.28	NO	0.902	10.059	34.188	34.18	1.001	1.000	8.6159		0.197	8.62
5	5 1,2,3,7,8,9-HxCDD	1.20e4	1.23	NO	0.954	10.059	34.450	34.45	1.000	1.000	3.4146		0.206	3.41
6	6 1,2,3,4,6,7,8-HpCDD	5.06e5	1.04	NO	0.918	10.059	37.924	37.92	1.000	1.000	174.58		0.854	175
7	7 OCDD	4.31e6	0.89	NO	0.866	10.059	40.839	40.84	1.000	1.000	2130.5		0.601	2130
8	8 2,3,7,8-TCDF	6.16e5	0.76	NO	0.848	10.059	25.273	25.30	1.000	1.001	91.061		0.109	91.1
9	9 1,2,3,7,8-PeCDF	7.92e5	1.57	NO	0.960	10.059	29.464	29.48	1.000	1.001	126.99		0.427	127
10	10 2,3,4,7,8-PeCDF	4.39e5	1.59	NO	1.07	10.059	30.552	30.55	1.001	1.000	63.836		0.380	63.8
11	11 1,2,3,4,7,8-HxCDF	9.18e5	1.23	NO	0.986	10.059	33.163	33.16	1.000	1.000	202.81		0.214	203
12	12 1,2,3,6,7,8-HxCDF	2.77e5	1.25	NO	1.04	10.059	33.298	33.29	1.001	1.000	56.014		0.198	56.0
13	13 2,3,4,6,7,8-HxCDF	6.30e4	1.24	NO	1.02	10.059	33.958	33.97	1.001	1.001	14.370		0.236	14.4
14	14 1,2,3,7,8,9-HxCDF	3.94e4	1.17	NO	0.991	10.059	34.942	34.96	1.000	1.001	9.9542		0.311	9.95
15	15 1,2,3,4,6,7,8-HpCDF	4.31e5	1.02	NO	1.05	10.059	36.504	36.51	1.000	1.001	117.53		0.299	118
16	16 1,2,3,4,7,8,9-HpCDF	1.38e5	1.01	NO	1.18	10.059	38.562	38.56	1.000	1.000	42.985		0.329	43.0
17	17 OCDF	4.65e5	0.87	NO	0.896	10.059	41.121	41.12	1.000	1.000	204.17		0.207	204
18	18 13C-2,3,7,8-TCDD	1.15e6	0.78	NO	1.06	10.059	25.957	25.98	1.030	1.031	204.56	103	0.140	
19	19 13C-1,2,3,7,8-PeCDD	8.68e5	0.64	NO	0.785	10.059	30.724	30.73	1.219	1.220	207.66	104	0.246	
20	20 13C-1,2,3,4,7,8-HxCDD	6.49e5	1.27	NO	0.621	10.059	34.039	34.04	1.014	1.014	204.81	103	0.357	
21	21 13C-1,2,3,6,7,8-HxCDD	7.48e5	1.28	NO	0.734	10.059	34.160	34.17	1.017	1.017	199.50	100	0.302	
22	22 13C-1,2,3,7,8,9-HxCDD	7.33e5	1.24	NO	0.723	10.059	34.442	34.44	1.026	1.026	198.76	100	0.307	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.28e5	1.05	NO	0.568	10.059	37.911	37.91	1.129	1.129	216.58	109	0.517	
24	24 13C-OCDD	9.30e5	0.88	NO	0.496	10.059	40.822	40.83	1.216	1.216	367.40	92.4	0.399	
25	25 13C-2,3,7,8-TCDF	1.59e6	0.77	NO	0.919	10.059	25.267	25.27	1.003	1.003	215.77	109	0.192	
26	26 13C-1,2,3,7,8-PeCDF	1.29e6	1.59	NO	0.715	10.059	29.454	29.46	1.169	1.169	225.89	114	0.460	
27	27 13C-2,3,4,7,8-PeCDF	1.28e6	1.57	NO	0.689	10.059	30.525	30.53	1.212	1.212	232.79	117	0.478	
28	28 13C-1,2,3,4,7,8-HxCDF	9.13e5	0.52	NO	0.873	10.059	33.152	33.15	0.987	0.987	204.73	103	0.414	
29	29 13C-1,2,3,6,7,8-HxCDF	9.47e5	0.51	NO	0.933	10.059	33.280	33.28	0.991	0.991	198.82	100	0.388	
30	30 13C-2,3,4,6,7,8-HxCDF	8.55e5	0.51	NO	0.843	10.059	33.941	33.94	1.011	1.011	198.70	99.9	0.429	
31	31 13C-1,2,3,7,8,9-HxCDF	7.95e5	0.52	NO	0.780	10.059	34.932	34.93	1.040	1.040	199.70	100	0.464	

Dataset: U:\VG12.PRO\Results\201206R1\201206R1_10.qld

Last Altered: Monday, December 07, 2020 3:03:42 PM Pacific Standard Time
Printed: Monday, December 07, 2020 3:04:02 PM Pacific Standard Time

Name: 201206R1_10, Date: 06-Dec-2020, Time: 16:53:15, ID: 2002375-07RE1 USMPDI-047SC-A-03-04-201030 17.24, Description: USMPDI-047SC-A-03-04-201030

#	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	6.95e5	0.44	NO	0.726	10.059	36.494	36.49	1.087	1.086	187.40	94.2	0.475	
33	13C-1,2,3,4,7,8,9-HpCDF	5.41e5	0.45	NO	0.491	10.059	38.542	38.55	1.148	1.148	216.00	109	0.703	
34	13C-OCDF	1.01e6	0.88	NO	0.565	10.059	41.101	41.11	1.224	1.224	350.56	88.2	0.334	
35	37Cl-2,3,7,8-TCDD	5.01e5			1.22	10.059	25.985	25.99	1.031	1.032	77.260	97.1	0.0616	
36	13C-1,2,3,4-TCDD	1.06e6	0.79	NO	1.00	10.059	25.200	25.20	1.000	1.000	198.83	100	0.148	
37	13C-1,2,3,4-TCDF	1.59e6	0.80	NO	1.00	10.059	23.660	23.67	1.000	1.000	198.83	100	0.177	
38	13C-1,2,3,4,6,9-HxCDF	1.01e6	0.52	NO	1.00	10.059	33.580	33.58	1.000	1.000	198.83	100	0.362	
39	Total Tetra-Dioxins				0.980	10.059	24.620		0.000		6.2969		0.0462	7.19
40	Total Penta-Dioxins				0.932	10.059	29.960		0.000		13.116		0.145	13.1
41	Total Hexa-Dioxins				0.902	10.059	33.635		0.000		83.161		0.208	83.2
42	Total Hepta-Dioxins				0.918	10.059	37.640		0.000		389.20		0.854	389
43	Total Tetra-Furans				0.848	10.059	23.610		0.000		251.37		0.109	252
44	1st Func. Penta-Furans				0.960	10.059	26.930		0.000		18.007		0.0331	18.0
45	Total Penta-Furans				0.960	10.059	29.275		0.000		317.20		0.425	317
46	Total Hexa-Furans				1.02	10.059	33.555		0.000		384.21		0.234	384
47	Total Hepta-Furans				1.05	10.059	37.835		0.000		269.58		0.330	270

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201206R1\201206R1_10.qld

Last Altered: Monday, December 07, 2020 3:03:42 PM Pacific Standard Time

Printed: Monday, December 07, 2020 3:04:02 PM 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: 201206R1_10, Date: 06-Dec-2020, Time: 16:53:15, ID: 2002375-07RE1 USMPDI-047SC-A-03-04-201030 17.24, Description: USMPDI-047SC-A-03-04-201030

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.09	4.173e4	5.330e4	4.252e3	5.220e3	0.81	NO	9.472e3	1.6692	1.6692	0.0462
2	Total Tetra-Dioxins	22.48	2.199e4	2.854e4	1.767e3	2.379e3	0.74	NO	4.147e3	0.73078	0.73078	0.0462
3	Total Tetra-Dioxins	23.01	1.515e4	1.935e4	1.199e3	1.608e3	0.75	NO	2.807e3	0.49467	0.49467	0.0462
4	Total Tetra-Dioxins	23.86	2.103e4	2.584e4	1.419e3	1.931e3	0.73	NO	3.350e3	0.59039	0.59039	0.0462
5	Total Tetra-Dioxins	24.09	1.034e4	1.499e4	8.644e2	1.136e3	0.76	NO	2.001e3	0.35256	0.35256	0.0462
6	Total Tetra-Dioxins	24.32	1.953e4	2.298e4	1.410e3	1.782e3	0.79	NO	3.192e3	0.56245	0.56245	0.0462
7	Total Tetra-Dioxins	24.52	3.747e3	6.120e3	3.851e2	4.361e2	0.88	NO	8.212e2	0.14472	0.14472	0.0462
8	Total Tetra-Dioxins	24.83	9.718e3	1.282e4	7.188e2	8.823e2	0.81	NO	1.601e3	0.28217	0.28217	0.0462
9	Total Tetra-Dioxins	24.93	8.867e3	9.093e3	4.702e2	6.200e2	0.76	NO	1.090e3	0.19212	0.19212	0.0462
10	Total Tetra-Dioxins	25.23	3.950e3	3.817e3	1.860e2	2.314e2	0.80	NO	4.174e2	0.073555	0.073555	0.0462
11	Total Tetra-Dioxins	25.31	9.089e3	9.679e3	6.436e2	7.006e2	0.92	YES	0.000e0	0.00000	0.21854	0.0462
12	Total Tetra-Dioxins	25.73	2.616e4	3.973e4	2.315e3	2.908e3	0.80	NO	5.223e3	0.92040	0.92040	0.0462
13	2,3,7,8-TCDD	25.99	2.437e4	3.837e4	1.665e3	2.696e3	0.62	YES	4.362e3	0.00000	0.67462	0.0462
14	Total Tetra-Dioxins	26.33	8.732e3	8.758e3	5.093e2	5.801e2	0.88	NO	1.089e3	0.19197	0.19197	0.0462
15	Total Tetra-Dioxins	26.88	4.454e3	6.448e3	2.221e2	2.995e2	0.74	NO	5.216e2	0.091922	0.091922	0.0462

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.47	7.279e4	1.135e5	5.411e3	9.320e3	0.58	NO	1.473e4	3.6191	3.6191	0.145
2	Total Penta-Dioxins	28.96	2.331e4	4.043e4	1.463e3	2.619e3	0.56	NO	4.083e3	1.0030	1.0030	0.145
3	Total Penta-Dioxins	29.48	5.957e4	8.742e4	3.070e3	4.768e3	0.64	NO	7.838e3	1.9257	1.9257	0.145
4	Total Penta-Dioxins	29.66	5.197e4	7.592e4	2.778e3	4.207e3	0.66	NO	6.985e3	1.7161	1.7161	0.145
5	Total Penta-Dioxins	29.72	2.412e4	4.737e4	9.996e2	1.800e3	0.56	NO	2.800e3	0.68786	0.68786	0.145
6	Total Penta-Dioxins	29.97	4.282e4	6.050e4	3.003e3	4.334e3	0.69	NO	7.337e3	1.8025	1.8025	0.145
7	Total Penta-Dioxins	30.28	9.775e3	1.272e4	5.694e2	8.626e2	0.66	NO	1.432e3	0.35182	0.35182	0.145
8	1,2,3,7,8-PeCDD	30.76	4.008e4	5.614e4	1.976e3	3.042e3	0.65	NO	5.018e3	1.2328	1.2328	0.145
9	Total Penta-Dioxins	30.83	1.042e4	1.627e4	5.122e2	8.341e2	0.61	NO	1.346e3	0.33076	0.33076	0.145
10	Total Penta-Dioxins	31.12	1.236e4	1.841e4	7.187e2	1.099e3	0.65	NO	1.818e3	0.44662	0.44662	0.145

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Name: 201206R1_10, Date: 06-Dec-2020, Time: 16:53:15, ID: 2002375-07RE1 USMPDI-047SC-A-03-04-201030 17.24, Description: USMPDI-047SC-A-03-04-201030

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.44	1.142e6	8.837e5	5.208e4	4.086e4	1.27	NO	9.294e4	28.847	28.847	0.208
2	Total Hexa-Dioxins	33.03	1.072e5	8.290e4	5.332e3	3.912e3	1.36	NO	9.244e3	2.8690	2.8690	0.208
3	Total Hexa-Dioxins	33.33	9.852e5	8.030e5	6.453e4	5.104e4	1.26	NO	1.156e5	35.870	35.870	0.208
4	Total Hexa-Dioxins	33.40	5.077e4	4.991e4	2.422e3	2.109e3	1.15	NO	4.531e3	1.4063	1.4063	0.208
5	1,2,3,4,7,8-HxCDD	34.05	4.918e4	4.508e4	2.759e3	2.100e3	1.31	NO	4.858e3	1.4593	1.4593	0.187
6	1,2,3,6,7,8-HxCDD	34.18	3.009e5	2.448e5	1.638e4	1.285e4	1.28	NO	2.923e4	8.6159	8.6159	0.197
7	Total Hexa-Dioxins	34.34	2.787e4	1.876e4	1.273e3	9.142e2	1.39	NO	2.187e3	0.67889	0.67889	0.208
8	1,2,3,7,8,9-HxCDD	34.45	1.145e5	9.784e4	6.626e3	5.388e3	1.23	NO	1.201e4	3.4146	3.4146	0.206

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.88	5.032e6	4.860e6	3.155e5	3.065e5	1.03	NO	6.220e5	214.62	214.62	0.854
2	1,2,3,4,6,7,8-HpCDD	37.92	4.410e6	4.348e6	2.575e5	2.484e5	1.04	NO	5.059e5	174.58	174.58	0.854

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Name: 201206R1_10, Date: 06-Dec-2020, Time: 16:53:15, ID: 2002375-07RE1 USMPDI-047SC-A-03-04-201030 17.24, Description: USMPDI-047SC-A-03-04-201030

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.87	2.482e4	3.129e4	2.088e3	2.982e3	0.70	NO	5.070e3	0.74929	0.74929	0.109
2	Total Tetra-Furans	20.43	5.431e4	7.307e4	5.179e3	6.473e3	0.80	NO	1.165e4	1.7220	1.7220	0.109
3	Total Tetra-Furans	21.22	1.361e5	1.670e5	1.221e4	1.622e4	0.75	NO	2.843e4	4.2011	4.2011	0.109
4	Total Tetra-Furans	21.59	2.992e4	4.121e4	2.399e3	3.317e3	0.72	NO	5.715e3	0.84461	0.84461	0.109
5	Total Tetra-Furans	21.69	1.016e5	1.345e5	1.109e4	1.451e4	0.76	NO	2.560e4	3.7836	3.7836	0.109
6	Total Tetra-Furans	21.80	4.488e4	6.186e4	2.813e3	3.689e3	0.76	NO	6.502e3	0.96088	0.96088	0.109
7	Total Tetra-Furans	22.15	5.974e5	7.714e5	5.987e4	7.991e4	0.75	NO	1.398e5	20.658	20.658	0.109
8	Total Tetra-Furans	22.62	2.343e5	3.251e5	2.103e4	2.810e4	0.75	NO	4.913e4	7.2601	7.2601	0.109
9	Total Tetra-Furans	22.77	5.232e4	8.301e4	4.903e3	7.152e3	0.69	NO	1.205e4	1.7815	1.7815	0.109
10	Total Tetra-Furans	22.99	1.453e5	1.944e5	1.193e4	1.677e4	0.71	NO	2.871e4	4.2427	4.2427	0.109
11	Total Tetra-Furans	23.44	2.586e4	2.801e4	1.785e3	2.433e3	0.73	NO	4.218e3	0.62331	0.62331	0.109
12	Total Tetra-Furans	23.52	3.342e4	4.691e4	2.851e3	3.821e3	0.75	NO	6.672e3	0.98603	0.98603	0.109
13	Total Tetra-Furans	23.79	2.508e5	3.333e5	3.471e4	4.570e4	0.76	NO	8.042e4	11.884	11.884	0.109
14	Total Tetra-Furans	24.07	7.784e3	9.742e3	6.604e2	8.834e2	0.75	NO	1.544e3	0.22814	0.22814	0.109
15	Total Tetra-Furans	24.26	2.831e6	3.733e6	2.265e5	3.000e5	0.75	NO	5.265e5	77.815	77.815	0.109
16	Total Tetra-Furans	24.59	1.170e5	1.406e5	7.994e3	1.034e4	0.77	NO	1.834e4	2.7097	2.7097	0.109
17	Total Tetra-Furans	24.71	2.002e4	2.531e4	1.345e3	1.907e3	0.71	NO	3.251e3	0.48045	0.48045	0.109
18	Total Tetra-Furans	24.83	1.707e4	2.192e4	1.218e3	1.609e3	0.76	NO	2.827e3	0.41781	0.41781	0.109
19	Total Tetra-Furans	25.02	3.119e4	4.193e4	2.316e3	2.836e3	0.82	NO	5.153e3	0.76150	0.76150	0.109
20	Total Tetra-Furans	25.17	3.448e5	4.406e5	2.097e4	2.753e4	0.76	NO	4.850e4	7.1669	7.1669	0.109
21	2,3,7,8-TCDF	25.30	3.633e6	4.838e6	2.670e5	3.491e5	0.76	NO	6.162e5	91.061	91.061	0.109
22	Total Tetra-Furans	25.61	1.409e5	1.828e5	1.329e4	1.818e4	0.73	NO	3.147e4	4.6511	4.6511	0.109
23	Total Tetra-Furans	25.88	3.440e4	4.749e4	2.293e3	3.196e3	0.72	NO	5.490e3	0.81127	0.81127	0.109
24	Total Tetra-Furans	26.85	3.839e4	4.709e4	2.708e3	3.173e3	0.85	NO	5.881e3	0.86909	0.86909	0.109
25	Total Tetra-Furans	27.06	5.457e4	3.531e4	3.497e3	2.052e3	1.70	YES	0.000e0	0.00000	0.53679	0.109
26	Total Tetra-Furans	27.22	2.251e5	3.252e5	1.342e4	1.841e4	0.73	NO	3.183e4	4.7040	4.7040	0.109

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	26.84	1.145e6	7.156e5	6.894e4	4.295e4	1.61	NO	1.119e5	18.007	18.007	0.0331

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Name: 201206R1_10, Date: 06-Dec-2020, Time: 16:53:15, ID: 2002375-07RE1 USMPDI-047SC-A-03-04-201030 17.24, Description: USMPDI-047SC-A-03-04-201030

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.32	1.367e5	9.411e4	7.765e3	4.904e3	1.58	NO	1.267e4	2.0387	2.0387	0.425
2	Total Penta-Furans	28.48	3.971e6	2.528e6	2.422e5	1.516e5	1.60	NO	3.938e5	63.371	63.371	0.425
3	Total Penta-Furans	28.96	2.572e4	1.488e4	1.721e3	1.066e3	1.61	NO	2.787e3	0.44848	0.44848	0.425
4	Total Penta-Furans	29.11	2.684e5	1.718e5	1.912e4	1.173e4	1.63	NO	3.085e4	4.9637	4.9637	0.425
5	Total Penta-Furans	29.28	9.292e5	5.660e5	4.587e4	2.923e4	1.57	NO	7.509e4	12.085	12.085	0.425
6	1,2,3,7,8-PeCDF	29.48	8.911e6	5.718e6	4.840e5	3.082e5	1.57	NO	7.922e5	126.99	126.99	0.427
7	Total Penta-Furans	29.73	2.864e6	1.828e6	1.504e5	9.435e4	1.59	NO	2.448e5	39.388	39.388	0.425
8	Total Penta-Furans	30.29	1.891e4	1.228e4	8.617e2	5.623e2	1.53	NO	1.424e3	0.22916	0.22916	0.425
9	Total Penta-Furans	30.36	6.738e4	2.952e4	2.843e3	1.659e3	1.71	NO	4.502e3	0.72442	0.72442	0.425
10	2,3,4,7,8-PeCDF	30.55	4.746e6	3.106e6	2.695e5	1.699e5	1.59	NO	4.394e5	63.836	63.836	0.380
1	Total Penta-Furans	31.48	2.174e5	1.362e5	1.187e4	7.573e3	1.57	NO	1.944e4	3.1288	3.1288	0.425

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.91	4.255e5	3.309e5	2.057e4	1.661e4	1.24	NO	3.718e4	8.2575	8.2575	0.234
2	Total Hexa-Furans	32.08	1.969e6	1.568e6	9.254e4	7.429e4	1.25	NO	1.668e5	37.053	37.053	0.234
3	Total Hexa-Furans	32.48	4.640e4	3.927e4	2.463e3	2.001e3	1.23	NO	4.463e3	0.99127	0.99127	0.234
4	Total Hexa-Furans	32.70	2.044e6	1.623e6	9.348e4	7.535e4	1.24	NO	1.688e5	37.495	37.495	0.234
5	Total Hexa-Furans	33.04	8.064e4	7.153e4	3.592e3	3.216e3	1.12	NO	6.807e3	1.5119	1.5119	0.234
6	1,2,3,4,7,8-HxCDF	33.16	9.835e6	7.946e6	5.063e5	4.116e5	1.23	NO	9.179e5	202.81	202.81	0.214
7	1,2,3,6,7,8-HxCDF	33.29	2.806e6	2.346e6	1.540e5	1.233e5	1.25	NO	2.772e5	56.014	56.014	0.198
8	Total Hexa-Furans	33.59	5.406e4	4.904e4	3.547e3	3.021e3	1.17	NO	6.568e3	1.4588	1.4588	0.234
9	2,3,4,6,7,8-HxCDF	33.97	5.937e5	4.697e5	3.491e4	2.813e4	1.24	NO	6.304e4	14.370	14.370	0.236
10	1,2,3,7,8,9-HxCDF	34.96	8.966e5	7.246e5	2.130e4	1.814e4	1.17	NO	3.944e4	9.9542	9.9542	0.311
11	Total Hexa-Furans	34.97	9.070e5	7.471e5	3.589e4	2.851e4	1.26	NO	6.440e4	14.303	14.303	0.234

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Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.51	3.474e6	3.451e6	2.176e5	2.133e5	1.02	NO	4.310e5	117.53	117.53	0.299
2	Total Hepta-Furans	36.96	6.251e4	6.433e4	3.926e3	3.841e3	1.02	NO	7.767e3	2.3811	2.3811	0.330
3	Total Hepta-Furans	37.22	2.704e6	2.687e6	1.759e5	1.721e5	1.02	NO	3.480e5	106.69	106.69	0.330
4	1,2,3,4,7,8,9-HpCDF	38.56	1.290e6	1.284e6	6.927e4	6.839e4	1.01	NO	1.377e5	42.985	42.985	0.329

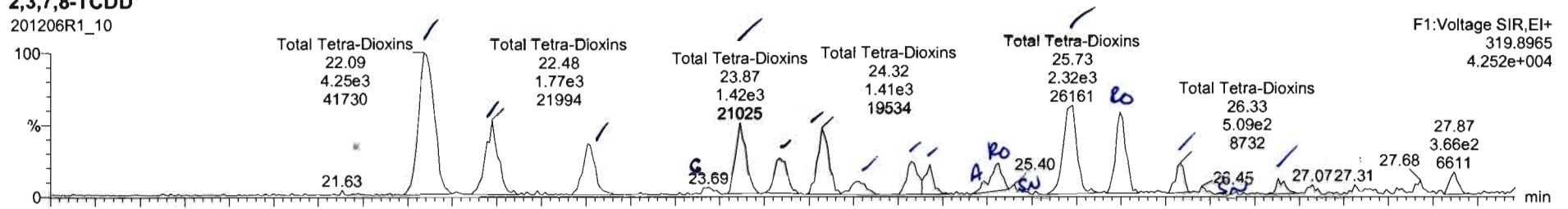
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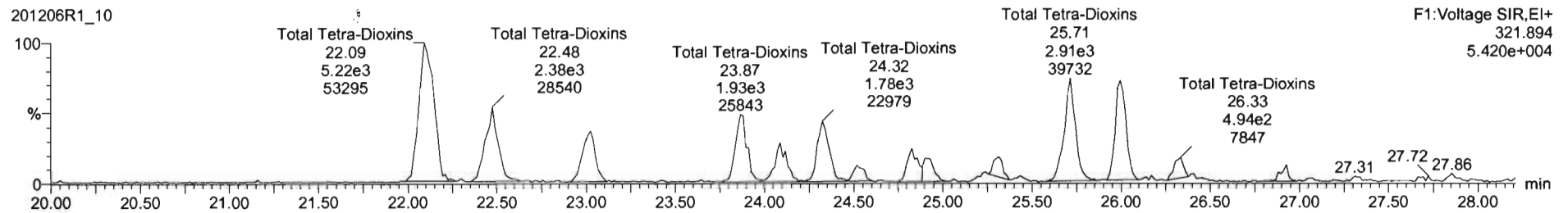
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2,3,7,8-TCDD

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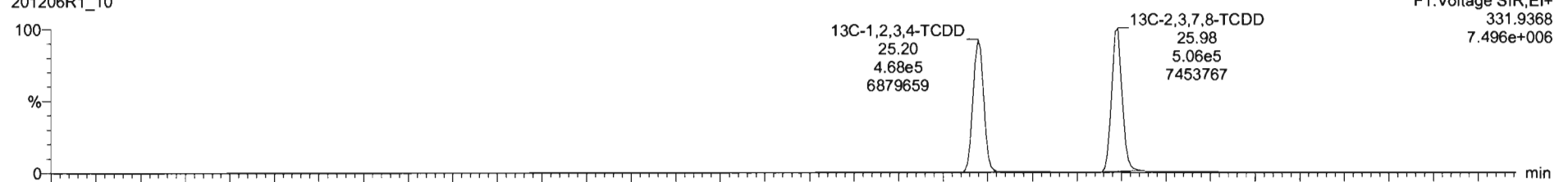


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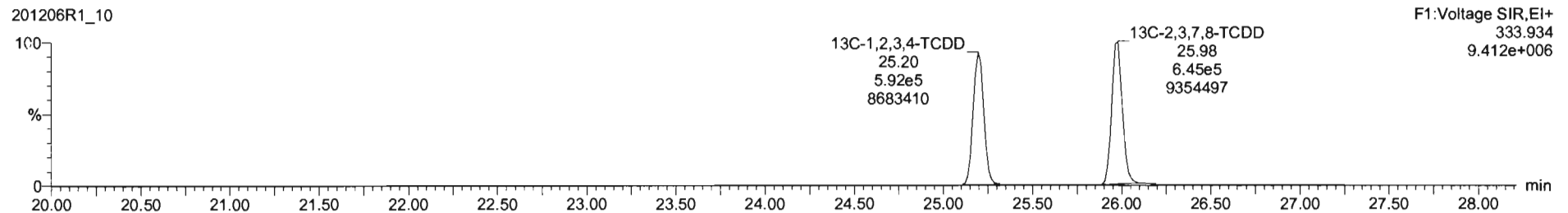


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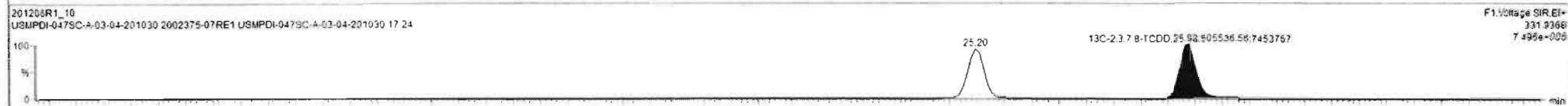
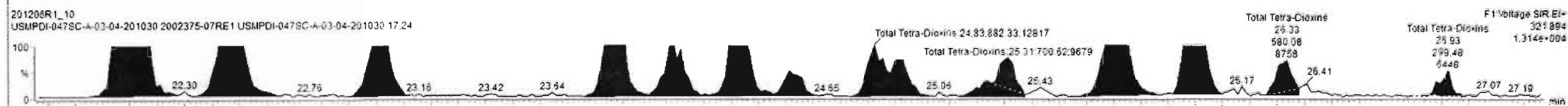
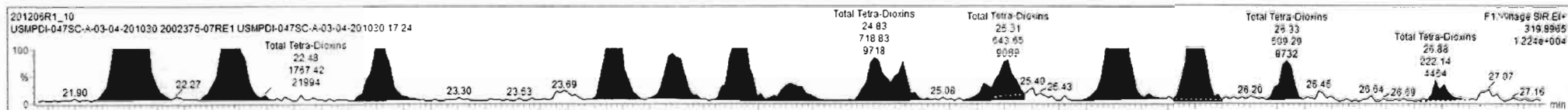


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Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.6805	10.059			6.30		0.0462	7.19

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc	
1	Total Tetra-Dioxins	22.09	4.252e3	5.270e3	0.81	NO	1.6692	1.6692
2	Total Tetra-Dioxins	22.48	1.767e3	2.379e3	0.74	NO	0.73076	0.73078
3	Total Tetra-Dioxins	23.01	1.199e3	1.606e3	0.75	NO	0.49467	0.49467
4	Total Tetra-Dioxins	23.88	1.419e3	1.931e3	0.73	NO	0.59029	0.59039
5	Total Tetra-Dioxins	24.09	8.644e2	1.136e3	0.76	NO	0.35256	0.35258
6	Total Tetra-Dioxins	24.32	1.410e3	1.782e3	0.79	NO	0.56245	0.56245
7	Total Tetra-Dioxins	24.52	3.851e2	4.381e2	0.88	NO	0.14472	0.14472
8	Total Tetra-Dioxins	24.83	7.188e2	8.823e2	0.81	NO	0.28217	0.28217
9	Total Tetra-Dioxins	24.93	4.702e2	6.200e2	0.76	NO	0.19212	0.19212
10	Total Tetra-Dioxins	25.23	1.860e2	2.314e2	0.80	NO	0.073555	0.073555
11	Total Tetra-Dioxins	25.31	6.436e2	7.006e2	0.92	YES	0.21954	0.00000
12	Total Tetra-Dioxins	25.73	2.315e3	2.908e3	0.80	NO	0.82040	0.82040
13	2,3,7,8-TCDD	25.96	1.865e3	2.696e3	0.62	YES	0.67462	0.00000
14	Total Tetra-Dioxins	26.33	5.091e2	5.801e2	0.88	NO	0.19197	0.19197
15	Total Tetra-Dioxins	26.88	2.221e2	2.595e2	0.74	NO	0.091922	0.091922



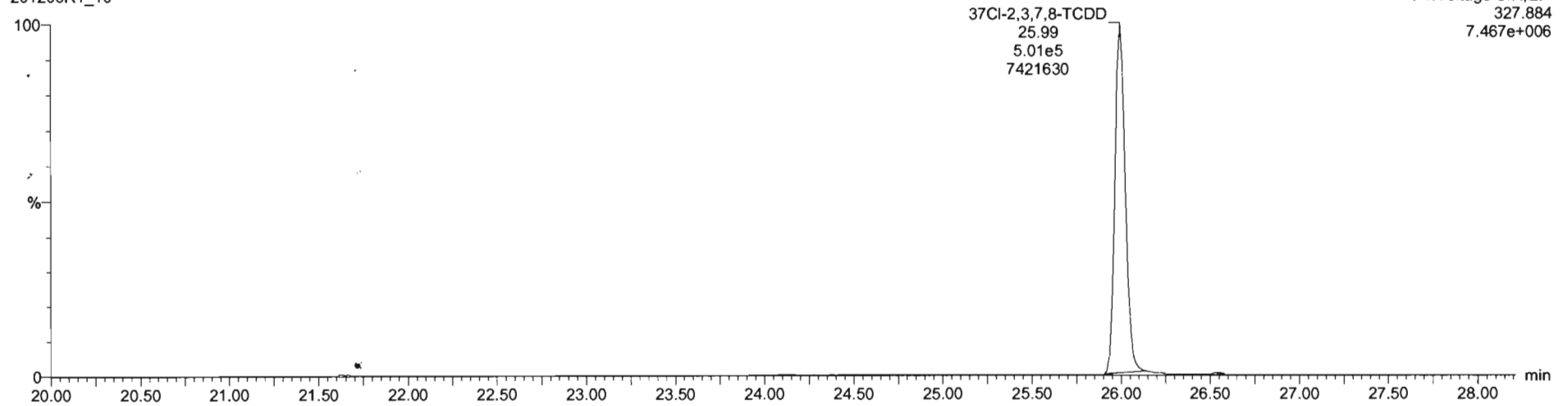
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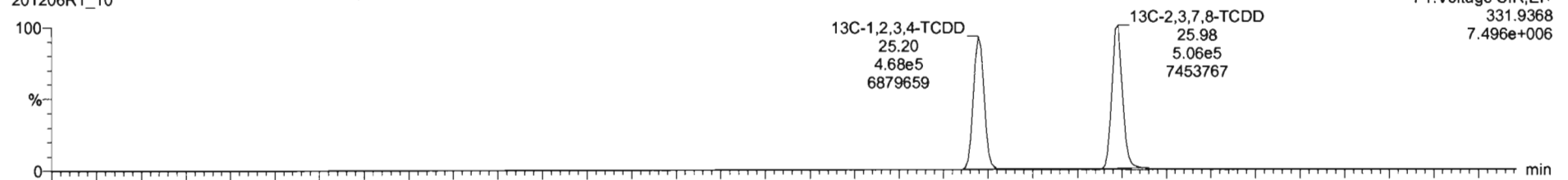
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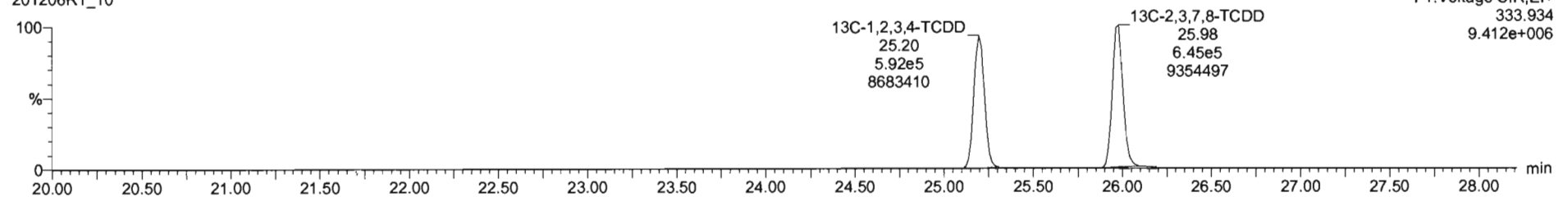


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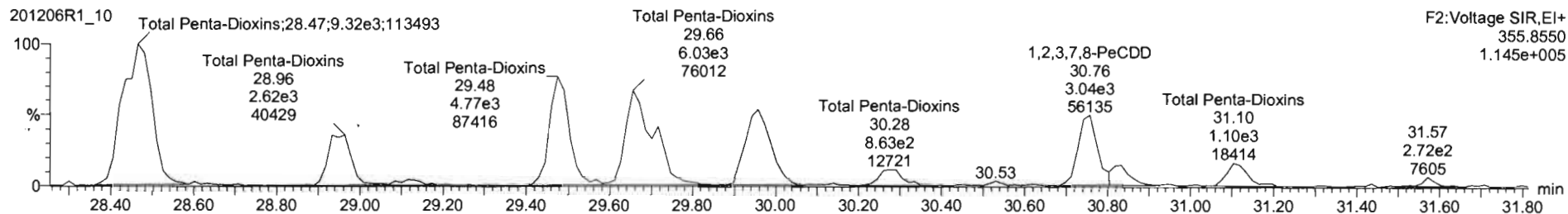
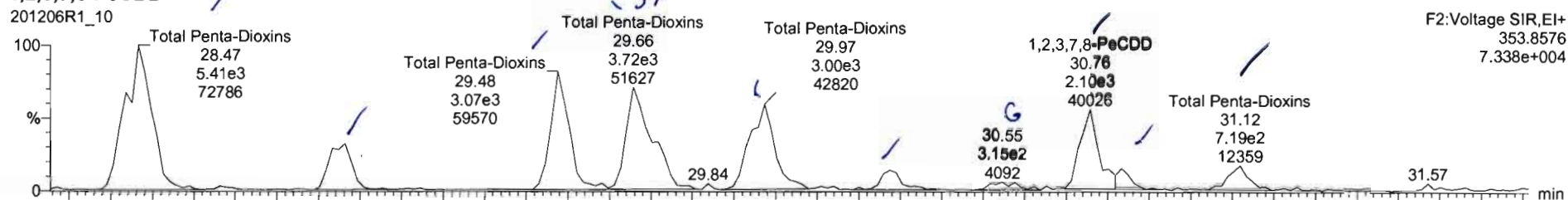


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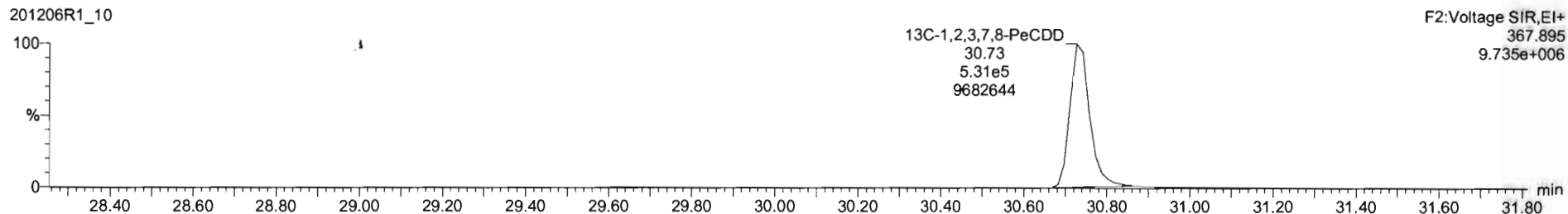
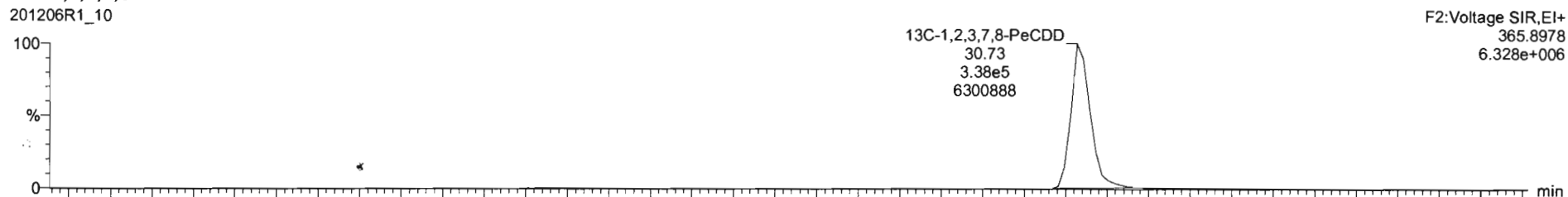
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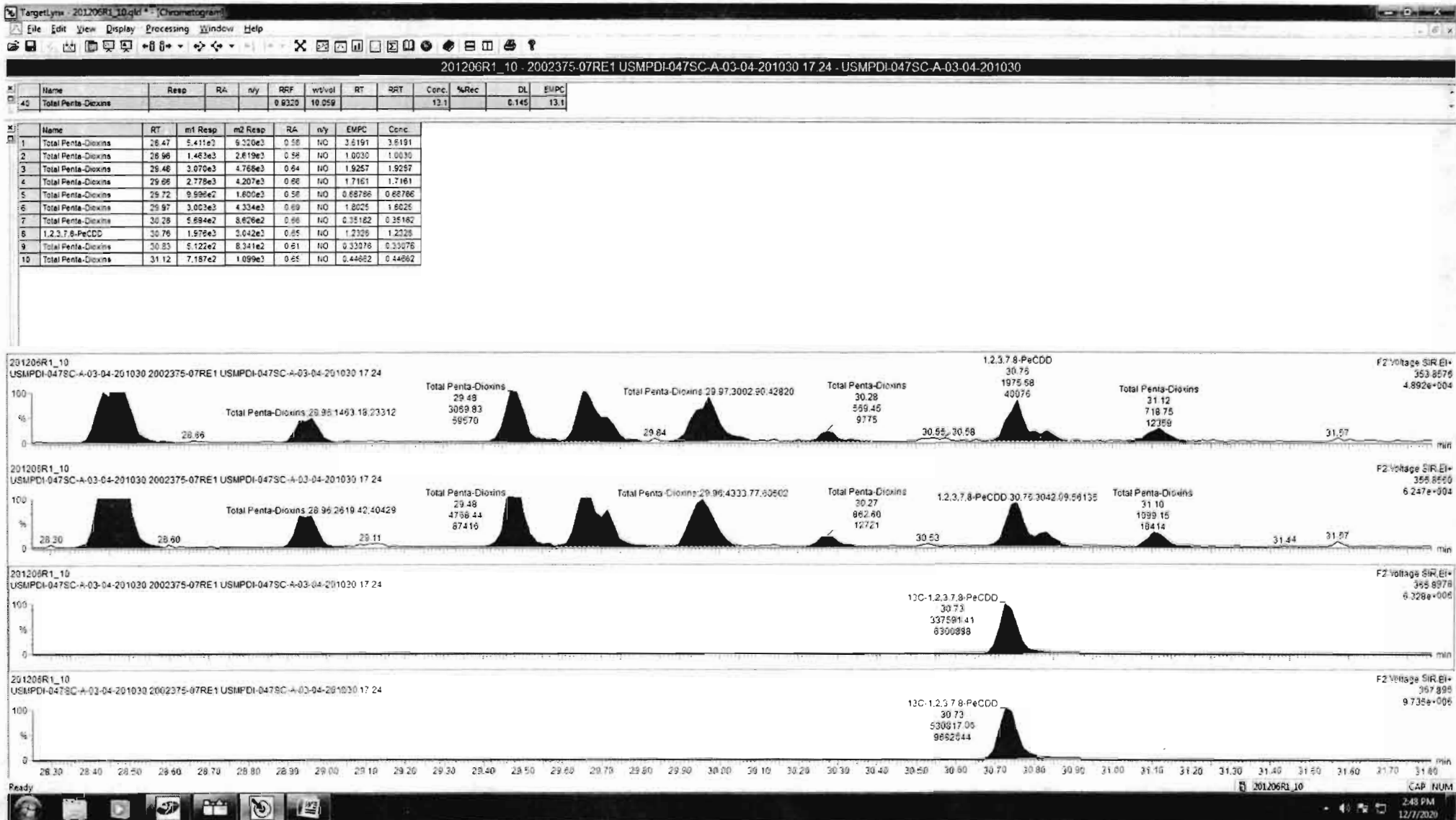
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1,2,3,7,8-PeCDD



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





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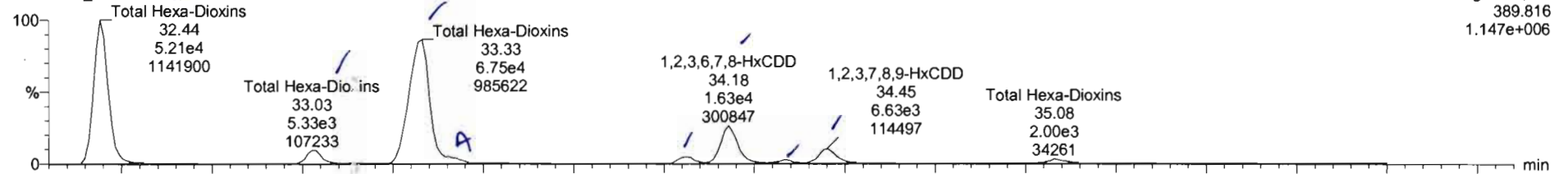
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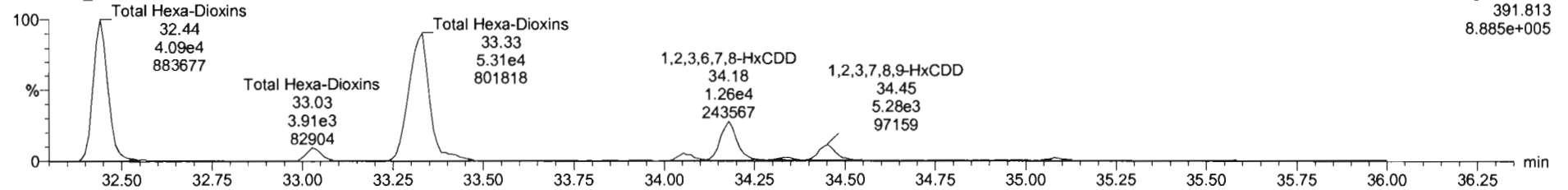
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1,2,3,4,7,8-HxCDD

201206R1_10

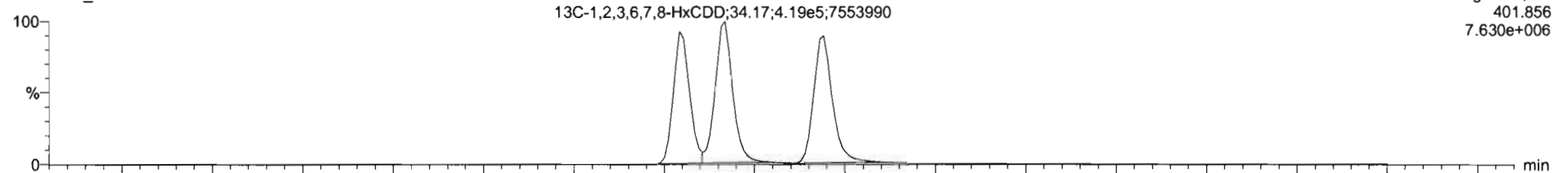


201206R1_10

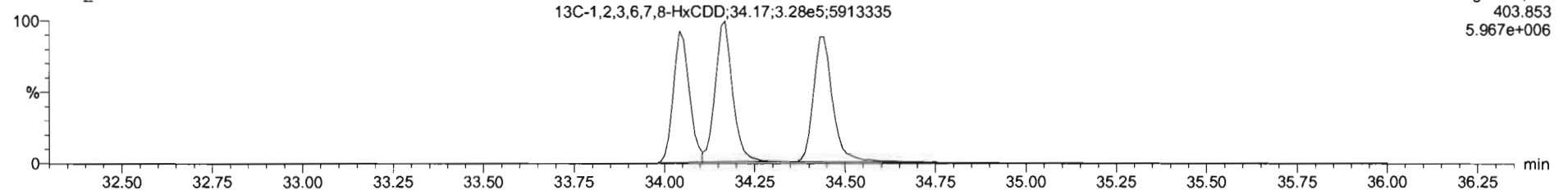


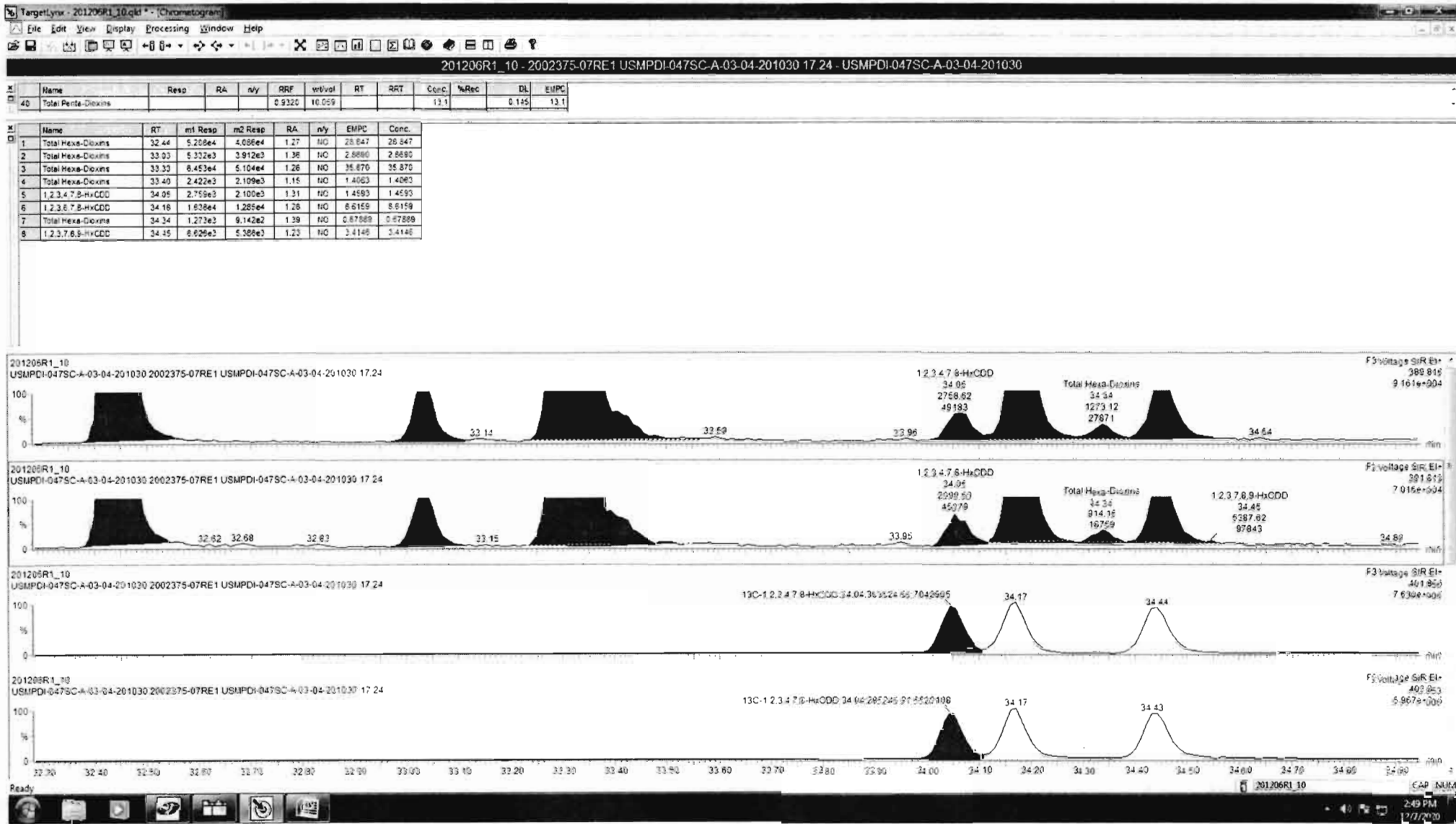
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201206R1_10



201206R1_10





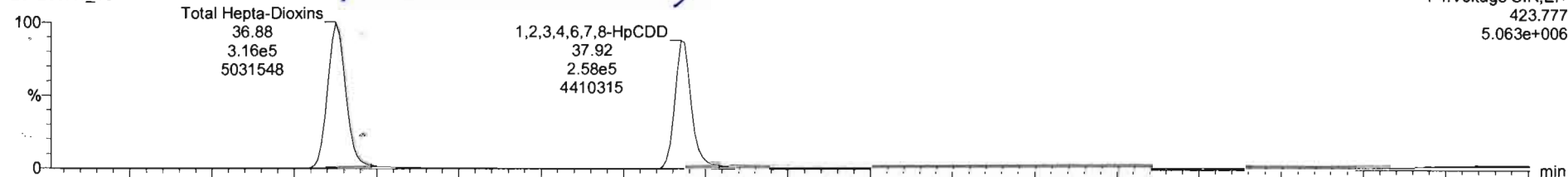
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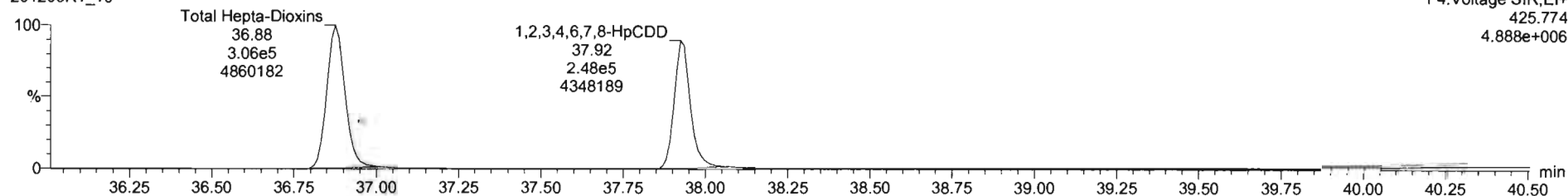
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1,2,3,4,6,7,8-HpCDD

201206R1_10

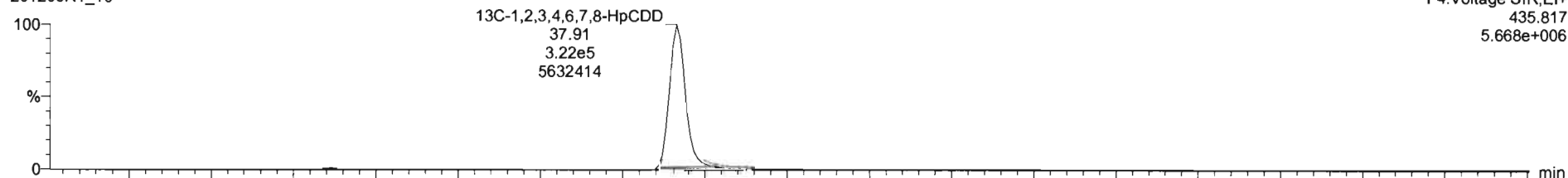


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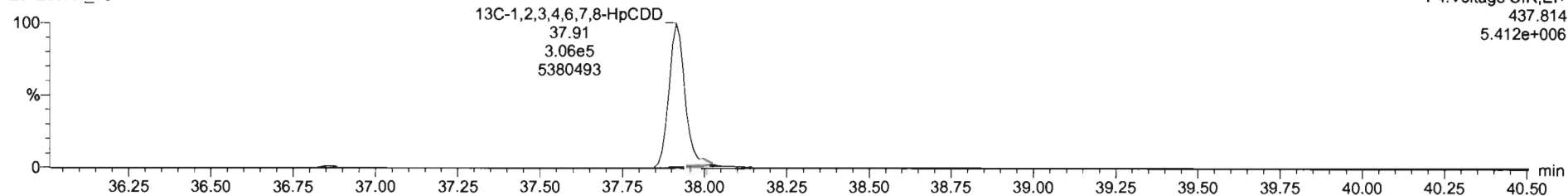


13C-1,2,3,4,6,7,8-HpCDD

201206R1_10



201206R1_10

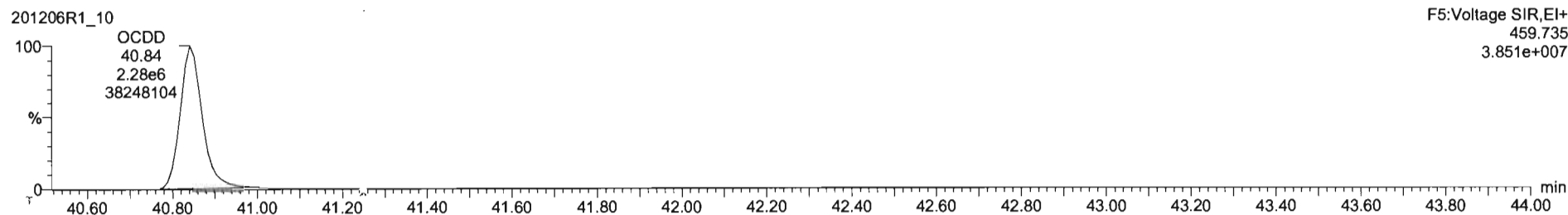
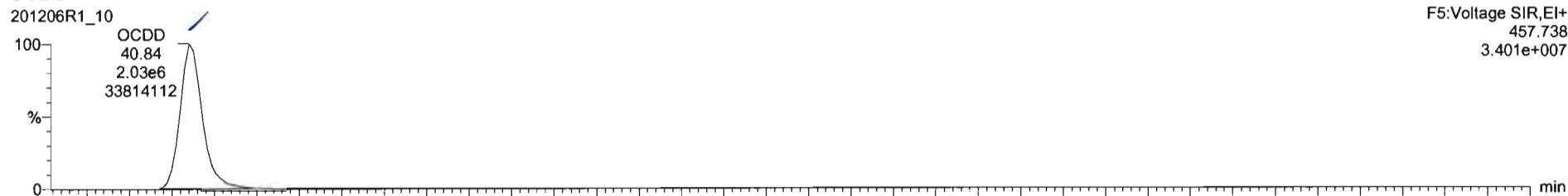


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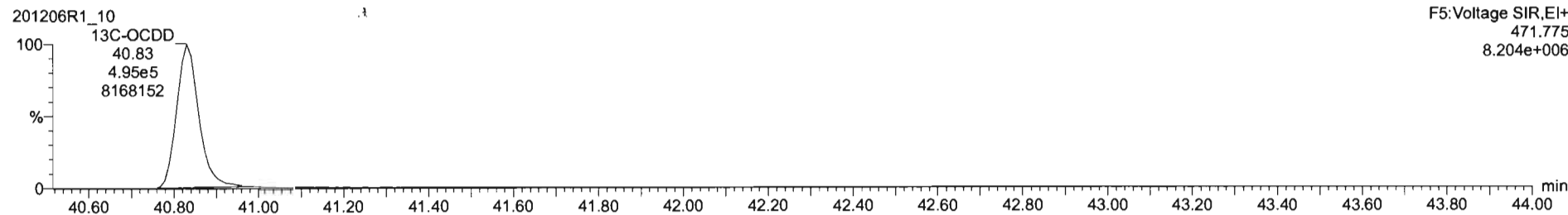
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OCDD



13C-OCDD

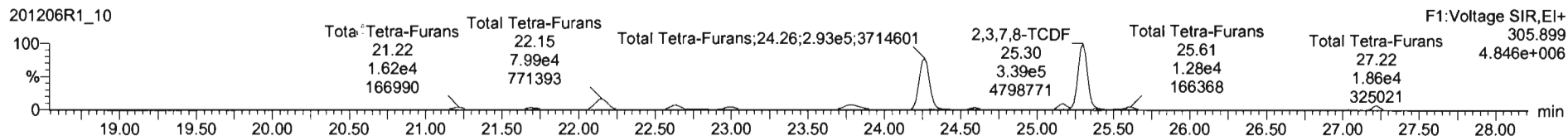
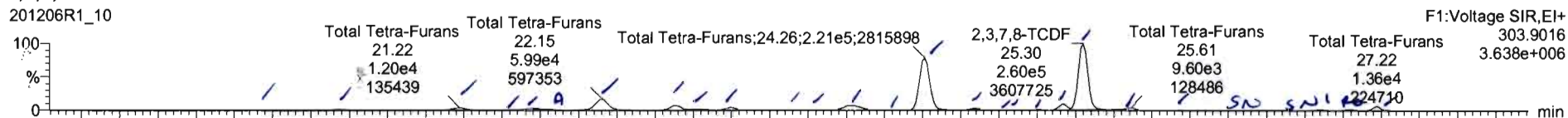


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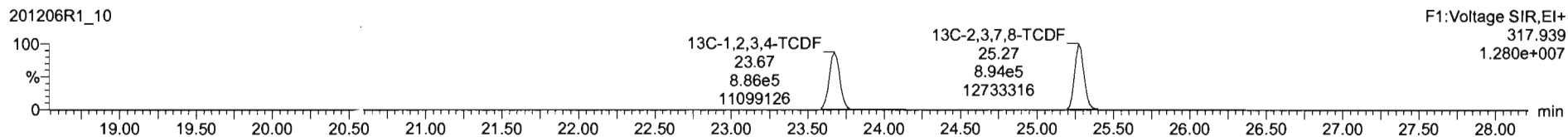
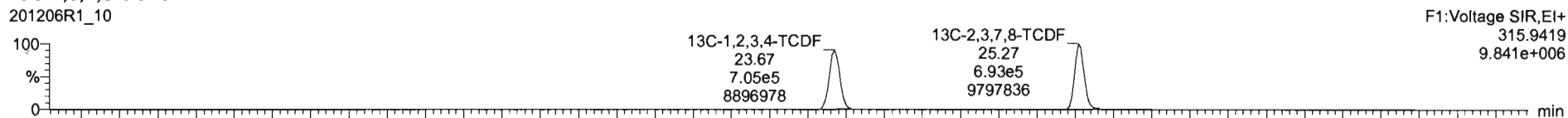
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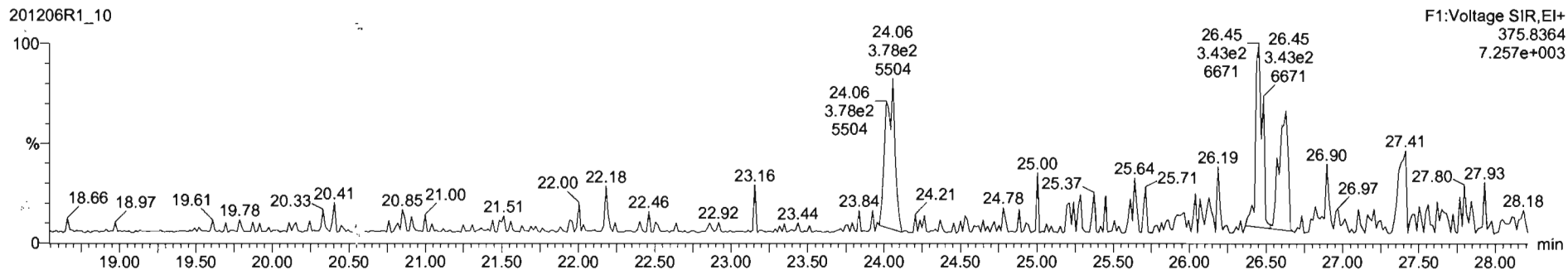
2,3,7,8-TCDF

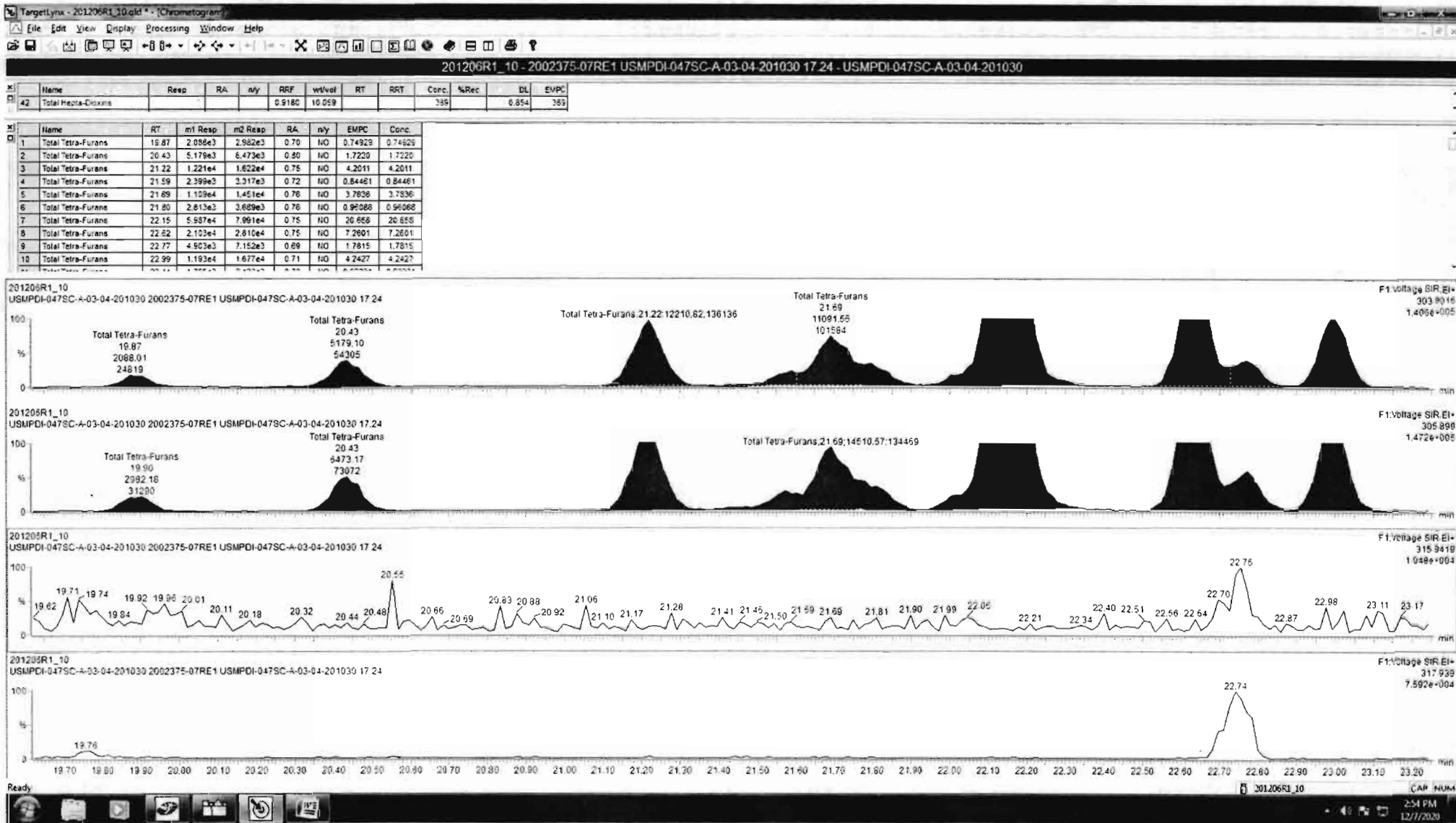


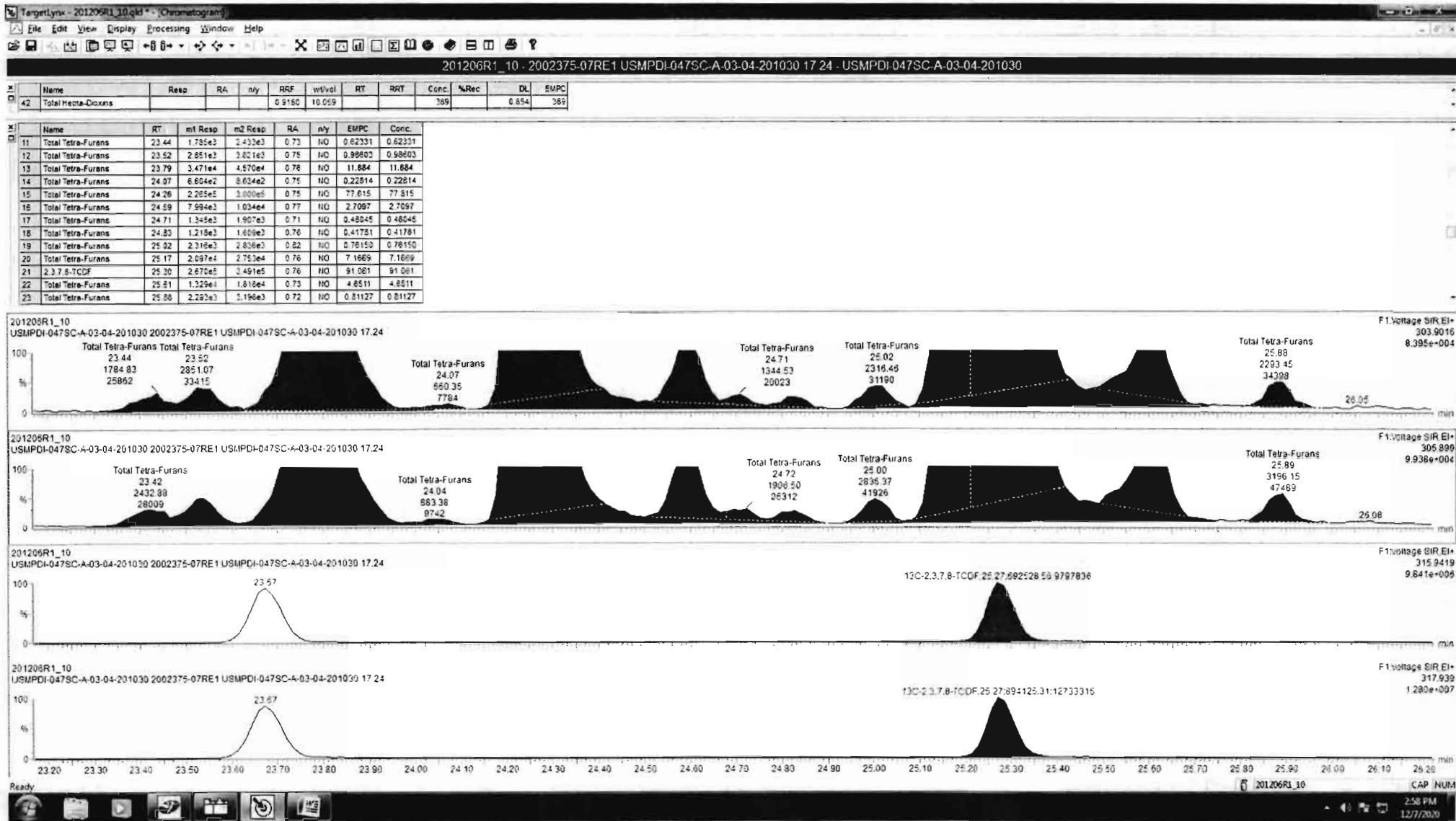
13C-2,3,7,8-TCDF

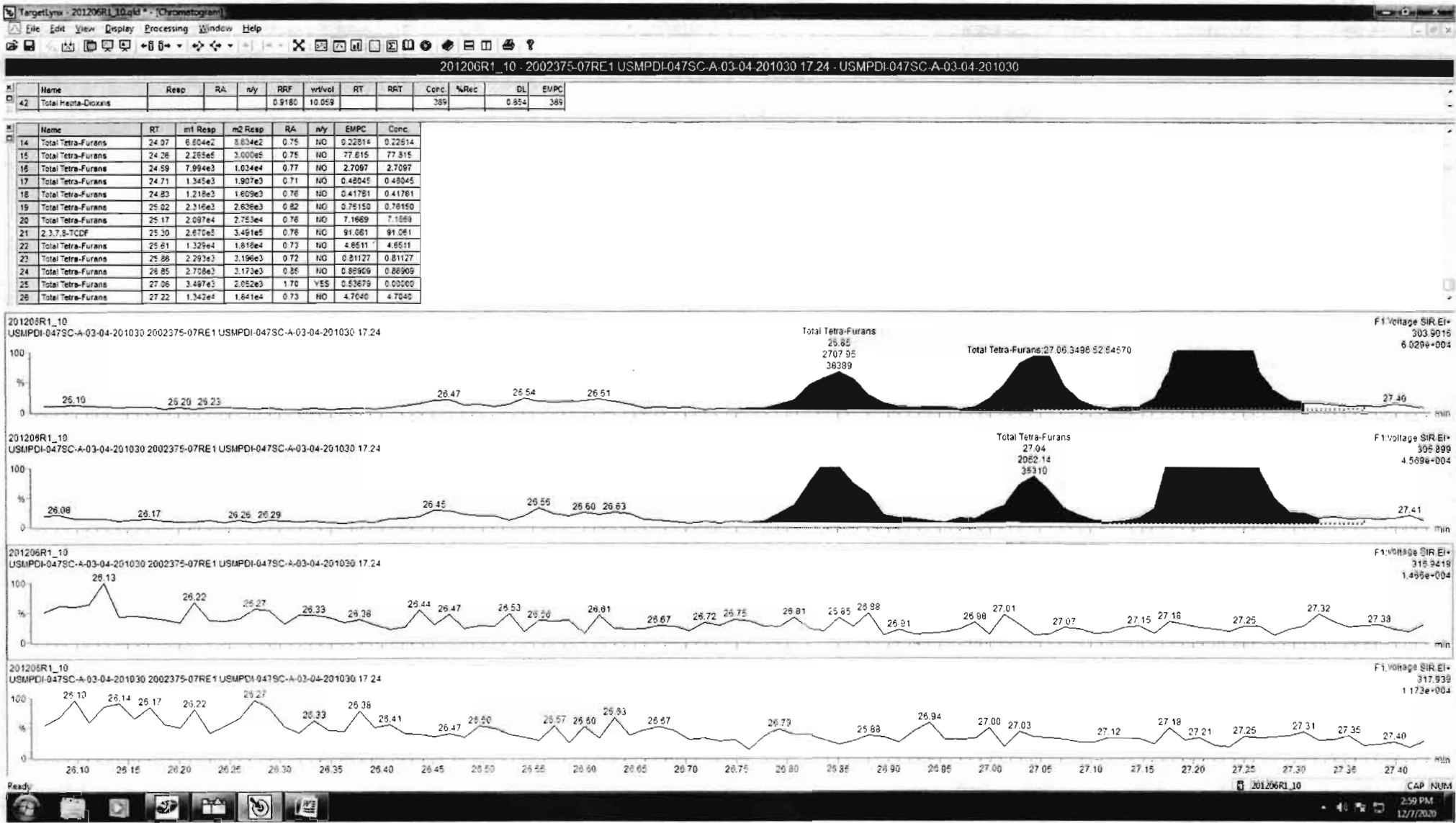


DPE1









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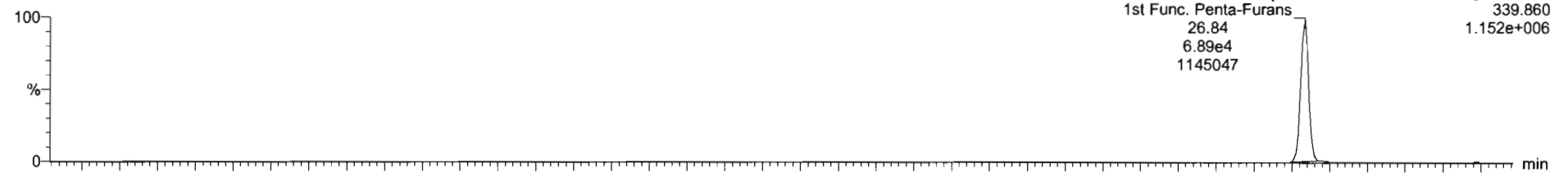
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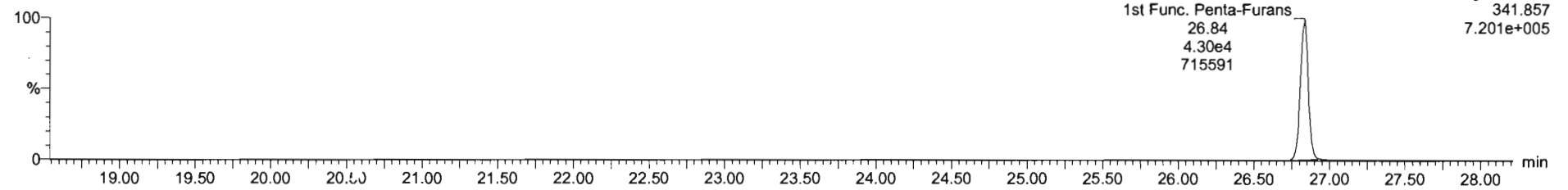
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1st Func. Penta-Furans

201206R1_10

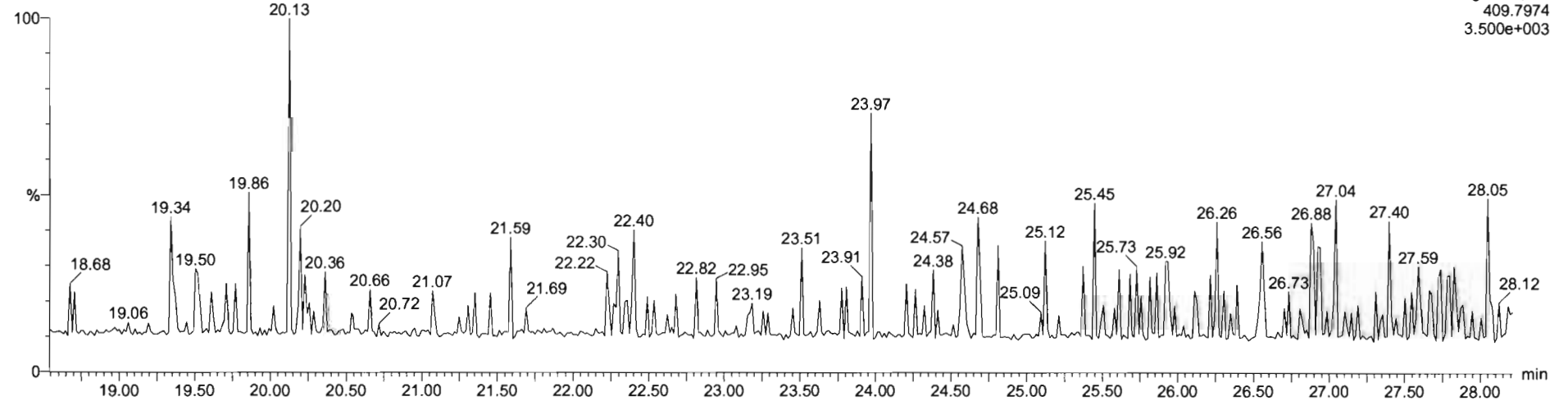


201206R1_10



DPE6

201206R1_10



Dataset: Untitled

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Printed: Monday, December 07, 2020 12:11:48 PM Pacific Standard Time

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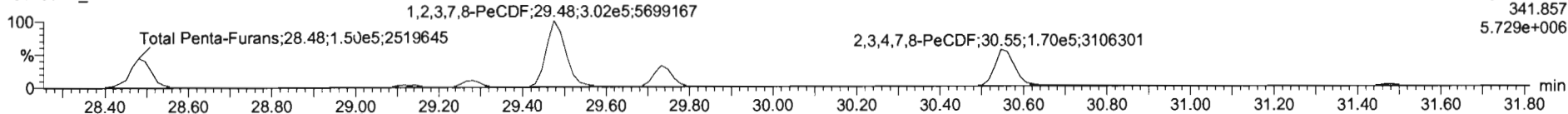
1,2,3,7,8-PeCDF

201206R1_10



F2: Voltage SIR, EI+
339.860
8.924e+006

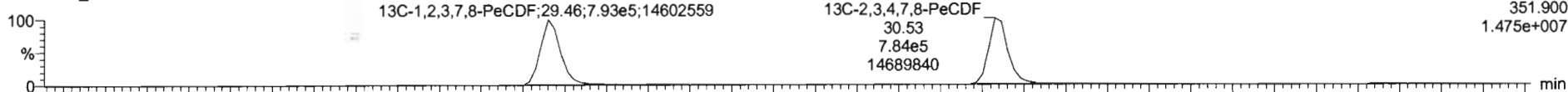
201206R1_10



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5.729e+006

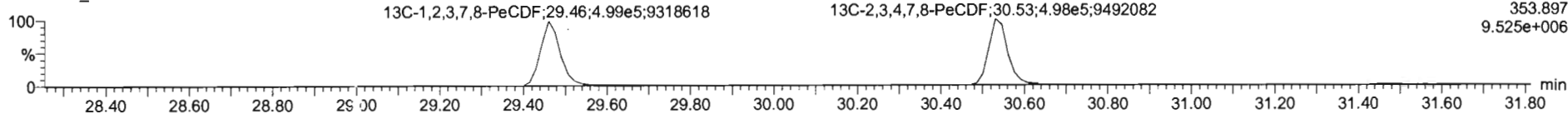
13C-1,2,3,7,8-PeCDF

201206R1_10



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1.475e+007

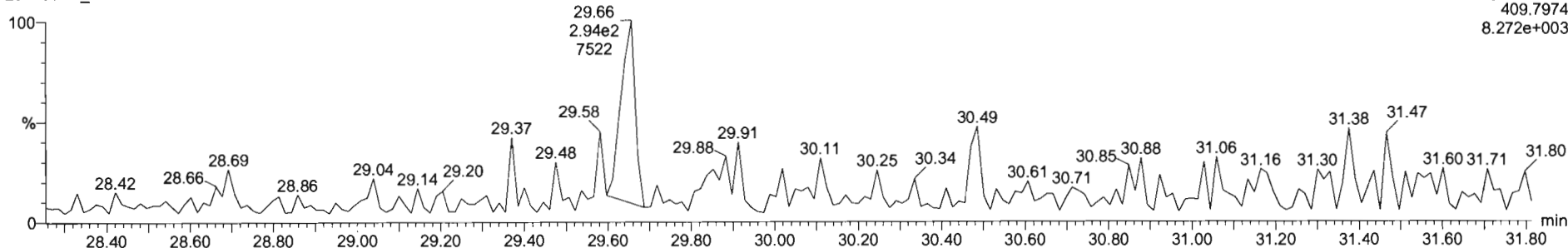
201206R1_10



F2: Voltage SIR, EI+
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9.525e+006

DPE2

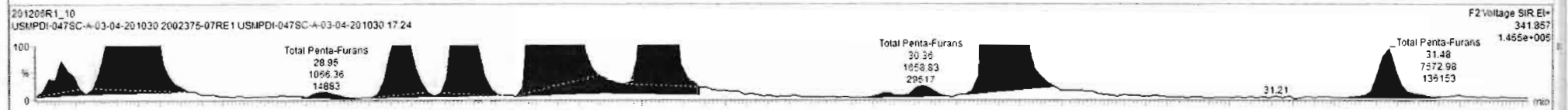
201206R1_10



F2: Voltage SIR, EI+
409.7974
8.272e+003

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Funic Penta-Furans				0.9597	10.009			18.0		0.0321	18.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.32	7.769e3	4.904e3	1.58	NO	2.0387	2.0387
2 Total Penta-Furans	28.46	2.422e5	1.516e5	1.60	NO	83.371	83.371
3 Total Penta-Furans	28.96	1.721e3	1.066e3	1.61	NO	0.44848	0.44848
4 Total Penta-Furans	29.11	1.912e4	1.173e4	1.63	NO	4.9637	4.9637
5 Total Penta-Furans	29.26	4.587e4	2.923e4	1.57	NO	12.085	12.085
6 1,2,3,7,8-PeCDF	29.46	4.840e5	3.082e5	1.57	NO	126.99	126.99
7 Total Penta-Furans	29.73	1.504e5	8.435e4	1.59	NO	39.388	39.388
8 Total Penta-Furans	30.29	8.617e2	5.623e2	1.53	NO	0.22916	0.22916
9 Total Penta-Furans	30.36	2.843e3	1.659e3	1.71	NO	0.72442	0.72442
10 2,3,4,7,8-PeCDF	30.55	2.695e5	1.699e5	1.59	NO	83.836	83.836
11 Total Penta-Furans	31.48	1.187e4	7.573e3	1.57	NO	3.1286	3.1286

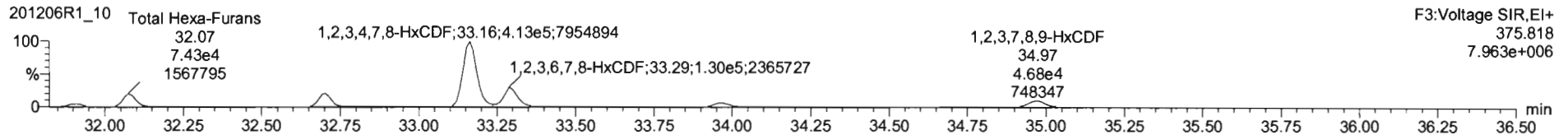
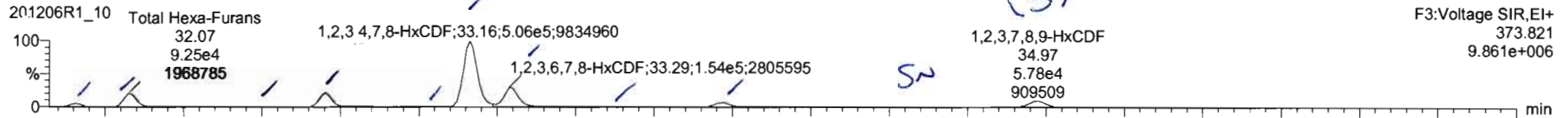


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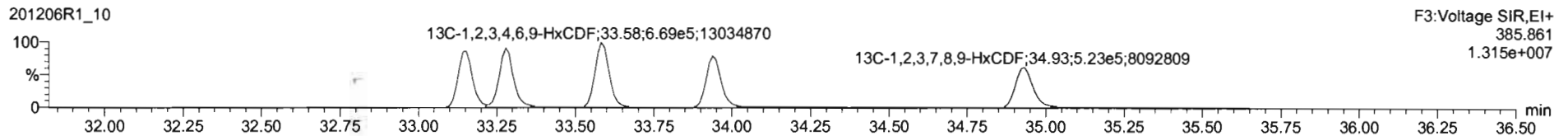
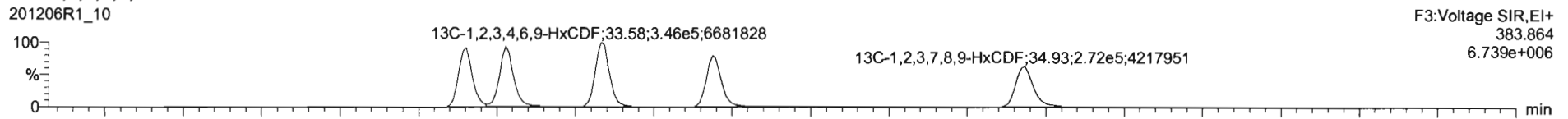
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Printed: Monday, December 07, 2020 12:11:48 PM Pacific Standard Time

Name: 201206R1_10, Date: 06-Dec-2020, Time: 16:53:15, ID: 2002375-07RE1 USMPDI-047SC-A-03-04-201030 17.24, Description: USMPDI-047SC-A-03-04-201030

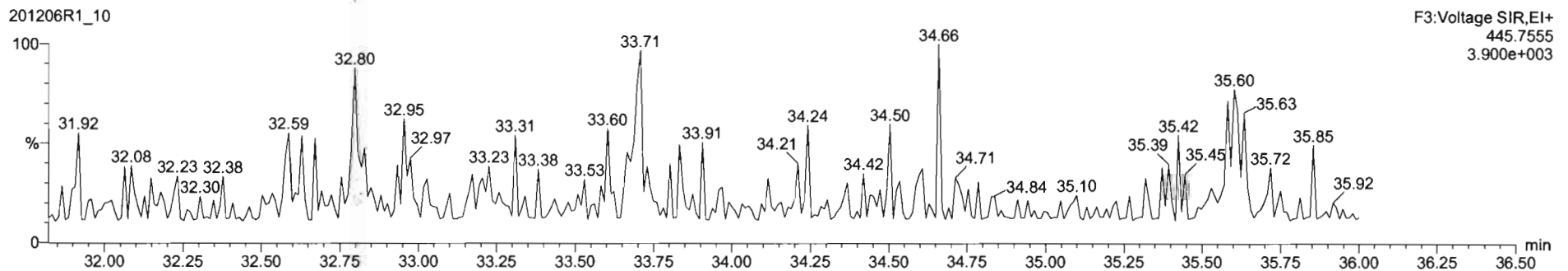
1,2,3,4,7,8-HxCDF

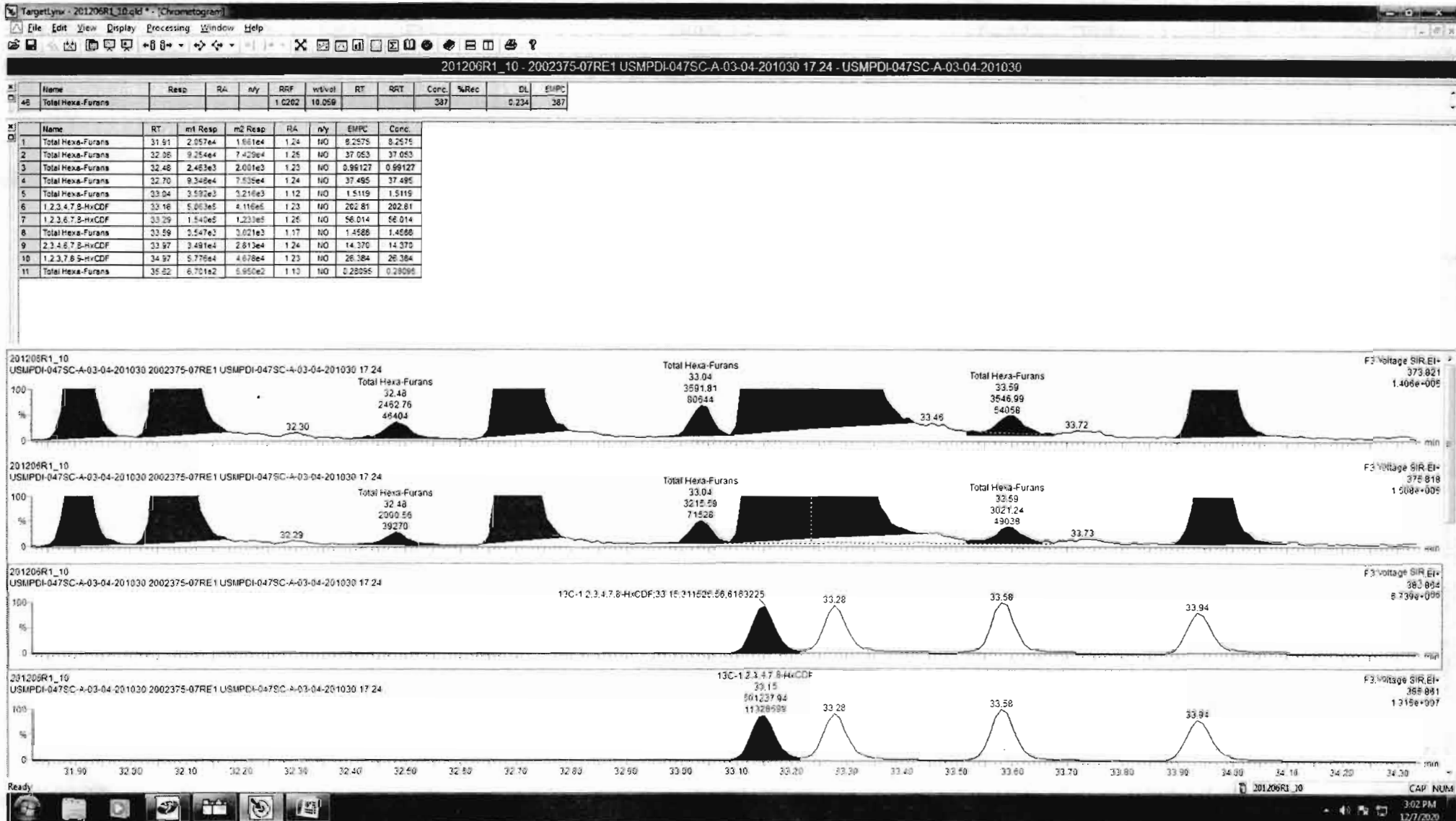


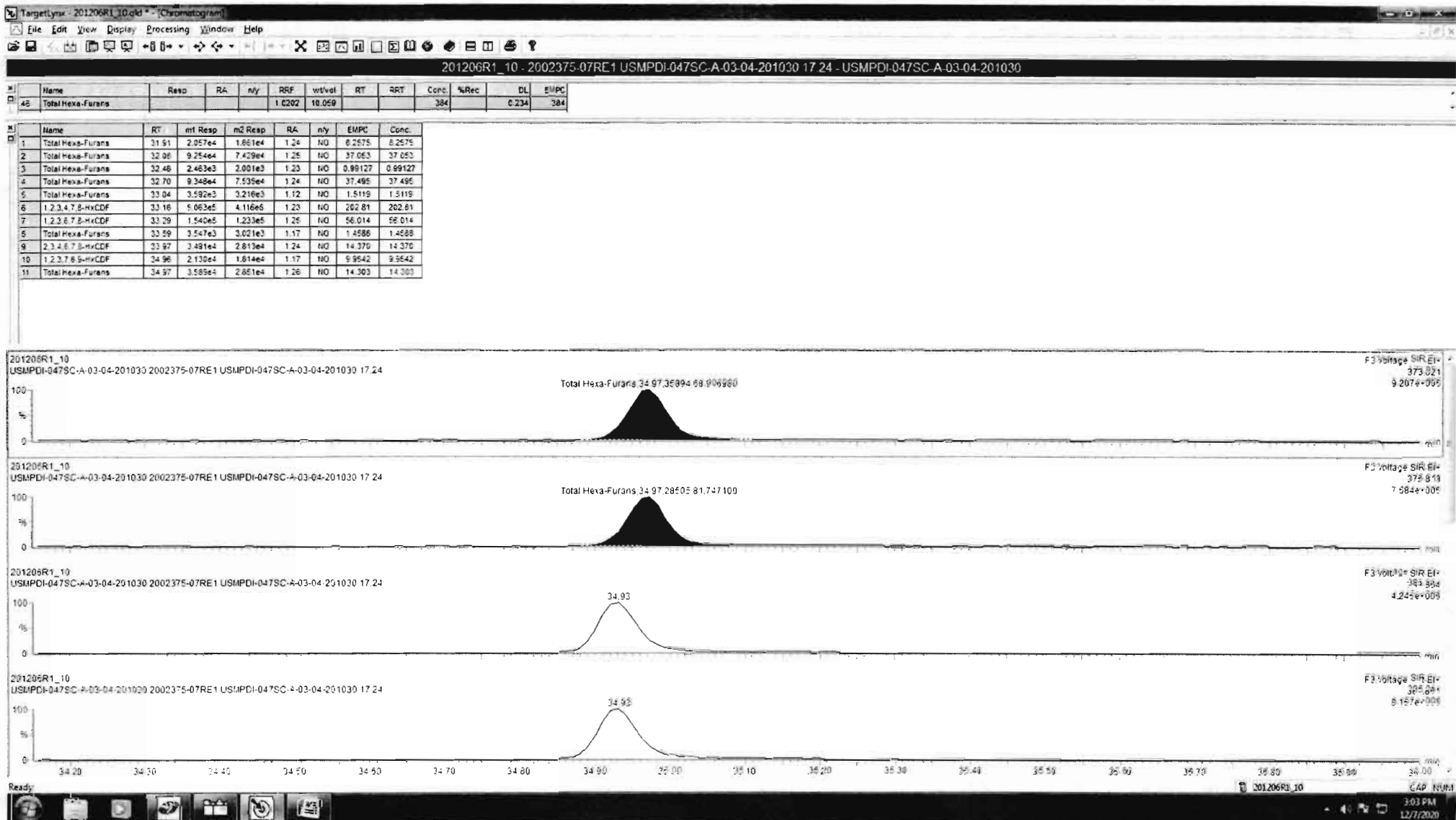
13C-1,2,3,4,7,8-HxCDF



DPE3





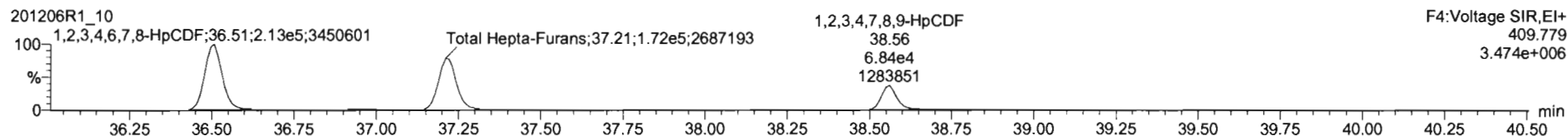
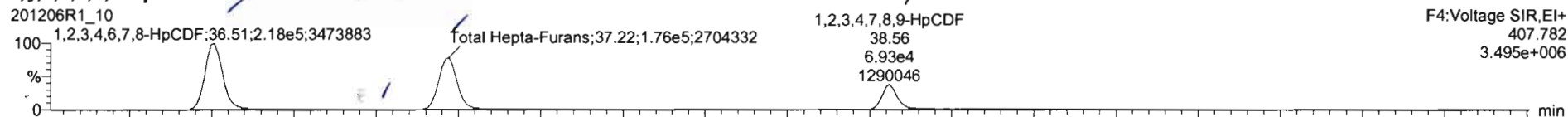


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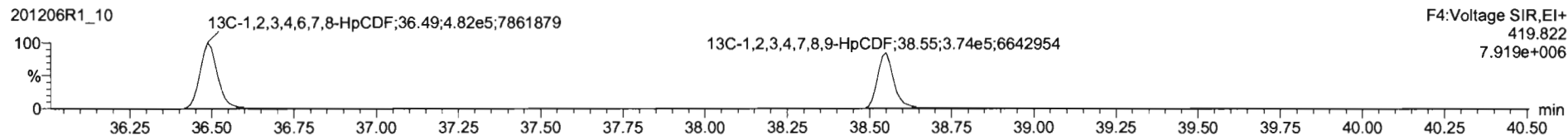
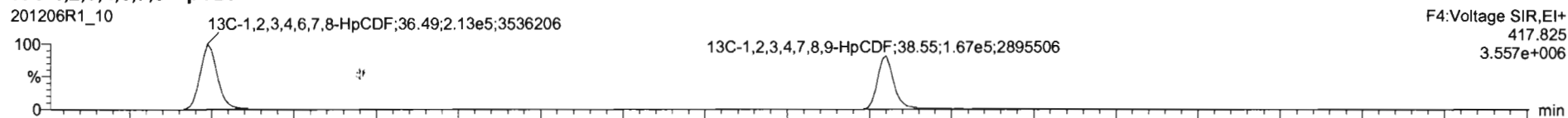
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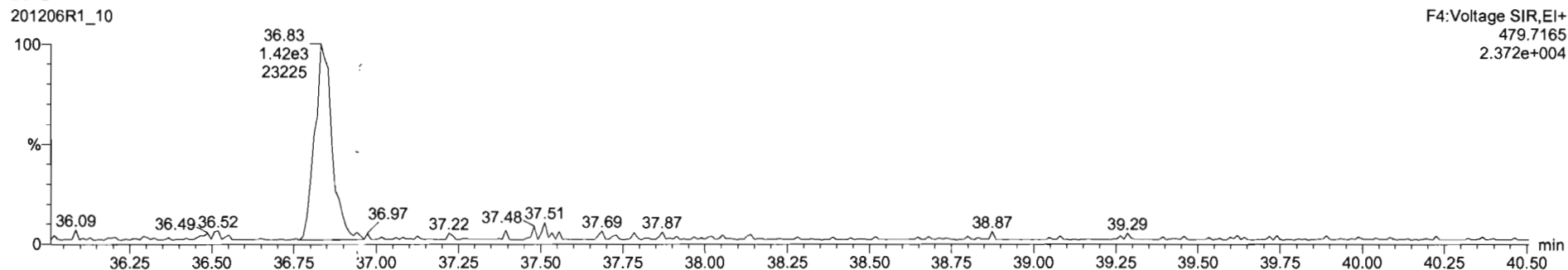
1,2,3,4,6,7,8-HpCDF

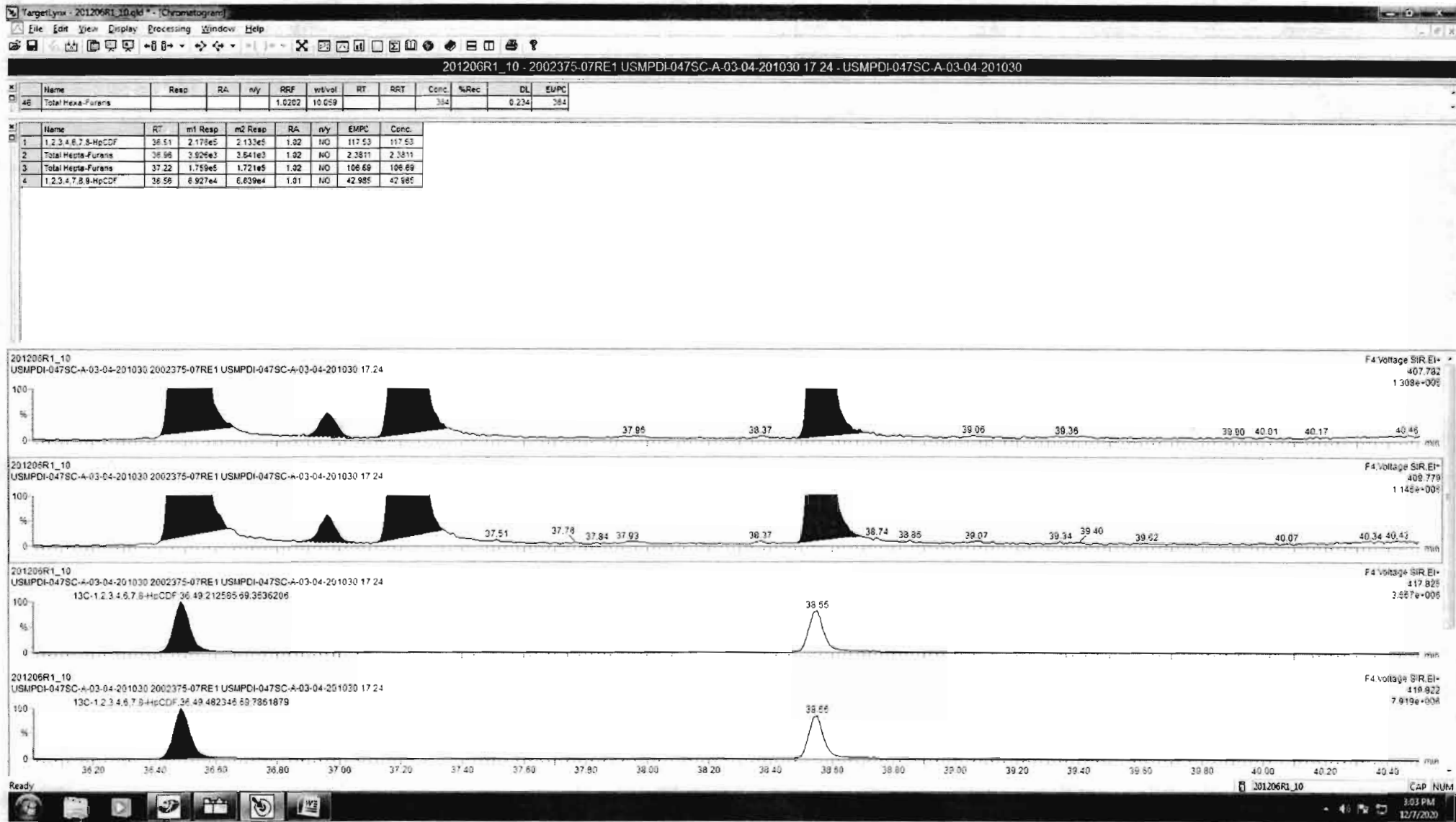


13C-1,2,3,4,6,7,8-HpCDF



DPE4

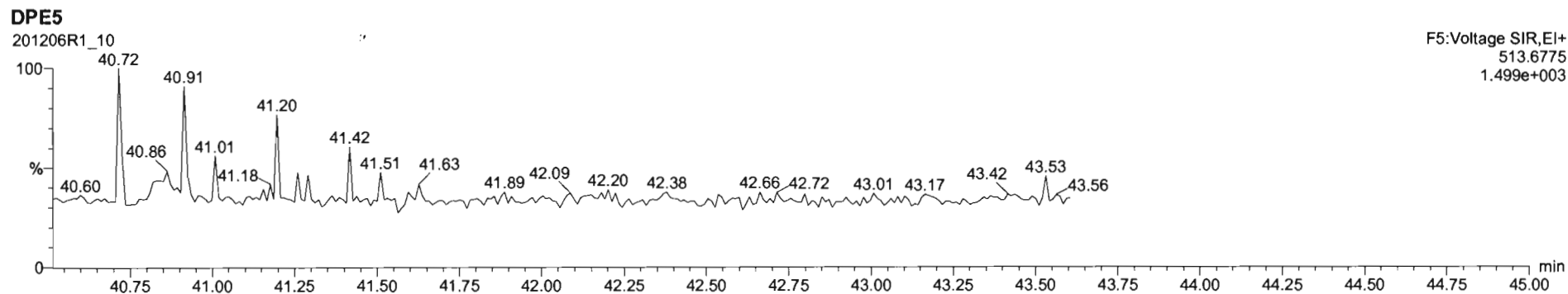
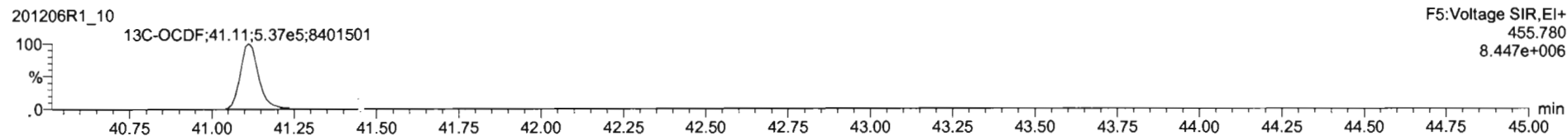
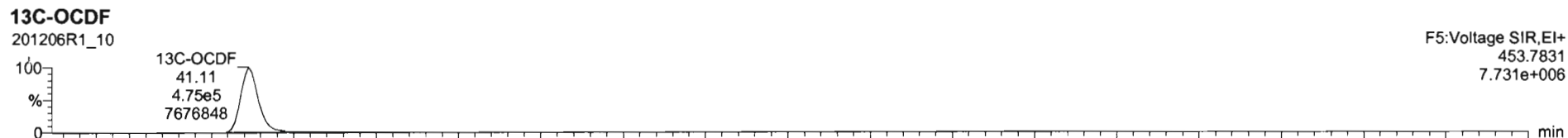
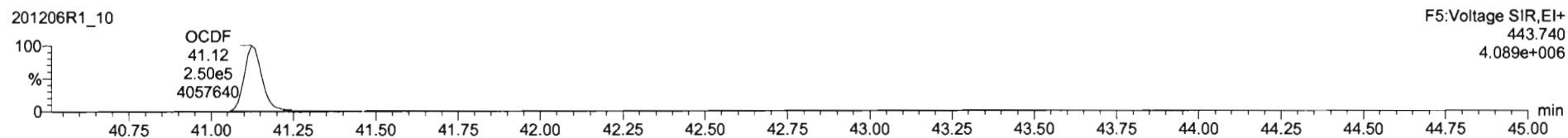
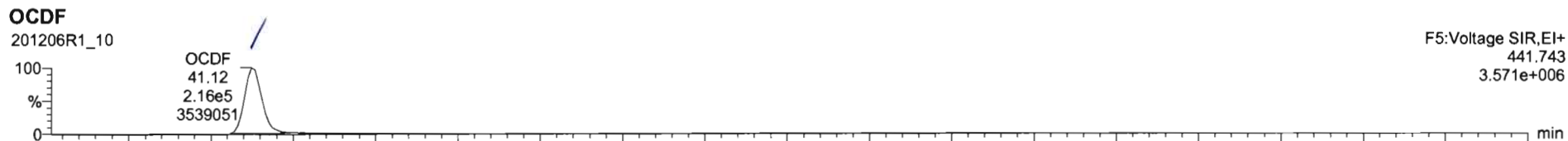




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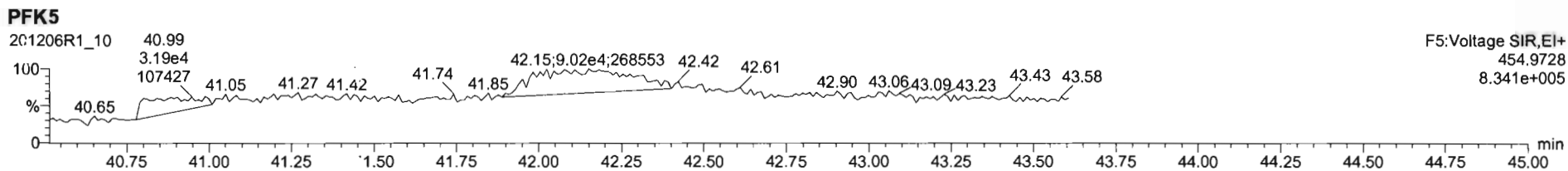
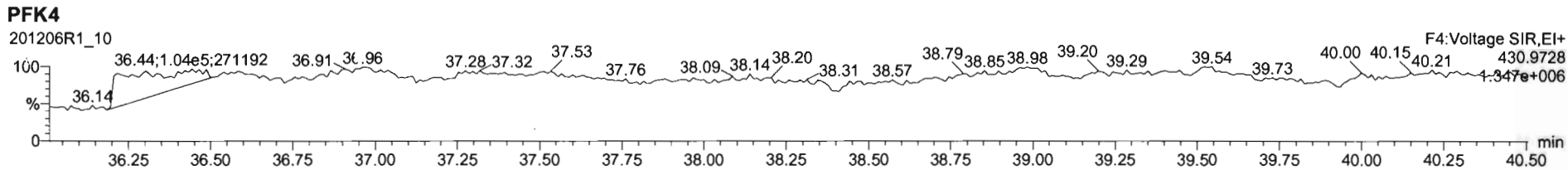
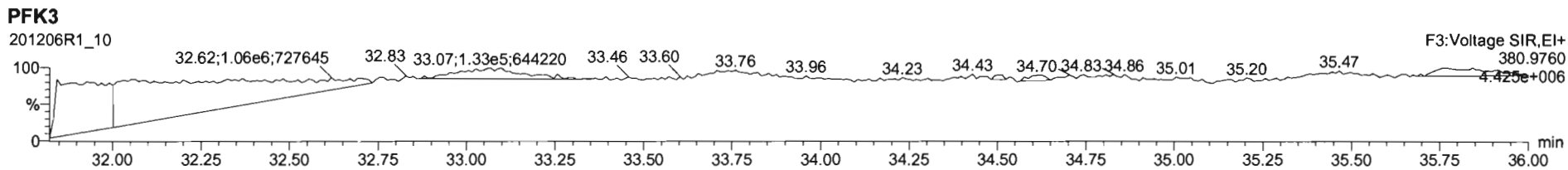
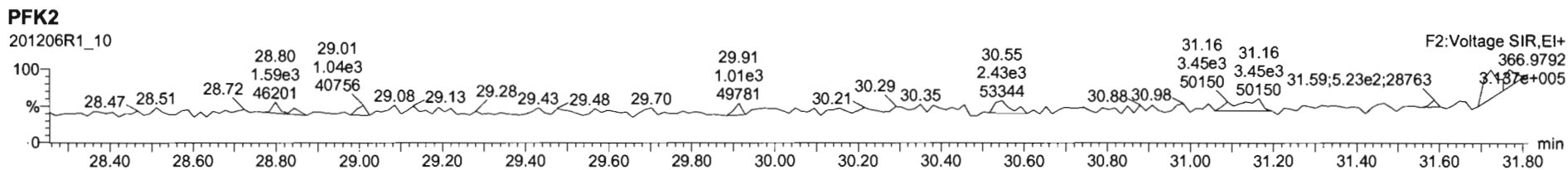
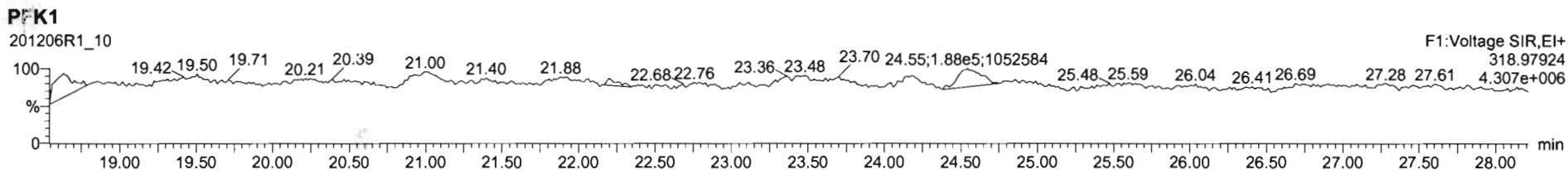


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Printed: Monday, December 07, 2020 12:11:48 PM Pacific Standard Time

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Dataset: U:\VG12.PRO\Results\201126R1\201126R1-13.qld

Last Altered: Thursday, December 03, 2020 07:50:50 Pacific Standard Time
Printed: Thursday, December 03, 2020 07:51:02 Pacific Standard Time

GPB 12/03/2020

CA 12/09/2020

Method: Untitled 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.950	10.017	26.068		1.001				0.0679	
2	2 1,2,3,7,8-PeCDD			NO	0.885	10.017	30.784		1.000				0.120	
3	3 1,2,3,4,7,8-HxCDD			NO	1.02	10.017	34.111		1.000				0.132	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.017	34.228		1.000				0.144	
5	5 1,2,3,7,8,9-HxCDD			NO	0.934	10.017	34.505		1.000				0.153	
6	6 1,2,3,4,6,7,8-HpCDD	3.15e3	1.03	NO	0.870	10.017	38.006	38.01	1.000	1.000	2.5428		0.337	2.54
7	7 OCDD	3.05e4	0.88	NO	0.872	10.017	40.952	40.95	1.000	1.000	32.036		0.522	32.0
8	8 2,3,7,8-TCDF	1.76e3	0.70	NO	0.824	10.017	25.352	25.36	1.000	1.001	0.45001		0.0527	0.450
9	9 1,2,3,7,8-PeCDF	1.65e3	1.71	NO	0.963	10.017	29.524	29.51	1.000	1.000	0.50516		0.0978	0.505
10	10 2,3,4,7,8-PeCDF	1.08e3	1.52	NO	1.07	10.017	30.586	30.60	1.000	1.001	0.30089		0.0870	0.301
11	11 1,2,3,4,7,8-HxCDF	1.76e3	1.30	NO	0.953	10.017	33.195	33.22	1.000	1.001	0.83403		0.142	0.834
12	12 1,2,3,6,7,8-HxCDF	5.67e2	1.17	NO	1.01	10.017	33.334	33.33	1.000	1.000	0.23622		0.134	0.236
13	13 2,3,4,6,7,8-HxCDF			NO	0.991	10.017	33.997		1.000				0.152	
14	14 1,2,3,7,8,9-HxCDF			NO	0.951	10.017	34.995		1.000				0.251	
15	15 1,2,3,4,6,7,8-HpCDF	1.39e3	0.92	NO	0.999	10.017	36.583	36.58	1.000	1.000	0.85430		0.117	0.854
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.12	10.017	38.634		1.000				0.125	
17	17 OCDF	1.90e3	0.80	NO	0.868	10.017	41.248	41.25	1.000	1.000	1.6792		0.399	1.68
18	18 13C-2,3,7,8-TCDD	5.66e5	0.81	NO	1.11	10.017	26.028	26.04	1.030	1.030	183.38	91.8	0.297	
19	19 13C-1,2,3,7,8-PeCDD	3.48e5	0.65	NO	0.859	10.017	30.738	30.77	1.216	1.218	145.72	73.0	0.328	
20	20 13C-1,2,3,4,7,8-HxCDD	3.13e5	1.30	NO	0.700	10.017	34.099	34.10	1.014	1.014	155.71	78.0	0.658	
21	21 13C-1,2,3,6,7,8-HxCDD	3.83e5	1.29	NO	0.833	10.017	34.237	34.22	1.018	1.017	160.05	80.2	0.553	
22	22 13C-1,2,3,7,8,9-HxCDD	3.62e5	1.26	NO	0.762	10.017	34.480	34.49	1.025	1.026	165.52	82.9	0.604	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.84e5	1.11	NO	0.650	10.017	37.960	38.01	1.129	1.130	152.34	76.3	1.00	
24	24 13C-OCDD	4.36e5	0.90	NO	0.539	10.017	40.923	40.95	1.217	1.218	281.89	70.6	0.820	
25	25 13C-2,3,7,8-TCDF	9.48e5	0.79	NO	0.981	10.017	25.351	25.34	1.003	1.003	177.49	88.9	0.331	
26	26 13C-1,2,3,7,8-PeCDF	6.79e5	1.65	NO	0.792	10.017	29.472	29.51	1.166	1.168	157.55	78.9	0.670	
27	27 13C-2,3,4,7,8-PeCDF	6.70e5	1.64	NO	0.778	10.017	30.529	30.59	1.208	1.210	158.11	79.2	0.682	
28	28 13C-1,2,3,4,7,8-HxCDF	4.43e5	0.50	NO	0.954	10.017	33.191	33.19	0.987	0.987	161.78	81.0	0.848	
29	29 13C-1,2,3,6,7,8-HxCDF	4.76e5	0.51	NO	1.01	10.017	33.323	33.33	0.991	0.991	164.74	82.5	0.804	
30	30 13C-2,3,4,6,7,8-HxCDF	4.49e5	0.50	NO	0.921	10.017	33.992	33.99	1.011	1.011	169.91	85.1	0.878	
31	31 13C-1,2,3,7,8,9-HxCDF	3.82e5	0.51	NO	0.803	10.017	34.987	34.99	1.040	1.041	165.61	82.9	1.01	

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-13.qld

Last Altered: Thursday, December 03, 2020 07:50:50 Pacific Standard Time
Printed: Thursday, December 03, 2020 07:51:02 Pacific Standard Time

Name: 201126R1_13, Date: 26-Nov-2020, Time: 17:35:08, ID: 2002375-08 USMPDI-047SC-A-04-05-201030 11.91, Description: USMPDI-047SC-A-04-05-201030

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.25e5	0.43	NO	0.735	10.017	36.555	36.58	1.087	1.088	153.98	77.1	0.672	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.39e5	0.42	NO	0.568	10.017	38.589	38.63	1.147	1.149	146.48	73.4	0.871	
34	34 13C-OCDF	5.21e5	0.84	NO	0.629	10.017	41.206	41.24	1.225	1.226	288.20	72.2	0.669	
35	35 37Cl-2,3,7,8-TCDD	2.46e5			1.09	10.017	26.028	26.07	1.030	1.032	81.187	102	0.0832	
36	36 13C-1,2,3,4-TCDD	5.55e5	0.82	NO	1.00	10.017	25.370	25.27	1.000	1.000	199.67	100	0.329	
37	37 13C-1,2,3,4-TCDF	1.09e6	0.79	NO	1.00	10.017	23.870	23.76	1.000	1.000	199.67	100	0.325	
38	38 13C-1,2,3,4,6,9-HxCDF	5.73e5	0.51	NO	1.00	10.017	33.710	33.63	1.000	1.000	199.67	100	0.808	
39	39 Total Tetra-Dioxins				0.950	10.017	24.620		0.000				0.0420	
40	40 Total Penta-Dioxins				0.885	10.017	29.960		0.000				0.0410	
41	41 Total Hexa-Dioxins				0.915	10.017	33.635		0.000		1.0998		0.149	1.10
42	42 Total Hepta-Dioxins				0.870	10.017	37.640		0.000		6.0745		0.337	6.07
43	43 Total Tetra-Furans				0.824	10.017	23.610		0.000		1.7392		0.0527	1.94
44	44 1st Func. Penta-Furans				0.963	10.017	26.930		0.000		0.00000		0.00973	0.136
45	45 Total Penta-Furans				0.963	10.017	29.275		0.000		1.1242		0.0972	1.97
46	46 Total Hexa-Furans				0.991	10.017	33.555		0.000		1.9286		0.164	1.93
47	47 Total Hepta-Furans				0.999	10.017	37.835		0.000		0.85430		0.127	1.82

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-13.qld

Last Altered: Thursday, December 03, 2020 07:50:50 Pacific Standard Time

Printed: Thursday, December 03, 2020 07:51:02 Pacific Standard Time

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Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_13, Date: 26-Nov-2020, Time: 17:35:08, ID: 2002375-08 USMPDI-047SC-A-04-05-201030 11.91, Description: USMPDI-047SC-A-04-05-201030

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	Total Hexa-Dioxins	32.48	1.135e4	7.235e3	5.949e2	4.324e2	1.38	NO	1.027e3	0.63640	0.63640	0.149
2	Total Hexa-Dioxins	33.38	5.539e3	4.554e3	4.260e2	3.220e2	1.32	NO	7.480e2	0.46339	0.46339	0.149

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.97	2.162e4	2.108e4	2.321e3	2.048e3	1.13	NO	4.369e3	3.5316	3.5316	0.337
2	1,2,3,4,6,7,8-HpCDD	38.01	1.851e4	1.845e4	1.597e3	1.549e3	1.03	NO	3.146e3	2.5428	2.5428	0.337

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	21.35	2.831e3	4.214e3	2.697e2	3.599e2	0.75	NO	6.296e2	0.16079	0.16079	0.0527
2	Total Tetra-Furans	22.28	5.004e3	6.364e3	4.062e2	5.919e2	0.69	NO	9.981e2	0.25490	0.25490	0.0527
3	Total Tetra-Furans	23.86	6.816e3	7.613e3	7.971e2	9.661e2	0.83	NO	1.763e3	0.45029	0.45029	0.0527
4	Total Tetra-Furans	24.34	8.992e3	1.311e4	6.935e2	9.639e2	0.72	NO	1.657e3	0.42326	0.42326	0.0527
5	Total Tetra-Furans	25.23	5.004e3	1.042e4	3.412e2	5.810e2	0.59	YES	0.000e0	0.00000	0.20033	0.0527
6	2,3,7,8-TCDF	25.36	1.125e4	1.815e4	7.248e2	1.037e3	0.70	NO	1.762e3	0.45001	0.45001	0.0527

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-13.qld

Last Altered: Thursday, December 03, 2020 07:50:50 Pacific Standard Time

Printed: Thursday, December 03, 2020 07:51:02 Pacific Standard Time

Name: 201126R1_13, Date: 26-Nov-2020, Time: 17:35:08, ID: 2002375-08 USMPDI-047SC-A-04-05-201030 11.91, Description: USMPDI-047SC-A-04-05-201030

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	26.90	6.724e3	3.556e3	3.525e2	1.733e2	2.03	YES	0.000e0	0.00000	0.13596	0.00973

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.49	1.046e4	8.396e3	1.092e3	7.175e2	1.52	NO	0.000e0	0.00000	0.55647	0.0972
2	Total Penta-Furans	29.17	8.340e3	7.176e3	5.638e2	4.761e2	1.18	YES	0.000e0	0.00000	0.28530	0.0972
3	Total Penta-Furans	29.33	4.799e3	5.938e3	2.872e2	1.943e2	1.48	NO	4.815e2	0.14810	0.14810	0.0972
4	1,2,3,7,8-PeCDF	29.51	1.845e4	1.096e4	1.043e3	6.108e2	1.71	NO	1.654e3	0.50516	0.50516	0.0978
5	Total Penta-Furans	29.78	6.205e3	2.949e3	3.190e2	2.338e2	1.36	NO	5.528e2	0.17004	0.17004	0.0972
6	2,3,4,7,8-PeCDF	30.60	1.145e4	6.858e3	6.500e2	4.281e2	1.52	NO	1.078e3	0.30089	0.30089	0.0870

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.94	3.627e3	3.294e3	1.558e2	1.248e2	1.25	NO	2.806e2	0.12928	0.12928	0.164
2	Total Hexa-Furans	32.11	8.115e3	5.147e3	3.803e2	3.493e2	1.09	NO	7.296e2	0.33619	0.33619	0.164
3	Total Hexa-Furans	32.76	6.804e3	5.656e3	4.426e2	4.100e2	1.08	NO	8.526e2	0.39285	0.39285	0.164
4	1,2,3,4,7,8-HxCDF	33.22	1.485e4	1.123e4	9.954e2	7.685e2	1.30	NO	1.764e3	0.83403	0.83403	0.142
5	1,2,3,6,7,8-HxCDF	33.33	5.438e3	3.944e3	3.062e2	2.611e2	1.17	NO	5.673e2	0.23622	0.23622	0.134

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	36.58	7.697e3	7.281e3	6.651e2	7.237e2	0.92	NO	1.389e3	0.85430	0.85430	0.117
2	Total Hepta-Furans	37.31	6.976e3	6.142e3	6.812e2	6.794e2	1.00	NO	0.000e0	0.00000	0.96526	0.127

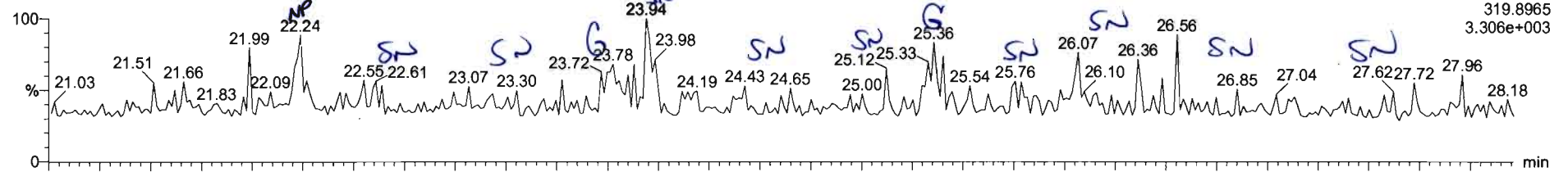
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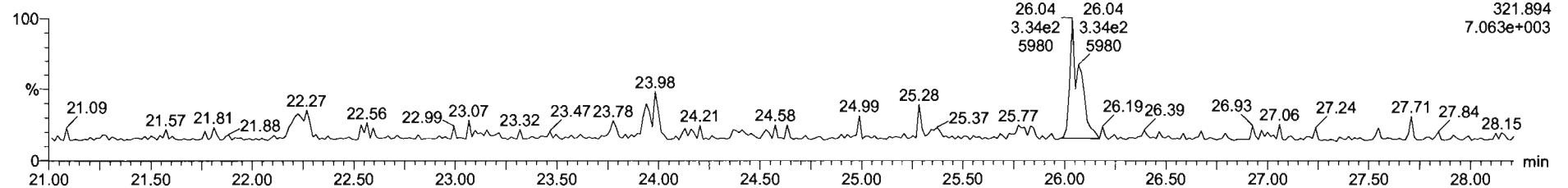
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2,3,7,8-TCDD

201126R1_13

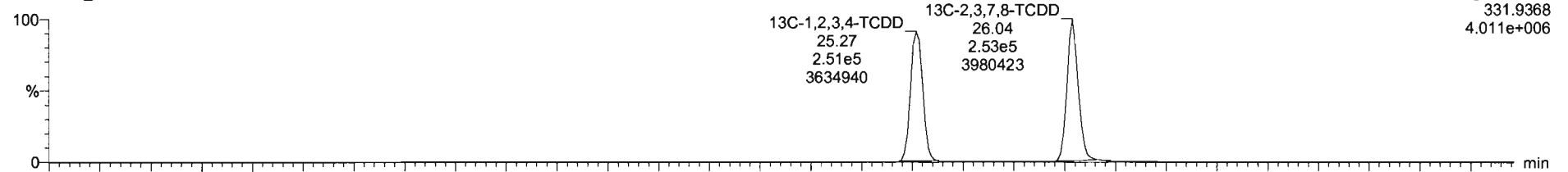


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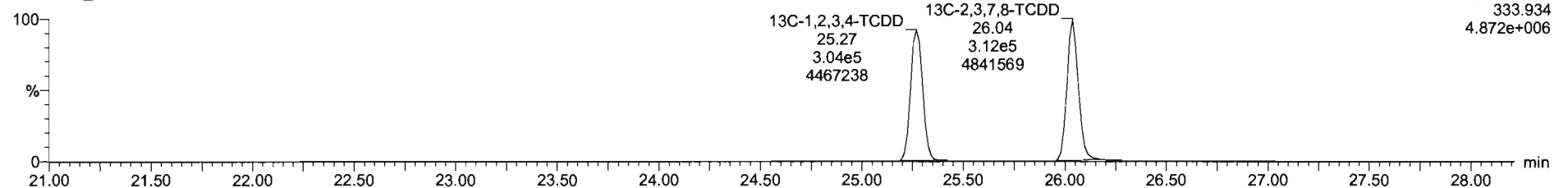


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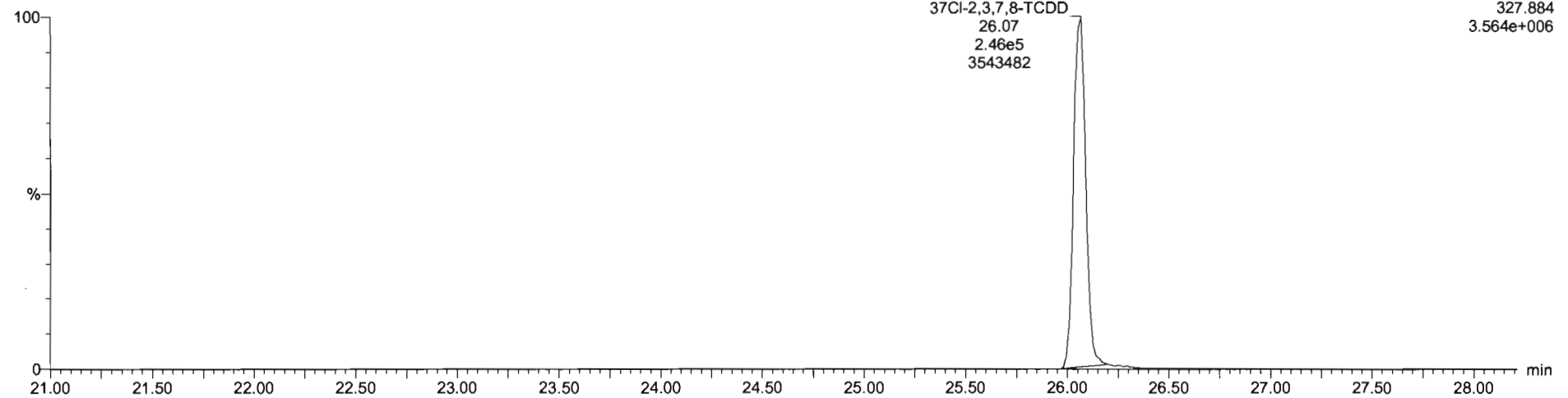
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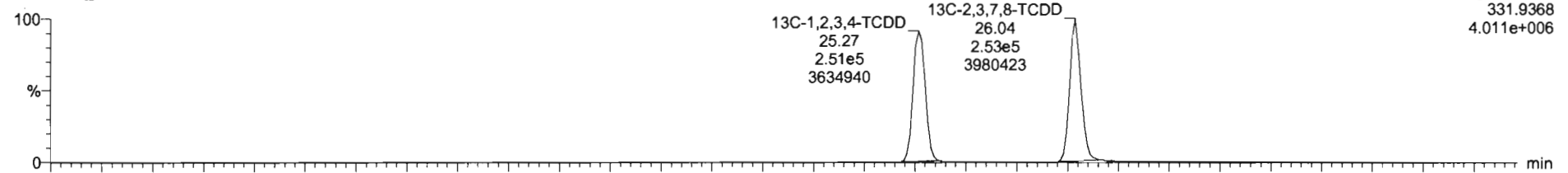
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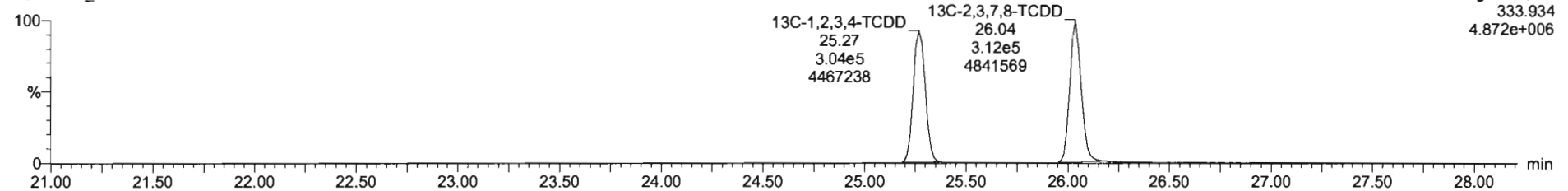


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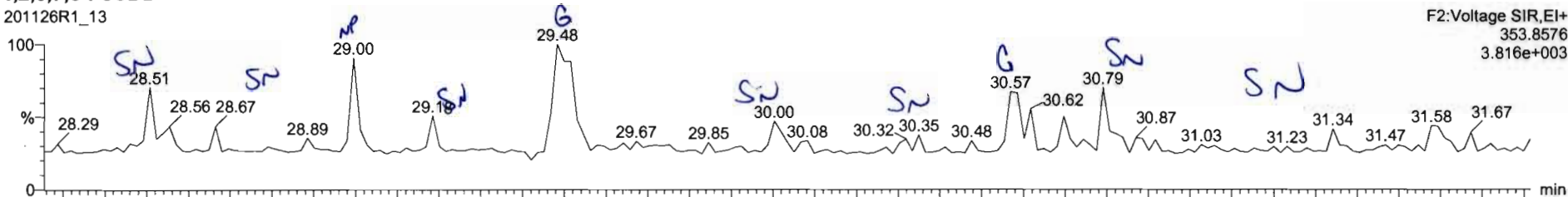
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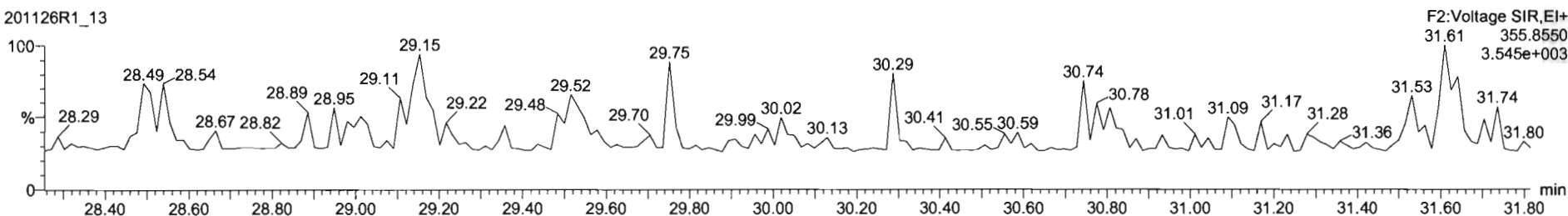
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1,2,3,7,8-PeCDD

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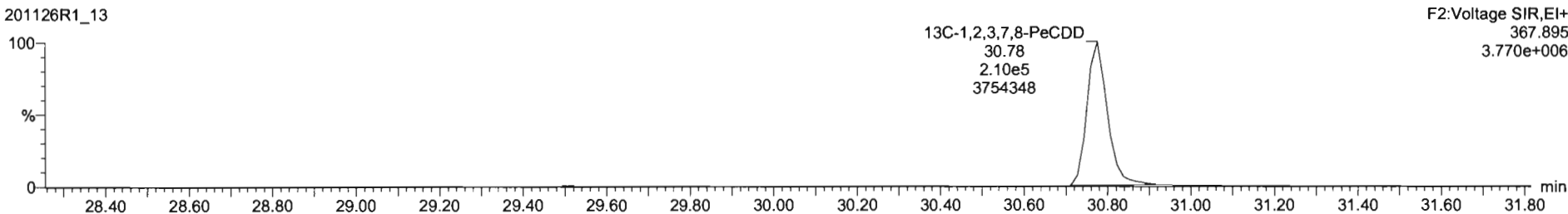


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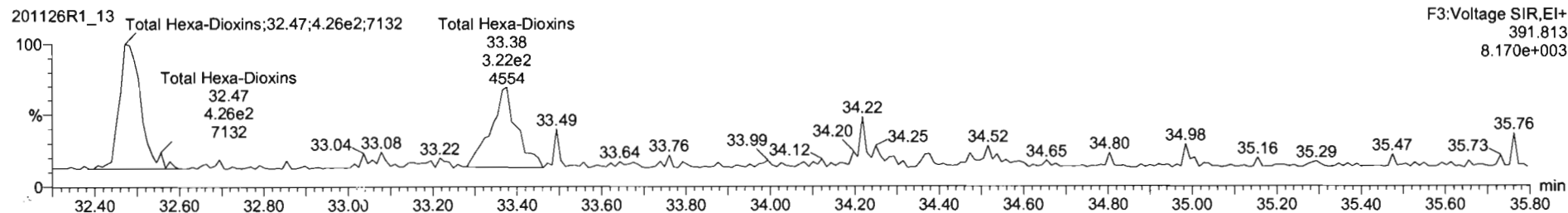
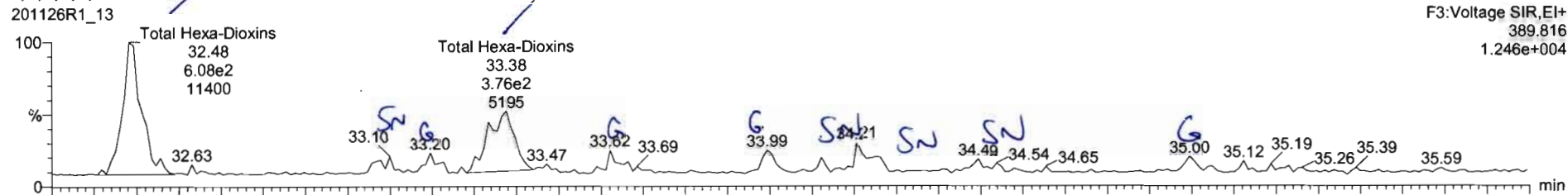


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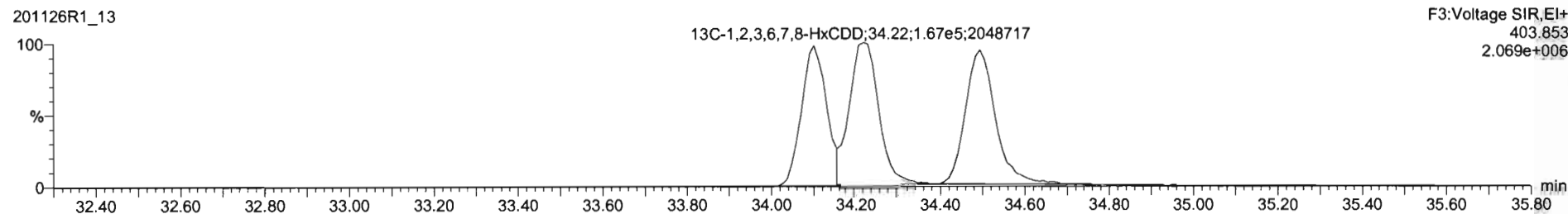
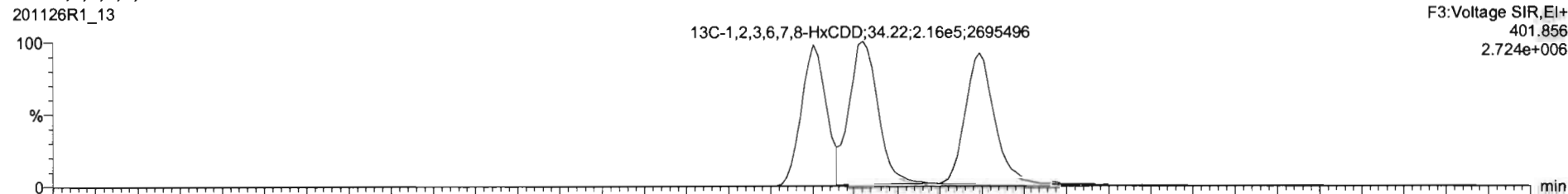
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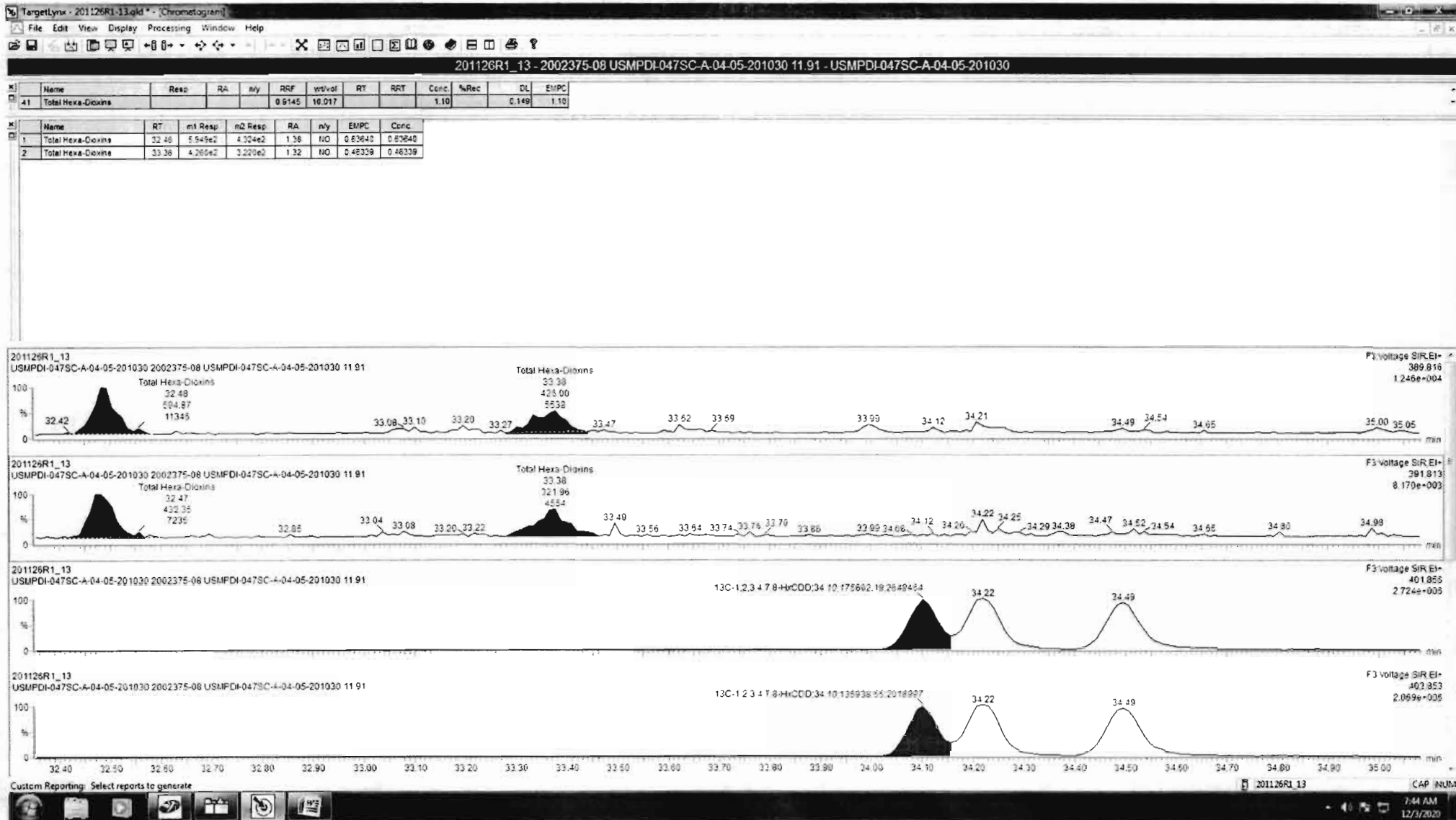
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1,2,3,4,7,8-HxCDD



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





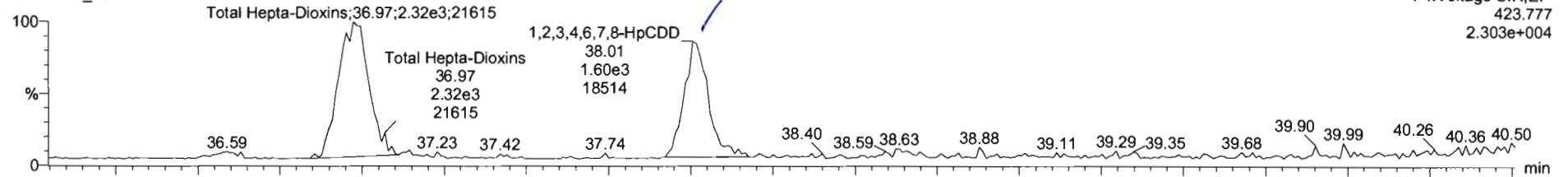
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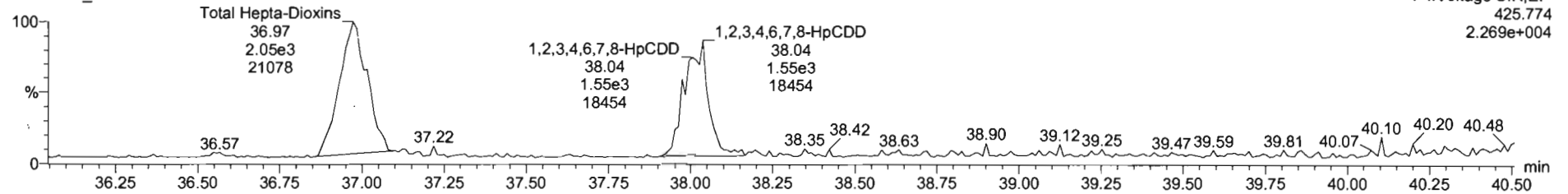
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1,2,3,4,6,7,8-HpCDD

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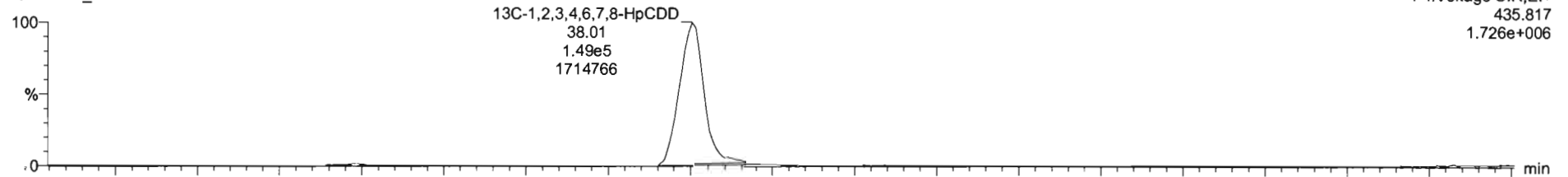


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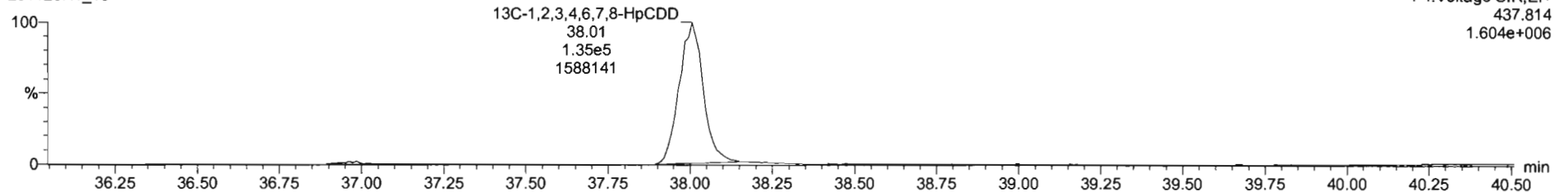


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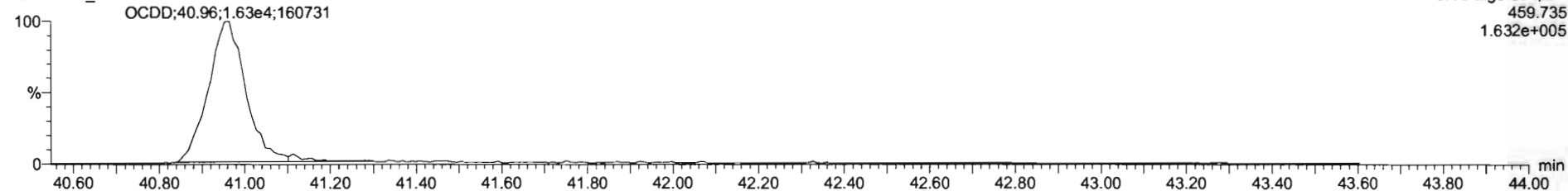
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OCDD

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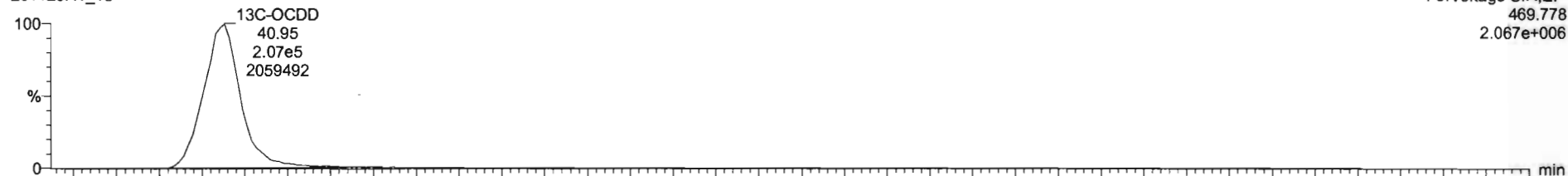


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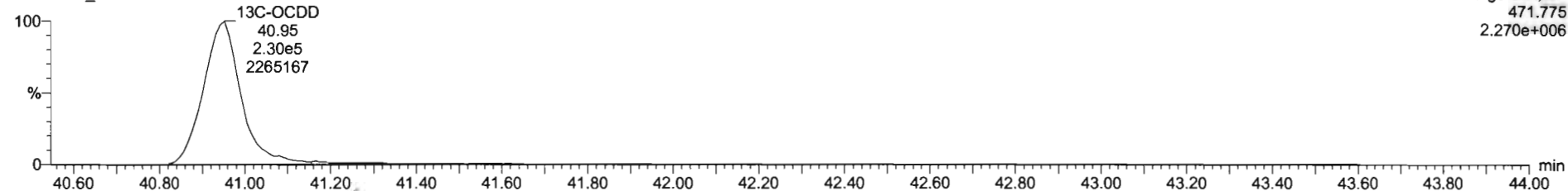


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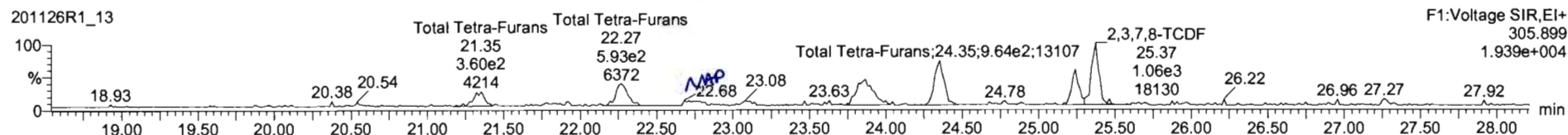
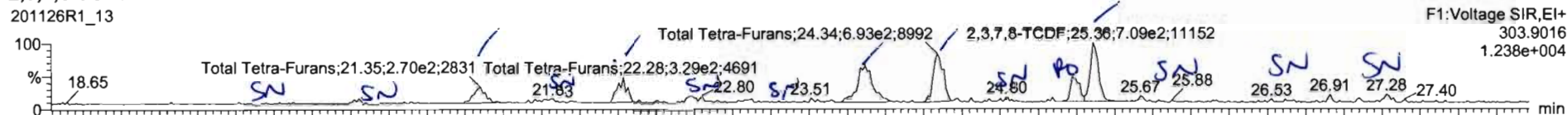


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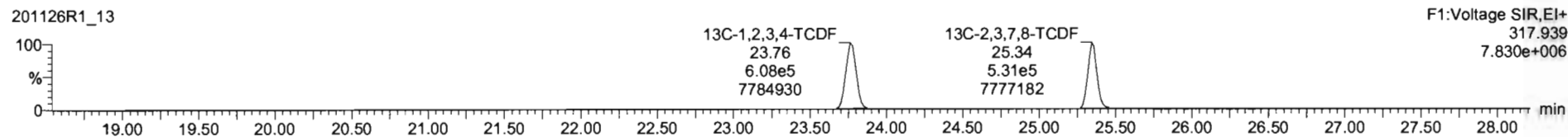
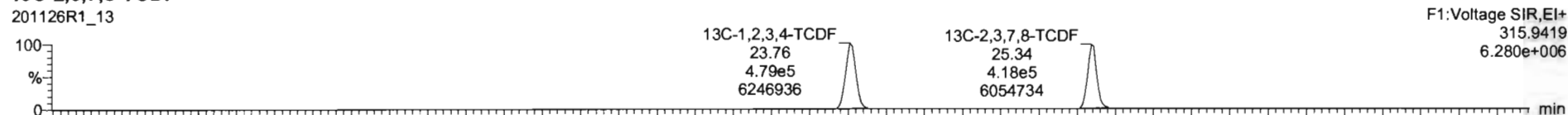
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_13, Date: 26-Nov-2020, Time: 17:35:08, ID: 2002375-08 USMPDI-047SC-A-04-05-201030 11.91, Description: USMPDI-047SC-A-04-05-201030

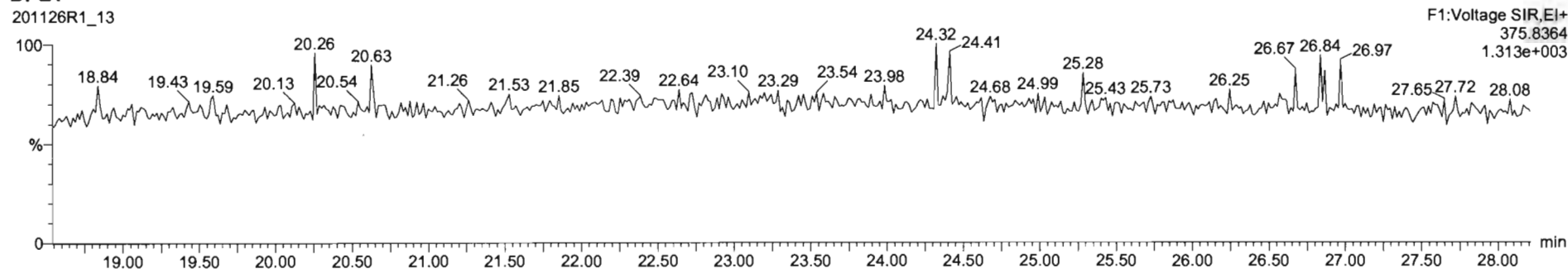
2,3,7,8-TCDF

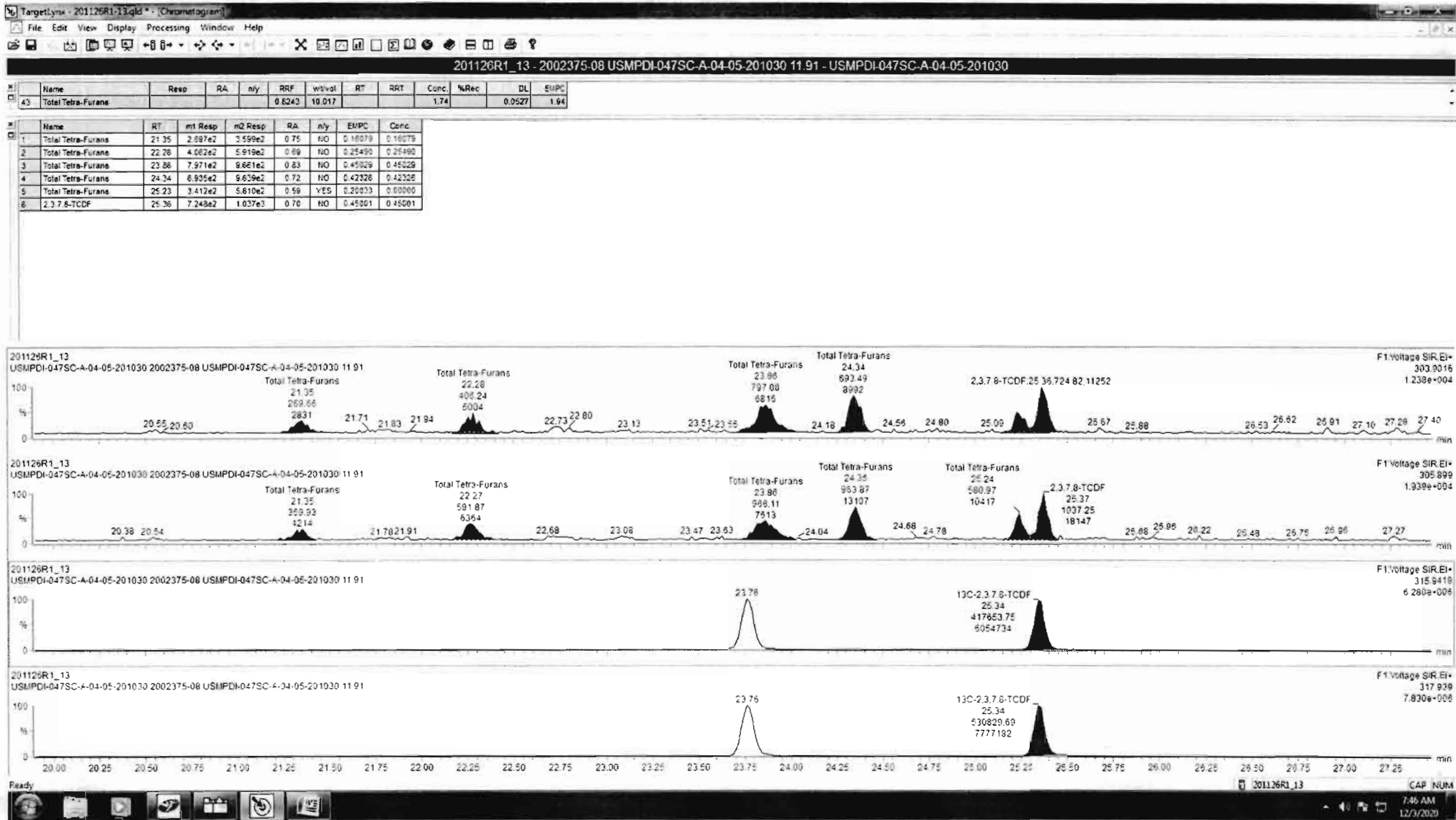


13C-2,3,7,8-TCDF



DPE1





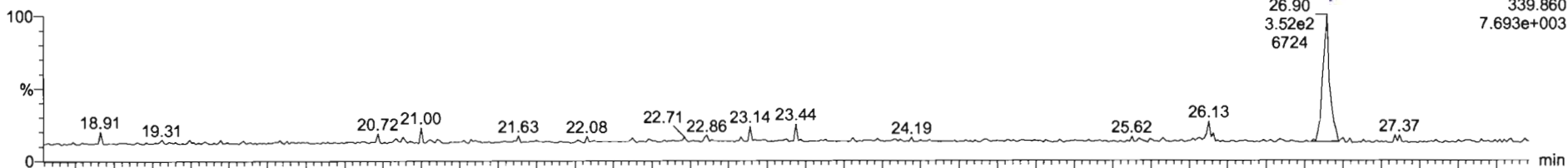
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

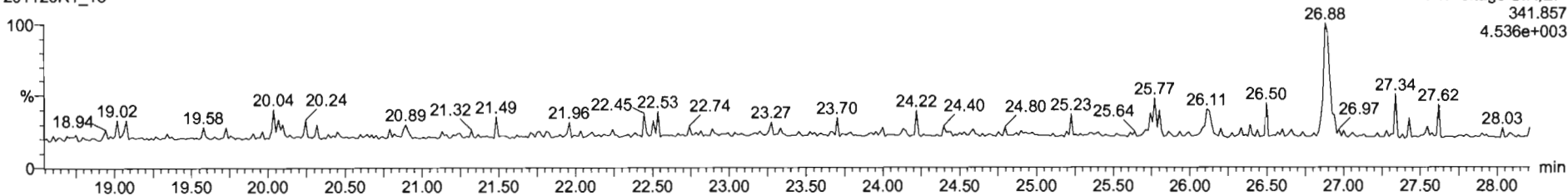
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1st Func. Penta-Furans

201126R1_13

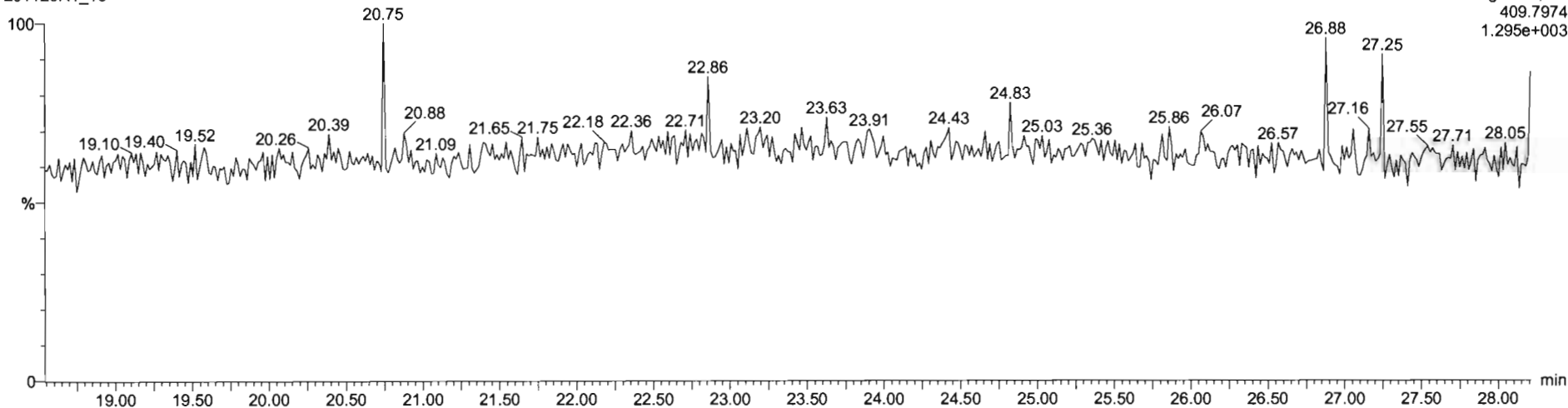


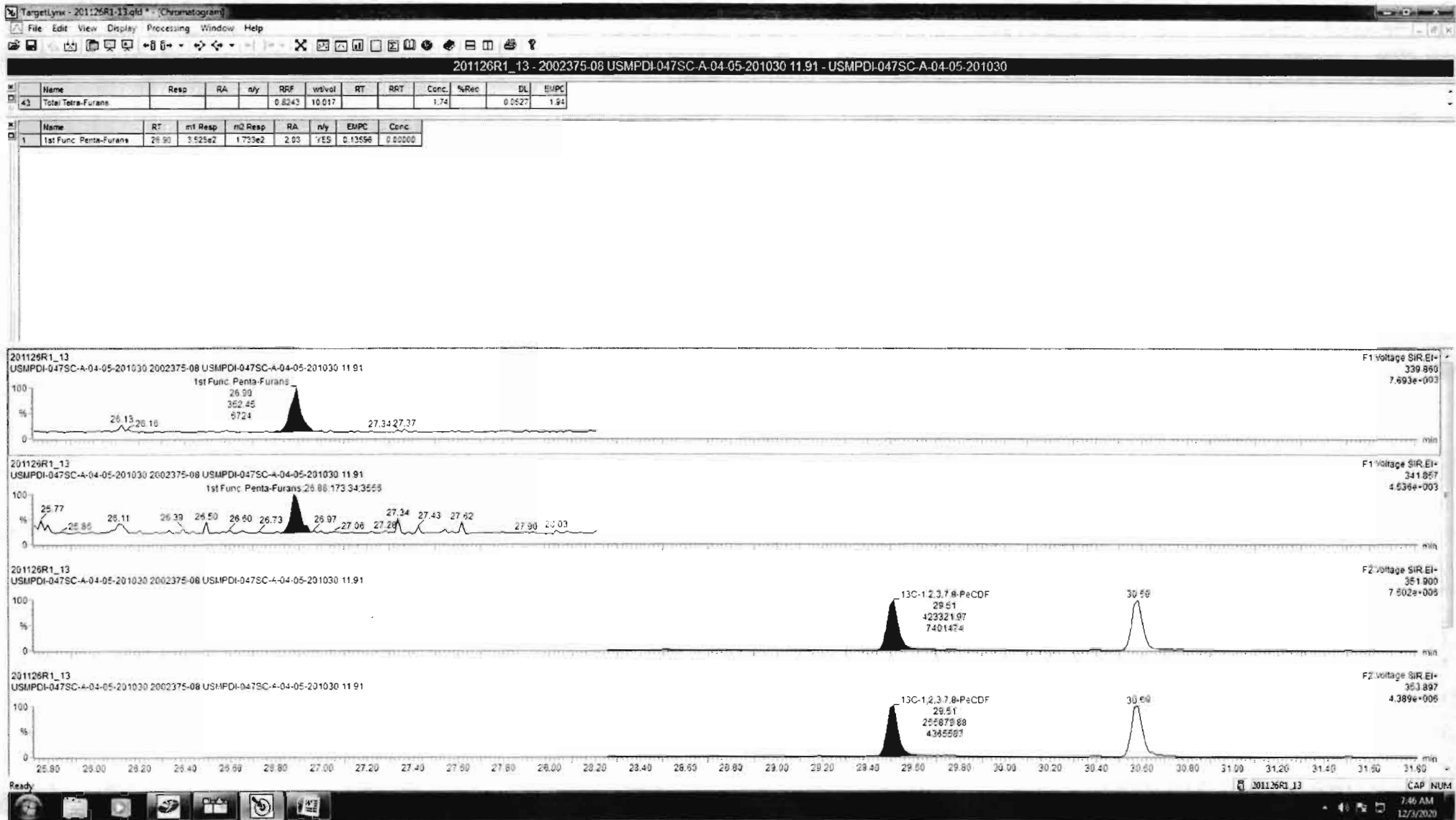
201126R1_13



DPE6

201126R1_13



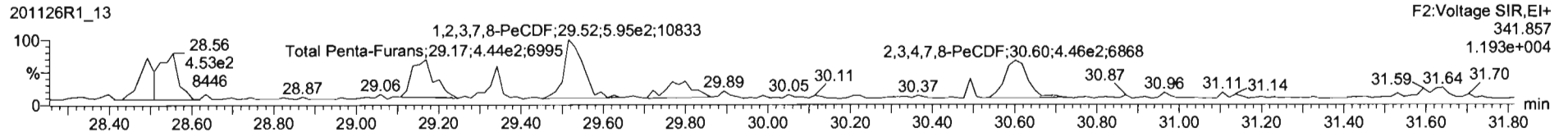


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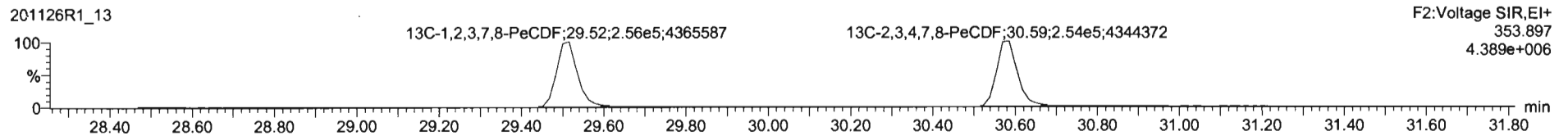
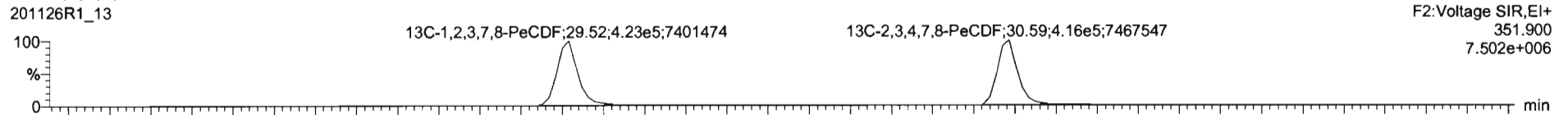
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Name: 201126R1_13, Date: 26-Nov-2020, Time: 17:35:08, ID: 2002375-08 USMPDI-047SC-A-04-05-201030 11.91, Description: USMPDI-047SC-A-04-05-201030

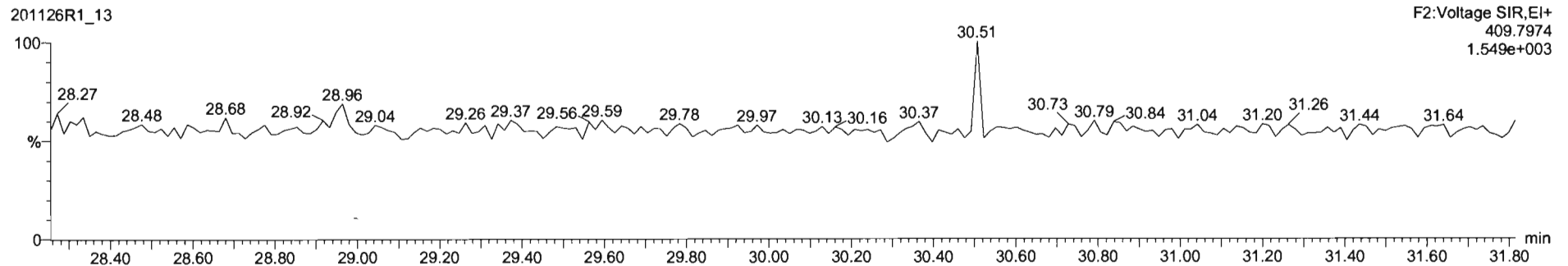
1,2,3,7,8-PeCDF

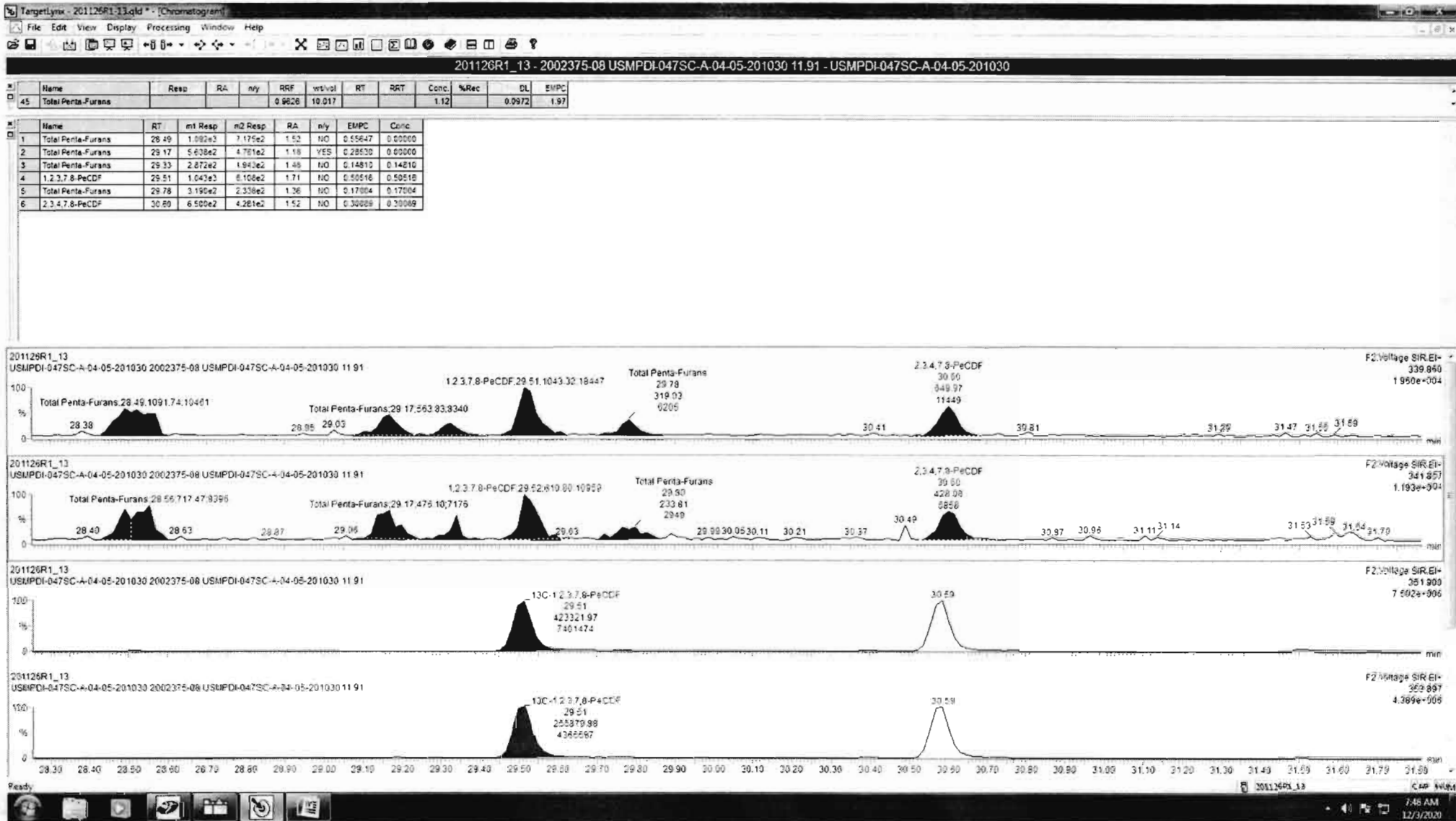


13C-1,2,3,7,8-PeCDF



DPE2





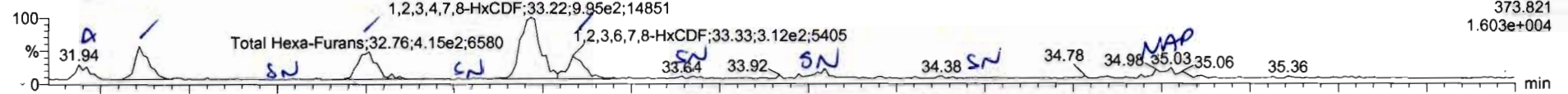
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_13, Date: 26-Nov-2020, Time: 17:35:08, ID: 2002375-08 USMPDI-047SC-A-04-05-201030 11.91, Description: USMPDI-047SC-A-04-05-201030

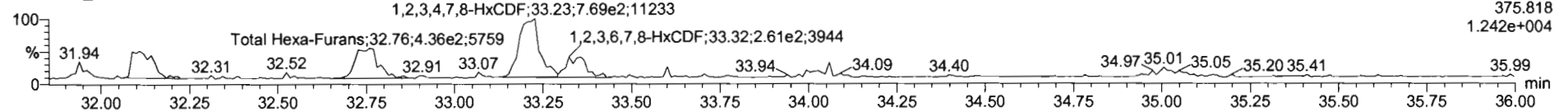
1,2,3,4,7,8-HxCDF

201126R1_13



F3:Voltage SIR,EI+
373.821
1.603e+004

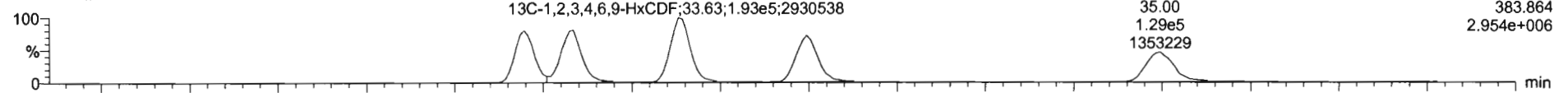
201126R1_13



F3:Voltage SIR,EI+
375.818
1.242e+004

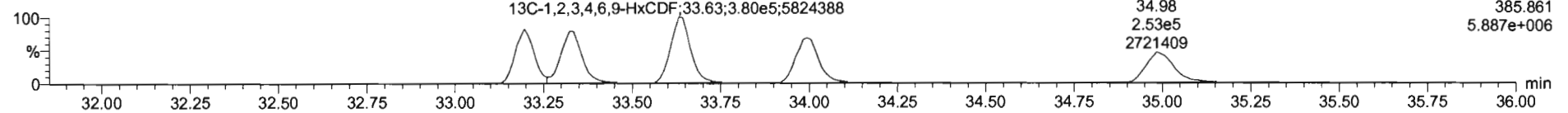
¹³C-1,2,3,4,7,8-HxCDF

201126R1_13



F3:Voltage SIR,EI+
383.864
2.954e+006

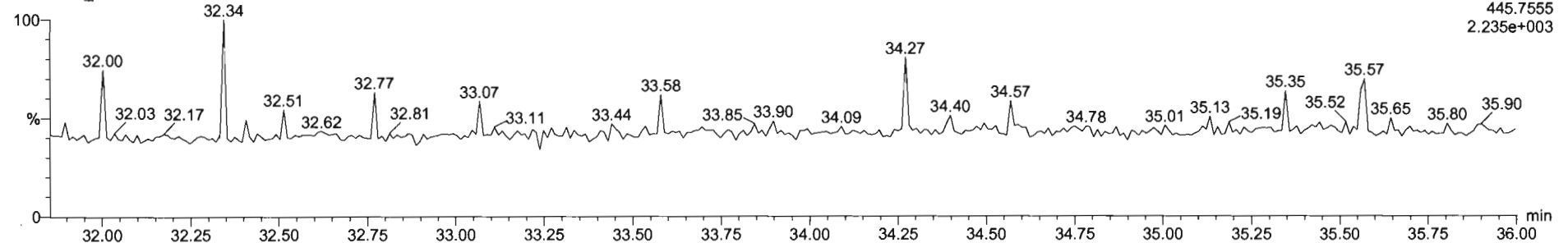
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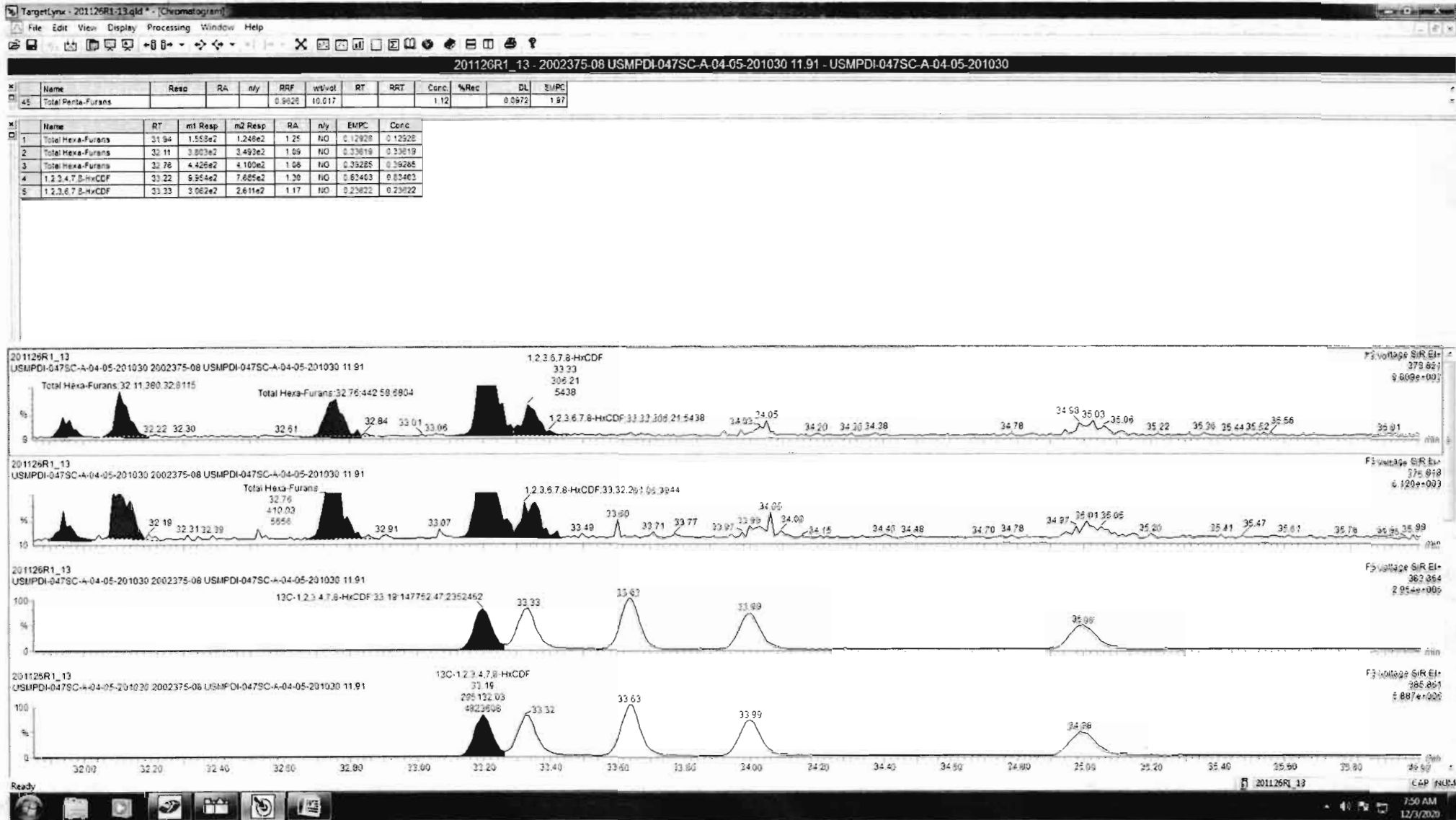
F3:Voltage SIR,EI+
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5.887e+006

DPE3

201126R1_13



F3:Voltage SIR,EI+
445.7555
2.235e+003

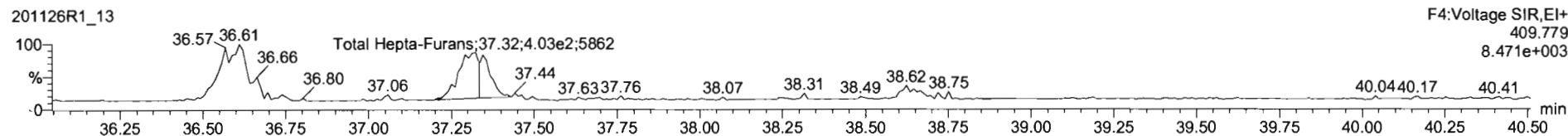
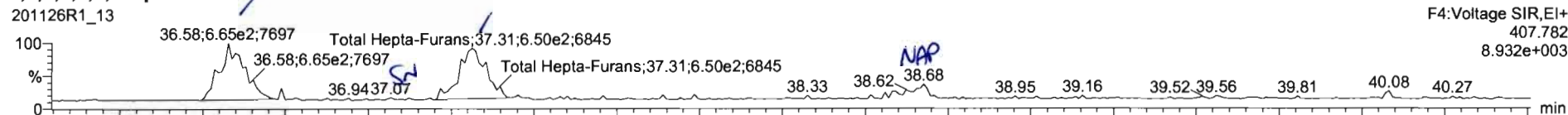


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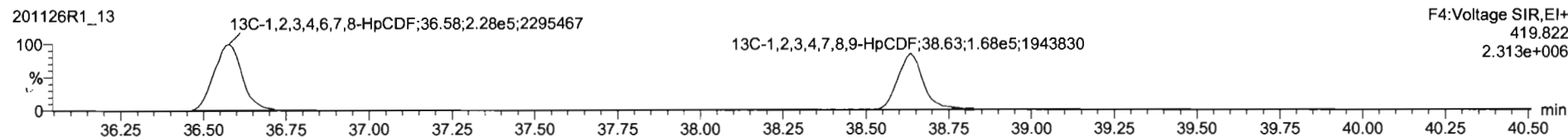
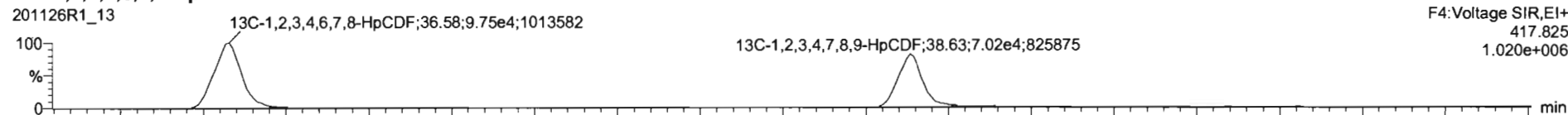
Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_13, Date: 26-Nov-2020, Time: 17:35:08, ID: 2002375-08 USMPDI-047SC-A-04-05-201030 11.91, Description: USMPDI-047SC-A-04-05-201030

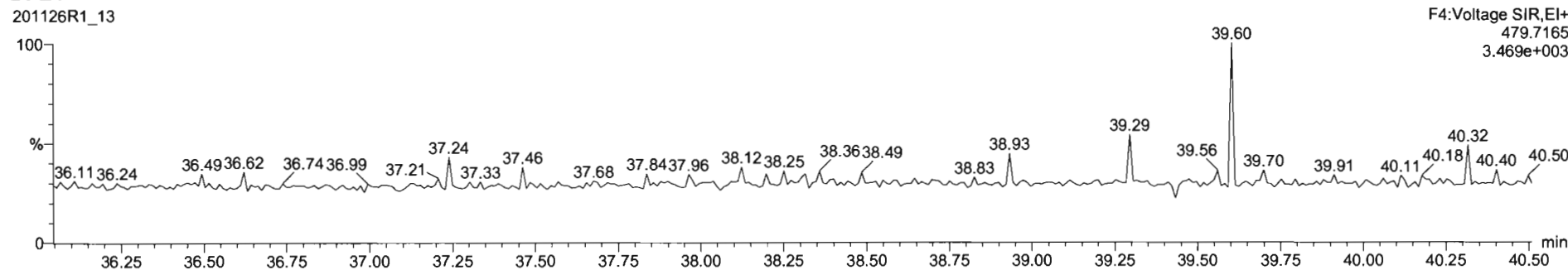
1,2,3,4,6,7,8-HpCDF

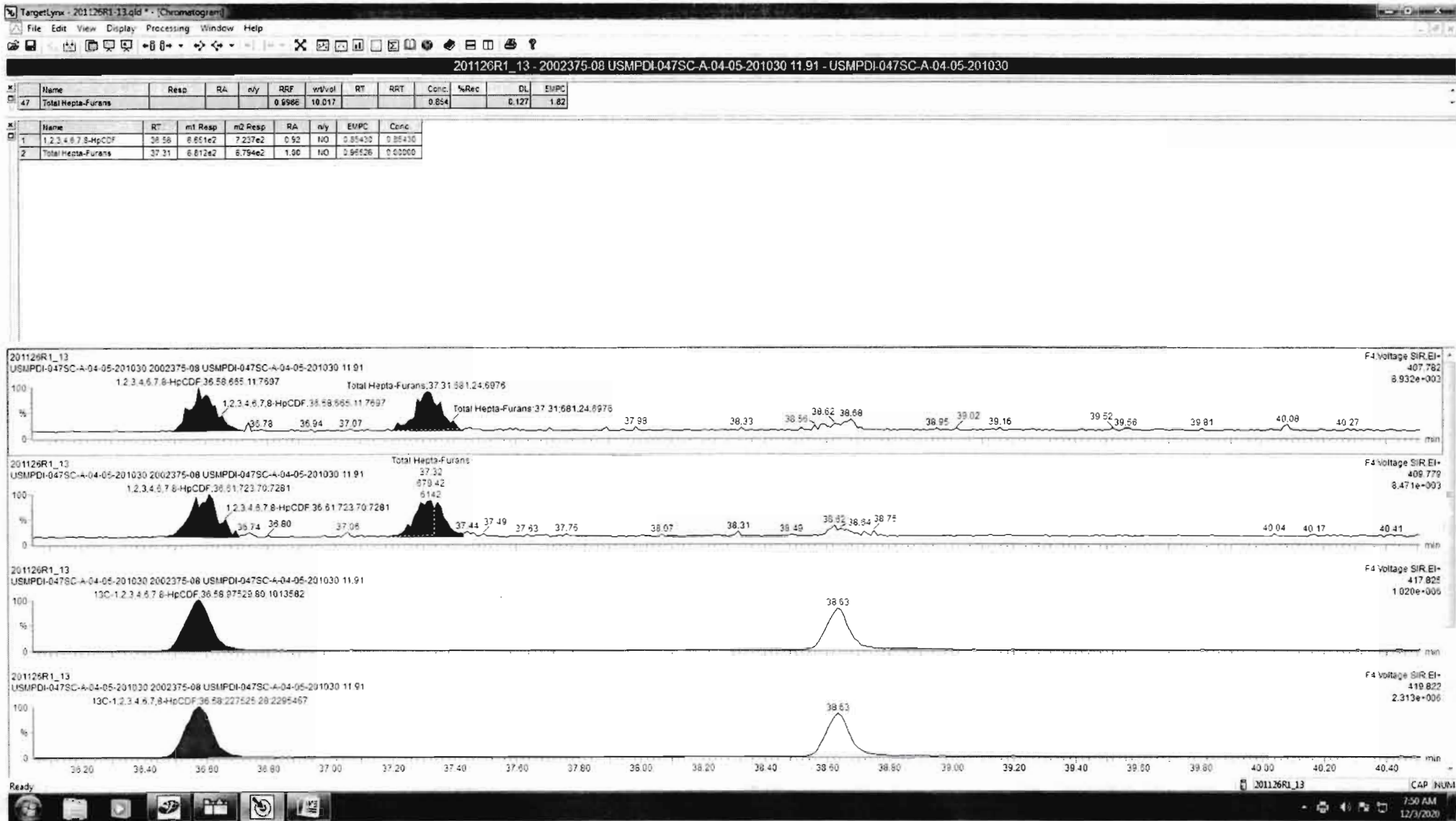


13C-1,2,3,4,6,7,8-HpCDF



DPE4

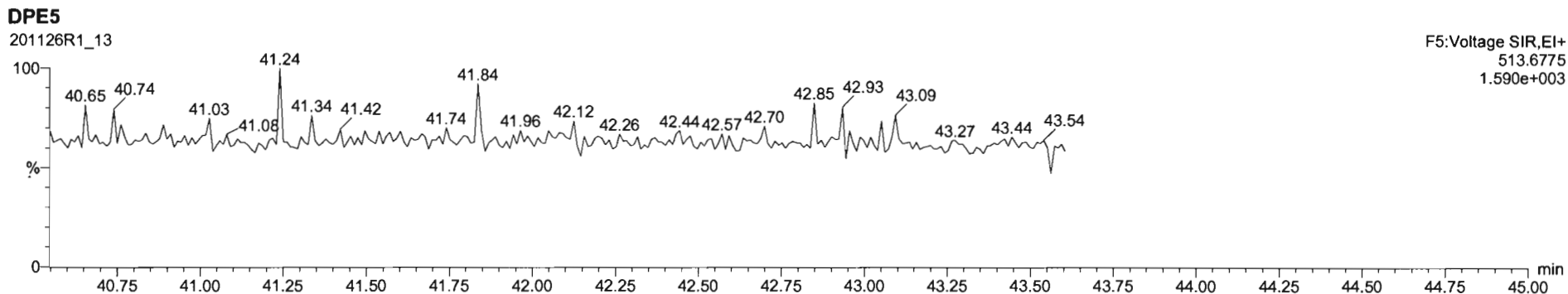
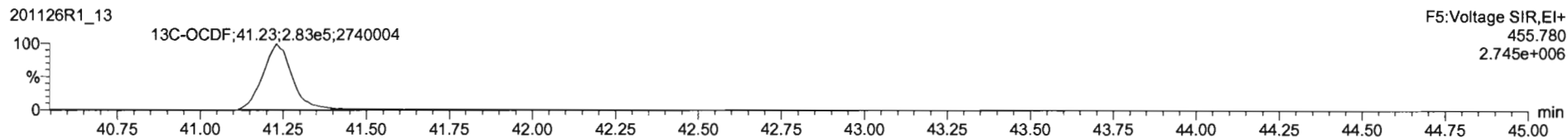
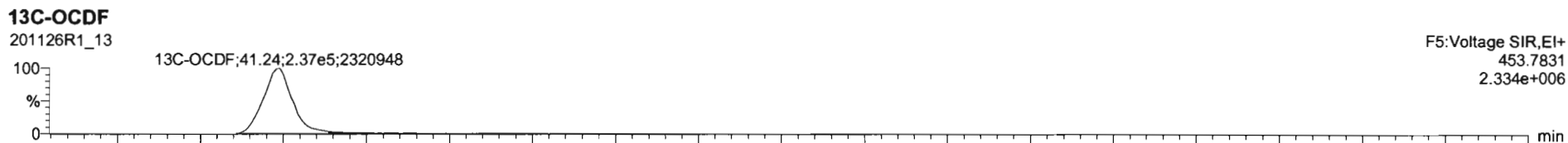
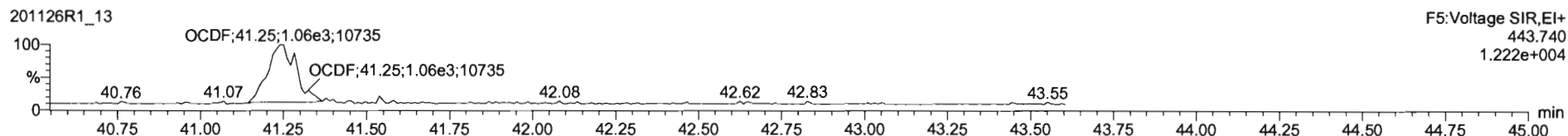
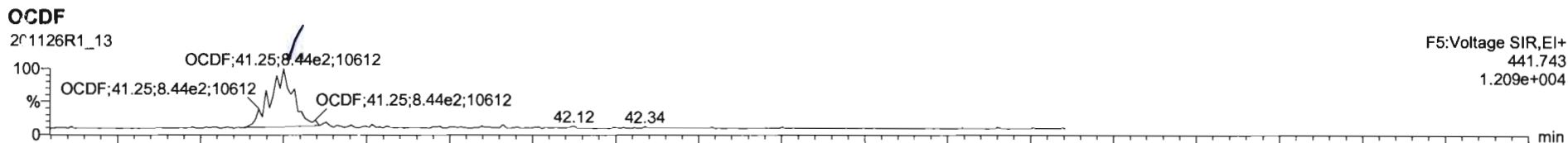




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Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

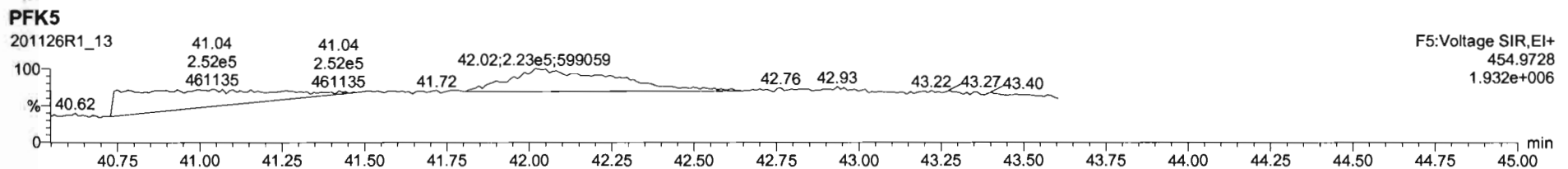
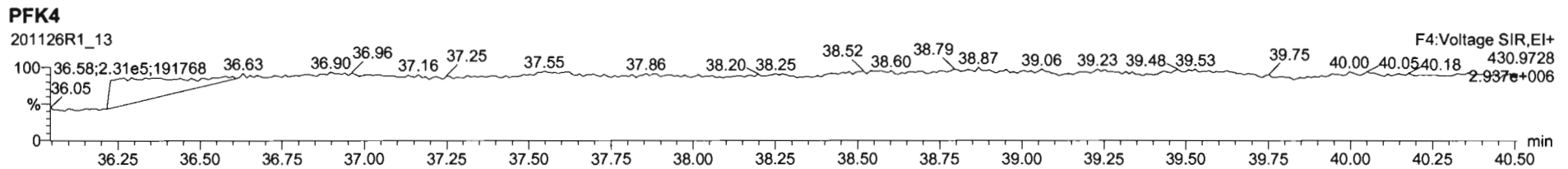
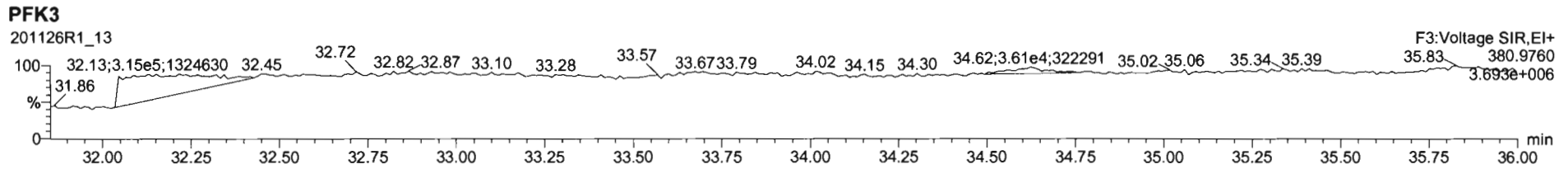
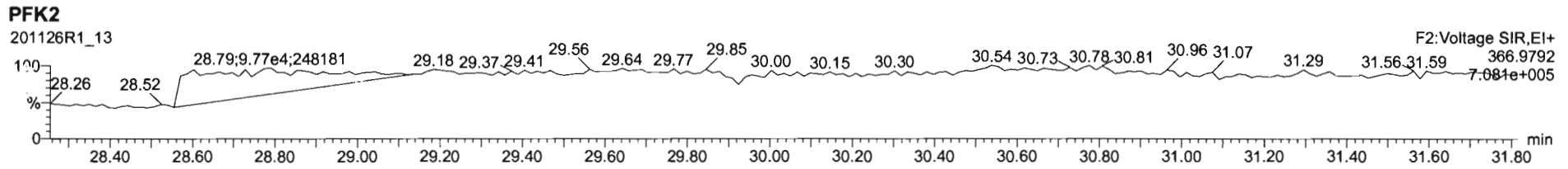
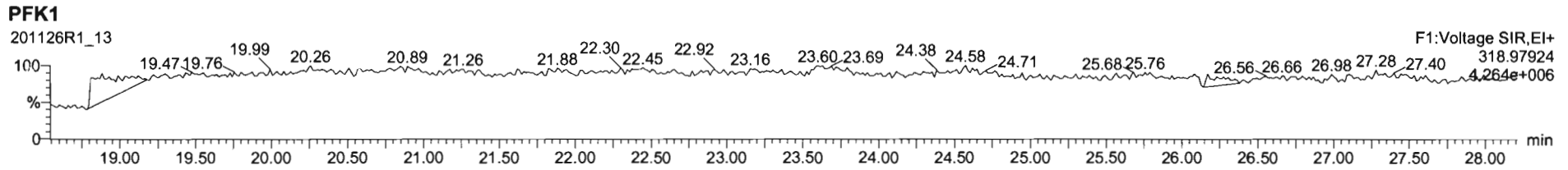
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Dataset: Untitled

Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_13, Date: 26-Nov-2020, Time: 17:35:08, ID: 2002375-08 USMPDI-047SC-A-04-05-201030 11.91, Description: USMPDI-047SC-A-04-05-201030



Dataset: U:\VG12.PRO\Results\201126R1\201126R1-14.qld

Last Altered: Thursday, December 03, 2020 08:16:02 Pacific Standard Time
Printed: Thursday, December 03, 2020 08:16:45 Pacific Standard Time

GPB 12/03/2020

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Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

C1 12/09/2020

Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030

#	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	1.86e3	0.57	YES	0.950	10.575	26.068	26.07	1.001	1.001	0.60287		0.0893	0.501
2	2 1,2,3,7,8-PeCDD	2.96e3	0.64	NO	0.885	10.575	30.784	30.79	1.000	1.001	1.4586		0.164	1.46
3	3 1,2,3,4,7,8-HxCDD	3.00e3	1.15	NO	1.02	10.575	34.111	34.11	1.000	1.000	1.3987		0.345	1.40
4	4 1,2,3,6,7,8-HxCDD	2.27e4	1.24	NO	0.915	10.575	34.228	34.24	1.000	1.001	10.180		0.352	10.2
5	5 1,2,3,7,8,9-HxCDD	8.75e3	1.34	NO	0.934	10.575	34.505	34.52	1.000	1.001	3.9810		0.384	3.98
6	6 1,2,3,4,6,7,8-HpCDD	3.09e5	1.02	NO	0.870	10.575	37.985	38.01	1.000	1.001	181.38		1.58	181
7	7 OCDD	2.57e6	0.88	NO	0.872	10.575	40.964	40.99	1.000	1.001	1863.7		1.45	1860
8	8 2,3,7,8-TCDF	5.53e4	0.73	NO	0.824	10.575	25.352	25.37	1.000	1.001	13.556		0.102	13.6
9	9 1,2,3,7,8-PeCDF	1.04e5	1.51	NO	0.963	10.575	29.525	29.52	1.000	1.000	23.697		0.240	23.7
10	10 2,3,4,7,8-PeCDF	5.55e4	1.56	NO	1.07	10.575	30.587	30.60	1.000	1.000	11.688		0.236	11.7
11	11 1,2,3,4,7,8-HxCDF	1.31e5	1.20	NO	0.953	10.575	33.196	33.21	1.000	1.000	45.592		0.181	45.6
12	12 1,2,3,6,7,8-HxCDF	3.93e4	1.22	NO	1.01	10.575	33.323	33.33	1.000	1.000	12.459		0.179	12.5
13	13 2,3,4,6,7,8-HxCDF	1.01e4	1.15	NO	0.991	10.575	33.997	34.02	1.000	1.001	3.4670		0.211	3.47
14	14 1,2,3,7,8,9-HxCDF	5.46e3	1.12	NO	0.951	10.575	34.985	35.02	1.000	1.001	2.2905		0.322	2.29
15	15 1,2,3,4,6,7,8-HpCDF	7.81e4	0.98	NO	0.999	10.575	36.572	36.58	1.000	1.000	35.859		0.304	35.9
16	16 1,2,3,4,7,8,9-HpCDF	1.26e4	0.95	NO	1.12	10.575	38.624	38.63	1.000	1.000	6.7517		0.307	6.75
17	17 OCDF	9.87e4	0.86	NO	0.868	10.575	41.259	41.26	1.000	1.000	64.529		0.286	64.5
18	18 13C-2,3,7,8-TCDD	6.15e5	0.81	NO	1.11	10.575	26.028	26.04	1.030	1.030	156.45	82.7	0.219	
19	19 13C-1,2,3,7,8-PeCDD	4.33e5	0.67	NO	0.859	10.575	30.738	30.77	1.216	1.218	142.44	75.3	0.256	
20	20 13C-1,2,3,4,7,8-HxCDD	3.98e5	1.30	NO	0.700	10.575	34.099	34.10	1.014	1.014	147.90	78.2	0.440	
21	21 13C-1,2,3,6,7,8-HxCDD	4.62e5	1.28	NO	0.833	10.575	34.237	34.22	1.018	1.017	144.08	76.2	0.370	
22	22 13C-1,2,3,7,8,9-HxCDD	4.45e5	1.29	NO	0.762	10.575	34.480	34.49	1.025	1.026	151.74	80.2	0.405	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.70e5	1.10	NO	0.650	10.575	37.960	37.99	1.129	1.129	148.16	78.3	0.749	
24	24 13C-OCDD	5.99e5	0.90	NO	0.539	10.575	40.923	40.96	1.217	1.218	288.44	76.3	0.646	
25	25 13C-2,3,7,8-TCDF	9.36e5	0.79	NO	0.981	10.575	25.351	25.34	1.003	1.003	140.10	74.1	0.228	
26	26 13C-1,2,3,7,8-PeCDF	8.58e5	1.67	NO	0.792	10.575	29.472	29.52	1.166	1.168	159.15	84.2	0.379	
27	27 13C-2,3,4,7,8-PeCDF	8.41e5	1.63	NO	0.778	10.575	30.529	30.59	1.208	1.210	158.72	83.9	0.386	
28	28 13C-1,2,3,4,7,8-HxCDF	5.69e5	0.51	NO	0.954	10.575	33.191	33.20	0.987	0.987	155.15	82.0	0.627	
29	29 13C-1,2,3,6,7,8-HxCDF	5.91e5	0.50	NO	1.01	10.575	33.323	33.32	0.991	0.991	152.73	80.8	0.594	
30	30 13C-2,3,4,6,7,8-HxCDF	5.56e5	0.51	NO	0.921	10.575	33.992	33.99	1.011	1.011	157.00	83.0	0.649	
31	31 13C-1,2,3,7,8,9-HxCDF	4.74e5	0.51	NO	0.803	10.575	34.987	34.99	1.040	1.040	153.30	81.1	0.744	

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-14.qld

Last Altered: Thursday, December 03, 2020 08:16:02 Pacific Standard Time
Printed: Thursday, December 03, 2020 08:16:45 Pacific Standard Time

Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030

#	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	4.12e5	0.43	NO	0.735	10.575	36.555	36.57	1.087	1.087	145.75	77.1	0.536	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.13e5	0.42	NO	0.568	10.575	38.589	38.62	1.147	1.148	143.20	75.7	0.694	
34	34 13C-OCDF	6.67e5	0.87	NO	0.629	10.575	41.206	41.25	1.225	1.227	275.32	72.8	0.529	
35	35 37Cl-2,3,7,8-TCDD	3.00e5			1.09	10.575	26.028	26.07	1.030	1.032	77.723	103	0.0929	
36	36 13C-1,2,3,4-TCDD	6.70e5	0.83	NO	1.00	10.575	25.370	25.27	1.000	1.000	189.12	100	0.243	
37	37 13C-1,2,3,4-TCDF	1.29e6	0.78	NO	1.00	10.575	23.870	23.78	1.000	1.000	189.12	100	0.223	
38	38 13C-1,2,3,4,6,9-HxCDF	7.28e5	0.51	NO	1.00	10.575	33.710	33.63	1.000	1.000	189.12	100	0.598	
39	39 Total Tetra-Dioxins				0.950	10.575	24.620		0.000		4.8945		0.0893	5.76
40	40 Total Penta-Dioxins				0.885	10.575	29.960		0.000		10.837		0.164	13.3
41	41 Total Hexa-Dioxins				0.915	10.575	33.635		0.000		80.307		0.375	80.3
42	42 Total Hepta-Dioxins				0.870	10.575	37.640		0.000		398.98		1.58	399
43	43 Total Tetra-Furans				0.824	10.575	23.610		0.000		46.598		0.102	50.0
44	44 1st Func. Penta-Furans				0.963	10.575	26.930		0.000		7.9400		0.0265	7.94
45	45 Total Penta-Furans				0.963	10.575	29.275		0.000		61.719		0.251	62.7
46	46 Total Hexa-Furans				0.991	10.575	33.555		0.000		108.85		0.215	109
47	47 Total Hepta-Furans				0.999	10.575	37.835		0.000		87.732		0.322	87.7

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-14.qld

Last Altered: Thursday, December 03, 2020 08:16:02 Pacific Standard Time

Printed: Thursday, December 03, 2020 08:16:45 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.24	2.207e4	2.804e4	2.073e3	2.520e3	0.82	NO	4.593e3	1.4878	1.4878	0.0893
2	Total Tetra-Dioxins	22.55	8.344e3	1.385e4	8.787e2	1.142e3	0.77	NO	2.020e3	0.65436	0.65436	0.0893
3	Total Tetra-Dioxins	23.13	6.640e3	9.261e3	5.018e2	7.270e2	0.69	NO	1.229e3	0.39800	0.39800	0.0893
4	Total Tetra-Dioxins	23.95	4.411e3	4.897e3	2.418e2	3.556e2	0.68	NO	5.975e2	0.19351	0.19351	0.0893
5	Total Tetra-Dioxins	24.18	5.913e3	8.367e3	4.201e2	5.680e2	0.74	NO	9.881e2	0.32003	0.32003	0.0893
6	Total Tetra-Dioxins	24.40	8.361e3	1.134e4	6.321e2	8.839e2	0.72	NO	1.516e3	0.49101	0.49101	0.0893
7	Total Tetra-Dioxins	24.62	2.666e3	3.223e3	2.269e2	2.643e2	0.86	NO	4.913e2	0.15912	0.15912	0.0893
8	Total Tetra-Dioxins	24.90	3.735e3	4.986e3	2.421e2	3.388e2	0.71	NO	0.000e0	0.00000	0.18813	0.0893
9	Total Tetra-Dioxins	24.99	5.905e3	5.900e3	3.218e2	3.123e2	1.03	YES	0.000e0	0.00000	0.17905	0.0893
10	Total Tetra-Dioxins	25.79	2.387e4	2.684e4	1.314e3	1.832e3	0.72	NO	3.146e3	1.0191	1.0191	0.0893
11	2,3,7,8-TCDD	26.07	1.029e4	1.797e4	6.732e2	1.191e3	0.57	YES	1.864e3	0.00000	0.50118	0.0893
12	Total Tetra-Dioxins	26.39	4.741e3	4.901e3	2.318e2	2.980e2	0.78	NO	5.298e2	0.17160	0.17160	0.0893

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.52	4.061e4	6.120e4	3.203e3	5.341e3	0.60	NO	8.543e3	4.2121	4.2121	0.164
2	Total Penta-Dioxins	29.00	1.289e4	1.910e4	6.261e2	1.021e3	0.61	NO	1.647e3	0.81186	0.81186	0.164
3	Total Penta-Dioxins	29.52	2.478e4	4.359e4	1.616e3	2.253e3	0.72	NO	3.869e3	1.9075	1.9075	0.164
4	Total Penta-Dioxins	29.69	2.416e4	3.782e4	1.413e3	2.151e3	0.66	NO	0.000e0	0.00000	1.7572	0.164
5	Total Penta-Dioxins	29.74	1.569e4	2.153e4	7.135e2	9.109e2	0.78	YES	0.000e0	0.00000	0.73206	0.164
6	Total Penta-Dioxins	30.00	1.883e4	3.109e4	1.381e3	2.006e3	0.69	NO	3.386e3	1.6695	1.6695	0.164
7	1,2,3,7,8-PeCDD	30.79	2.281e4	3.267e4	1.149e3	1.809e3	0.64	NO	2.958e3	1.4586	1.4586	0.164
8	Total Penta-Dioxins	30.87	6.983e3	9.804e3	3.148e2	4.687e2	0.67	NO	7.835e2	0.38628	0.38628	0.164
9	Total Penta-Dioxins	31.14	5.336e3	8.228e3	2.957e2	4.968e2	0.60	NO	7.924e2	0.39069	0.39069	0.164

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Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.48	5.428e5	3.986e5	2.763e4	2.222e4	1.24	NO	4.984e4	23.699	23.699	0.375
2	Total Hexa-Dioxins	33.07	4.594e4	3.747e4	2.668e3	2.277e3	1.17	NO	4.945e3	2.3515	2.3515	0.375
3	Total Hexa-Dioxins	33.37	5.586e5	4.491e5	4.217e4	3.347e4	1.26	NO	7.564e4	35.966	35.966	0.375
4	Total Hexa-Dioxins	33.43	6.130e4	4.415e4	2.402e3	1.824e3	1.32	NO	4.226e3	2.0095	2.0095	0.375
5	1,2,3,4,7,8-HxCDD	34.11	2.301e4	2.094e4	1.602e3	1.395e3	1.15	NO	2.997e3	1.3987	1.3987	0.345
6	1,2,3,6,7,8-HxCDD	34.24	1.680e5	1.395e5	1.258e4	1.015e4	1.24	NO	2.273e4	10.180	10.180	0.352
7	Total Hexa-Dioxins	34.39	1.379e4	1.147e4	8.539e2	6.634e2	1.29	NO	1.517e3	0.72145	0.72145	0.375
8	1,2,3,7,8,9-HxCDD	34.52	6.751e4	4.950e4	5.004e3	3.746e3	1.34	NO	8.750e3	3.9810	3.9810	0.384

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.96	1.872e6	1.901e6	1.858e5	1.848e5	1.01	NO	3.706e5	217.60	217.60	1.58
2	1,2,3,4,6,7,8-HpCDD	38.01	1.782e6	1.737e6	1.559e5	1.530e5	1.02	NO	3.089e5	181.38	181.38	1.58

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Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.01	2.297e3	2.521e3	1.781e2	2.357e2	0.76	NO	4.138e2	0.10139	0.10139	0.102
2	Total Tetra-Furans	20.55	1.363e4	1.943e4	1.230e3	1.571e3	0.78	NO	2.801e3	0.68626	0.68626	0.102
3	Total Tetra-Furans	21.34	5.692e4	7.668e4	5.387e3	7.235e3	0.74	NO	1.262e4	3.0925	3.0925	0.102
4	Total Tetra-Furans	21.72	5.882e3	9.017e3	4.234e2	6.343e2	0.67	NO	1.058e3	0.25915	0.25915	0.102
5	Total Tetra-Furans	21.80	1.927e4	2.603e4	1.749e3	2.279e3	0.77	NO	4.028e3	0.98690	0.98690	0.102
6	Total Tetra-Furans	21.90	1.193e4	1.090e4	6.743e2	8.030e2	0.84	NO	1.477e3	0.36196	0.36196	0.102
7	Total Tetra-Furans	22.17	7.796e3	8.097e3	4.207e2	4.899e2	0.86	NO	9.106e2	0.22311	0.22311	0.102
8	Total Tetra-Furans	22.27	7.407e4	1.058e5	7.097e3	9.564e3	0.74	NO	1.666e4	4.0823	4.0823	0.102
9	Total Tetra-Furans	22.74	4.234e4	5.582e4	3.196e3	4.317e3	0.74	NO	7.512e3	1.8407	1.8407	0.102
10	Total Tetra-Furans	22.89	1.258e4	1.957e4	1.153e3	1.662e3	0.69	NO	2.815e3	0.68981	0.68981	0.102
11	Total Tetra-Furans	23.10	2.197e4	3.116e4	1.795e3	2.352e3	0.76	NO	4.147e3	1.0161	1.0161	0.102
12	Total Tetra-Furans	23.50	4.307e3	6.893e3	3.225e2	4.743e2	0.68	NO	7.968e2	0.19523	0.19523	0.102
13	Total Tetra-Furans	23.61	9.612e3	1.371e4	7.003e2	1.050e3	0.67	NO	1.750e3	0.42878	0.42878	0.102
14	Total Tetra-Furans	23.82	2.741e4	3.749e4	8.487e2	1.200e3	0.71	NO	2.048e3	0.50191	0.50191	0.102
15	Total Tetra-Furans	23.85	4.347e4	5.778e4	5.555e3	7.001e3	0.79	NO	0.000e0	0.00000	3.0766	0.102
16	Total Tetra-Furans	24.35	3.132e5	4.138e5	2.213e4	3.013e4	0.73	NO	5.226e4	12.806	12.806	0.102
17	Total Tetra-Furans	24.68	1.185e4	1.813e4	9.854e2	1.255e3	0.78	NO	2.241e3	0.54903	0.54903	0.102
18	Total Tetra-Furans	24.78	6.033e3	7.470e3	3.419e2	4.410e2	0.78	NO	7.828e2	0.19181	0.19181	0.102
19	Total Tetra-Furans	25.09	7.363e3	1.072e4	4.694e2	5.685e2	0.83	NO	1.038e3	0.25428	0.25428	0.102
20	Total Tetra-Furans	25.24	5.096e4	6.943e4	3.166e3	4.352e3	0.73	NO	7.517e3	1.8419	1.8419	0.102
21	2,3,7,8-TCDF	25.37	3.424e5	4.949e5	2.328e4	3.204e4	0.73	NO	5.533e4	13.556	13.556	0.102
22	Total Tetra-Furans	25.62	1.056e4	1.212e4	5.447e2	6.476e2	0.84	NO	1.192e3	0.29212	0.29212	0.102
23	Total Tetra-Furans	25.68	2.020e4	2.996e4	1.260e3	1.777e3	0.71	NO	3.037e3	0.74405	0.74405	0.102
24	Total Tetra-Furans	25.97	5.223e3	1.124e4	3.723e2	5.349e2	0.70	NO	9.072e2	0.22228	0.22228	0.102
25	Total Tetra-Furans	26.91	1.386e4	1.862e4	8.585e2	1.287e3	0.67	NO	2.146e3	0.52576	0.52576	0.102
26	Total Tetra-Furans	27.10	1.356e4	8.729e3	8.475e2	6.867e2	1.23	YES	0.000e0	0.00000	0.29782	0.102
27	Total Tetra-Furans	27.28	3.095e4	4.677e4	2.031e3	2.658e3	0.76	NO	4.688e3	1.1488	1.1488	0.102

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.90	3.676e5	2.136e5	2.136e4	1.297e4	1.65	NO	3.433e4	7.9400	7.9400	0.0265

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Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.37	4.690e4	2.637e4	3.077e3	1.796e3	1.71	NO	4.873e3	1.1272	1.1272	0.251
2	Total Penta-Furans	28.54	5.195e5	3.382e5	3.542e4	2.237e4	1.58	NO	5.779e4	13.367	13.367	0.251
3	Total Penta-Furans	29.17	1.180e5	7.256e4	6.818e3	4.763e3	1.43	NO	1.158e4	2.6785	2.6785	0.251
4	Total Penta-Furans	29.33	9.955e4	6.553e4	5.225e3	3.694e3	1.41	NO	8.919e3	2.0630	2.0630	0.251
5	1,2,3,7,8-PeCDF	29.52	1.174e6	7.520e5	6.225e4	4.126e4	1.51	NO	1.035e5	23.697	23.697	0.240
6	Total Penta-Furans	29.63	1.657e4	1.250e4	6.973e2	6.278e2	1.11	YES	0.000e0	0.00000	0.26535	0.251
7	Total Penta-Furans	29.78	3.279e5	2.223e5	1.741e4	1.158e4	1.50	NO	2.899e4	6.7059	6.7059	0.251
8	Total Penta-Furans	30.41	1.671e4	1.100e4	1.015e3	6.793e2	1.49	NO	1.694e3	0.39182	0.39182	0.251
9	2,3,4,7,8-PeCDF	30.60	6.013e5	3.621e5	3.385e4	2.166e4	1.56	NO	5.551e4	11.688	11.688	0.236
10	Total Penta-Furans	31.52	2.319e4	1.383e4	2.068e3	1.142e3	1.81	YES	0.000e0	0.00000	0.67334	0.251

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	31.95	1.658e5	1.380e5	8.293e3	7.134e3	1.16	NO	1.543e4	5.3766	5.3766	0.215
2	Total Hexa-Furans	32.12	4.805e5	3.940e5	2.565e4	2.193e4	1.17	NO	4.758e4	16.584	16.584	0.215
3	Total Hexa-Furans	32.52	1.337e4	8.521e3	5.139e2	4.516e2	1.14	NO	9.654e2	0.33648	0.33648	0.215
4	Total Hexa-Furans	32.75	5.796e5	4.891e5	3.243e4	2.674e4	1.21	NO	5.917e4	20.623	20.623	0.215
5	Total Hexa-Furans	33.08	1.253e4	9.947e3	7.202e2	5.738e2	1.26	NO	1.294e3	0.45097	0.45097	0.215
6	1,2,3,4,7,8-HxCDF	33.21	1.177e6	1.002e6	7.148e4	5.940e4	1.20	NO	1.309e5	45.592	45.592	0.181
7	1,2,3,6,7,8-HxCDF	33.33	3.246e5	2.735e5	2.156e4	1.770e4	1.22	NO	3.926e4	12.459	12.459	0.179
8	2,3,4,6,7,8-HxCDF	34.02	7.475e4	6.693e4	5.404e3	4.702e3	1.15	NO	1.011e4	3.4670	3.4670	0.211
9	1,2,3,7,8,9-HxCDF	35.02	6.099e4	4.921e4	2.885e3	2.572e3	1.12	NO	5.456e3	2.2905	2.2905	0.322
10	Total Hexa-Furans	35.04	5.507e4	4.992e4	2.575e3	2.217e3	1.16	NO	4.792e3	1.6701	1.6701	0.215

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	36.58	4.178e5	4.208e5	3.856e4	3.954e4	0.98	NO	7.810e4	35.859	35.859	0.304
2	Total Hepta-Furans	37.30	4.422e5	4.468e5	4.272e4	4.368e4	0.98	NO	8.640e4	45.121	45.121	0.322
3	1,2,3,4,7,8,9-HpCDF	38.63	7.045e4	7.757e4	6.116e3	6.434e3	0.95	NO	1.255e4	6.7517	6.7517	0.307

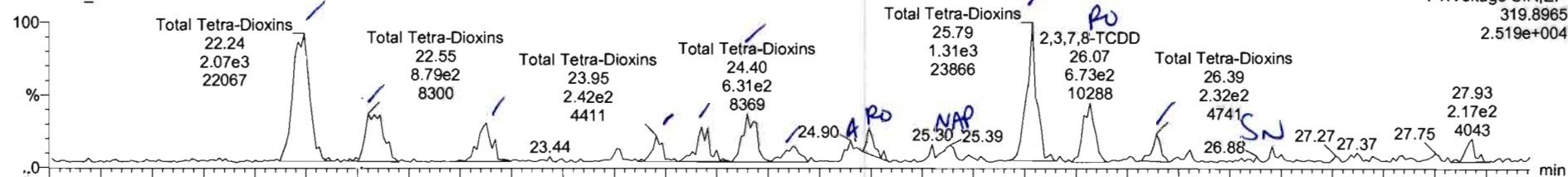
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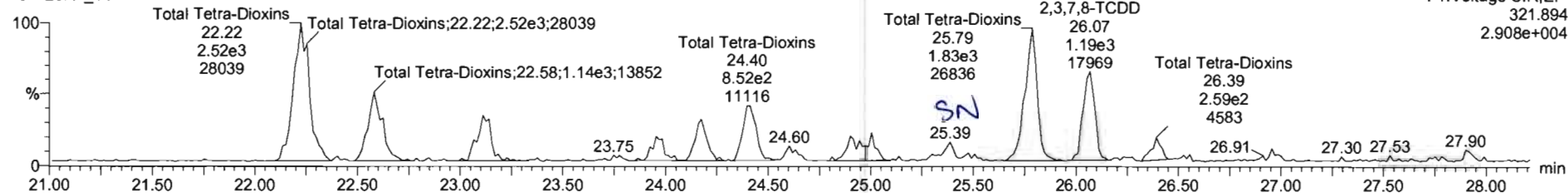
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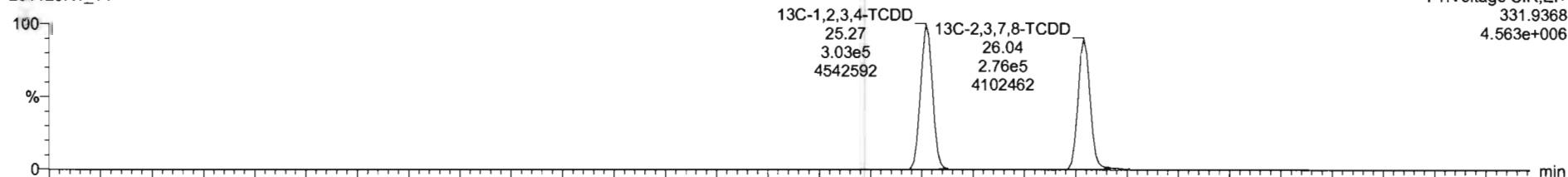


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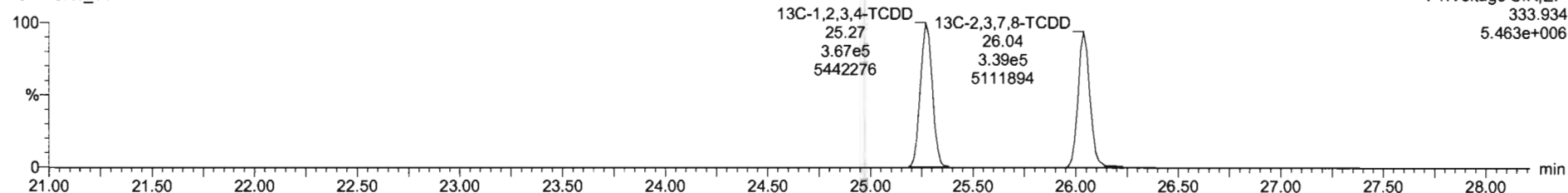


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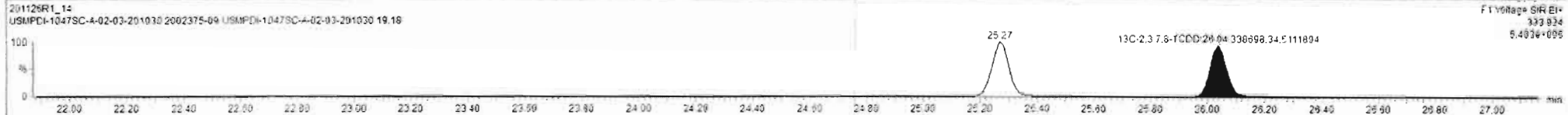
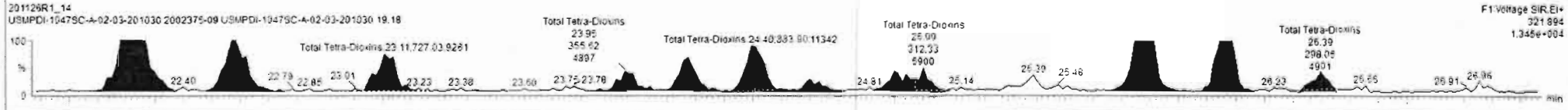
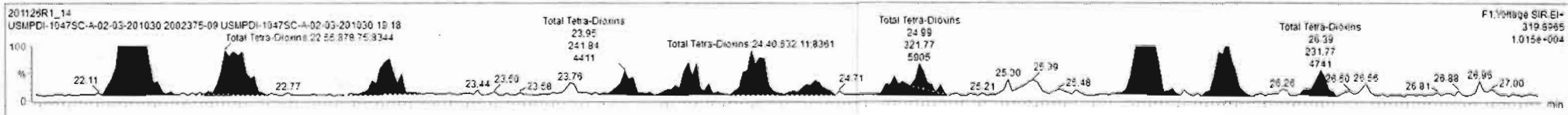
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Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9501	10.575			4.88		0.0893	5.76

Name	RT	mt Resp	nQ Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	22.24	2.073e3	2.520e3	0.82	NO	1.4878	1.4878
2 Total Tetra-Dioxins	22.55	8.787e2	1.142e3	0.77	NO	8.85438	0.85438
3 Total Tetra-Dioxins	23.13	5.018e2	7.270e2	0.69	NO	8.39800	0.39800
4 Total Tetra-Dioxins	23.95	2.418e2	3.555e2	0.68	NO	8.19351	0.19351
5 Total Tetra-Dioxins	24.18	4.201e2	5.800e2	0.74	NO	8.32003	0.32003
6 Total Tetra-Dioxins	24.40	6.321e2	8.679e2	0.72	NO	8.49101	0.49101
7 Total Tetra-Dioxins	24.82	2.269e2	2.643e2	0.86	NO	8.15912	0.15912
8 Total Tetra-Dioxins	24.90	2.421e2	3.108e2	0.71	NO	8.13813	0.00000
9 Total Tetra-Dioxins	24.99	3.218e2	3.123e2	1.03	YES	8.17968	0.00000
10 Total Tetra-Dioxins	25.75	1.314e3	1.830e3	0.72	NO	8.10191	1.0191
11 2,3,7,8-TCDD	26.07	8.732e2	1.191e3	0.57	YES	8.50118	0.00000
12 Total Tetra-Dioxins	26.76	2.318e2	2.980e2	0.78	NO	8.17160	0.17160



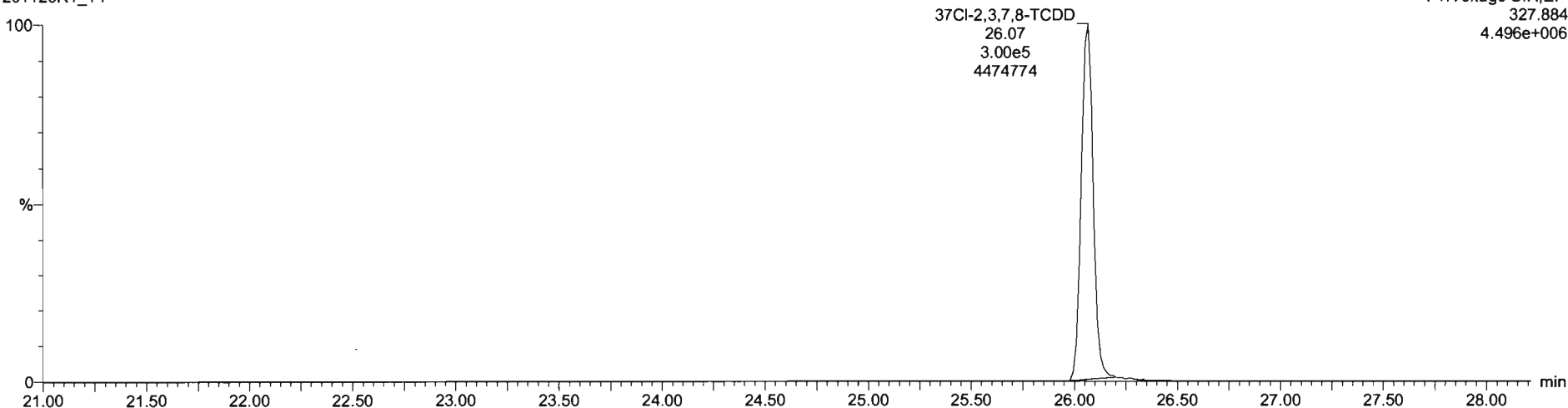
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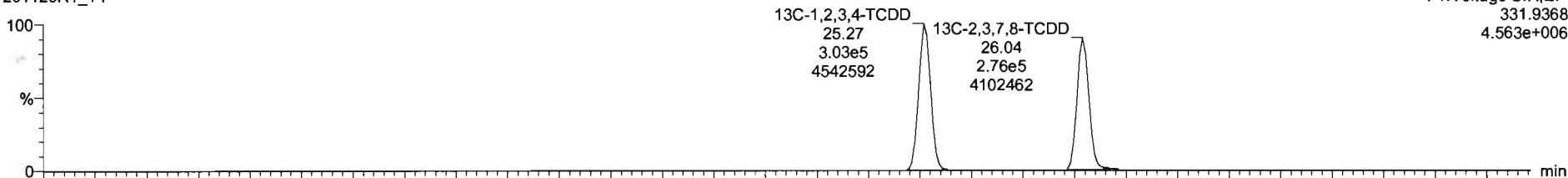
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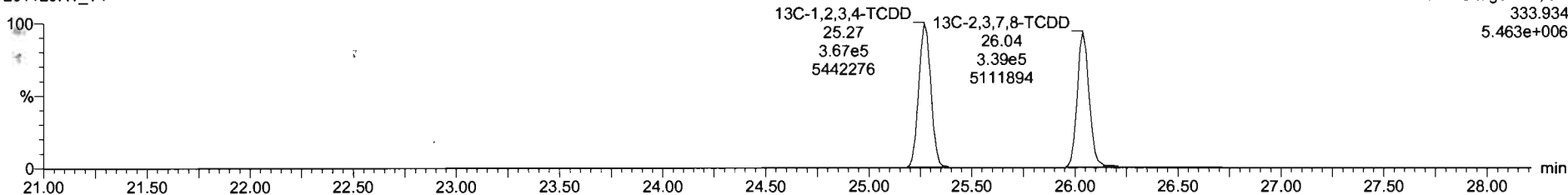


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201126R1_14

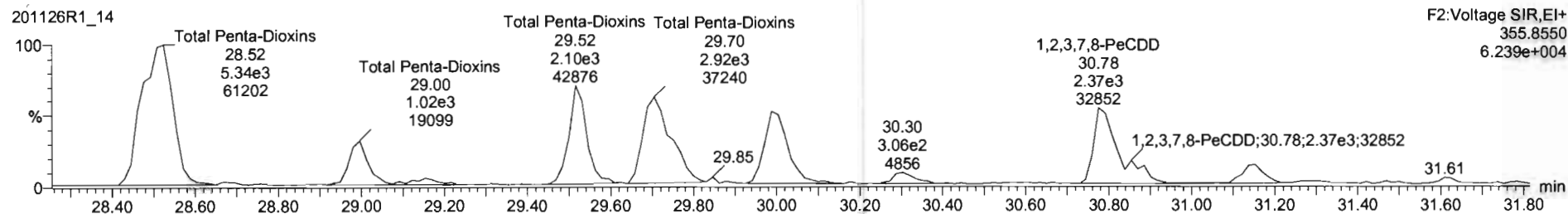
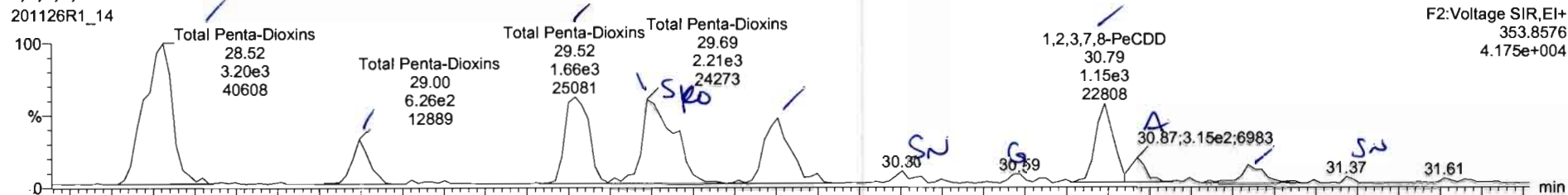


Dataset: Untitled

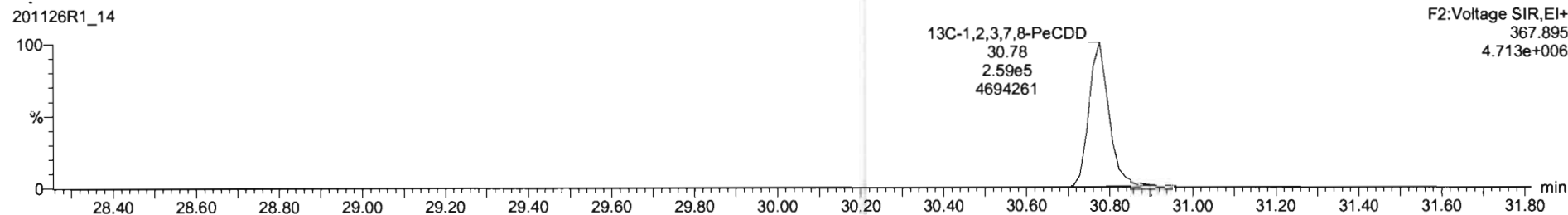
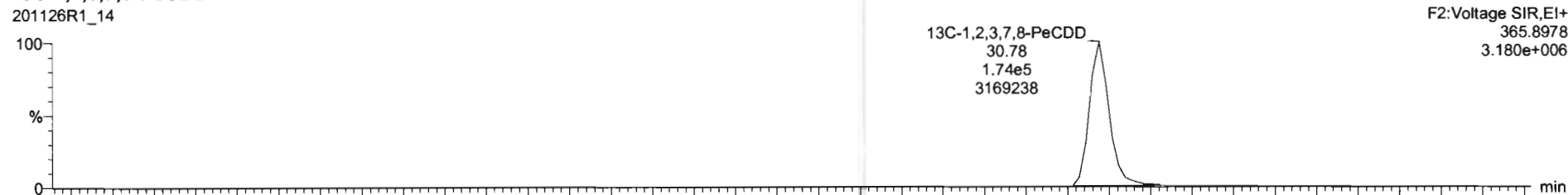
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

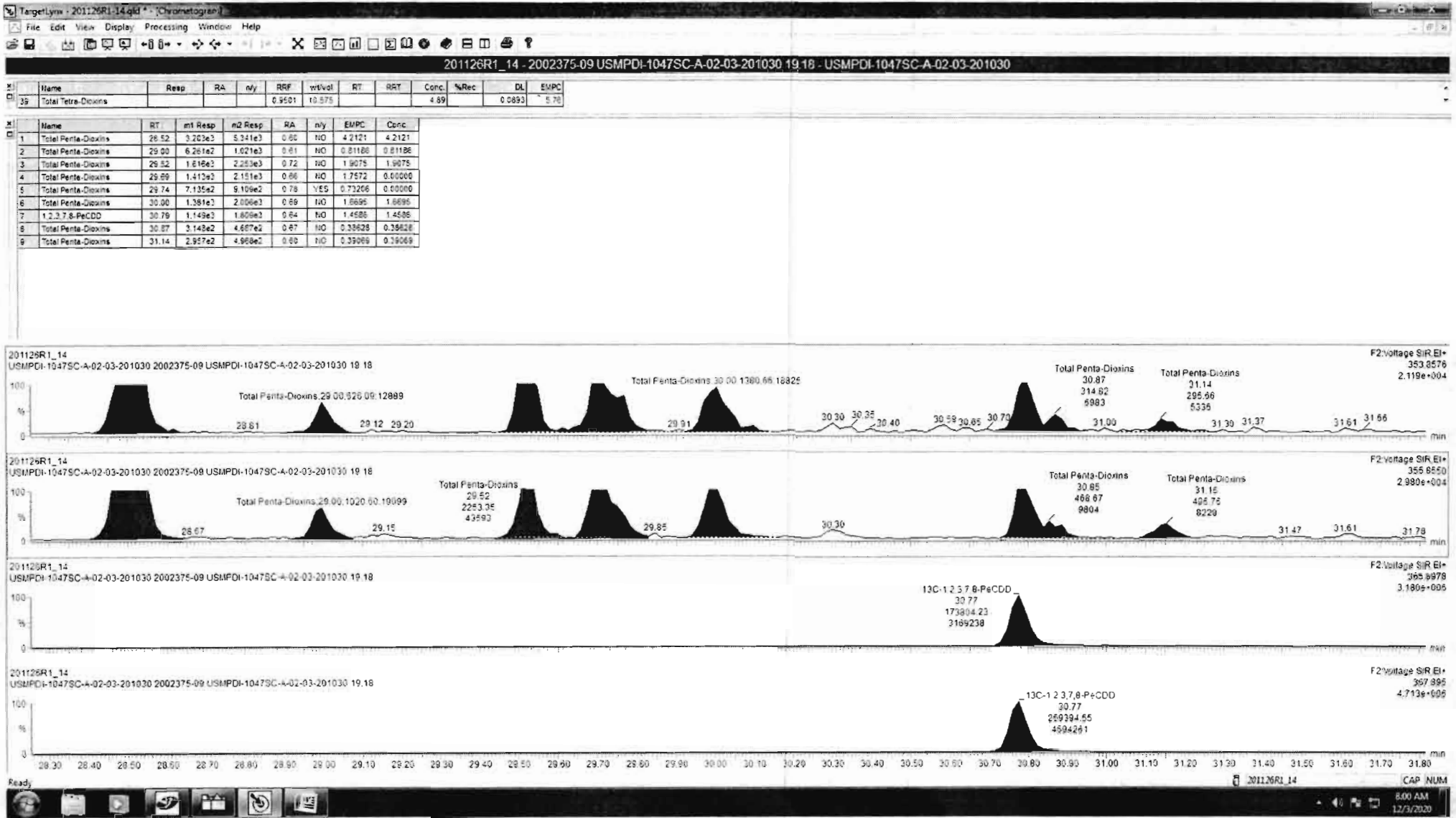
Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030

1,2,3,7,8-PeCDD



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





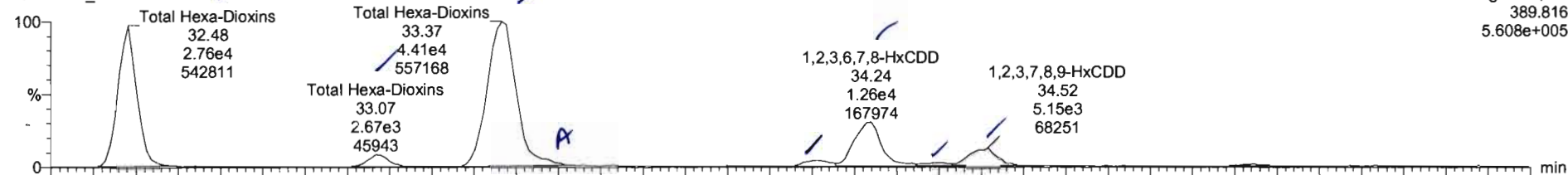
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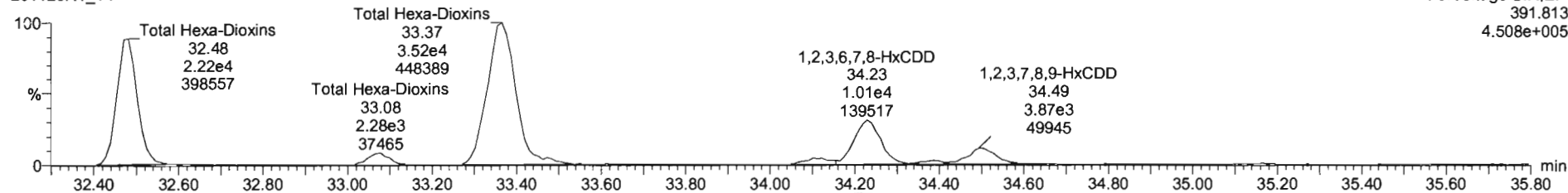
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1,2,3,4,7,8-HxCDD

201126R1_14

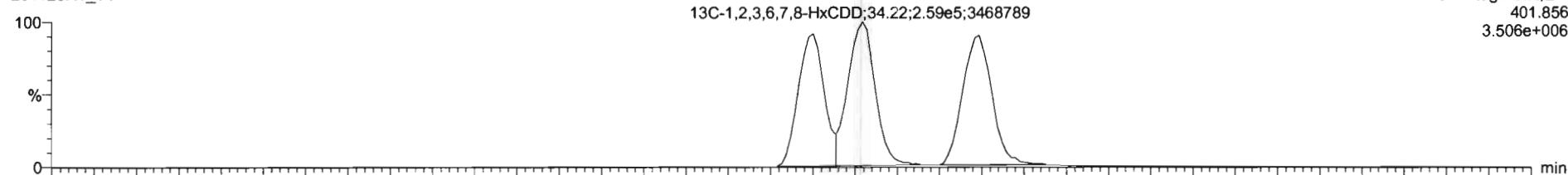


201126R1_14

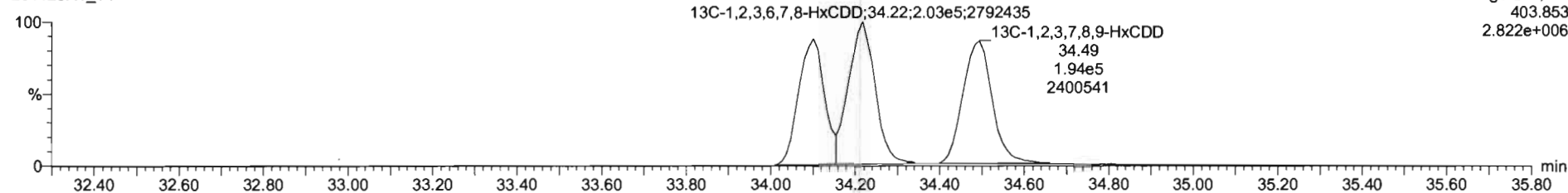


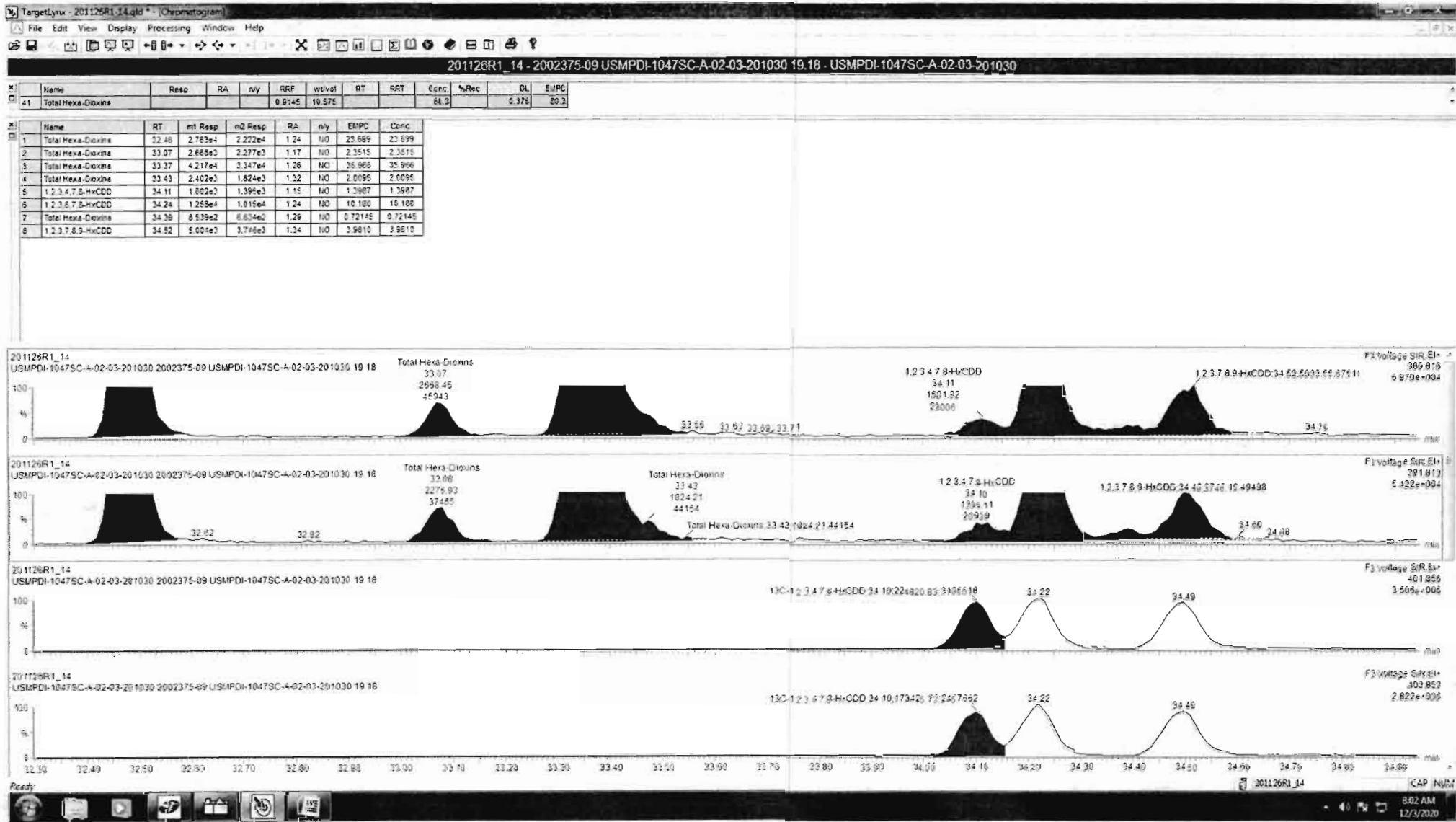
13C-1,2,3,4,7,8-HxCDD

201126R1_14



201126R1_14





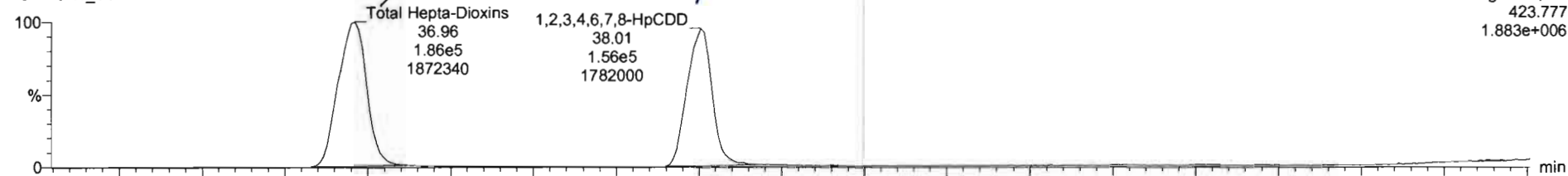
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

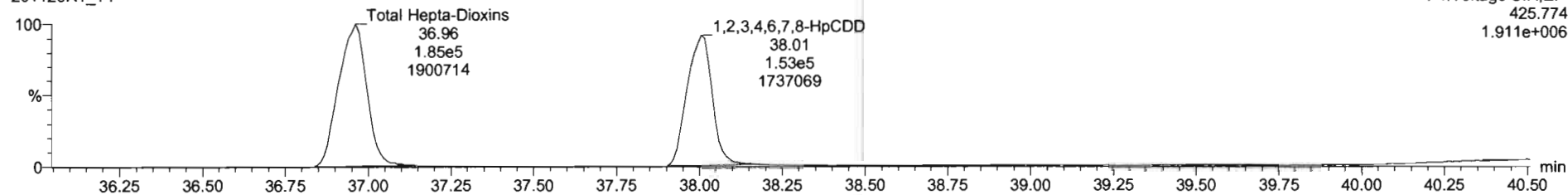
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1,2,3,4,6,7,8-HpCDD

201126R1_14

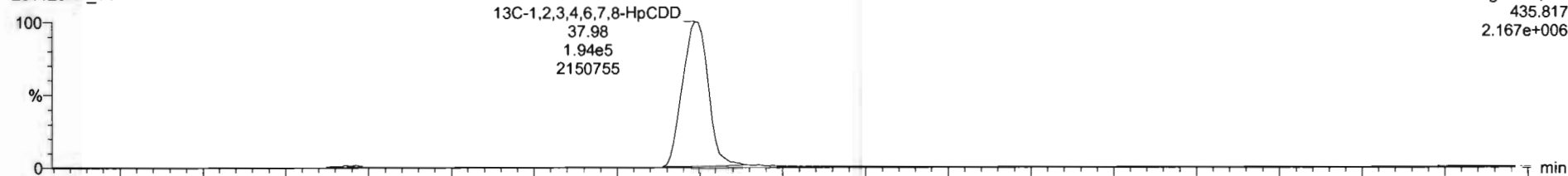


201126R1_14

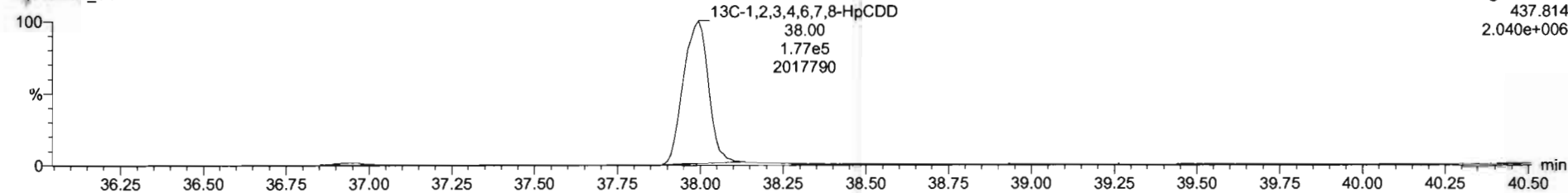


13C-1,2,3,4,6,7,8-HpCDD

201126R1_14



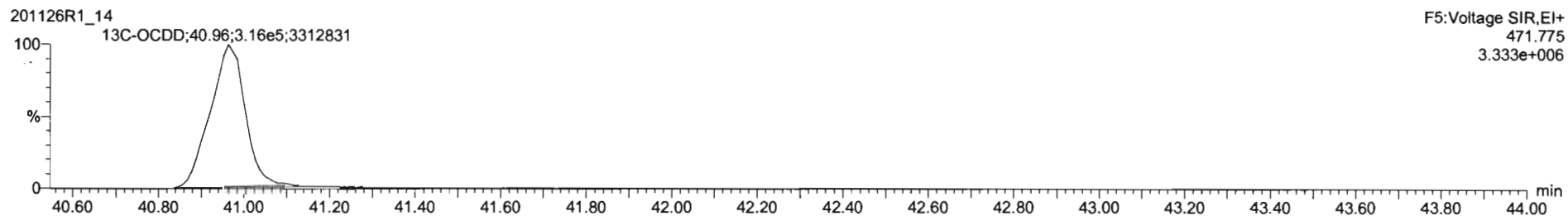
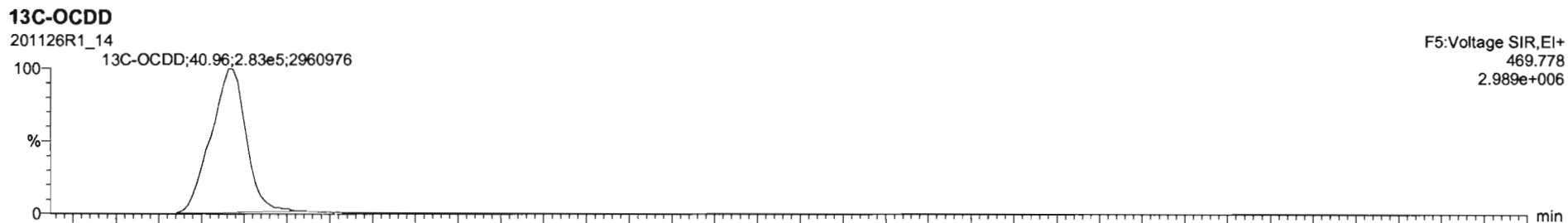
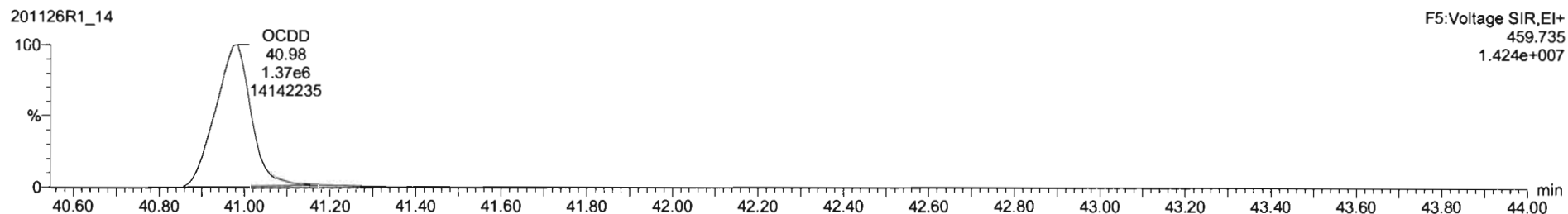
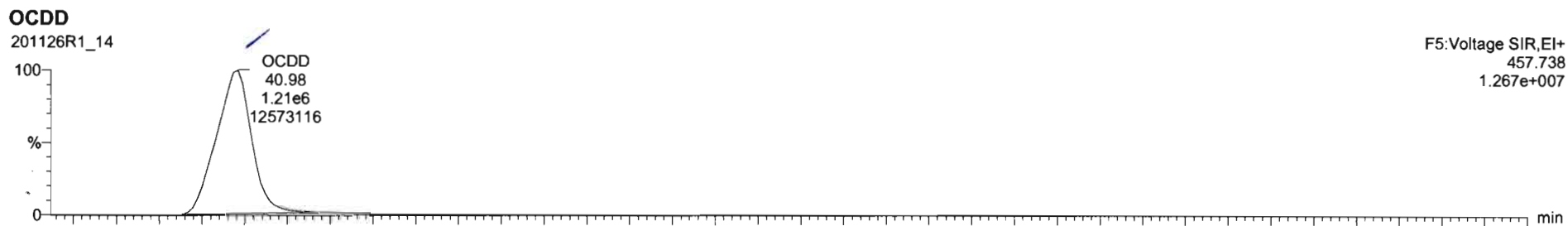
201126R1_14



Dataset: Untitled

Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

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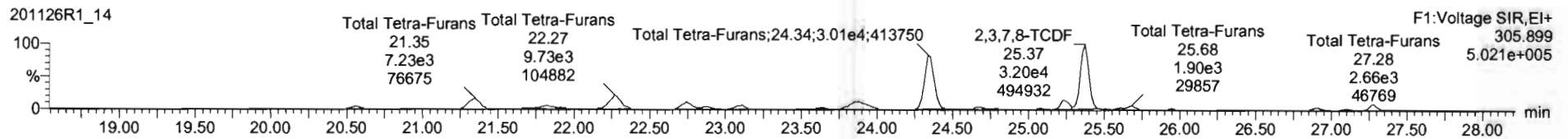
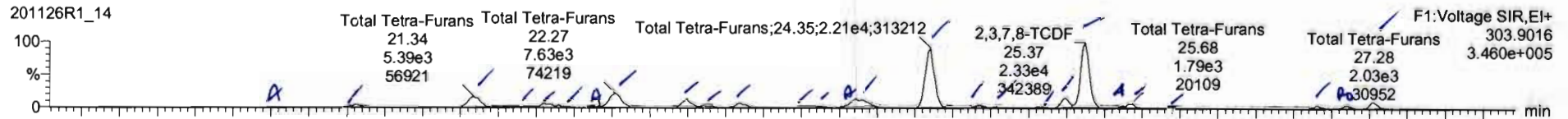


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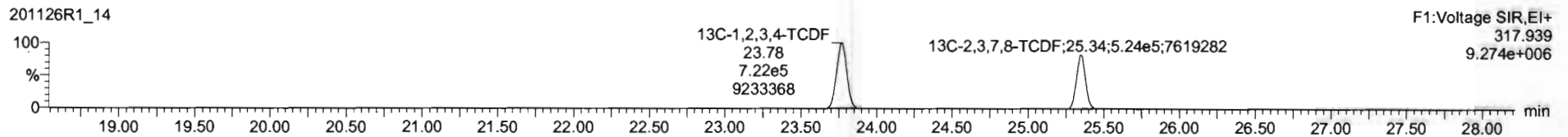
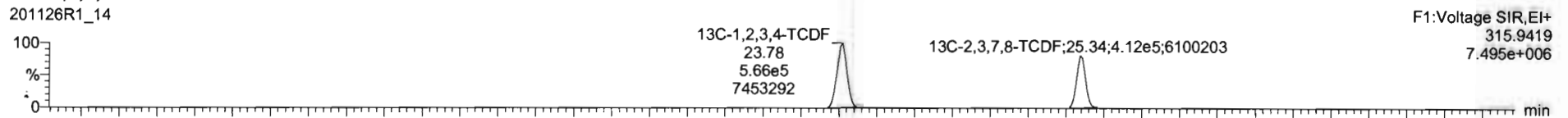
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

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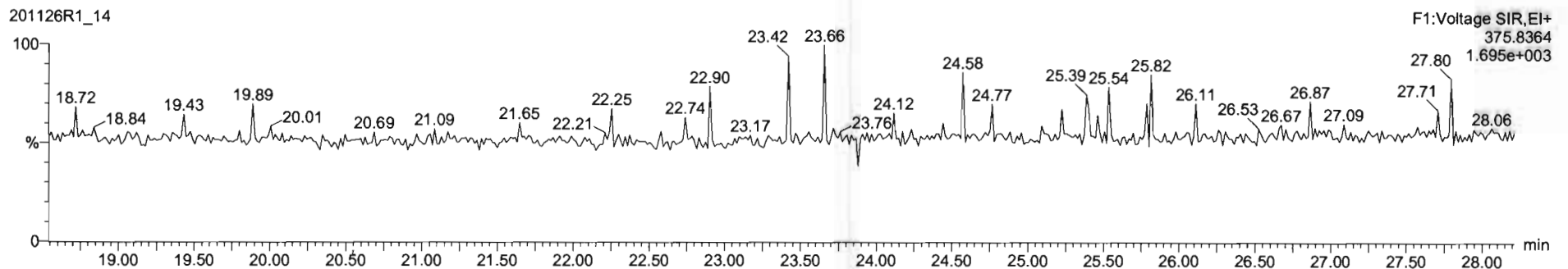
2,3,7,8-TCDF

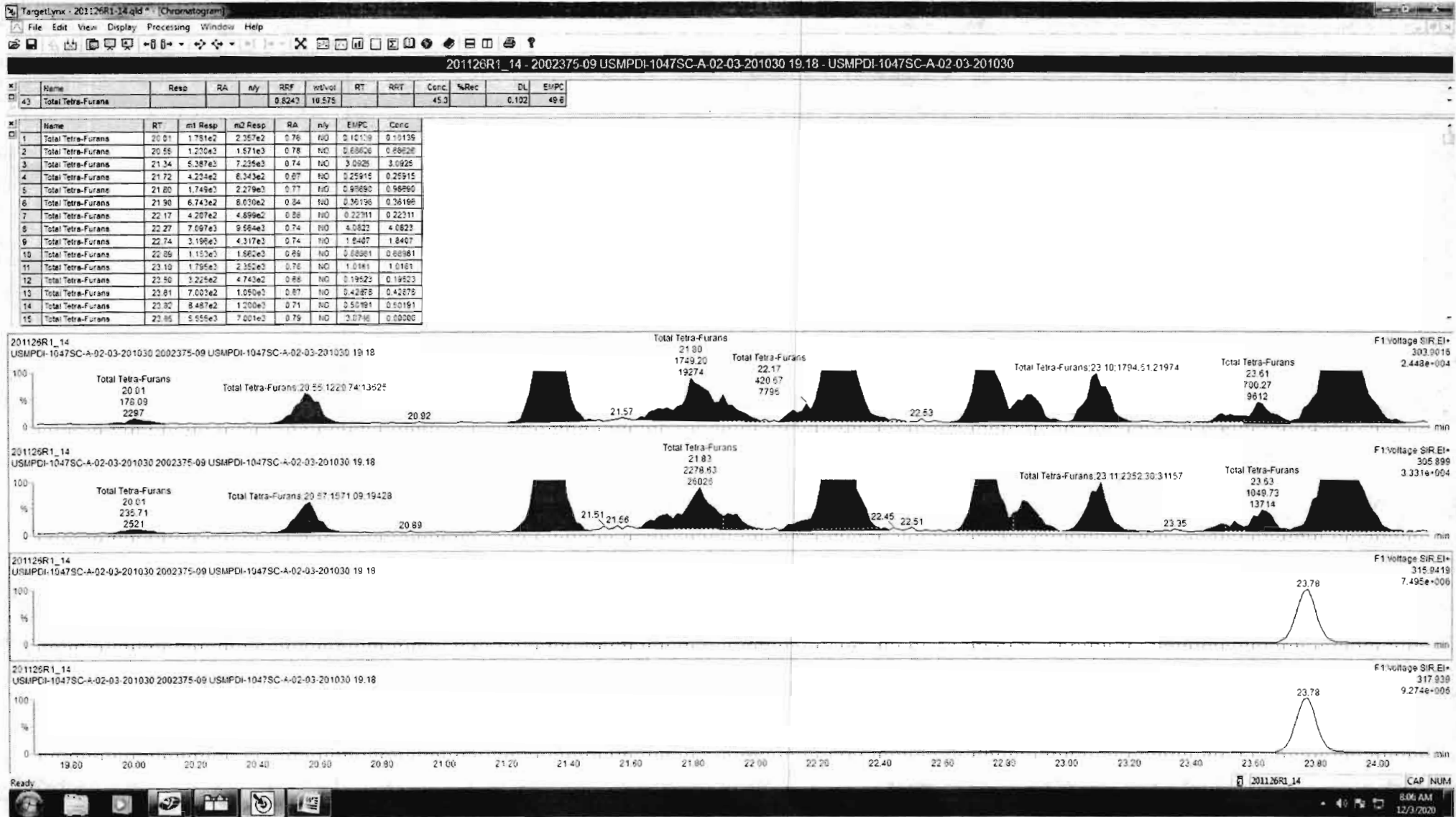


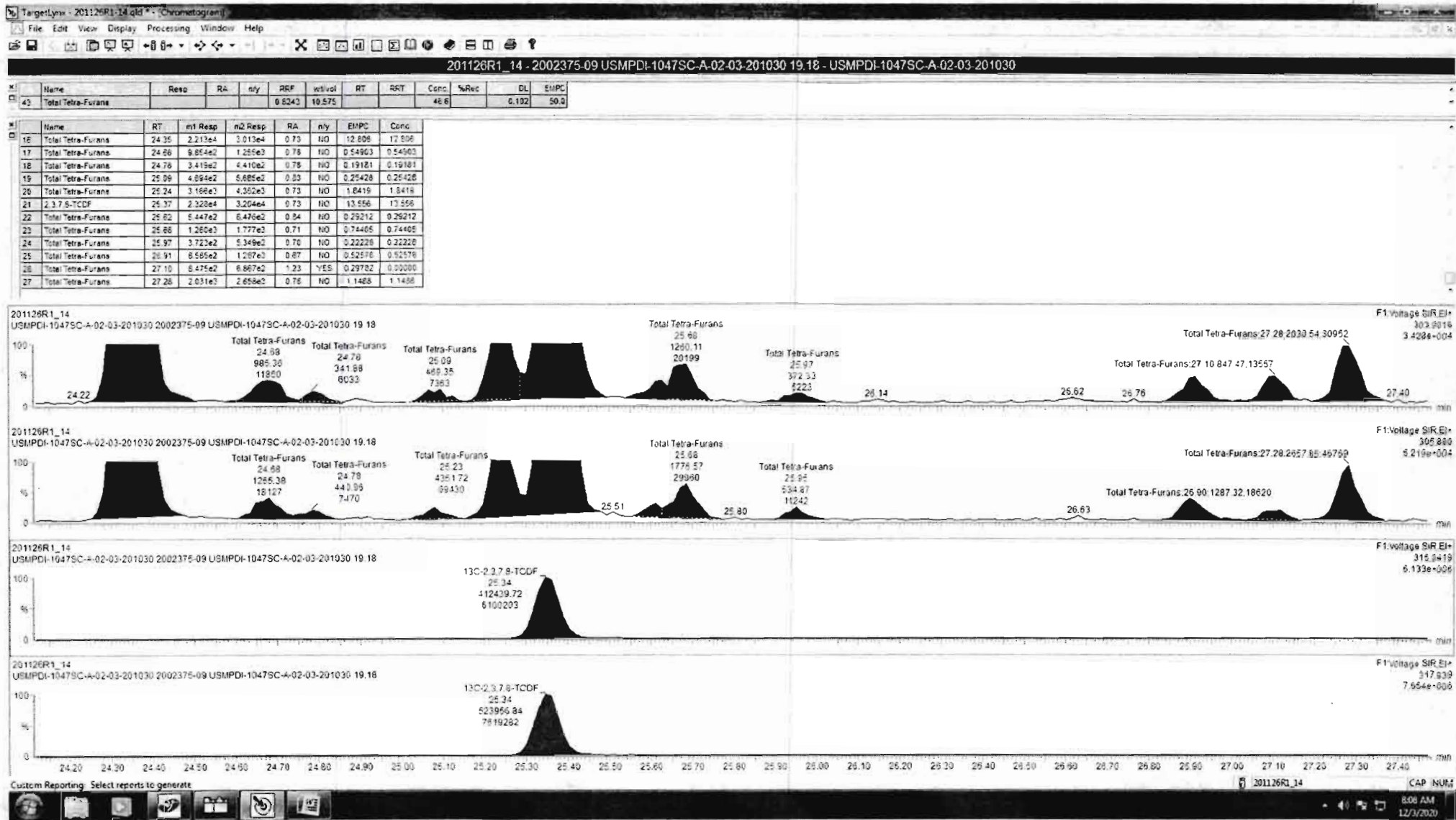
13C-2,3,7,8-TCDF



DPE1







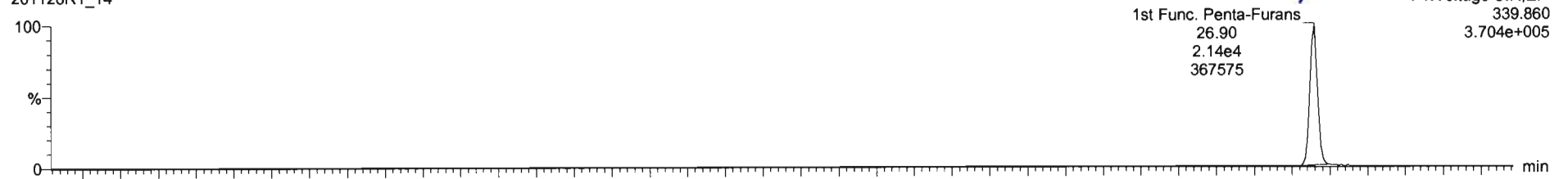
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Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

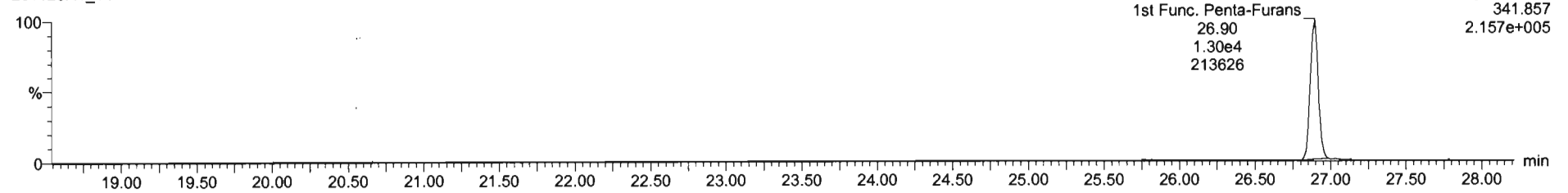
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1st Func. Penta-Furans

201126R1_14

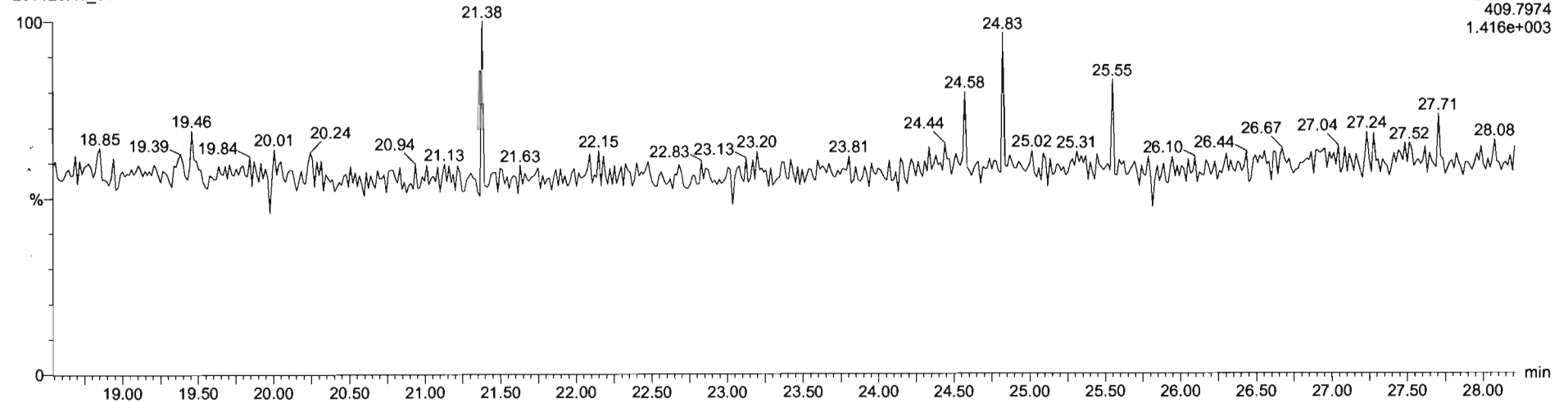


201126R1_14



DPE6

201126R1_14

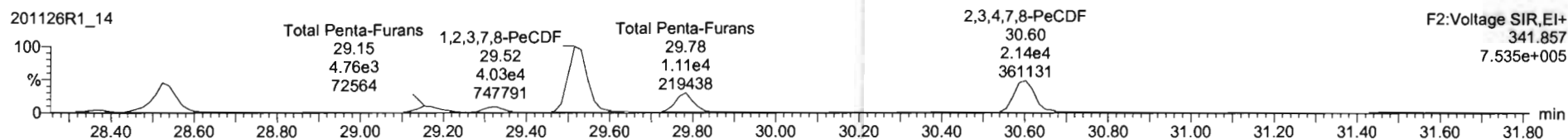


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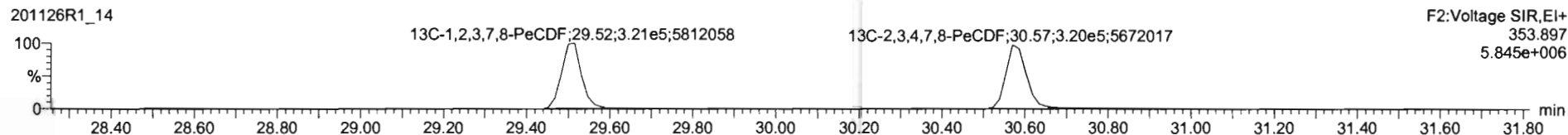
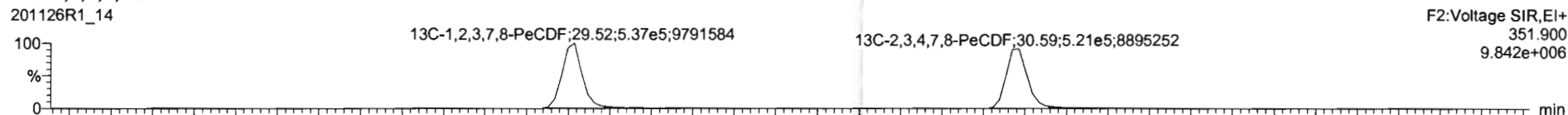
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030

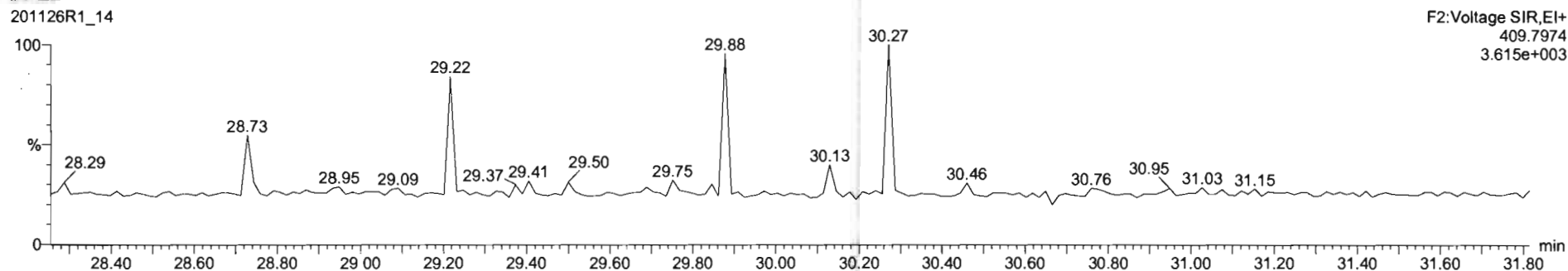
1,2,3,7,8-PeCDF

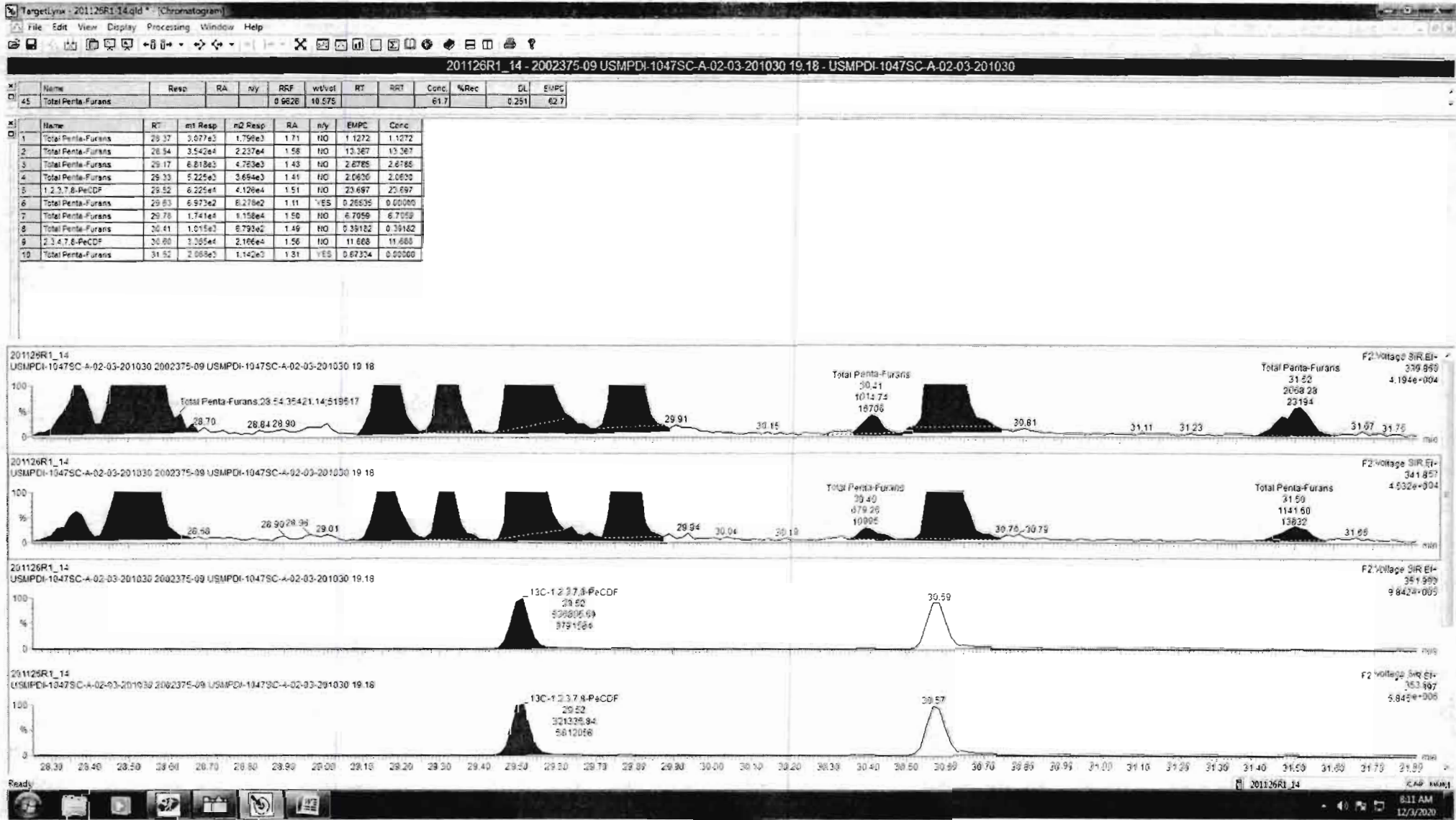


13C-1,2,3,7,8-PeCDF



DPE2





Dataset: Untitled

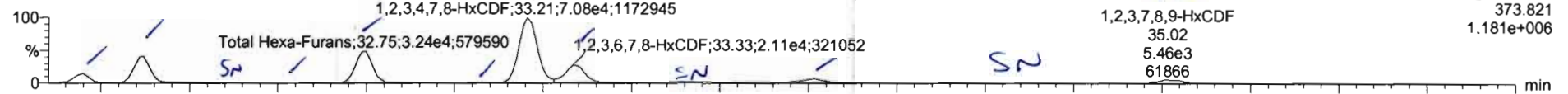
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Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

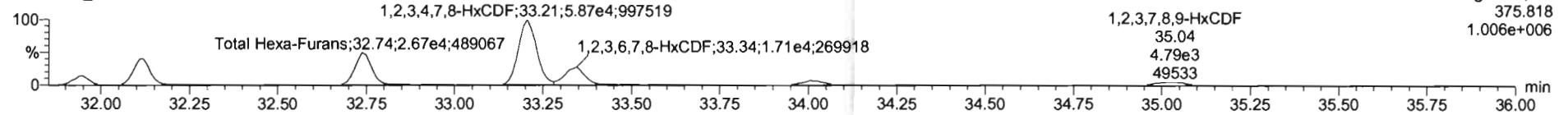
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1,2,3,4,7,8-HxCDF

201126R1_14

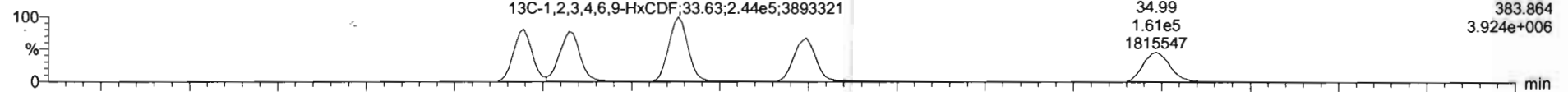


201126R1_14

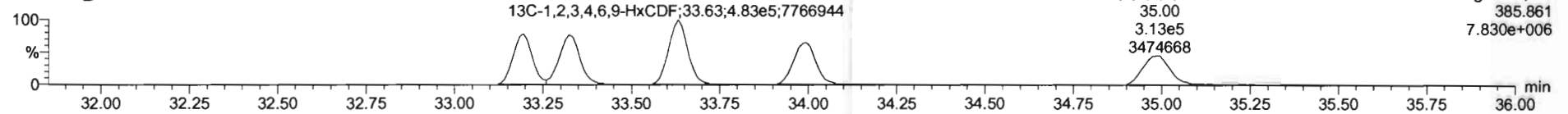


13C-1,2,3,4,7,8-HxCDF

201126R1_14

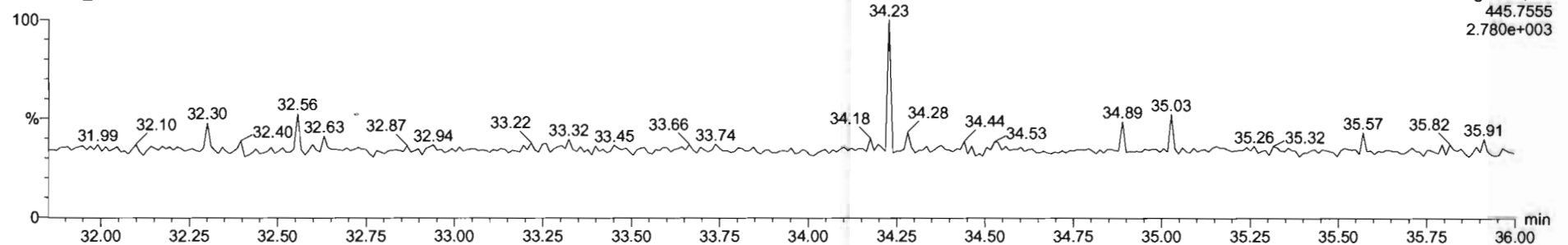


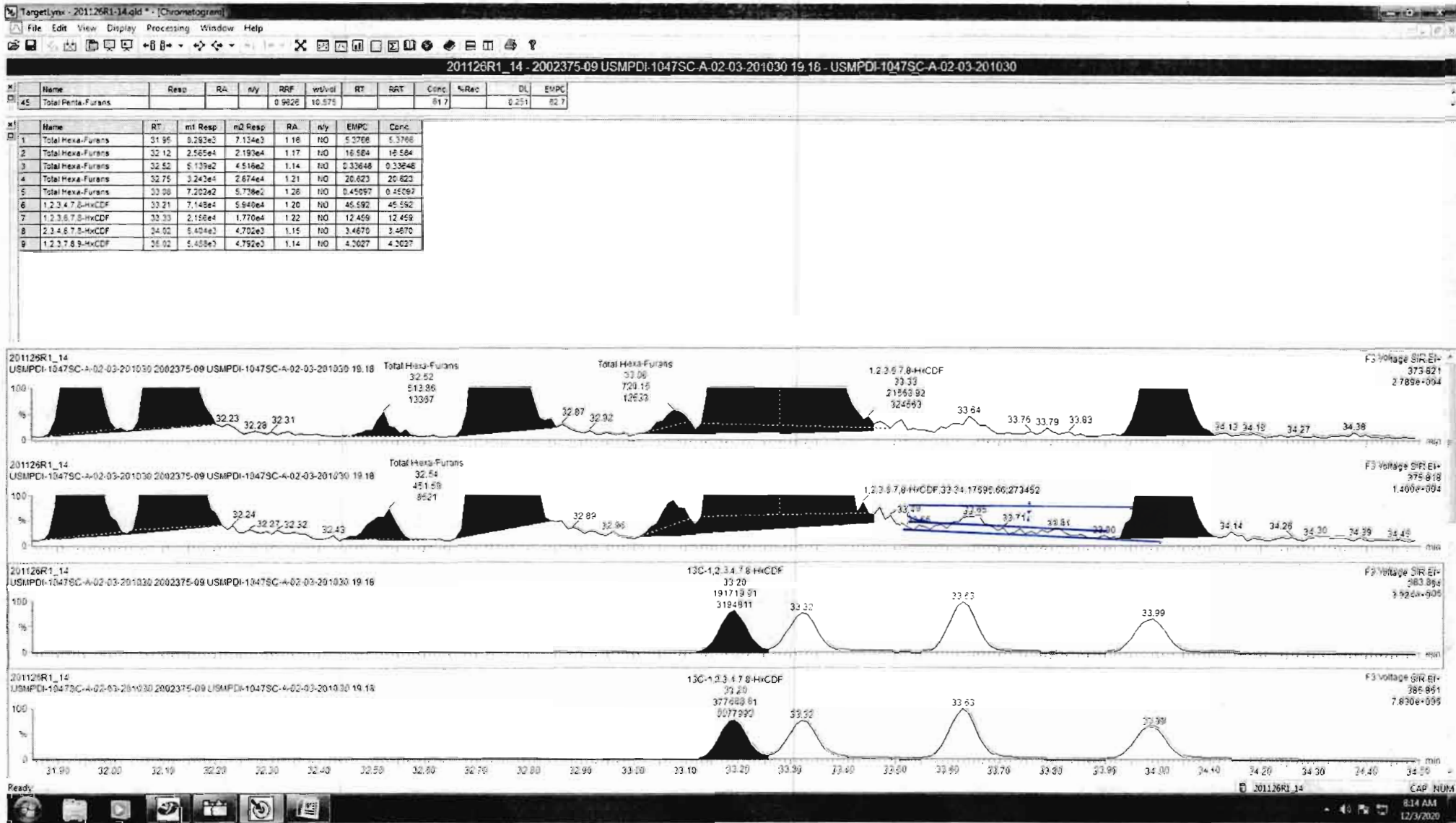
201126R1_14



DPE3

201126R1_14





Name	Resp	RA	nly	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.9628	10.575			61.7		0.251	52.7

Name	RT	mt Resp	n2 Resp	RA	nly	EMPC	Conc.
1	Total Hexa-Furans	31.95	8.293e3	7.134e3	1.18	NO	5.3766
2	Total Hexa-Furans	32.12	2.555e4	2.193e4	1.17	NO	16.584
3	Total Hexa-Furans	32.52	6.139e2	4.516e2	1.14	NO	0.33848
4	Total Hexa-Furans	32.75	3.242e4	2.674e4	1.21	NO	20.623
5	Total Hexa-Furans	33.08	7.202e2	5.738e2	1.26	NO	0.45097
6	1,2,3,4,7,8-HxCDF	33.21	7.148e4	5.940e4	1.26	NO	45.592
7	1,2,3,6,7,8-HxCDF	33.33	2.150e4	1.770e4	1.22	NO	12.459
8	2,3,4,6,7,8-HxCDF	34.02	5.404e3	4.702e3	1.15	NO	3.4870
9	1,2,3,7,8,9-HxCDF	35.02	2.885e3	2.572e3	1.12	NO	2.2905
10	Total Hexa-Furans	35.04	2.575e3	2.217e3	1.16	NO	1.8701



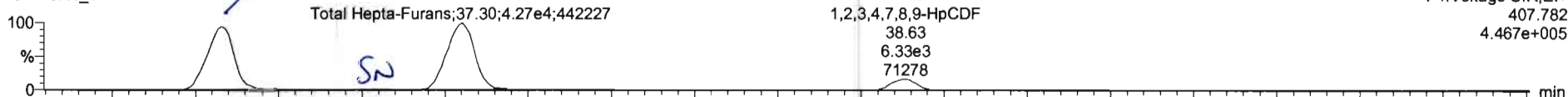
Dataset: Untitled

Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

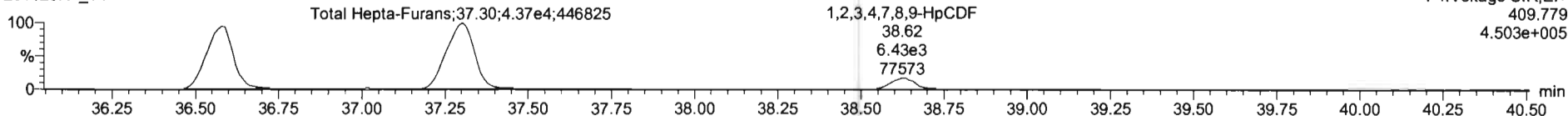
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1,2,3,4,6,7,8-HpCDF

201126R1_14

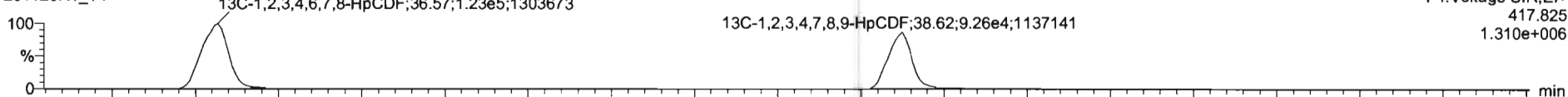


201126R1_14

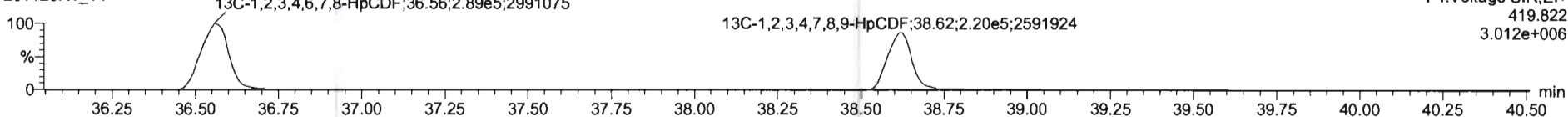


¹³C-1,2,3,4,6,7,8-HpCDF

201126R1_14

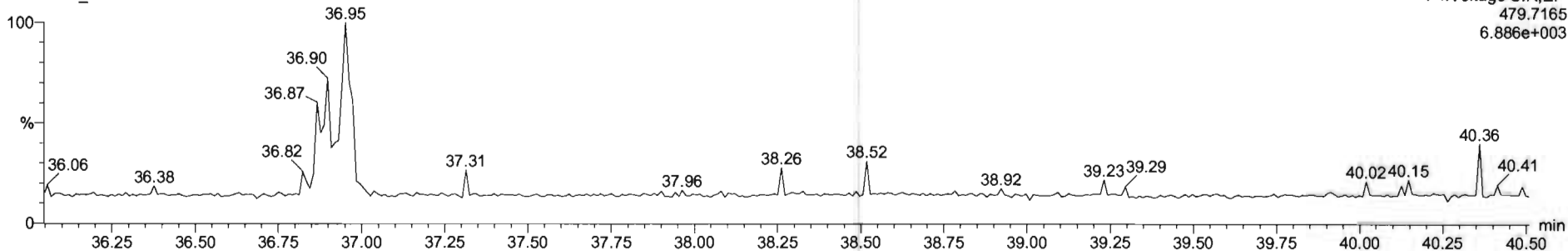


201126R1_14



D,PE4

201126R1_14



#	Name	Resp	RA	n/y	RF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
47	Total Hepta-Furans				0.6906	10.575			67.7		0.322	87.7

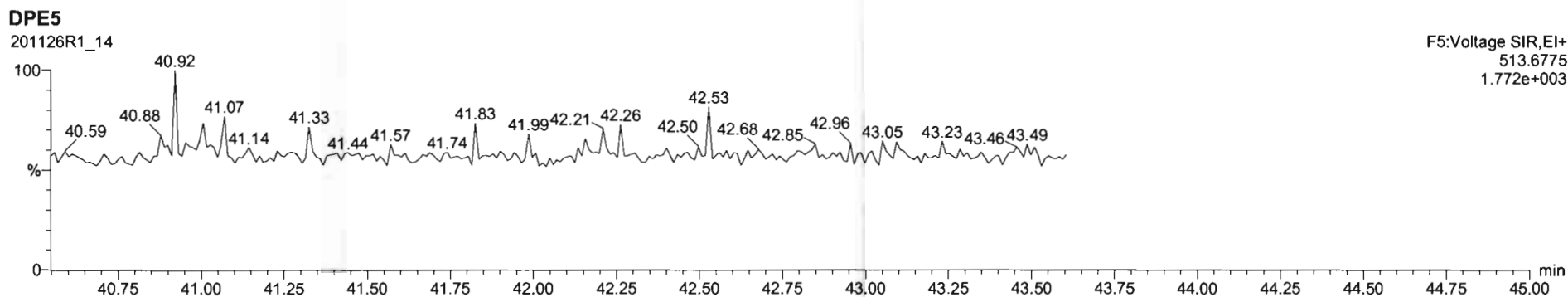
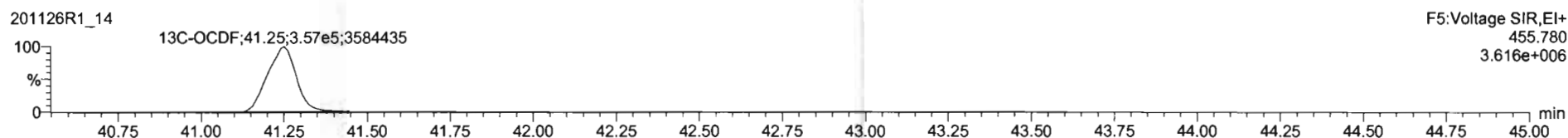
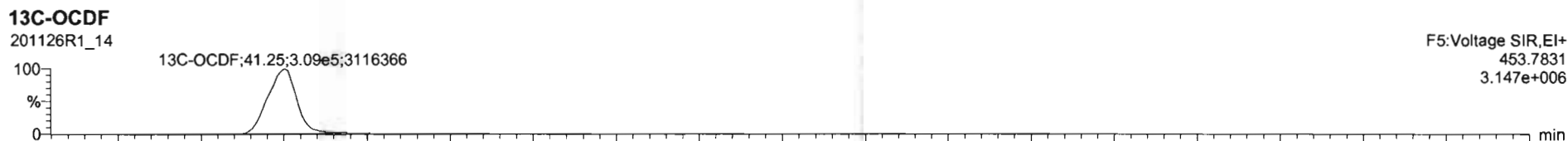
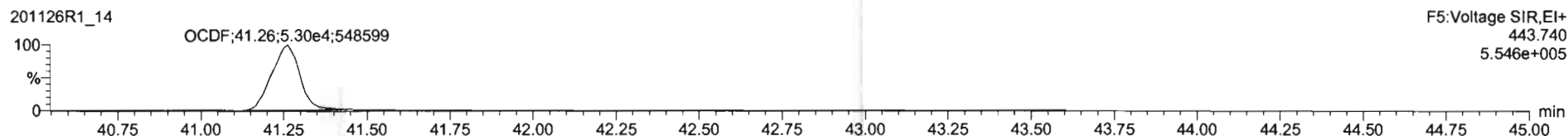
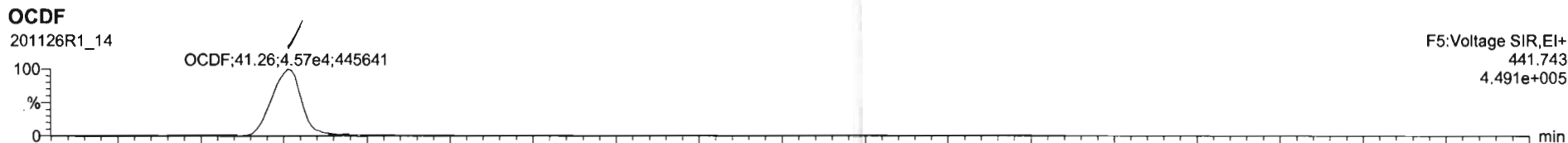
#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	36.56	3.856e4	3.954e4	0.96	NO	36.669	36.659
2	Total Hepta-Furans	37.30	4.272e4	4.368e4	0.96	NO	45.121	45.121
3	1,2,3,4,7,8-HpCDF	38.23	6.116e3	6.434e3	0.95	NO	6.7517	6.7517



Dataset: Untitled

Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

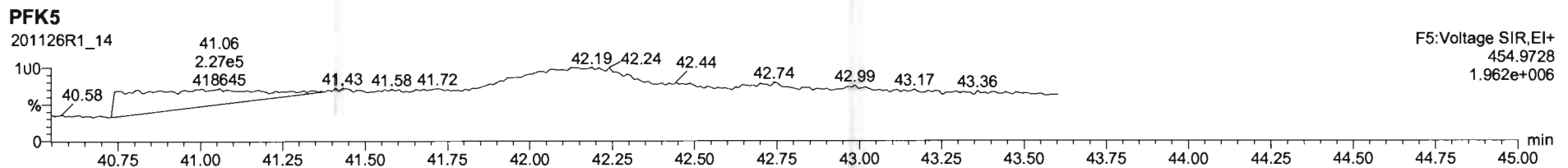
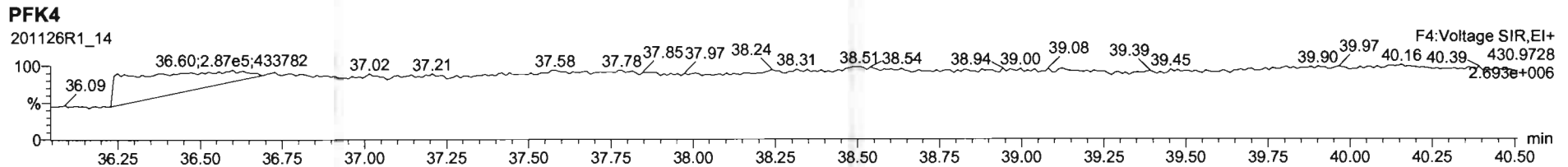
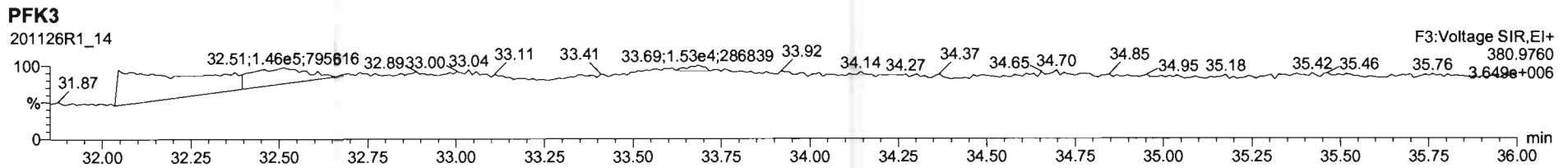
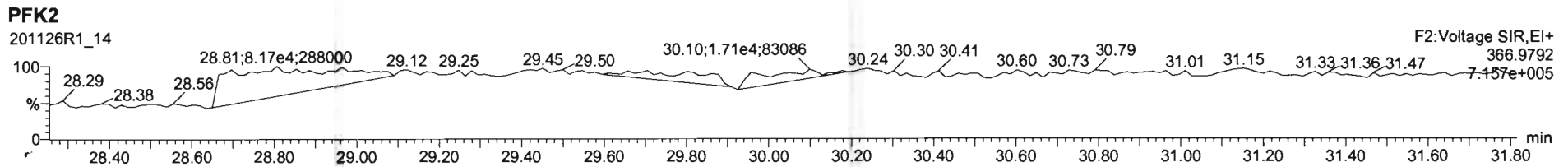
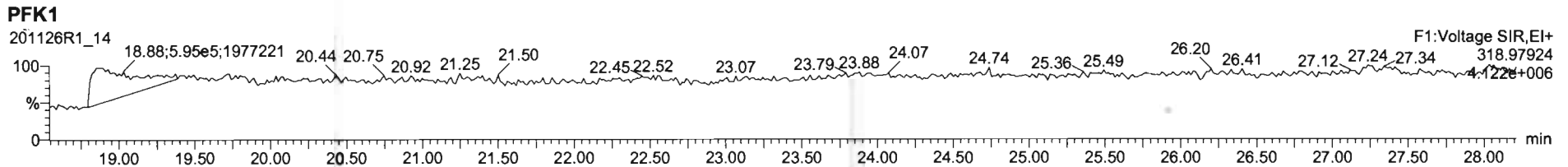
Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030



Dataset: Untitled

Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time
Printed: Friday, November 27, 2020 10:27:11 Pacific Standard Time

Name: 201126R1_14, Date: 26-Nov-2020, Time: 18:20:01, ID: 2002375-09 USMPDI-1047SC-A-02-03-201030 19.18, Description: USMPDI-1047SC-A-02-03-201030



CONTINUING CALIBRATION

PKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201125R1-2

Reviewed By: HN 12/01/2020

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input 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>GPB</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Bottle position verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Mass resolution \geq

5k 6-8K 8K 10K

1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

(A) END RES CHECK FAILED TO PRINT AT END OF 201125R1 SEQUENCE
END RES CHECK PROCESSED MANUALLY THE NEXT MORNING.

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-2.qld

Last Altered: Wednesday, November 25, 2020 10:54:11 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:14:42 Pacific Standard Time

*GRB 11/26/2020
HIV R/01/2020*

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	5.56e4	4.70e5	0.79	NO	0.950	26.10	26.08	NO	1.001	1.001	12.453	125	NO
2	2 1,2,3,7,8-PeCDD	1.70e5	3.06e5	0.63	NO	0.885	30.80	30.81	NO	1.000	1.000	62.893	126	NO
3	3 1,2,3,4,7,8-HxCDD	1.81e5	3.07e5	1.25	NO	1.02	34.12	34.13	NO	1.000	1.001	57.977	116	NO
4	4 1,2,3,6,7,8-HxCDD	1.81e5	3.55e5	1.26	NO	0.915	34.24	34.25	NO	1.000	1.001	55.867	112	NO
5	5 1,2,3,7,8,9-HxCDD	1.79e5	3.41e5	1.25	NO	0.934	34.52	34.52	NO	1.000	1.000	56.327	113	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.39e5	2.91e5	1.00	NO	0.870	37.99	38.01	NO	1.000	1.000	54.739	109	NO
7	7 OCDD	2.22e5	4.57e5	0.92	NO	0.872	40.94	40.95	NO	1.000	1.000	111.63	112	NO
8	8 2,3,7,8-TCDF	7.01e4	8.66e5	0.75	NO	0.824	25.38	25.40	NO	1.000	1.001	9.8289	98.3	NO
9	9 1,2,3,7,8-PeCDF	3.48e5	6.09e5	1.63	NO	0.963	29.54	29.55	NO	1.000	1.000	59.353	119	NO
10	10 2,3,4,7,8-PeCDF	3.61e5	5.83e5	1.58	NO	1.07	30.60	30.60	NO	1.000	1.000	58.072	116	NO
11	11 1,2,3,4,7,8-HxCDF	2.20e5	4.63e5	1.21	NO	0.953	33.21	33.23	NO	1.000	1.001	49.831	99.7	NO
12	12 1,2,3,6,7,8-HxCDF	2.39e5	4.86e5	1.20	NO	1.01	33.35	33.35	NO	1.000	1.000	48.708	97.4	NO
13	13 2,3,4,6,7,8-HxCDF	2.20e5	4.50e5	1.24	NO	0.991	34.01	34.01	NO	1.000	1.000	49.278	98.6	NO
14	14 1,2,3,7,8,9-HxCDF	1.79e5	3.89e5	1.22	NO	0.951	35.01	35.02	NO	1.000	1.000	48.403	96.8	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.66e5	3.44e5	1.00	NO	0.999	36.58	36.59	NO	1.000	1.000	48.281	96.6	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.29e5	2.40e5	0.99	NO	1.12	38.62	38.63	NO	1.000	1.000	48.068	96.1	NO
17	17 OCDF	2.47e5	5.69e5	0.87	NO	0.868	41.24	41.24	NO	1.000	1.000	100.03	100	NO
18	18 13C-2,3,7,8-TCDD	4.70e5	4.14e5	0.82	NO	1.11	26.06	26.07	NO	1.030	1.030	102.28	102	NO
19	19 13C-1,2,3,7,8-PeCDD	3.06e5	4.14e5	0.65	NO	0.859	30.77	30.79	NO	1.216	1.217	86.054	86.1	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.07e5	4.88e5	1.36	NO	0.700	34.11	34.11	NO	1.014	1.014	89.973	90.0	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.55e5	4.88e5	1.29	NO	0.833	34.25	34.23	NO	1.018	1.017	87.404	87.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.41e5	4.88e5	1.29	NO	0.762	34.49	34.51	NO	1.025	1.026	91.766	91.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.91e5	4.88e5	1.08	NO	0.650	37.97	37.99	NO	1.129	1.129	91.978	92.0	NO
24	24 13C-OCDD	4.57e5	4.88e5	0.90	NO	0.539	40.94	40.94	NO	1.217	1.217	173.53	86.8	NO
25	25 13C-2,3,7,8-TCDF	8.66e5	8.56e5	0.80	NO	0.981	25.38	25.37	NO	1.003	1.003	103.08	103	NO
26	26 13C-1,2,3,7,8-PeCDF	6.09e5	8.56e5	1.65	NO	0.792	29.51	29.53	NO	1.166	1.167	89.855	89.9	NO
27	27 13C-2,3,4,7,8-PeCDF	5.83e5	8.56e5	1.65	NO	0.778	30.56	30.60	NO	1.208	1.210	87.548	87.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.63e5	4.88e5	0.50	NO	0.954	33.20	33.21	NO	0.987	0.987	99.608	99.6	NO
29	29 13C-1,2,3,6,7,8-HxCDF	4.86e5	4.88e5	0.51	NO	1.01	33.33	33.35	NO	0.991	0.991	99.074	99.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.50e5	4.88e5	0.51	NO	0.921	34.00	34.01	NO	1.011	1.011	100.11	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	3.89e5	4.88e5	0.50	NO	0.803	35.00	35.01	NO	1.040	1.041	99.350	99.3	NO

Dataset: U:\VG12.PRO\Results\201125R1\201125R1-2.qld

Last Altered: Wednesday, November 25, 2020 10:54:11 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:14:42 Pacific Standard Time

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# 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	3.44e5	4.88e5	0.43	NO	0.735	36.57	36.58	NO	1.087	1.087	95.880	95.9	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.40e5	4.88e5	0.41	NO	0.568	38.60	38.62	NO	1.147	1.148	86.576	86.6	NO
34	34 13C-OCDF	5.69e5	4.88e5	0.89	NO	0.629	41.22	41.23	NO	1.225	1.225	185.47	92.7	NO
35	35 37Cl-2,3,7,8-TCDD	5.45e4	4.14e5			1.09	26.06	26.08	NO	1.030	1.031	12.094	121	NO
36	36 13C-1,2,3,4-TCDD	4.14e5	4.14e5	0.83	NO	1.00	25.37	25.30	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.56e5	8.56e5	0.82	NO	1.00	23.87	23.79	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.88e5	4.88e5	0.50	NO	1.00	33.71	33.64	NO	1.000	1.000	100.00	100	YES ^{ok}

Dataset: Untitled

Last Altered: Thursday, November 26, 2020 07:23:12 Pacific Standard Time

Printed: Thursday, November 26, 2020 07:23:15 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_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201125R1_1 ^(A)	ST201125R1_1 1613 CS3 20F1105	25-Nov-20	09:12:37
2	201125R1_2 ^(B)	ST201125R1_2 1613 CS3 20F1105	25-Nov-20	10:06:48
3	201125R1_3	TCDF CPSM	25-Nov-20	10:53:09
4	201125R1_4	BOK0172-BS1 OPR 10	25-Nov-20	11:38:02
5	201125R1_5	SOLVENT BLANK	25-Nov-20	12:23:39
6	201125R1_6	BOK0172-BLK1 Method Blank 10	25-Nov-20	13:08:34
7	201125R1_7	2002359-01 NCPDI-015SC-01-02-201028 6.1	25-Nov-20	13:54:02
8	201125R1_8	2002359-02 NCPDI-015SC-02-03-201028 6.65	25-Nov-20	14:38:58
9	201125R1_9	2002359-03 NCPDI-015SC-03-04-201028 6.12	25-Nov-20	15:23:53
10	201125R1_10	2002359-04 NCPDI-015SC-04-05-201028 6.04	25-Nov-20	16:08:46
11	201125R1_11	BOK0129-DUP1 Duplicate 6.19	25-Nov-20	16:53:39
12	201125R1_12	2002359-05 NCPDI-015SC-05-06-201028 6.38	25-Nov-20	17:38:28
13	201125R1_13	2002359-06 NCPDI-015SC-06-07-201028 8.09	25-Nov-20	18:23:21
14	201125R1_14	2002359-07 NCPDI-015SC-07-08-201028 7.57	25-Nov-20	19:08:13
15	201125R1_15	2002359-08 NCPDI-015SC-08-09-201028 7.02	25-Nov-20	19:53:03
16	201125R1_16	2002359-09 NCPDI-1015SC-07-08-201028 7.36	25-Nov-20	20:37:54

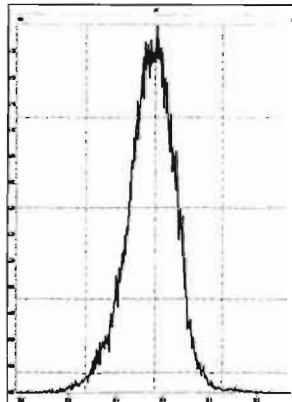
(A) USED TO ADJUST WINDOWS

(B) USED AS CAL FOR RUN

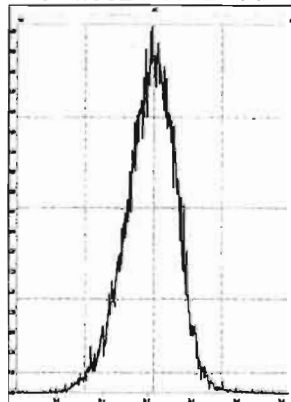
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:03:58 Pacific Standard Time

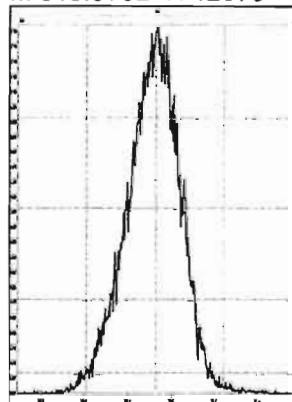
M 292.9824 R 11797



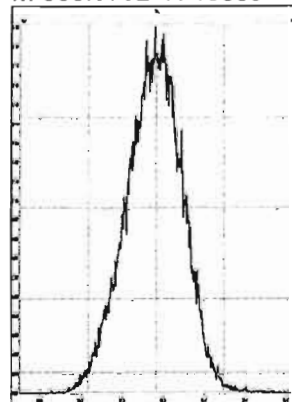
M 304.9824 R 12014



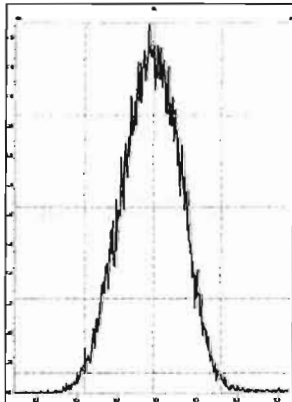
M 318.9792 R 12075



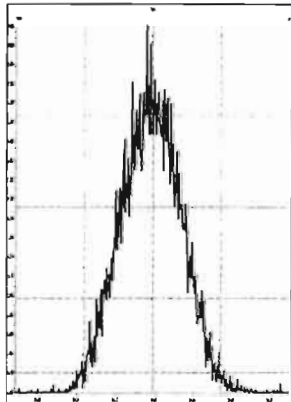
M 330.9792 R 10639



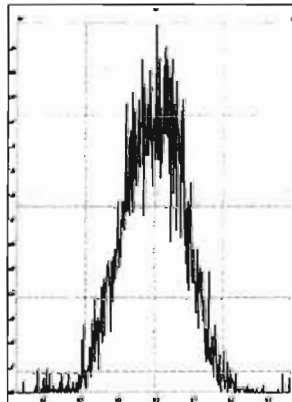
M 342.9792 R 10038



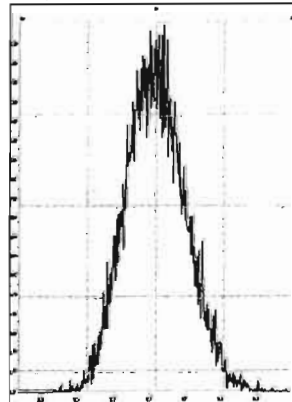
M 354.9792 R 10865



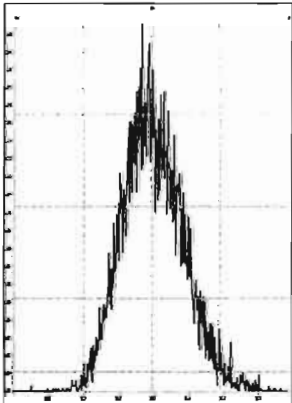
M 366.9792 R 10506



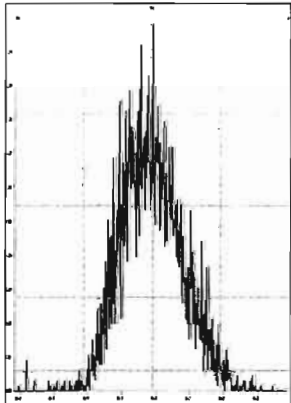
M 380.9760 R 10162



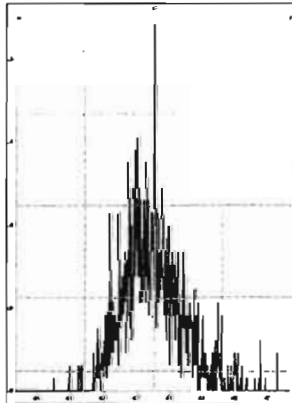
M 392.9760 R 10967



M 404.9760 R 11363



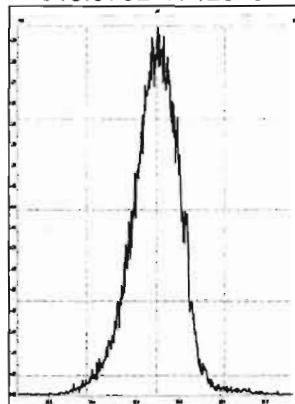
M 416.9760 R 12256



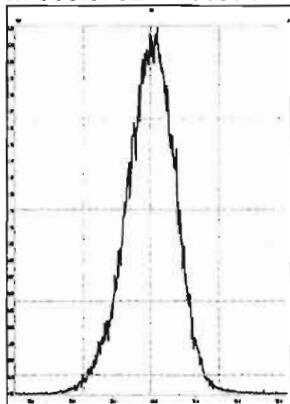
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:04:39 Pacific Standard Time

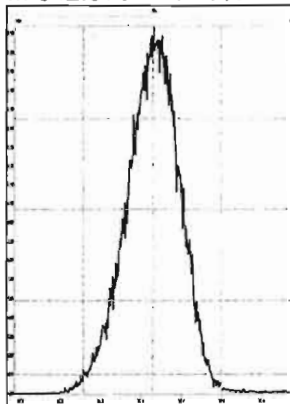
M 318.9792 R 12626



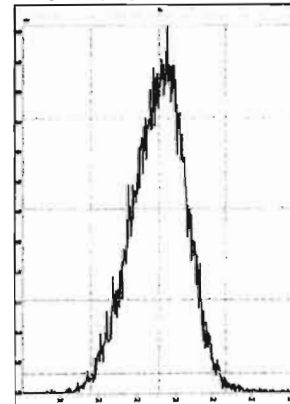
M 330.9792 R 11571



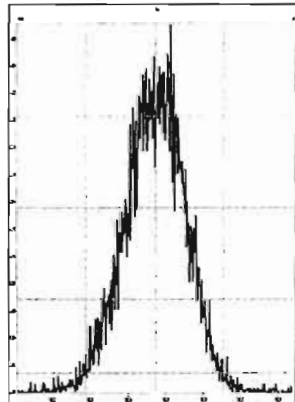
M 342.9792 R 11160



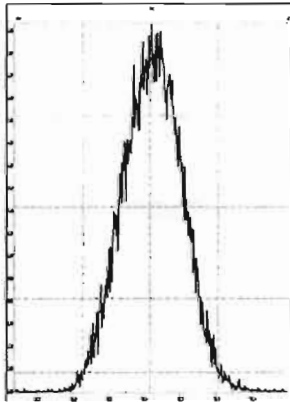
M 354.9792 R 10824



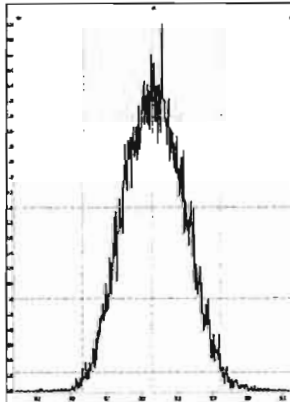
M 366.9792 R 10080



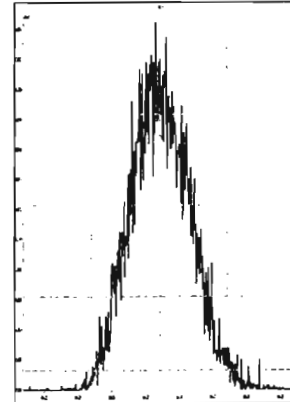
M 380.9760 R 10078



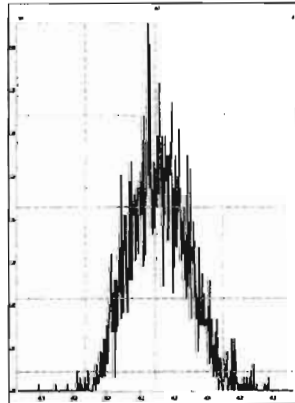
M 392.9760 R 10416



M 404.9760 R 10327



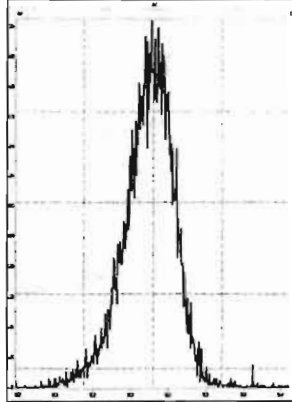
M 416.9760 R 11573



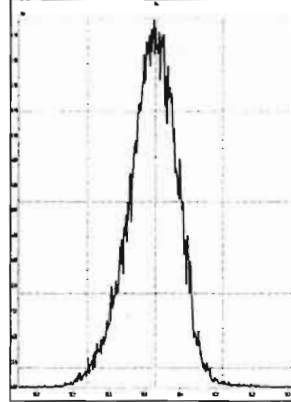
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Printed: Wednesday, November 25, 2020 10:05:02 Pacific Standard Time

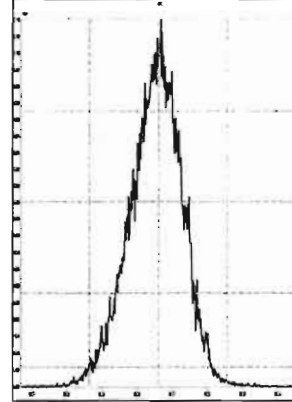
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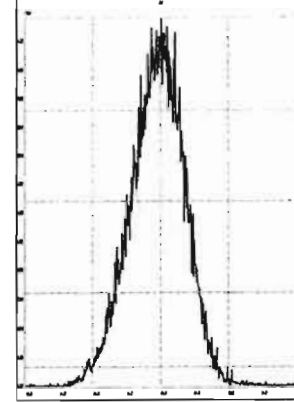
M 380.9760 R 12075



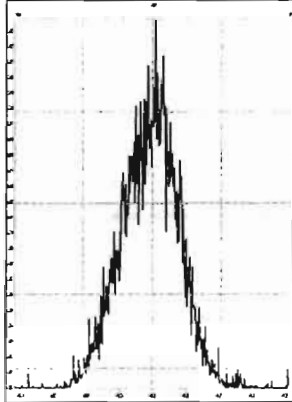
M 392.9760 R 11574



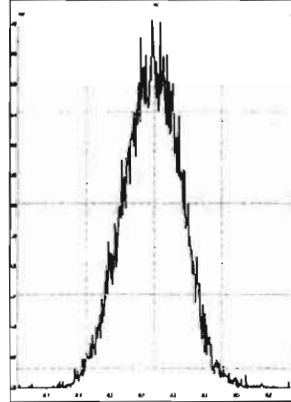
M 404.9760 R 11263



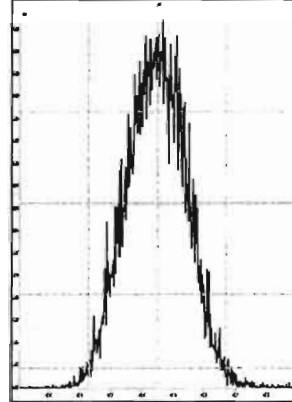
M 416.9760 R 10822



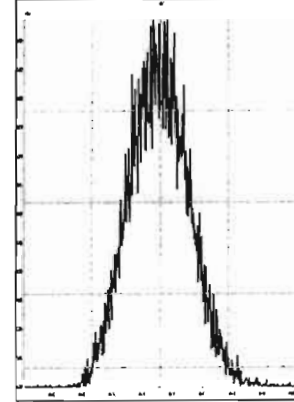
M 430.9728 R 10731



M 442.9728 R 10330



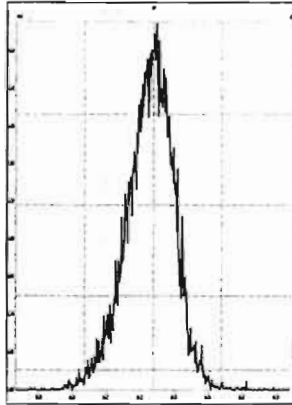
M 454.9728 R 10201



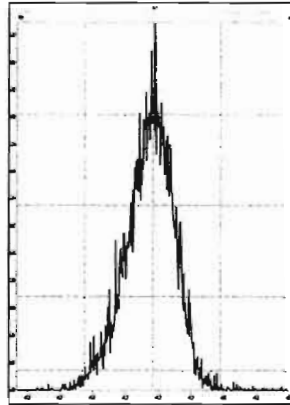
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Printed: Wednesday, November 25, 2020 10:05:26 Pacific Standard Time

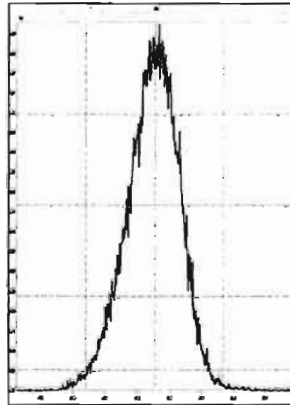
M 404.9760 R 12134



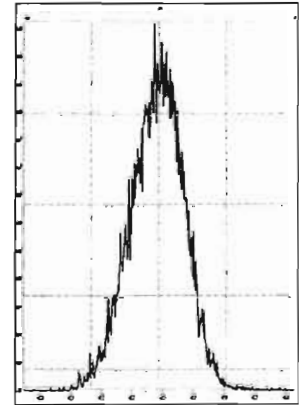
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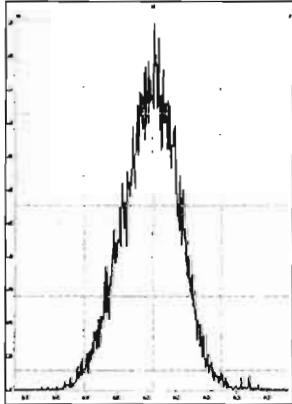
M 430.9728 R 11311



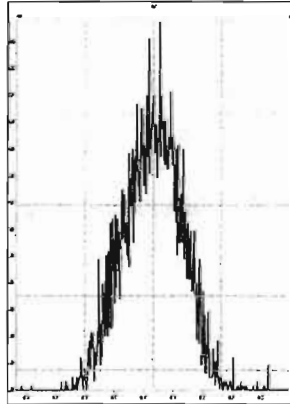
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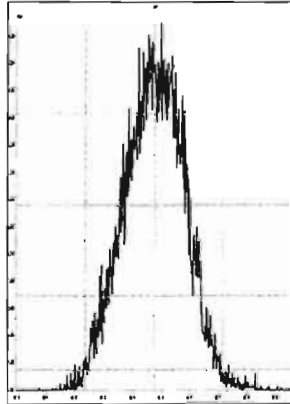
M 454.9728 R 10372



M 466.9728 R 11905



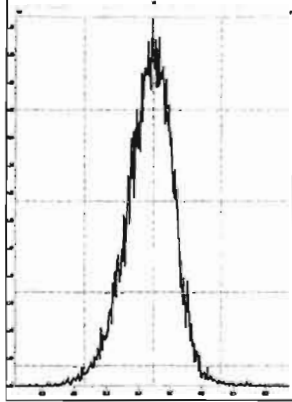
M 480.9696 R 10506



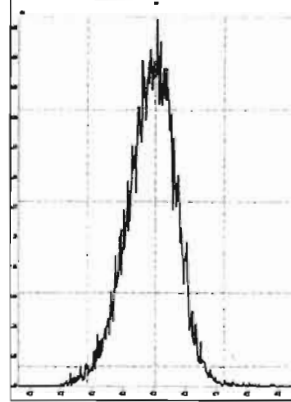
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, November 25, 2020 10:05:48 Pacific Standard Time

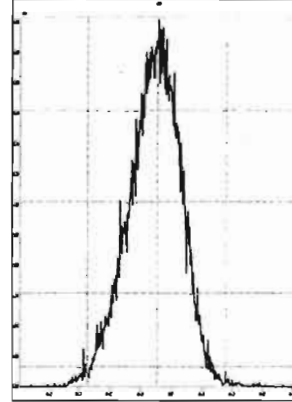
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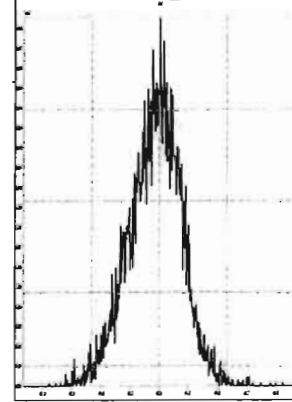
M 442.9728 R 11850



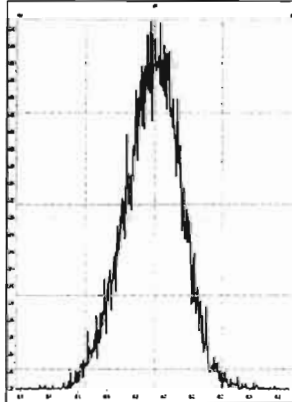
M 454.9728 R 11792



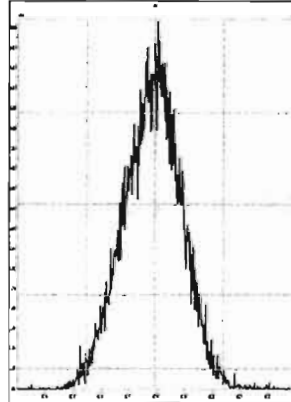
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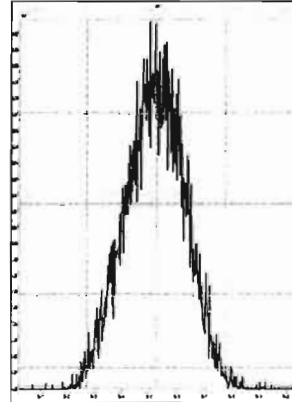
M 480.9696 R 10204



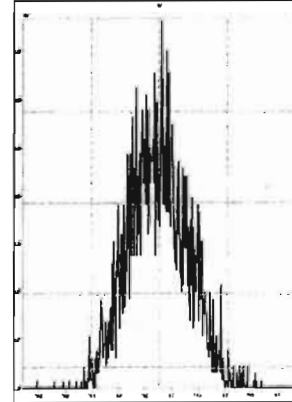
M 492.9696 R 11011



M 504.9696 R 10460



M 516.9697 R 10824



Dataset: Untitled

Last Altered: Wednesday, November 25, 2020 12:51:42 Pacific Standard Time

Printed: Wednesday, November 25, 2020 12:51:53 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1,3,6,8-TCDD (First)	22.25
2	1,2,8,9-TCDD (Last)	26.98
3	1,2,4,7,9-PeCDD (First)	28.54
4	1,2,3,8,9-PeCDD (Last)	31.17
5	1,2,4,6,7,9-HxCDD (First)	32.49
6	1,2,3,7,8,9-HxCDD (Last)	34.52
7	1,2,3,4,6,7,9-HpCDD (First)	36.97
8	1,2,3,4,6,7,8-HpCDD (Last)	38.01
9	1,3,6,8-TCDF (First)	20.05
10	1,2,8,9-TCDF (Last)	27.30
11	1,3,4,6,8-PeCDF (First)	26.87
12	1,2,3,8,9-PeCDF (Last)	31.53
13	1,2,3,4,6,8-HxCDF (First)	31.96
14	1,2,3,7,8,9-HxCDF (Last)	35.02
15	1,2,3,4,6,7,8-HpCDF (First)	36.59
16	1,2,3,4,7,8,9-HpCDF (Last)	38.63

Dataset: Untitled

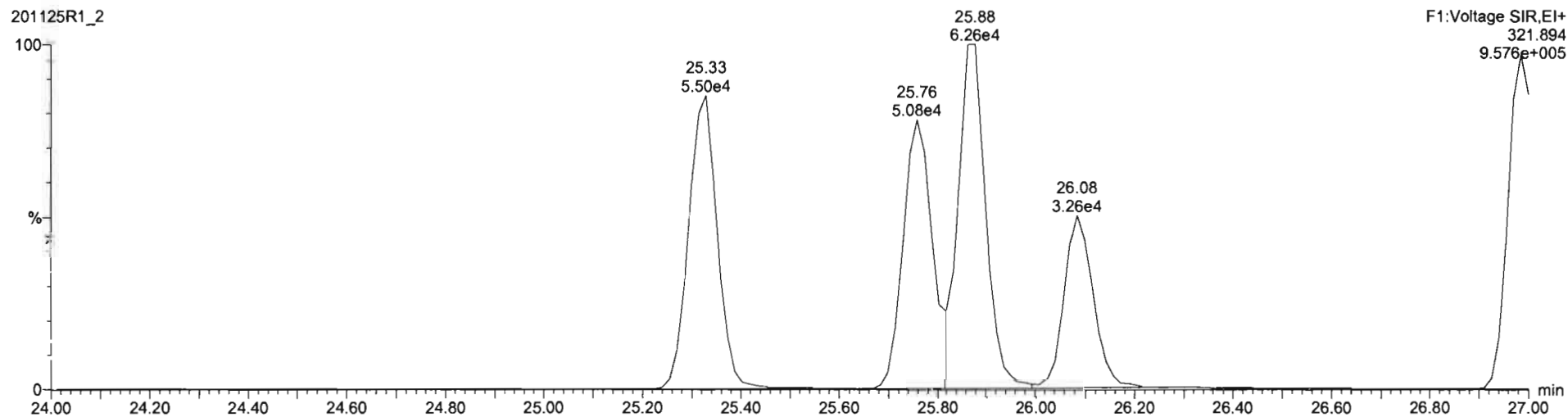
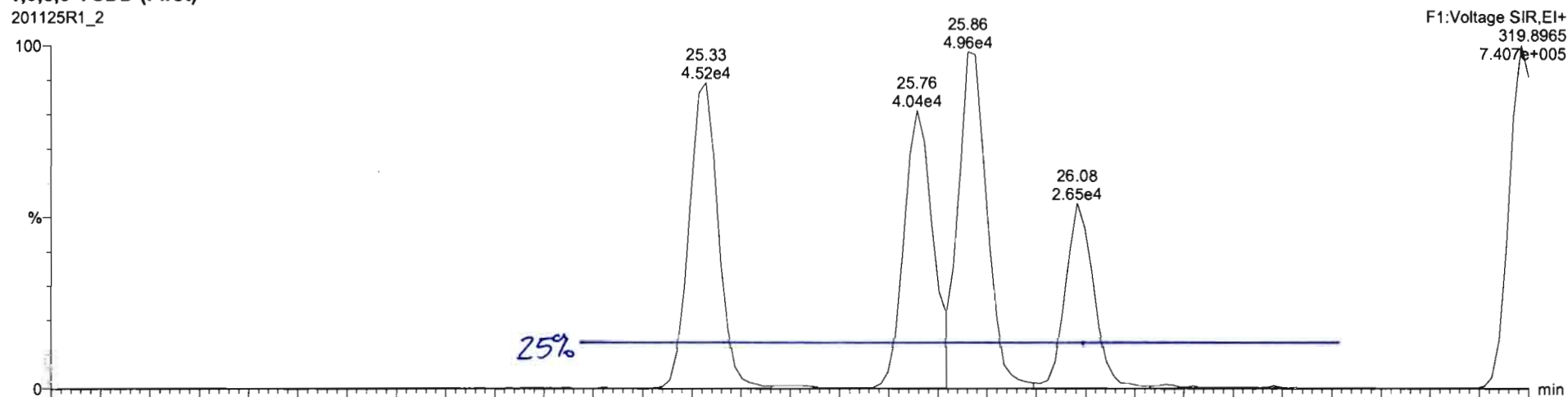
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GRB 11/25/2020
HN 12/01/2020

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

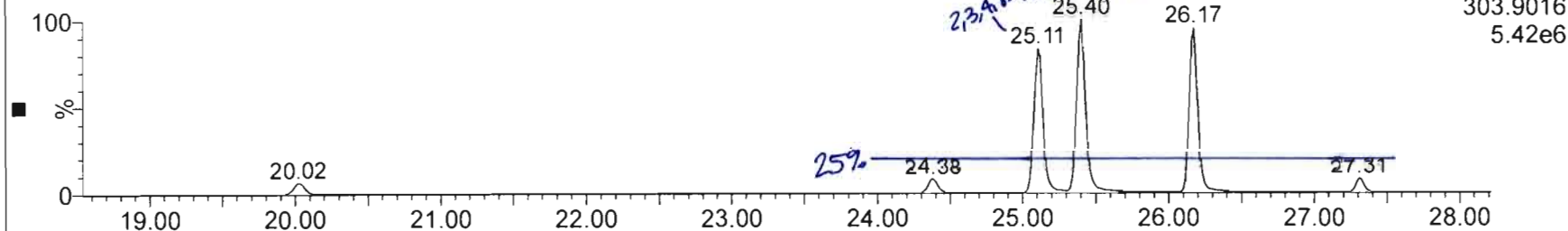
1,3,6,8-TCDD (First)
201125R1_2



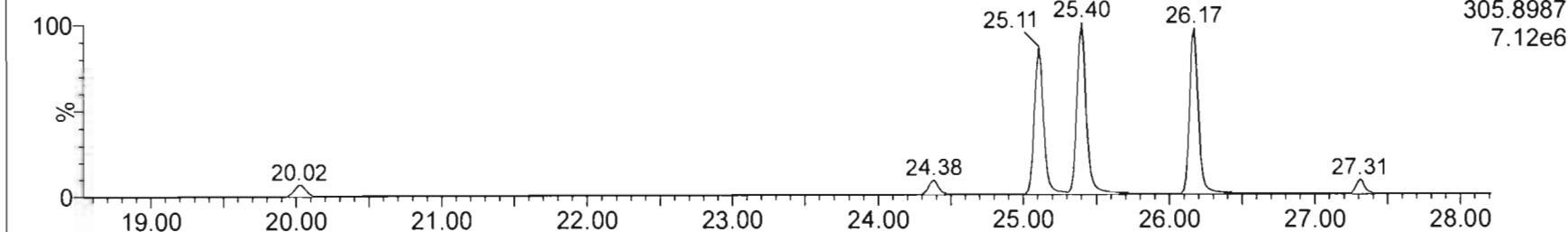
HW 12/01/2020
GRB 11/25/2020

TCDF CPSM QC

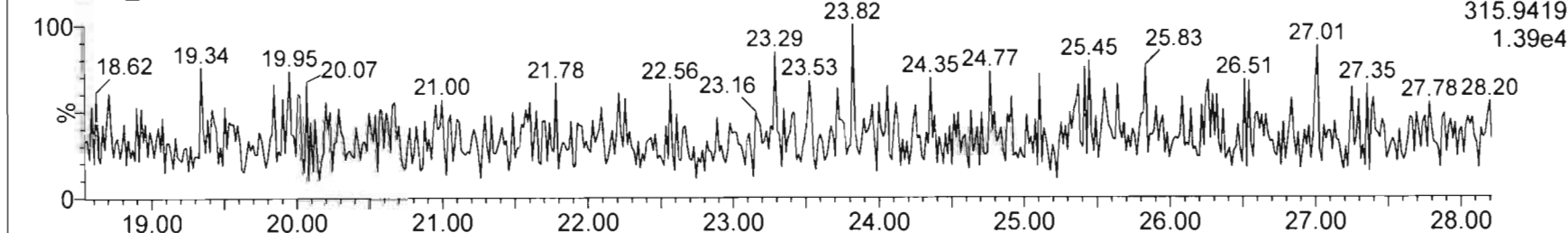
201125R1_3



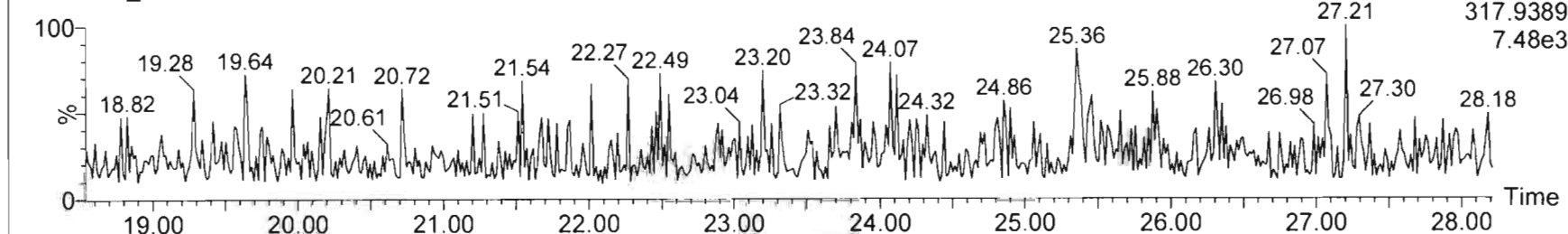
201125R1_3



201125R1_3



201125R1_3



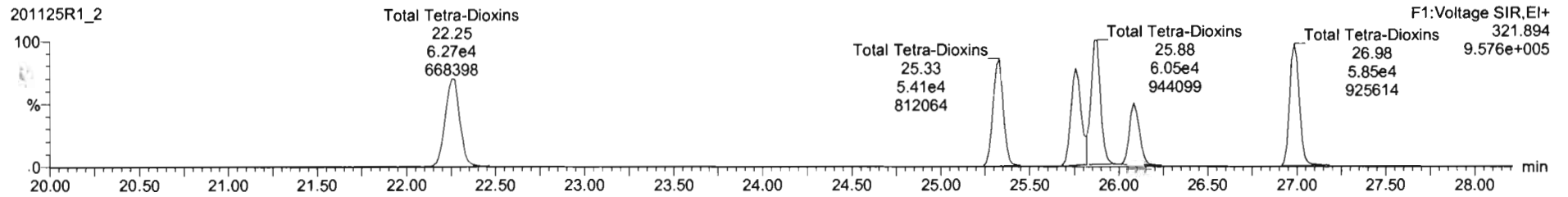
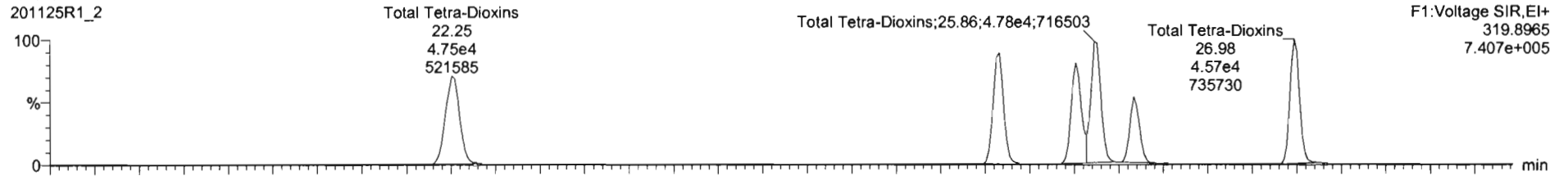
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Last Altered: Thursday, November 26, 2020 07:15:51 Pacific Standard Time
Printed: Thursday, November 26, 2020 07:16:01 Pacific Standard Time

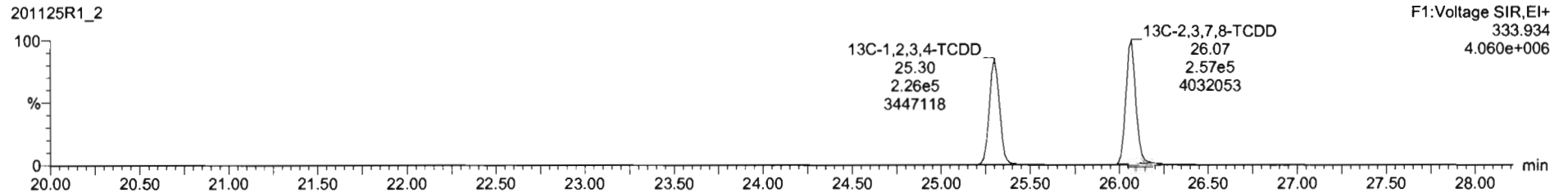
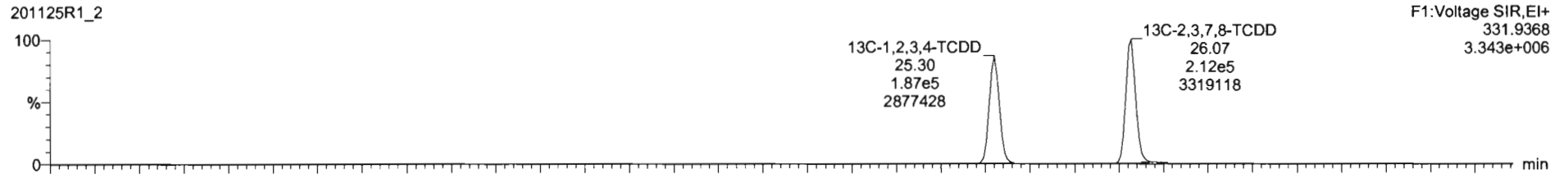
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Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

2,3,7,8-TCDD



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



Dataset: Untitled

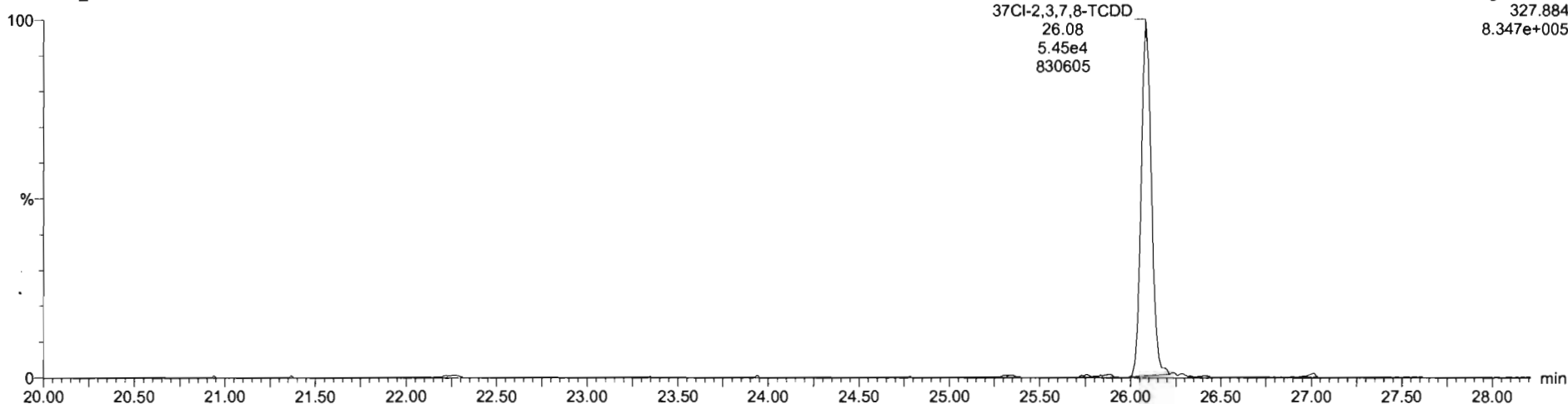
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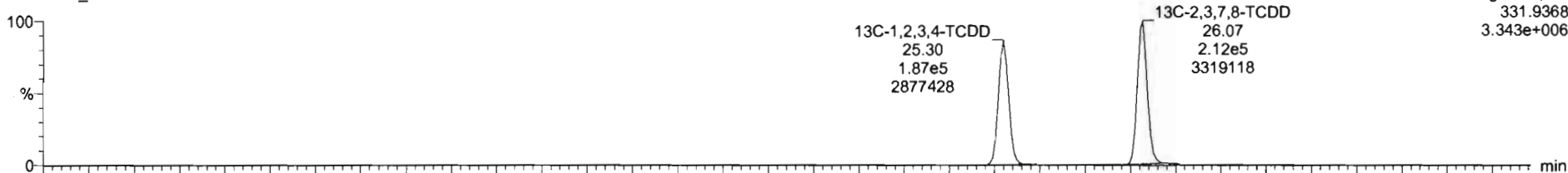
37Cl-2,3,7,8-TCDD

201125R1_2

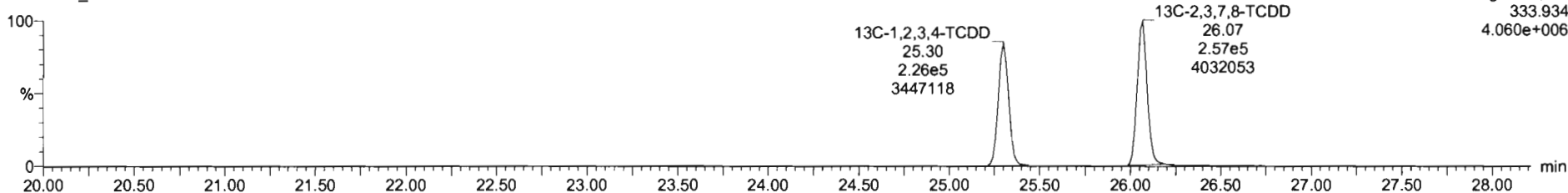


13C-1,2,3,4-TCDD

201125R1_2



201125R1_2

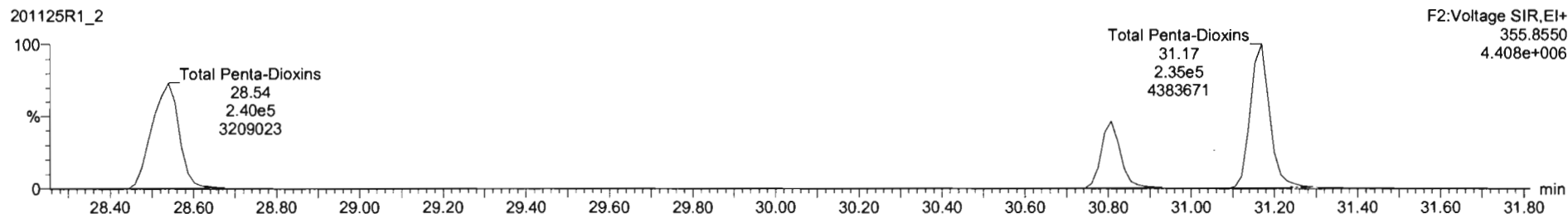
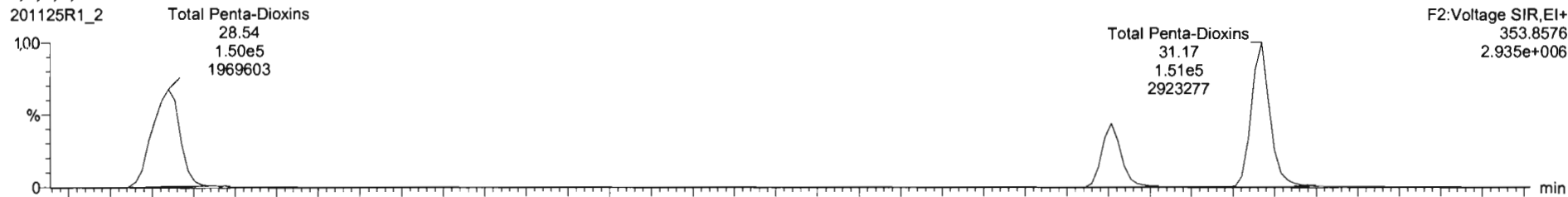


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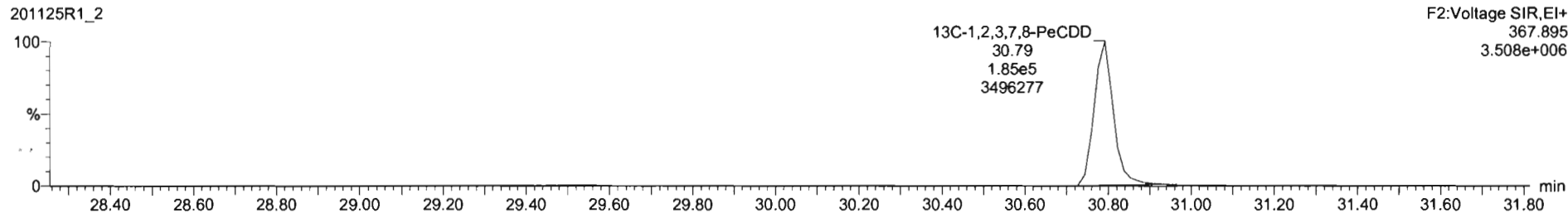
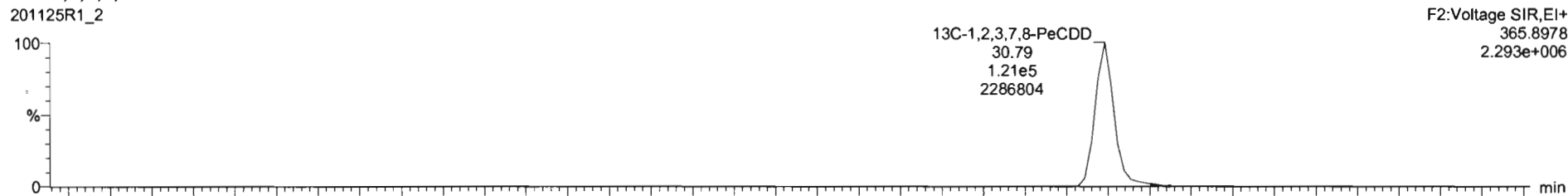
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Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

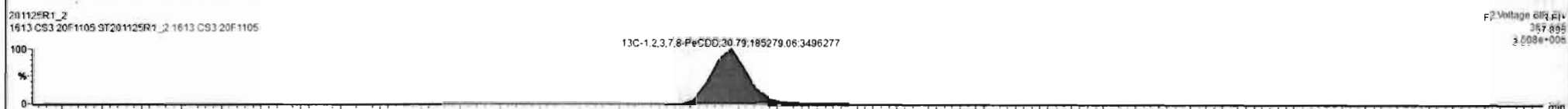
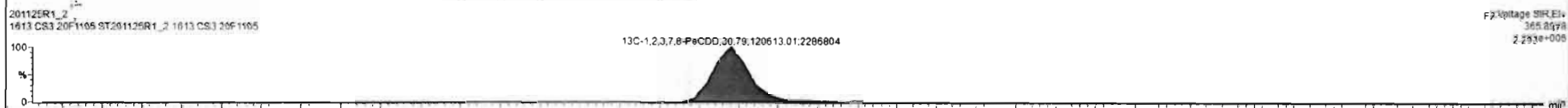
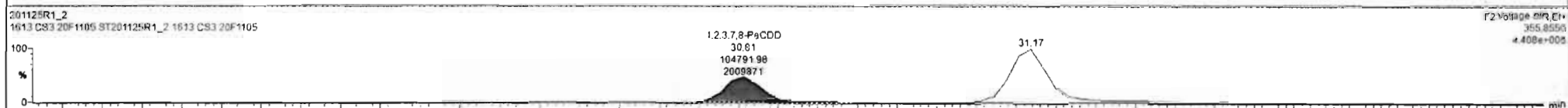
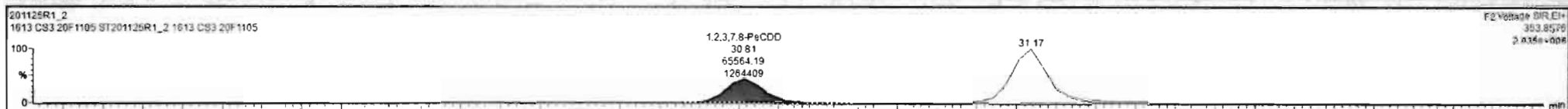
1,2,3,7,8-PeCDD



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



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.56e4	4.70e5	0.77	0.79	NO	0.9501	28.10	28.08	NO	1.001	1.001	12.5	125	NO
2	1,2,3,7,8-PeCDD	1.70e5	3.06e5	0.63	0.63	NO	0.8855	30.80	30.81	NO	1.000	1.000	62.9	126	NO
3	1,2,3,4,7,8-HxCDD	1.81e5	3.07e5	1.24	1.25	NO	1.0176	34.12	34.13	NO	1.000	1.001	58.0	116	NO
4	1,2,3,6,7,8-HxCDD	1.81e5	3.55e5	1.24	1.26	NO	0.9145	34.24	34.25	NO	1.000	1.001	55.9	112	NO
5	1,2,3,7,8,9-HxCDD	1.79e5	3.41e5	1.24	1.25	NO	0.9345	34.52	34.52	NO	1.000	1.000	56.3	113	NO
6	1,2,3,4,6,7,8-HpCDD	1.39e5	2.91e5	1.04	1.00	NO	0.8697	37.99	38.01	NO	1.000	1.000	54.7	109	NO
7	OCDD	2.22e5	4.57e5	0.89	0.92	NO	0.8717	40.94	40.95	NO	1.000	1.000	112	112	NO
8	2,3,7,8-TCDF	7.01e4	8.66e5	0.77	0.75	NO	0.8243	25.38	25.40	NO	1.000	1.001	9.82	98.3	NO
9	1,2,3,7,8-PeCDF	3.48e5	6.09e5	1.55	1.63	NO	0.9626	29.54	29.55	NO	1.000	1.000	59.4	119	NO
10	2,3,4,7,8-PeCDF	3.81e5	5.83e5	1.55	1.58	NO	1.0684	30.60	30.60	NO	1.000	1.000	58.1	116	NO
11	1,2,3,4,7,8-HxCDF	2.20e5	4.63e5	1.24	1.21	NO	0.9535	33.21	33.23	NO	1.000	1.001	49.8	99.7	NO
12	1,2,3,6,7,8-HxCDF	2.39e5	4.86e5	1.24	1.20	NO	1.0080	33.35	33.35	NO	1.000	1.000	48.7	97.4	NO
13	2,3,4,6,7,8-HxCDF	2.20e5	4.50e5	1.24	1.24	NO	0.9907	34.01	34.01	NO	1.000	1.000	49.3	98.6	NO
14	1,2,3,7,8,9-HxCDF	1.79e5	3.89e5	1.24	1.22	NO	0.9505	35.01	35.02	NO	1.000	1.000	48.4	96.8	NO
15	1,2,3,4,6,7,8-HpCDF	1.66e5	3.44e5	1.04	1.00	NO	0.9998	35.58	35.59	NO	1.000	1.000	48.3	96.6	NO
16	1,2,3,4,7,8,9-HpCDF	1.29e5	2.40e5	1.04	0.99	NO	1.1238	38.82	38.83	NO	1.000	1.000	48.1	96.1	NO
17	OCDF	2.47e5	5.69e5	0.89	0.87	NO	0.8682	41.24	41.24	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	4.70e5	4.14e5	0.77	0.82	NO	1.1089	28.05	28.07	NO	1.030	1.030	102	102	NO
19	13C-1,2,3,7,8-PeCDD	3.06e5	4.14e5	0.63	0.85	NO	0.8585	30.77	30.79	NO	1.216	1.217	85.1	88.1	NO



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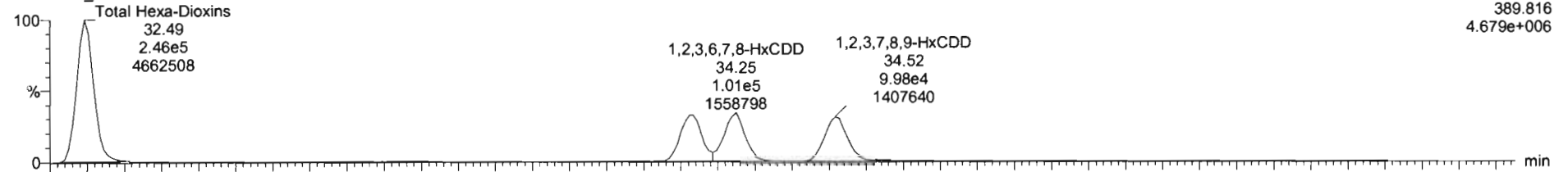
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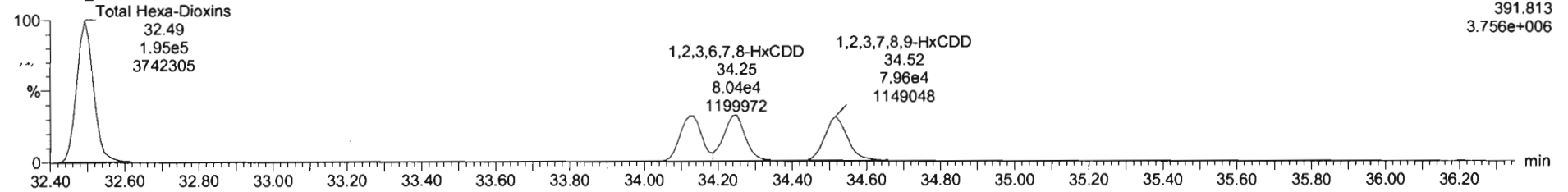
Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201125R1_2

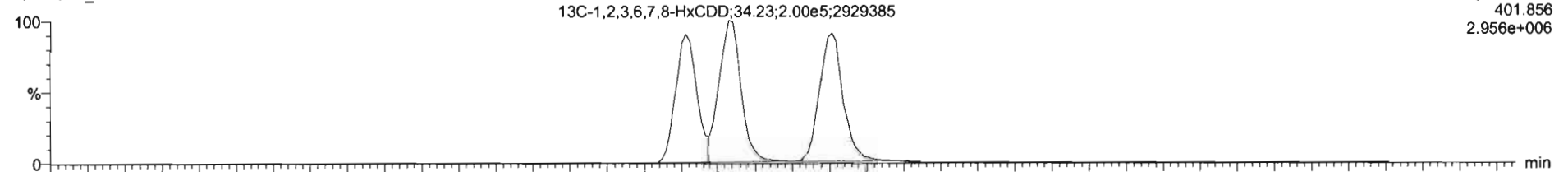


201125R1_2

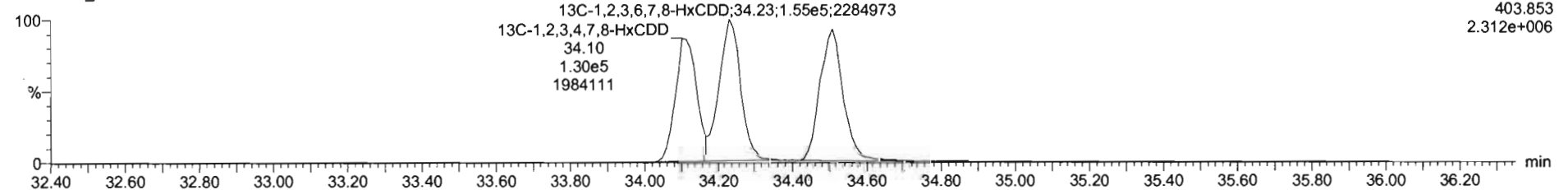


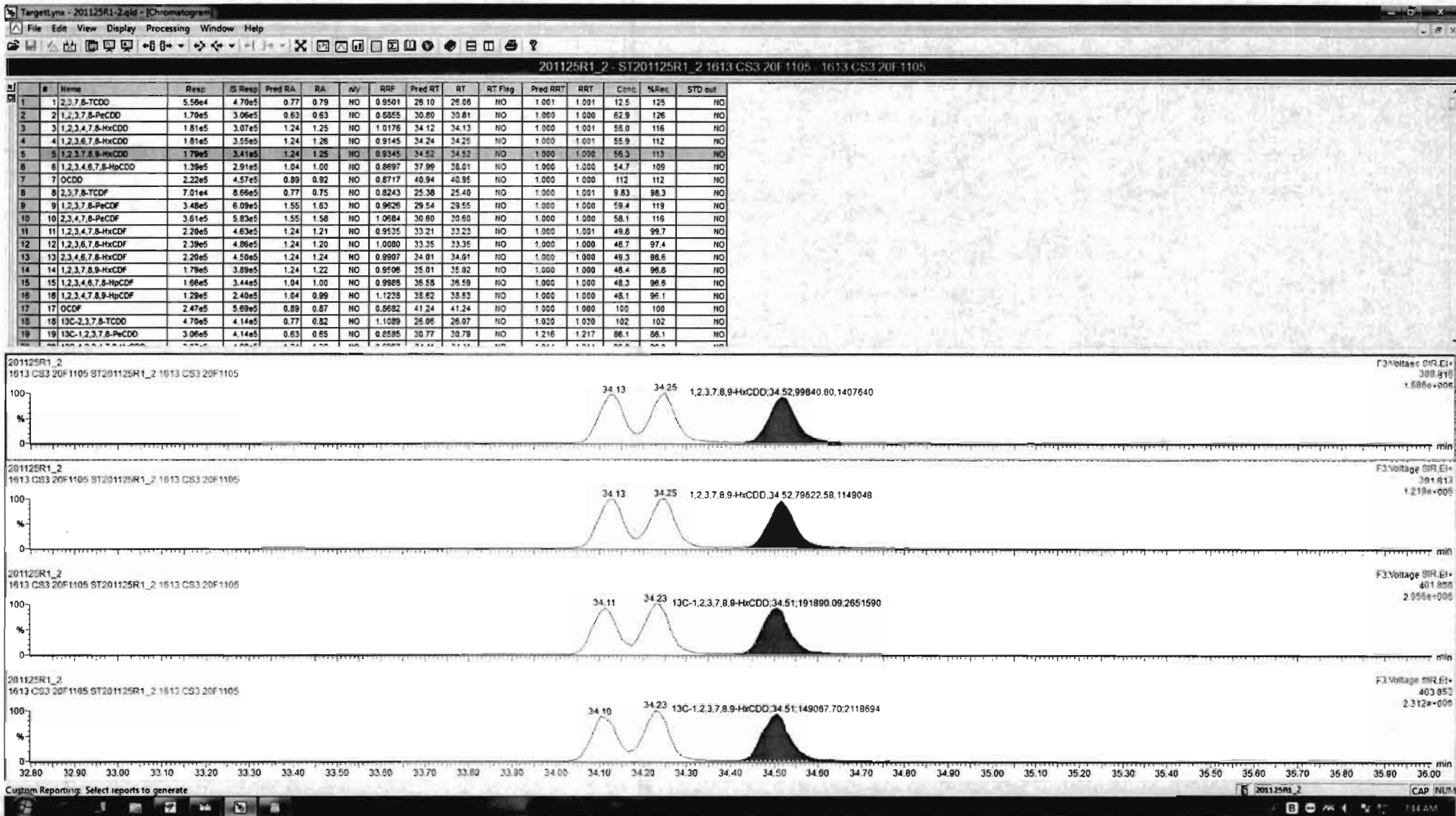
13C-1,2,3,4,7,8-HxCDD

201125R1_2



201125R1_2





Dataset: Untitled

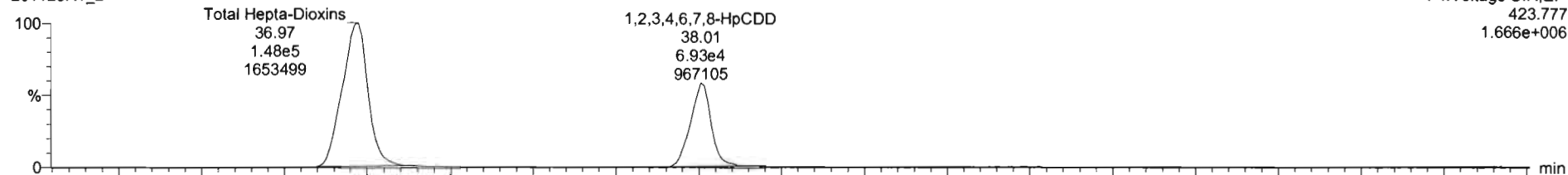
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Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

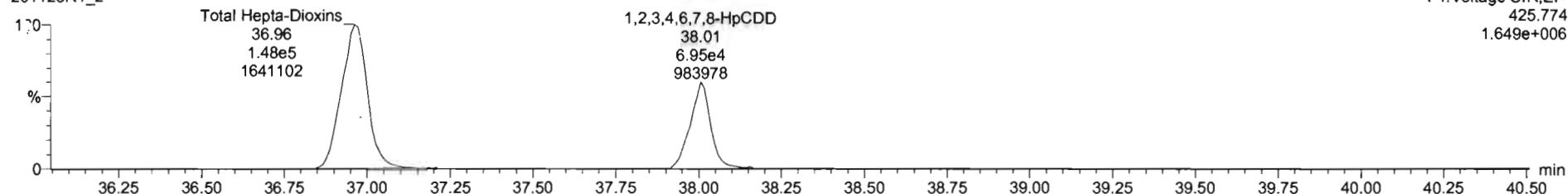
1,2,3,4,6,7,8-HpCDD

201125R1_2



F4:Voltage SIR,EI+
423.777
1.666e+006

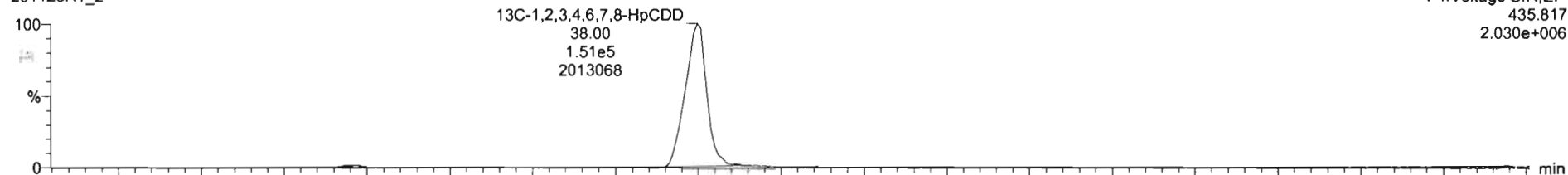
201125R1_2



F4:Voltage SIR,EI+
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1.649e+006

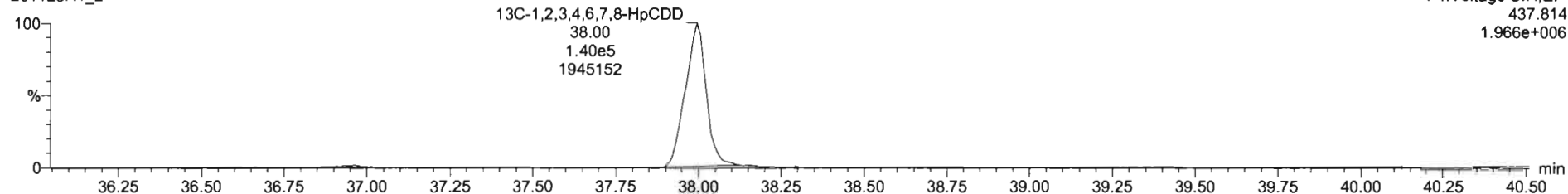
13C-1,2,3,4,6,7,8-HpCDD

201125R1_2



F4:Voltage SIR,EI+
435.817
2.030e+006

201125R1_2



F4:Voltage SIR,EI+
437.814
1.966e+006

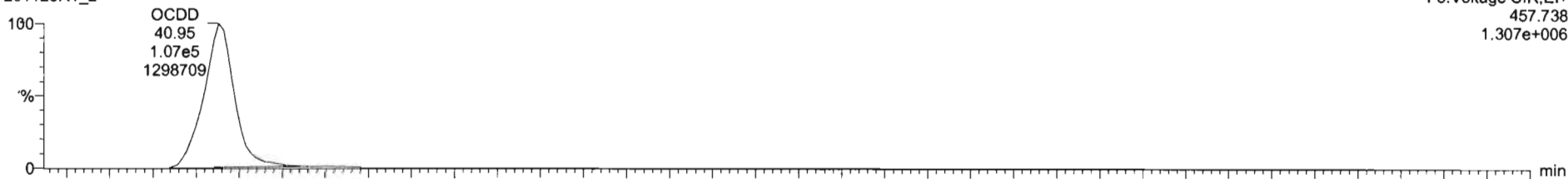
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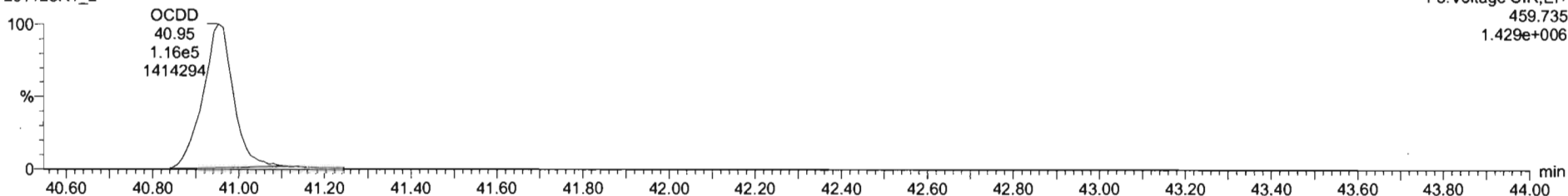
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OCDD

201125R1_2

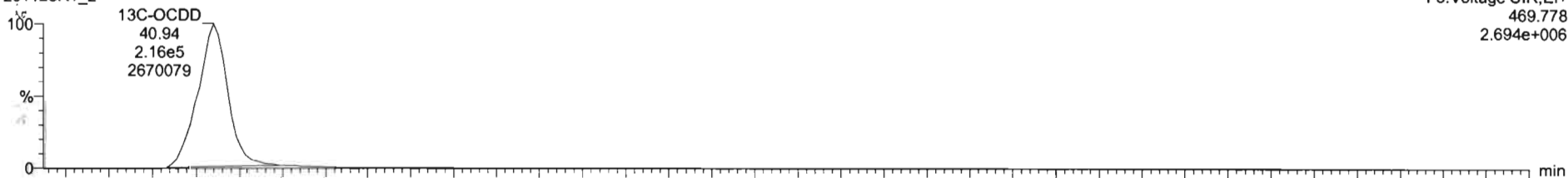


201125R1_2

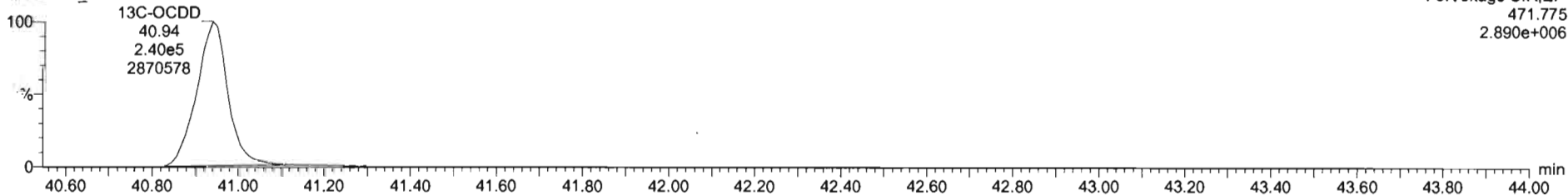


13C-OCDD

201125R1_2



201125R1_2



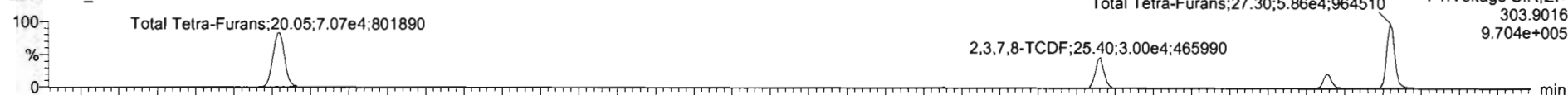
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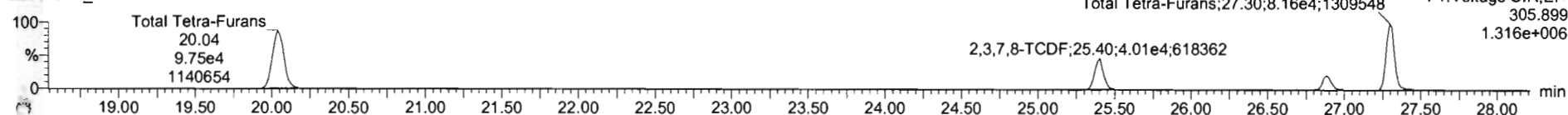
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2,3,7,8-TCDF

201125R1_2

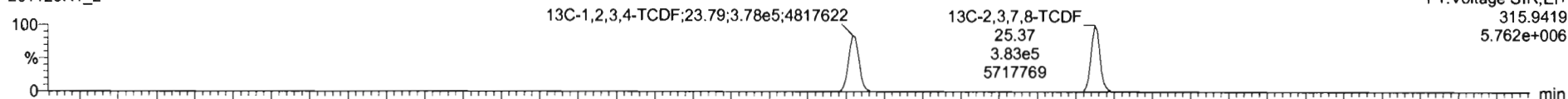


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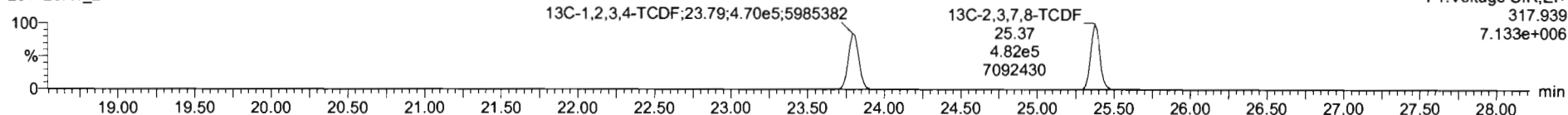


13C-2,3,7,8-TCDF

201125R1_2

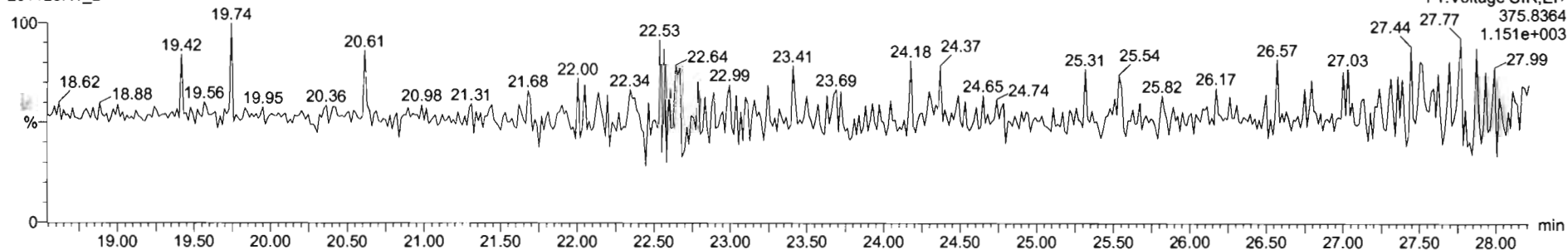


201125R1_2



DPE1

201125R1_2



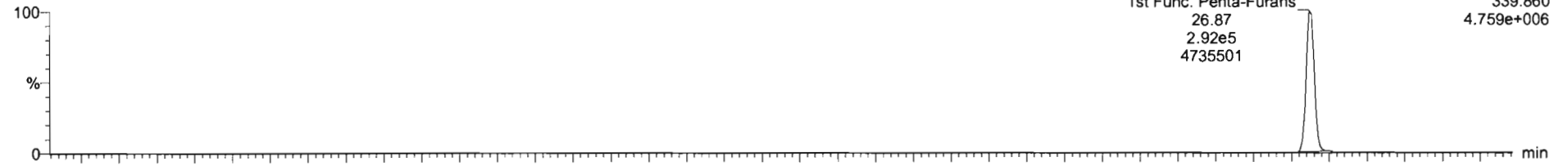
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Printed: Thursday, November 26, 2020 07:16:01 Pacific Standard Time

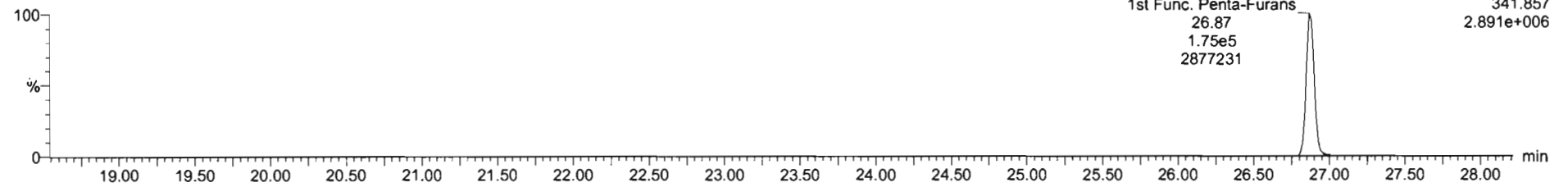
Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1st Func. Penta-Furans

201125R1_2

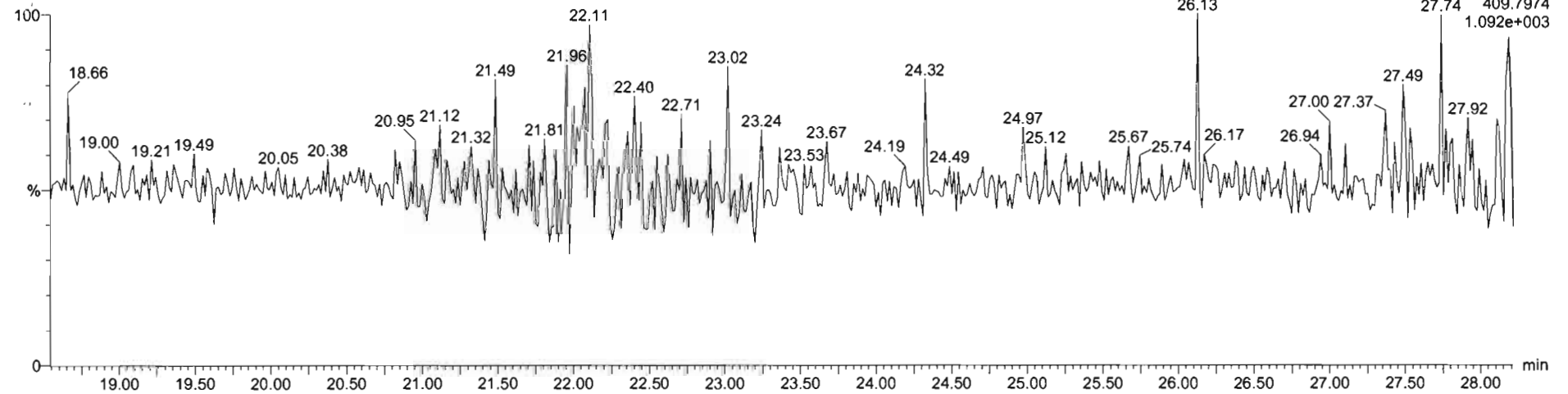


201125R1_2



DPE6

201125R1_2



Dataset: Untitled

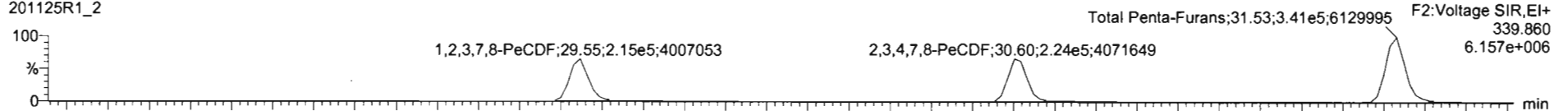
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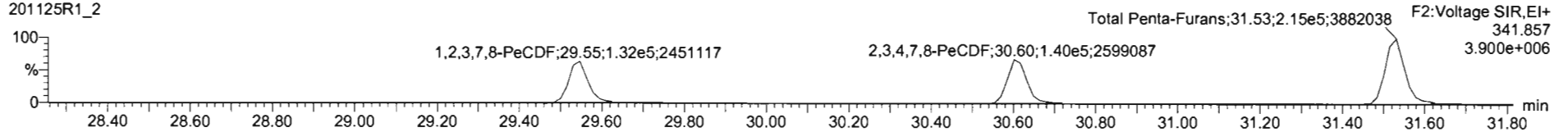
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1,2,3,7,8-PeCDF

201125R1_2

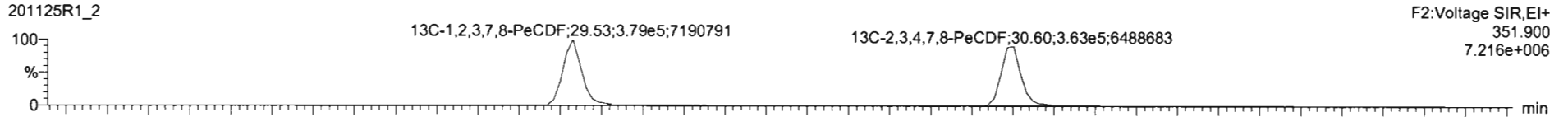


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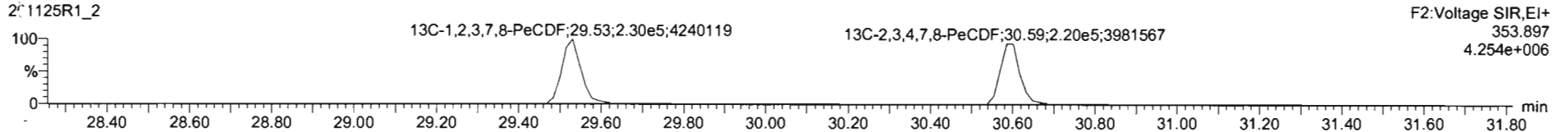


13C-1,2,3,7,8-PeCDF

201125R1_2

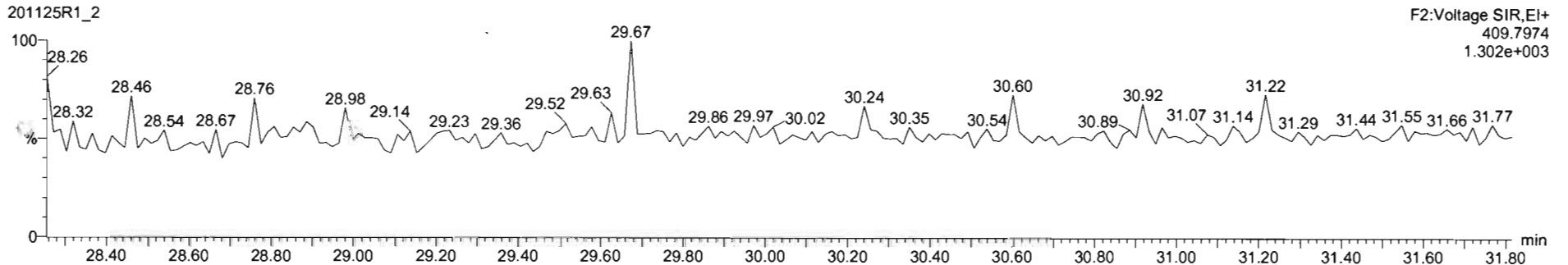


201125R1_2



DPE2

201125R1_2

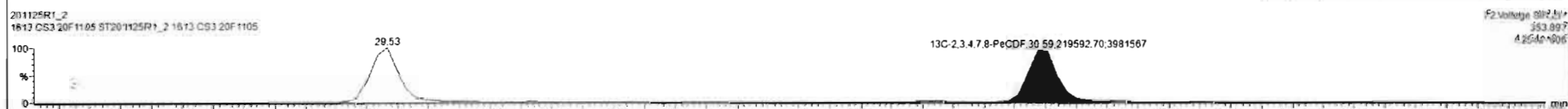
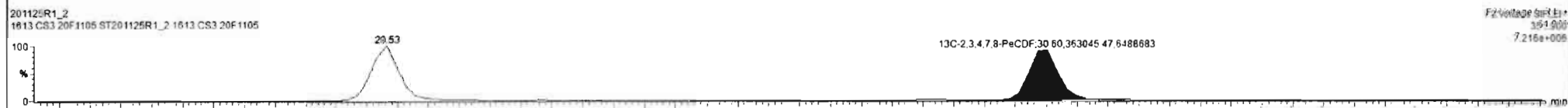


TargetLynx - 201125R1_2.qld - Chromatogram

File Edit View Display Processing Window Help

201125R1_2 - ST201125R1_2 1613 CS3 20F1105 1613 CS3 20F1105

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.56e4	4.70e5	0.77	0.79	NO	0.9501	26.10	26.08	NO	1.001	1.001	12.5	125	NO
2	1,2,3,7,8-PeCDD	1.70e5	3.06e5	0.63	0.63	NO	0.6855	30.80	30.81	NO	1.000	1.000	62.9	126	NO
3	1,2,3,4,7,8-HxCDD	1.81e5	3.07e5	1.24	1.25	NO	1.0176	34.12	34.13	NO	1.000	1.001	58.0	116	NO
4	1,2,3,6,7,8-HxCDD	1.81e5	3.55e5	1.24	1.26	NO	0.9145	34.24	34.25	NO	1.000	1.001	55.9	112	NO
5	1,2,3,7,8,9-HxCDD	1.79e5	3.41e5	1.24	1.25	NO	0.9345	34.52	34.52	NO	1.000	1.000	56.3	113	NO
6	1,2,3,4,6,7,8-HpCDD	1.39e5	2.91e5	1.04	1.00	NO	0.8697	37.99	38.01	NO	1.000	1.000	54.7	109	NO
7	OCDD	2.22e5	4.57e5	0.89	0.92	NO	0.8717	40.94	40.95	NO	1.000	1.000	112	112	NO
8	2,3,7,8-TCDF	7.01e4	8.66e5	0.77	0.75	NO	0.8243	25.38	25.40	NO	1.000	1.001	9.83	98.3	NO
9	1,2,3,7,8-PeCDF	3.46e5	6.09e5	1.55	1.63	NO	0.9626	29.54	29.55	NO	1.000	1.000	59.4	119	NO
10	2,3,4,7,8-PeCDF	3.61e5	5.83e5	1.55	1.58	NO	1.0684	30.60	30.60	NO	1.000	1.000	58.1	116	NO
11	1,2,3,4,7,8-HxCDF	2.20e5	4.63e5	1.24	1.21	NO	0.9535	33.21	33.23	NO	1.000	1.001	49.8	99.7	NO
12	1,2,3,6,7,8-HxCDF	2.39e5	4.86e5	1.24	1.20	NO	1.0080	33.35	33.35	NO	1.000	1.000	48.7	97.4	NO
13	2,3,4,6,7,8-HxCDF	2.20e5	4.50e5	1.24	1.24	NO	0.9907	34.01	34.01	NO	1.000	1.000	49.3	98.6	NO
14	1,2,3,7,8,9-HxCDF	1.79e5	3.89e5	1.24	1.22	NO	0.9506	35.01	35.02	NO	1.000	1.000	48.4	96.8	NO
15	1,2,3,4,6,7,8-HpCDF	1.66e5	3.44e5	1.04	1.00	NO	0.9985	36.58	36.59	NO	1.000	1.000	48.3	96.6	NO
16	1,2,3,4,7,8,9-HpCDF	1.29e5	2.40e5	1.04	0.99	NO	1.1238	35.62	35.63	NO	1.000	1.000	48.1	96.1	NO
17	OCDF	2.47e5	5.69e5	0.89	0.87	NO	0.8682	41.24	41.24	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	4.70e5	4.14e5	0.77	0.82	NO	1.1089	25.05	25.07	NO	1.020	1.020	102	102	NO
19	13C-1,2,3,7,8-PeCDD	3.06e5	4.14e5	0.63	0.65	NO	0.8595	30.77	30.79	NO	1.216	1.217	88.1	86.1	NO

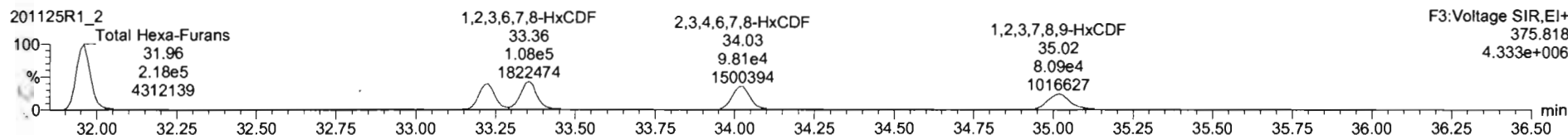
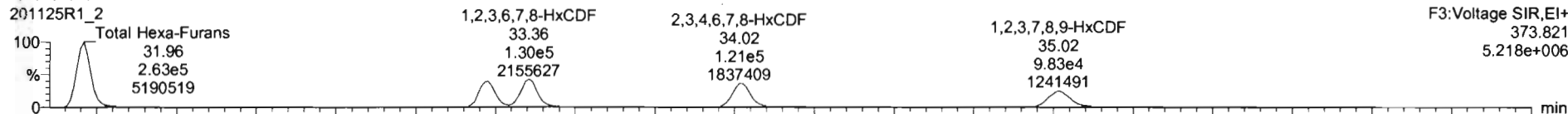


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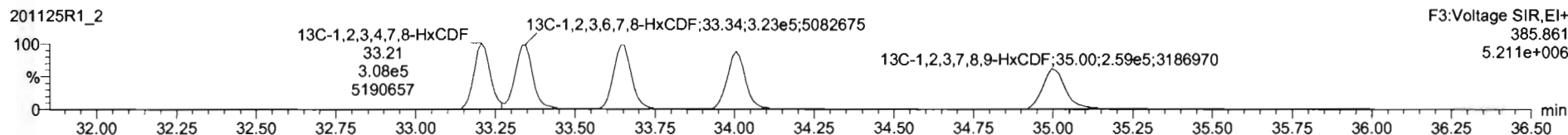
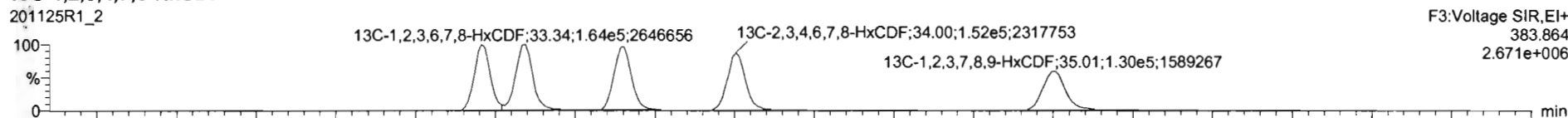
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Printed: Thursday, November 26, 2020 07:16:01 Pacific Standard Time

Name: 201125R1_2, Date: 25-Nov-2020, Time: 10:06:48, ID: ST201125R1_2 1613 CS3 20F1105, Description: 1613 CS3 20F1105

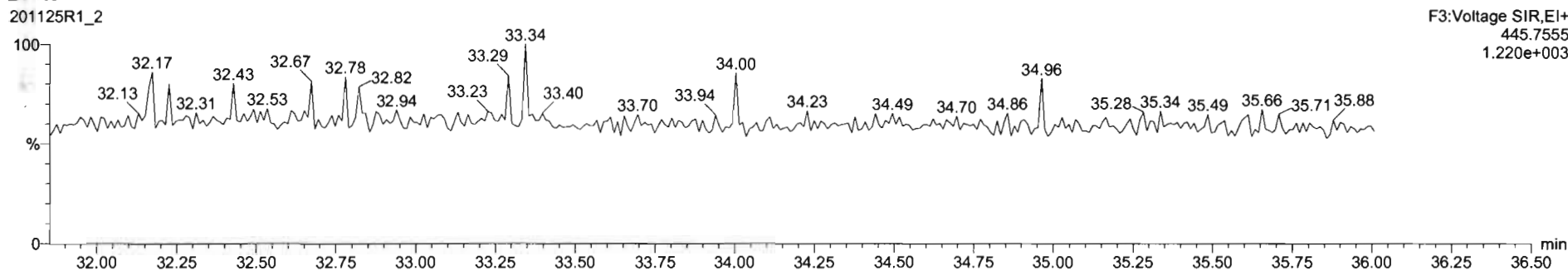
1,2,3,4,7,8-HxCDF



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



DPE3

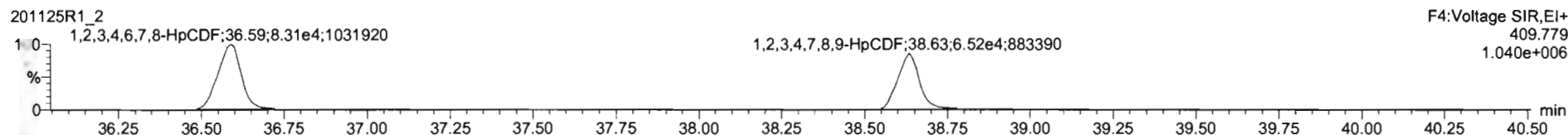
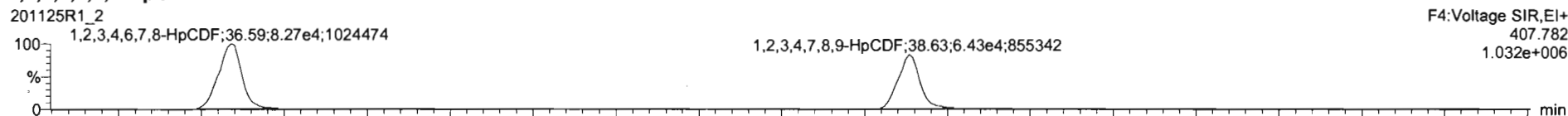


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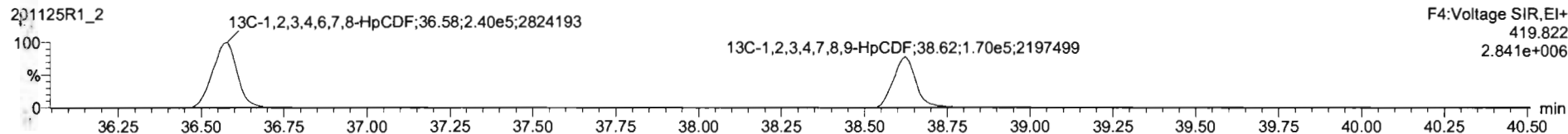
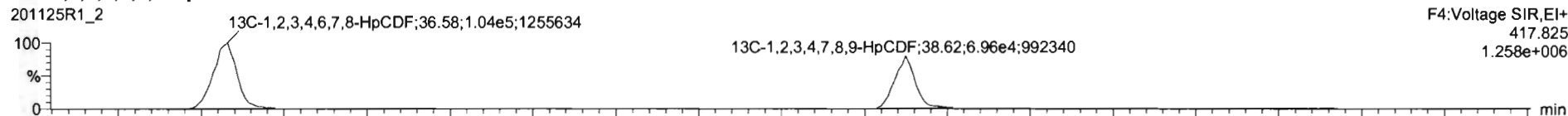
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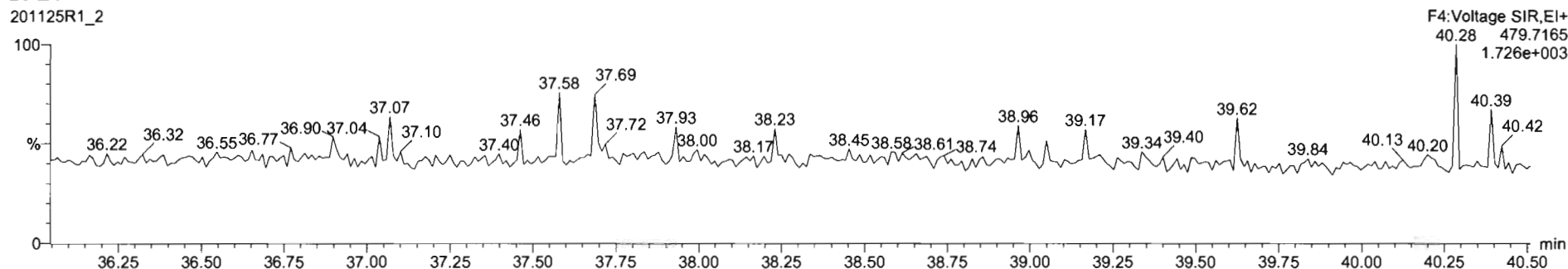
1,2,3,4,6,7,8-HpCDF



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



DPE4

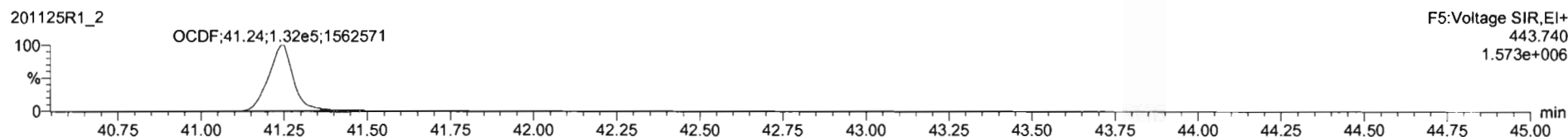
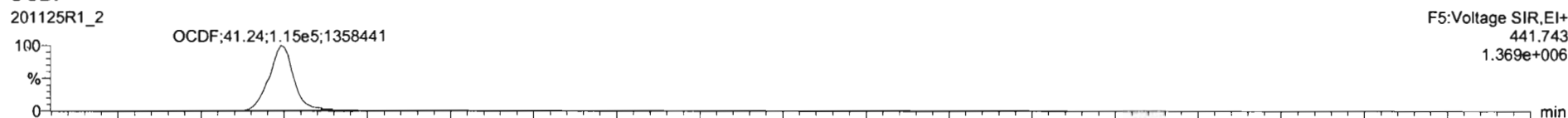


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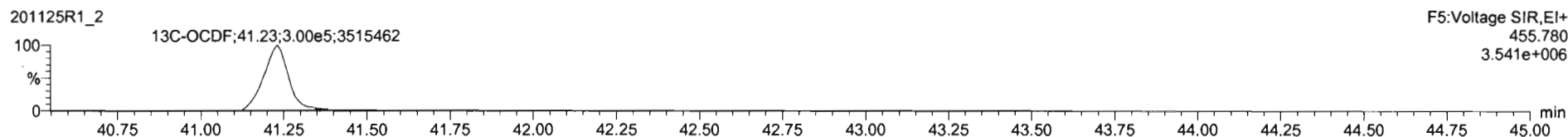
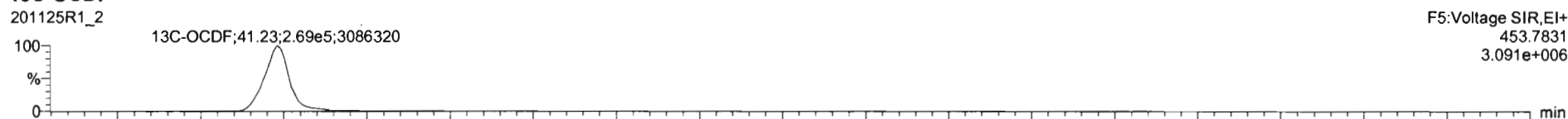
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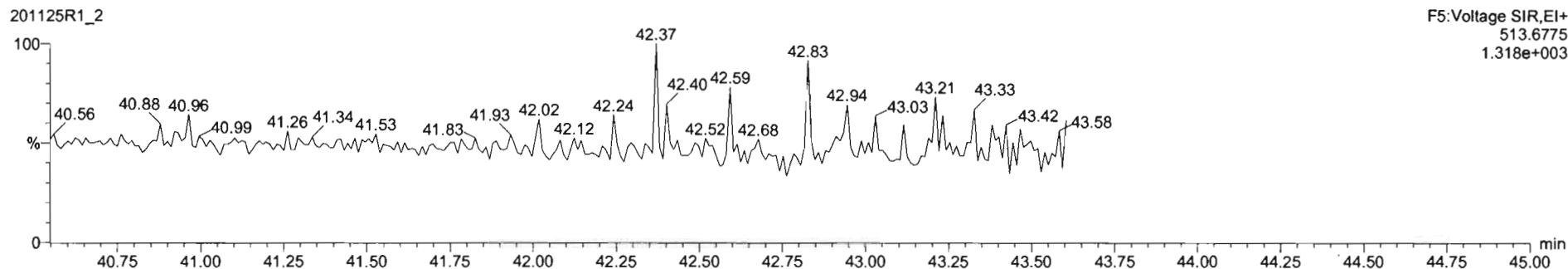
OCDF



13C-OCDF



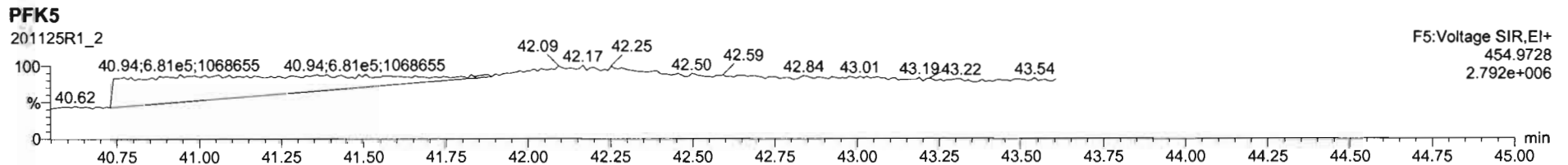
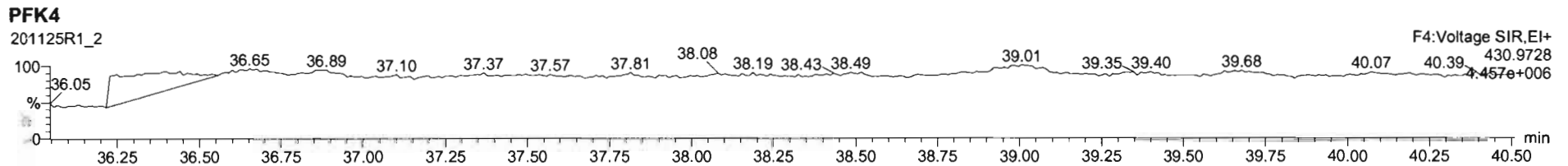
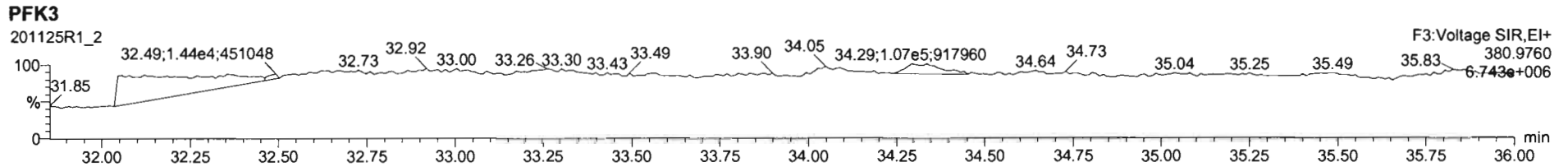
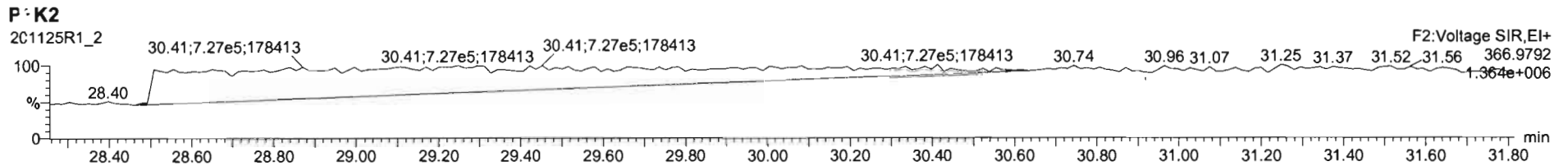
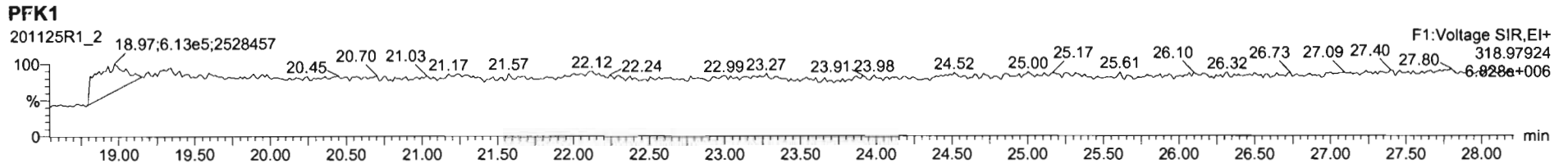
DPE5



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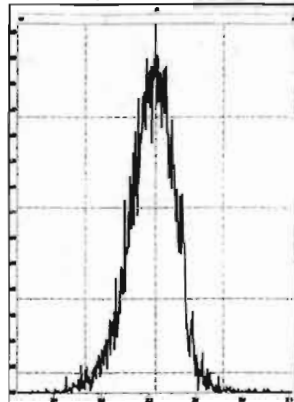
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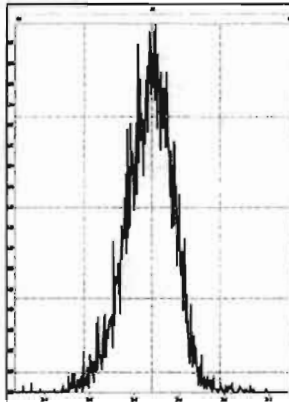
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:02:03 Pacific Standard Time

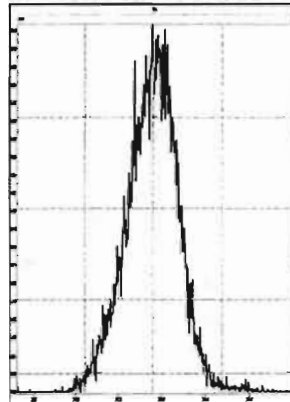
M 292.9824 R 13584



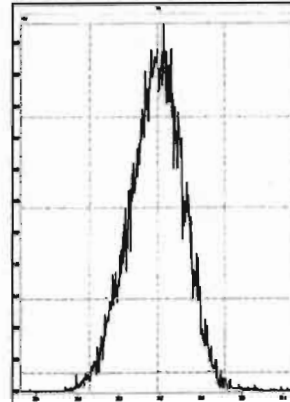
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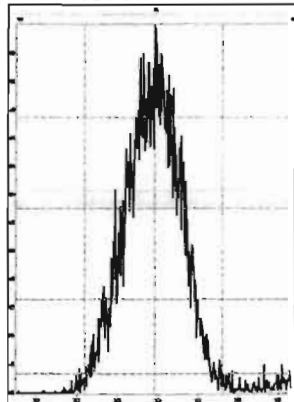
M 318.9792 R 12503



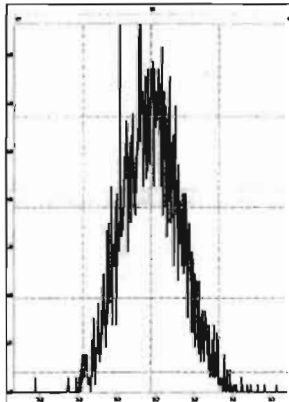
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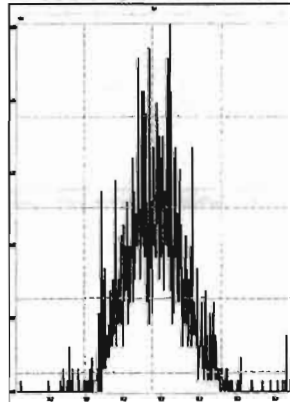
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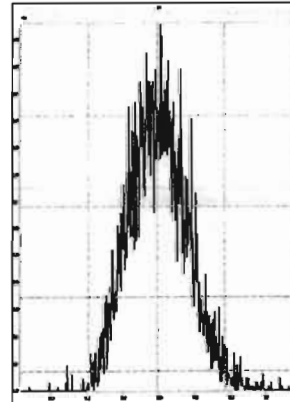
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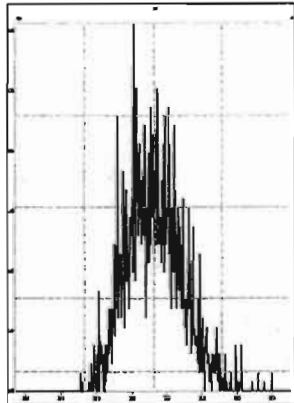
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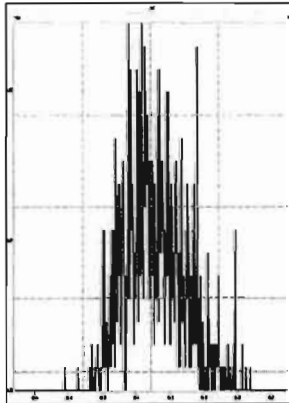
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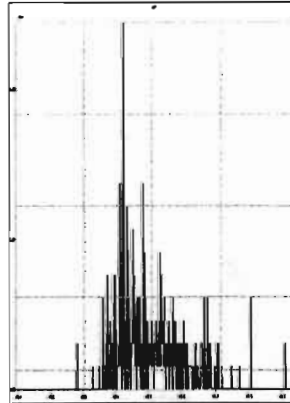
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M 404.9760 R 14284



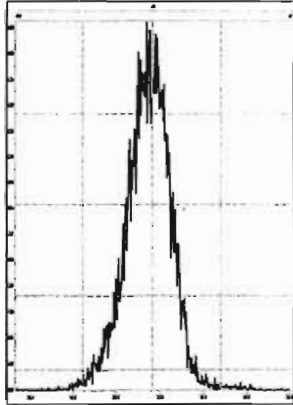
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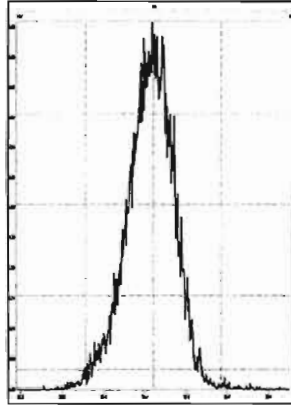
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Printed: Thursday, November 26, 2020 08:02:29 Pacific Standard Time

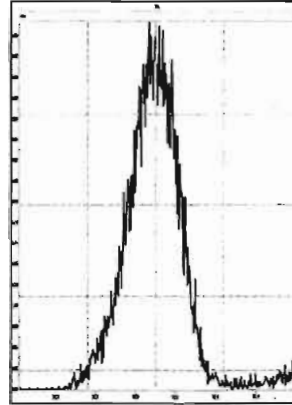
M 318.9792 R 14123



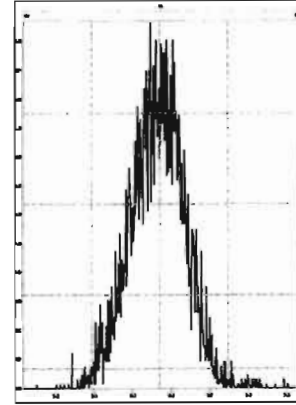
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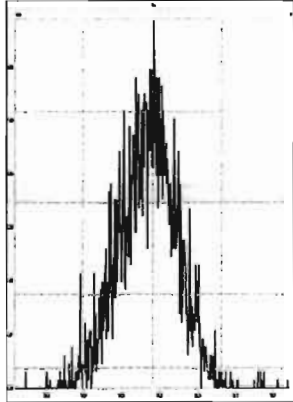
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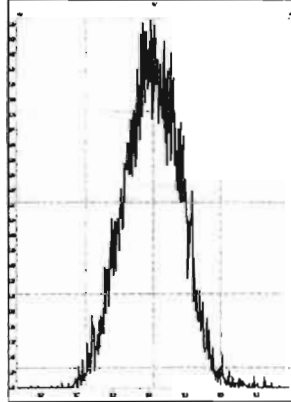
M 354.9792 R 12256



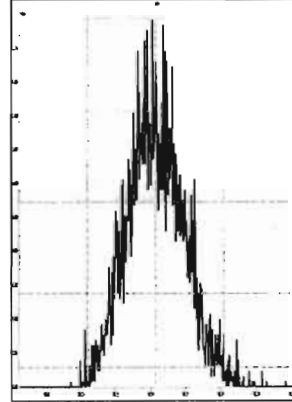
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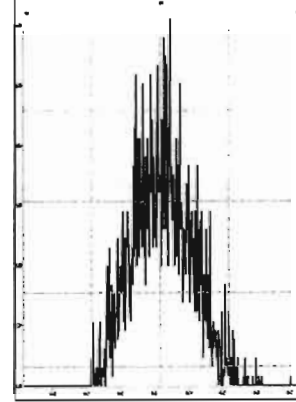
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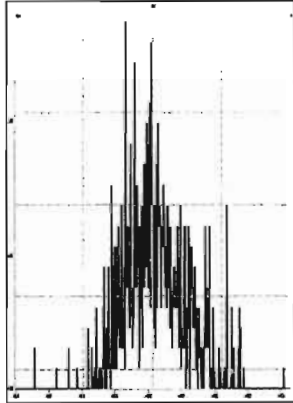
M 392.9760 R 11791



M 404.9760 R 12195



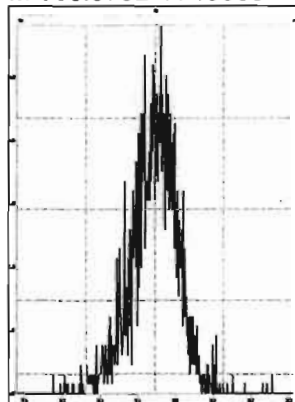
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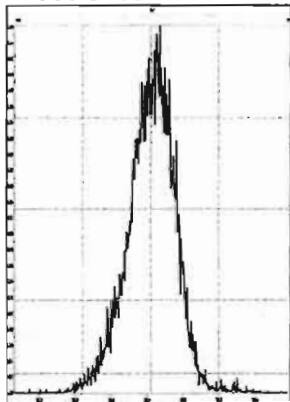
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Printed: Thursday, November 26, 2020 08:03:05 Pacific Standard Time

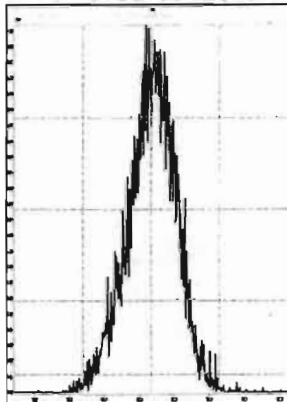
M 366.9792 R 13368



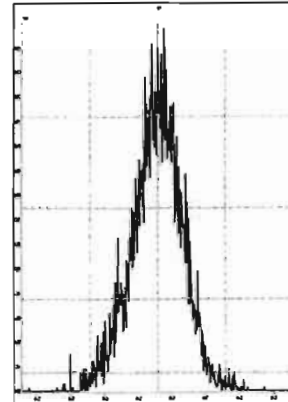
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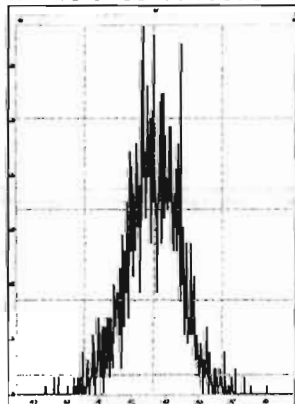
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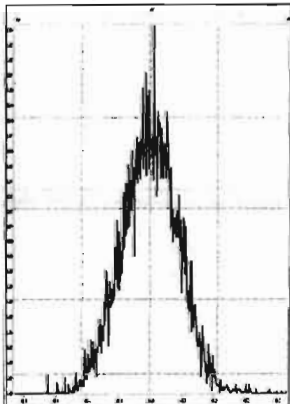
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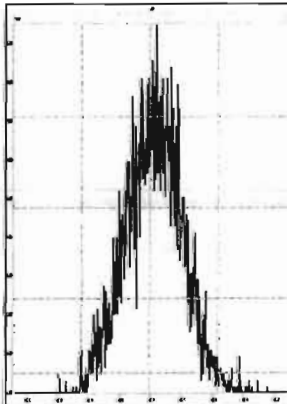
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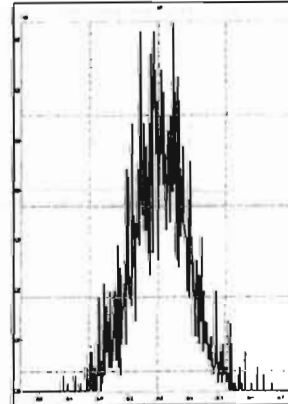
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M 442.9728 R 10821



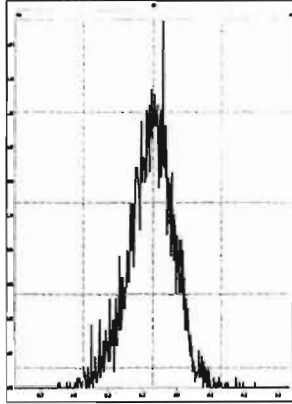
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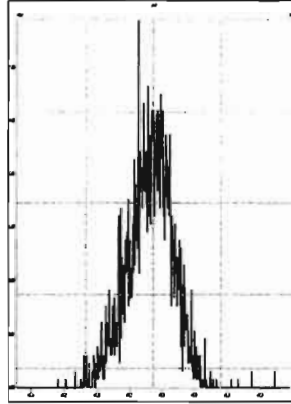
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Printed: Thursday, November 26, 2020 08:03:33 Pacific Standard Time

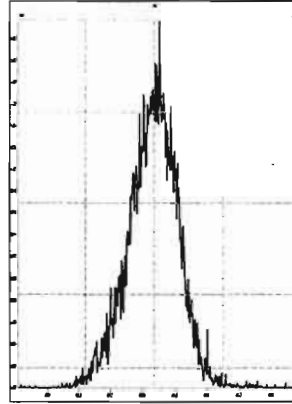
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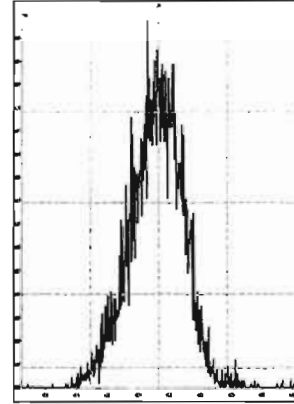
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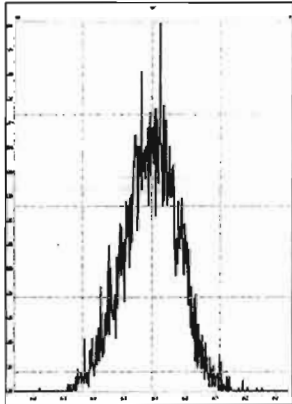
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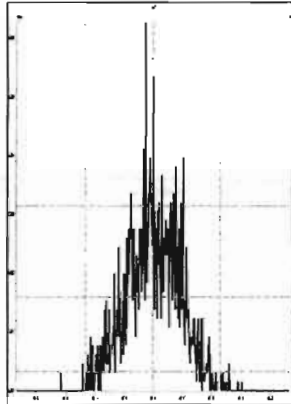
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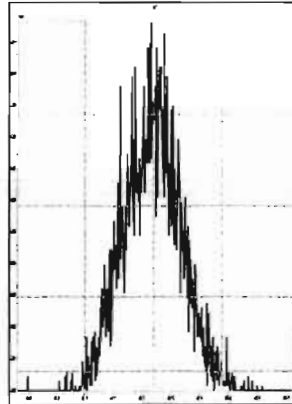
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M 466.9728 R 14124



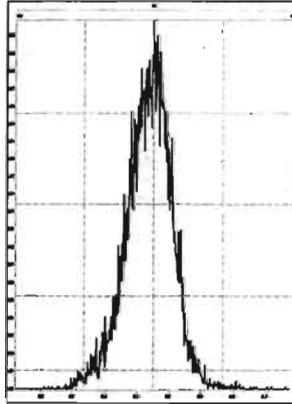
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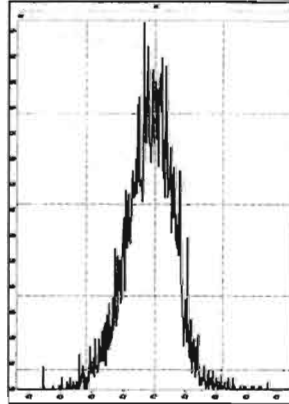
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Printed: Thursday, November 26, 2020 08:03:51 Pacific Standard Time

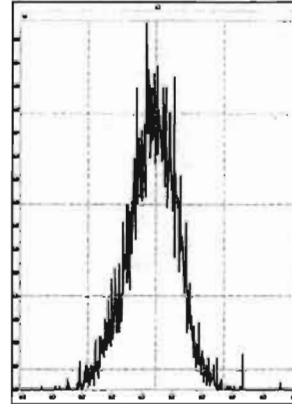
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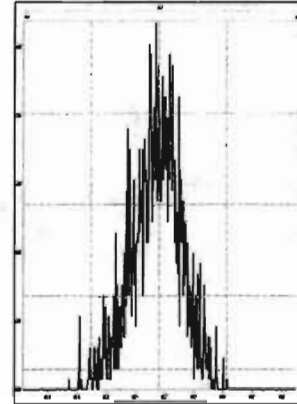
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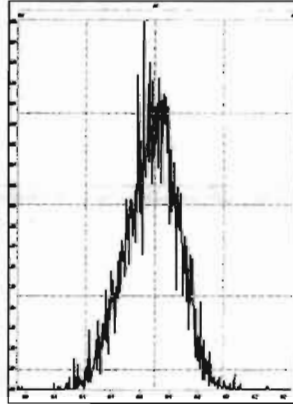
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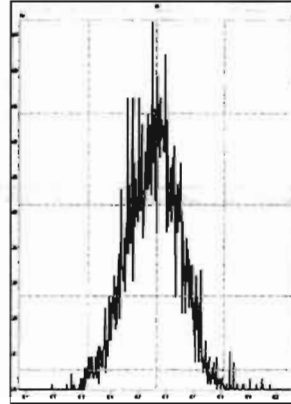
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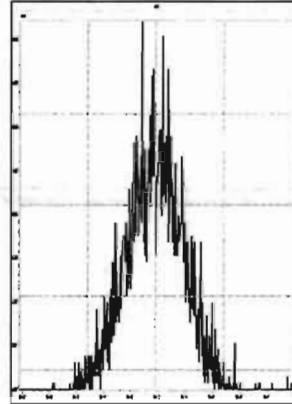
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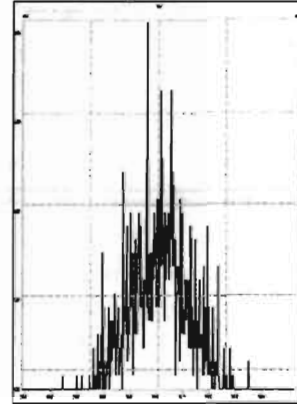
M 492.9696 R 12623



M 504.9696 R 13157



M 516.9697 R 15626



HKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201126R1-1

Reviewed By: GRB 11/30/2022

Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>Hc</u>	<u>Hc</u>
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
- Bottle position verified?		<u>Hc</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		
Integrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
GC Break <20%		<input checked="" type="checkbox"/> NA
8280 CS1 End Standard:		
- Ratios within limits, S/N <2.5x1, CS1 within 12 hours		<input checked="" type="checkbox"/> NA

Comments:
 (A) End res failed to print. manually processed following day with no changes on tune.

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-1.qld

Last Altered: Friday, November 27, 2020 13:14:10 Pacific Standard Time
Printed: Friday, November 27, 2020 13:15:05 Pacific Standard Time

HZ 11/27/2020
GRB 11/30/2020

Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	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	7.10e4	6.07e5	0.79	NO	0.950	26.07	26.05	NO	1.001	1.001	12.300	123	NO
2	2 1,2,3,7,8-PeCDD	2.28e5	4.21e5	0.63	NO	0.885	30.78	30.79	NO	1.000	1.001	61.023	122	NO
3	3 1,2,3,4,7,8-HxCDD	2.18e5	3.78e5	1.24	NO	1.02	34.12	34.12	NO	1.000	1.000	56.727	113	NO
4	4 1,2,3,6,7,8-HxCDD	2.28e5	4.77e5	1.27	NO	0.915	34.24	34.24	NO	1.000	1.000	52.317	105	NO
5	5 1,2,3,7,8,9-HxCDD	2.27e5	4.51e5	1.24	NO	0.934	34.51	34.51	NO	1.000	1.000	53.775	108	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.67e5	3.75e5	1.02	NO	0.870	38.01	38.03	NO	1.000	1.001	51.237	102	NO
7	7 OCDD	2.72e5	5.77e5	0.88	NO	0.872	40.96	40.98	NO	1.000	1.001	108.07	108	NO
8	8 2,3,7,8-TCDF	8.30e4	1.06e6	0.73	NO	0.824	25.35	25.37	NO	1.000	1.001	9.4856	94.9	NO
9	9 1,2,3,7,8-PeCDF	4.26e5	7.81e5	1.61	NO	0.963	29.52	29.53	NO	1.000	1.001	56.640	113	NO
10	10 2,3,4,7,8-PeCDF	4.67e5	7.78e5	1.56	NO	1.07	30.59	30.59	NO	1.000	1.000	56.185	112	NO
11	11 1,2,3,4,7,8-HxCDF	2.55e5	5.59e5	1.18	NO	0.953	33.21	33.22	NO	1.000	1.000	47.888	95.8	NO
12	12 1,2,3,6,7,8-HxCDF	2.82e5	5.92e5	1.21	NO	1.01	33.33	33.35	NO	1.000	1.000	47.215	94.4	NO
13	13 2,3,4,6,7,8-HxCDF	2.55e5	5.42e5	1.19	NO	0.991	34.00	34.01	NO	1.000	1.001	47.375	94.8	NO
14	14 1,2,3,7,8,9-HxCDF	2.09e5	4.65e5	1.19	NO	0.951	34.99	35.02	NO	1.000	1.001	47.271	94.5	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.93e5	4.15e5	1.00	NO	0.999	36.57	36.59	NO	1.000	1.001	46.633	93.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.55e5	2.90e5	1.02	NO	1.12	38.63	38.65	NO	1.000	1.001	47.509	95.0	NO
17	17 OCDF	2.93e5	6.79e5	0.85	NO	0.868	41.27	41.26	NO	1.000	1.000	99.291	99.3	NO
18	18 13C-2,3,7,8-TCDD	6.07e5	5.43e5	0.83	NO	1.11	26.03	26.04	NO	1.030	1.030	100.83	101	NO
19	19 13C-1,2,3,7,8-PeCDD	4.21e5	5.43e5	0.64	NO	0.859	30.74	30.77	NO	1.216	1.218	90.355	90.4	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.78e5	5.93e5	1.32	NO	0.700	34.10	34.11	NO	1.014	1.014	91.204	91.2	NO
21	21 13C-1,2,3,6,7,8-HxCDD	4.77e5	5.93e5	1.31	NO	0.833	34.24	34.23	NO	1.018	1.018	96.562	96.6	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.51e5	5.93e5	1.25	NO	0.762	34.48	34.49	NO	1.025	1.026	99.799	99.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.75e5	5.93e5	1.05	NO	0.650	37.96	38.01	NO	1.129	1.130	97.477	97.5	NO
24	24 13C-OCDD	5.77e5	5.93e5	0.92	NO	0.539	40.92	40.96	NO	1.217	1.218	180.52	90.3	NO
25	25 13C-2,3,7,8-TCDF	1.06e6	1.04e6	0.77	NO	0.981	25.35	25.34	NO	1.003	1.003	104.40	104	NO
26	26 13C-1,2,3,7,8-PeCDF	7.81e5	1.04e6	1.61	NO	0.792	29.47	29.51	NO	1.166	1.168	95.168	95.2	NO
27	27 13C-2,3,4,7,8-PeCDF	7.78e5	1.04e6	1.64	NO	0.778	30.53	30.59	NO	1.208	1.210	96.523	96.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.59e5	5.93e5	0.50	NO	0.954	33.19	33.21	NO	0.987	0.987	98.935	98.9	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.92e5	5.93e5	0.50	NO	1.01	33.32	33.33	NO	0.991	0.991	99.232	99.2	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.42e5	5.93e5	0.50	NO	0.921	33.99	33.99	NO	1.011	1.011	99.310	99.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.65e5	5.93e5	0.51	NO	0.803	34.99	34.99	NO	1.040	1.041	97.643	97.6	NO

Dataset: U:\VG12.PRO\Results\201126R1\201126R1-1.qld

Last Altered: Friday, November 27, 2020 13:14:10 Pacific Standard Time
Printed: Friday, November 27, 2020 13:15:05 Pacific Standard Time

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	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	4.15e5	5.93e5	0.41	NO	0.735	36.55	36.57	NO	1.087	1.087	95.215	95.2	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.90e5	5.93e5	0.42	NO	0.568	38.59	38.63	NO	1.147	1.149	86.184	86.2	NO
34	34 13C-OCDF	6.79e5	5.93e5	0.85	NO	0.629	41.21	41.26	NO	1.225	1.227	181.94	91.0	NO
35	35 37Cl-2,3,7,8-TCDD	7.06e4	5.43e5			1.09	26.03	26.05	NO	1.030	1.031	11.952	120	NO
36	36 13C-1,2,3,4-TCDD	5.43e5	5.43e5	0.82	NO	1.00	25.37	25.27	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.04e6	1.04e6	0.79	NO	1.00	23.87	23.76	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	5.93e5	5.93e5	0.49	NO	1.00	33.71	33.63	NO	1.000	1.000	100.00	100	YES

Dataset: Untitled

Last Altered: Friday, November 27, 2020 10:23:33 Pacific Standard Time

Printed: Friday, November 27, 2020 10:24:32 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_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

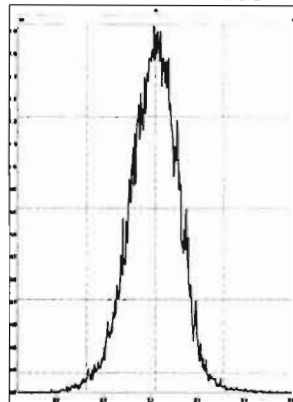
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	201126R1_1	ST201126R1_1 1613 CS3 20F1105	26-Nov-20	08:35:39
2	201126R1_2	TCDF CPSM	26-Nov-20	09:21:33
3	201126R1_3	BOK0190-BS1 OPR 10	26-Nov-20	10:06:27
4	201126R1_4	SOLVENT BLANK	26-Nov-20	10:51:21
5	201126R1_5	BOK0190-BLK1 Method Blank 10	26-Nov-20	11:36:17
6	201126R1_6	2002375-01 USMPDI-045SC-A-01-02-201030 ...	26-Nov-20	12:21:08
7	201126R1_7	2002375-02 USMPDI-045SC-A-02-03-201030 ...	26-Nov-20	13:05:59
8	201126R1_8	2002375-03 USMPDI-045SC-A-03-04-201030 ...	26-Nov-20	13:50:51
9	201126R1_9	2002375-04 USMPDI-045SC-A-04-05-201030 ...	26-Nov-20	14:35:42
10	201126R1_10	2002375-05 USMPDI-047SC-A-01-02-201030 ...	26-Nov-20	15:20:34
11	201126R1_11	2002375-06 USMPDI-047SC-A-02-03-201030 ...	26-Nov-20	16:05:26
12	201126R1_12	2002375-07 USMPDI-047SC-A-03-04-201030 ...	26-Nov-20	16:50:17
13	201126R1_13	2002375-08 USMPDI-047SC-A-04-05-201030 ...	26-Nov-20	17:35:08
14	201126R1_14	2002375-09 USMPDI-1047SC-A-02-03-20103...	26-Nov-20	18:20:01
15	201126R1_15	2002374-05@10X USMPDI-054SC-A-05-06-2...	26-Nov-20	19:04:52

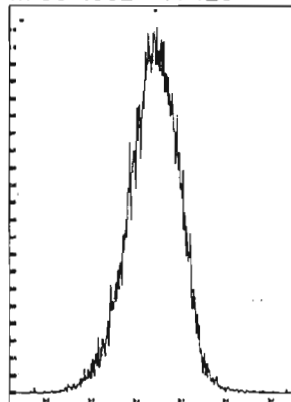
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:31:31 Pacific Standard Time

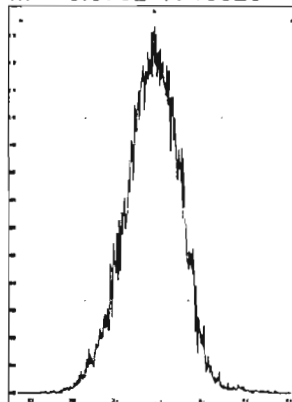
M 292.9824 R 11909



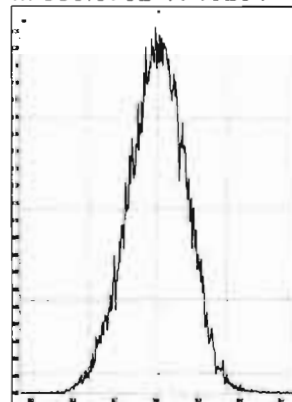
M 304.9824 R 12377



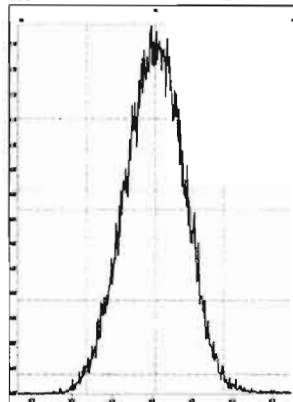
M 318.9792 R 10826



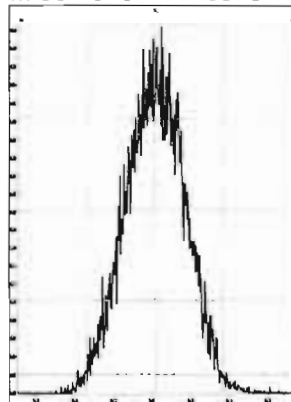
M 330.9792 R 10204



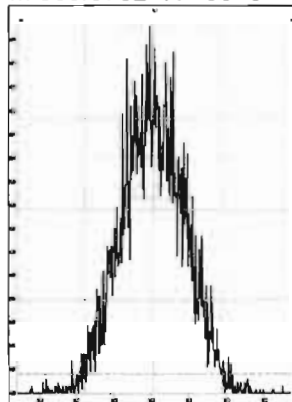
M 342.9792 R 10078



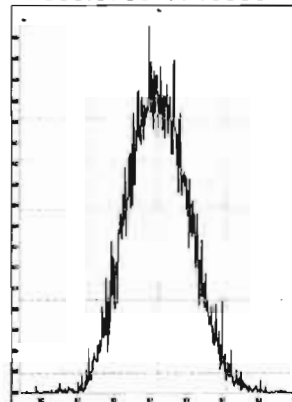
M 354.9792 R 10373



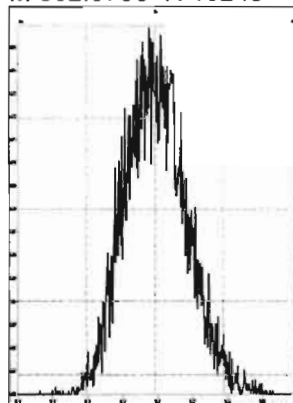
M 366.9792 R 10078



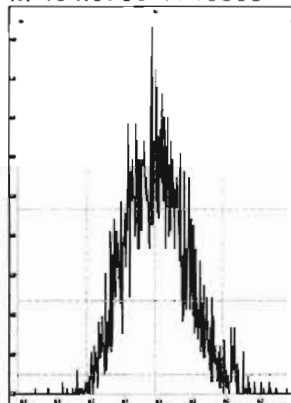
M 380.9760 R 10330



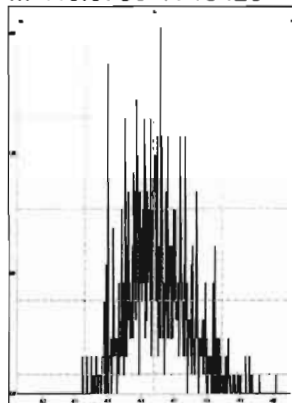
M 392.9760 R 10243



M 404.9760 R 10503



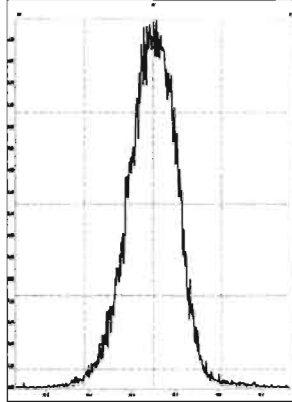
M 416.9760 R 15428



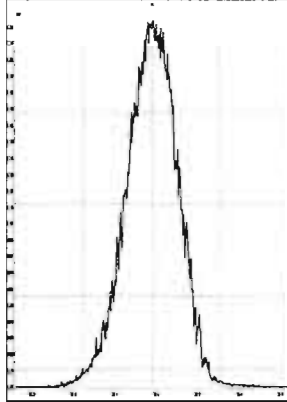
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:32:50 Pacific Standard Time

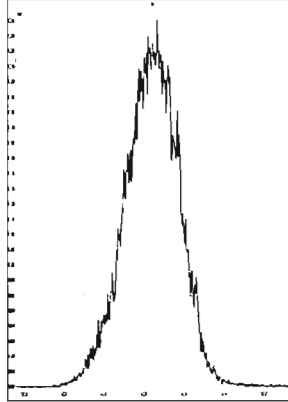
M 318.9792 R 12499



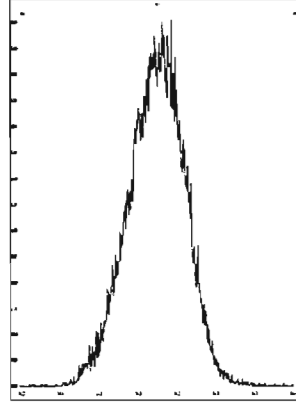
M 330.9792 R 11417



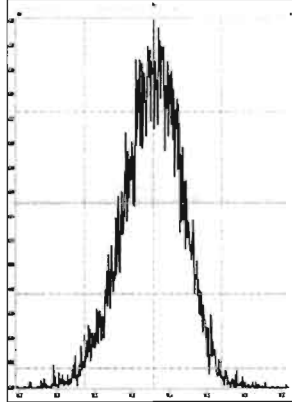
M 342.9792 R 10969



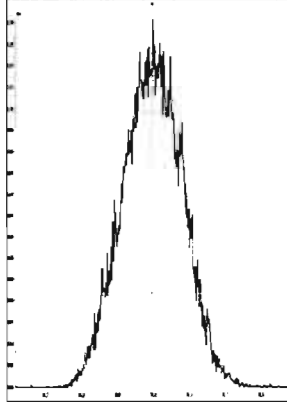
M 354.9792 R 10205



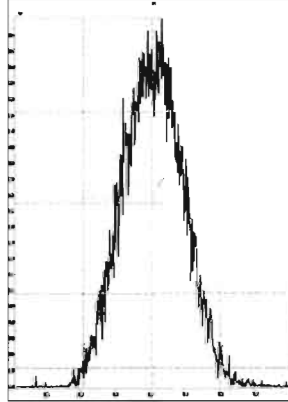
M 366.9792 R 10039



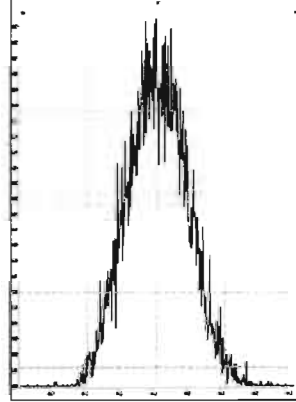
M 380.9760 R 10205



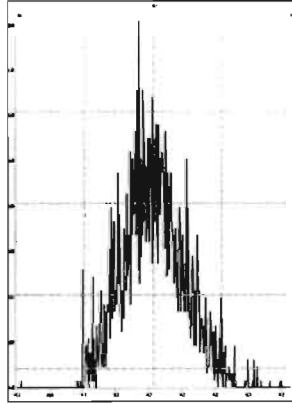
M 392.9760 R 10503



M 404.9760 R 10288



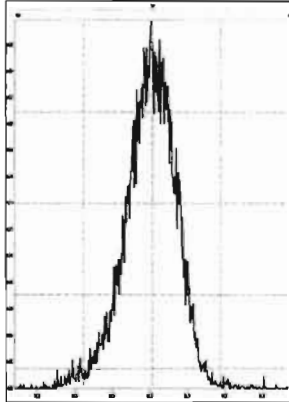
M 416.9760 R 11680



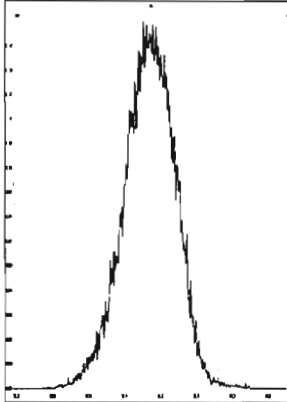
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:33:46 Pacific Standard Time

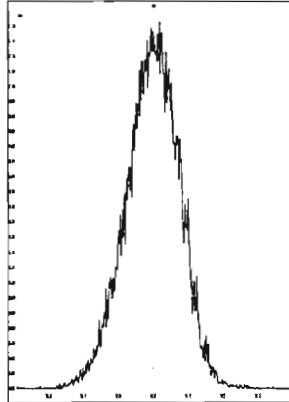
M 366.9792 R 12254



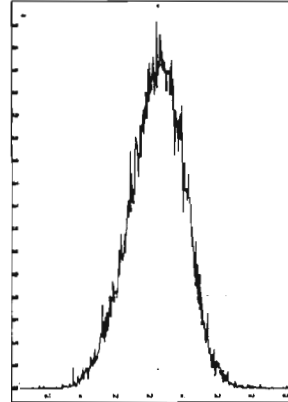
M 380.9760 R 11365



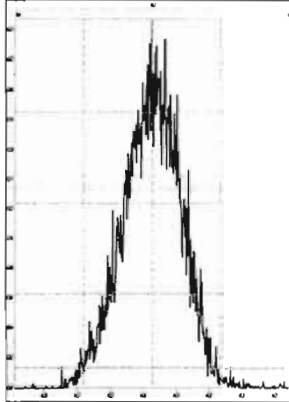
M 392.9760 R 11311



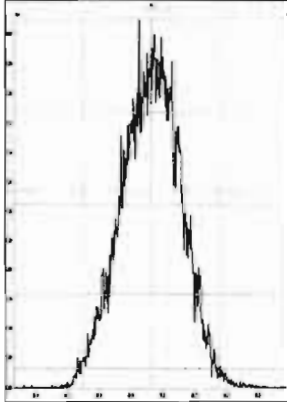
M 404.9760 R 10871



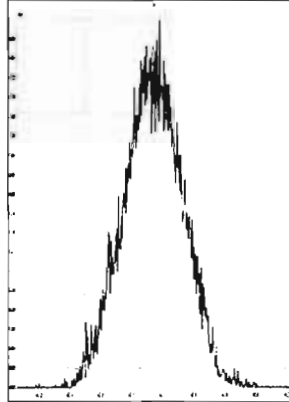
M 416.9760 R 11061



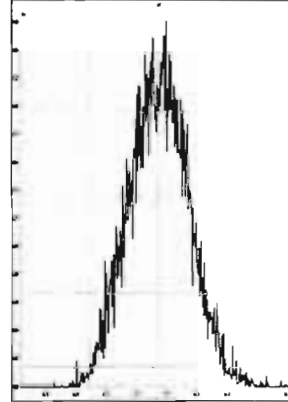
M 430.9728 R 10457



M 442.9728 R 10419



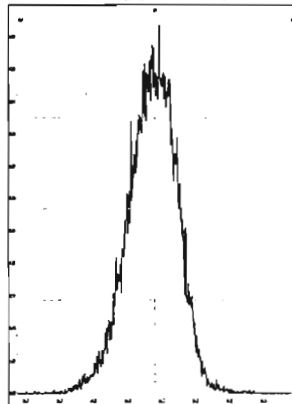
M 454.9728 R 10331



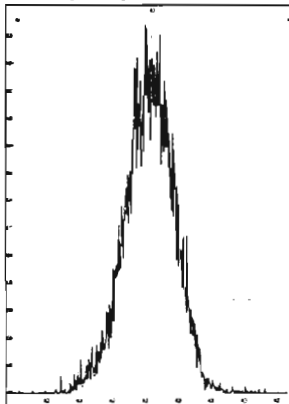
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Printed: Thursday, November 26, 2020 08:34:11 Pacific Standard Time

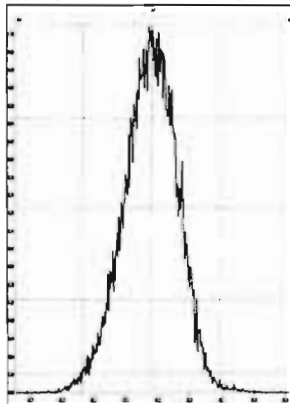
M 404.9760 R 11740



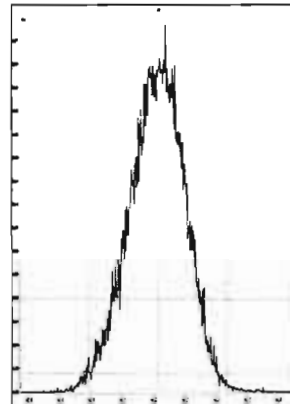
M 416.9760 R 12438



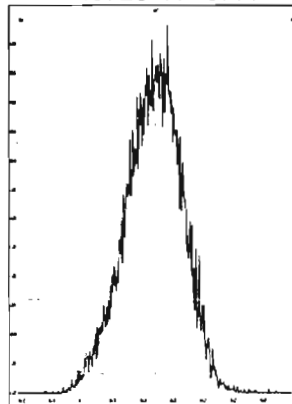
M 430.9728 R 10967



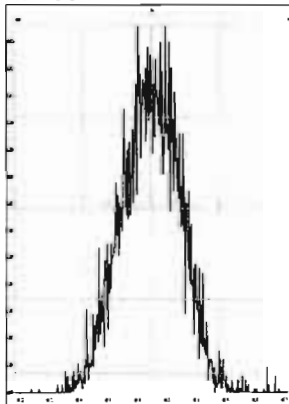
M 442.9728 R 10870



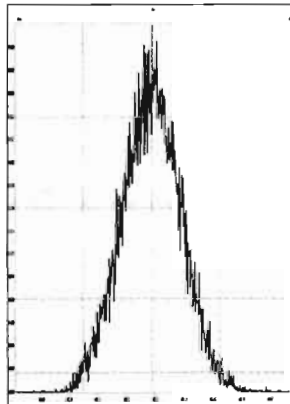
M 454.9728 R 10777



M 466.9728 R 10776



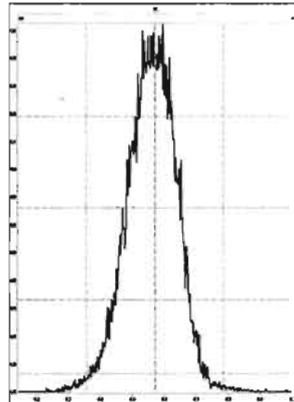
M 480.9696 R 10506



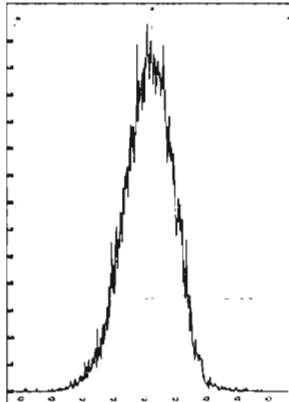
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, November 26, 2020 08:34:33 Pacific Standard Time

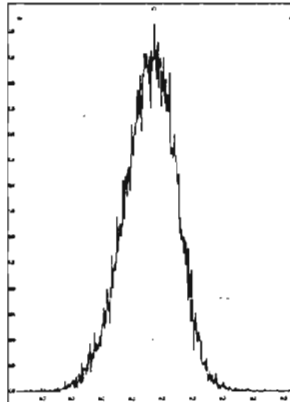
M 430.9728 R 12254



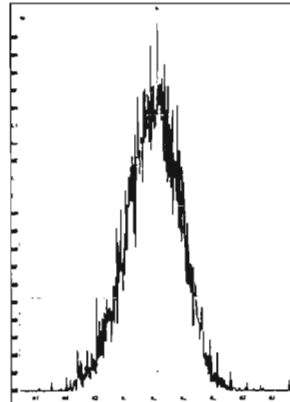
M 442.9728 R 11850



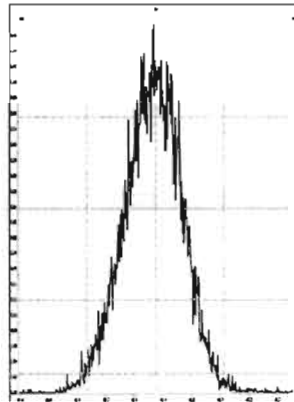
M 454.9728 R 11110



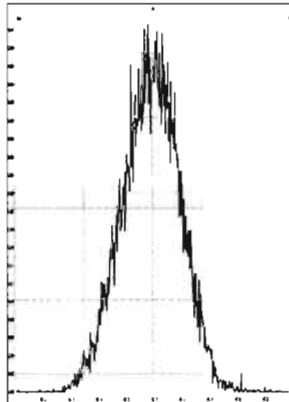
M 466.9728 R 11575



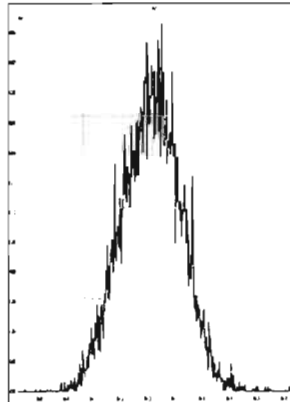
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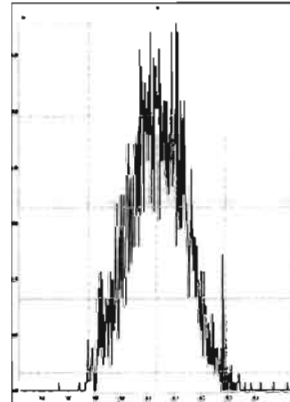
M 492.9696 R 10505



M 504.9696 R 10822



M 516.9697 R 11161



Dataset: Untitled

Last Altered: Thursday, November 26, 2020 9:23:36 AM Pacific Standard Time

Printed: Thursday, November 26, 2020 9:25:13 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

#	Name	RT
1	1,3,6,8-TCDD (First)	22.22
2	1,2,8,9-TCDD (Last)	26.96
3	1,2,4,7,9-PeCDD (First)	28.51
4	1,2,3,8,9-PeCDD (Last)	31.15
5	1,2,4,6,7,9-HxCDD (First)	32.48
6	1,2,3,7,8,9-HxCDD (Last)	34.51
7	1,2,3,4,6,7,9-HpCDD (First)	36.97
8	1,2,3,4,6,7,8-HpCDD (Last)	38.03
9	1,3,6,8-TCDF (First)	20.02
10	1,2,8,9-TCDF (Last)	27.27
11	1,3,4,6,8-PeCDF (First)	26.85
12	1,2,3,8,9-PeCDF (Last)	31.52
13	1,2,3,4,6,8-HxCDF (First)	31.95
14	1,2,3,7,8,9-HxCDF (Last)	35.02
15	1,2,3,4,6,7,8-HpCDF (First)	36.59
16	1,2,3,4,7,8,9-HpCDF (Last)	38.66

Dataset: Untitled

Last Altered: Thursday, November 26, 2020 9:23:36 AM Pacific Standard Time
Printed: Thursday, November 26, 2020 9:25:13 AM Pacific Standard Time

GRB 11/26/2020

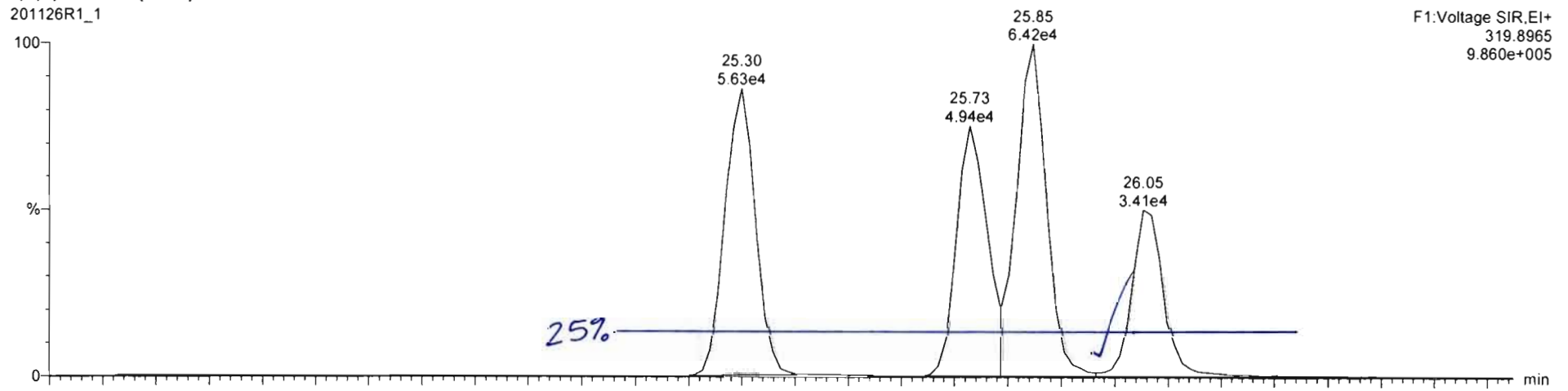
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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 13:36:10

HW 11.30.2020

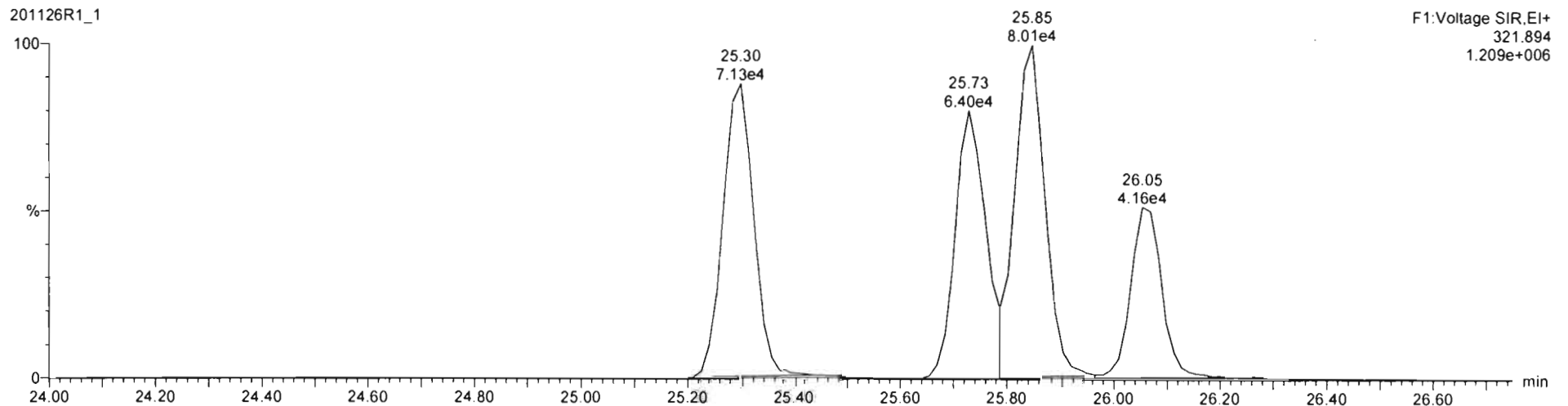
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1,3,6,8-TCDD (First)

201126R1_1



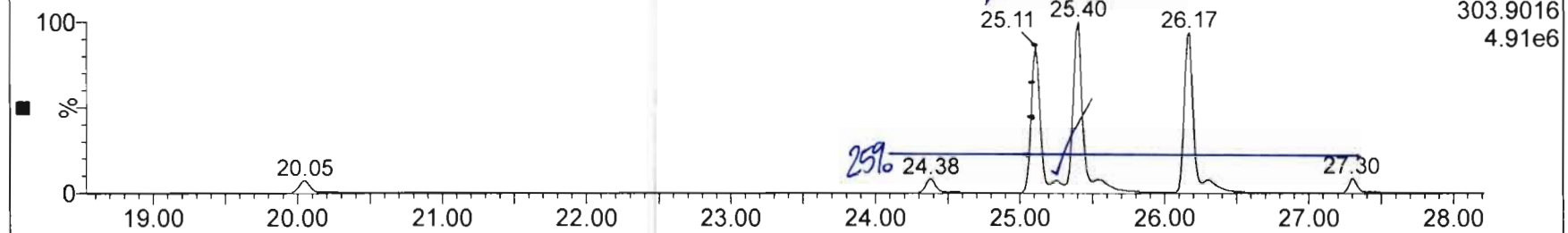
201126R1_1



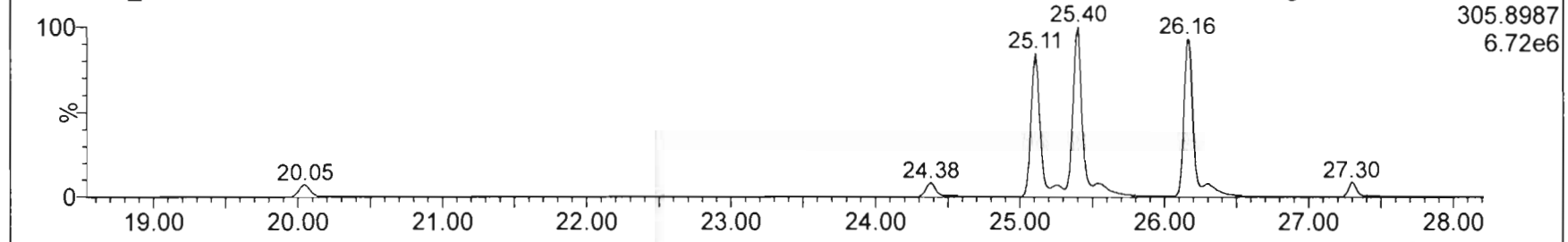
GPB 11/26/2020

TCDF CPSM QC

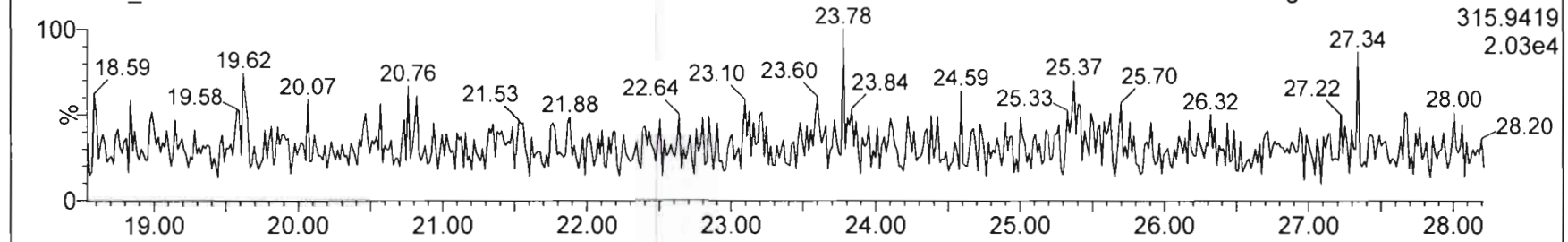
201126R1_2



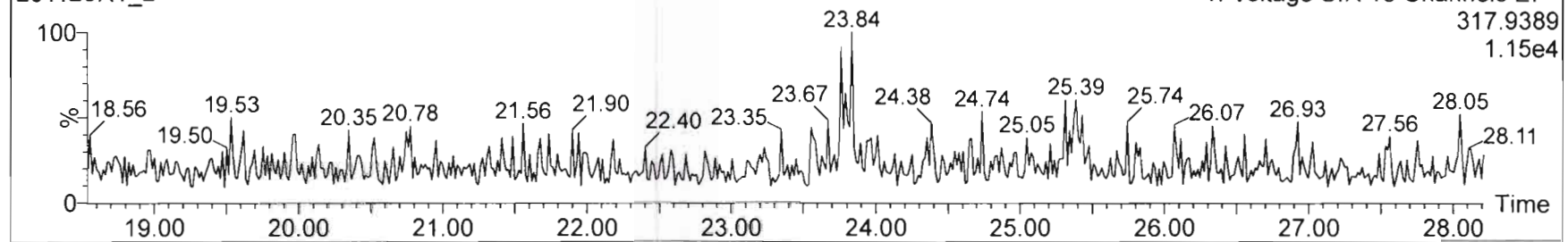
201126R1_2



201126R1_2



201126R1_2



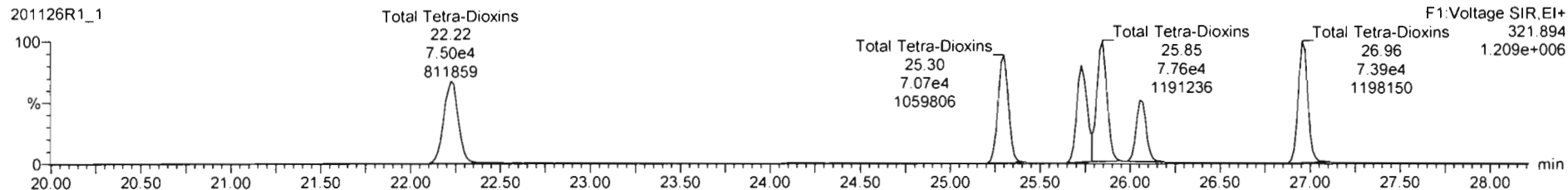
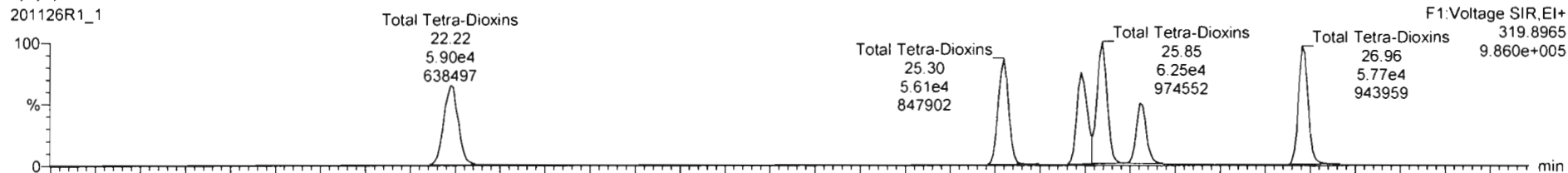
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Last Altered: Thursday, November 26, 2020 09:25:53 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

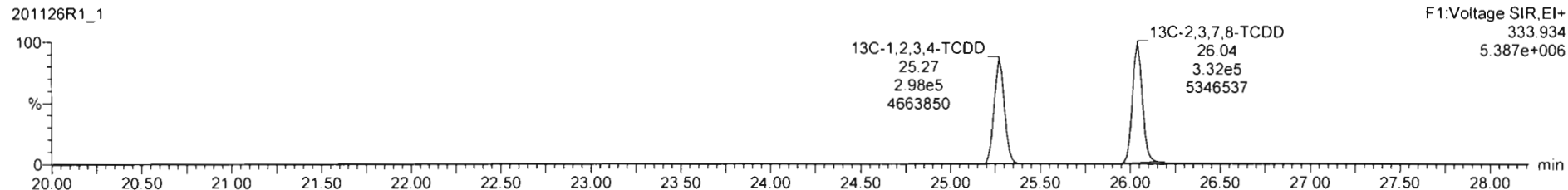
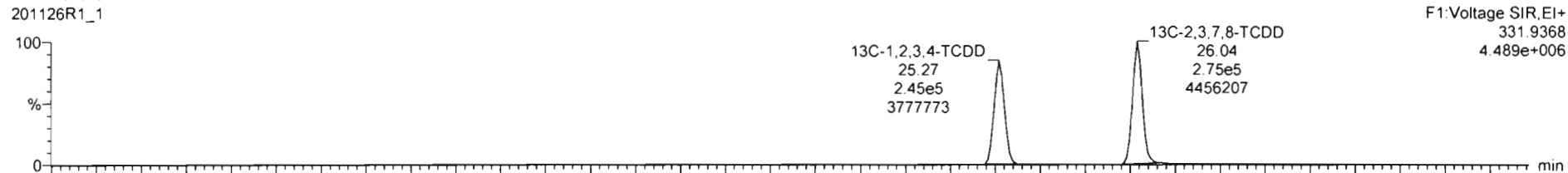
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Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

2,3,7,8-TCDD



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



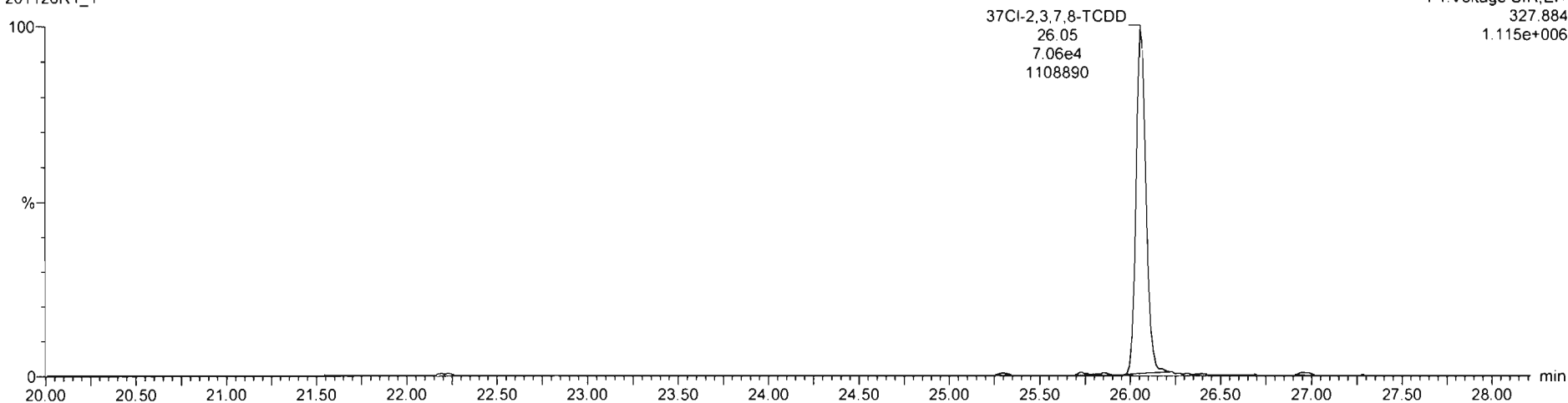
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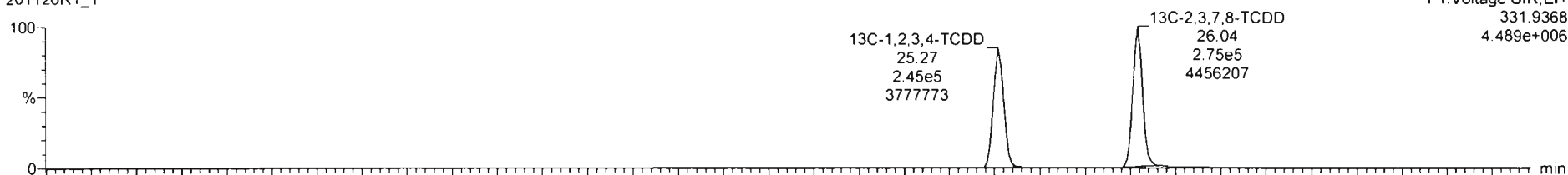
37Cl-2,3,7,8-TCDD

201126R1_1

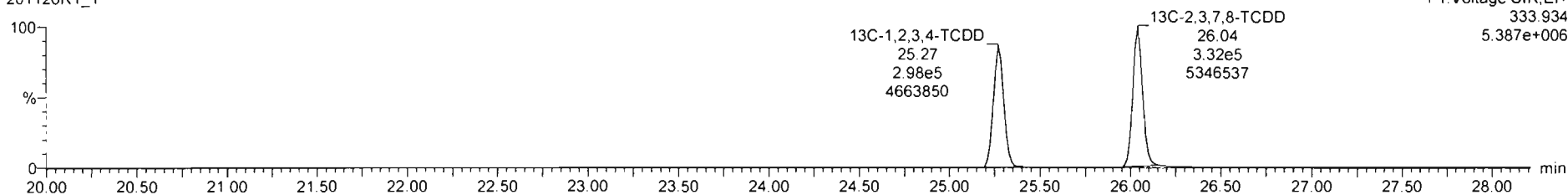


13C-1,2,3,4-TCDD

201126R1_1



201126R1_1



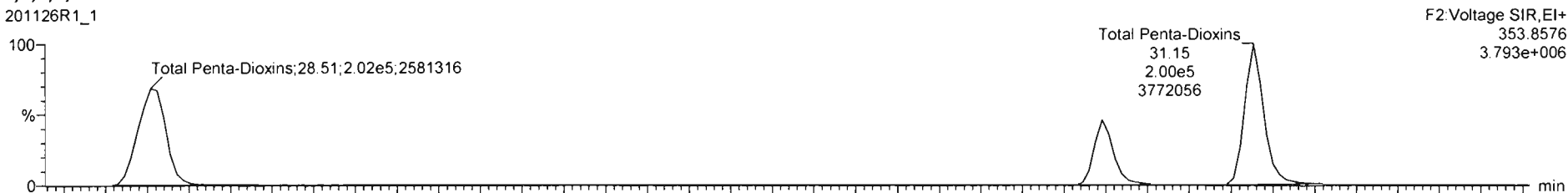
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Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

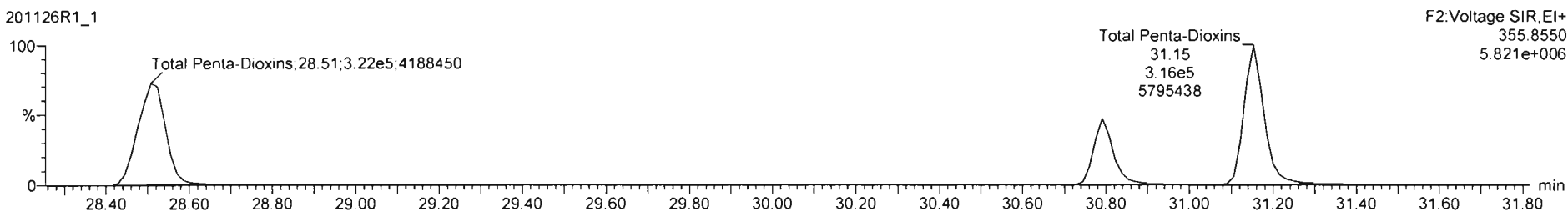
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1,2,3,7,8-PeCDD

201126R1_1

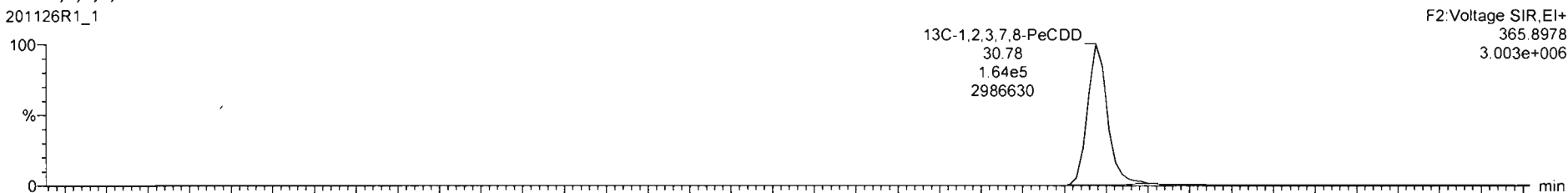


201126R1_1

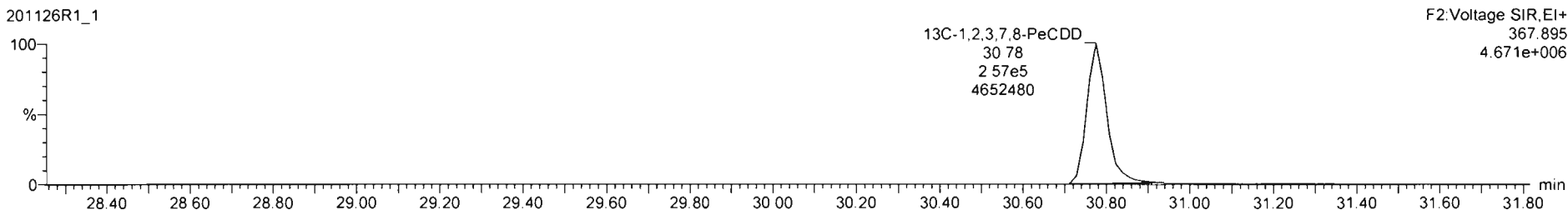


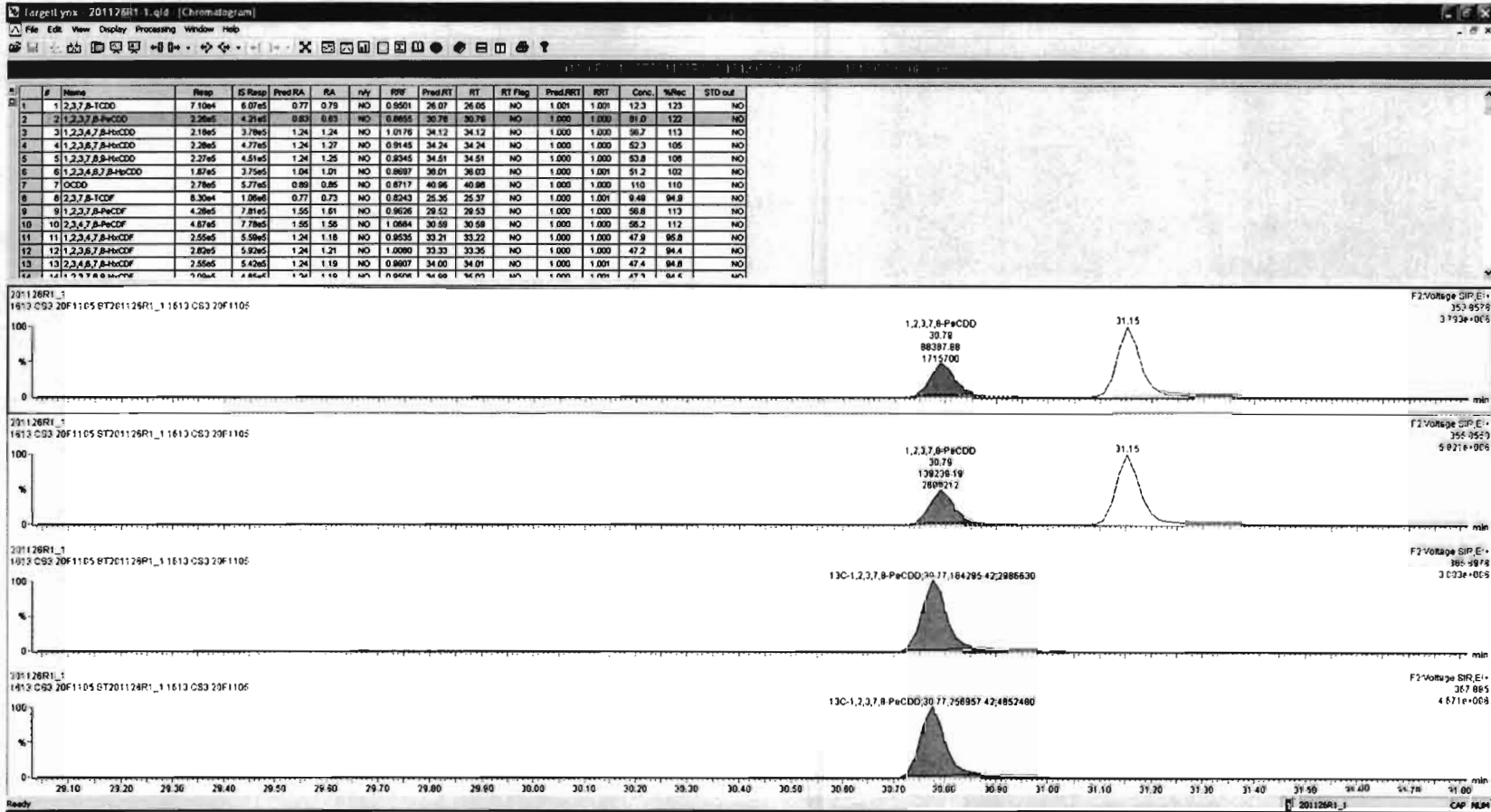
13C-1,2,3,7,8-PeCDD

201126R1_1



201126R1_1





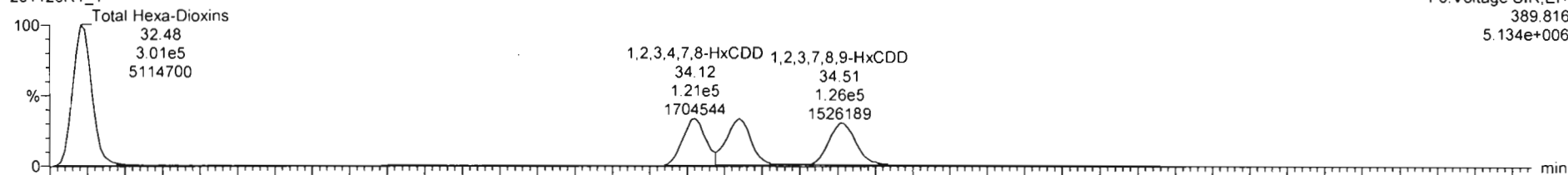
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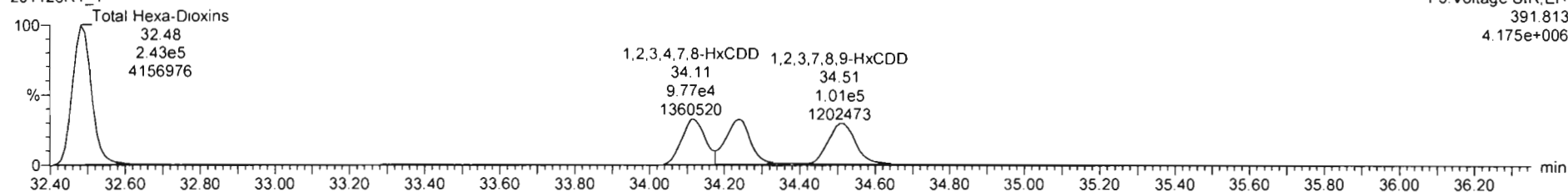
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1,2,3,4,7,8-HxCDD

201126R1_1

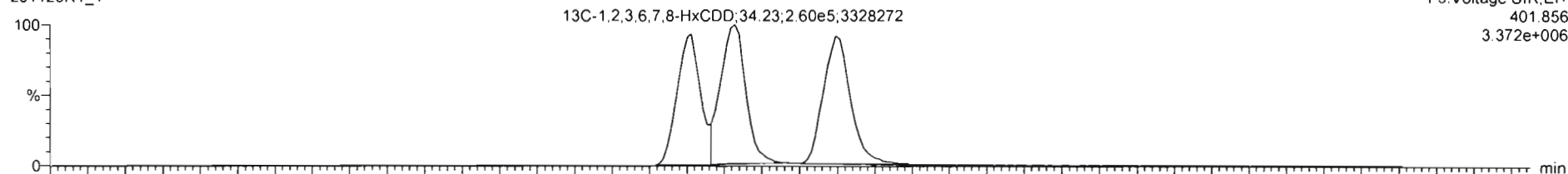


201126R1_1

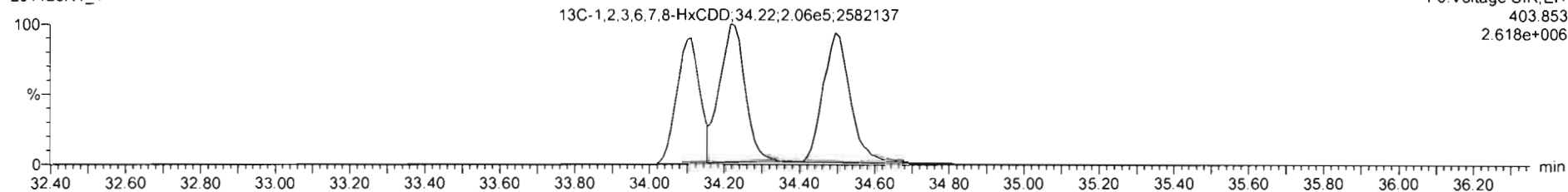


13C-1,2,3,4,7,8-HxCDD

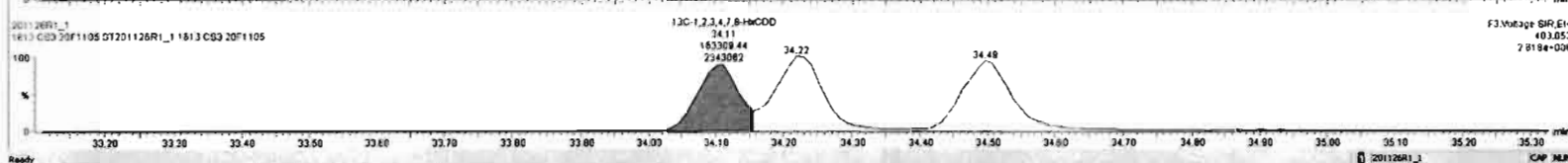
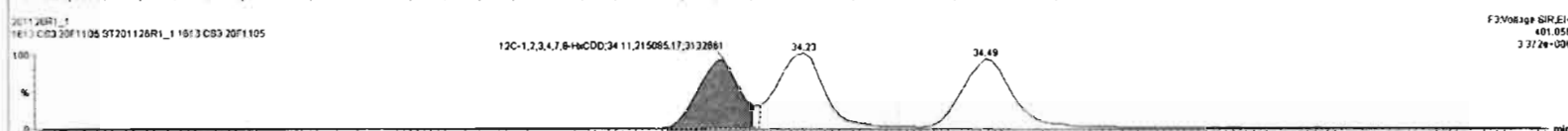
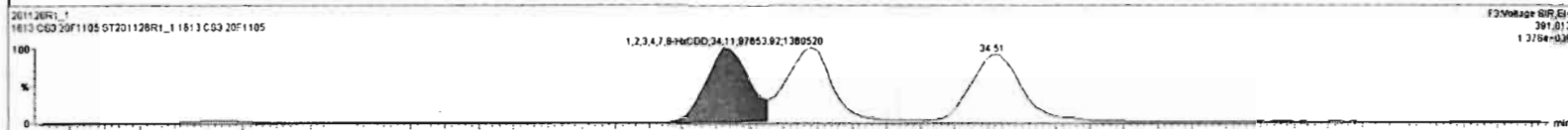
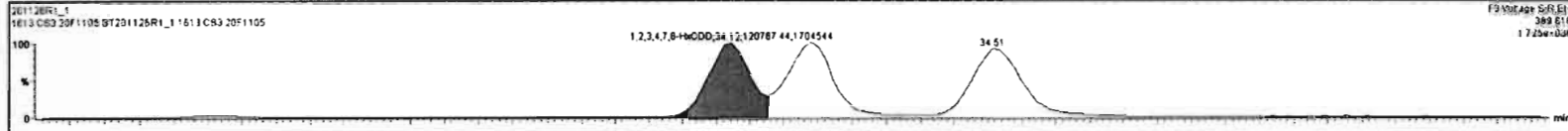
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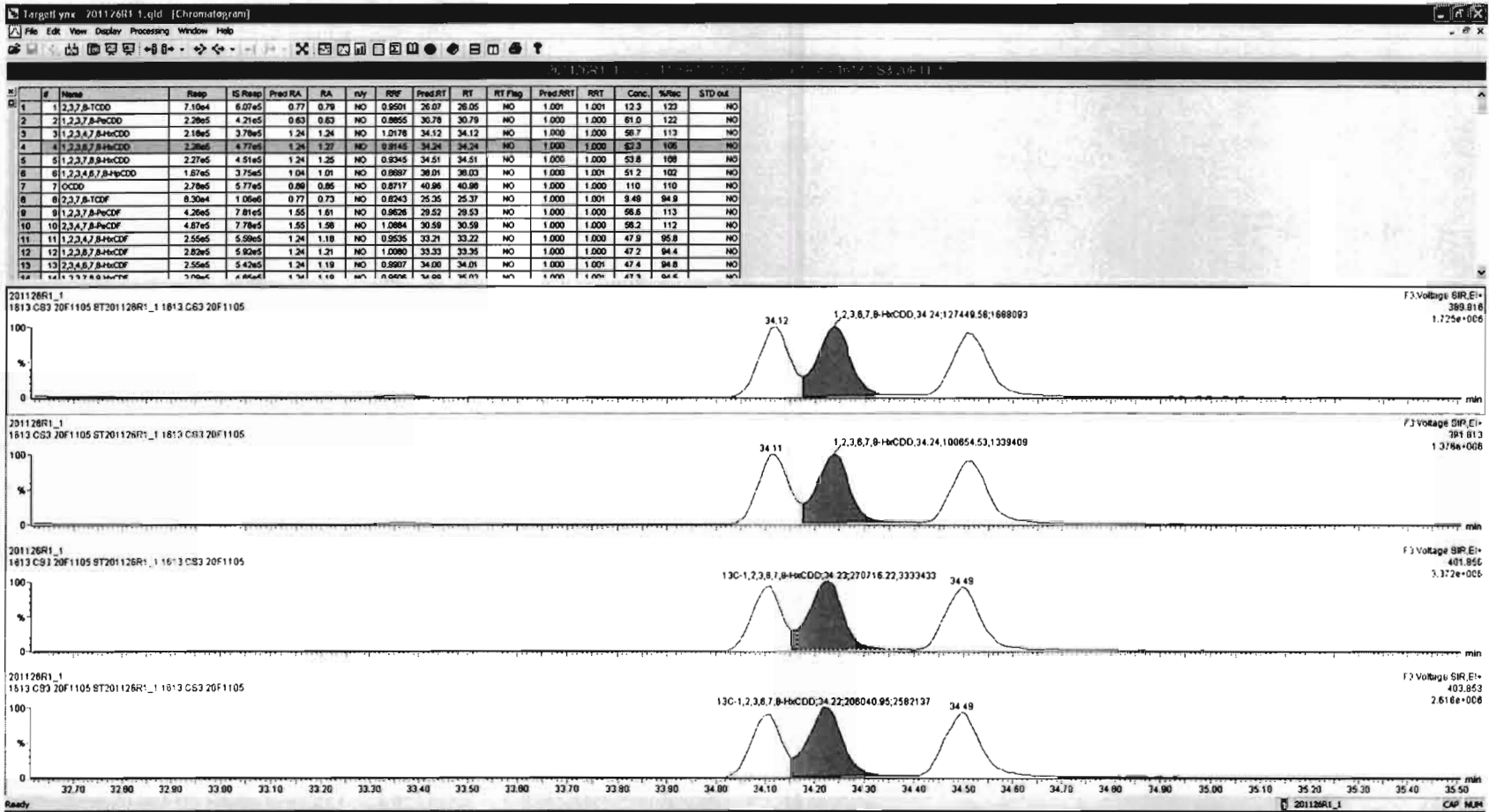


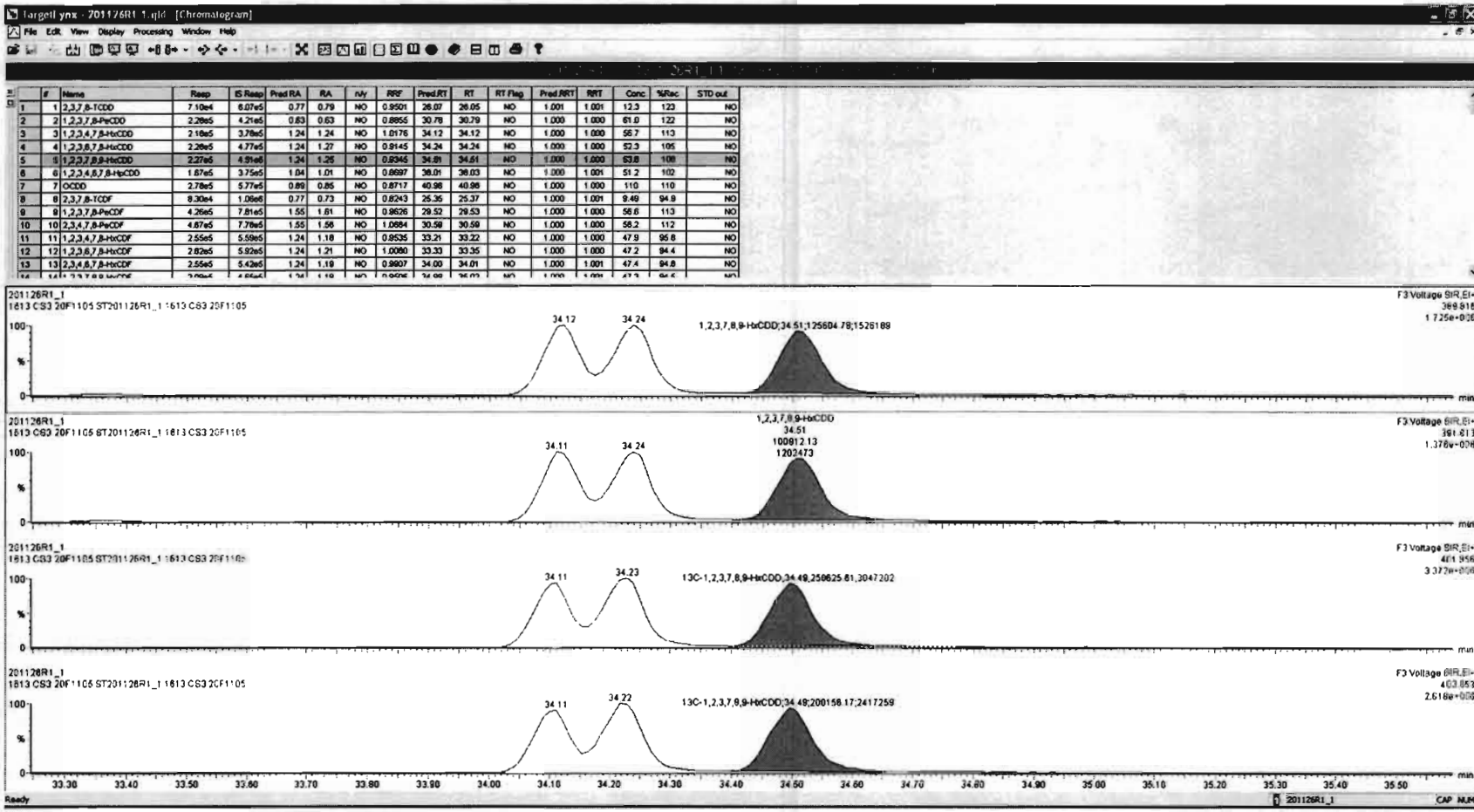
201126R1_1



#	Name	Resp	S Resp	Pred RA	RA	dy	RF	Pred RT	RT	RT Flag	Pred RT1	RT1	Conc	%Rec	STD out
1	1,2,3,7,8-TCDF	7.10e4	8.07e5	0.77	0.78	NO	0.9501	26.07	26.06	NO	1.001	1.001	12.3	122	NO
2	1,2,3,7,8-PeCDD	2.26e5	4.21e5	0.63	0.63	NO	0.8655	30.76	30.79	NO	1.000	1.000	81.0	122	NO
3	1,2,3,4,7,8-HxCDD	2.10e5	3.78e5	1.34	1.24	NO	1.0176	34.32	34.12	NO	1.000	1.000	96.7	113	NO
4	1,2,3,6,7,8-HxCDD	2.26e5	4.77e5	1.24	1.27	NO	0.9145	34.24	34.24	NO	1.000	1.000	52.3	105	NO
5	1,2,3,7,8-HxCDD	2.27e5	4.51e5	1.24	1.25	NO	0.9345	34.51	34.51	NO	1.000	1.000	53.6	108	NO
6	1,2,3,4,6,7,8-HpCDD	1.67e5	3.75e5	1.04	1.01	NO	0.8667	38.01	38.03	NO	1.000	1.001	91.2	102	NO
7	OCDD	2.76e5	3.77e5	0.89	0.85	NO	0.8717	40.86	40.86	NO	1.000	1.000	110	110	NO
8	1,2,3,7,8-TCDF	8.20e4	1.85e5	0.77	0.73	NO	0.8243	25.35	25.37	NO	1.000	1.001	9.49	94.9	NO
9	1,2,3,7,8-PeCDF	4.26e5	7.81e5	1.55	1.81	NO	0.9628	29.52	29.53	NO	1.000	1.000	56.8	113	NO
10	1,2,3,4,7,8-PeCDF	4.87e5	7.78e5	1.55	1.56	NO	1.0064	30.58	30.58	NO	1.000	1.000	96.2	112	NO
11	1,2,3,4,7,8-HxCDF	2.55e5	5.58e5	1.24	1.18	NO	0.9535	33.21	33.22	NO	1.000	1.000	47.9	95.8	NO
12	1,2,3,6,7,8-HxCDF	2.82e5	5.87e5	1.24	1.21	NO	1.0080	33.33	33.35	NO	1.000	1.000	47.2	94.4	NO
13	1,2,3,4,6,7,8-HpCDF	2.55e5	5.42e5	1.24	1.19	NO	0.9907	34.00	34.01	NO	1.000	1.001	47.4	94.8	NO







Dataset: Untitled

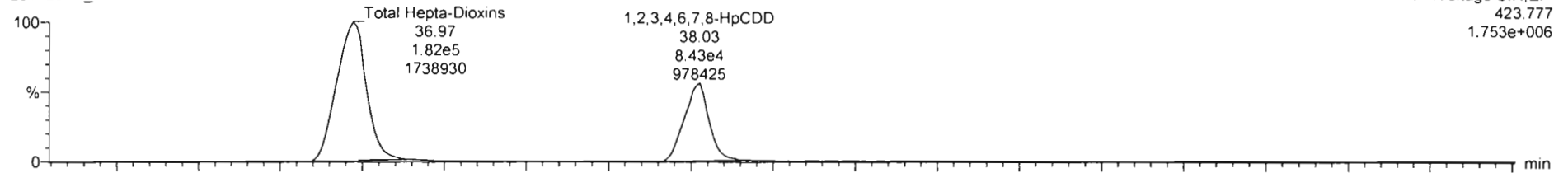
Last Altered: Thursday, November 26, 2020 09:25:53 Pacific Standard Time

Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

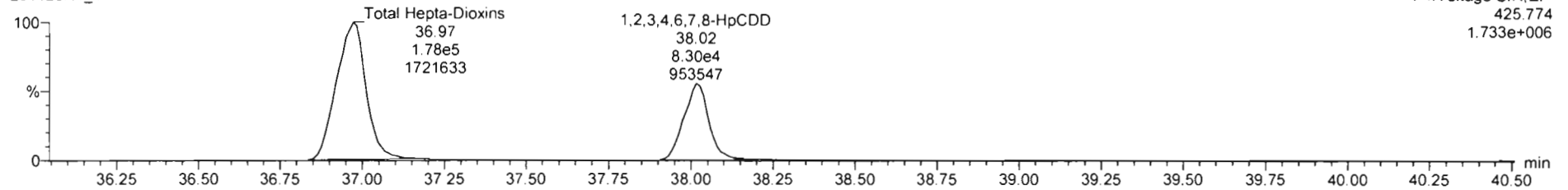
Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

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

201126R1_1

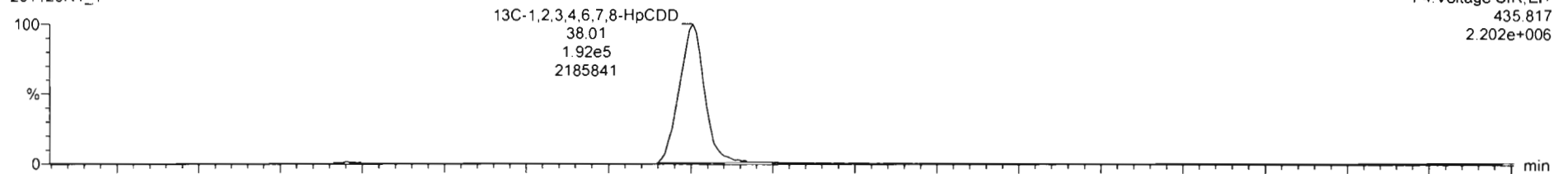


201126R1_1

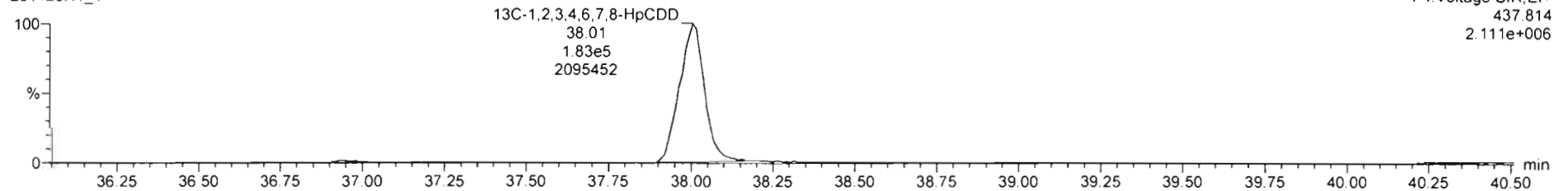


13C-1,2,3,4,6,7,8-HpCDD

201126R1_1



201126R1_1



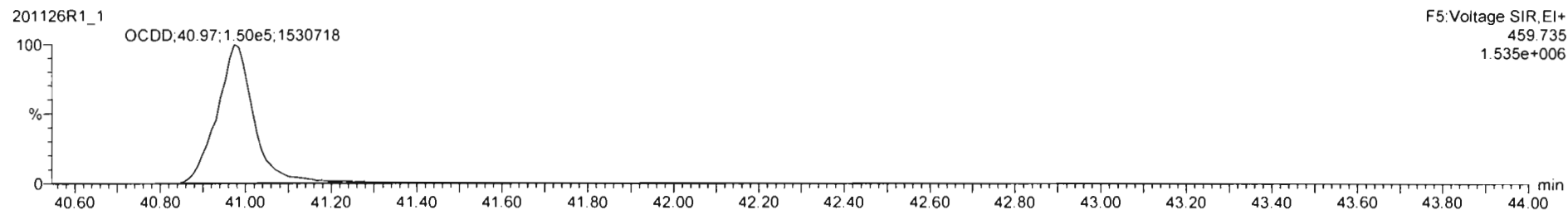
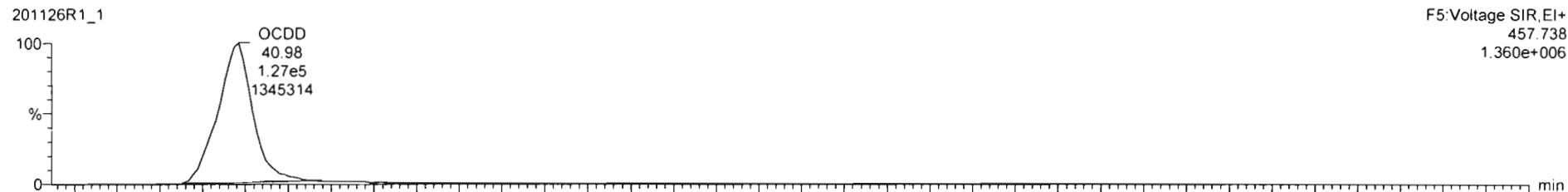
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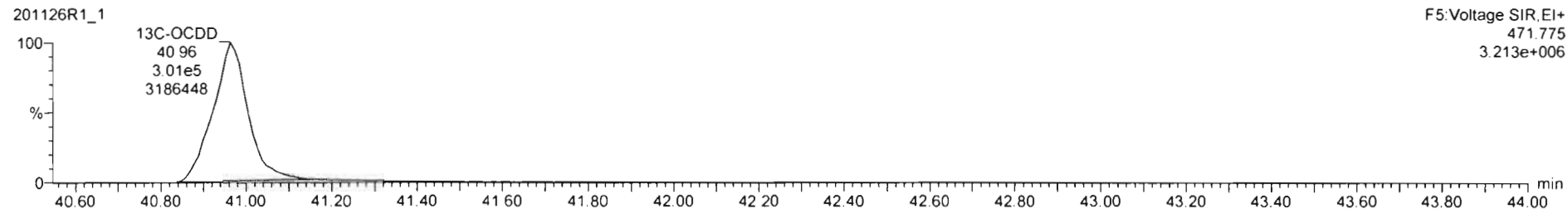
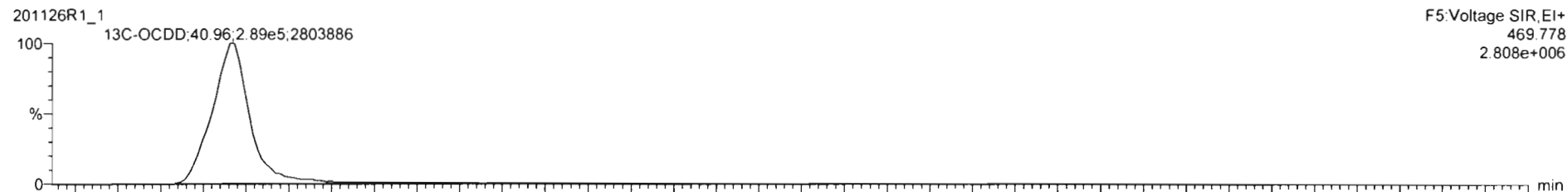
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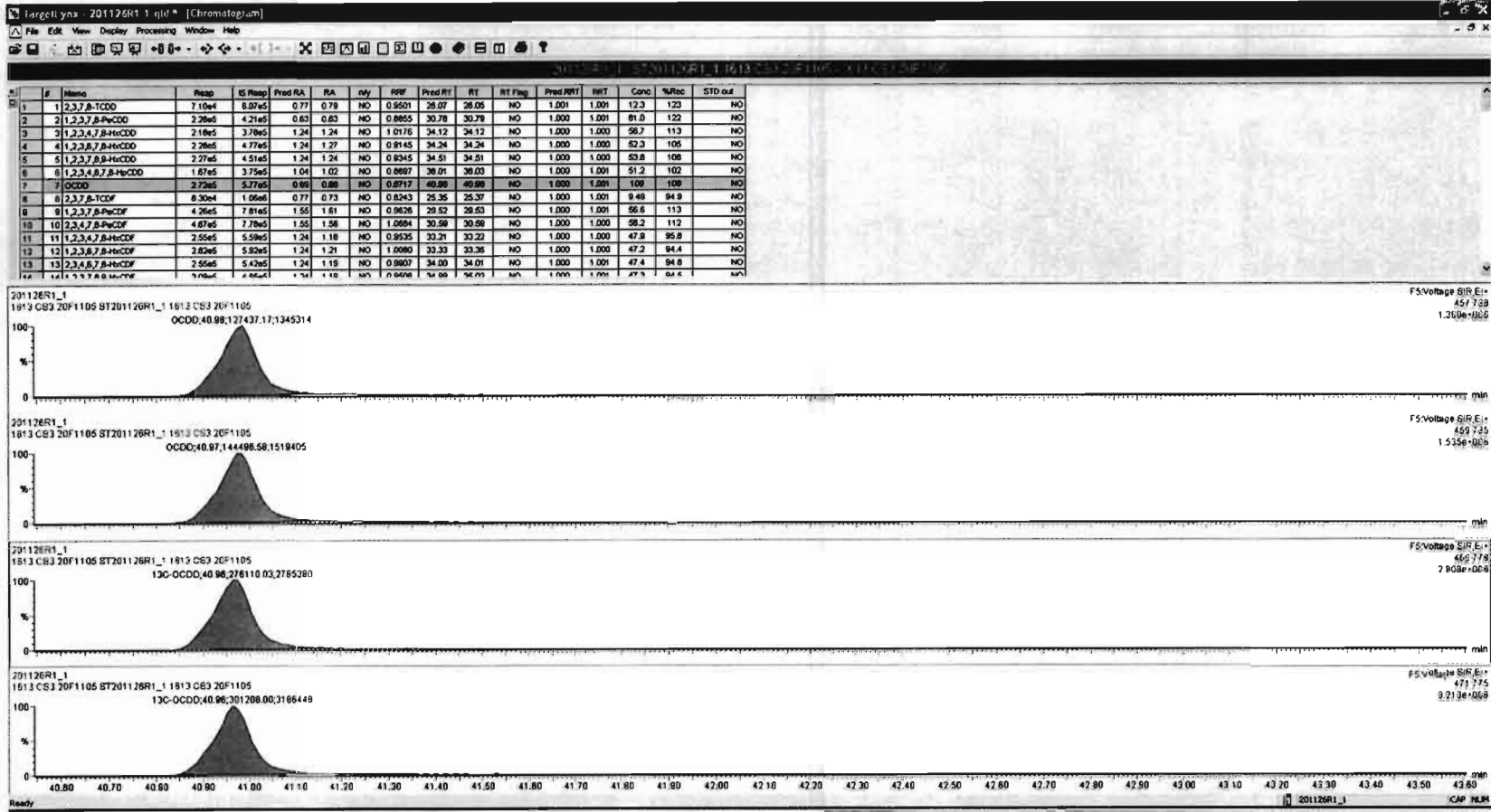
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OCDD



13C-OCDD



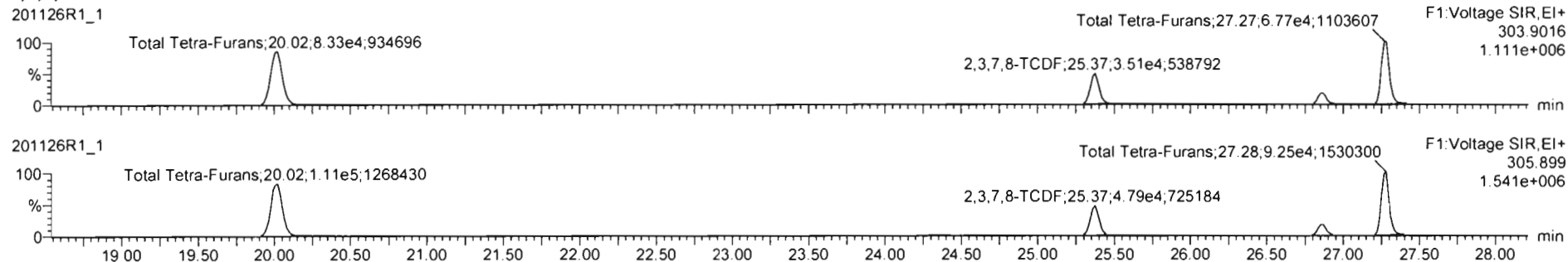


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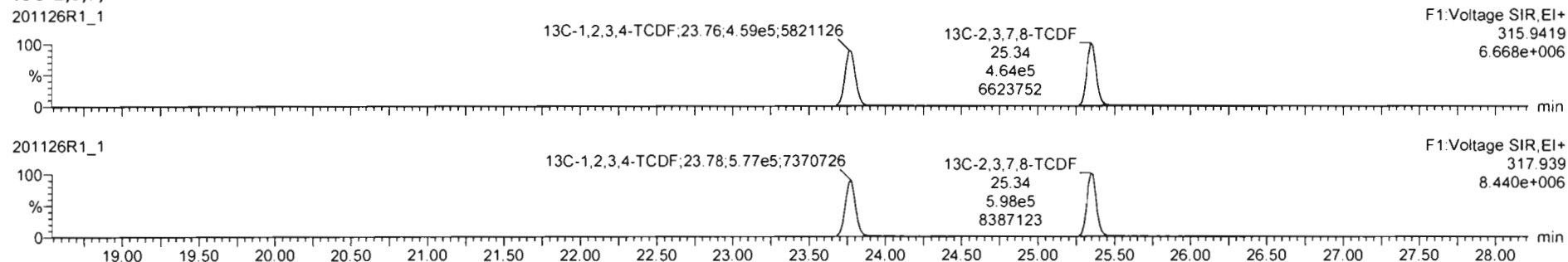
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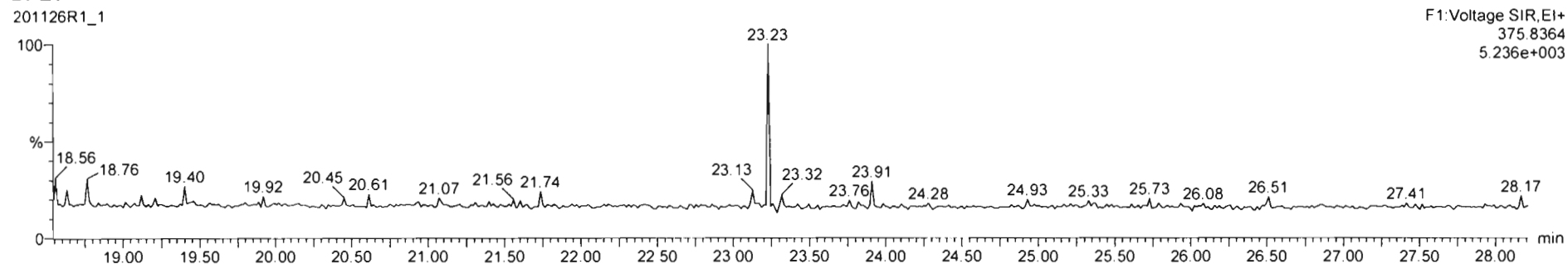
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

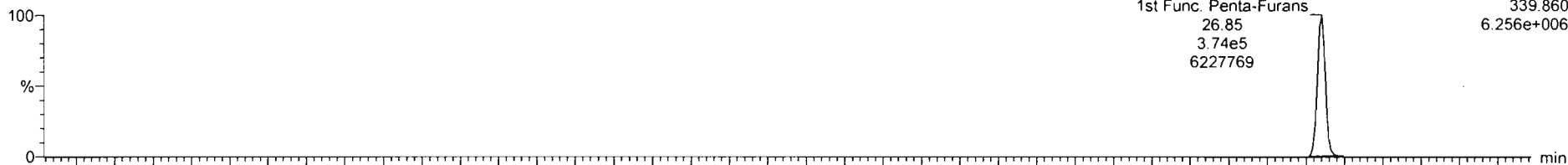
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Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

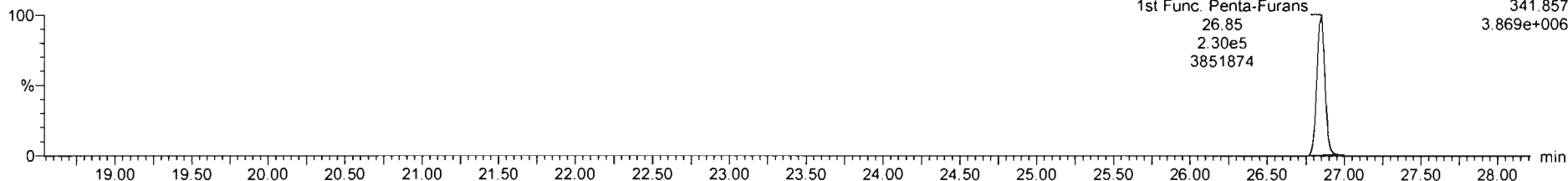
Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

1st Func. Penta-Furans

201126R1_1

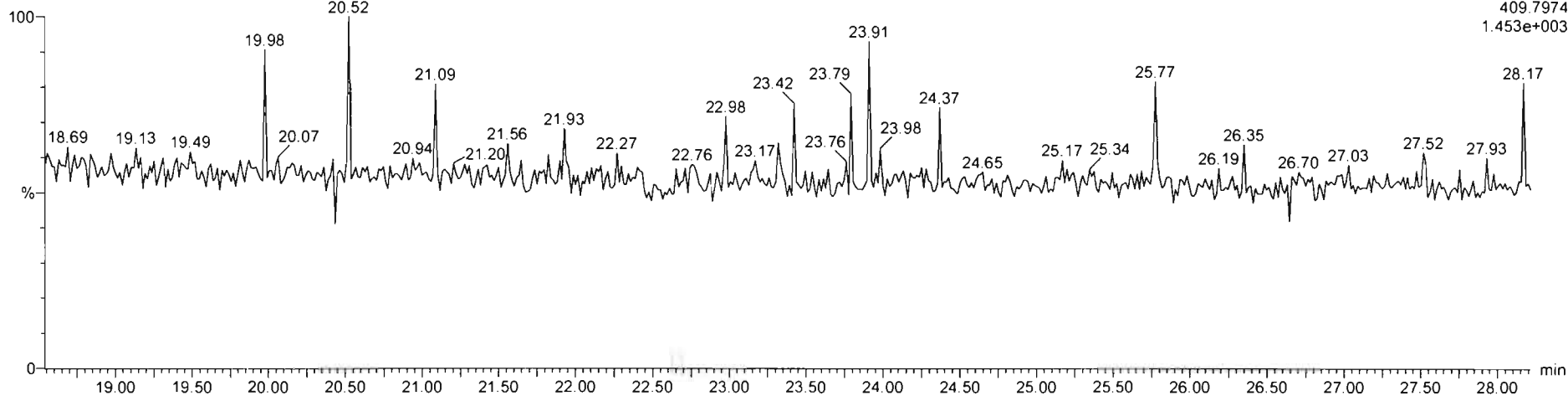


201126R1_1



DPE6

201126R1_1

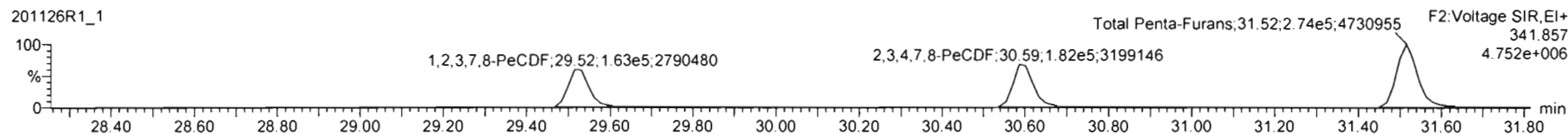


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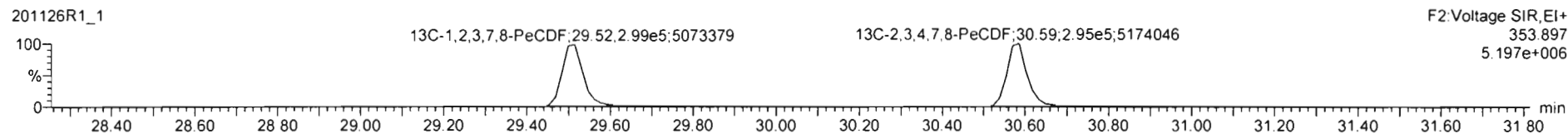
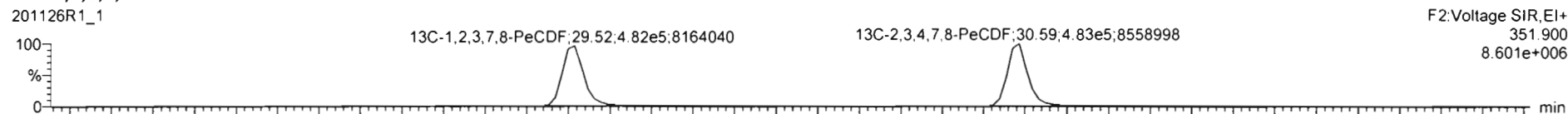
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Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

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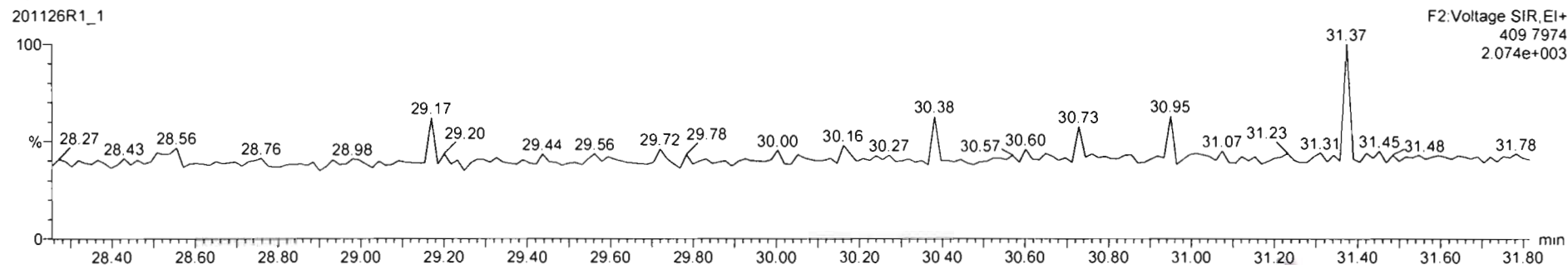
1,2,3,7,8-PeCDF



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



DPE2



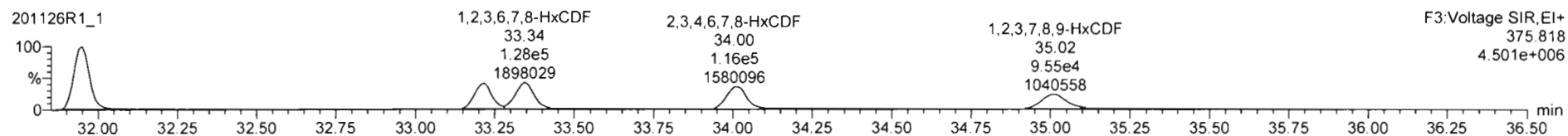
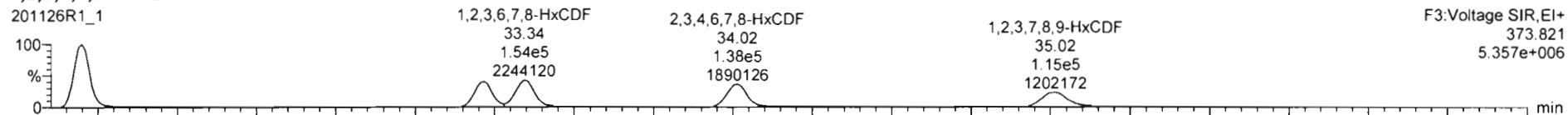
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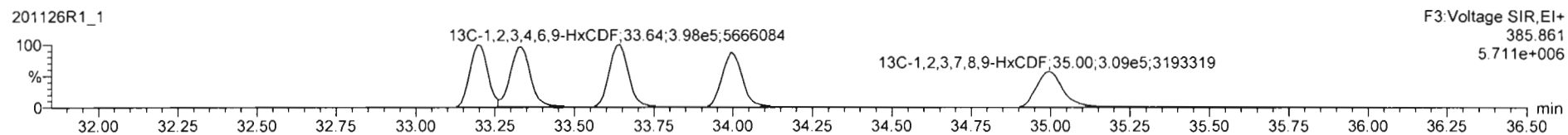
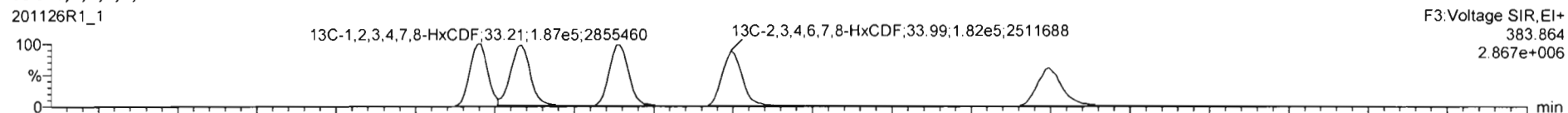
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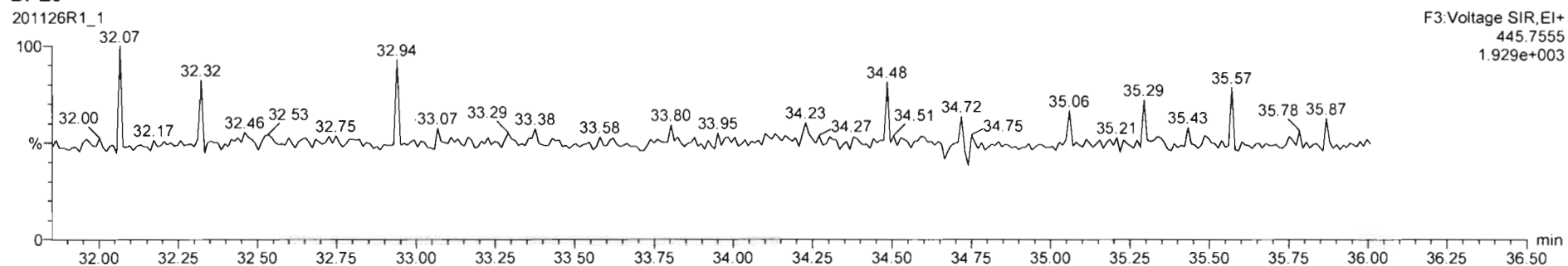
1,2,3,4,7,8-HxCDF



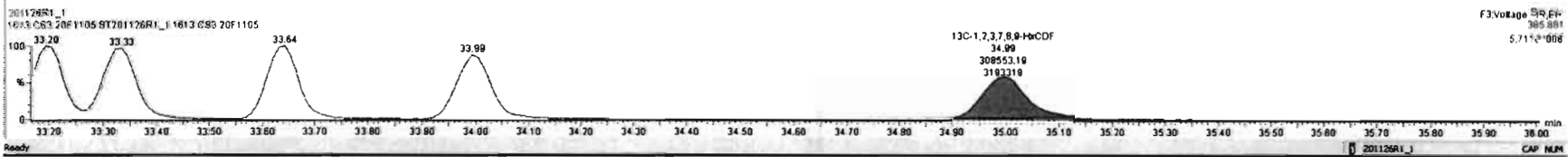
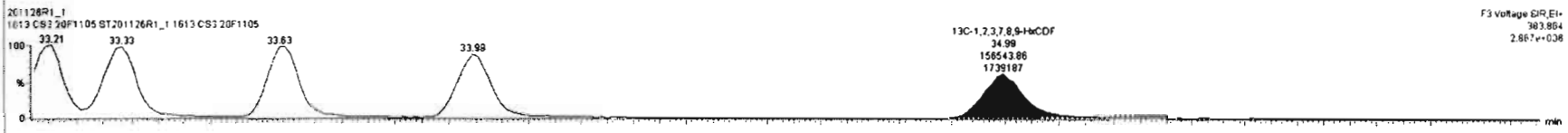
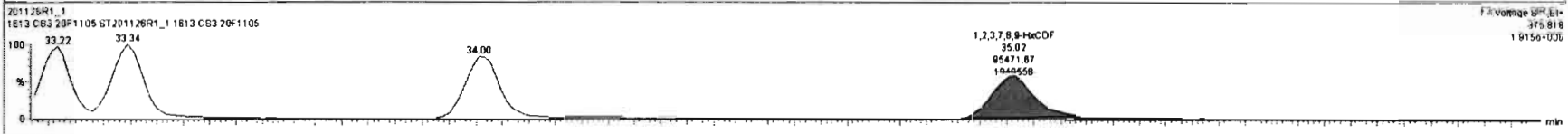
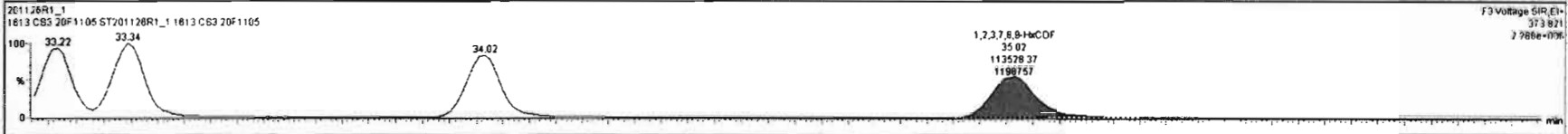
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
14	1,2,3,7,8,9-HxCDF	2.88e5	4.85e5	1.24	1.19	NO	0.8506	34.89	35.02	NO	1.000	1.001	47.3	94.5	NO
15	1,2,3,4,6,7,8-HpCDF	1.93e5	4.15e5	1.04	1.00	NO	0.9986	36.57	36.50	NO	1.000	1.001	46.6	93.3	NO
16	1,2,3,4,7,8,9-HxCDF	1.55e5	2.90e5	1.04	1.02	NO	1.1236	36.83	36.85	NO	1.000	1.001	47.5	95.0	NO
17	OCDF	2.93e5	6.79e5	0.89	0.85	NO	0.8682	41.27	41.26	NO	1.000	1.000	99.3	99.3	NO
18	13C-1,2,3,7,8-1CDD	6.07e5	5.43e5	0.77	0.83	NO	1.1089	26.03	26.04	NO	1.030	1.030	101	101	NO
19	13C-1,2,3,7,8-PeCDD	4.21e5	5.43e5	0.63	0.64	NO	0.8585	30.74	30.77	NO	1.216	1.218	90.4	90.4	NO
20	13C-1,2,3,4,7,8-HpCDD	3.79e5	5.93e5	1.24	1.32	NO	0.8997	34.10	34.11	NO	1.014	1.014	91.2	91.2	NO
21	13C-1,2,3,8,9-HxCDD	4.77e5	5.93e5	1.24	1.31	NO	0.8327	34.24	34.23	NO	1.018	1.018	96.6	96.6	NO
22	13C-1,2,3,7,8,9-HxCDD	4.51e5	5.93e5	1.24	1.25	NO	0.7618	34.48	34.48	NO	1.025	1.026	99.8	99.8	NO
23	13C-1,2,3,4,6,7,8-HpCDD	3.75e5	5.93e5	1.04	1.06	NO	0.8498	37.96	38.01	NO	1.129	1.130	97.5	97.5	NO
24	13C-OCDD	5.77e5	5.93e5	0.88	0.82	NO	0.5394	40.82	40.86	NO	1.217	1.218	181	80.3	NO
25	13C-1,2,3,7,8-1CDF	1.08e6	1.04e6	0.77	0.77	NO	0.9814	25.35	25.34	NO	1.003	1.003	104	104	NO
26	13C-1,2,3,7,8-PeCDF	7.81e5	1.04e6	1.55	1.81	NO	0.7917	29.47	29.51	NO	1.168	1.168	95.2	95.2	NO
27	13C-1,2,3,7,8,9-HxCDF	7.98e5	1.04e6	1.44	1.64	NO	0.7777	30.43	30.40	NO	1.196	1.196	96.4	96.4	NO

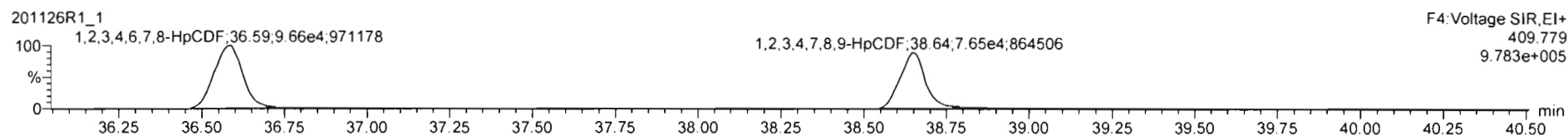
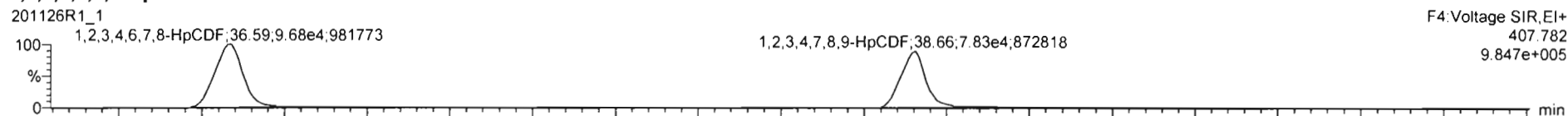


Dataset: Untitled

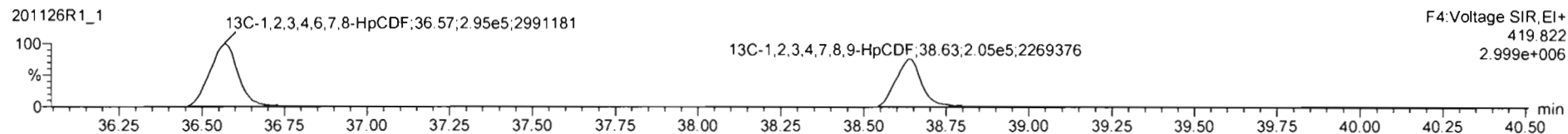
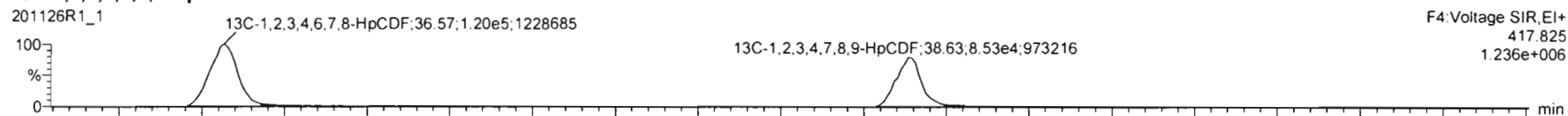
Last Altered: Thursday, November 26, 2020 09:25:53 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

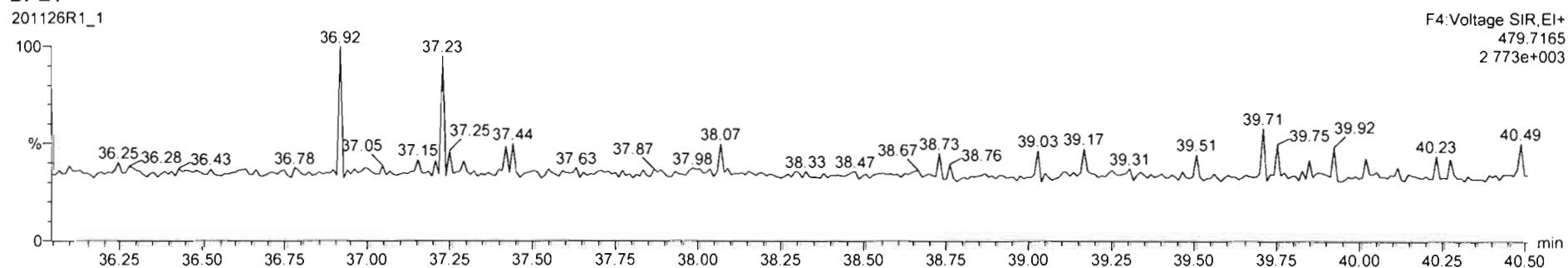
1,2,3,4,6,7,8-HpCDF



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



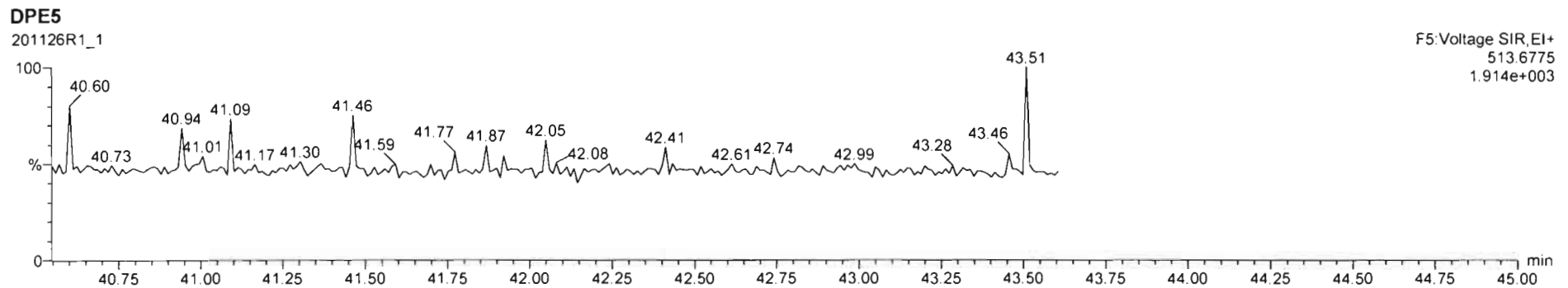
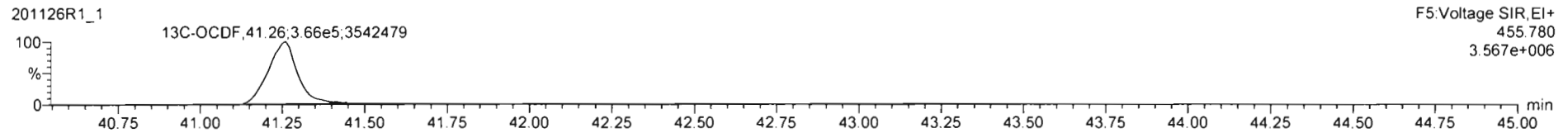
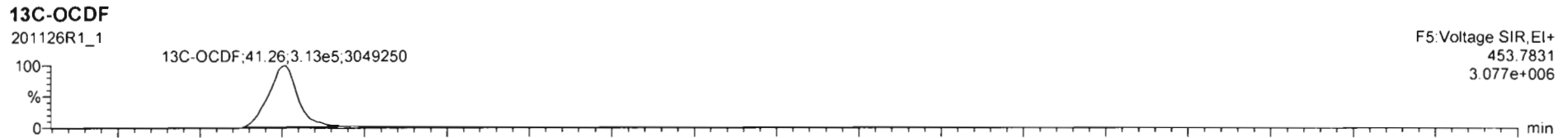
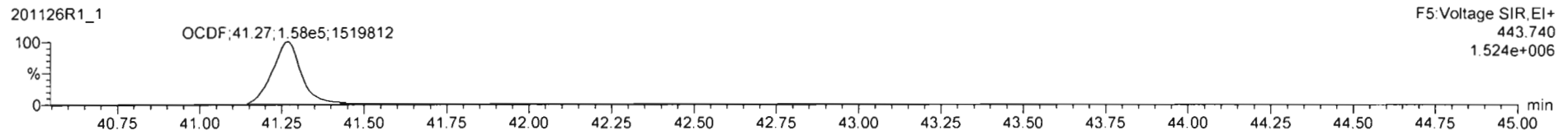
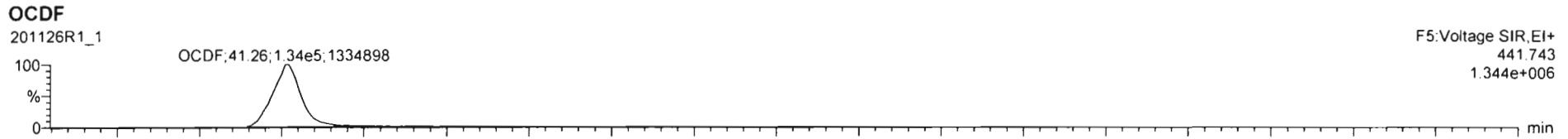
DPE4



Dataset: Untitled

Last Altered: Thursday, November 26, 2020 09:25:53 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

Name: 201126R1_1, Date: 26-Nov-2020, Time: 08:35:39, ID: ST201126R1_1 1613 CS3 20F1105, Description: 1613 CS3 20F1105

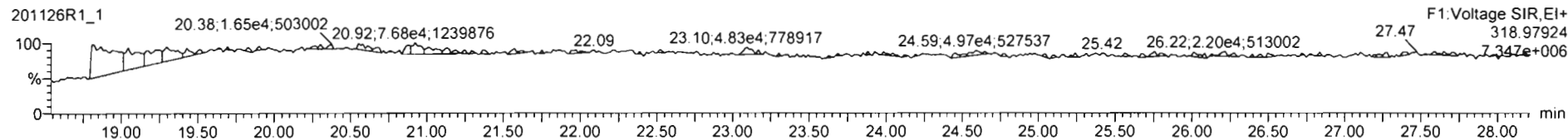


Dataset: Untitled

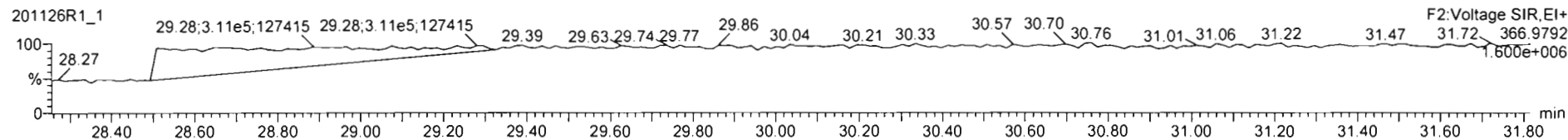
Last Altered: Thursday, November 26, 2020 09:25:53 Pacific Standard Time
Printed: Thursday, November 26, 2020 09:29:27 Pacific Standard Time

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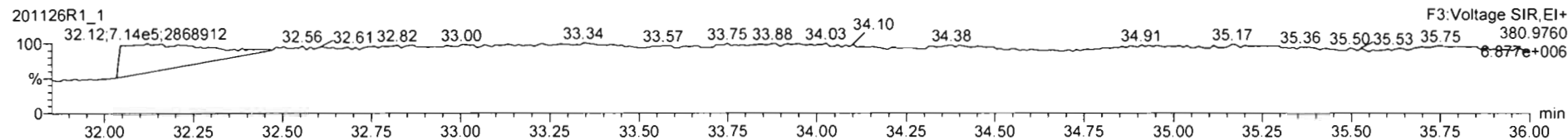
PFK1



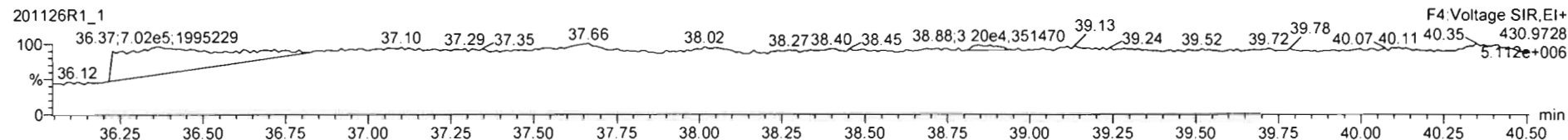
PFK2



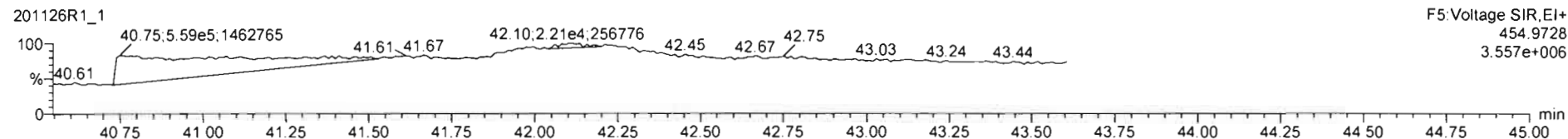
PFK3



PFK4



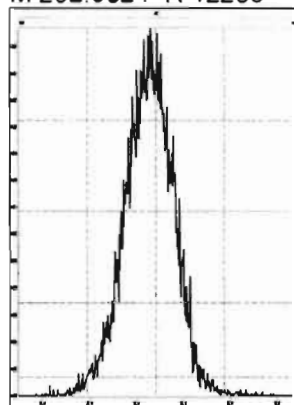
PFK5



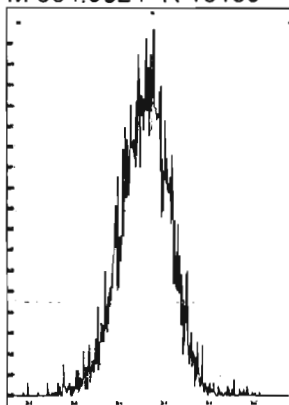
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, November 27, 2020 08:36:54 Pacific Standard Time

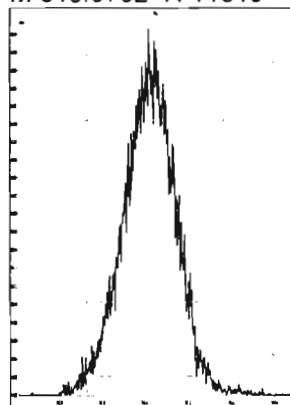
M 292.9824 R 12253



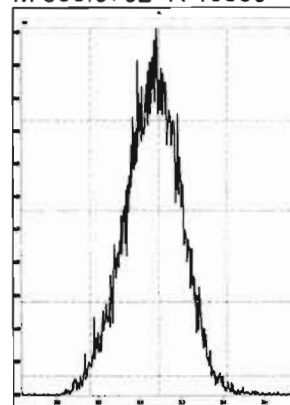
M 304.9824 R 13159



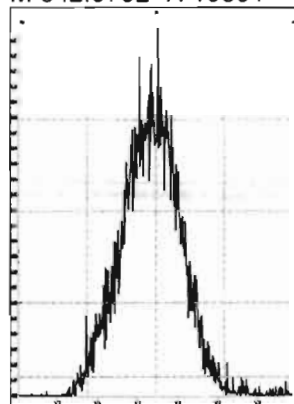
M 318.9792 R 11519



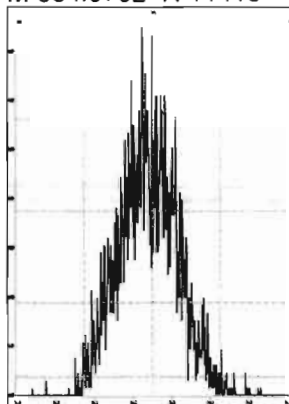
M 330.9792 R 10639



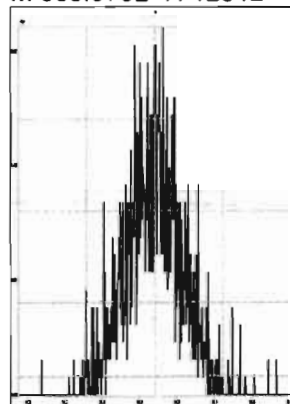
M 342.9792 R 10591



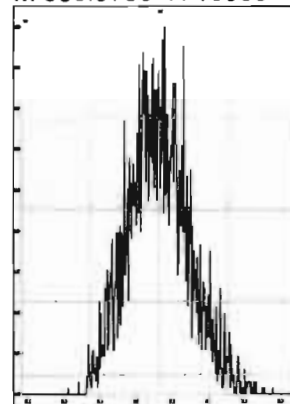
M 354.9792 R 11416



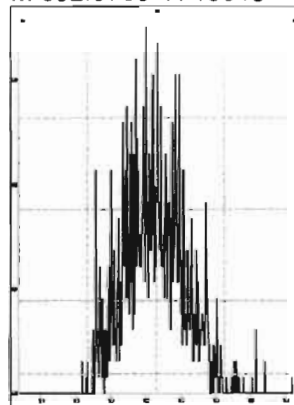
M 366.9792 R 12312



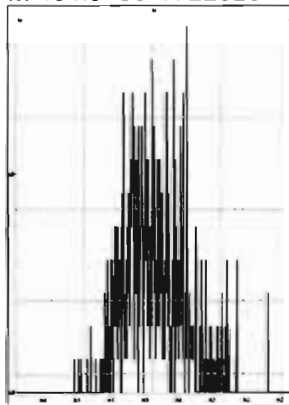
M 380.9760 R 10965



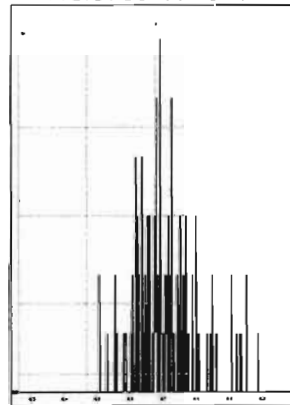
M 392.9760 R 13018



M 404.9760 R 22320



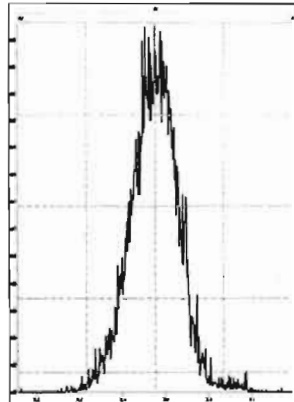
M 416.9760 R 78137



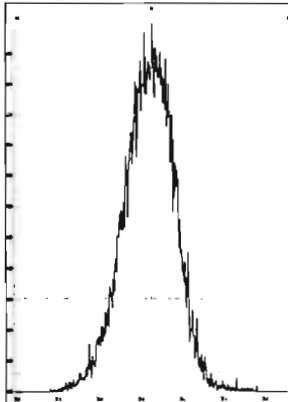
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, November 27, 2020 08:38:03 Pacific Standard Time

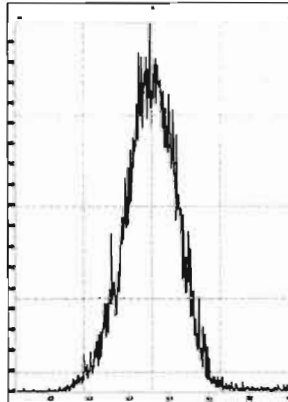
M 318.9792 R 13661



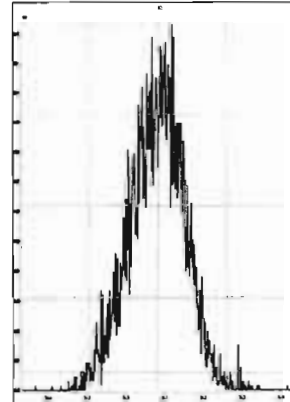
M 330.9792 R 12197



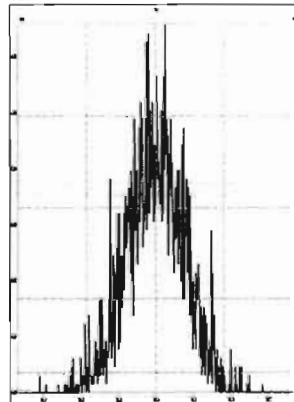
M 342.9792 R 11160



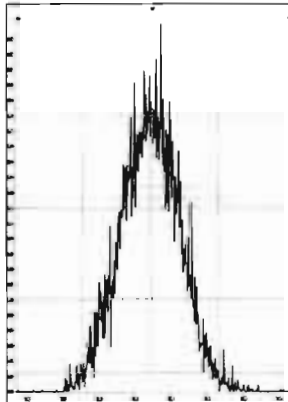
M 354.9792 R 11901



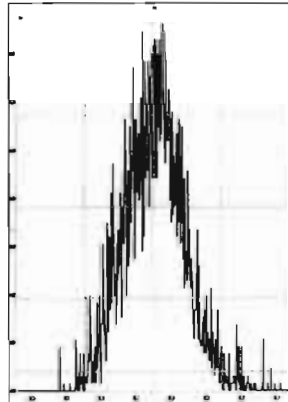
M 366.9792 R 11210



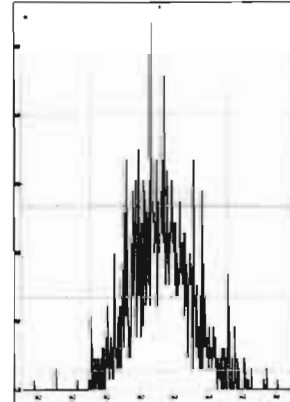
M 380.9760 R 10201



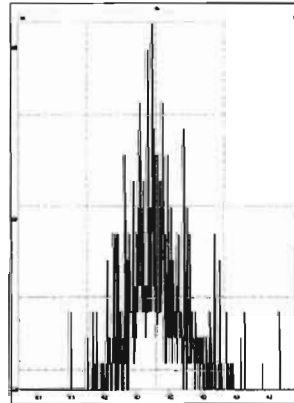
M 392.9760 R 12135



M 404.9760 R 12078



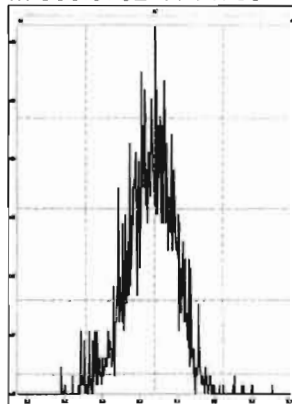
M 416.9760 R 17728



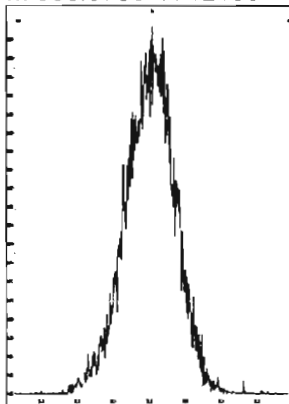
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Printed: Friday, November 27, 2020 08:40:25 Pacific Standard Time

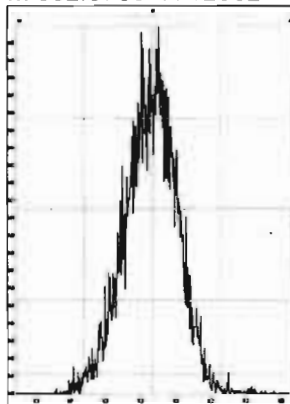
M 366.9792 R 14705



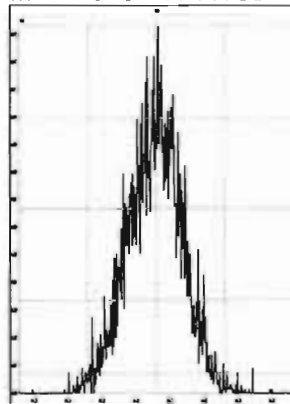
M 380.9760 R 12138



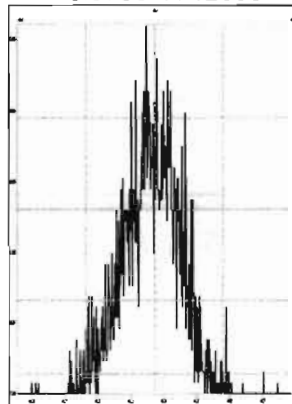
M 392.9760 R 12562



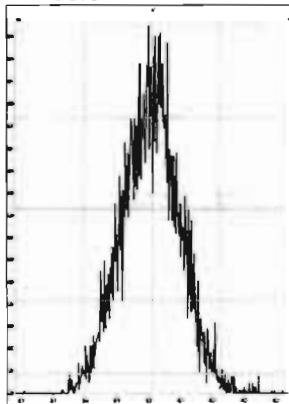
M 404.9760 R 11738



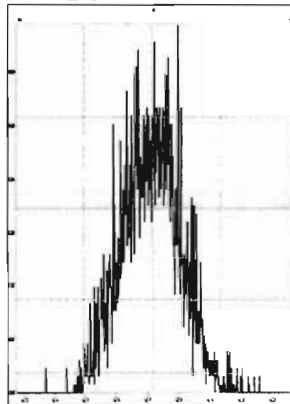
M 416.9760 R 12890



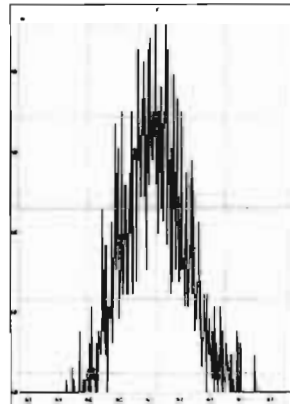
M 430.9728 R 11683



M 442.9728 R 11467



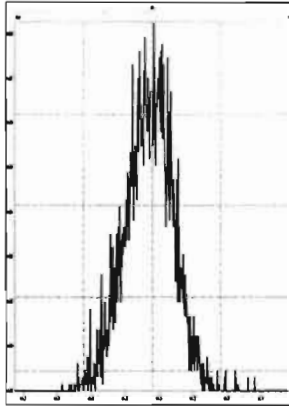
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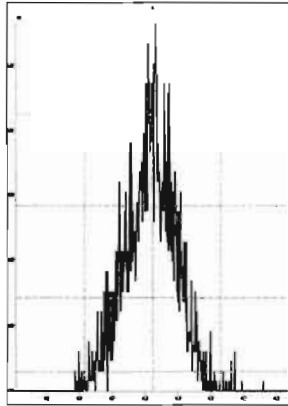
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Printed: Friday, November 27, 2020 08:41:07 Pacific Standard Time

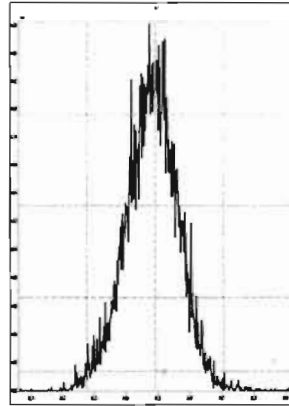
M 404.9760 R 13019



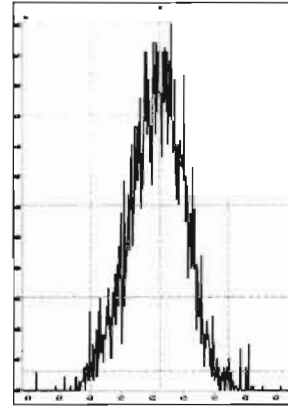
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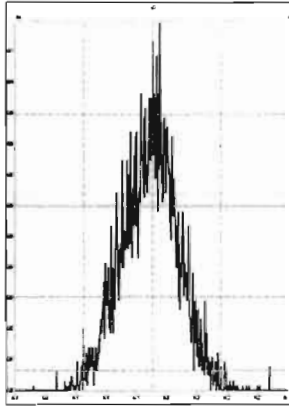
M 430.9728 R 11060



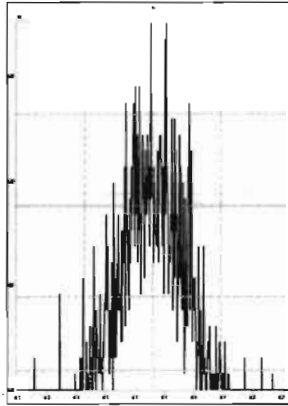
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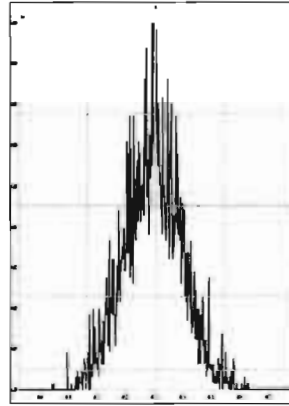
M 454.9728 R 11850



M 466.9728 R 15823



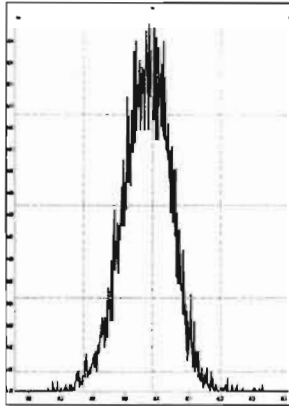
M 480.9696 R 11310



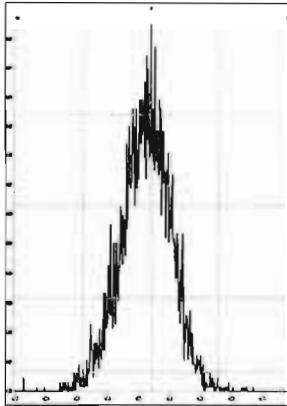
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Printed: Friday, November 27, 2020 08:41:29 Pacific Standard Time

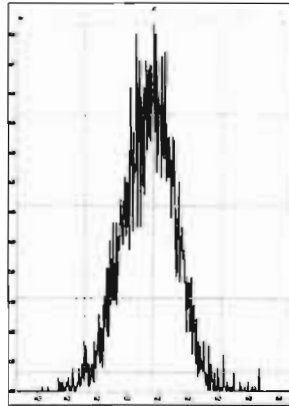
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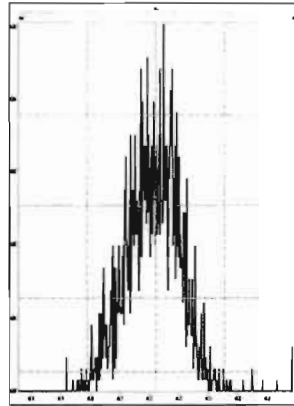
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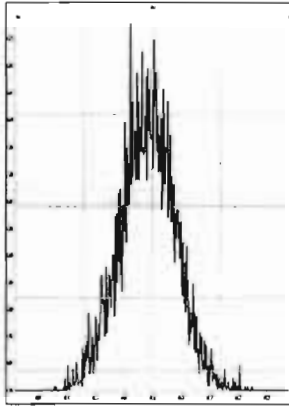
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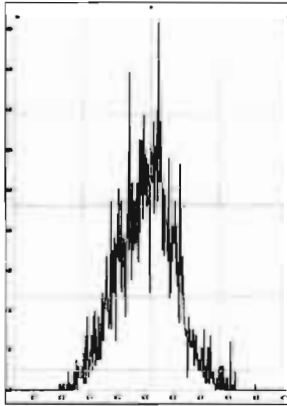
M 466.9728 R 13658



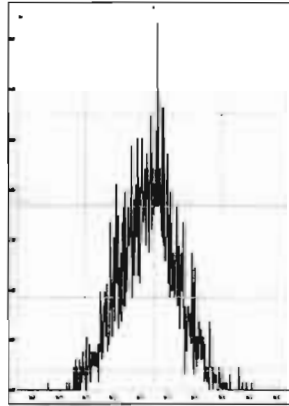
M 480.9696 R 11210



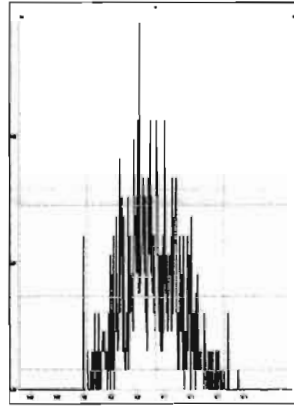
M 492.9696 R 11518



M 504.9696 R 12135



M 516.9697 R 18647



HKMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201204R3-1

Reviewed By: GPO 12/01/2020
Initials & Date

End Calibration ID: ST201204R4-1

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<u>HN</u>	<u>HN</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Samples within 12 hour clock?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Bottle position verified?	<u>HN</u>	<u>N</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\201204R3\201204R3_1.qld
 Last Altered: Saturday, December 05, 2020 10:37:18 Pacific Standard Time
 Printed: Saturday, December 05, 2020 10:37:52 Pacific Standard Time

HN 12/05/2020
 GRB 12/07/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
 Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_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	9.59e4	9.86e5	0.78	NO	0.980	26.01	26.01	NO	1.001	1.001	9.9250	99.3	NO
2	2 1,2,3,7,8-PeCDD	3.29e5	6.82e5	0.61	NO	0.932	30.76	30.74	NO	1.001	1.000	51.720	103	NO
3	3 1,2,3,4,7,8-HxCDD	2.57e5	4.61e5	1.25	NO	1.02	34.06	34.05	NO	1.001	1.000	54.642	109	NO
4	4 1,2,3,6,7,8-HxCDD	2.88e5	6.10e5	1.26	NO	0.902	34.18	34.18	NO	1.001	1.001	52.427	105	NO
5	5 1,2,3,7,8,9-HxCDD	2.79e5	5.68e5	1.24	NO	0.954	34.44	34.45	NO	1.000	1.001	51.501	103	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.93e5	4.09e5	1.04	NO	0.918	37.92	37.92	NO	1.000	1.000	51.466	103	NO
7	7 OCDD	3.11e5	6.75e5	0.90	NO	0.866	40.83	40.83	NO	1.000	1.000	106.51	107	NO
8	8 2,3,7,8-TCDF	1.21e5	1.37e6	0.76	NO	0.848	25.29	25.30	NO	1.000	1.001	10.444	104	NO
9	9 1,2,3,7,8-PeCDF	5.03e5	9.98e5	1.60	NO	0.960	29.46	29.48	NO	1.000	1.001	52.540	105	NO
10	10 2,3,4,7,8-PeCDF	5.49e5	9.75e5	1.59	NO	1.07	30.55	30.55	NO	1.001	1.000	52.806	106	NO
11	11 1,2,3,4,7,8-HxCDF	3.38e5	6.56e5	1.22	NO	0.986	33.15	33.15	NO	1.000	1.000	52.323	105	NO
12	12 1,2,3,6,7,8-HxCDF	3.90e5	7.17e5	1.24	NO	1.04	33.30	33.29	NO	1.001	1.000	52.368	105	NO
13	13 2,3,4,6,7,8-HxCDF	3.40e5	6.42e5	1.23	NO	1.02	33.96	33.95	NO	1.001	1.000	51.807	104	NO
14	14 1,2,3,7,8,9-HxCDF	2.72e5	5.36e5	1.25	NO	0.991	34.93	34.93	NO	1.000	1.000	51.253	103	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.70e5	4.96e5	1.02	NO	1.05	36.50	36.50	NO	1.000	1.000	51.906	104	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.99e5	3.28e5	1.02	NO	1.18	38.55	38.55	NO	1.000	1.000	51.687	103	NO
17	17 OCDF	3.62e5	7.69e5	0.88	NO	0.896	41.10	41.10	NO	1.000	1.000	105.08	105	NO
18	18 13C-2,3,7,8-TCDD	9.86e5	9.55e5	0.78	NO	1.06	25.96	25.98	NO	1.030	1.031	97.761	97.8	NO
19	19 13C-1,2,3,7,8-PeCDD	6.82e5	9.55e5	0.63	NO	0.785	30.72	30.73	NO	1.219	1.220	91.026	91.0	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.61e5	7.83e5	1.26	NO	0.621	34.04	34.04	NO	1.014	1.014	94.803	94.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.10e5	7.83e5	1.27	NO	0.734	34.16	34.16	NO	1.017	1.017	106.04	106	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.68e5	7.83e5	1.25	NO	0.723	34.44	34.43	NO	1.026	1.025	100.36	100	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.09e5	7.83e5	1.07	NO	0.568	37.91	37.91	NO	1.129	1.129	92.088	92.1	NO
24	24 13C-OCDD	6.75e5	7.83e5	0.88	NO	0.496	40.82	40.82	NO	1.216	1.216	173.82	86.9	NO
25	25 13C-2,3,7,8-TCDF	1.37e6	1.47e6	0.76	NO	0.919	25.27	25.28	NO	1.003	1.004	101.02	101	NO
26	26 13C-1,2,3,7,8-PeCDF	9.98e5	1.47e6	1.56	NO	0.715	29.45	29.46	NO	1.169	1.169	94.722	94.7	NO
27	27 13C-2,3,4,7,8-PeCDF	9.75e5	1.47e6	1.58	NO	0.689	30.52	30.53	NO	1.212	1.212	96.083	96.1	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.56e5	7.83e5	0.51	NO	0.873	33.15	33.14	NO	0.987	0.987	95.906	95.9	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.17e5	7.83e5	0.51	NO	0.933	33.28	33.28	NO	0.991	0.991	98.092	98.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.42e5	7.83e5	0.51	NO	0.843	33.94	33.94	NO	1.011	1.011	97.295	97.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.36e5	7.83e5	0.50	NO	0.780	34.93	34.92	NO	1.040	1.040	87.707	87.7	NO

Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

Last Altered: Saturday, December 05, 2020 10:37:18 Pacific Standard Time

Printed: Saturday, December 05, 2020 10:37:52 Pacific Standard Time

Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_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	13C-1,2,3,4,6,7,8-HpCDF	4.96e5	7.83e5	0.43	NO	0.726	36.49	36.49	NO	1.087	1.086	87.257	87.3	NO
33	13C-1,2,3,4,7,8,9-HpCDF	3.28e5	7.83e5	0.43	NO	0.491	38.54	38.54	NO	1.148	1.148	85.217	85.2	NO
34	13C-OCDF	7.69e5	7.83e5	0.86	NO	0.565	41.10	41.09	NO	1.224	1.224	173.56	86.8	NO
35	37Cl-2,3,7,8-TCDD	1.20e5	9.55e5			1.22	25.98	26.01	NO	1.031	1.032	10.319	103	NO
36	13C-1,2,3,4-TCDD	9.55e5	9.55e5	0.78	NO	1.00	25.20	25.20	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.47e6	1.47e6	0.78	NO	1.00	23.66	23.69	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	7.83e5	7.83e5	0.50	NO	1.00	33.58	33.58	NO	1.000	1.000	100.00	100	YES <input checked="" type="checkbox"/>

Dataset: Untitled

Last Altered: Saturday, December 05, 2020 12:00:17 Pacific Standard Time
Printed: Saturday, December 05, 2020 12:00:41 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
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	201204R3_1	ST201204R3_1 1613 CS3 20L0301	04-Dec-20	17:02:44
2	201204R3_2	QC TCDF	04-Dec-20	17:47:37
3	201204R3_3	B0L0009-BS1 OPR 1	04-Dec-20	18:32:29
4	201204R3_4	B0K0203-BS1 OPR 1	04-Dec-20	19:17:21
5	201204R3_5	B0K0196-BS1 OPR 1	04-Dec-20	20:02:13
6	201204R3_6	SOLVENT BLANK	04-Dec-20	20:47:05
7	201204R3_7	B0L0009-BLK1 Method Blank 10	04-Dec-20	21:31:57
8	201204R3_8			
9	201204R3_9			
10	201204R3_10			
11	201204R3_11			
12	201204R3_12			
13	201204R3_13			
14	201204R3_14			
15	201204R3_15			
16	201204R4_1			
17	201204R4_2	ST201204R4_1 1613 CS3 20L0301	05-Dec-20	08:28:03
18	201204R4_3			
19	201204R4_4			
20	201204R4_5	QC TCDF	05-Dec-20	10:26:48

Manually acquired end resolution check, no changes were made to tune. Injected CS3 right after & TCDF CPSM. HW 12/05/2020

(A) Instrument paused HW 12/05/2020 will reinject

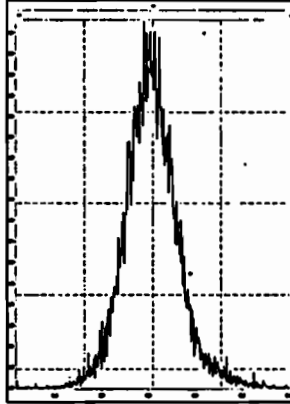
(B) Instrument paused reinject ~~0~~ HW 12/05/2020

(C) Instrument paused on TCDF CPSM twice, reinject immediately afterwards HW 12/05/2020

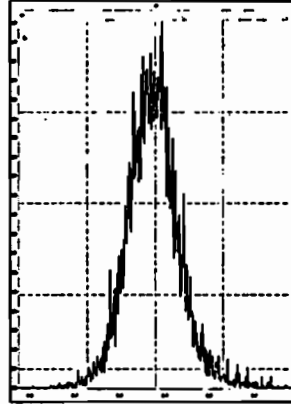
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, December 04, 2020 16:56:23 Pacific Standard Time

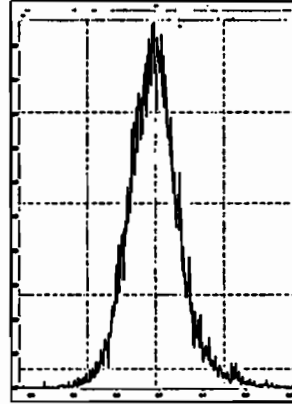
M 292.9824 R 12018



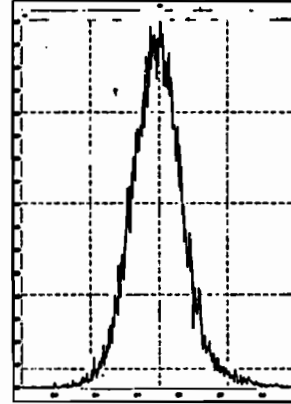
M 304.9824 R 12440



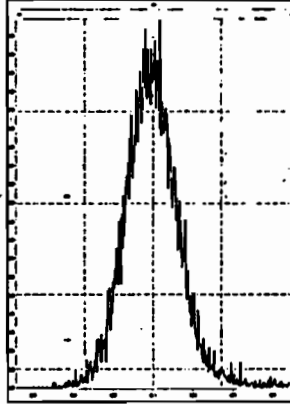
M 318.9792 R 11848



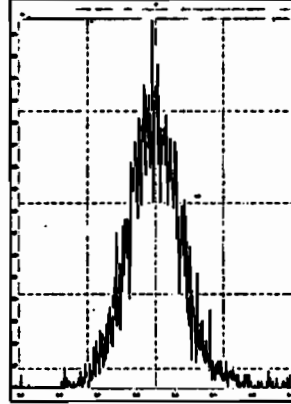
M 330.9792 R 11846



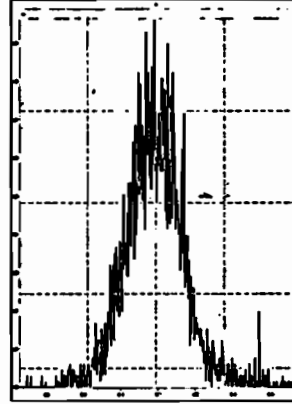
M 342.9792 R 11257



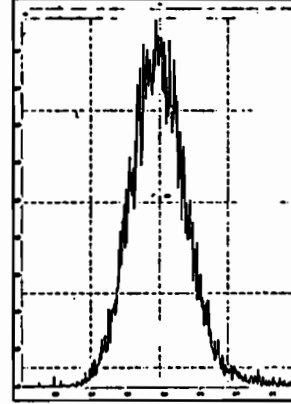
M 354.9792 R 12139



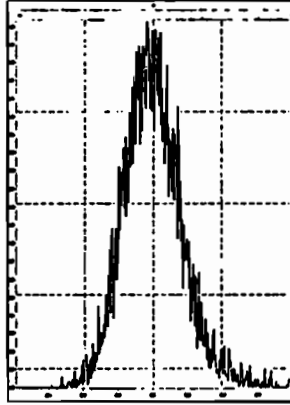
M 366.9792 R 13732



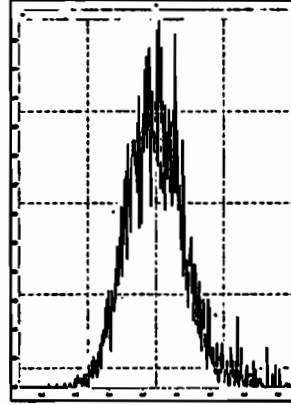
M 380.9760 R 10916



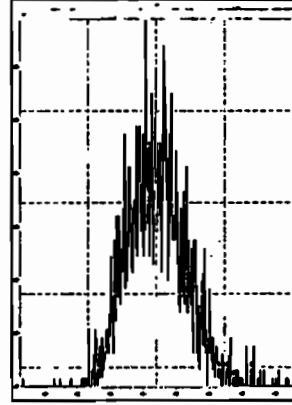
M 392.9760 R 10731



M 404.9760 R 11367



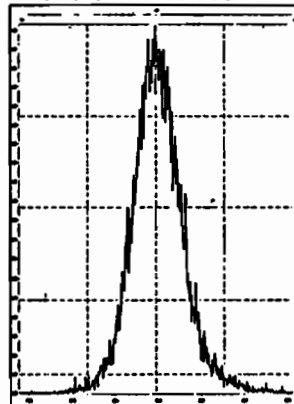
M 416.9760 R 12565



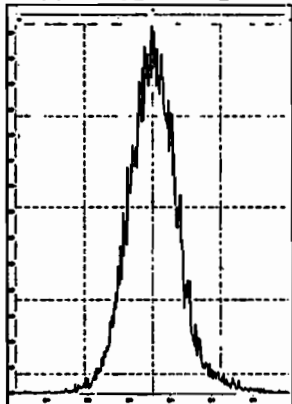
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, December 04, 2020 16:57:28 Pacific Standard Time

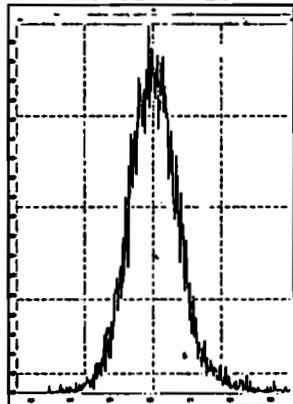
M 318.9792 R 11311



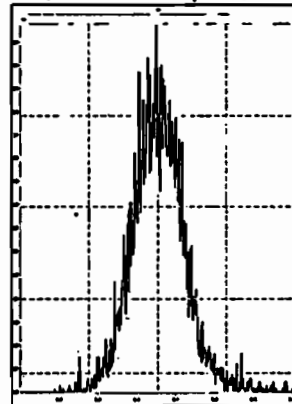
M 330.9792 R 12252



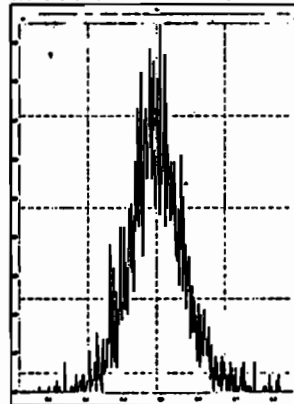
M 342.9792 R 12310



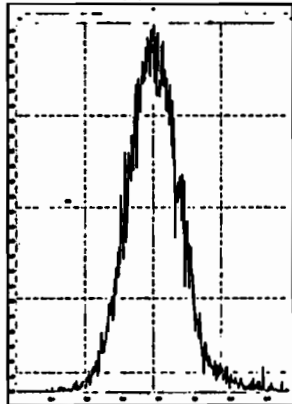
M 354.9792 R 11851



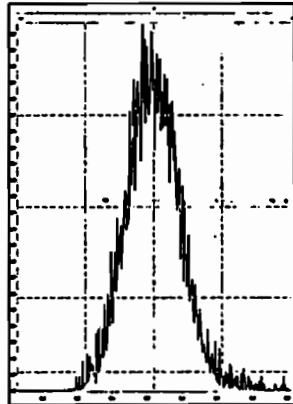
M 366.9792 R 12310



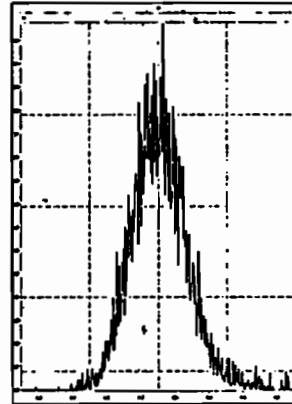
M 380.9760 R 11847



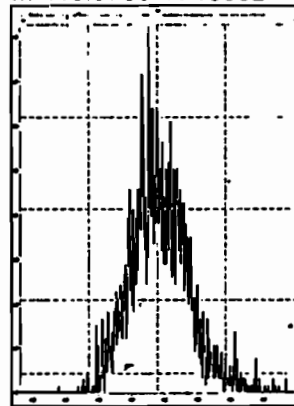
M 392.9760 R 11575



M 404.9760 R 11012



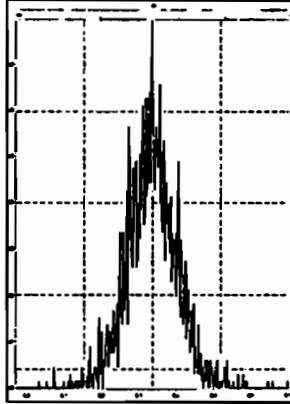
M 416.9760 R 13662



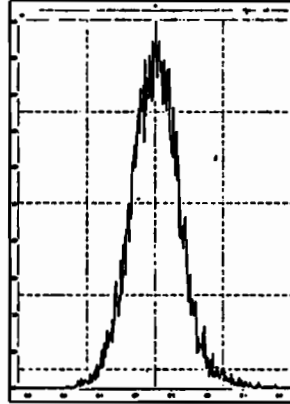
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, December 04, 2020 16:58:11 Pacific Standard Time

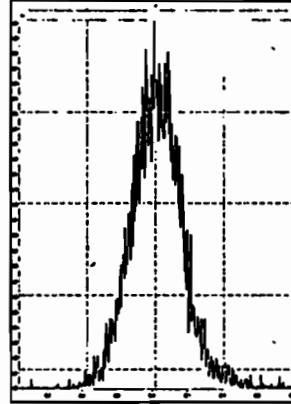
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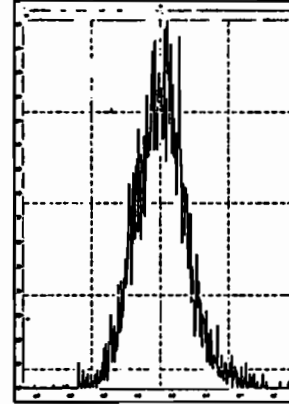
M 380.9760 R 12376



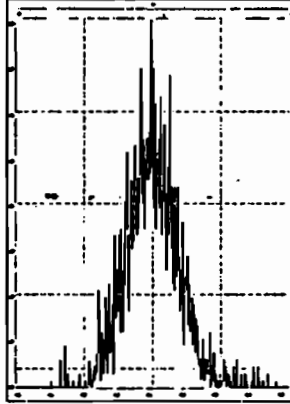
M 392.9760 R 13023



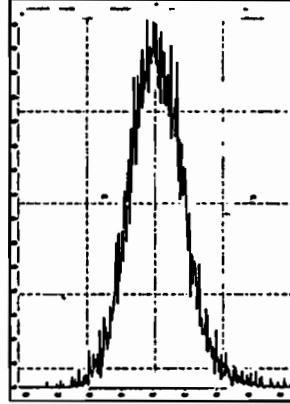
M 404.9760 R 12438



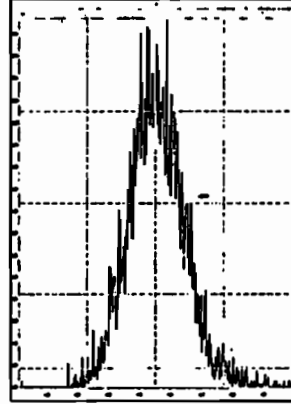
M 416.9760 R 14704



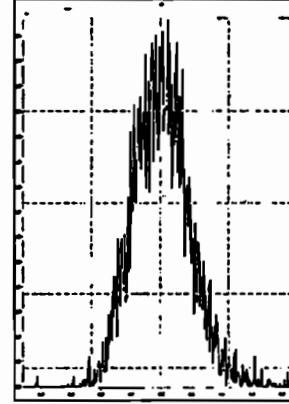
M 430.9728 R 12020



M 442.9728 R 11961



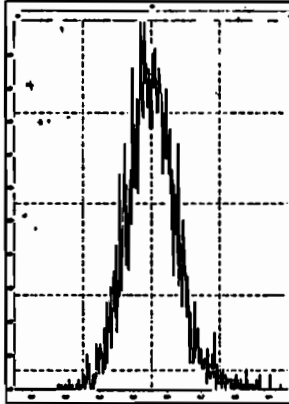
M 454.9728 R 12192



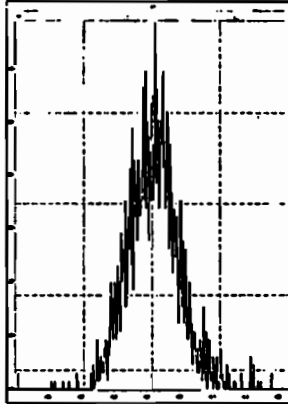
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Printed: Friday, December 04, 2020 16:58:45 Pacific Standard Time

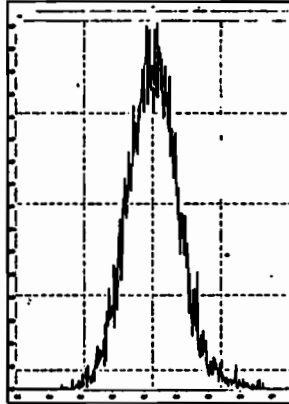
M 404.9760 R 12372



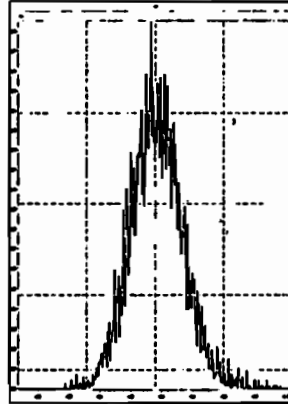
M 416.9760 R 13965



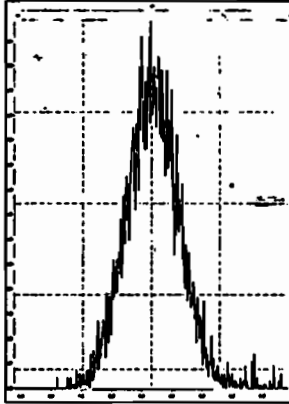
M 430.9728 R 12021



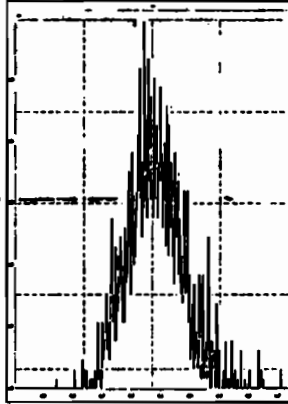
M 442.9728 R 11627



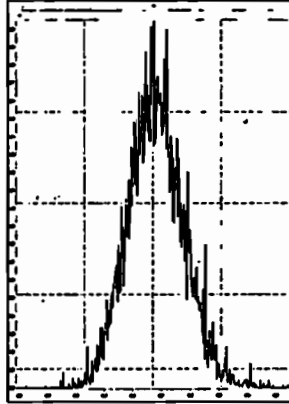
M 454.9728 R 11902



M 466.9728 R 12626



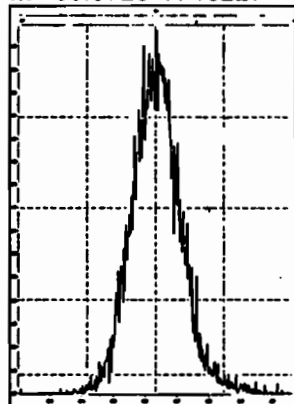
M 480.9696 R 11110



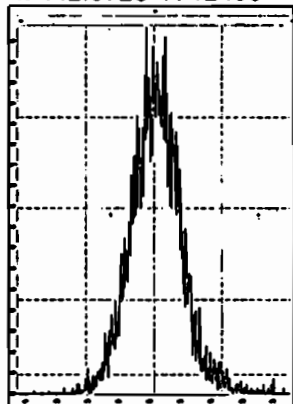
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, December 04, 2020 16:59:26 Pacific Standard Time

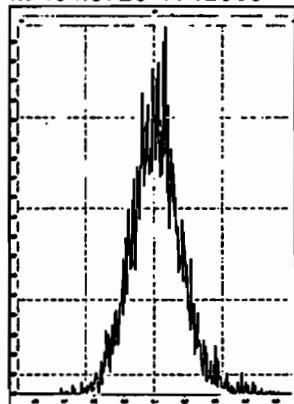
M 430.9728 R 13227



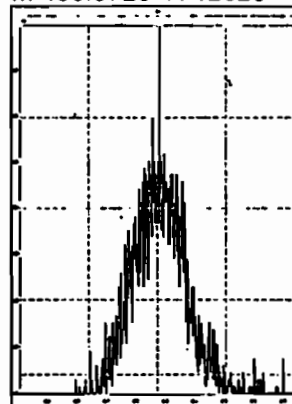
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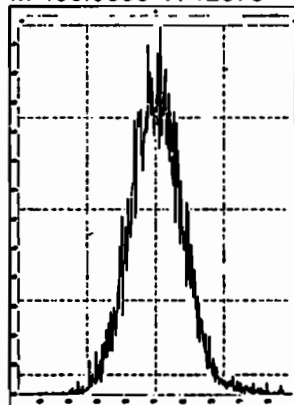
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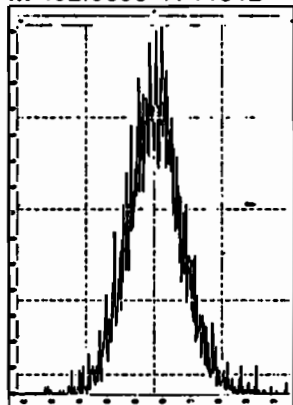
M 466.9728 R 12629



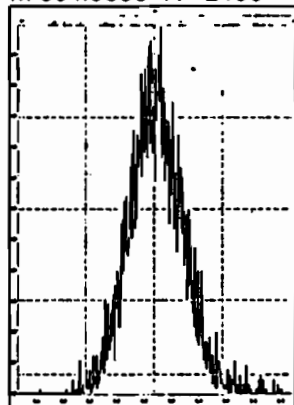
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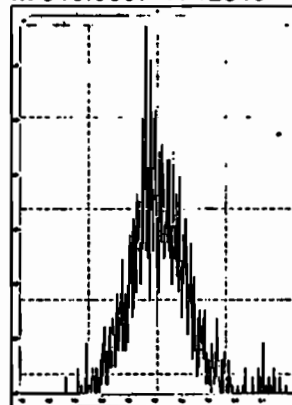
M 492.9696 R 11312



M 504.9696 R 12193



M 516.9697 R 12315



Dataset: U:\VG12.PRO\Results\201204R3\201204R3_CPSM.qld

Last Altered: Saturday, December 05, 2020 10:44:15 Pacific Standard Time

Printed: Saturday, December 05, 2020 10:45:09 Pacific Standard Time

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: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1 1,3,6,8-TCDD (First)	22.12
2	2 1,2,8,9-TCDD (Last)	26.91
3	3 1,2,4,7,9-PeCDD (First)	28.47
4	4 1,2,3,8,9-PeCDD (Last)	31.10
5	5 1,2,4,6,7,9-HxCDD (First)	32.44
6	6 1,2,3,7,8,9-HxCDD (Last)	34.45
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.88
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.92
9	9 1,3,6,8-TCDF (First)	19.92
10	10 1,2,8,9-TCDF (Last)	27.22
11	11 1,3,4,6,8-PeCDF (First)	26.79
12	12 1,2,3,8,9-PeCDF (Last)	31.47
13	13 1,2,3,4,6,8-HxCDF (First)	31.91
14	14 1,2,3,7,8,9-HxCDF (Last)	34.93
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.50
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.55

Dataset: U:\VG12.PRO\Results\201204R3\201204R3_CPSM.qld

Last Altered: Saturday, December 05, 2020 10:44:15 Pacific Standard Time
Printed: Saturday, December 05, 2020 10:45:09 Pacific Standard Time

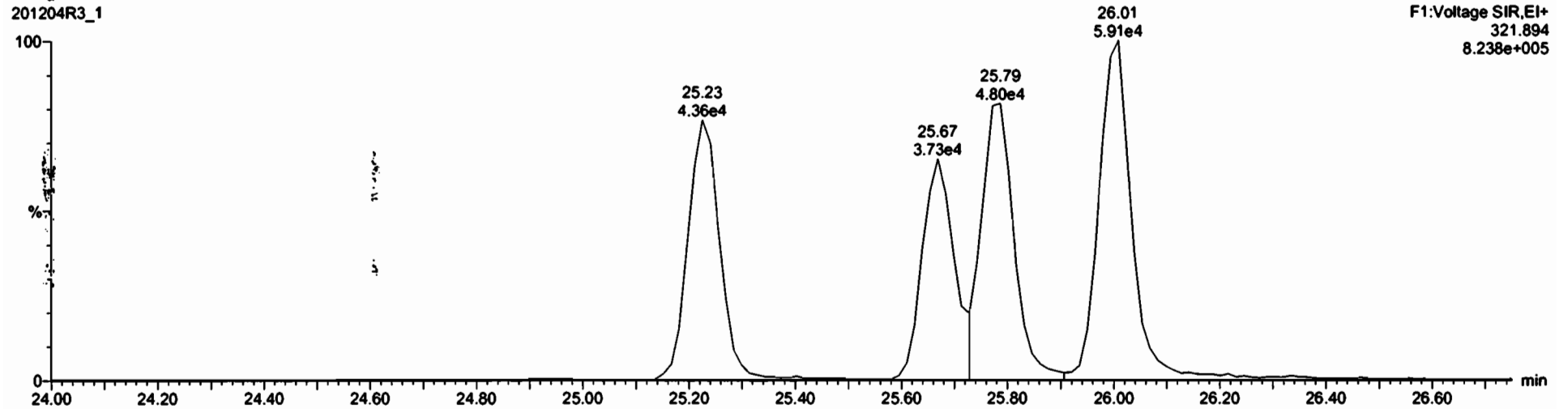
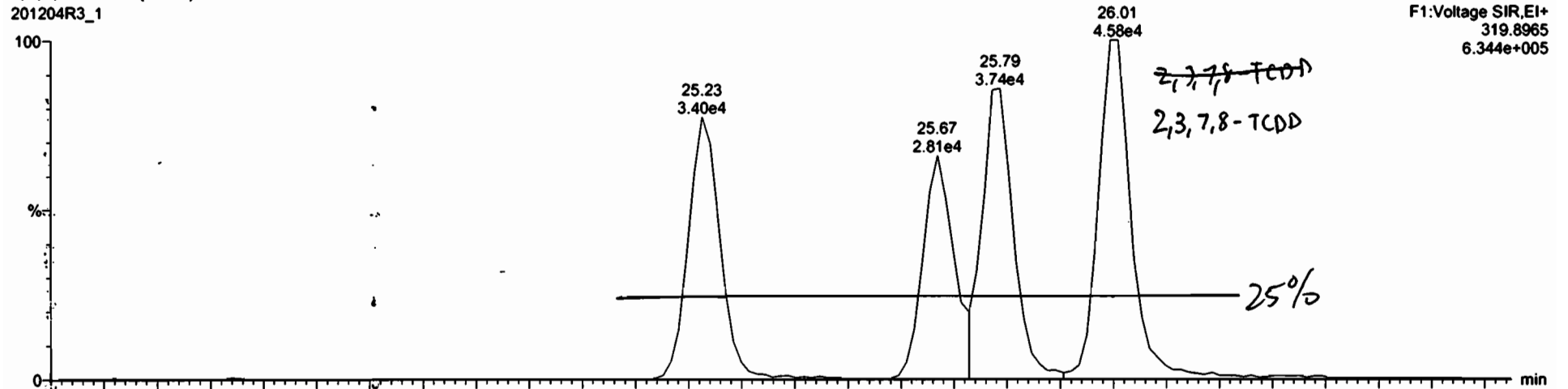
GRB 12/07/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 10 Nov 2020 10:04:22
Calibration: U:\VG12.PRO\CurveDB\db_DIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

HIN 12/05/2020

1,3,6,8-TCDD (First)
201204R3_1

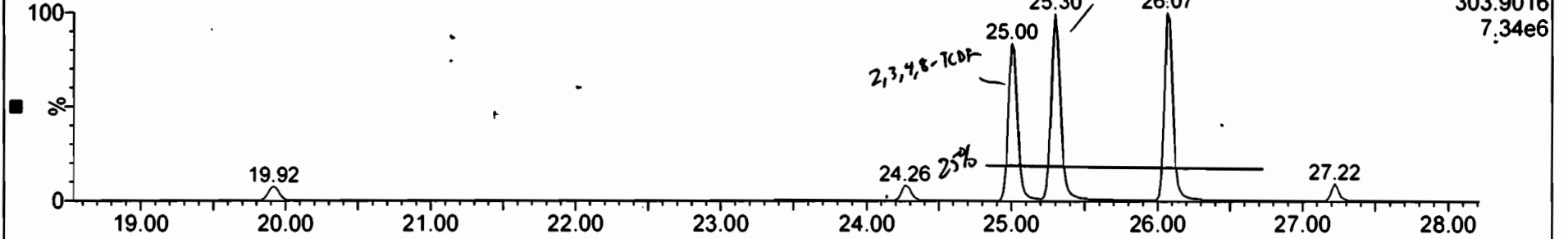


HN 12/05/2020

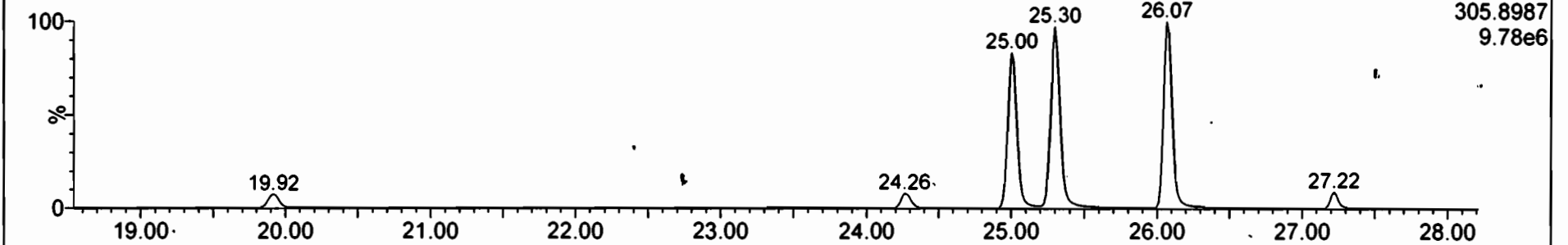
GPO 12/07/2020

QC TCDF

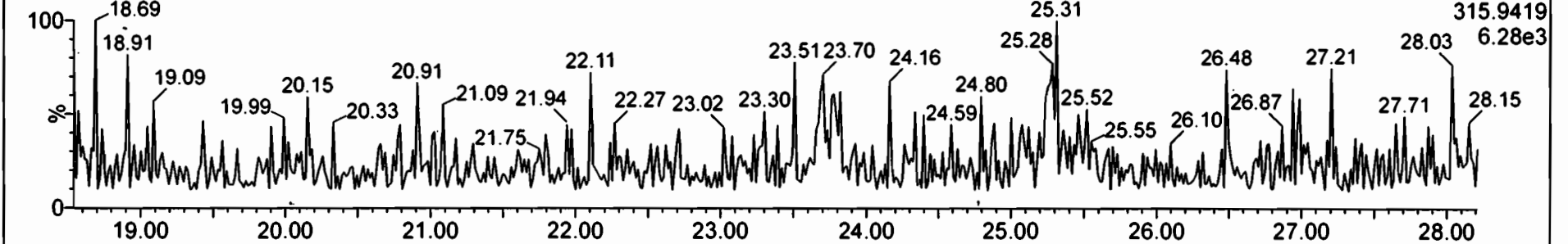
201204R3_2



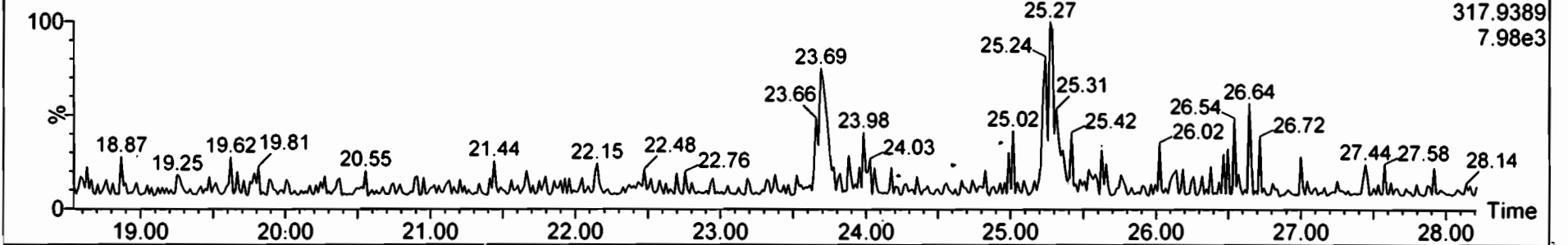
201204R3_2



201204R3_2



201204R3_2



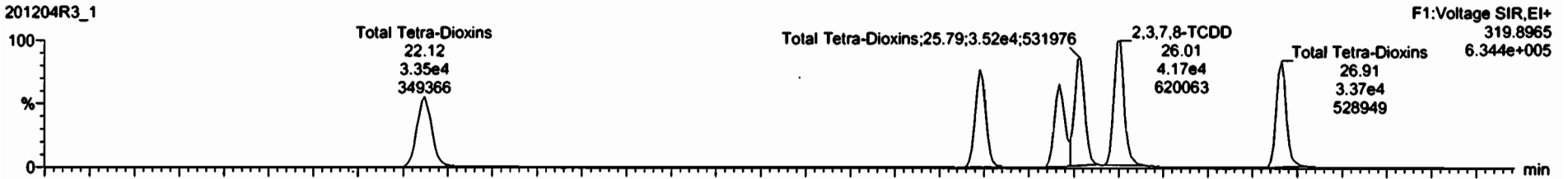
Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

Last Altered: Saturday, December 05, 2020 10:31:34 Pacific Standard Time
Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

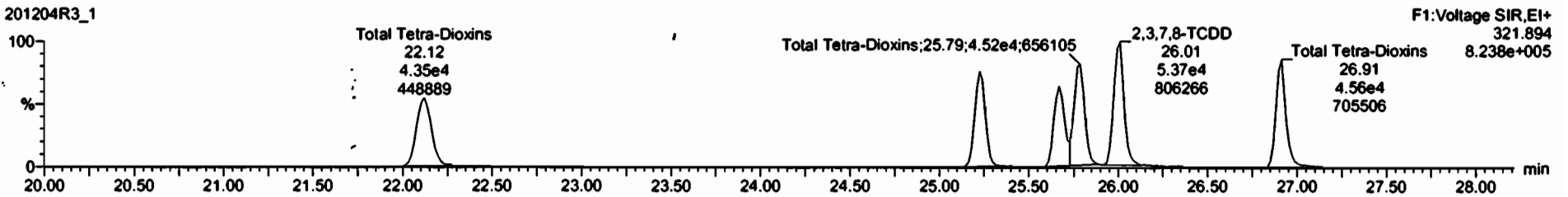
Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

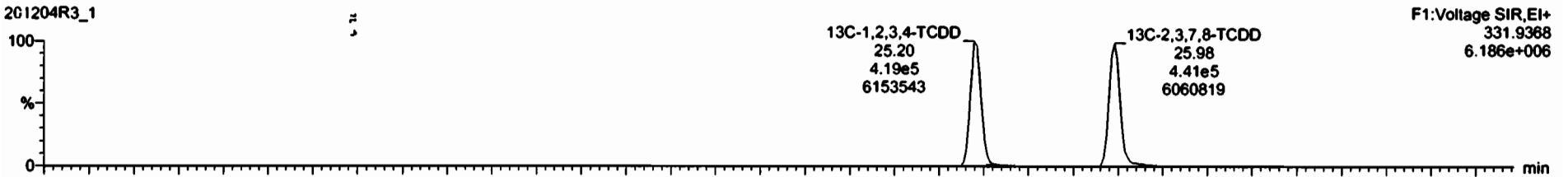
2,3,7,8-TCDD
201204R3_1



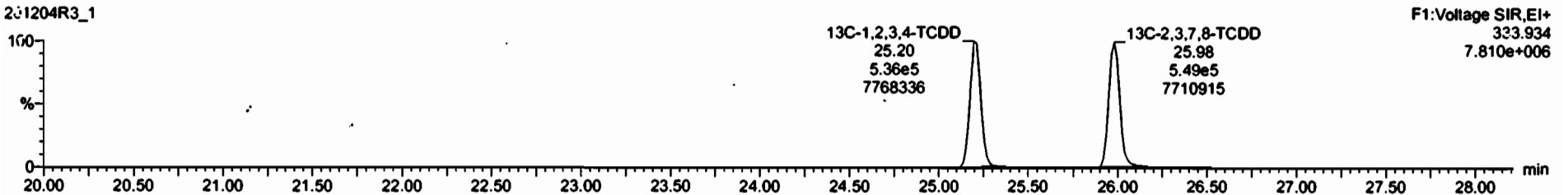
201204R3_1



13C-2,3,7,8-TCDD
201204R3_1

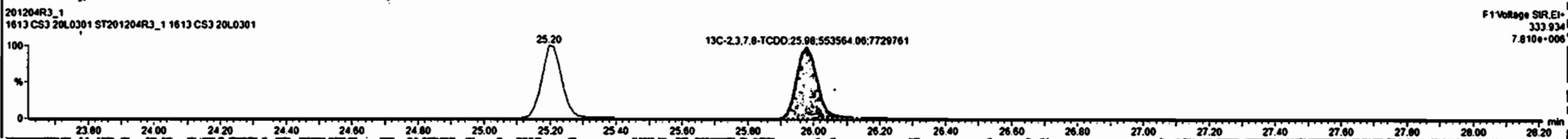
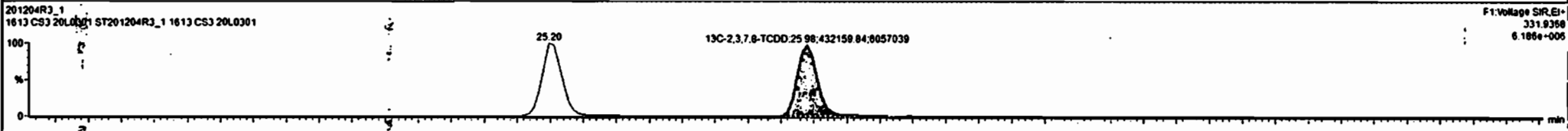
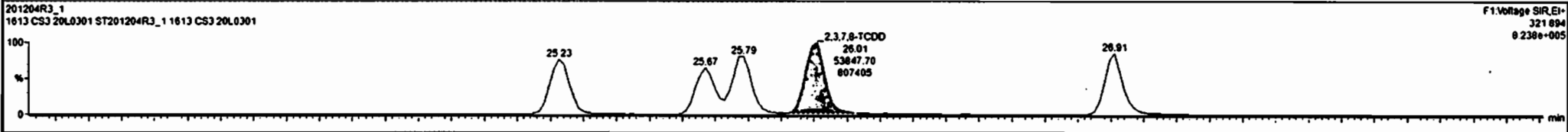
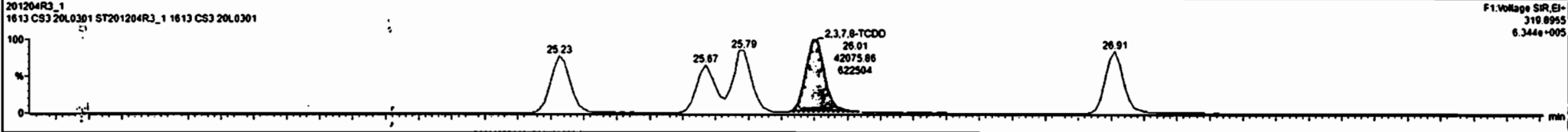


201204R3_1



201204R3_1 - ST201204R3_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
20	13C-1,2,3,4,7,8-HxCDD	4.61e5	7.83e5	1.24	1.28	NO	0.8205	34.04	34.04	NO	1.014	1.014	94.8	94.8	NO
21	13C-1,2,3,6,7,8-HxCDD	6.10e5	7.83e5	1.24	1.27	NO	0.7340	34.16	34.16	NO	1.017	1.017	106	106	NO
22	13C-1,2,3,7,8,9-HxCDD	5.68e5	7.83e5	1.24	1.25	NO	0.7226	34.44	34.43	NO	1.026	1.025	100	100	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.09e5	7.83e5	1.04	1.07	NO	0.5677	37.91	37.91	NO	1.129	1.129	92.1	92.1	NO
24	13C-OCDD	6.04e5	7.83e5	0.89	0.86	NO	0.4958	40.82	40.82	NO	1.216	1.216	176	88.0	NO
25	13C-2,3,7,8-TCDF	1.37e6	1.47e6	0.77	0.76	NO	0.9190	25.27	25.28	NO	1.003	1.004	101	101	NO
26	13C-1,2,3,7,8-PeCDF	9.90e5	1.47e6	1.55	1.56	NO	0.7151	29.45	29.46	NO	1.169	1.169	94.7	94.7	NO
27	13C-2,3,4,7,8-PeCDF	9.75e5	1.47e6	1.55	1.58	NO	0.6885	30.52	30.53	NO	1.212	1.212	96.1	96.1	NO
28	13C-1,2,3,4,7,8-HxCDF	6.56e5	7.83e5	0.51	0.51	NO	0.8734	33.15	33.14	NO	0.987	0.987	95.9	95.9	NO
29	13C-1,2,3,6,7,8-HxCDF	7.17e5	7.83e5	0.51	0.51	NO	0.9335	33.28	33.28	NO	0.991	0.991	96.1	96.1	NO
30	13C-2,3,4,6,7,8-HxCDF	6.42e5	7.83e5	0.51	0.51	NO	0.8430	33.94	33.94	NO	1.011	1.011	97.3	97.3	NO
31	13C-1,2,3,7,8,9-HxCDF	5.42e5	7.83e5	0.51	0.50	NO	0.7799	34.93	34.92	NO	1.040	1.040	88.7	88.7	NO
32	13C-1,2,3,4,6,7,8-HpCDF	4.96e5	7.83e5	0.44	0.43	NO	0.7285	36.49	36.49	NO	1.067	1.066	87.3	87.3	NO
33	13C-1,2,3,4,7,8,9-HpCDF	3.28e5	7.83e5	0.44	0.43	NO	0.4911	38.54	38.54	NO	1.148	1.148	85.2	85.2	NO



Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

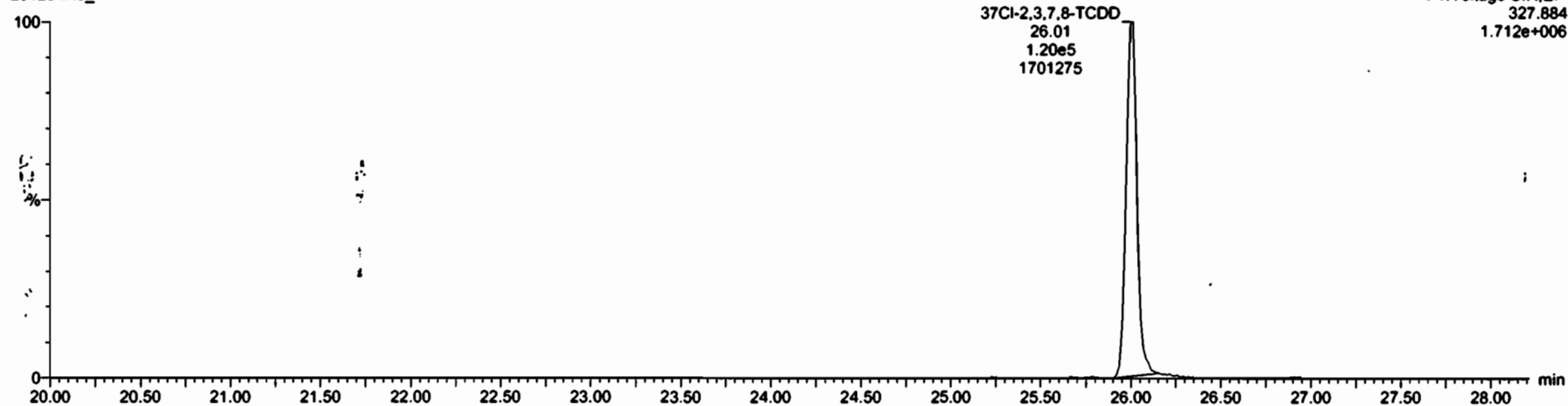
Last Altered: Saturday, December 05, 2020 10:31:34 Pacific Standard Time

Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

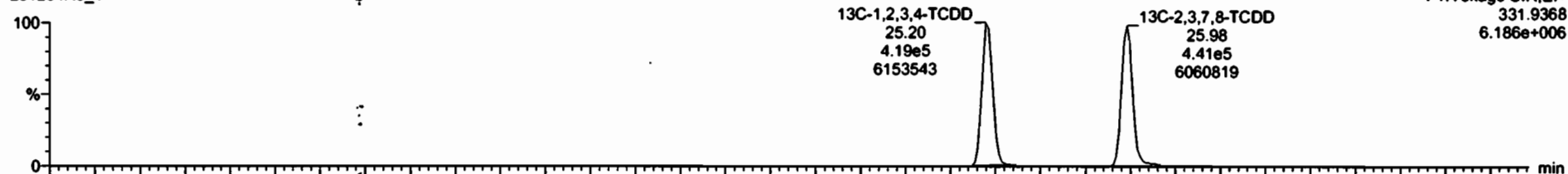
37Cl-2,3,7,8-TCDD

201204R3_1

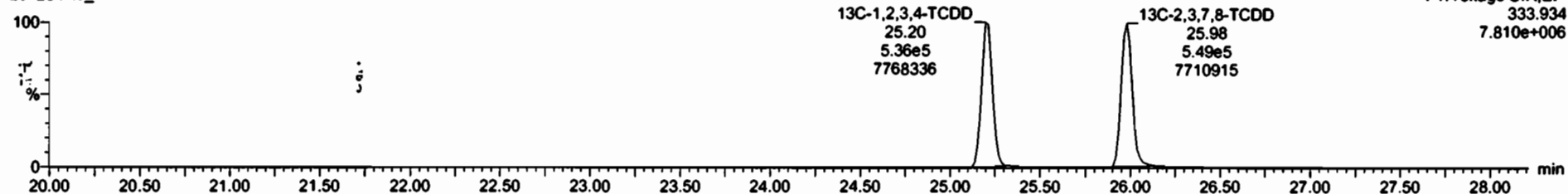


13C-1,2,3,4-TCDD

201204R3_1



201204R3_1



Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

Last Altered: Saturday, December 05, 2020 10:31:34 Pacific Standard Time
Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

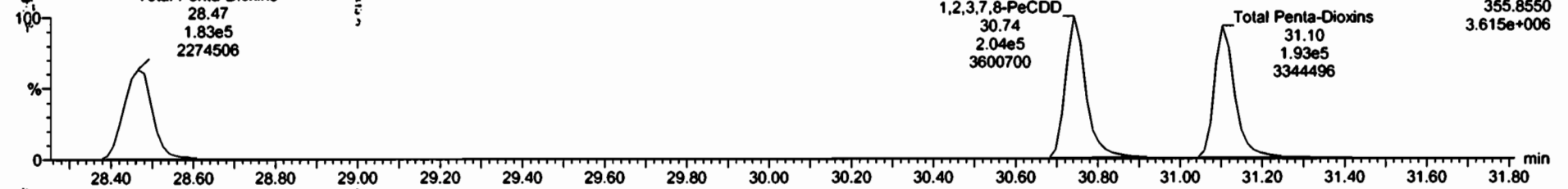
Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,2,3,7,8-PeCDD

201204R3_1



201204R3_1

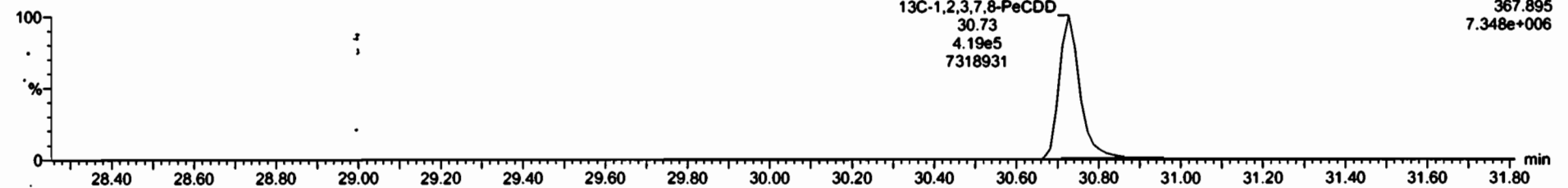


13C-1,2,3,7,8-PeCDD

201204R3_1



201204R3_1



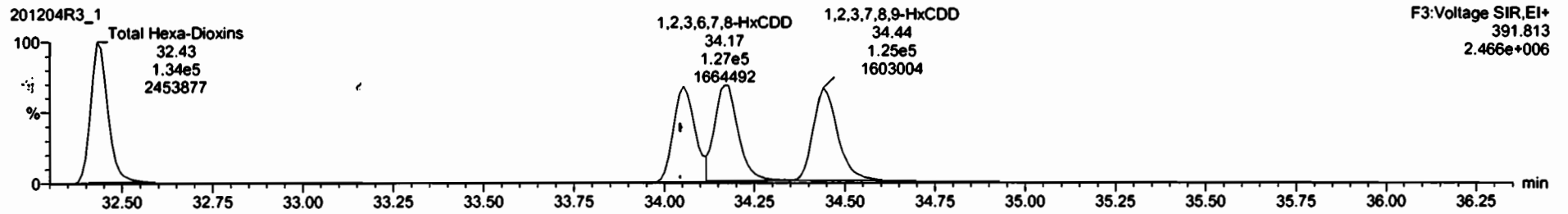
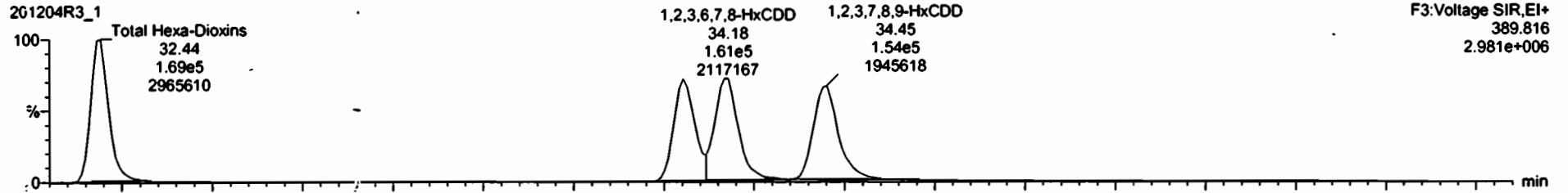
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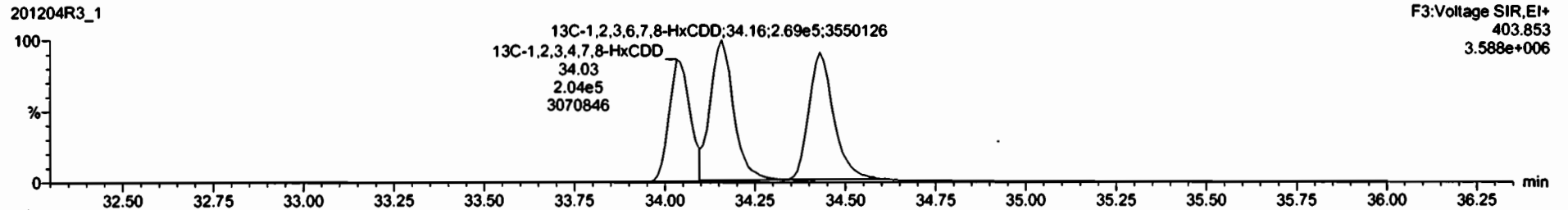
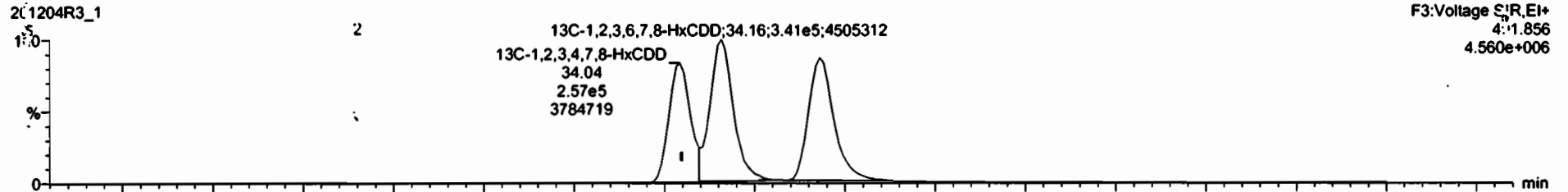
Printed: Monday, December 07, 2020 11:39:43 AM Pacific Standard Time

Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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



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



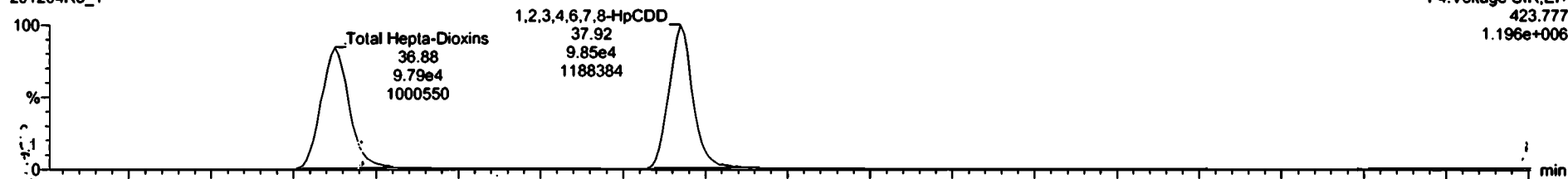
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Last Altered: Saturday, December 05, 2020 10:31:34 Pacific Standard Time
Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

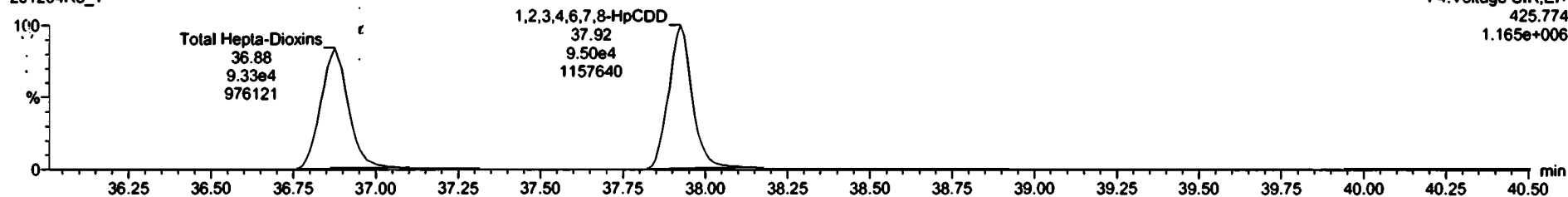
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1,2,3,4,6,7,8-HpCDD

201204R3_1

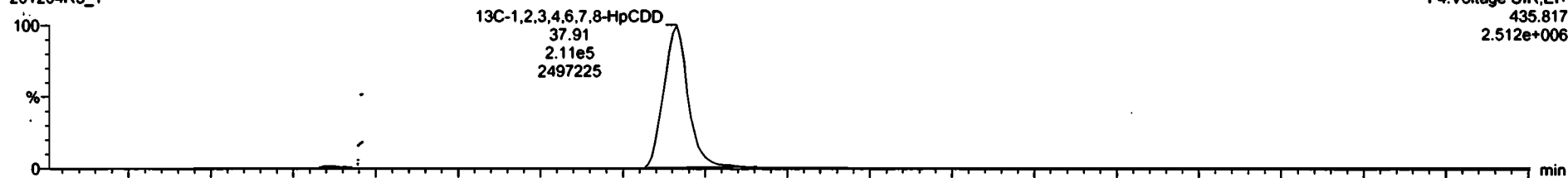


201204R3_1

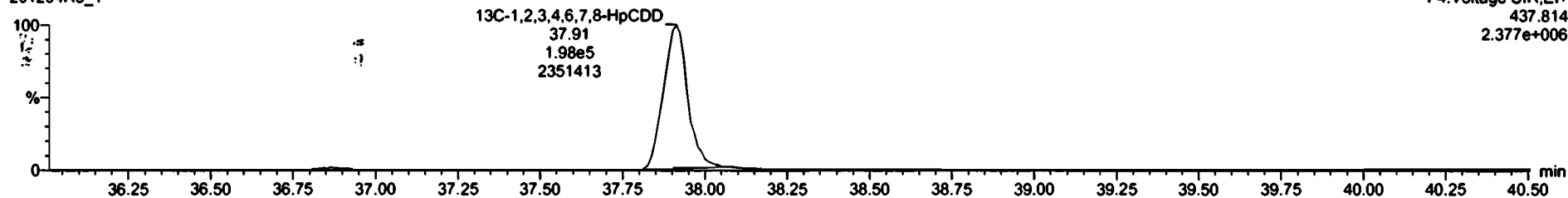


13C-1,2,3,4,6,7,8-HpCDD

201204R3_1



201204R3_1



Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

Last Altered: Saturday, December 05, 2020 10:31:34 Pacific Standard Time

Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

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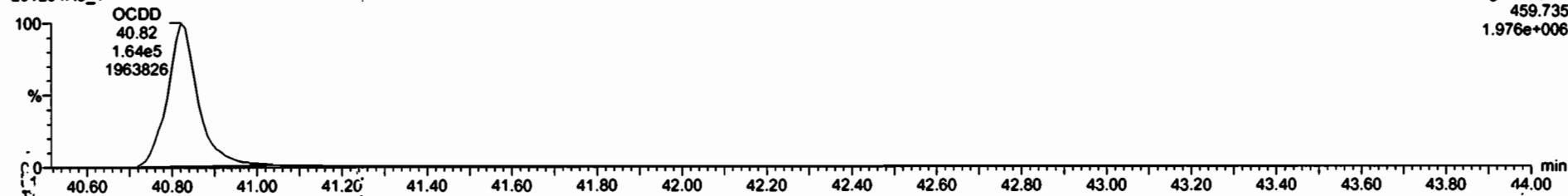
OCDD

201204R3_1



F5:Voltage SIR,EI+
457.738
1.707e+006

201204R3_1



F5:Voltage SIR,EI+
459.735
1.976e+006

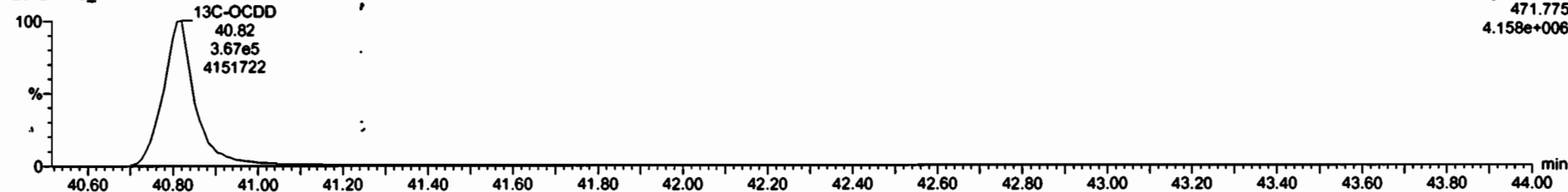
13C-OCDD

201204R3_1



F5:Voltage SIR,EI+
469.778
3.589e+006

201204R3_1



F5:Voltage SIR,EI+
471.775
4.158e+006

201204R3_1 ST201204R3_1 1613 CS3 20L0301 1613 CS3 20L0301

#	Name	Resp	IS Resp	Pred RA	RA	aly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT'	Conc	%Rec	STD out
2	1,2,3,7,8-PeCDD	3.29e5	8.82e5	0.63	0.61	NO	0.9320	38.78	38.74	NO	1.001	1.000	51.7	103	NO
3	1,2,3,4,7,8-HxCDD	2.57e5	4.61e5	1.24	1.25	NO	1.0203	34.06	34.05	NO	1.001	1.000	54.8	109	NO
4	1,2,3,6,7,8-HxCDD	2.88e5	6.10e5	1.24	1.26	NO	0.9025	34.18	34.18	NO	1.001	1.001	52.4	105	NO
5	1,2,3,4,8,9-HxCDD	2.78e5	5.66e5	1.24	1.24	NO	0.9542	34.44	34.45	NO	1.000	1.001	51.5	103	NO
6	1,2,3,4,8,9-HxCDF	1.93e5	4.09e5	1.04	1.04	NO	0.9180	37.92	37.92	NO	1.000	1.000	51.5	103	NO
7	OCDD	3.11e5	6.75e5	0.80	0.90	NO	0.8658	40.83	40.83	NO	1.000	1.001	107	107	NO
8	2,3,7,8-TCDF	1.24e5	1.37e5	0.77	0.78	NO	0.8480	25.29	25.30	NO	1.000	1.001	10.7	107	NO
9	1,2,3,7,8-PeCDF	5.03e5	9.89e5	1.55	1.60	NO	0.9597	29.48	29.48	NO	1.000	1.001	52.5	105	NO
10	2,3,4,7,8-PeCDF	5.49e5	9.75e5	1.55	1.59	NO	1.0671	30.55	30.55	NO	1.001	1.000	52.8	106	NO
11	1,2,3,4,7,8-HxCDF	3.38e5	6.58e5	1.24	1.22	NO	0.9659	33.15	33.15	NO	1.000	1.000	52.3	105	NO
12	1,2,3,6,7,8-HxCDF	3.90e5	7.17e5	1.24	1.24	NO	1.0388	33.30	33.29	NO	1.001	1.000	52.4	105	NO
13	2,3,4,6,7,8-HxCDF	3.40e5	6.42e5	1.24	1.23	NO	1.0202	33.98	33.95	NO	1.001	1.000	51.8	104	NO
14	1,2,3,7,8,9-HxCDF	2.73e5	5.42e5	1.24	1.27	NO	0.9909	34.93	34.93	NO	1.000	1.000	50.9	102	NO
15	1,2,3,4,6,7,8-HpCDF	2.70e5	4.96e5	1.04	1.02	NO	1.0492	36.50	36.50	NO	1.000	1.000	51.9	104	NO



Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

Last Altered: Saturday, December 05, 2020 10:31:34 Pacific Standard Time
Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

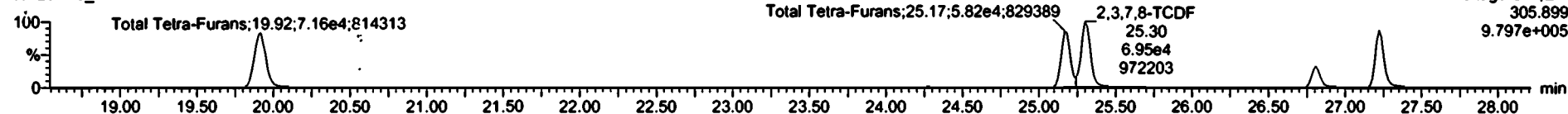
Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDF

201204R3_1

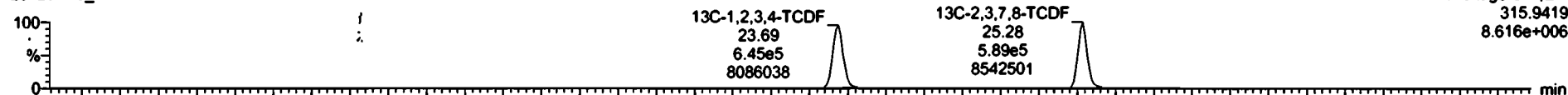


201204R3_1

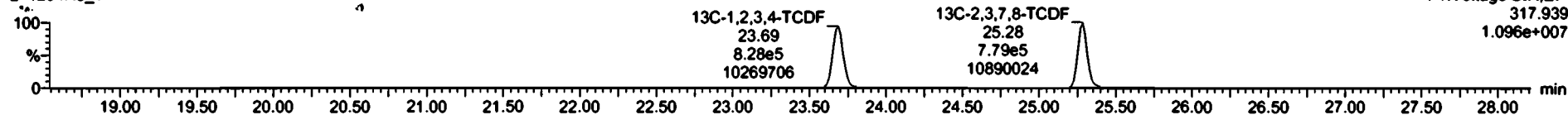


13C-2,3,7,8-TCDF

201204R3_1

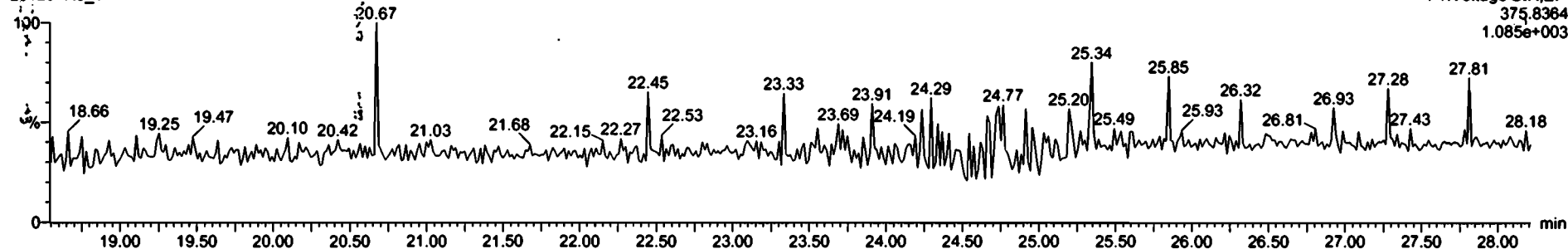


201204R3_1



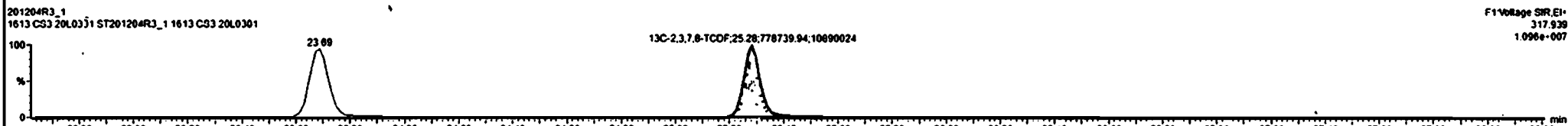
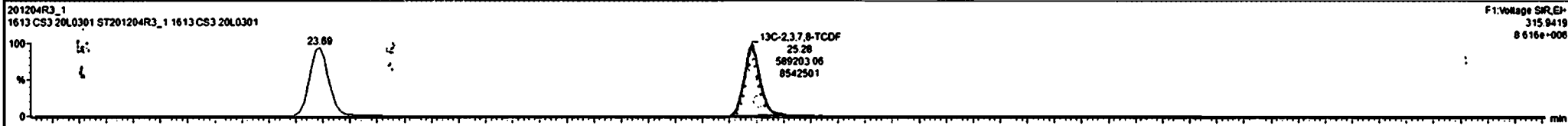
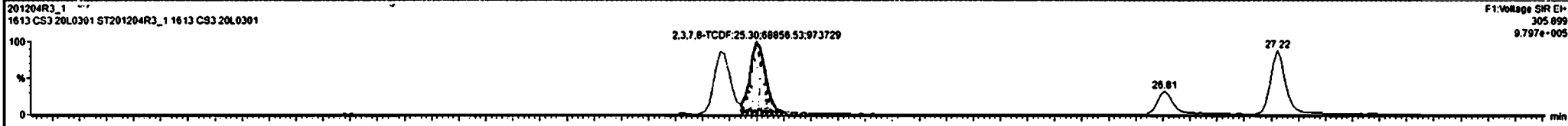
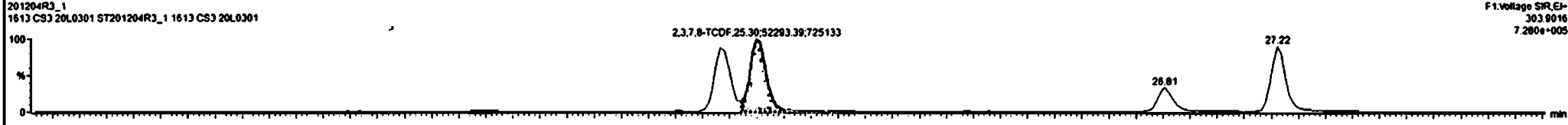
DPE1

201204R3_1



201204R3_1 - ST201204R3_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Name	Resp	S Resp	Pred RA	RA	aly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
2	1,2,3,7,8-PnCDD	3.29e5	6.82e5	0.63	0.61	NO	0.9320	30.76	30.74	NO	1.001	1.000	51.7	103	NO
3	1,2,3,4,7,8-HxCDD	2.57e5	4.61e5	1.24	1.25	NO	1.0203	34.06	34.05	NO	1.001	1.000	54.6	109	NO
4	1,2,3,6,7,8-HxCDD	2.88e5	8.10e5	1.24	1.26	NO	0.9025	34.18	34.18	NO	1.001	1.001	52.4	105	NO
5	1,2,3,7,8,9-HxCDD	2.79e5	5.68e5	1.24	1.24	NO	0.9542	34.44	34.45	NO	1.000	1.001	51.5	103	NO
6	1,2,3,4,6,7,8-HpCDD	1.93e5	4.99e5	1.04	1.04	NO	0.9180	37.92	37.92	NO	1.000	1.000	51.5	103	NO
7	OCDD	3.11e5	6.75e5	0.89	0.90	NO	0.8858	40.83	40.83	NO	1.000	1.000	107	107	NO
8	2,3,7,8-TCDF	1.21e5	1.37e6	0.77	0.76	NO	0.8460	25.29	25.30	NO	1.000	1.001	10.4	104	NO
9	1,2,3,7,8-PyCDF	5.03e5	9.96e5	1.55	1.60	NO	0.9597	29.46	29.48	NO	1.000	1.001	52.5	105	NO
10	2,3,4,7,8-PyCDF	5.49e5	9.75e5	1.55	1.59	NO	1.0671	30.55	30.55	NO	1.001	1.000	52.8	106	NO
11	1,2,3,4,7,8-HxCDF	3.38e5	6.56e5	1.24	1.22	NO	0.9859	33.15	33.15	NO	1.000	1.000	52.3	105	NO
12	1,2,3,6,7,8-HxCDF	3.90e5	7.17e5	1.24	1.24	NO	1.0380	33.30	33.29	NO	1.001	1.000	52.4	105	NO
13	2,3,4,6,7,8-HxCDF	3.40e5	6.42e5	1.24	1.23	NO	1.0202	33.95	33.95	NO	1.001	1.000	51.8	104	NO
14	1,2,3,7,8,9-HxCDF	2.73e5	5.42e5	1.24	1.27	NO	0.9909	34.83	34.93	NO	1.000	1.000	50.9	102	NO
15	1,2,3,4,6,7,8-HpCDF	2.70e5	4.96e5	1.04	1.02	NO	1.0492	36.50	36.50	NO	1.000	1.000	51.9	104	NO



201204R3_1 [CAP NUM]

Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

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Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

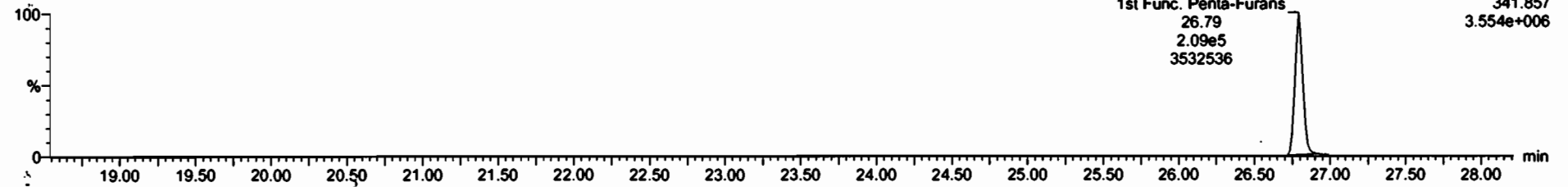
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1st Func. Penta-Furans

201204R3_1

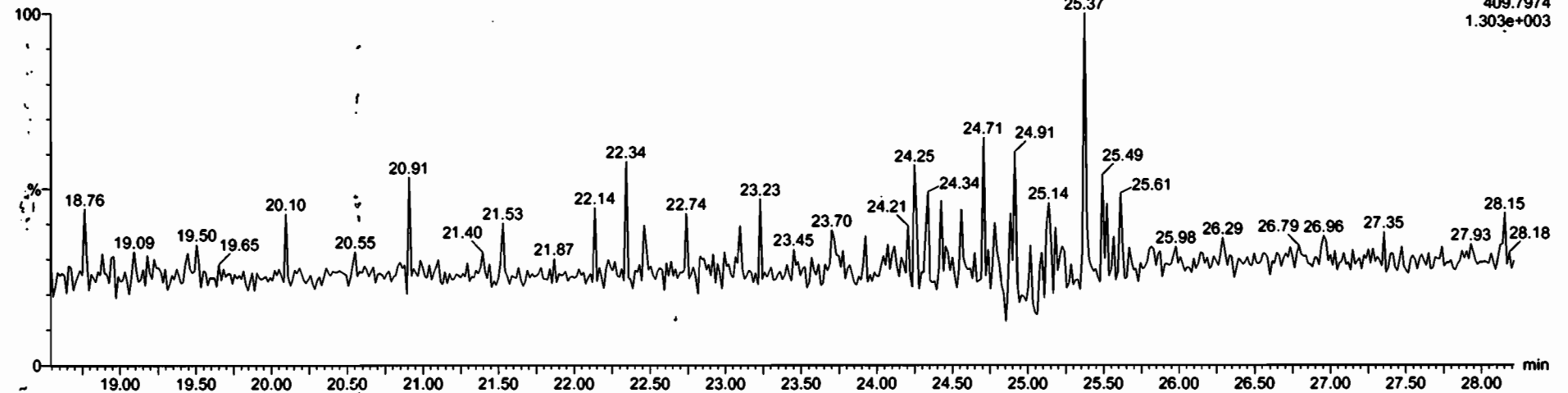


201204R3_1



DPE6

201204R3_1



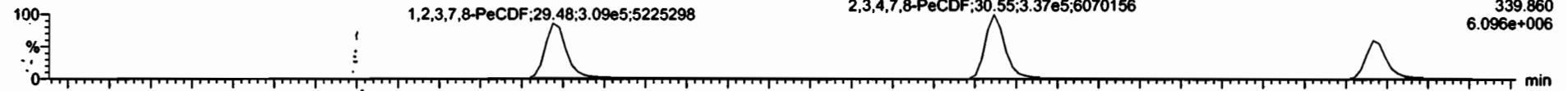
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Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

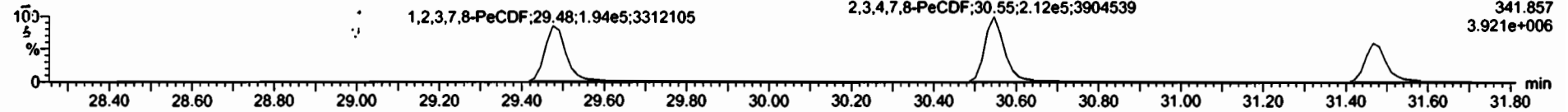
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1,2,3,7,8-PeCDF

201204R3_1

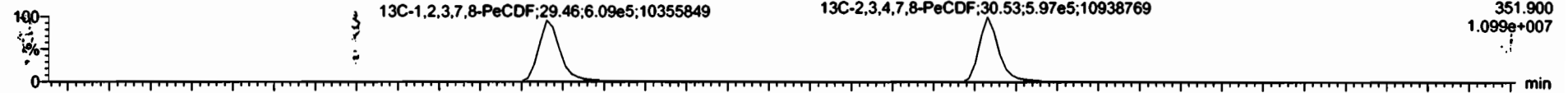


201204R3_1

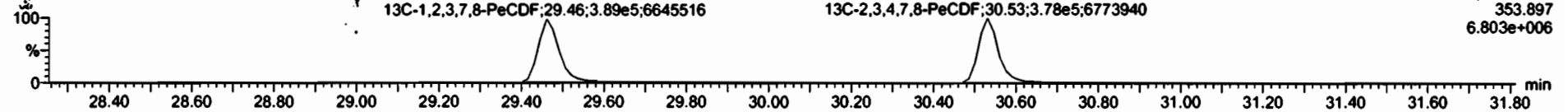


13C-1,2,3,7,8-PeCDF

201204R3_1

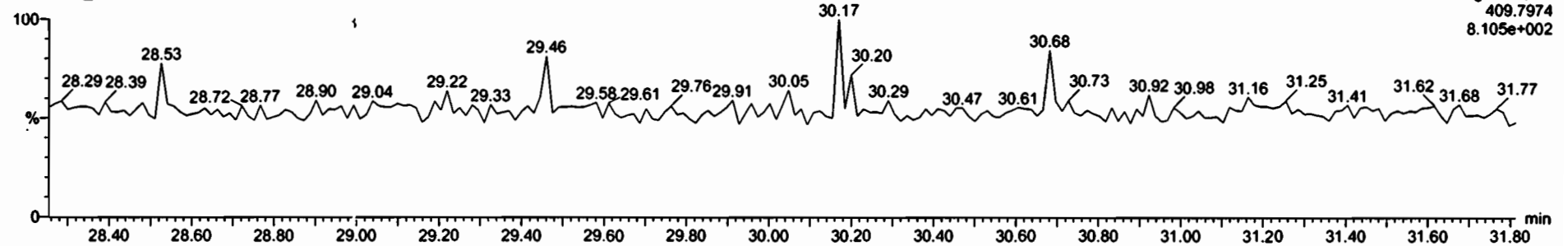


201204R3_1



DPE2

201204R3_1



Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

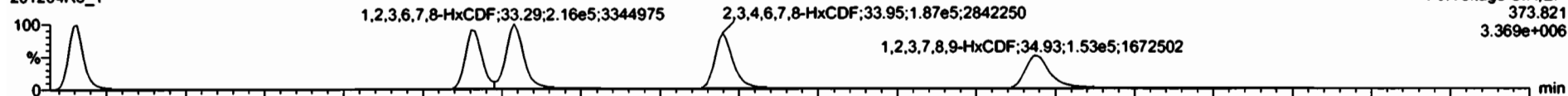
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Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

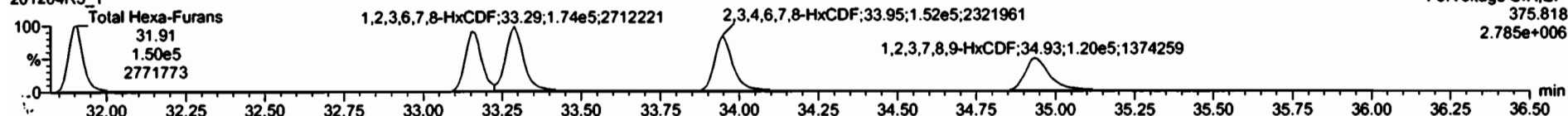
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1,2,3,4,7,8-HxCDF

201204R3_1

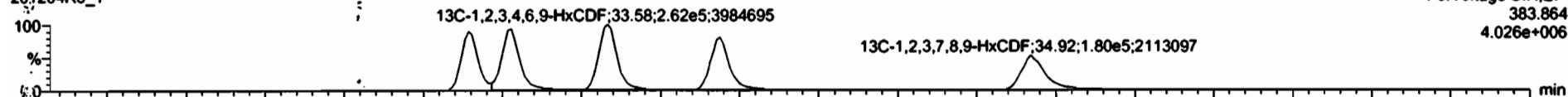


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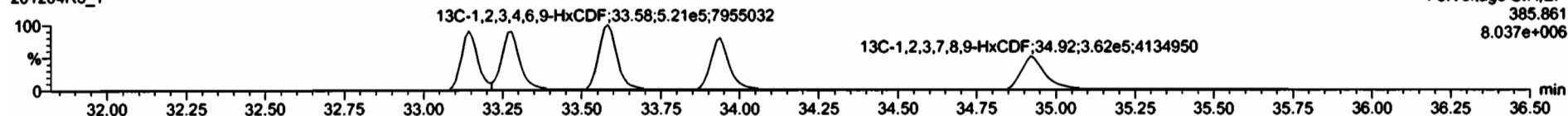


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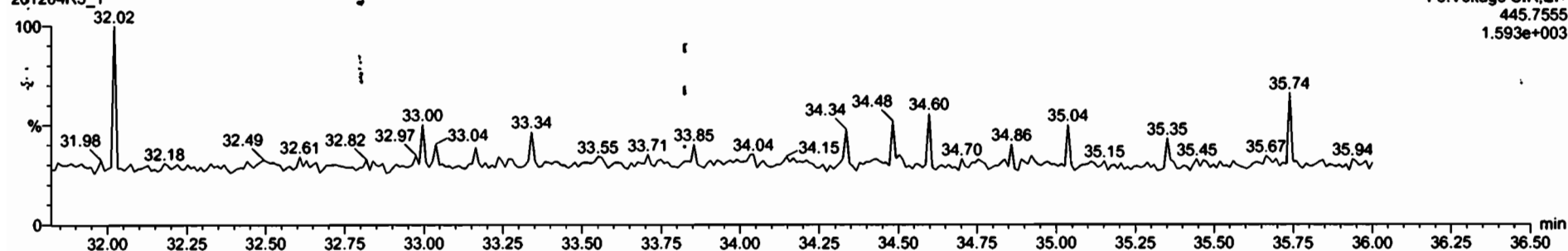


201204R3_1

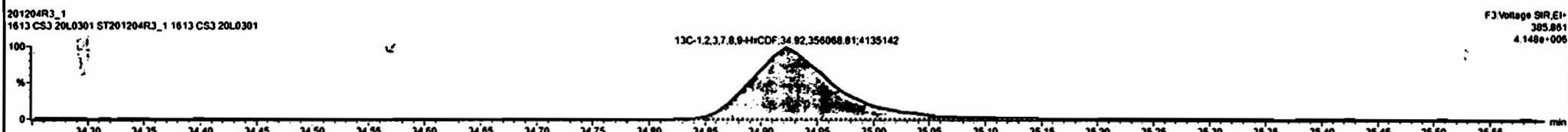
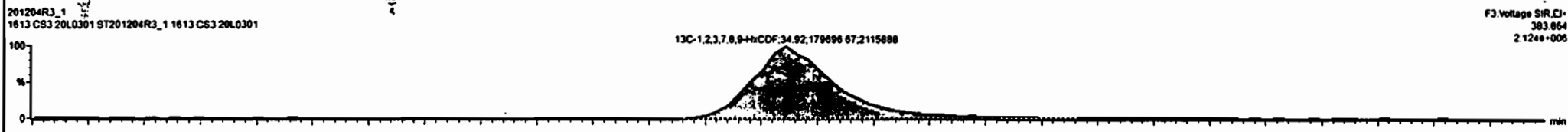
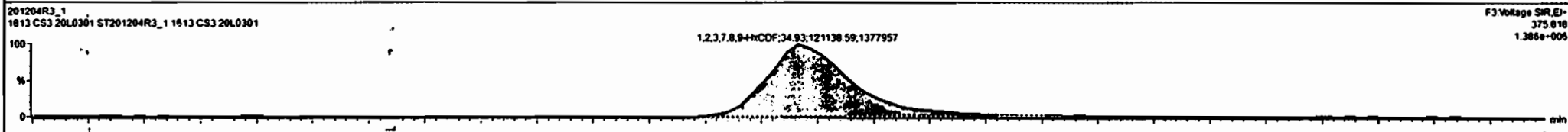
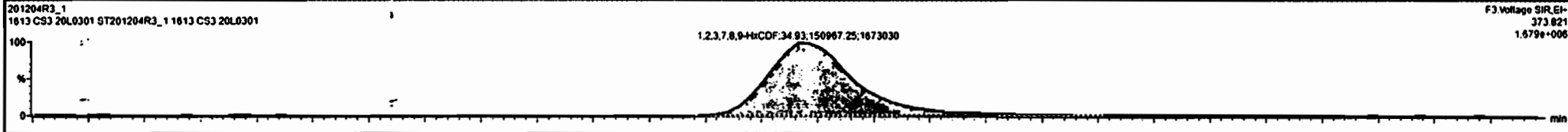


DPE3

201204R3_1



#	Name	Reop	IS Reop	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
2	1,2,3,7,8-PeCDD	3.29e5	6.82e5	0.63	0.61	NO	0.9320	30.76	30.74	NO	1.001	1.000	51.7	103	NO
3	1,2,3,4,7,8-HxCDD	2.57e5	4.61e5	1.24	1.25	NO	1.0203	34.06	34.05	NO	1.001	1.000	54.6	109	NO
4	1,2,3,6,7,8-HxCDD	2.88e5	6.10e5	1.24	1.26	NO	0.9025	34.18	34.18	NO	1.001	1.001	52.4	105	NO
5	1,2,3,7,8,9-HxCDD	2.79e5	5.68e5	1.24	1.24	NO	0.9542	34.44	34.45	NO	1.000	1.001	51.5	103	NO
6	1,2,3,4,6,7,8-HpCDD	1.93e5	4.09e5	1.04	1.04	NO	0.9180	37.92	37.92	NO	1.000	1.000	51.5	103	NO
7	OCDD	3.11e5	6.75e5	0.89	0.90	NO	0.8858	40.83	40.83	NO	1.000	1.000	107	107	NO
8	2,3,7,8-TCDF	1.21e5	1.37e6	0.77	0.76	NO	0.8480	25.29	25.20	NO	1.000	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	5.03e5	9.06e5	1.55	1.60	NO	0.9597	29.46	29.48	NO	1.000	1.001	52.5	105	NO
10	2,3,4,7,8-PeCDF	5.49e5	9.75e5	1.56	1.59	NO	1.0671	30.55	30.55	NO	1.001	1.000	52.8	106	NO
11	1,2,3,4,7,8-HxCDF	3.38e5	6.56e5	1.24	1.22	NO	0.9859	33.15	33.15	NO	1.000	1.000	52.3	105	NO
12	1,2,3,6,7,8-HxCDF	3.90e5	7.17e5	1.24	1.24	NO	1.0308	33.30	33.29	NO	1.001	1.000	52.4	105	NO
13	2,3,4,6,7,8-HxCDF	3.49e5	6.42e5	1.24	1.23	NO	1.0202	33.96	33.95	NO	1.001	1.000	51.8	104	NO
14	1,2,3,7,8,9-HxCDF	2.72e5	5.36e5	1.24	1.25	NO	0.9909	34.93	34.93	NO	1.000	1.000	51.3	103	NO
15	1,2,3,4,6,7,8-HpCDF	2.70e5	4.96e5	1.04	1.02	NO	1.0492	36.50	36.50	NO	1.000	1.000	51.9	104	NO

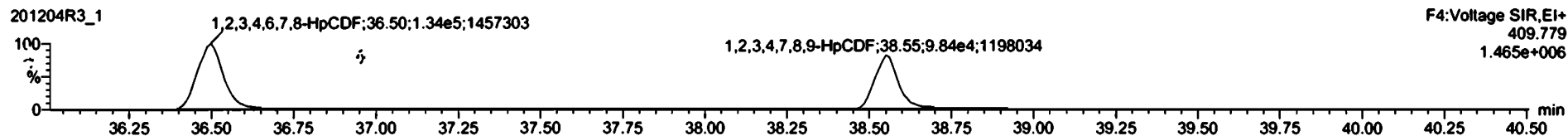
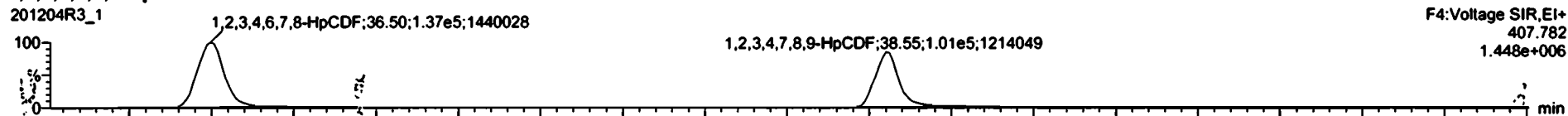


Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

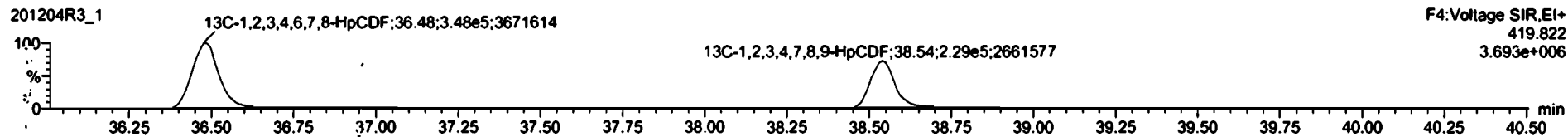
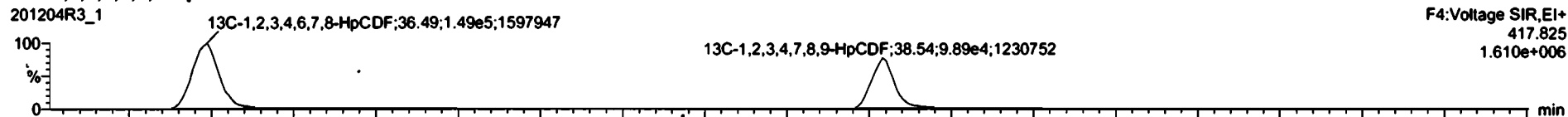
Last Altered: Saturday, December 05, 2020 10:31:34 Pacific Standard Time
Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

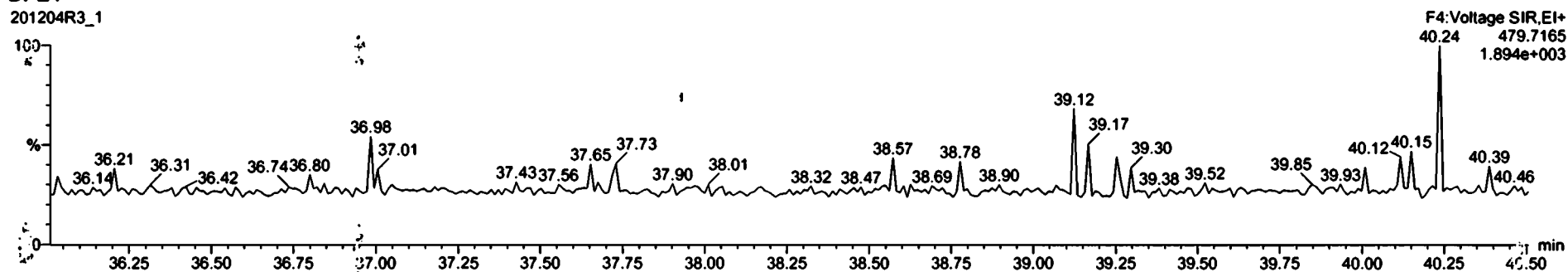
1,2,3,4,6,7,8-HpCDF



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



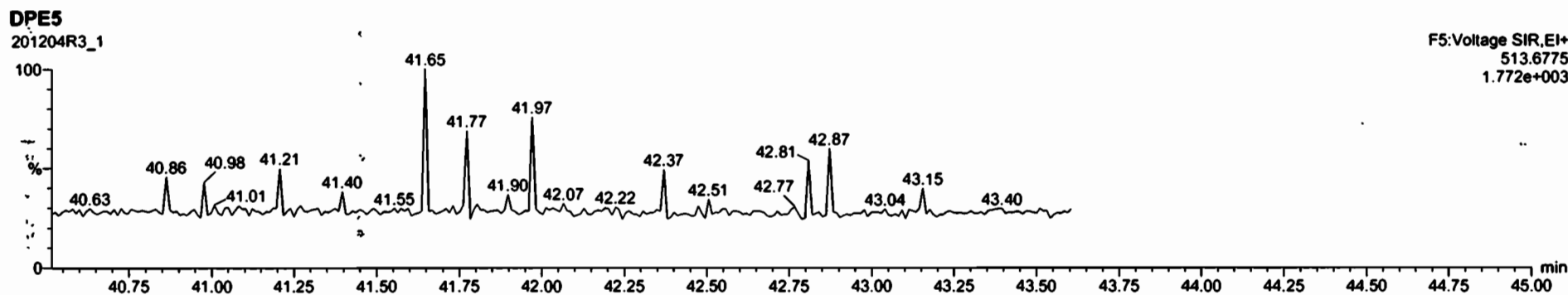
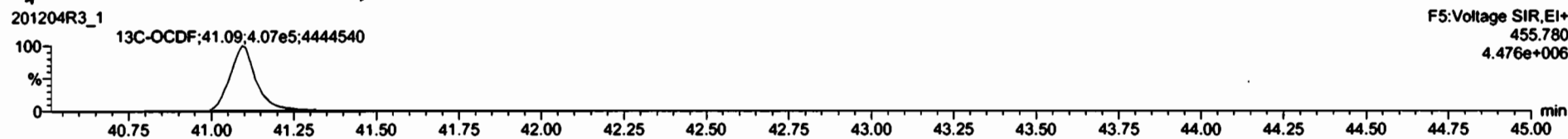
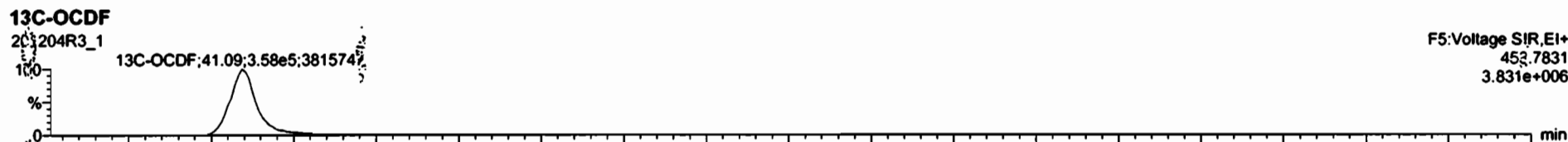
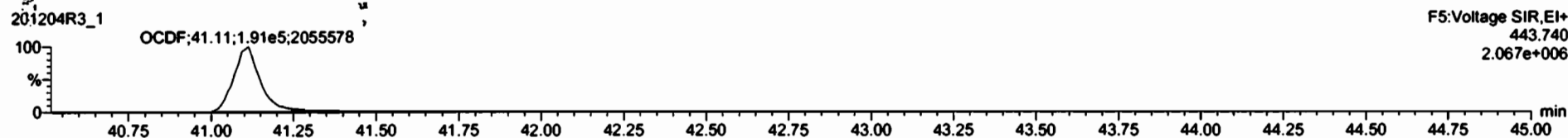
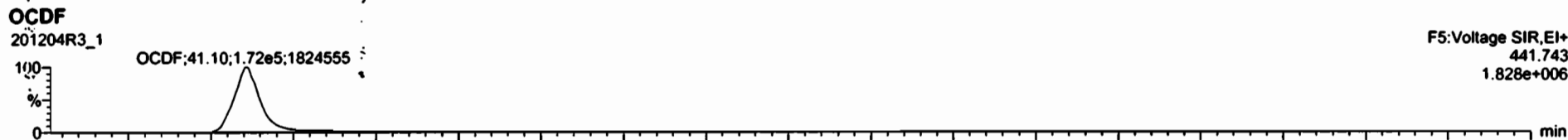
DPE4



Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

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Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301



201204R3_1 - ST201204R3_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Ret	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
16	16	1.23e5	3.28e5	1.04	1.02	NO	1.1759	38.55	38.55	NO	1.000	1.000	51.7	103	NO
17	17	3.62e5	7.69e5	0.80	0.88	NO	0.8960	41.10	41.10	NO	1.000	1.000	105	105	NO
18	18	9.88e5	9.55e5	0.77	0.78	NO	1.0555	25.96	25.96	NO	1.030	1.031	87.8	87.8	NO
19	19	6.82e5	9.55e5	0.63	0.63	NO	0.7847	30.72	30.73	NO	1.219	1.220	91.0	91.8	NO
20	20	4.61e5	7.83e5	1.24	1.26	NO	0.6205	34.04	34.04	NO	1.014	1.014	94.8	94.8	NO
21	21	6.10e5	7.83e5	1.24	1.27	NO	0.7340	34.16	34.18	NO	1.017	1.017	106	106	NO
22	22	5.68e5	7.83e5	1.24	1.25	NO	0.7226	34.44	34.43	NO	1.026	1.025	100	100	NO
23	23	4.09e5	7.83e5	1.04	1.07	NO	0.5677	37.91	37.91	NO	1.129	1.129	92.1	92.1	NO
24	24	6.75e5	7.83e5	0.80	0.88	NO	0.4958	40.82	40.82	NO	1.216	1.216	174	86.9	NO
25	25	1.37e6	1.47e6	0.77	0.76	NO	0.9190	25.27	25.28	NO	1.003	1.004	101	101	NO
26	26	9.98e5	1.47e6	1.55	1.56	NO	0.7151	29.45	29.46	NO	1.169	1.169	94.7	94.7	NO
27	27	9.75e5	1.47e6	1.55	1.56	NO	0.6885	30.52	30.53	NO	1.212	1.212	96.1	96.1	NO
28	28	6.58e5	7.83e5	0.51	0.51	NO	0.8734	33.15	33.14	NO	0.987	0.987	95.9	95.9	NO
29	29	7.17e5	7.83e5	0.51	0.51	NO	0.9335	33.28	33.28	NO	0.991	0.991	96.1	96.1	NO

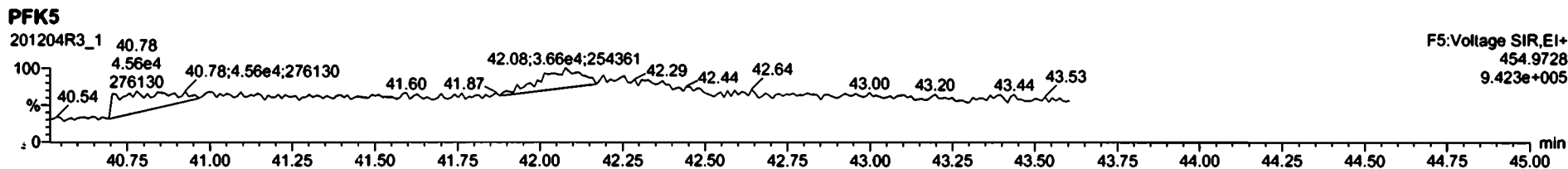
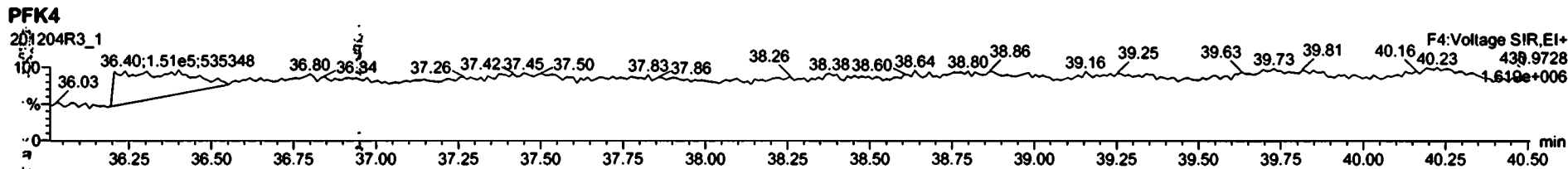
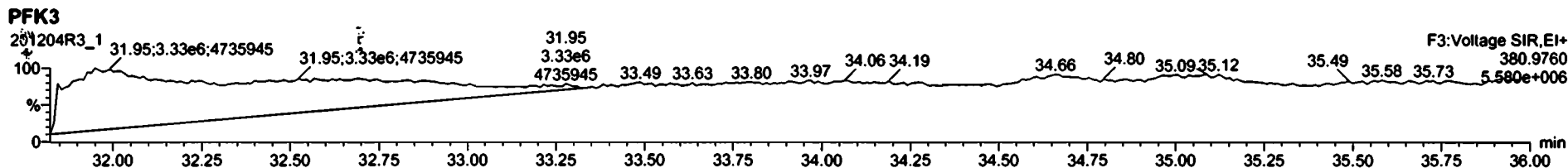
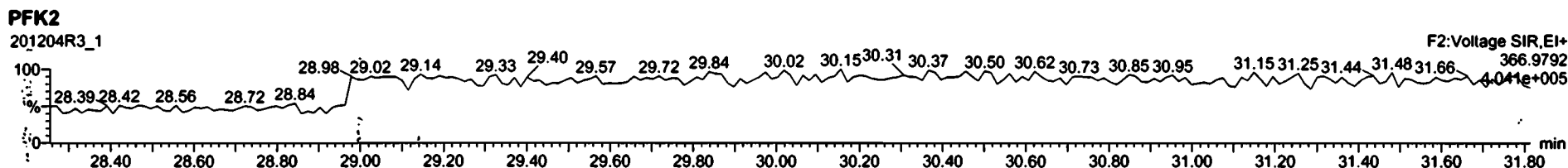
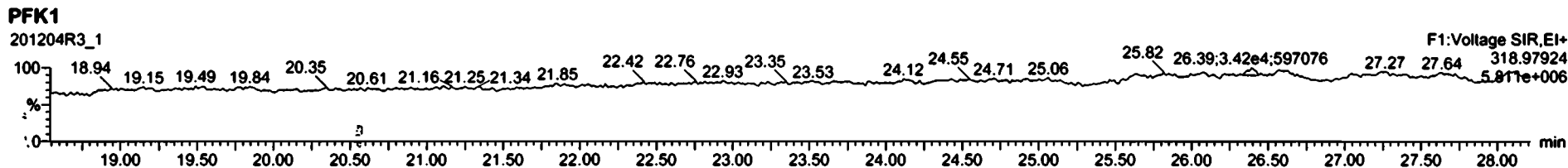


Dataset: U:\VG12.PRO\Results\201204R3\201204R3_1.qld

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Printed: Saturday, December 05, 2020 10:32:57 Pacific Standard Time

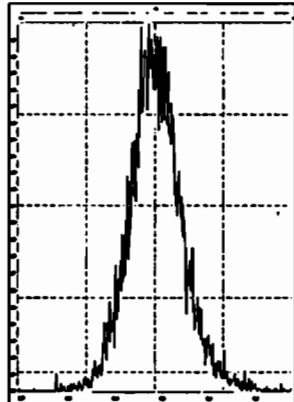
Name: 201204R3_1, Date: 04-Dec-2020, Time: 17:02:44, ID: ST201204R3_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301



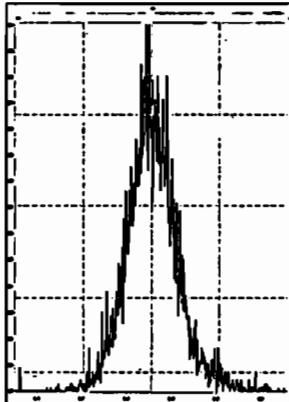
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Printed: Saturday, December 05, 2020 08:22:46 Pacific Standard Time

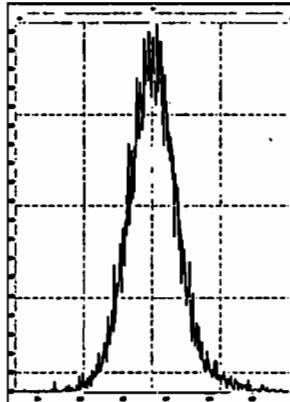
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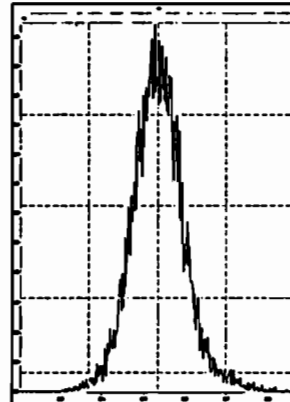
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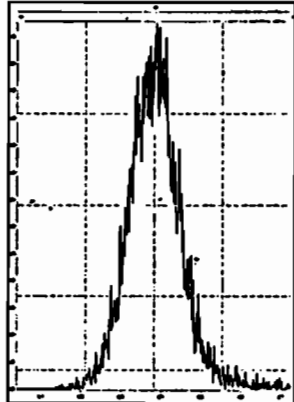
M 318.9792 R 11905



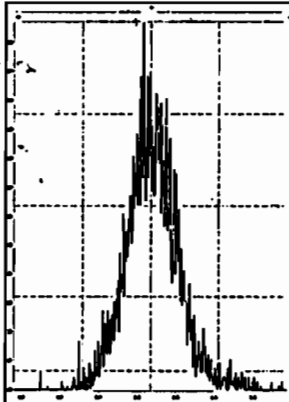
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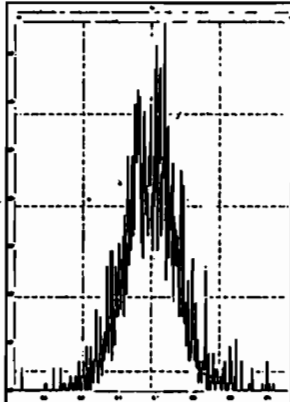
M 342.9792 R 11683



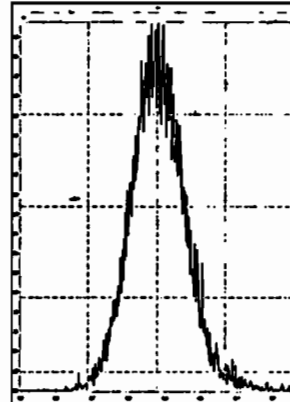
M 354.9792 R 11903



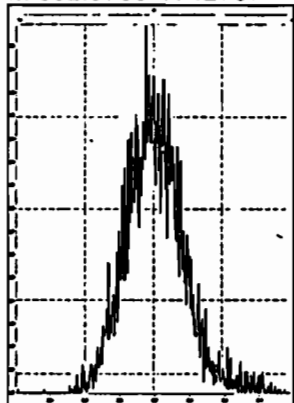
M 366.9792 R 12691



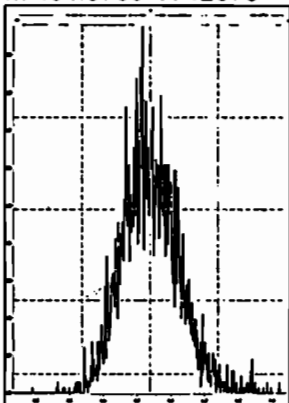
M 380.9760 R 10964



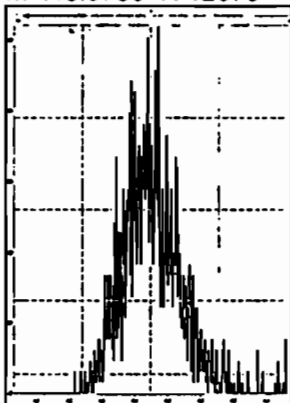
M 392.9760 R 12757



M 404.9760 R 12375



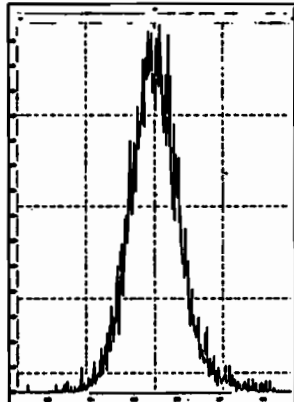
M 416.9760 R 12079



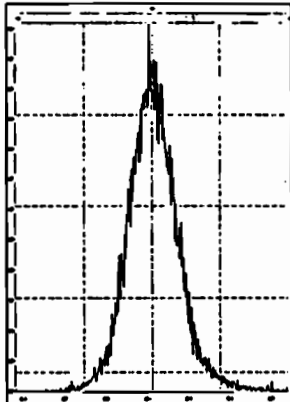
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm).

Printed: Saturday, December 05, 2020 08:23:32 Pacific Standard Time

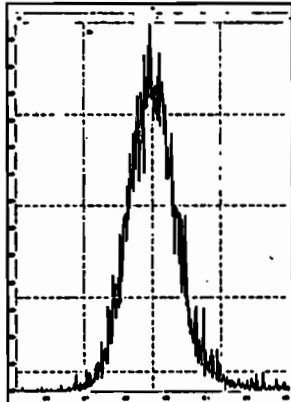
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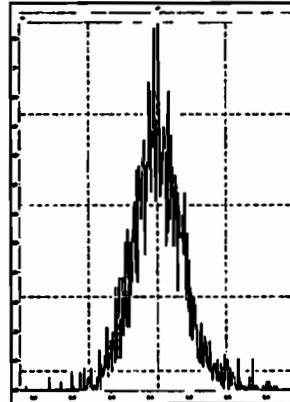
M 330.9792 R 11964



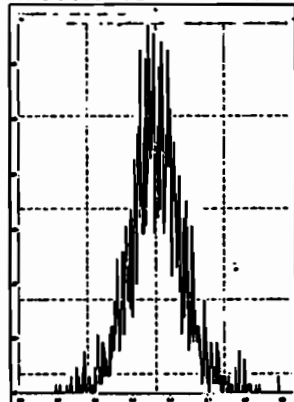
M 342.9792 R 12500



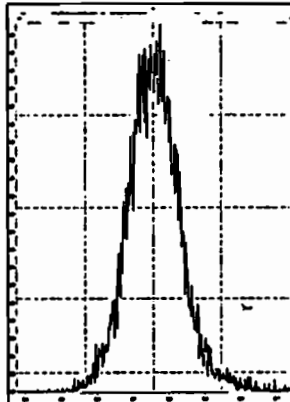
M 354.9792 R 11735



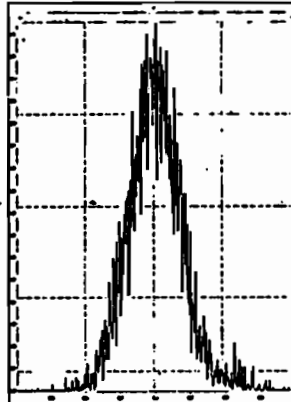
M 366.9792 R 12073



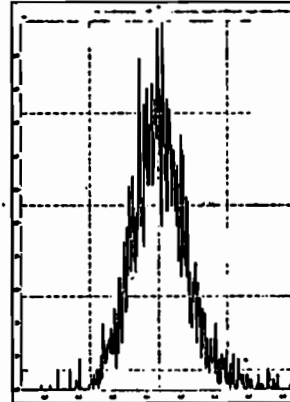
M 380.9760 R 11681



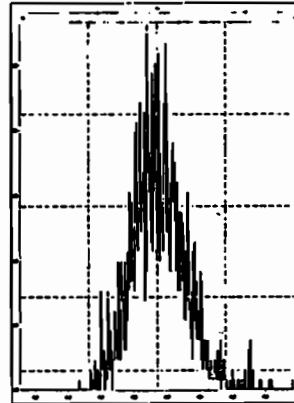
M 392.9760 R 13224



M 404.9760 R 11904



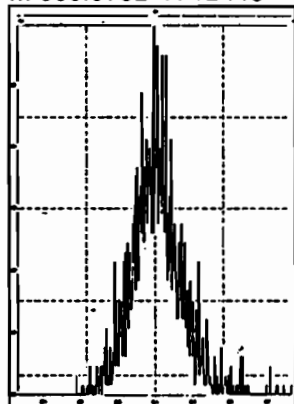
M 416.9760 R 12628



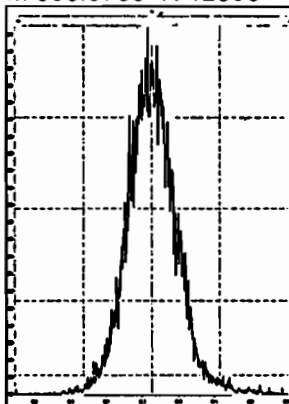
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, December 05, 2020 08:24:20 Pacific Standard Time

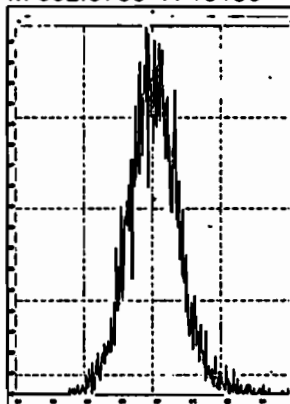
M 366.9792 R 12440



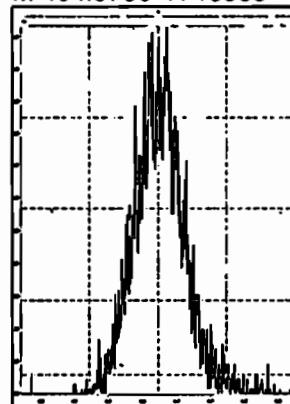
M 380.9760 R 12690



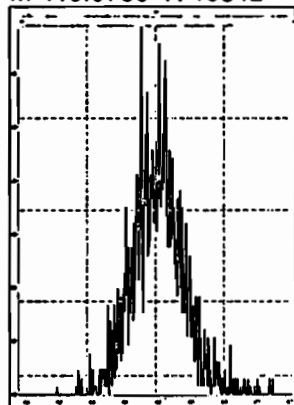
M 392.9760 R 13156



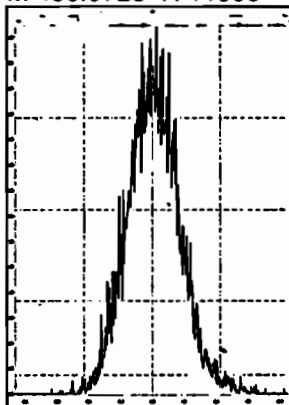
M 404.9760 R 13588



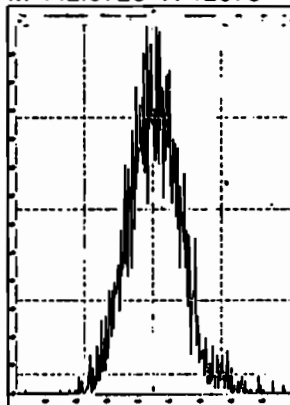
M 416.9760 R 13512



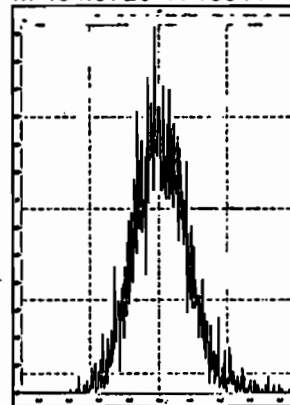
M 430.9728 R 11683



M 442.9728 R 12375



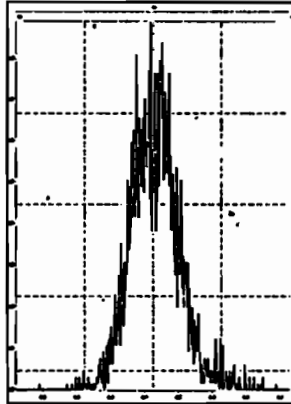
M 454.9728 R 13511



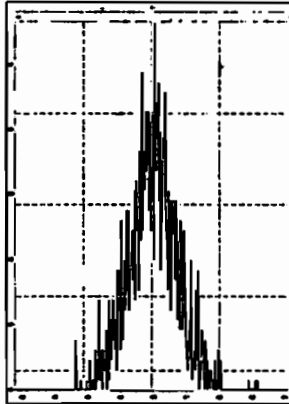
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, December 05, 2020 08:25:01 Pacific Standard Time

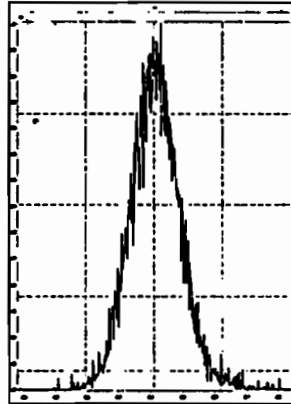
M 404.9760 R 14369



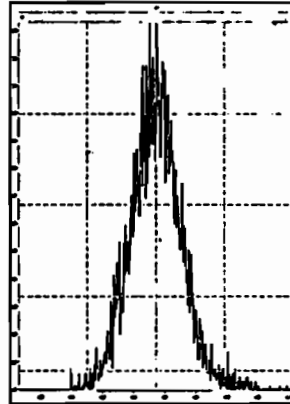
M 416.9760 R 14880



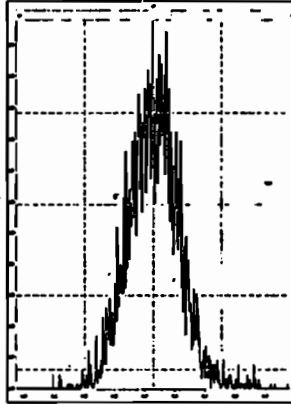
M 430.9728 R 12628



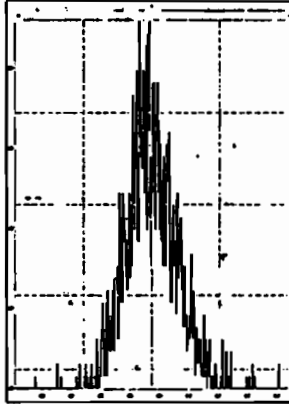
M 442.9728 R 12690



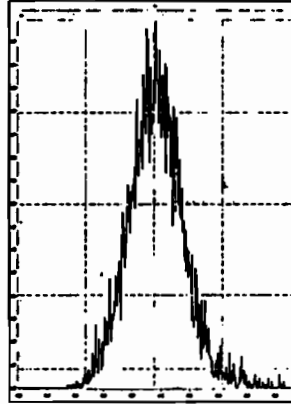
M 454.9728 R 13814



M 466.9728 R 15625



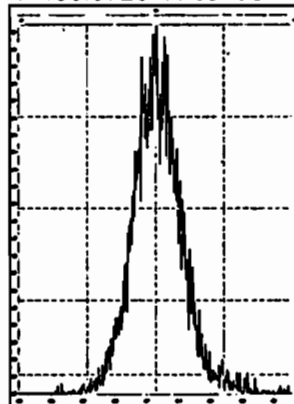
M 480.9696 R 11519



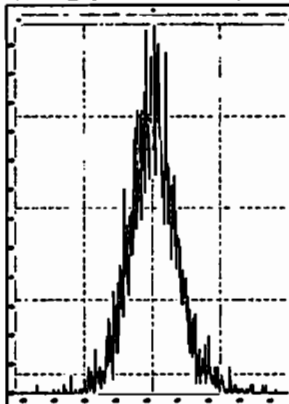
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, December 05, 2020 08:25:53 Pacific Standard Time

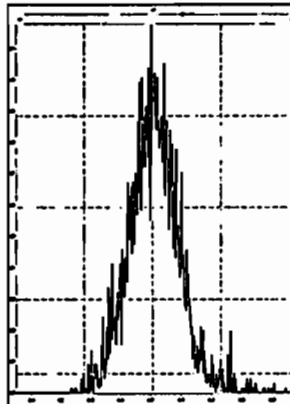
M 430.9728 R 13158



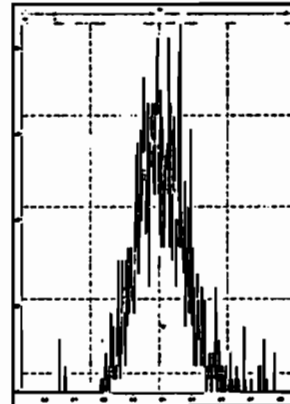
M 442.9728 R 14968



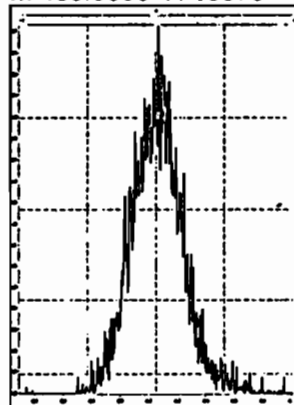
M 454.9728 R 13159



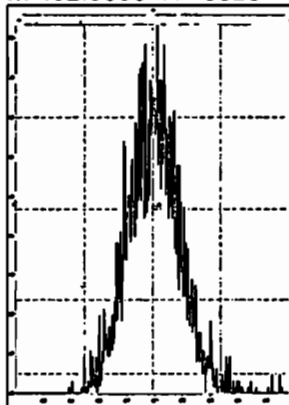
M 466.9728 R 15336



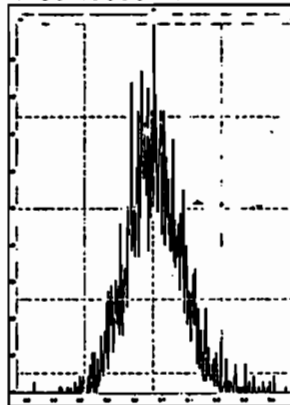
M 480.9696 R 13370



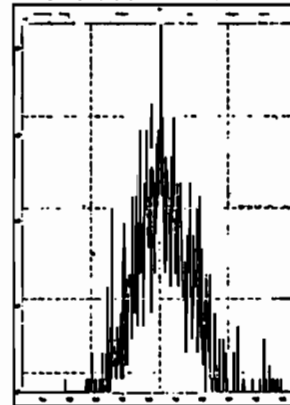
M 492.9696 R 13020



M 504.9696 R 11414



M 516.9697 R 15528



PARAM CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST201206R1-1

Reviewed By: GPB 12/07/2020
Initials & Date

End Calibration ID: ST201206R2-1

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Correct ICAL referenced?	<u>HIN</u>	<u>HIN</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
- Samples within 12 hour clock?	<u>Q</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:
 (A) Information near 1st eluter Hx(DI), GC

Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

Last Altered: Monday, December 07, 2020 09:43:09 Pacific Standard Time
Printed: Monday, December 07, 2020 09:43:43 Pacific Standard Time

HN 12/06/
HN 12/07/2020
GRB 12/07/2020

Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	Resp	IS Resp	RA	only	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	9.93e4	9.99e5	0.77	NO	0.980	26.01	26.01	NO	1.001	1.001	10.133	101	NO
2	2 1,2,3,7,8-PeCDD	3.37e5	6.98e5	0.60	NO	0.932	30.77	30.74	NO	1.001	1.000	51.746	103	NO
3	3 1,2,3,4,7,8-HxCDD	2.88e5	5.01e5	1.26	NO	1.02	34.07	34.06	NO	1.001	1.000	56.303	113	NO
4	4 1,2,3,6,7,8-HxCDD	3.03e5	6.20e5	1.23	NO	0.902	34.19	34.18	NO	1.001	1.000	54.157	108	NO
5	5 1,2,3,7,8,9-HxCDD	2.84e5	5.66e5	1.24	NO	0.954	34.45	34.45	NO	1.000	1.000	52.687	105	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.15e5	4.54e5	1.05	NO	0.918	37.92	37.94	NO	1.000	1.001	51.588	103	NO
7	7 OCDD	3.52e5	7.56e5	0.88	NO	0.866	40.83	40.83	NO	1.000	1.000	107.50	108	NO
8	8 2,3,7,8-TCDF	1.29e5	1.39e6	0.75	NO	0.848	25.29	25.31	NO	1.000	1.001	10.942	109	NO
9	9 1,2,3,7,8-PeCDF	5.40e5	1.05e6	1.60	NO	0.960	29.46	29.49	NO	1.000	1.001	53.639	107	NO
10	10 2,3,4,7,8-PeCDF	5.80e5	1.01e6	1.58	NO	1.07	30.55	30.55	NO	1.001	1.000	53.575	107	NO
11	11 1,2,3,4,7,8-HxCDF	3.92e5	7.38e5	1.23	NO	0.986	33.16	33.16	NO	1.000	1.000	53.928	108	NO
12	12 1,2,3,6,7,8-HxCDF	4.40e5	7.78e5	1.25	NO	1.04	33.30	33.30	NO	1.001	1.001	54.430	109	NO
13	13 2,3,4,6,7,8-HxCDF	3.94e5	7.05e5	1.23	NO	1.02	33.97	33.96	NO	1.001	1.000	54.753	110	NO
14	14 1,2,3,7,8,9-HxCDF	3.41e5	6.32e5	1.27	NO	0.991	34.94	34.95	NO	1.000	1.001	54.465	109	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.12e5	5.49e5	1.02	NO	1.05	36.51	36.51	NO	1.000	1.001	54.241	108	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.62e5	4.07e5	1.05	NO	1.18	38.55	38.56	NO	1.000	1.001	54.768	110	NO
17	17 OCDF	4.52e5	8.96e5	0.90	NO	0.896	41.11	41.12	NO	1.000	1.001	112.59	113	NO
18	18 13C-2,3,7,8-TCDD	9.99e5	9.58e5	0.78	NO	1.06	25.97	25.98	NO	1.030	1.030	98.817	98.8	NO
19	19 13C-1,2,3,7,8-PeCDD	6.98e5	9.58e5	0.62	NO	0.785	30.74	30.74	NO	1.219	1.219	92.910	92.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.01e5	8.35e5	1.28	NO	0.621	34.05	34.05	NO	1.014	1.014	96.687	96.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.20e5	8.35e5	1.27	NO	0.734	34.17	34.17	NO	1.017	1.017	101.19	101	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.66e5	8.35e5	1.26	NO	0.723	34.45	34.44	NO	1.026	1.025	93.725	93.7	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.54e5	8.35e5	1.06	NO	0.568	37.92	37.91	NO	1.129	1.129	95.765	95.8	NO
24	24 13C-OCDD	7.56e5	8.35e5	0.90	NO	0.496	40.83	40.82	NO	1.216	1.215	182.54	91.3	NO
25	25 13C-2,3,7,8-TCDF	1.39e6	1.45e6	0.77	NO	0.919	25.28	25.28	NO	1.003	1.003	104.38	104	NO
26	26 13C-1,2,3,7,8-PeCDF	1.05e6	1.45e6	1.59	NO	0.715	29.47	29.46	NO	1.169	1.169	101.00	101	NO
27	27 13C-2,3,4,7,8-PeCDF	1.01e6	1.45e6	1.58	NO	0.689	30.54	30.53	NO	1.212	1.211	101.52	102	NO
28	28 13C-1,2,3,4,7,8-HxCDF	7.38e5	8.35e5	0.51	NO	0.873	33.16	33.15	NO	0.987	0.987	101.12	101	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.78e5	8.35e5	0.51	NO	0.933	33.29	33.28	NO	0.991	0.991	99.793	99.8	NO
30	30 13C-2,3,4,6,7,8-HxCDF	7.05e5	8.35e5	0.52	NO	0.843	33.95	33.95	NO	1.011	1.011	100.13	100	NO
31	31 13C-1,2,3,7,8,9-HxCDF	6.32e5	8.35e5	0.51	NO	0.780	34.94	34.93	NO	1.040	1.040	96.981	97.0	NO

Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

Last Altered: Monday, December 07, 2020 09:43:09 Pacific Standard Time
 Printed: Monday, December 07, 2020 09:43:43 Pacific Standard Time

Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_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	13C-1,2,3,4,6,7,8-HpCDF	5.49e5	8.35e5	0.44	NO	0.726	36.50	36.49	NO	1.087	1.086	90.443	90.4	NO
33	13C-1,2,3,4,7,8,9-HpCDF	4.07e5	8.35e5	0.43	NO	0.491	38.55	38.54	NO	1.148	1.147	99.346	99.3	NO
34	13C-OCDF	8.96e5	8.35e5	0.90	NO	0.565	41.11	41.10	NO	1.224	1.224	189.85	94.9	NO
35	37Cl-2,3,7,8-TCDD	1.23e5	9.58e5			1.22	26.00	26.01	NO	1.031	1.032	10.527	105	NO
36	13C-1,2,3,4-TCDD	9.58e5	9.58e5	0.79	NO	1.00	25.20	25.21	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	1.45e6	1.45e6	0.79	NO	1.00	23.66	23.69	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	8.35e5	8.35e5	0.52	NO	1.00	33.58	33.59	NO	1.000	1.000	100.00	100	YES <i>GL</i>

Dataset: Untitled

Last Altered: Monday, December 07, 2020 09:47:49 Pacific Standard Time
Printed: Monday, December 07, 2020 09:48:08 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
Calibration: U:\VG12.PRO\CurveDB\dtbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Compound name: 2,3,7,8-TCDD

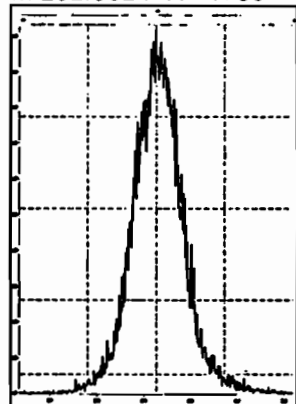
Name	ID	Acq.Date	Acq.Time
201206R1_1	ST201206R1_1 1613 CS3 20L0301	06-Dec-20	10:06:14
201206R1_2	QC TCDF	06-Dec-20	10:54:20
201206R1_3	SOLVENT BLANK	06-Dec-20	11:39:12
201206R1_4	B0K0203-BLK1 Method Blank 1	06-Dec-20	12:24:04
201206R1_5	B0K0196-BLK1 Method Blank 1	06-Dec-20	13:08:56
201206R1_6	2002457-01 Three Mile 10 0.98432	06-Dec-20	13:53:49
201206R1_7	2002426-01 MW-1 0.94165	06-Dec-20	14:38:41
201206R1_8	2002398-01@10X WC-C033-5-7 8.81	06-Dec-20	15:23:33
201206R1_9	2002398-02@10X WC-C034-3-5 9.37	06-Dec-20	16:08:24
201206R1_10	2002375-07RE1 USMPDI-047SC-A-03-04-201...	06-Dec-20	16:53:15
201206R1_11	2002398-10RE1 WC-S045-3-5 6.36	06-Dec-20	17:38:05
201206R1_12	2002426-02 MW-2 0.98564	06-Dec-20	18:22:58
201206R1_13	2002426-03 MW-3 0.95177	06-Dec-20	19:07:47
201206R1_14	2002426-05 MW-5 0.96271	06-Dec-20	19:52:39
201206R1_15	2002426-04 MW-4 0.93504	06-Dec-20	20:37:32
201206R1_16	2002426-06 MW-6 0.9339	06-Dec-20	21:22:23
201206R2_1	SOLVENT BLANK	07-Dec-20	06:54:22
201206R2_2	ST201206R2_1 1613 CS3 20L0301	07-Dec-20	07:41:16
201206R2_3	QC TCDF	07-Dec-20	08:26:11

(A) Instrument paused, manually processed and resolution check next day, and injected end standard H1N12/07/2020

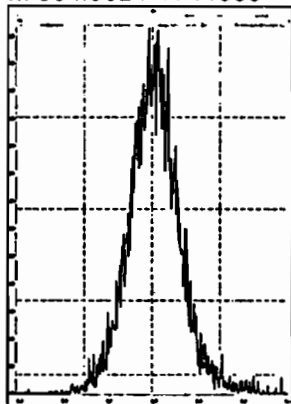
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, December 06, 2020 10:00:32 Pacific Standard Time

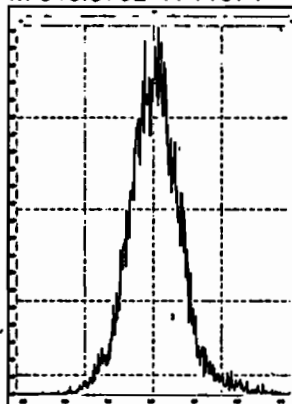
M 292.9824 R 11736



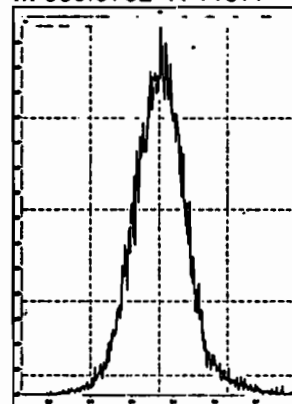
M 304.9824 R 11630



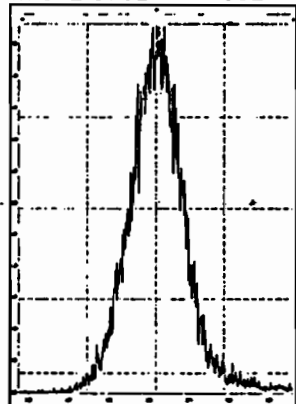
M 318.9792 R 11574



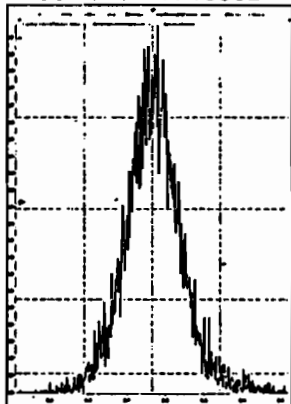
M 330.9792 R 11577



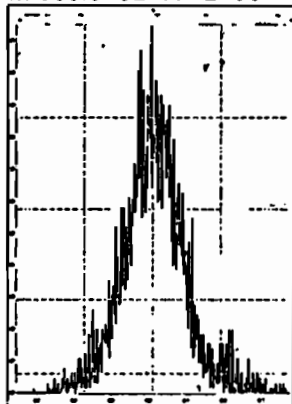
M 342.9792 R 11062



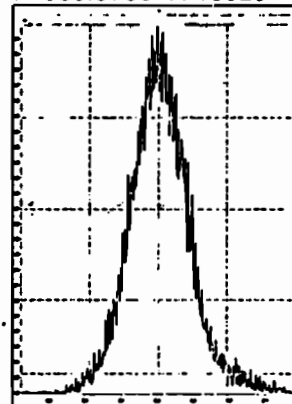
M 354.9792 R 10682



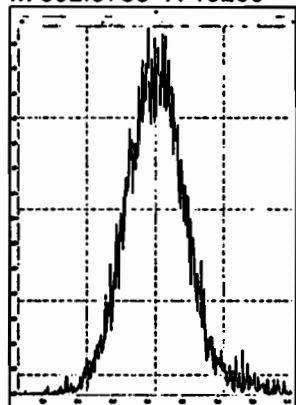
M 366.9792 R 12196



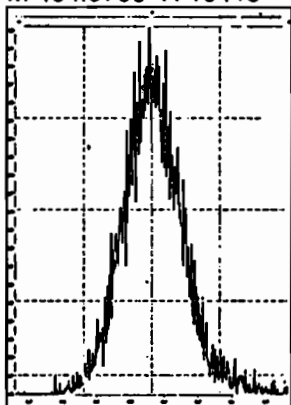
M 380.9760 R 10329



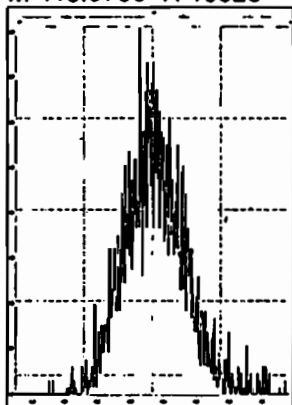
M 392.9760 R 10205



M 404.9760 R 10416



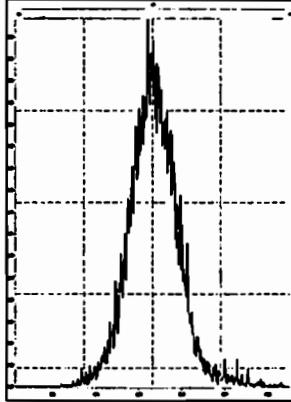
M 416.9760 R 10328



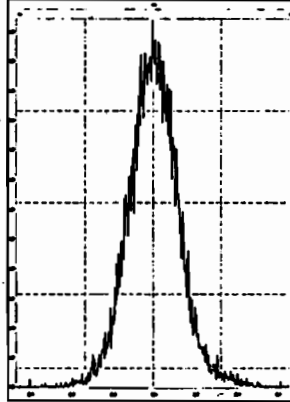
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, December 06, 2020 10:01:40 Pacific Standard Time

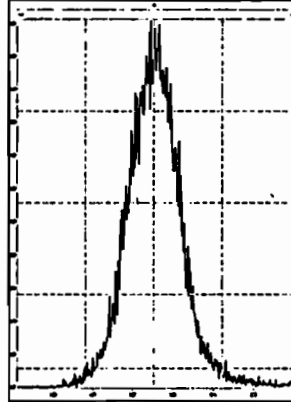
M 318.9792 R 12690



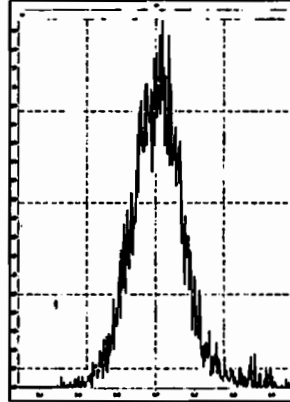
M 330.9792 R 12252



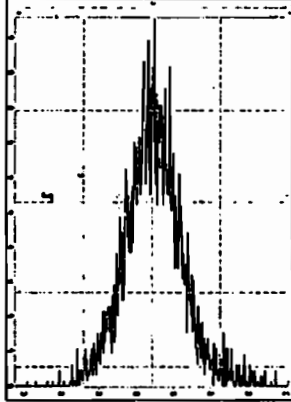
M 342.9792 R 10917



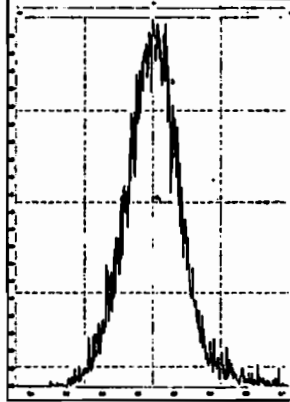
M 354.9792 R 11740



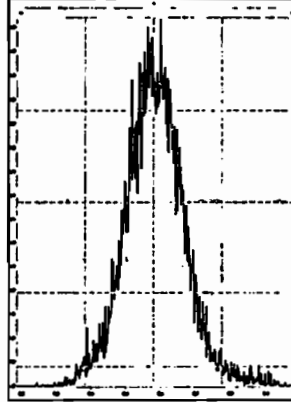
M 366.9792 R 12316



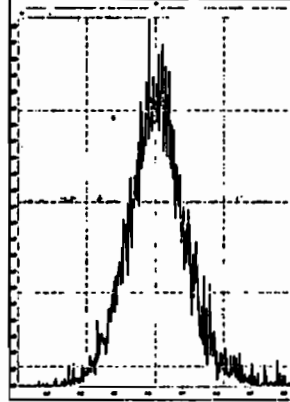
M 380.9760 R 11419



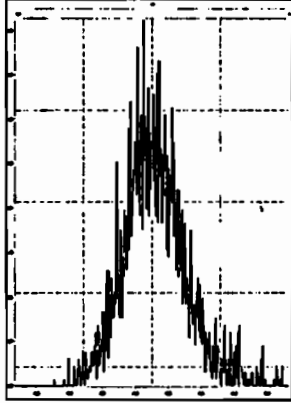
M 392.9760 R 10247



M 404.9760 R 11311



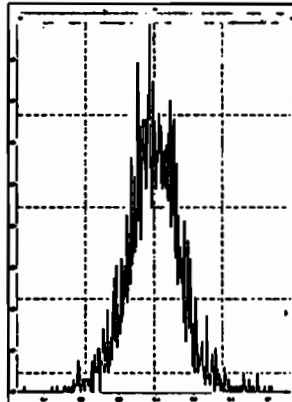
M 416.9760 R 10414



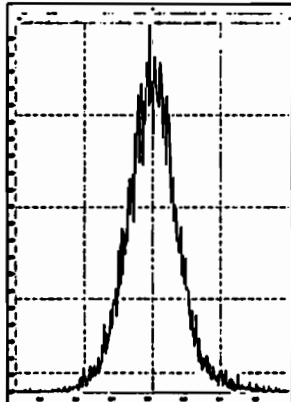
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Sunday, December 06, 2020 10:02:37 Pacific Standard Time

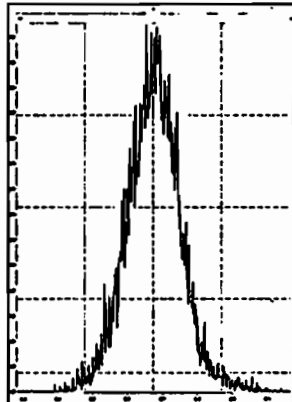
M 366.9792 R 13091



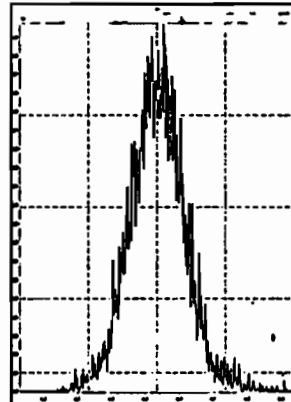
M 380.9760 R 11628



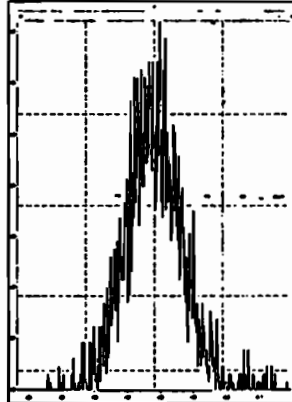
M 392.9760 R 11209



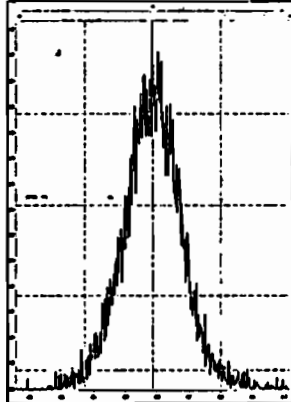
M 404.9760 R 11737



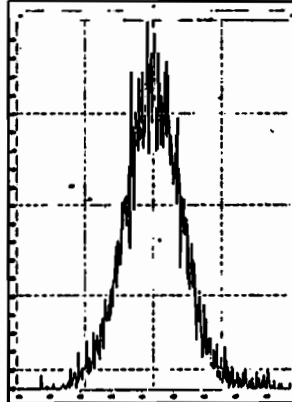
M 416.9760 R 12689



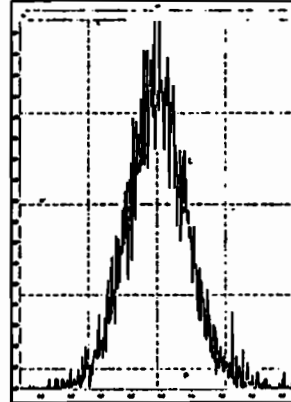
M 430.9728 R 11361



M 442.9728 R 10203



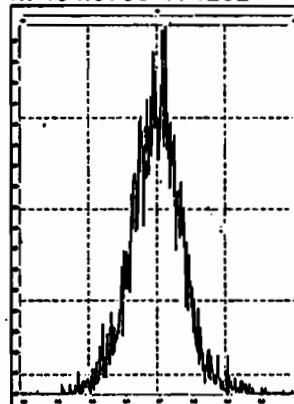
M 454.9728 R 10962



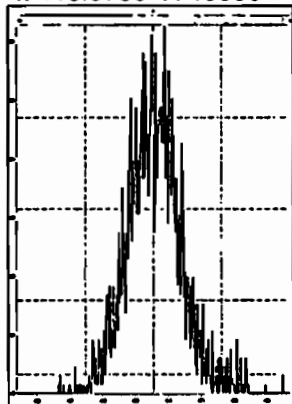
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Sunday, December 06, 2020 10:03:36 Pacific Standard Time

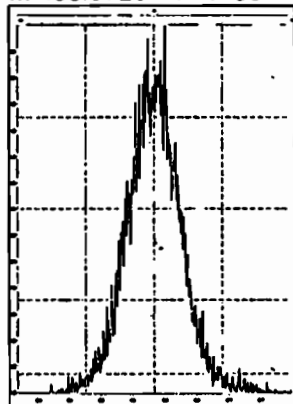
M 404.9760 R 12821



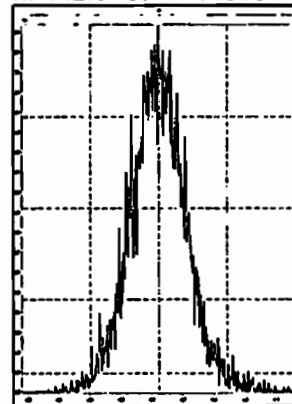
M 416.9760 R 13660



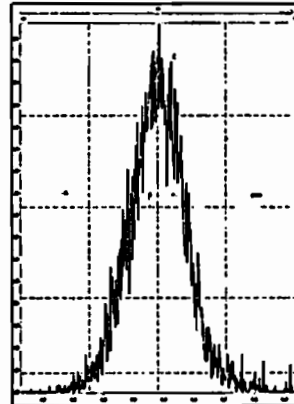
M 430.9728 R 11469



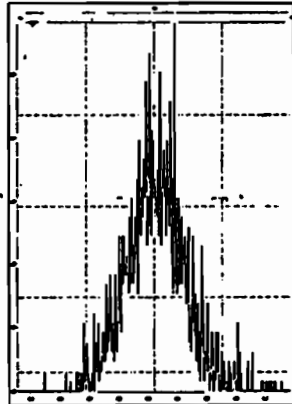
M 442.9728 R 11013



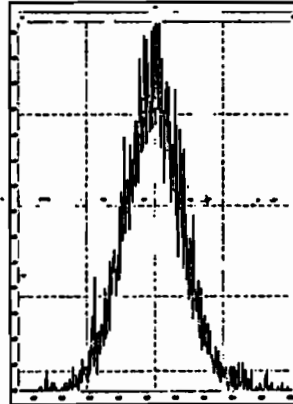
M 454.9728 R 12075



M 466.9728 R 11905



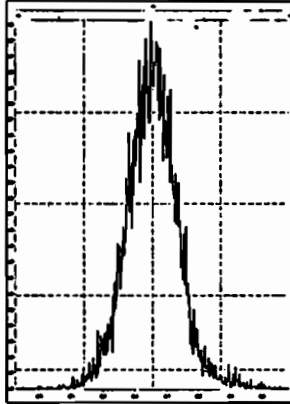
M 480.9696 R 10503



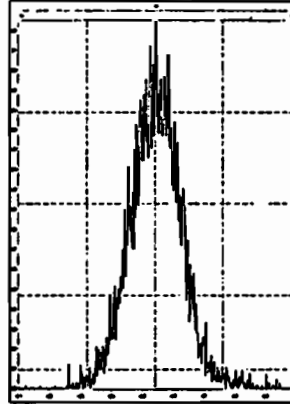
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Sunday, December 06, 2020 10:05:01 Pacific Standard Time

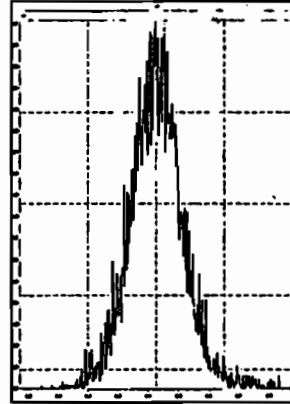
M 430.9728 R 13227



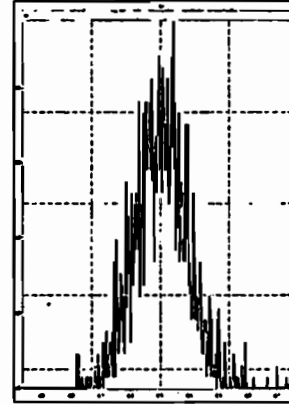
M 442.9728 R 12624



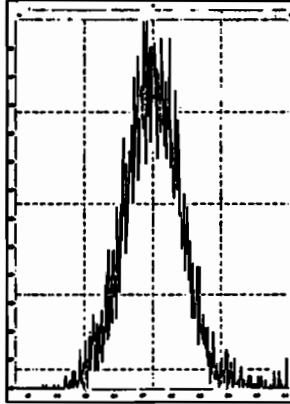
M 454.9728 R 12132



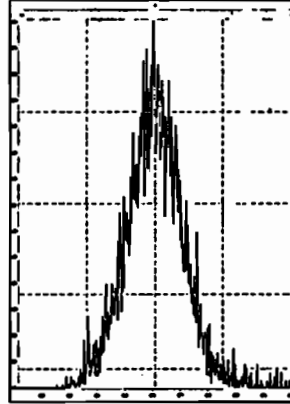
M 466.9728 R 12194



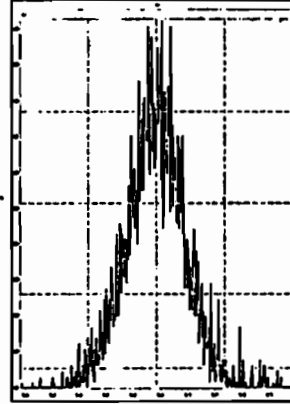
M 480.9696 R 11208



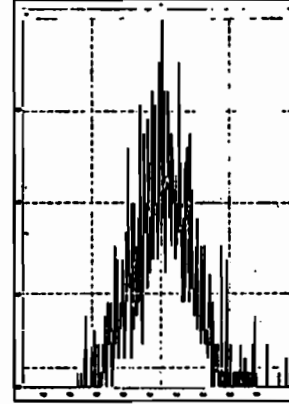
M 492.9696 R 12562



M 504.9696 R 11903



M 516.9697 R 13889



Dataset: U:\VG12.PRO\Results\201206R1\201206R1_CPSM.qld

Last Altered: Monday, December 07, 2020 09:00:32 Pacific Standard Time

Printed: Monday, December 07, 2020 09:01:00 Pacific Standard Time

Method: Untitled 10 Nov 2020 10:04:22

Calibration: U:\VG12.PRO\CurveDB\ddbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

#	Name	RT
1	1,3,6,8-TCDD (First)	22.14
2	1,2,8,9-TCDD (Last)	26.91
3	1,2,4,7,9-PeCDD (First)	28.48
4	1,2,3,8,9-PeCDD (Last)	31.12
5	1,2,4,6,7,9-HxCDD (First)	32.44
6	1,2,3,7,8,9-HxCDD (Last)	34.45
7	1,2,3,4,6,7,9-HpCDD (First)	36.89
8	1,2,3,4,6,7,8-HpCDD (Last)	37.93
9	1,3,6,8-TCDF (First)	19.92
10	1,2,8,9-TCDF (Last)	27.22
11	1,3,4,6,8-PeCDF (First)	26.81
12	1,2,3,8,9-PeCDF (Last)	31.47
13	1,2,3,4,6,8-HxCDF (First)	31.91
14	1,2,3,7,8,9-HxCDF (Last)	34.95
15	1,2,3,4,6,7,8-HpCDF (First)	36.51
16	1,2,3,4,7,8,9-HpCDF (Last)	38.56

Dataset: U:\VG12.PRO\Results\201206R1\201206R1_CPSM.qld

Last Altered: Monday, December 07, 2020 09:00:32 Pacific Standard Time
Printed: Monday, December 07, 2020 09:01:00 Pacific Standard Time

FIN 12/07/2020

GRB 12/07/2020

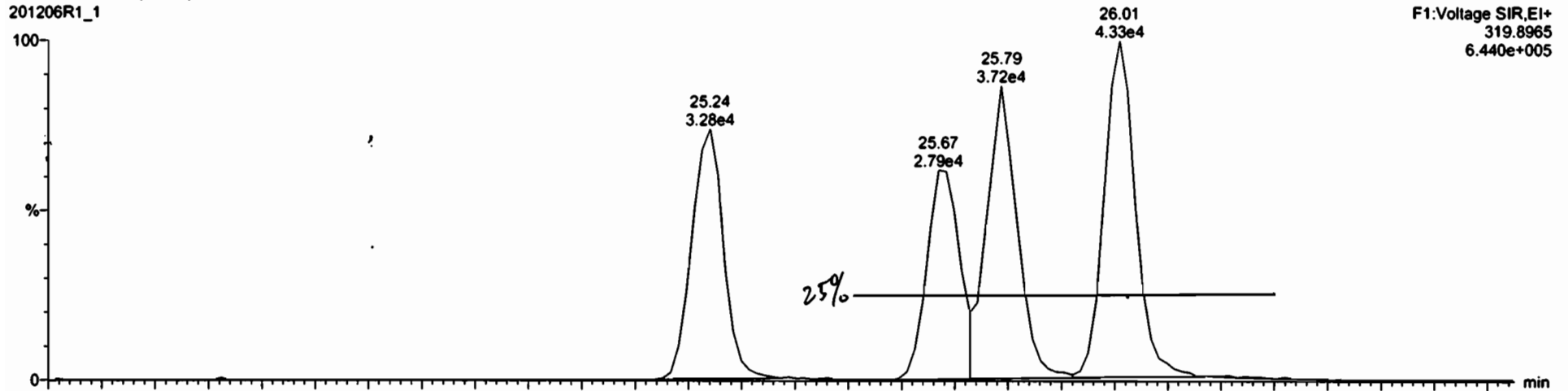
Method: Untitled 10 Nov 2020 10:04:22

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

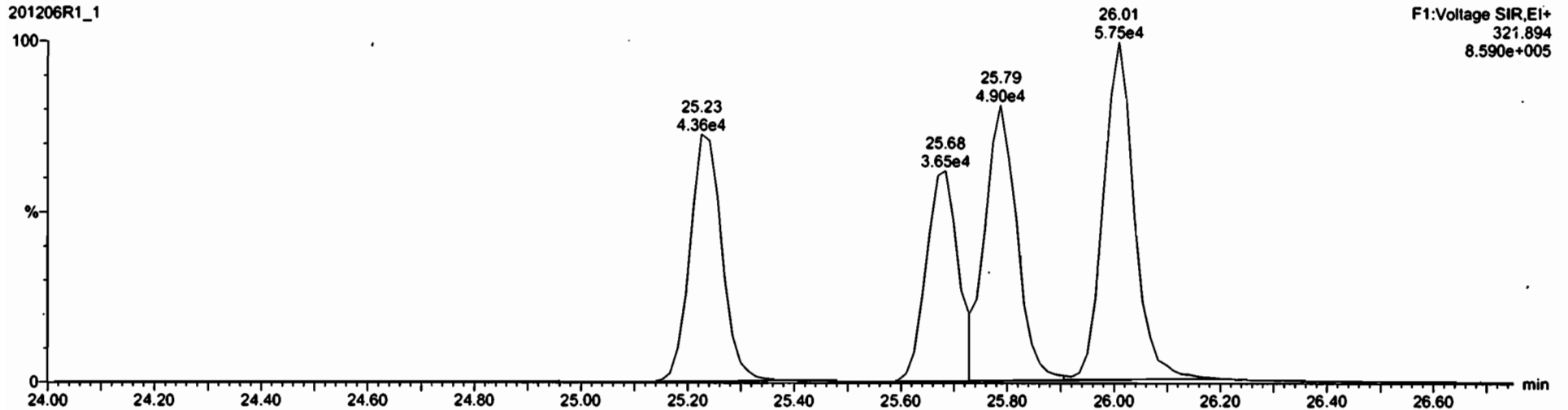
Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDD (First)

201206R1_1



201206R1_1

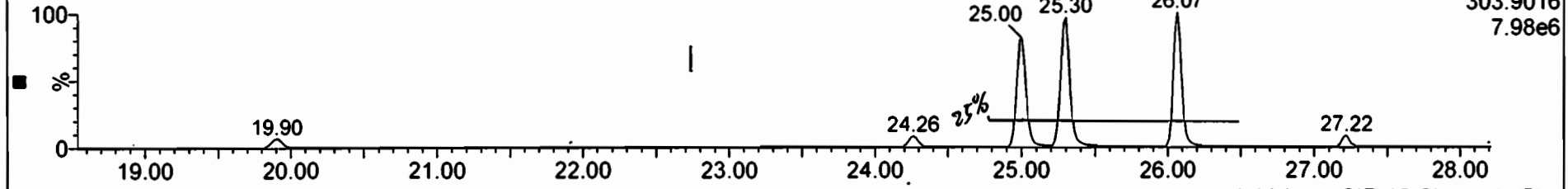


GRB 12/07/2020

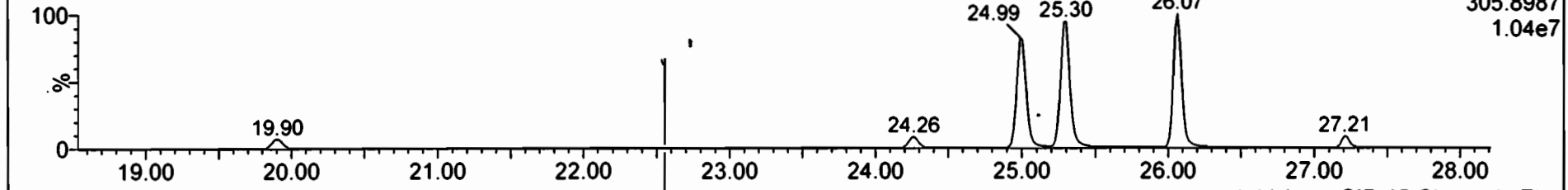
HN 12/07/2020

QC TCDF

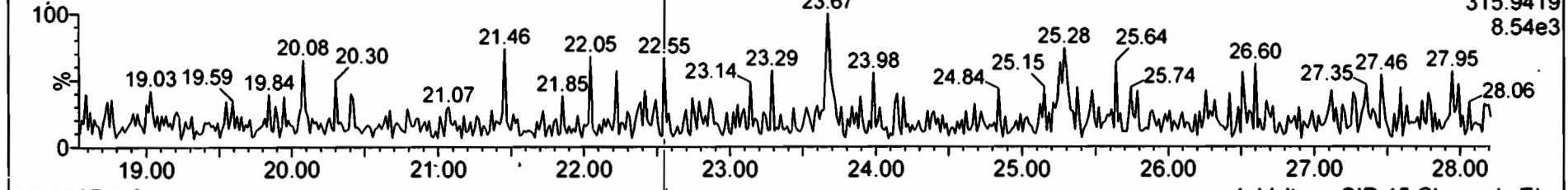
201206R1_2



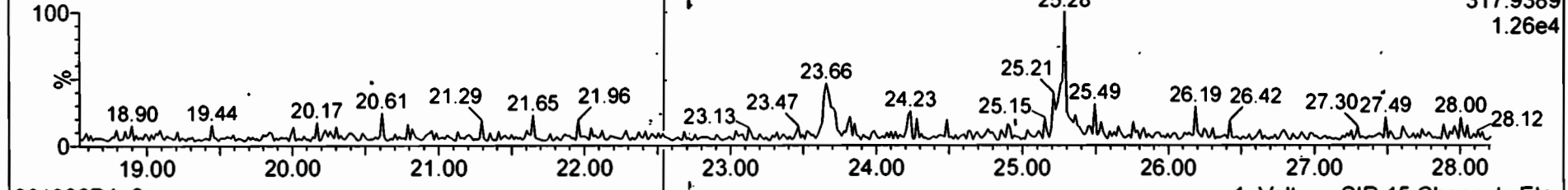
201206R1_2



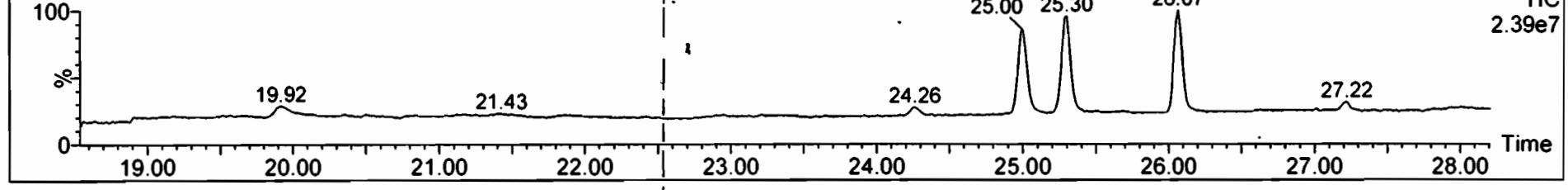
201206R1_2



201206R1_2



201206R1_2



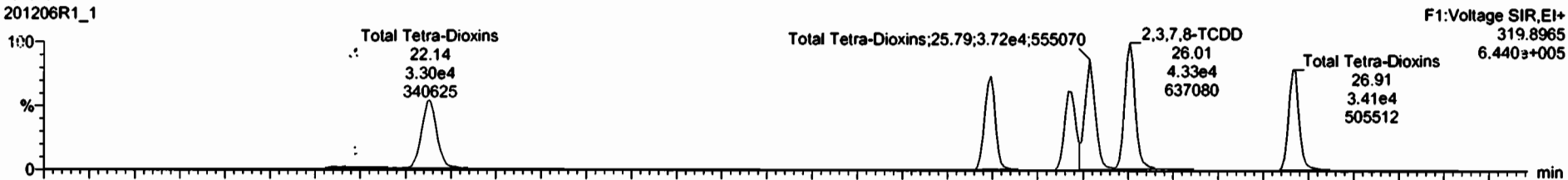
Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

Last Altered: Monday, December 07, 2020 06:55:04 Pacific Standard Time
Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

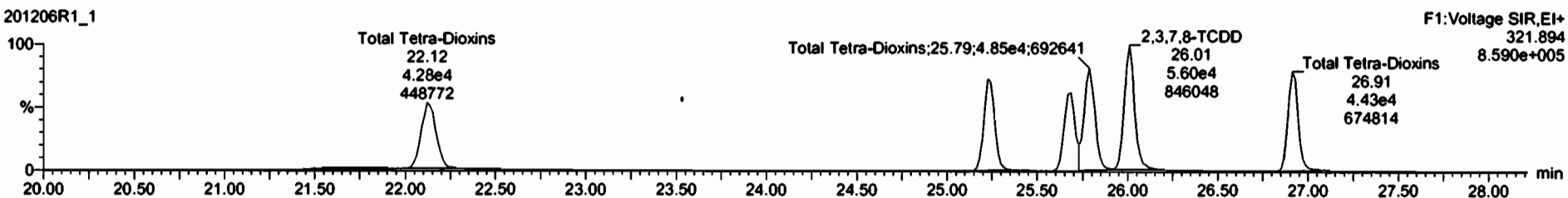
Method: U:\VG12.PRO\MethDB\1613rrt-12-05-20.mdb 05 Dec 2020 10:07:10
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-12-03-20.cdb 04 Dec 2020 11:36:07

Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

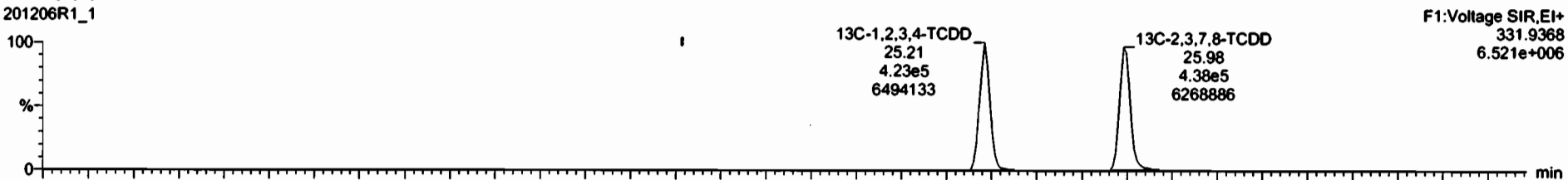
2,3,7,8-TCDD
201206R1_1



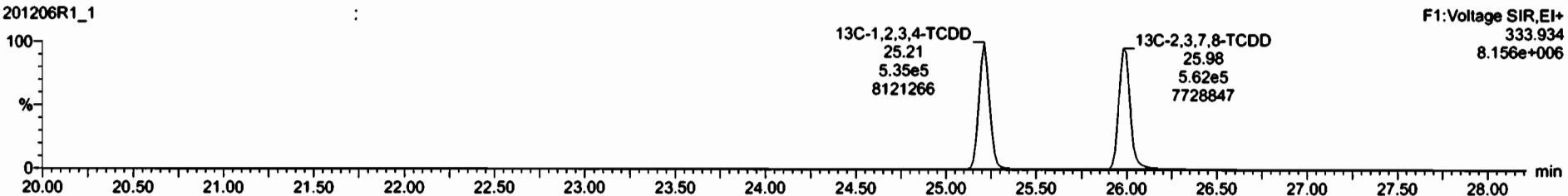
201206R1_1



13C-2,3,7,8-TCDD
201206R1_1



201206R1_1



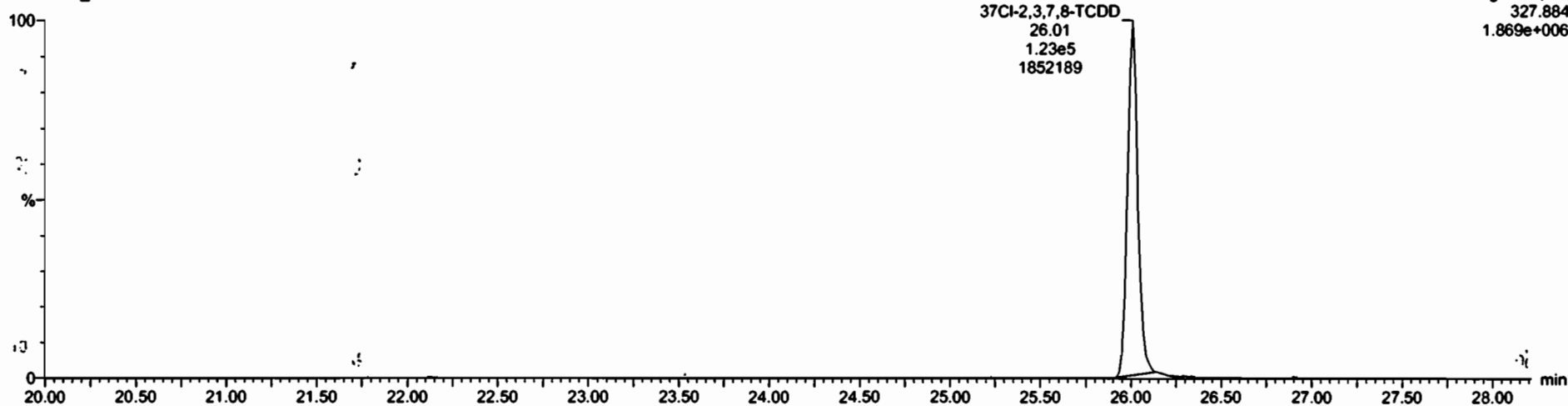
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Last Altered: Monday, December 07, 2020 06:55:04 Pacific Standard Time
Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

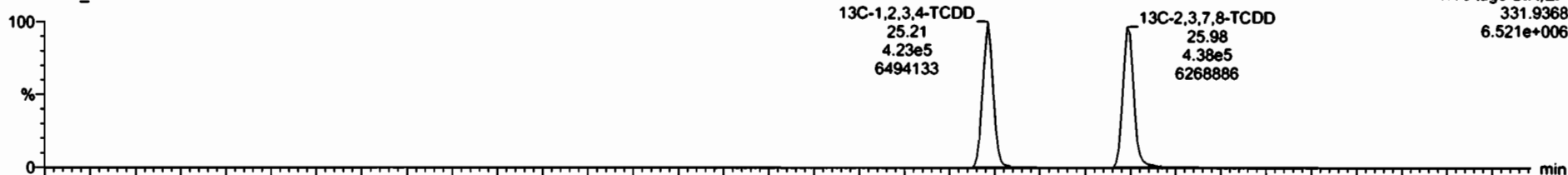
37Cl-2,3,7,8-TCDD

201206R1_1

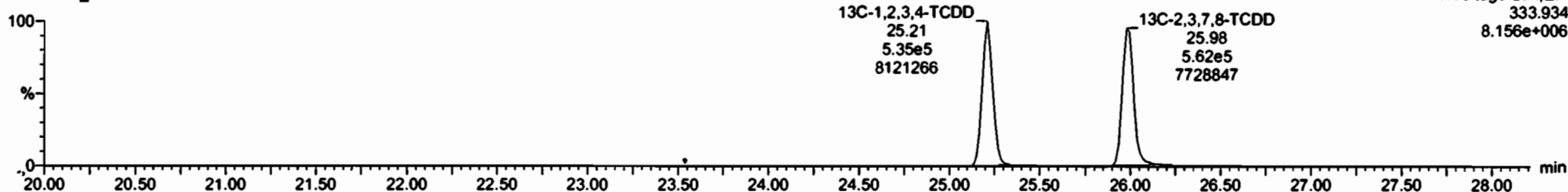


13C-1,2,3,4-TCDD

201206R1_1



201206R1_1



Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

Last Altered: Monday, December 07, 2020 06:55:04 Pacific Standard Time
Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

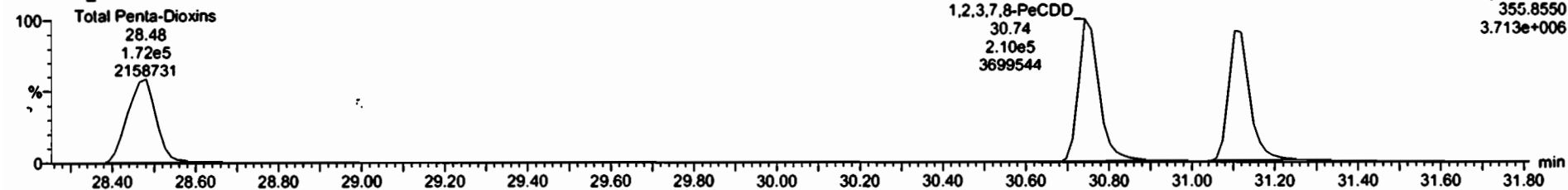
Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,2,3,7,8-PeCDD

201206R1_1



201206R1_1

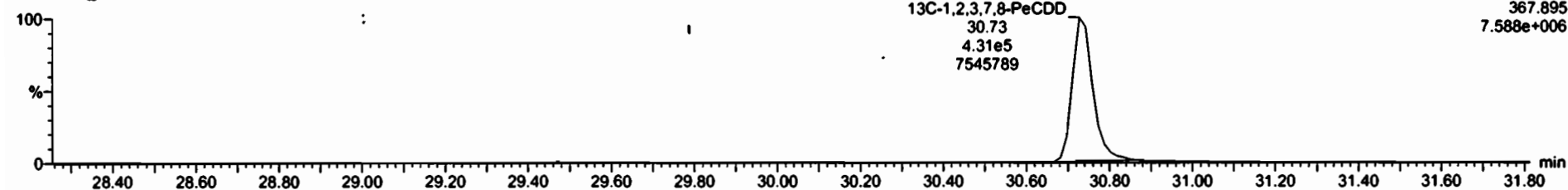


13C-1,2,3,7,8-PeCDD

201206R1_1



201206R1_1



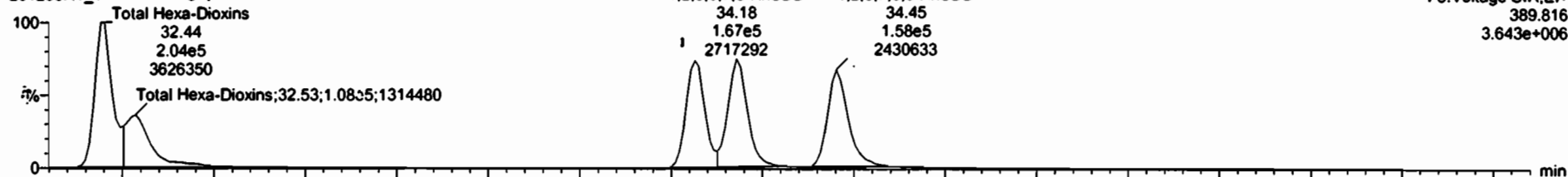
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Printed: Monday, December 07, 2020 11:53:54 AM Pacific Standard Time

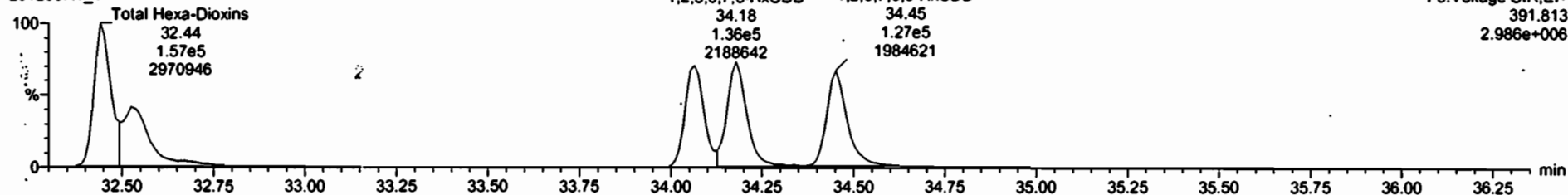
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1,2,3,4,7,8-HxCDD

201206R1_1

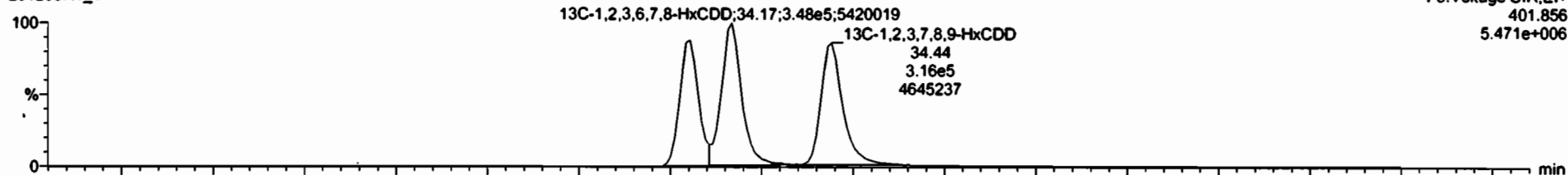


201206R1_1

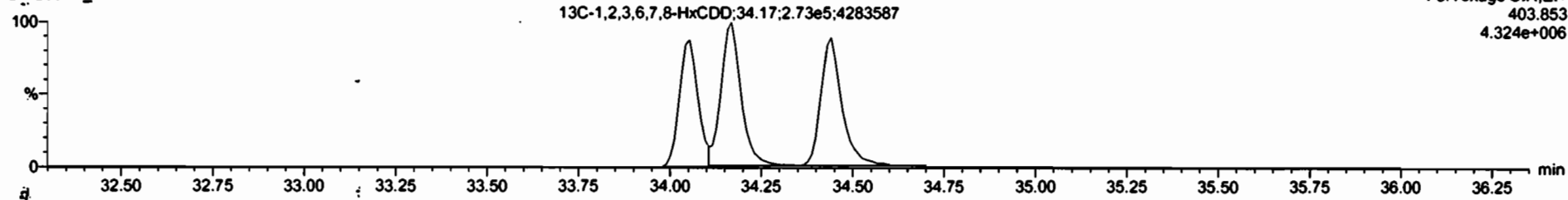


13C-1,2,3,4,7,8-HxCDD

201206R1_1



201206R1_1



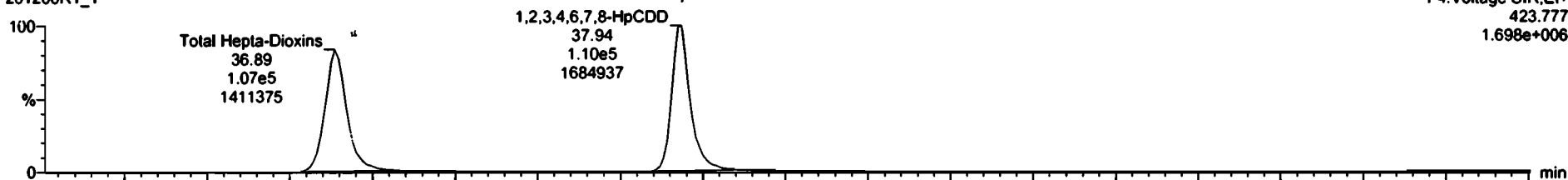
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Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

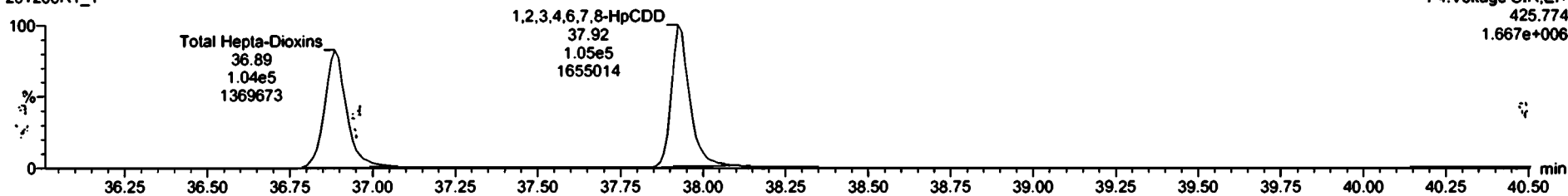
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1,2,3,4,6,7,8-HpCDD

201206R1_1

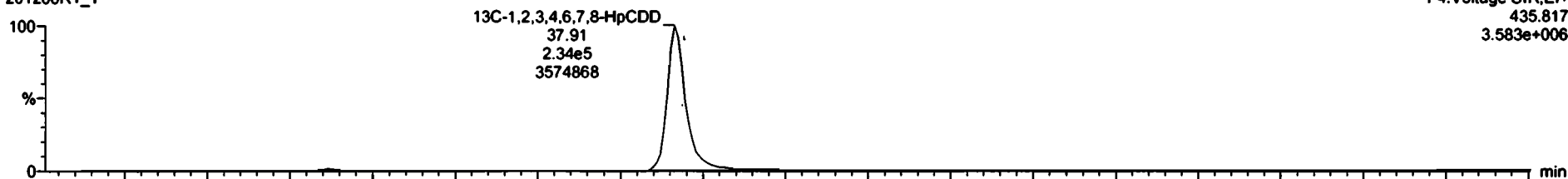


201206R1_1

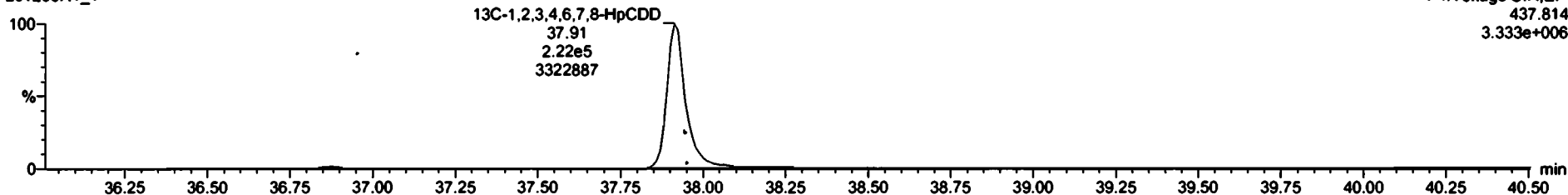


13C-1,2,3,4,6,7,8-HpCDD

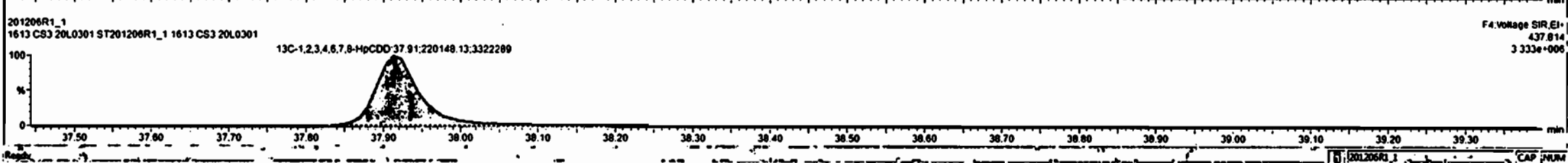
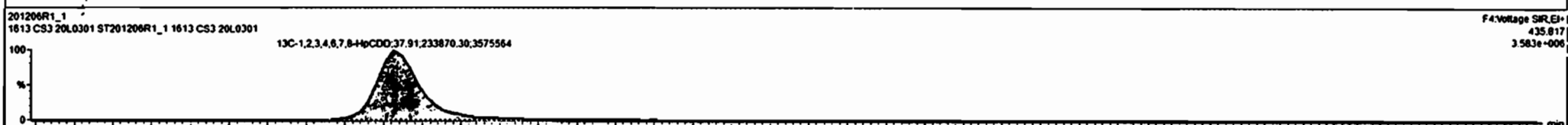
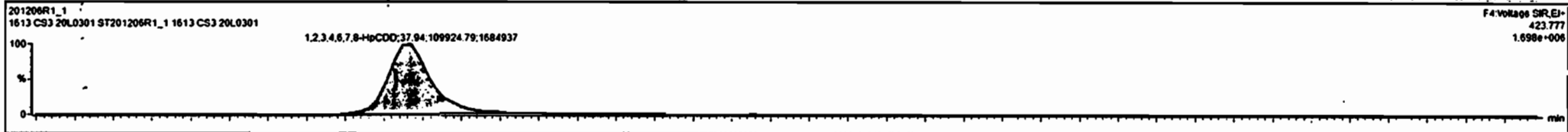
201206R1_1



201206R1_1



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	J Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	9.92e4	9.99e5	0.77	0.77	NO	0.9805	26.01	26.01	NO	1.001	1.001	10.1	101	NO
2	1,2,3,7,8-PeCDD	3.37e5	6.98e5	0.63	0.60	NO	0.9320	30.77	30.74	NO	1.001	1.000	51.7	103	NO
3	1,2,3,4,7,8-HxCDD	2.88e5	5.01e5	1.24	1.20	NO	1.0203	34.07	34.06	NO	1.001	1.000	56.3	113	NO
4	1,2,3,6,7,8-HxCDD	3.03e5	8.20e5	1.24	1.23	NO	0.9025	34.19	34.18	NO	1.001	1.000	54.2	108	NO
5	1,2,3,7,8,9-HxCDD	2.84e5	5.86e5	1.24	1.24	NO	0.9542	34.45	34.45	NO	1.000	1.000	52.7	105	NO
6	1,2,3,4,6,7,8-HpCDD	2.15e5	4.54e5	1.04	1.05	NO	0.9180	37.92	37.94	NO	1.000	1.001	51.6	103	NO
7	OCDD	3.53e5	7.69e5	0.89	0.88	NO	0.8658	40.63	40.63	NO	1.000	1.000	106	106	NO
8	2,3,7,8-TCDF	1.29e5	1.29e6	0.77	0.75	NO	0.8480	25.29	25.31	NO	1.000	1.001	10.9	109	NO
9	1,2,3,7,8-PeCDF	5.40e5	1.05e6	1.55	1.60	NO	0.9597	29.46	29.49	NO	1.000	1.001	53.6	107	NO
10	1,2,3,4,7,8-PeCDF	5.80e5	1.01e6	1.55	1.58	NO	1.0671	30.55	30.55	NO	1.001	1.000	53.6	107	NO
11	1,2,3,4,7,8-HxCDF	3.92e5	7.38e5	1.24	1.23	NO	0.9859	33.16	33.16	NO	1.000	1.000	53.9	108	NO
12	1,2,3,6,7,8-HxCDF	4.49e5	7.78e5	1.24	1.25	NO	1.0388	33.30	33.30	NO	1.001	1.001	54.4	109	NO
13	1,2,3,4,6,7,8-HpCDF	3.84e5	7.05e5	1.24	1.23	NO	1.6202	33.97	33.96	NO	1.001	1.000	54.8	110	NO
14	1,2,3,7,8,9-HxCDF	3.41e5	6.32e5	1.24	1.27	NO	0.9909	34.94	34.95	NO	1.000	1.001	54.5	109	NO
15	1,2,3,4,6,7,8-HpCDF	3.12e5	5.49e5	1.04	1.02	NO	1.0492	36.51	36.51	NO	1.000	1.001	54.2	108	NO



Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

Last Altered: Monday, December 07, 2020 06:55:04 Pacific Standard Time

Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

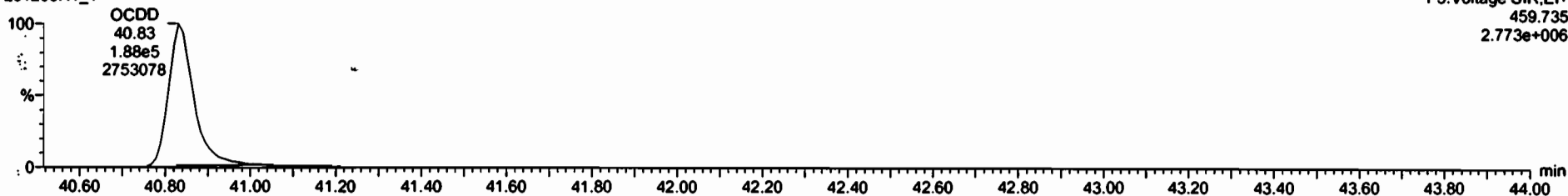
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OCDD

201206R1_1



201206R1_1

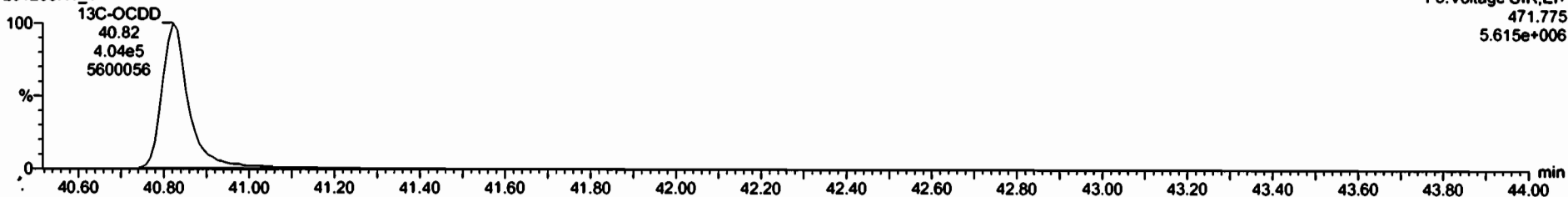


13C-OCDD

201206R1_1



201206R1_1

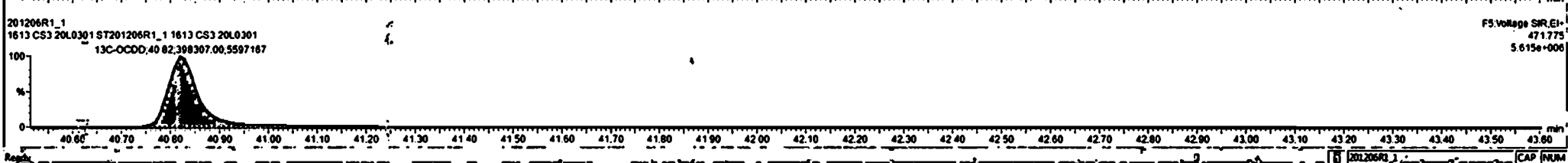
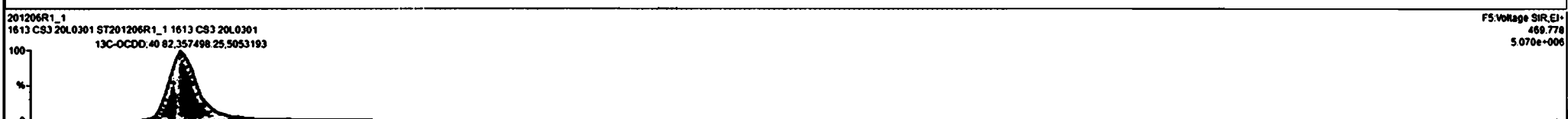
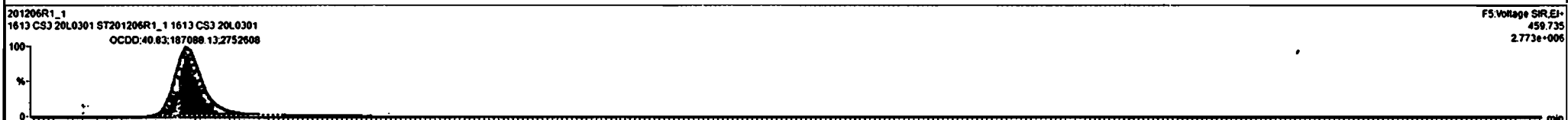


TargetLynx - 201206R1_1.qtd - Chromatogram

File Edit View Display In Processing In Window Help

201206R1_1 - ST201206R1_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Hex.y	Resp	IS Resp	Prd RA	RA	nly	RRF	Prd RT	RT	RT Flag	Prd RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	9.92e4	9.99e5	0.77	0.77	NO	0.9905	26.01	26.01	NO	1.001	1.001	10.1	101	NO
2	1,2,3,7,8-PeCDD	3.37e5	6.00e5	0.63	0.60	NO	0.9320	30.77	30.74	NO	1.001	1.000	51.7	103	NO
3	1,2,3,4,7,8-HxCDD	2.88e5	5.01e5	1.24	1.20	NO	1.0203	34.07	34.09	NO	1.001	1.000	56.3	113	NO
4	1,2,3,6,7,8-HxCDD	3.03e5	6.20e5	1.24	1.23	NO	0.9025	34.19	34.18	NO	1.001	1.000	54.2	108	NO
5	1,2,3,7,8,9-HxCDD	2.84e5	5.08e5	1.24	1.24	NO	0.9542	34.45	34.45	NO	1.000	1.000	52.7	105	NO
6	1,2,3,4,6,7,8-HpCDD	2.15e5	4.54e5	1.04	1.05	NO	0.9180	37.02	37.94	NO	1.000	1.001	51.8	103	NO
7	OCDD	3.52e5	7.56e5	0.80	0.88	NO	0.8658	40.83	40.83	NO	1.000	1.000	108	108	NO
8	2,3,7,8-TCDF	1.29e5	1.39e6	0.77	0.75	NO	0.8480	25.29	25.31	NO	1.000	1.001	10.9	159	NO
9	2,3,7,8-PeCDF	5.40e5	1.05e6	1.55	1.60	NO	0.9597	29.48	29.48	NO	1.000	1.001	53.6	107	NO
10	2,3,4,7,8-PeCDF	5.80e5	1.01e6	1.55	1.58	NO	1.0671	30.55	30.55	NO	1.001	1.000	53.6	107	NO
11	1,2,3,4,7,8-HxCDF	3.92e5	7.30e5	1.24	1.23	NO	0.9859	33.16	33.16	NO	1.000	1.000	53.9	108	NO
12	1,2,3,6,7,8-HxCDF	4.40e5	7.78e5	1.24	1.25	NO	1.0308	33.30	33.30	NO	1.001	1.001	54.4	109	NO
13	2,3,4,6,7,8-HxCDF	3.94e5	7.05e5	1.24	1.23	NO	1.0202	33.07	33.06	NO	1.001	1.000	54.8	110	NO
14	1,2,3,7,8,9-HxCDF	3.41e5	6.32e5	1.24	1.27	NO	0.9909	34.94	34.85	NO	1.000	1.001	54.5	109	NO
15	1,2,3,4,6,7,8-HpCDF	3.12e5	5.49e5	1.04	1.02	NO	1.0492	36.51	36.51	NO	1.000	1.001	54.2	108	NO



Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

Last Altered: Monday, December 07, 2020 06:55:04 Pacific Standard Time
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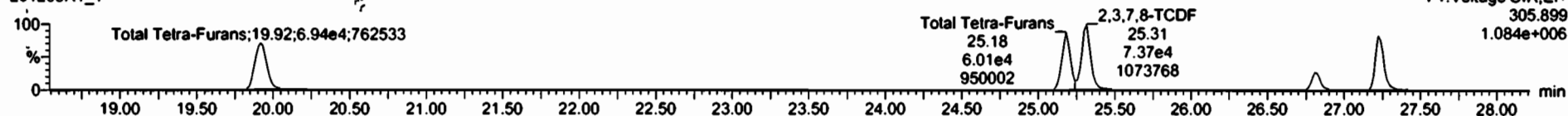
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2,3,7,8-TCDF

201206R1_1

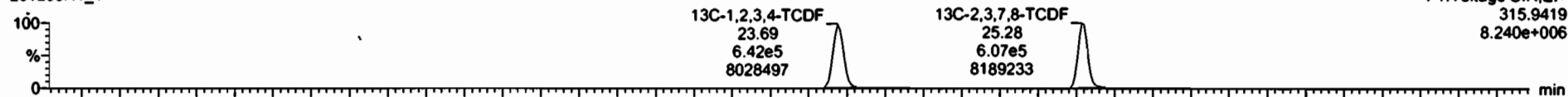


201206R1_1

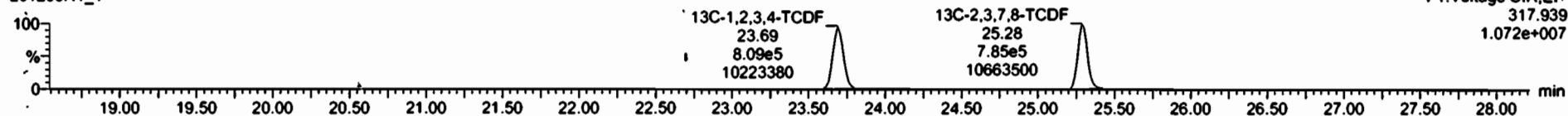


13C-2,3,7,8-TCDF

201206R1_1

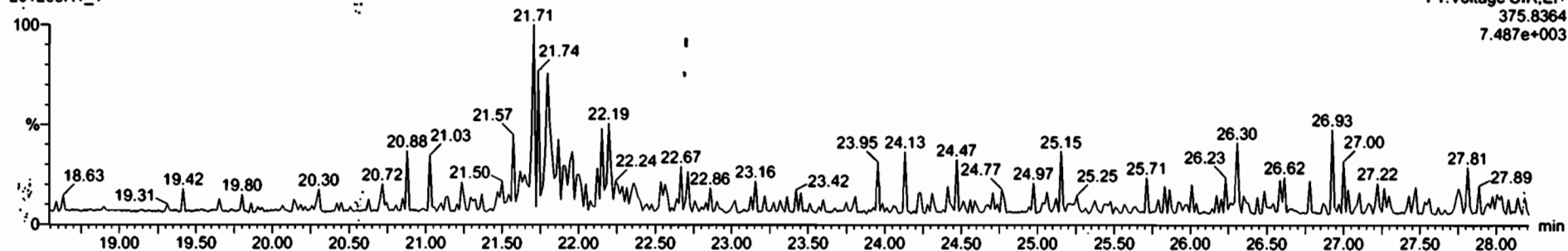


201206R1_1



DPE1

201206R1_1



Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

Last Altered: Monday, December 07, 2020 06:55:04 Pacific Standard Time

Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

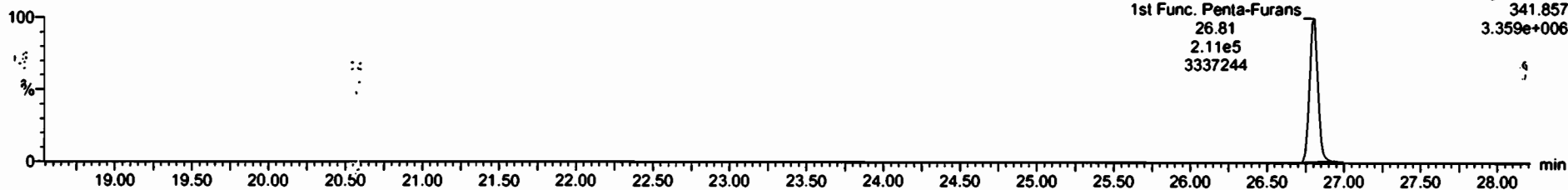
Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1st Func. Penta-Furans

201206R1_1

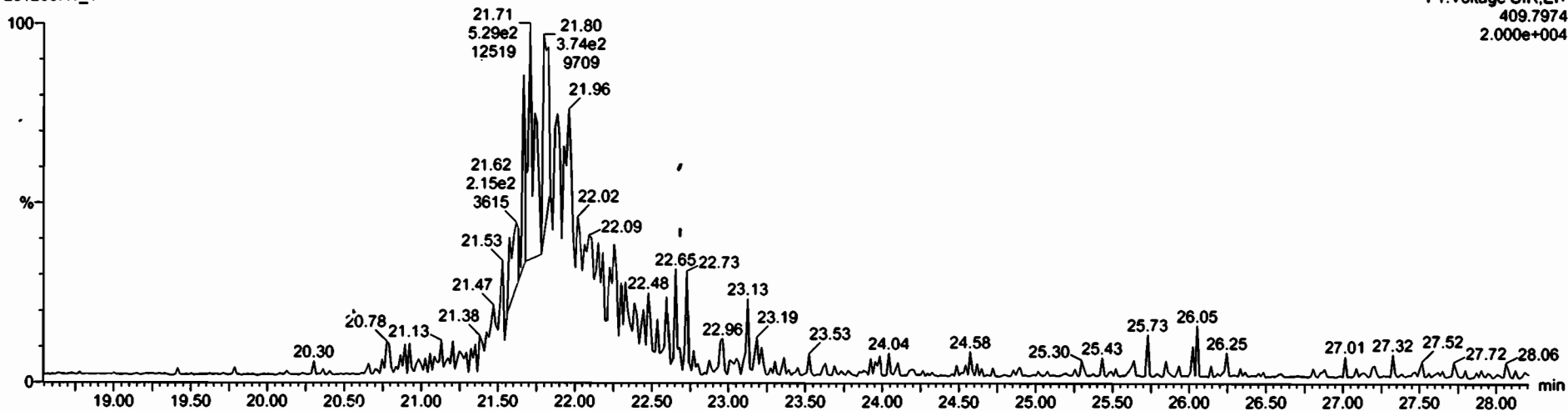


201206R1_1



DPE6

201206R1_1

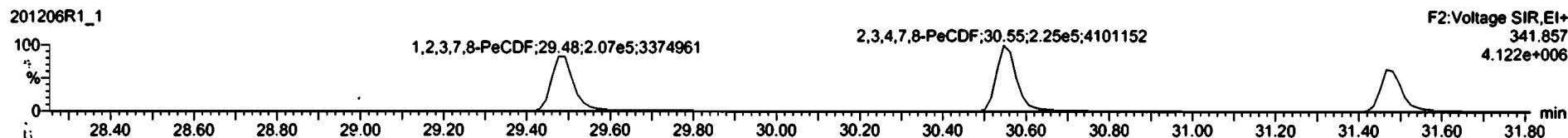


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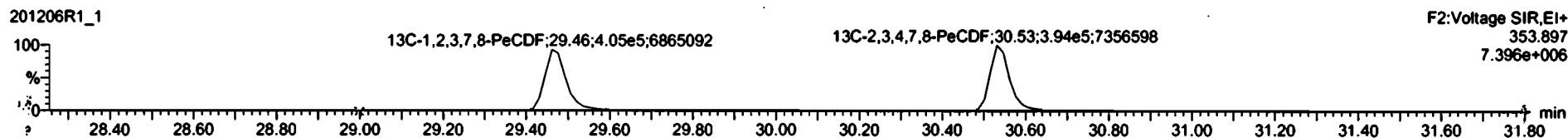
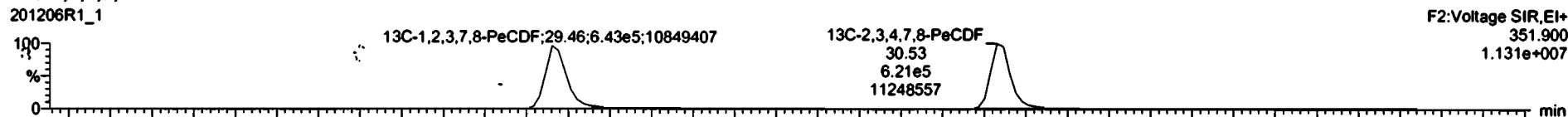
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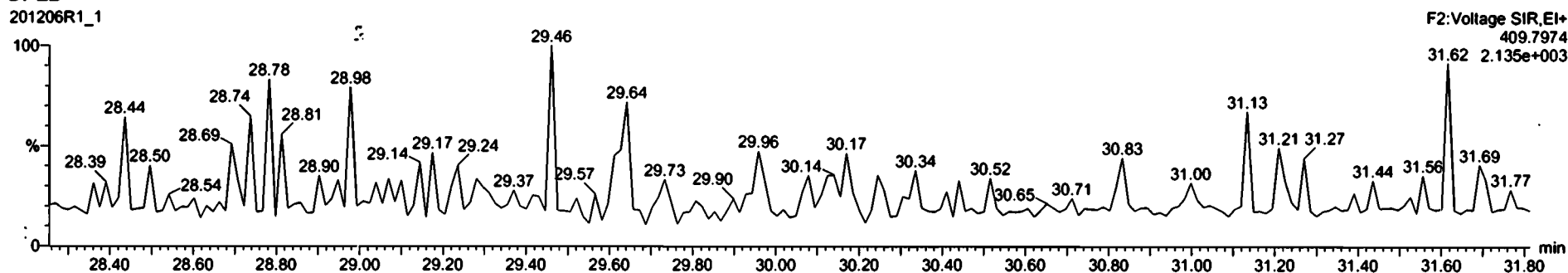
1,2,3,7,8-PeCDF



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



DPE2

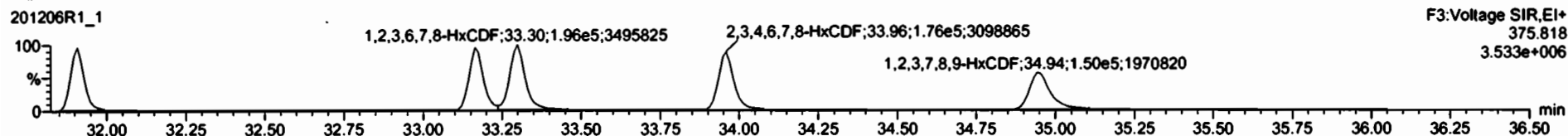
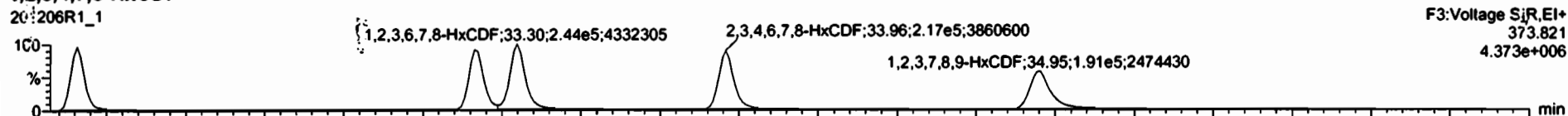


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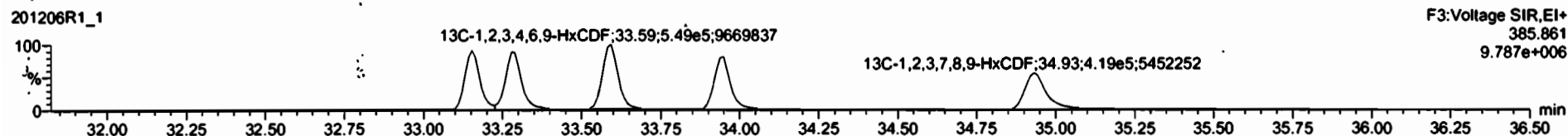
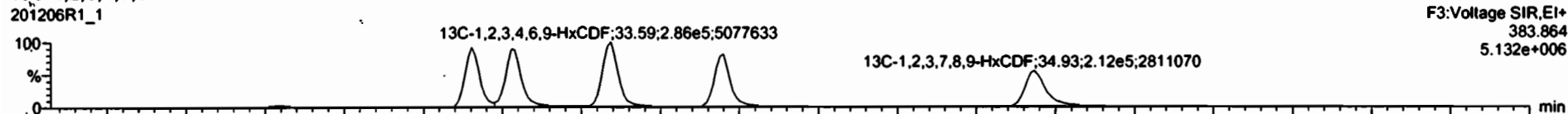
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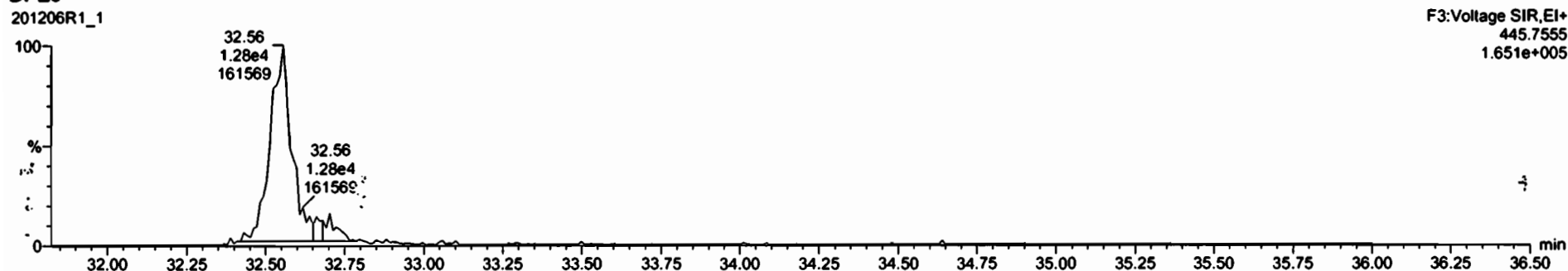
1,2,3,4,7,8-HxCDF



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



DPE3



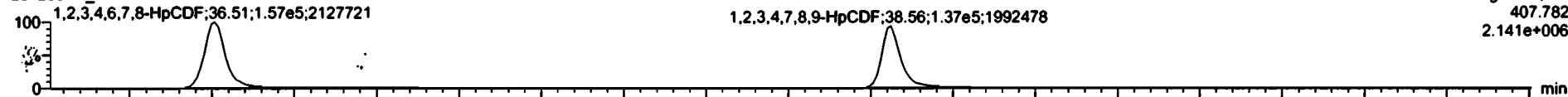
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Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

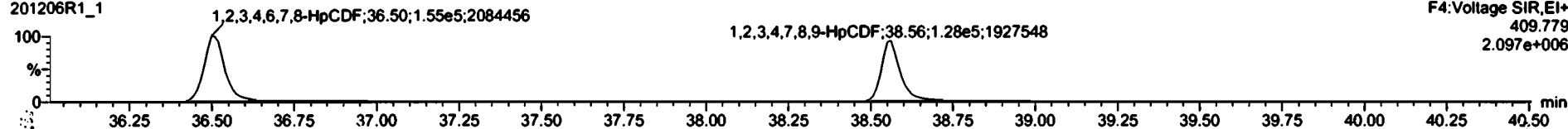
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1,2,3,4,6,7,8-HpCDF

201206R1_1

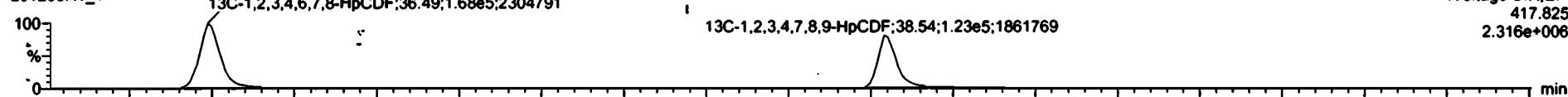


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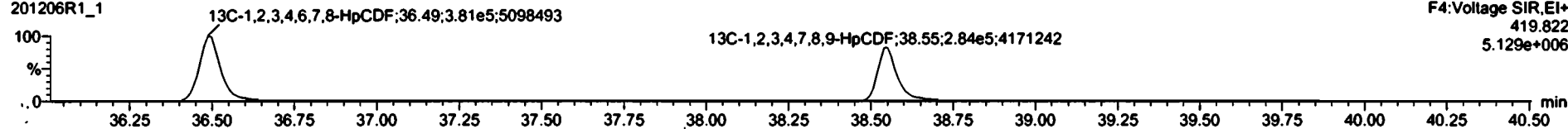


¹³C-1,2,3,4,6,7,8-HpCDF

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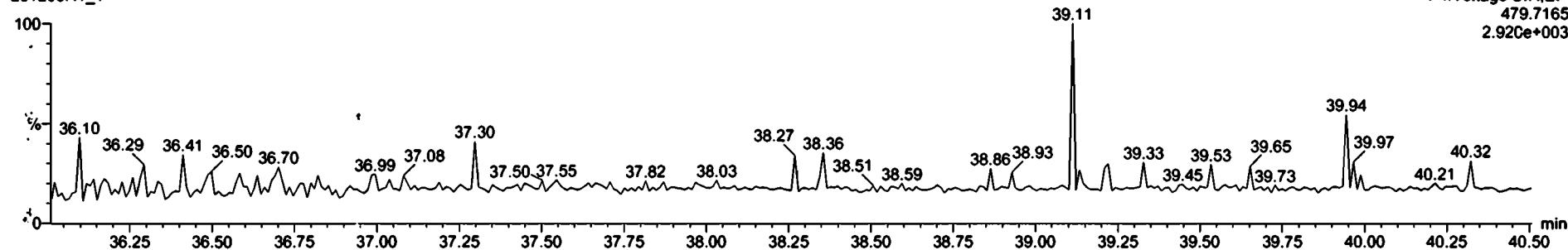


201206R1_1



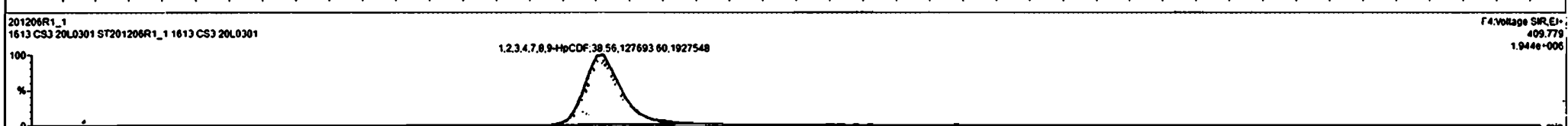
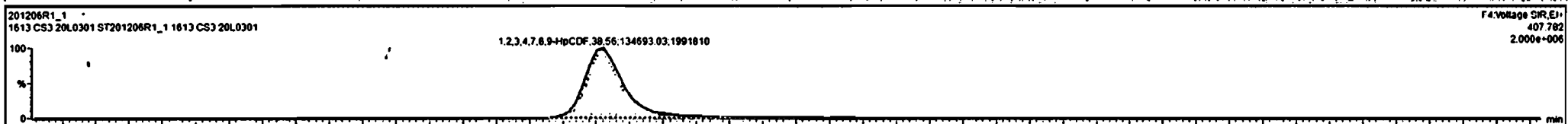
DPE4

201206R1_1



201206R1_1 - ST201206R1_1 1613 CS3 20L0301 - 1613 CS3 20L0301

#	Ret.	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	2.62e5	4.07e5	1.04	1.05	NO	1.1759	38.55	38.56	NO	1.000	1.001	54.8	110	NO
17	OCDF	4.54e5	8.96e5	0.89	0.92	NO	0.8960	41.11	41.12	NO	1.000	1.001	113	113	NO
18	13C-2,3,7,8-TCDF	9.99e5	9.58e5	0.77	0.78	NO	1.0555	25.97	25.98	NO	1.030	1.030	98.8	98.8	NO
19	13C-1,2,3,7,8-PeCDD	6.98e5	9.58e5	0.63	0.62	NO	0.7847	30.74	30.74	NO	1.219	1.219	92.9	92.9	NO
20	13C-1,2,3,4,7,8-HxCDD	5.01e5	8.35e5	1.24	1.26	NO	0.8295	34.05	34.05	NO	1.014	1.014	96.7	96.7	NO
21	13C-1,2,3,6,7,8-HxCDD	8.20e5	8.35e5	1.24	1.27	NO	0.7340	34.17	34.17	NO	1.017	1.017	101	101	NO
22	13C-1,2,3,7,8,9-HxCDD	5.66e5	8.35e5	1.24	1.26	NO	0.7226	34.45	34.44	NO	1.026	1.025	93.7	93.7	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.54e5	8.35e5	1.04	1.06	NO	0.5877	37.92	37.91	NO	1.129	1.129	95.8	95.8	NO
24	13C-OCDF	7.58e5	8.35e5	0.89	0.90	NO	0.4958	40.83	40.82	NO	1.216	1.215	183	91.3	NO
25	13C-2,3,7,8-TCDF	1.38e6	1.45e6	0.77	0.77	NO	0.9190	25.28	25.28	NO	1.003	1.003	104	104	NO
26	13C-1,2,3,7,8-PeCDF	1.05e6	1.45e6	1.55	1.59	NO	0.7151	29.47	29.40	NO	1.189	1.189	101	101	NO
27	13C-2,3,4,7,8-PeCDF	1.01e6	1.45e6	1.55	1.50	NO	0.8865	30.54	30.53	NO	1.212	1.211	102	102	NO
28	13C-1,2,3,4,7,8-HxCDF	7.38e5	8.35e5	0.51	0.51	NO	0.8734	33.16	33.15	NO	0.967	0.967	101	101	NO
29	13C-1,2,3,6,7,8-HxCDF	7.78e5	8.35e5	0.51	0.51	NO	0.9335	33.29	33.28	NO	0.991	0.991	99.8	99.8	NO
30	13C-2,3,4,6,7,8-HxCDF	7.05e5	8.35e5	0.51	0.52	NO	0.8430	33.95	33.95	NO	1.011	1.011	100	100	NO



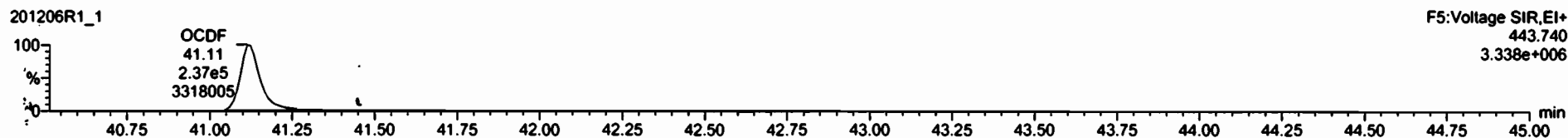
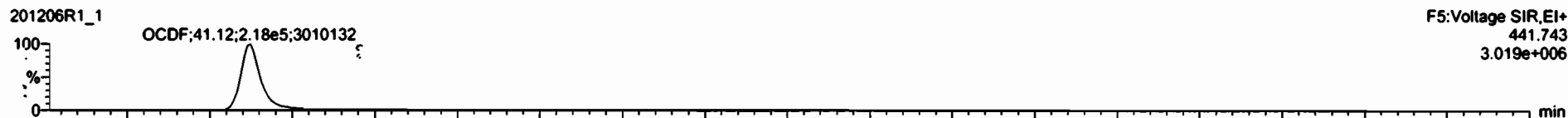
37.80 37.90 38.00 38.10 38.20 38.30 38.40 38.50 38.60 38.70 38.80 38.90 39.00 39.10 39.20 39.30 39.40 39.50 39.60 39.70 39.80 39.90

Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

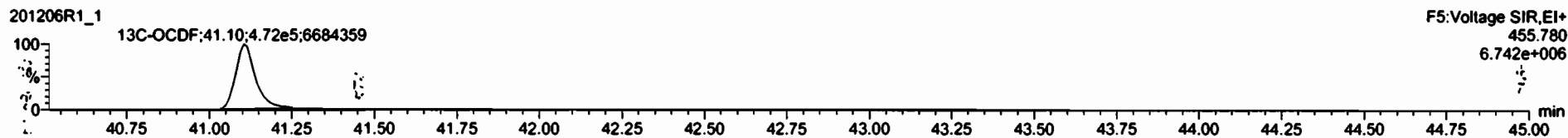
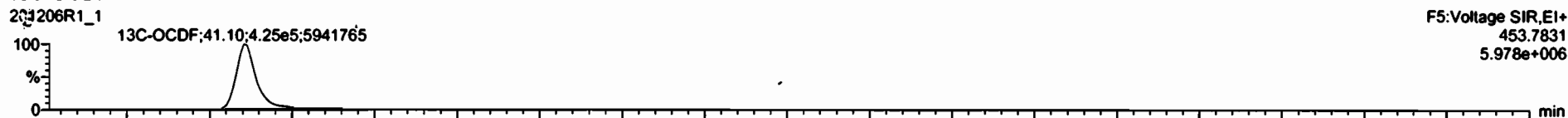
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Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301

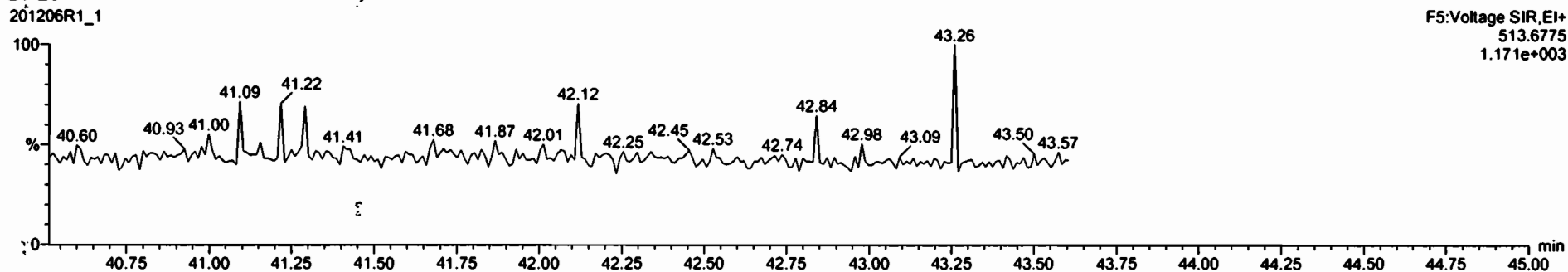
OCDF



13C-OCDF

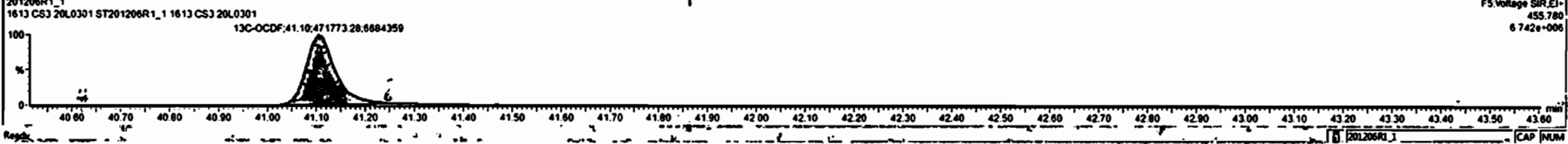
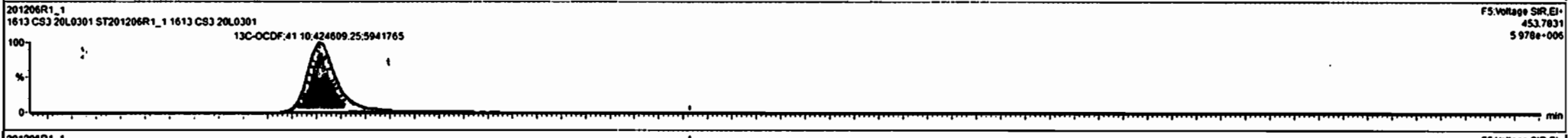
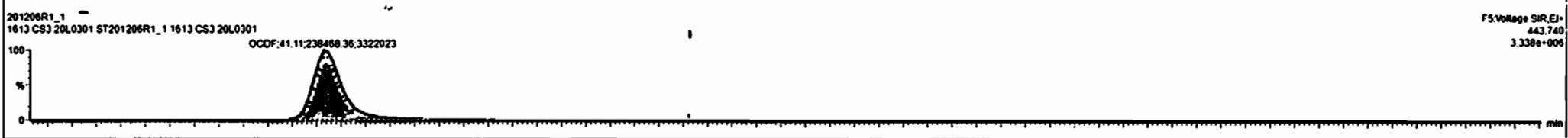


DPES



201206R1_1 - ST201206R1_1 1613 CS3 20L0301 - 1613 CS3 20L0301

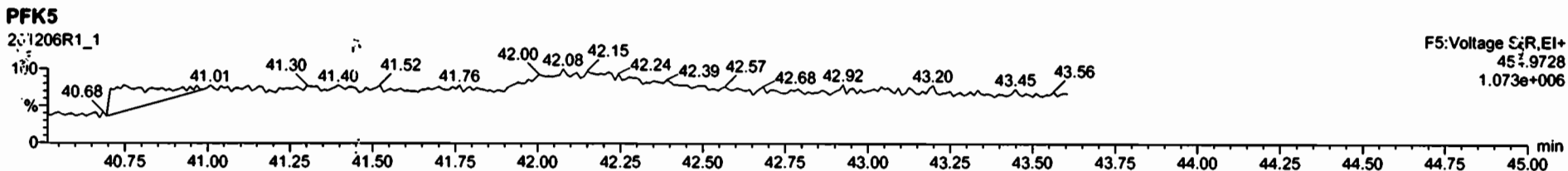
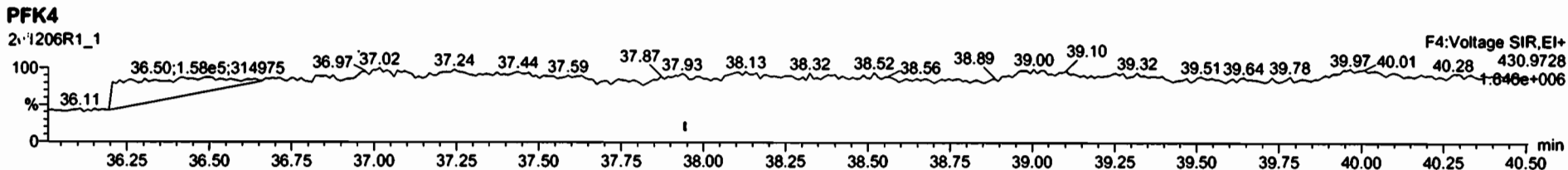
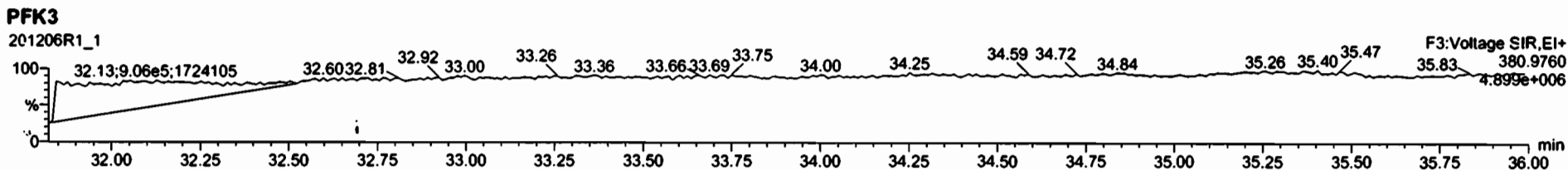
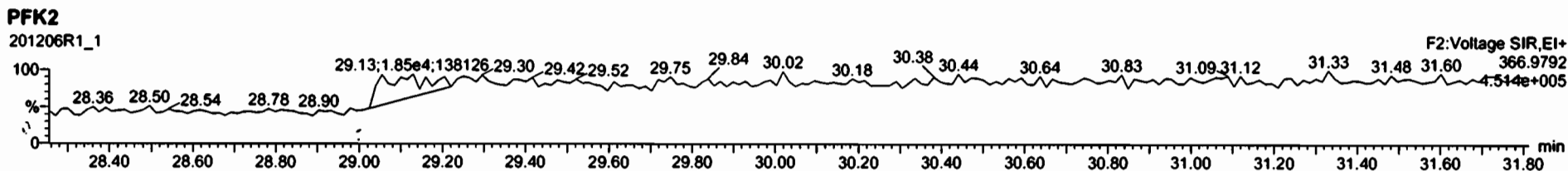
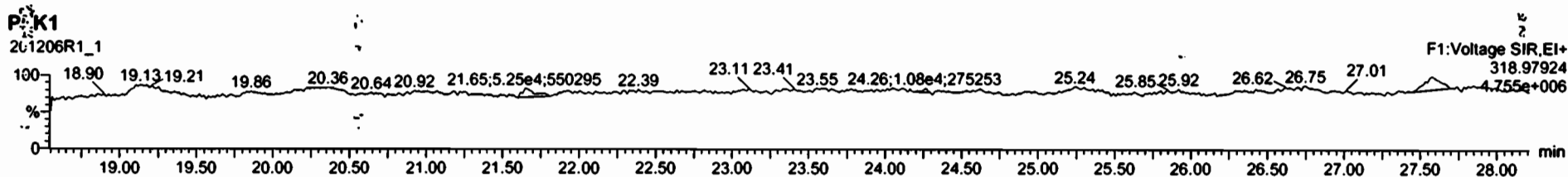
#	Name	Resp	IS Resp	Prod RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
16	1,2,3,4,7,8,9-HpCDF	2.62e5	4.07e5	1.04	1.05	NO	1.1750	38.55	38.56	NO	1.000	1.001	54.8	118	NO
17	OCDF	4.52e5	8.96e5	0.89	0.90	NO	0.8860	41.11	41.12	NO	1.000	1.001	113	113	NO
18	13C-2,3,7,8-TCDF	9.89e5	9.58e5	0.77	0.78	NO	1.0555	25.87	25.88	NO	1.030	1.030	98.8	98.8	NO
19	13C-1,2,3,7,8-PeCDF	6.98e5	9.58e5	0.63	0.62	NO	0.7847	30.74	30.74	NO	1.219	1.219	92.9	92.9	NO
20	13C-1,2,3,4,7,8-HxCDF	5.91e5	8.35e5	1.24	1.28	NO	0.6205	34.05	34.05	NO	1.014	1.014	96.7	96.7	NO
21	13C-1,2,3,6,7,8-HxCDF	8.20e5	8.35e5	1.24	1.27	NO	0.7340	34.17	34.17	NO	1.017	1.017	101	101	NO
22	13C-1,2,3,7,8,9-HxCDF	5.66e5	8.35e5	1.24	1.26	NO	0.7226	34.45	34.44	NO	1.026	1.025	93.7	93.7	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.54e5	8.35e5	1.04	1.06	NO	0.5877	37.92	37.91	NO	1.129	1.129	95.8	95.8	NO
24	13C-OCDD	7.56e5	8.35e5	0.89	0.90	NO	0.4958	40.83	40.82	NO	1.216	1.215	183	91.3	NO
25	13C-2,3,7,8-TCDF	1.38e6	1.45e6	0.77	0.77	NO	0.9190	25.28	25.28	NO	1.003	1.003	104	104	NO
26	13C-1,2,3,7,8-PeCDF	1.85e6	1.45e6	1.55	1.59	NO	0.7151	29.47	29.48	NO	1.189	1.189	101	101	NO
27	13C-2,3,4,7,8-PeCDF	1.01e6	1.45e6	1.55	1.58	NO	0.6885	30.54	30.53	NO	1.212	1.211	102	102	NO
28	13C-1,2,3,4,7,8-HxCDF	7.36e5	8.35e5	0.51	0.51	NO	0.8734	33.18	33.15	NO	0.987	0.987	101	101	NO
29	13C-1,2,3,6,7,8-HxCDF	7.78e5	8.35e5	0.51	0.51	NO	0.9335	33.29	33.28	NO	0.991	0.991	99.8	99.8	NO
30	13C-2,3,4,6,7,8-HxCDF	7.05e5	8.35e5	0.51	0.52	NO	0.8430	33.95	33.95	NO	1.011	1.011	100	100	NO



Dataset: U:\VG12.PRO\Results\201206R1\201206R1_1.qld

Last Altered: Monday, December 07, 2020 06:55:04 Pacific Standard Time
Printed: Monday, December 07, 2020 09:07:27 Pacific Standard Time

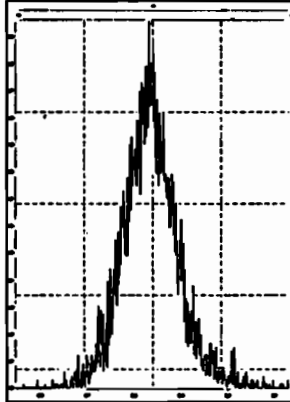
Name: 201206R1_1, Date: 06-Dec-2020, Time: 10:06:14, ID: ST201206R1_1 1613 CS3 20L0301, Description: 1613 CS3 20L0301



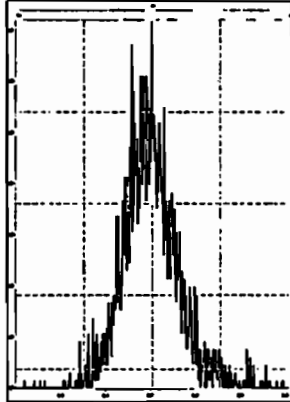
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Printed: Monday, December 07, 2020 07:39:33 Pacific Standard Time

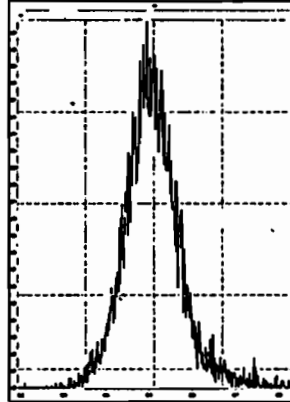
M 292.9824 R 11960



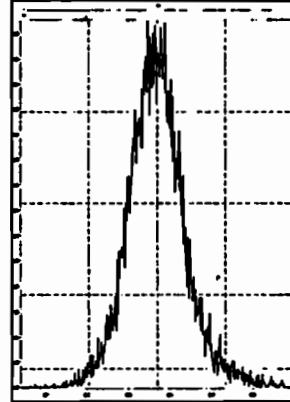
M 304.9824 R 13443



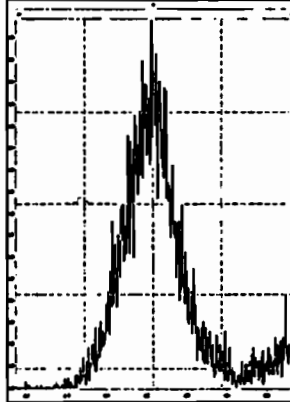
M 318.9792 R 11742



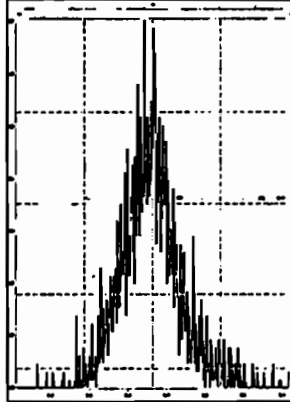
M 330.9792 R 11412



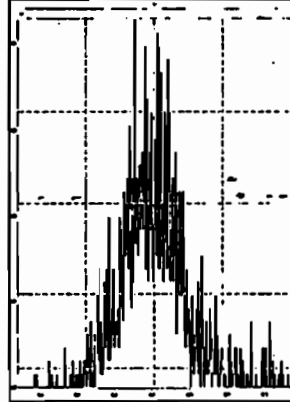
M 342.9792 R 11013



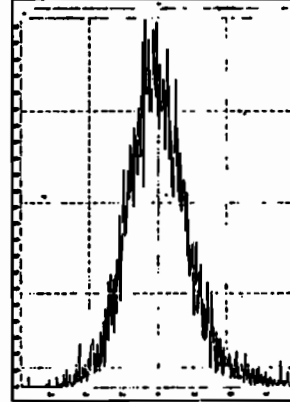
M 354.9792 R 12752



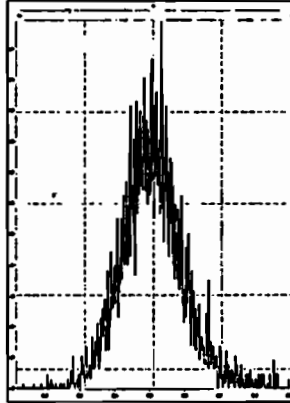
M 366.9792 R 15244



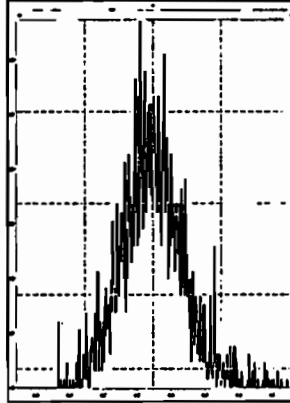
M 380.9760 R 11851



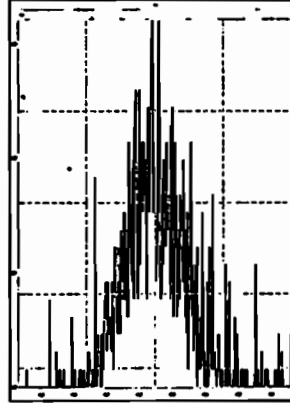
M 392.9760 R 10461



M 404.9760 R 11740



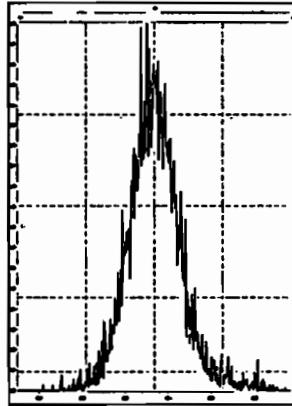
M 416.9760 R 13224



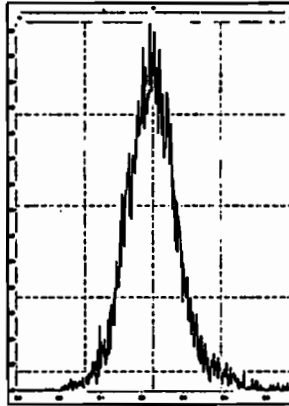
File: Experiment: OCDD_DIOXIN.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, December 07, 2020 07:40:00 Pacific Standard Time

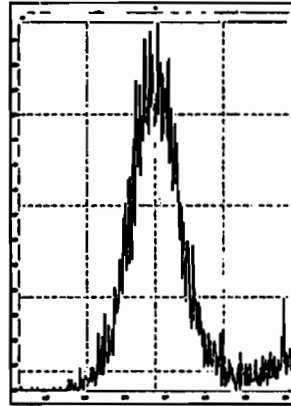
M 318.9792 R 12825



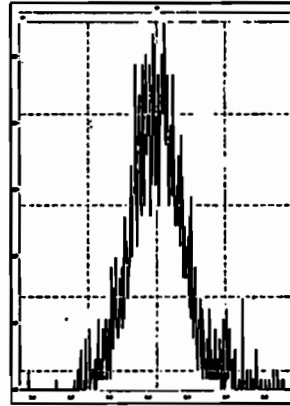
M 330.9792 R 12440



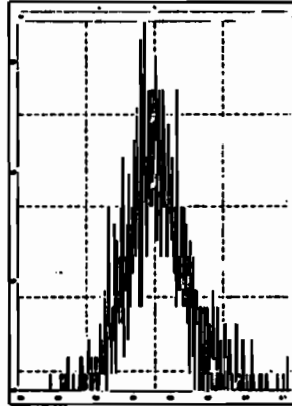
M 342.9792 R 11013



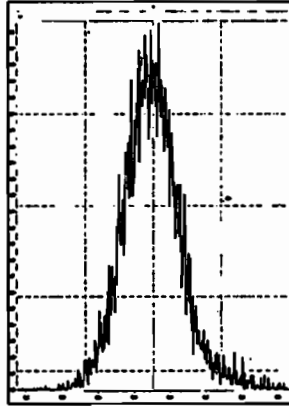
M 354.9792 R 14538



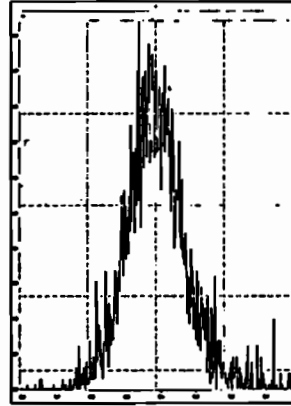
M 366.9792 R 13736



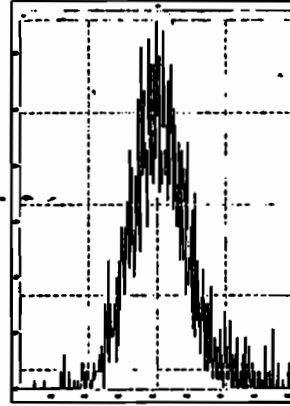
M 380.9760 R 11064



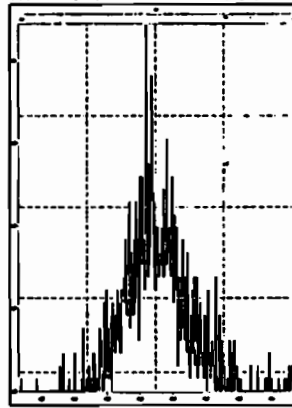
M 392.9760 R 12821



M 404.9760 R 12018



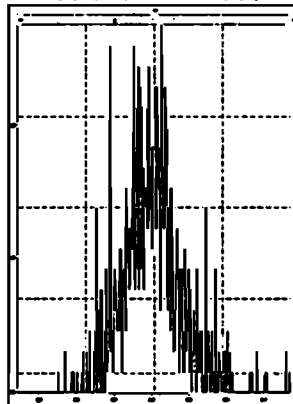
M 416.9760 R 13365



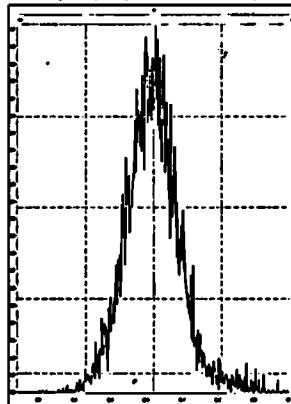
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Printed: Monday, December 07, 2020 07:40:17 Pacific Standard Time

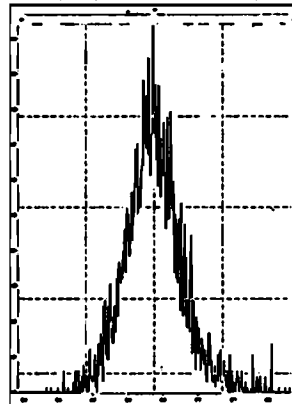
M 366.9792 R 13968



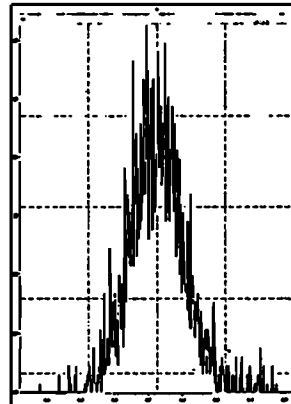
M 380.9760 R 12135



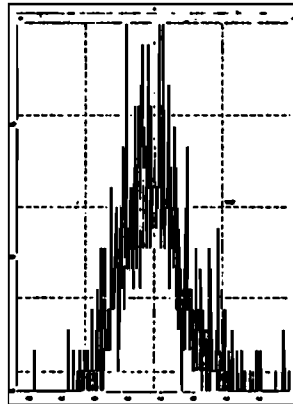
M 392.9760 R 12628



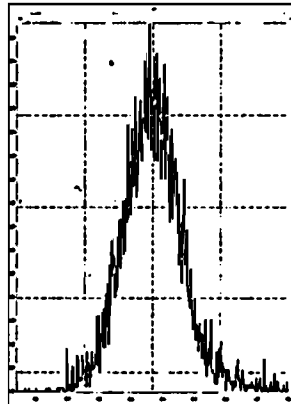
M 404.9760 R 12019



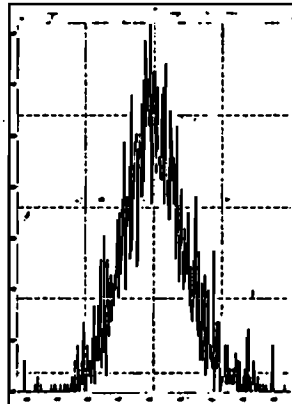
M 416.9760 R 13886



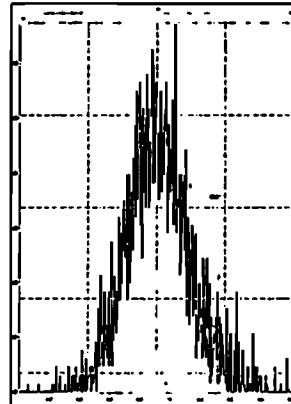
M 430.9728 R 11014



M 442.9728 R 11519



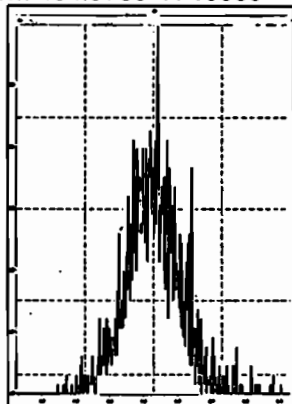
M 454.9728 R 12133



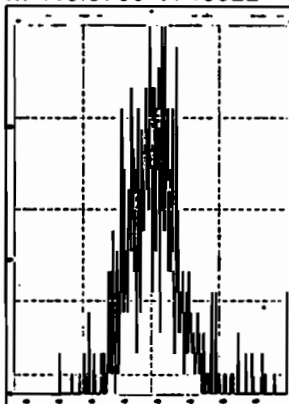
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Printed: Monday, December 07, 2020 07:40:36 Pacific Standard Time

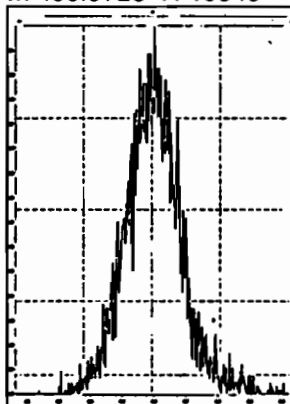
M 404.9760 R 13089



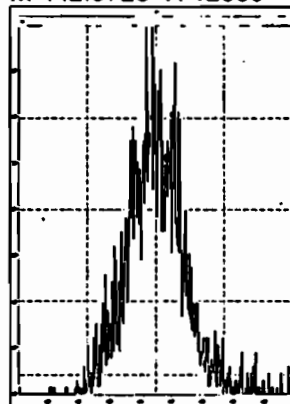
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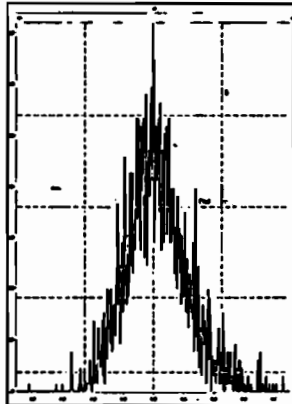
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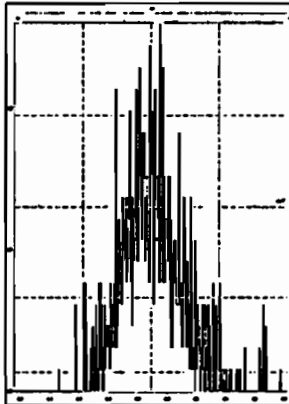
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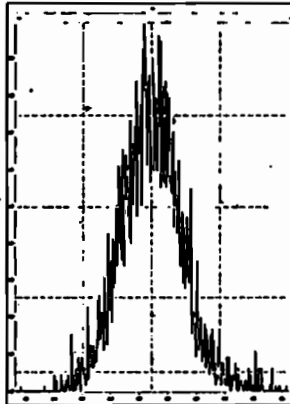
M 454.9728 R 13511



M 466.9728 R 15060



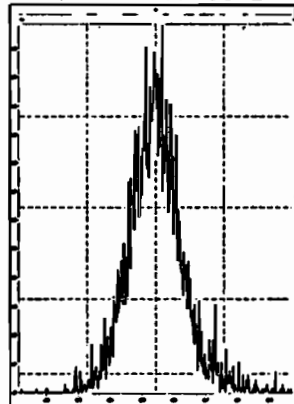
M 480.9696 R 10682



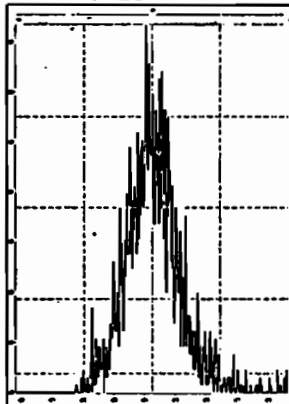
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Printed: Monday, December 07, 2020 07:40:52 Pacific Standard Time

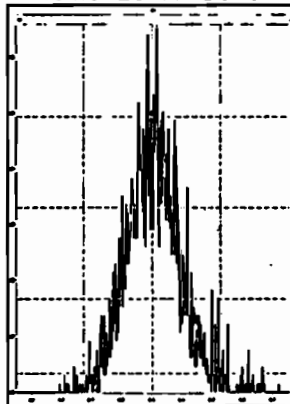
M 430.9728 R 13812



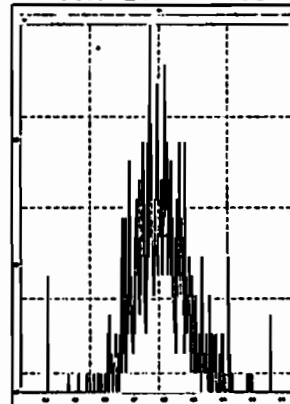
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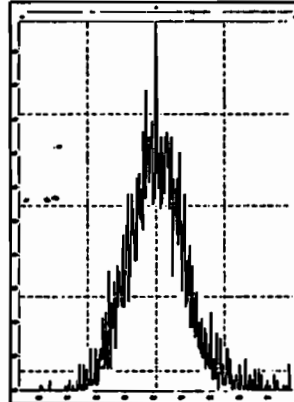
M 454.9728 R 12315



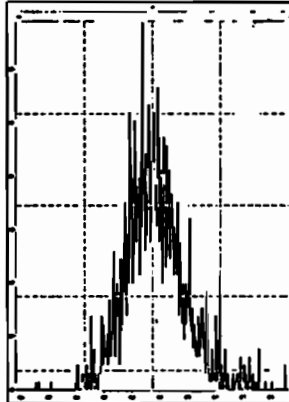
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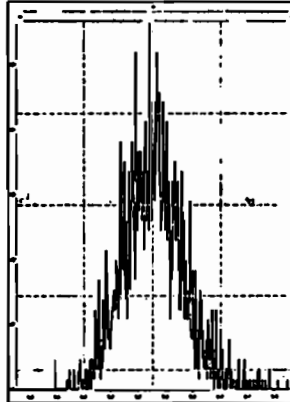
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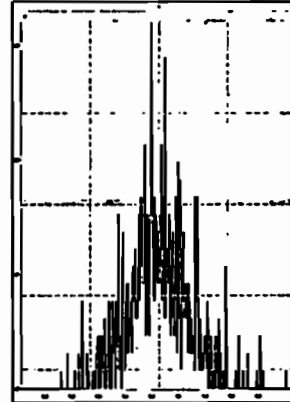
M 492.9696 R 12437



M 504.9696 R 12564



M 516.9697 R 14619



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:22:41 Pacific Daylight Time

GRB 10/20/20
HW 10/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 20 Oct 2020 10:47:39

Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 14:36:10

Compound name: 2,3,7,8-TCDD

Response Factor: 0.950098

RRF SD: 0.10465, Relative SD: 11.0146

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	201020R1_1	0.250	0.81	NO	26.29	1.001	2.37e3	1.11e6	0.224	-10.3	0.852	MM
2	201020R1_2	0.500	0.75	NO	26.31	1.001	5.59e3	1.28e6	0.460	-8.0	0.874	bb
3	201020R1_3	2.00	0.75	NO	26.29	1.001	2.28e4	1.32e6	1.82	-8.9	0.866	bb
4	201020R1_4	40.0	0.77	NO	26.32	1.000	3.56e5	8.62e5	43.4	8.6	1.03	bb
5	201020R1_5	300	0.78	NO	26.29	1.001	4.63e6	1.39e6	350	16.7	1.11	bb
6	201020R1_6	10.0	0.76	NO	26.29	1.001	1.18e5	1.22e6	10.2	1.9	0.969	MM

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.885499

RRF SD: 0.0848416, Relative SD: 9.58122

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	201020R1_1	1.25	0.59	NO	30.96	1.001	8.54e3	8.68e5	1.11	-11.0	0.788	bb
2	201020R1_2	2.50	0.63	NO	30.96	1.000	1.82e4	9.11e5	2.25	-9.8	0.798	bb
3	201020R1_3	10.0	0.61	NO	30.96	1.001	8.73e4	1.03e6	9.59	-4.1	0.849	bb
4	201020R1_4	200	0.62	NO	30.98	1.001	1.24e6	6.47e5	217	8.5	0.961	MM
5	201020R1_5	1500	0.62	NO	30.98	1.001	1.71e7	1.16e6	1670	11.0	0.983	bb
6	201020R1_6	50.0	0.62	NO	30.96	1.001	4.46e5	9.55e5	52.7	5.5	0.934	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time
 Printed: Tuesday, October 20, 2020 15:22:41 Pacific Daylight Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.01755

RRF SD: 0.10207, Relative SD: 10.0309

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	201020R1_1	1.25	1.20	NO	34.28	1.000	6.99e3	6.21e5	1.11	-11.5	0.901	bd
2	201020R1_2	2.50	1.26	NO	34.27	1.000	1.48e4	6.65e5	2.19	-12.3	0.892	bd
3	201020R1_3	10.0	1.25	NO	34.28	1.001	7.13e4	7.07e5	9.91	-0.9	1.01	bd
4	201020R1_4	200	1.24	NO	34.29	1.000	1.04e6	4.71e5	218	8.9	1.11	bd
5	201020R1_5	1500	1.23	NO	34.28	1.000	1.49e7	8.81e5	1660	10.7	1.13	bd
6	201020R1_6	50.0	1.27	NO	34.28	1.000	3.59e5	6.72e5	52.5	5.0	1.07	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.914527

RRF SD: 0.0845585, Relative SD: 9.24614

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	201020R1_1	1.25	1.17	NO	34.41	1.001	7.95e3	7.36e5	1.18	-5.5	0.864	db
2	201020R1_2	2.50	1.28	NO	34.40	1.001	1.57e4	7.73e5	2.22	-11.1	0.813	db
3	201020R1_3	10.0	1.29	NO	34.40	1.001	7.37e4	8.70e5	9.27	-7.3	0.847	db
4	201020R1_4	200	1.25	NO	34.41	1.001	1.17e6	5.87e5	218	8.9	0.996	db
5	201020R1_5	1500	1.24	NO	34.40	1.000	1.55e7	1.02e6	1670	11.1	1.02	db
6	201020R1_6	50.0	1.26	NO	34.41	1.001	3.73e5	7.84e5	52.0	4.0	0.951	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.934452

RRF SD: 0.104124, Relative SD: 11.1428

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	201020R1_1	1.25	1.17	NO	34.67	1.000	6.89e3	6.69e5	1.10	-11.8	0.824	bb
2	201020R1_2	2.50	1.24	NO	34.67	1.000	1.48e4	7.19e5	2.21	-11.8	0.825	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

Last Altered: Tuesday, October 20, 2020 14:36:10 Pacific Daylight Time
 Printed: Tuesday, October 20, 2020 15:22:41 Pacific Daylight 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	201020R1_3	10.0	1.25	NO	34.66	1.000	7.04e4	8.01e5	9.42	-5.8	0.880	bb
4	201020R1_4	200	1.24	NO	34.69	1.000	1.07e6	5.18e5	222	10.9	1.04	bb
5	201020R1_5	1500	1.24	NO	34.67	1.000	1.48e7	9.42e5	1680	12.3	1.05	bb
6	201020R1_6	50.0	1.24	NO	34.67	1.000	3.59e5	7.24e5	53.1	6.2	0.992	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.869732
 RRF SD: 0.101922, Relative SD: 11.7188
 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	201020R1_1	1.25	1.01	NO	38.16	1.001	5.19e3	5.60e5	1.07	-14.6	0.742	bb
2	201020R1_2	2.50	1.00	NO	38.14	1.000	1.26e4	6.39e5	2.27	-9.4	0.788	bb
3	201020R1_3	10.0	1.06	NO	38.15	1.000	5.46e4	6.69e5	9.38	-6.2	0.816	bd
4	201020R1_4	200	1.03	NO	38.16	1.000	8.51e5	4.44e5	221	10.3	0.960	bb
5	201020R1_5	1500	1.03	NO	38.16	1.001	1.20e7	8.00e5	1720	14.6	0.997	bb
6	201020R1_6	50.0	1.01	NO	38.16	1.000	2.81e5	6.15e5	52.6	5.2	0.915	bb

Compound name: OCDD

Response Factor: 0.871682
 RRF SD: 0.0918681, Relative SD: 10.5392
 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	201020R1_1	2.50	0.91	NO	41.11	1.000	8.88e3	8.86e5	2.30	-8.0	0.802	MM
2	201020R1_2	5.00	0.83	NO	41.10	1.000	2.03e4	1.06e6	4.38	-12.3	0.764	bd
3	201020R1_3	20.0	0.91	NO	41.12	1.000	9.08e4	1.12e6	18.6	-7.0	0.811	bd
4	201020R1_4	400	0.89	NO	41.10	1.000	1.42e6	7.38e5	442	10.4	0.963	bb
5	201020R1_5	3000	0.87	NO	41.13	1.000	2.01e7	1.36e6	3380	12.8	0.983	bb
6	201020R1_6	100	0.88	NO	41.12	1.000	4.65e5	1.02e6	104	4.1	0.907	MM

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Compound name: 2,3,7,8-TCDF

Response Factor: 0.824288
 RRF SD: 0.0905517, Relative SD: 10.9854
 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	201020R1_1	0.250	0.75	NO	25.61	1.001	2.81e3	1.53e6	0.223	-11.0	0.734	MM
2	201020R1_2	0.500	0.74	NO	25.61	1.001	6.37e3	1.70e6	0.454	-9.1	0.749	MM
3	201020R1_3	2.00	0.77	NO	25.61	1.001	2.79e4	1.82e6	1.86	-7.2	0.765	bb
4	201020R1_4	40.0	0.75	NO	25.64	1.000	4.26e5	1.19e6	43.4	8.5	0.895	bb
5	201020R1_5	300	0.76	NO	25.61	1.001	5.36e6	1.86e6	349	16.4	0.959	bb
6	201020R1_6	10.0	0.75	NO	25.61	1.001	1.42e5	1.69e6	10.2	2.4	0.844	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.962587
 RRF SD: 0.0802385, Relative SD: 8.33572
 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	201020R1_1	1.25	1.60	NO	29.71	1.001	1.34e4	1.22e6	1.14	-8.9	0.877	bb
2	201020R1_2	2.50	1.55	NO	29.71	1.001	2.85e4	1.30e6	2.27	-9.4	0.872	bb
3	201020R1_3	10.0	1.60	NO	29.71	1.001	1.32e5	1.42e6	9.68	-3.2	0.932	bb
4	201020R1_4	200	1.56	NO	29.73	1.001	1.94e6	9.55e5	211	5.6	1.02	bd
5	201020R1_5	1500	1.55	NO	29.71	1.000	2.60e7	1.63e6	1660	10.5	1.06	bb
6	201020R1_6	50.0	1.57	NO	29.71	1.001	7.00e5	1.38e6	52.7	5.4	1.01	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 1.06841
 RRF SD: 0.0935936, Relative SD: 8.76011
 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	201020R1_1	1.25	1.58	NO	30.76	1.000	1.39e4	1.16e6	1.13	-9.8	0.964	bb
2	201020R1_2	2.50	1.59	NO	30.77	1.001	3.11e4	1.29e6	2.26	-9.6	0.966	bb

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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	201020R1_3	10.0	1.62	NO	30.75	1.000	1.51e5	1.45e6	9.71	-2.9	1.04	bb
4	201020R1_4	200	1.56	NO	30.77	1.000	2.12e6	9.27e5	214	7.1	1.14	bd
5	201020R1_5	1500	1.55	NO	30.77	1.001	2.83e7	1.59e6	1660	10.9	1.18	bb
6	201020R1_6	50.0	1.55	NO	30.76	1.000	7.58e5	1.36e6	52.1	4.2	1.11	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.953478
 RRF SD: 0.113056, Relative SD: 11.8572
 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	201020R1_1	1.25	1.21	NO	33.37	1.000	8.75e3	8.65e5	1.06	-15.1	0.809	bd
2	201020R1_2	2.50	1.22	NO	33.37	1.000	1.91e4	9.23e5	2.17	-13.2	0.828	bd
3	201020R1_3	10.0	1.23	NO	33.37	1.001	9.24e4	9.76e5	9.93	-0.7	0.947	bd
4	201020R1_4	200	1.22	NO	33.38	1.000	1.33e6	6.36e5	219	9.6	1.05	bd
5	201020R1_5	1500	1.22	NO	33.37	1.000	1.86e7	1.15e6	1690	12.9	1.08	bd
6	201020R1_6	50.0	1.23	NO	33.37	1.000	4.69e5	9.24e5	53.2	6.4	1.01	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 1.00798
 RRF SD: 0.112388, Relative SD: 11.1498
 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	201020R1_1	1.25	1.18	NO	33.50	1.000	1.00e4	9.15e5	1.08	-13.2	0.875	db
2	201020R1_2	2.50	1.29	NO	33.50	1.000	2.13e4	9.59e5	2.20	-11.9	0.888	db
3	201020R1_3	10.0	1.23	NO	33.50	1.001	1.00e5	1.03e6	9.63	-3.7	0.971	db
4	201020R1_4	200	1.22	NO	33.51	1.000	1.55e6	6.96e5	221	10.5	1.11	db
5	201020R1_5	1500	1.22	NO	33.50	1.000	2.04e7	1.21e6	1680	11.7	1.13	db
6	201020R1_6	50.0	1.23	NO	33.50	1.000	5.13e5	9.53e5	53.3	6.7	1.08	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 0.990683

RRF SD: 0.116635, Relative SD: 11.7732

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	201020R1_1	1.25	1.19	NO	34.18	1.001	8.93e3	8.28e5	1.09	-12.9	0.863	bb
2	201020R1_2	2.50	1.24	NO	34.17	1.000	1.87e4	8.79e5	2.15	-13.9	0.853	bb
3	201020R1_3	10.0	1.27	NO	34.17	1.001	9.17e4	9.58e5	9.66	-3.4	0.957	bb
4	201020R1_4	200	1.23	NO	34.18	1.000	1.37e6	6.32e5	219	9.6	1.09	bb
5	201020R1_5	1500	1.22	NO	34.17	1.000	1.87e7	1.11e6	1700	13.3	1.12	bb
6	201020R1_6	50.0	1.22	NO	34.18	1.001	4.65e5	8.75e5	53.6	7.3	1.06	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.950625

RRF SD: 0.11684, Relative SD: 12.2908

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	201020R1_1	1.25	1.23	NO	35.18	1.001	7.16e3	6.87e5	1.10	-12.3	0.834	bb
2	201020R1_2	2.50	1.20	NO	35.18	1.001	1.62e4	7.96e5	2.14	-14.5	0.813	bb
3	201020R1_3	10.0	1.19	NO	35.17	1.001	7.41e4	8.23e5	9.48	-5.2	0.901	bb
4	201020R1_4	200	1.23	NO	35.19	1.001	1.15e6	5.57e5	217	8.6	1.03	bb
5	201020R1_5	1500	1.23	NO	35.18	1.001	1.60e7	9.75e5	1720	14.8	1.09	bb
6	201020R1_6	50.0	1.25	NO	35.18	1.000	3.95e5	7.65e5	54.3	8.6	1.03	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 0.998573

RRF SD: 0.149251, Relative SD: 14.9464

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	201020R1_1	1.25	0.94	NO	36.74	1.000	6.80e3	6.49e5	1.05	-16.2	0.837	bb
2	201020R1_2	2.50	0.96	NO	36.73	1.000	1.54e4	7.21e5	2.13	-14.7	0.852	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	201020R1_3	10.0	0.99	NO	36.74	1.000	7.28e4	8.00e5	9.11	-8.9	0.909	bb
4	201020R1_4	200	1.01	NO	36.76	1.000	1.11e6	4.85e5	230	14.9	1.15	bb
5	201020R1_5	1500	1.01	NO	36.76	1.001	1.52e7	8.73e5	1750	16.3	1.16	bb
6	201020R1_6	50.0	1.01	NO	36.76	1.000	3.78e5	6.97e5	54.2	8.5	1.08	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.12384
 RRF SD: 0.136934, Relative SD: 12.1845
 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	201020R1_1	1.25	1.02	NO	38.77	1.000	5.83e3	4.78e5	1.08	-13.2	0.975	MM
2	201020R1_2	2.50	1.00	NO	38.77	1.000	1.44e4	5.79e5	2.21	-11.4	0.995	MM
3	201020R1_3	10.0	1.02	NO	38.77	1.000	5.99e4	5.77e5	9.23	-7.7	1.04	bb
4	201020R1_4	200	1.01	NO	38.77	1.000	9.50e5	3.83e5	220	10.2	1.24	bb
5	201020R1_5	1500	1.00	NO	38.78	1.000	1.36e7	7.02e5	1720	14.8	1.29	bb
6	201020R1_6	50.0	1.01	NO	38.78	1.000	3.25e5	5.39e5	53.7	7.4	1.21	bb

Compound name: OCDF

Response Factor: 0.868237
 RRF SD: 0.10594, Relative SD: 12.2017
 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	201020R1_1	2.50	0.84	NO	41.38	1.000	9.82e3	1.05e6	2.16	-13.7	0.749	MM
2	201020R1_2	5.00	0.90	NO	41.39	1.000	2.31e4	1.24e6	4.32	-13.7	0.750	MM
3	201020R1_3	20.0	0.88	NO	41.40	1.000	1.08e5	1.29e6	19.3	-3.6	0.837	bb
4	201020R1_4	400	0.89	NO	41.39	1.000	1.66e6	8.74e5	439	9.7	0.952	bb
5	201020R1_5	3000	0.89	NO	41.41	1.000	2.39e7	1.60e6	3450	14.9	0.998	bb
6	201020R1_6	100	0.87	NO	41.41	1.000	5.43e5	1.18e6	106	6.4	0.924	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.10889

RRF SD: 0.0354221, Relative SD: 3.19438

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	201020R1_1	100	0.79	NO	26.27	1.030	1.11e6	1.05e6	95.9	-4.1	1.06	bb
2	201020R1_2	100	0.79	NO	26.27	1.030	1.28e6	1.12e6	103	2.6	1.14	bd
3	201020R1_3	100	0.79	NO	26.27	1.030	1.32e6	1.18e6	100	0.5	1.11	bb
4	201020R1_4	100	0.78	NO	26.31	1.030	8.62e5	7.98e5	97.4	-2.6	1.08	bb
5	201020R1_5	100	0.79	NO	26.27	1.030	1.39e6	1.20e6	104	4.4	1.16	bb
6	201020R1_6	100	0.78	NO	26.27	1.030	1.22e6	1.11e6	99.1	-0.9	1.10	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.858504

RRF SD: 0.0583655, Relative SD: 6.79851

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	201020R1_1	100	0.62	NO	30.94	1.212	8.68e5	1.05e6	96.7	-3.3	0.830	bb
2	201020R1_2	100	0.63	NO	30.96	1.213	9.11e5	1.12e6	94.4	-5.6	0.811	bb
3	201020R1_3	100	0.63	NO	30.94	1.212	1.03e6	1.18e6	101	1.4	0.871	bb
4	201020R1_4	100	0.62	NO	30.96	1.212	6.47e5	7.98e5	94.5	-5.5	0.811	MM
5	201020R1_5	100	0.63	NO	30.96	1.213	1.16e6	1.20e6	112	12.5	0.966	bb
6	201020R1_6	100	0.63	NO	30.94	1.212	9.55e5	1.11e6	100	0.5	0.863	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.699736

RRF SD: 0.0536682, Relative SD: 7.66977

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	201020R1_1	100	1.28	NO	34.27	1.014	6.21e5	9.36e5	94.9	-5.1	0.664	bd
2	201020R1_2	100	1.27	NO	34.27	1.014	6.65e5	9.80e5	97.0	-3.0	0.679	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	201020R1_3	100	1.29	NO	34.26	1.014	7.07e5	1.05e6	96.3	-3.7	0.674	bd
4	201020R1_4	100	1.27	NO	34.28	1.014	4.71e5	6.87e5	98.1	-1.9	0.686	bd
5	201020R1_5	100	1.28	NO	34.27	1.014	8.81e5	1.09e6	115	15.4	0.808	bd
6	201020R1_6	100	1.28	NO	34.27	1.014	6.72e5	9.76e5	98.4	-1.6	0.688	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.832718

RRF SD: 0.0561256, Relative SD: 6.74005

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	201020R1_1	100	1.27	NO	34.38	1.017	7.36e5	9.36e5	94.5	-5.5	0.787	db
2	201020R1_2	100	1.27	NO	34.38	1.017	7.73e5	9.80e5	94.7	-5.3	0.789	db
3	201020R1_3	100	1.29	NO	34.38	1.017	8.70e5	1.05e6	99.5	-0.5	0.829	db
4	201020R1_4	100	1.28	NO	34.39	1.017	5.87e5	6.87e5	103	2.5	0.854	db
5	201020R1_5	100	1.26	NO	34.39	1.018	1.02e6	1.09e6	112	12.2	0.935	db
6	201020R1_6	100	1.27	NO	34.39	1.018	7.84e5	9.76e5	96.5	-3.5	0.803	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.761805

RRF SD: 0.0524899, Relative SD: 6.8902

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	201020R1_1	100	1.24	NO	34.66	1.026	6.69e5	9.36e5	93.9	-6.1	0.715	bb
2	201020R1_2	100	1.21	NO	34.66	1.026	7.19e5	9.80e5	96.3	-3.7	0.733	bb
3	201020R1_3	100	1.23	NO	34.65	1.025	8.01e5	1.05e6	100	0.1	0.763	bb
4	201020R1_4	100	1.27	NO	34.67	1.026	5.18e5	6.87e5	99.1	-0.9	0.755	MM
5	201020R1_5	100	1.24	NO	34.66	1.026	9.42e5	1.09e6	113	13.3	0.863	MM
6	201020R1_6	100	1.25	NO	34.66	1.026	7.24e5	9.76e5	97.4	-2.6	0.742	bb

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

Response Factor: 0.649564
 RRF SD: 0.0451664, Relative SD: 6.95334
 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	201020R1_1	100	1.05	NO	38.14	1.128	5.60e5	9.36e5	92.1	-7.9	0.598	bb
2	201020R1_2	100	1.09	NO	38.14	1.128	6.39e5	9.80e5	100	0.4	0.652	MM
3	201020R1_3	100	1.04	NO	38.14	1.128	6.69e5	1.05e6	98.2	-1.8	0.638	bb
4	201020R1_4	100	1.07	NO	38.15	1.128	4.44e5	6.87e5	99.4	-0.6	0.646	MM
5	201020R1_5	100	1.07	NO	38.14	1.128	8.00e5	1.09e6	113	12.9	0.733	MM
6	201020R1_6	100	1.04	NO	38.15	1.129	6.15e5	9.76e5	97.0	-3.0	0.630	MM

Compound name: 13C-OCDD

Response Factor: 0.539367
 RRF SD: 0.0489023, Relative SD: 9.06662
 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	201020R1_1	200	0.92	NO	41.10	1.216	8.86e5	9.36e5	175	-12.3	0.473	bb
2	201020R1_2	200	0.90	NO	41.08	1.216	1.06e6	9.80e5	201	0.4	0.542	bb
3	201020R1_3	200	0.89	NO	41.11	1.216	1.12e6	1.05e6	198	-1.0	0.534	bb
4	201020R1_4	200	0.88	NO	41.08	1.215	7.38e5	6.87e5	199	-0.4	0.537	bb
5	201020R1_5	200	0.89	NO	41.10	1.216	1.36e6	1.09e6	232	15.9	0.625	bb
6	201020R1_6	200	0.89	NO	41.10	1.216	1.02e6	9.76e5	195	-2.6	0.525	bb

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 0.981384
 RRF SD: 0.0297957, Relative SD: 3.03609
 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	201020R1_1	100	0.78	NO	25.59	1.003	1.53e6	1.65e6	94.6	-5.4	0.928	bb
2	201020R1_2	100	0.77	NO	25.59	1.003	1.70e6	1.75e6	99.3	-0.7	0.974	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-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	201020R1_3	100	0.77	NO	25.59	1.003	1.82e6	1.83e6	101	1.3	0.994	bb
4	201020R1_4	100	0.77	NO	25.63	1.003	1.19e6	1.22e6	99.5	-0.5	0.976	bb
5	201020R1_5	100	0.78	NO	25.59	1.003	1.86e6	1.84e6	103	3.0	1.01	bb
6	201020R1_6	100	0.78	NO	25.59	1.003	1.69e6	1.68e6	102	2.3	1.00	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.791688

RRF SD: 0.0545703, Relative SD: 6.89291

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	201020R1_1	100	1.58	NO	29.69	1.163	1.22e6	1.65e6	93.5	-6.5	0.740	bb
2	201020R1_2	100	1.58	NO	29.69	1.163	1.30e6	1.75e6	94.3	-5.7	0.747	bb
3	201020R1_3	100	1.61	NO	29.69	1.163	1.42e6	1.83e6	97.5	-2.5	0.772	bb
4	201020R1_4	100	1.61	NO	29.71	1.163	9.55e5	1.22e6	99.0	-1.0	0.784	bd
5	201020R1_5	100	1.58	NO	29.71	1.164	1.63e6	1.84e6	112	11.9	0.886	bb
6	201020R1_6	100	1.59	NO	29.69	1.163	1.38e6	1.68e6	104	3.7	0.821	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.777714

RRF SD: 0.0578231, Relative SD: 7.435

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	201020R1_1	100	1.59	NO	30.76	1.205	1.15e6	1.65e6	90.1	-9.9	0.701	bb
2	201020R1_2	100	1.61	NO	30.75	1.205	1.29e6	1.75e6	94.8	-5.2	0.737	bb
3	201020R1_3	100	1.62	NO	30.75	1.205	1.45e6	1.83e6	102	1.9	0.793	bb
4	201020R1_4	100	1.60	NO	30.77	1.205	9.27e5	1.22e6	97.8	-2.2	0.761	dd
5	201020R1_5	100	1.60	NO	30.75	1.205	1.59e6	1.84e6	111	11.2	0.865	bb
6	201020R1_6	100	1.60	NO	30.76	1.205	1.36e6	1.68e6	104	4.1	0.810	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 0.953706
 RRF SD: 0.0497892, Relative SD: 5.22061
 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	201020R1_1	100	0.51	NO	33.36	0.987	8.65e5	9.36e5	96.9	-3.1	0.924	bd
2	201020R1_2	100	0.51	NO	33.36	0.987	9.23e5	9.80e5	98.8	-1.2	0.942	bd
3	201020R1_3	100	0.51	NO	33.35	0.987	9.76e5	1.05e6	97.5	-2.5	0.930	bd
4	201020R1_4	100	0.51	NO	33.37	0.987	6.36e5	6.87e5	97.1	-2.9	0.926	bd
5	201020R1_5	100	0.51	NO	33.36	0.987	1.15e6	1.09e6	110	10.5	1.05	bd
6	201020R1_6	100	0.51	NO	33.36	0.987	9.24e5	9.76e5	99.3	-0.7	0.947	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.00595
 RRF SD: 0.0507361, Relative SD: 5.04362
 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	201020R1_1	100	0.50	NO	33.49	0.991	9.15e5	9.36e5	97.2	-2.8	0.978	db
2	201020R1_2	100	0.52	NO	33.49	0.991	9.59e5	9.80e5	97.3	-2.7	0.979	db
3	201020R1_3	100	0.52	NO	33.48	0.991	1.03e6	1.05e6	97.7	-2.3	0.982	db
4	201020R1_4	100	0.51	NO	33.50	0.991	6.96e5	6.87e5	101	0.8	1.01	db
5	201020R1_5	100	0.51	NO	33.49	0.991	1.21e6	1.09e6	110	9.9	1.11	db
6	201020R1_6	100	0.51	NO	33.49	0.991	9.53e5	9.76e5	97.1	-2.9	0.977	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 0.921049
 RRF SD: 0.0481045, Relative SD: 5.2228
 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	201020R1_1	100	0.52	NO	34.16	1.011	8.28e5	9.36e5	96.1	-3.9	0.885	bd
2	201020R1_2	100	0.51	NO	34.16	1.011	8.79e5	9.80e5	97.4	-2.6	0.897	bb

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Compound name: 13C-2,3,4,6,7,8-HxCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	201020R1_3	100	0.51	NO	34.15	1.010	9.58e5	1.05e6	99.1	-0.9	0.913	bb
4	201020R1_4	100	0.51	NO	34.17	1.011	6.32e5	6.87e5	99.8	-0.2	0.919	bb
5	201020R1_5	100	0.51	NO	34.16	1.011	1.11e6	1.09e6	110	10.3	1.02	bb
6	201020R1_6	100	0.50	NO	34.16	1.011	8.75e5	9.76e5	97.3	-2.7	0.897	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.803358
 RRF SD: 0.0529087, Relative SD: 6.58594
 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	201020R1_1	100	0.51	NO	35.16	1.040	6.87e5	9.36e5	91.4	-8.6	0.734	MM
2	201020R1_2	100	0.50	NO	35.16	1.040	7.96e5	9.80e5	101	1.1	0.813	bb
3	201020R1_3	100	0.52	NO	35.15	1.040	8.23e5	1.05e6	97.6	-2.4	0.784	bd
4	201020R1_4	100	0.50	NO	35.17	1.040	5.57e5	6.87e5	101	1.0	0.811	bd
5	201020R1_5	100	0.51	NO	35.16	1.040	9.75e5	1.09e6	111	11.3	0.894	bb
6	201020R1_6	100	0.51	NO	35.17	1.041	7.65e5	9.76e5	97.6	-2.4	0.784	bb

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

Response Factor: 0.735455
 RRF SD: 0.0398884, Relative SD: 5.42364
 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	201020R1_1	100	0.42	NO	36.73	1.087	6.49e5	9.36e5	94.3	-5.7	0.694	bb
2	201020R1_2	100	0.44	NO	36.73	1.087	7.21e5	9.80e5	100	0.0	0.736	bd
3	201020R1_3	100	0.41	NO	36.73	1.087	8.00e5	1.05e6	104	3.6	0.762	bb
4	201020R1_4	100	0.43	NO	36.75	1.087	4.85e5	6.87e5	96.0	-4.0	0.706	bb
5	201020R1_5	100	0.44	NO	36.74	1.087	8.73e5	1.09e6	109	8.8	0.800	bb
6	201020R1_6	100	0.43	NO	36.75	1.087	6.97e5	9.76e5	97.2	-2.8	0.715	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF
 Response Factor: 0.567644
 RRF SD: 0.0450507, Relative SD: 7.93644
 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	201020R1_1	100	0.44	NO	38.76	1.147	4.78e5	9.36e5	90.0	-10.0	0.511	bd
2	201020R1_2	100	0.43	NO	38.76	1.147	5.79e5	9.80e5	104	4.1	0.591	bb
3	201020R1_3	100	0.44	NO	38.76	1.147	5.77e5	1.05e6	96.9	-3.1	0.550	bd
4	201020R1_4	100	0.43	NO	38.76	1.147	3.83e5	6.87e5	98.3	-1.7	0.558	bd
5	201020R1_5	100	0.43	NO	38.77	1.147	7.02e5	1.09e6	113	13.4	0.644	bb
6	201020R1_6	100	0.45	NO	38.77	1.147	5.39e5	9.76e5	97.3	-2.7	0.552	bd

Compound name: 13C-OCDF
 Response Factor: 0.629245
 RRF SD: 0.0574861, Relative SD: 9.13572
 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	201020R1_1	200	0.91	NO	41.38	1.224	1.05e6	9.36e5	178	-11.0	0.560	MM
2	201020R1_2	200	0.87	NO	41.38	1.224	1.24e6	9.80e5	200	0.2	0.630	MM
3	201020R1_3	200	0.90	NO	41.40	1.225	1.29e6	1.05e6	195	-2.5	0.614	bd
4	201020R1_4	200	0.86	NO	41.38	1.224	8.74e5	6.87e5	202	1.1	0.636	bb
5	201020R1_5	200	0.88	NO	41.40	1.225	1.60e6	1.09e6	233	16.5	0.733	bb
6	201020R1_6	200	0.90	NO	41.39	1.225	1.18e6	9.76e5	191	-4.3	0.602	bd

Compound name: 37Cl-2,3,7,8-TCDD
 Response Factor: 1.08781
 RRF SD: 0.174332, Relative SD: 16.0259
 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	201020R1_1	0.250			26.29	1.030	2.24e3	1.05e6	0.197	-21.1	0.858	bb
2	201020R1_2	0.500			26.29	1.030	5.14e3	1.12e6	0.420	-15.9	0.915	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

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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	201020R1_3	2.00			26.29	1.030	2.59e4	1.18e6	2.02	0.8	1.10	bb
4	201020R1_4	40.0			26.32	1.031	3.82e5	7.98e5	44.0	10.0	1.20	bb
5	201020R1_5	200			26.29	1.030	3.17e6	1.20e6	243	21.4	1.32	bb
6	201020R1_6	10.0			26.29	1.030	1.26e5	1.11e6	10.5	4.8	1.14	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	201020R1_1	100	0.78	NO	25.52	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
2	201020R1_2	100	0.79	NO	25.52	1.000	1.12e6	1.12e6	100	0.0	1.00	bb
3	201020R1_3	100	0.78	NO	25.52	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
4	201020R1_4	100	0.77	NO	25.54	1.000	7.98e5	7.98e5	100	0.0	1.00	bb
5	201020R1_5	100	0.78	NO	25.52	1.000	1.20e6	1.20e6	100	0.0	1.00	bb
6	201020R1_6	100	0.79	NO	25.52	1.000	1.11e6	1.11e6	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	201020R1_1	100	0.80	NO	24.04	1.000	1.65e6	1.65e6	100	0.0	1.00	bb
2	201020R1_2	100	0.79	NO	24.06	1.000	1.75e6	1.75e6	100	0.0	1.00	bb
3	201020R1_3	100	0.79	NO	24.04	1.000	1.83e6	1.83e6	100	0.0	1.00	bb
4	201020R1_4	100	0.79	NO	24.07	1.000	1.22e6	1.22e6	100	0.0	1.00	bb
5	201020R1_5	100	0.79	NO	24.04	1.000	1.84e6	1.84e6	100	0.0	1.00	bb
6	201020R1_6	100	0.79	NO	24.04	1.000	1.68e6	1.68e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\201020R1\201020R1-CRV.qld

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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	201020R1_1	100	0.51	NO	33.80	1.000	9.36e5	9.36e5	100	0.0	1.00	bb
2	201020R1_2	100	0.52	NO	33.80	1.000	9.80e5	9.80e5	100	0.0	1.00	bb
3	201020R1_3	100	0.51	NO	33.80	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
4	201020R1_4	100	0.51	NO	33.81	1.000	6.87e5	6.87e5	100	0.0	1.00	bb
5	201020R1_5	100	0.51	NO	33.80	1.000	1.09e6	1.09e6	100	0.0	1.00	bb
6	201020R1_6	100	0.52	NO	33.80	1.000	9.76e5	9.76e5	100	0.0	1.00	bd

Dataset: Untitled

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Calibration: U:\VG12.PRO\CurveDB\ldbDIOXIN_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

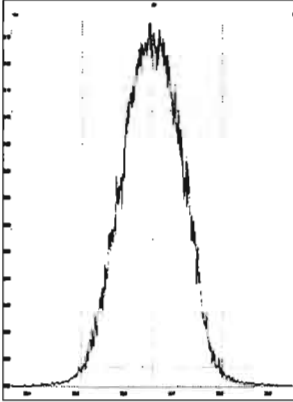
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3	201020R1_3	ST201020R1_3 1613 CS2 20F1104	20-Oct-20	10:48:17
4	201020R1_4	ST201020R1_4 1613 CS4 20F1106	20-Oct-20	11:32:31
5	201020R1_5	ST201020R1_5 1613 CS5 20F1107	20-Oct-20	12:16:56
6	201020R1_6	ST201020R1_6 1613 CS3 20F1105	20-Oct-20	13:01:38
7	201020R1_7	SOLVENT BLANK	20-Oct-20	13:45:46
8	201020R1_8	SS201020R1_1 1613 SSS 20F1108	20-Oct-20	14:29:33
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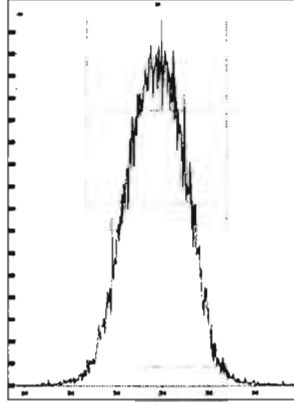
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Printed: Tuesday, October 20, 2020 09:00:19 Pacific Daylight Time

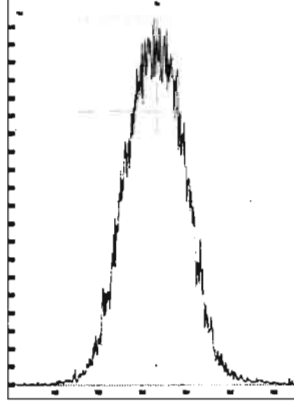
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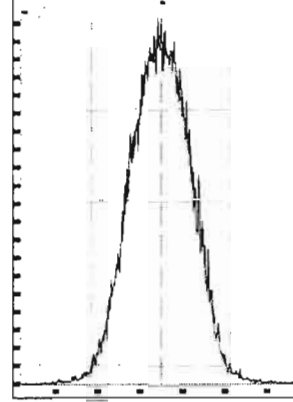
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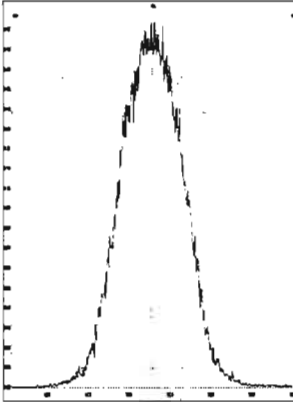
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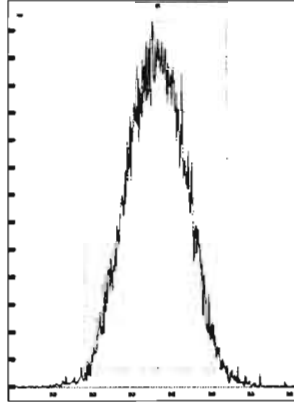
M 330.9792 R 10417



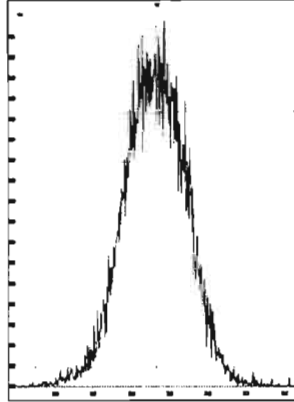
M 342.9792 R 10502



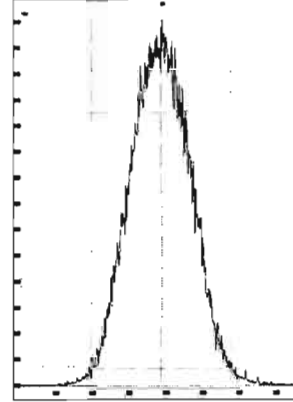
M 354.9792 R 10416



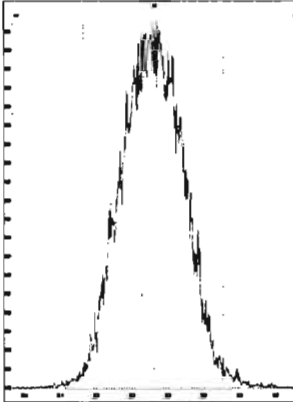
M 366.9792 R 10285



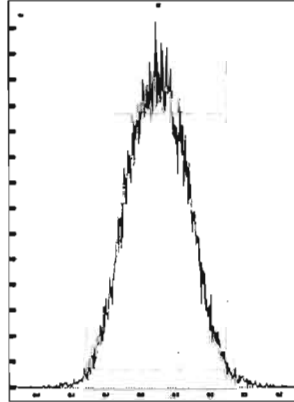
M 380.9760 R 10162



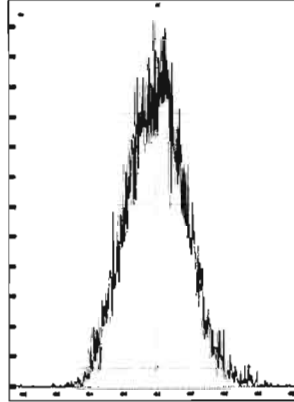
M 392.9760 R 10371



M 404.9760 R 10330



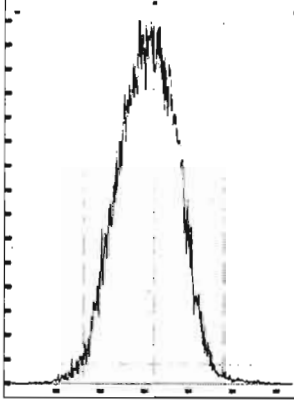
M 416.9760 R 10914



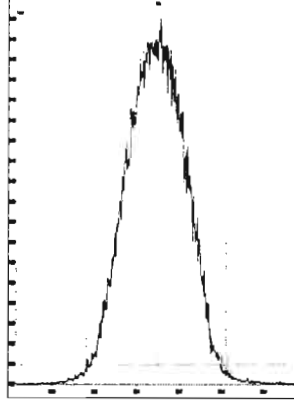
File: Experiment: OCDD_DB5_2.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, October 20, 2020 09:01:23 Pacific Daylight Time

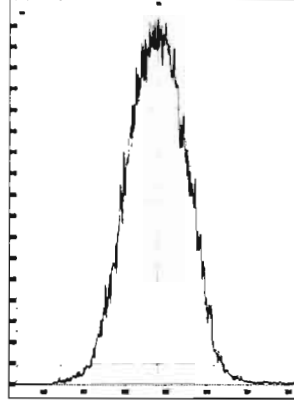
M 318.9792 R 10548



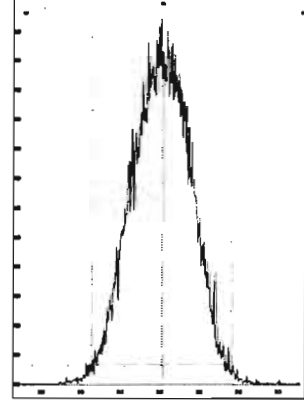
M 330.9792 R 10680



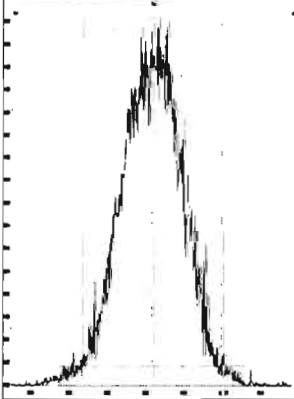
M 342.9792 R 10547



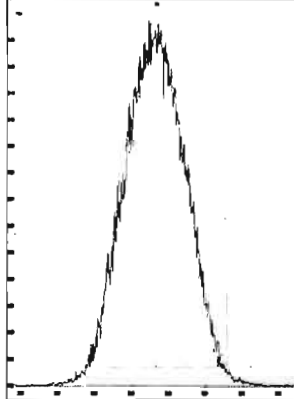
M 354.9792 R 10731



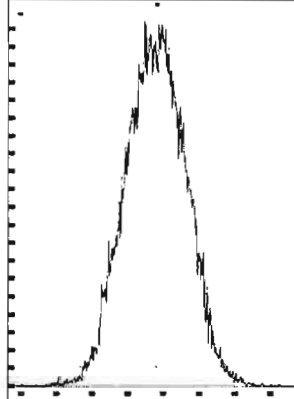
M 366.9792 R 10287



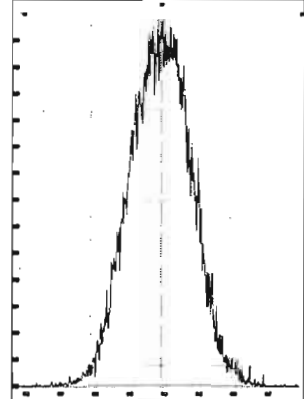
M 380.9760 R 10370



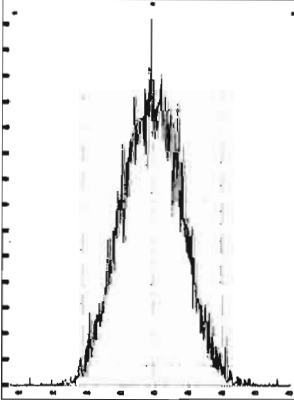
M 392.9760 R 10203



M 404.9760 R 10639



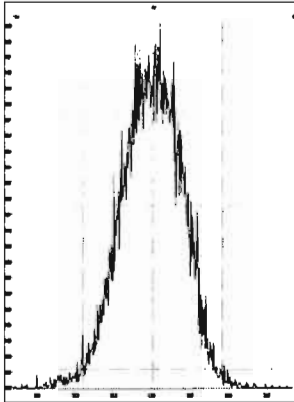
M 416.9760 R 11060



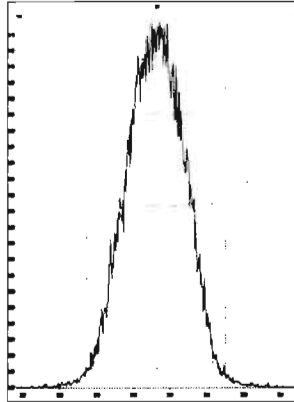
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Printed: Tuesday, October 20, 2020 09:02:28 Pacific Daylight Time

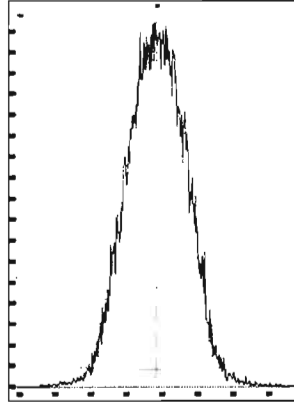
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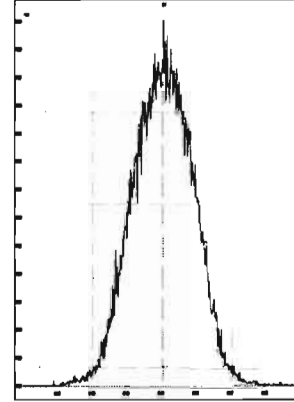
M 380.9760 R 10962



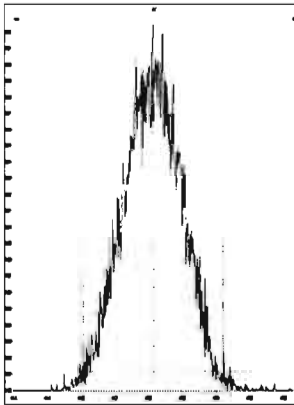
M 392.9760 R 11012



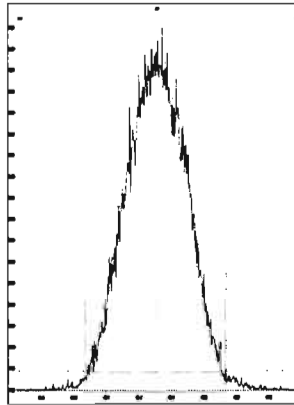
M 404.9760 R 10549



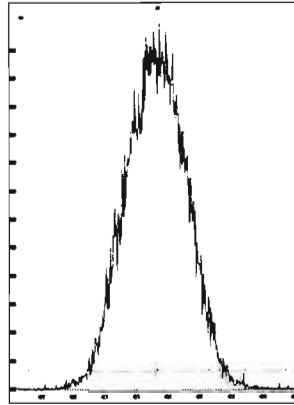
M 416.9760 R 11213



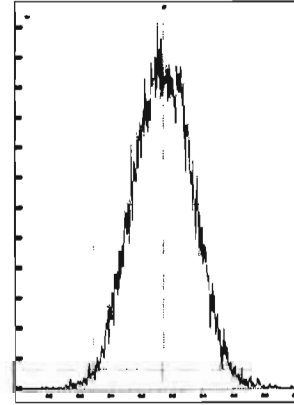
M 430.9728 R 10549



M 442.9728 R 10640



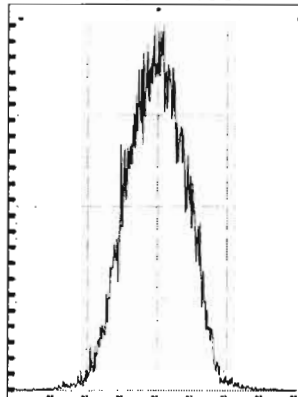
M 454.9728 R 10246



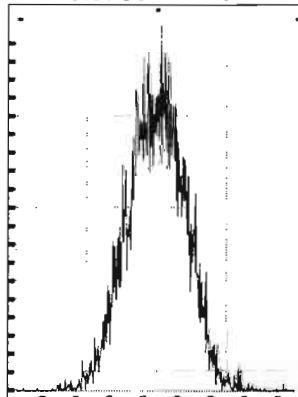
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Printed: Tuesday, October 20, 2020 09:03:26 Pacific Daylight Time

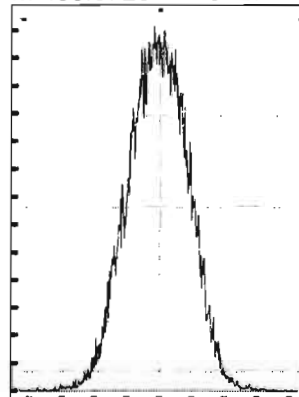
M 404.9760 R 10871



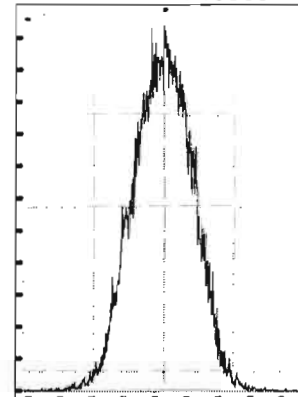
M 416.9760 R 11520



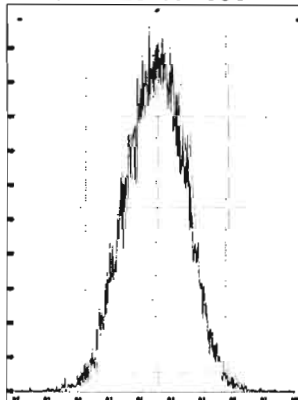
M 430.9728 R 10727



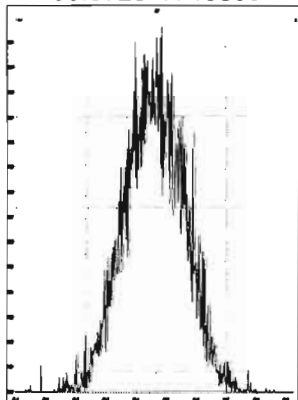
M 442.9728 R 10869



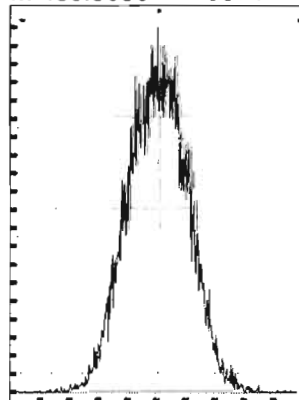
M 454.9728 R 10591



M 466.9728 R 10869



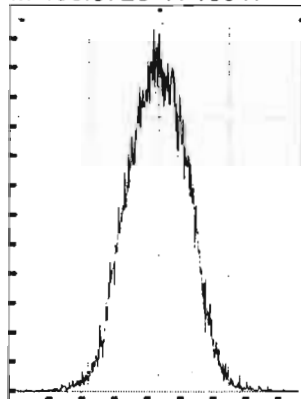
M 480.9696 R 10371



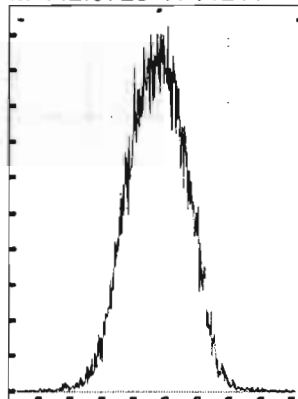
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Printed: Tuesday, October 20, 2020 09:04:30 Pacific Daylight Time

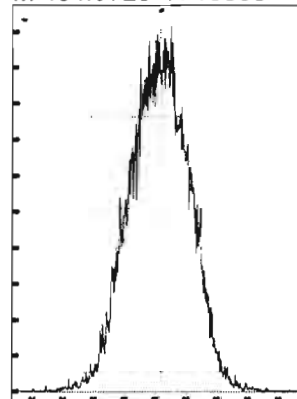
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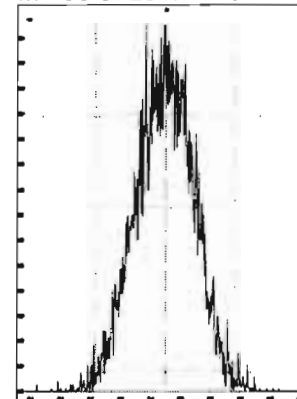
M 442.9728 R 11211



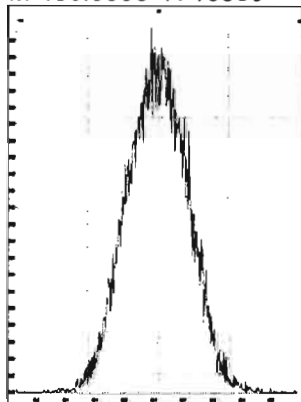
M 454.9728 R 10868



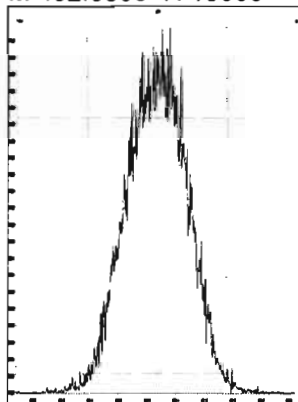
M 466.9728 R 11849



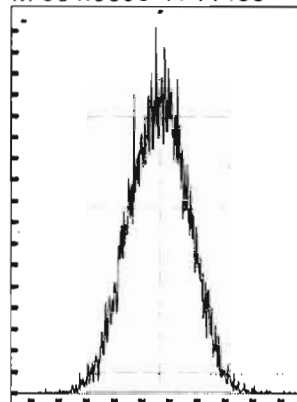
M 480.9696 R 10683



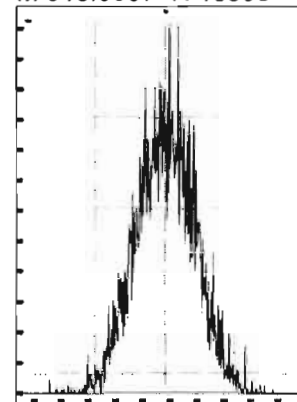
M 492.9696 R 10505



M 504.9696 R 11466



M 516.9697 R 10638



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Last Altered: Tuesday, October 20, 2020 14:59:30 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 14:59:49 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

Name: 201020R1_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

	# Name	RT
1	1 1,3,6,8-TCDD (First)	22.55
2	2 1,2,8,9-TCDD (Last)	27.18
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.32
5	5 1,2,4,6,7,9-HxCDD (First)	32.63
6	6 1,2,3,7,8,9-HxCDD (Last)	34.67
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.15
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.16
9	9 1,3,6,8-TCDF (First)	20.32
10	10 1,2,8,9-TCDF (Last)	27.49
11	11 1,3,4,6,8-PeCDF (First)	27.06
12	12 1,2,3,8,9-PeCDF (Last)	31.68
13	13 1,2,3,4,6,8-HxCDF (First)	32.10
14	14 1,2,3,7,8,9-HxCDF (Last)	35.18
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.76
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.78

Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 14:59:30 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 14:59:49 Pacific Daylight Time

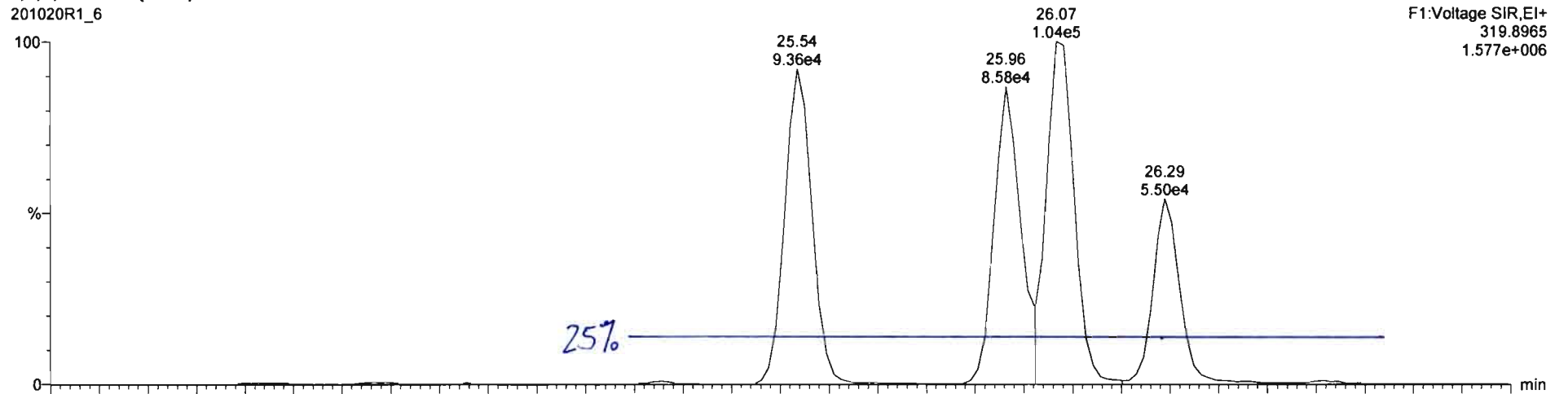
GRS 10/20/20
HN 10/22/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 20 Sep 2020 10:23:28
Calibration: U:\VG12.PRO\CurveDB\dbDIOXIN_1613vg12-10-10-20.cdb 12 Oct 2020 14:50:48

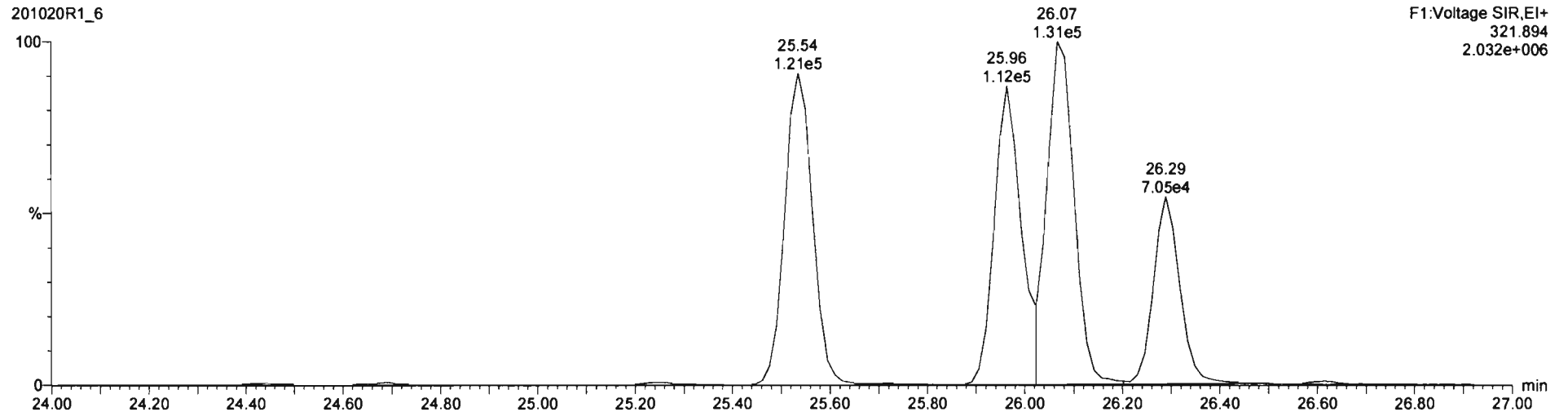
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1,3,6,8-TCDD (First)

201020R1_6

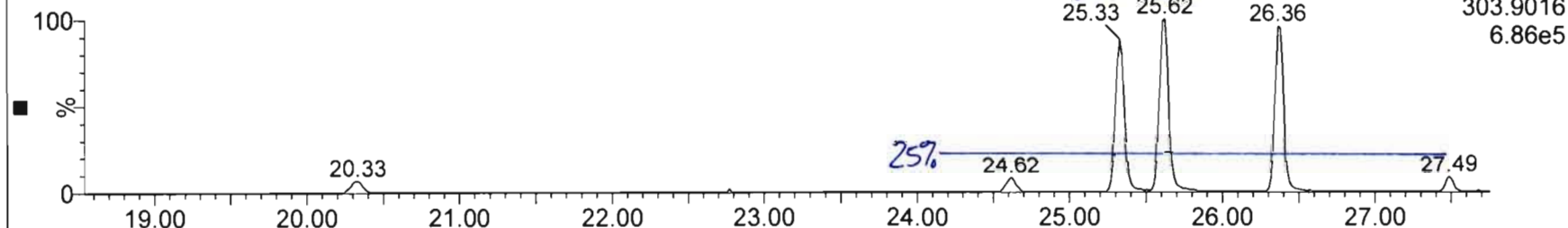


201020R1_6

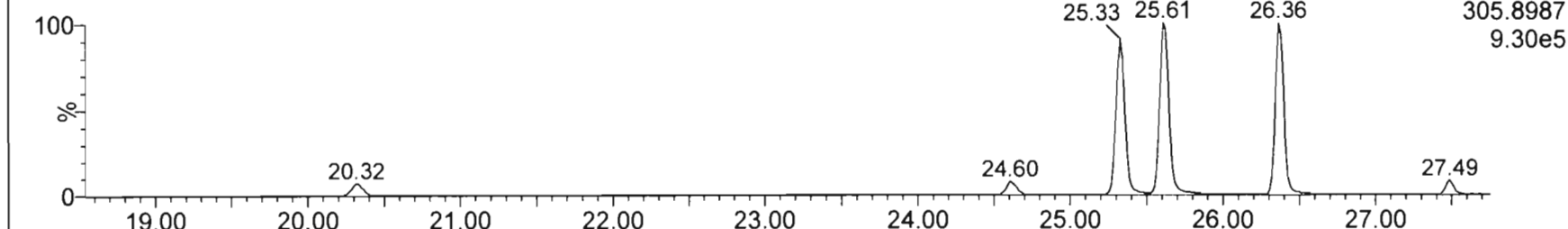


TCDF CPSM QC

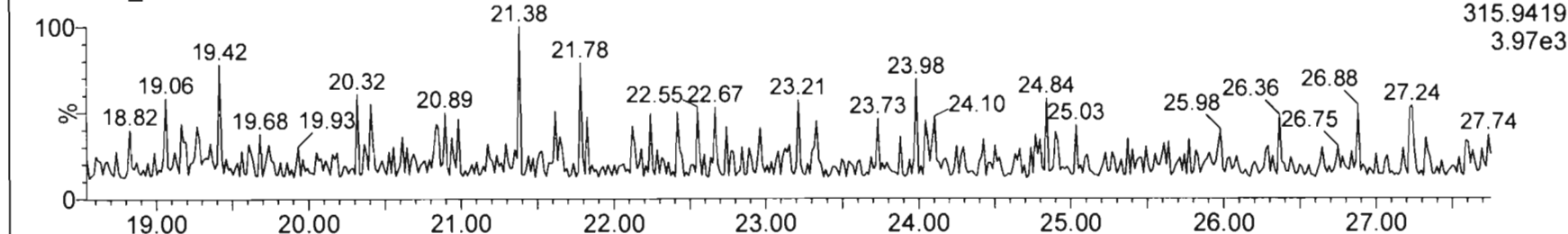
201020R1_9



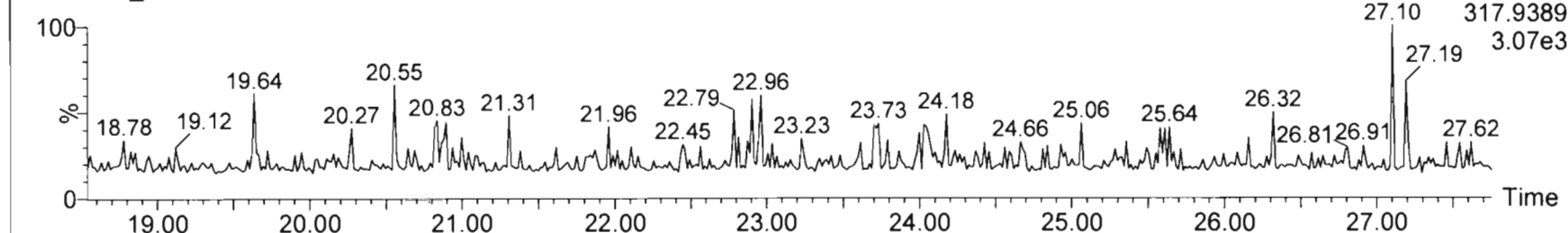
201020R1_9



201020R1_9



201020R1_9



Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time

Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

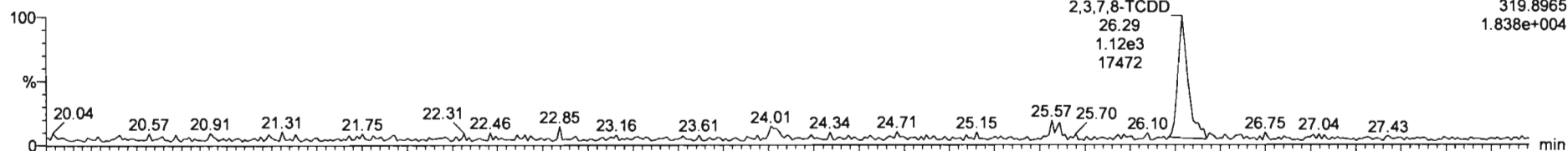
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Calibration: 20 Oct 2020 15:17:40

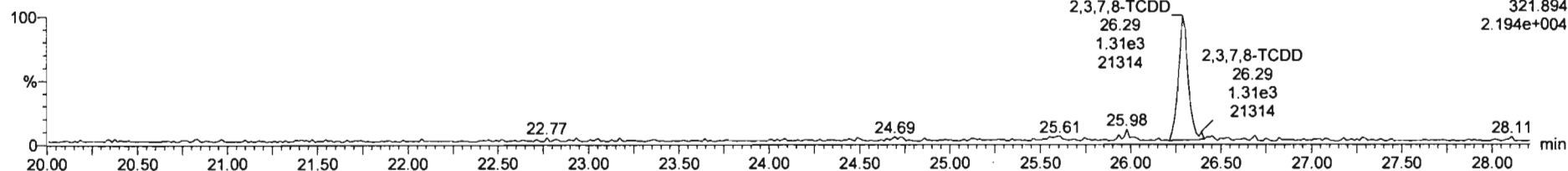
Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

2,3,7,8-TCDD

201020R1_1



201020R1_1

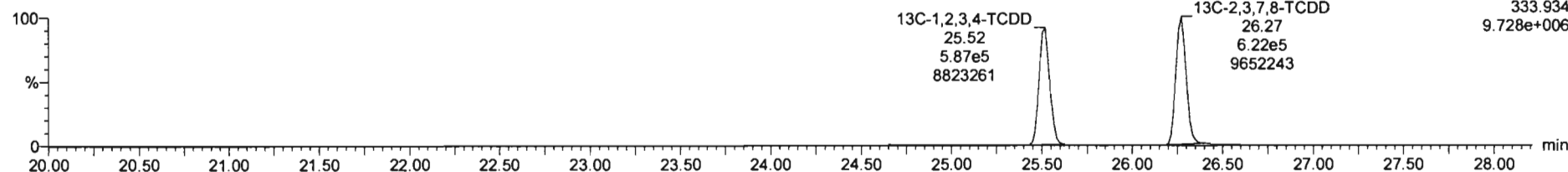


13C-2,3,7,8-TCDD

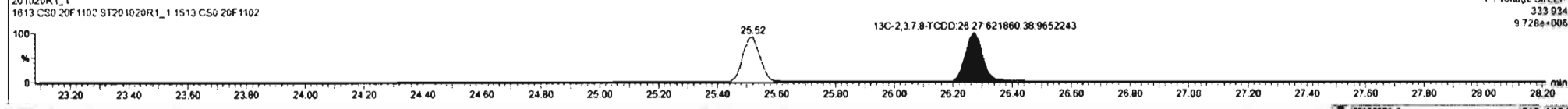
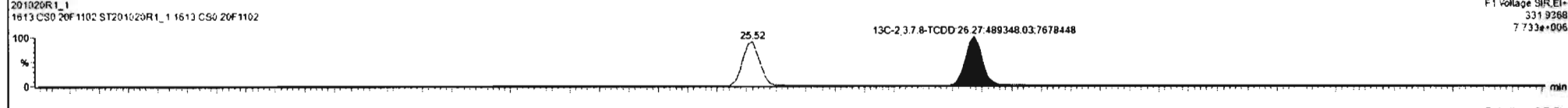
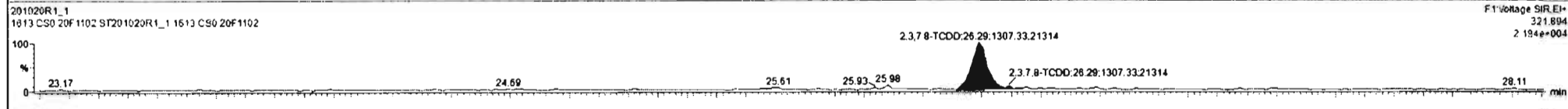
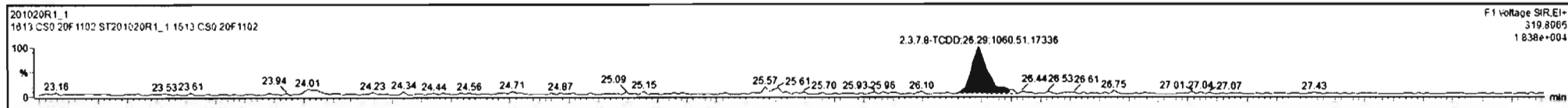
201020R1_1



201020R1_1



#	Name	RT	RA	Yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5438e3	8.6783e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3628e5	1.250	-5.5	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8931e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.6	11.7	0.870	0.102
7	OCDD	41.11	0.907	NO	8.8776e3	8.8555e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.8093e3	1.5316e6	0.250	-11.0	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.684	NO	1.3382e4	1.2209e6	1.250	-8.9	8.34	0.963	0.0602
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3929e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.161	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.8325e3	8.2819e5	1.250	-12.9	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1604e3	6.8684e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8181e3	1.0480e6	2.500	-13.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.276	NO	7.3628e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0561



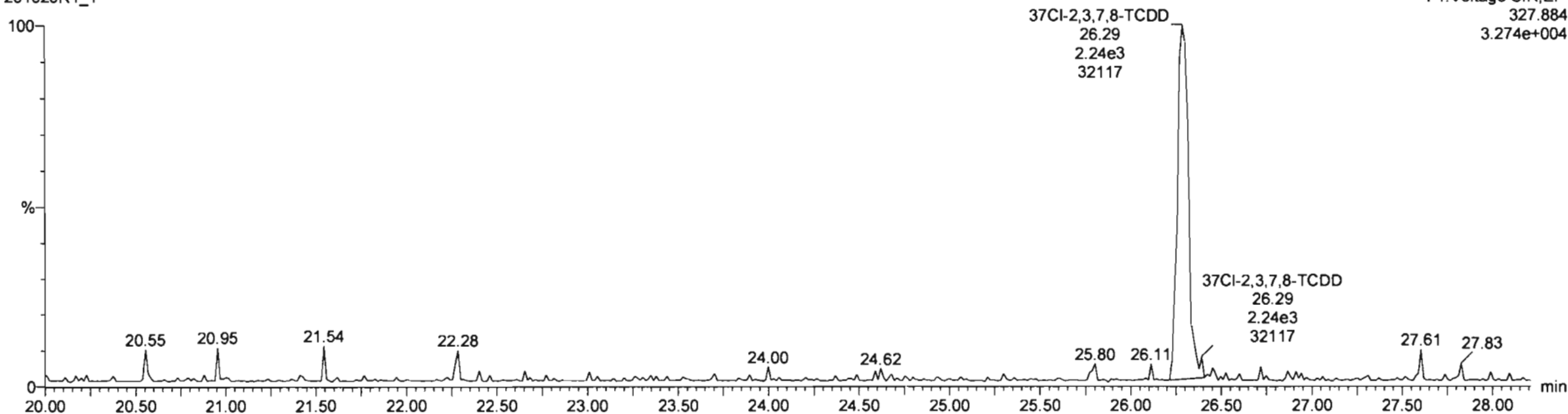
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

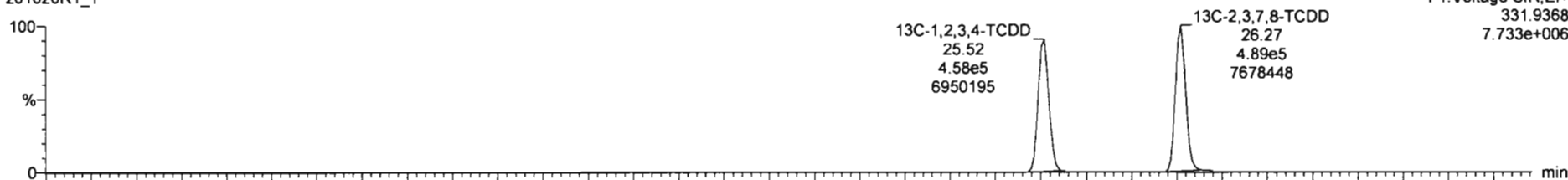
37Cl-2,3,7,8-TCDD

201020R1_1

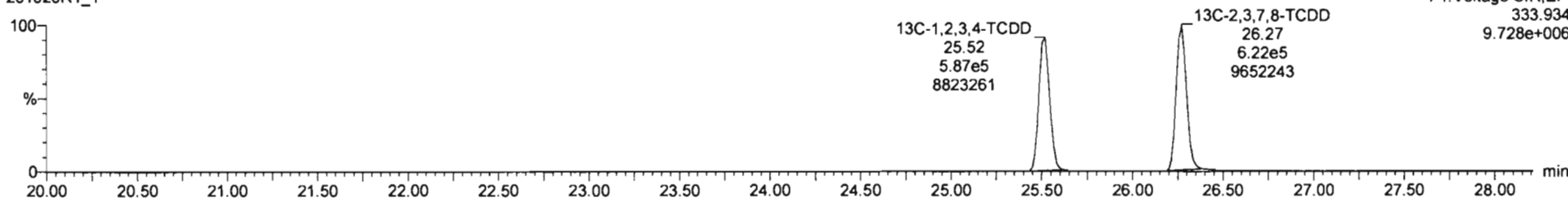


13C-1,2,3,4-TCDD

201020R1_1



201020R1_1



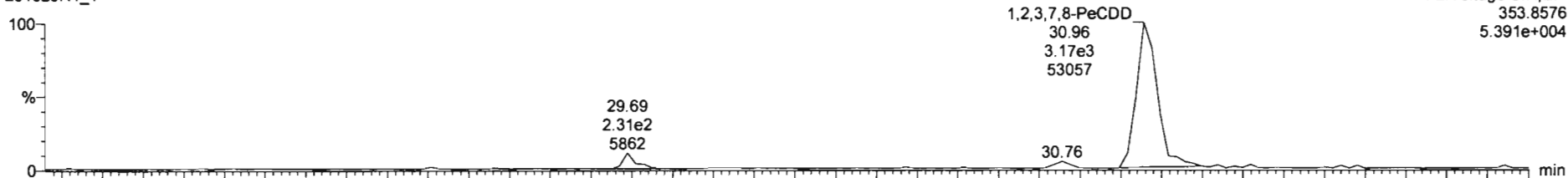
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Last Altered: Tuesday, October 20, 2020 15:17:40 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

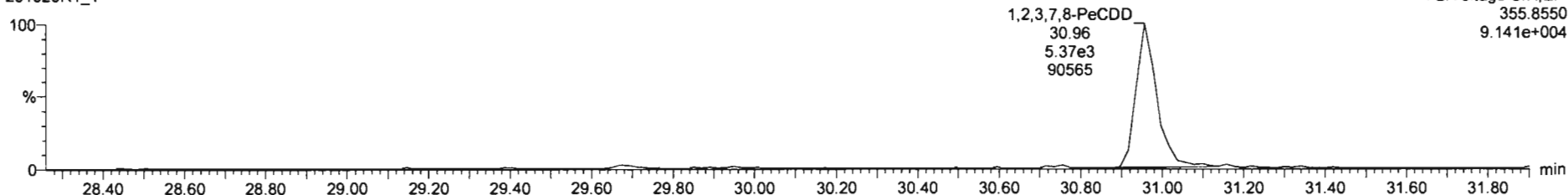
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1,2,3,7,8-PeCDD

201020R1_1

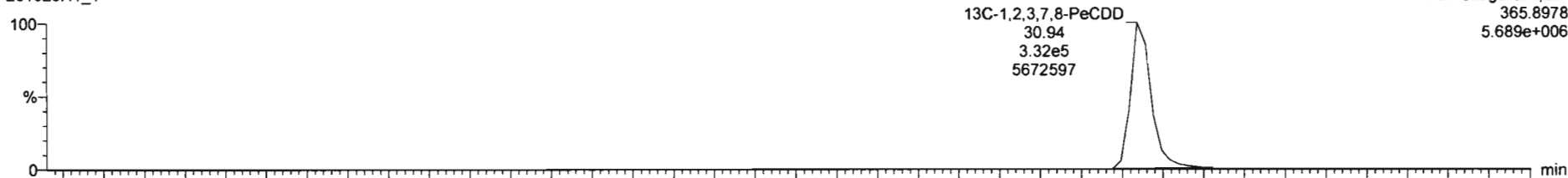


201020R1_1

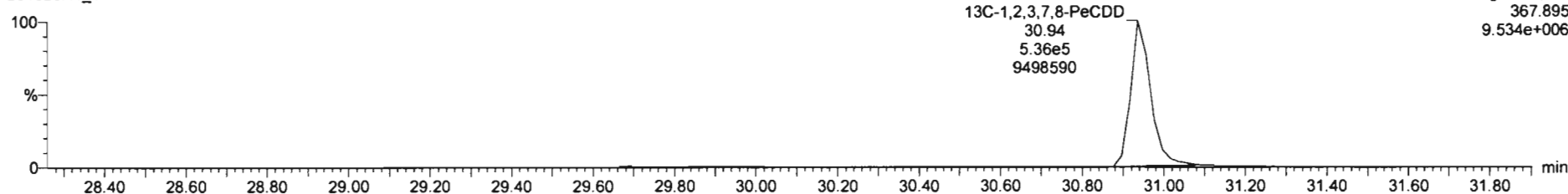


13C-1,2,3,7,8-PeCDD

201020R1_1



201020R1_1



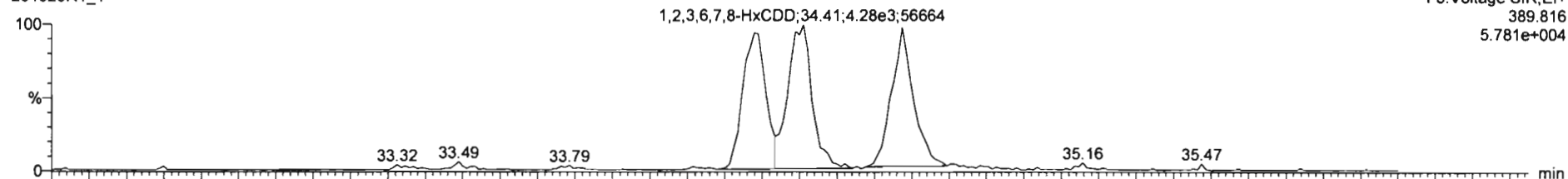
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

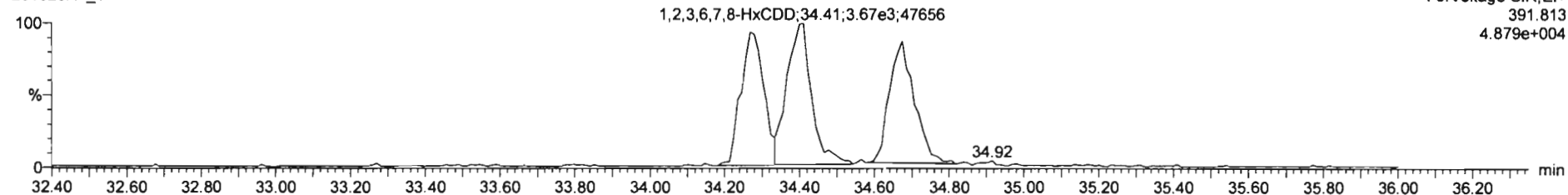
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1,2,3,4,7,8-HxCDD

201020R1_1

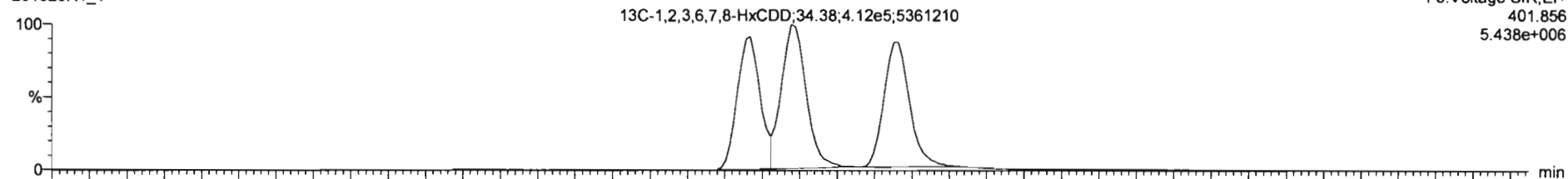


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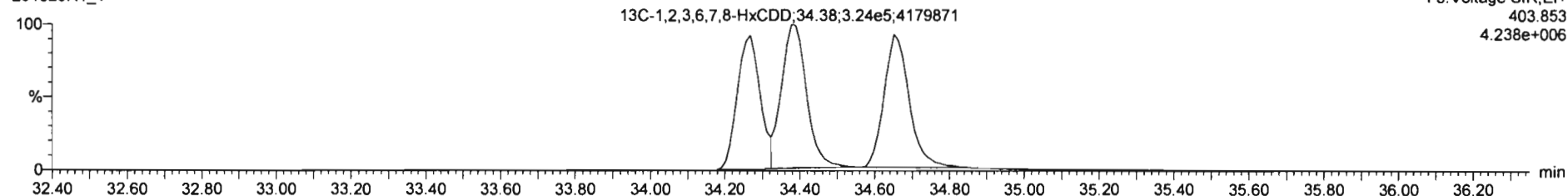


13C-1,2,3,4,7,8-HxCDD

201020R1_1



201020R1_1



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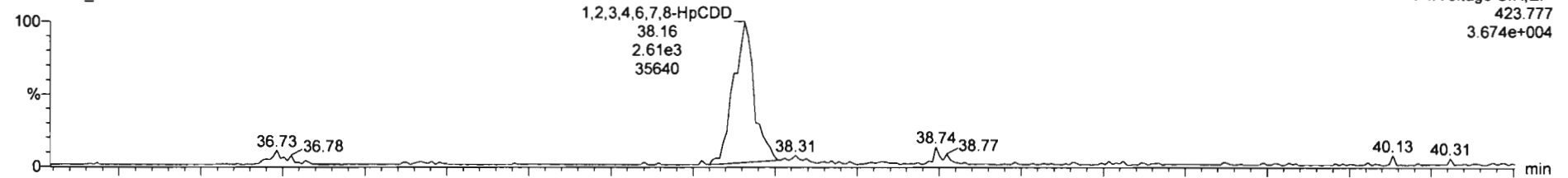
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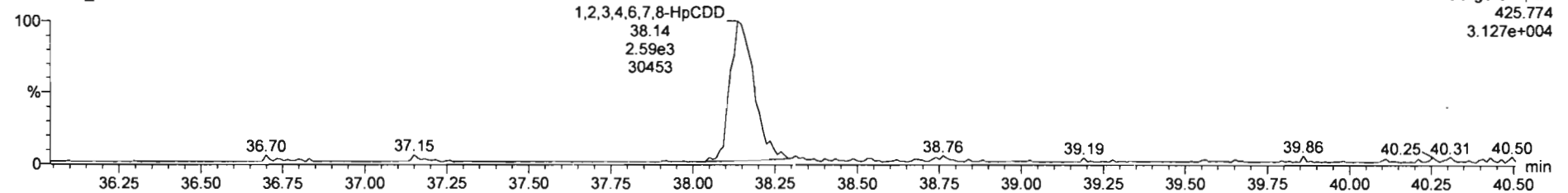
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1,2,3,4,6,7,8-HpCDD

201020R1_1

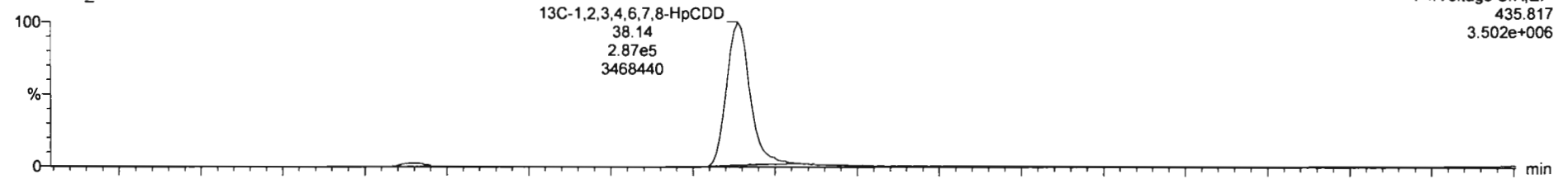


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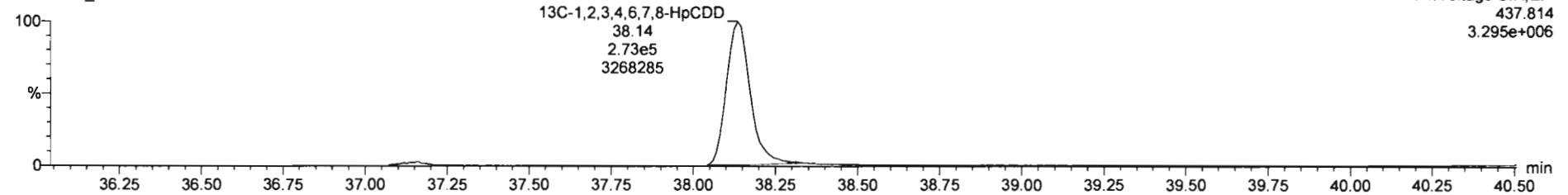


13C-1,2,3,4,6,7,8-HpCDD

201020R1_1



201020R1_1



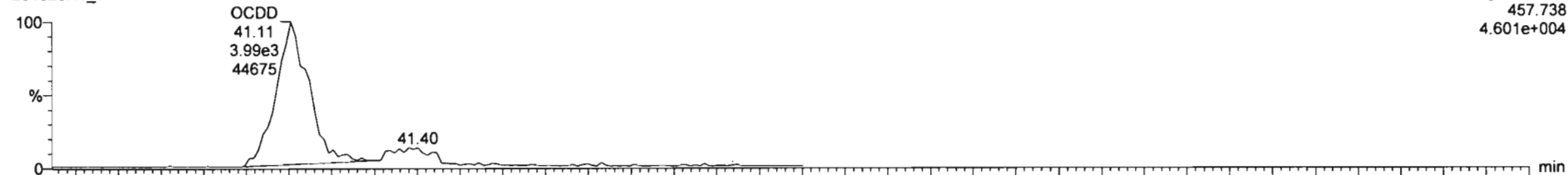
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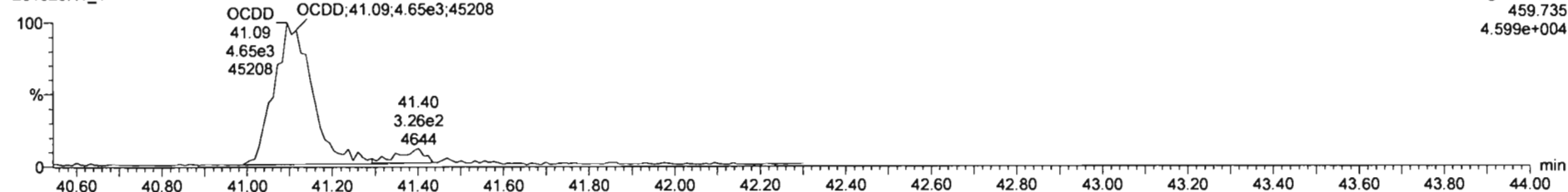
OCDD

201020R1_1



F5:Voltage SIR,EI+
457.738
4.601e+004

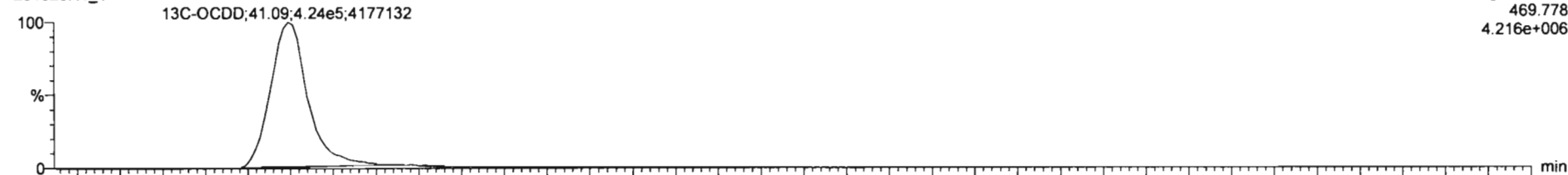
201020R1_1



F5:Voltage SIR,EI+
459.735
4.599e+004

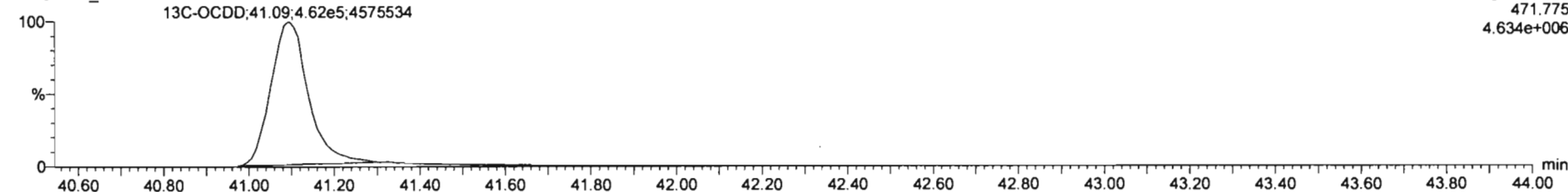
13C-OCDD

201020R1_1



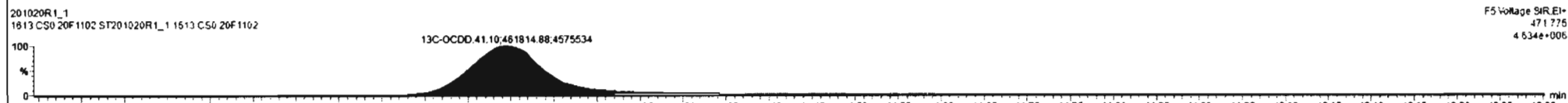
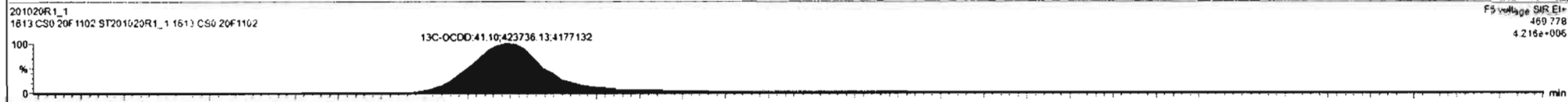
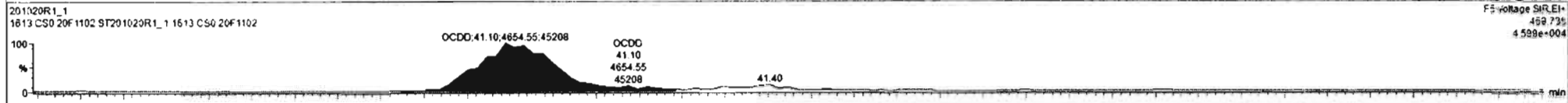
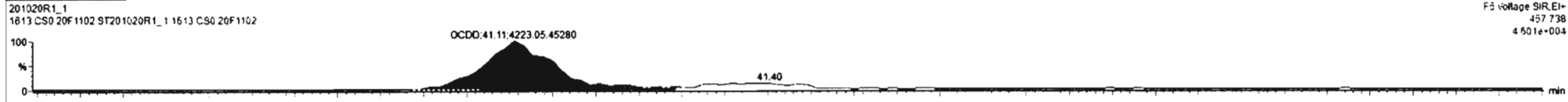
F5:Voltage SIR,EI+
469.778
4.216e+006

201020R1_1



F5:Voltage SIR,EI+
471.775
4.634e+006

Sl	Name	RT	RA	Yn	Area	IS Area	Std Conc	%Dev	MURSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5438e3	8.6783e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3828e5	1.250	-5.5	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8531e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.18	1.007	NO	5.1934e3	5.5958e5	1.250	-14.8	11.7	0.870	0.102
7	OCDD	41.11	0.907	NO	8.6778e3	8.855e5	2.500	-8.8	10.3	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.6093e3	1.6318e6	0.250	-11.0	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2209e6	1.250	-8.9	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3928e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.181	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.9325e3	8.2819e5	1.250	-12.9	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1694e3	6.6684e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8161e3	1.0480e6	2.500	-13.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	28.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.270	NO	7.3828e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0581



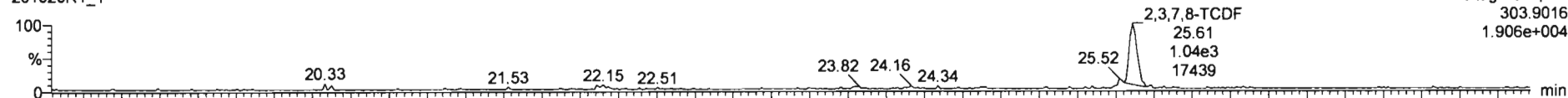
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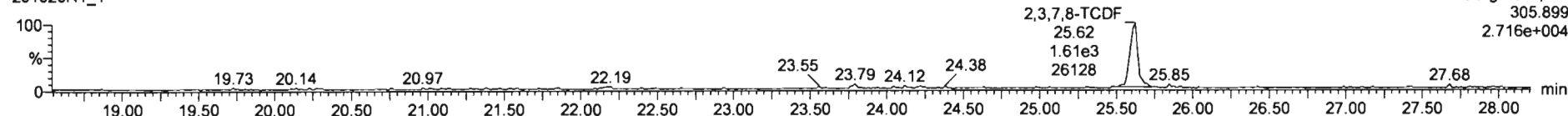
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2,3,7,8-TCDF

201020R1_1

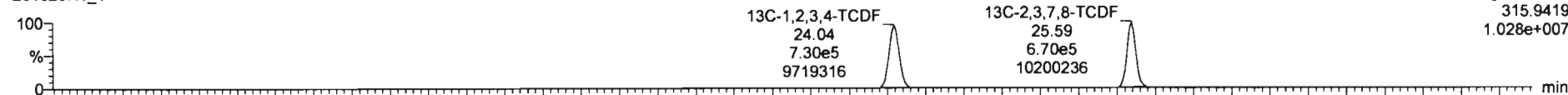


201020R1_1

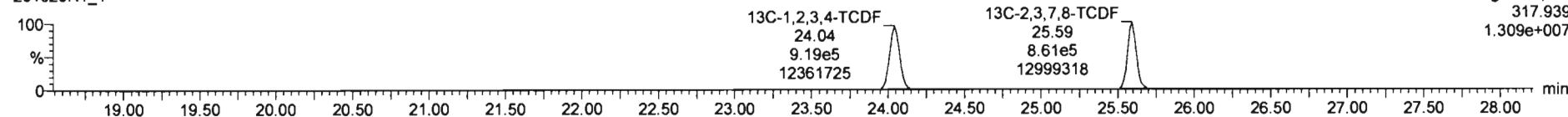


13C-2,3,7,8-TCDF

201020R1_1

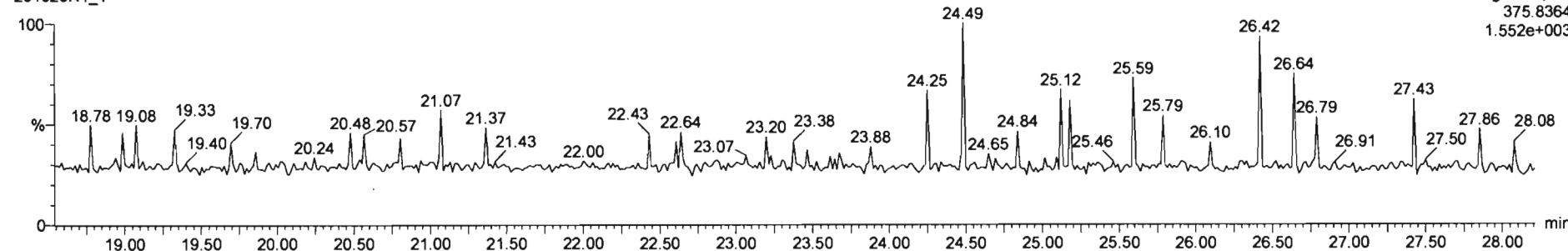


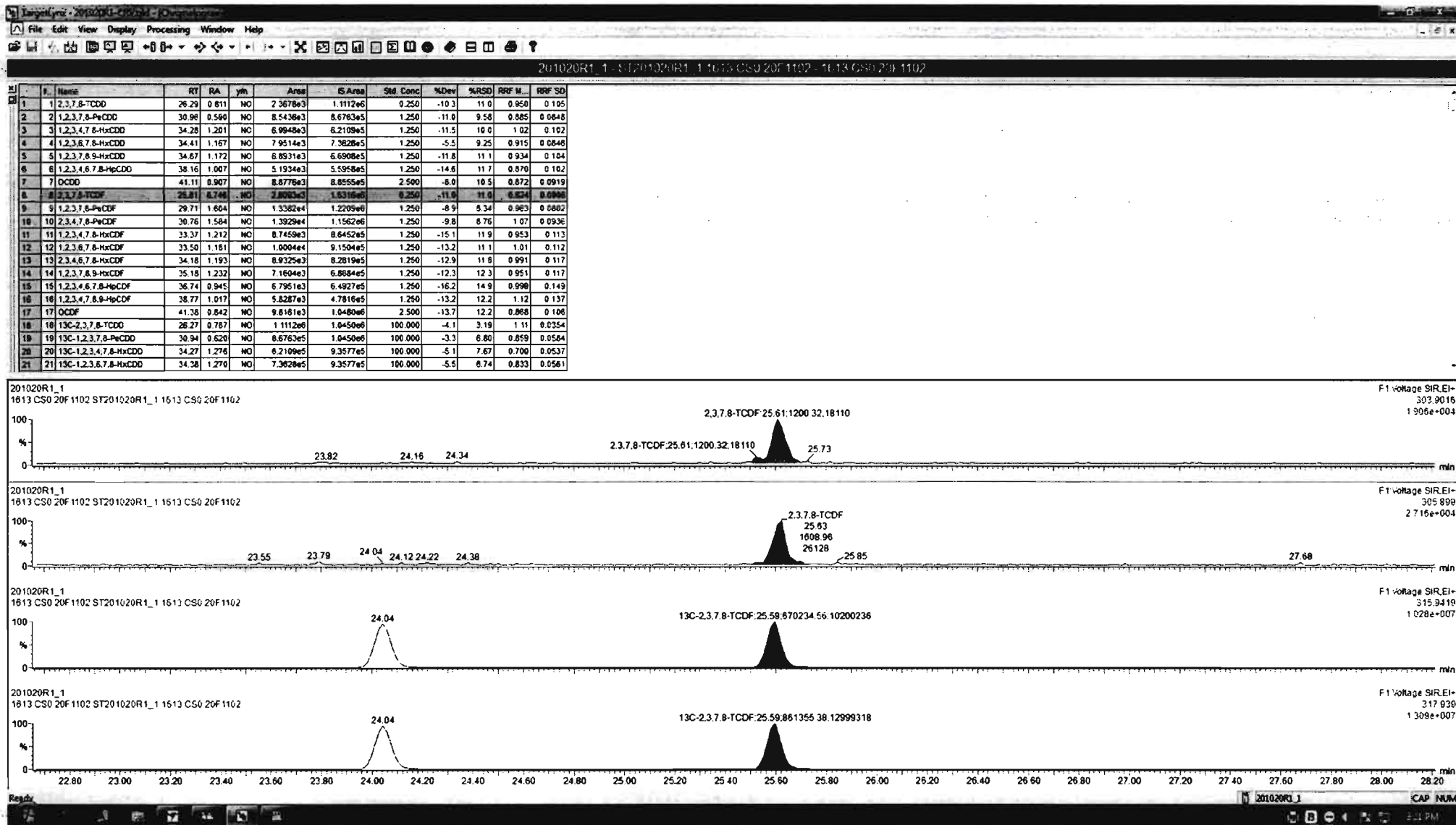
201020R1_1



DPE1

201020R1_1





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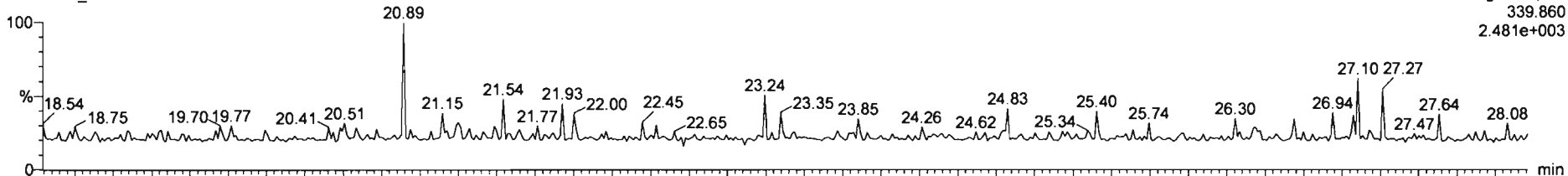
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_1, Date: 20-Oct-2020, Time: 09:17:10, ID: ST201020R1_1 1613 CS0 20F1102, Description: 1613 CS0 20F1102

1st Func. Penta-Furans

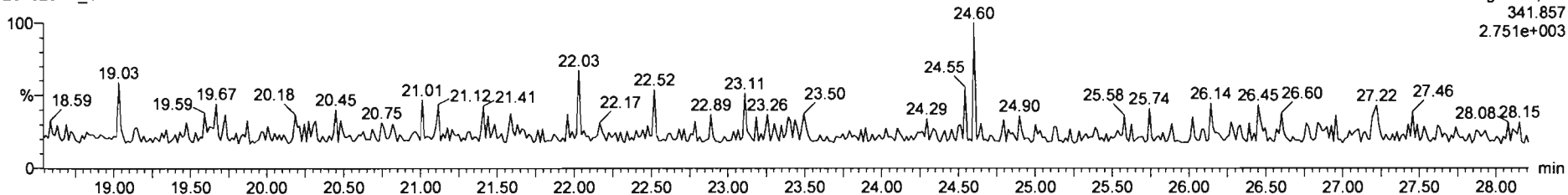
201020R1_1

F1:Voltage SIR,EI+
339.860
2.481e+003



201020R1_1

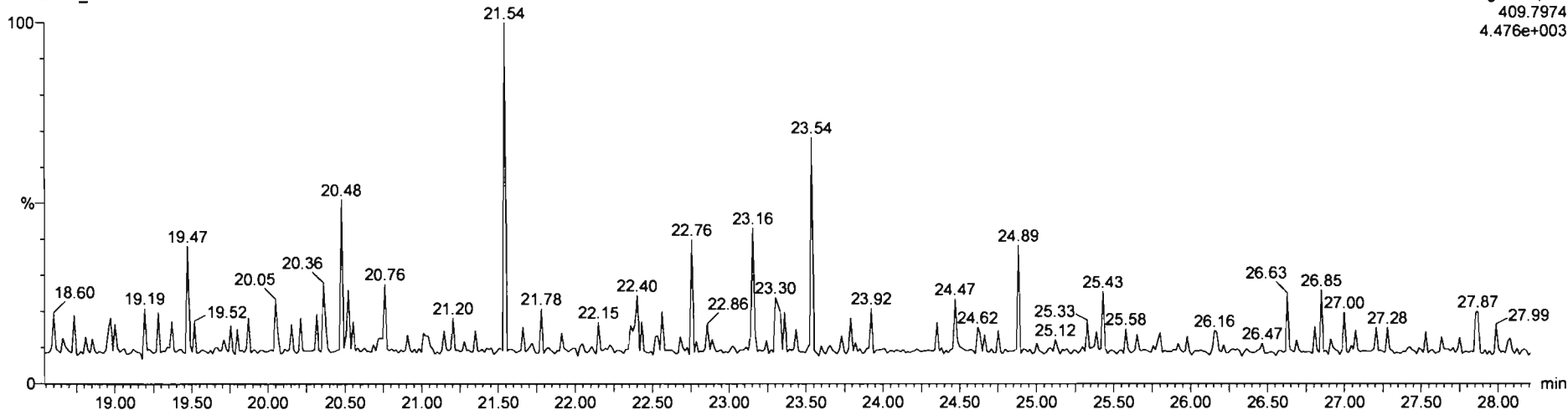
F1:Voltage SIR,EI+
341.857
2.751e+003



DPE6

201020R1_1

F1:Voltage SIR,EI+
409.7974
4.476e+003



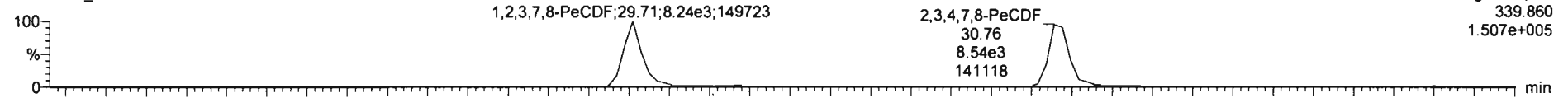
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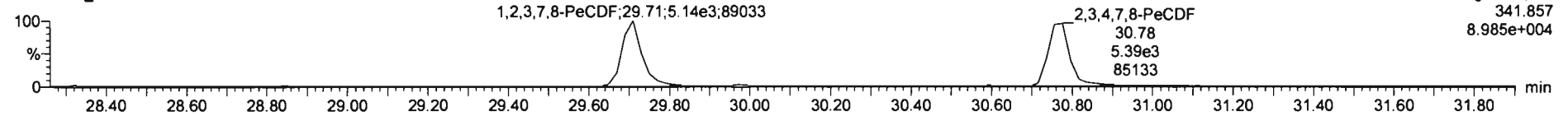
1,2,3,7,8-PeCDF

201020R1_1



F2: Voltage SIR, EI+
339.860
1.507e+005

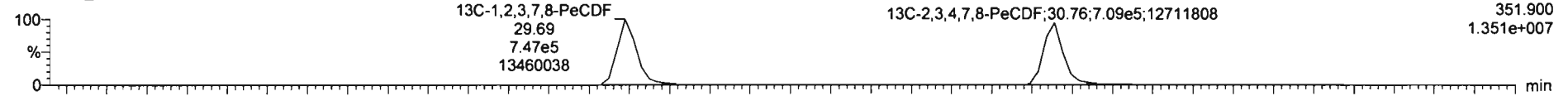
201020R1_1



F2: Voltage SIR, EI+
341.857
8.985e+004

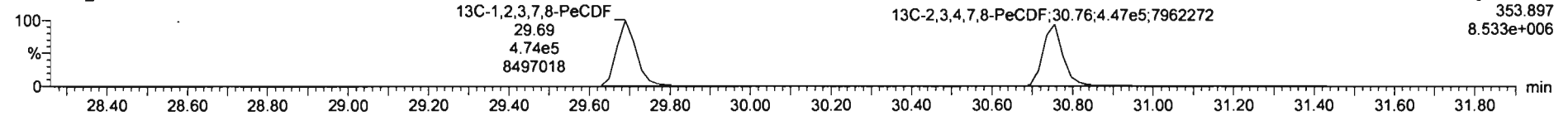
13C-1,2,3,7,8-PeCDF

201020R1_1



F2: Voltage SIR, EI+
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1.351e+007

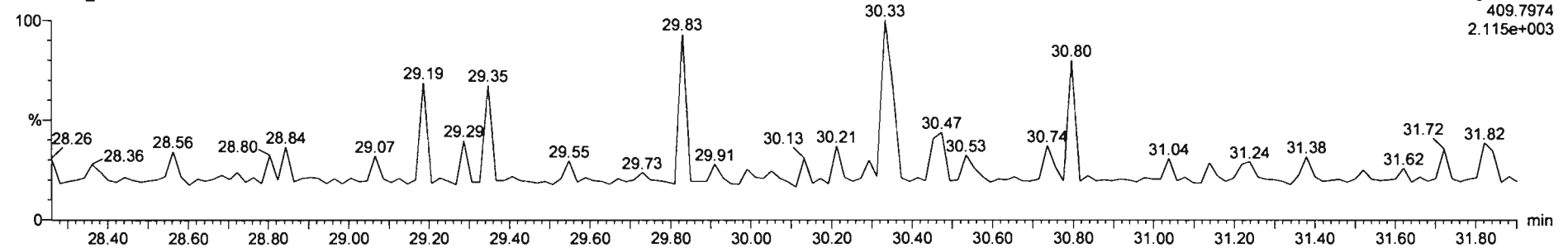
201020R1_1



F2: Voltage SIR, EI+
353.897
8.533e+006

DPE2

201020R1_1



F2: Voltage SIR, EI+
409.7974
2.115e+003

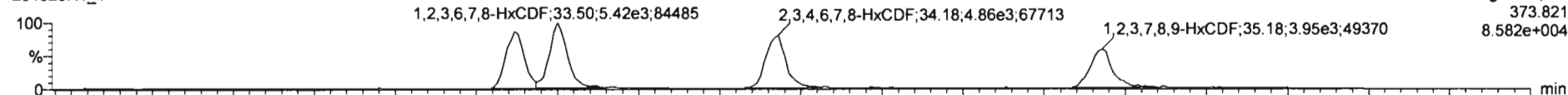
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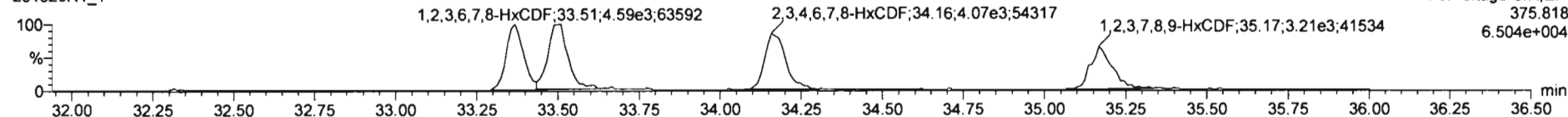
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1,2,3,4,7,8-HxCDF

201020R1_1

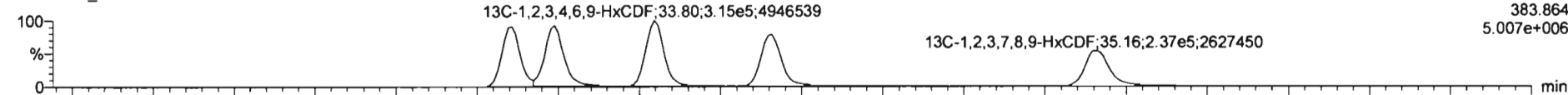


201020R1_1

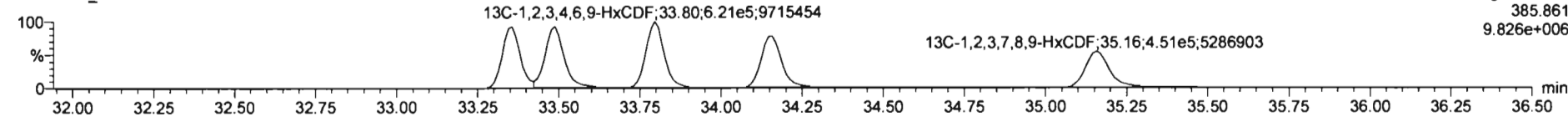


13C-1,2,3,4,7,8-HxCDF

201020R1_1

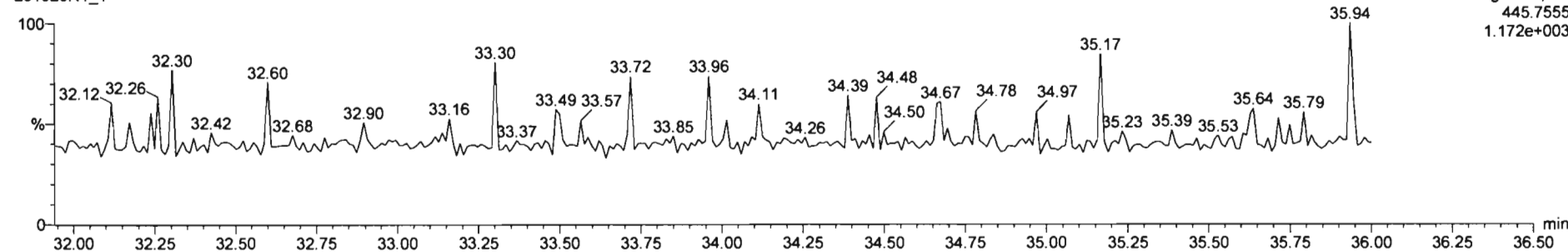


201020R1_1



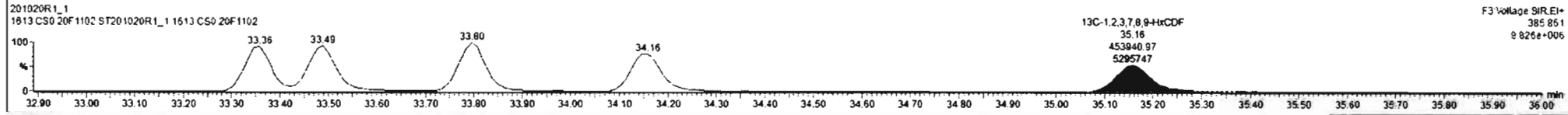
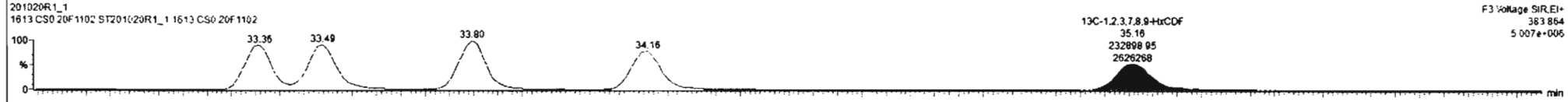
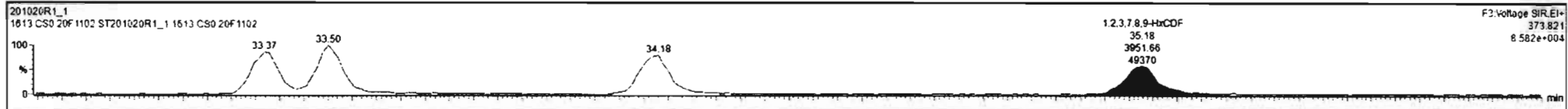
DPE3

201020R1_1



201020R1_1 - ST201020R1_1 1613 CS0 20F 1102 - 1613 CS0 20F 1102

#	Name	RT	RA	Yth	Area	IS Area	Std. Conc.	%Dev.	%RSD	RFM M.	RFM SD
1	1,2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5436e3	8.6783e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	6.9648e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3828e5	1.250	-5.5	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8931e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.8	11.7	0.870	0.102
7	OCDD	41.11	0.907	NO	8.8778e3	8.8559e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.81	0.746	NO	2.8090e3	1.5318e6	0.250	-11.0	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2205e6	1.250	-8.9	8.34	0.983	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3929e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.181	NO	1.0094e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.9325e3	8.2819e5	1.250	-12.9	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1804e3	8.8884e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.017	NO	5.8287e3	4.7816e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8161e3	1.0480e6	2.500	-13.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e3	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.278	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.278	NO	7.3628e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0581

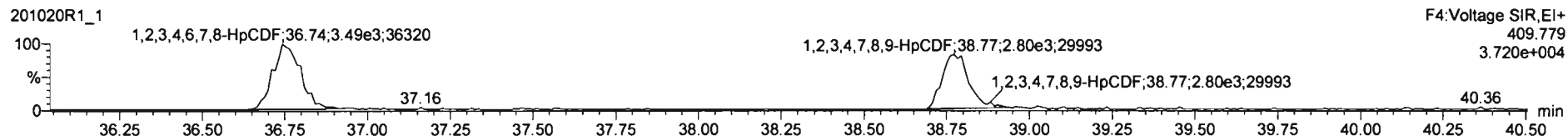
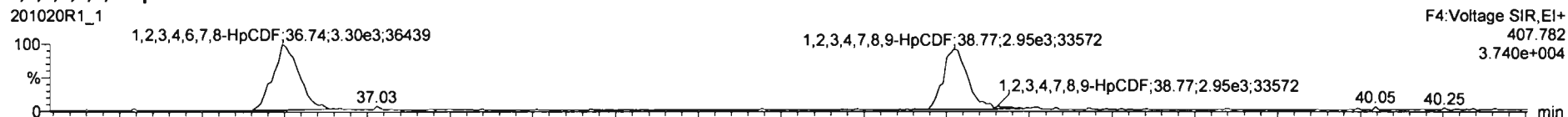


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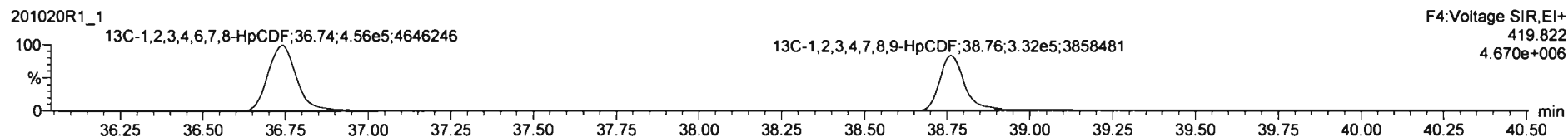
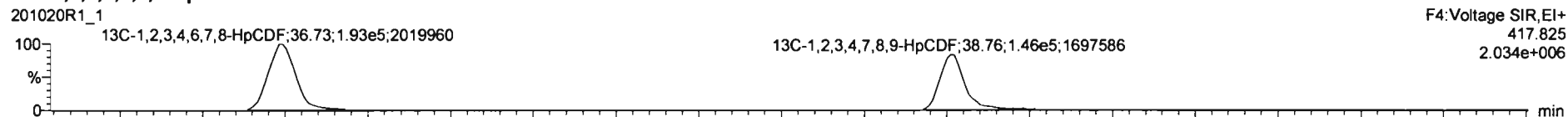
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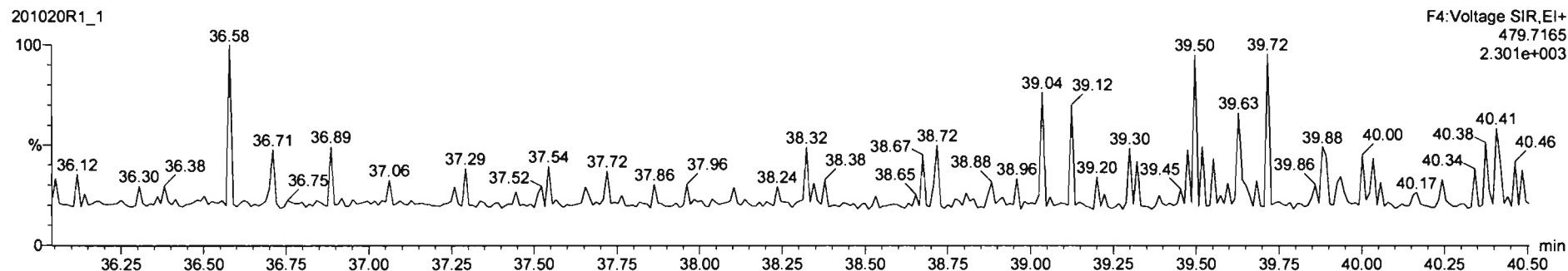
1,2,3,4,6,7,8-HpCDF



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

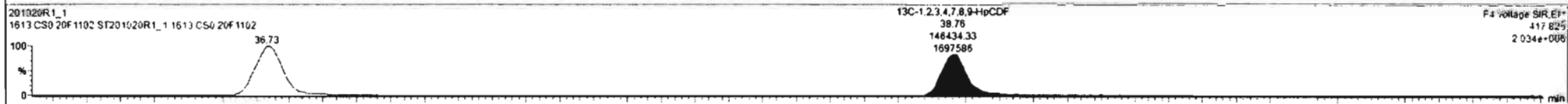
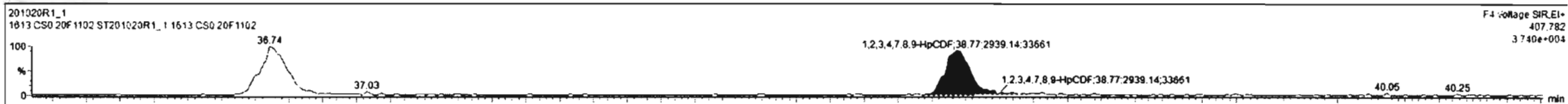


DPE4



201020R1_1 - ST201020R1_1 1613 CS0 20F 1102 - 1613 CS0 20F 1102

#	Name	RT	RA	Yth	Area	IS Area	Std. Conc	NDev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.811	NO	2.3678e3	1.1112e6	0.250	-10.3	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.590	NO	8.5436e3	8.6763e5	1.250	-11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.201	NO	8.9948e3	6.2109e5	1.250	-11.5	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.167	NO	7.9514e3	7.3828e5	1.250	-5.5	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.67	1.172	NO	6.8531e3	6.6908e5	1.250	-11.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.007	NO	5.1934e3	5.5958e5	1.250	-14.8	11.7	0.970	0.102
7	OCDD	41.11	0.907	NO	8.6778e3	8.8555e5	2.500	-8.0	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	2.6093e3	1.5316e6	0.250	-11.0	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.604	NO	1.3382e4	1.2209e6	1.250	-8.9	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.584	NO	1.3929e4	1.1562e6	1.250	-9.8	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.212	NO	8.7459e3	8.6452e5	1.250	-15.1	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.181	NO	1.0004e4	9.1504e5	1.250	-13.2	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.193	NO	8.9325e3	8.2819e5	1.250	-12.9	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.232	NO	7.1604e3	6.8684e5	1.250	-12.3	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.945	NO	6.7951e3	6.4927e5	1.250	-16.2	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.817	NO	5.8077e3	4.7818e5	1.250	-13.2	12.2	1.12	0.137
17	OCDF	41.38	0.842	NO	9.8181e3	1.0480e6	2.500	-13.7	12.2	0.866	0.106
18	13C-2,3,7,8-TCDD	26.27	0.787	NO	1.1112e6	1.0450e6	100.000	-4.1	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.620	NO	8.6763e5	1.0450e6	100.000	-3.3	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.276	NO	6.2109e5	9.3577e5	100.000	-5.1	7.67	0.706	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.270	NO	7.3828e5	9.3577e5	100.000	-5.5	6.74	0.833	0.0561

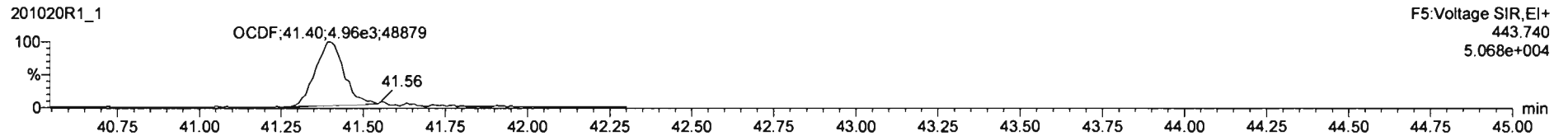
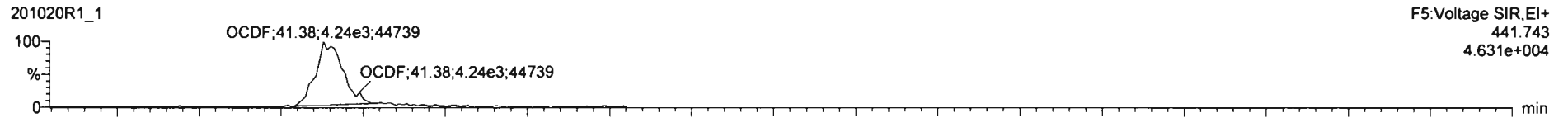


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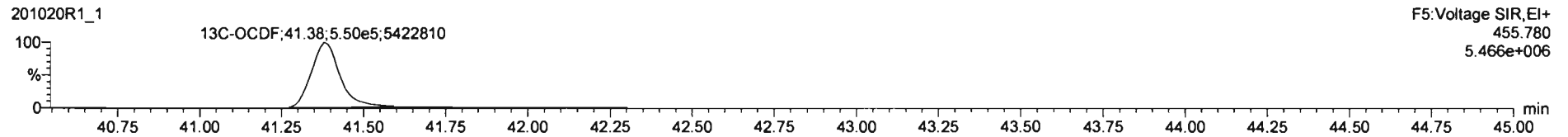
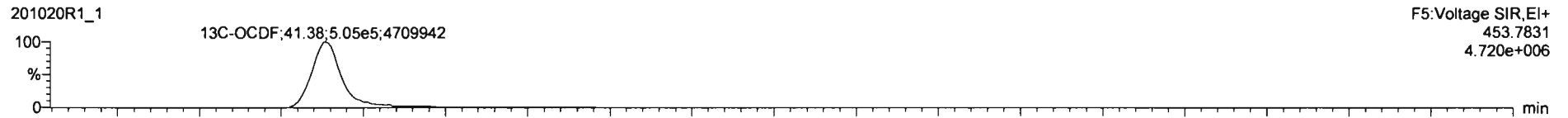
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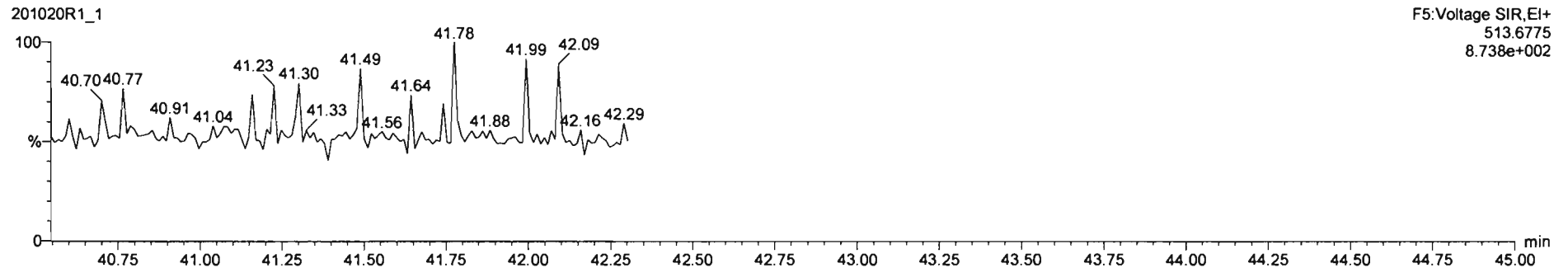
OCDF

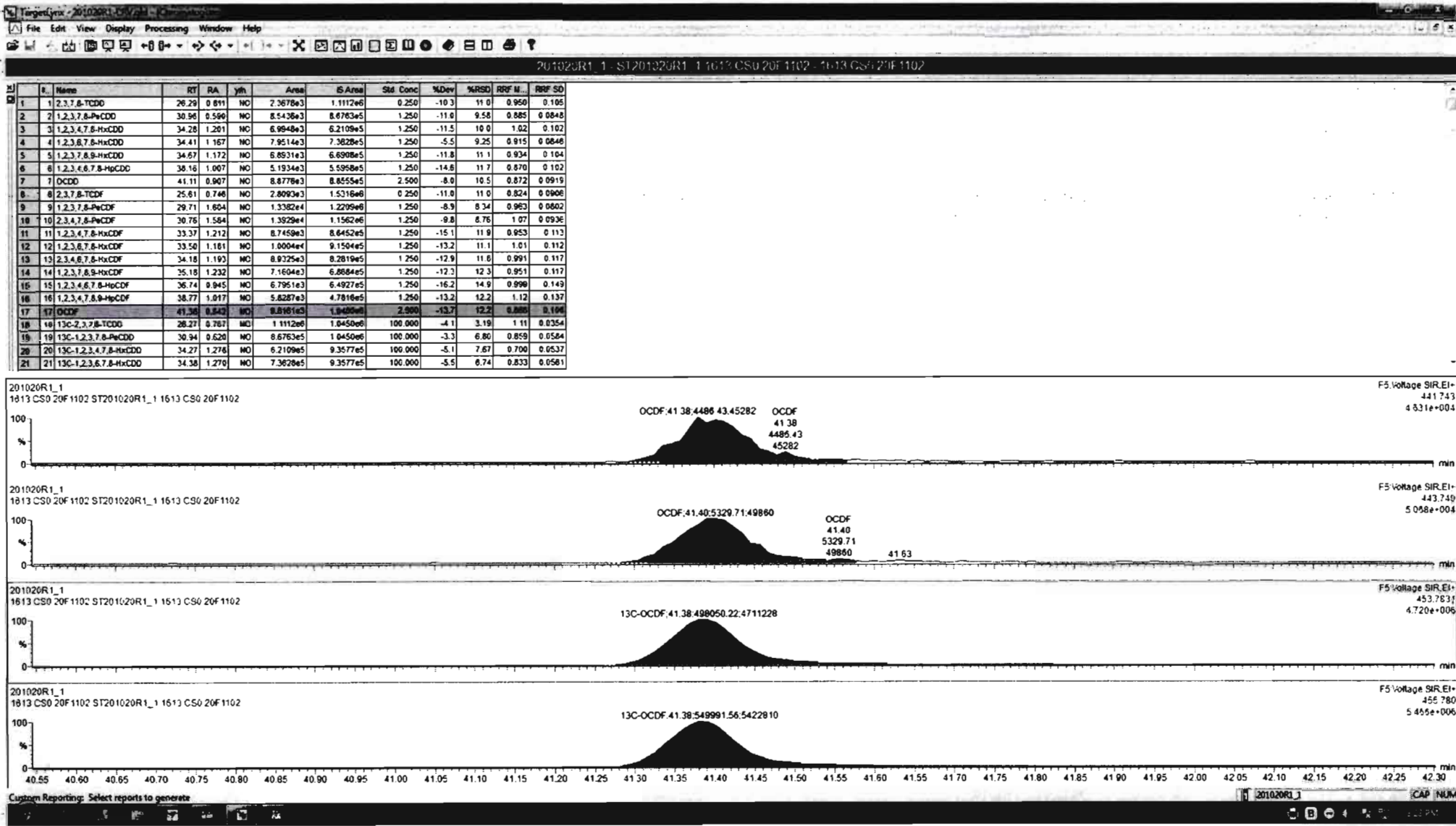


13C-OCDF



DPE5

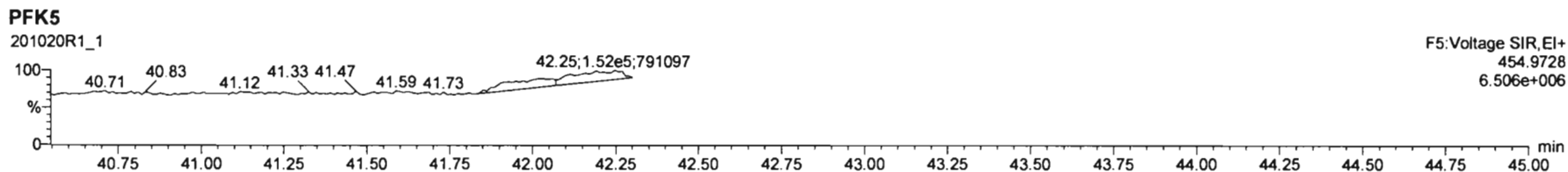
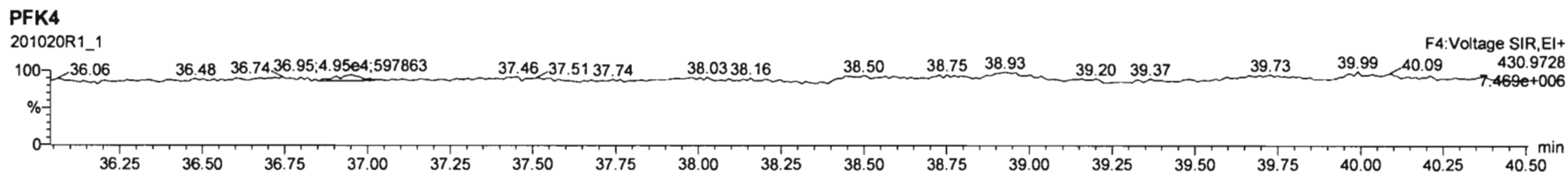
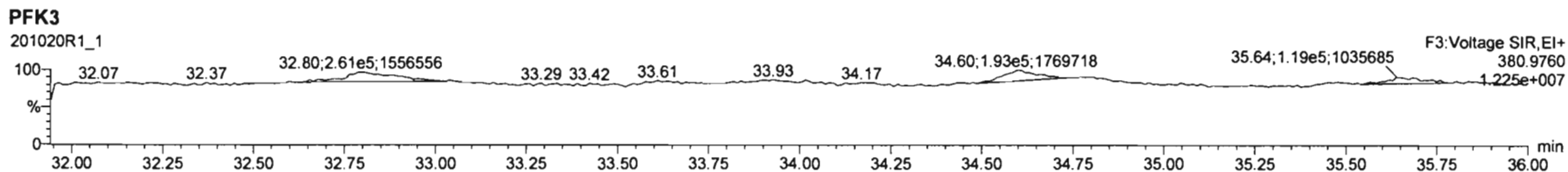
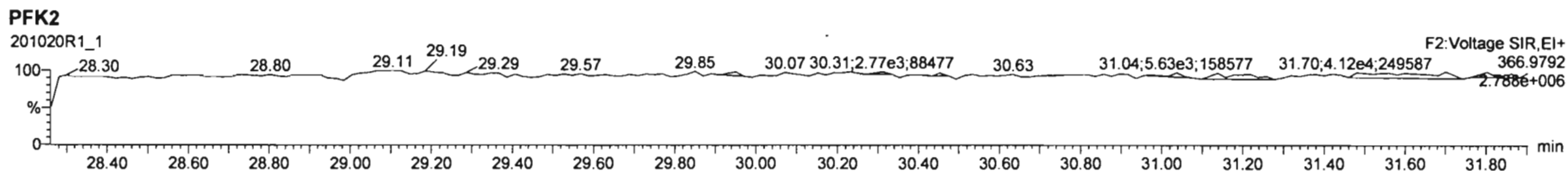
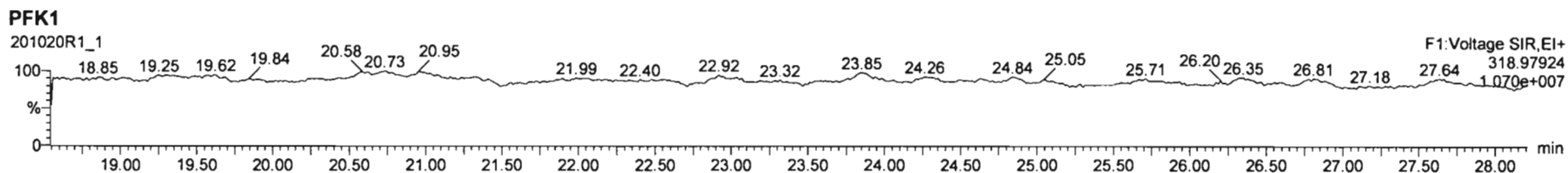




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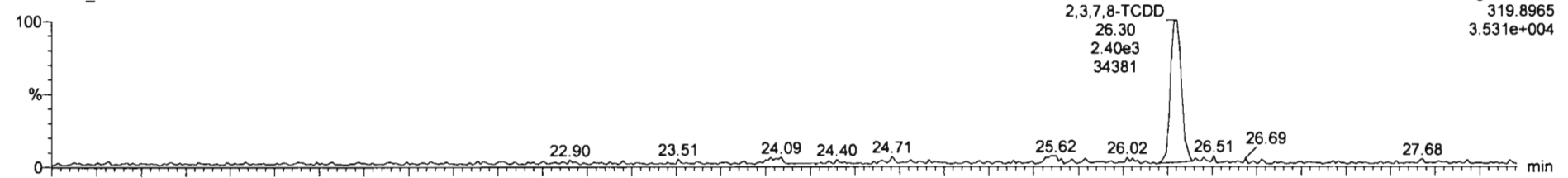
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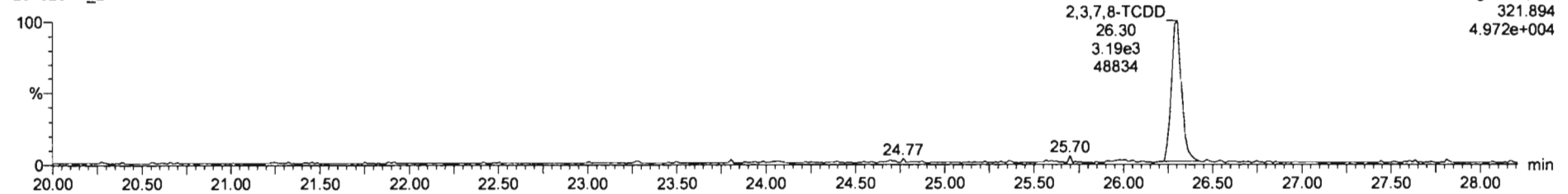
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2,3,7,8-TCDD

201020R1_2

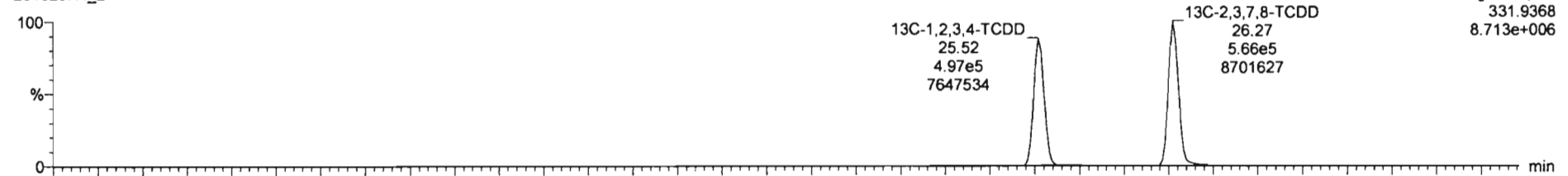


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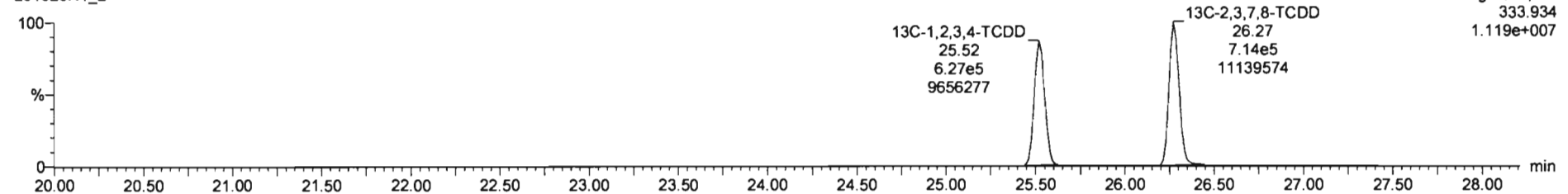


13C-2,3,7,8-TCDD

201020R1_2



201020R1_2



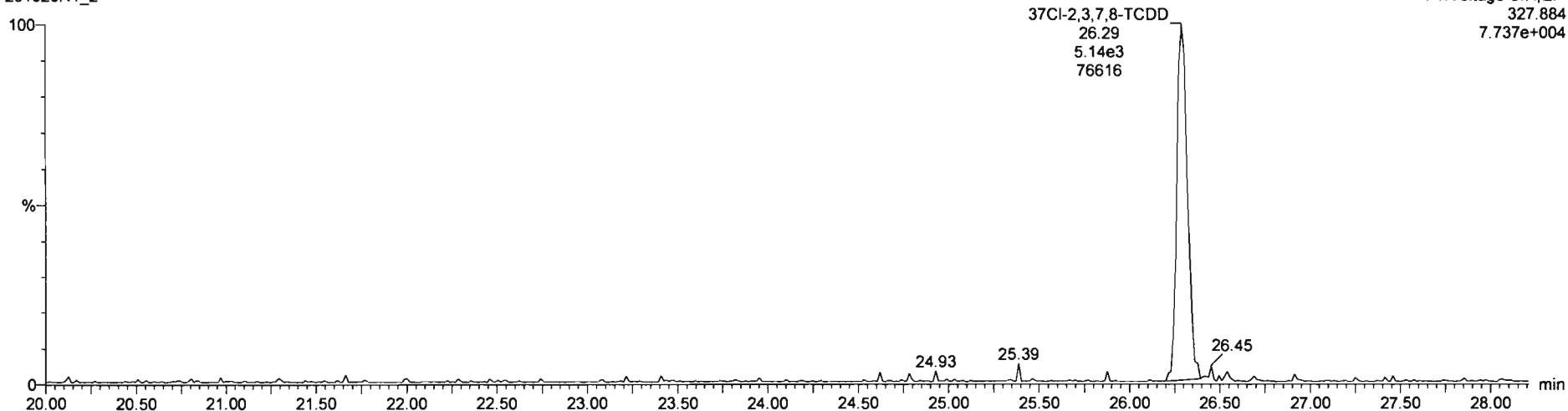
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37Cl-2,3,7,8-TCDD

201020R1_2

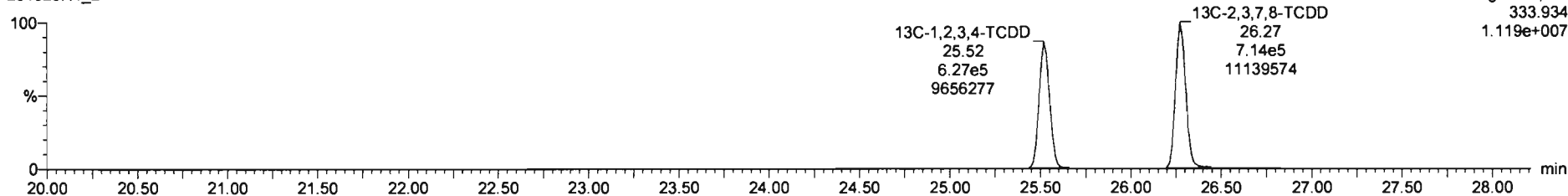


13C-1,2,3,4-TCDD

201020R1_2



201020R1_2



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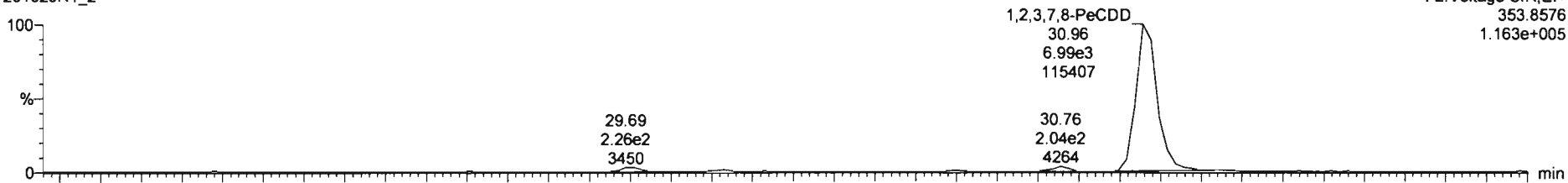
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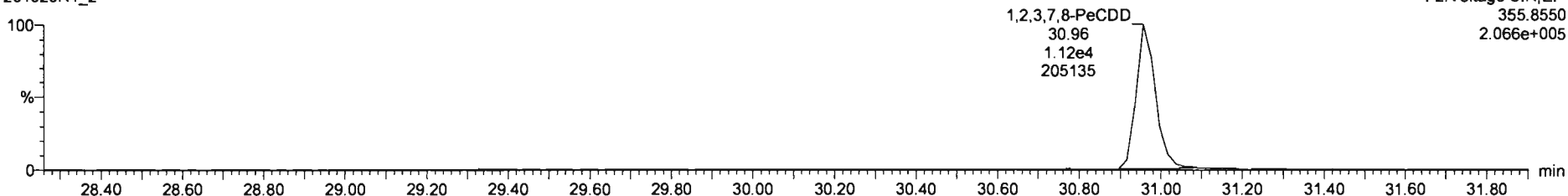
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1,2,3,7,8-PeCDD

201020R1_2

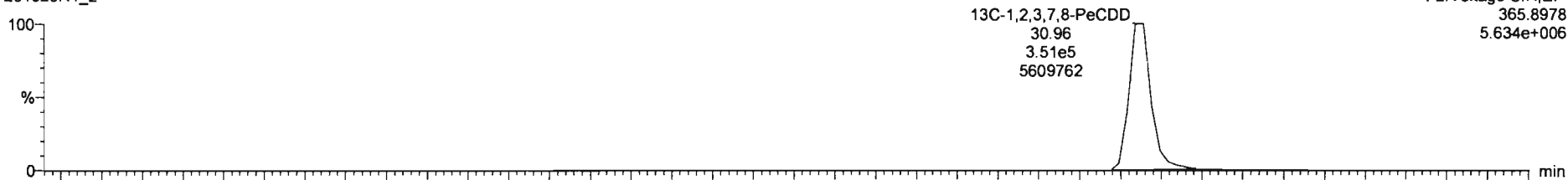


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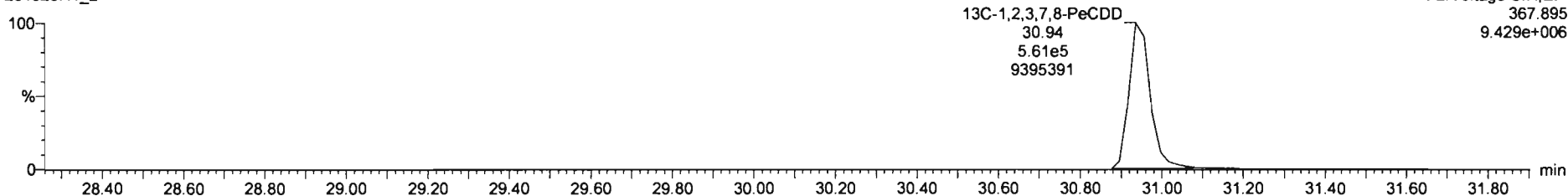


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201020R1_2



201020R1_2



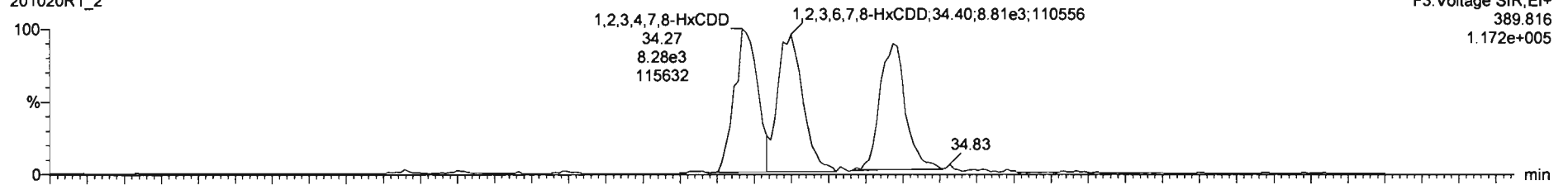
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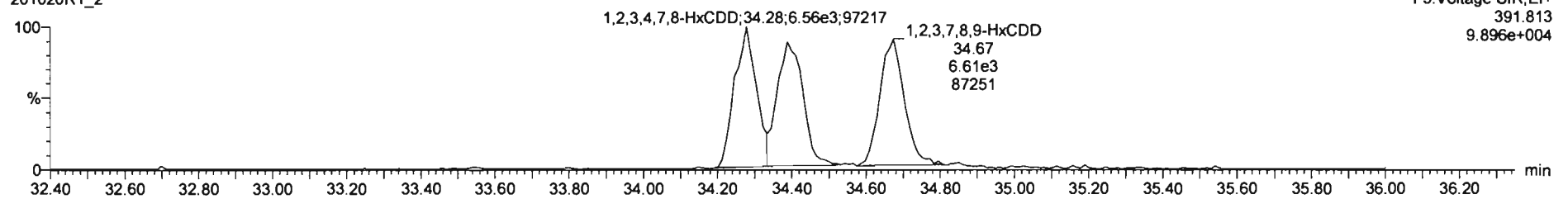
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1,2,3,4,7,8-HxCDD

201020R1_2

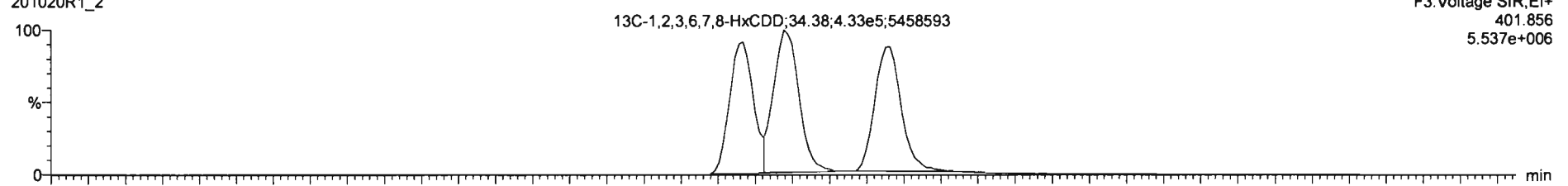


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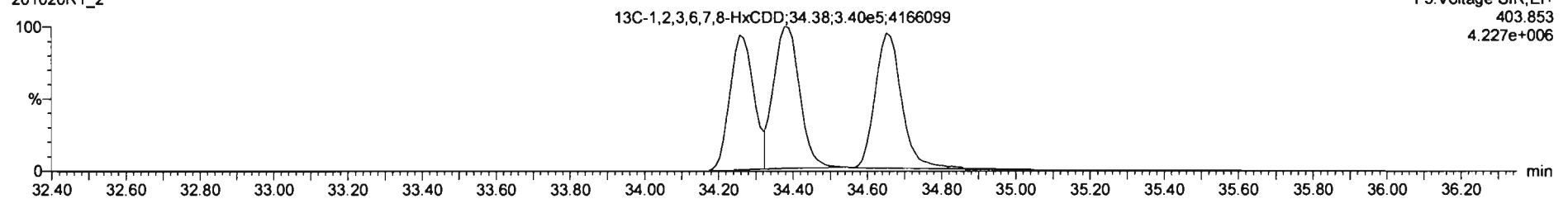


13C-1,2,3,4,7,8-HxCDD

201020R1_2



201020R1_2



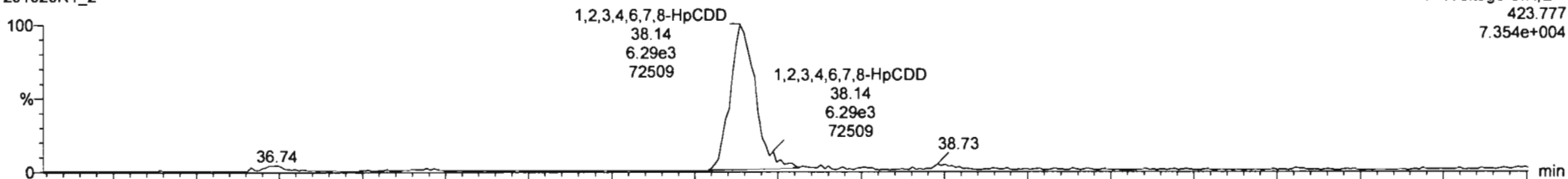
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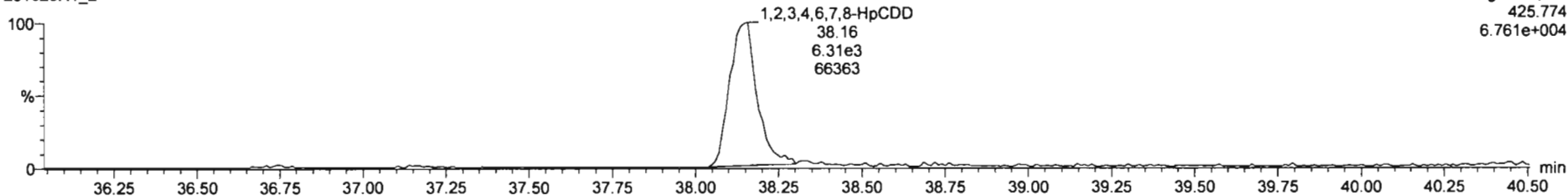
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1,2,3,4,6,7,8-HpCDD

201020R1_2

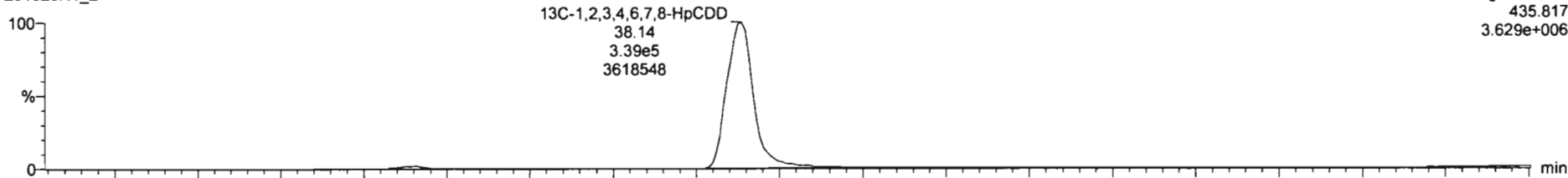


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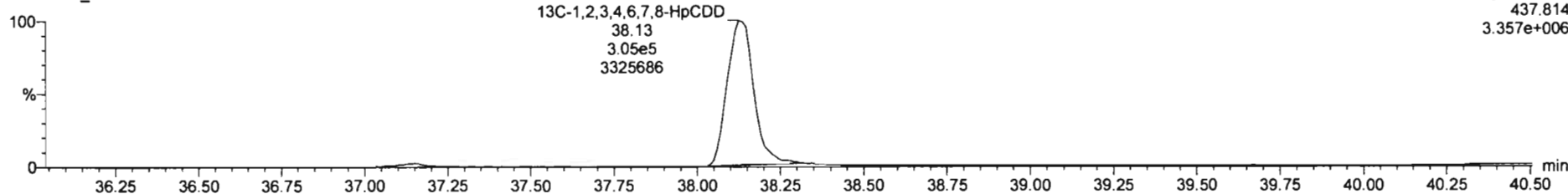


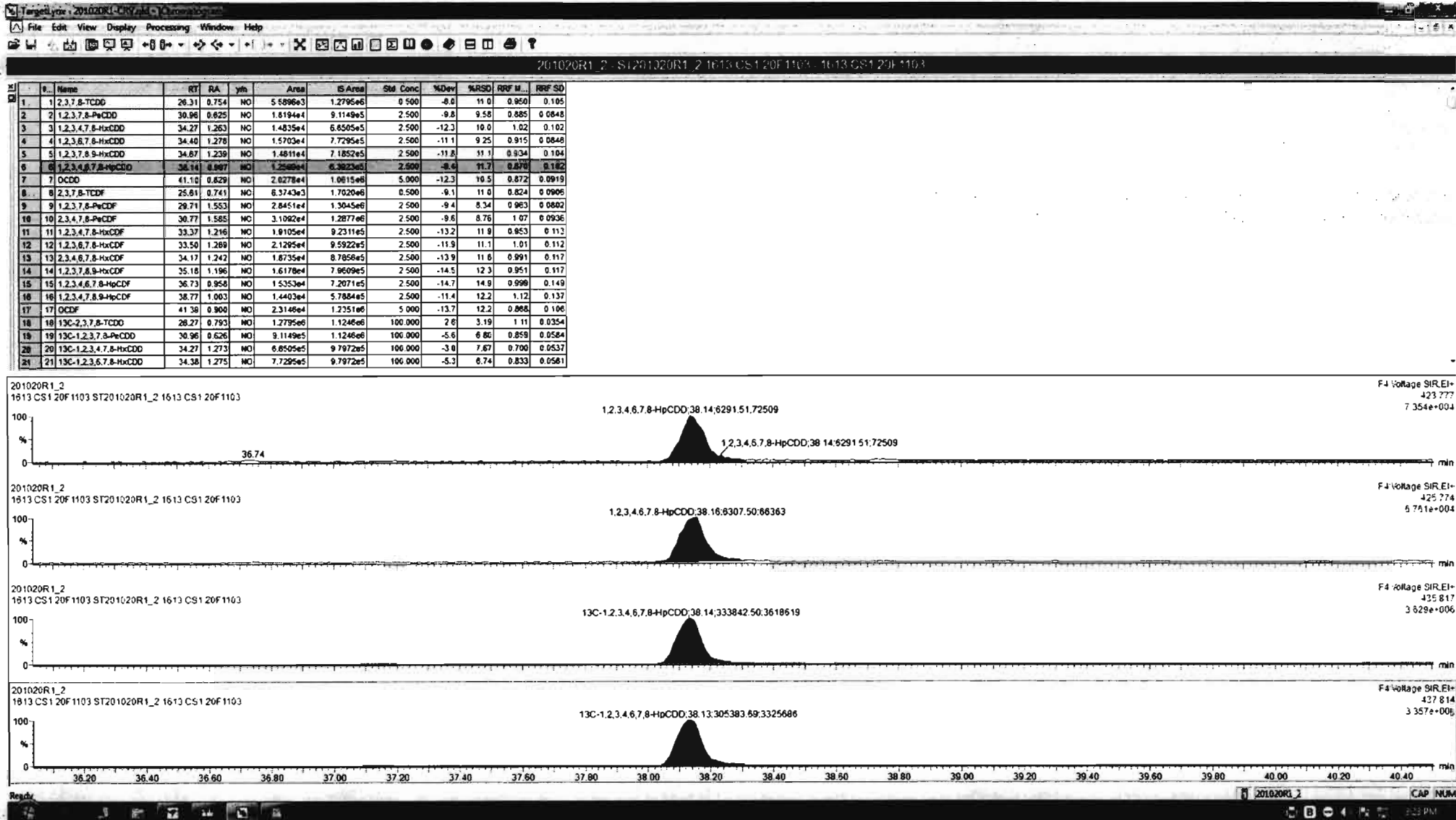
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201020R1_2



201020R1_2





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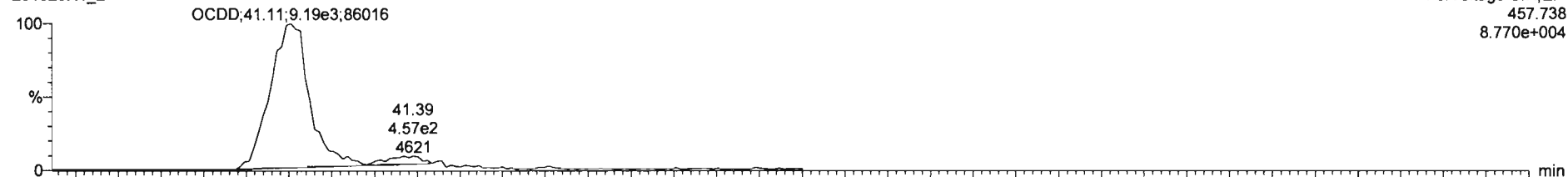
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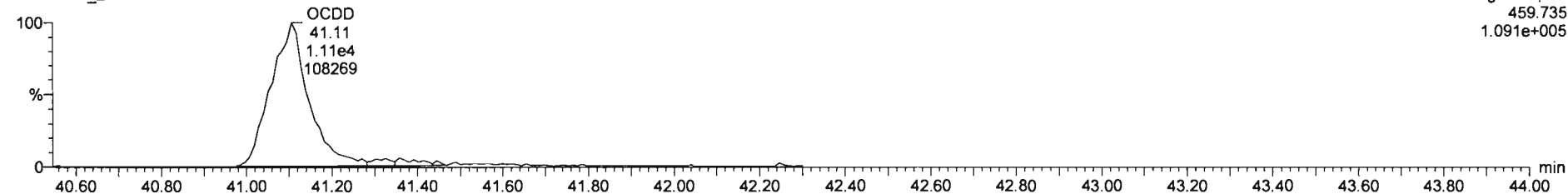
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OCDD

201020R1_2

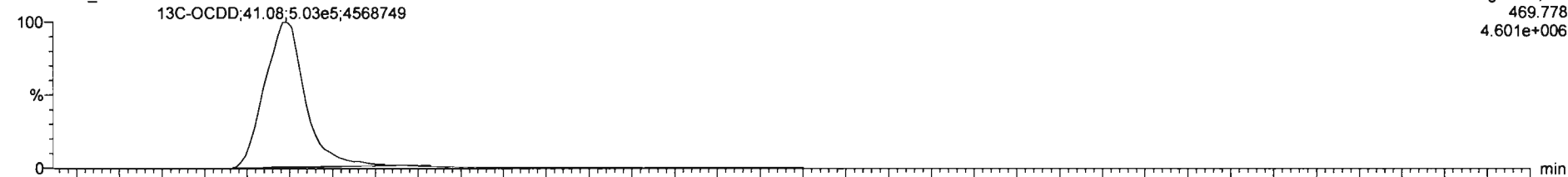


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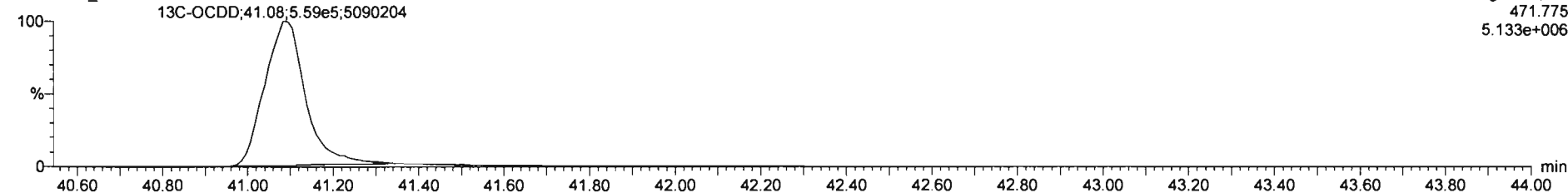


13C-OCDD

201020R1_2



201020R1_2



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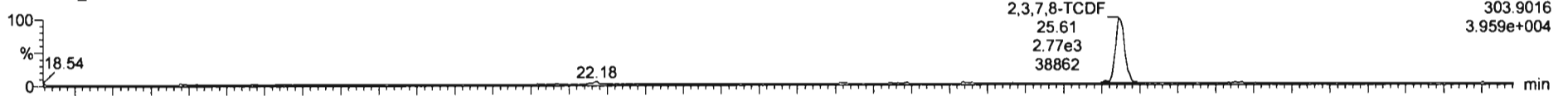
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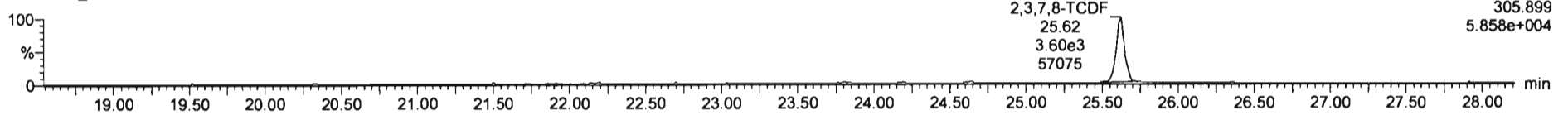
2,3,7,8-TCDF

201020R1_2



F1: Voltage SIR, EI+
303.9016
3.959e+004

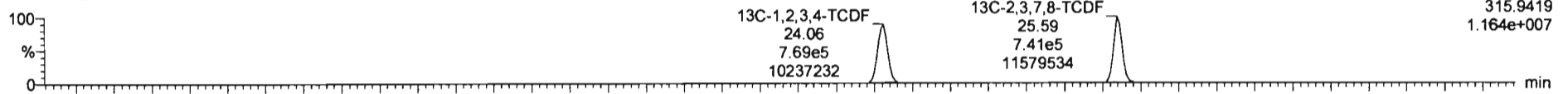
201020R1_2



F1: Voltage SIR, EI+
305.899
5.858e+004

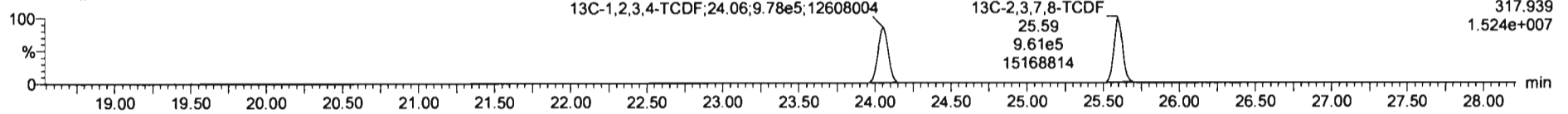
13C-2,3,7,8-TCDF

201020R1_2



F1: Voltage SIR, EI+
315.9419
1.164e+007

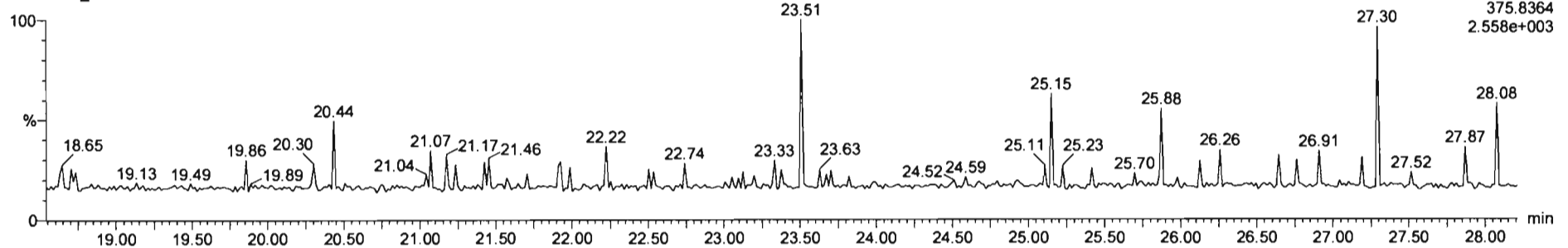
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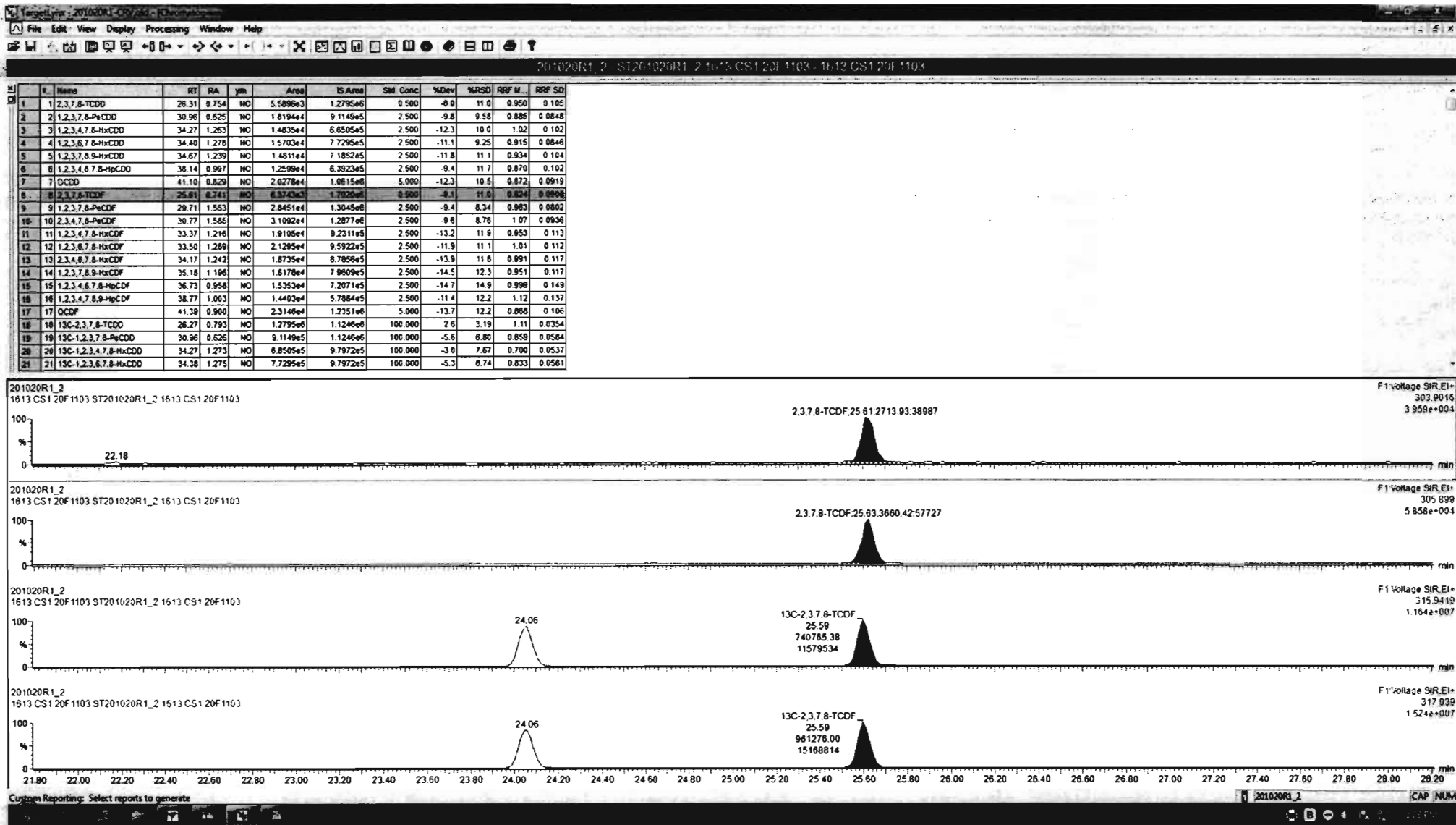
F1: Voltage SIR, EI+
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1.524e+007

DPE1

201020R1_2



F1: Voltage SIR, EI+
375.8364
2.558e+003



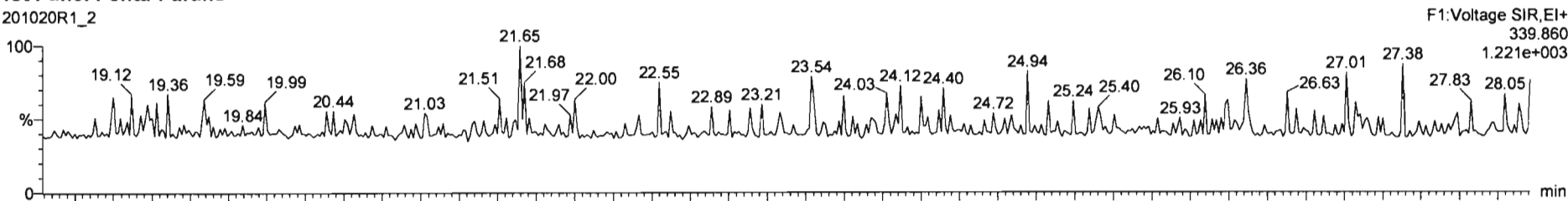
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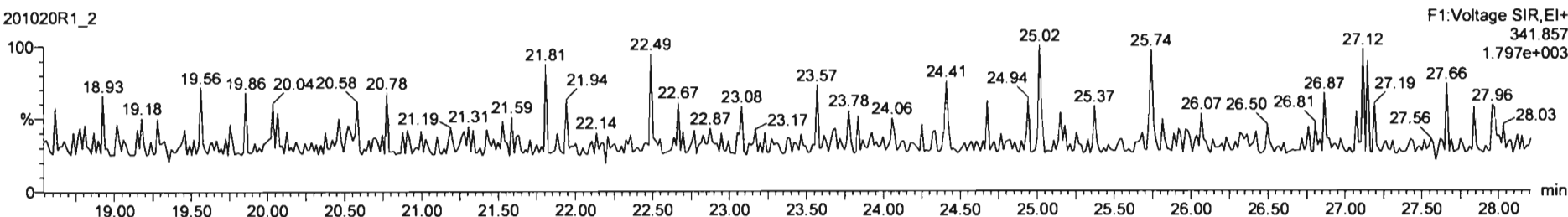
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1st Func. Penta-Furans

201020R1_2

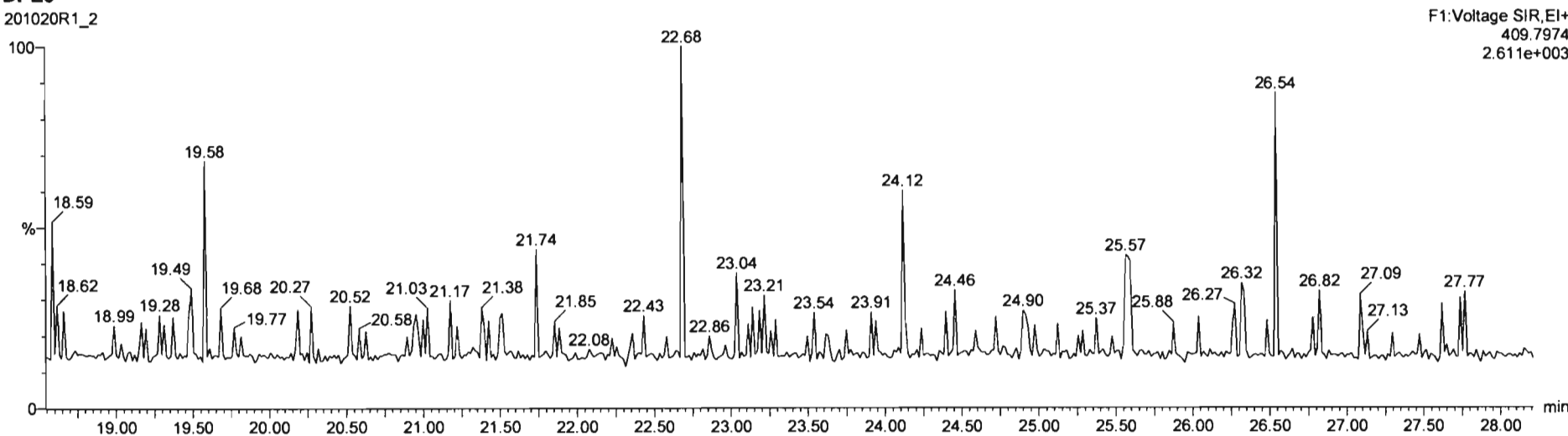


201020R1_2



DPE6

201020R1_2



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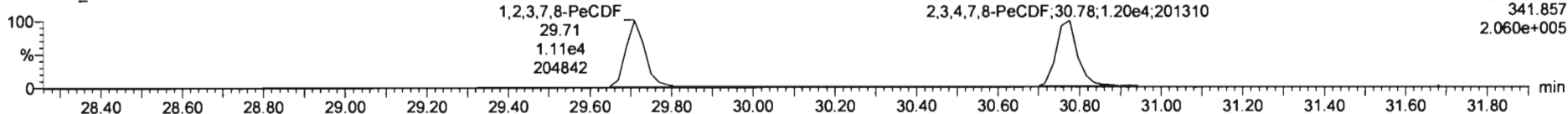
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1,2,3,7,8-PeCDF

201020R1_2

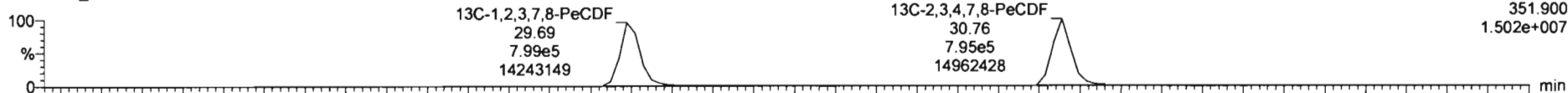


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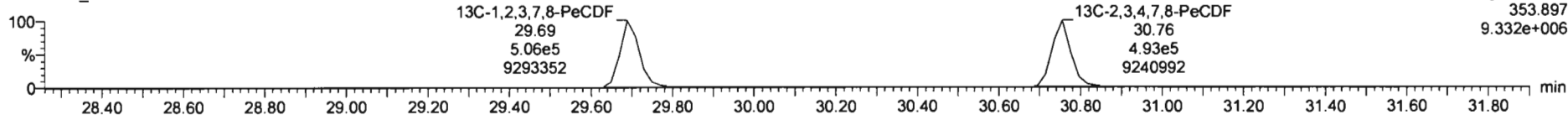


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201020R1_2

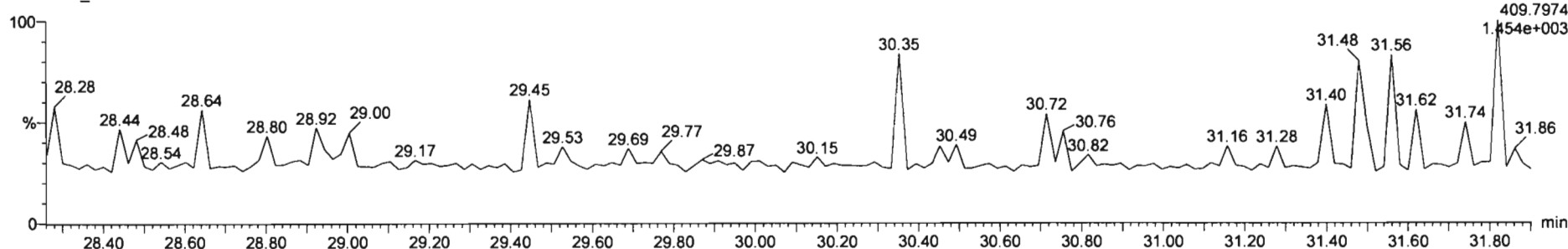


201020R1_2



DPE2

201020R1_2



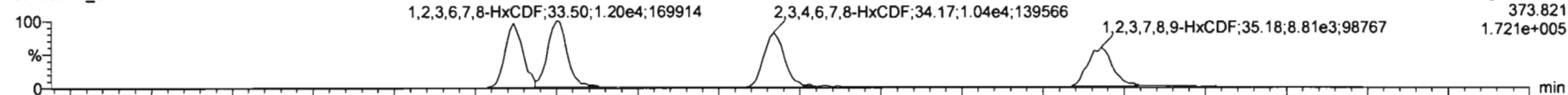
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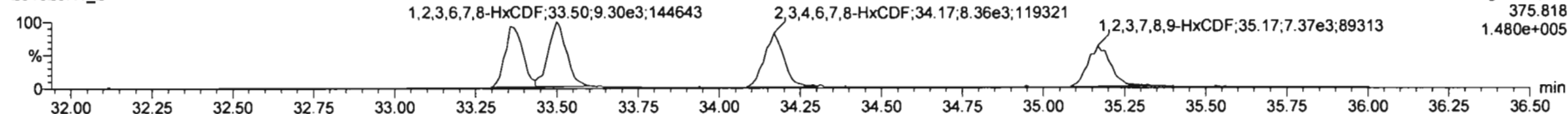
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1,2,3,4,7,8-HxCDF

201020R1_2

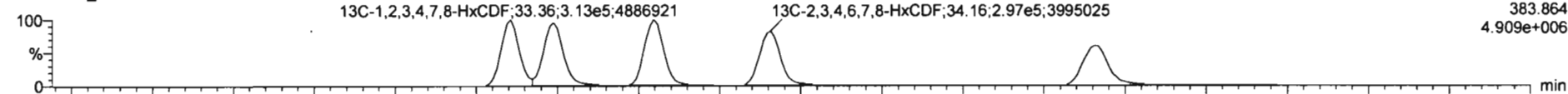


201020R1_2

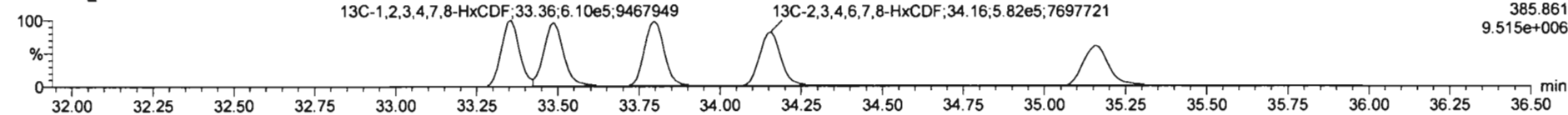


13C-1,2,3,4,7,8-HxCDF

201020R1_2

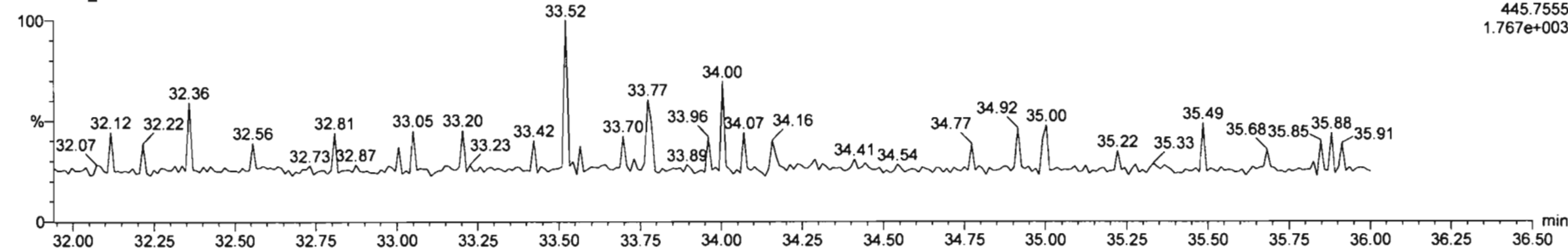


201020R1_2



DPE3

201020R1_2



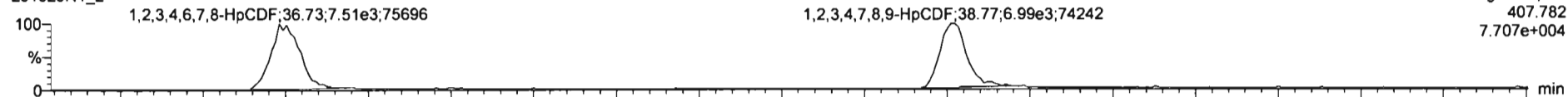
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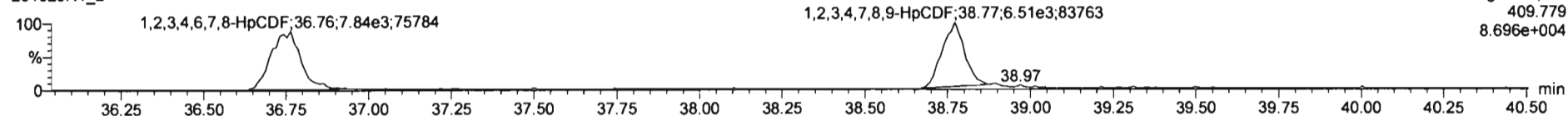
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1,2,3,4,6,7,8-HpCDF

201020R1_2

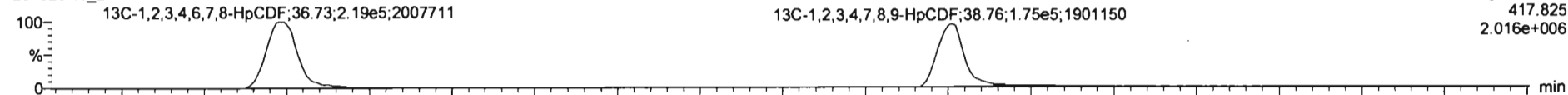


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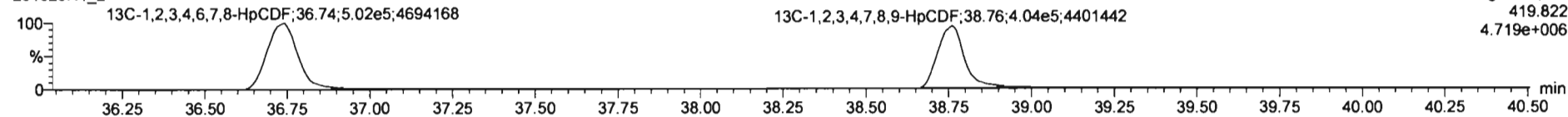


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201020R1_2

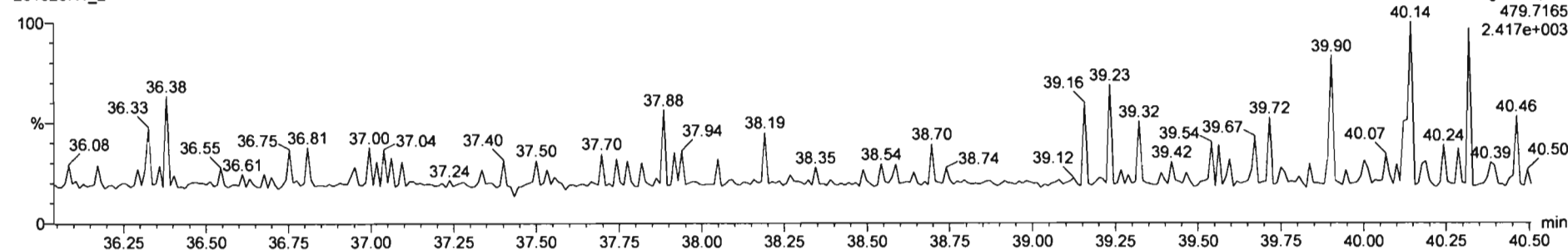


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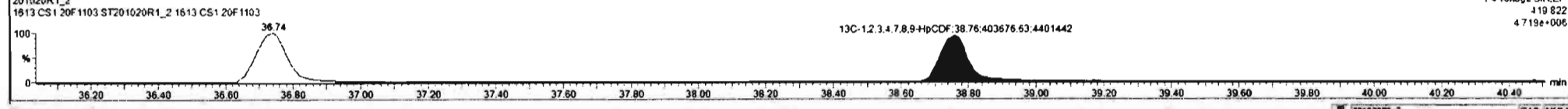
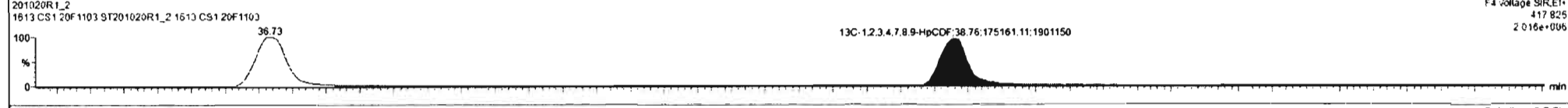
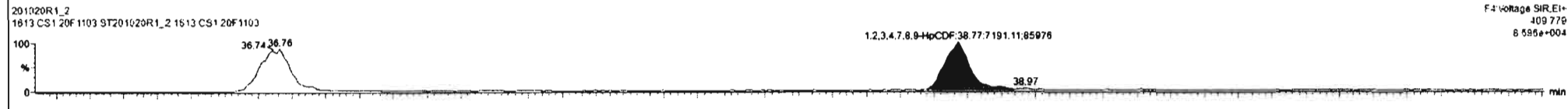
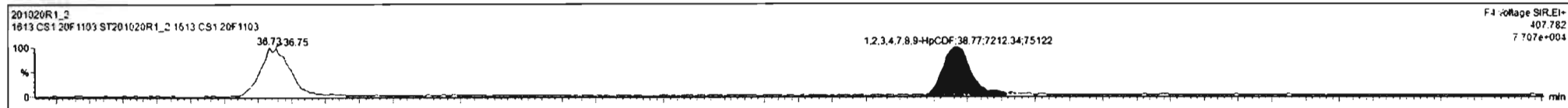


DPE4

201020R1_2



#	Rt	Name	RT	RA	Yn	Area	IS Area	Std Conc	%Dev	%RSD	RRF N...	RRF SD
1	26.31	2,3,7,8-TCDD	26.31	0.754	NO	5.5896e3	1.2795e6	0.500	-8.0	11.0	0.950	0.105
2	30.96	1,2,3,7,8-PeCDD	30.96	0.625	NO	1.8194e4	9.1149e5	2.500	-9.8	9.58	0.885	0.0848
3	34.27	1,2,3,4,7,8-HxCDD	34.27	1.263	NO	1.4835e4	6.6505e5	2.500	-12.3	10.0	1.02	0.102
4	34.40	1,2,3,6,7,8-HxCDD	34.40	1.278	NO	1.5703e4	7.7295e5	2.500	-11.1	9.25	0.915	0.0846
5	34.67	1,2,3,7,8,9-HxCDD	34.67	1.239	NO	1.4811e4	7.1852e5	2.500	-11.8	11.1	0.934	0.104
6	38.14	1,2,3,4,6,7,8-HpCDD	38.14	0.997	NO	1.2599e4	6.3923e5	2.500	9.4	11.7	0.870	0.102
7	41.10	OCDD	41.10	0.829	NO	2.0278e4	1.0615e6	5.000	-12.3	10.5	0.872	0.0919
8	25.81	2,3,7,8-TCDF	25.81	0.741	NO	8.3743e3	1.7020e6	0.500	-9.1	11.0	0.824	0.0906
9	29.71	1,2,3,7,8-PeCDF	29.71	1.553	NO	2.8451e4	1.3045e6	2.500	-9.4	8.34	0.963	0.0802
10	30.77	2,3,4,7,8-PeCDF	30.77	1.585	NO	3.1092e4	1.2877e6	2.500	-9.6	8.76	1.07	0.0936
11	33.37	1,2,3,4,7,8-HxCDF	33.37	1.216	NO	1.8105e4	9.2311e5	2.500	-13.2	11.9	0.853	0.113
12	33.50	1,2,3,6,7,8-HxCDF	33.50	1.289	NO	2.1295e4	9.5922e5	2.500	-11.9	11.1	1.01	0.112
13	34.17	2,3,4,6,7,8-HxCDF	34.17	1.242	NO	1.8735e4	8.7856e5	2.500	-13.9	11.6	0.991	0.117
14	35.18	1,2,3,7,8,9-HxCDF	35.18	1.196	NO	1.6178e4	7.9609e5	2.500	-14.5	12.3	0.951	0.117
15	36.73	1,2,3,4,6,7,8-HpCDF	36.73	0.958	NO	1.5353e4	7.2071e5	2.500	-14.7	14.9	0.990	0.149
16	38.77	1,2,3,4,7,8,9-HpCDF	38.77	1.903	NO	1.4402e4	5.7884e5	2.500	-11.4	12.2	1.12	0.137
17	41.38	OCDF	41.38	0.900	NO	2.3148e4	1.2351e6	5.000	-13.7	12.2	0.868	0.106
18	28.27	13C-2,3,7,8-TCDD	28.27	0.793	NO	1.2795e6	1.1246e6	100.000	2.6	3.19	1.11	0.0354
19	30.96	13C-1,2,3,7,8-PeCDD	30.96	0.626	NO	9.1149e5	1.1246e6	100.000	-5.6	6.80	0.859	0.0584
20	34.27	13C-1,2,3,4,7,8-HxCDD	34.27	1.273	NO	6.6505e5	9.7972e5	100.000	-3.0	7.67	0.700	0.0537
21	34.38	13C-1,2,3,6,7,8-HxCDD	34.38	1.275	NO	7.7295e5	9.7972e5	100.000	-5.3	6.74	0.833	0.0561

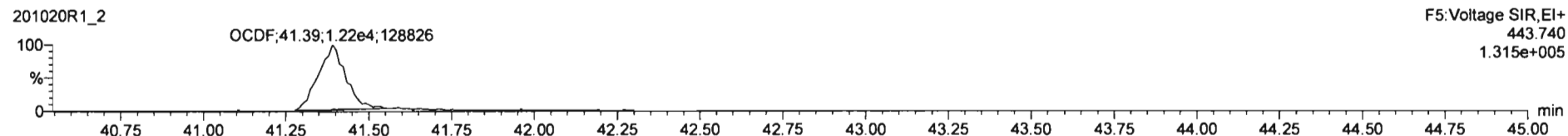
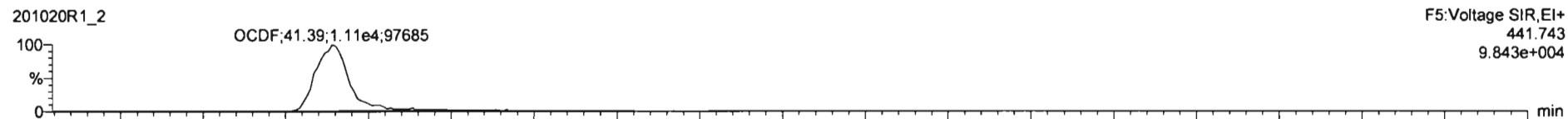


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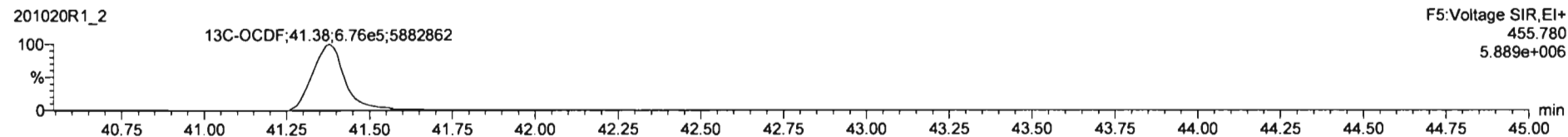
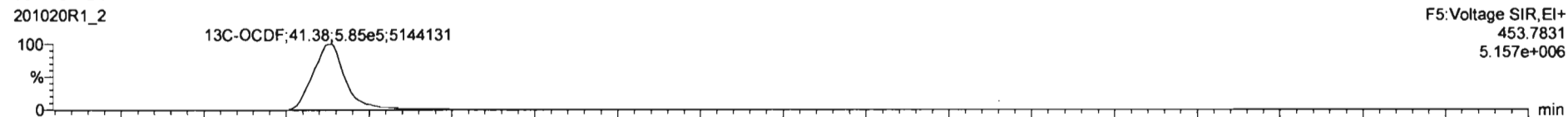
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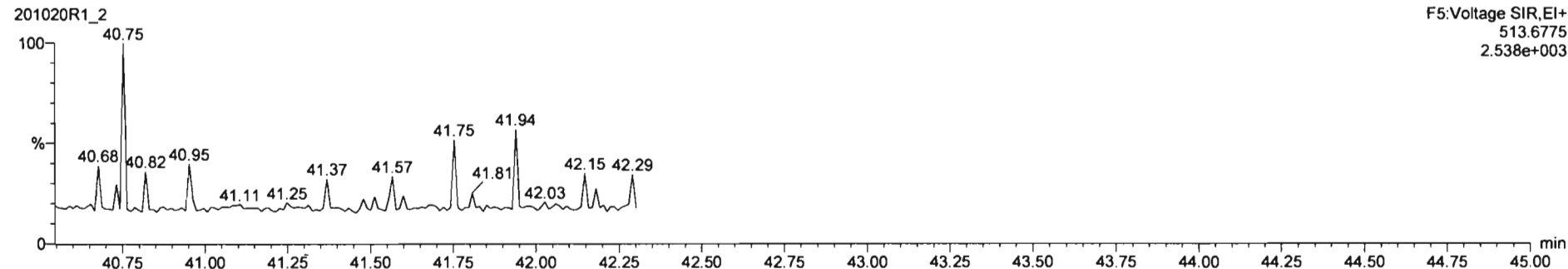
OCDF



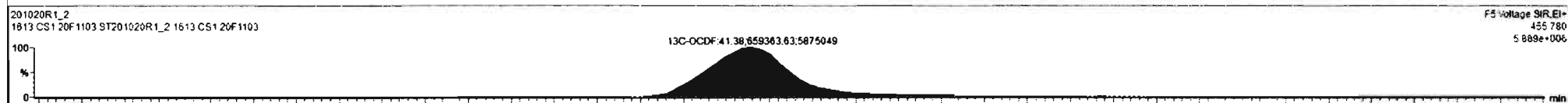
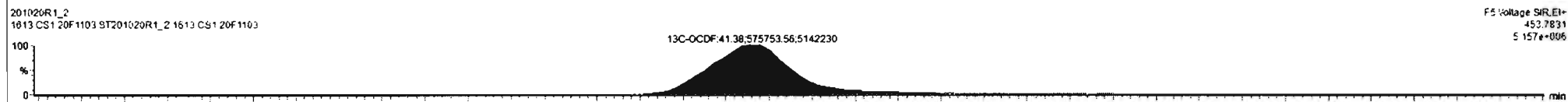
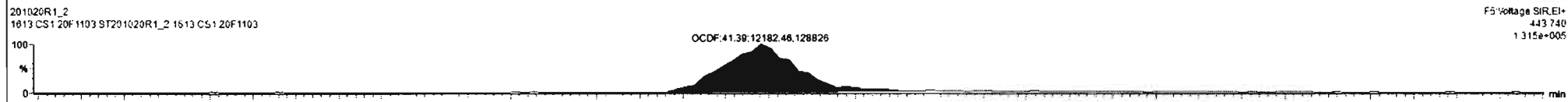
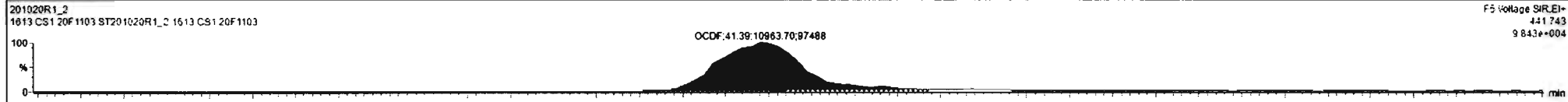
¹³C-OCDF



DPE5



#	P.	Name	RT	RA	ym	Area	S Area	Std. Conc.	%Dev	%RSD	RRF M...	RRF SD
1	1	2,3,7,8-TCDD	26.31	0.754	NO	5.5896e3	1.2795e6	0.500	-8.0	11.0	0.950	0.105
2	2	1,2,3,7,8-PeCDD	30.96	0.825	NO	1.8194e4	9.1149e5	2.500	-9.8	9.58	0.885	0.0848
3	3	1,2,3,4,7,8-HxCDD	34.27	1.263	NO	1.4835e4	6.6505e5	2.500	-12.3	10.0	1.02	0.102
4	4	1,2,3,6,7,8-HxCDD	34.40	1.278	NO	1.5703e4	7.7295e5	2.500	-11.1	9.25	0.915	0.0648
5	5	1,2,3,7,8,9-HxCDD	34.67	1.239	NO	1.4811e4	7.1852e5	2.500	-11.8	11.1	0.934	0.104
6	6	1,2,3,4,6,7,8-HpCDD	38.14	0.967	NO	1.2598e4	6.3923e5	2.500	-9.4	11.7	0.870	0.102
7	7	OCDD	41.10	0.829	NO	2.0278e4	1.0815e6	5.000	-12.3	10.5	0.872	0.0919
8	8	2,3,7,8-TCDF	25.61	0.741	NO	6.3743e3	1.7020e6	0.500	-9.1	11.0	0.824	0.0906
9	9	1,2,3,7,8-PeCDF	29.71	1.553	NO	2.8451e4	1.3045e6	2.500	-9.4	8.34	0.983	0.0802
10	10	2,3,4,7,8-PeCDF	30.77	1.585	NO	3.1082e4	1.2877e6	2.500	-9.6	8.76	1.07	0.0936
11	11	1,2,3,4,7,8-HxCDF	33.37	1.216	NO	1.8105e4	9.2311e5	2.500	-13.2	11.9	0.853	0.113
12	12	1,2,3,6,7,8-HxCDF	33.50	1.289	NO	2.1285e4	9.5922e5	2.500	-11.9	11.1	1.01	0.112
13	13	2,3,4,6,7,8-HxCDF	34.17	1.242	NO	1.8735e4	8.7856e5	2.500	-13.9	11.8	0.891	0.117
14	14	1,2,3,7,8,9-HxCDF	35.18	1.196	NO	1.6178e4	7.9609e5	2.500	-14.5	12.3	0.951	0.117
15	15	1,2,3,4,6,7,8-HpCDF	36.73	0.956	NO	1.5353e4	7.2071e5	2.500	-14.7	14.9	0.899	0.149
16	16	1,2,3,4,7,8,9-HpCDF	38.77	1.003	NO	1.4403e4	5.7884e5	2.500	-11.4	12.2	1.12	0.137
17	17	OCDF	41.38	0.806	NO	2.3148e4	1.2351e6	5.000	-13.7	12.2	0.898	0.108
18	18	13C-2,3,7,8-TCDD	26.27	0.793	NO	1.2795e6	1.1246e6	100.000	2.8	3.19	1.11	0.0354
19	19	13C-1,2,3,7,8-PeCDD	30.96	0.626	NO	9.1149e5	1.1246e6	100.000	-5.8	6.80	0.859	0.0584
20	20	13C-1,2,3,4,7,8-HxCDD	34.27	1.273	NO	6.8505e5	9.7972e5	100.000	-3.8	7.67	0.700	0.0537
21	21	13C-1,2,3,6,7,8-HxCDD	34.38	1.275	NO	7.7295e5	9.7972e5	100.000	-5.3	6.74	0.833	0.0581

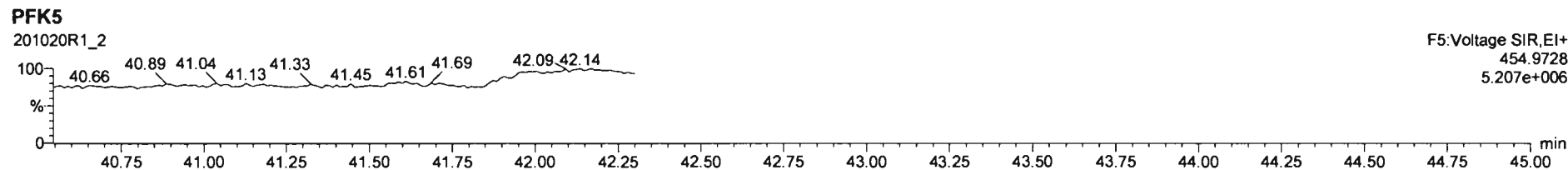
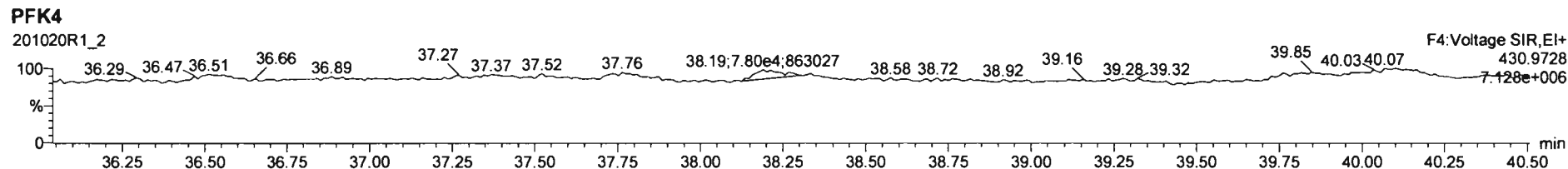
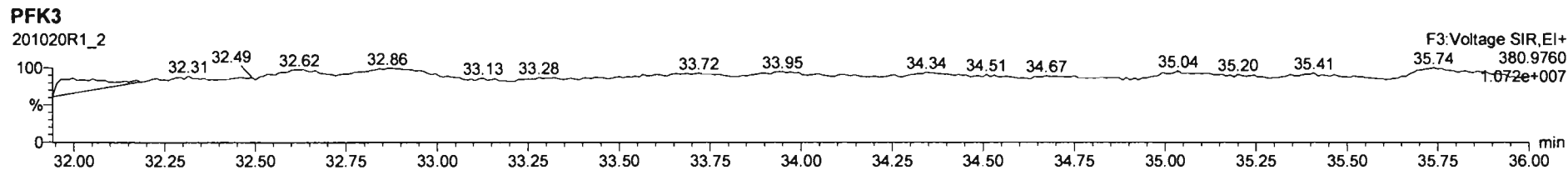
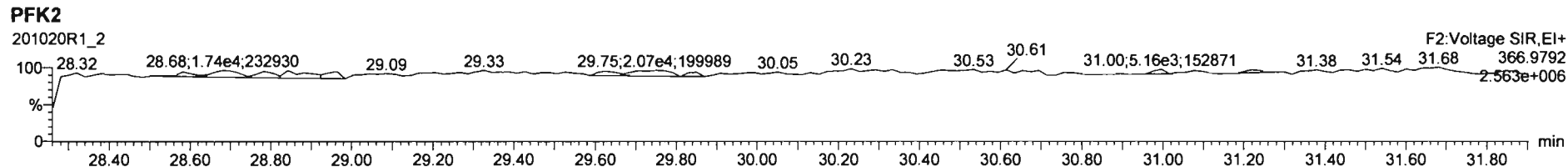
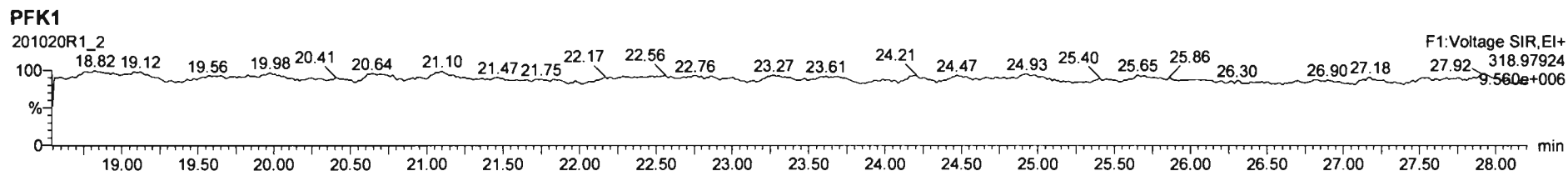


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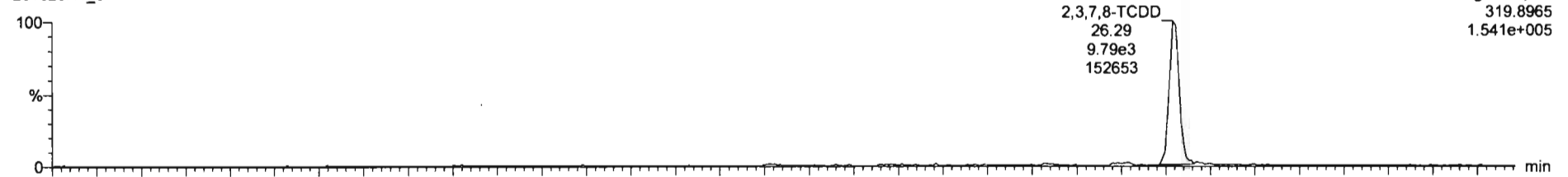
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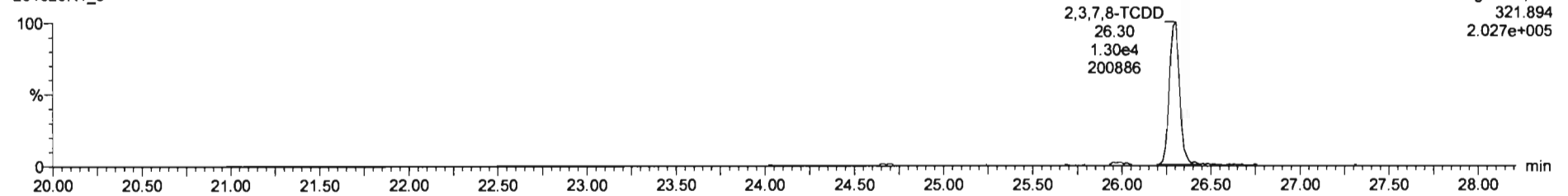
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2,3,7,8-TCDD

201020R1_3

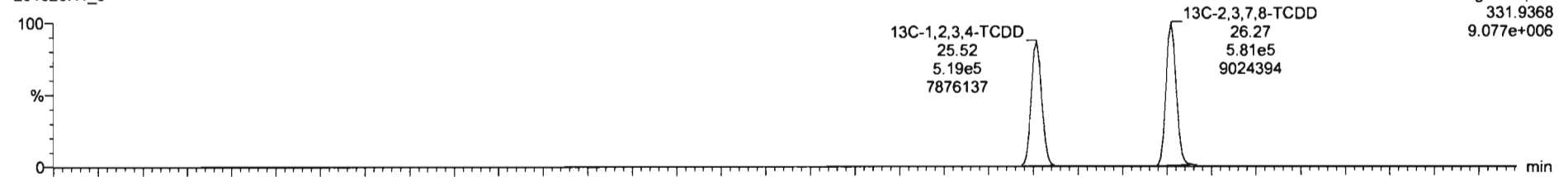


201020R1_3

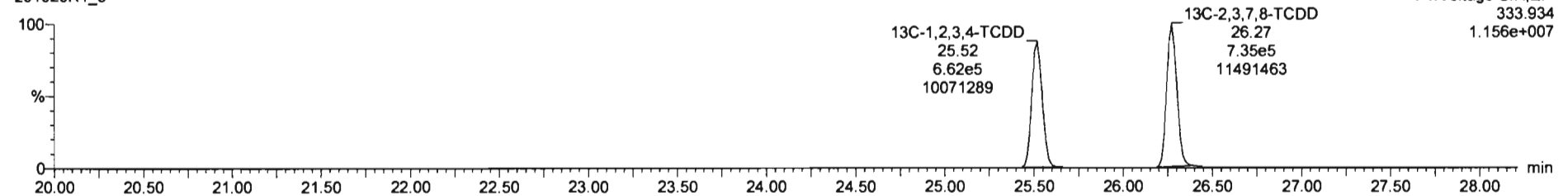


13C-2,3,7,8-TCDD

201020R1_3



201020R1_3



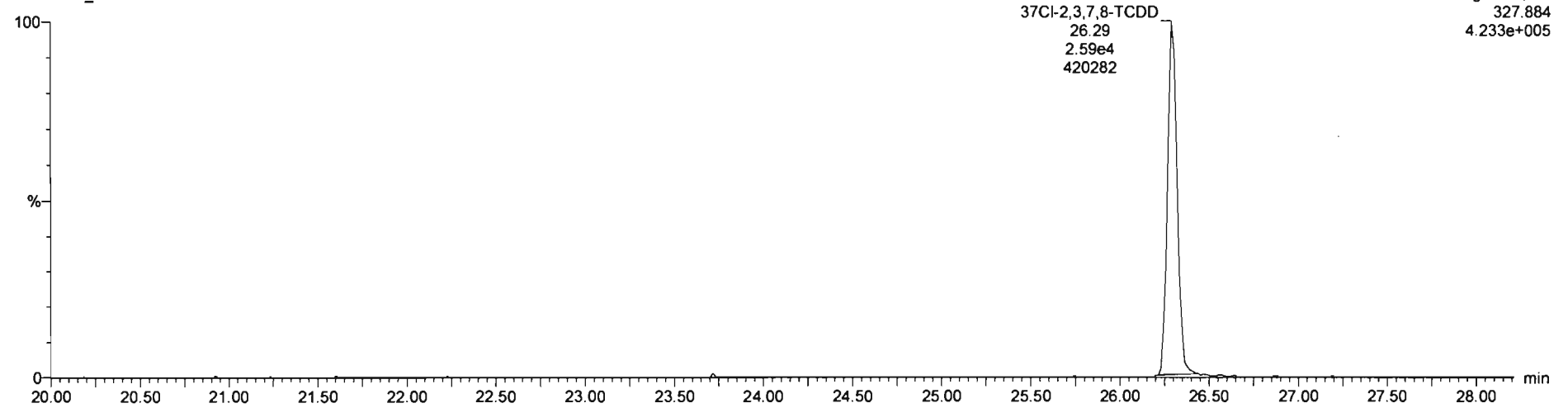
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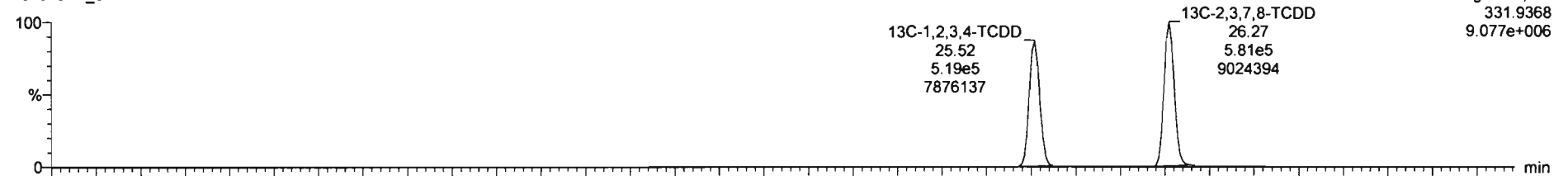
37Cl-2,3,7,8-TCDD

201020R1_3

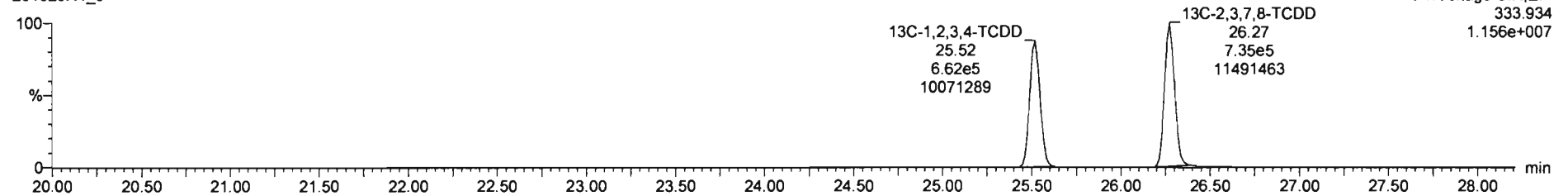


13C-1,2,3,4-TCDD

201020R1_3



201020R1_3



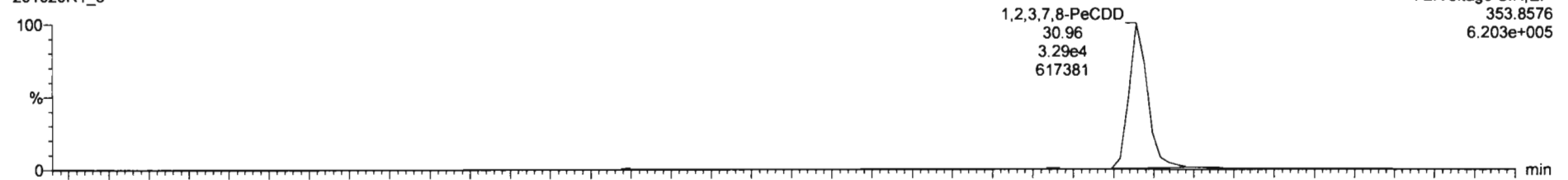
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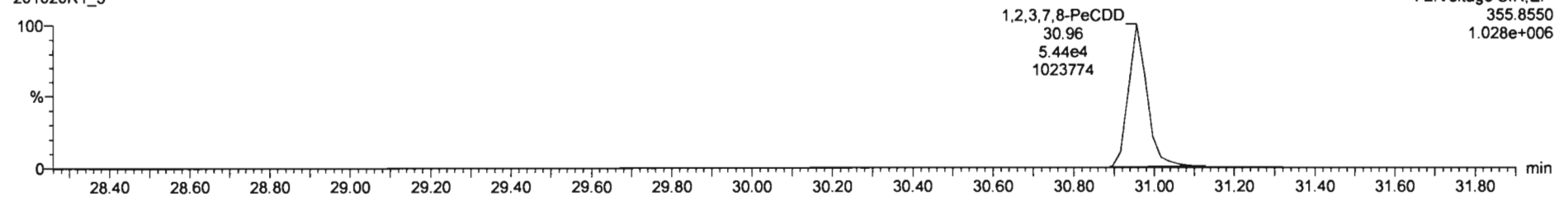
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1,2,3,7,8-PeCDD

201020R1_3

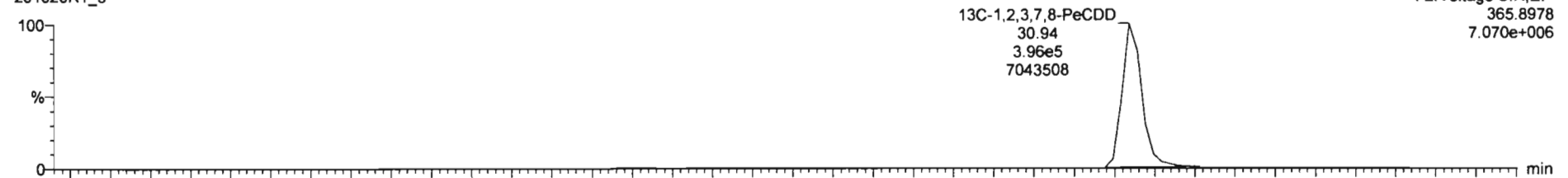


201020R1_3

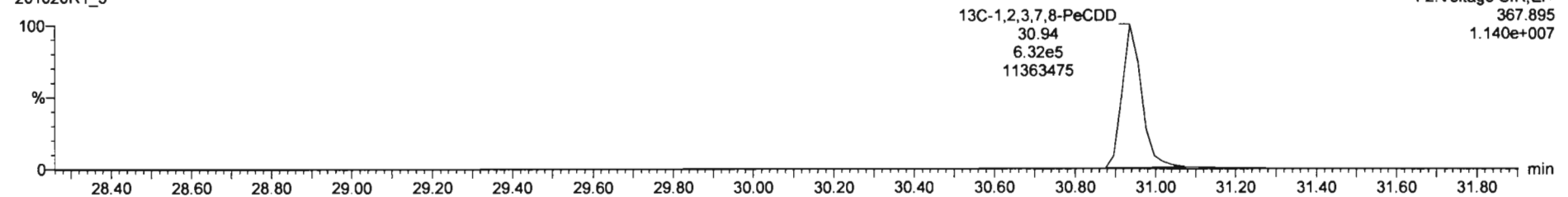


13C-1,2,3,7,8-PeCDD

201020R1_3



201020R1_3



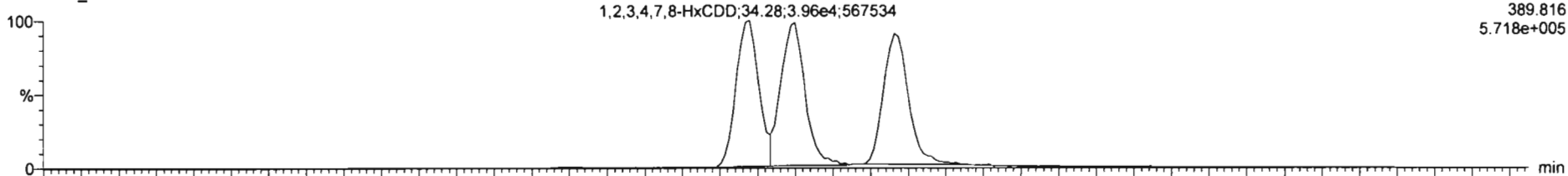
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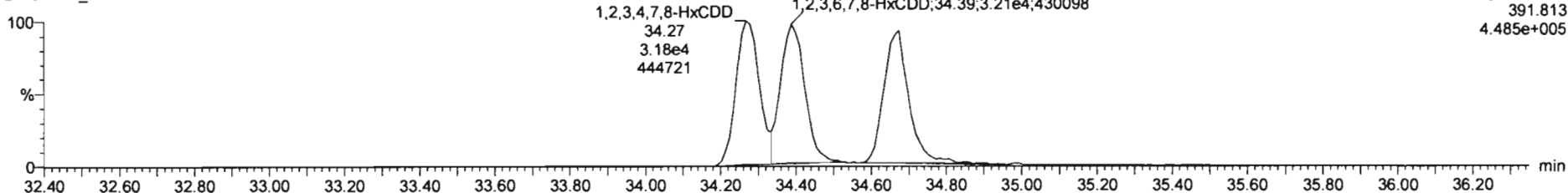
1,2,3,4,7,8-HxCDD

201020R1_3



F3:Voltage SIR,EI+
389.816
5.718e+005

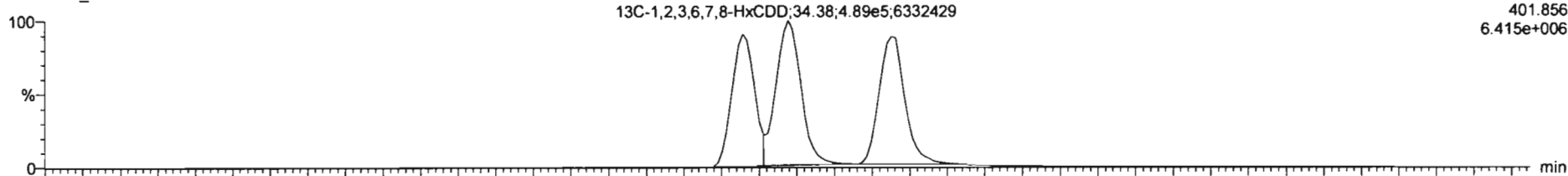
201020R1_3



F3:Voltage SIR,EI+
391.813
4.485e+005

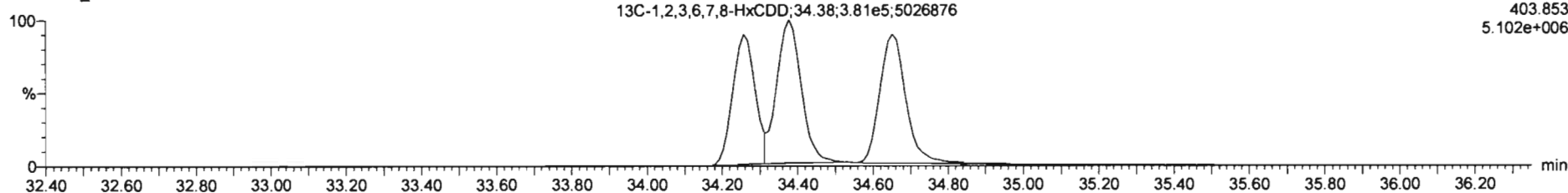
13C-1,2,3,4,7,8-HxCDD

201020R1_3



F3:Voltage SIR,EI+
401.856
6.415e+006

201020R1_3



F3:Voltage SIR,EI+
403.853
5.102e+006

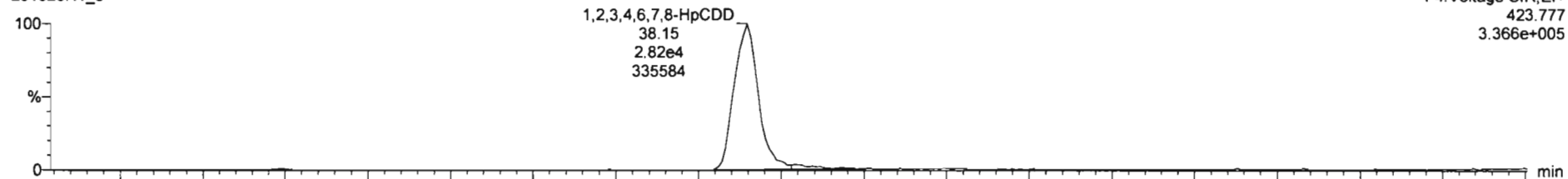
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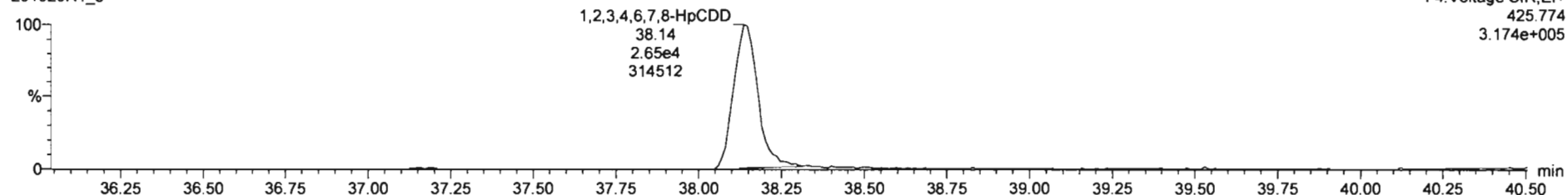
1,2,3,4,6,7,8-HpCDD

201020R1_3



F4:Voltage SIR,EI+
423.777
3.366e+005

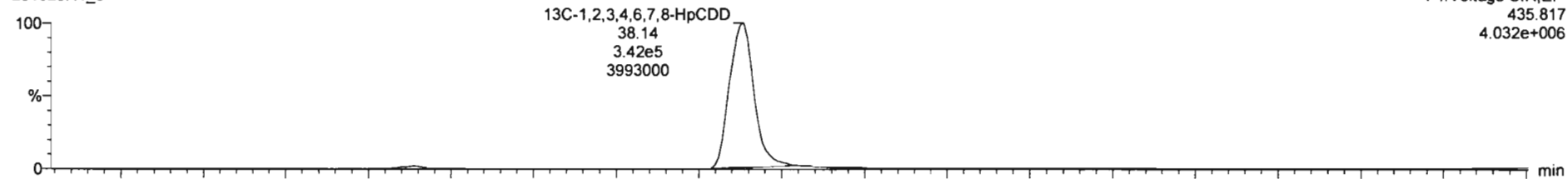
201020R1_3



F4:Voltage SIR,EI+
425.774
3.174e+005

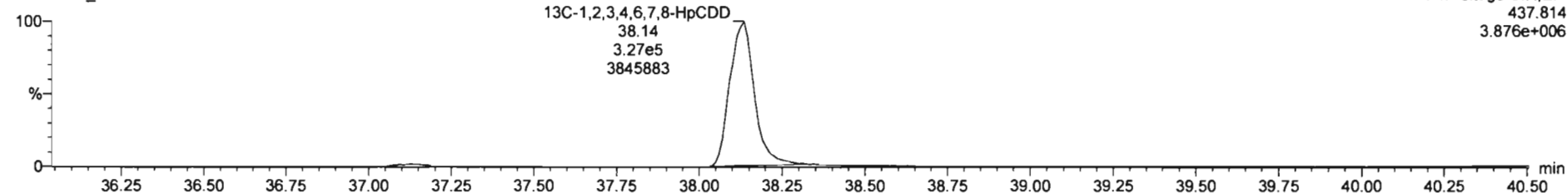
13C-1,2,3,4,6,7,8-HpCDD

201020R1_3



F4:Voltage SIR,EI+
435.817
4.032e+006

201020R1_3



F4:Voltage SIR,EI+
437.814
3.876e+006

Dataset: Untitled

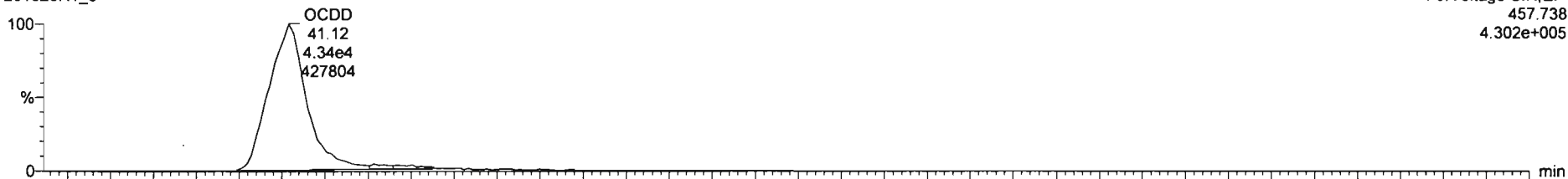
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_3, Date: 20-Oct-2020, Time: 10:48:17, ID: ST201020R1_3 1613 CS2 20F1104, Description: 1613 CS2 20F1104

OCDD

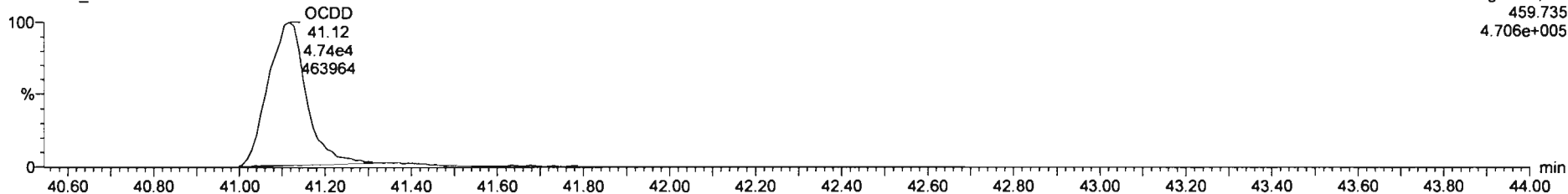
201020R1_3

F5:Voltage SIR, EI+
457.738
4.302e+005



201020R1_3

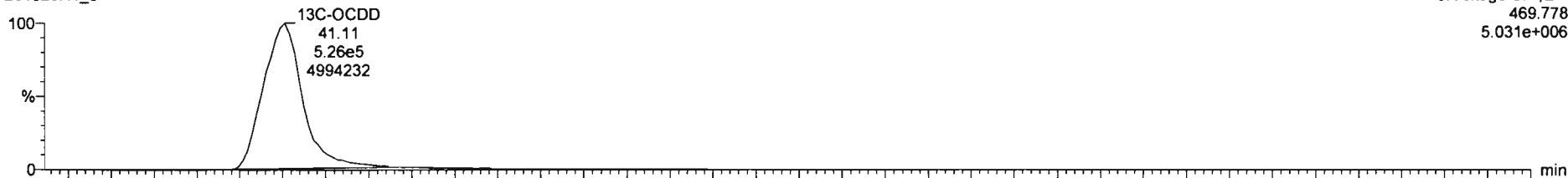
F5:Voltage SIR, EI+
459.735
4.706e+005



13C-OCDD

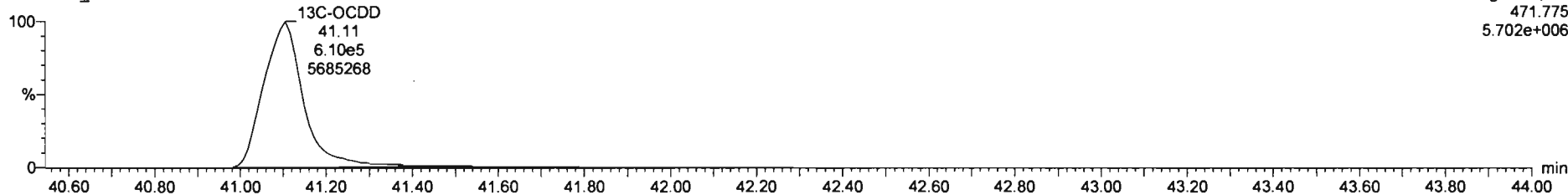
201020R1_3

F5:Voltage SIR, EI+
469.778
5.031e+006

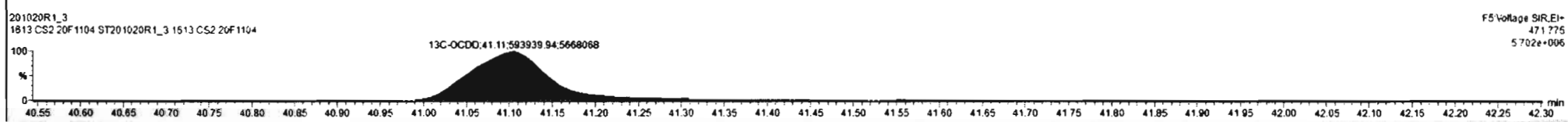
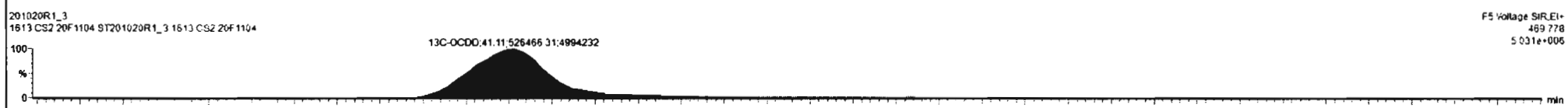
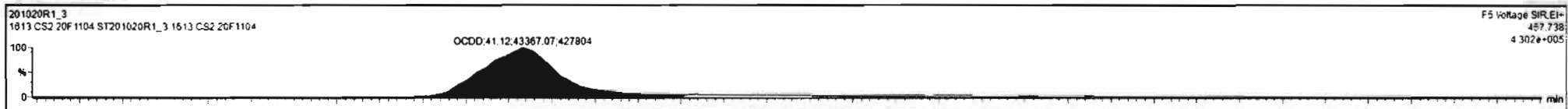


201020R1_3

F5:Voltage SIR, EI+
471.775
5.702e+006



#	Name	RT	RA	Yth	Area	S Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.754	NO	2.2771e4	1.3154e6	2.000	-8.9	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.606	NO	8.7271e4	1.0279e6	10.000	-4.1	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.245	NO	7.1328e4	7.0709e5	10.000	-0.9	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.293	NO	7.3710e4	8.6983e5	10.000	-7.3	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.66	1.247	NO	7.8437e4	8.0052e5	10.000	-5.8	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.15	1.064	NO	5.4834e4	6.6949e5	10.000	-6.2	11.7	0.870	0.102
7	OCDD	41.12	0.814	NO	0.8812e4	1.1204e6	20.000	-7.8	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.769	NO	2.7891e4	1.8231e6	2.000	-7.2	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.596	NO	1.3197e5	1.4163e6	10.000	-3.2	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.75	1.621	NO	1.5088e5	1.4537e6	10.000	-2.9	6.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.227	NO	9.2409e4	9.7566e5	10.000	-0.7	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.228	NO	1.0008e5	1.0311e6	10.000	-3.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.274	NO	9.1698e4	9.5781e5	10.000	-3.4	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.17	1.191	NO	7.4121e4	8.2291e5	10.000	-5.2	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.74	0.994	NO	7.2756e4	7.9997e5	10.000	-8.9	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.022	NO	5.9875e4	5.7733e5	10.000	-7.7	12.2	1.12	0.137
17	OCDF	41.40	0.875	NO	1.0781e5	1.2683e6	20.000	-3.6	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.790	NO	1.3154e6	1.1805e6	100.000	0.5	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.627	NO	1.0279e6	1.1805e6	100.000	1.4	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.291	NO	7.0709e5	1.0495e6	100.000	-3.7	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.38	1.266	NO	8.6983e5	1.0495e6	100.000	-0.5	8.74	0.833	0.0561



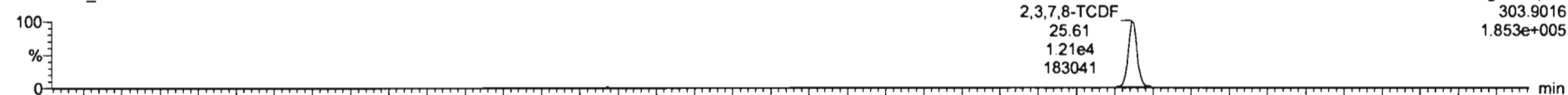
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

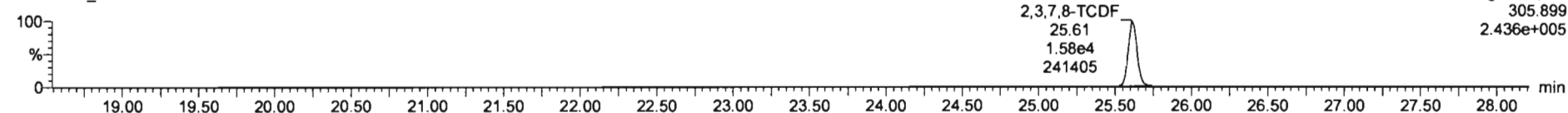
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2,3,7,8-TCDF

201020R1_3

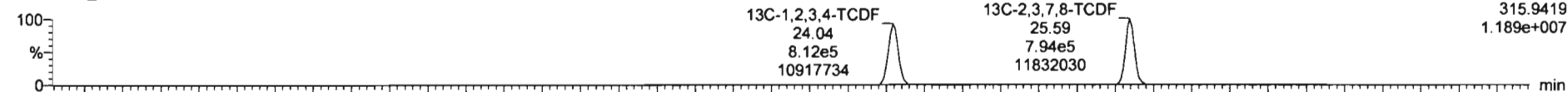


201020R1_3

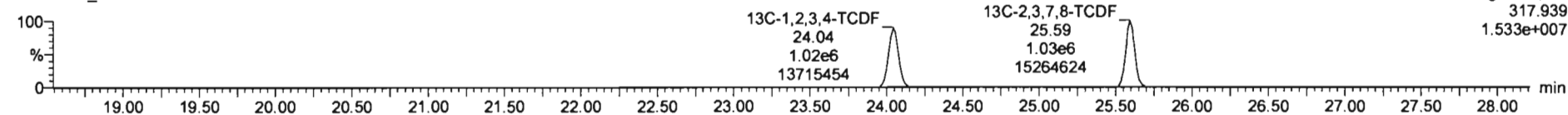


13C-2,3,7,8-TCDF

201020R1_3

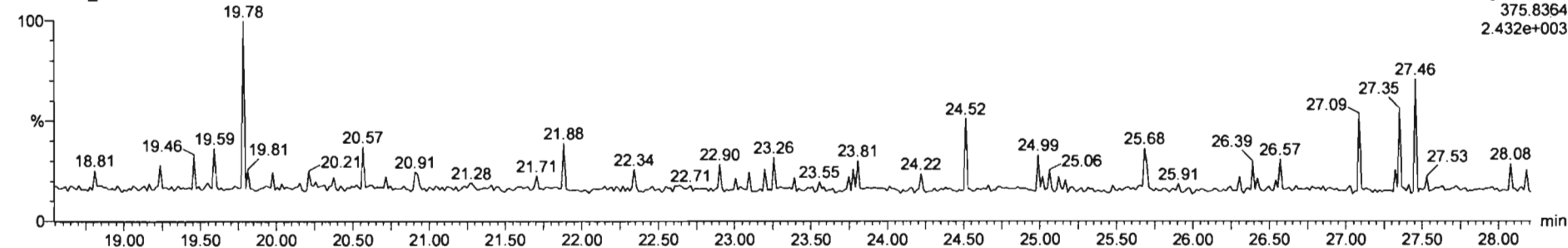


201020R1_3



DPE1

201020R1_3



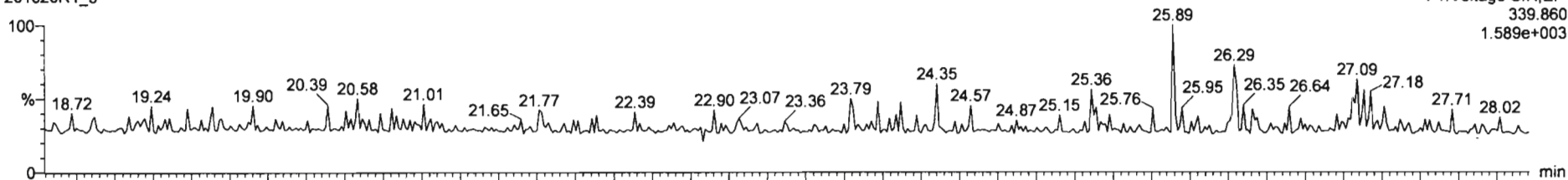
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

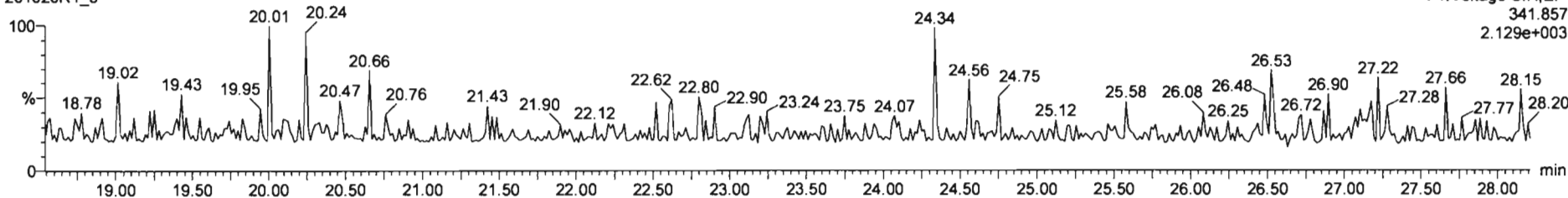
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1st Func. Penta-Furans

201020R1_3

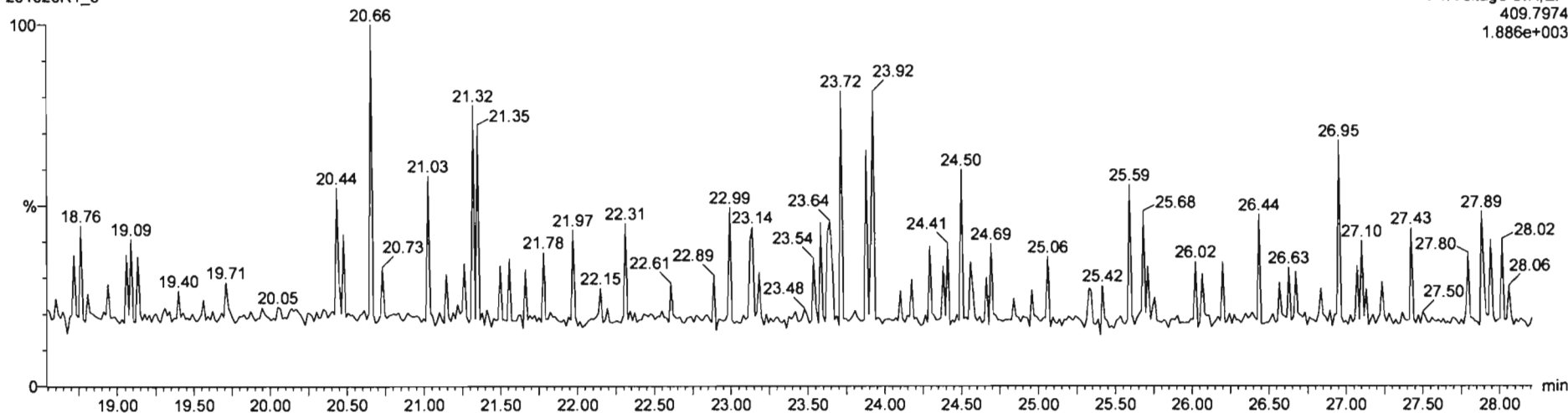


201020R1_3



DPE6

201020R1_3



Dataset: Untitled

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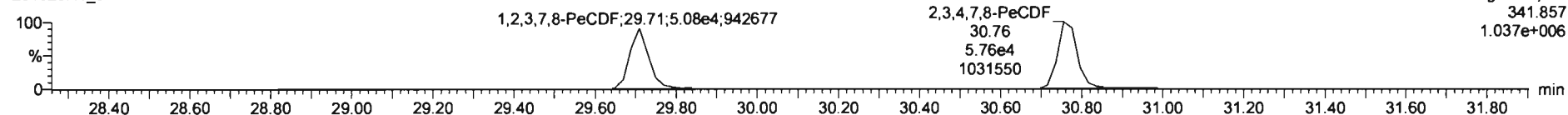
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1,2,3,7,8-PeCDF

201020R1_3

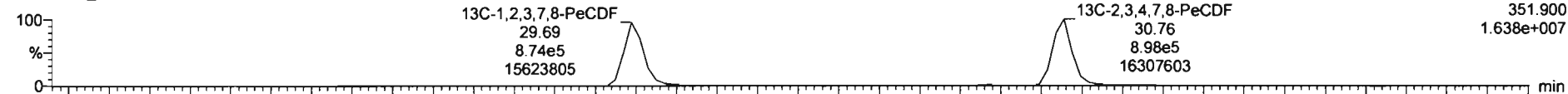


201020R1_3

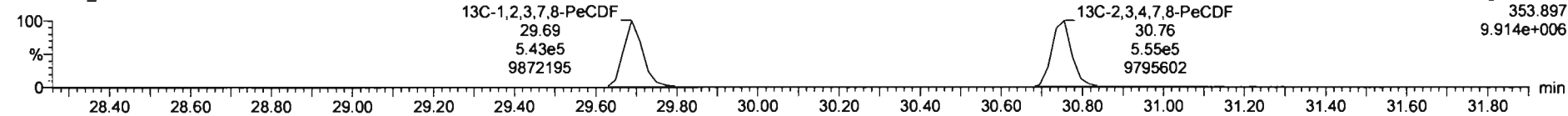


13C-1,2,3,7,8-PeCDF

201020R1_3

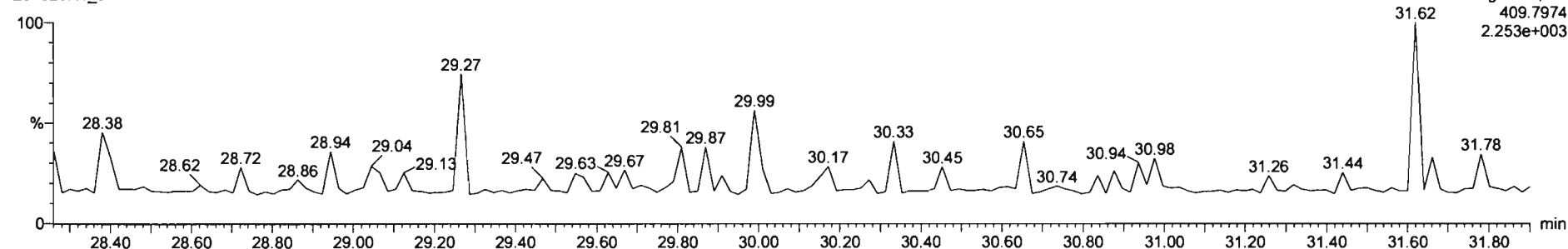


201020R1_3



DPE2

201020R1_3



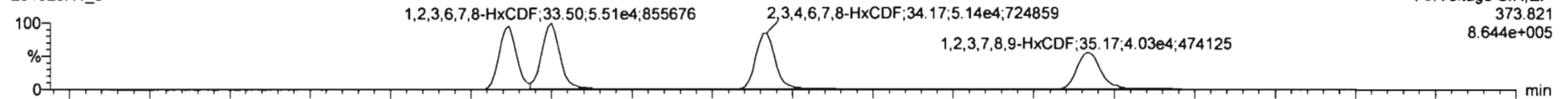
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

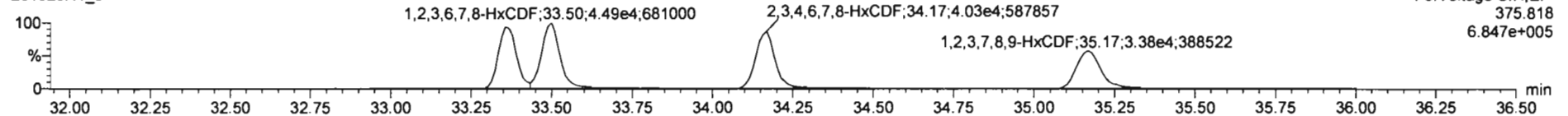
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1,2,3,4,7,8-HxCDF

201020R1_3

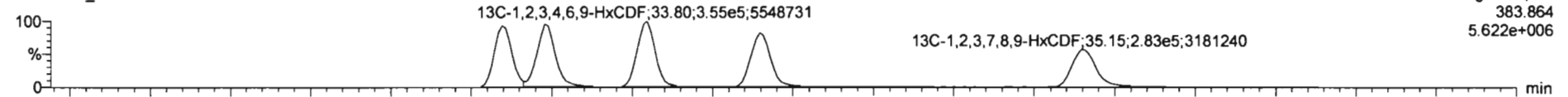


201020R1_3

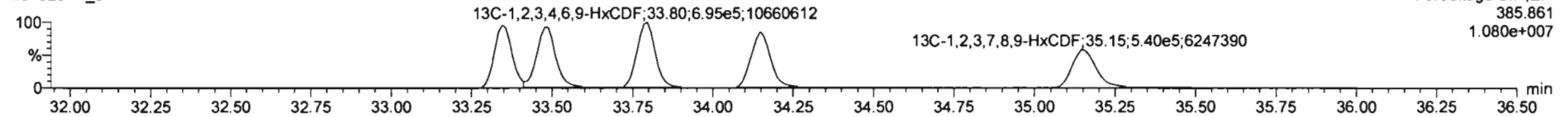


13C-1,2,3,4,7,8-HxCDF

201020R1_3

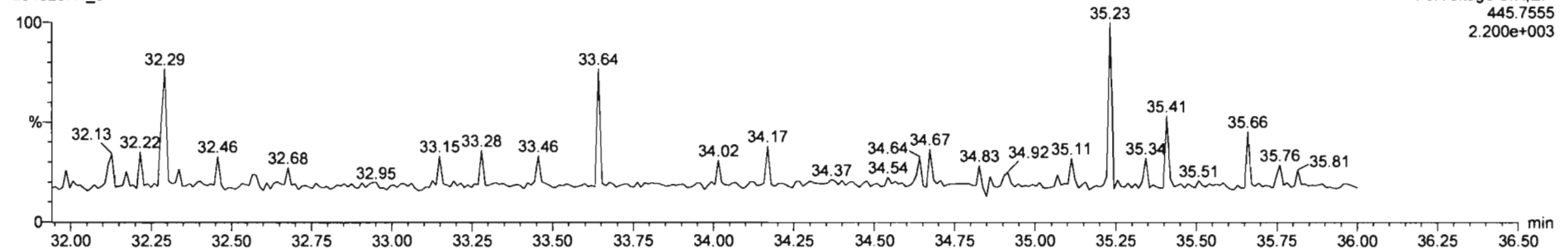


201020R1_3



DPE3

201020R1_3

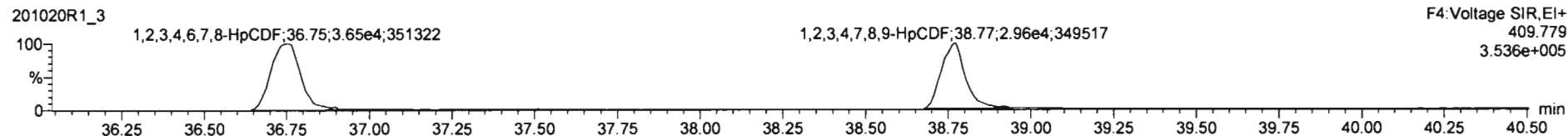
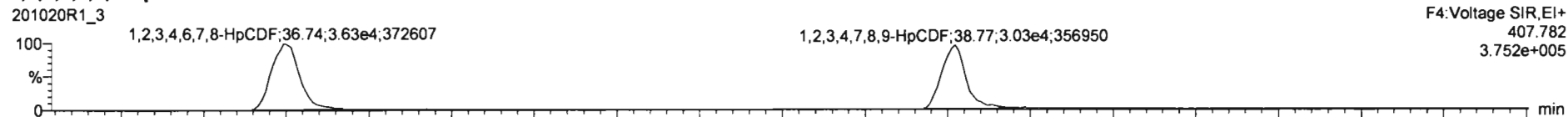


Dataset: Untitled

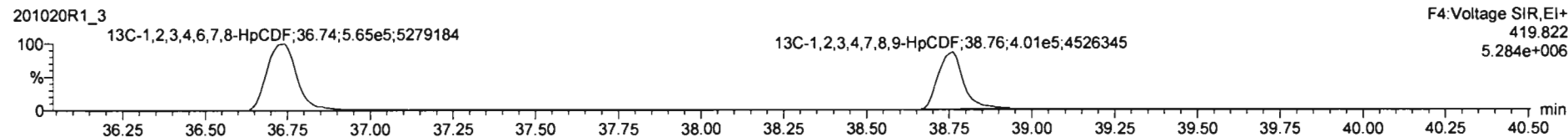
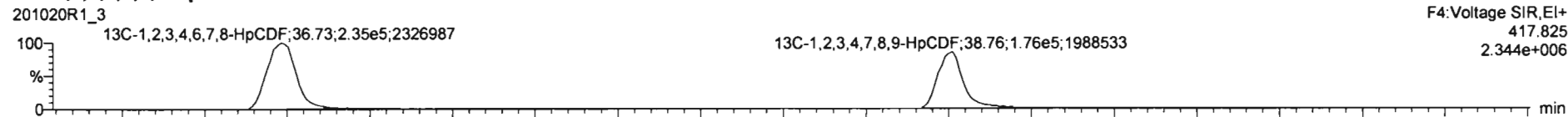
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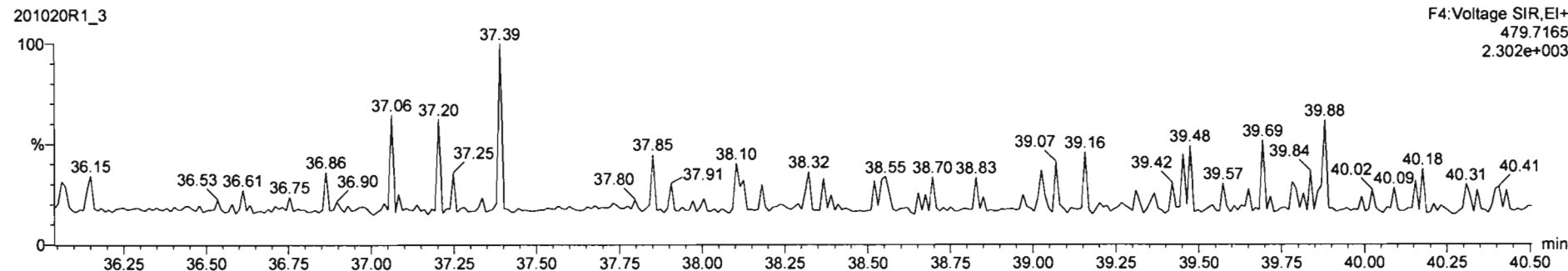
1,2,3,4,6,7,8-HpCDF



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



DPE4



Dataset: Untitled

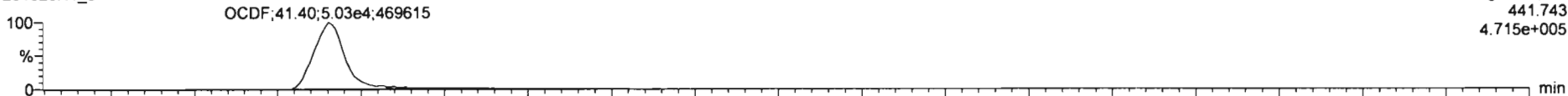
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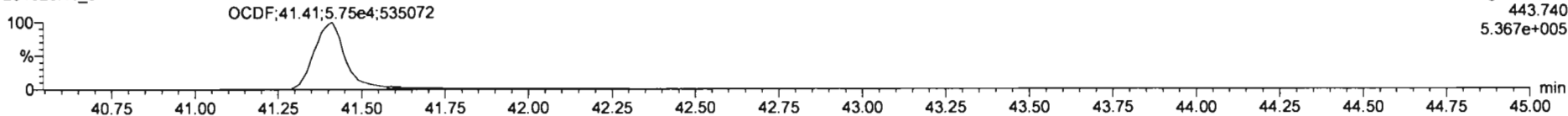
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OCDF

201020R1_3

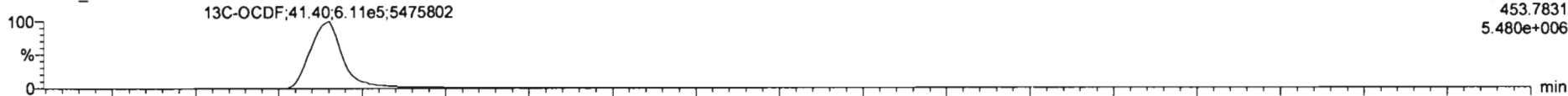


201020R1_3

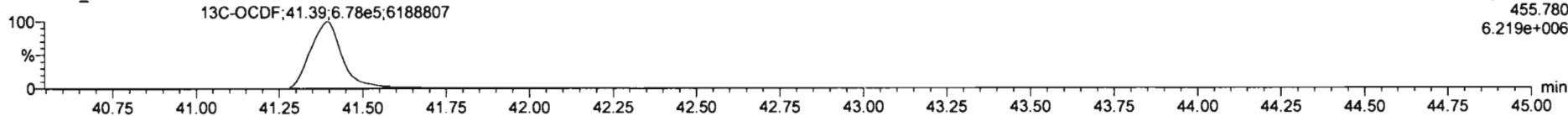


13C-OCDF

201020R1_3

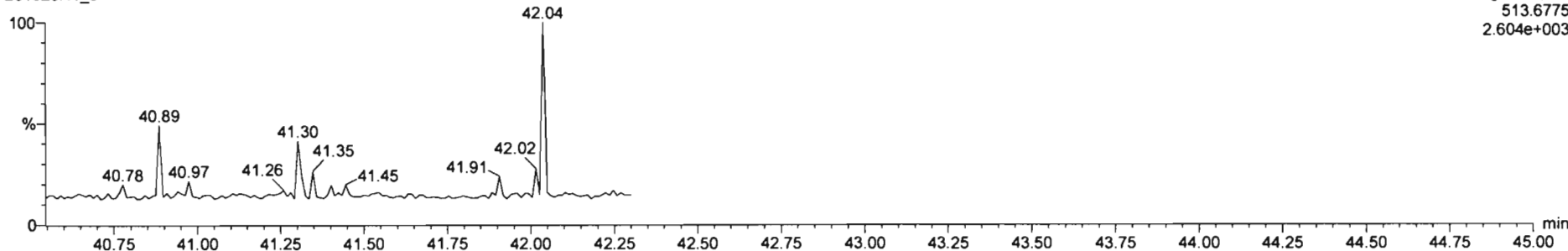


201020R1_3



DPE5

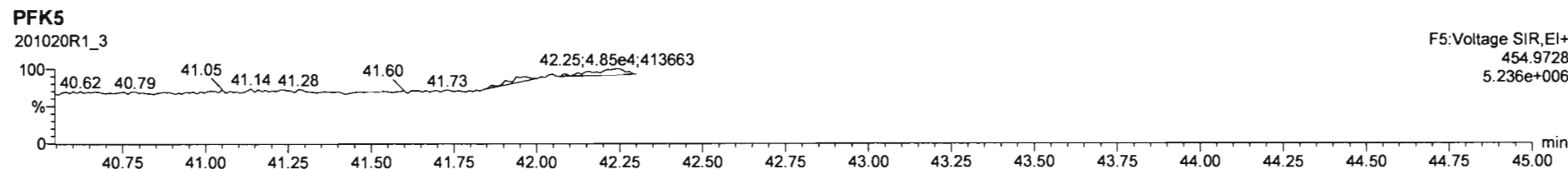
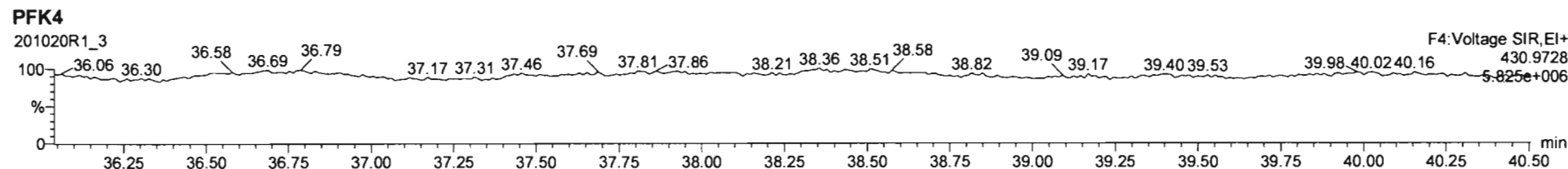
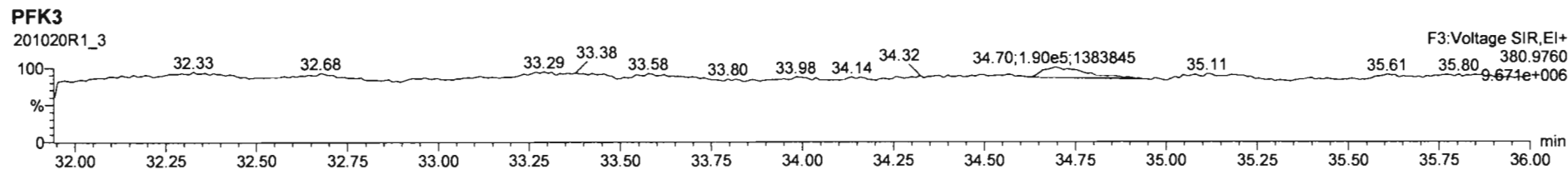
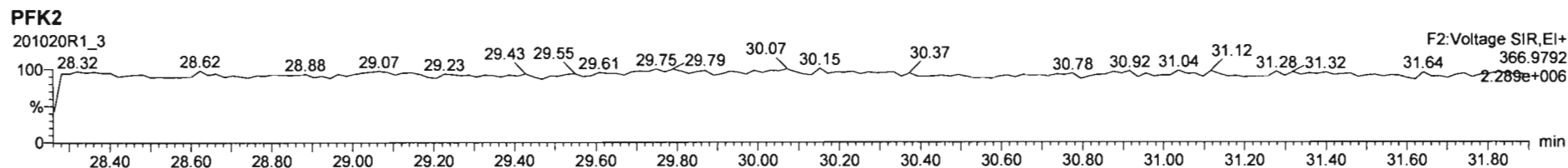
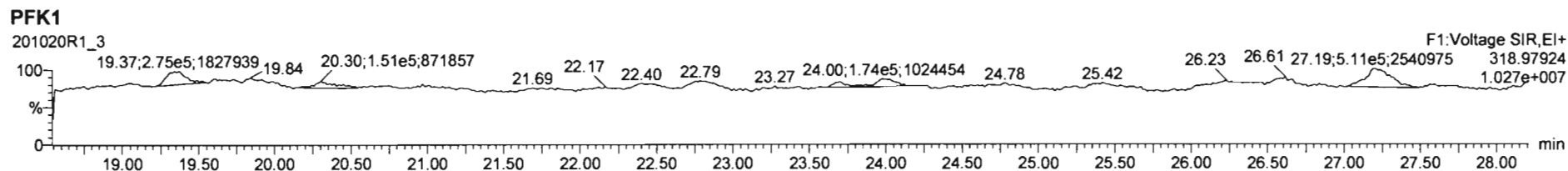
201020R1_3



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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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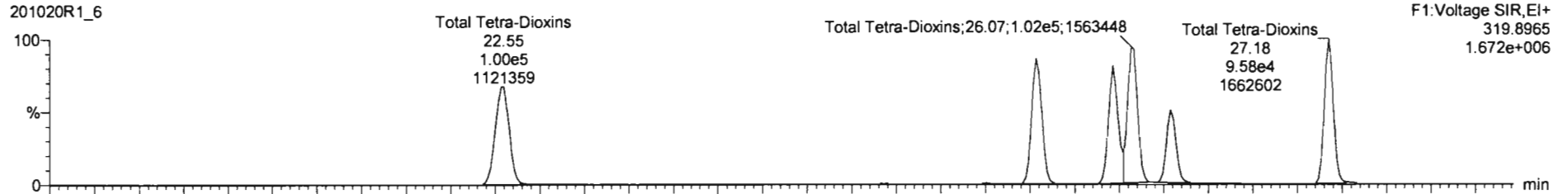
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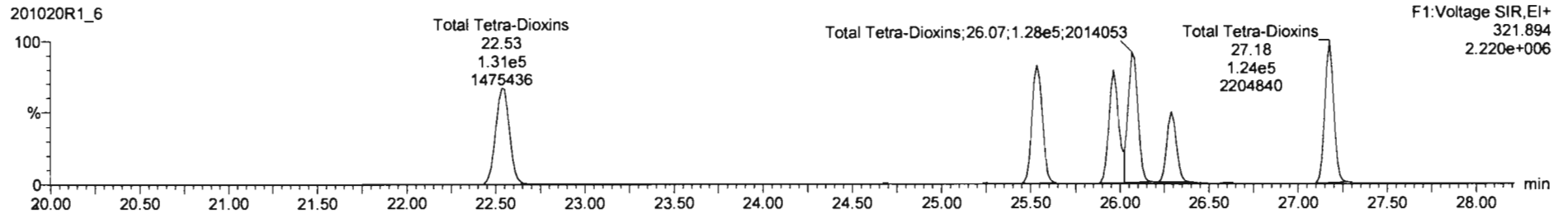
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2,3,7,8-TCDD

201020R1_6

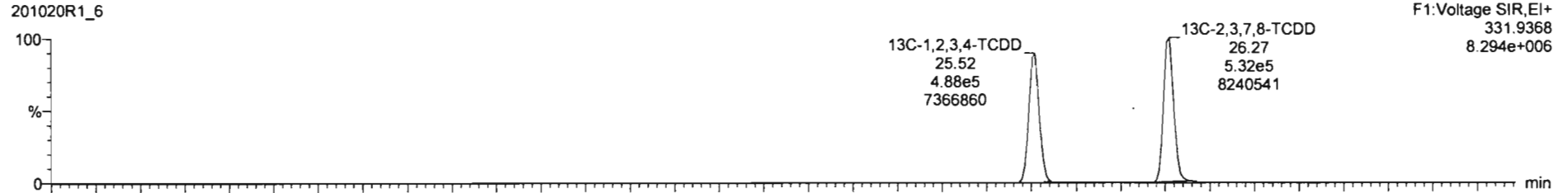


201020R1_6

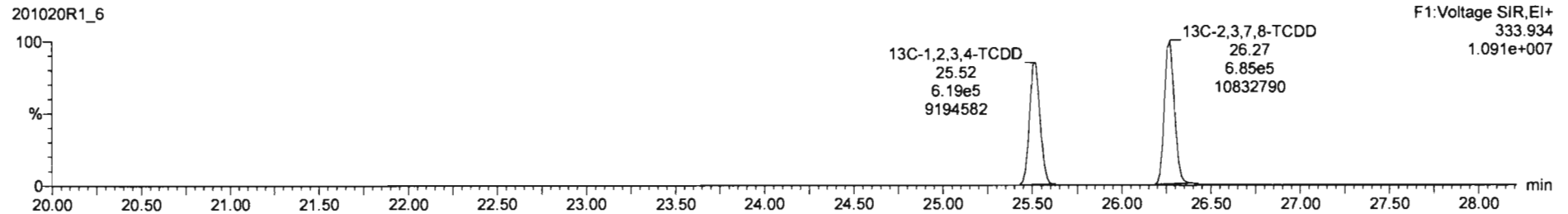


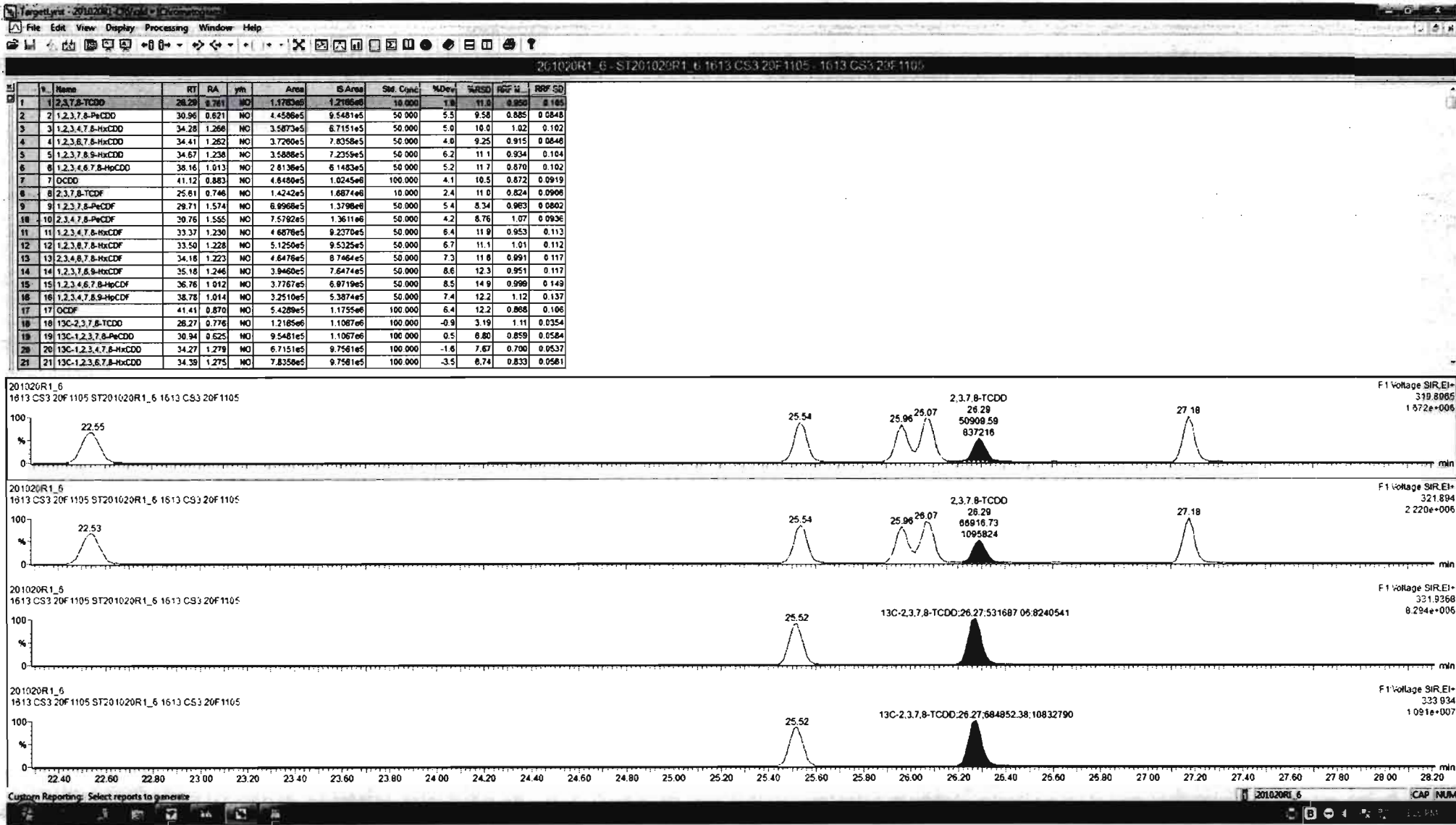
13C-2,3,7,8-TCDD

201020R1_6



201020R1_6





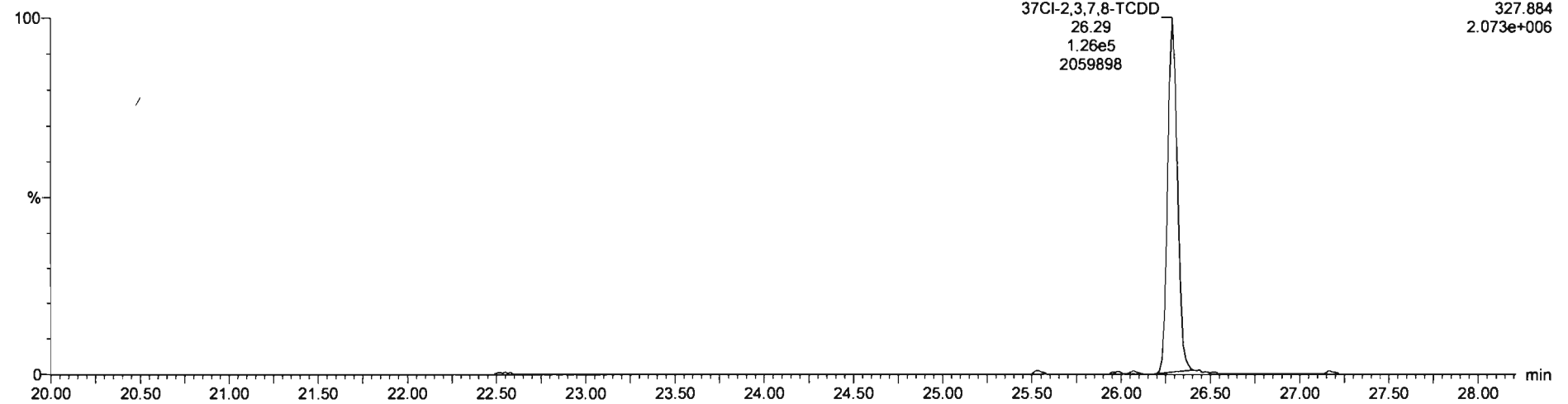
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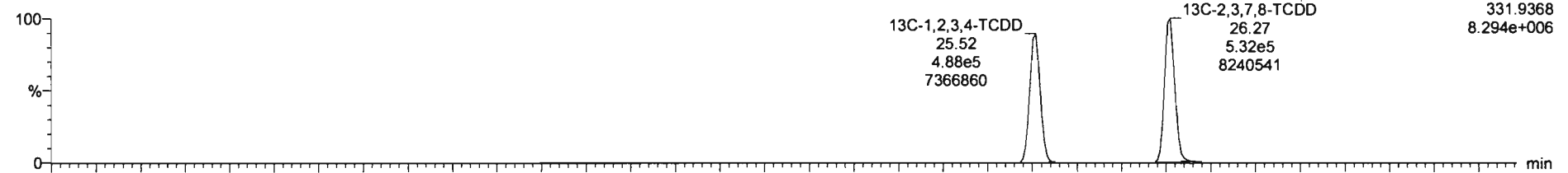
37Cl-2,3,7,8-TCDD

201020R1_6

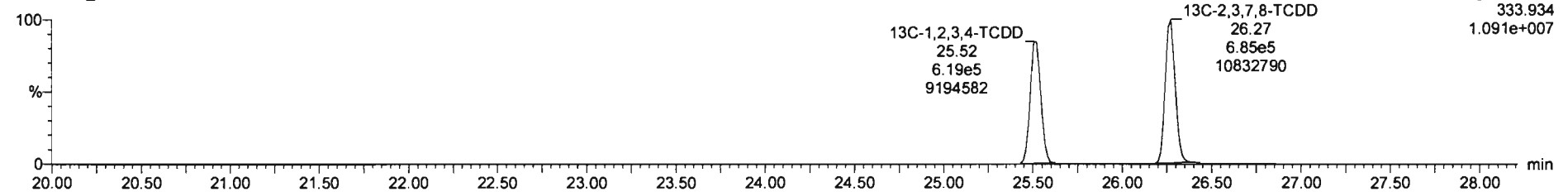


13C-1,2,3,4-TCDD

201020R1_6



201020R1_6



Dataset: Untitled

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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

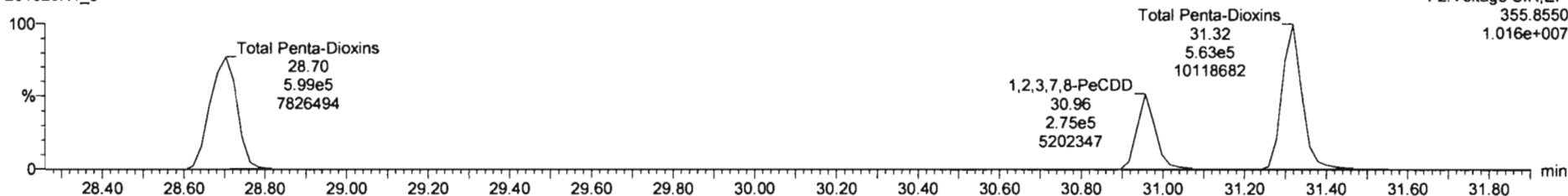
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1,2,3,7,8-PeCDD

201020R1_6

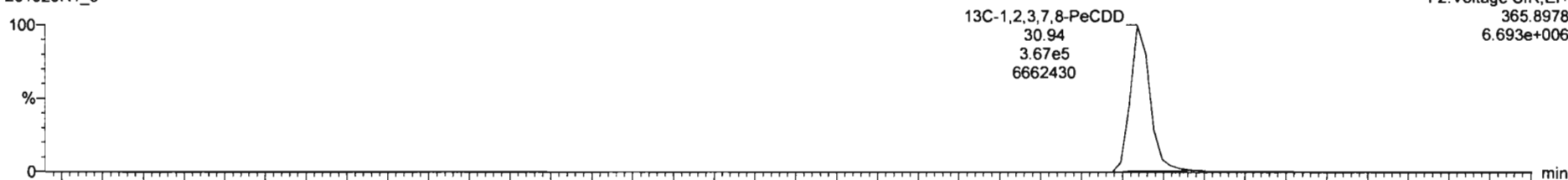


201020R1_6

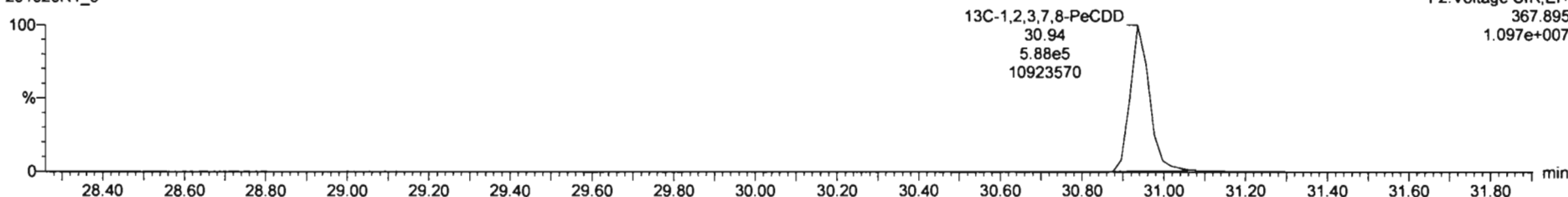


13C-1,2,3,7,8-PeCDD

201020R1_6



201020R1_6



Dataset: Untitled

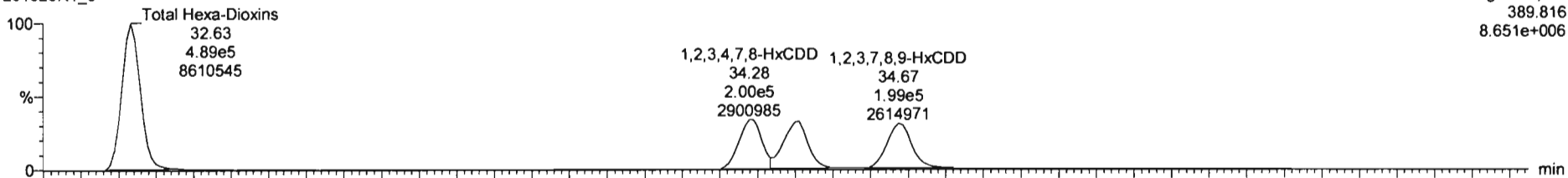
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1,2,3,4,7,8-HxCDD

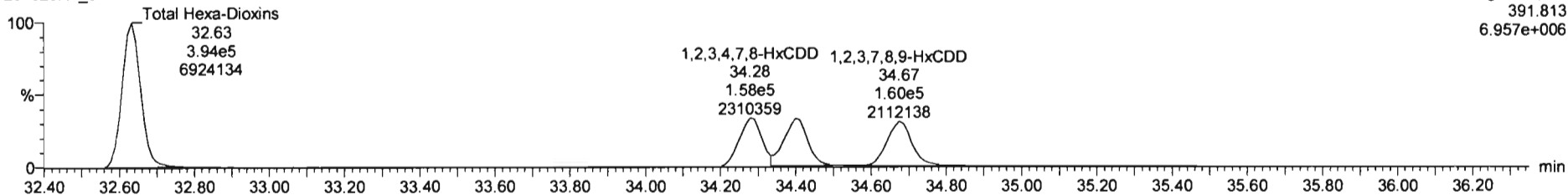
201020R1_6

F3:Voltage SIR,EI+
389.816
8.651e+006



201020R1_6

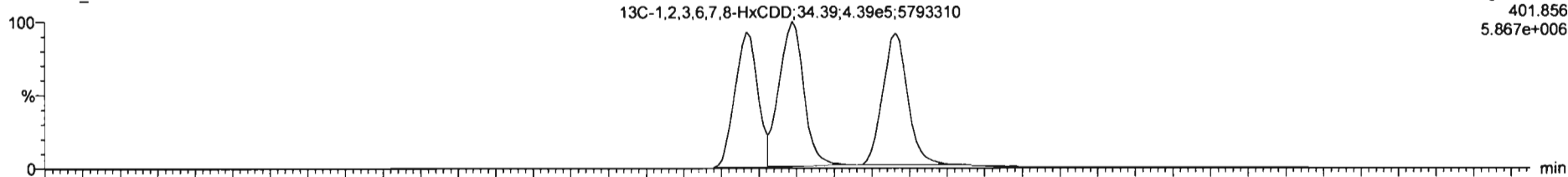
F3:Voltage SIR,EI+
391.813
6.957e+006



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

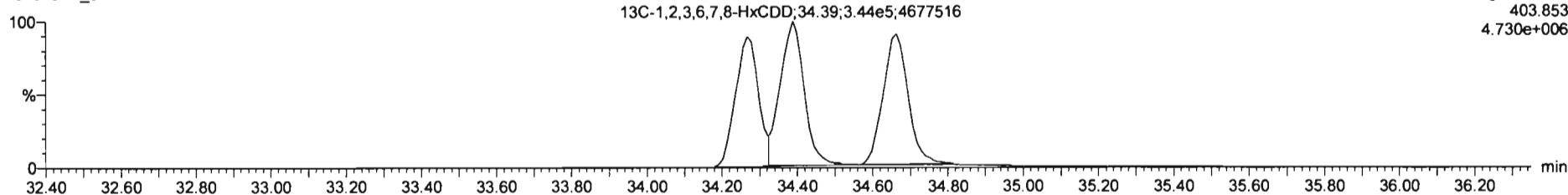
201020R1_6

F3:Voltage SIR,EI+
401.856
5.867e+006



201020R1_6

F3:Voltage SIR,EI+
403.853
4.730e+006



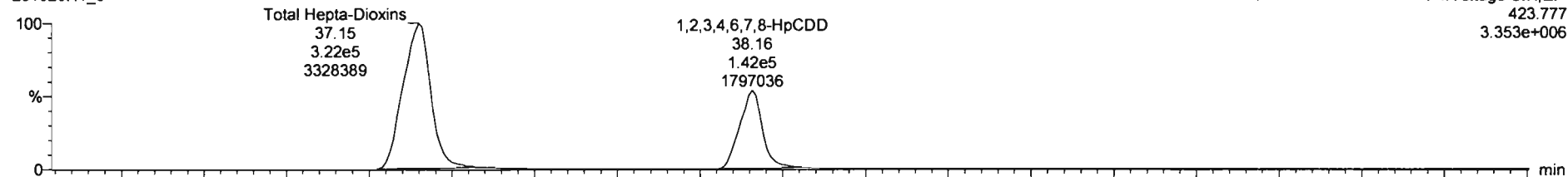
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105

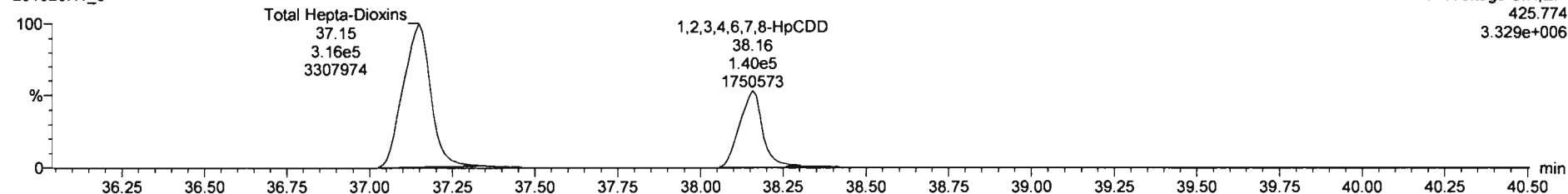
1,2,3,4,6,7,8-HpCDD

201020R1_6



F4: Voltage SIR, EI+
423.777
3.353e+006

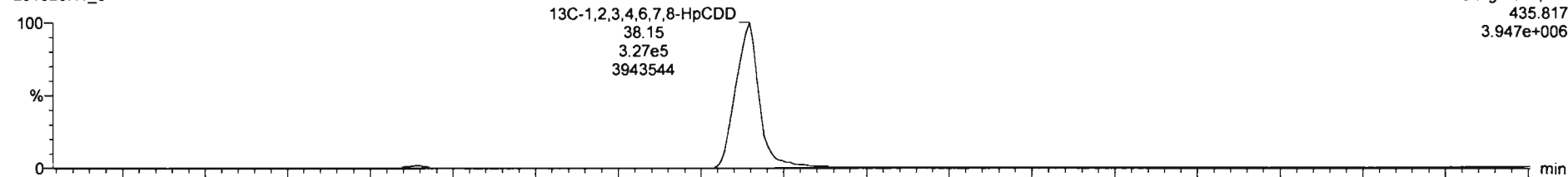
201020R1_6



F4: Voltage SIR, EI+
425.774
3.329e+006

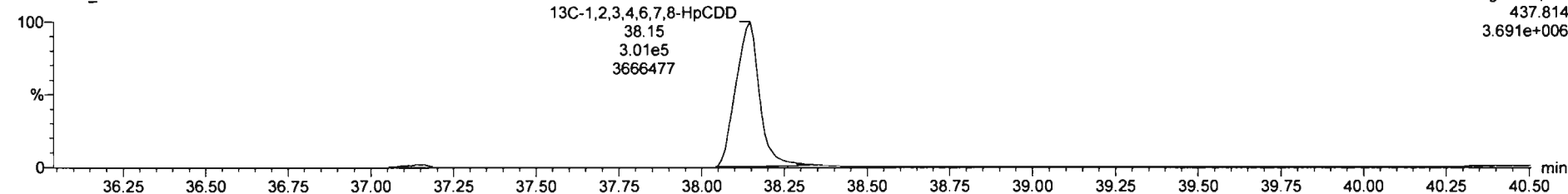
13C-1,2,3,4,6,7,8-HpCDD

201020R1_6



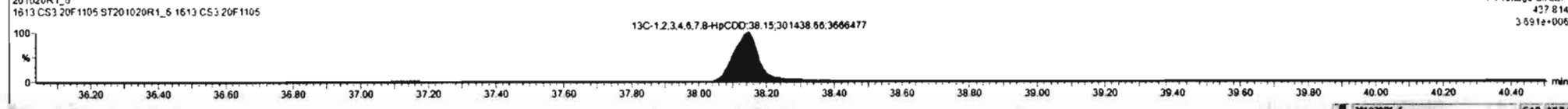
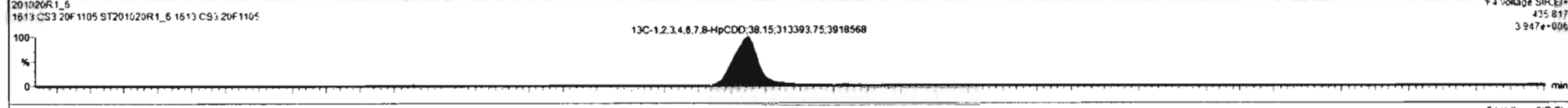
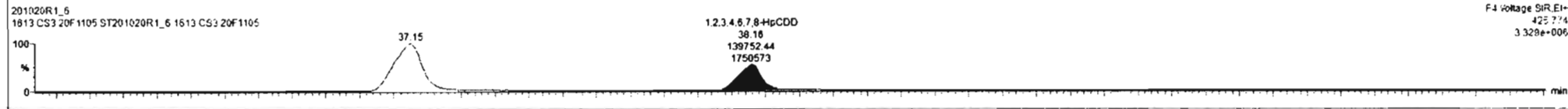
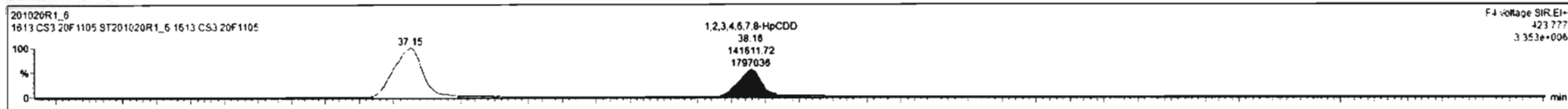
F4: Voltage SIR, EI+
435.817
3.947e+006

201020R1_6



F4: Voltage SIR, EI+
437.814
3.691e+006

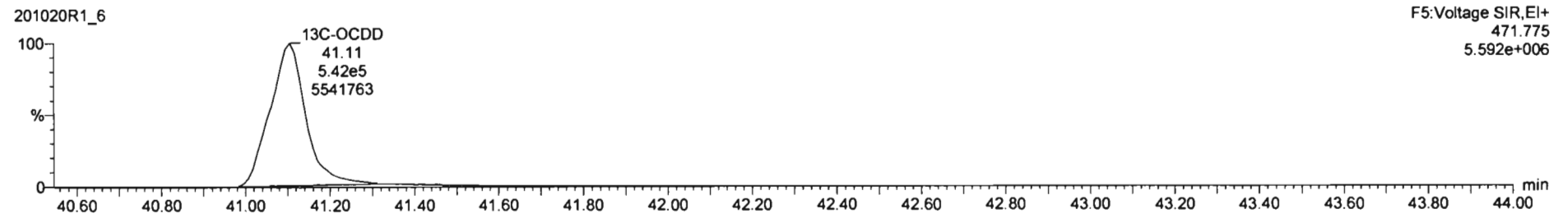
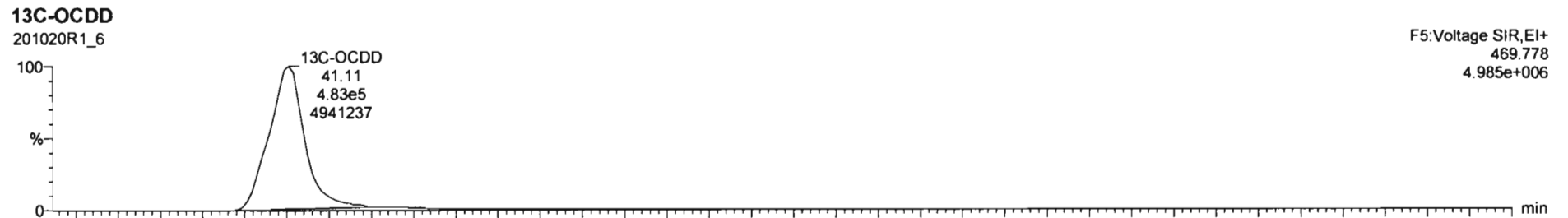
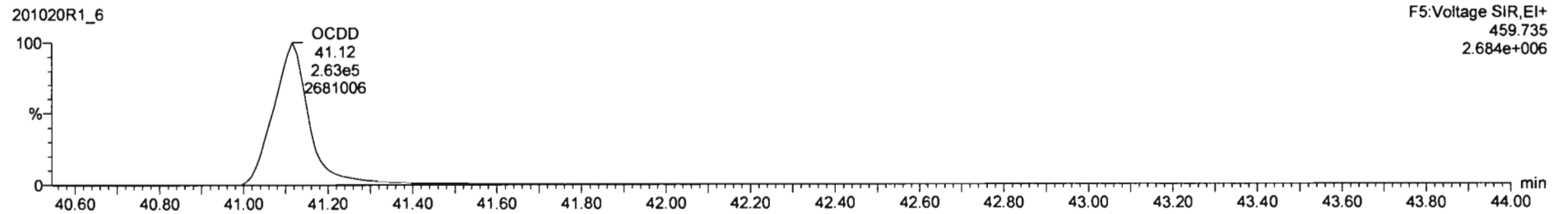
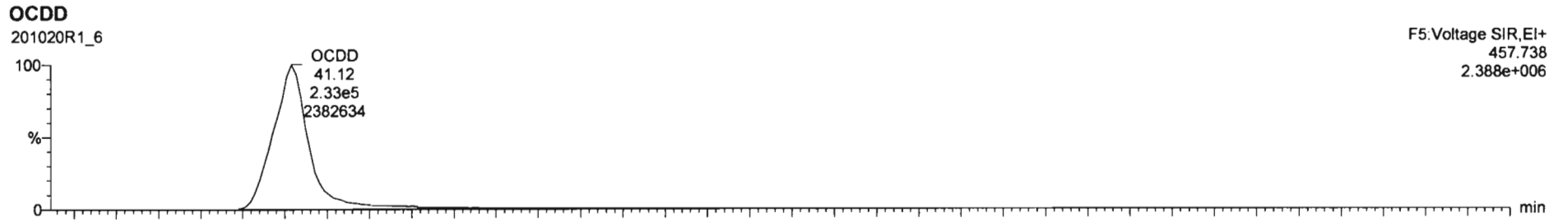
#	Name	RT	RA	yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.761	NO	1.1783e5	1.2185e6	10.000	1.9	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.96	0.621	NO	4.4586e5	9.5481e5	50.000	5.5	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.266	NO	3.5873e5	6.7151e5	50.000	5.0	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.262	NO	3.7260e5	7.8358e5	50.000	4.0	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.67	1.238	NO	3.5888e5	7.2359e5	50.000	6.2	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.16	1.613	NO	2.8136e5	6.1883e5	50.000	5.2	11.7	0.878	0.182
7	OCDD	41.12	0.883	NO	4.8480e5	1.0245e6	100.000	4.1	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.746	NO	1.4242e5	1.6874e6	10.000	2.4	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.574	NO	8.9598e5	1.3798e6	50.000	5.4	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.76	1.555	NO	7.5782e5	1.3611e6	50.000	4.2	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.230	NO	4.6878e5	9.2370e5	50.000	6.4	11.9	0.853	0.112
12	1,2,3,6,7,8-HxCDF	33.50	1.228	NO	5.1250e5	9.5325e5	50.000	6.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.223	NO	4.6476e5	8.7464e5	50.000	7.3	11.6	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.246	NO	3.9460e5	7.6474e5	50.000	8.6	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.012	NO	3.7767e5	6.9719e5	50.000	8.5	14.9	0.908	0.149
16	1,2,3,4,7,8,9-HpCDF	38.78	1.014	NO	3.2510e5	5.3874e5	50.000	7.4	12.2	1.12	0.137
17	OCDF	41.41	0.870	NO	5.4289e5	1.1755e6	100.000	6.4	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.27	0.776	NO	1.2185e6	1.1067e6	100.000	-0.9	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.94	0.625	NO	9.5481e5	1.1067e6	100.000	0.5	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.279	NO	6.7151e5	9.7561e5	100.000	-1.6	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.275	NO	7.8358e5	9.7561e5	100.000	-3.5	8.74	0.833	0.0561

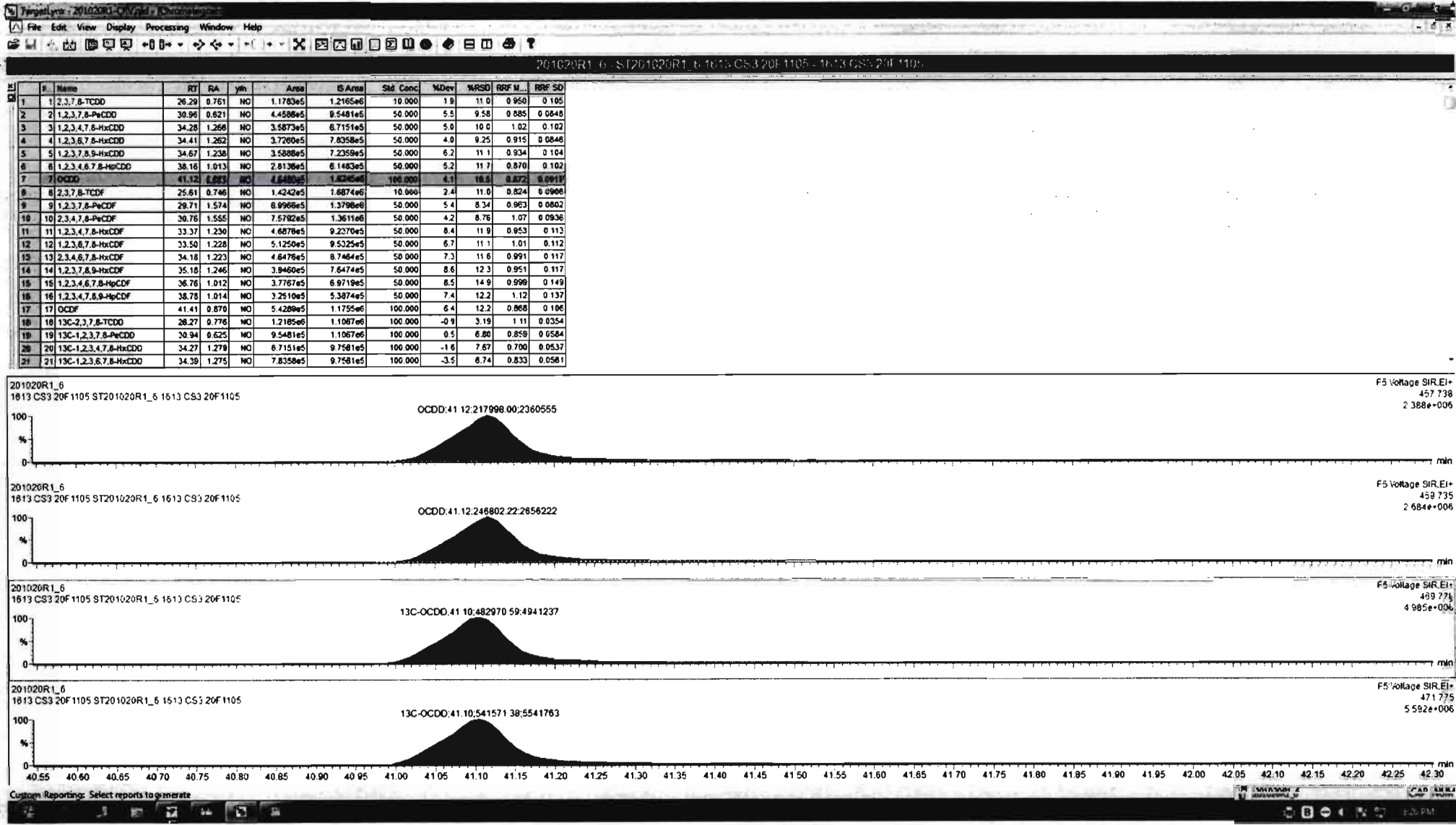


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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_6, Date: 20-Oct-2020, Time: 13:01:38, ID: ST201020R1_6 1613 CS3 20F1105, Description: 1613 CS3 20F1105





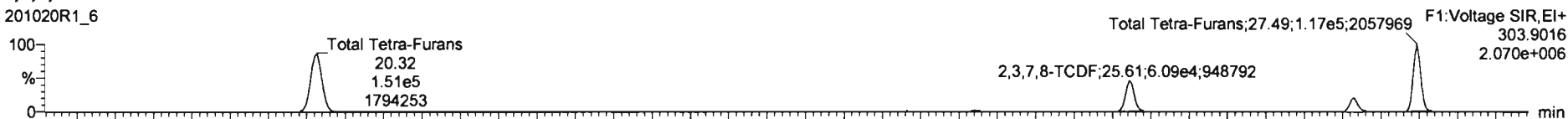
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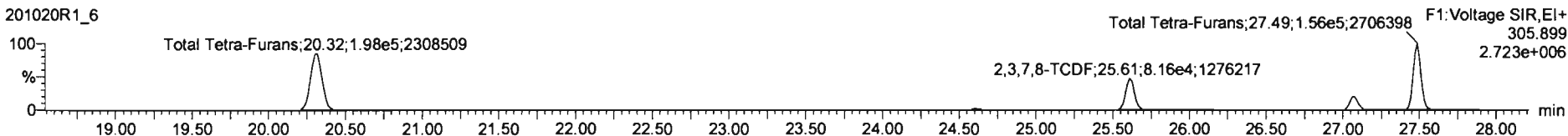
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2,3,7,8-TCDF

201020R1_6

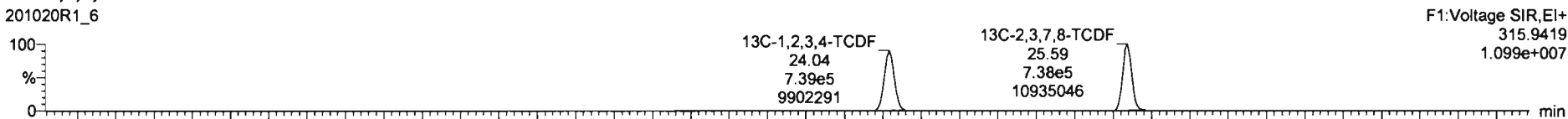


201020R1_6

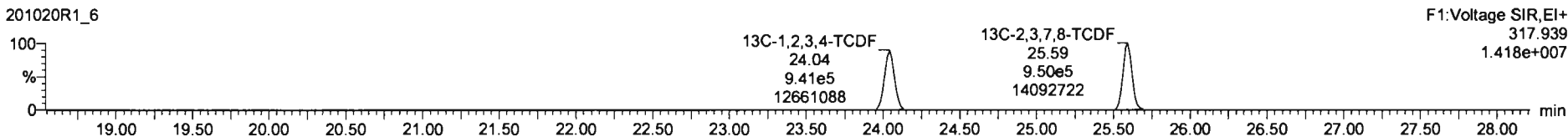


13C-2,3,7,8-TCDF

201020R1_6

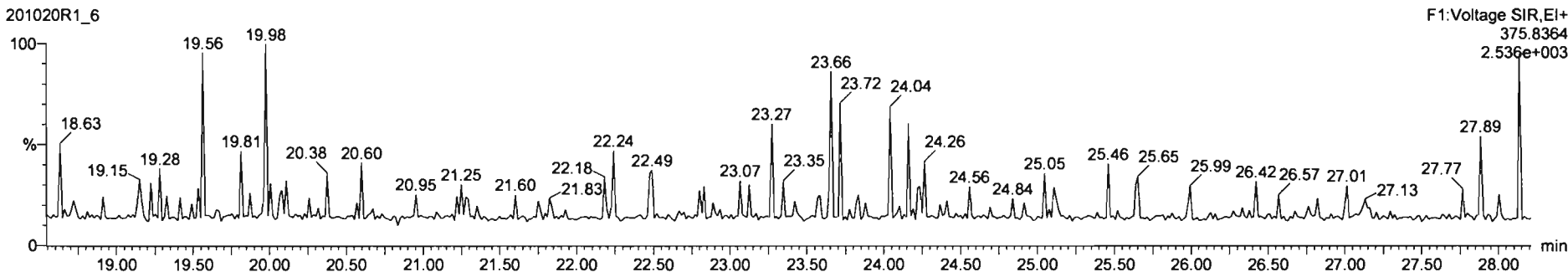


201020R1_6



DPE1

201020R1_6



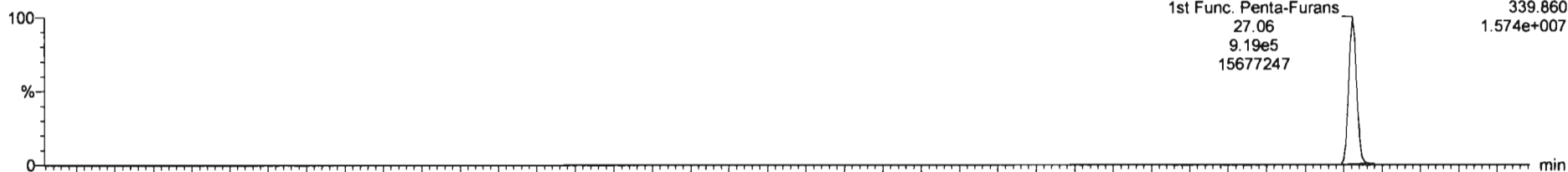
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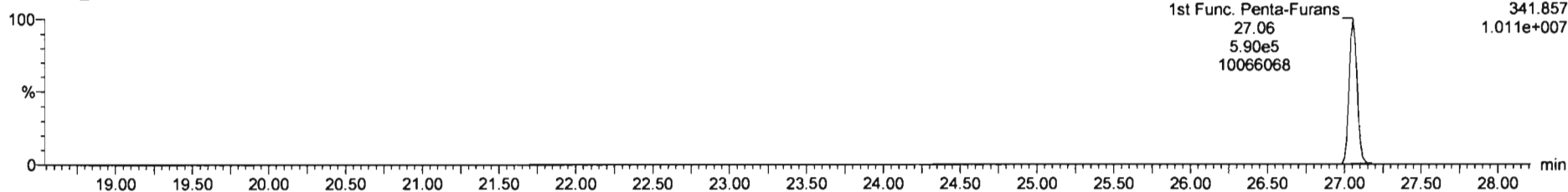
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1st Func. Penta-Furans

201020R1_6

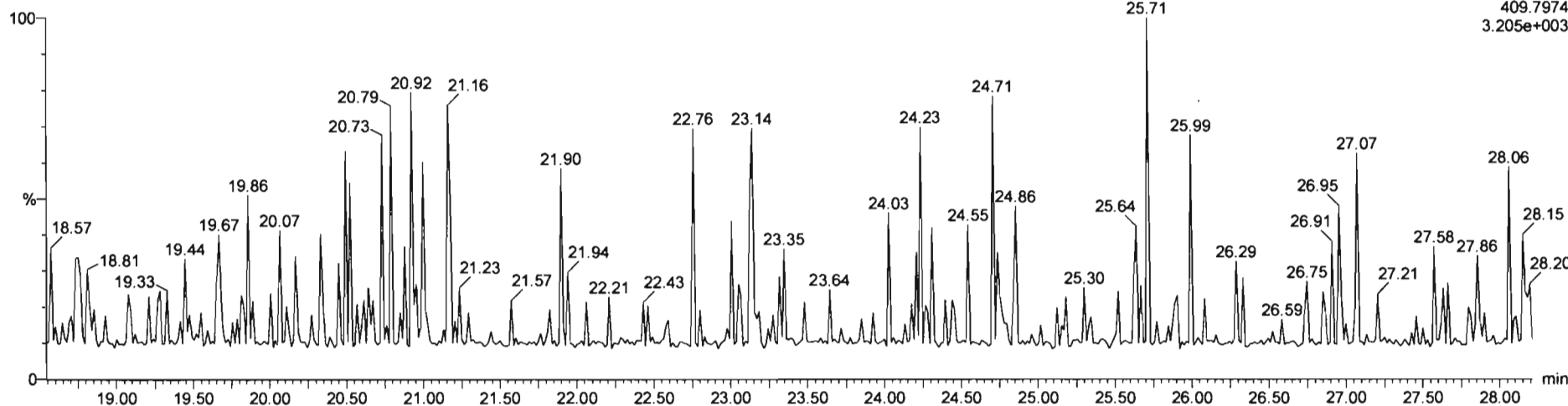


201020R1_6



DPE6

201020R1_6



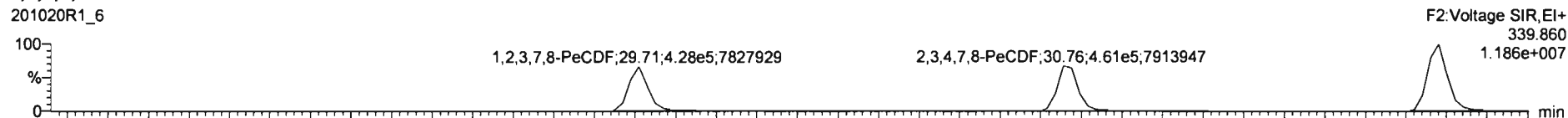
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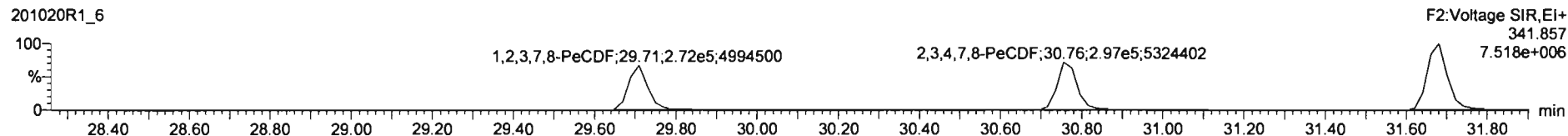
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1,2,3,7,8-PeCDF

201020R1_6

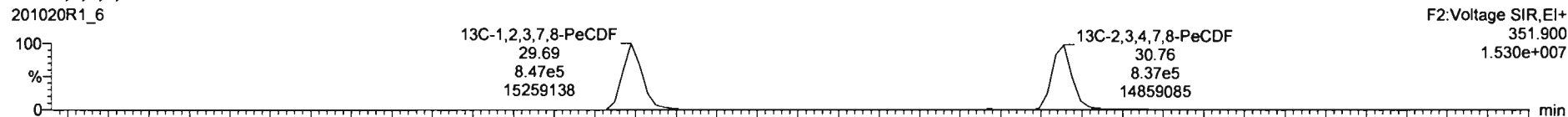


201020R1_6

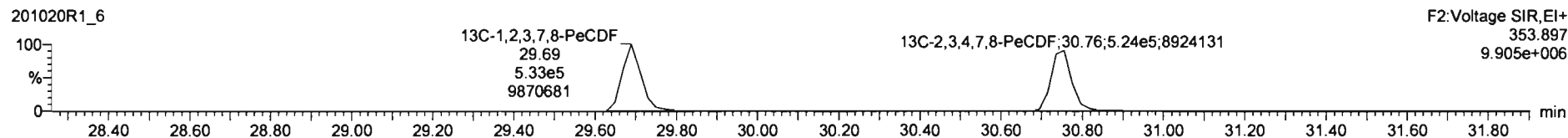


13C-1,2,3,7,8-PeCDF

201020R1_6

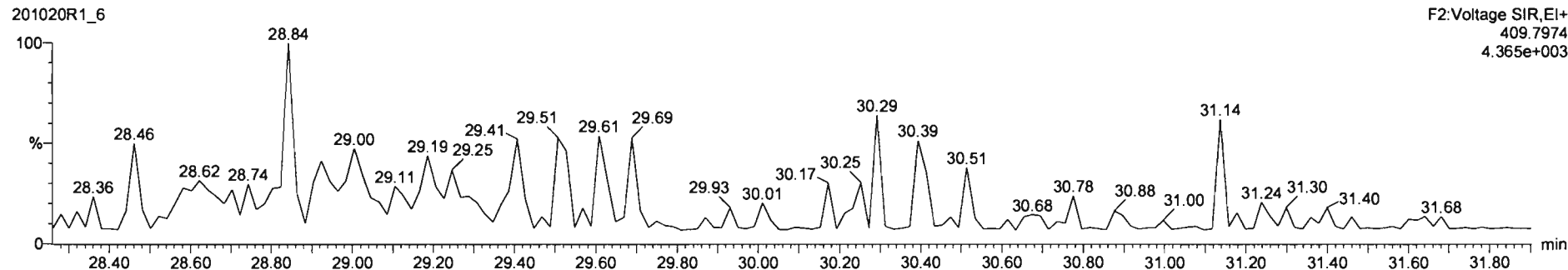


201020R1_6



DPE2

201020R1_6

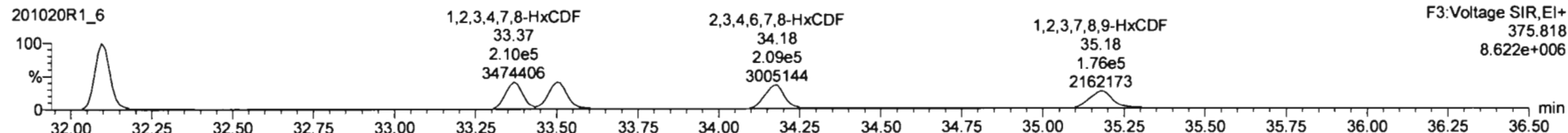
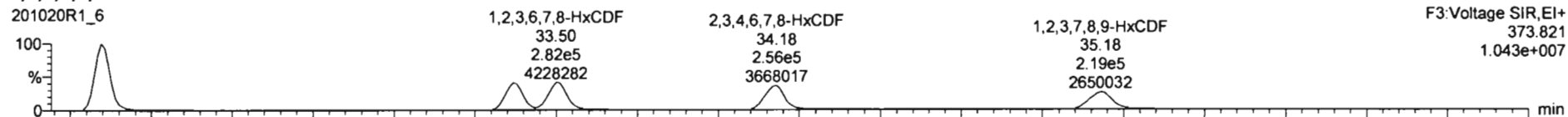


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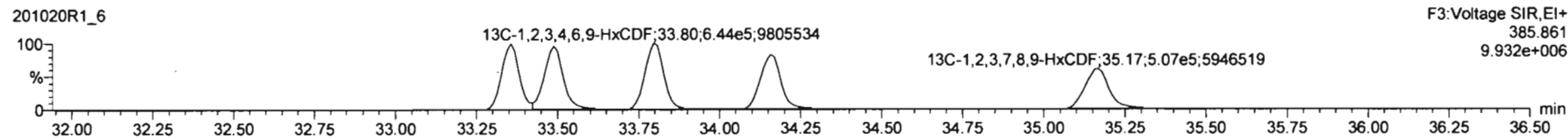
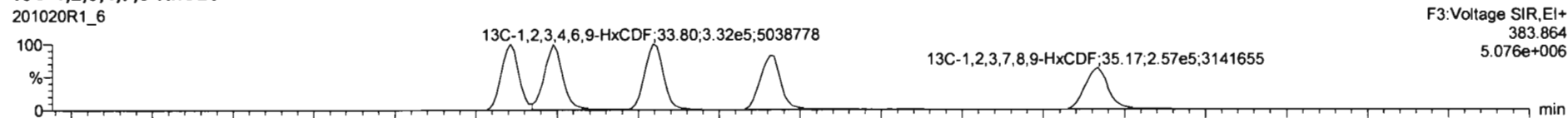
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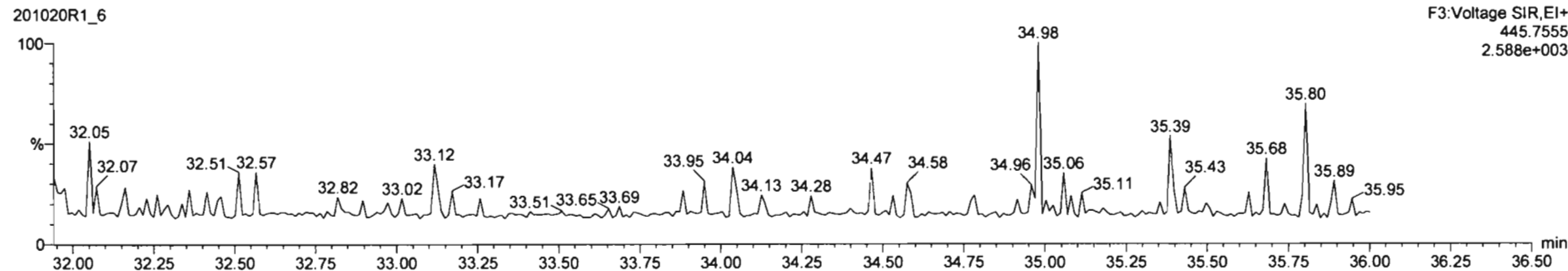
1,2,3,4,7,8-HxCDF



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



DPE3

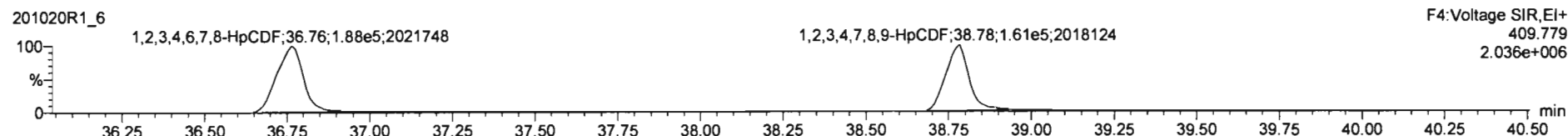
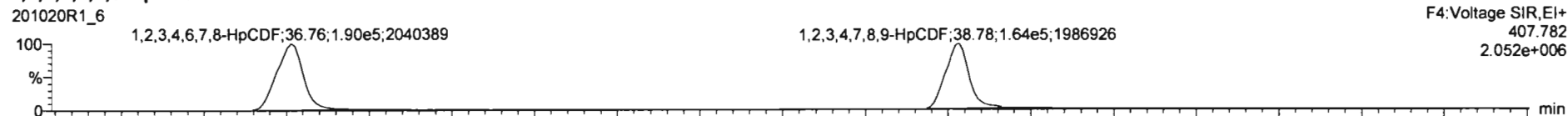


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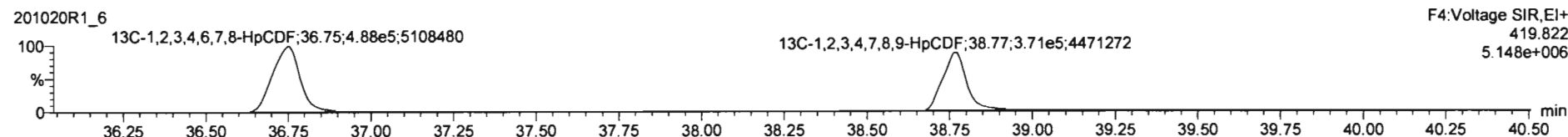
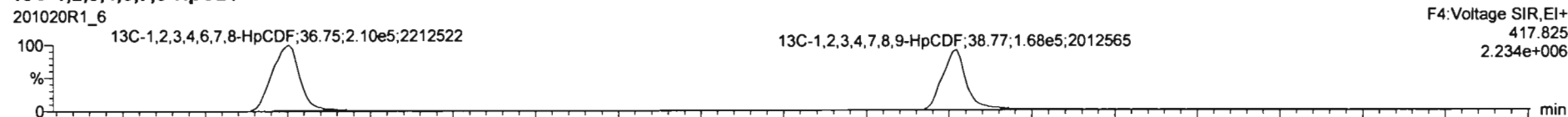
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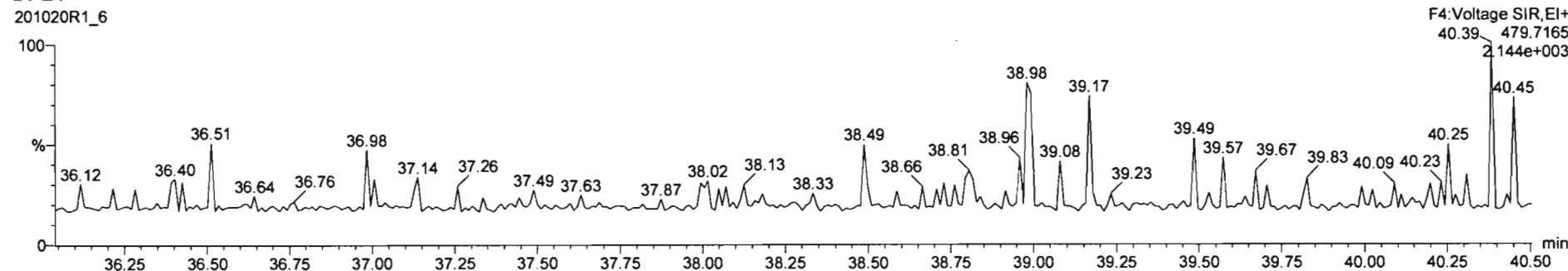
1,2,3,4,6,7,8-HpCDF



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



DPE4



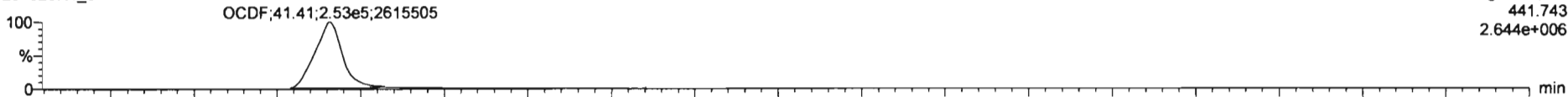
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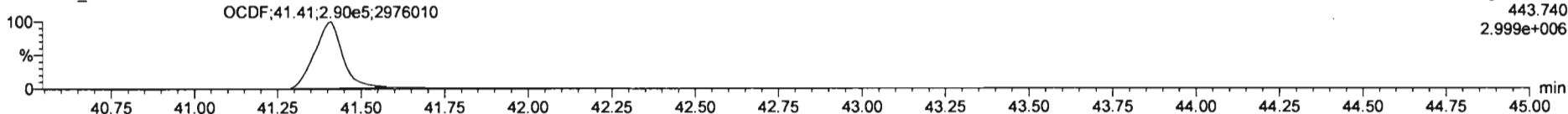
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OCDF

201020R1_6

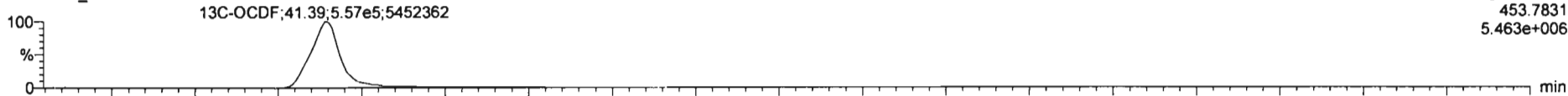


201020R1_6

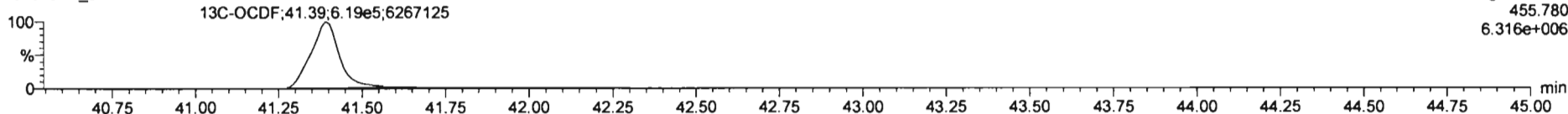


13C-OCDF

201020R1_6

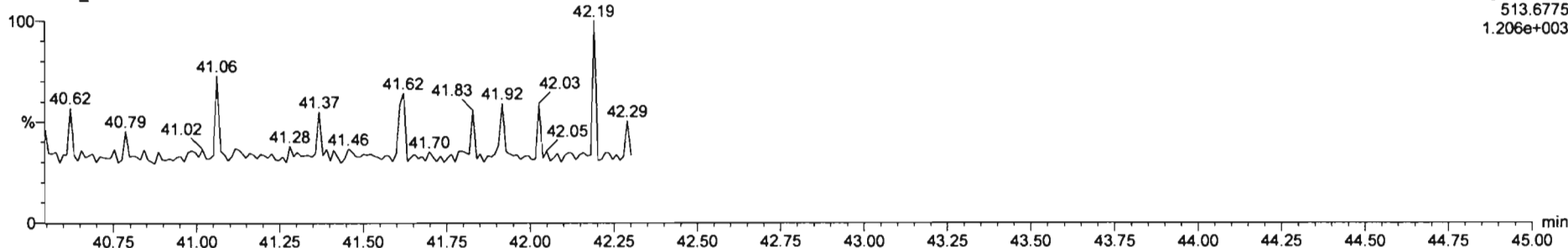


201020R1_6



DPE5

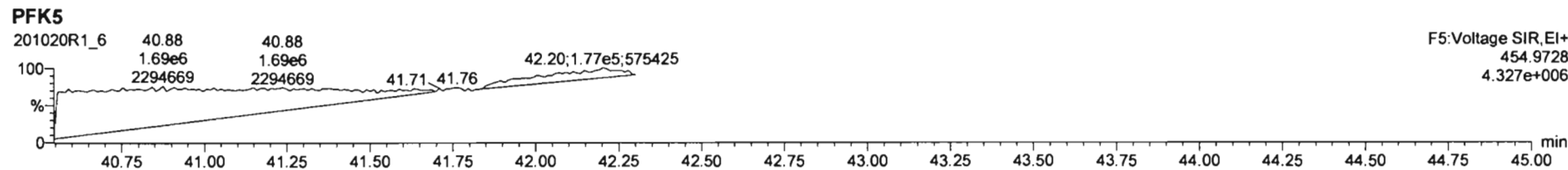
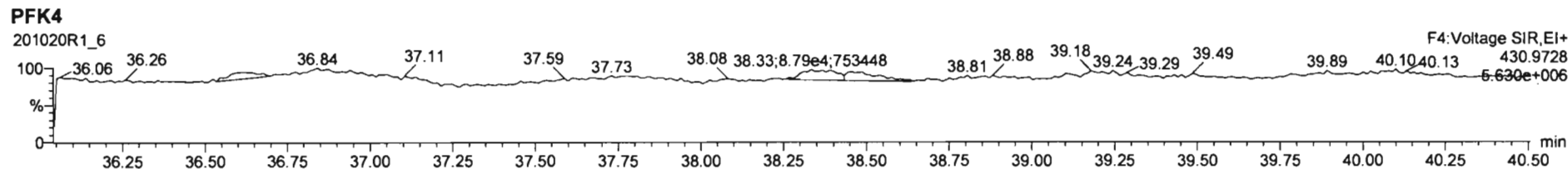
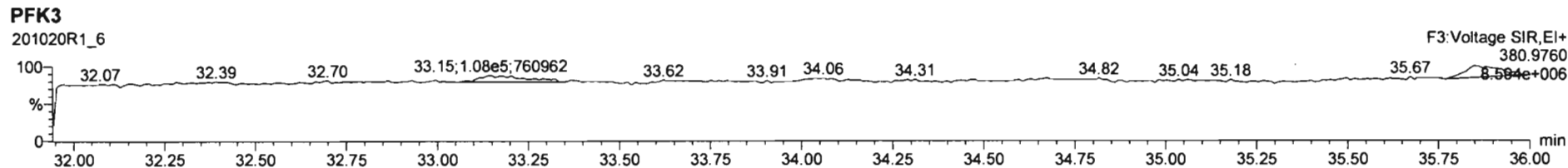
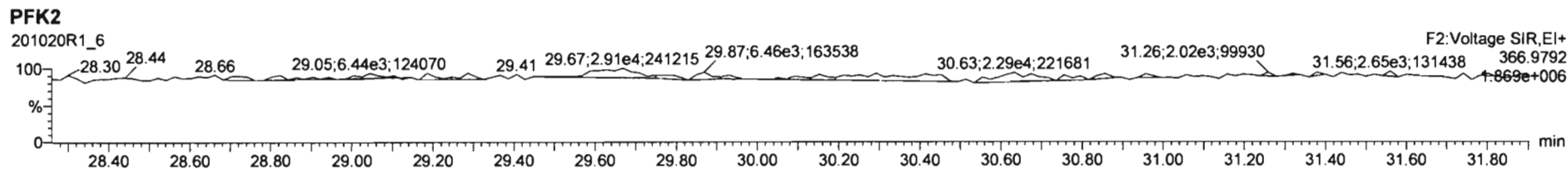
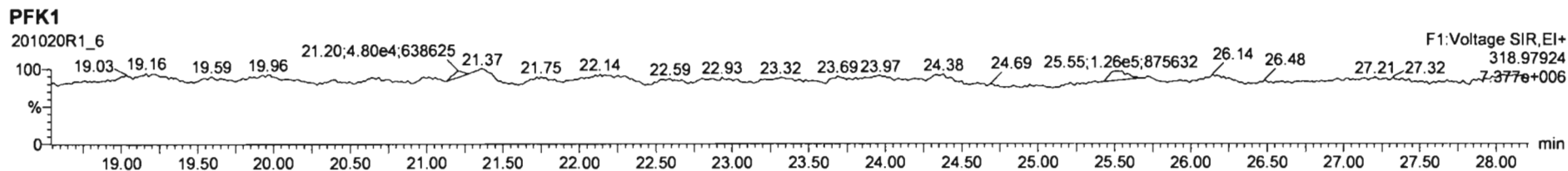
201020R1_6



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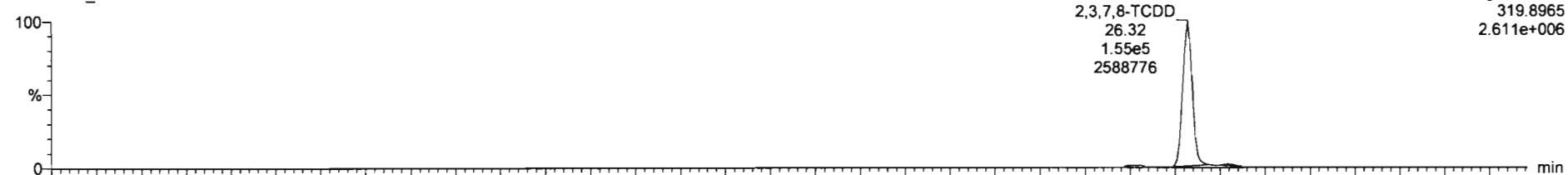
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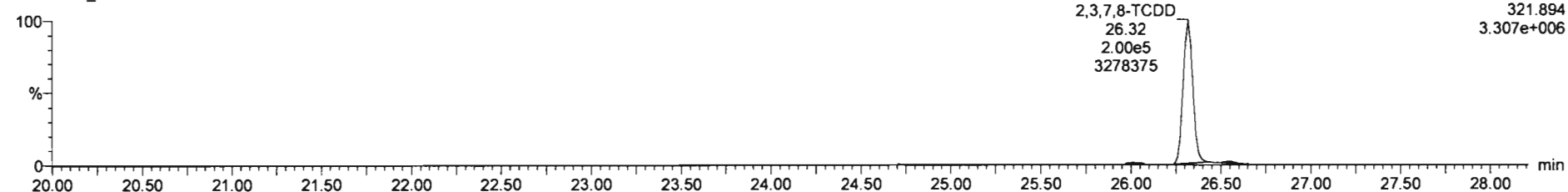
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2,3,7,8-TCDD

201020R1_4

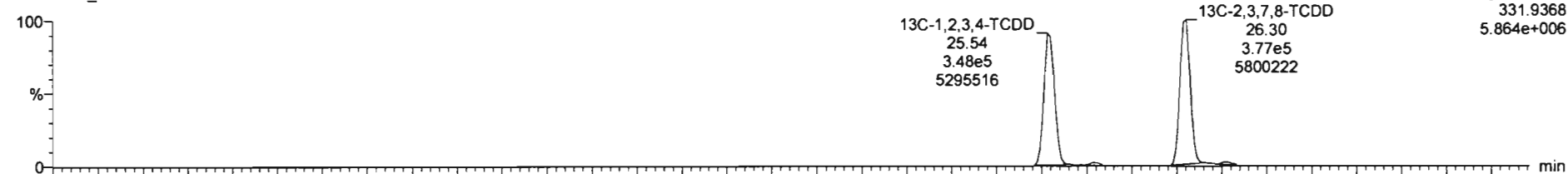


201020R1_4

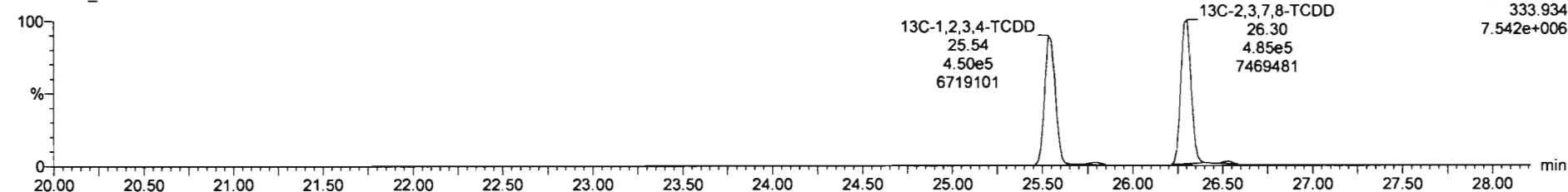


13C-2,3,7,8-TCDD

201020R1_4



201020R1_4



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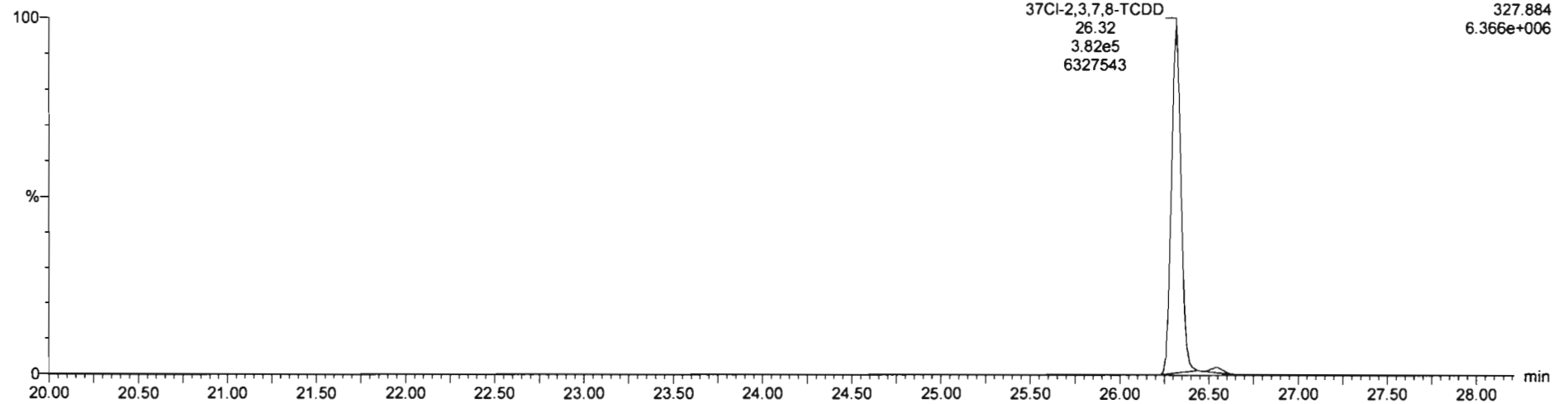
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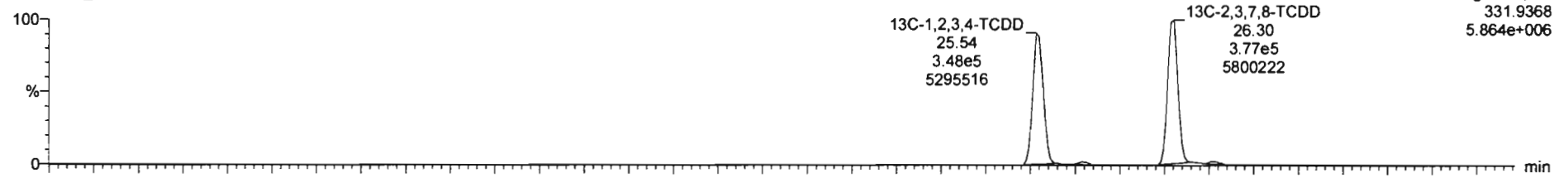
37Cl-2,3,7,8-TCDD

201020R1_4

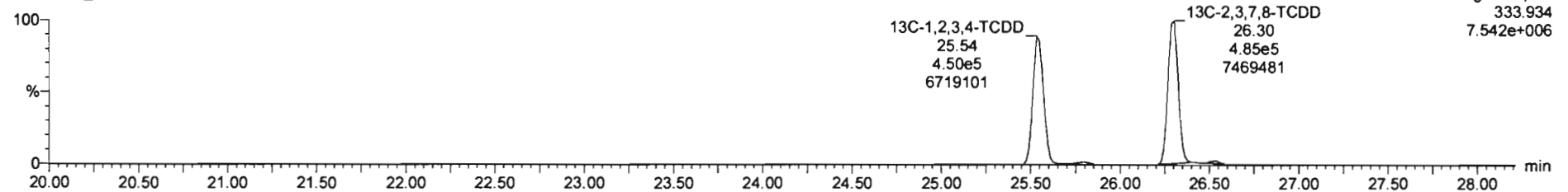


13C-1,2,3,4-TCDD

201020R1_4



201020R1_4



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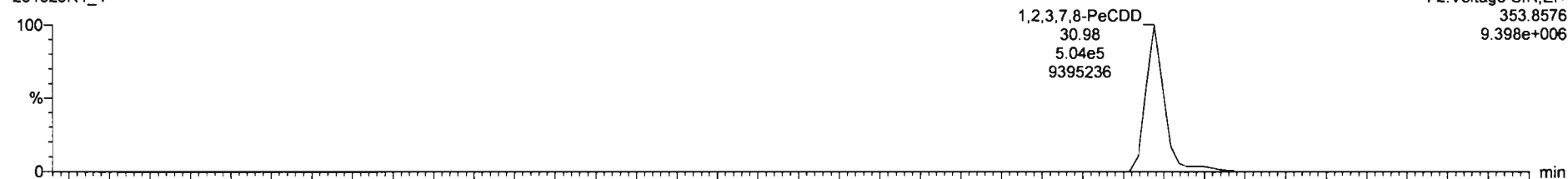
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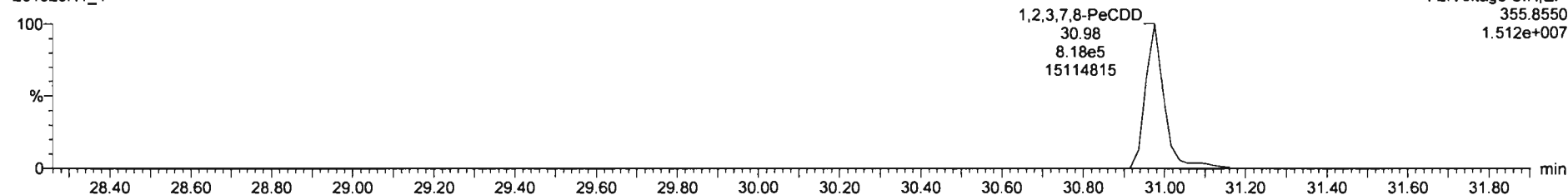
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1,2,3,7,8-PeCDD

201020R1_4

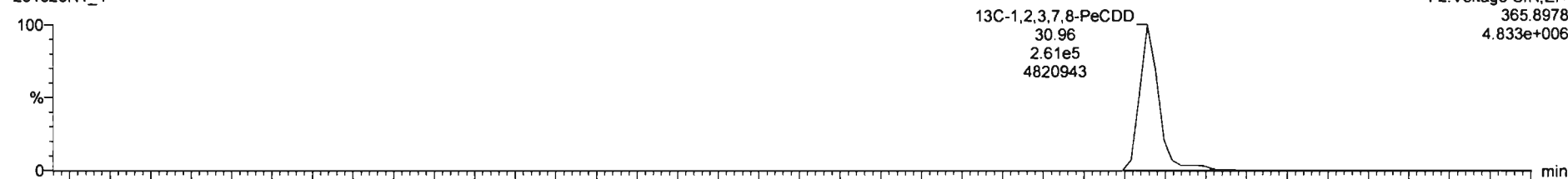


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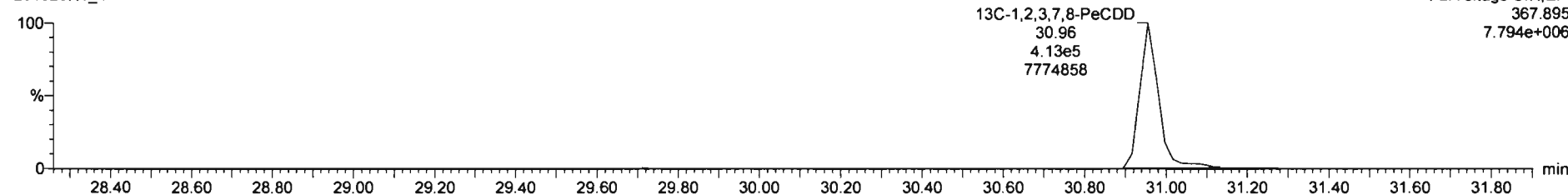


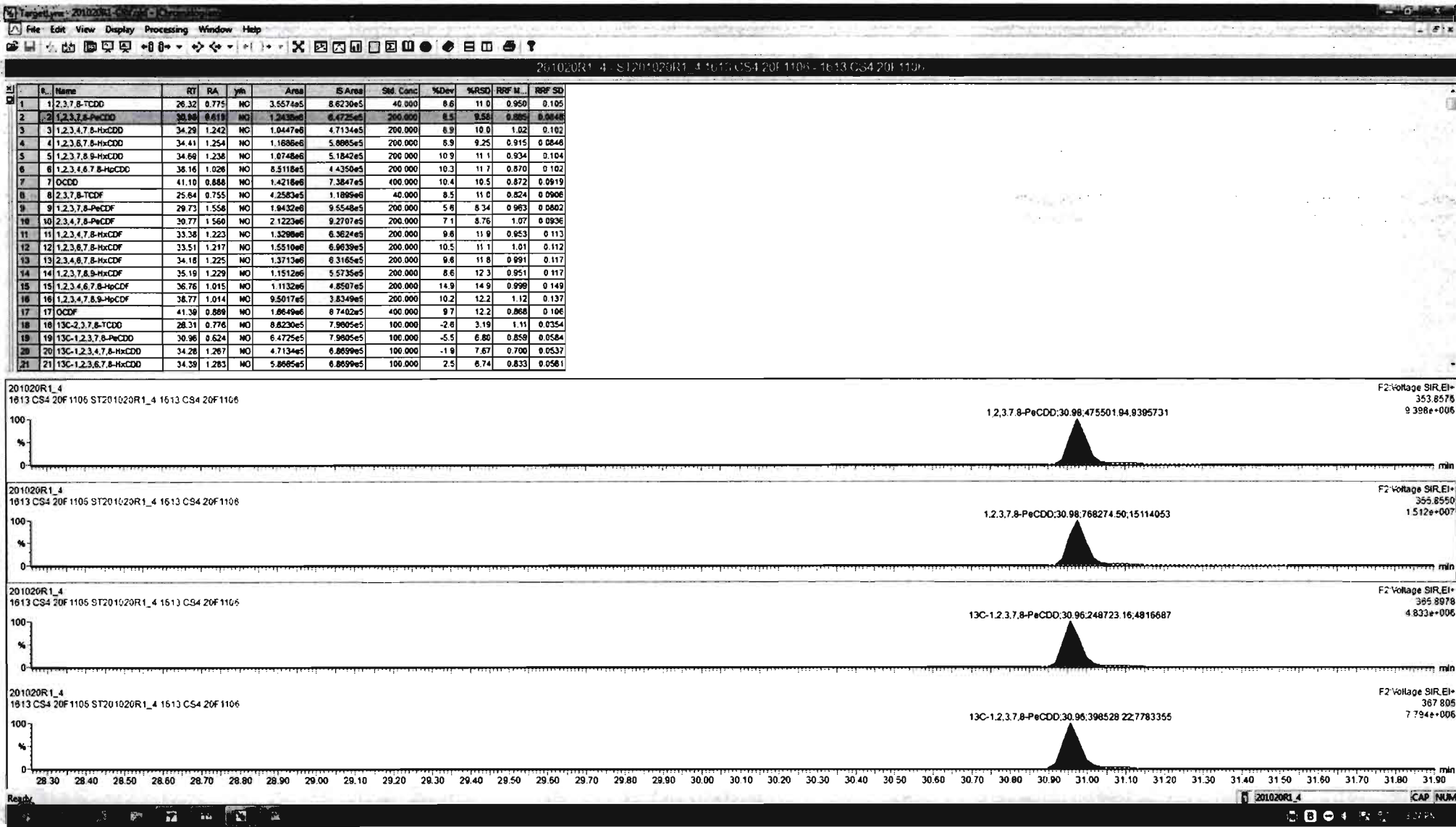
13C-1,2,3,7,8-PeCDD

201020R1_4



201020R1_4





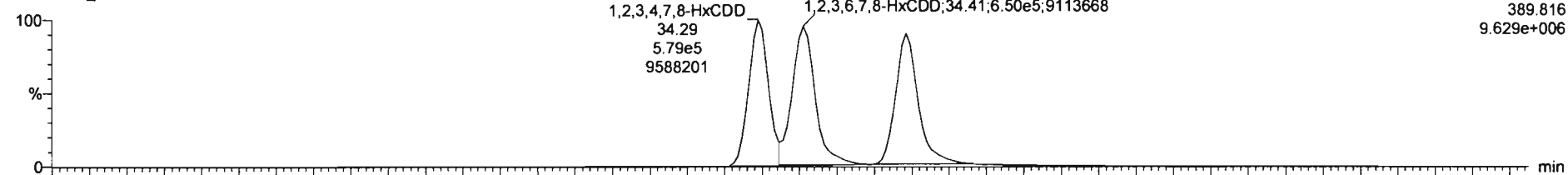
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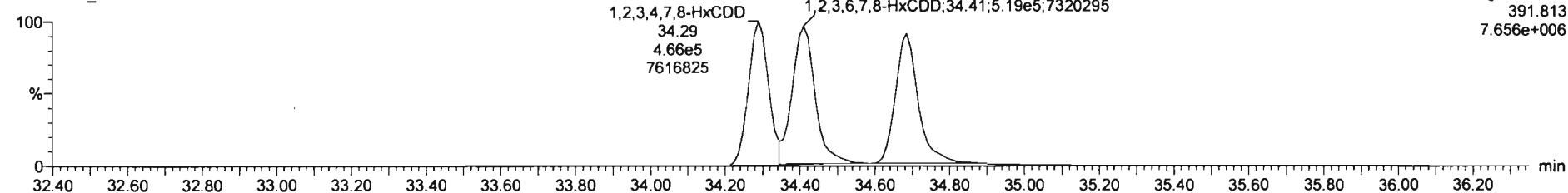
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1,2,3,4,7,8-HxCDD

201020R1_4

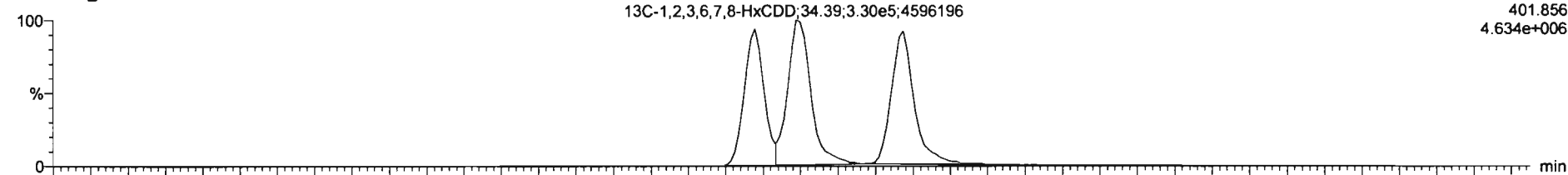


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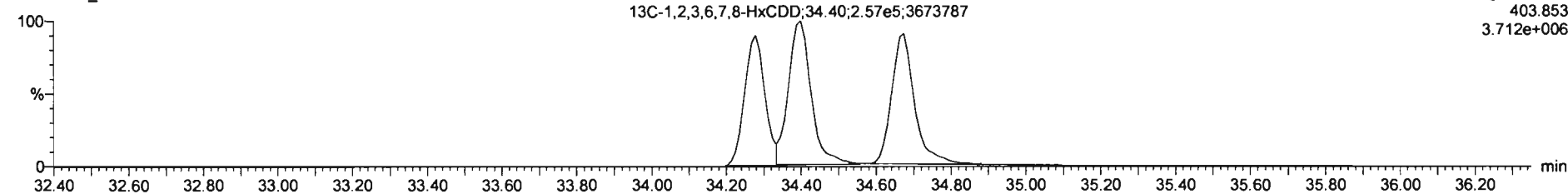


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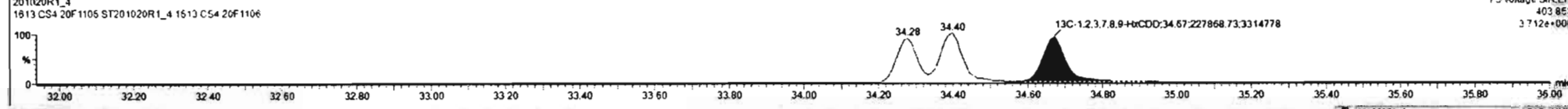
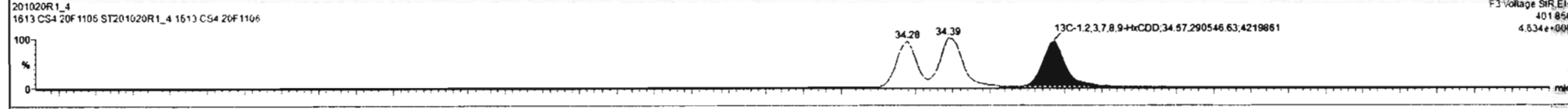
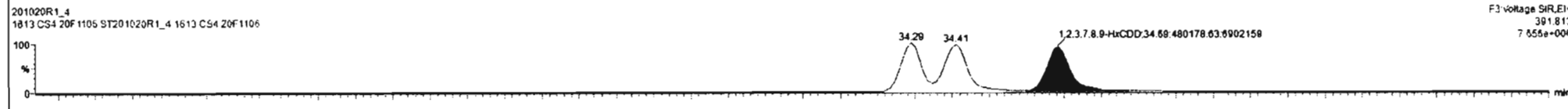
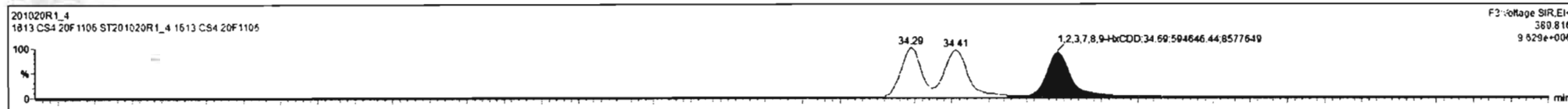
201020R1_4



201020R1_4



#	Name	RT	RA	yth	Area	IS Area	Std. Conc.	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.32	0.775	NO	3.5574e5	8.6230e5	40.000	8.6	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.98	0.619	NO	1.2438e6	6.4725e5	200.000	8.5	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.29	1.242	NO	1.0447e6	4.7134e5	200.000	8.9	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.254	NO	1.1698e6	5.8985e5	200.000	8.9	9.25	0.915	0.0848
5	1,2,3,7,8,9-HxCDD	34.89	1.229	NO	5.8748e5	5.1824e5	200.000	10.8	11.1	0.934	0.1884
6	1,2,3,4,6,7,8-HpCDD	38.16	1.026	NO	8.5118e5	4.4350e5	200.000	10.3	11.7	0.870	0.102
7	OCDD	41.10	0.888	NO	1.4218e5	7.3847e5	400.000	10.4	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.84	0.755	NO	4.2583e5	1.1869e6	40.000	8.5	11.0	0.824	0.0908
9	1,2,3,7,8-PeCDF	29.73	1.556	NO	1.9432e6	9.5548e5	200.000	5.6	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.560	NO	2.1223e6	9.2707e5	200.000	7.1	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.38	1.223	NO	1.3298e6	6.3624e5	200.000	9.8	11.9	0.953	0.112
12	1,2,3,6,7,8-HxCDF	33.51	1.217	NO	1.5510e6	6.9639e5	200.000	10.5	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.225	NO	1.3713e6	6.3165e5	200.000	9.6	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.19	1.229	NO	1.1512e6	5.5735e5	200.000	8.6	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.015	NO	1.1132e6	4.8507e5	200.000	14.9	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.014	NO	9.5017e5	3.8349e5	200.000	10.2	12.2	1.12	0.137
17	OCDF	41.39	0.889	NO	1.8649e6	8.7402e5	400.000	9.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	28.31	0.776	NO	8.8230e5	7.9905e5	100.000	-2.6	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.98	0.624	NO	6.4725e5	7.9905e5	100.000	-5.5	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.287	NO	4.7134e5	6.8699e5	100.000	-1.9	7.87	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.283	NO	5.8985e5	6.8699e5	100.000	2.5	8.74	0.833	0.0561



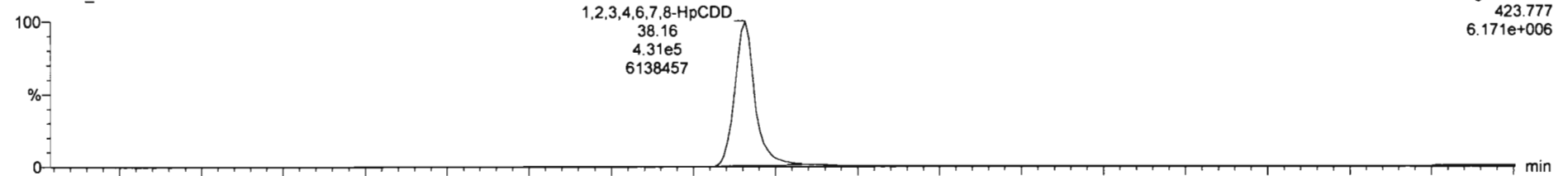
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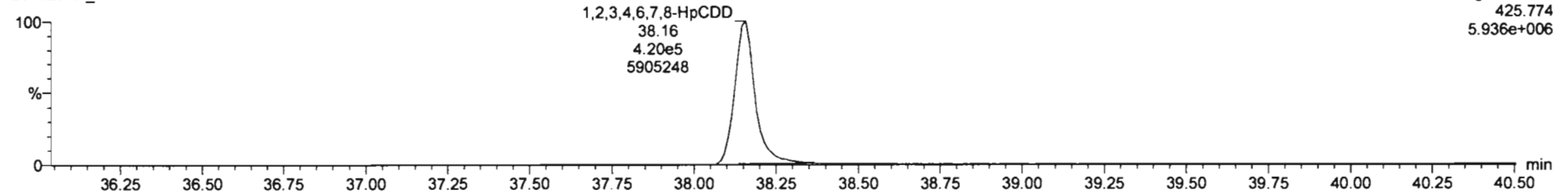
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1,2,3,4,6,7,8-HpCDD

201020R1_4

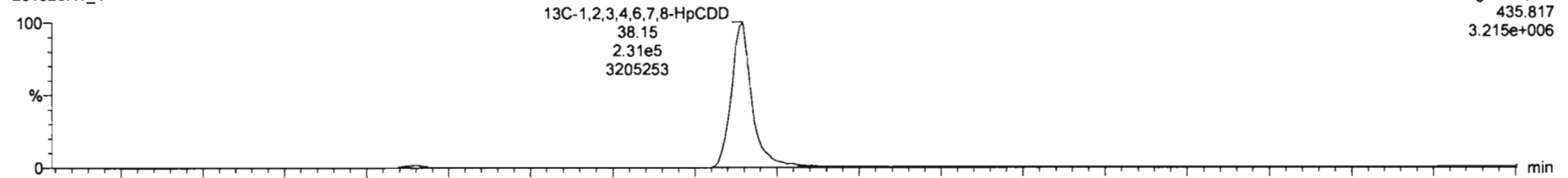


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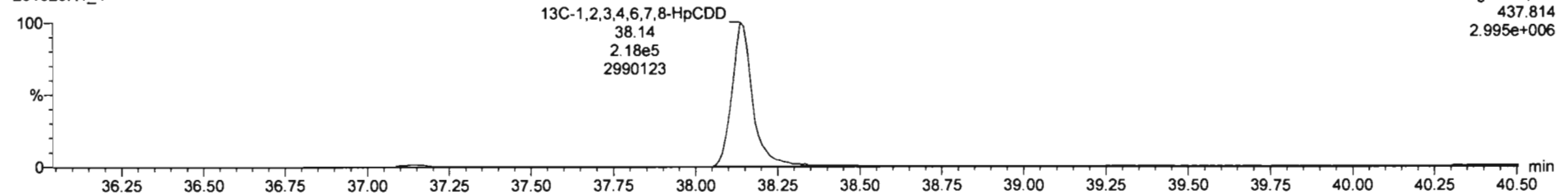


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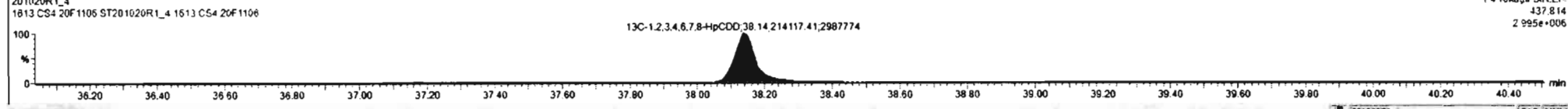
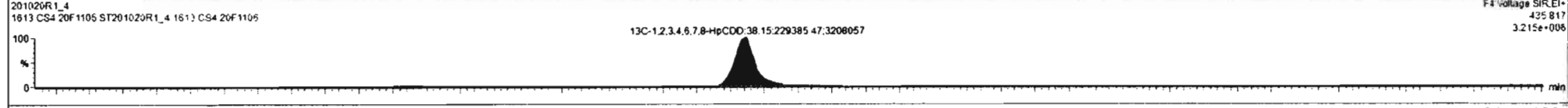
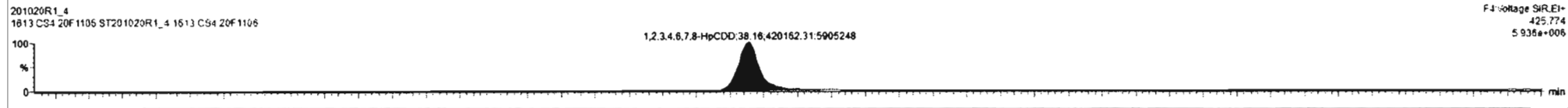
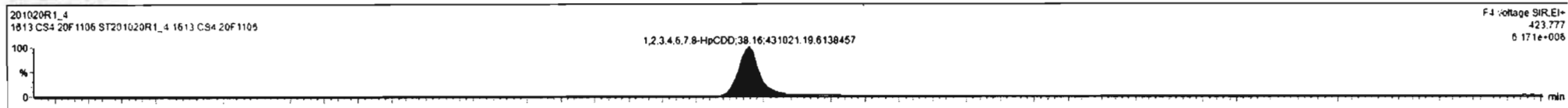
201020R1_4



201020R1_4



#	Name	RT	RA	Yth	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.32	0.775	NO	3.5574e5	8.6230e5	40.000	8.8	11.0	0.950	0.185
2	1,2,3,7,8-PeCDD	30.98	0.619	NO	1.2438e6	6.4725e5	200.000	8.5	9.58	0.585	0.0648
3	1,2,3,4,7,8-HxCDD	34.29	1.242	NO	1.0447e6	4.7134e5	200.000	8.9	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.41	1.254	NO	1.1898e6	5.8685e5	200.000	8.9	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.63	1.238	NO	1.0748e6	5.1842e5	200.000	10.9	11.1	0.934	0.164
6	1,2,3,4,6,7,8-HpCDD	38.18	1.628	NO	8.5118e5	4.4390e5	200.000	10.3	11.7	0.878	0.182
7	OCDD	41.10	8.888	NO	1.4218e6	7.3847e5	400.000	10.4	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.84	0.755	NO	4.2583e5	1.1899e6	40.000	8.5	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.73	1.556	NO	1.9432e6	9.5548e5	200.000	5.8	8.34	0.983	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.560	NO	2.1223e6	9.2707e5	200.000	7.1	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.38	1.223	NO	1.3298e6	6.3824e5	200.000	9.8	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.51	1.217	NO	1.5510e6	8.9639e5	200.000	10.5	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.18	1.225	NO	1.3713e6	6.3165e5	200.000	9.8	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.19	1.229	NO	1.1512e6	5.5735e5	200.000	8.6	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.015	NO	1.1132e6	4.8507e5	200.000	14.9	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.77	1.014	NO	9.5017e5	3.6349e5	200.000	10.2	12.2	1.12	0.137
17	OCDF	41.39	8.889	NO	1.8649e6	8.7402e5	400.000	9.7	12.2	0.868	0.106
18	13C-2,3,7,8-TCDD	26.31	0.776	NO	8.6230e5	7.9605e5	100.000	-2.6	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.96	0.624	NO	6.4725e5	7.9605e5	100.000	-5.5	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.28	1.267	NO	4.7134e5	6.8899e5	100.000	-1.9	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.283	NO	5.8685e5	6.8899e5	100.000	2.5	6.74	0.833	0.0581



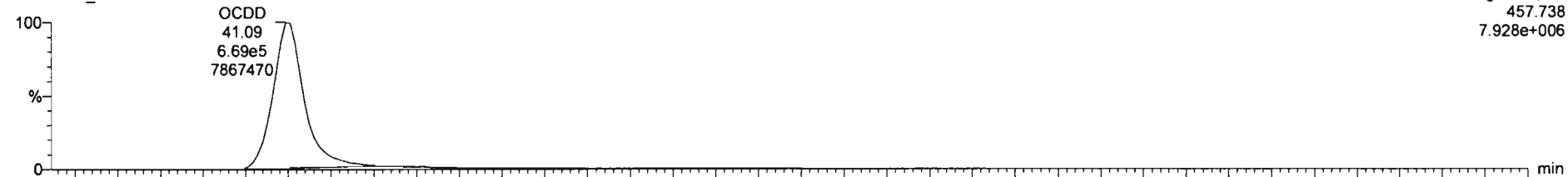
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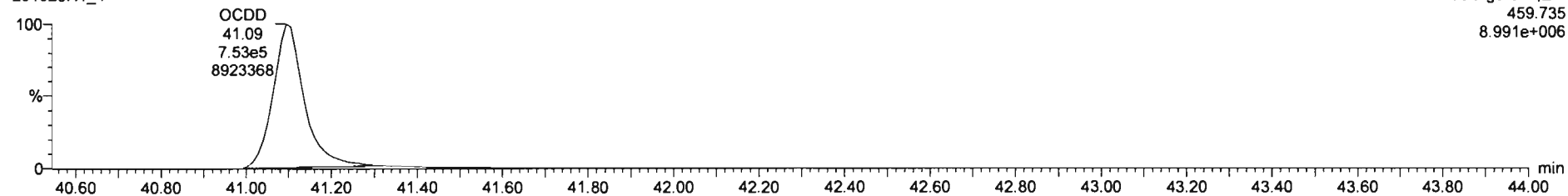
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OCDD

201020R1_4

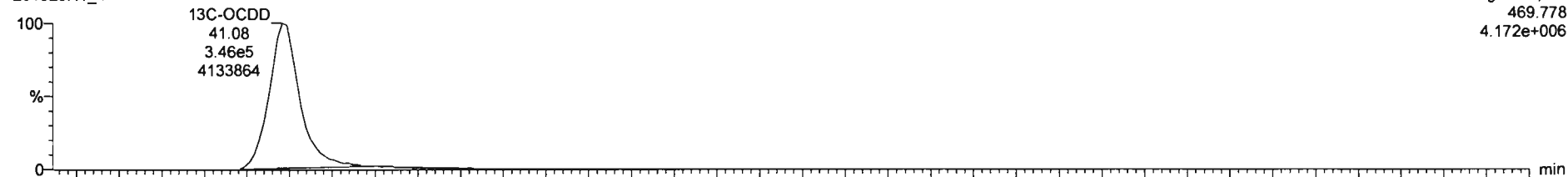


201020R1_4

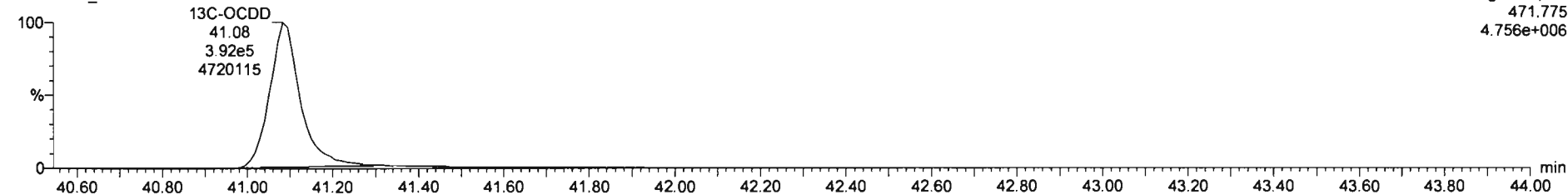


13C-OCDD

201020R1_4



201020R1_4



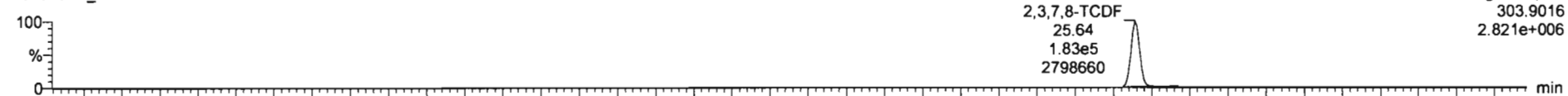
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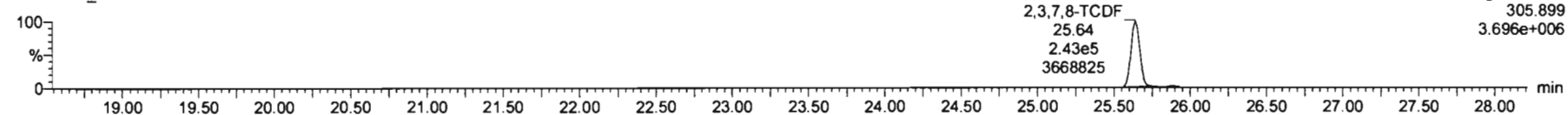
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2,3,7,8-TCDF

201020R1_4

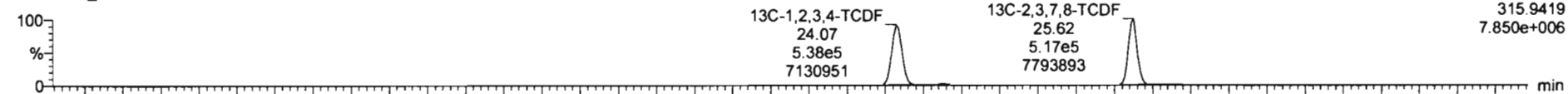


201020R1_4

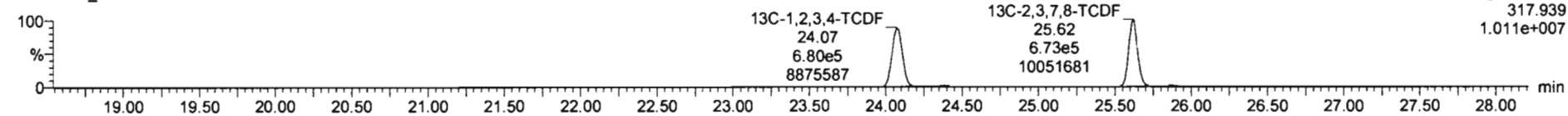


13C-2,3,7,8-TCDF

201020R1_4

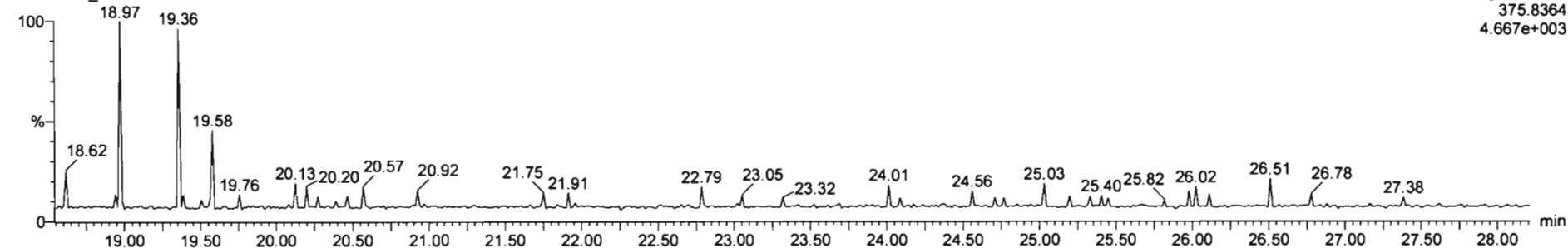


201020R1_4



DPE1

201020R1_4



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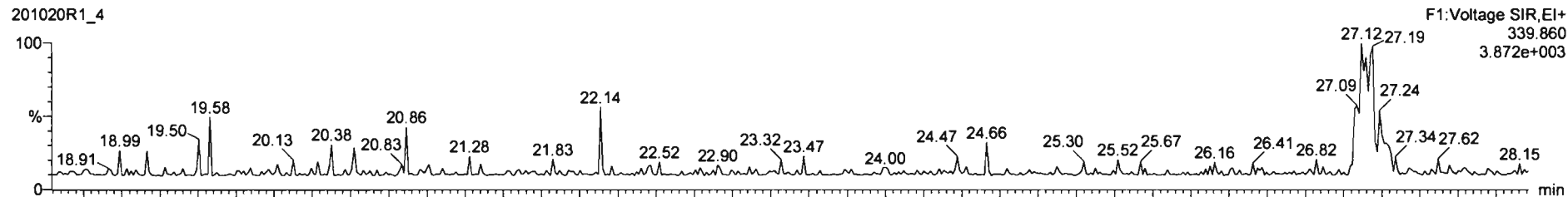
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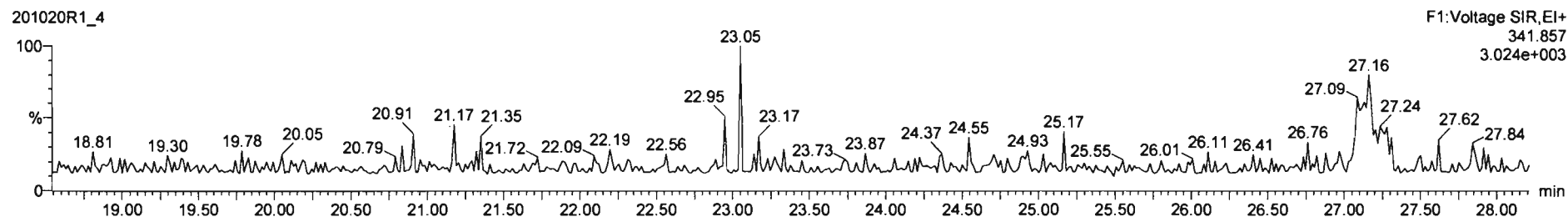
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201020R1_4

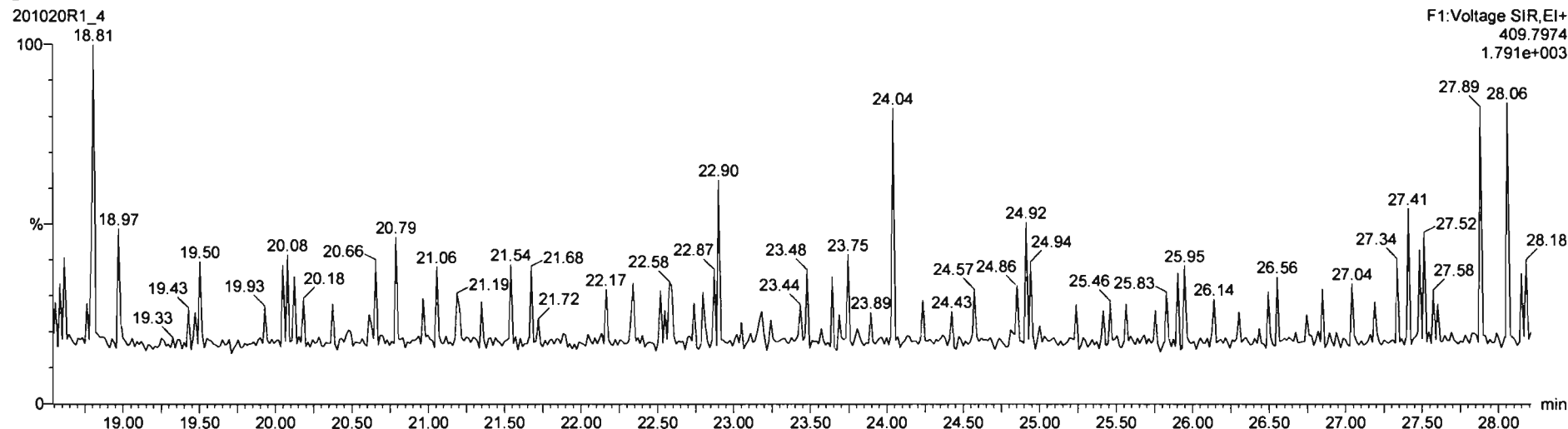


201020R1_4



DPE6

201020R1_4



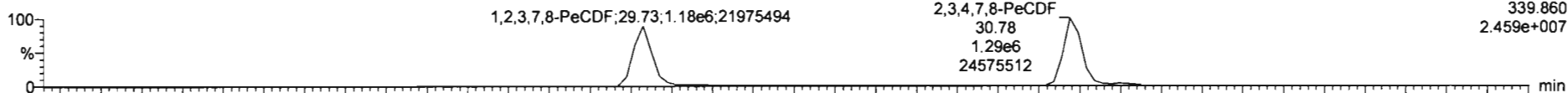
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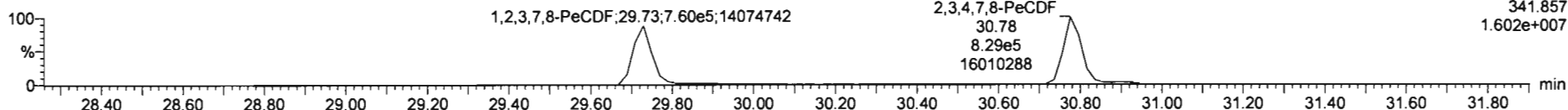
1,2,3,7,8-PeCDF

201020R1_4



F2:Voltage SIR, EI+
339.860
2.459e+007

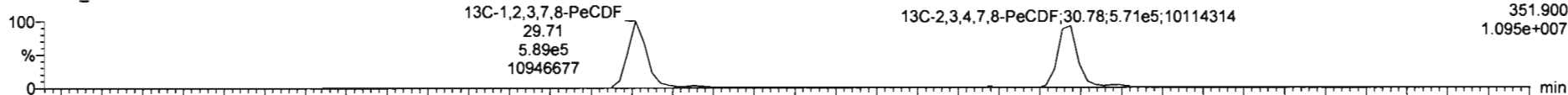
201020R1_4



F2:Voltage SIR, EI+
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1.602e+007

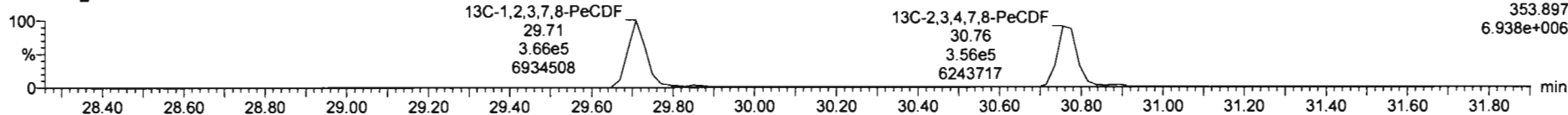
13C-1,2,3,7,8-PeCDF

201020R1_4



F2:Voltage SIR, EI+
351.900
1.095e+007

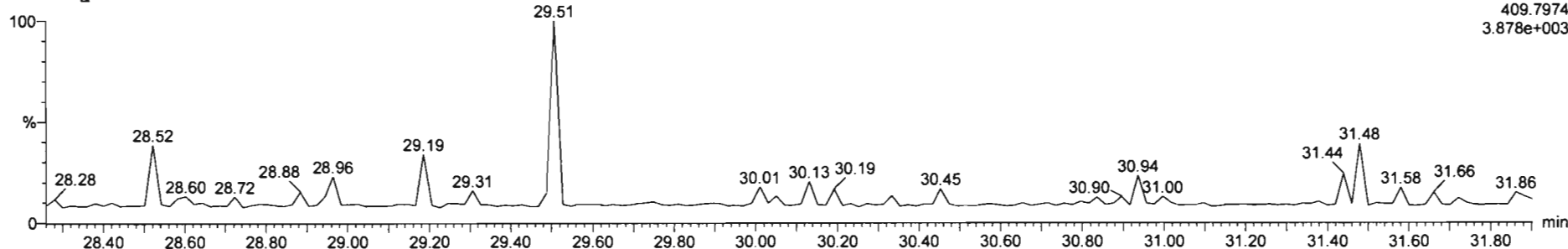
201020R1_4



F2:Voltage SIR, EI+
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DPE2

201020R1_4



F2:Voltage SIR, EI+
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3.878e+003

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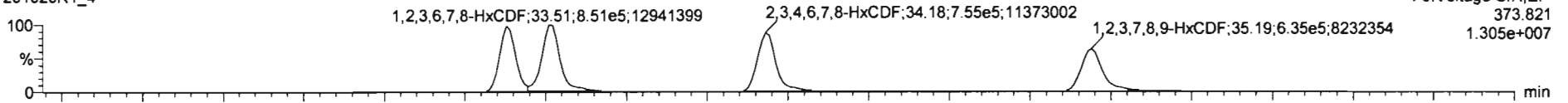
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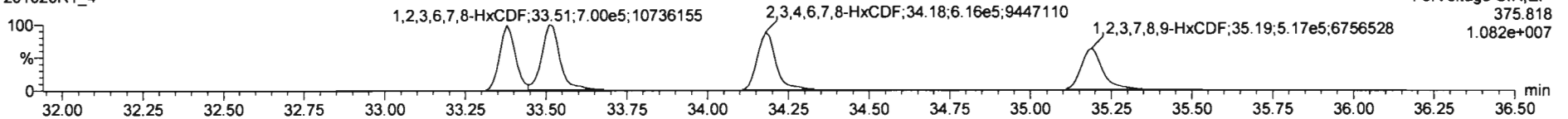
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1,2,3,4,7,8-HxCDF

201020R1_4

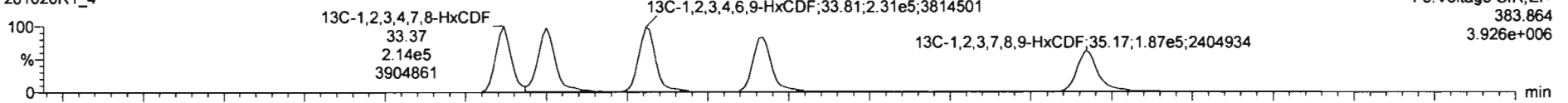


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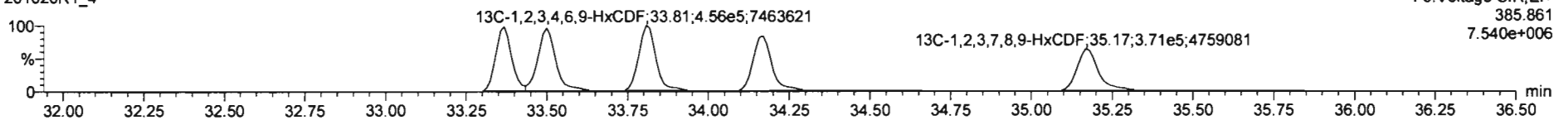


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201020R1_4

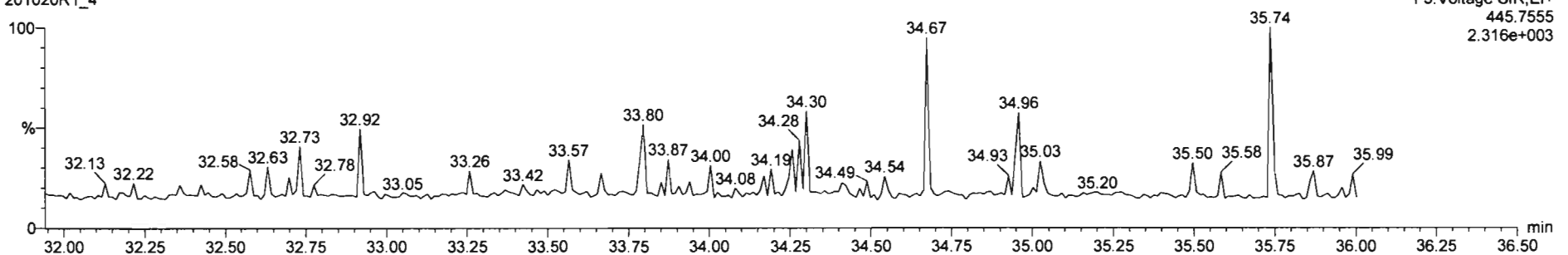


201020R1_4



DPE3

201020R1_4



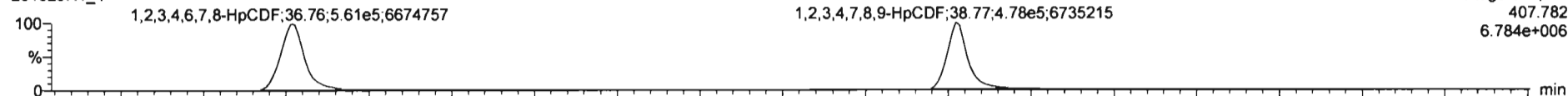
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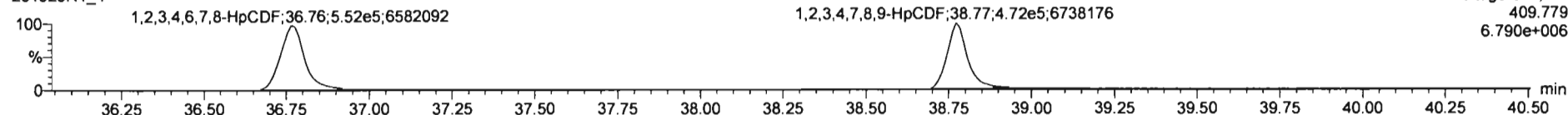
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1,2,3,4,6,7,8-HpCDF

201020R1_4

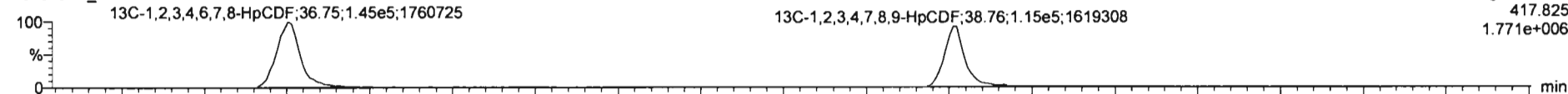


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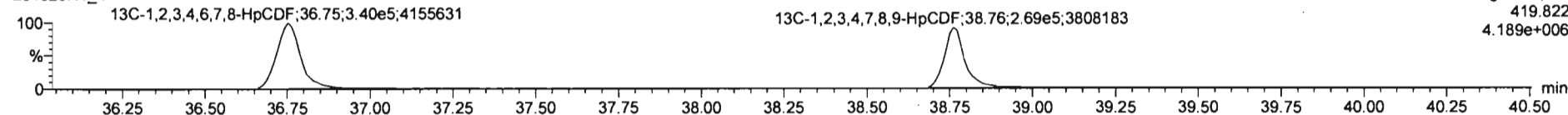


13C-1,2,3,4,6,7,8-HpCDF

201020R1_4

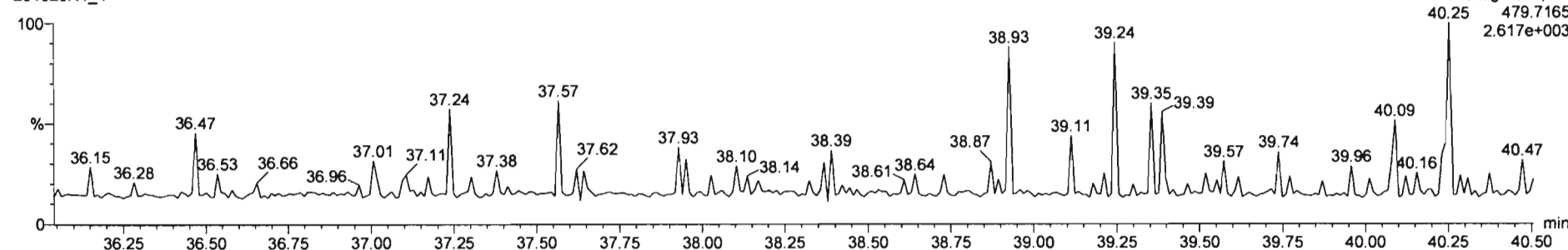


201020R1_4



DPE4

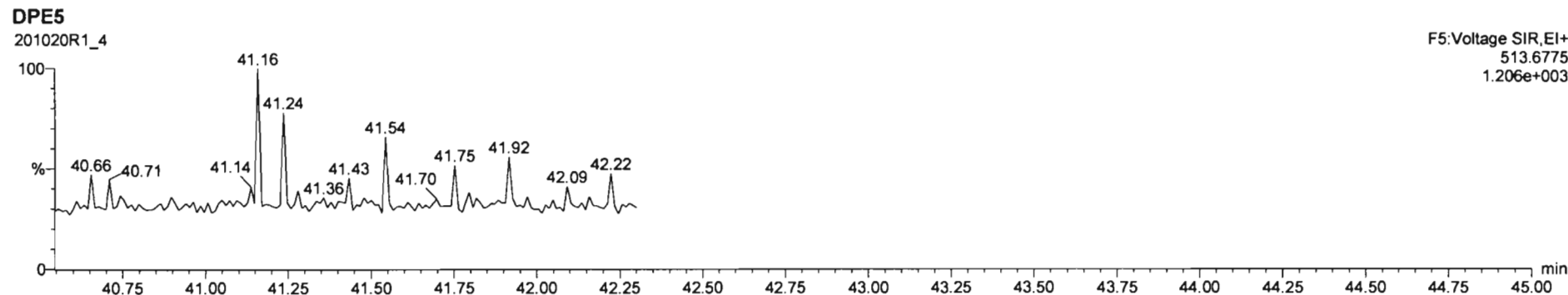
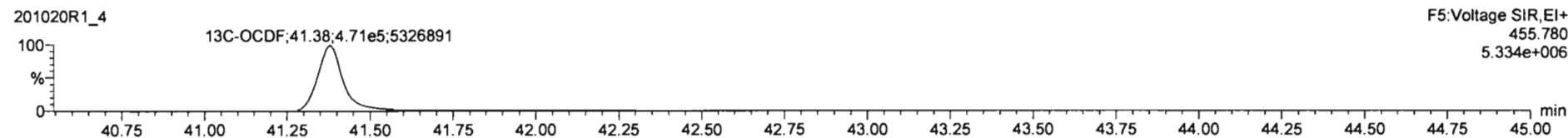
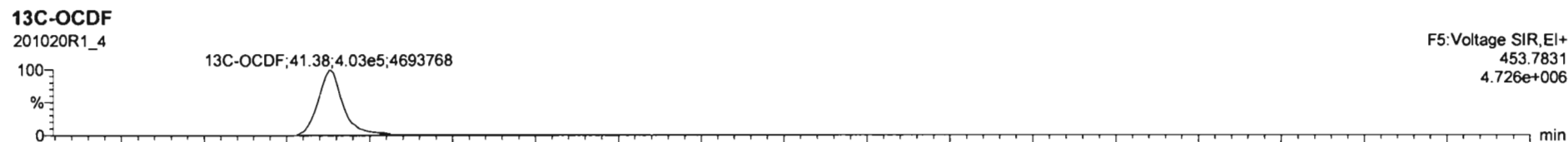
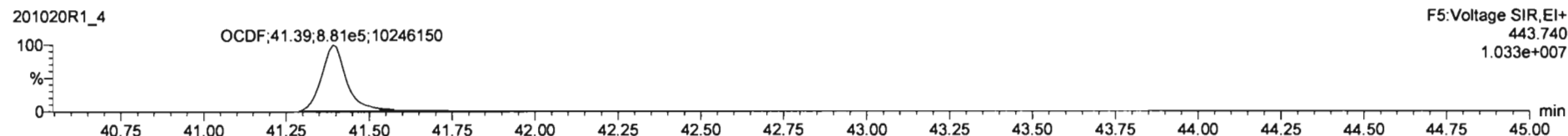
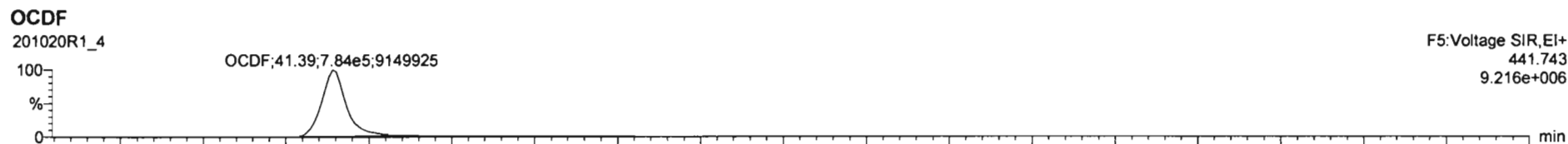
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

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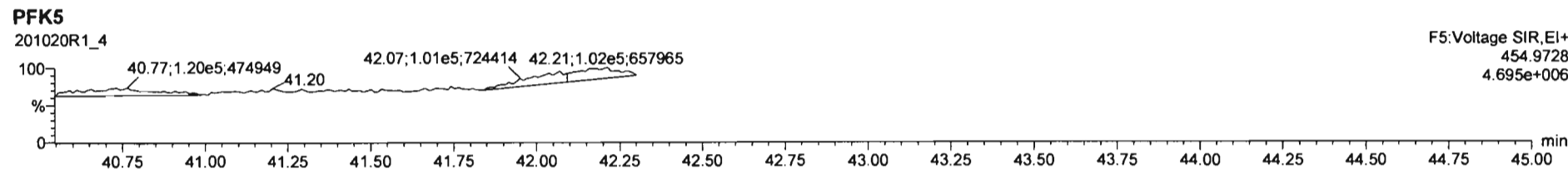
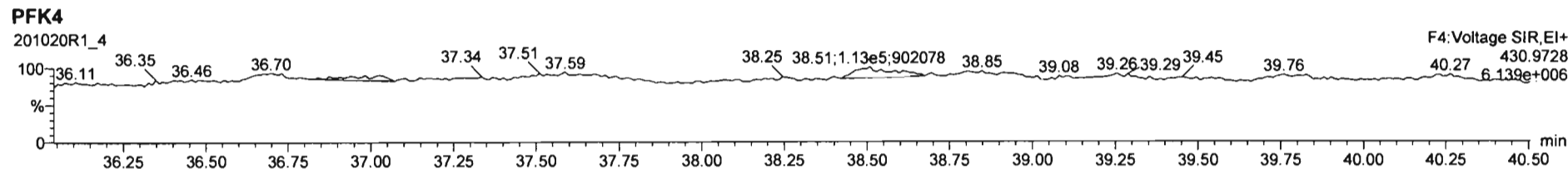
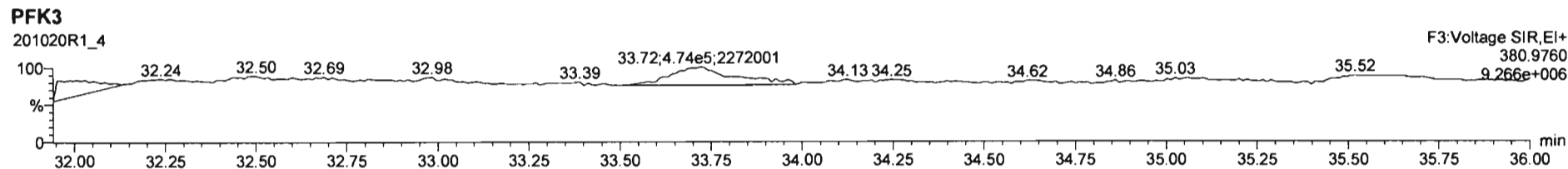
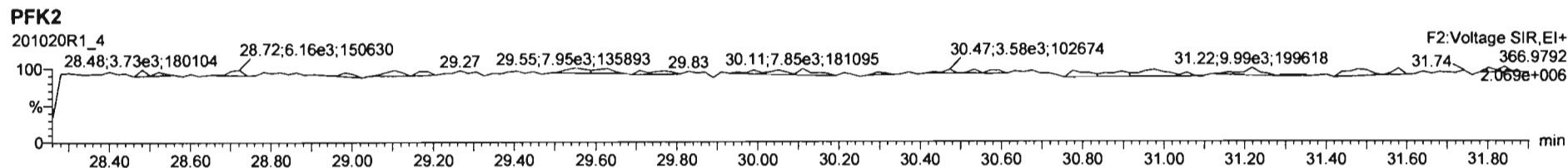
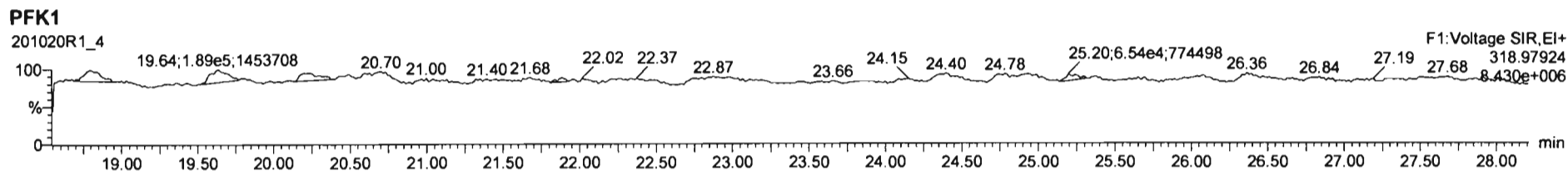


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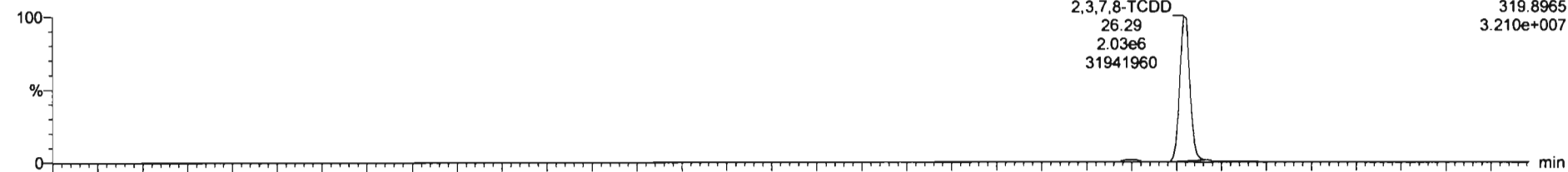
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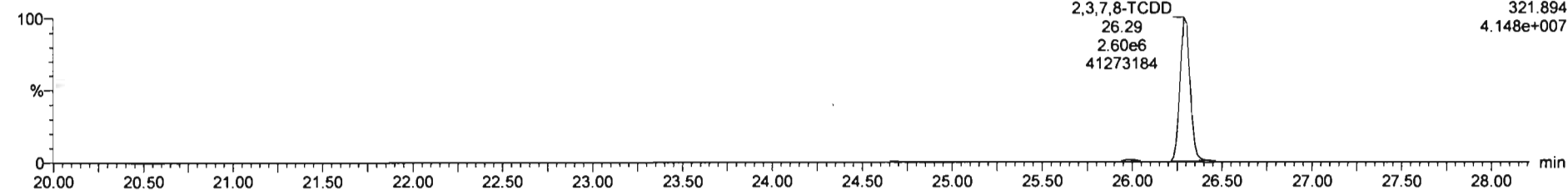
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2,3,7,8-TCDD

201020R1_5

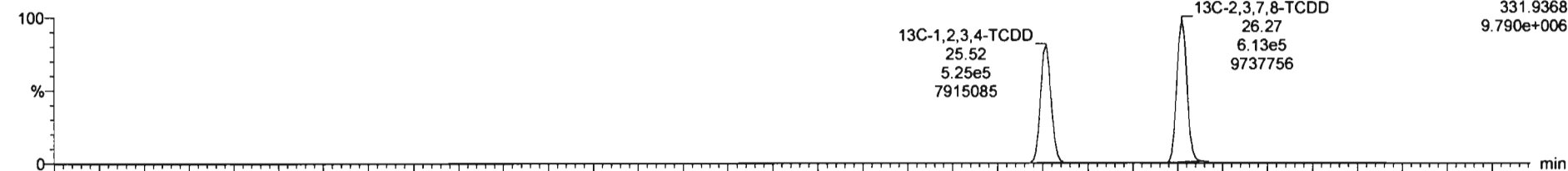


201020R1_5

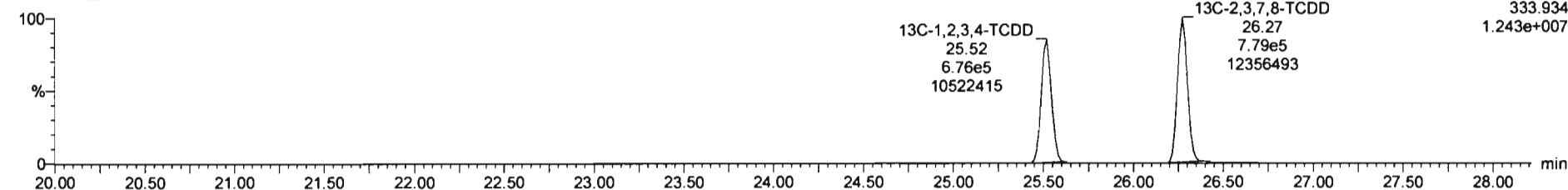


13C-2,3,7,8-TCDD

201020R1_5



201020R1_5



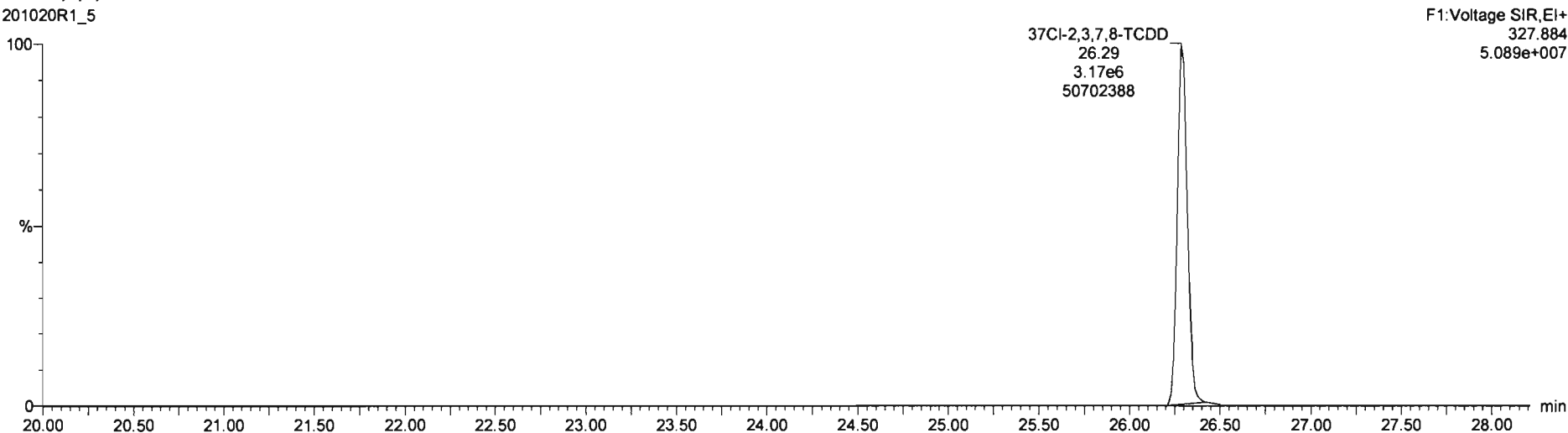
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37Cl-2,3,7,8-TCDD

201020R1_5

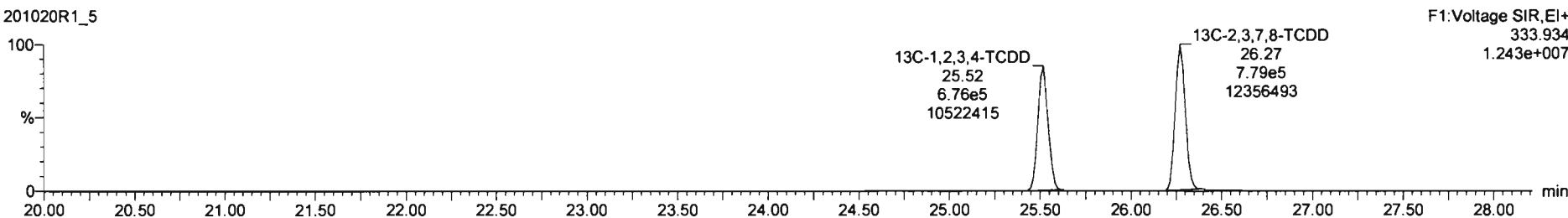


13C-1,2,3,4-TCDD

201020R1_5



201020R1_5



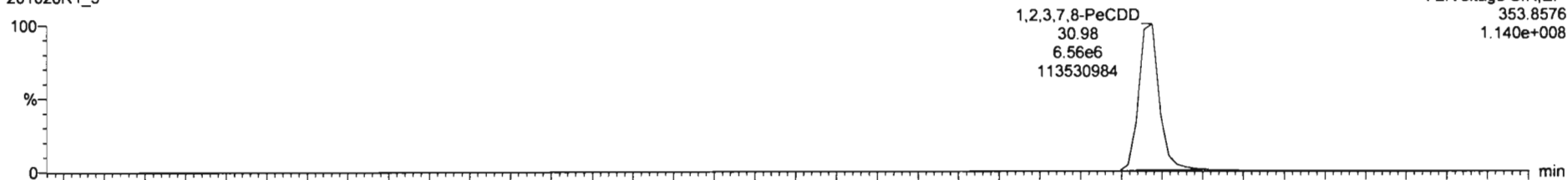
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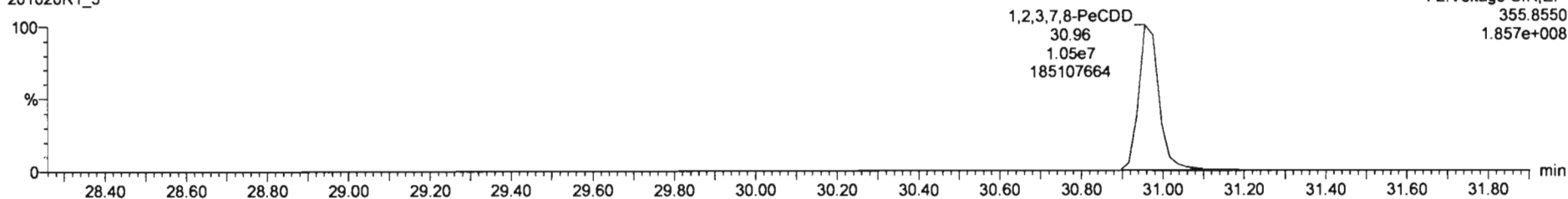
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1,2,3,7,8-PeCDD

201020R1_5

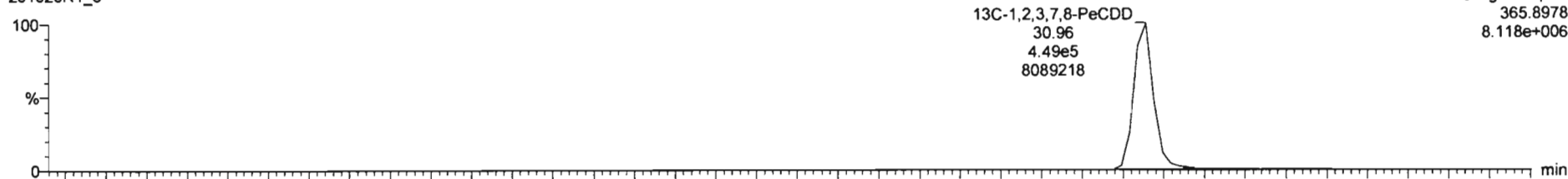


201020R1_5

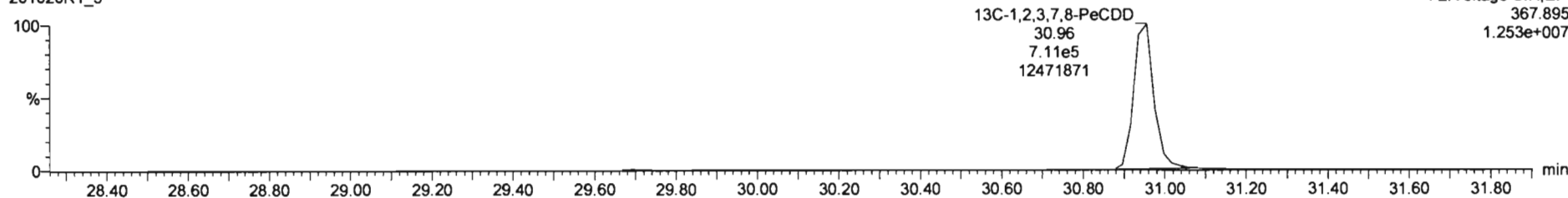


13C-1,2,3,7,8-PeCDD

201020R1_5



201020R1_5



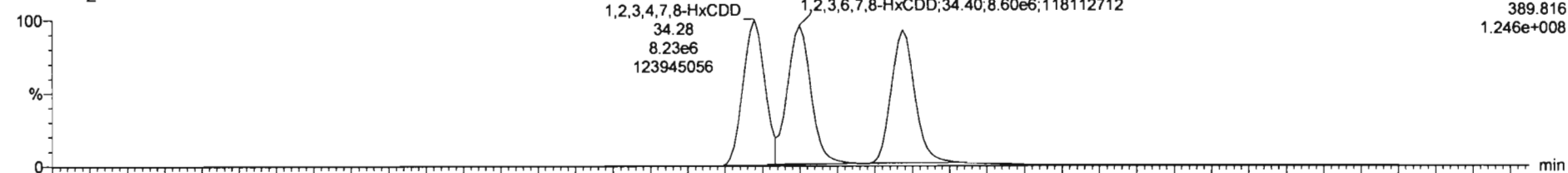
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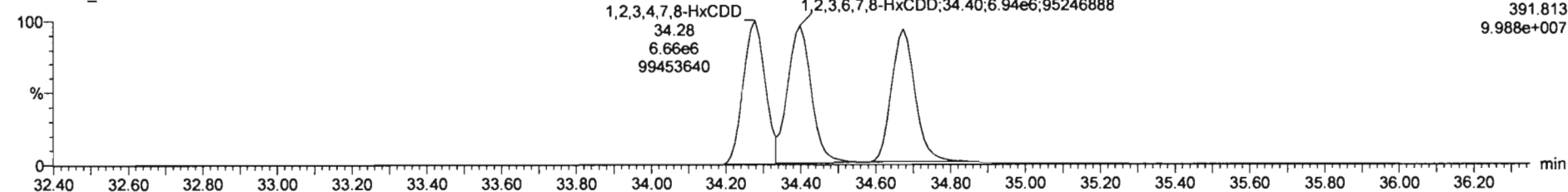
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1,2,3,4,7,8-HxCDD

201020R1_5

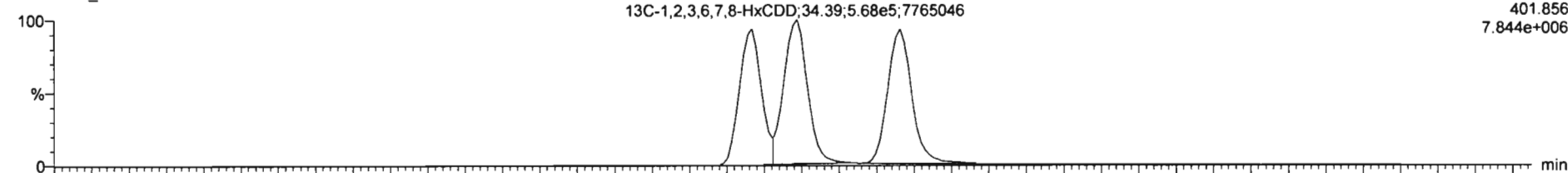


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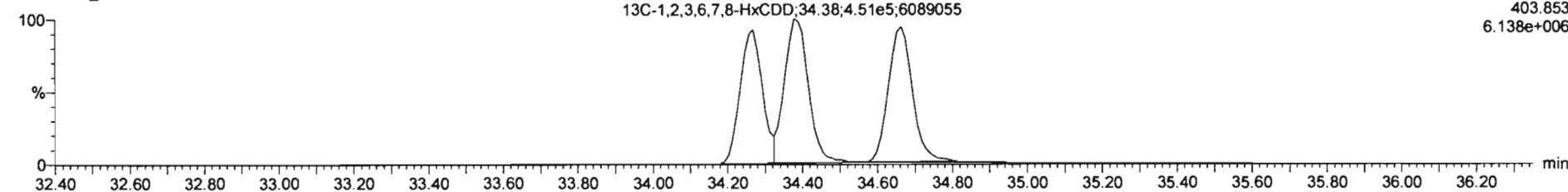


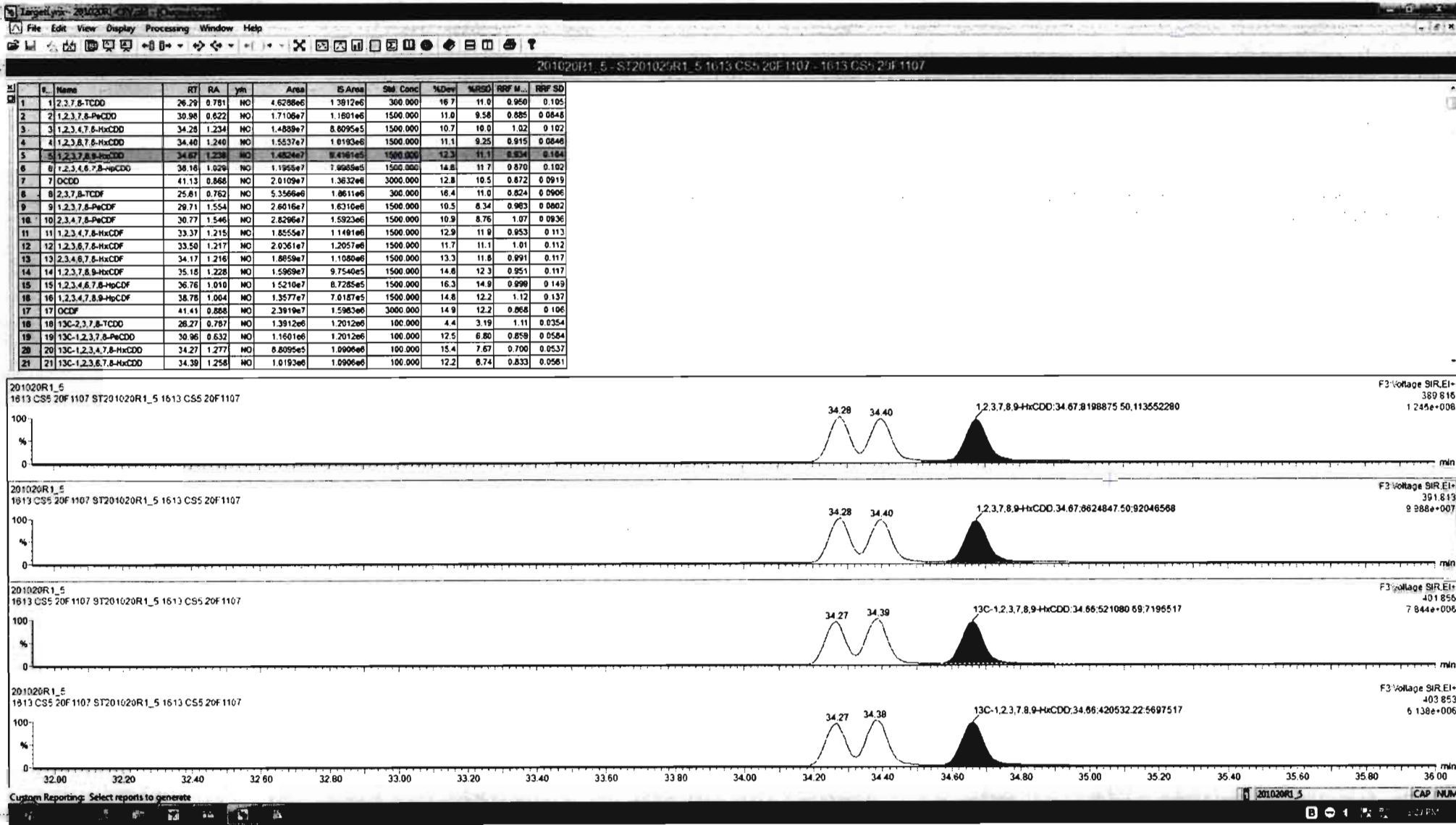
13C-1,2,3,4,7,8-HxCDD

201020R1_5



201020R1_5





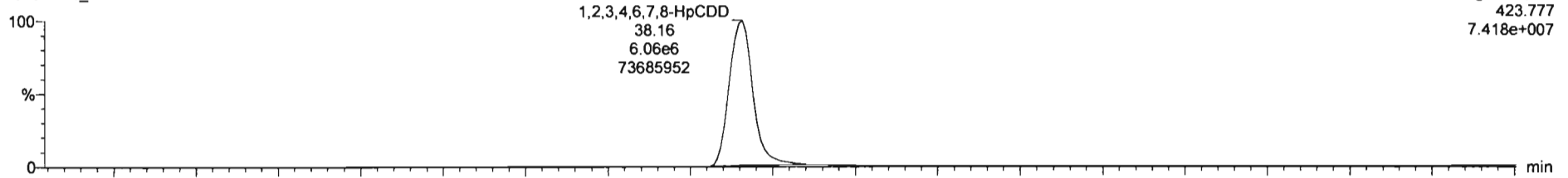
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Name: 201020R1_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107

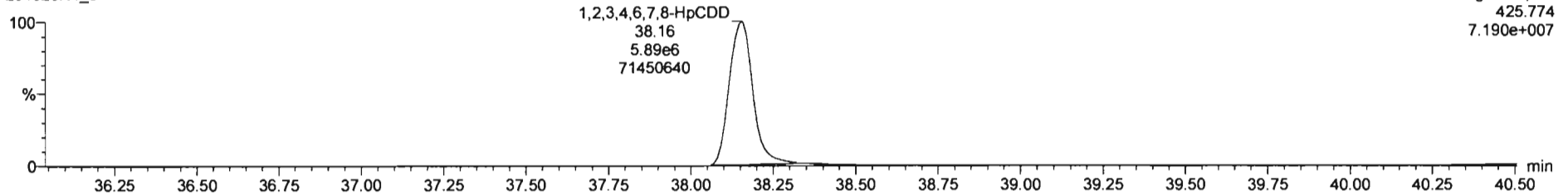
1,2,3,4,6,7,8-HpCDD

201020R1_5



F4: Voltage SIR, EI+
423.777
7.418e+007

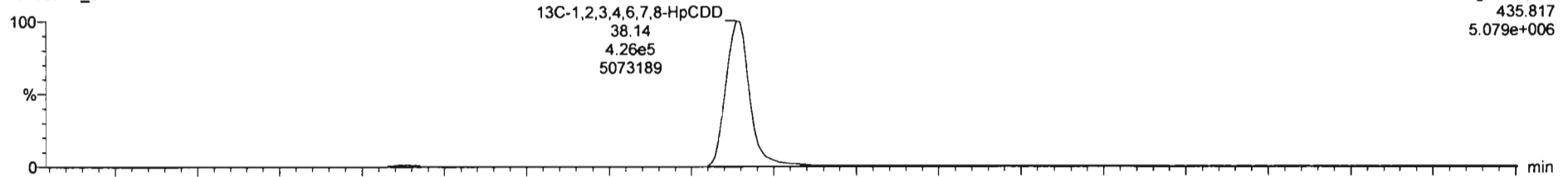
201020R1_5



F4: Voltage SIR, EI+
425.774
7.190e+007

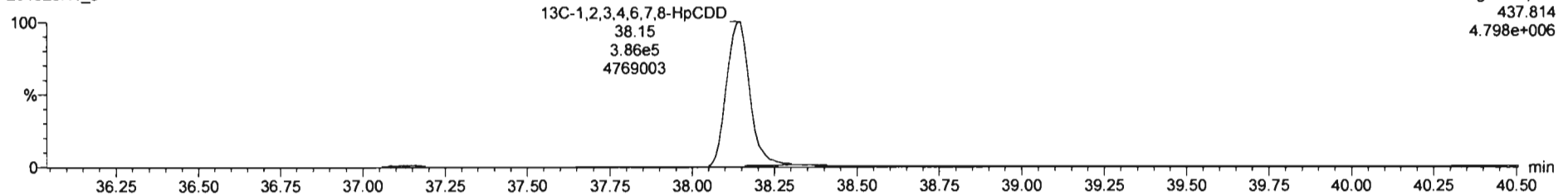
13C-1,2,3,4,6,7,8-HpCDD

201020R1_5



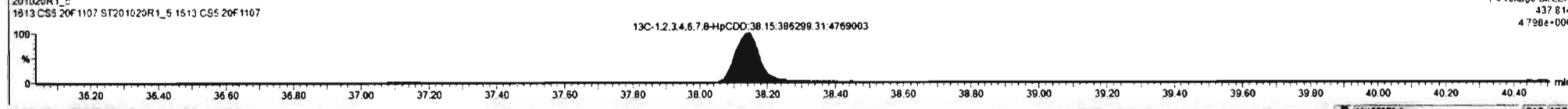
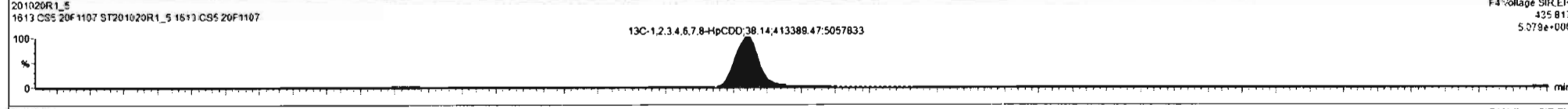
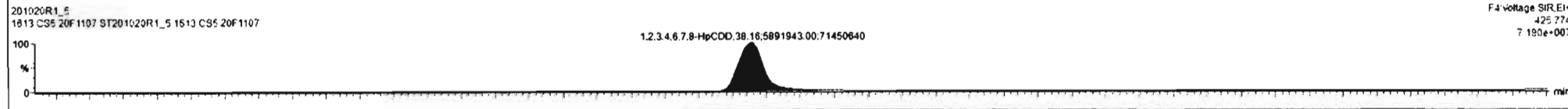
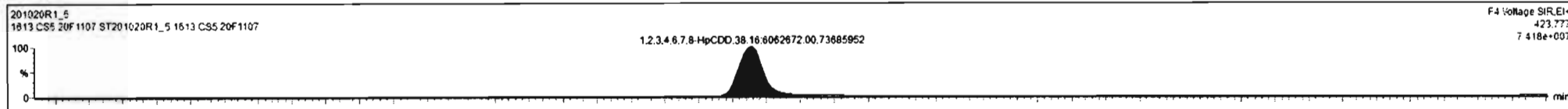
F4: Voltage SIR, EI+
435.817
5.079e+006

201020R1_5



F4: Voltage SIR, EI+
437.814
4.798e+006

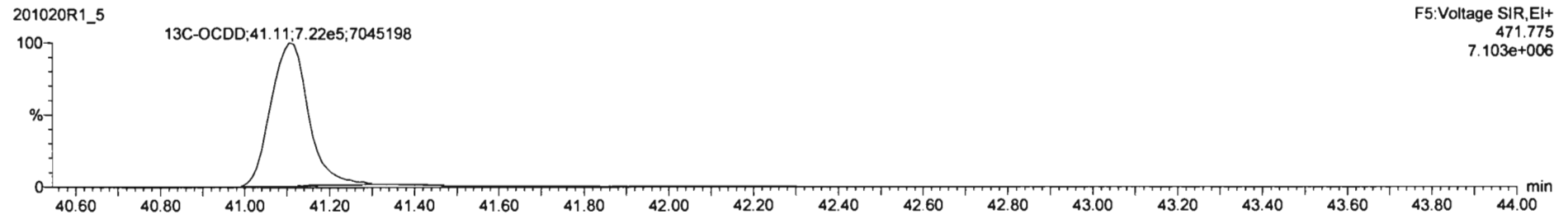
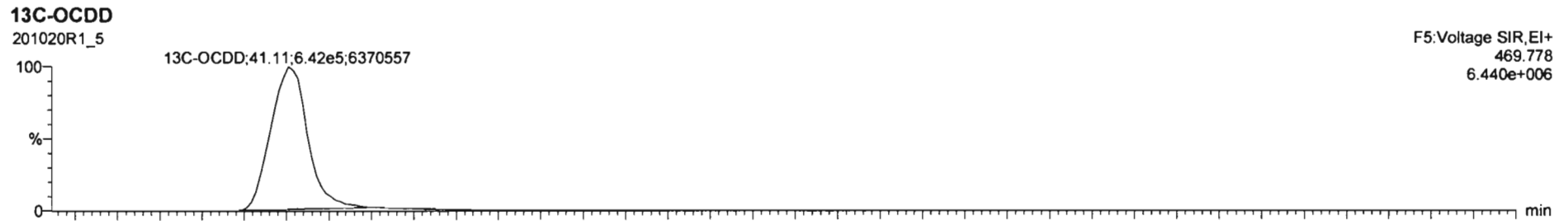
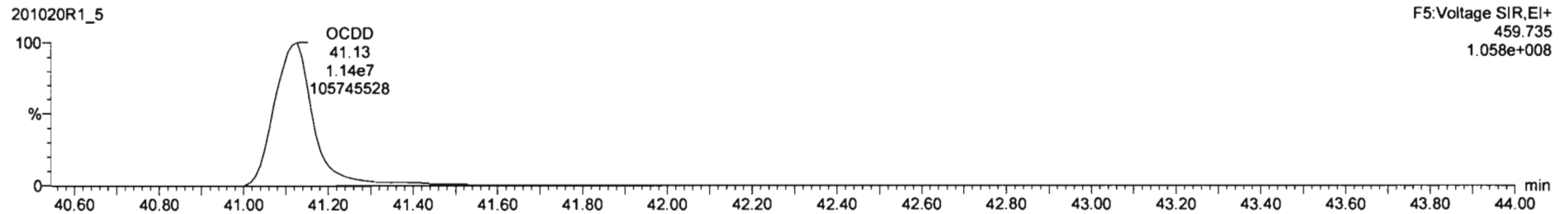
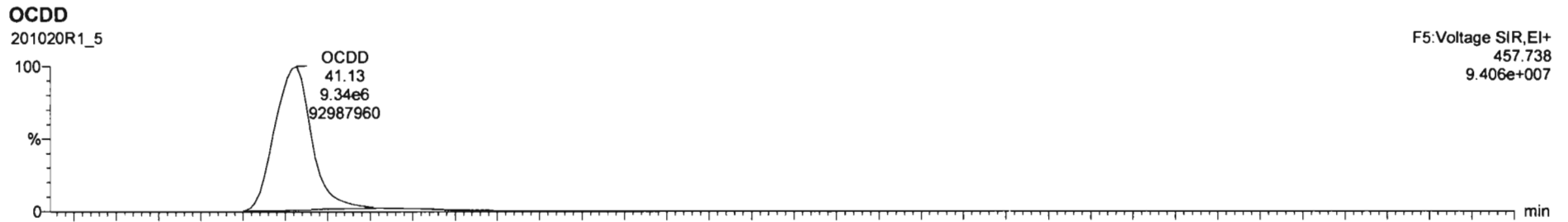
#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF W.	RRF SD
1	1,2,3,7,8-TCDD	26.29	0.781	NO	4.6288e6	1.3912e6	300.000	16.7	11.0	0.950	0.105
2	1,2,3,7,8-PeCDD	30.98	0.622	NO	1.7108e7	1.1801e6	1500.000	11.0	9.58	0.885	0.0848
3	1,2,3,4,7,8-HxCDD	34.28	1.234	NO	1.4888e7	8.8095e5	1500.000	10.7	10.0	1.02	0.102
4	1,2,3,6,7,8-HxCDD	34.40	1.240	NO	1.5537e7	1.0193e6	1500.000	11.1	9.25	0.915	0.0846
5	1,2,3,7,8,9-HxCDD	34.67	1.238	NO	1.4824e7	9.4161e5	1500.000	12.3	11.1	0.934	0.104
6	1,2,3,4,6,7,8-HpCDD	38.18	1.029	NO	1.1925e7	7.8998e5	1500.000	14.8	11.7	0.870	0.102
7	OCDD	41.13	0.868	NO	2.0109e7	1.3832e6	3000.000	12.8	10.5	0.872	0.0919
8	2,3,7,8-TCDF	25.61	0.762	NO	5.3566e6	1.8611e6	300.000	16.4	11.0	0.824	0.0906
9	1,2,3,7,8-PeCDF	29.71	1.554	NO	2.6018e7	1.6310e6	1500.000	10.5	8.34	0.963	0.0802
10	2,3,4,7,8-PeCDF	30.77	1.546	NO	2.8206e7	1.5923e6	1500.000	10.9	8.76	1.07	0.0936
11	1,2,3,4,7,8-HxCDF	33.37	1.215	NO	1.8555e7	1.1491e6	1500.000	12.9	11.9	0.953	0.113
12	1,2,3,6,7,8-HxCDF	33.50	1.217	NO	2.0361e7	1.2057e6	1500.000	11.7	11.1	1.01	0.112
13	2,3,4,6,7,8-HxCDF	34.17	1.216	NO	1.8659e7	1.1080e6	1500.000	13.3	11.8	0.991	0.117
14	1,2,3,7,8,9-HxCDF	35.18	1.228	NO	1.5969e7	9.7540e5	1500.000	14.8	12.3	0.951	0.117
15	1,2,3,4,6,7,8-HpCDF	36.76	1.010	NO	1.5210e7	8.7285e5	1500.000	16.3	14.9	0.998	0.149
16	1,2,3,4,7,8,9-HpCDF	38.78	1.004	NO	1.3577e7	7.0187e5	1500.000	14.8	12.2	1.12	0.137
17	OCDF	41.41	0.868	NO	2.3919e7	1.5983e6	3000.000	14.9	12.2	0.868	0.106
18	13C-1,2,3,7,8-TCDD	26.27	0.787	NO	1.3912e6	1.2012e6	100.000	4.4	3.19	1.11	0.0354
19	13C-1,2,3,7,8-PeCDD	30.96	0.632	NO	1.1601e6	1.2012e6	100.000	12.5	6.80	0.859	0.0584
20	13C-1,2,3,4,7,8-HxCDD	34.27	1.277	NO	8.8095e5	1.0906e6	100.000	15.4	7.67	0.700	0.0537
21	13C-1,2,3,6,7,8-HxCDD	34.39	1.258	NO	1.0193e6	1.0906e6	100.000	12.2	6.74	0.833	0.0561

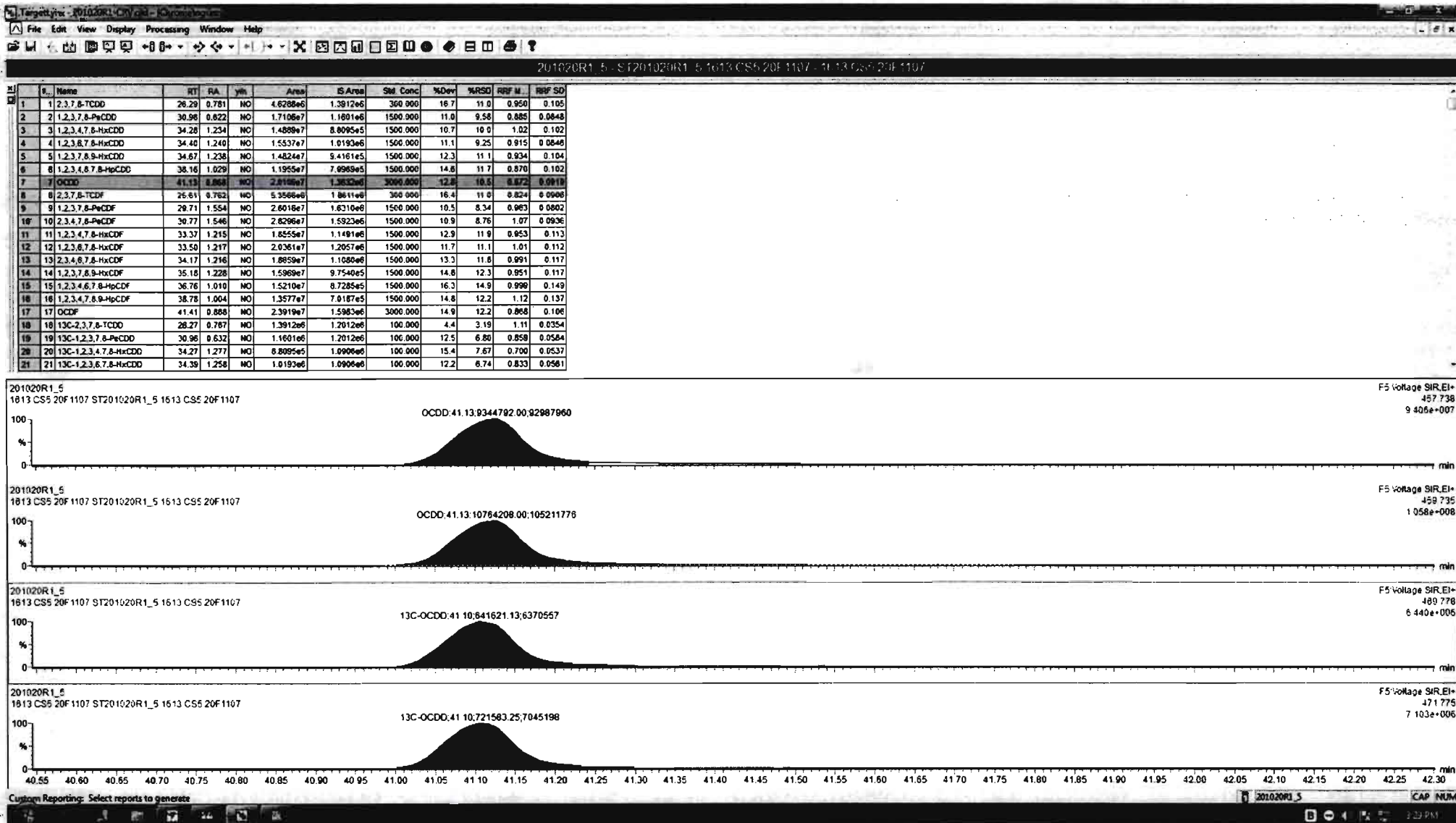


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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

Name: 201020R1_5, Date: 20-Oct-2020, Time: 12:16:56, ID: ST201020R1_5 1613 CS5 20F1107, Description: 1613 CS5 20F1107





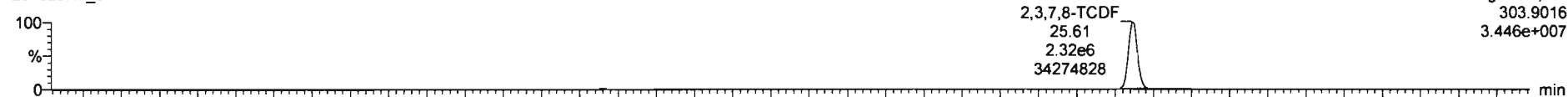
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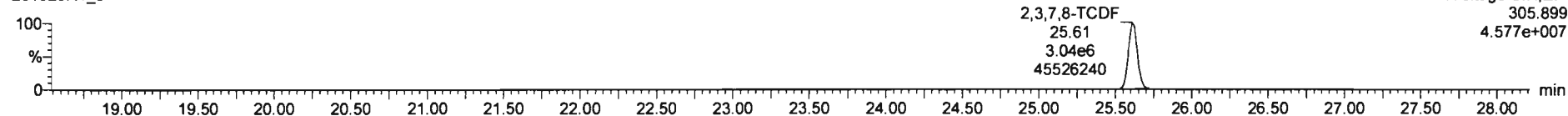
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2,3,7,8-TCDF

201020R1_5

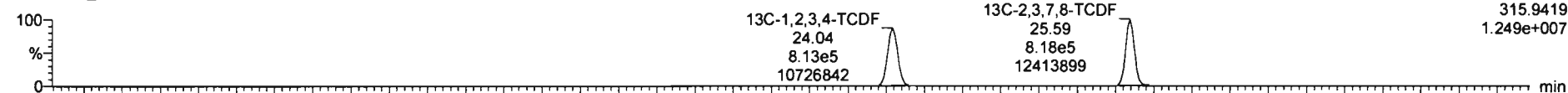


201020R1_5

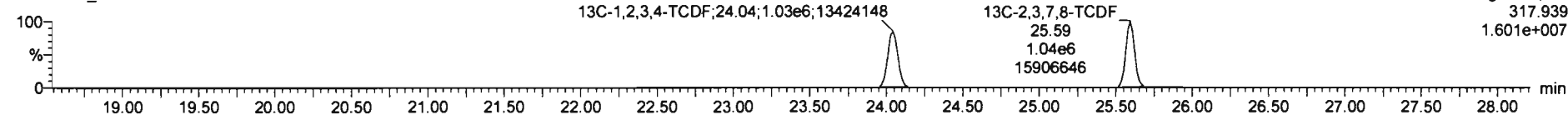


13C-2,3,7,8-TCDF

201020R1_5

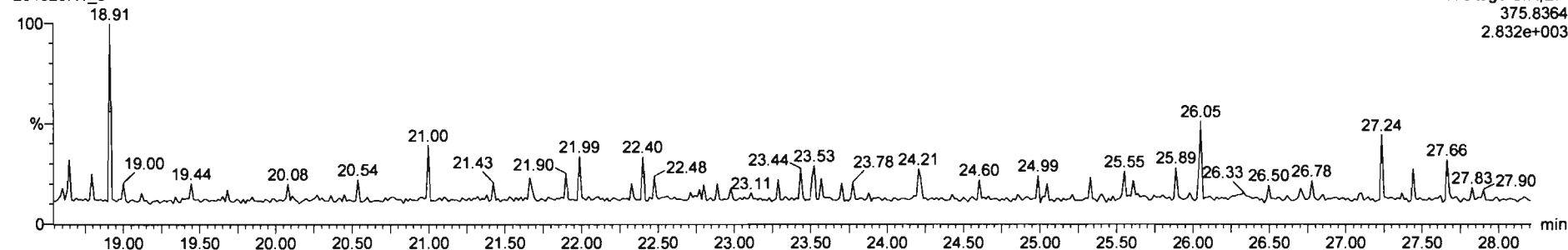


201020R1_5



DPE1

201020R1_5



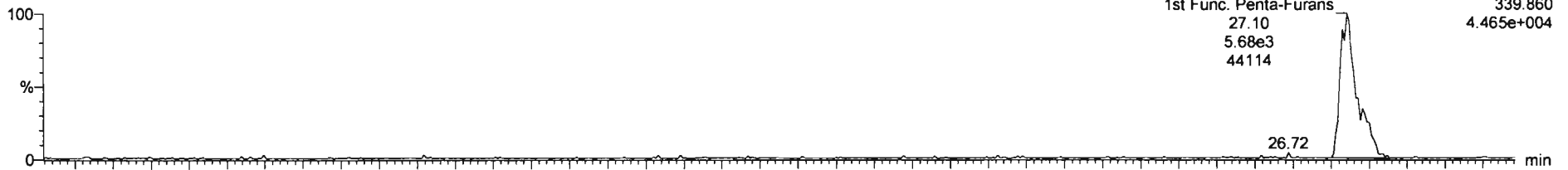
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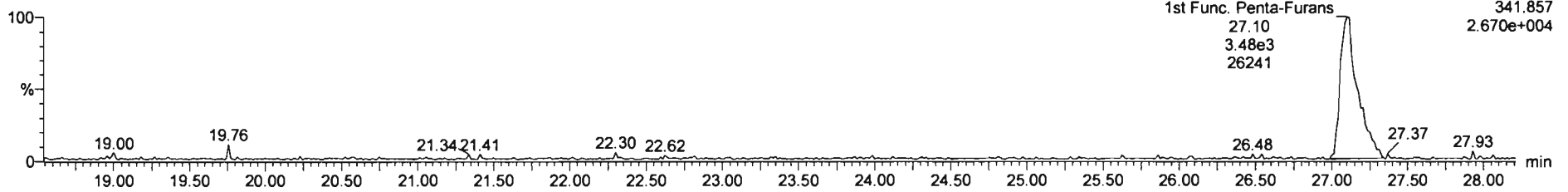
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1st Func. Penta-Furans

201020R1_5

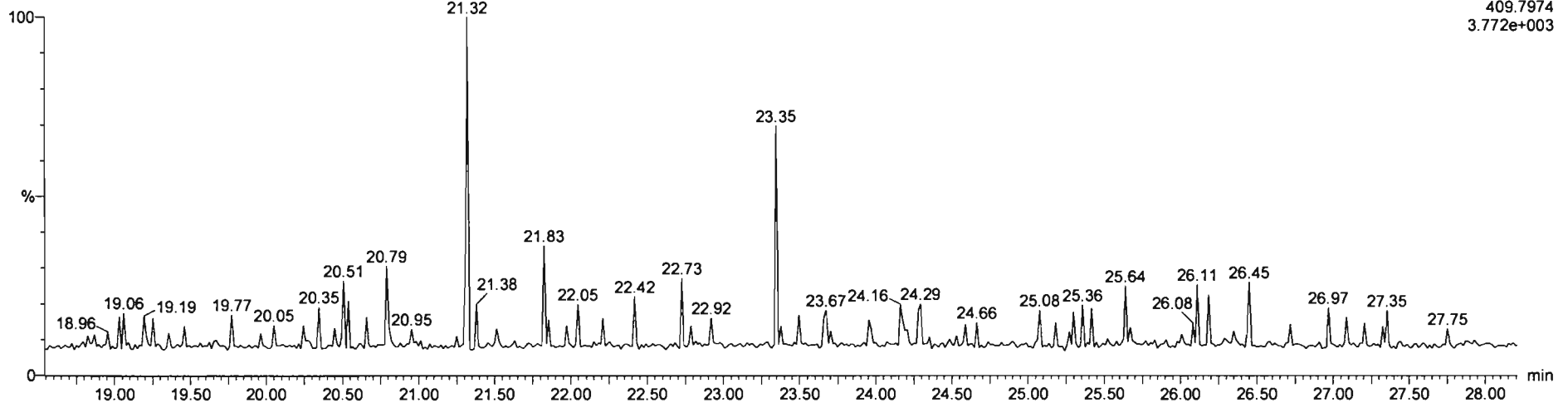


201020R1_5



DPE6

201020R1_5



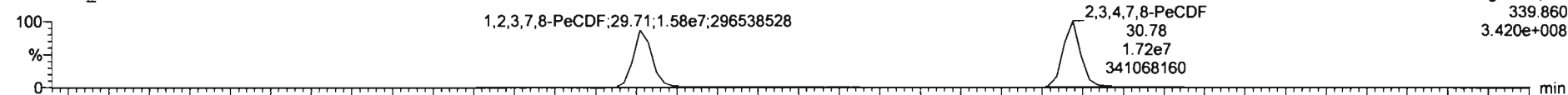
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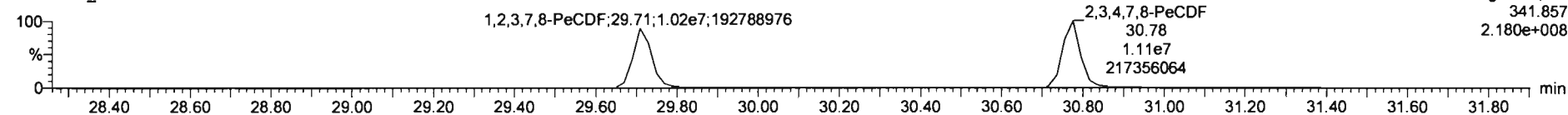
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1,2,3,7,8-PeCDF

201020R1_5

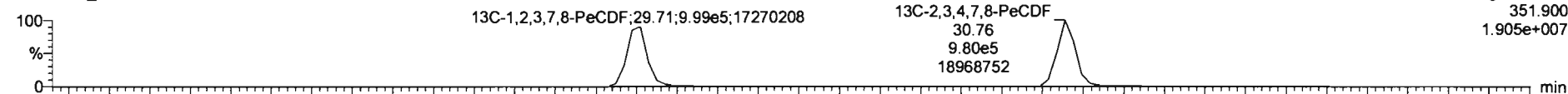


201020R1_5

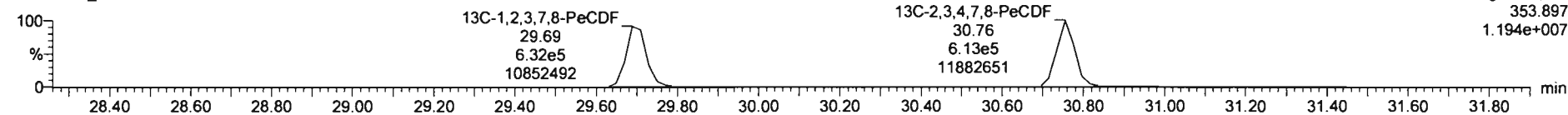


13C-1,2,3,7,8-PeCDF

201020R1_5

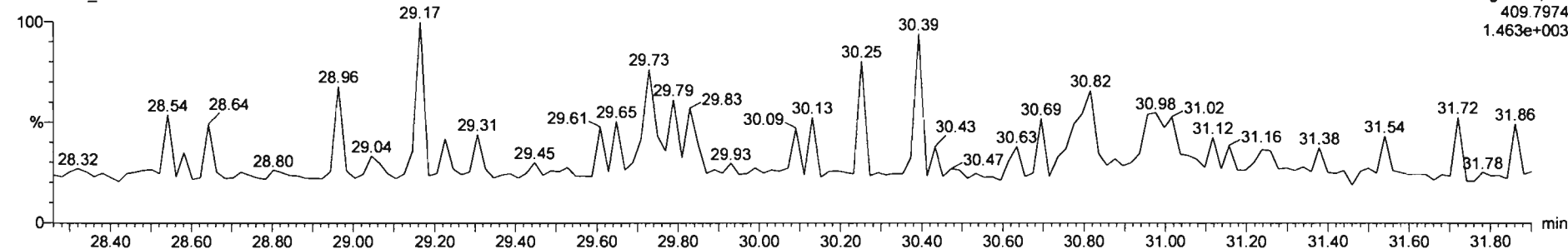


201020R1_5



DPE2

201020R1_5



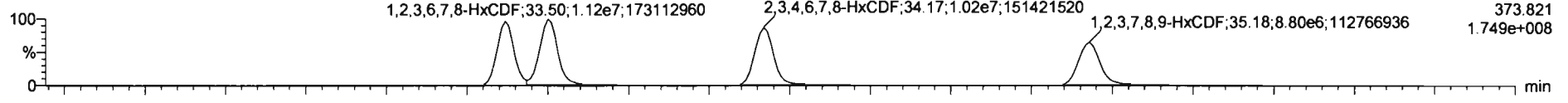
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Printed: Tuesday, October 20, 2020 15:18:47 Pacific Daylight Time

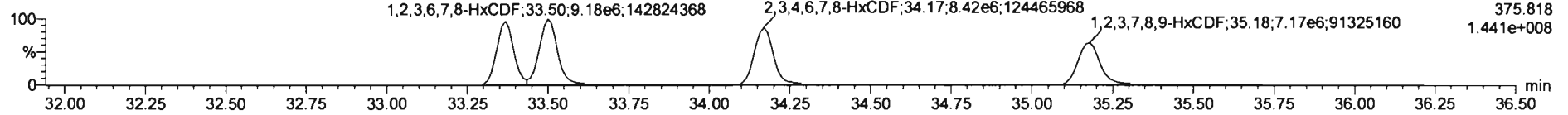
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1,2,3,4,7,8-HxCDF

201020R1_5

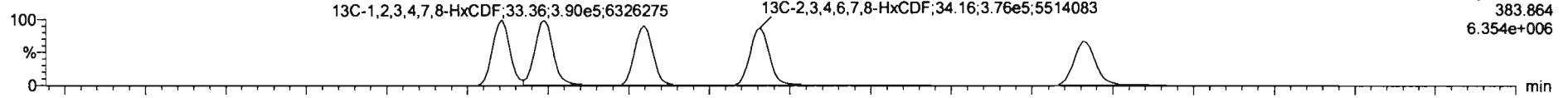


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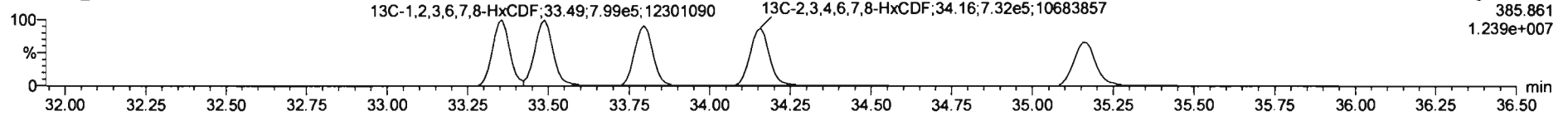


13C-1,2,3,4,7,8-HxCDF

201020R1_5

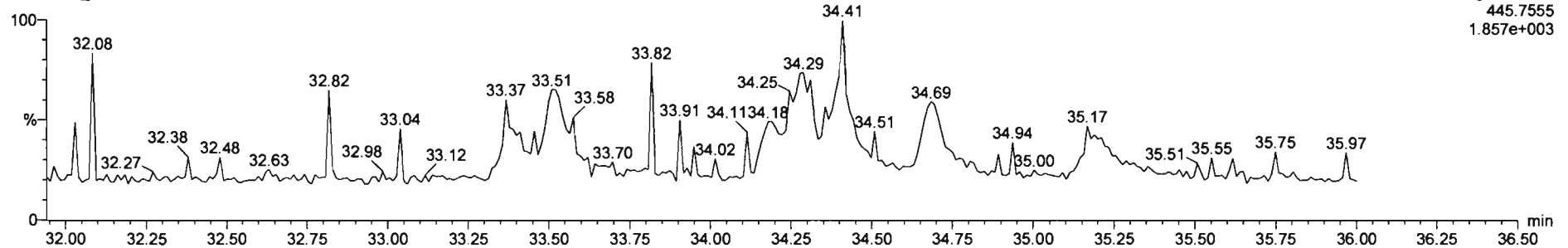


201020R1_5



DPE3

201020R1_5



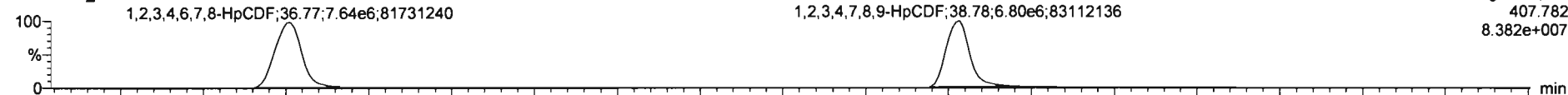
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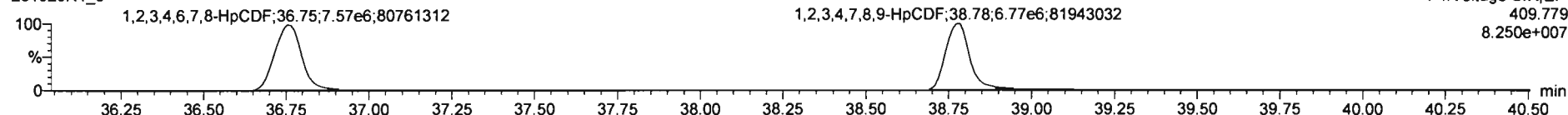
1,2,3,4,6,7,8-HpCDF

201020R1_5



F4:Voltage SIR,EI+
407.782
8.382e+007

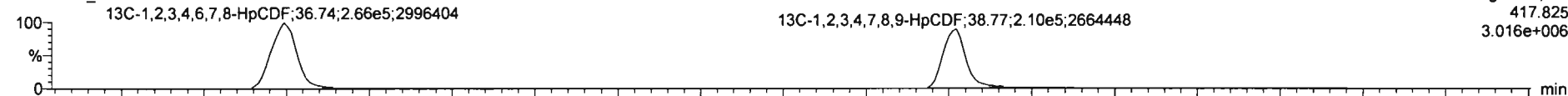
201020R1_5



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8.250e+007

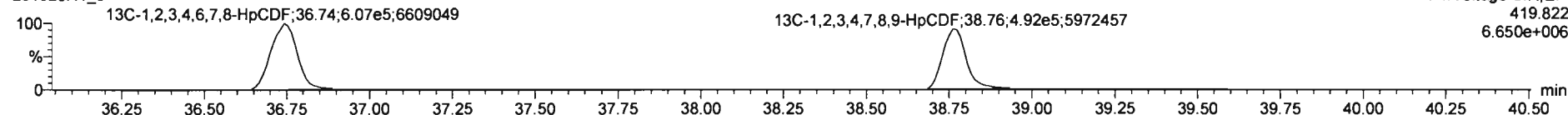
13C-1,2,3,4,6,7,8-HpCDF

201020R1_5



F4:Voltage SIR,EI+
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3.016e+006

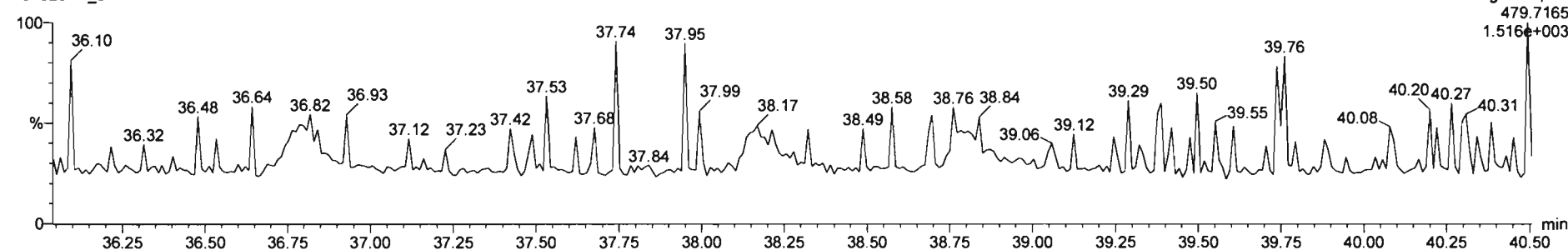
201020R1_5



F4:Voltage SIR,EI+
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DPE4

201020R1_5



F4:Voltage SIR,EI+
479.7165
1.516e+003

Dataset: Untitled

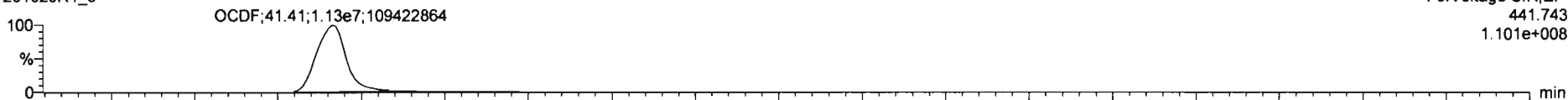
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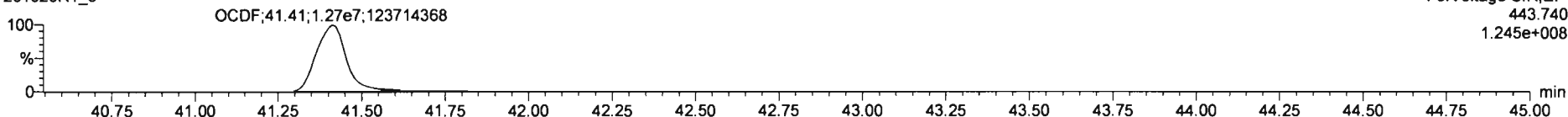
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OCDF

201020R1_5

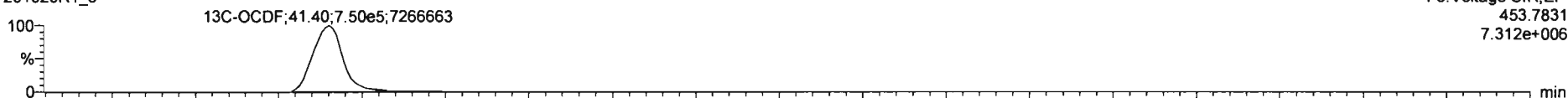


201020R1_5

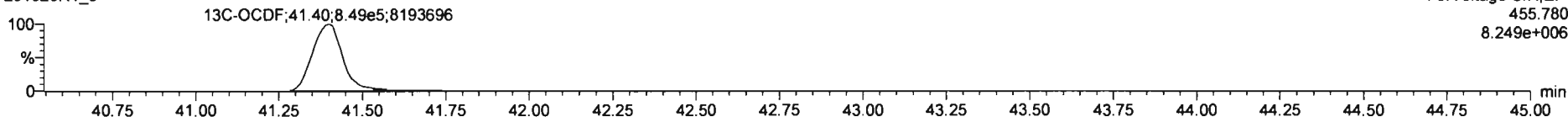


13C-OCDF

201020R1_5

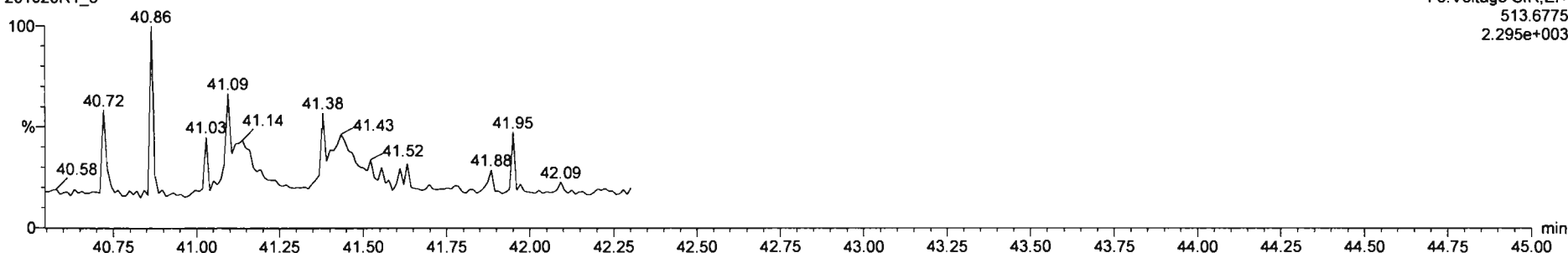


201020R1_5



DPE5

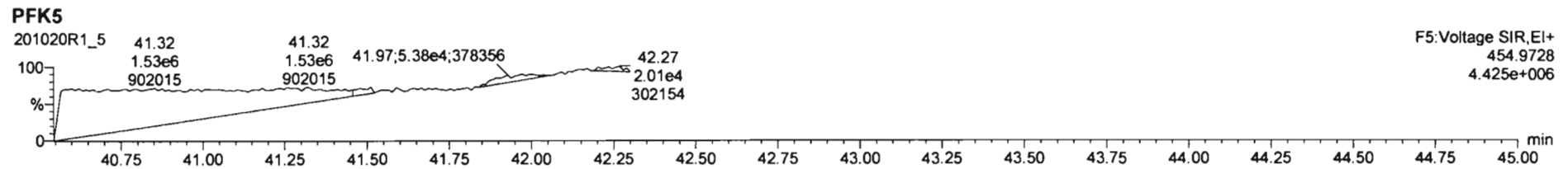
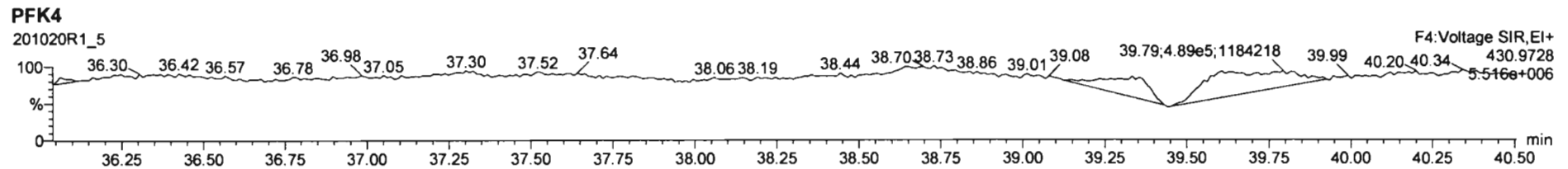
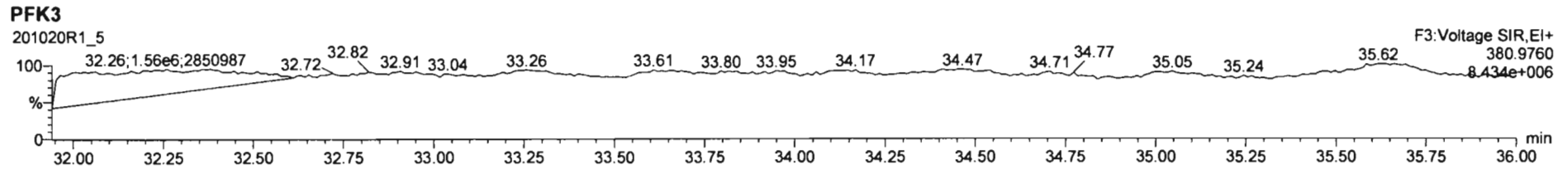
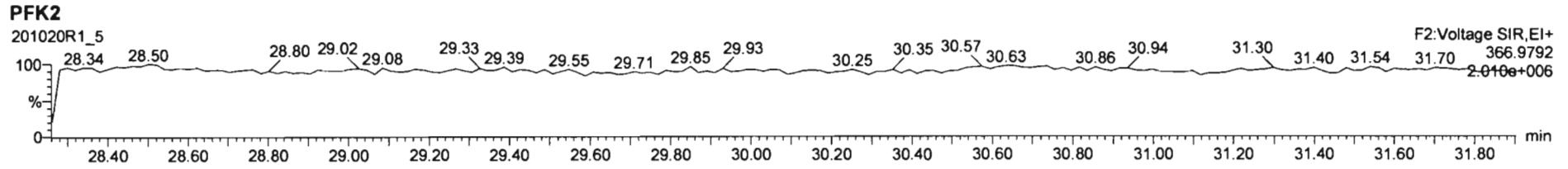
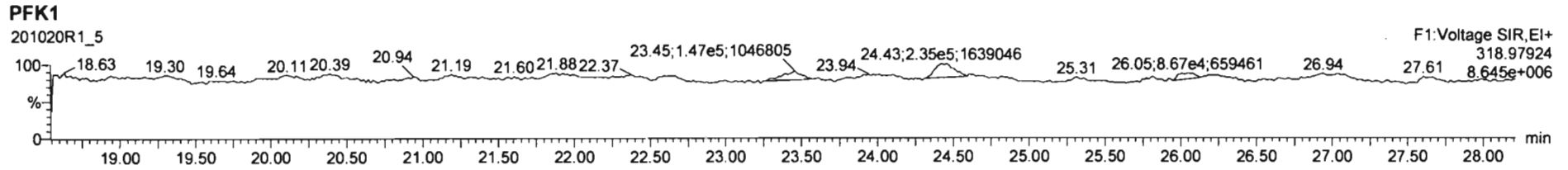
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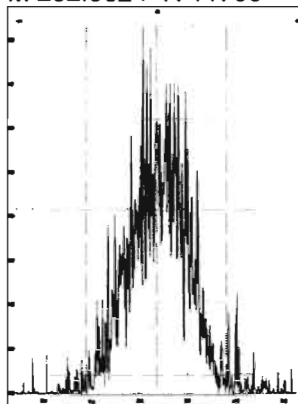
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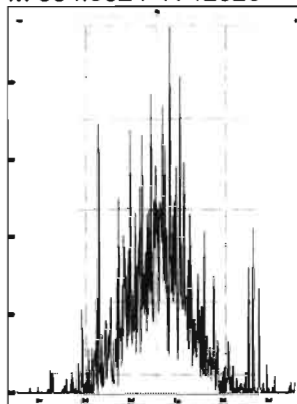


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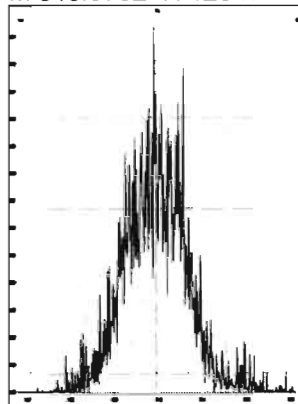
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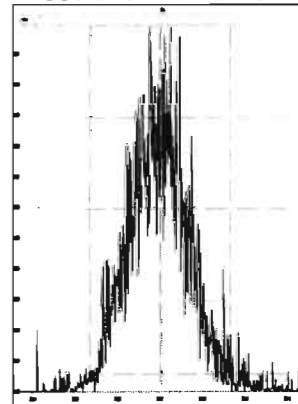
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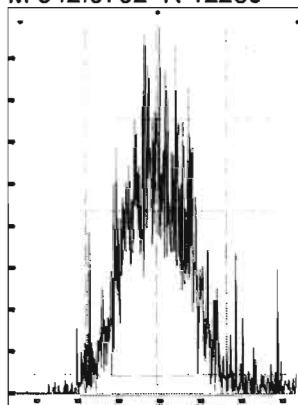
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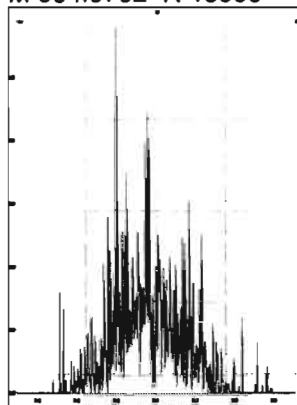
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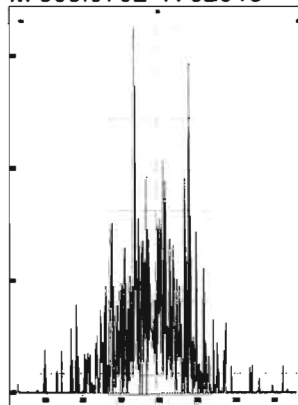
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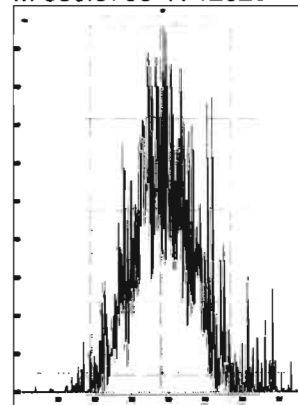
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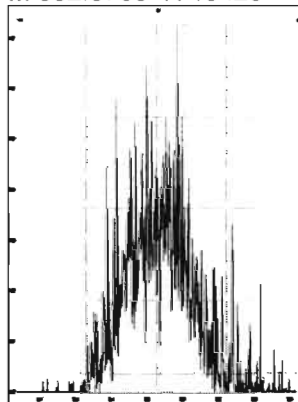
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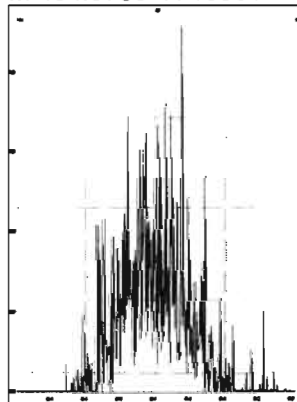
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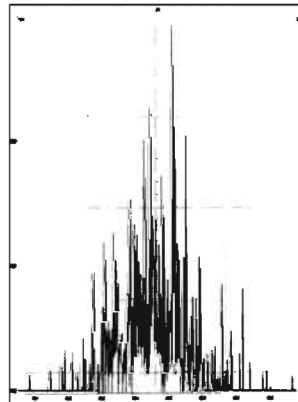
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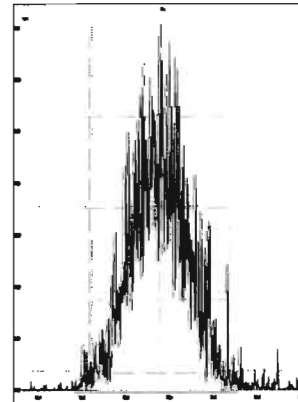
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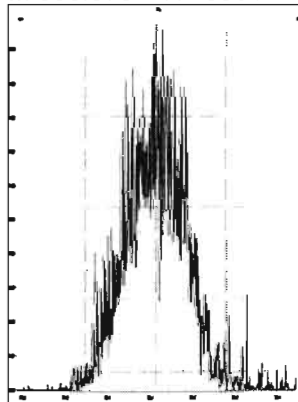
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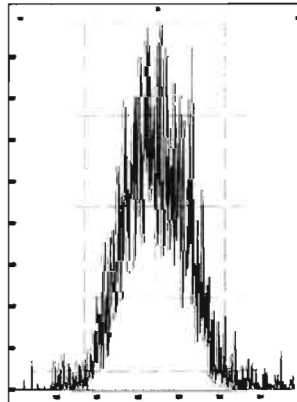
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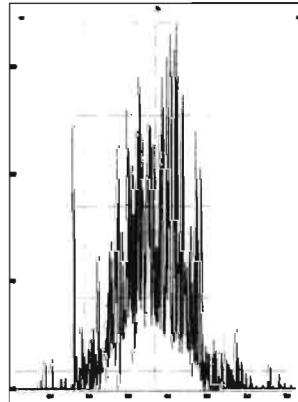
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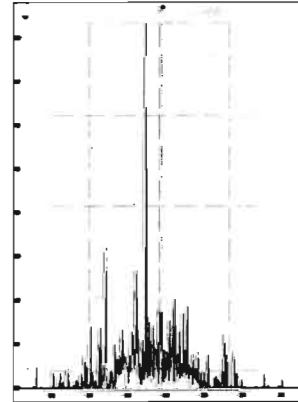
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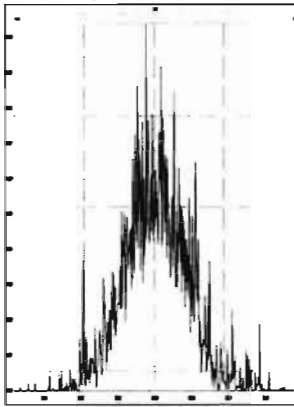


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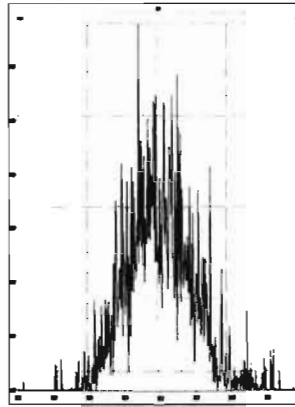


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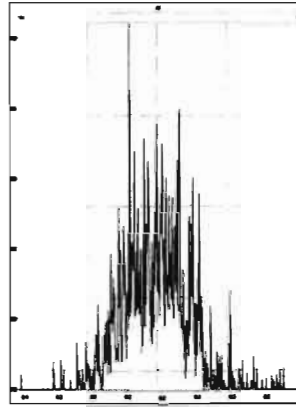
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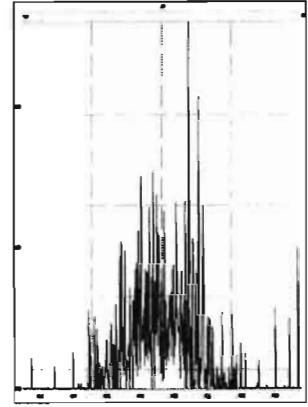
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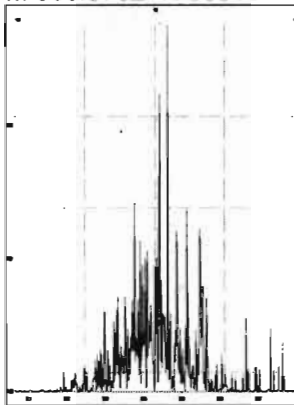
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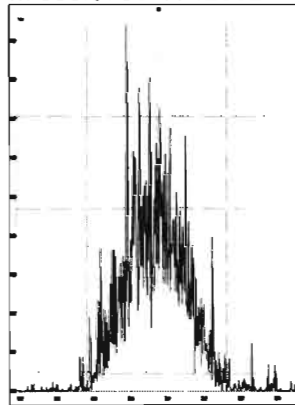
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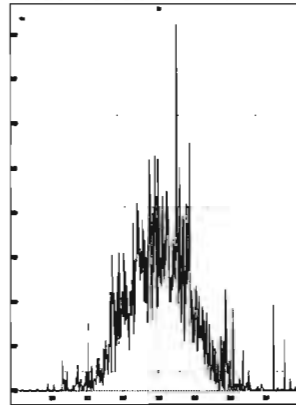
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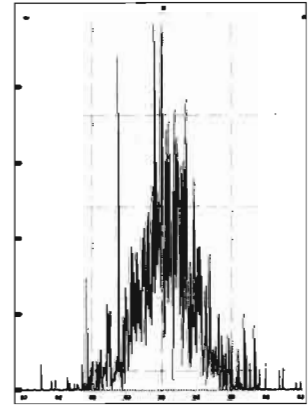
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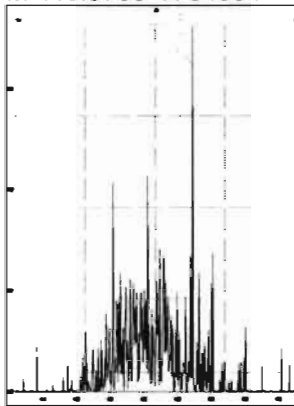
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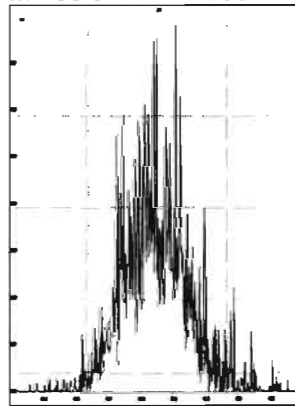
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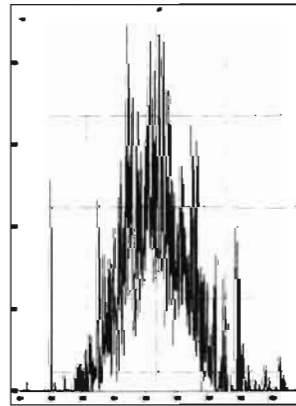
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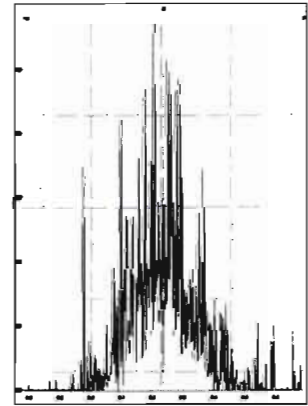
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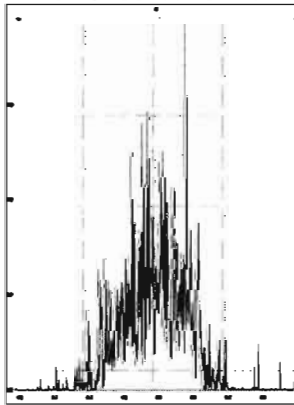
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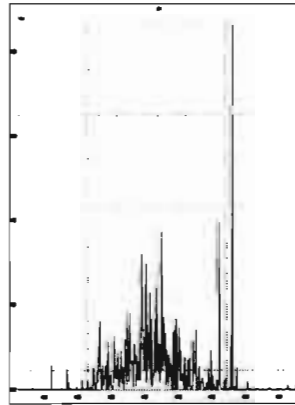
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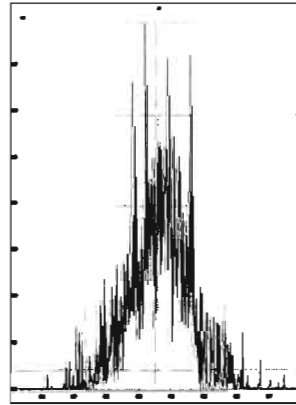
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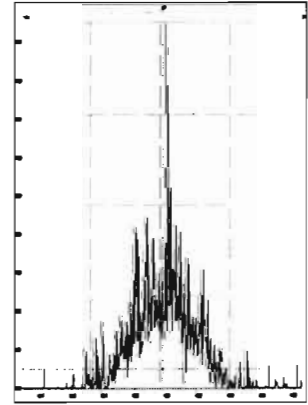
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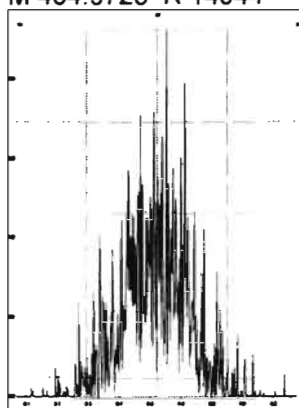


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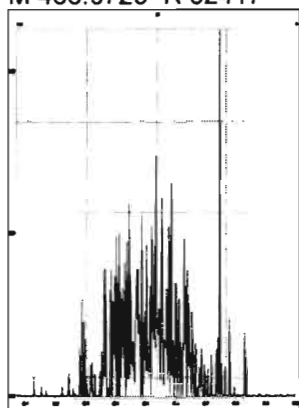


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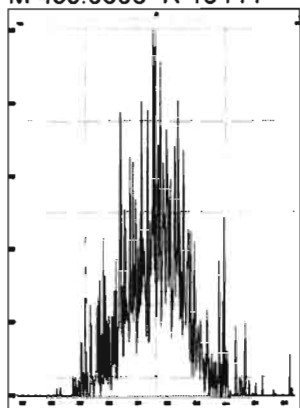
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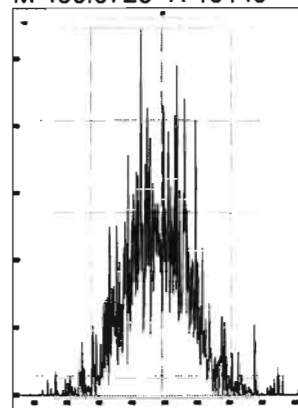
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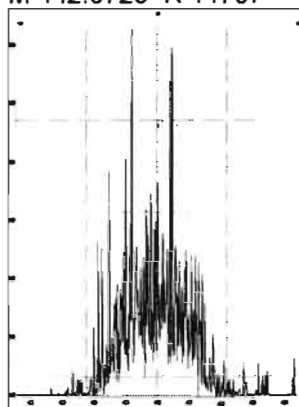
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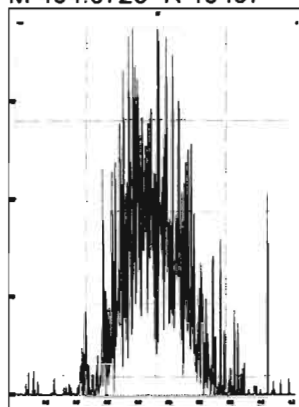
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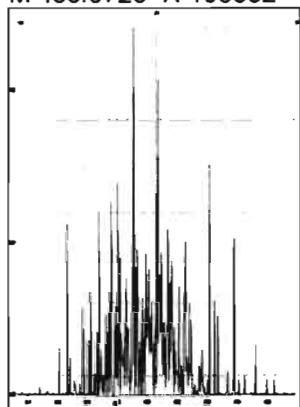
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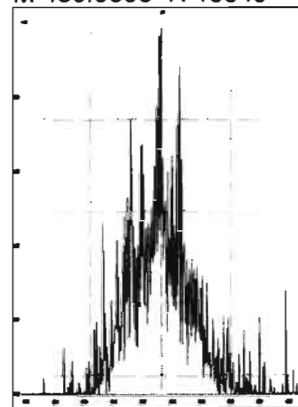
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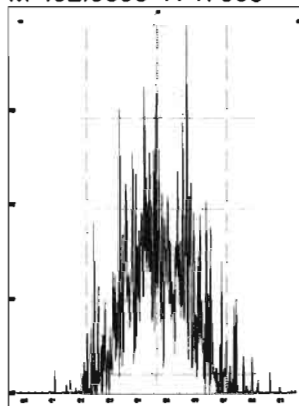
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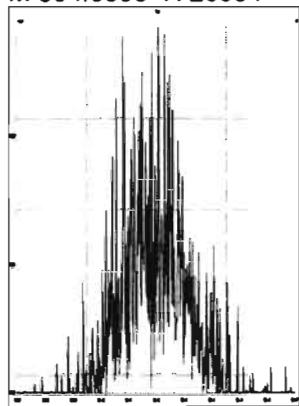
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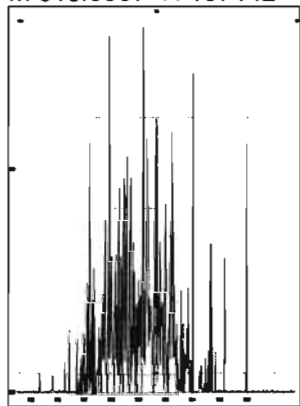
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Dataset: U:\VG12.PRO\Results\201020R1\201020R1-8.qld

Last Altered: Tuesday, October 20, 2020 15:15:37 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:16:22 Pacific Daylight Time

GRB 10/20/2020
HN 10/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-10-20-20.mdb 20 Oct 2020 10:47:39
Calibration: U:\VG12.PRO\CurveDB\vbDIOXIN_1613vg12-10-20-20.cdb 20 Oct 2020 14:36:10

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

#	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	1.37e5	1.40e6	0.74	NO	0.950	26.30	26.30	NO	1.001	1.001	10.363	104	NO
2	2 1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.62	NO	0.885	30.97	30.96	NO	1.000	1.000	52.349	105	NO
3	3 1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.30	NO	1.02	34.31	34.29	NO	1.001	1.000	53.693	107	NO
4	4 1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.21	NO	0.915	34.40	34.41	NO	1.000	1.001	55.421	111	NO
5	5 1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.25	NO	0.934	34.67	34.69	NO	1.000	1.001	53.130	106	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.08e5	6.75e5	1.02	NO	0.870	38.15	38.17	NO	1.000	1.001	52.362	105	NO
7	7 OCDD	5.24e5	1.11e6	0.87	NO	0.872	41.11	41.12	NO	1.000	1.000	108.80	109	NO
8	8 2,3,7,8-TCDF	1.63e5	1.90e6	0.75	NO	0.824	25.60	25.62	NO	1.000	1.001	10.438	104	NO
9	9 1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.57	NO	0.963	29.70	29.71	NO	1.000	1.001	50.613	101	NO
10	10 2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.58	NO	1.07	30.76	30.78	NO	1.000	1.001	54.945	110	NO
11	11 1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.22	NO	0.953	33.36	33.38	NO	1.000	1.001	55.545	111	NO
12	12 1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.22	NO	1.01	33.50	33.51	NO	1.000	1.000	55.330	111	NO
13	13 2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.23	NO	0.991	34.16	34.18	NO	1.000	1.001	54.856	110	NO
14	14 1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.23	NO	0.951	35.17	35.18	NO	1.000	1.000	54.262	109	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.01	NO	0.999	36.76	36.77	NO	1.000	1.000	54.767	110	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.01	NO	1.12	38.77	38.78	NO	1.000	1.000	51.464	103	NO
17	17 OCDF	6.03e5	1.28e6	0.88	NO	0.868	41.41	41.41	NO	1.000	1.000	108.21	108	NO
18	18 13C-2,3,7,8-TCDD	1.40e6	1.26e6	0.78	NO	1.11	26.27	26.27	NO	1.029	1.030	100.10	100	NO
19	19 13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.62	NO	0.859	30.91	30.96	NO	1.211	1.213	99.348	99.3	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.28	NO	0.700	34.26	34.28	NO	1.013	1.014	97.536	97.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.26	NO	0.833	34.39	34.39	NO	1.017	1.017	96.285	96.3	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.09e5	1.11e6	1.26	NO	0.762	34.66	34.66	NO	1.025	1.025	95.612	95.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.75e5	1.11e6	1.05	NO	0.650	38.10	38.15	NO	1.127	1.128	93.625	93.6	NO
24	24 13C-OCDD	1.11e6	1.11e6	0.89	NO	0.539	41.04	41.11	NO	1.214	1.216	184.54	92.3	NO
25	25 13C-2,3,7,8-TCDF	1.90e6	1.96e6	0.78	NO	0.981	25.60	25.59	NO	1.003	1.003	98.983	99.0	NO
26	26 13C-1,2,3,7,8-PeCDF	1.57e6	1.96e6	1.60	NO	0.792	29.66	29.69	NO	1.162	1.163	101.15	101	NO
27	27 13C-2,3,4,7,8-PeCDF	1.52e6	1.96e6	1.59	NO	0.778	30.72	30.76	NO	1.204	1.205	99.698	99.7	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.04e6	1.11e6	0.50	NO	0.954	33.36	33.36	NO	0.987	0.987	97.788	97.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.08e6	1.11e6	0.50	NO	1.01	33.50	33.50	NO	0.991	0.991	96.967	97.0	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.01e6	1.11e6	0.52	NO	0.921	34.16	34.16	NO	1.010	1.010	98.529	98.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.60e5	1.11e6	0.51	NO	0.803	35.16	35.17	NO	1.040	1.040	96.452	96.5	NO

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Printed: Tuesday, October 20, 2020 15:16:22 Pacific Daylight Time

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.84e5	1.11e6	0.44	NO	0.735	36.72	36.75	NO	1.086	1.087	96.055	96.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.01e5	1.11e6	0.42	NO	0.568	38.71	38.77	NO	1.145	1.147	95.309	95.3	NO
34	34 13C-OCDF	1.28e6	1.11e6	0.89	NO	0.629	41.33	41.40	NO	1.222	1.225	183.63	91.8	NO
35	35 37Cl-2,3,7,8-TCDD	1.45e5	1.26e6			1.09	26.29	26.29	NO	1.030	1.030	10.596	106	NO
36	36 13C-1,2,3,4-TCDD	1.26e6	1.26e6	0.79	NO	1.00	25.59	25.52	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.96e6	1.96e6	0.80	NO	1.00	24.13	24.06	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.11e6	1.11e6	0.51	NO	1.00	33.84	33.81	NO	1.000	1.000	100.00	100	YES st

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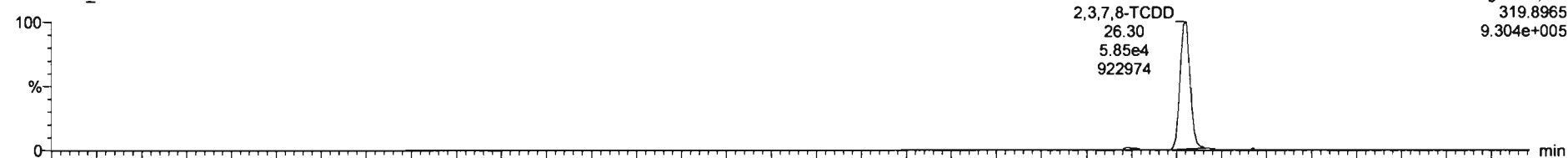
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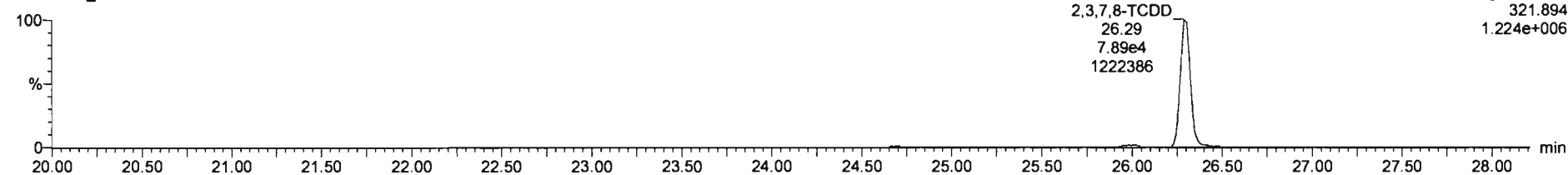
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2,3,7,8-TCDD

201020R1_8

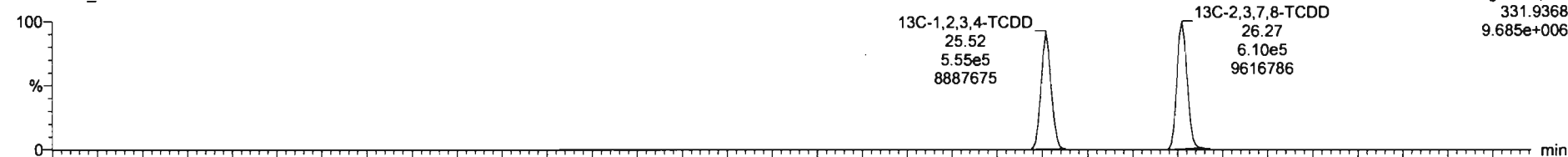


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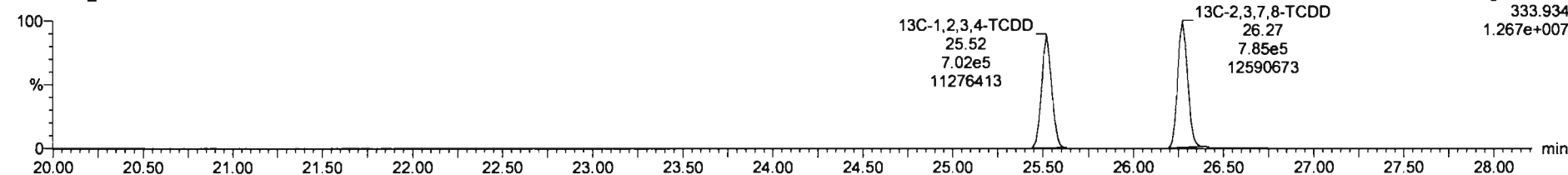


13C-2,3,7,8-TCDD

201020R1_8



201020R1_8



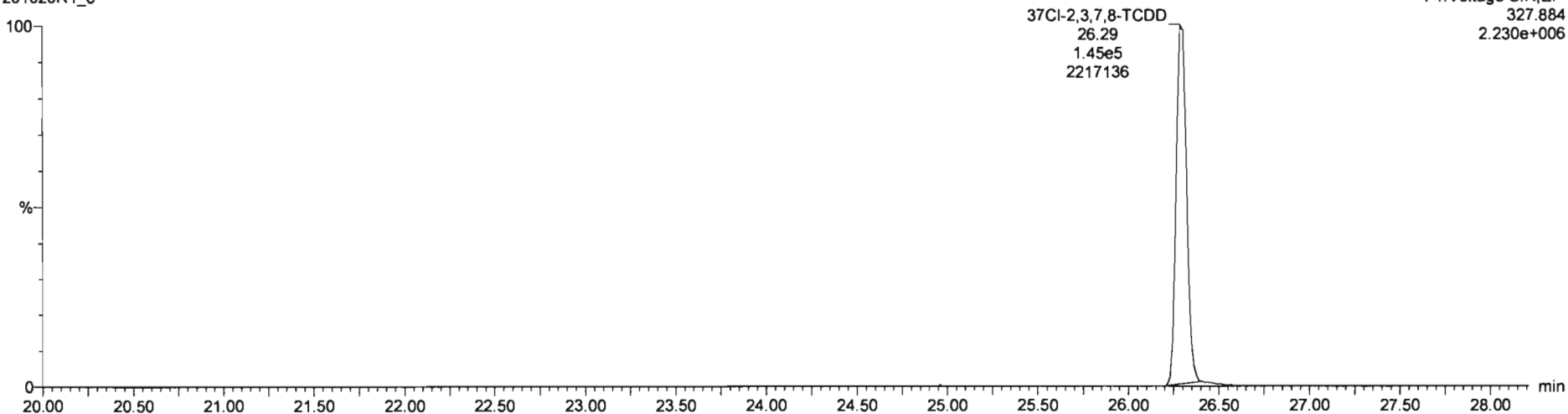
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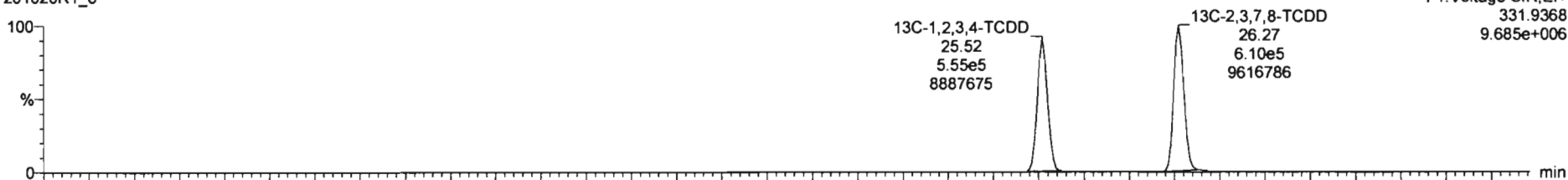
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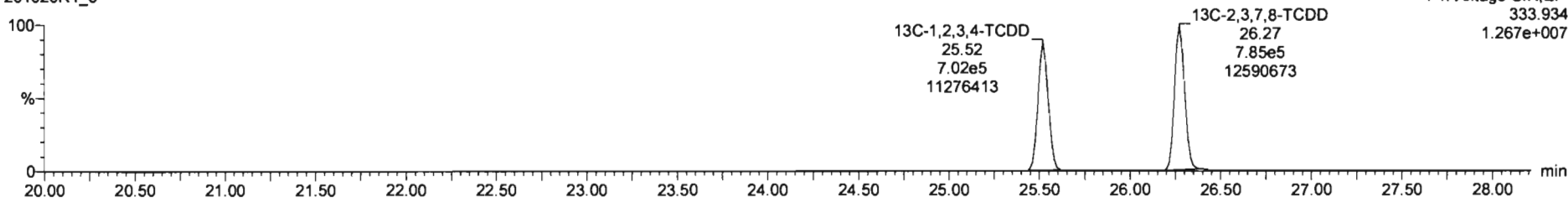


13C-1,2,3,4-TCDD

201020R1_8



201020R1_8



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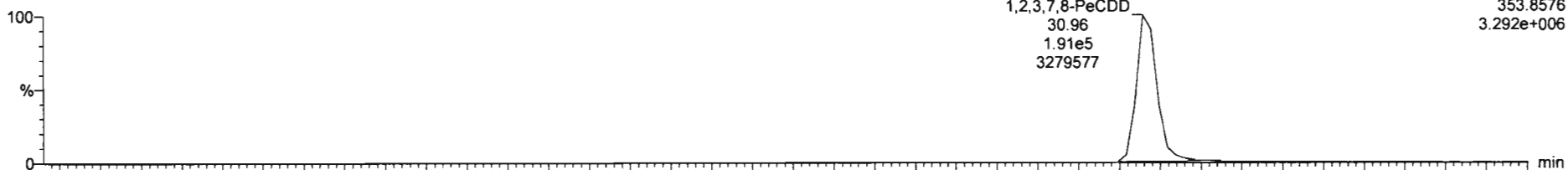
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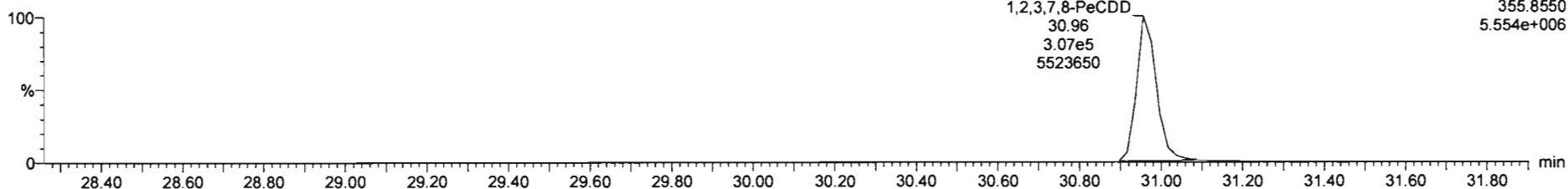
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1,2,3,7,8-PeCDD

201020R1_8

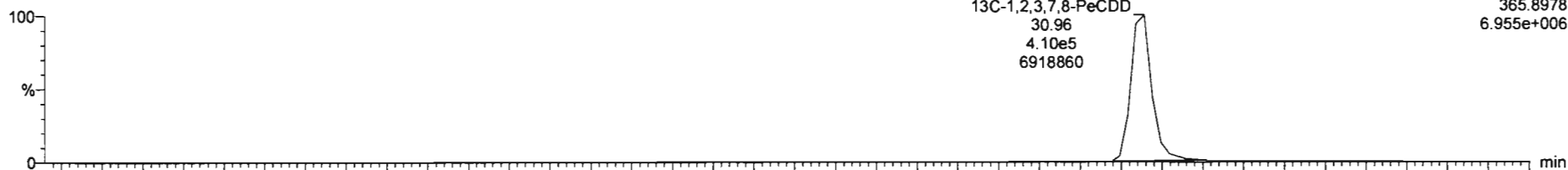


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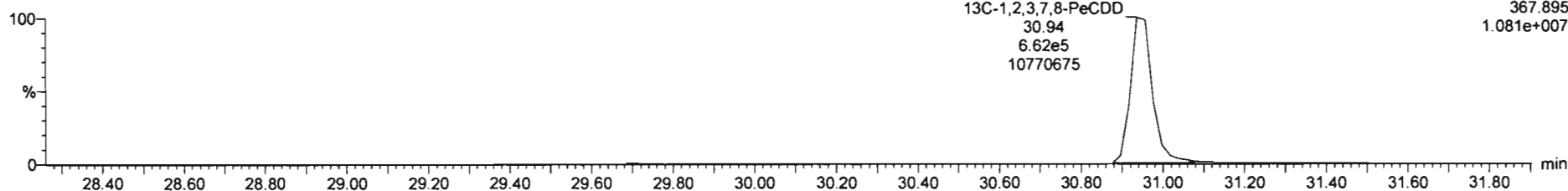


13C-1,2,3,7,8-PeCDD

201020R1_8



201020R1_8



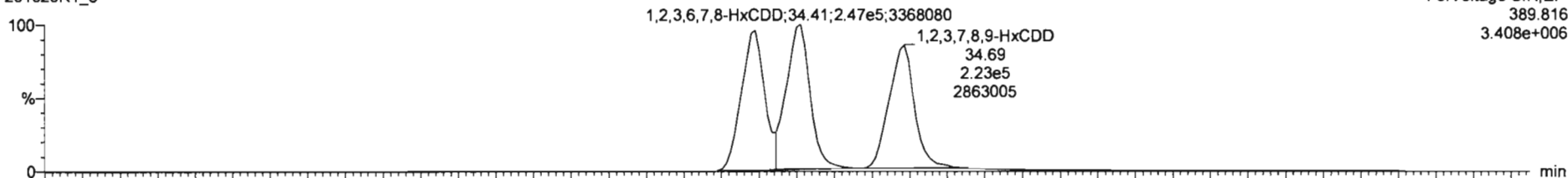
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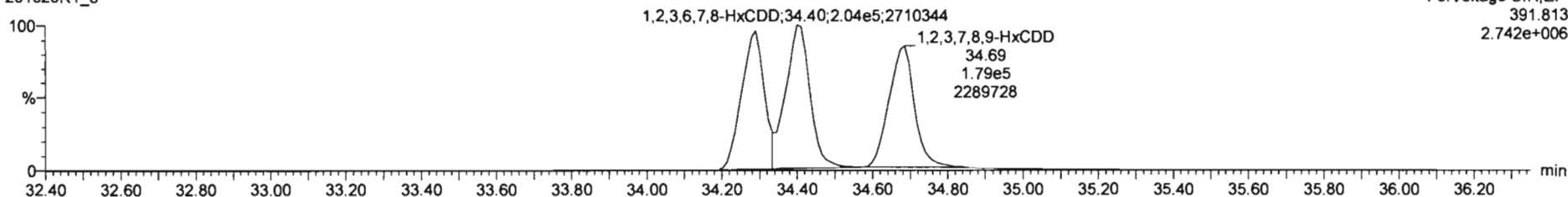
1,2,3,4,7,8-HxCDD

201020R1_8



F3:Voltage SIR, EI+
389.816
3.408e+006

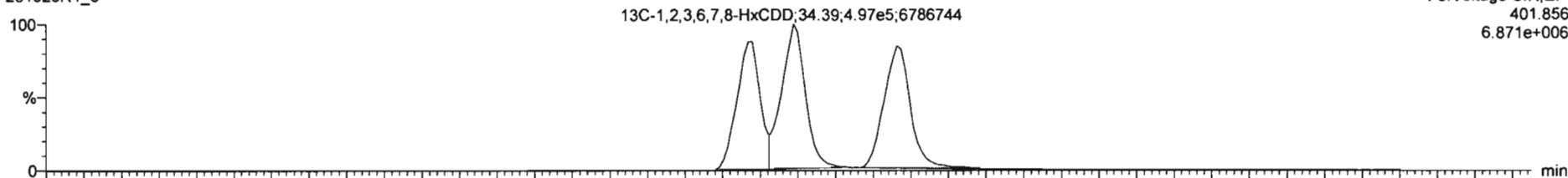
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2.742e+006

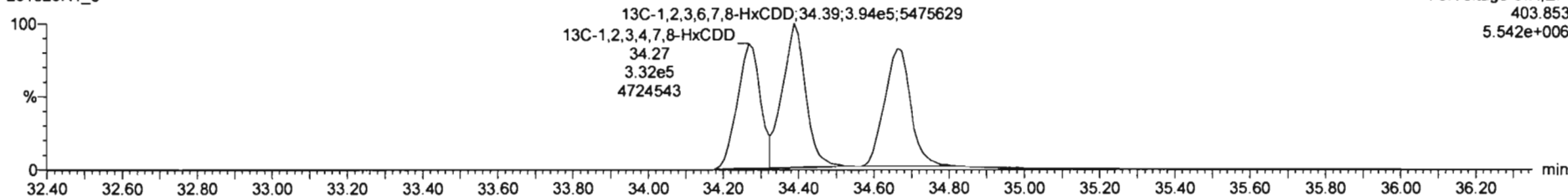
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201020R1_8

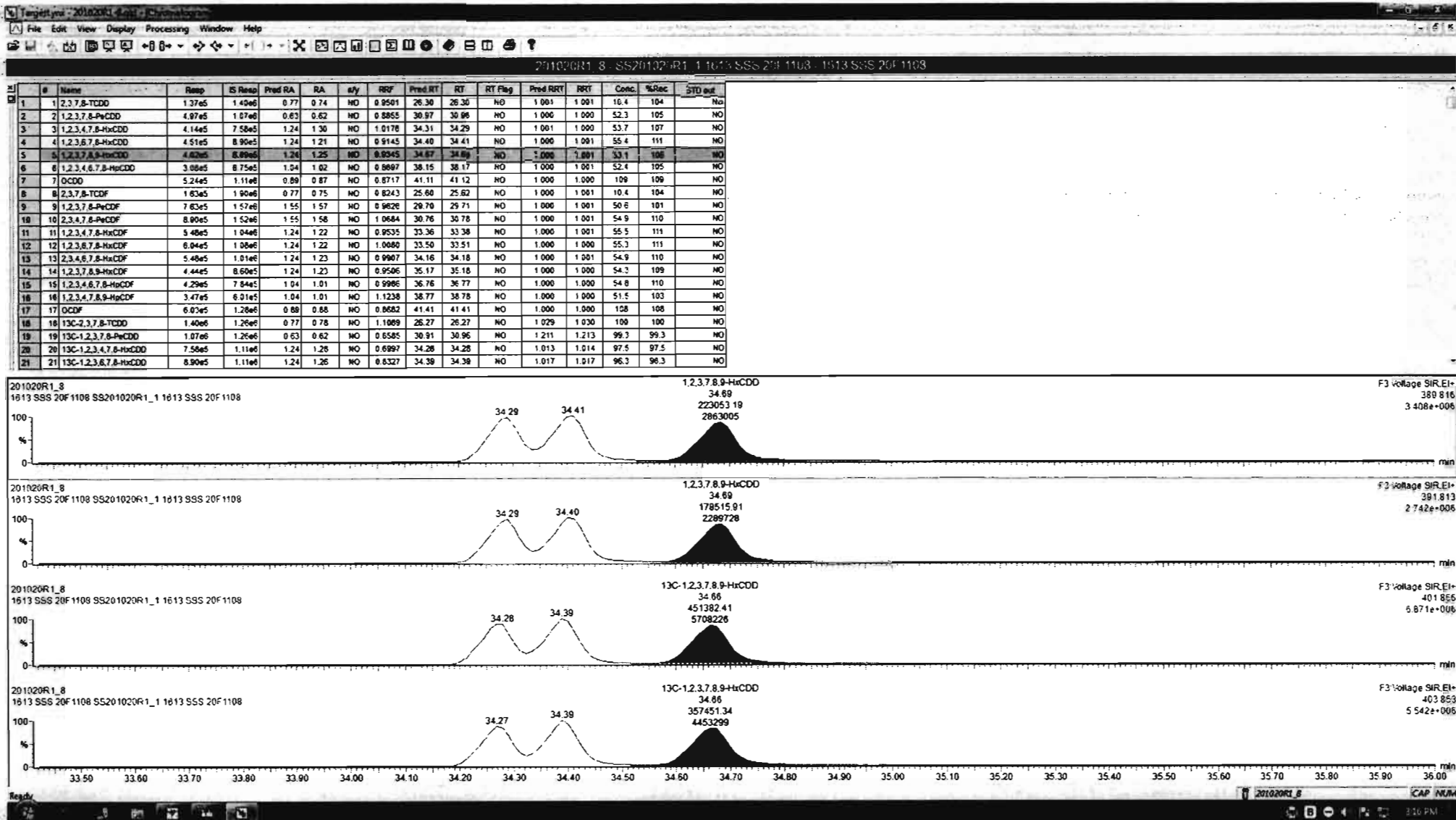


F3:Voltage SIR, EI+
401.856
6.871e+006

201020R1_8



F3:Voltage SIR, EI+
403.853
5.542e+006



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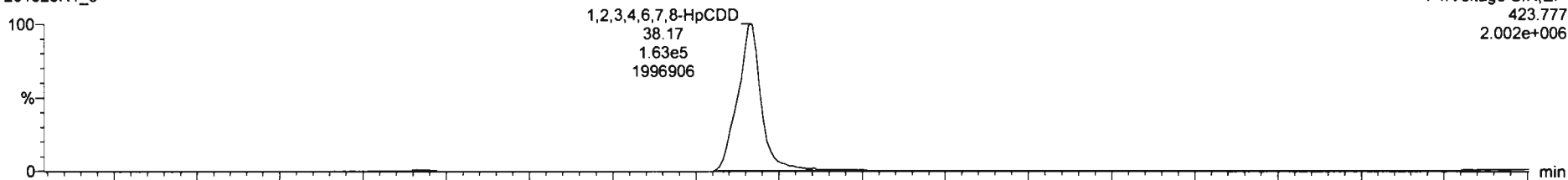
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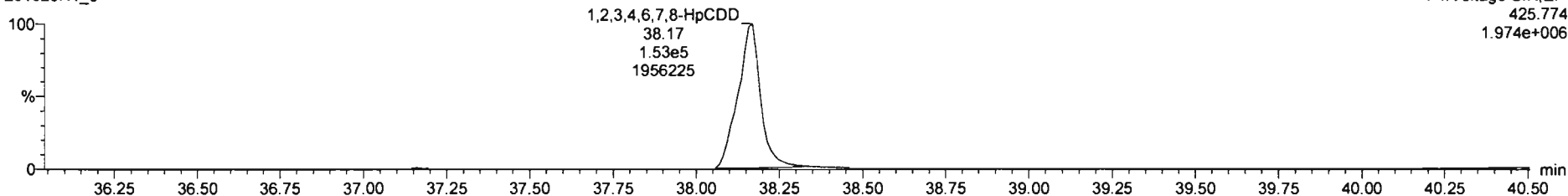
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1,2,3,4,6,7,8-HpCDD

201020R1_8

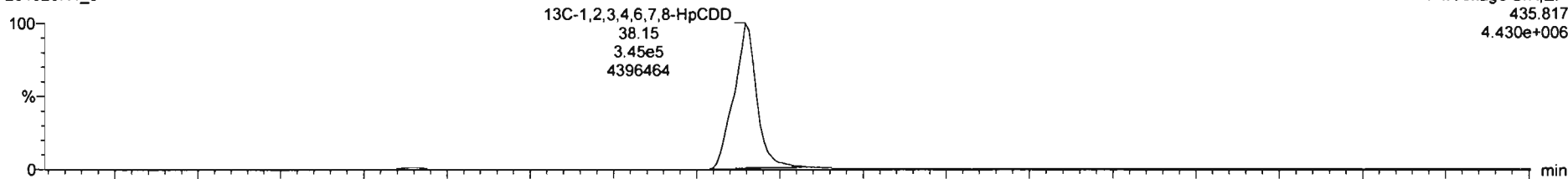


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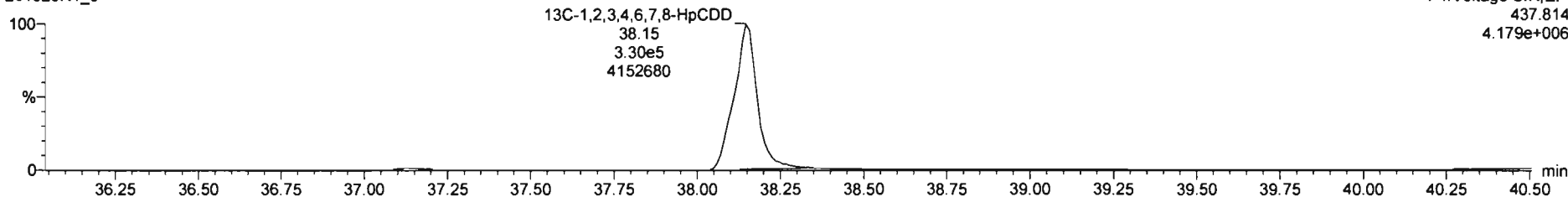


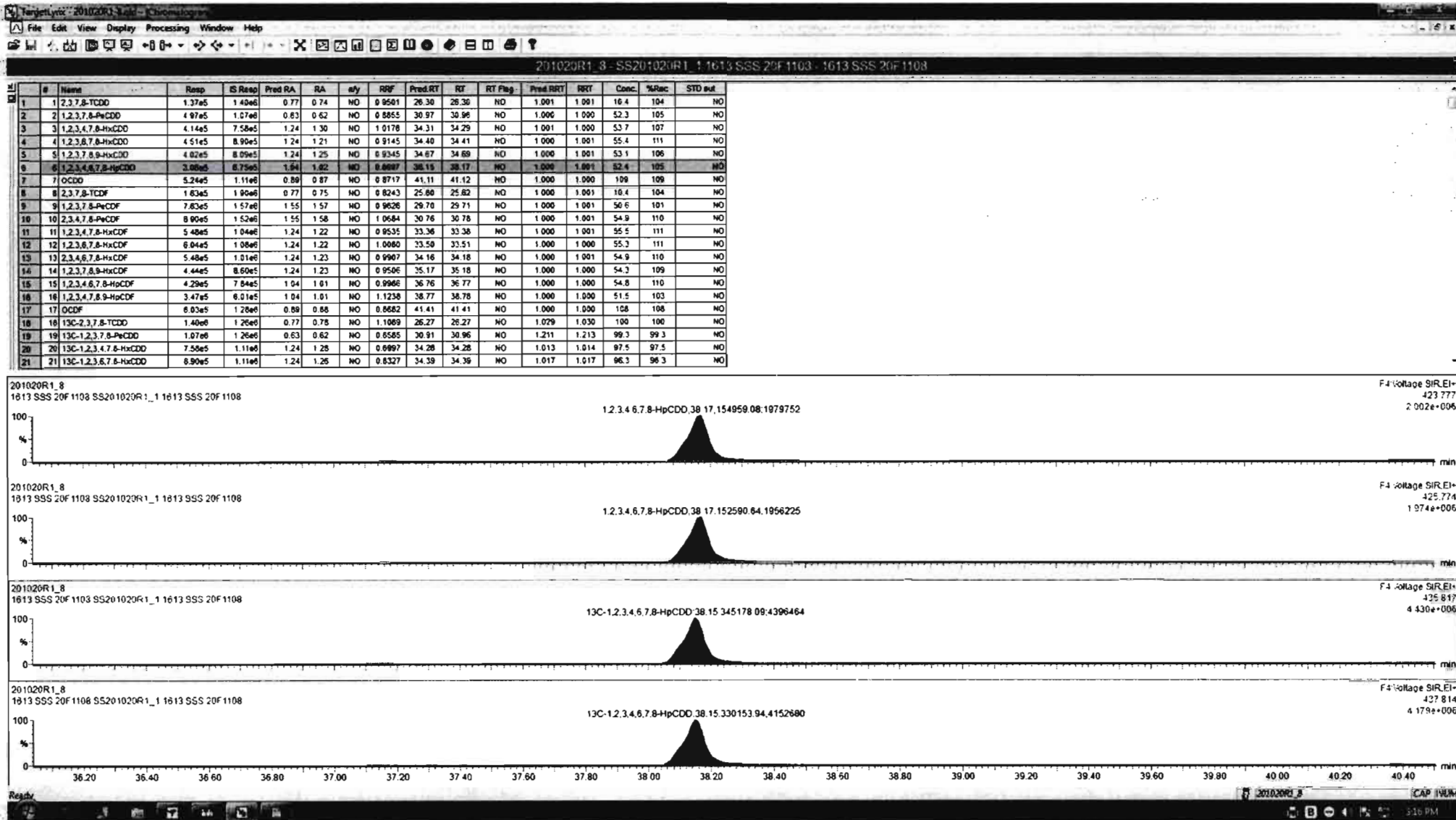
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201020R1_8



201020R1_8





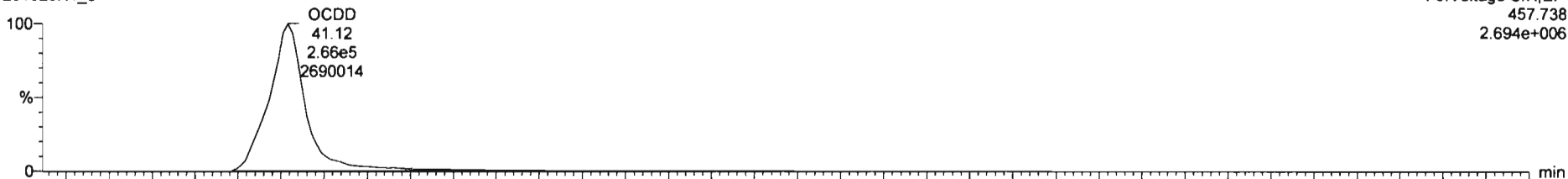
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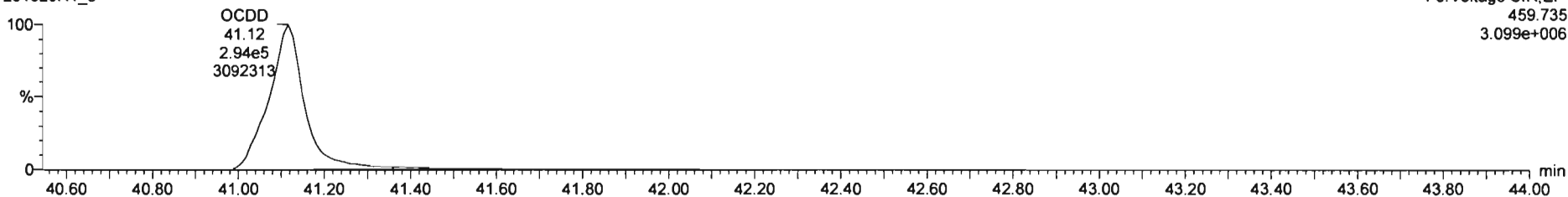
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OCDD

201020R1_8

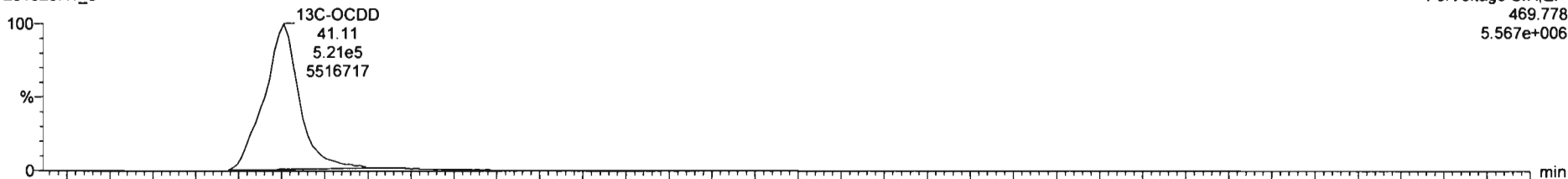


201020R1_8

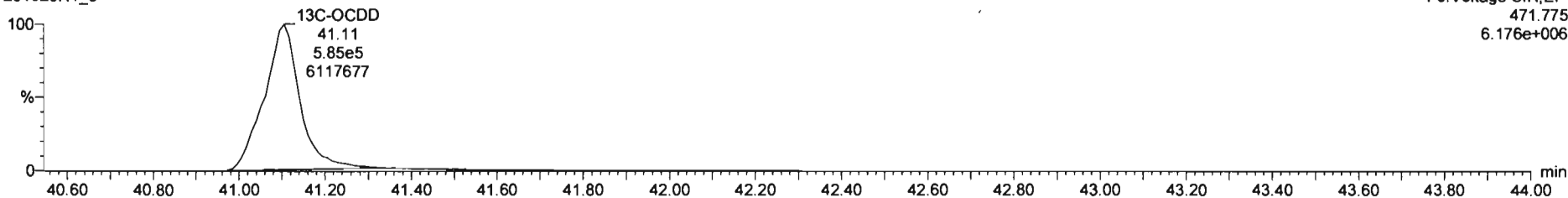


13C-OCDD

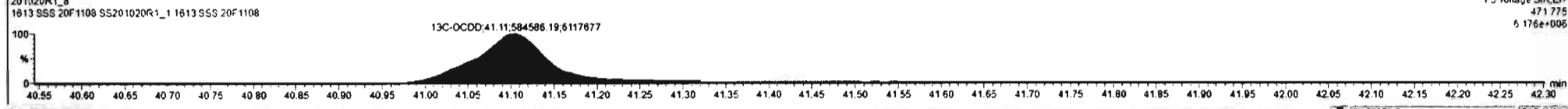
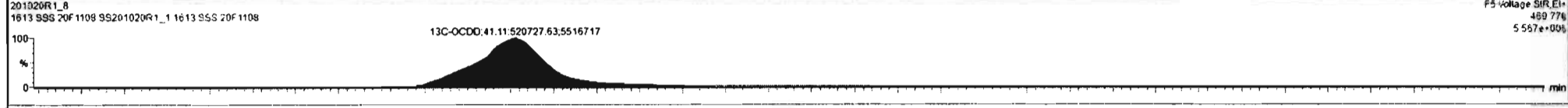
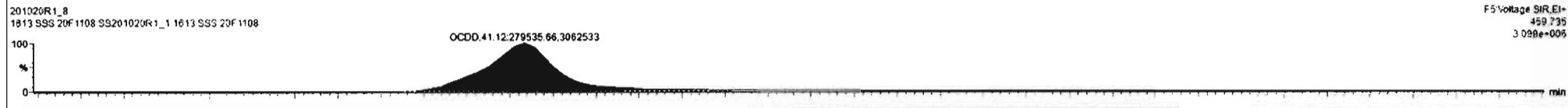
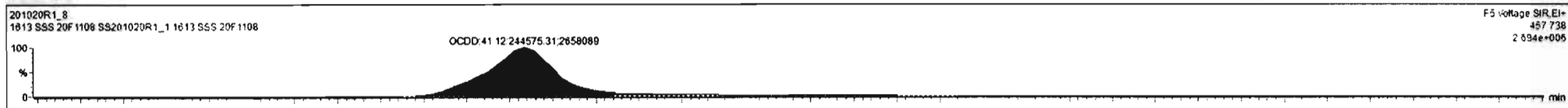
201020R1_8



201020R1_8



#	Name	Resp	IS Resp	Pred RA	RA	sfy	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	2,3,7,8-TCDD	1.37e5	1.48e6	0.77	0.74	NO	0.9501	26.36	26.36	NO	1.001	1.001	10.4	104	NO
2	1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.63	0.62	NO	0.8855	30.97	30.96	NO	1.000	1.000	52.3	105	NO
3	1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.24	1.30	NO	1.0178	34.31	34.29	NO	1.001	1.000	53.7	107	NO
4	1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.24	1.21	NO	0.9145	34.48	34.41	NO	1.000	1.001	55.4	111	NO
5	1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.24	1.25	NO	0.9345	34.67	34.66	NO	1.000	1.001	53.1	106	NO
6	1,2,3,4,6,7,8-HxCDD	3.08e5	6.75e5	1.04	1.02	NO	0.8697	38.15	38.17	NO	1.000	1.001	52.4	105	NO
7	OCDD	8.26e5	1.11e6	0.89	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	100	100	NO
8	2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.8243	25.60	25.62	NO	1.000	1.001	16.4	104	NO
9	1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.55	1.57	NO	0.9826	29.70	29.71	NO	1.000	1.001	50.6	101	NO
10	2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.55	1.58	NO	1.0684	30.76	30.78	NO	1.000	1.001	54.9	110	NO
11	1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.24	1.22	NO	0.9535	33.36	33.36	NO	1.000	1.001	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.24	1.22	NO	1.0060	33.50	33.51	NO	1.000	1.000	55.3	111	NO
13	2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.24	1.23	NO	0.9907	34.16	34.18	NO	1.000	1.001	54.9	110	NO
14	1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.24	1.23	NO	0.9506	35.17	35.18	NO	1.000	1.000	54.3	109	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.04	1.01	NO	0.9866	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	6.03e5	1.28e6	0.89	0.88	NO	0.6682	41.41	41.41	NO	1.000	1.000	108	108	NO
18	13C-2,3,7,8-TCDD	1.40e6	1.26e6	0.77	0.78	NO	1.1089	26.27	26.27	NO	1.029	1.030	100	100	NO
19	13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.63	0.62	NO	0.6585	30.91	30.96	NO	1.211	1.213	98.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.26	NO	0.6997	34.26	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.24	1.26	NO	0.8327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO



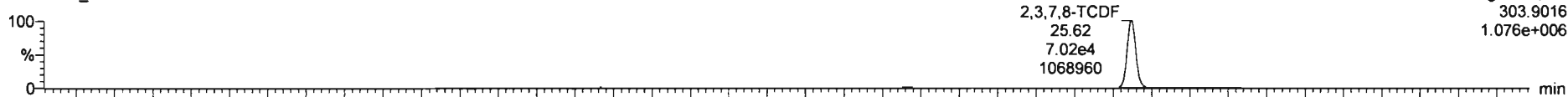
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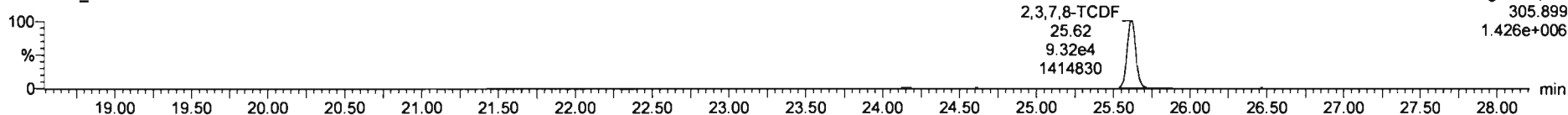
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2,3,7,8-TCDF

201020R1_8

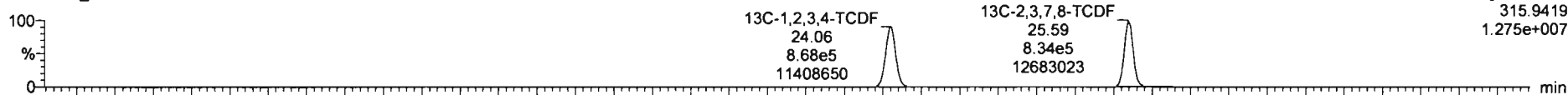


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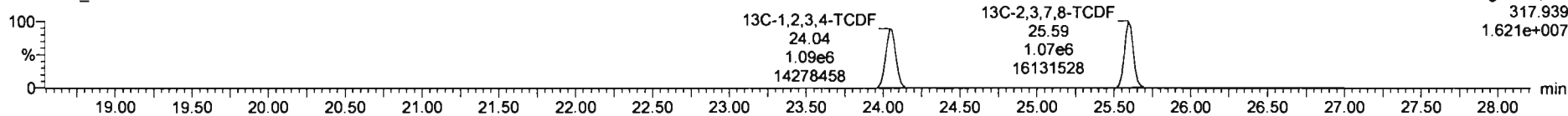


13C-2,3,7,8-TCDF

201020R1_8

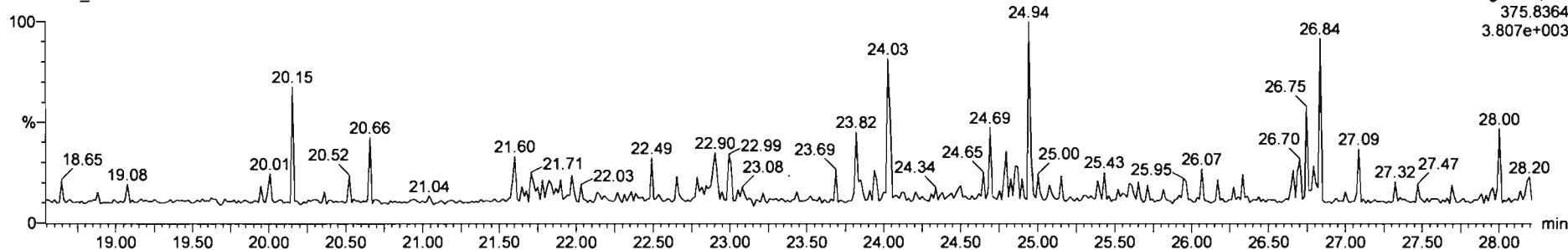


201020R1_8



DPE1

201020R1_8



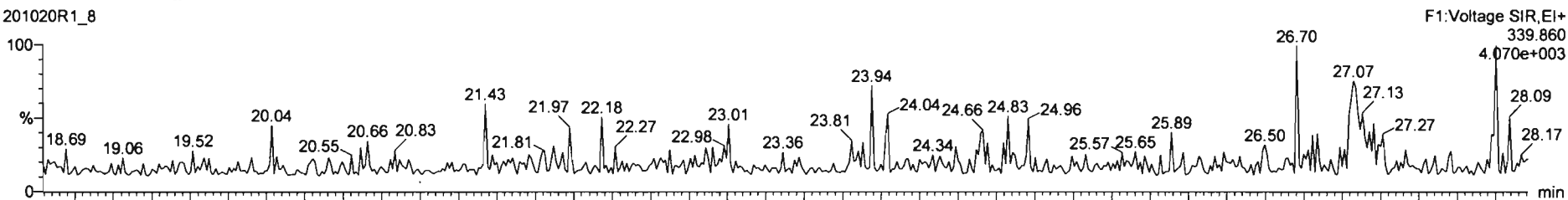
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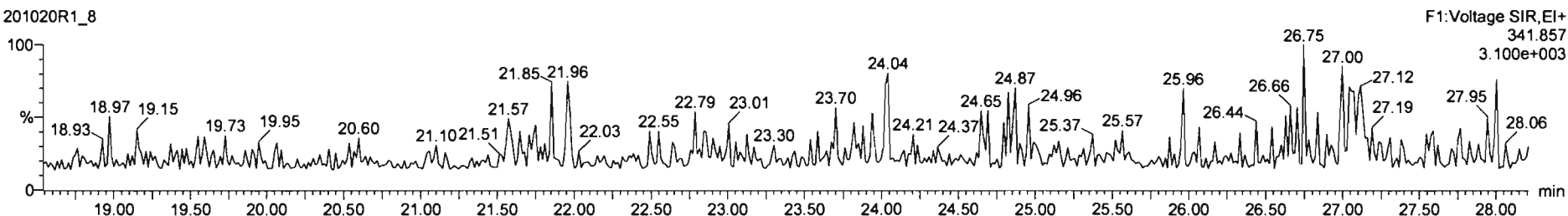
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201020R1_8

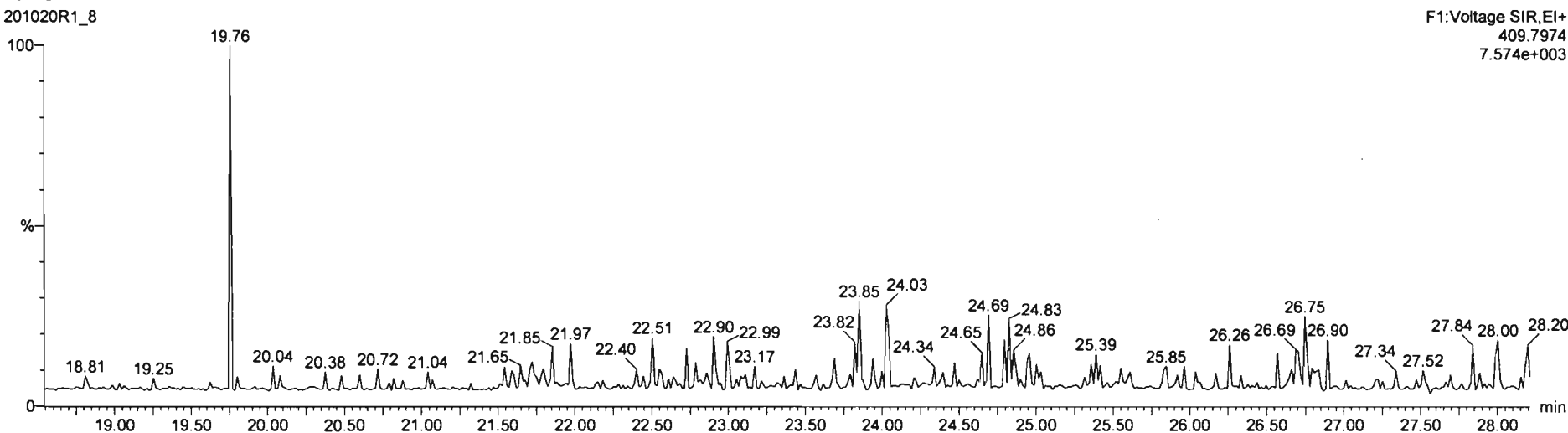


201020R1_8



DPE6

201020R1_8



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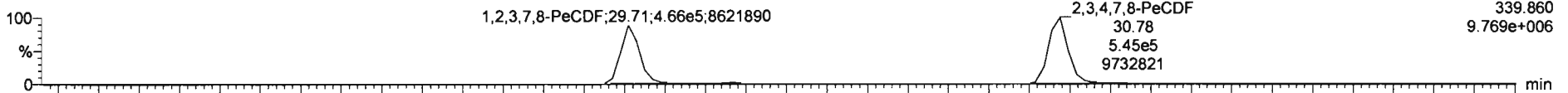
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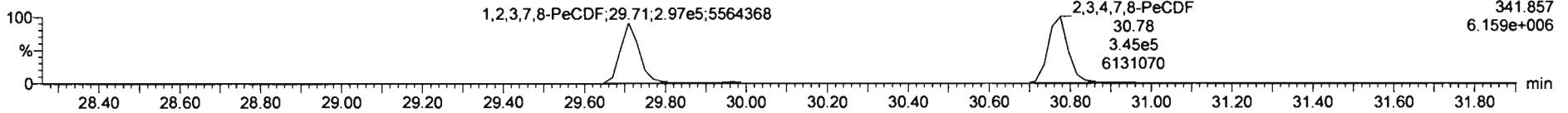
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1,2,3,7,8-PeCDF

201020R1_8



201020R1_8

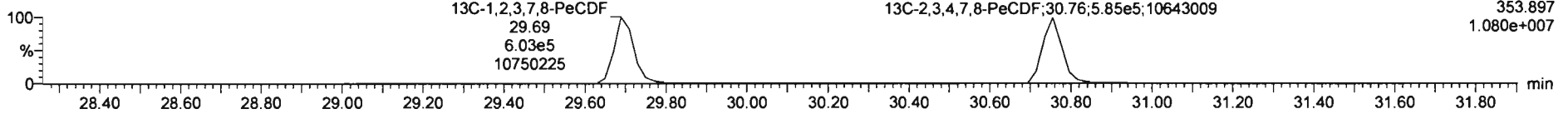


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201020R1_8

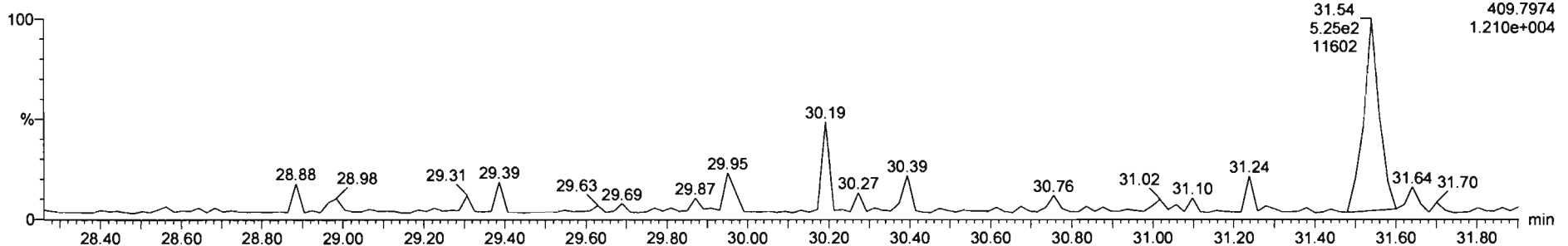


201020R1_8



DPE2

201020R1_8



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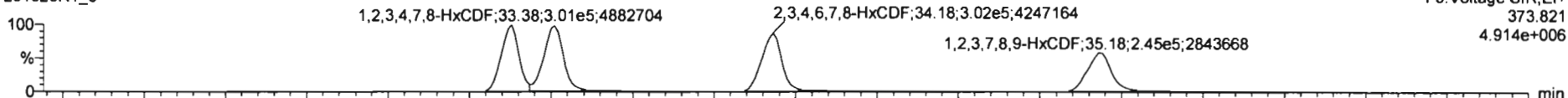
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

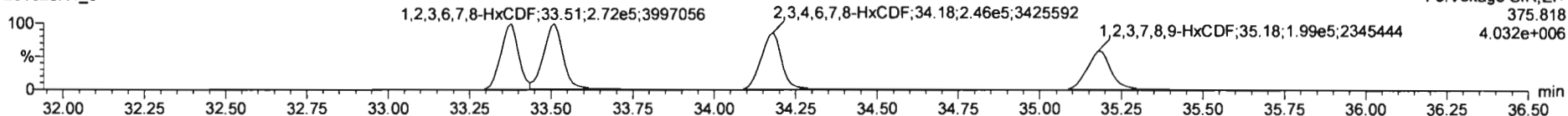
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1,2,3,4,7,8-HxCDF

201020R1_8

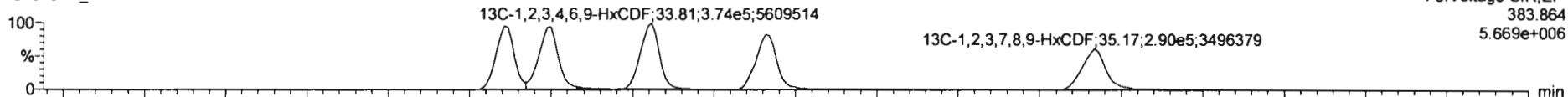


201020R1_8

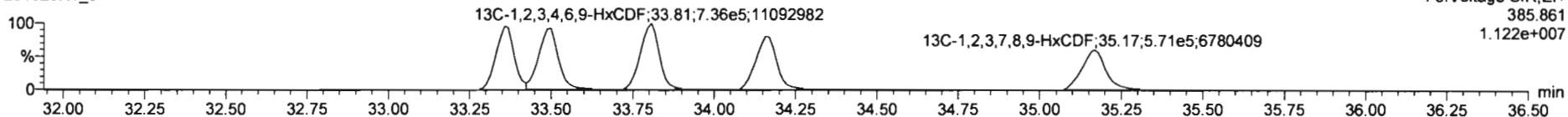


13C-1,2,3,4,7,8-HxCDF

201020R1_8

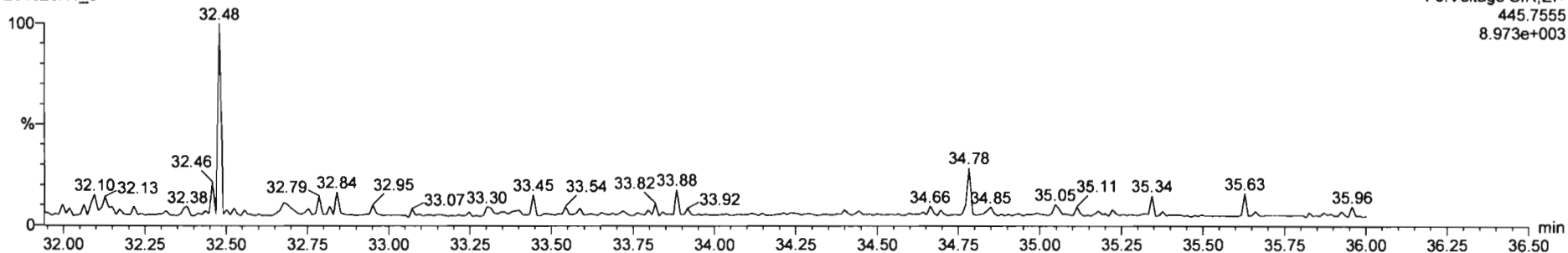


201020R1_8



DPE3

201020R1_8



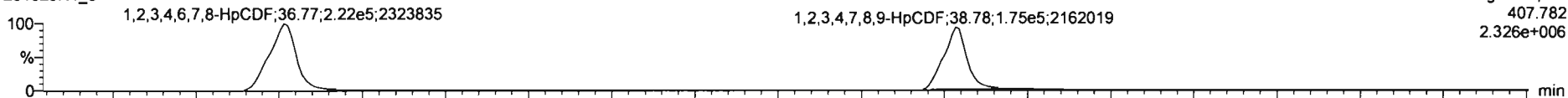
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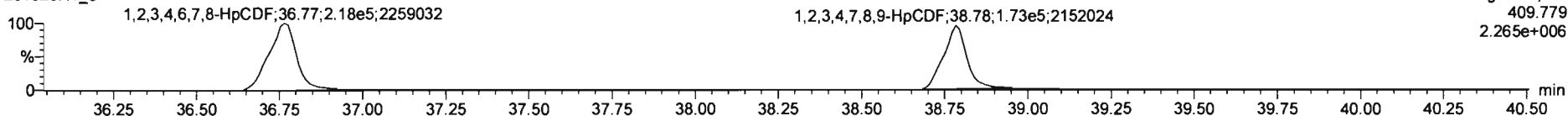
Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

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

201020R1_8

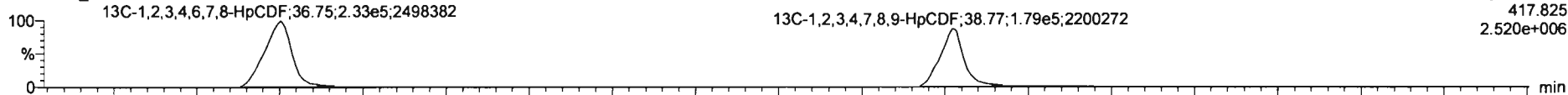


201020R1_8

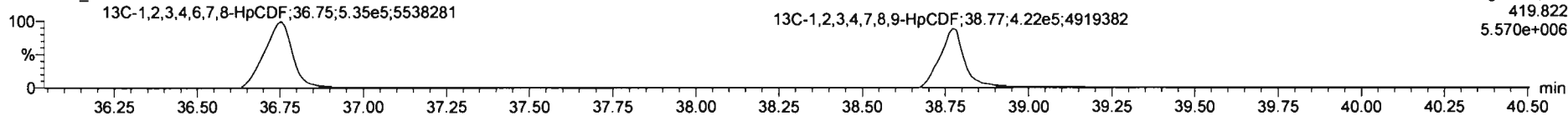


13C-1,2,3,4,6,7,8-HpCDF

201020R1_8

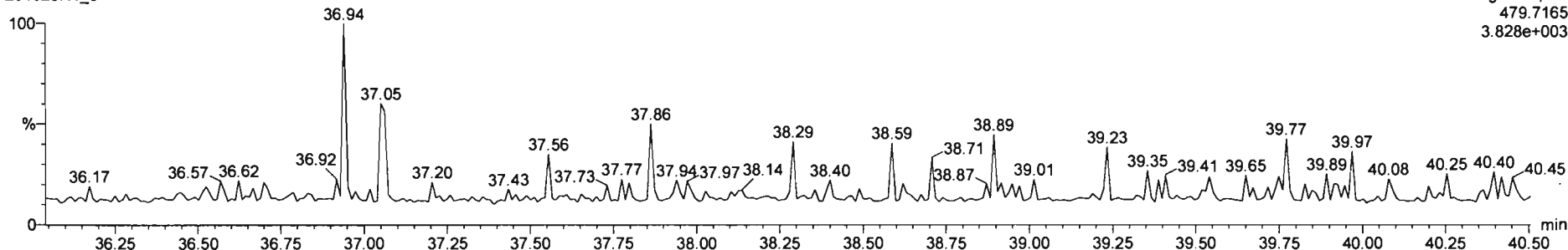


201020R1_8



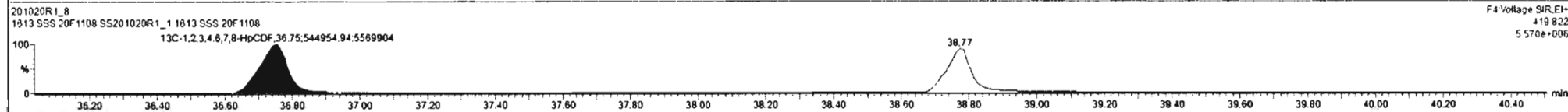
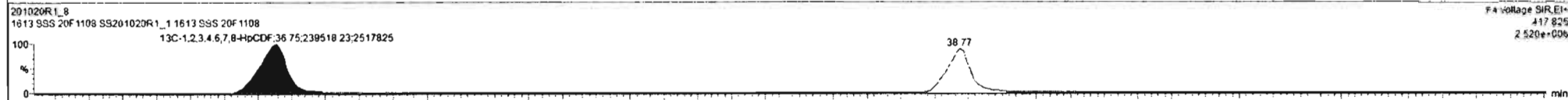
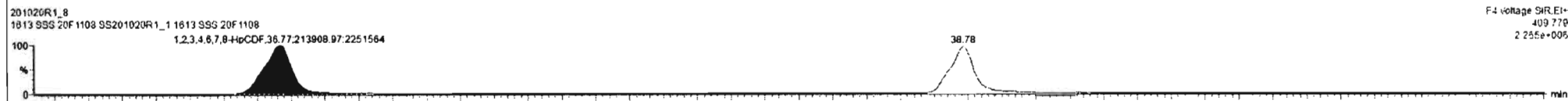
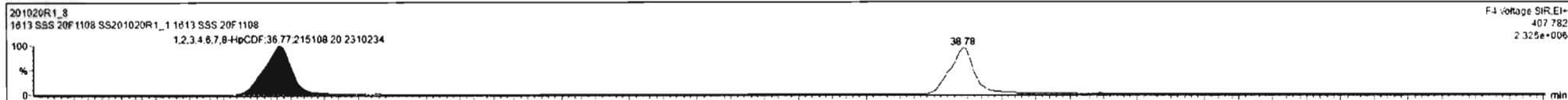
DPE4

201020R1_8



201020R1_8 - SS201020R1_1 1613 SSS 20F 1108 1613 SSS 20F 1108

#	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	1.37e5	1.40e6	0.77	0.74	NO	0.9501	26.30	26.36	NO	1.001	1.001	10.4	104	NO
2	1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.63	0.62	NO	0.8855	30.97	30.96	NO	1.000	1.000	52.3	105	NO
3	1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.24	1.30	NO	1.0178	34.31	34.29	NO	1.001	1.000	53.7	107	NO
4	1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.24	1.21	NO	0.9145	34.40	34.41	NO	1.000	1.001	55.4	111	NO
5	1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.24	1.25	NO	0.9345	34.67	34.69	NO	1.000	1.001	53.1	106	NO
6	1,2,3,4,6,7,8-HpCDD	3.08e5	6.75e5	1.04	1.02	NO	0.8697	38.15	38.17	NO	1.000	1.001	52.4	105	NO
7	OCDD	5.24e5	1.11e6	0.89	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	109	109	NO
8	2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.9243	25.80	25.82	NO	1.006	1.001	16.4	104	NO
9	1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.55	1.57	NO	0.9626	29.70	29.71	NO	1.006	1.001	50.6	101	NO
10	1,2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.55	1.58	NO	1.0664	30.76	30.78	NO	1.000	1.001	54.9	110	NO
11	1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.24	1.22	NO	0.9535	33.36	33.38	NO	1.000	1.001	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	6.94e5	1.08e6	1.24	1.22	NO	1.0080	33.50	33.51	NO	1.000	1.000	55.3	111	NO
13	1,2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.24	1.23	NO	0.9907	34.16	34.18	NO	1.000	1.001	54.9	110	NO
14	1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.24	1.23	NO	0.9506	35.17	35.18	NO	1.000	1.000	54.3	109	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.04	1.01	NO	0.9906	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.01e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	6.03e5	1.28e6	0.89	0.88	NO	0.6682	41.41	41.41	NO	1.000	1.000	108	108	NO
18	13C-2,3,7,8-TCDD	1.40e6	1.26e6	0.77	0.78	NO	1.1089	26.27	26.27	NO	1.079	1.030	100	100	NO
19	13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.63	0.62	NO	0.8585	30.91	30.96	NO	1.211	1.213	99.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.28	NO	0.8997	34.26	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	8.90e5	1.11e6	1.24	1.26	NO	0.8327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO



Dataset: Untitled

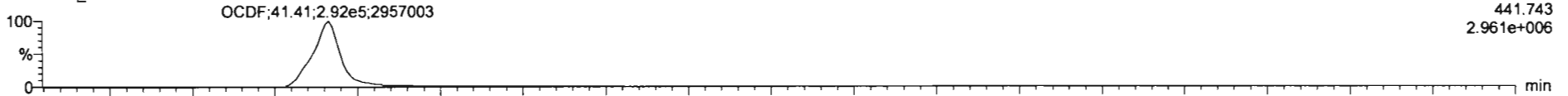
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Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

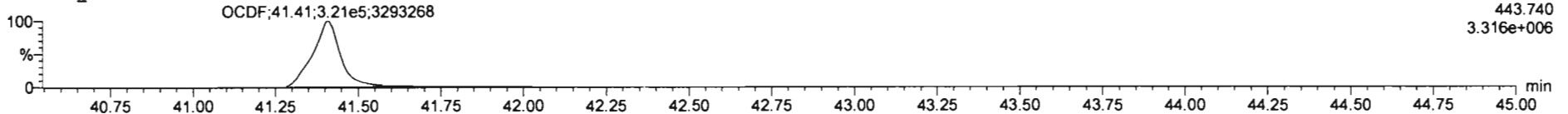
Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108

OCDF

201020R1_8

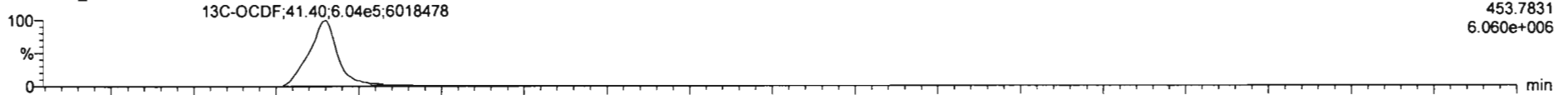


201020R1_8

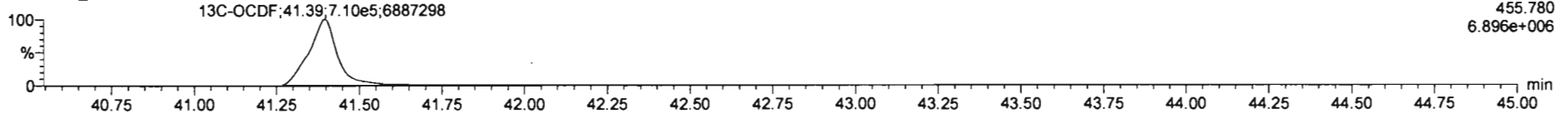


13C-OCDF

201020R1_8

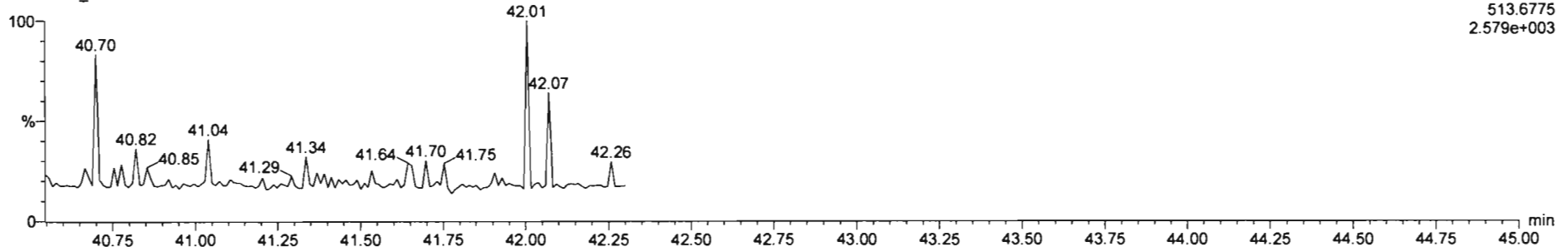


201020R1_8

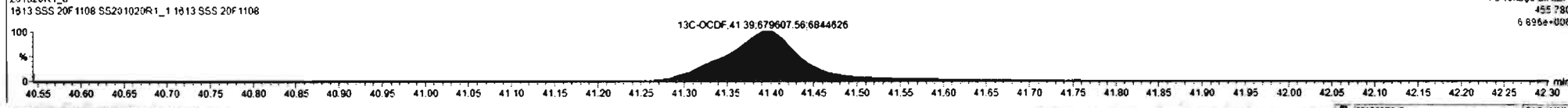
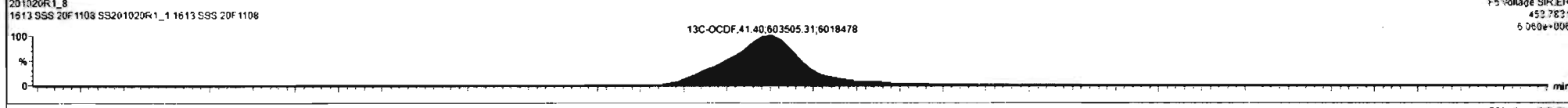
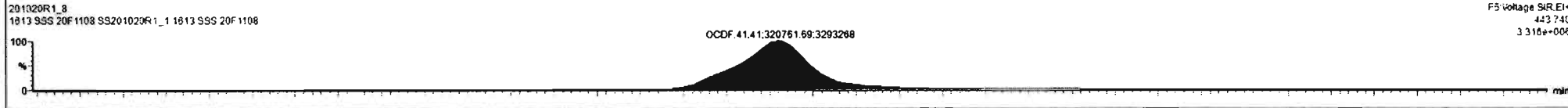
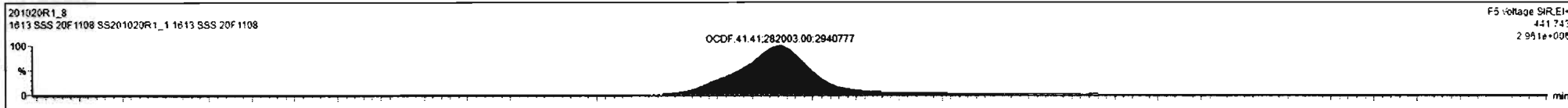


DPE5

201020R1_8



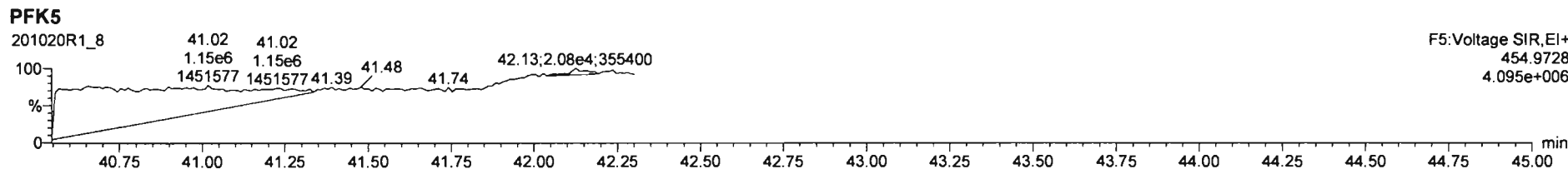
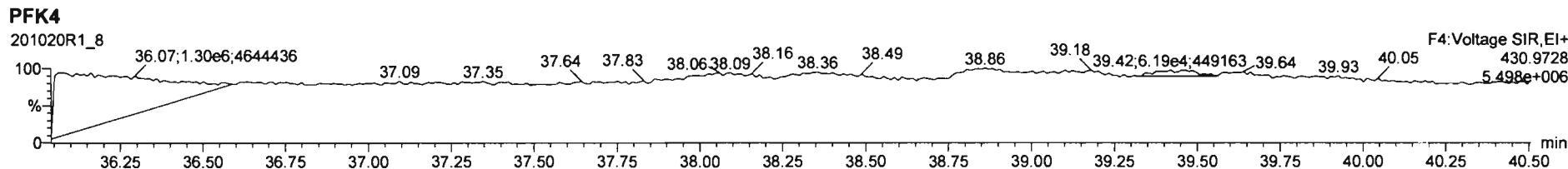
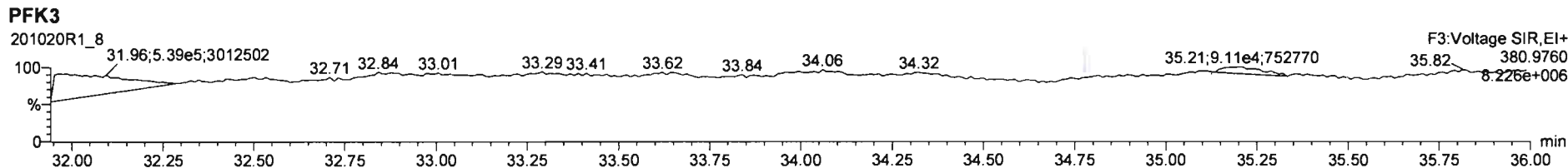
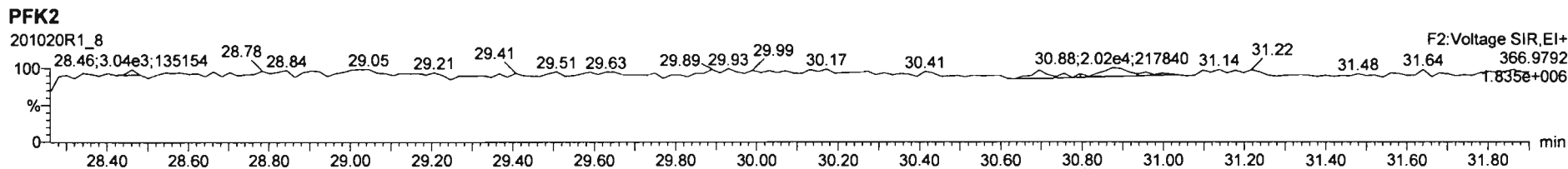
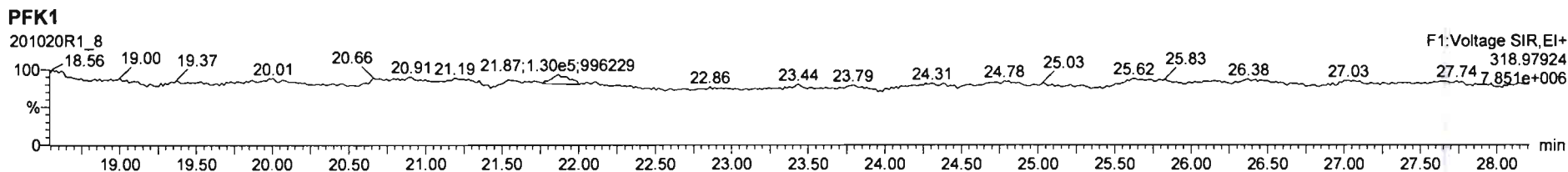
#	Name	Resp	IS Resp	Pred RA	RA	aly	RPF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc.	%Rec	STD out
1	1,2,3,7,8-TCDD	1.37e5	1.40e6	0.77	0.74	NO	0.9501	26.30	26.30	NO	1.001	1.001	16.4	104	NO
2	1,2,3,7,8-PeCDD	4.97e5	1.07e6	0.63	0.62	NO	0.8855	30.97	30.96	NO	1.000	1.000	52.3	105	NO
3	1,2,3,4,7,8-HxCDD	4.14e5	7.58e5	1.24	1.30	NO	1.0178	34.31	34.29	NO	1.001	1.000	53.7	107	NO
4	1,2,3,6,7,8-HxCDD	4.51e5	8.90e5	1.24	1.21	NO	0.9145	34.40	34.41	NO	1.000	1.001	55.4	111	NO
5	1,2,3,7,8,9-HxCDD	4.02e5	8.09e5	1.24	1.25	NO	0.9345	34.67	34.69	NO	1.000	1.001	53.1	106	NO
6	1,2,3,4,6,7,8-HpCDD	3.08e5	6.75e5	1.04	1.02	NO	0.8697	38.15	38.17	NO	1.000	1.001	52.4	105	NO
7	OCDF	5.24e5	1.11e6	0.89	0.87	NO	0.8717	41.11	41.12	NO	1.000	1.000	109	109	NO
8	1,2,3,7,8-TCDF	1.63e5	1.90e6	0.77	0.75	NO	0.8243	25.88	25.62	NO	1.000	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	7.63e5	1.57e6	1.55	1.57	NO	0.9826	29.70	29.71	NO	1.000	1.001	50.6	101	NO
10	1,2,3,4,7,8-PeCDF	8.90e5	1.52e6	1.55	1.58	NO	1.0684	30.76	30.78	NO	1.000	1.001	54.9	110	NO
11	1,2,3,4,7,8-HxCDF	5.48e5	1.04e6	1.24	1.22	NO	0.9535	33.36	33.38	NO	1.000	1.001	55.5	111	NO
12	1,2,3,6,7,8-HxCDF	6.04e5	1.08e6	1.24	1.22	NO	1.0080	33.50	33.51	NO	1.000	1.000	55.3	111	NO
13	1,2,3,4,6,7,8-HxCDF	5.48e5	1.01e6	1.24	1.23	NO	0.9907	34.16	34.18	NO	1.000	1.001	54.9	110	NO
14	1,2,3,7,8,9-HxCDF	4.44e5	8.60e5	1.24	1.23	NO	0.9506	35.17	35.18	NO	1.000	1.000	54.3	109	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	7.84e5	1.04	1.01	NO	0.9086	36.76	36.77	NO	1.000	1.000	54.8	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.47e5	6.91e5	1.04	1.01	NO	1.1238	38.77	38.78	NO	1.000	1.000	51.5	103	NO
17	OCDF	8.85e5	1.28e6	0.89	0.88	NO	0.8852	41.41	41.41	NO	1.000	1.000	108	108	NO
18	13C-1,2,3,7,8-TCDD	1.40e6	1.26e6	0.77	0.78	NO	1.1089	26.27	26.27	NO	1.029	1.030	100	100	NO
19	13C-1,2,3,7,8-PeCDD	1.07e6	1.26e6	0.63	0.62	NO	0.8585	30.91	30.96	NO	1.211	1.213	96.3	99.3	NO
20	13C-1,2,3,4,7,8-HxCDD	7.58e5	1.11e6	1.24	1.26	NO	0.8997	34.26	34.28	NO	1.013	1.014	97.5	97.5	NO
21	13C-1,2,3,6,7,8-HxCDD	6.90e5	1.11e6	1.24	1.26	NO	0.8327	34.39	34.39	NO	1.017	1.017	96.3	96.3	NO



Dataset: Untitled

Last Altered: Tuesday, October 20, 2020 15:17:24 Pacific Daylight Time
Printed: Tuesday, October 20, 2020 15:17:27 Pacific Daylight Time

Name: 201020R1_8, Date: 20-Oct-2020, Time: 14:29:33, ID: SS201020R1_1 1613 SSS 20F1108, Description: 1613 SSS 20F1108



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

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Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	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%:11

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\2\1203R2\201203R2_CRV.qld

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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

Vista Analytical Laboratory

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-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

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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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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Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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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

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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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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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: 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

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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

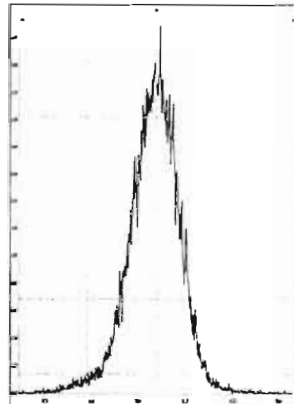
	Name	ID	Acq.Date	Acq.Time
1	201203R2_1	ST201203R2_1 1613 CS0 20K1901	03-Dec-20	10:36:45
2	201203R2_2	ST201203R2_2 1613 CS1 20K1902	03-Dec-20	11:28:04
3	201203R2_3	ST201203R2_3 1613 CS2 20K1903	03-Dec-20	12:14:40
4	201203R2_4	ST201203R2_4 1613 CS4 20L0302	03-Dec-20	13:00:37
5	201203R2_5	ST201203R2_5 1613 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			
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

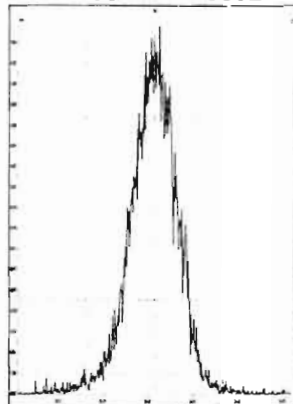
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:30:53 Pacific Standard Time

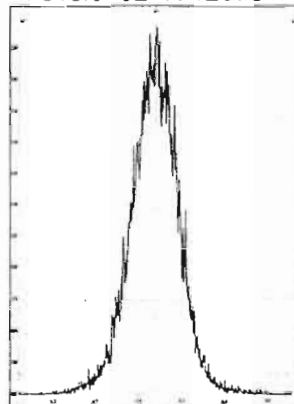
M 292.9824 R 12690



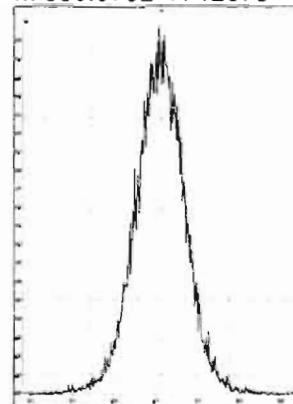
M 304.9824 R 13892



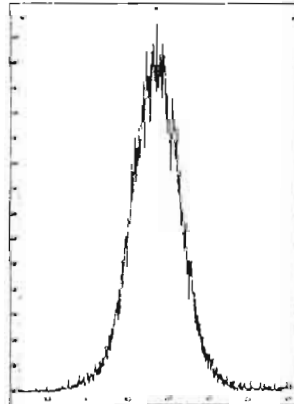
M 318.9792 R 12078



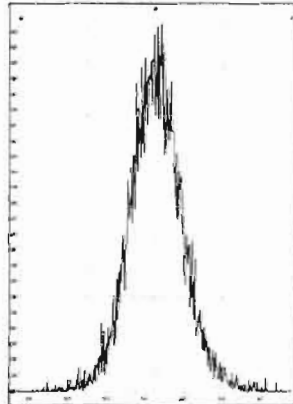
M 330.9792 R 12075



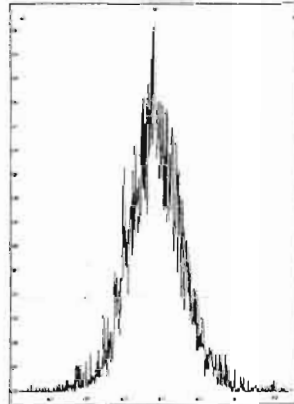
M 342.9792 R 12132



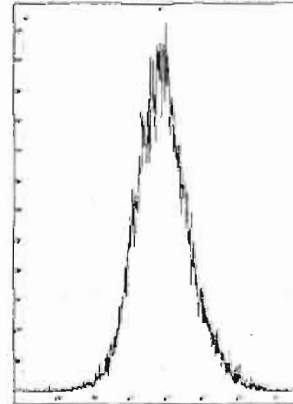
M 354.9792 R 11681



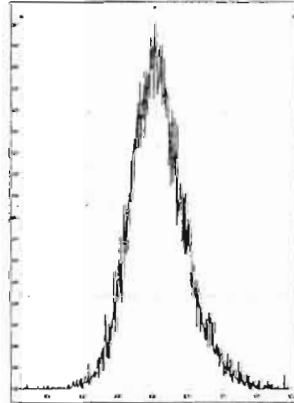
M 366.9792 R 14120



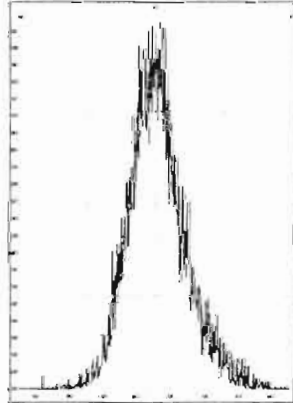
M 380.9760 R 10504



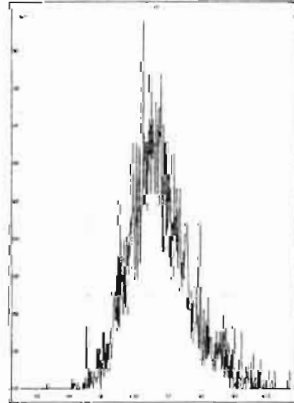
M 392.9760 R 10962



M 404.9760 R 11261



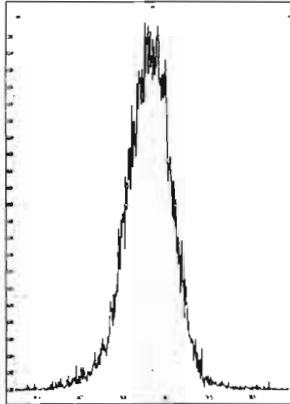
M 416.9760 R 10506



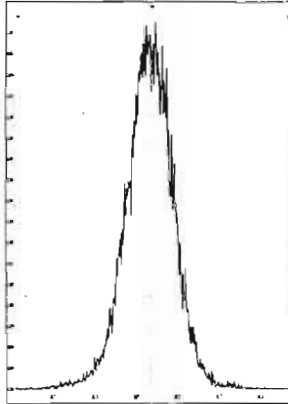
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:32:05 Pacific Standard Time

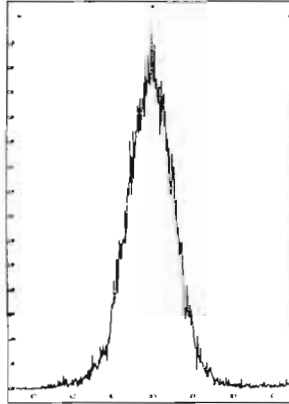
M 318.9792 R 12626



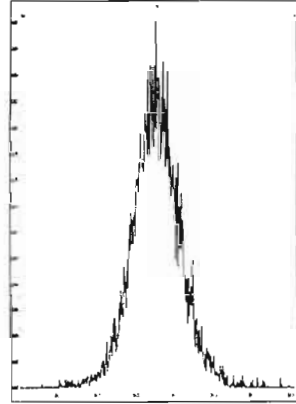
M 330.9792 R 12258



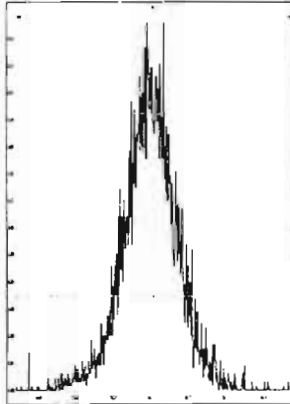
M 342.9792 R 11900



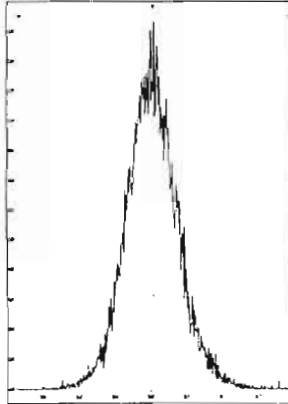
M 354.9792 R 12561



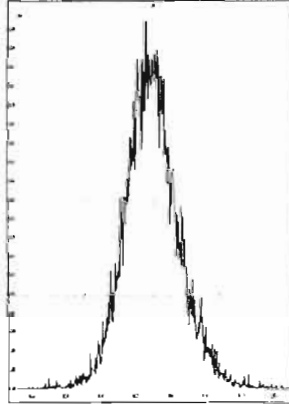
M 366.9792 R 12888



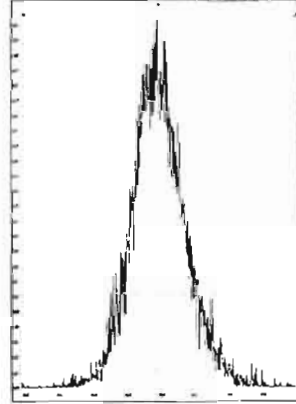
M 380.9760 R 11520



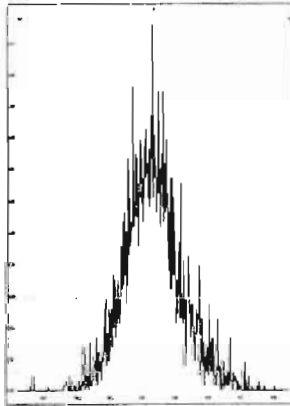
M 392.9760 R 11208



M 404.9760 R 11961



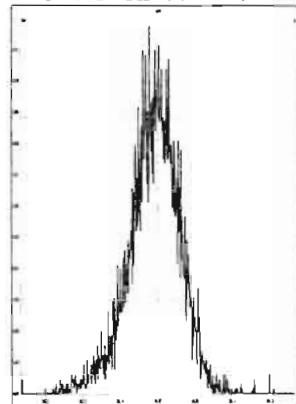
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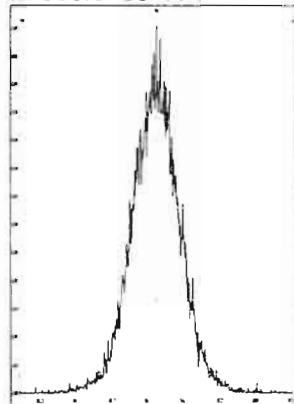
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Printed: Thursday, December 03, 2020 10:33:04 Pacific Standard Time

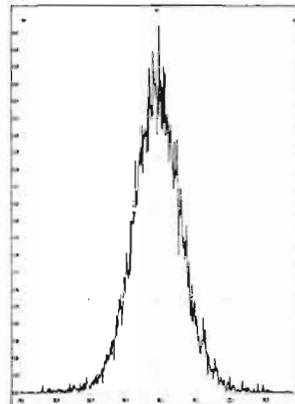
M 366.9792 R 11850



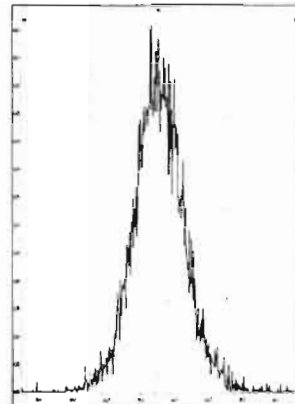
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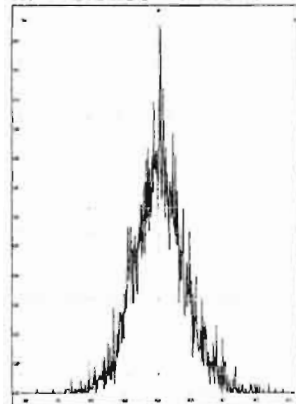
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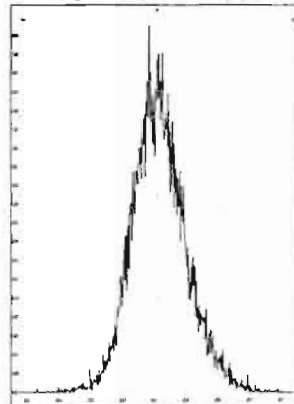
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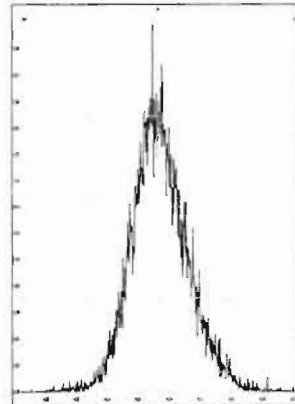
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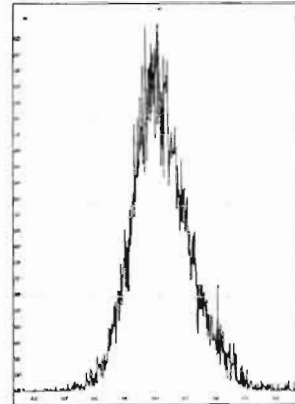
M 430.9728 R 11063



M 442.9728 R 10593



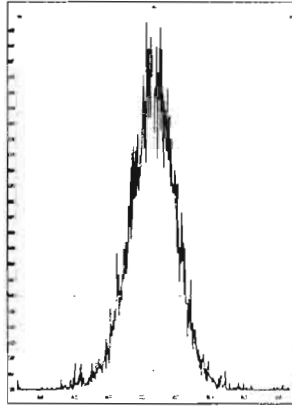
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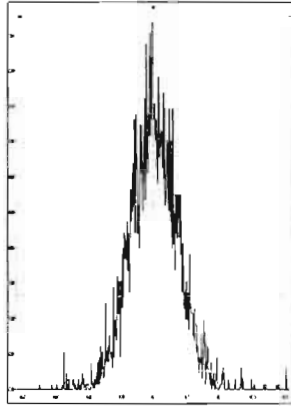
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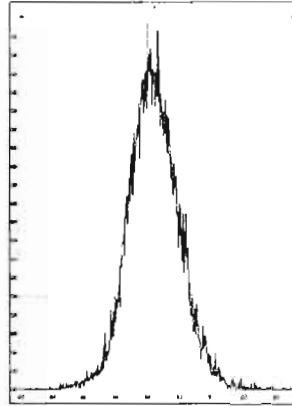
M 404.9760 R 13017



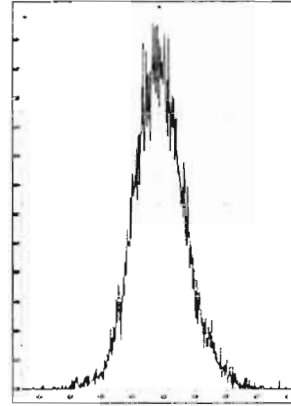
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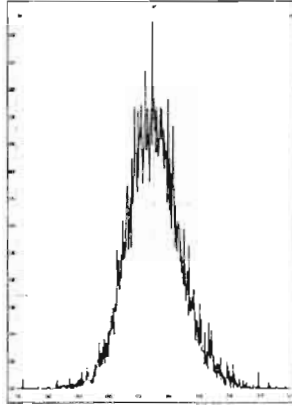
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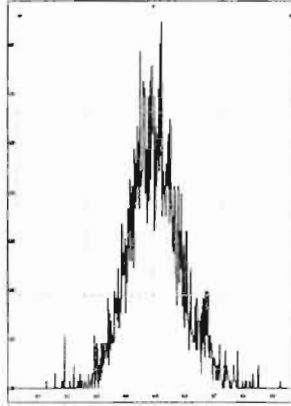
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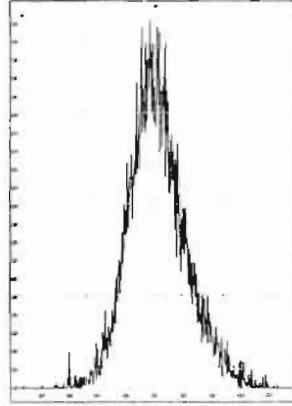
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M 466.9728 R 11679



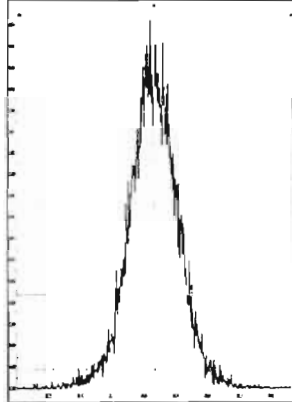
M 480.9696 R 11363



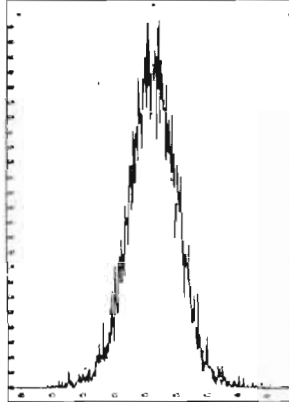
File: Experiment: OCDD_DIOXIN.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, December 03, 2020 10:34:39 Pacific Standard Time

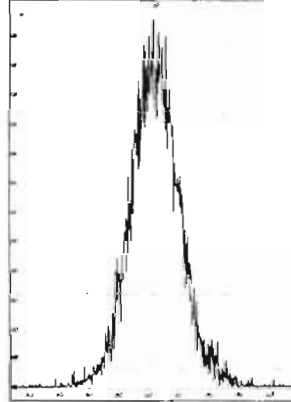
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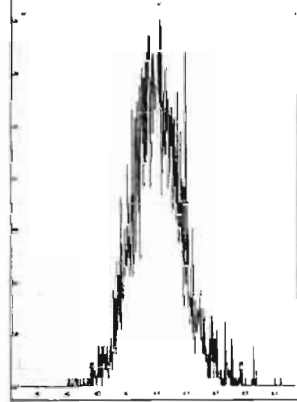
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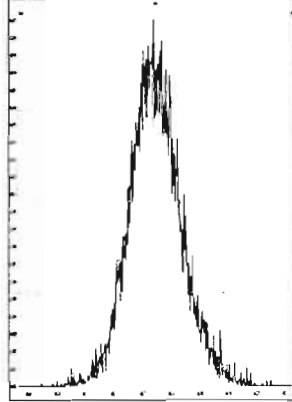
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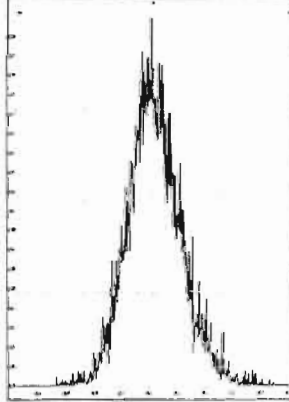
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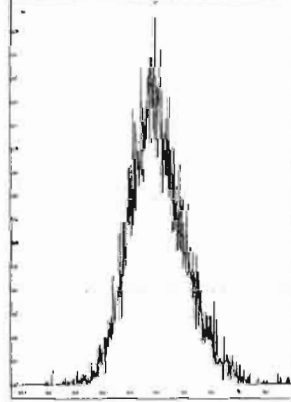
M 480.9696 R 12021



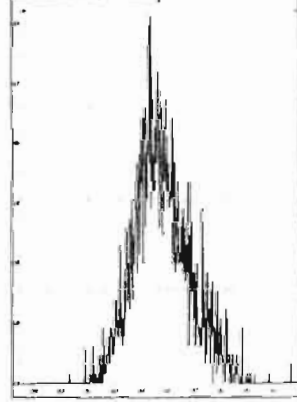
M 492.9696 R 11261



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

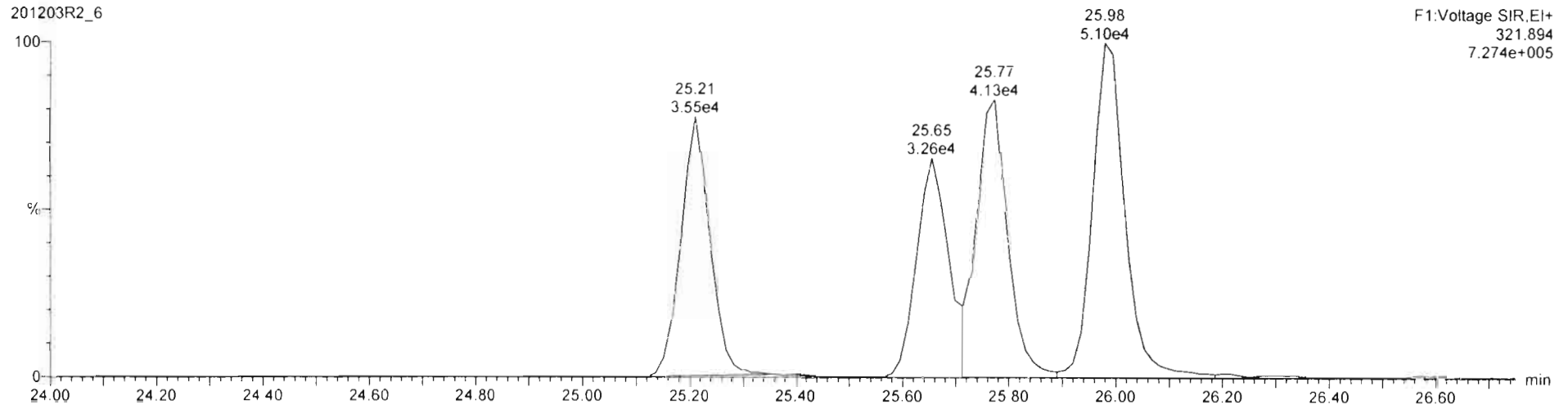
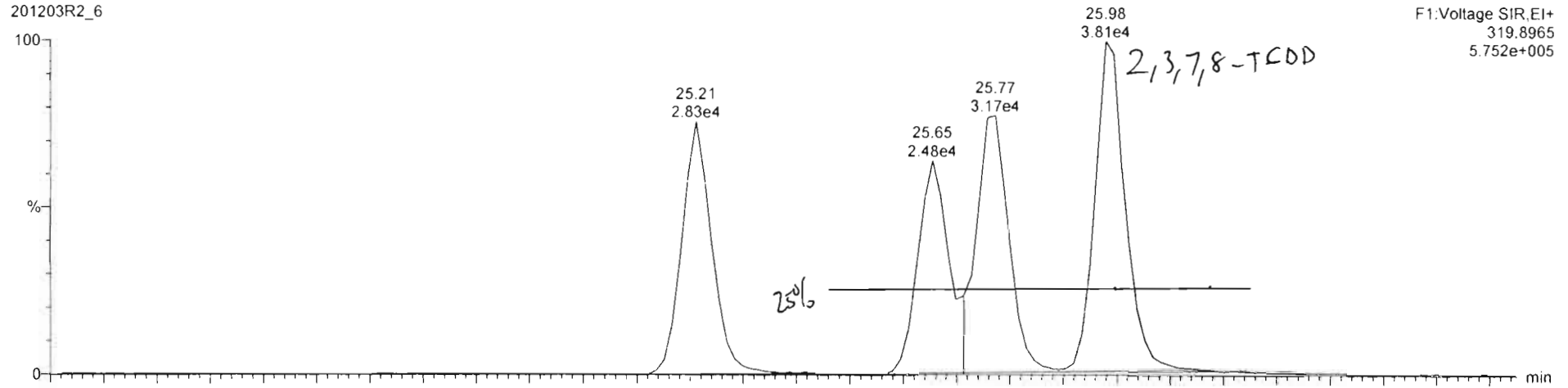
Last Altered: Friday, December 04, 2020 12:14:23 Pacific Standard Time
Printed: Friday, December 04, 2020 12:21:02 Pacific Standard Time

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

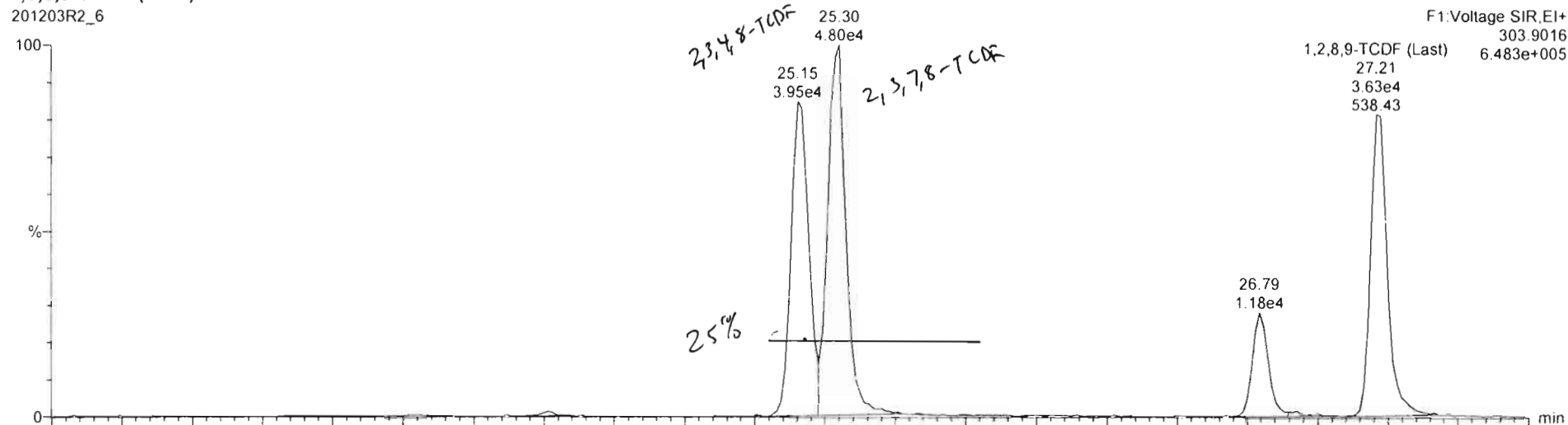
Last Altered: Friday, December 04, 2020 12:14:23 Pacific Standard Time
Printed: Friday, December 04, 2020 12:21:02 Pacific Standard Time

FIN 12/04/2020

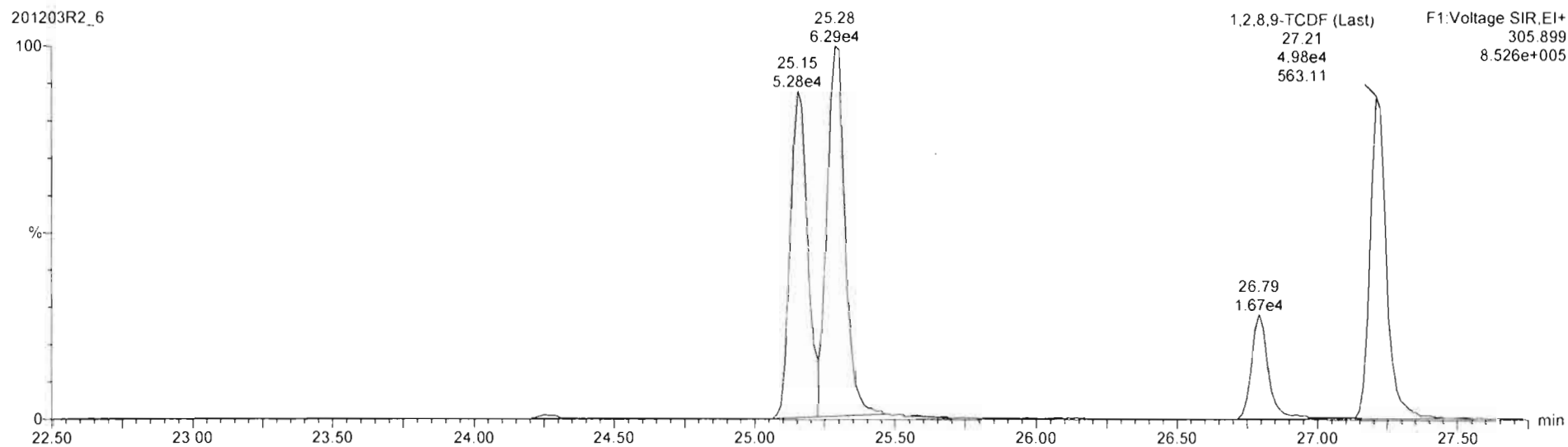
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,3,6,8-TCDF (First)

201203R2_6



201203R2_6



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

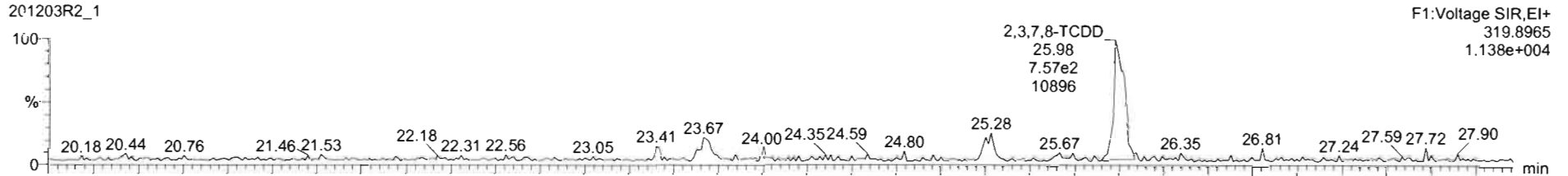
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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

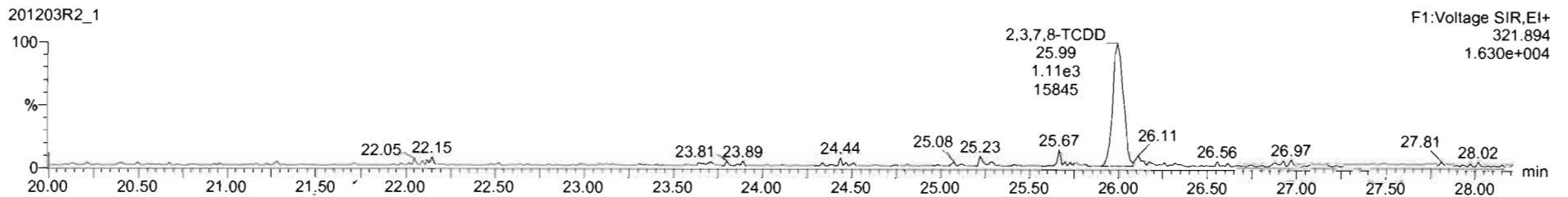
Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

2,3,7,8-TCDD

201203R2_1

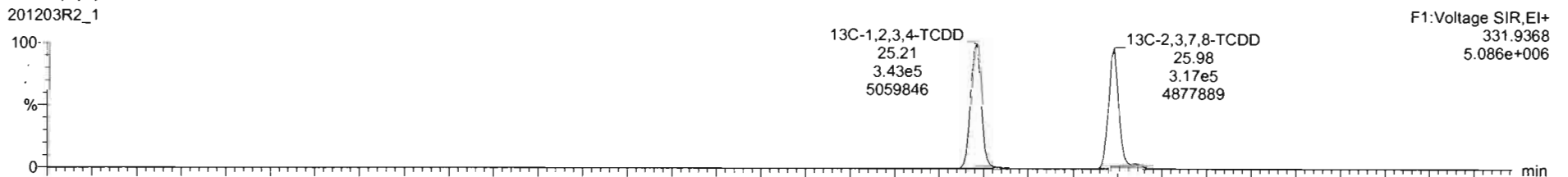


201203R2_1

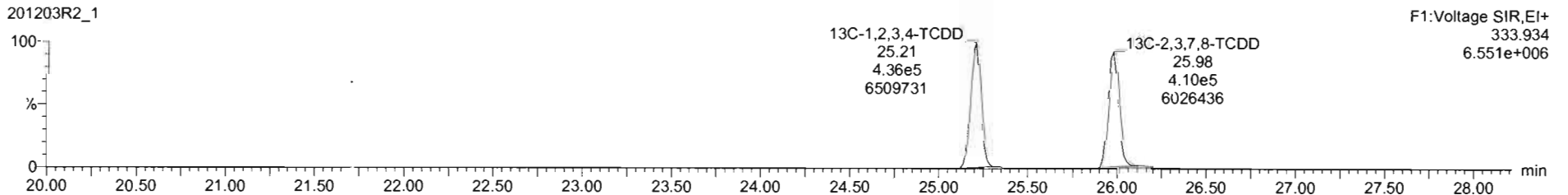


¹³C-2,3,7,8-TCDD

201203R2_1



201203R2_1

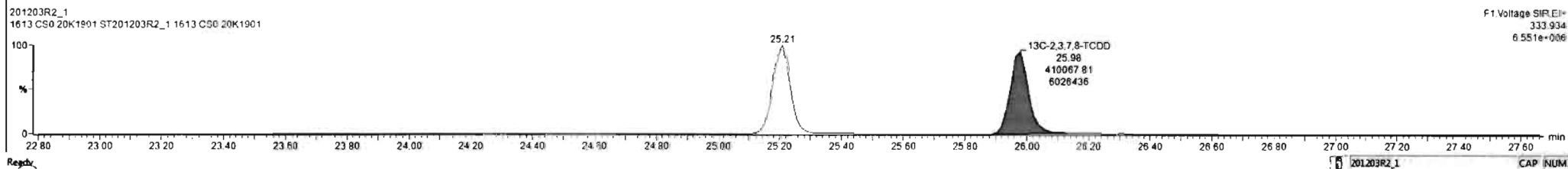
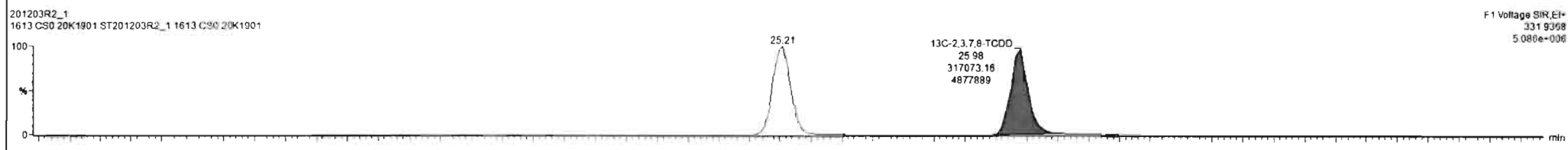
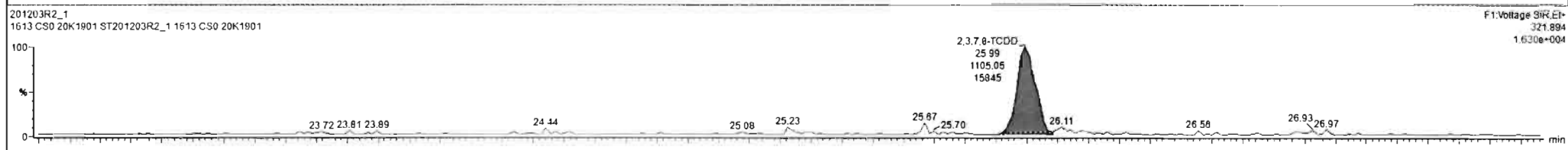
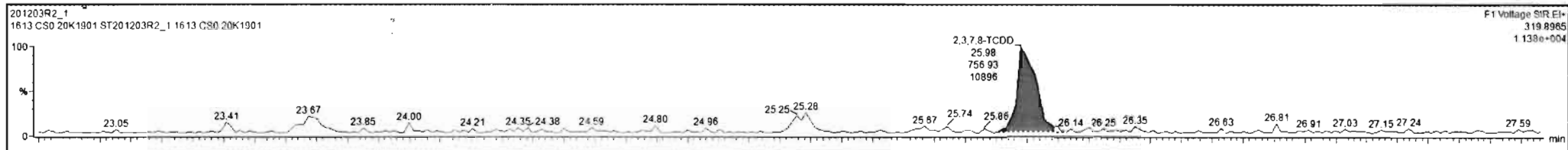


TargetLynx - 201203R2_CRV.qtd - [Chromatogram]

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	0.89	NO	0.90	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	0.90	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	1.88e3	1.67	NO	1.07	1.000	34.66	1.000	1.37	106	0.0494	1.37

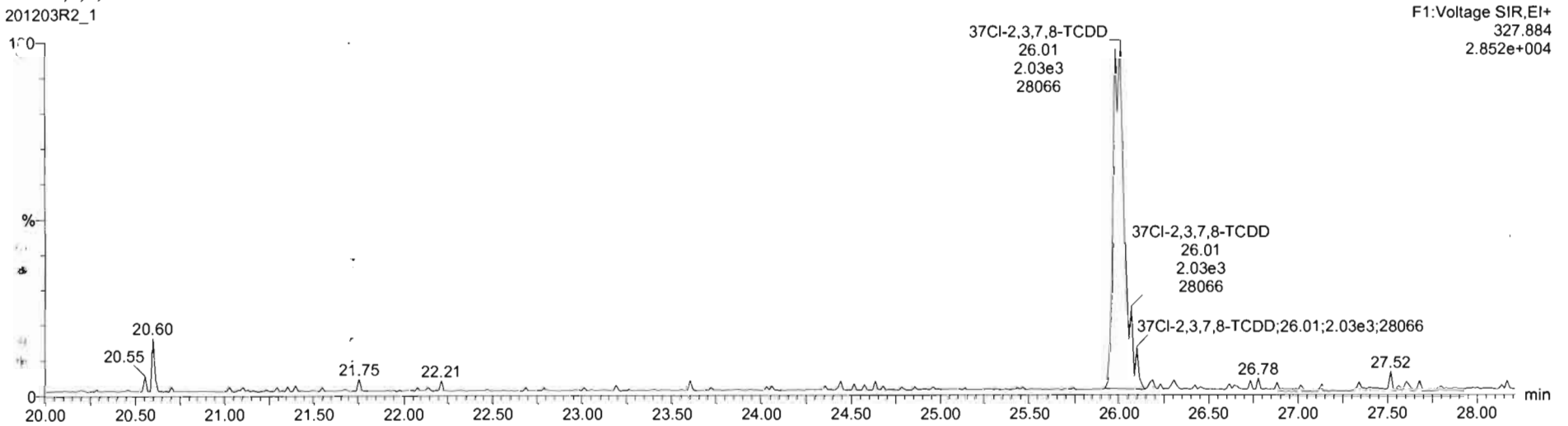


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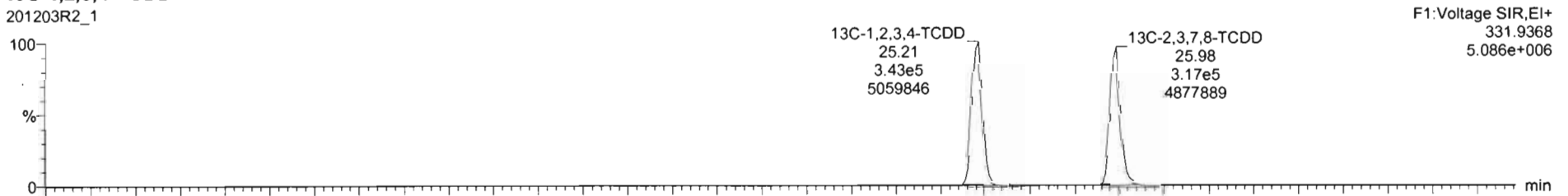
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

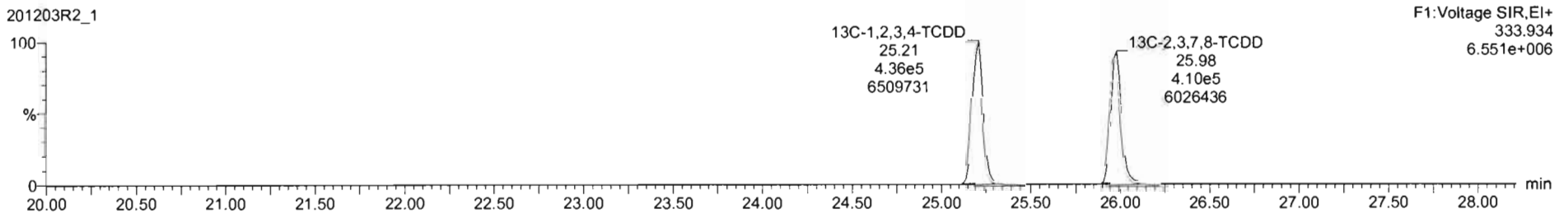
37Cl-2,3,7,8-TCDD
201203R2_1



13C-1,2,3,4-TCDD
201203R2_1



201203R2_1



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

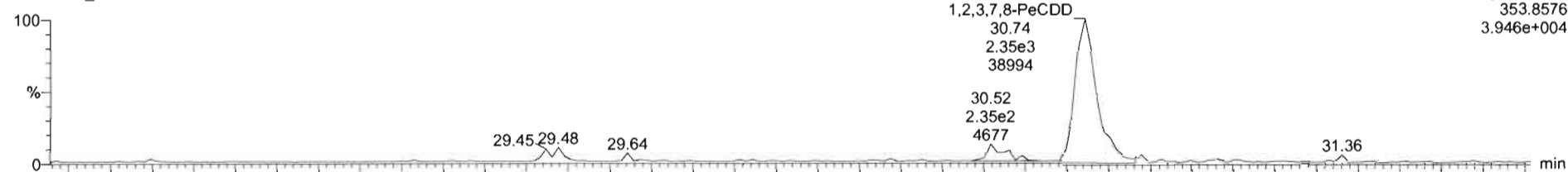
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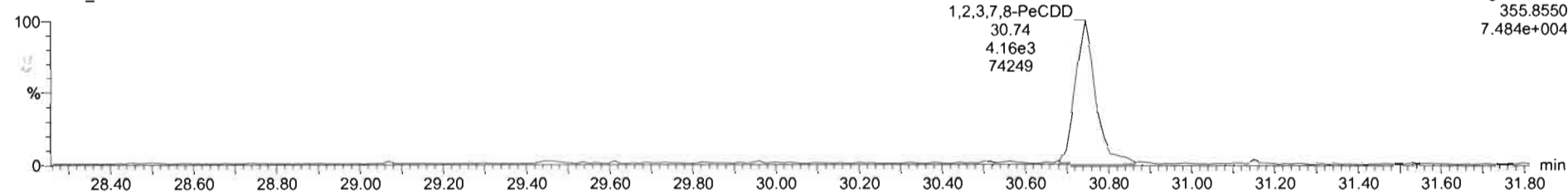
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1,2,3,7,8-PeCDD

201203R2_1

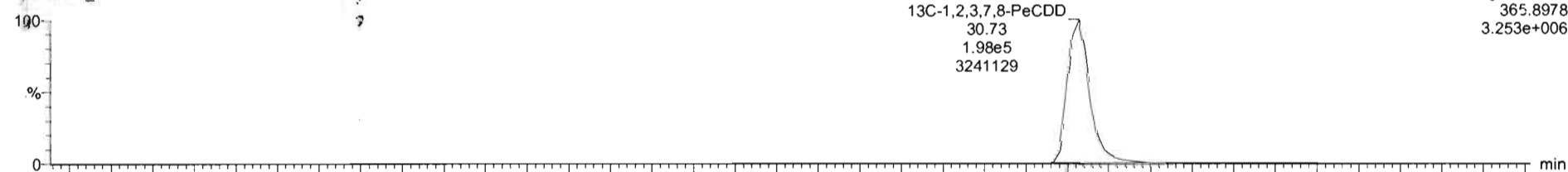


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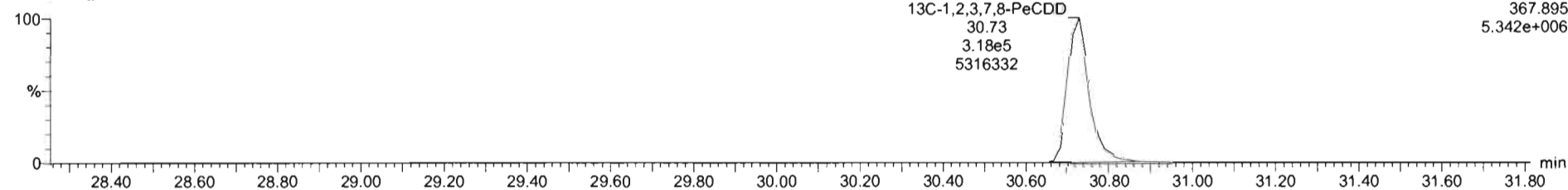


13C-1,2,3,7,8-PeCDD

201203R2_1



201203R2_1

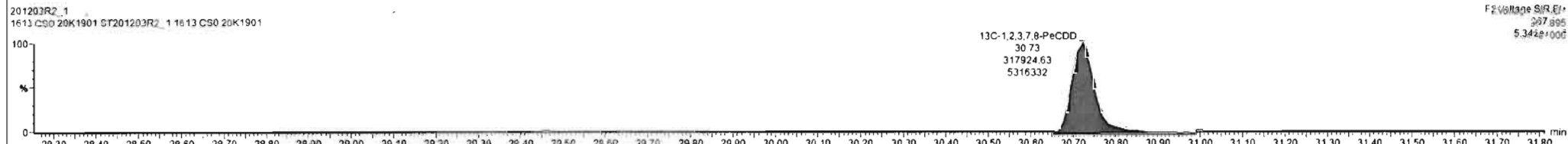
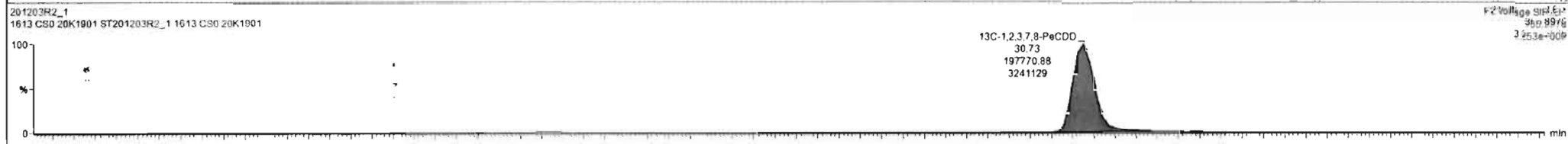


Target: yms - 201203R2_CIV.gd - Chromatogram

File Edit View Display Processing Window Help

201203R2_1 - ST201203R2_1 1613 CS0 20K1901 1613 CS0 20K1901

#	Name	Resp	RA	sy	RRF	wt/wgt	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



Regch 201203R2_1 CAP NUM

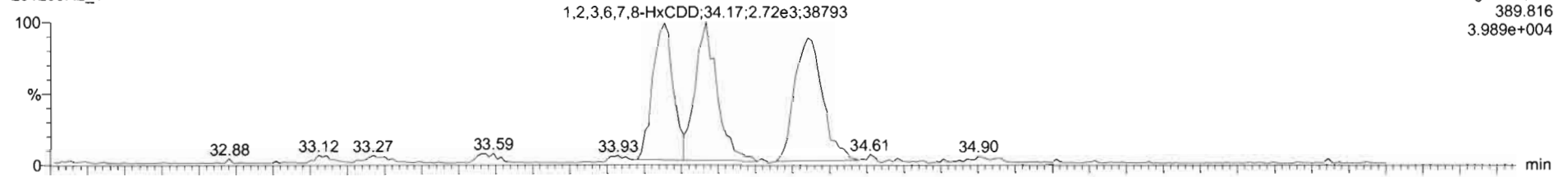
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
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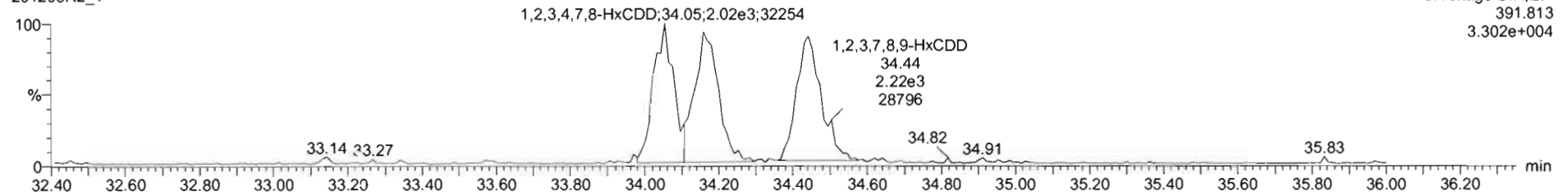
Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

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

201203R2_1

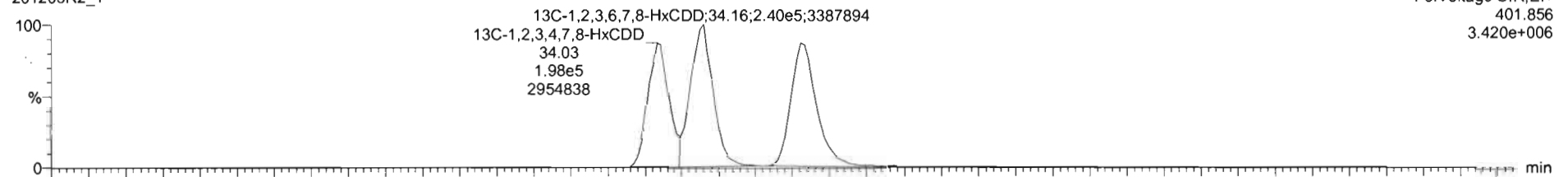


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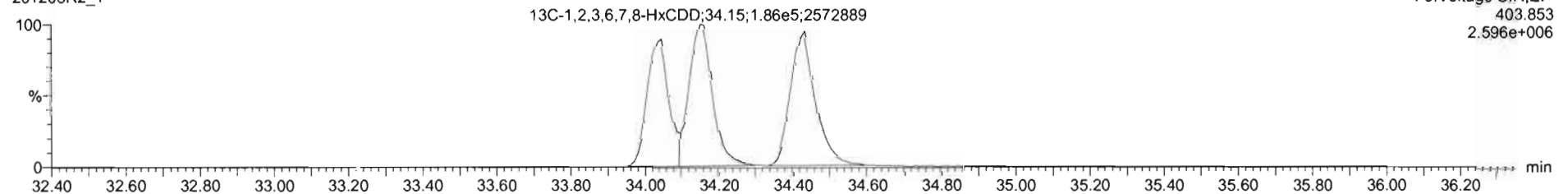


13C-1,2,3,4,7,8-HxCDD

201203R2_1



201203R2_1

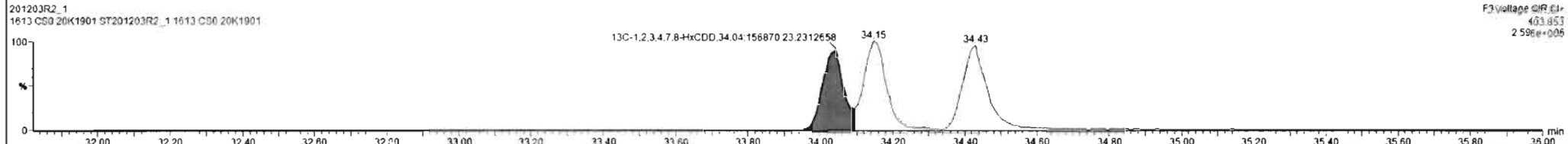
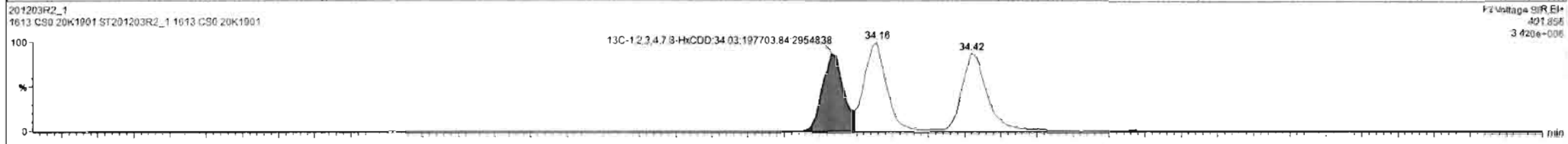
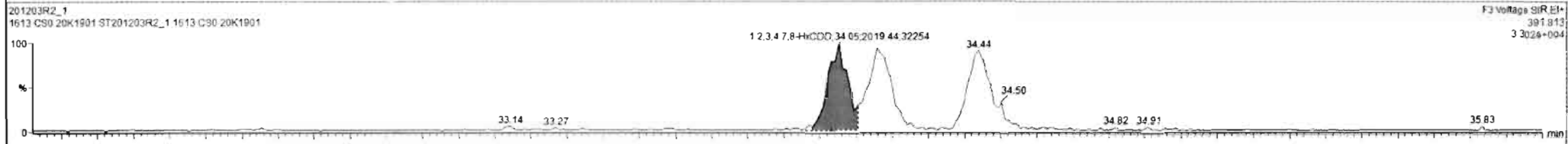
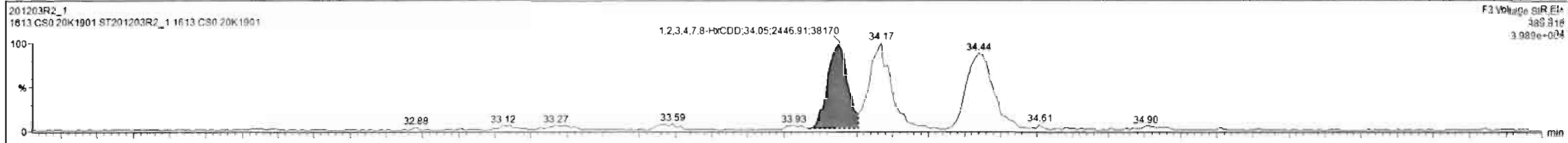


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

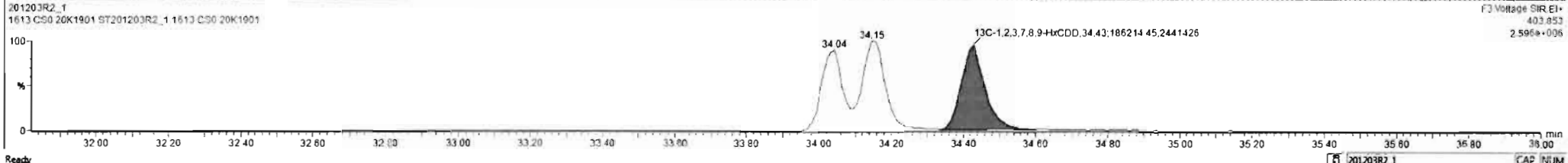
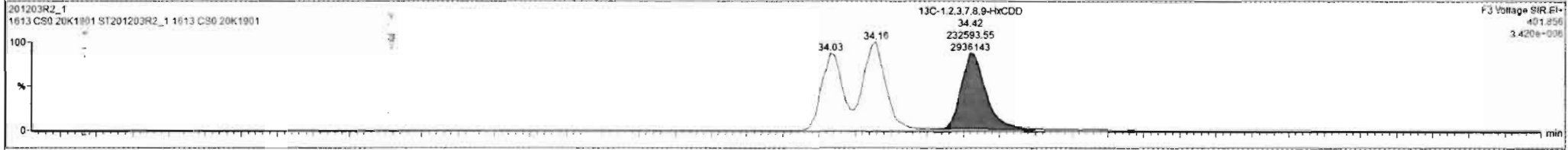
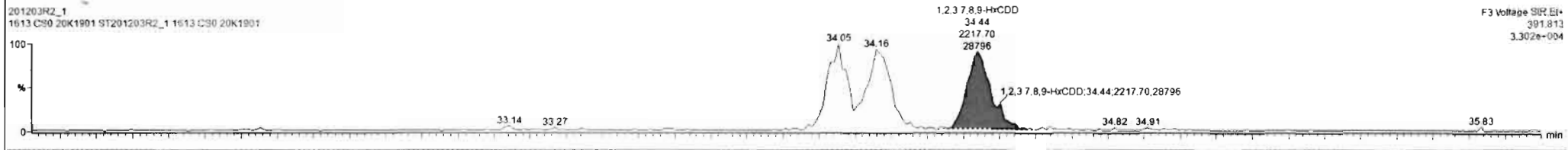
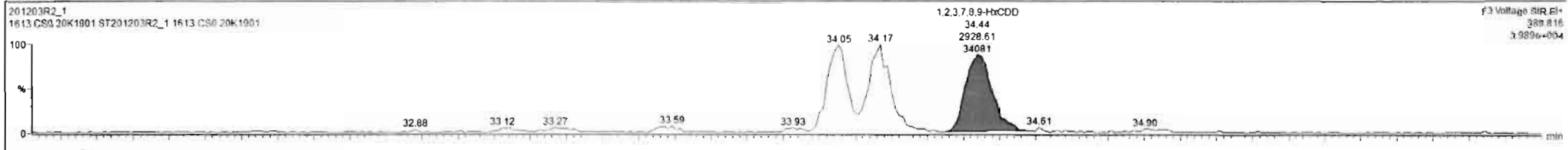
201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

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	1.051	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



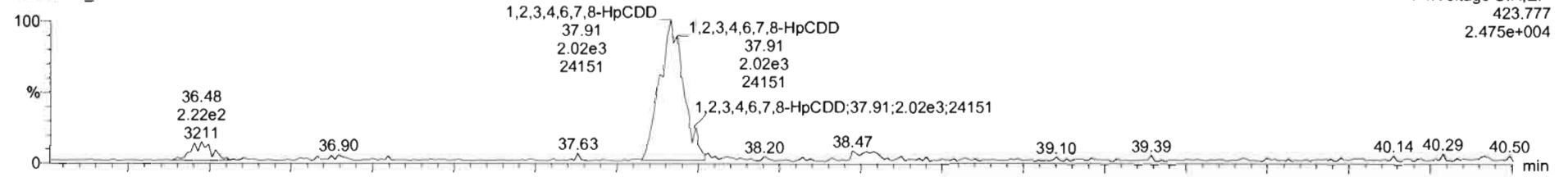
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
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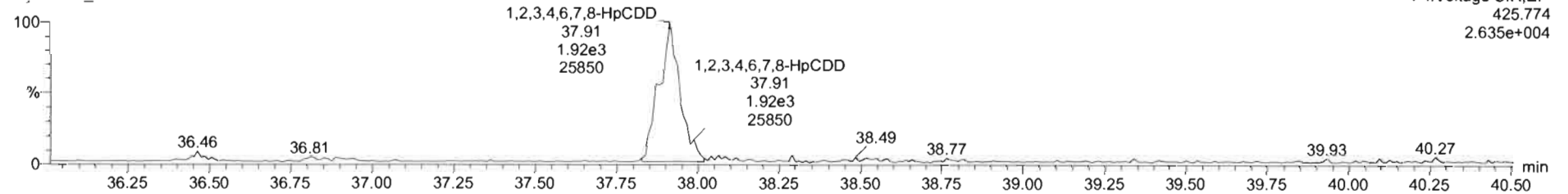
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1,2,3,4,6,7,8-HpCDD

201203R2_1

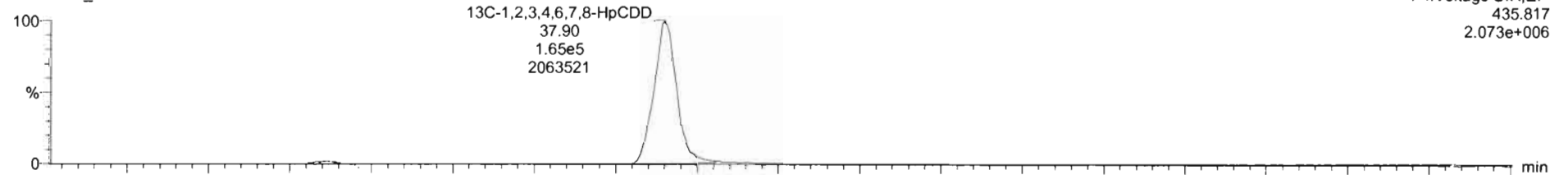


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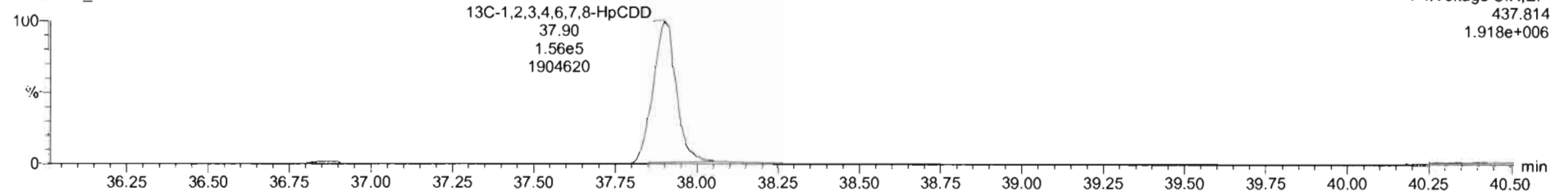


13C-1,2,3,4,6,7,8-HpCDD

201203R2_1

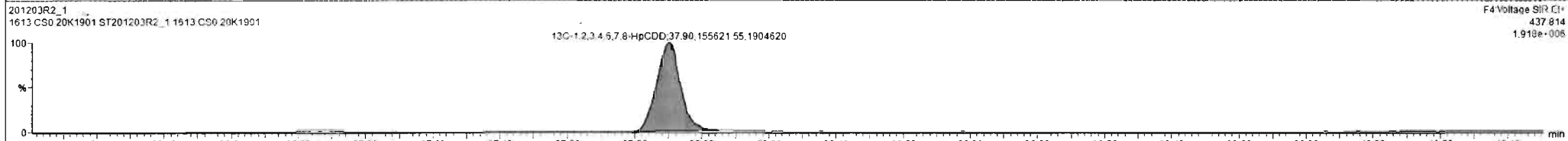
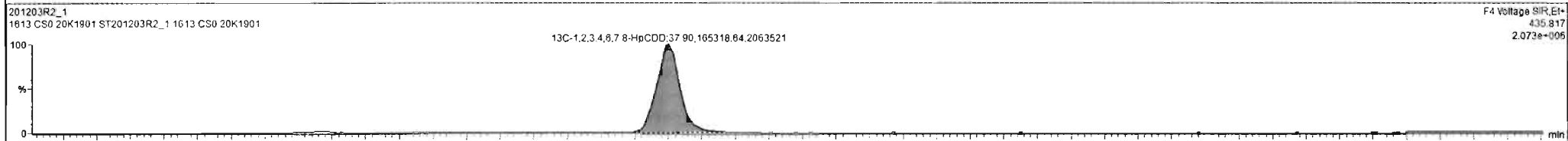
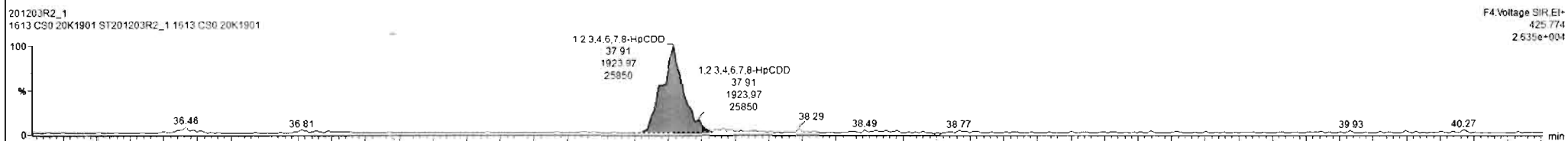
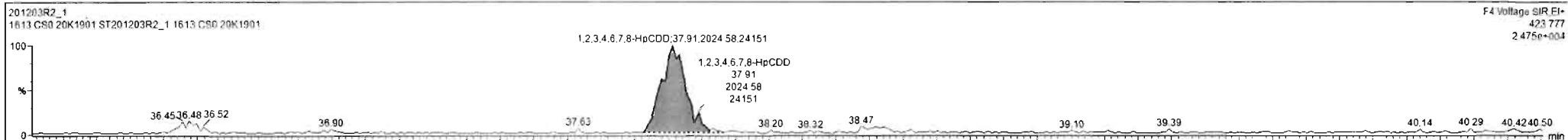


201203R2_1



201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

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

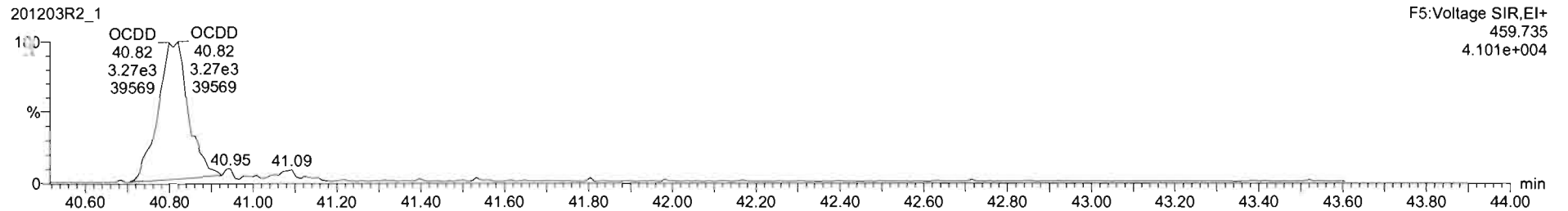
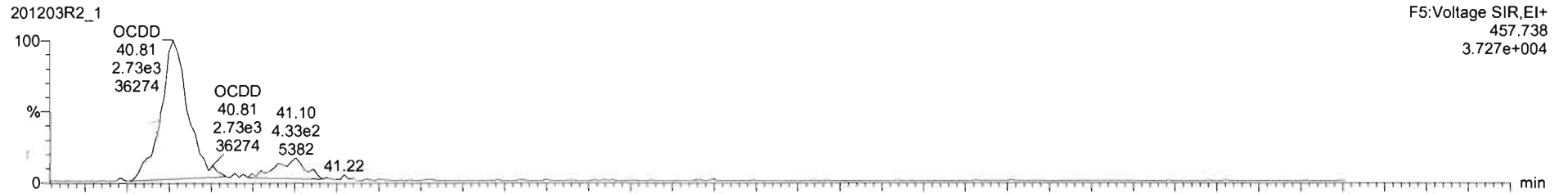


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

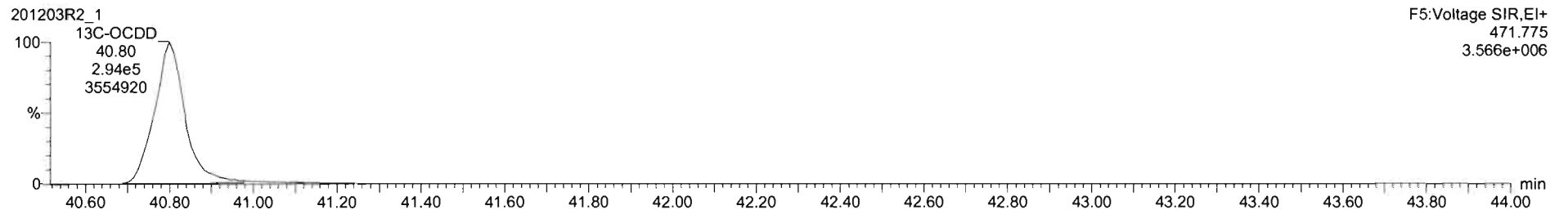
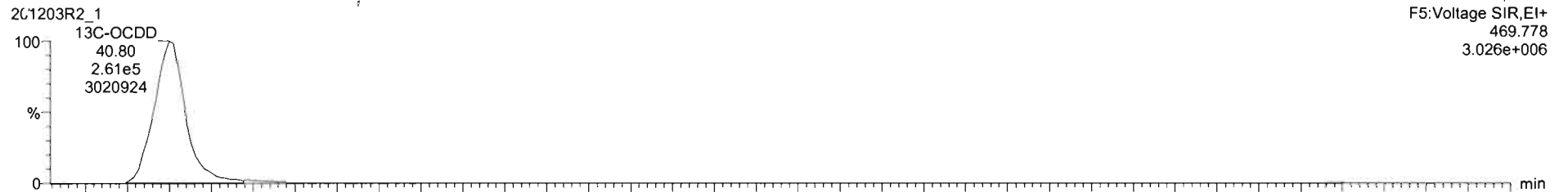
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

OCDD

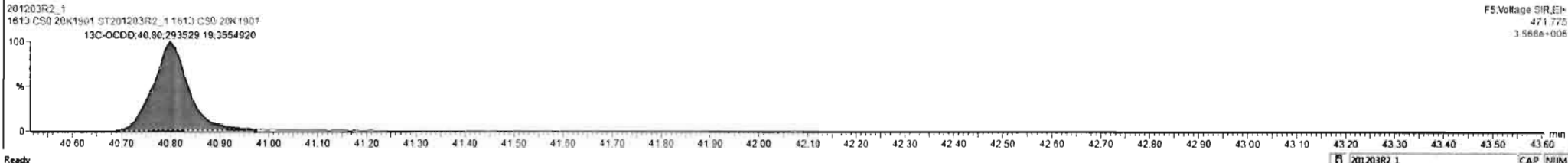


1. C-OCDD



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
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

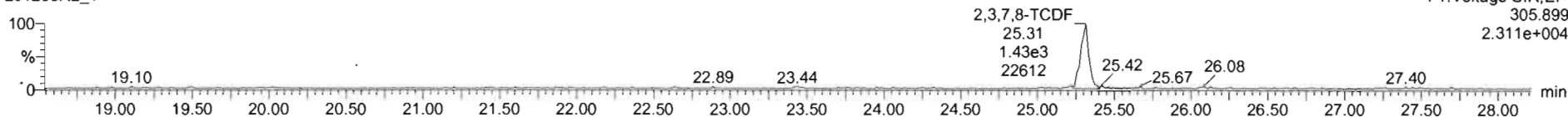
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2,3,7,8-TCDF

201203R2_1

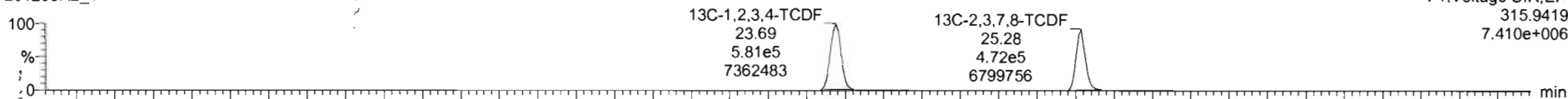


201203R2_1

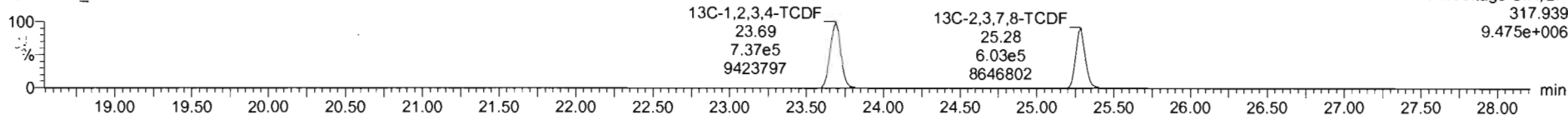


13C-2,3,7,8-TCDF

201203R2_1

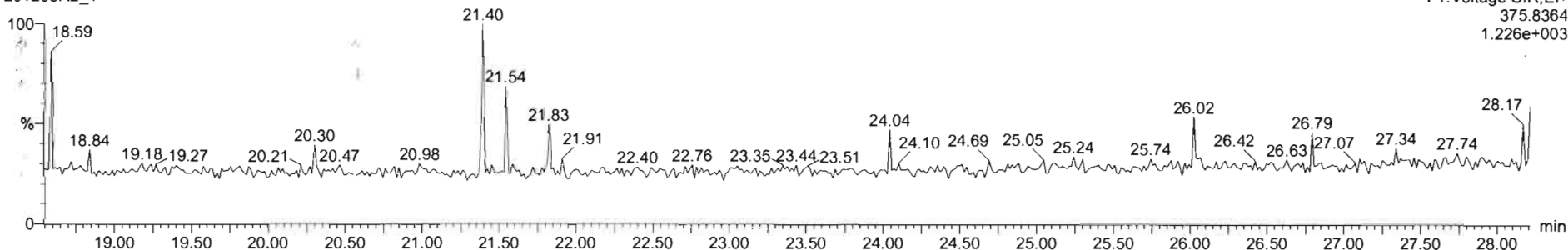


201203R2_1



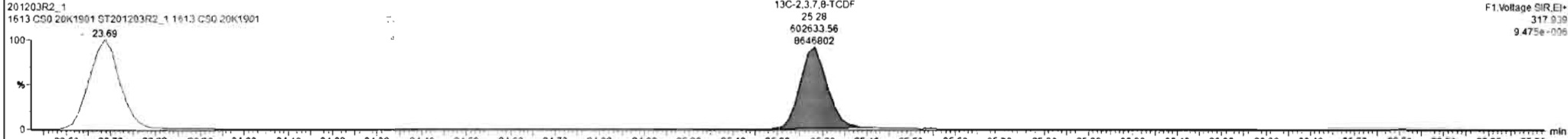
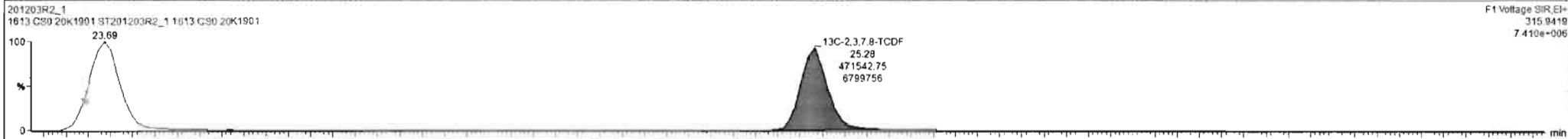
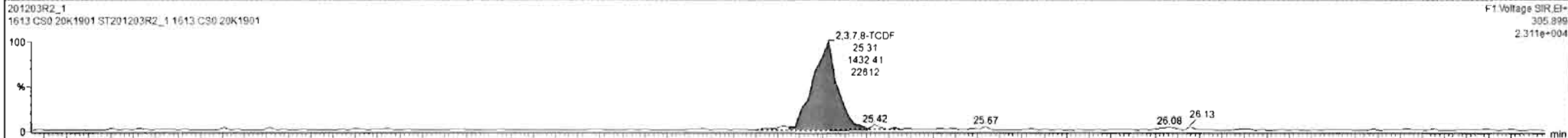
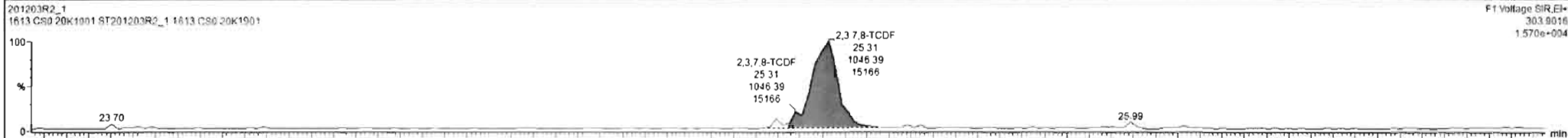
DPE1

201203R2_1



201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Sl	Name	Resp	RA	dy	RRF	wt/dwt	RT	RRT	Conc	%Rec	DL	EMPC
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	37.94	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

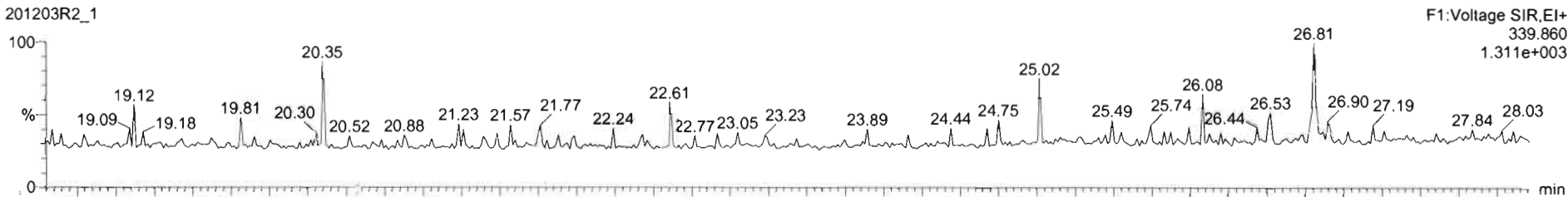
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

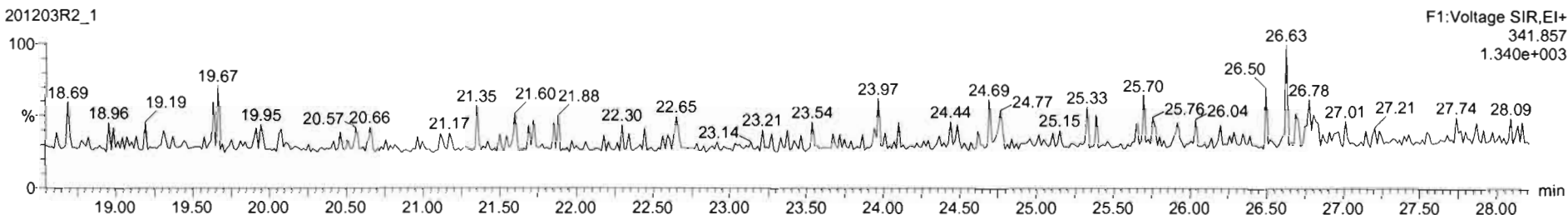
Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

1st Func. Penta-Furans

201203R2_1

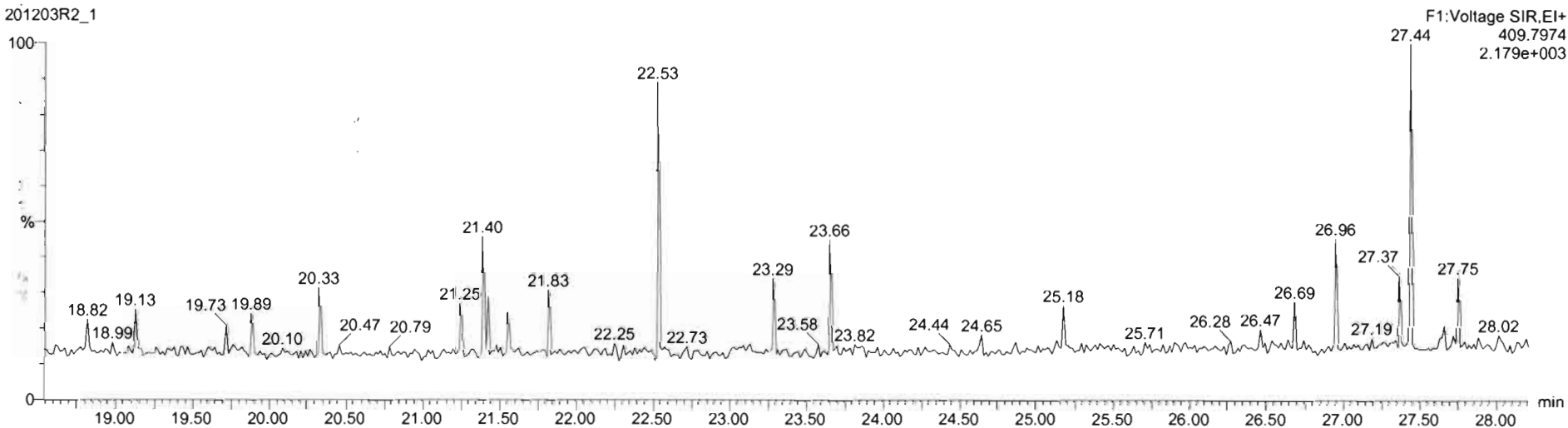


201203R2_1



DPE6

201203R2_1



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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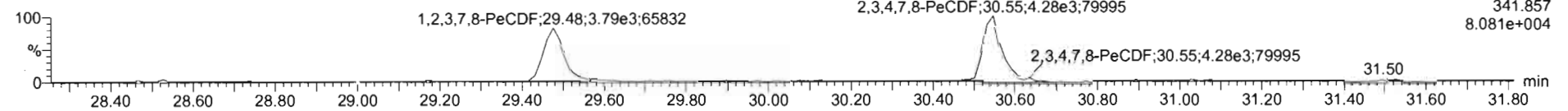
1,2,3,7,8-PeCDF

201203R2_1



F2:Voltage SIR,EI+
339.860
1.212e+005

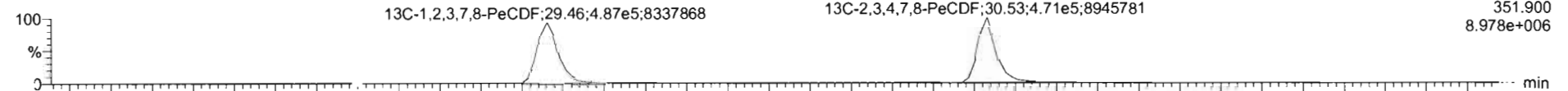
201203R2_1



F2:Voltage SIR,EI+
341.857
8.081e+004

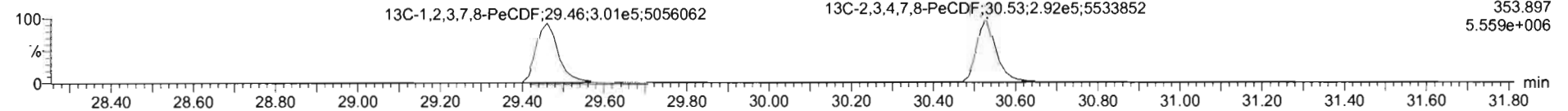
13C-1,2,3,7,8-PeCDF

201203R2_1



F2:Voltage SIR,EI+
351.900
8.978e+006

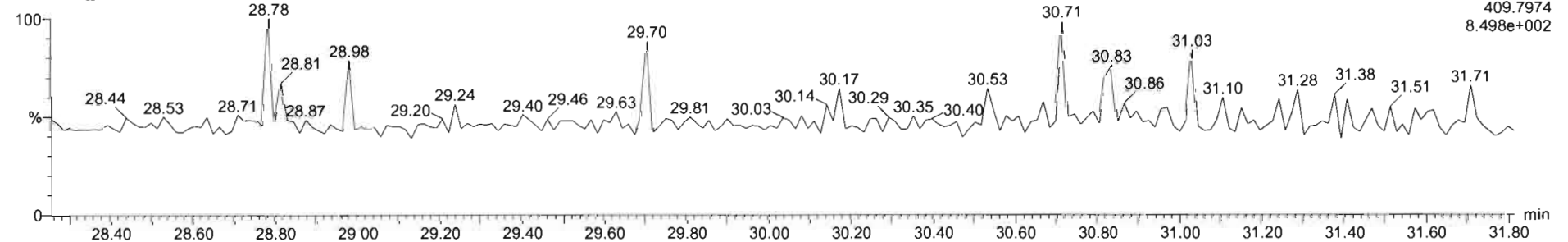
201203R2_1



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353.897
5.559e+006

DPE2

201203R2_1



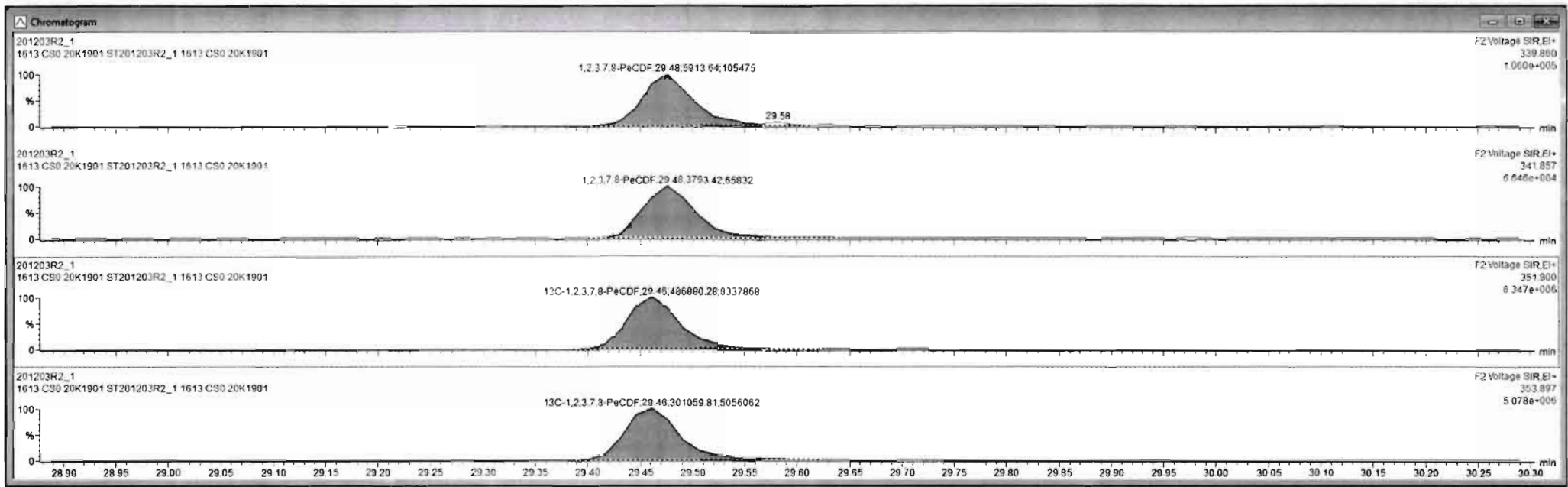
F2:Voltage SIR,EI+
409.7974
8.498e+002

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	0.3981	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	



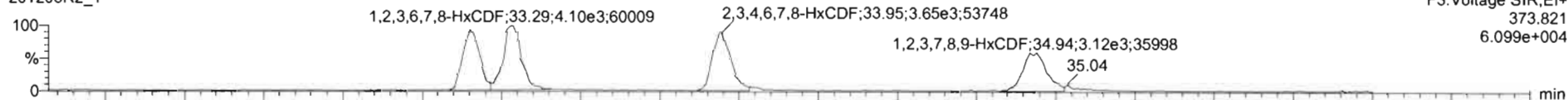
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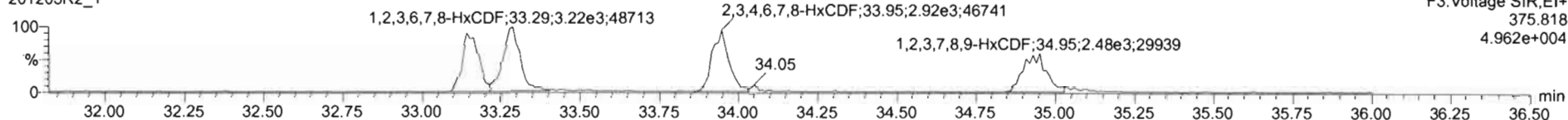
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1,2,3,4,7,8-HxCDF

201203R2_1

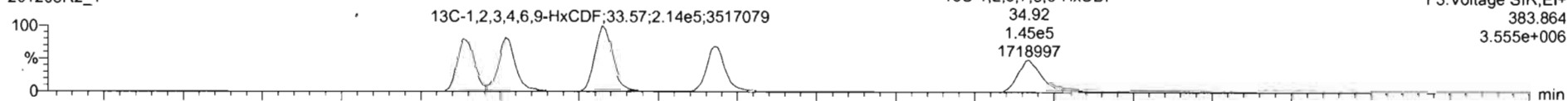


201203R2_1

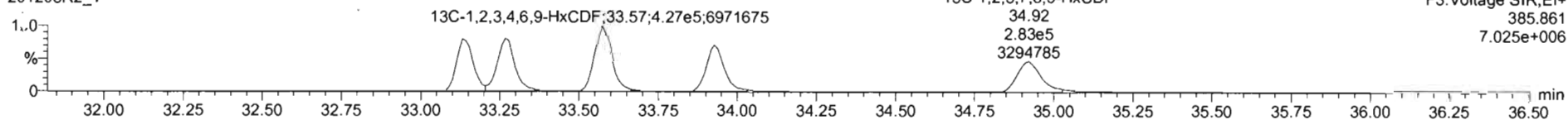


13C-1,2,3,4,7,8-HxCDF

201203R2_1

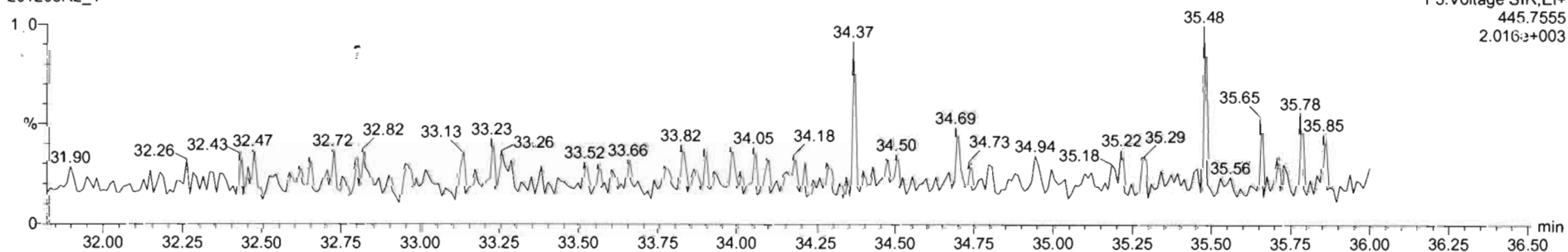


201203R2_1



DPE3

201203R2_1

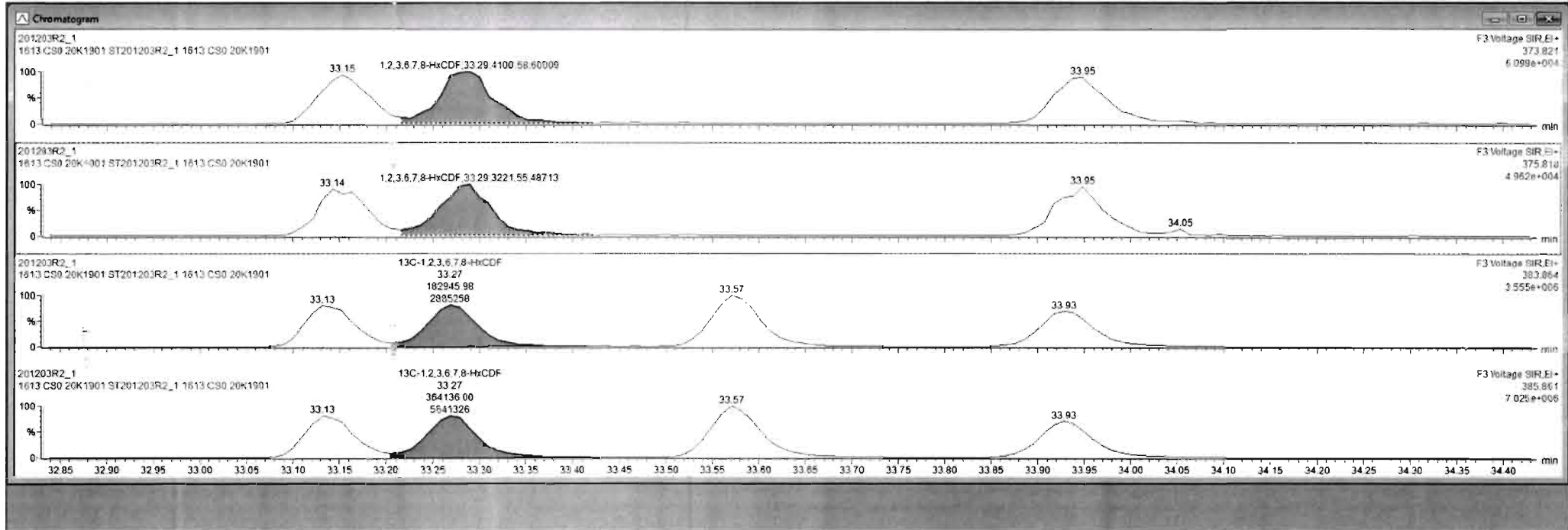


TargetLynx - 201203R2_CRV.qtd

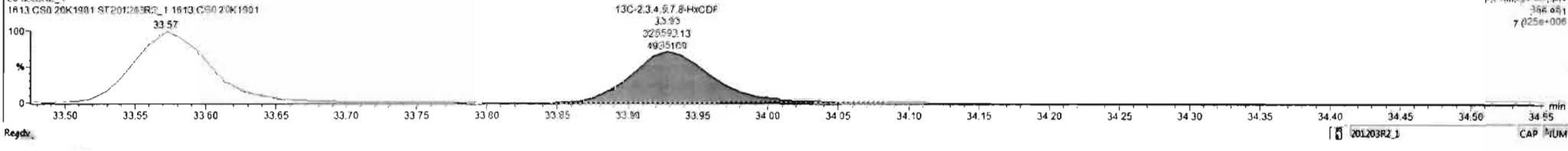
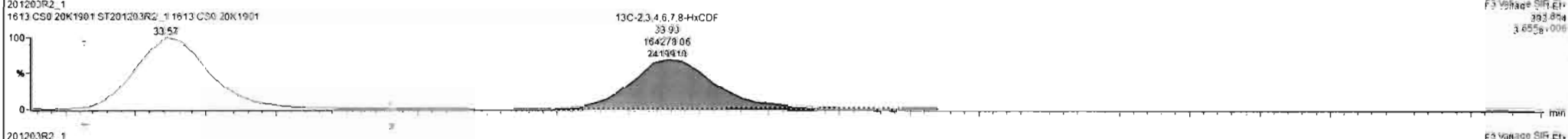
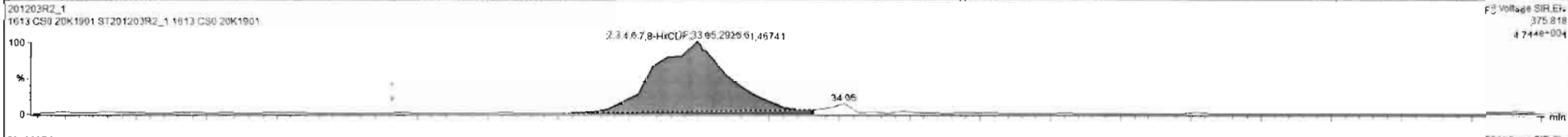
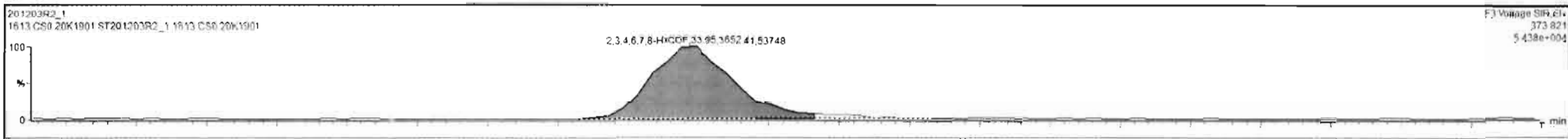
File Edit View Display Processing Window Help

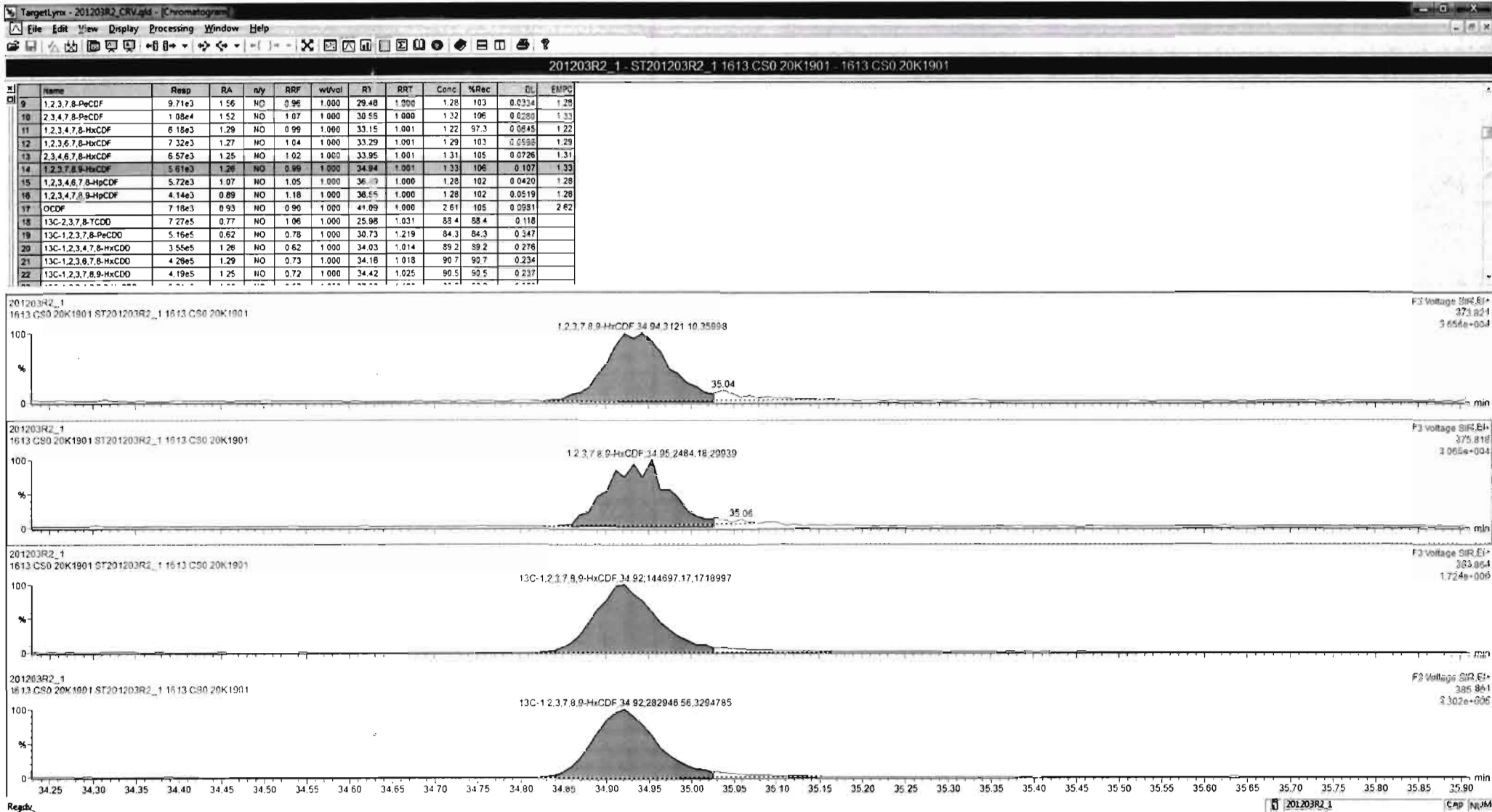
201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	nly	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	NRec	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	0.0590	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	84.4	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	



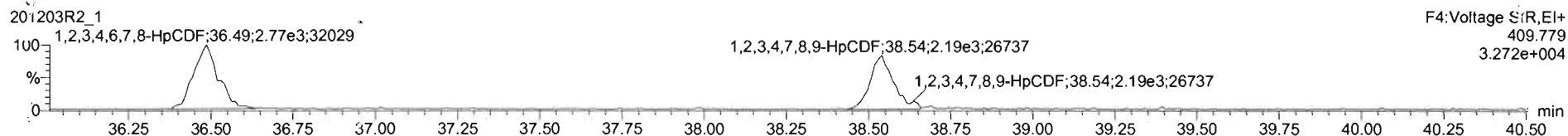
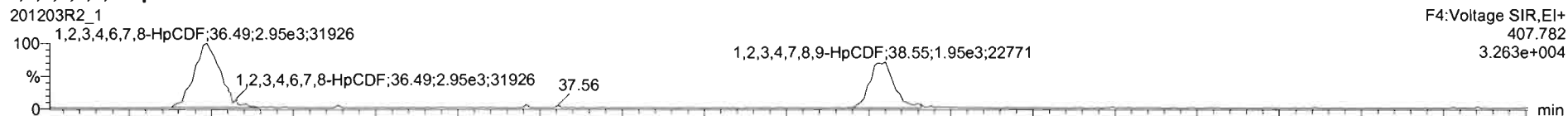


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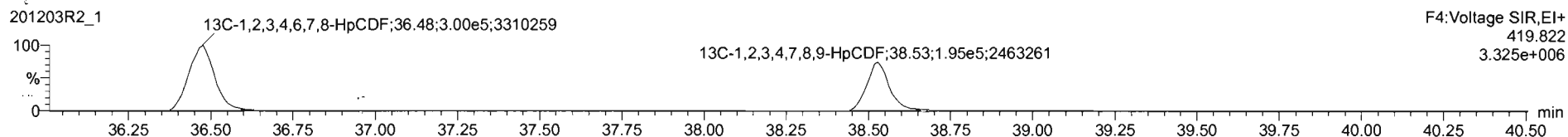
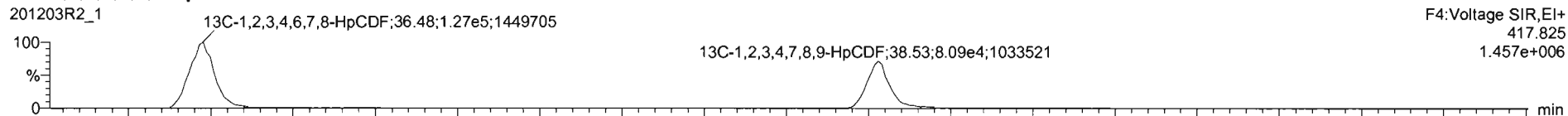
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_1, Date: 03-Dec-2020, Time: 10:36:45, ID: ST201203R2_1 1613 CS0 20K1901, Description: 1613 CS0 20K1901

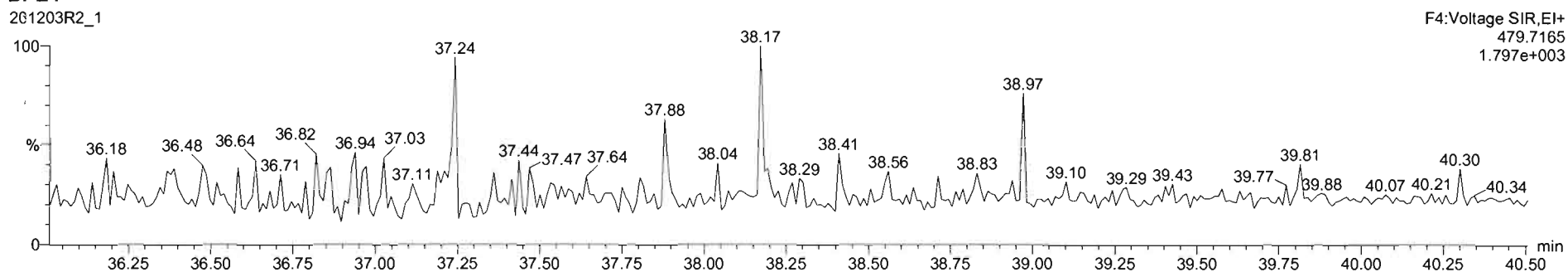
1,2,3,4,6,7,8-HpCDF



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



DPE4

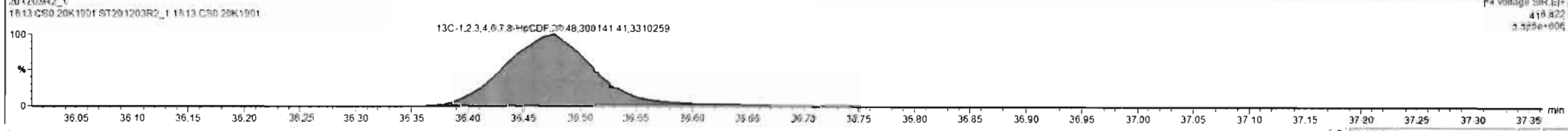
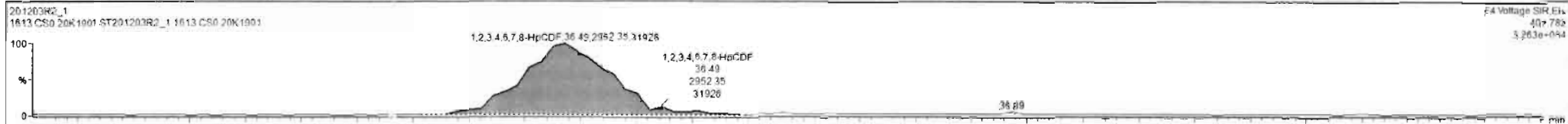


TargetLynx - 201203R2_CRV.gtd - [Chromatogram]

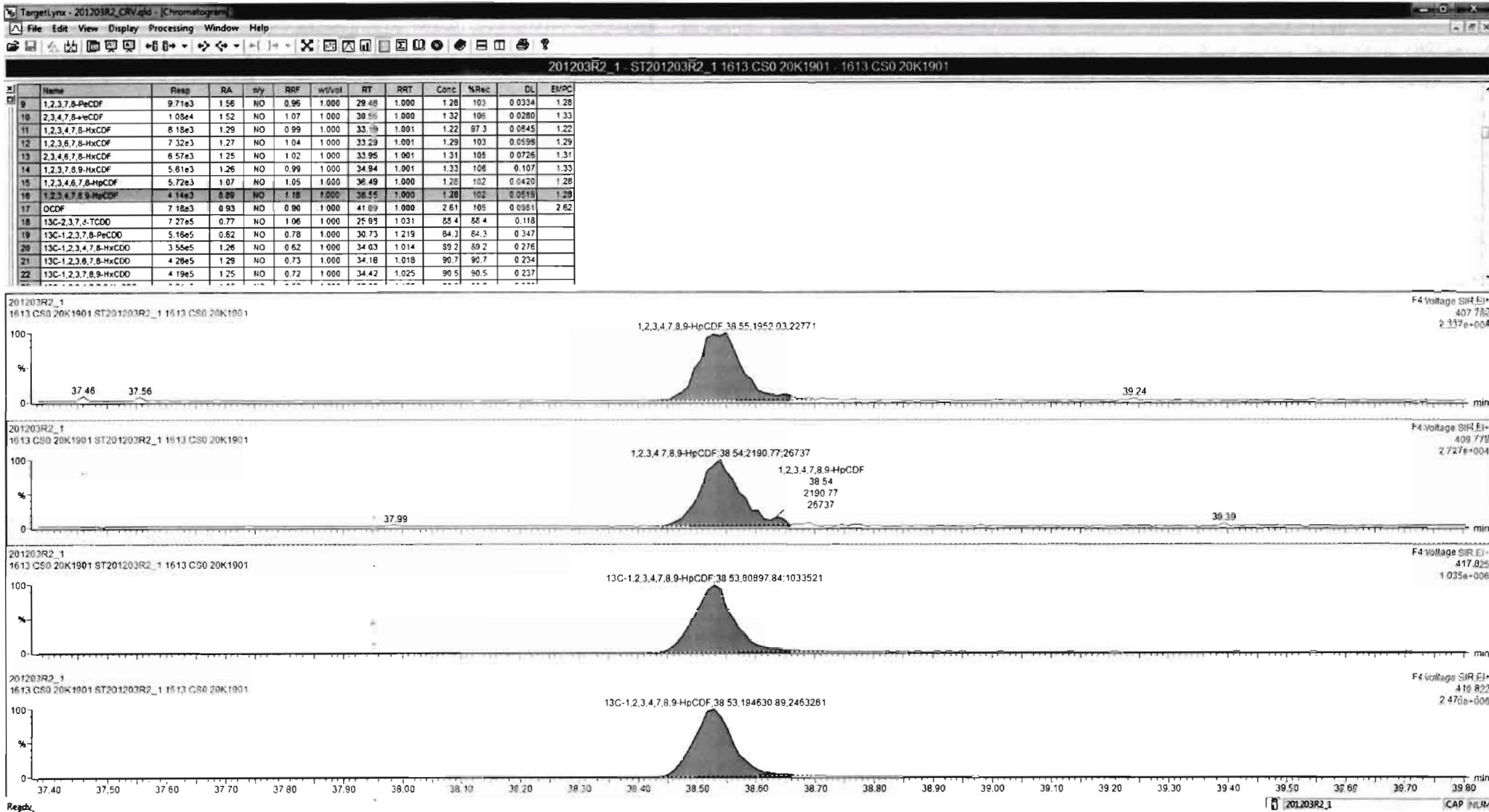
File Edit View Display Processing Window Help

201203R2_1 - ST201203R2_1 1613 CS0 20K1901 - 1613 CS0 20K1901

Name	Resp	RA	n/y	RRF	w/wof	RT	RRT	Conc	%Rec	DL	EMPC
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 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	0.0945	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	33.51	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	108	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	0.0331	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	34.18	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	



Regds. 201203R2_1 CAP NUM

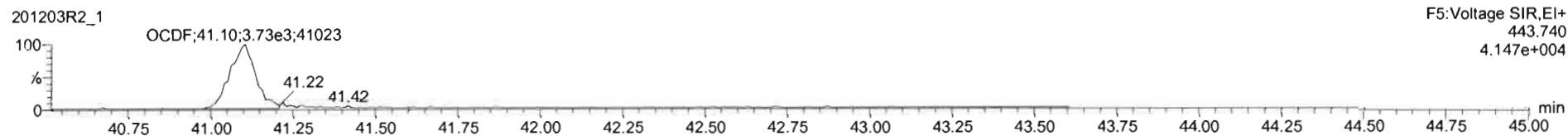
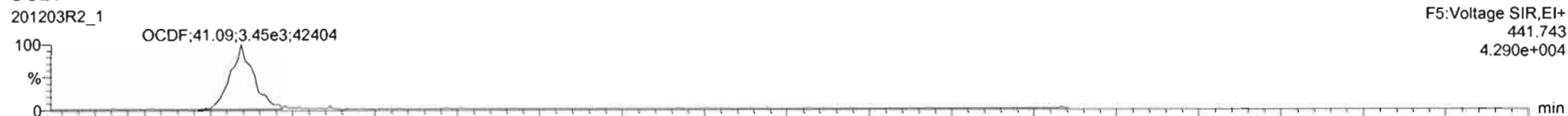


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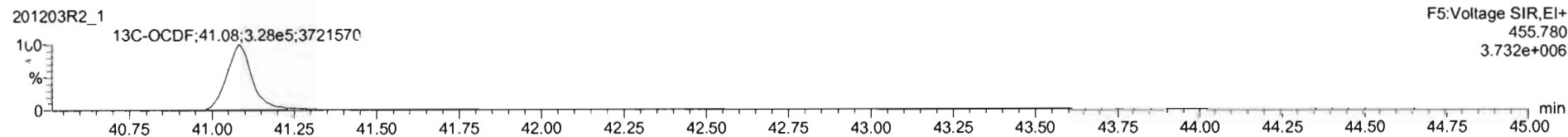
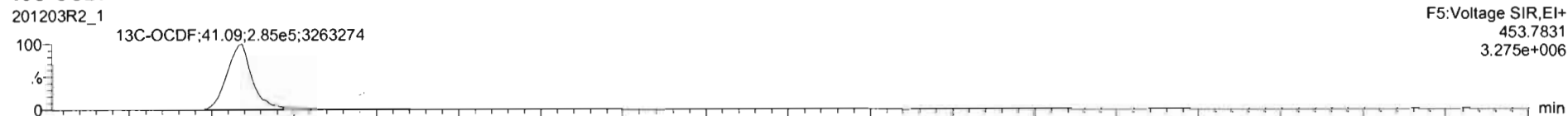
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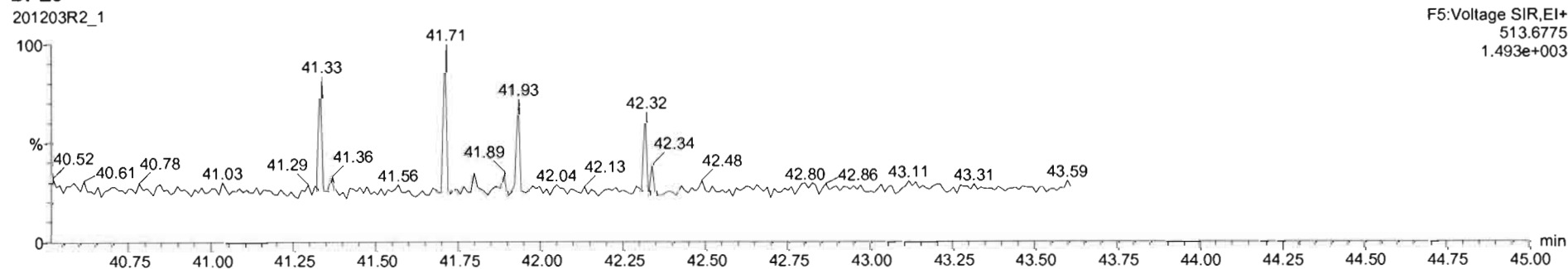
OCDF



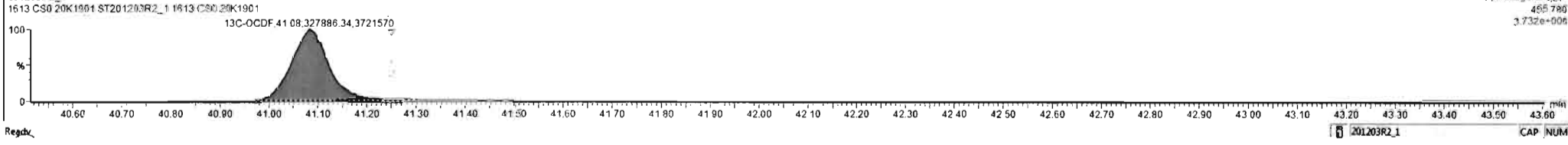
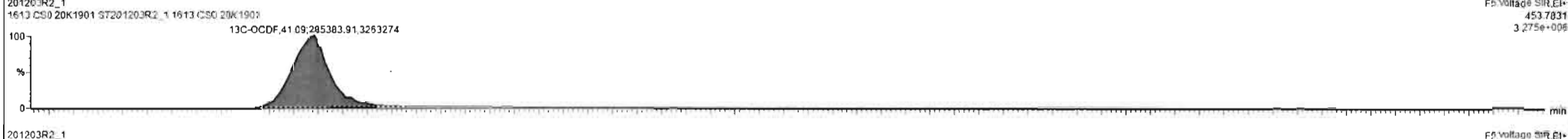
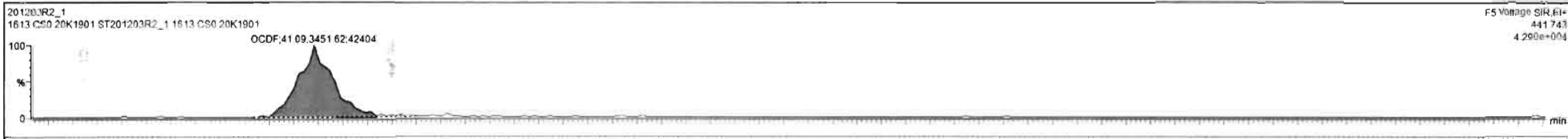
13C-OCDF



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	



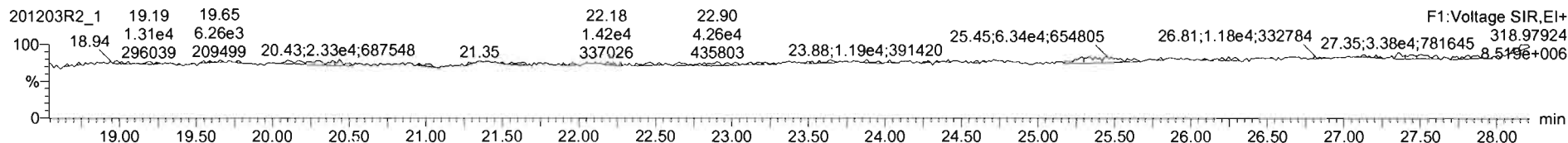
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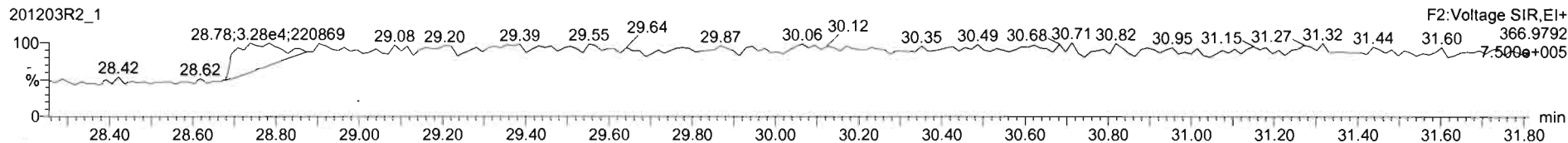
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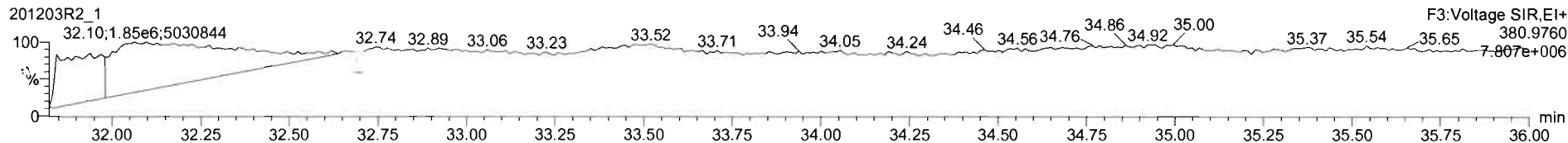
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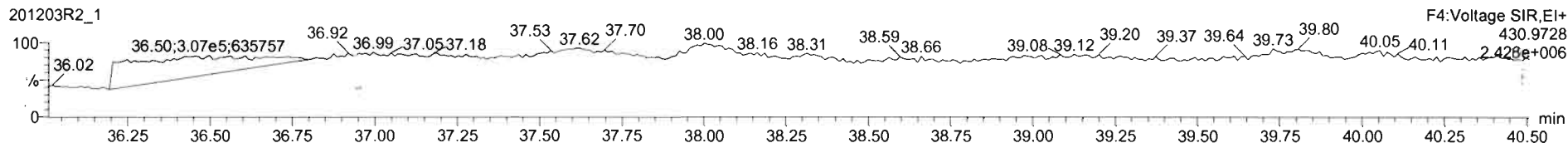
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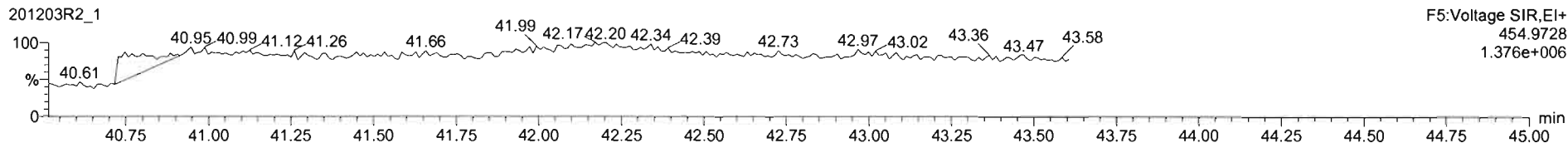
PFK3



PFK4



PFK5



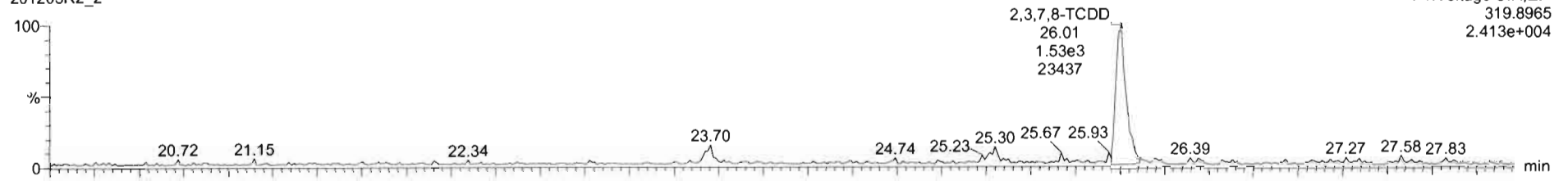
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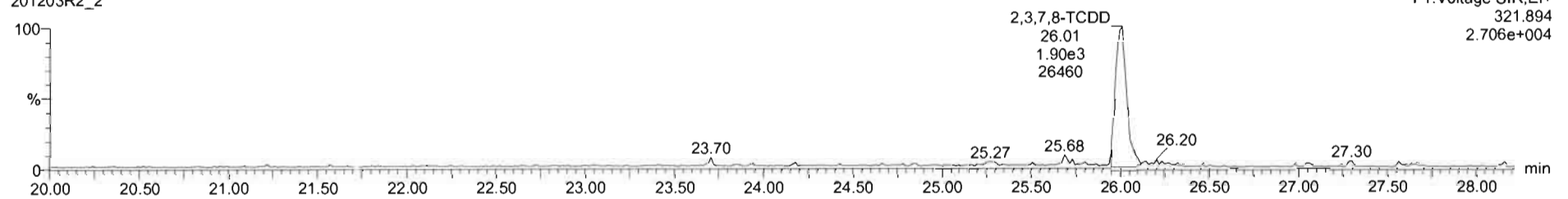
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2,3,7,8-TCDD

201203R2_2

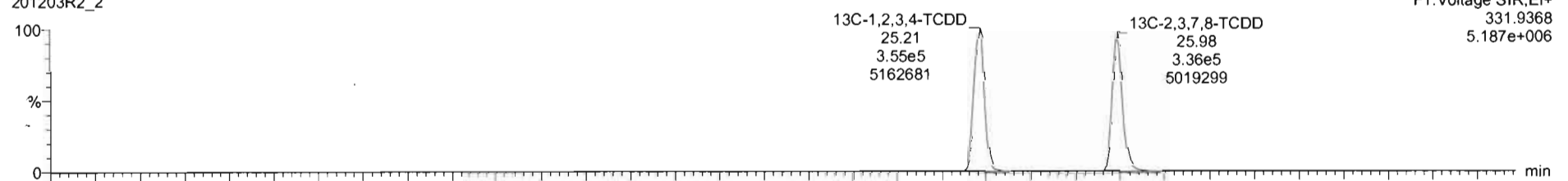


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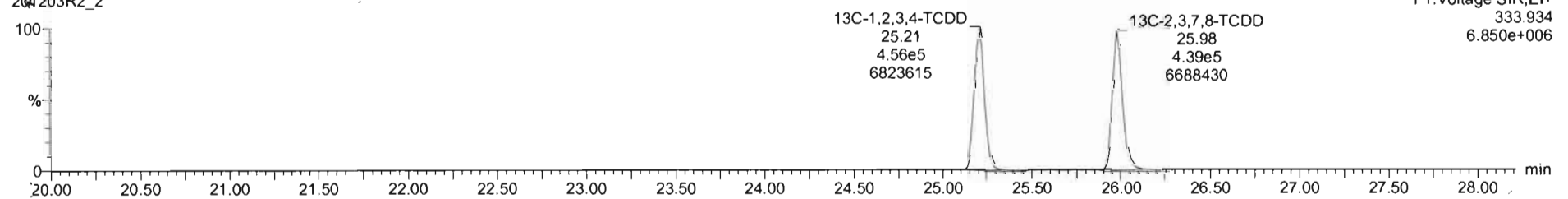


13C-2,3,7,8-TCDD

201203R2_2

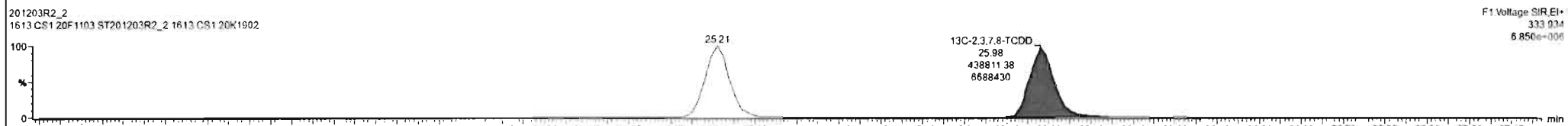
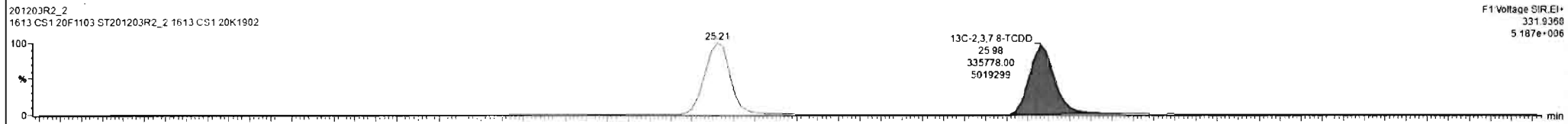
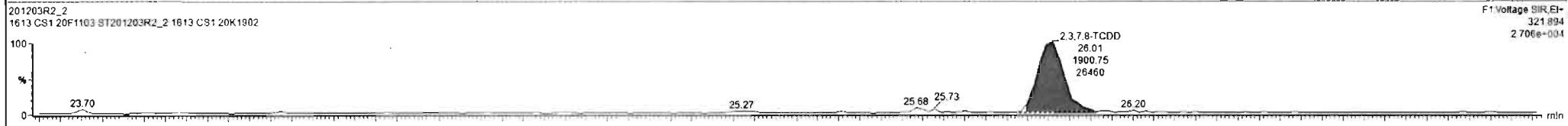
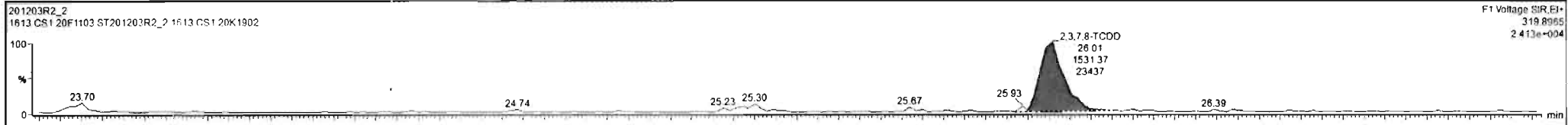


201203R2_2



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



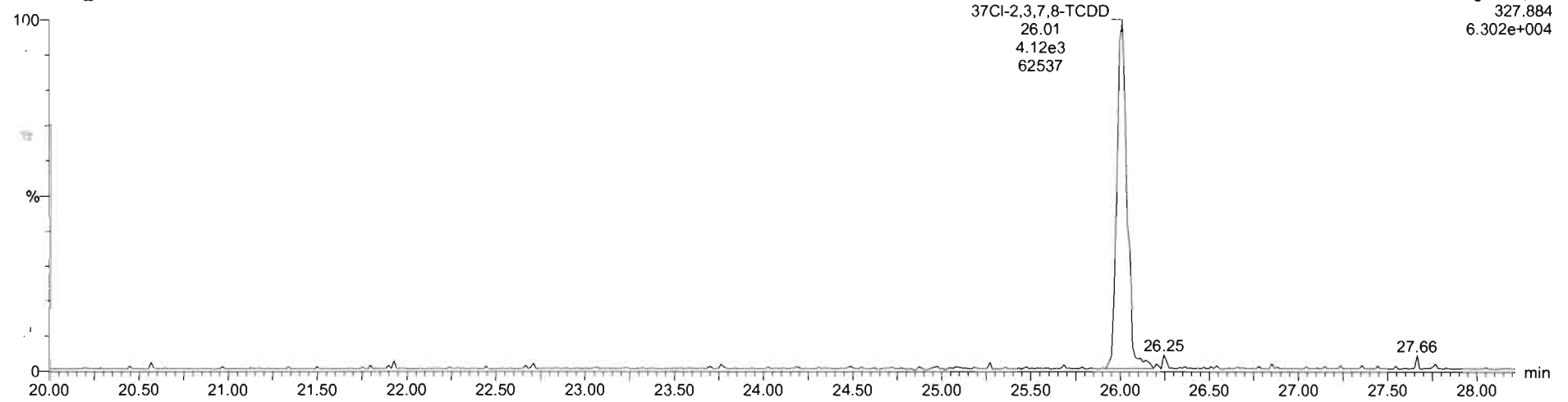
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

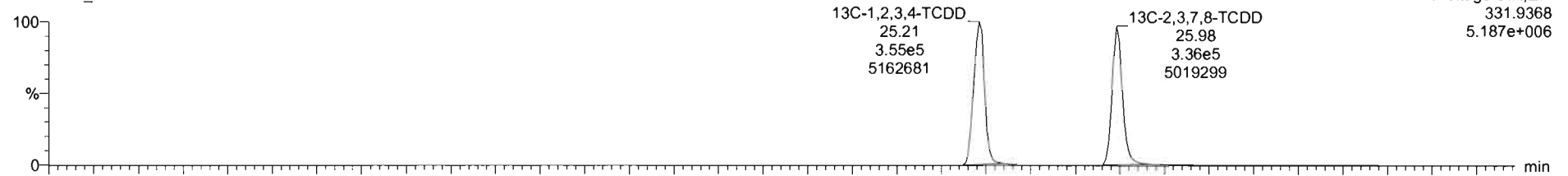
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201203R2_2

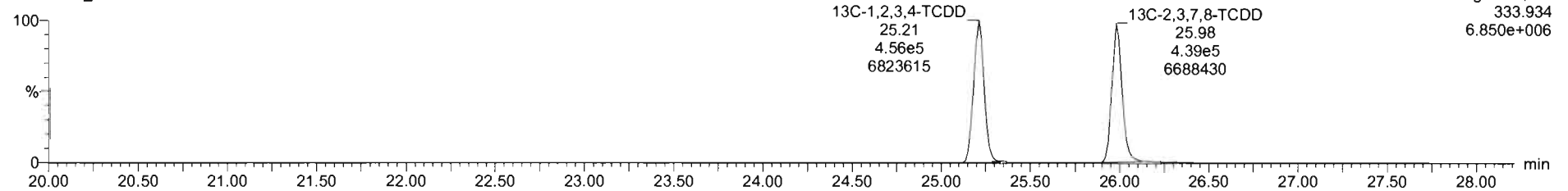


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201203R2_2



201203R2_2



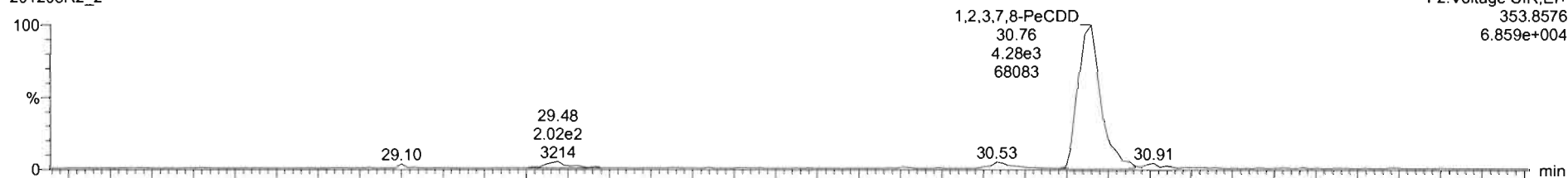
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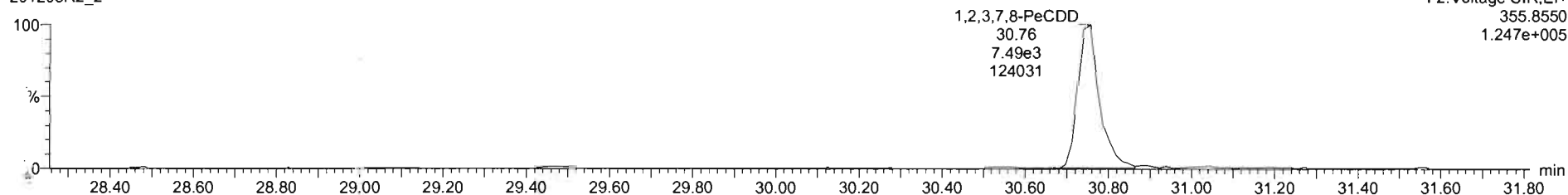
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1,2,3,7,8-PeCDD

201203R2_2

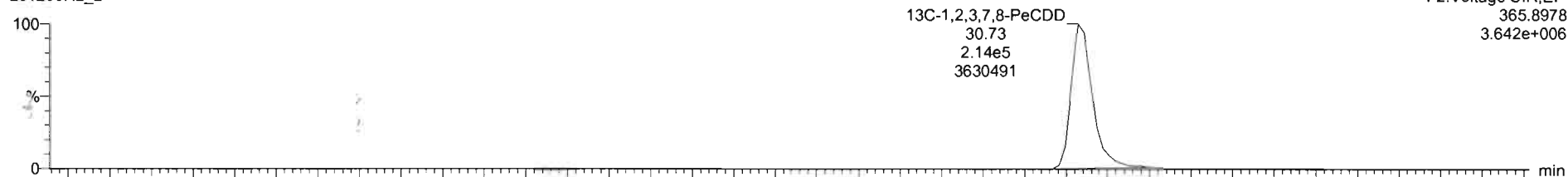


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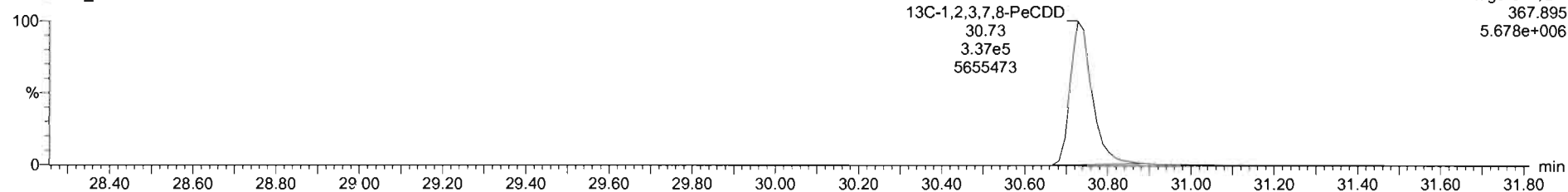


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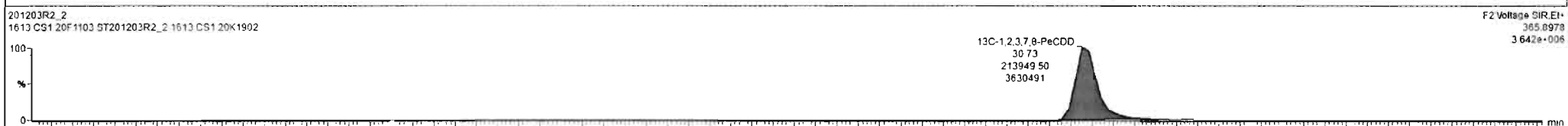
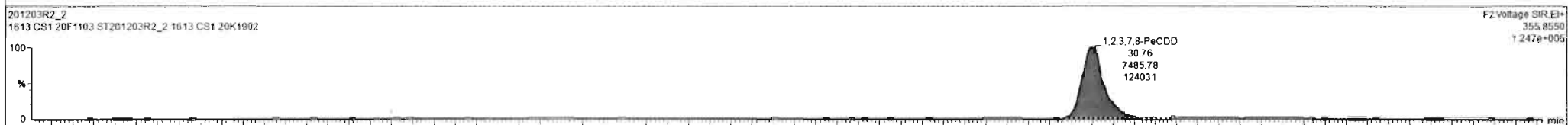


201203R2_2



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



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

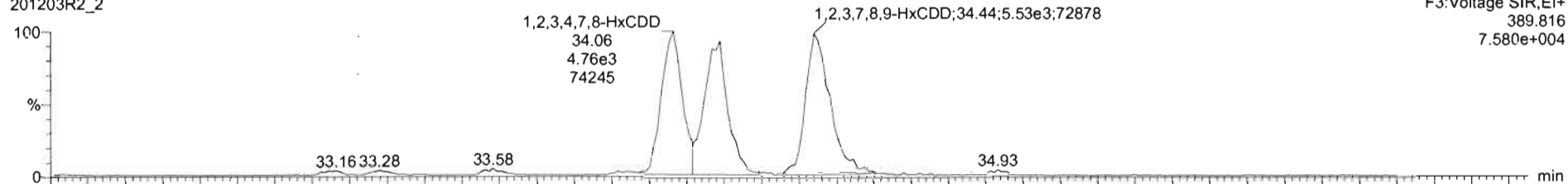
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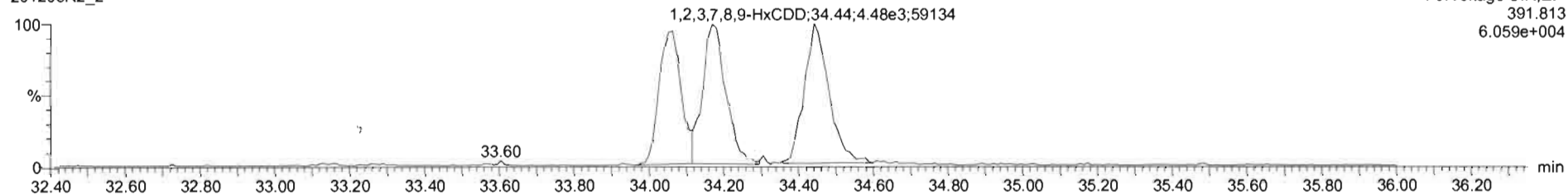
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1,2,3,4,7,8-HxCDD

201203R2_2

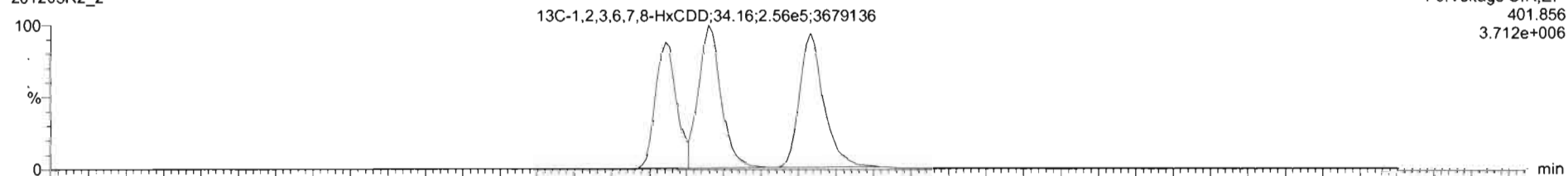


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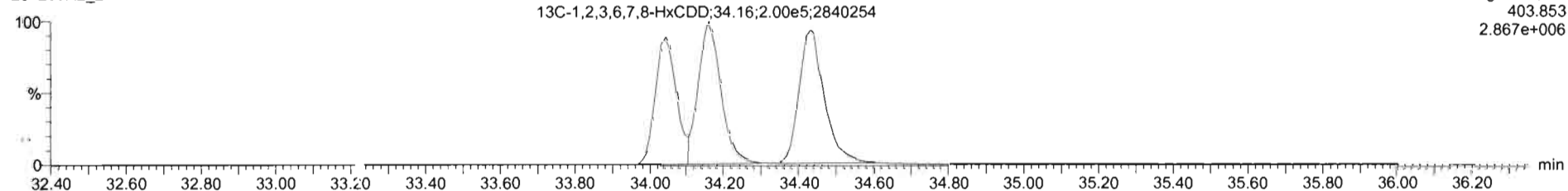


13C-1,2,3,4,7,8-HxCDD

201203R2_2

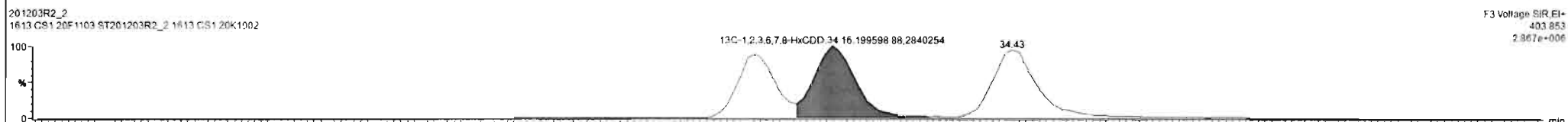
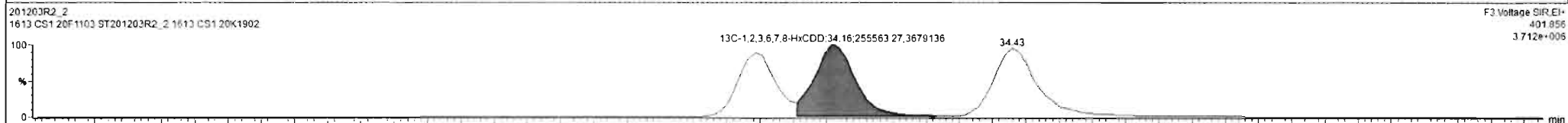
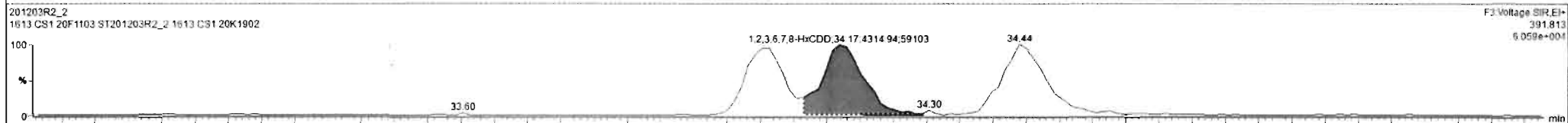
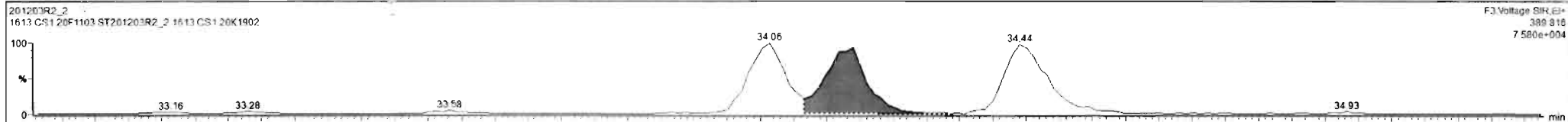


201203R2_2



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	98.6	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	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

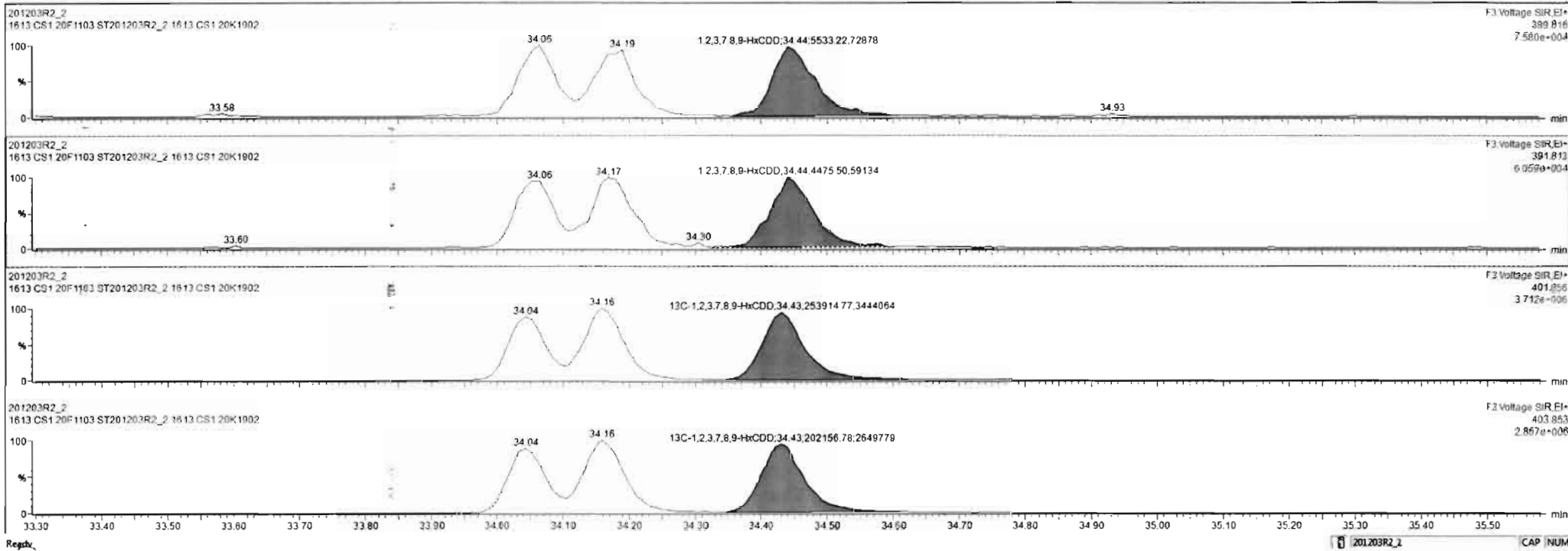


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	Name	Resp	RA	rvy	RRF	wt/wtd	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	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	1.29e4	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



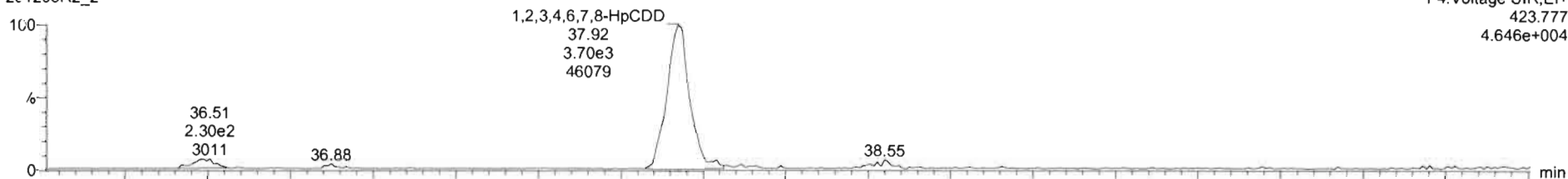
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103

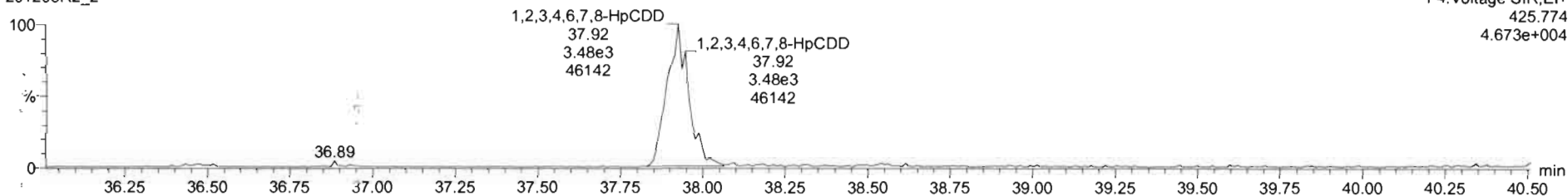
1,2,3,4,6,7,8-HpCDD

2C1203R2_2



F4:Voltage SIR,EI+
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4.646e+004

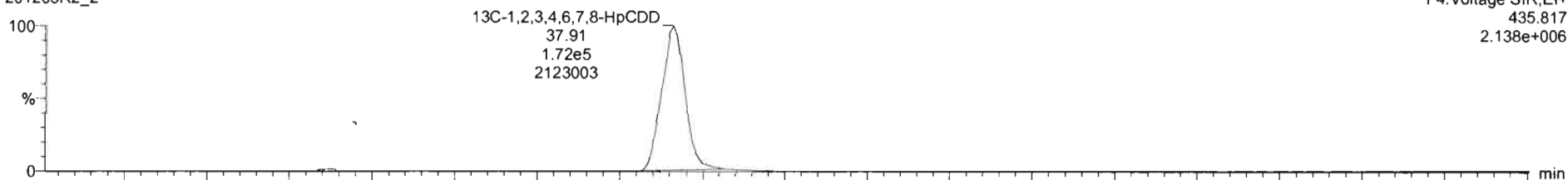
201203R2_2



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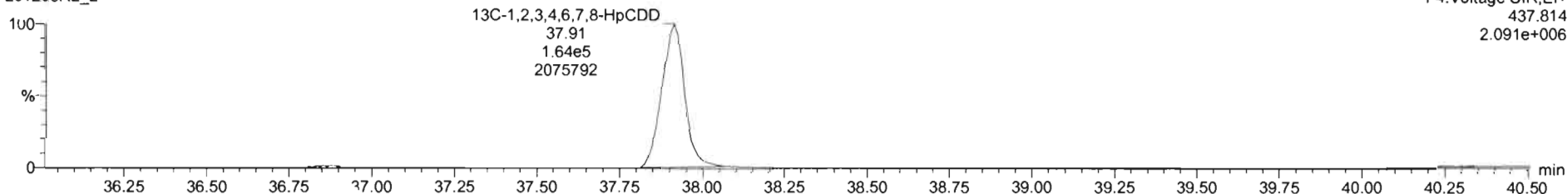
13C-1,2,3,4,6,7,8-HpCDD

201203R2_2



F4:Voltage SIR,EI+
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2.138e+006

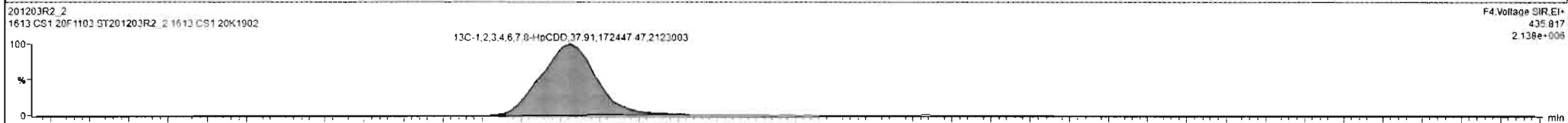
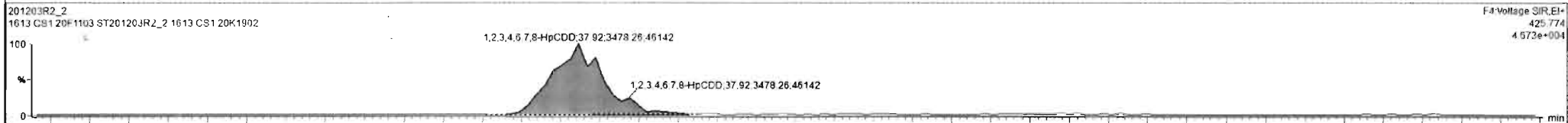
201203R2_2



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



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

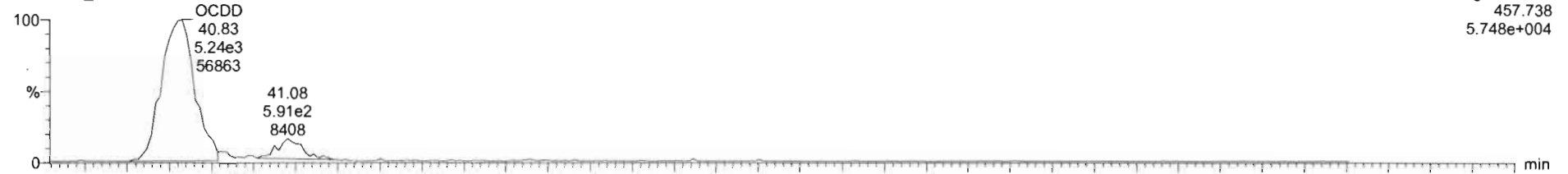
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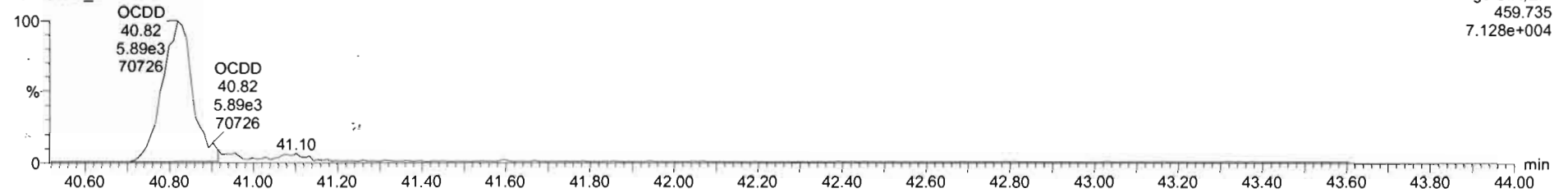
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OCDD

201203R2_2

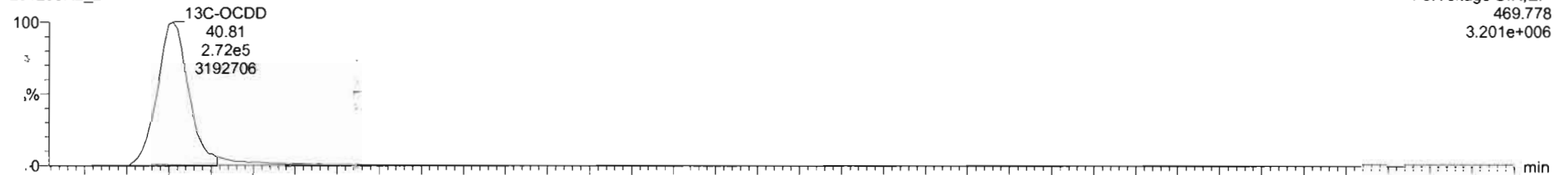


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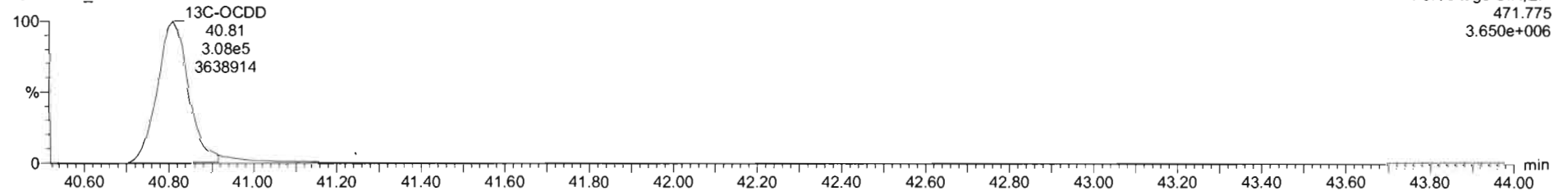


13C-OCDD

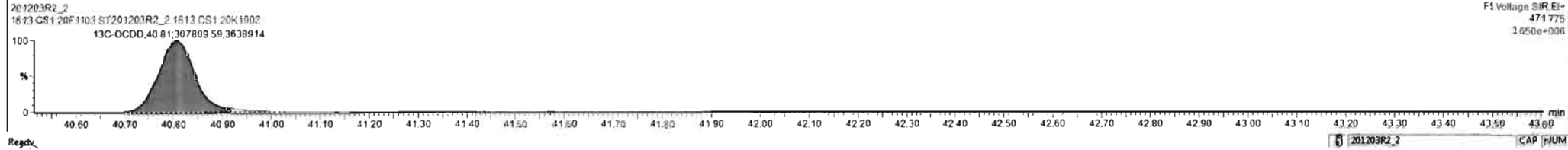
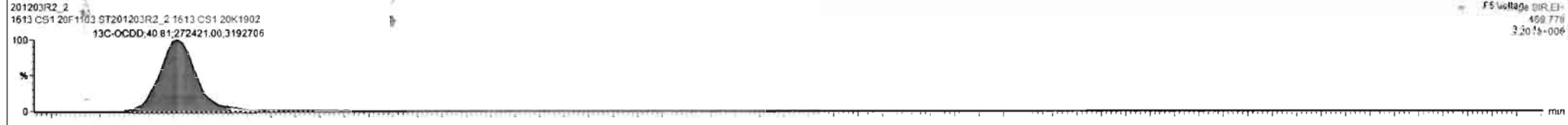
201203R2_2



201203R2_2



#	Name	Resp	RA	n/y	RRF	wtVal	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



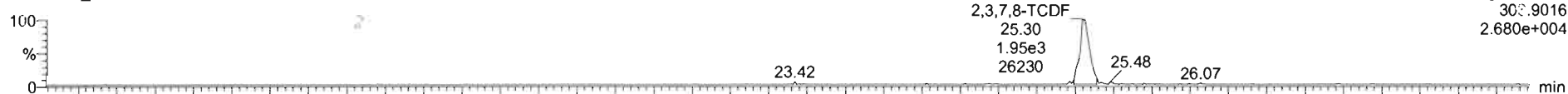
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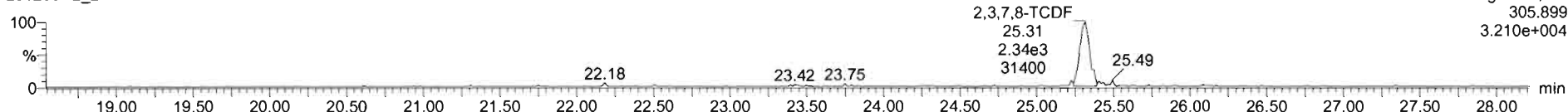
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2,3,7,8-TCDF

201203R2_2

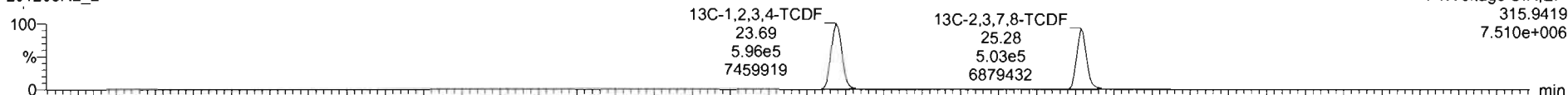


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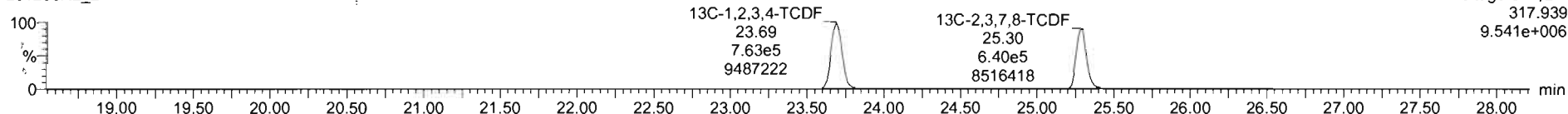


13C-2,3,7,8-TCDF

201203R2_2

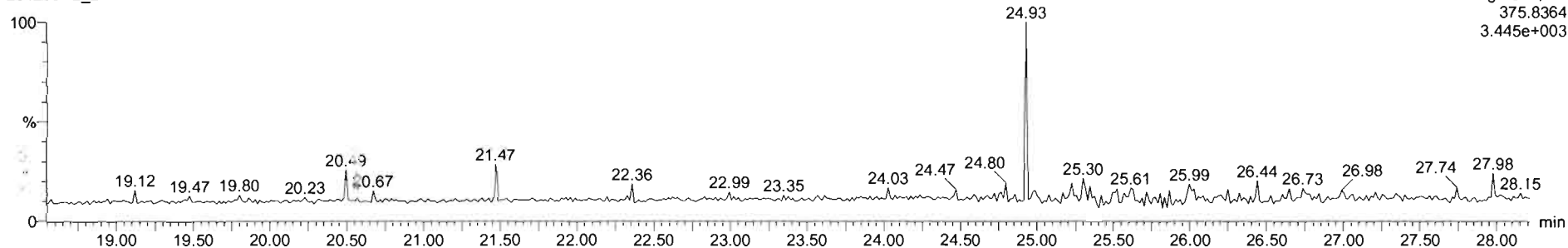


201203R2_2



D1E1

201203R2_2

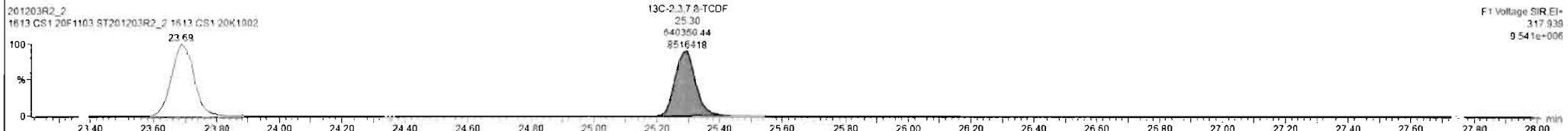
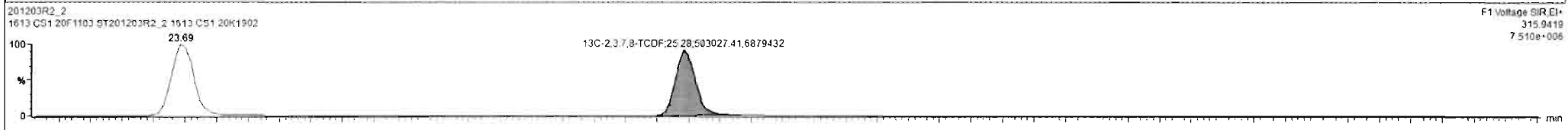
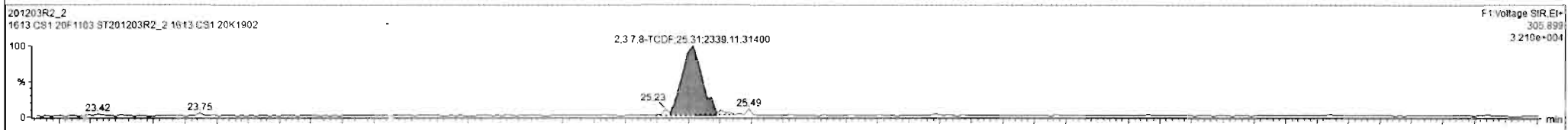
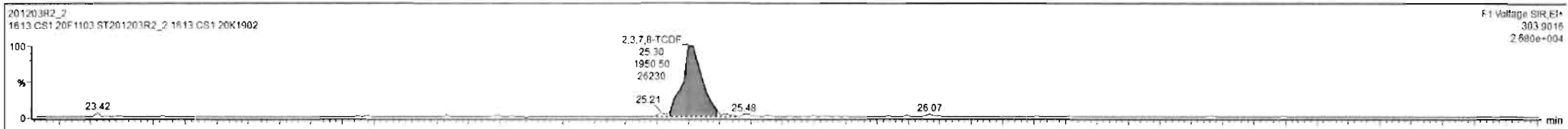


TargetLynx - 201203R2_CRV.gld - [Chromatogram]

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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

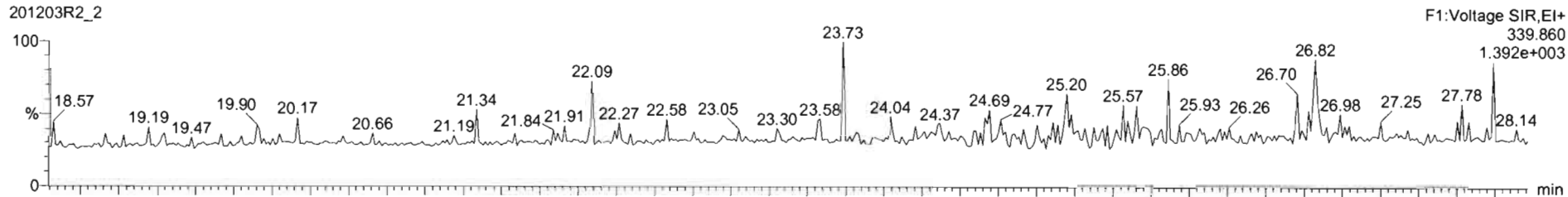
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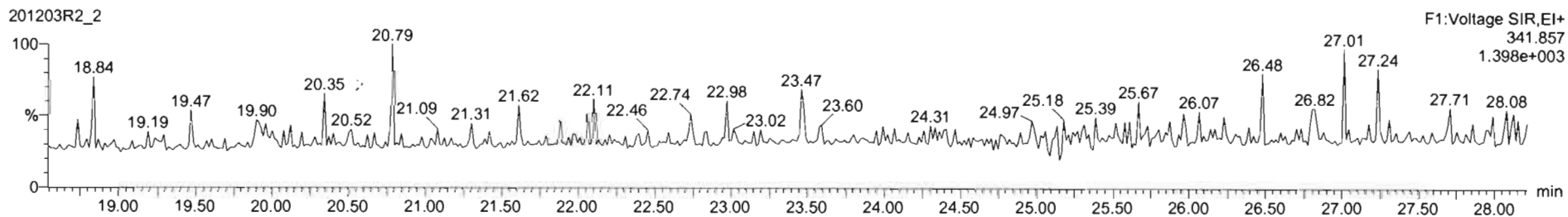
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1st Func. Penta-Furans

201203R2_2

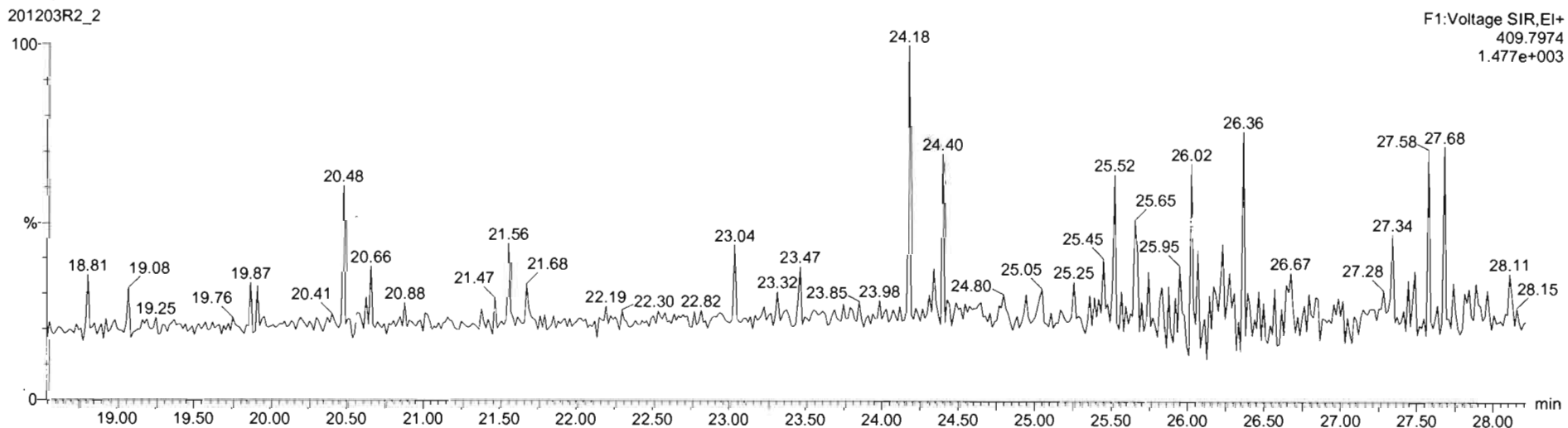


201203R2_2



DPE6

201203R2_2

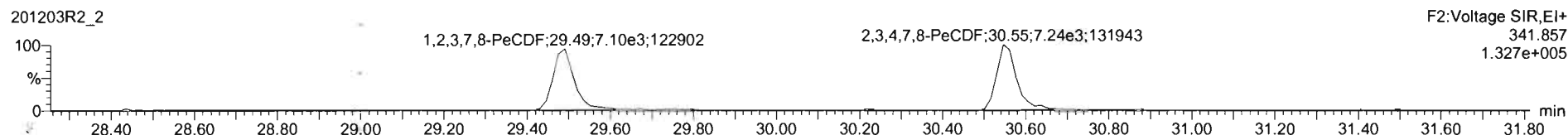
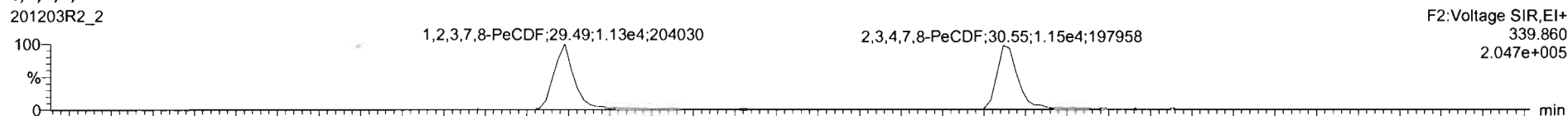


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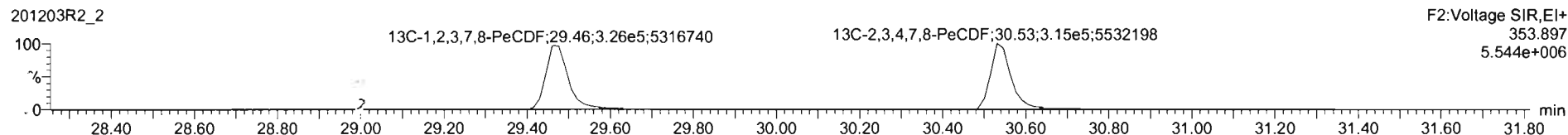
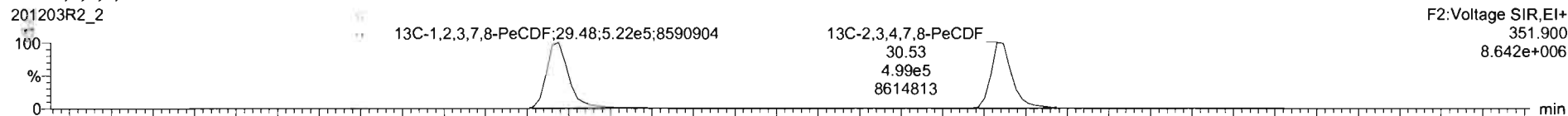
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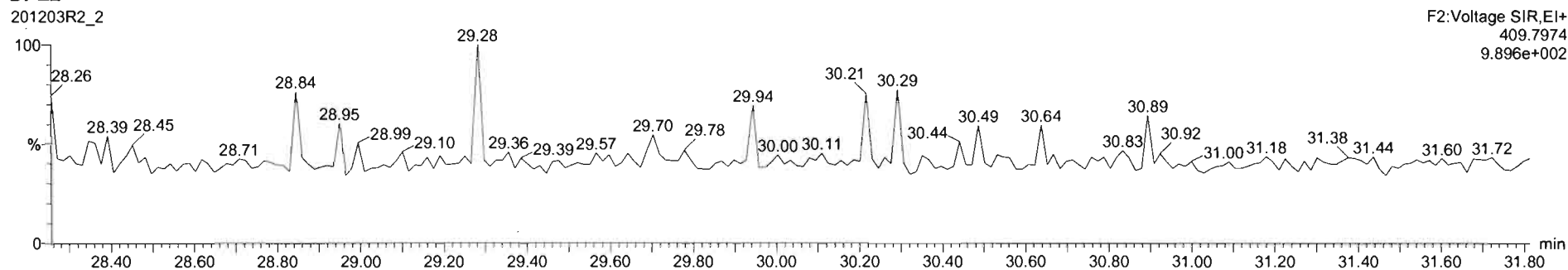
1,2,3,7,8-PeCDF



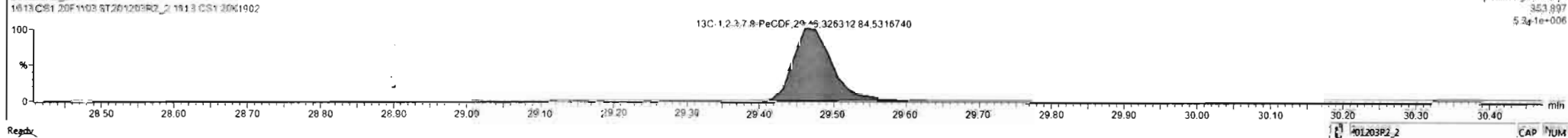
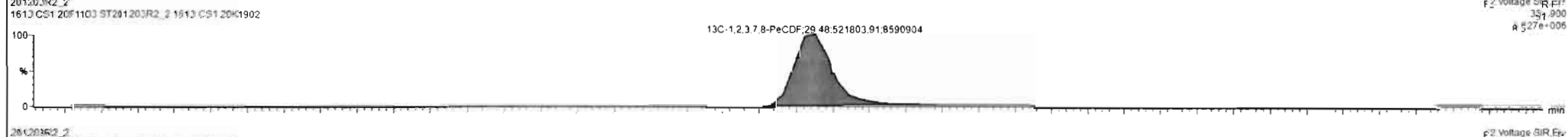
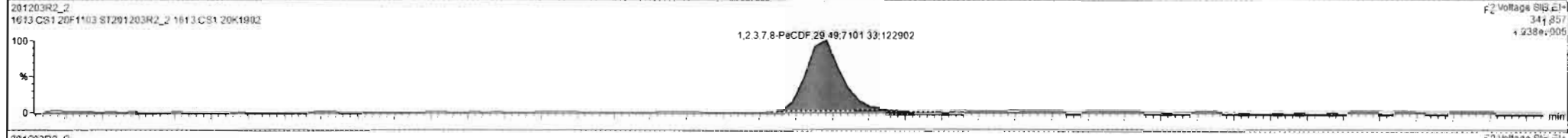
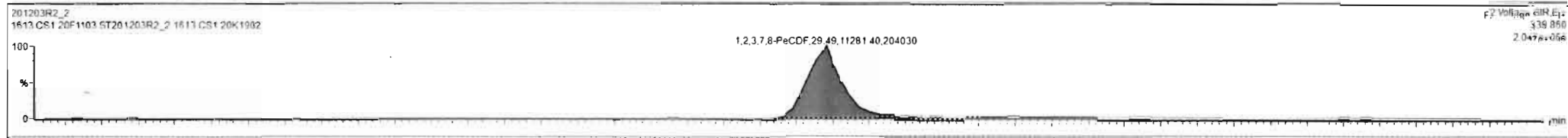
13C-1,2,3,7,8-PeCDF



DPE2



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
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	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	33.96	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

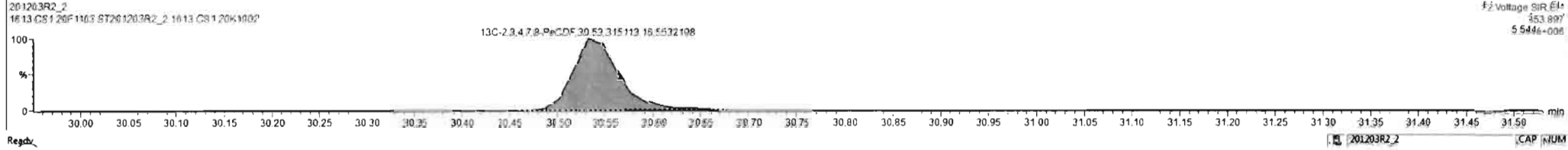
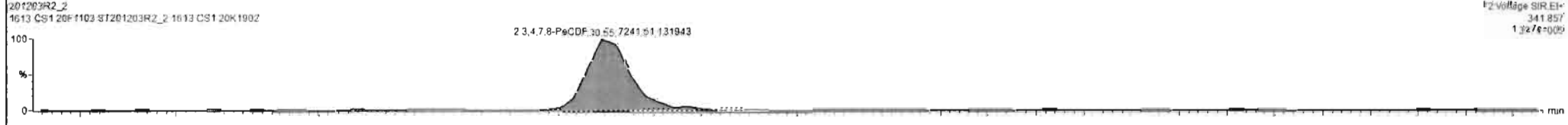
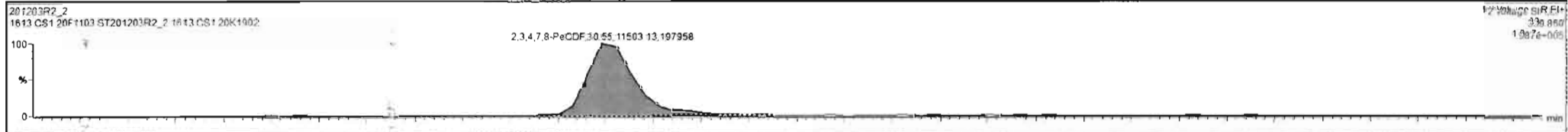


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	nly	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



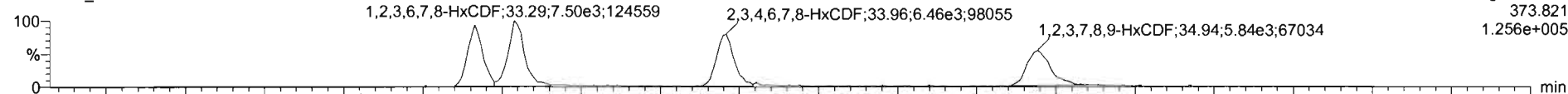
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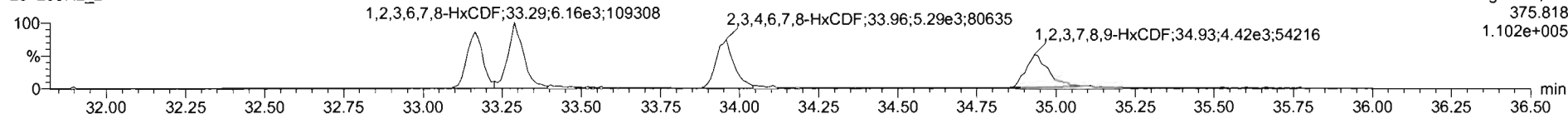
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1, 1,3,4,7,8-HxCDF

201203R2_2

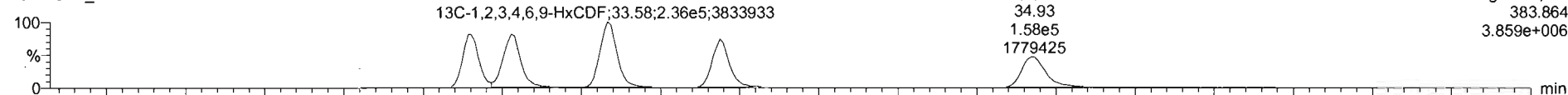


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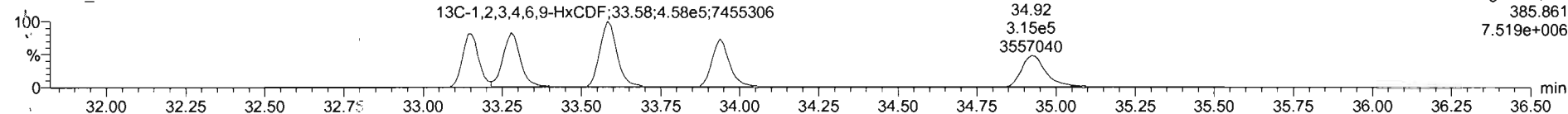


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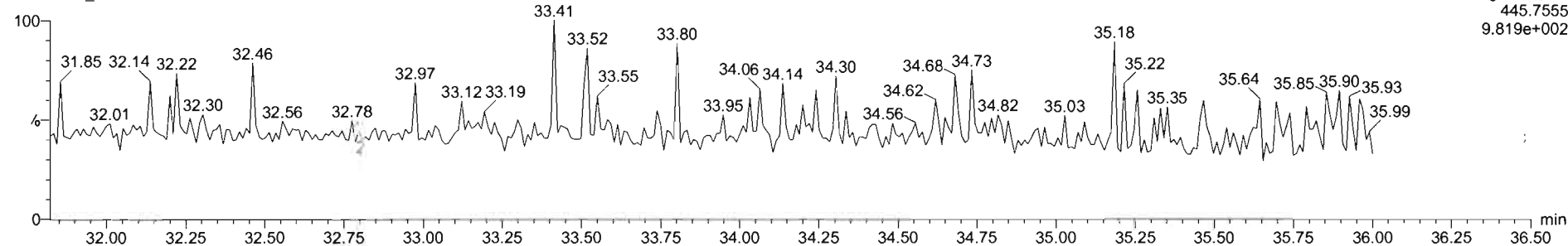


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DPE3

201203R2_2

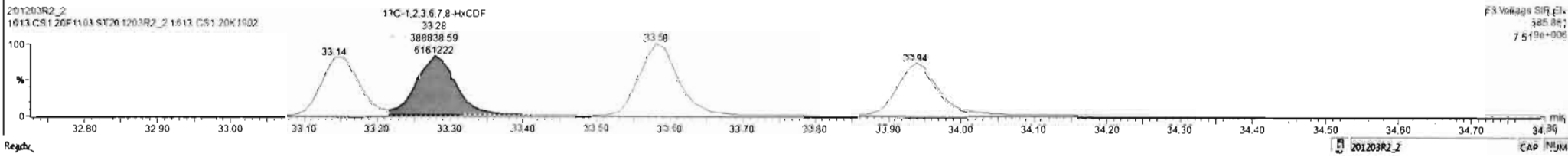
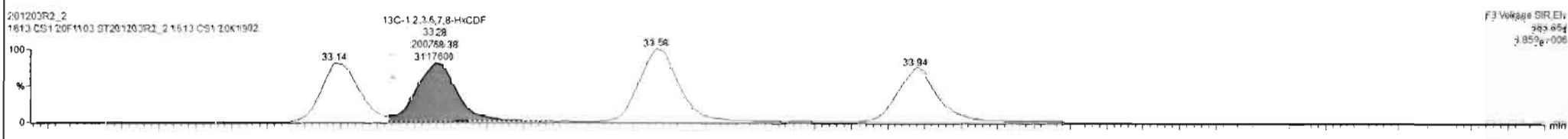
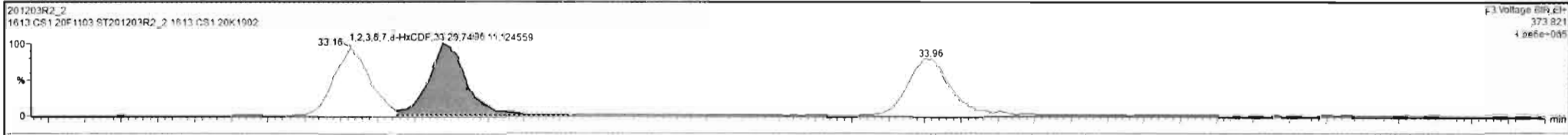


TargetLynx - 271203R2_CRV.qld - [Chromatogram]

File Edit View Display Processing Window Help

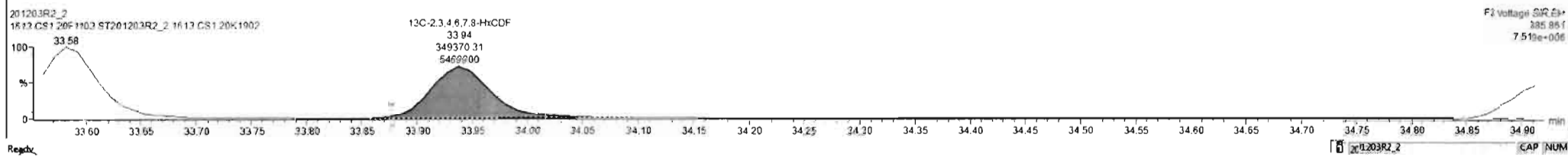
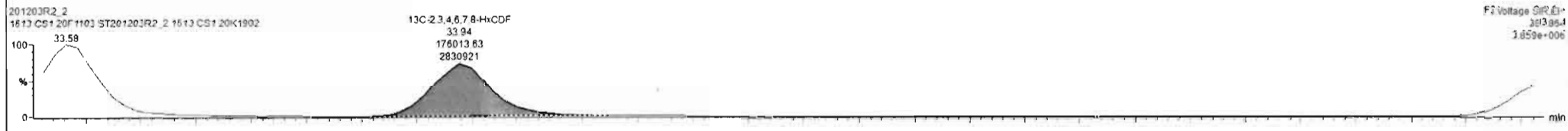
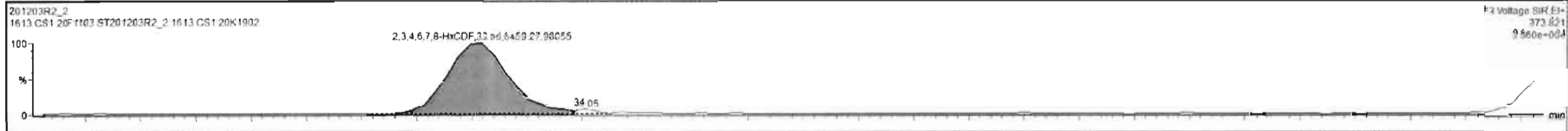
201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

#	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-TCDD	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

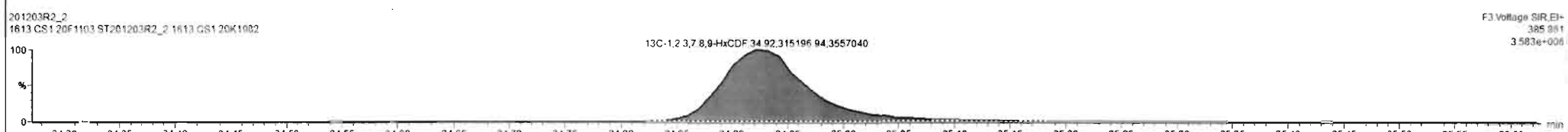
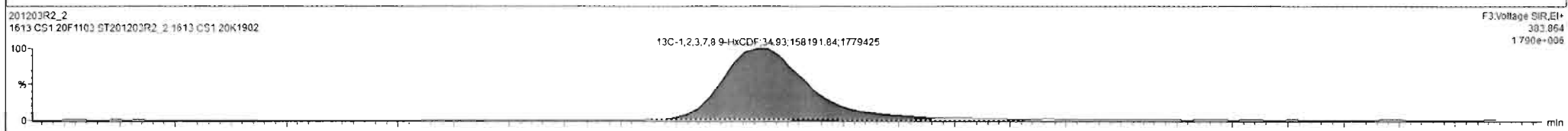
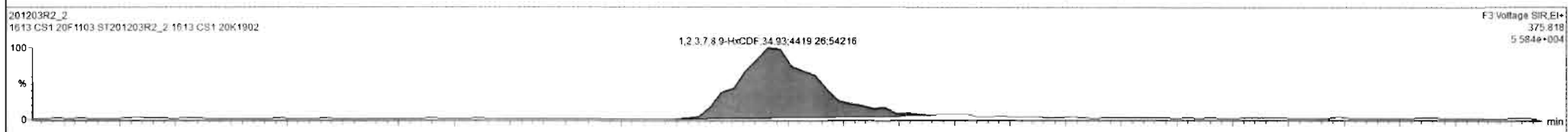
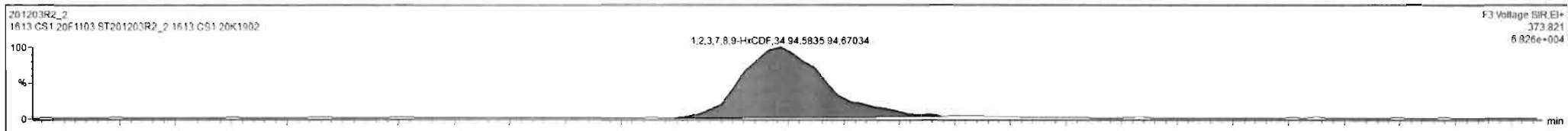
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385.851
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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

Name	Resp	RA	ny	RRF	wsVol	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	0.0428	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-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

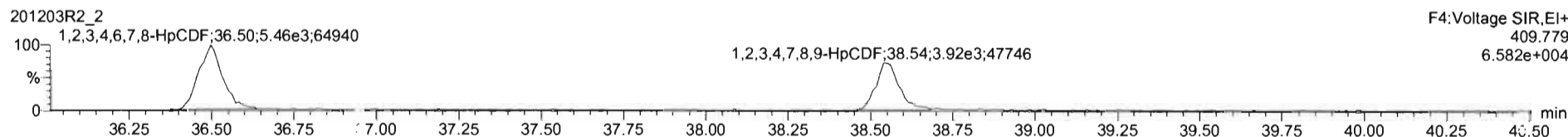
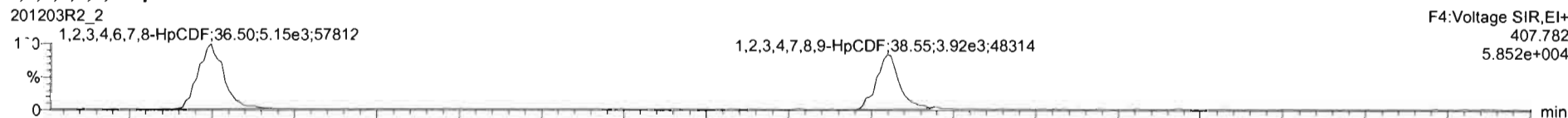


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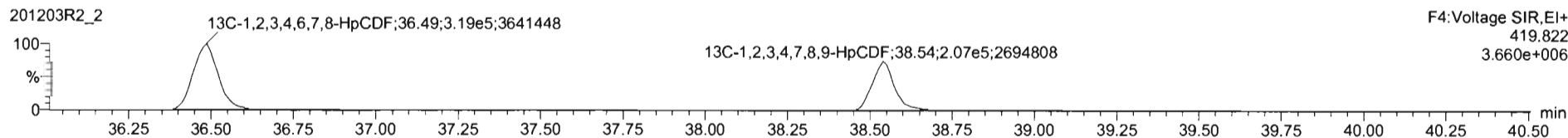
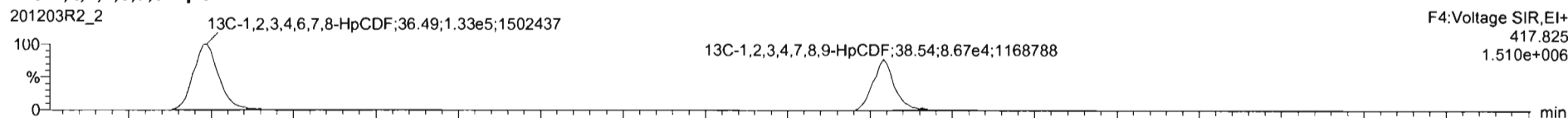
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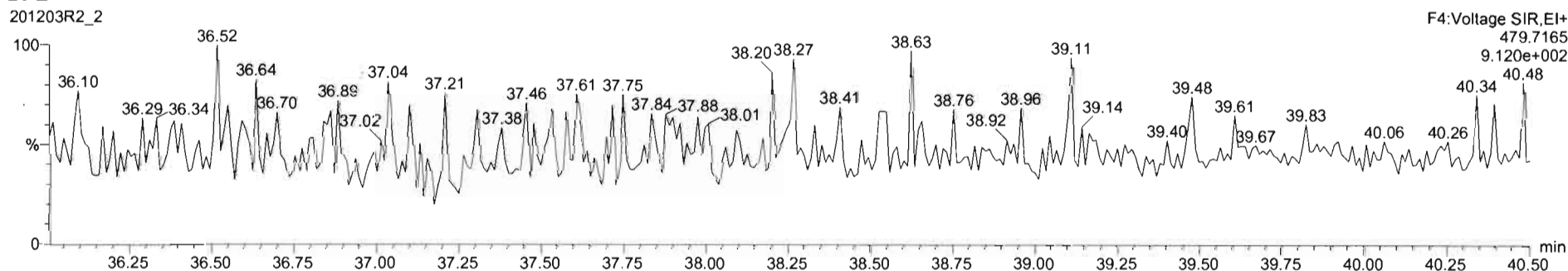
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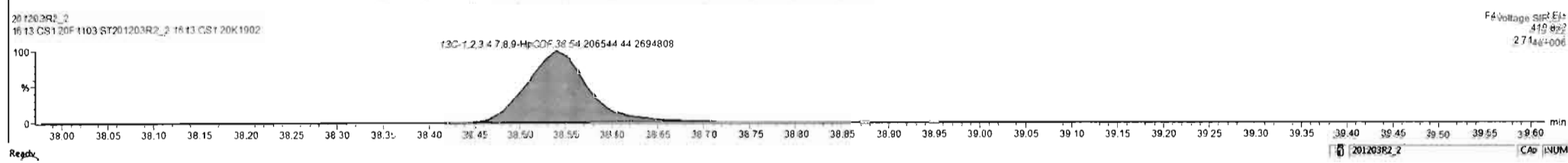
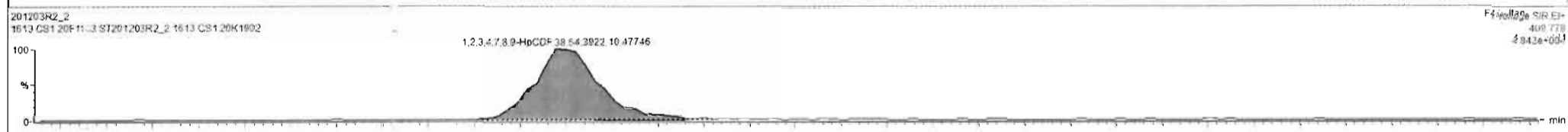
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DPE4



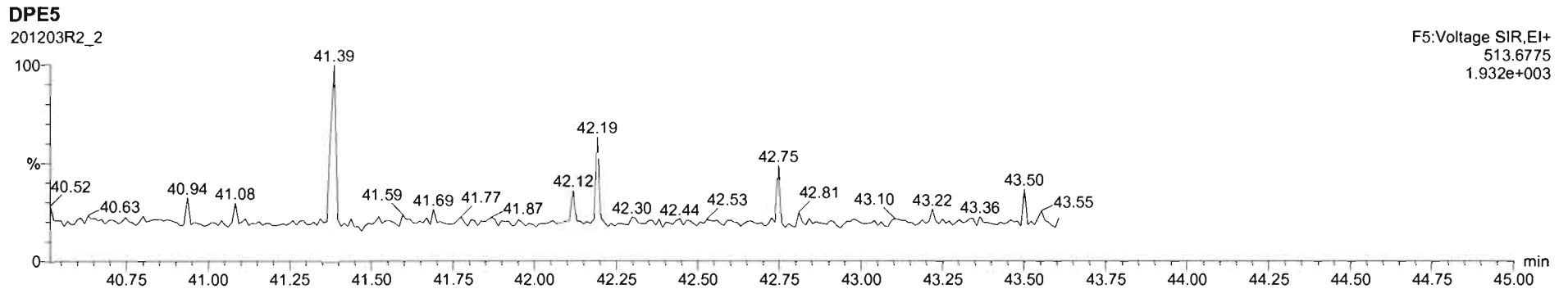
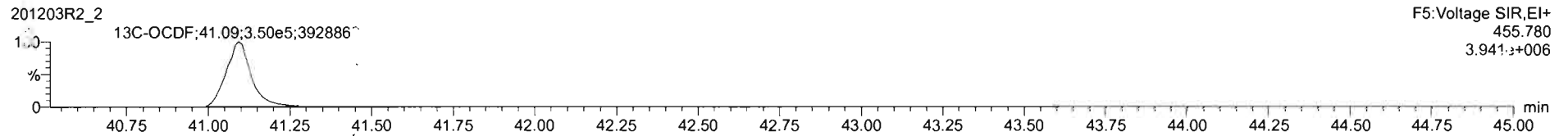
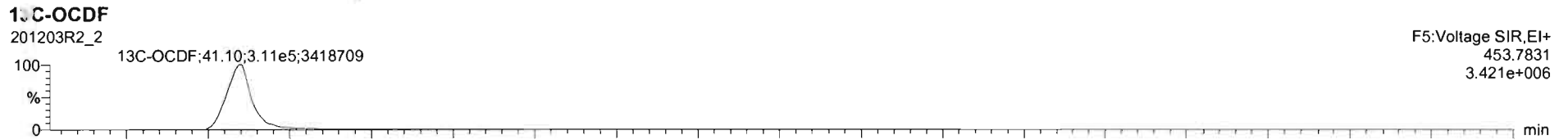
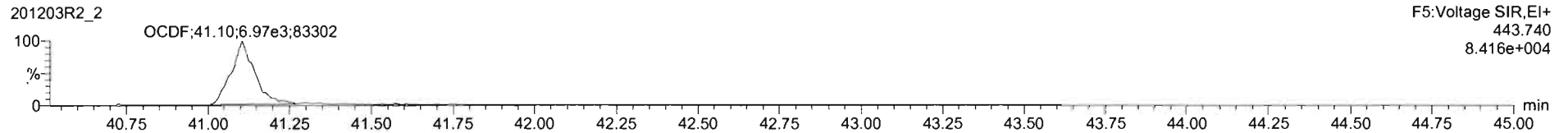
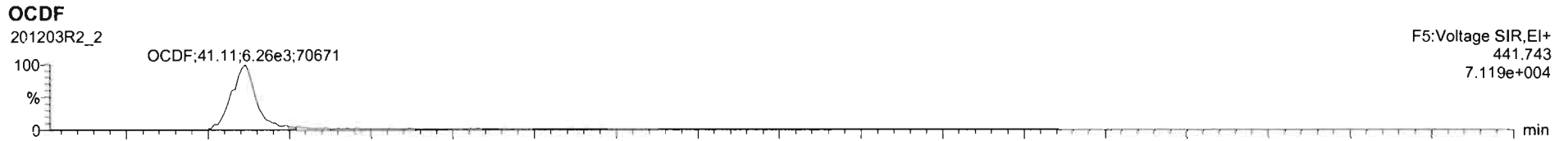
Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
16 1,2,3,4,7,8,9-HpCDF	7.84e3	1.00	NO	1.18	1.000	38.55	1.000	2.27	90.9	0.0487	2.27
17 OCDF	1.32e4	0.90	NO	0.90	1.000	41.11	1.000	4.46	89.3	0.0626	4.46
18 13C-2,3,7,8-TCDD	7.75e5	0.75	NO	1.06	1.000	25.98	1.031	90.5	90.5	0.123	
19 13C-1,2,3,7,8-PeCDD	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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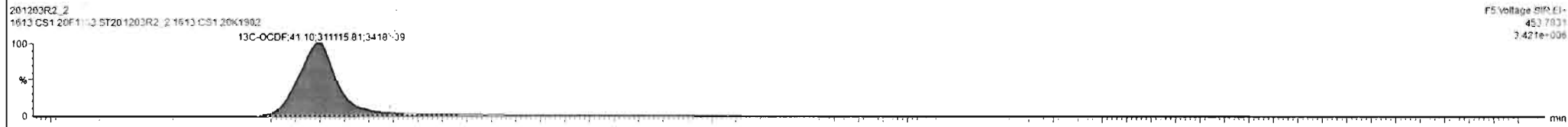
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201203R2_2 - ST201203R2_2 1613 CS1 20K1902 - 1613 CS1 20K1902

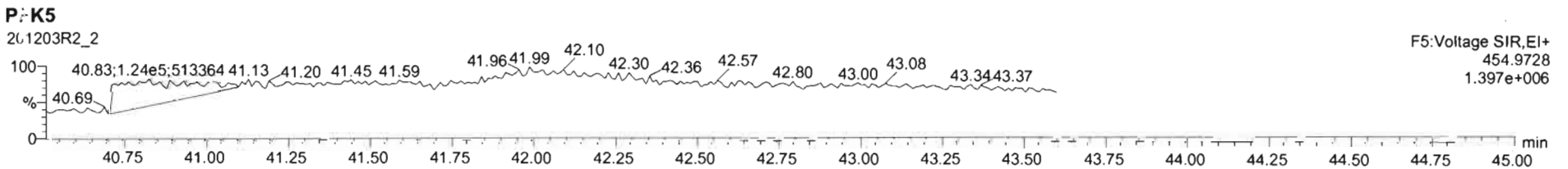
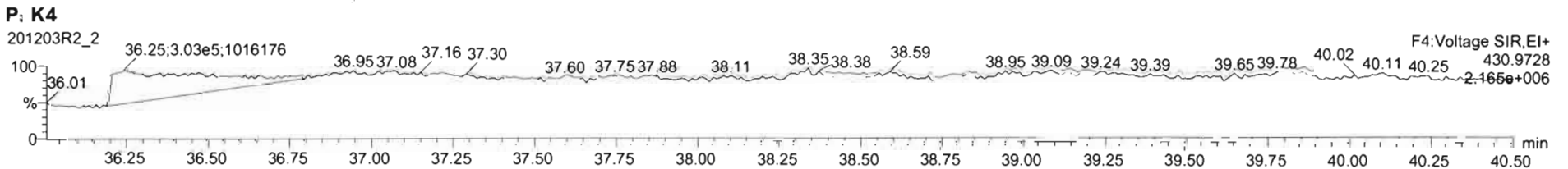
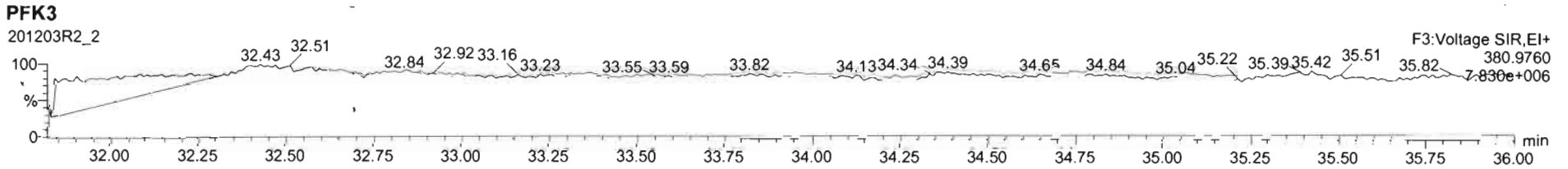
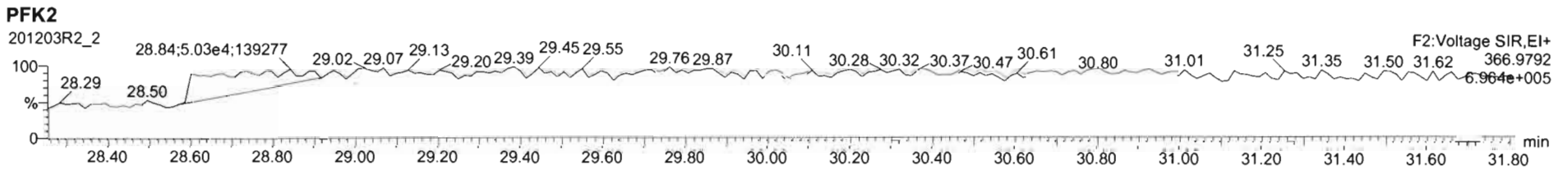
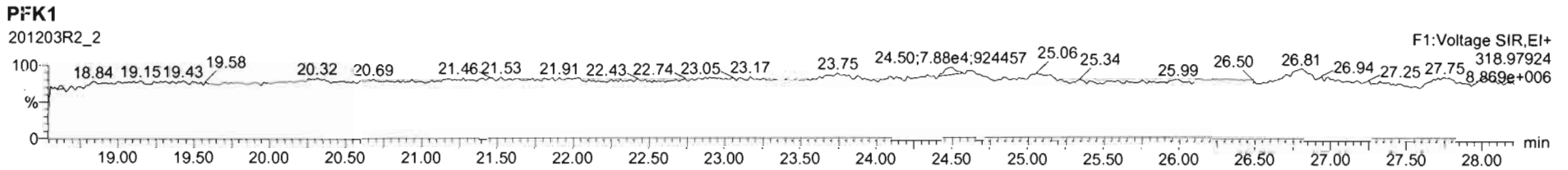
Name	Resp	RA	n/y	RRF	wf/wf	RT	RRT	Conc	%Rec	DL	EMPC
16 1,2,3,4,7,8,9-HpCDF	7.84e3	1.00	NO	1.18	1.000	38.55	1.000	2.27	90.9	0.0487	2.27
17 OCDF	1.32e4	0.90	NO	0.90	1.000	41.11	1.000	4.46	89.3	0.0626	4.46
18 13C-2,3,7,8-TCDD	7.75e5	0.78	NO	1.06	1.000	25.18	1.021	90.5	90.5	0.123	
19 13C-1,2,3,7,8-PeCDD	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	82.5	0.261	
21 13C-1,2,3,8,7,8-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-1,2,3,4,8,7,8-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	0.89	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

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_2, Date: 03-Dec-2020, Time: 11:28:04, ID: ST201203R2_2 1613 CS1 20K1902, Description: 1613 CS1 20F1103



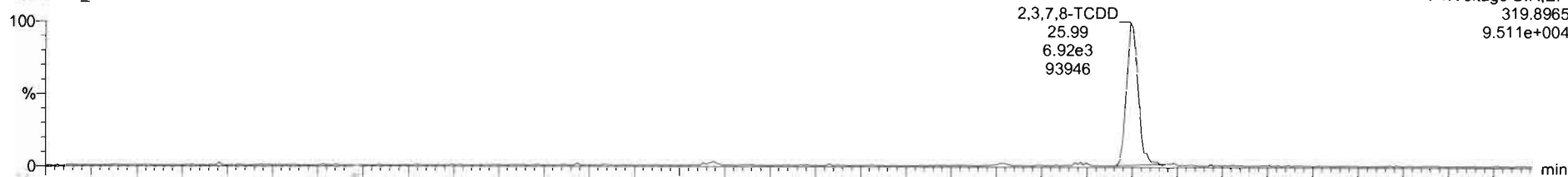
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

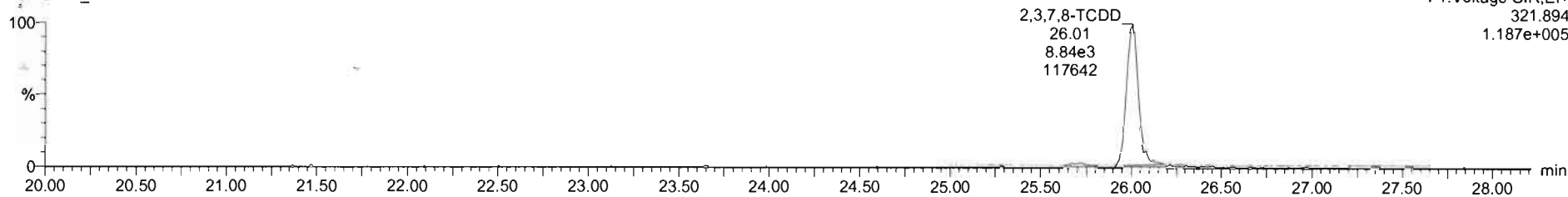
Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

2,3,7,8-TCDD

201203R2_3

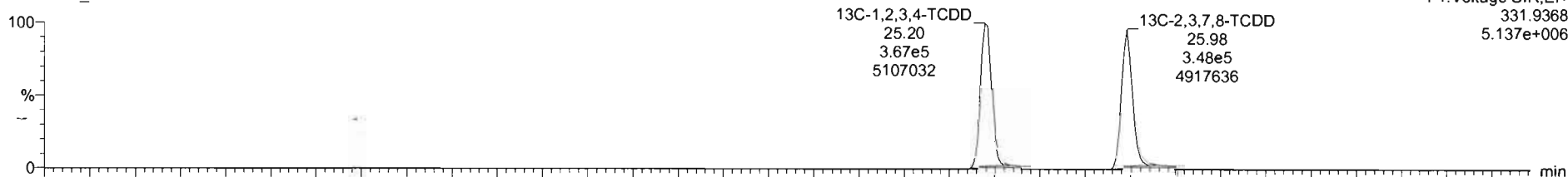


201203R2_3

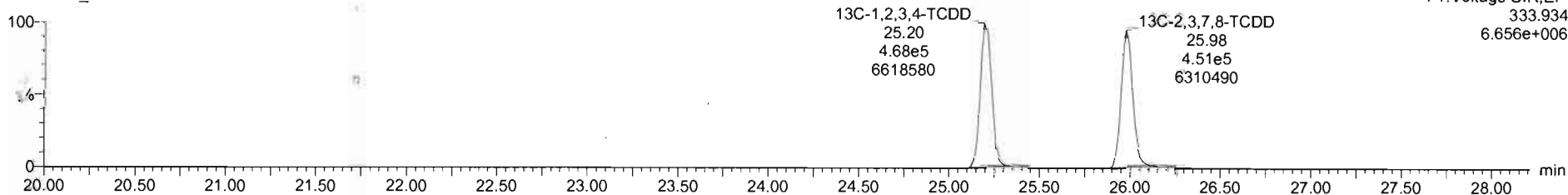


13C-2,3,7,8-TCDD

201203R2_3



201203R2_3



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

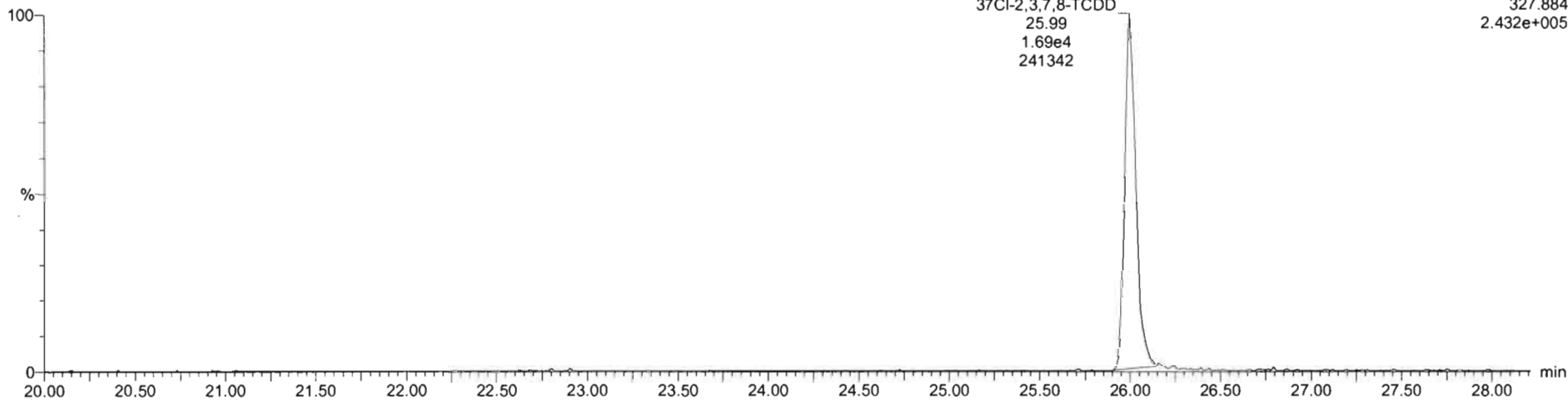
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

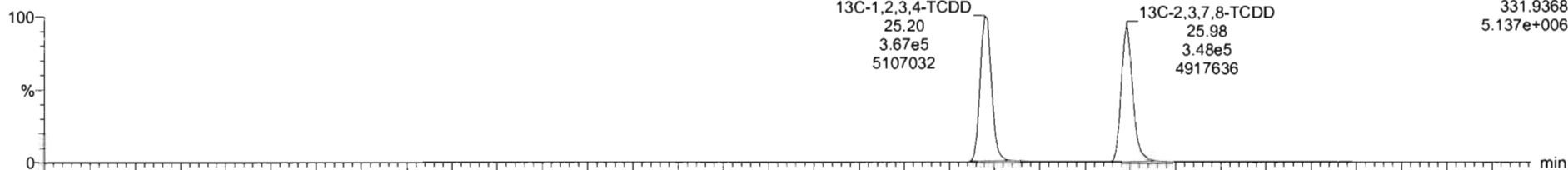
37Cl-2,3,7,8-TCDD

201203R2_3

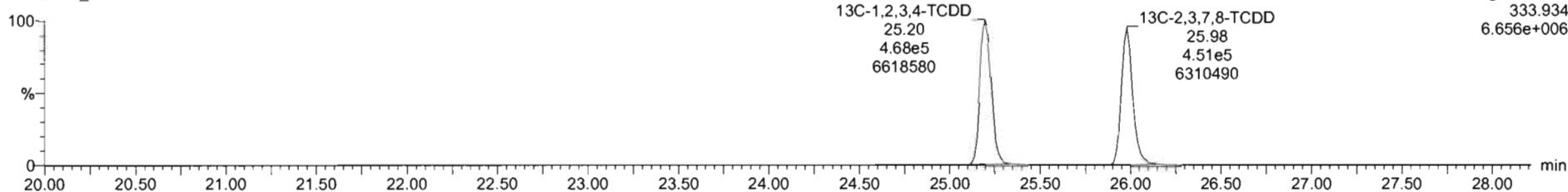


13C-1,2,3,4-TCDD

201203R2_3



201203R2_3



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

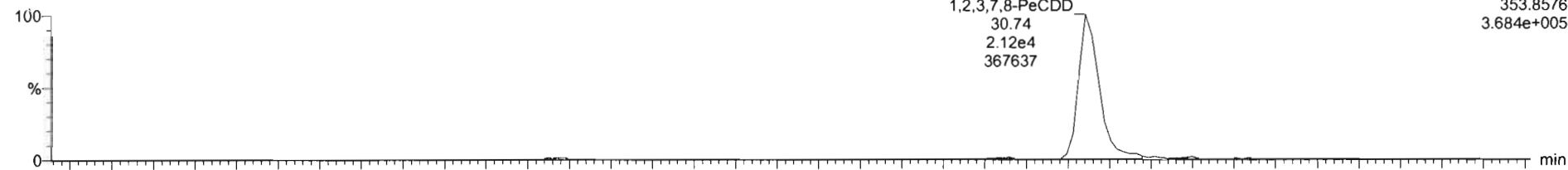
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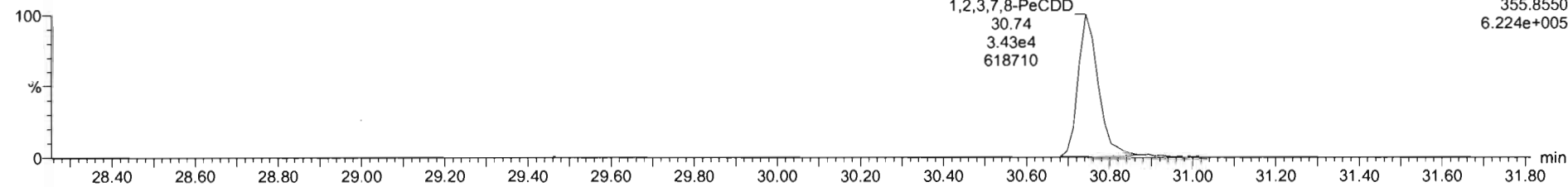
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1,2,3,7,8-PeCDD

201203R2_3

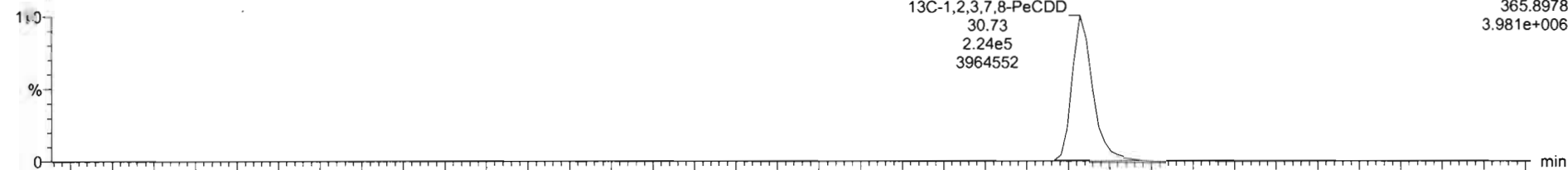


201203R2_3

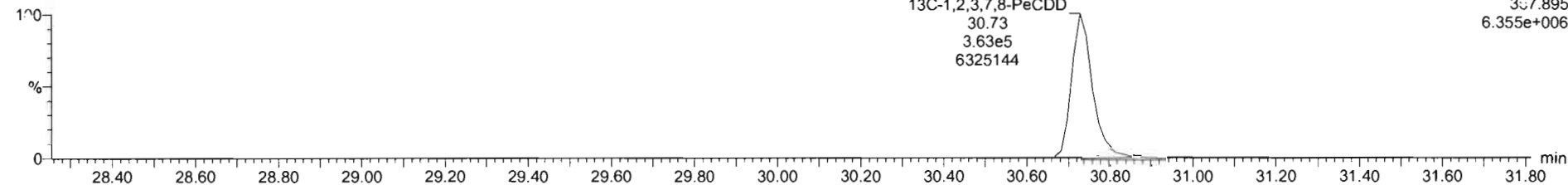


13C-1,2,3,7,8-PeCDD

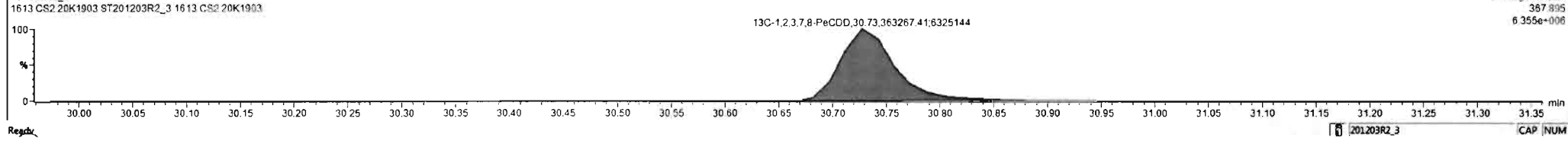
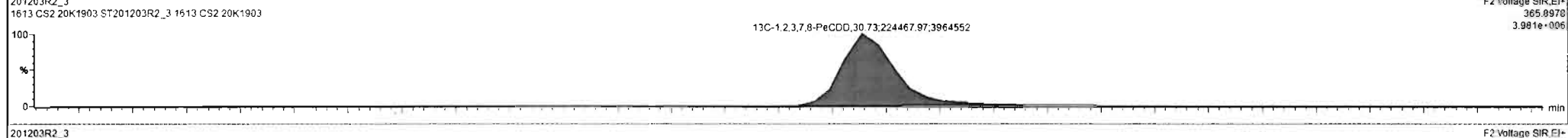
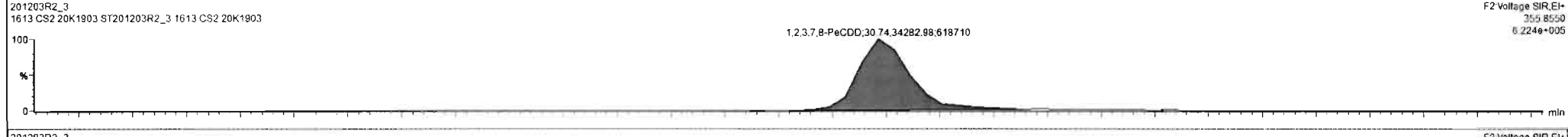
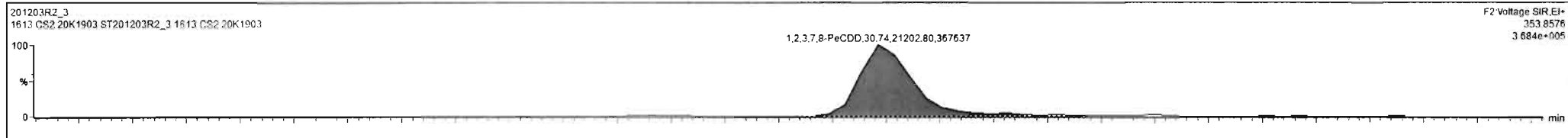
201203R2_3



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



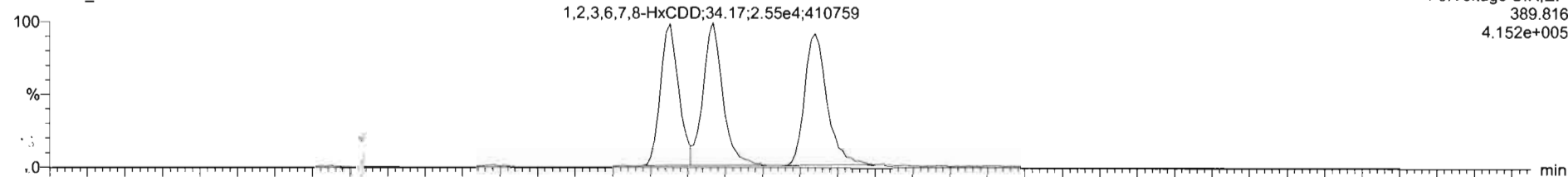
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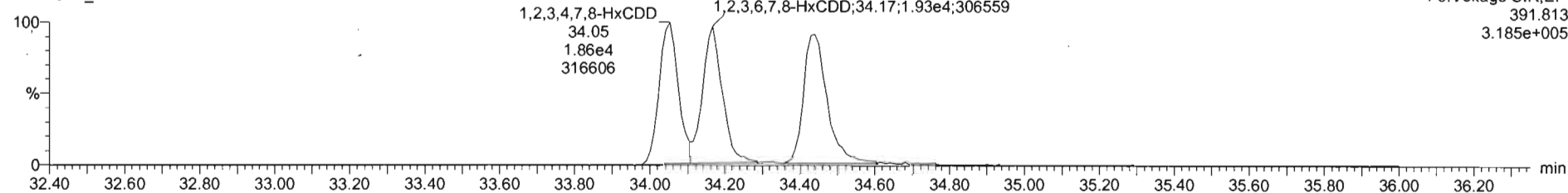
Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

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

201203R2_3

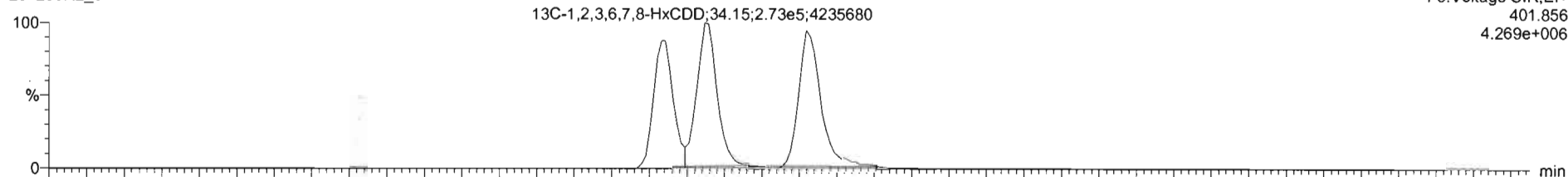


201203R2_3

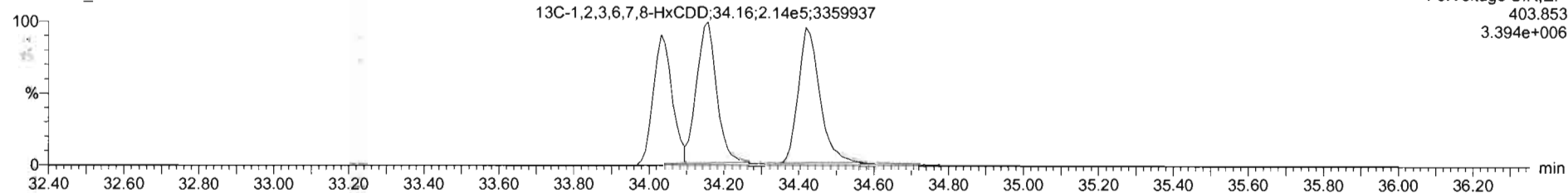


13C-1,2,3,4,7,8-HxCDD

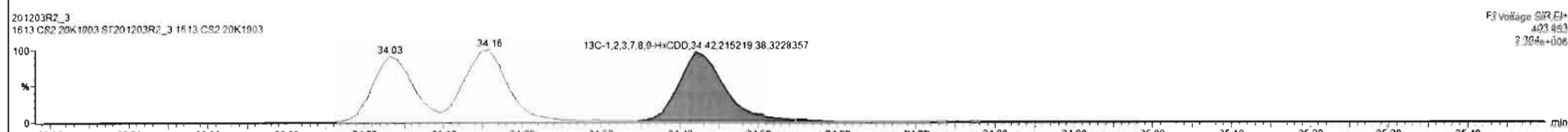
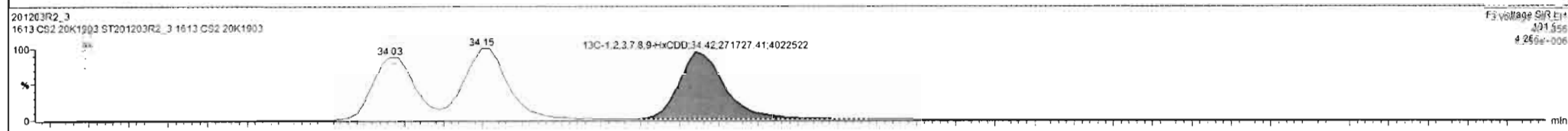
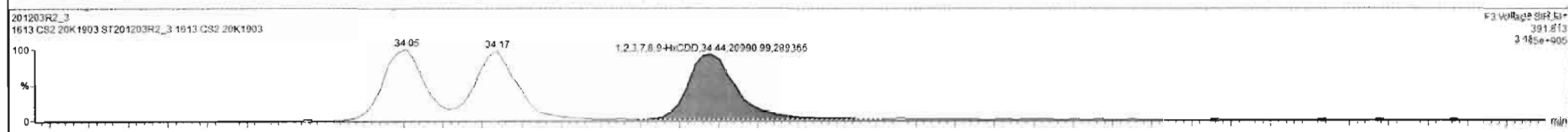
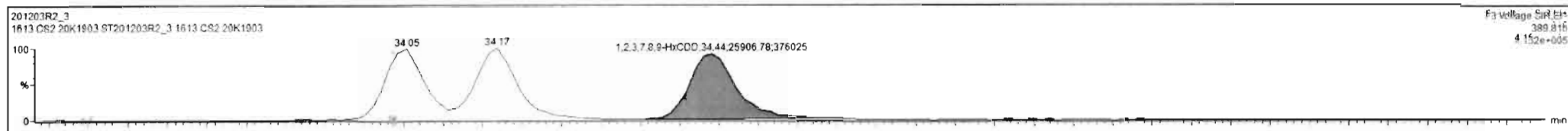
201203R2_3



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	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	1.26	NO	0.9868	34.92	34.94	NO	1.000	1.001	10.1	101	NO



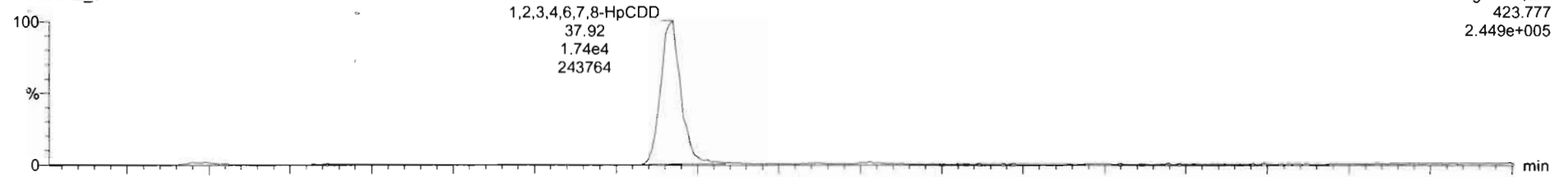
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

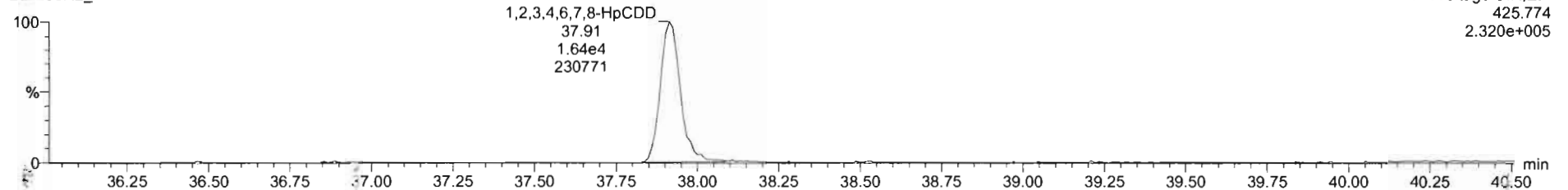
1,2,3,4,6,7,8-HpCDD

201203R2_3



F4:Voltage SIR, EI+
423.777
2.449e+005

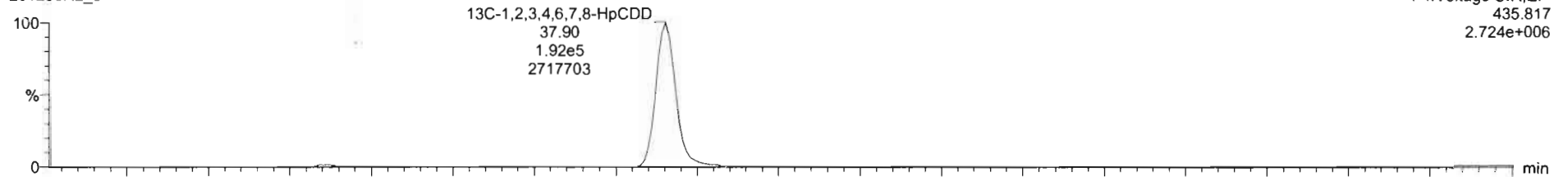
201203R2_3



F4:Voltage SIR, EI+
425.774
2.320e+005

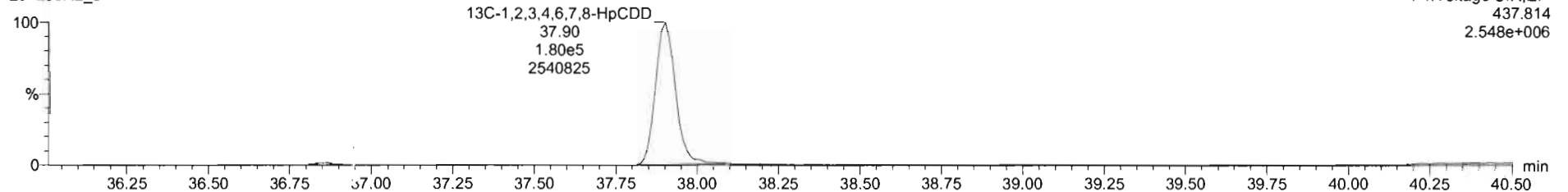
13C-1,2,3,4,6,7,8-HpCDD

201203R2_3



F4:Voltage SIR, EI+
435.817
2.724e+006

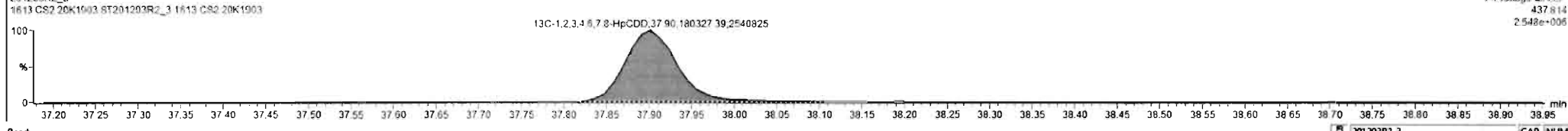
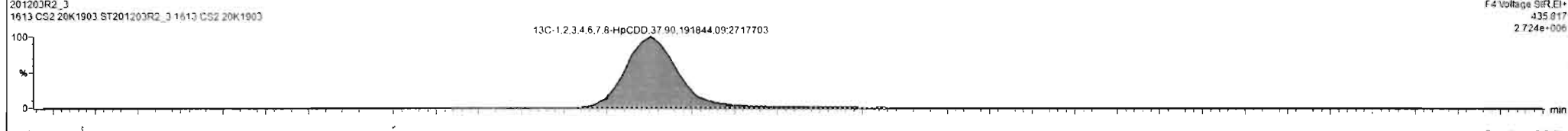
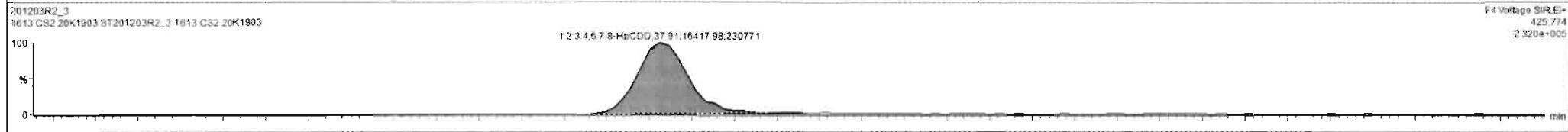
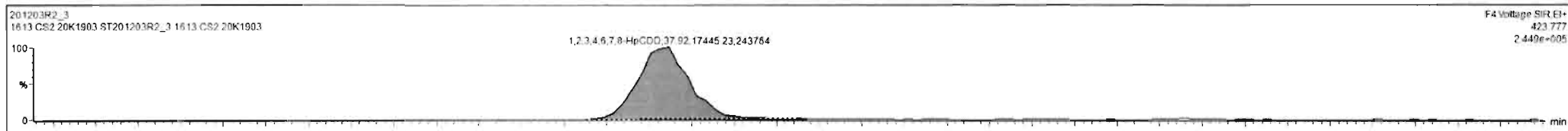
201203R2_3



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



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

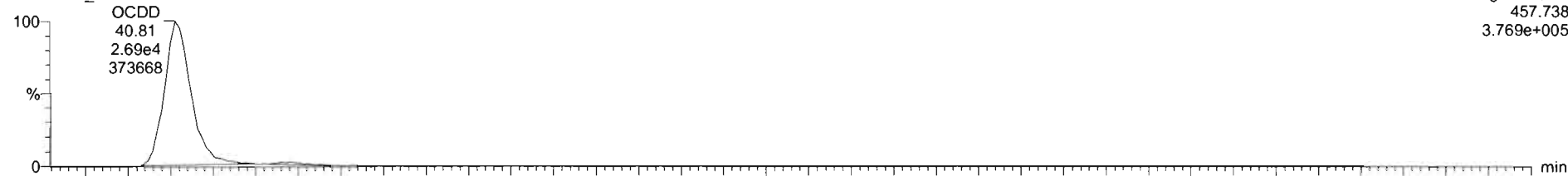
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

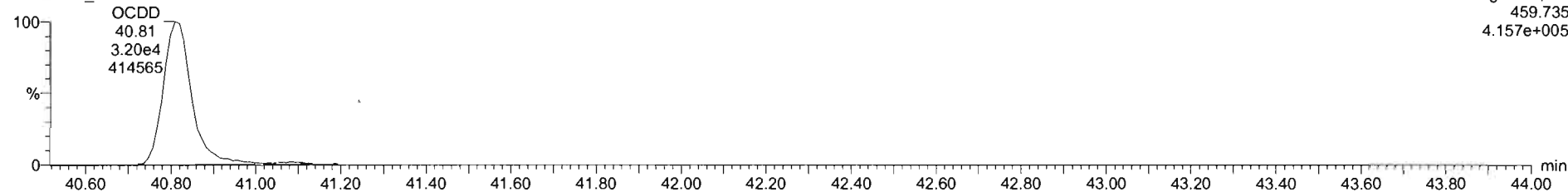
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OCDD

201203R2_3

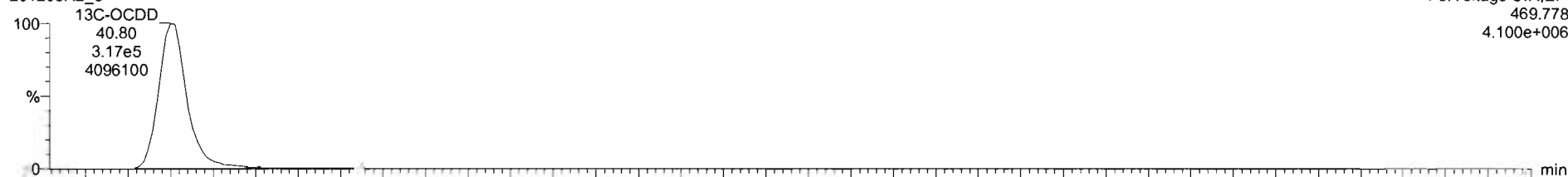


201203R2_3

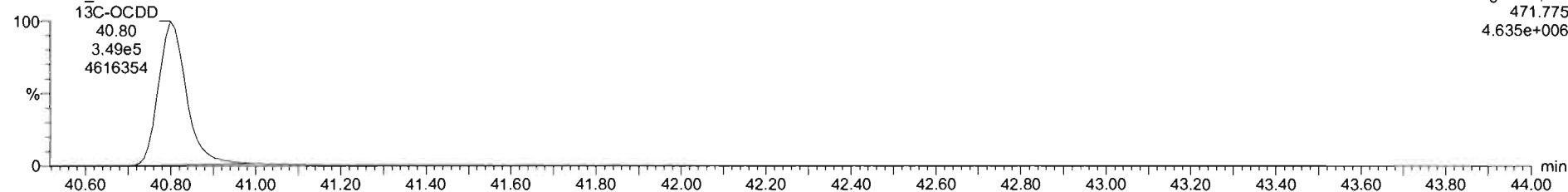


¹³C-OCDD

201203R2_3

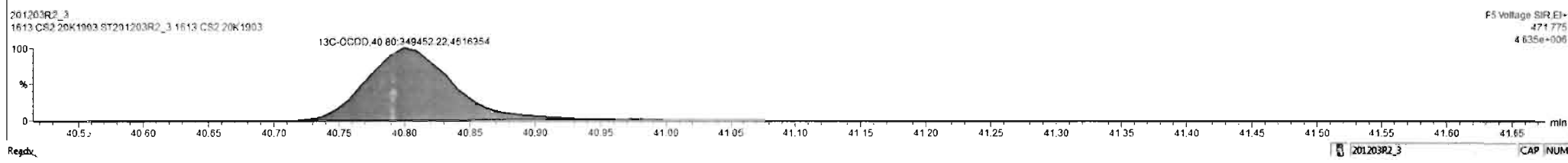
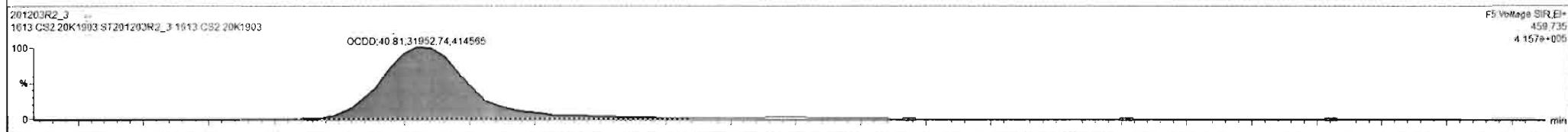


201203R2_3



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



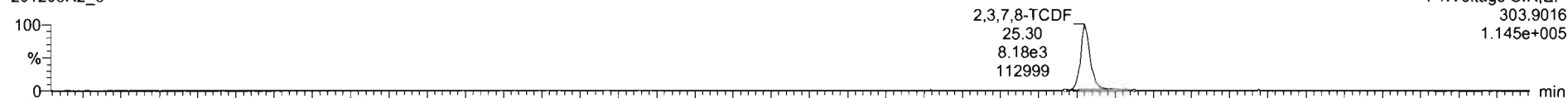
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

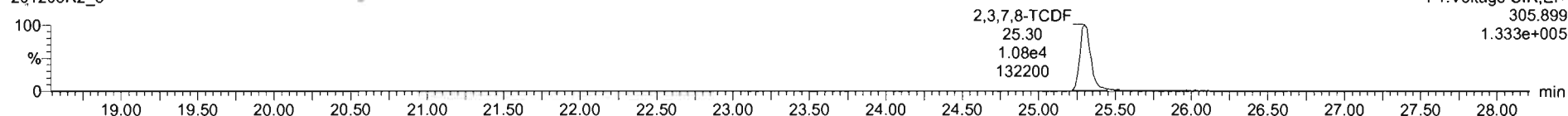
N..me: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

2,3,7,8-TCDF

201203R2_3

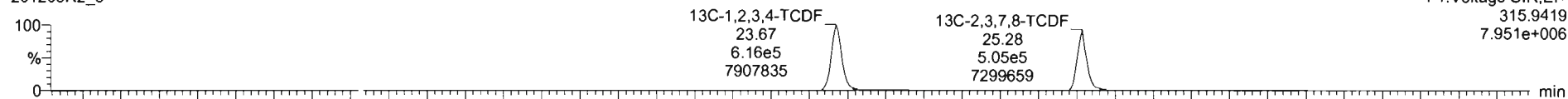


201203R2_3

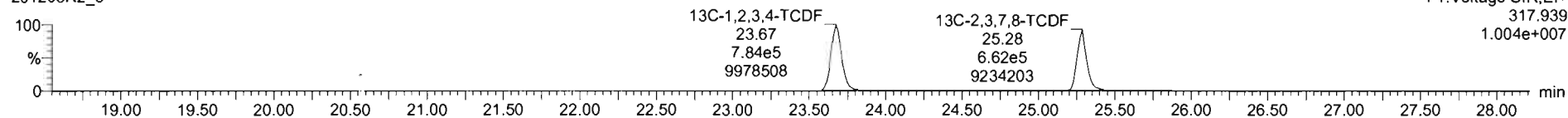


13C-2,3,7,8-TCDF

201203R2_3

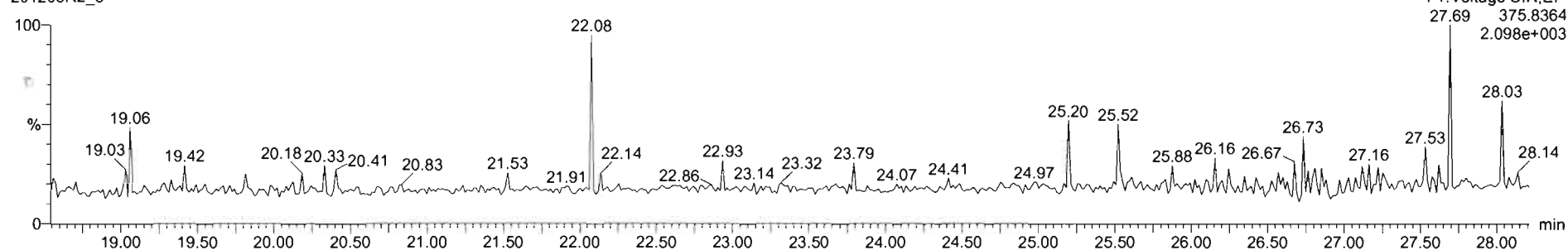


201203R2_3

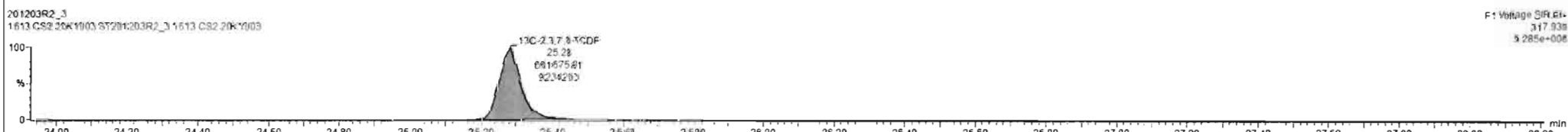
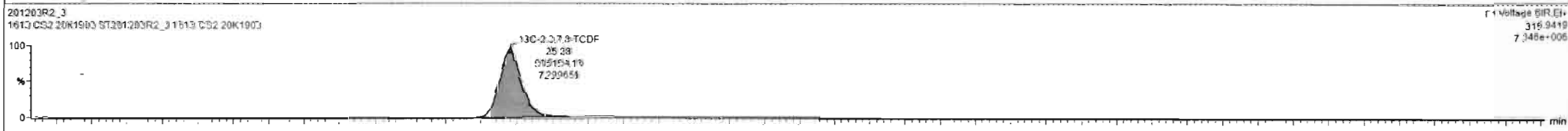
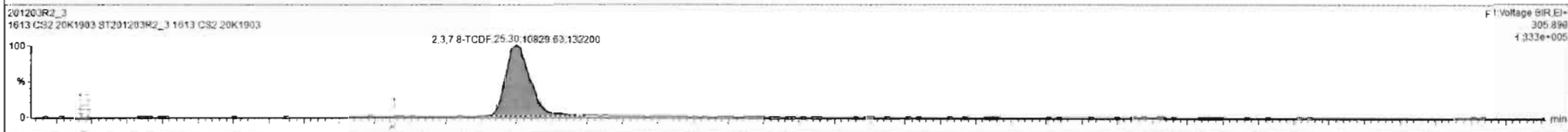


DPE1

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

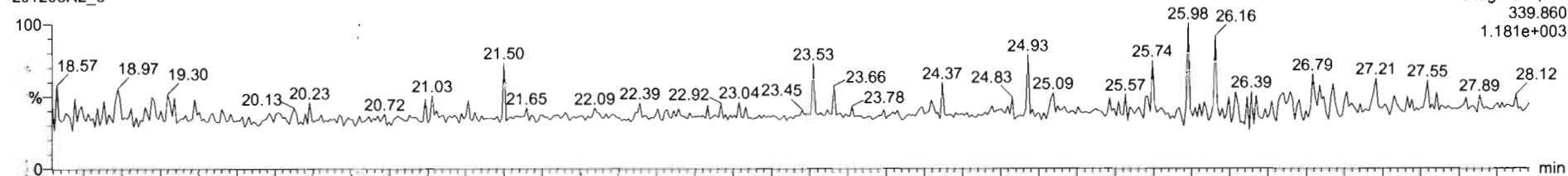
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

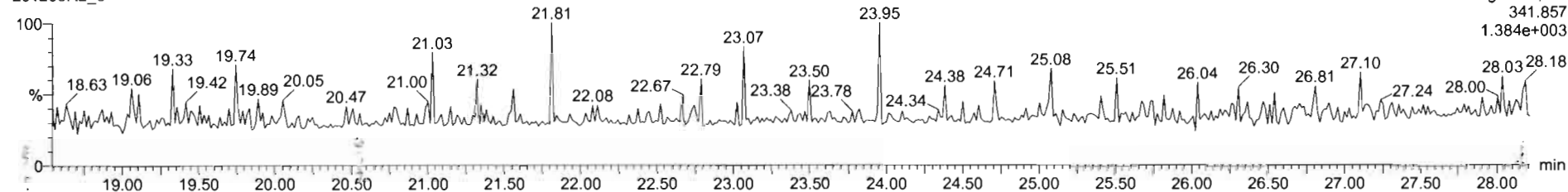
Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

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201203R2_3

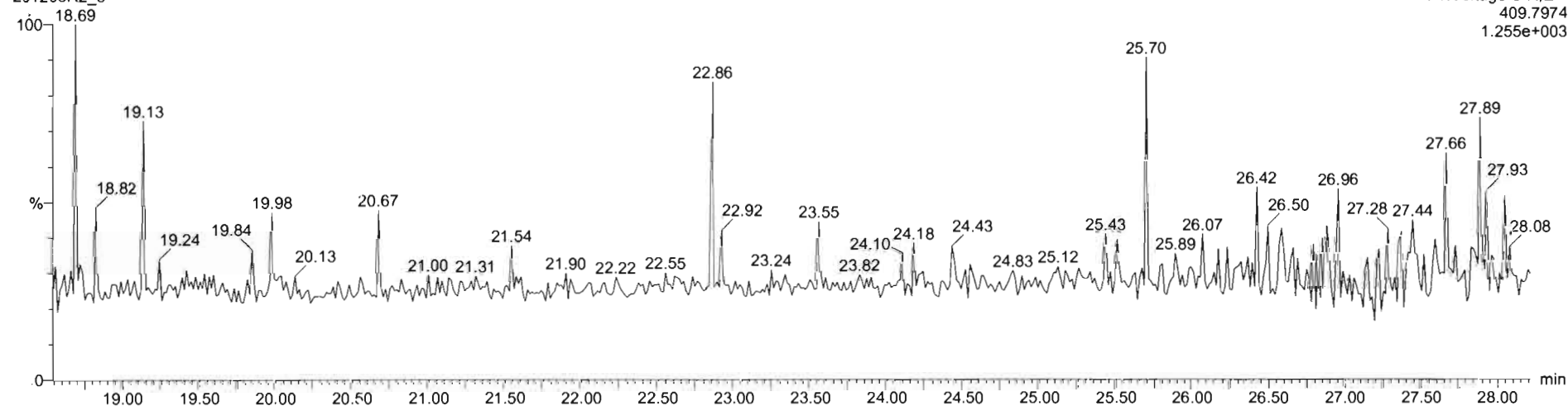


201203R2_3



DPE6

201203R2_3



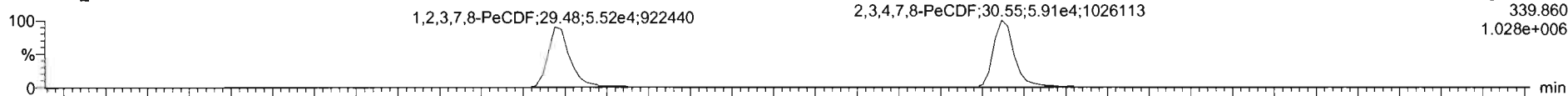
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

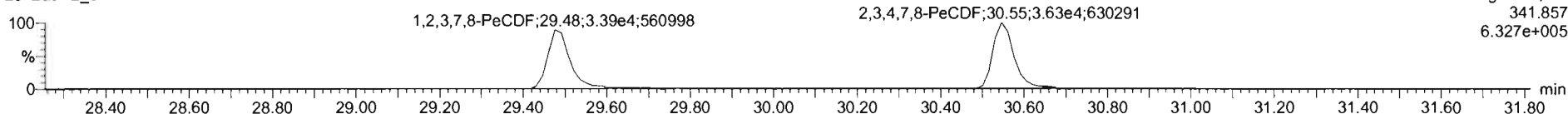
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1,2,3,7,8-PeCDF

201203R2_3

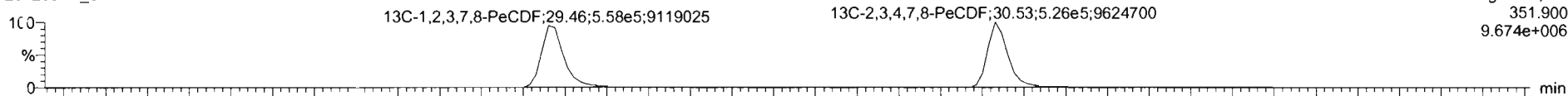


201203R2_3

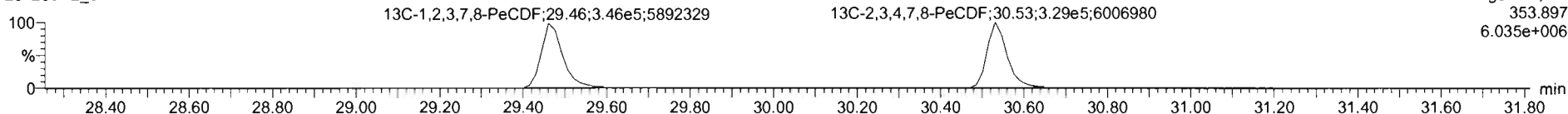


13C-1,2,3,7,8-PeCDF

201203R2_3

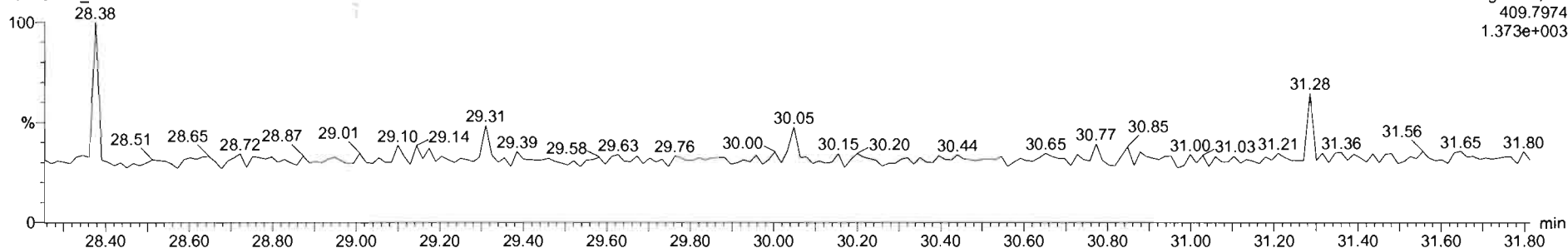


201203R2_3

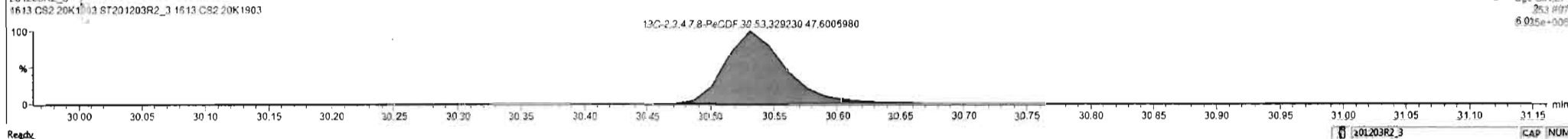
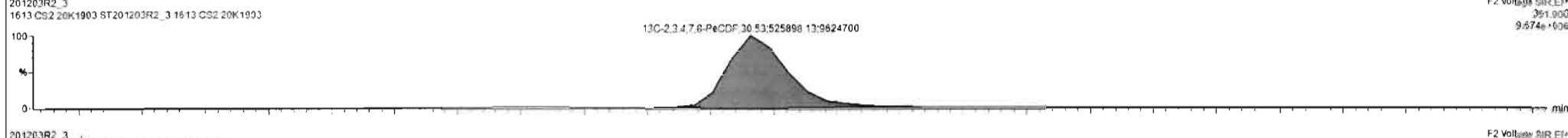
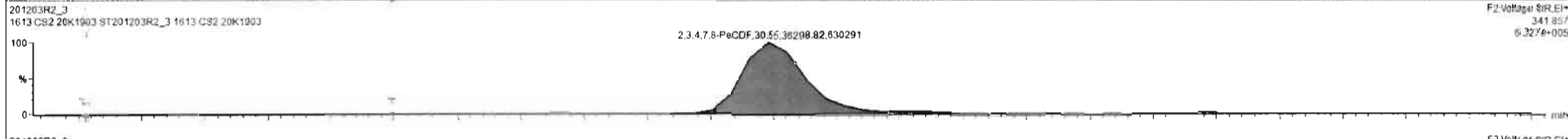
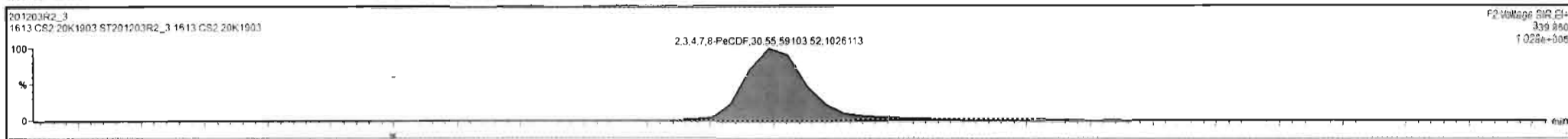


DPE2

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	1,2,3,4,6,7,8-HpCDD	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	0.8460	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	9.55e5	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



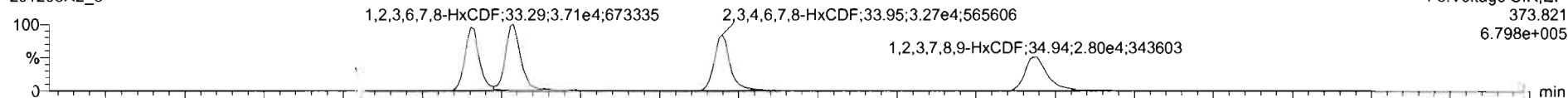
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

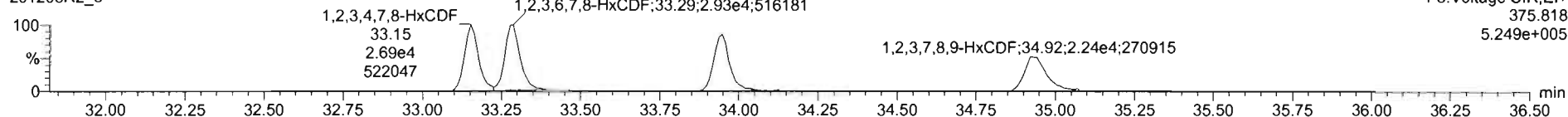
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1,2,3,4,7,8-HxCDF

201203R2_3

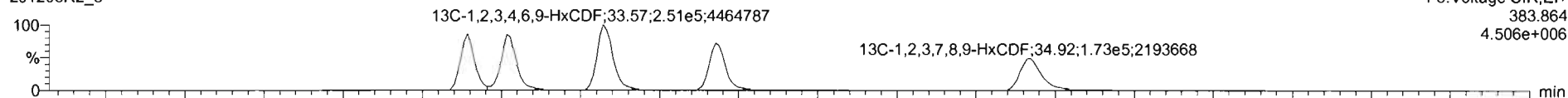


201203R2_3

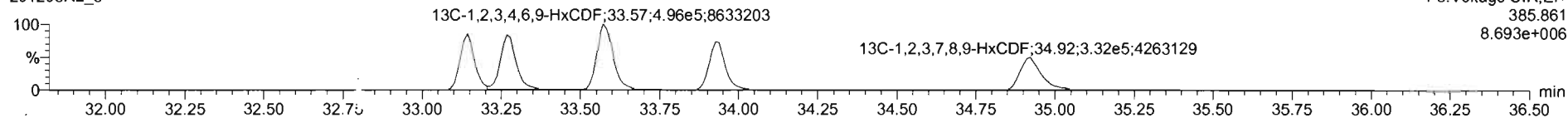


13C-1,2,3,4,7,8-HxCDF

201203R2_3

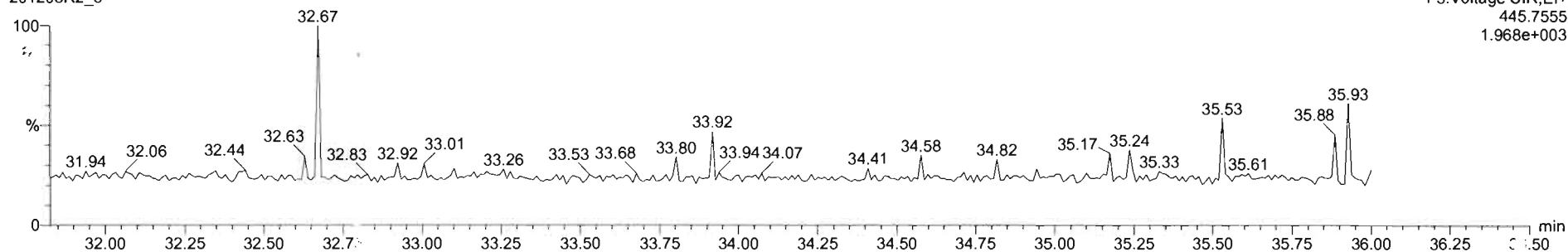


201203R2_3

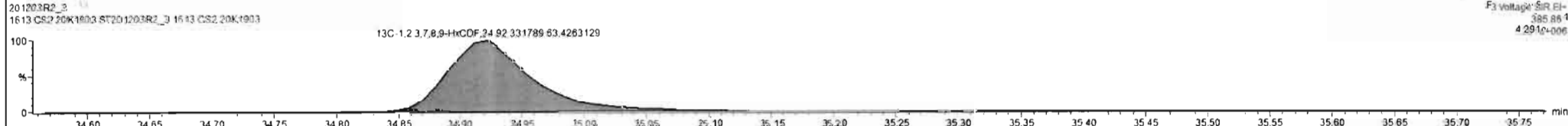


DPE3

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	8.06e5	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	1,2,3,4,7,8-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



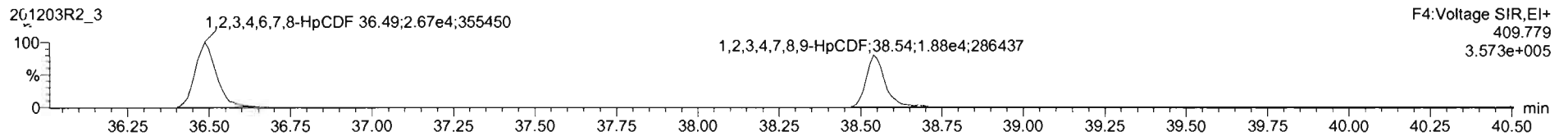
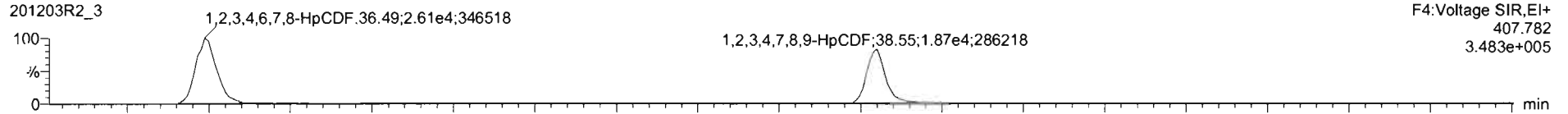
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Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

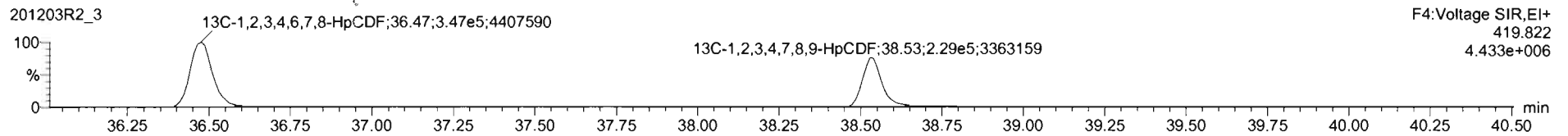
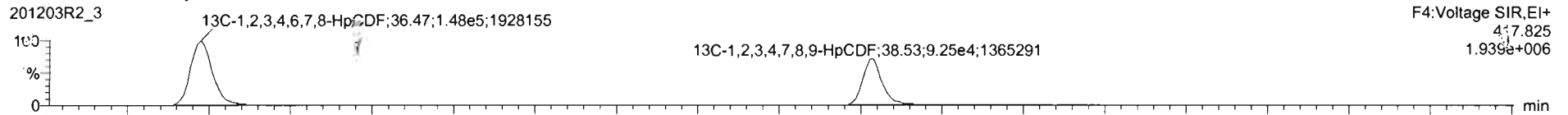
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

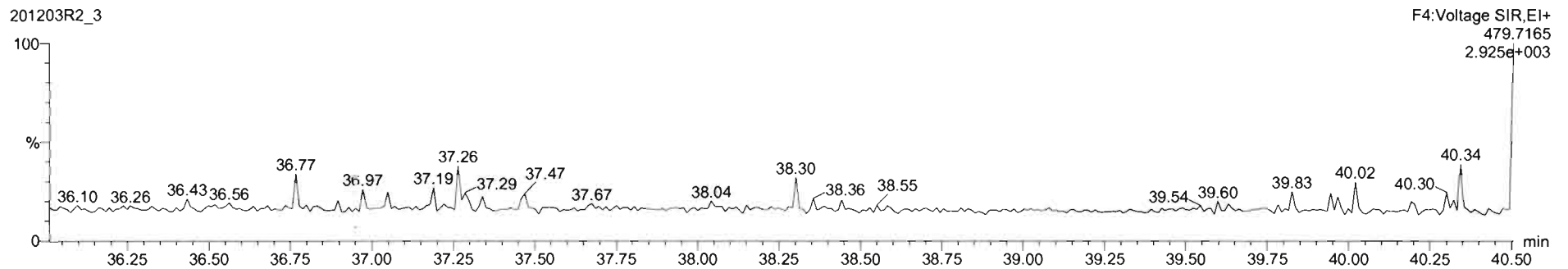
1,2,3,4,6,7,8-HpCDF



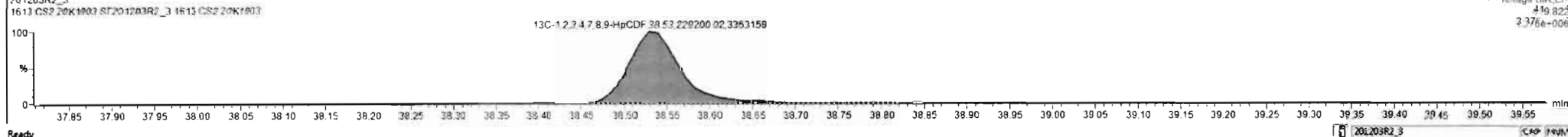
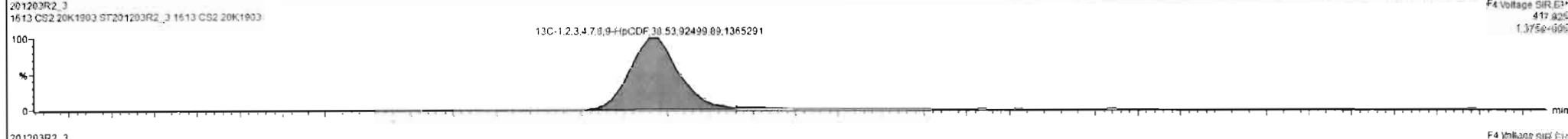
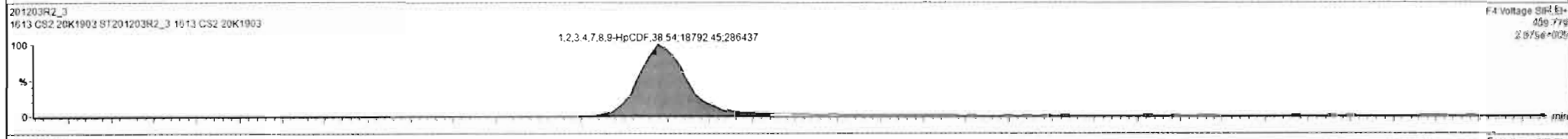
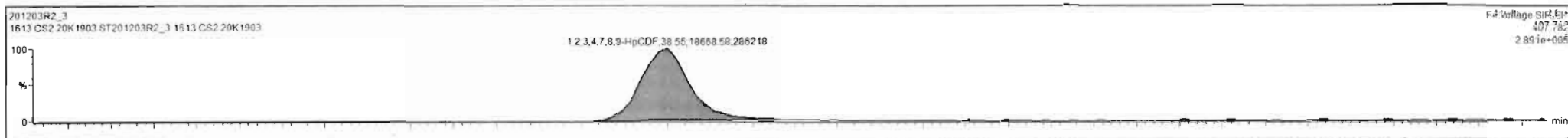
13C-1,2,3,4,6,7,8-HpCDF



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	0.5877	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



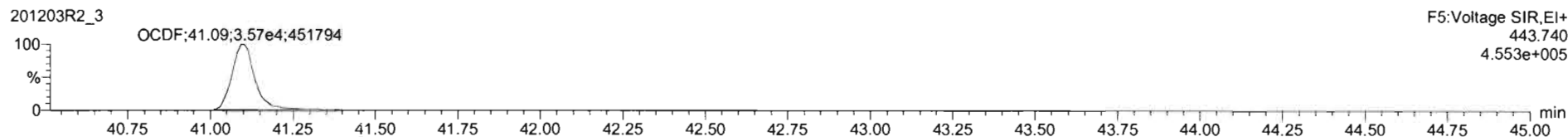
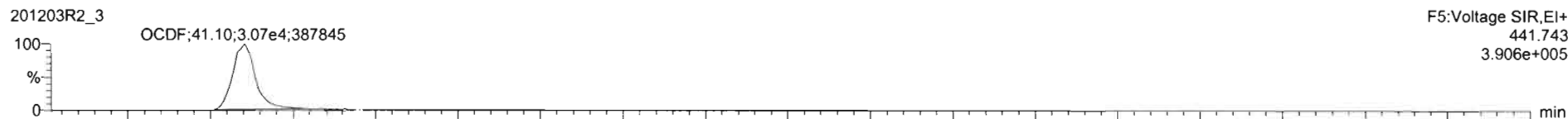
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

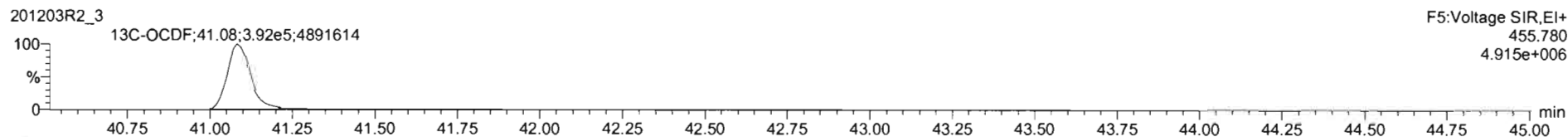
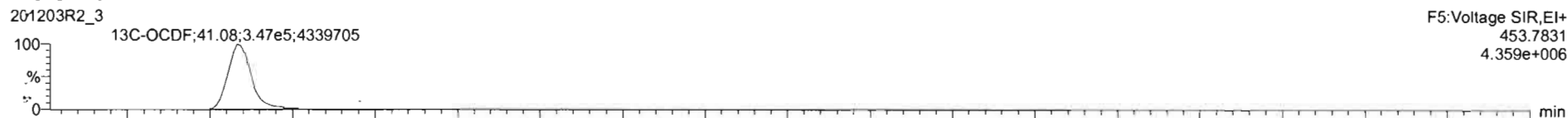
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_3, Date: 03-Dec-2020, Time: 12:14:40, ID: ST201203R2_3 1613 CS2 20K1903, Description: 1613 CS2 20K1903

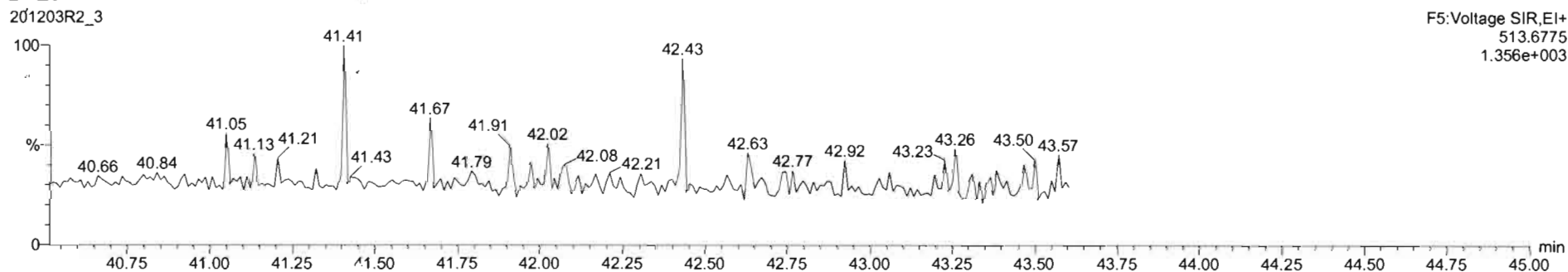
OCDF



¹³C-OCDF



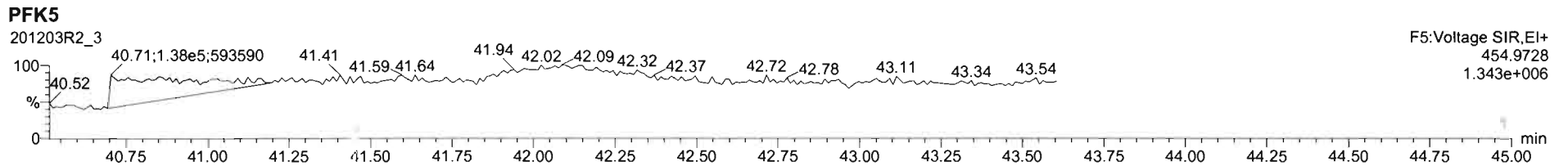
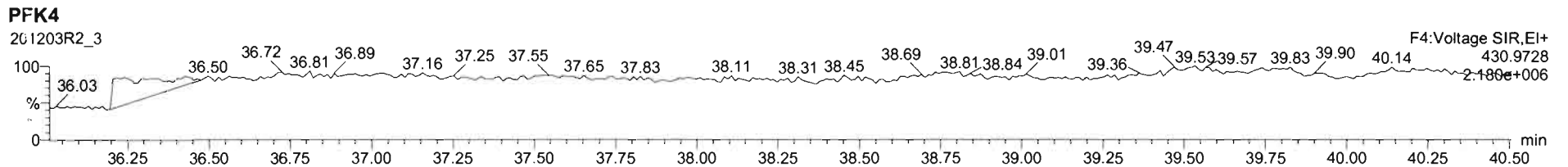
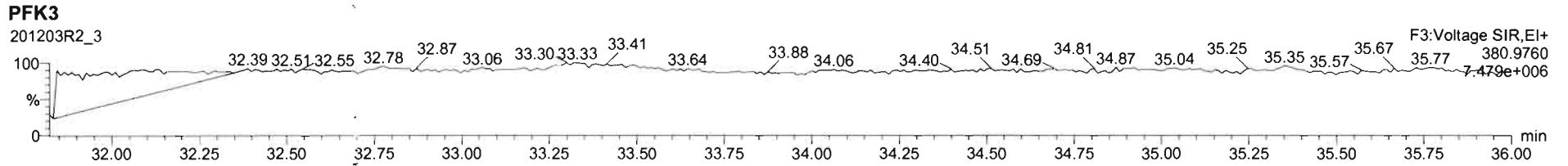
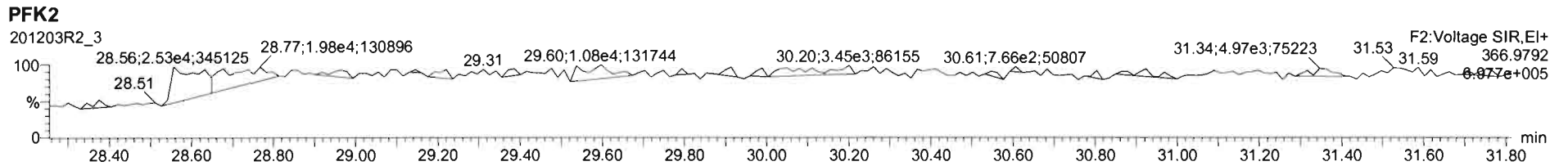
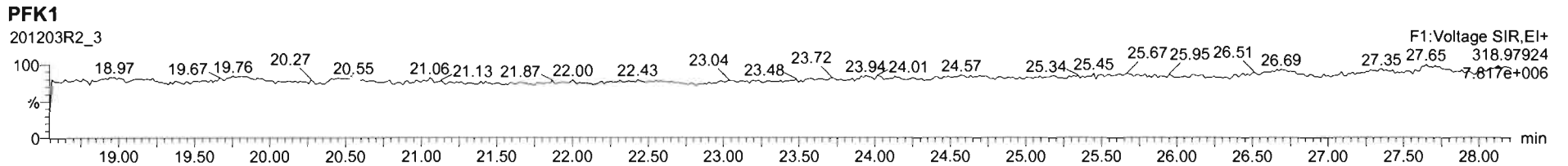
DPE5



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



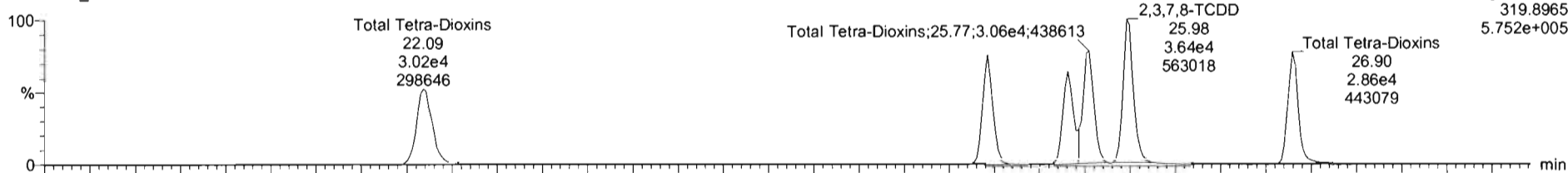
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

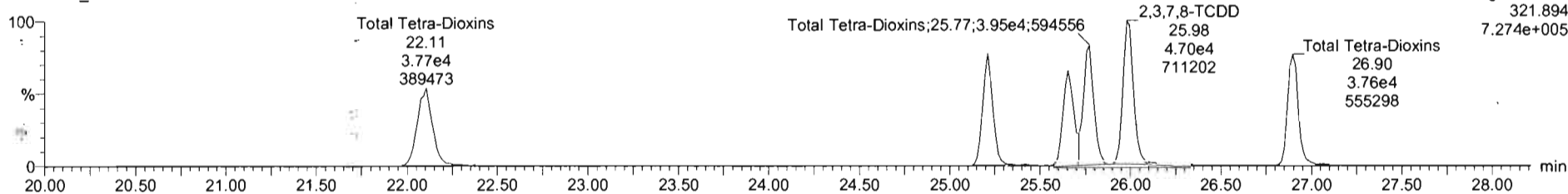
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

2,3,7,8-TCDD

201203R2_6

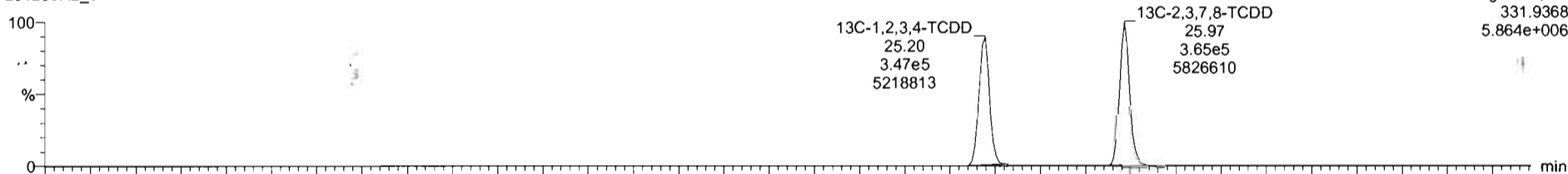


201203R2_6

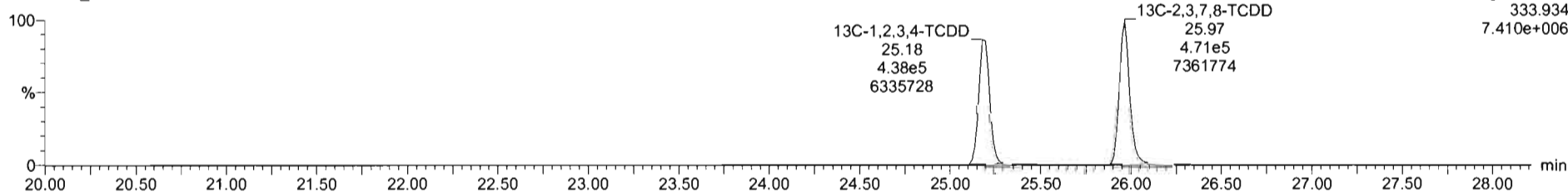


13C-2,3,7,8-TCDD

201203R2_6



201203R2_6



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

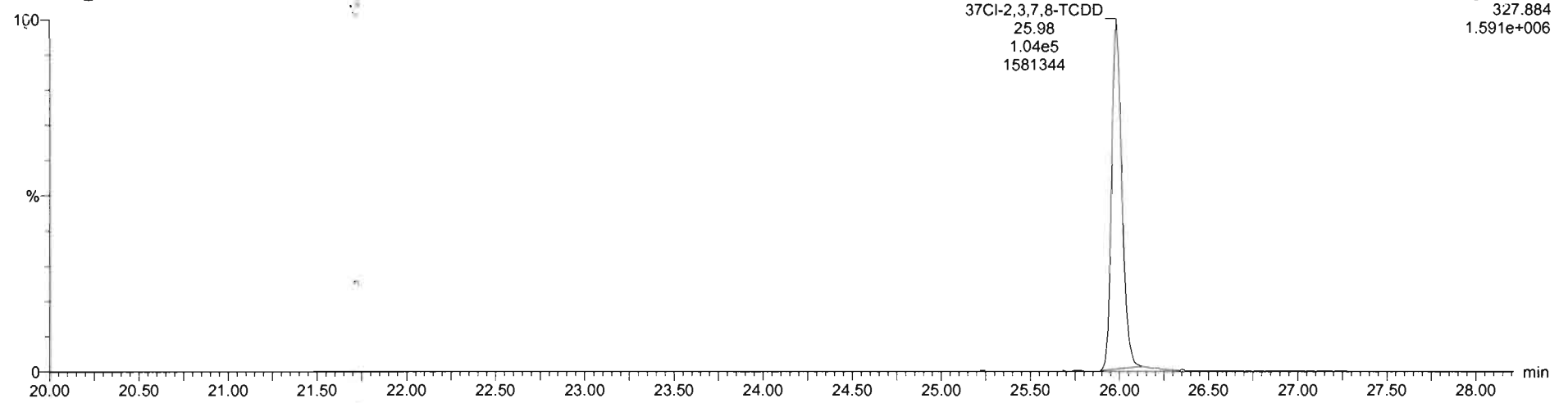
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

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

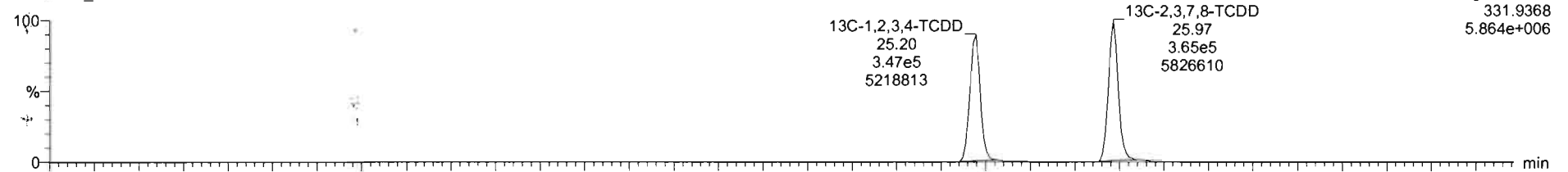
37Cl-2,3,7,8-TCDD

201203R2_6

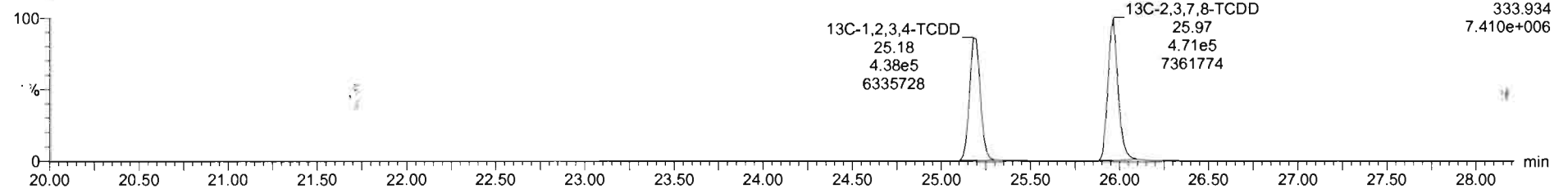


13C-1,2,3,4-TCDD

201203R2_6



201203R2_6



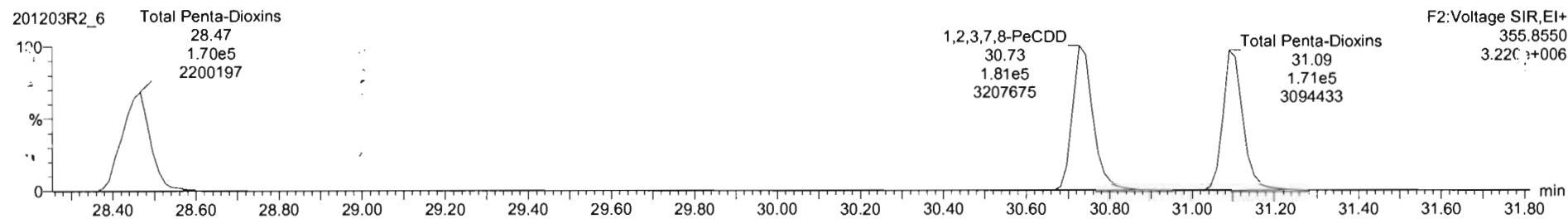
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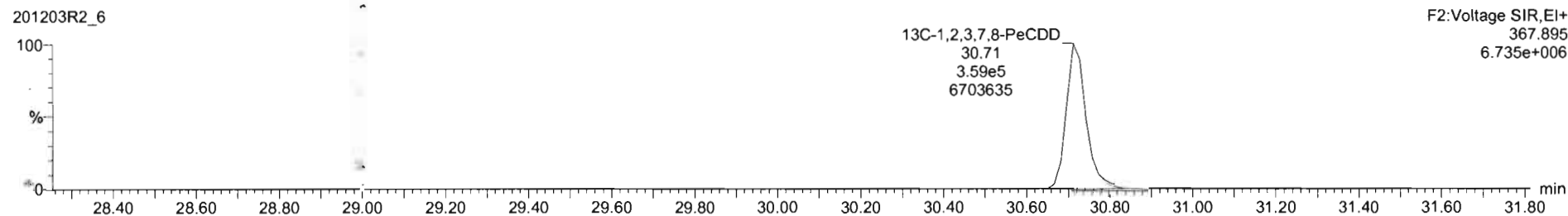
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Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1,2,3,7,8-PeCDD



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



Dataset: Untitled

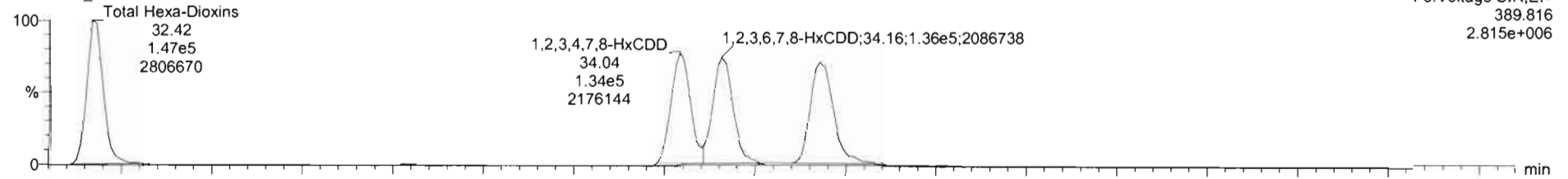
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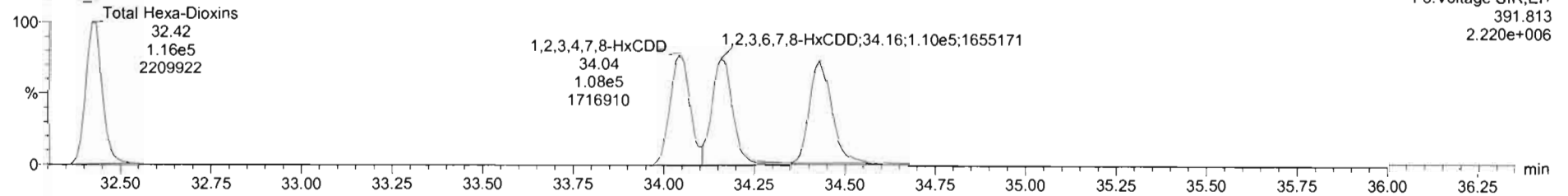
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201203R2_6

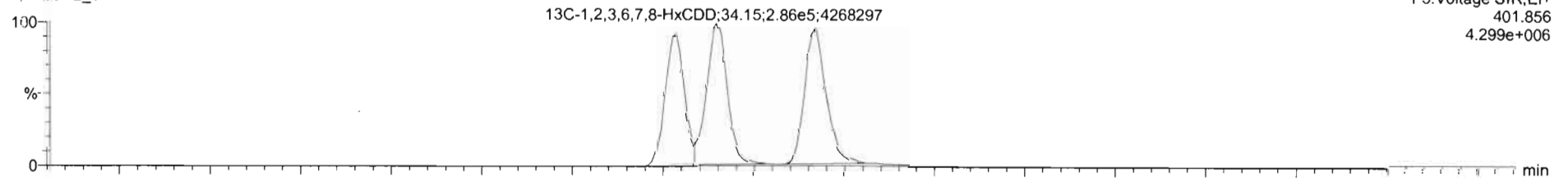


201203R2_6

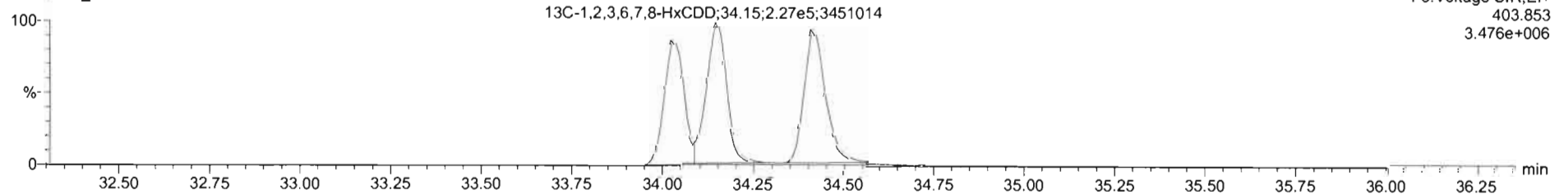


13C-1,2,3,4,7,8-HxCDD

201203R2_6

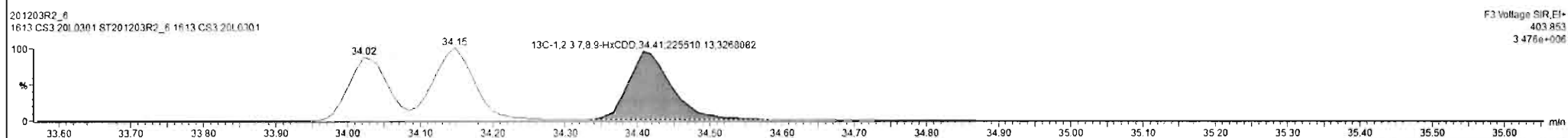
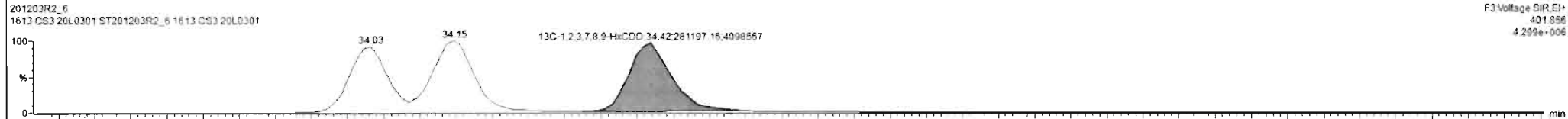


201203R2_6



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	1.0388	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



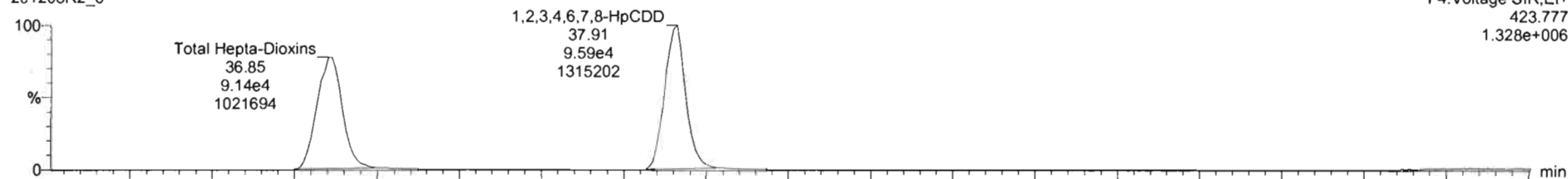
D: taset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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

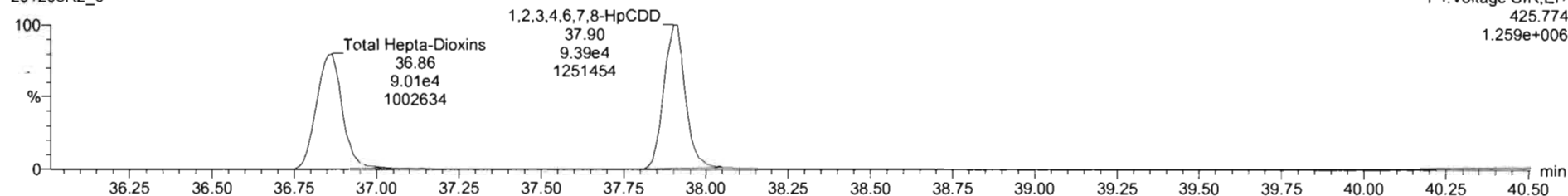
1,2,3,4,6,7,8-HpCDD

201203R2_6



F4:Voltage SIR,EI+
423.777
1.328e+006

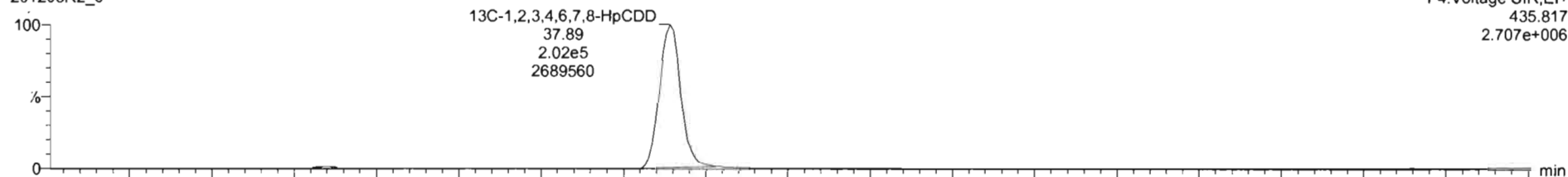
201203R2_6



F4:Voltage SIR,EI+
425.774
1.259e+006

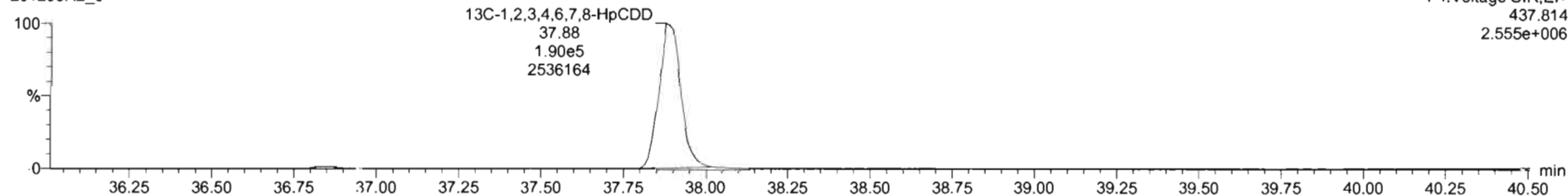
13C-1,2,3,4,6,7,8-HpCDD

201203R2_6



F4:Voltage SIR,EI+
435.817
2.707e+006

201203R2_6



F4:Voltage SIR,EI+
437.814
2.555e+006

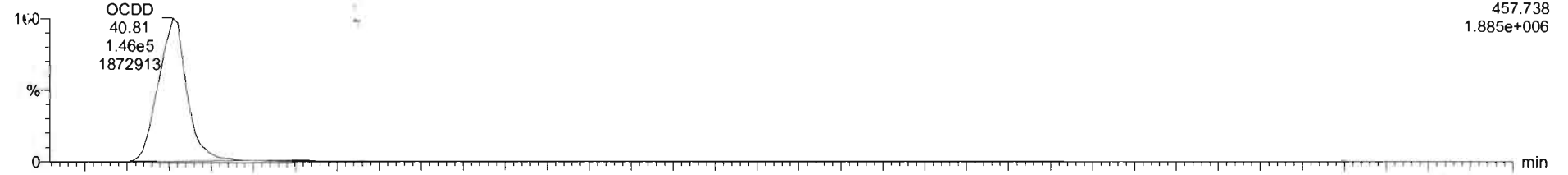
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

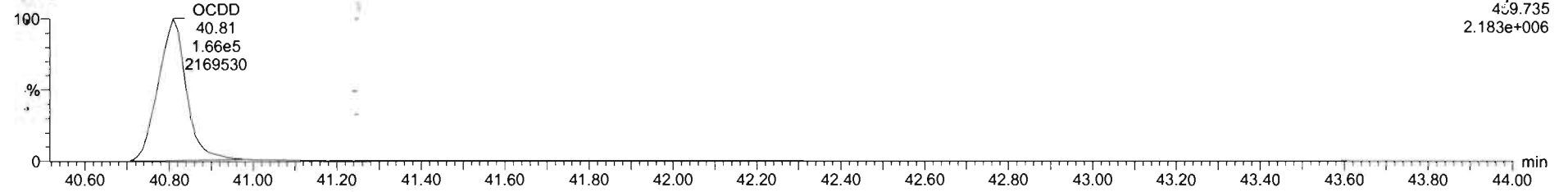
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OCDD

201203R2_6

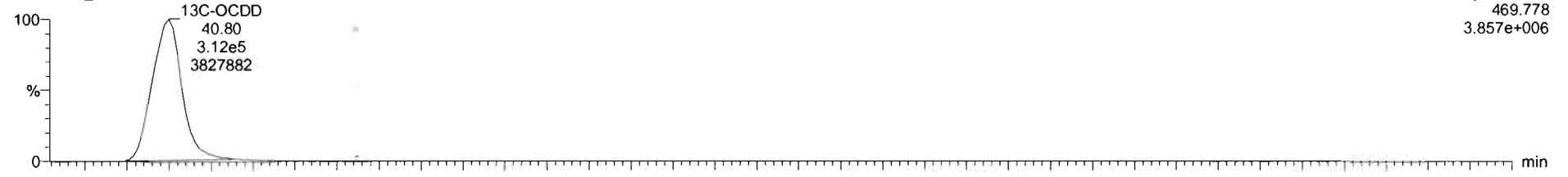


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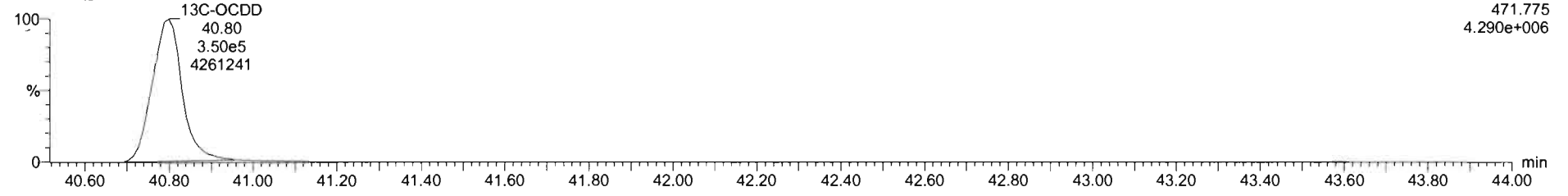


13C-OCDD

201203R2_6



201203R2_6



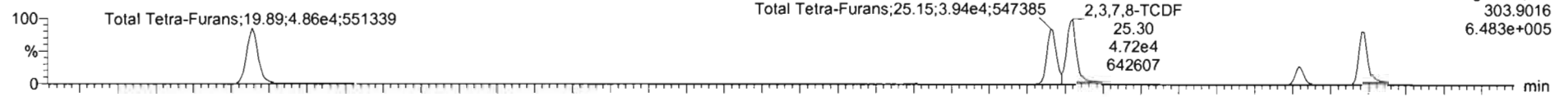
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

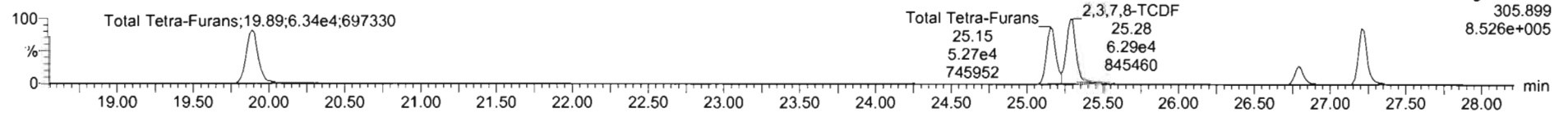
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2,3,7,8-TCDF

201203R2_6

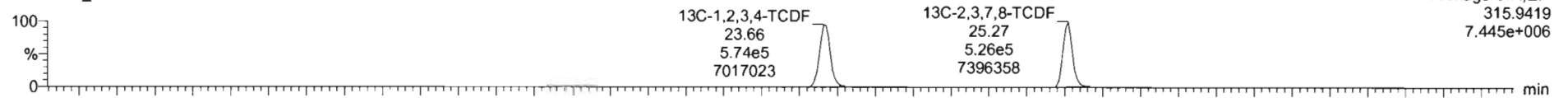


201203R2_6

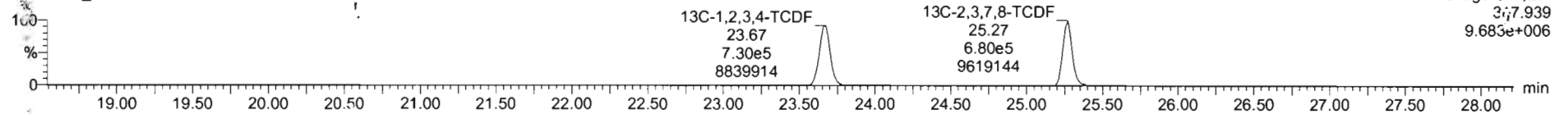


13C-2,3,7,8-TCDF

201203R2_6

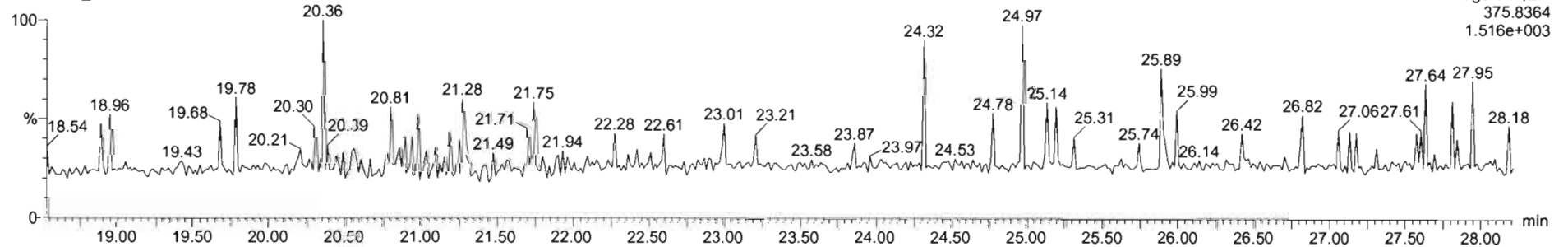


201203R2_6



DPE1

201203R2_6



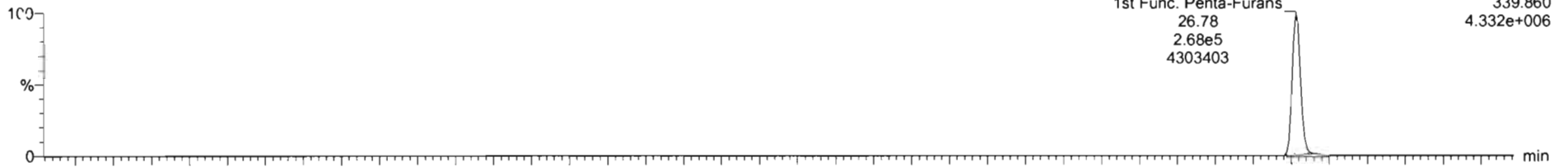
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

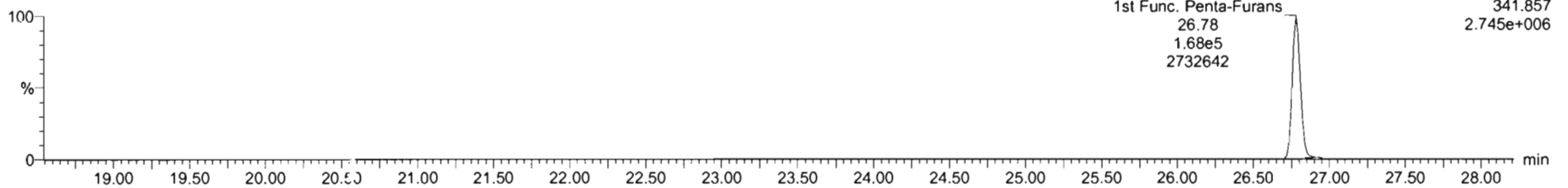
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

1st Func. Penta-Furans

201203R2_6

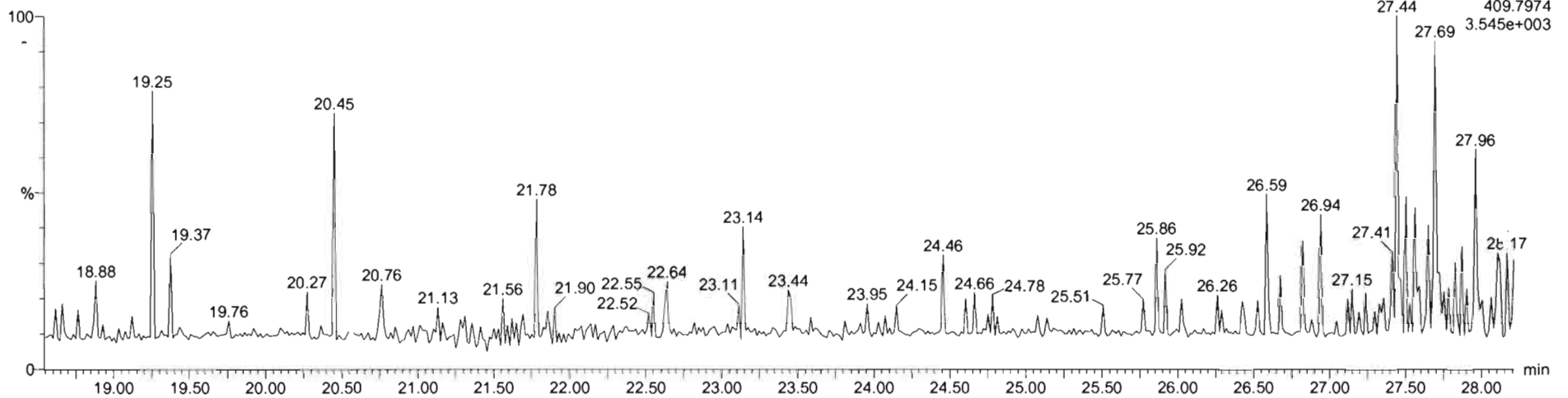


201203R2_6



DPE6

201203R2_6

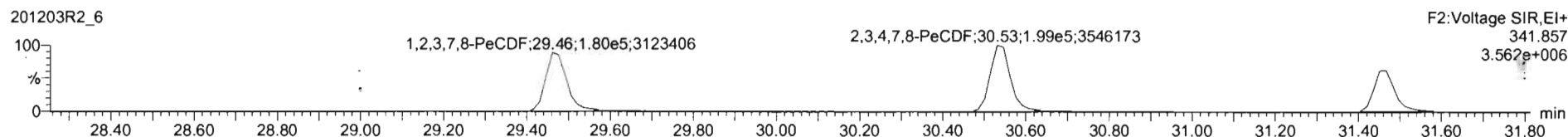


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

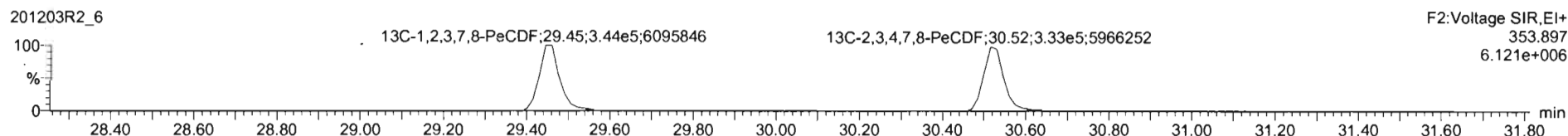
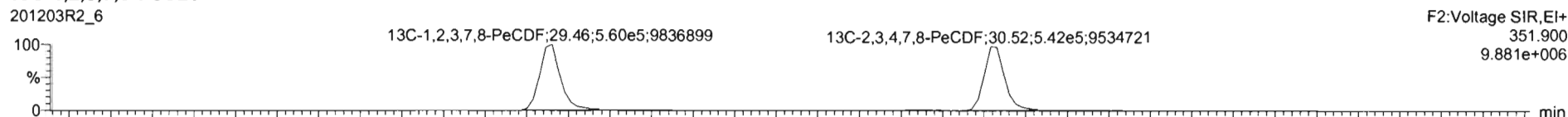
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

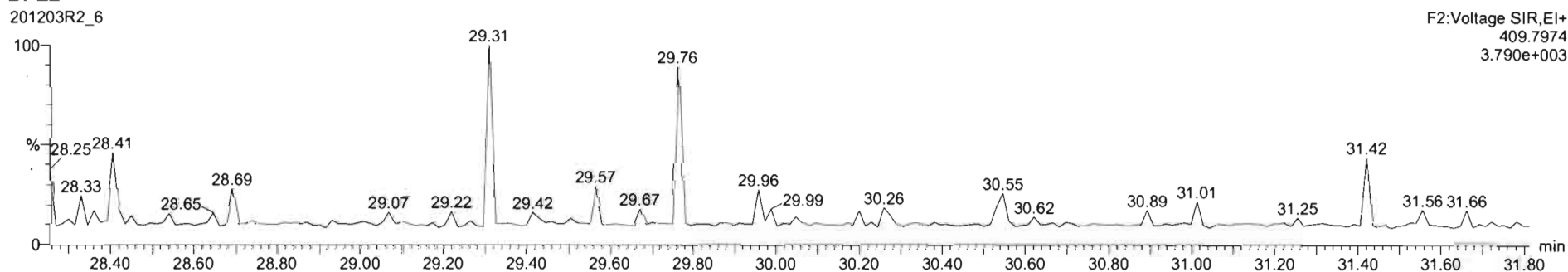
1,2,3,7,8-PeCDF



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



DPE2



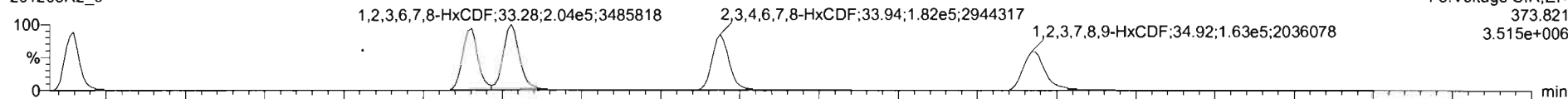
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

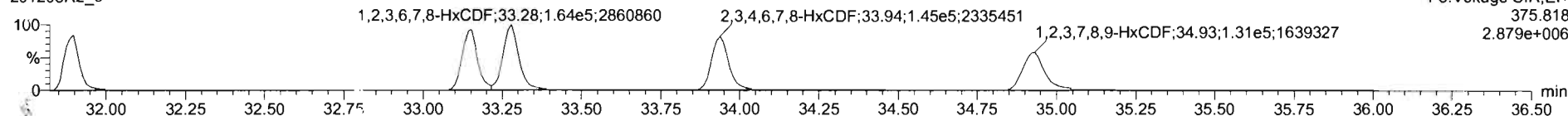
Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

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

201203R2_6

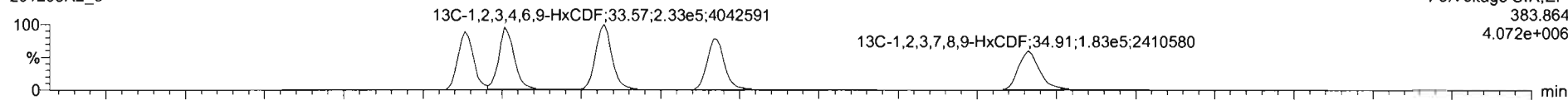


201203R2_6

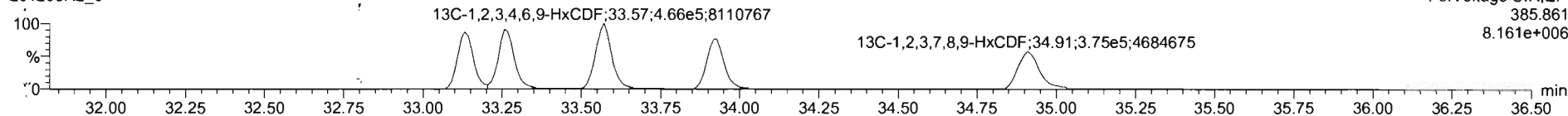


13C-1,2,3,4,7,8-HxCDF

201203R2_6

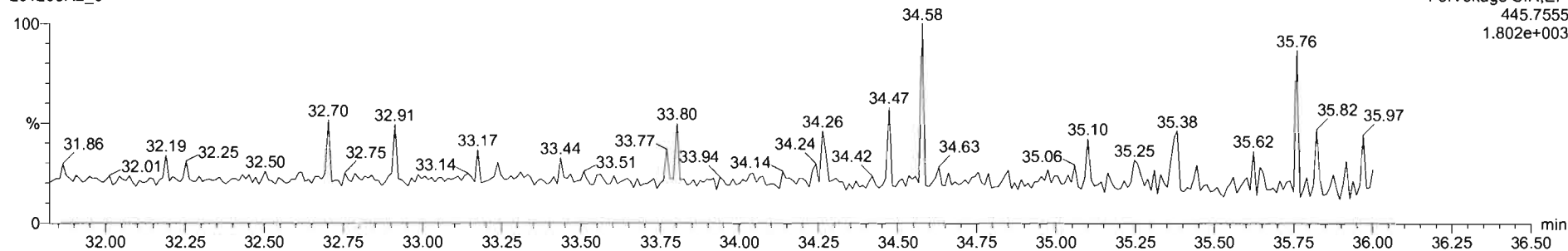


201203R2_6



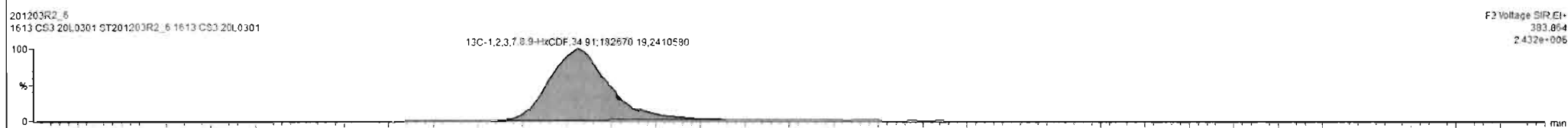
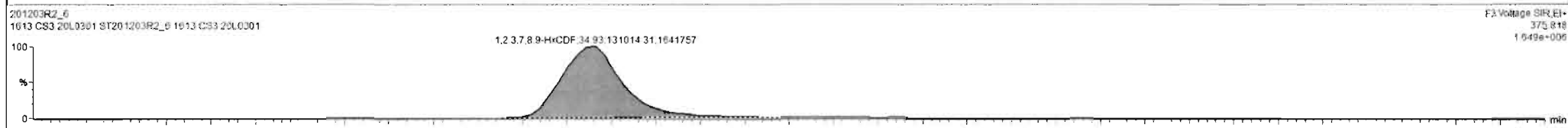
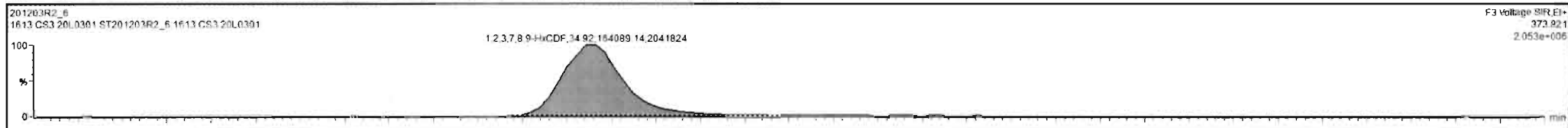
DPE3

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

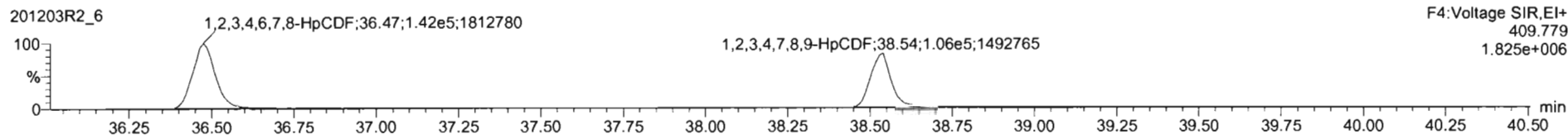
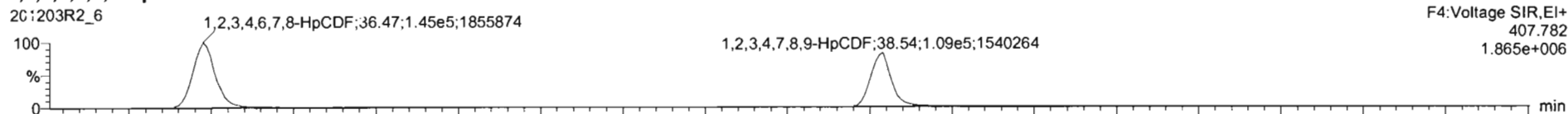


Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

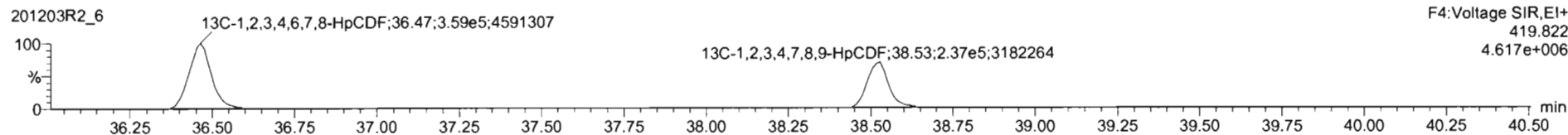
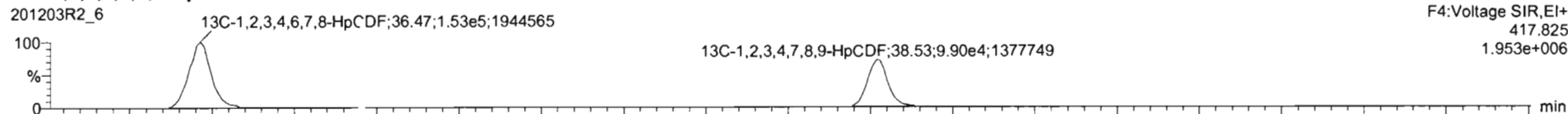
Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_6, Date: 03-Dec-2020, Time: 14:35:05, ID: ST201203R2_6 1613 CS3 20L0301, Description: 1613 CS3 20L0301

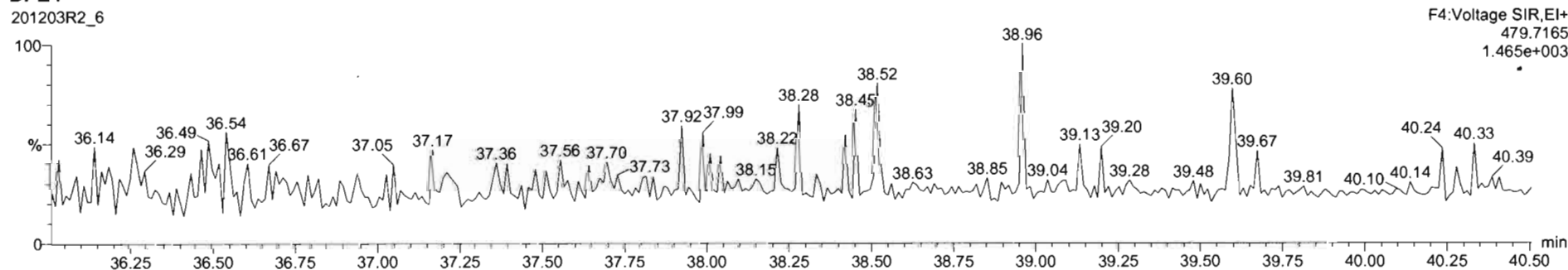
1,2,3,4,6,7,8-HpCDF



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



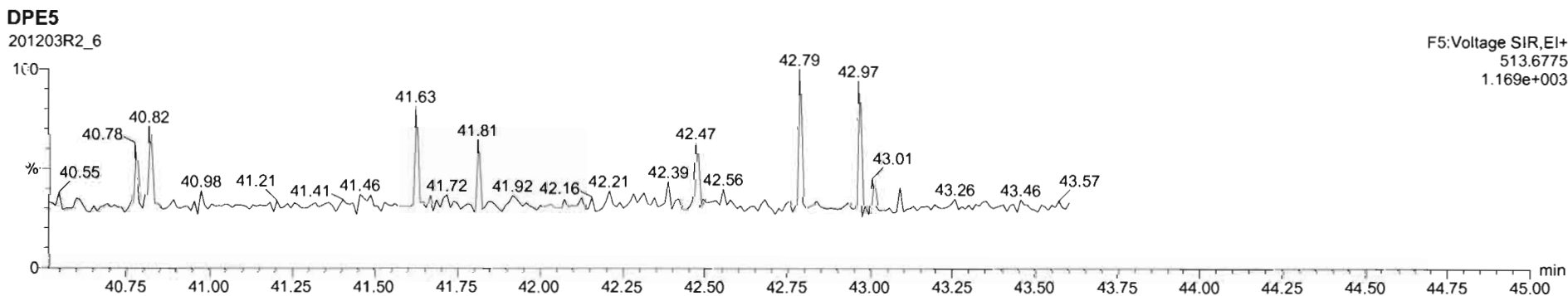
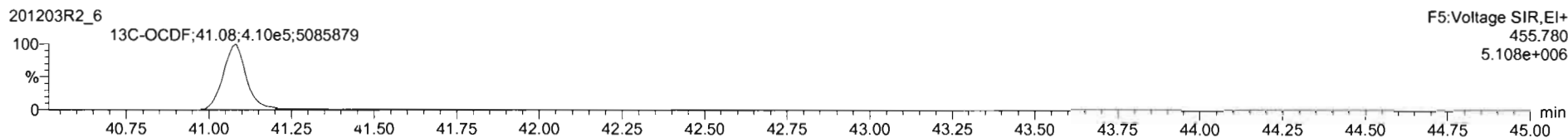
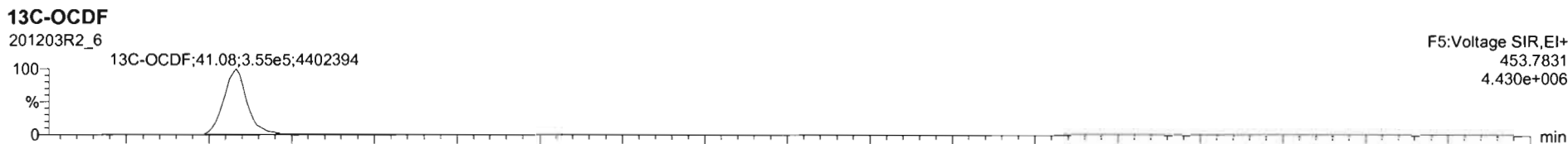
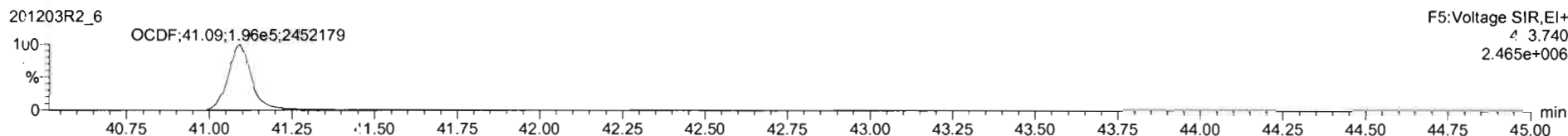
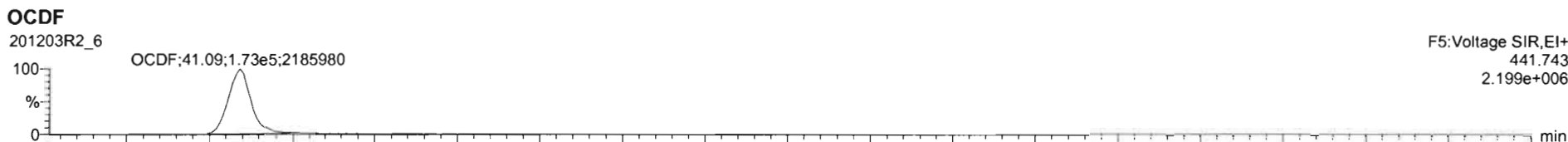
DPE4



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

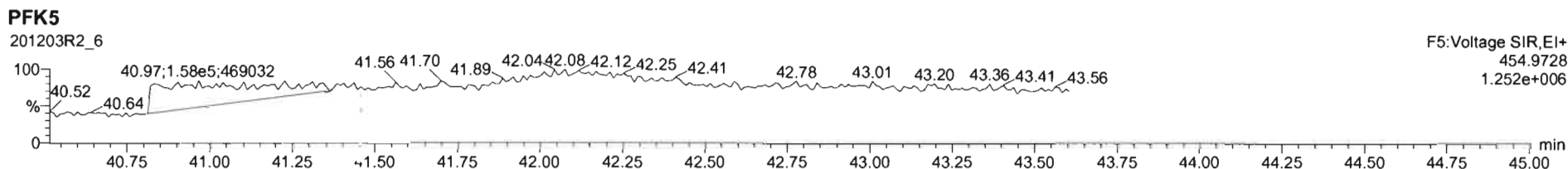
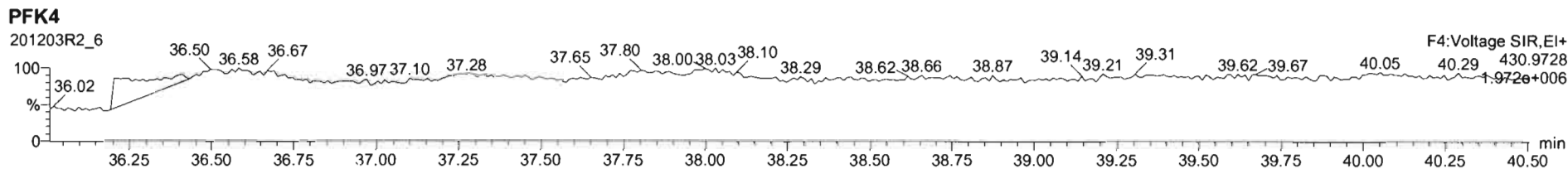
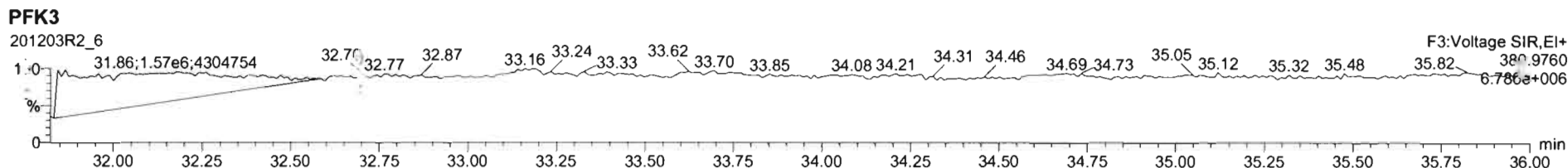
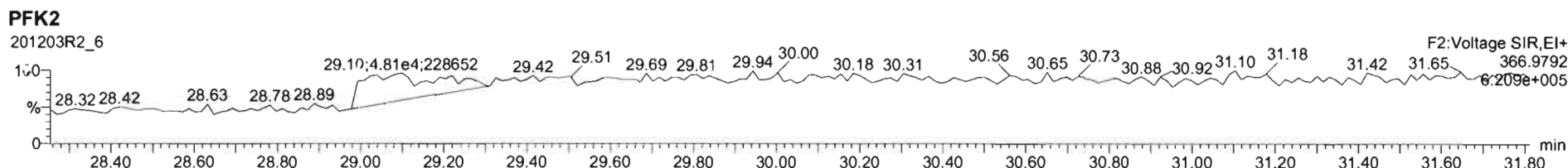
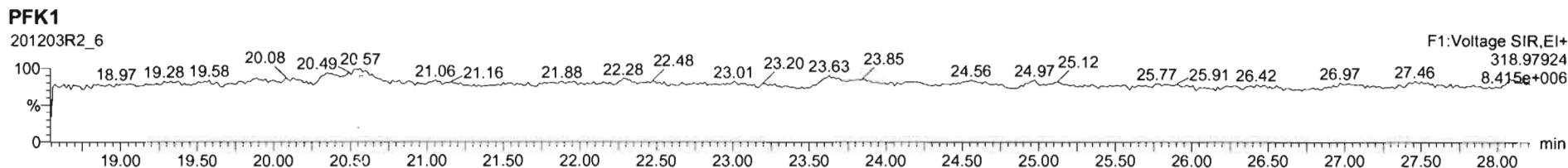
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Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_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

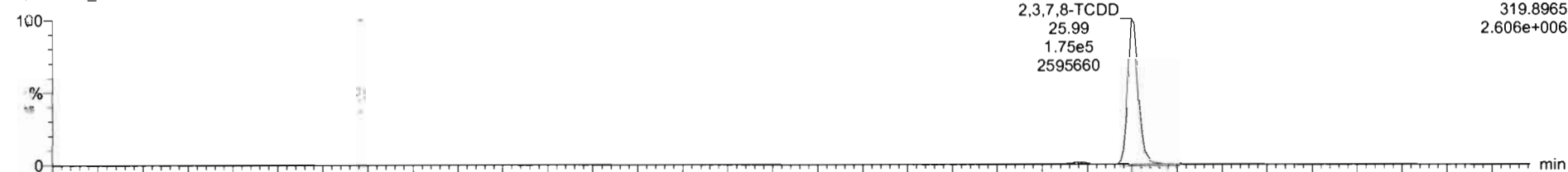
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

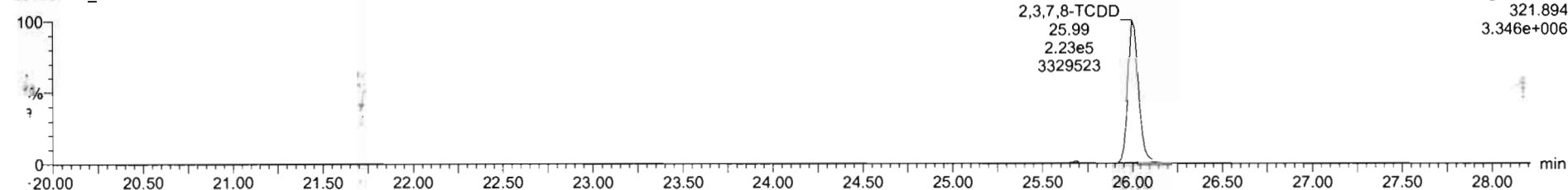
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2,3,7,8-TCDD

201203R2_4

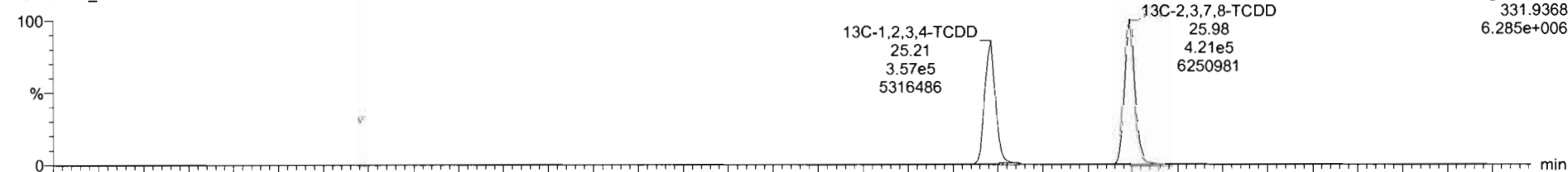


201203R2_4

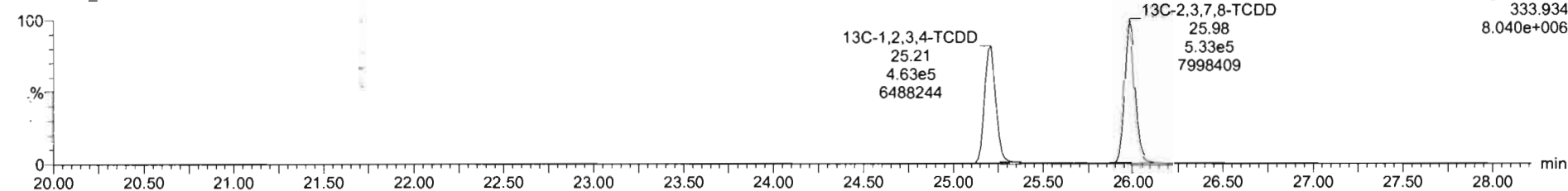


13C-2,3,7,8-TCDD

201203R2_4



201203R2_4



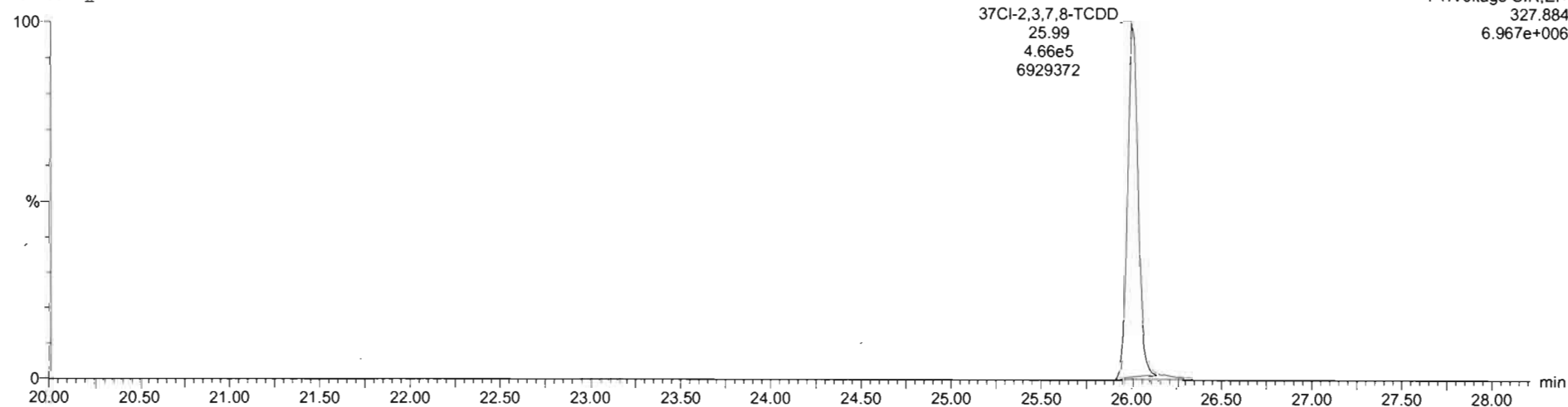
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
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Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

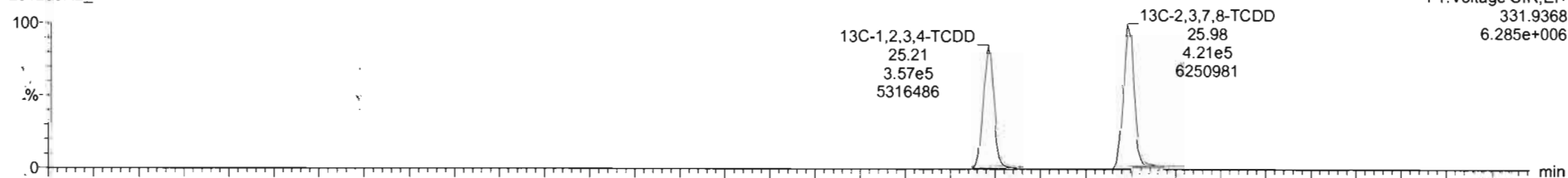
37Cl-2,3,7,8-TCDD

201203R2_4

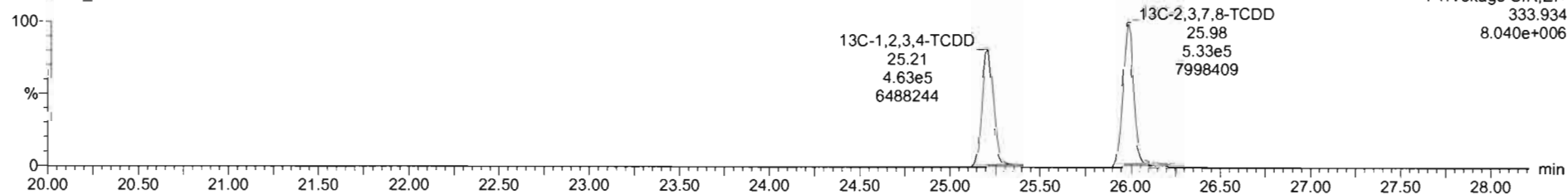


13C-1,2,3,4-TCDD

201203R2_4



201203R2_4



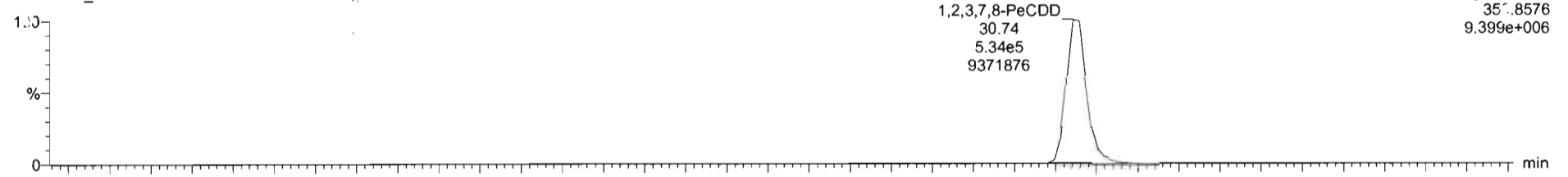
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

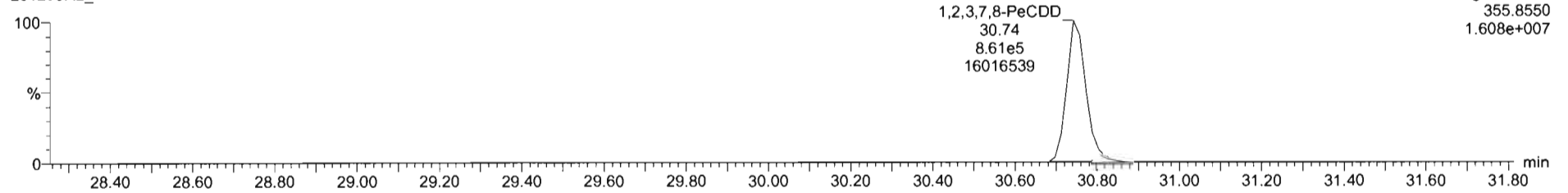
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1,2,3,7,8-PeCDD

201203R2_4

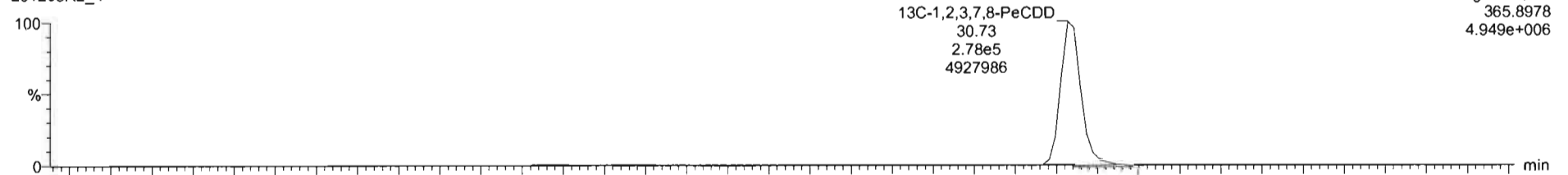


201203R2_4

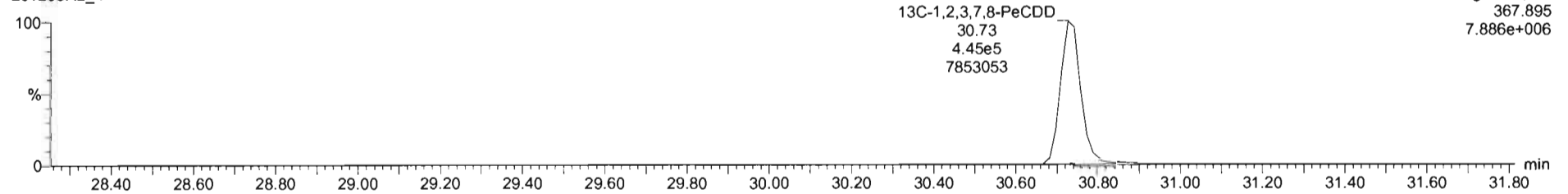


13C-1,2,3,7,8-PeCDD

201203R2_4



201203R2_4



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

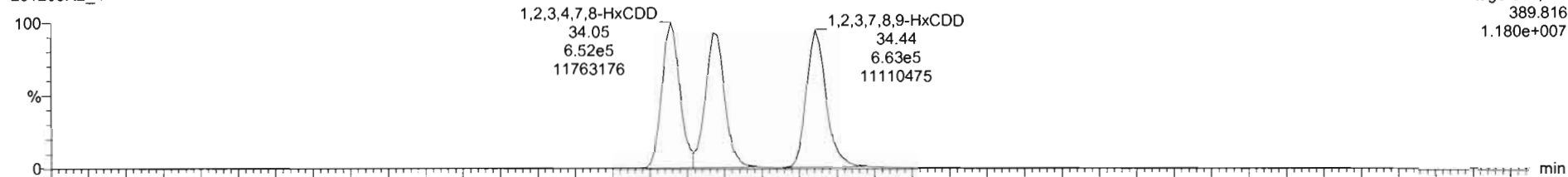
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

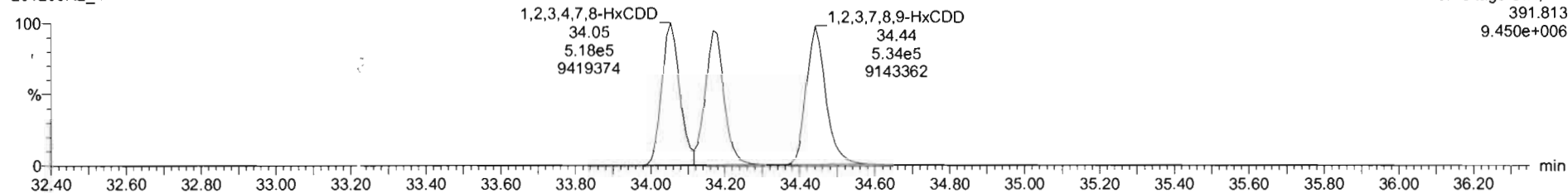
1,2,3,4,7,8-HxCDD

201203R2_4



F3:Voltage SIR,EI+
389.816
1.180e+007

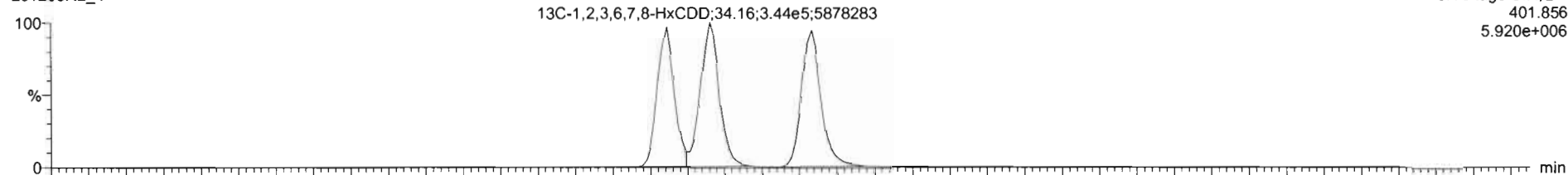
201203R2_4



F3:Voltage SIR,EI+
391.813
9.450e+006

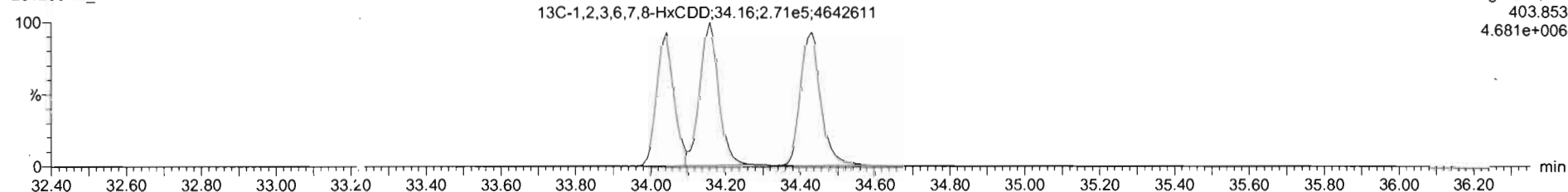
13C-1,2,3,4,7,8-HxCDD

201203R2_4



F3:Voltage SIR,EI+
401.856
5.920e+006

201203R2_4



F3:Voltage SIR,EI+
403.853
4.681e+006

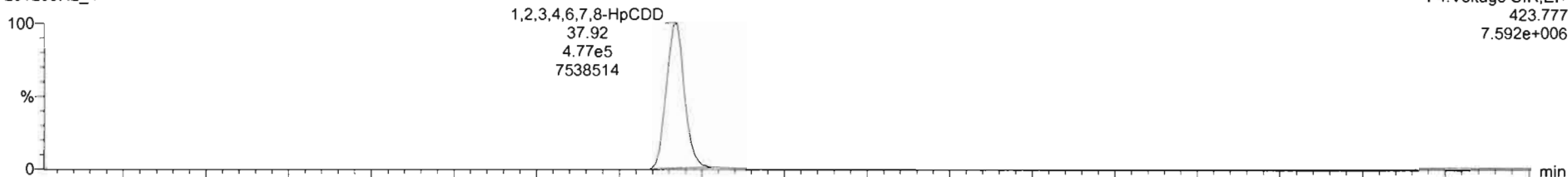
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

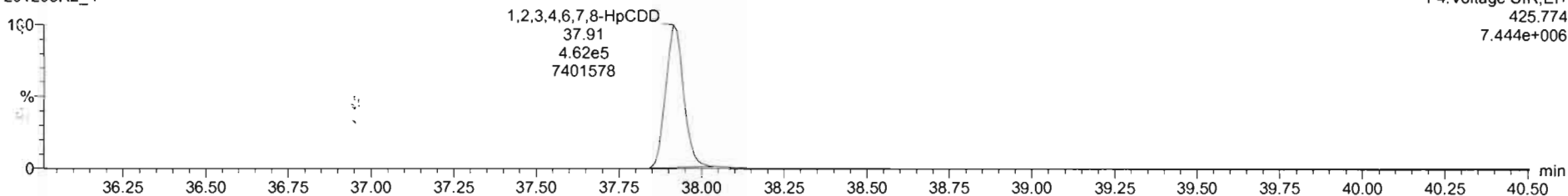
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1,2,3,4,6,7,8-HpCDD

201203R2_4

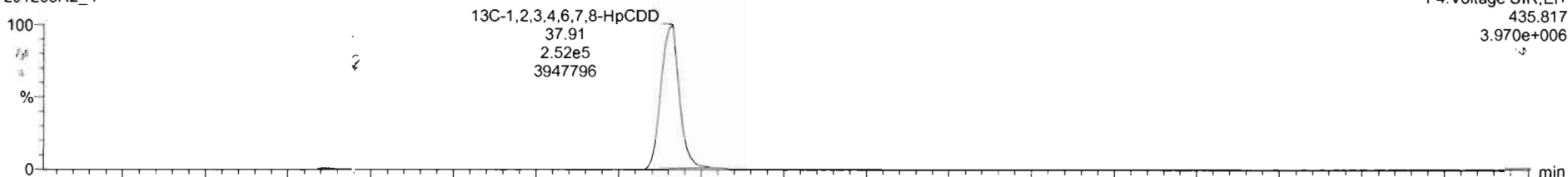


201203R2_4

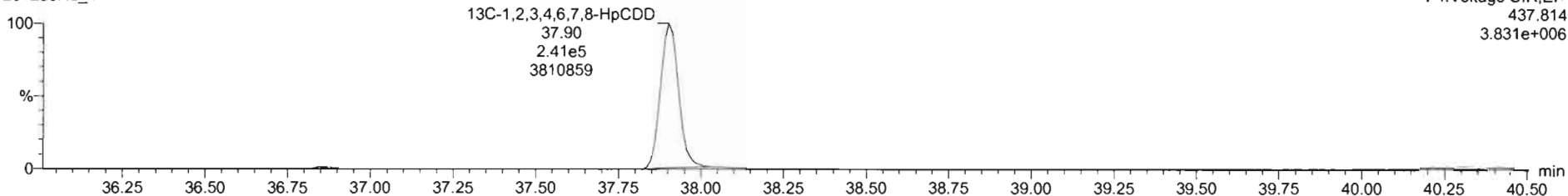


13C-1,2,3,4,6,7,8-HpCDD

201203R2_4



201203R2_4



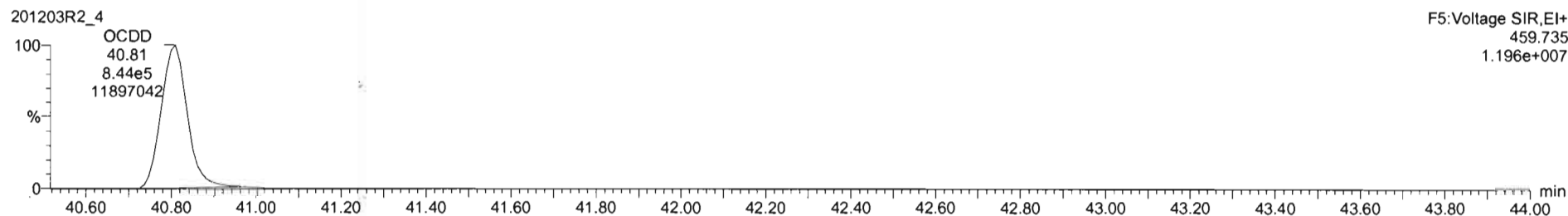
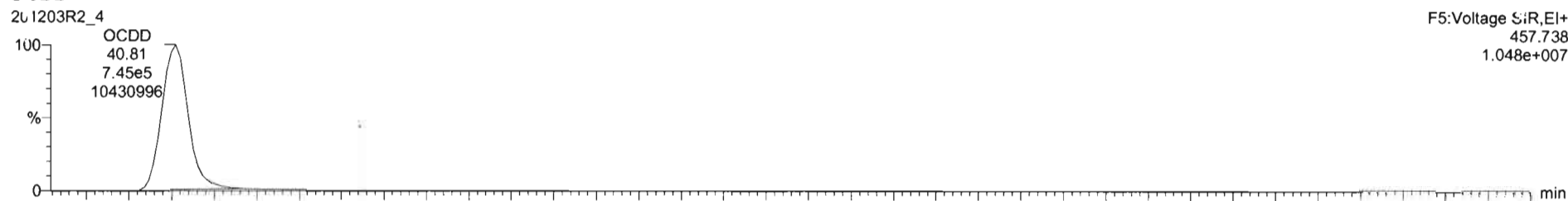
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

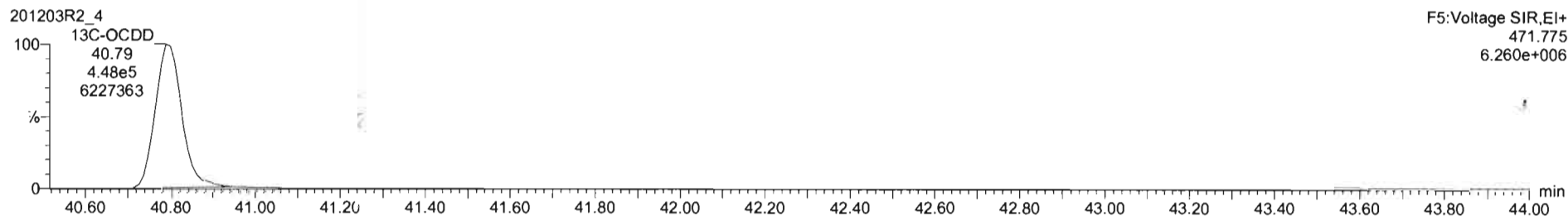
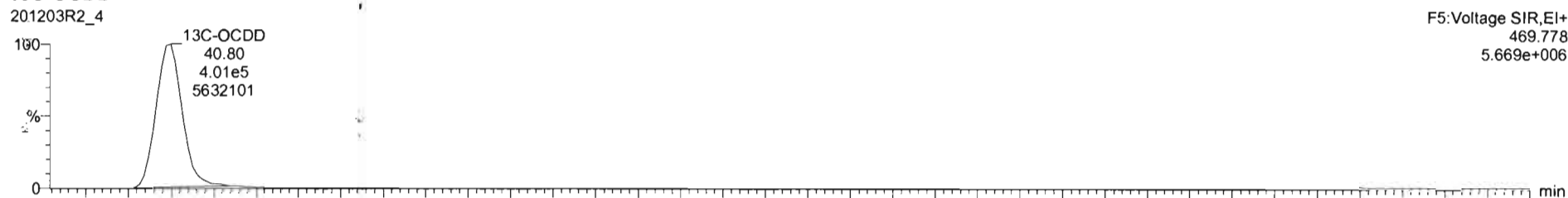
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

OCDD



13C-OCDD



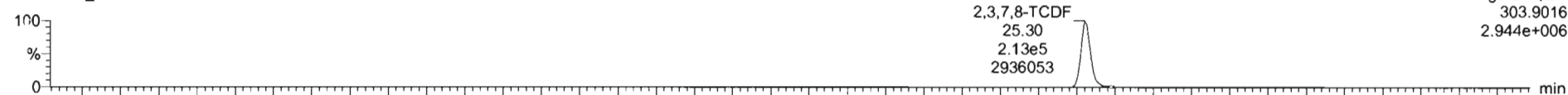
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

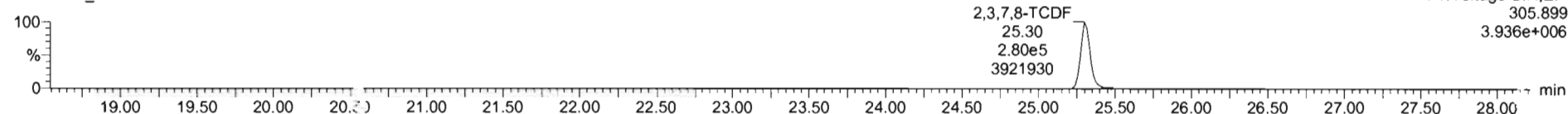
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2,3,7,8-TCDF

201203R2_4

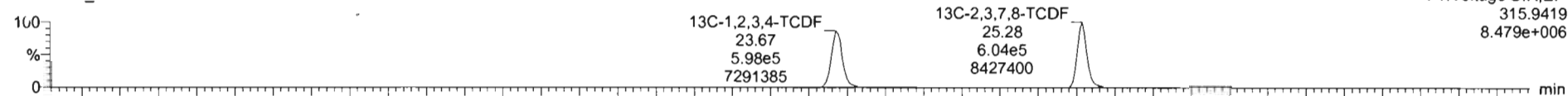


201203R2_4

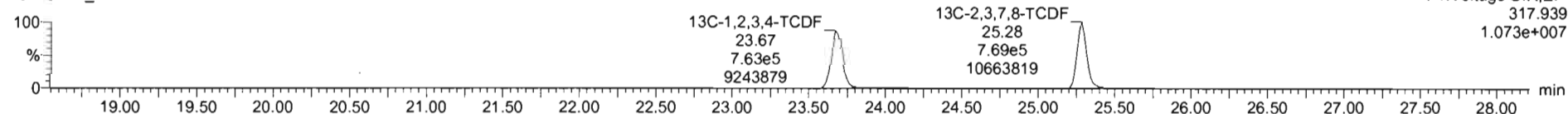


13C-2,3,7,8-TCDF

201203R2_4

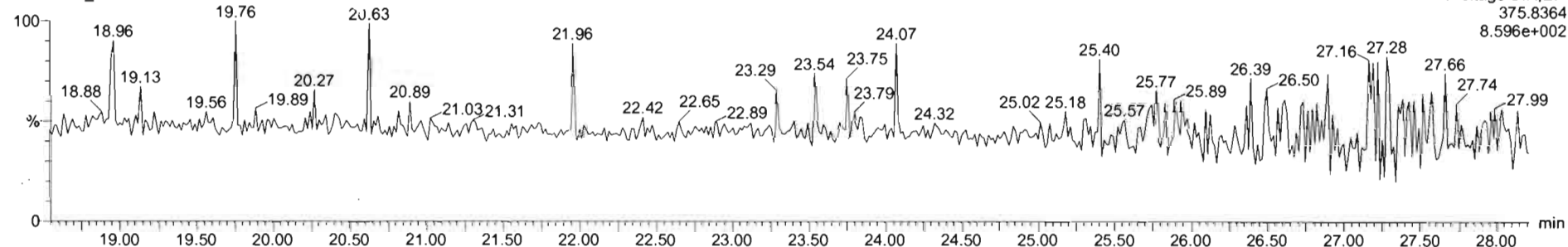


201203R2_4



DPE1

201203R2_4

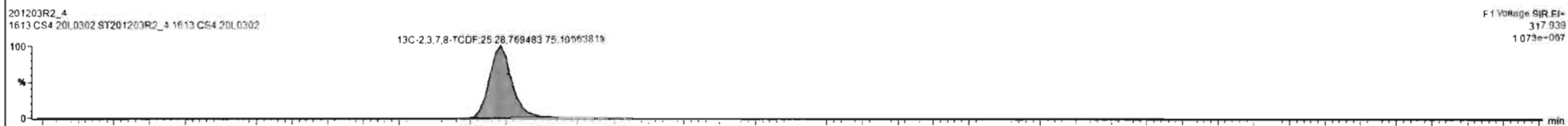
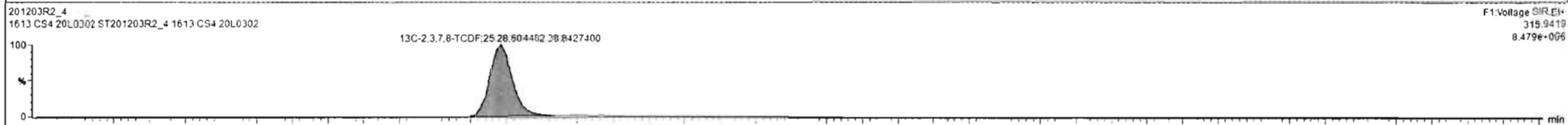
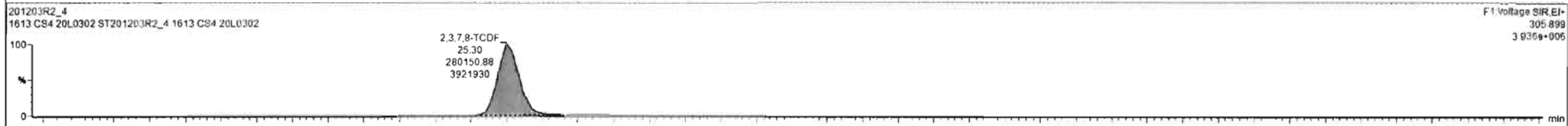
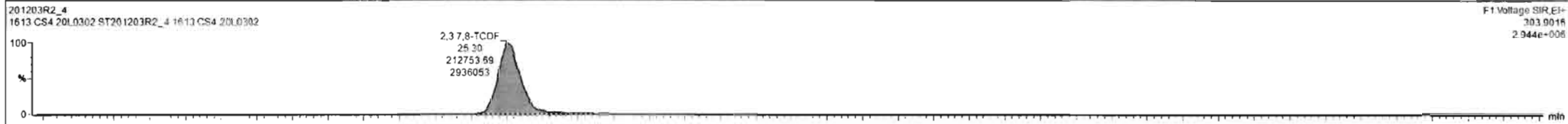


TargetLynx - 201203R2_CRV.qld - [Chromatogram]

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

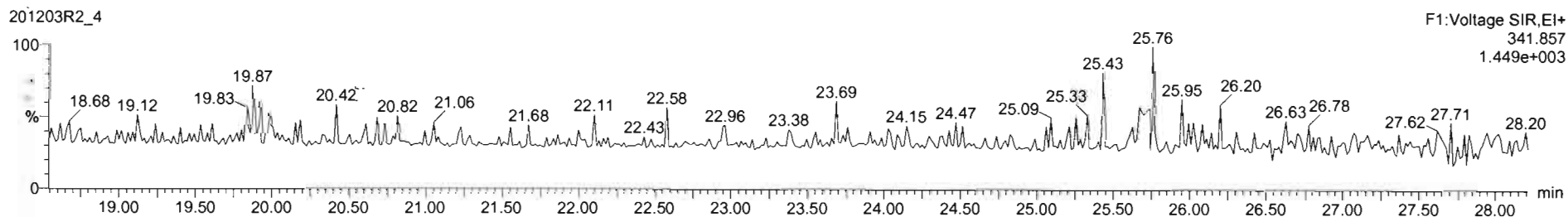
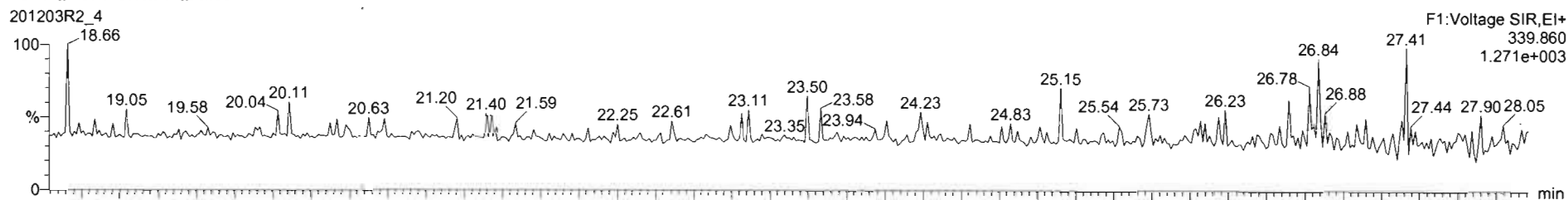
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time

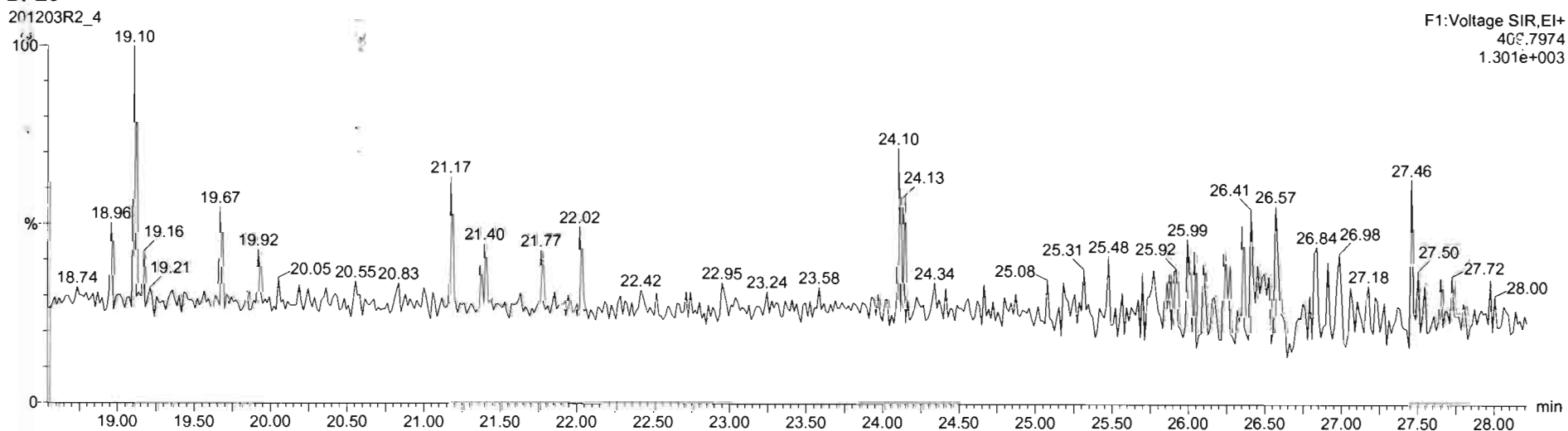
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

1st Func. Penta-Furans



DPE6



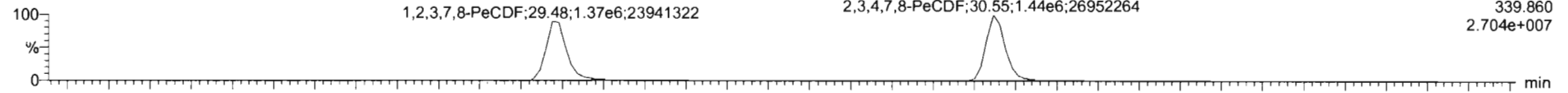
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

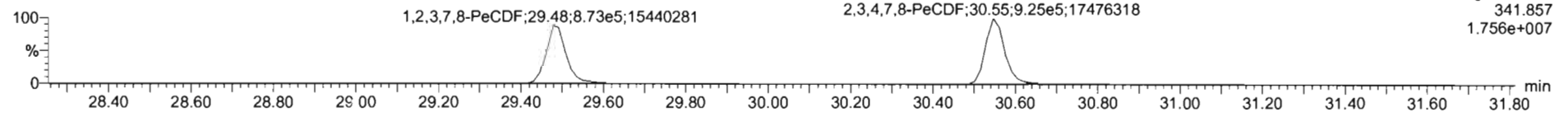
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1,2,3,7,8-PeCDF

201203R2_4

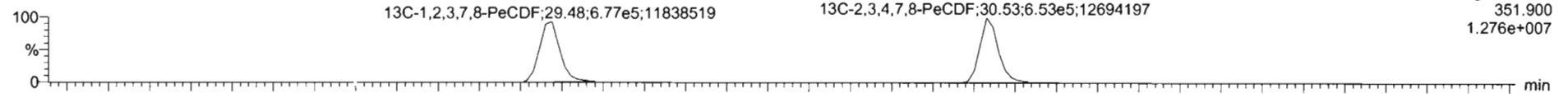


201203R2_4

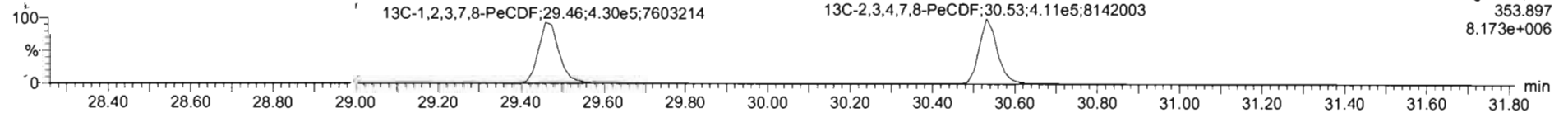


13C-1,2,3,7,8-PeCDF

201203R2_4

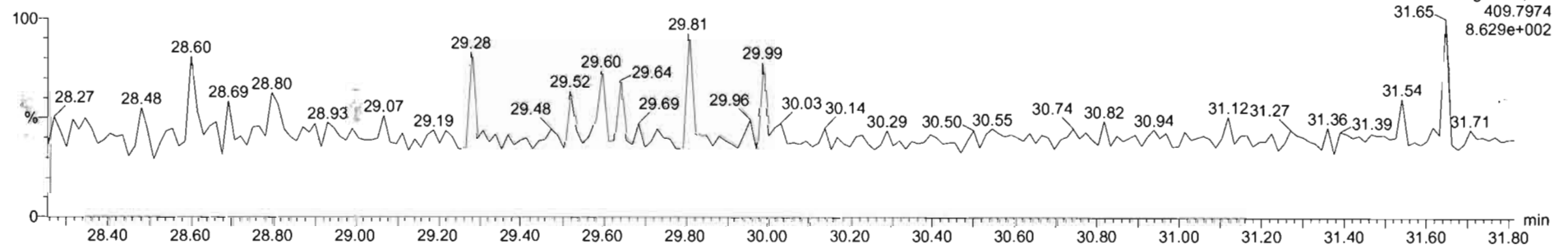


201203R2_4



DPE2

201203R2_4



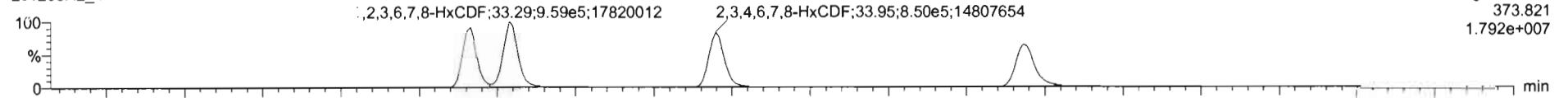
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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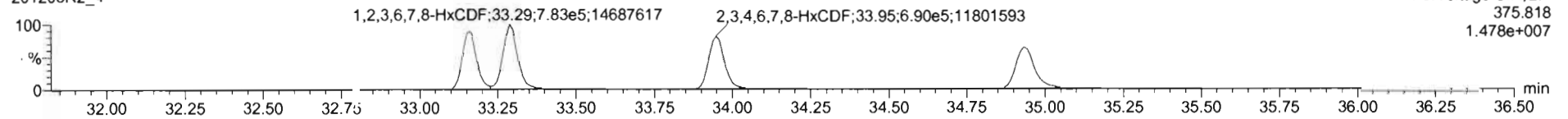
1,2,3,4,7,8-HxCDF

201203R2_4



F3:Voltage SIR,EI+
373.821
1.792e+007

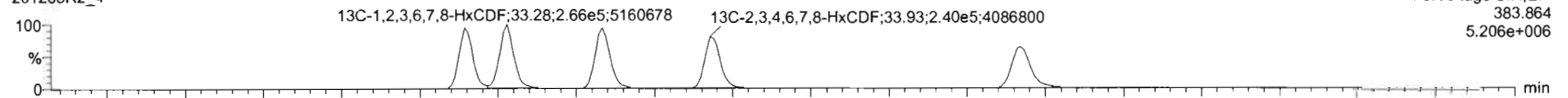
201203R2_4



F3:Voltage SIR,EI+
375.818
1.478e+007

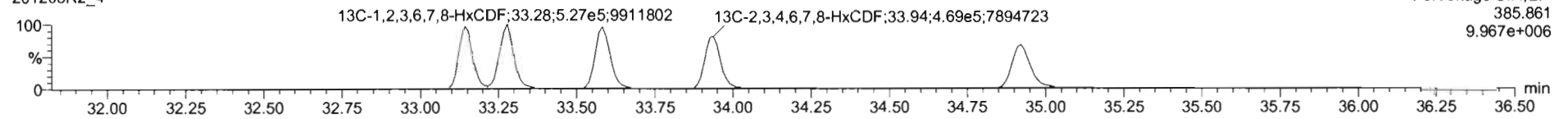
13C-1,2,3,4,7,8-HxCDF

201203R2_4



F3:Voltage SIR,EI+
383.864
5.206e+006

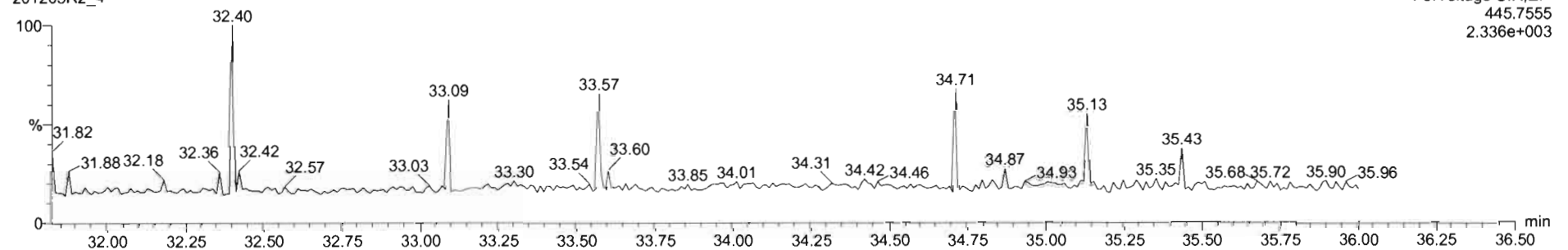
201203R2_4



F3:Voltage SIR,EI+
385.861
9.967e+006

DPE3

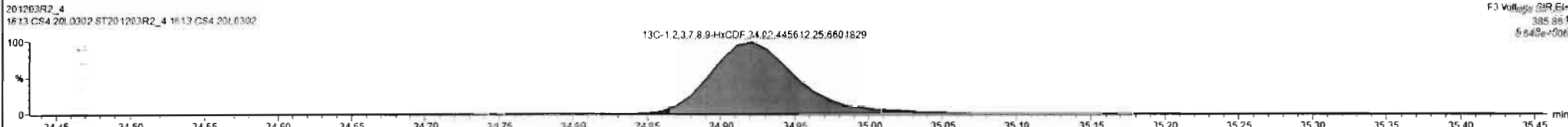
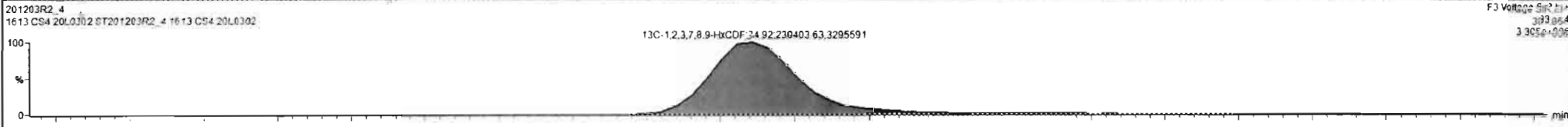
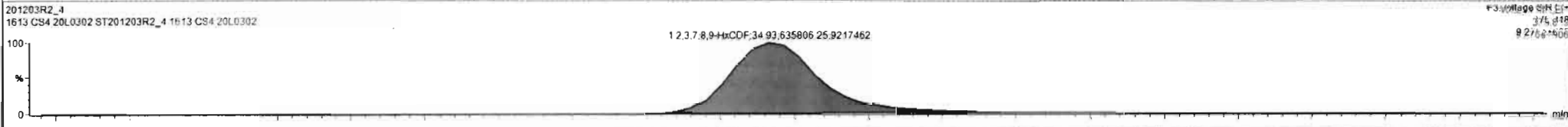
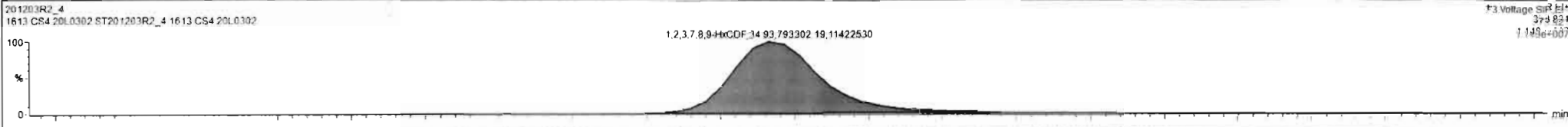
201203R2_4



F3:Voltage SIR,EI+
445.7555
2.336e+003

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

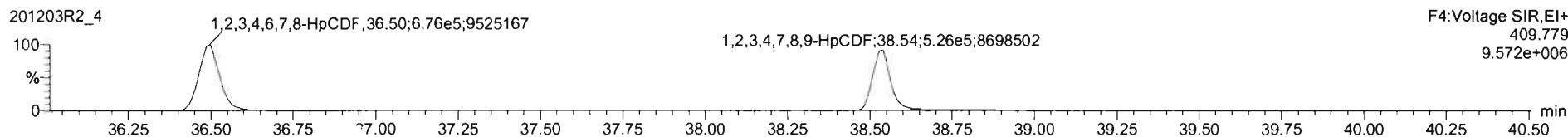
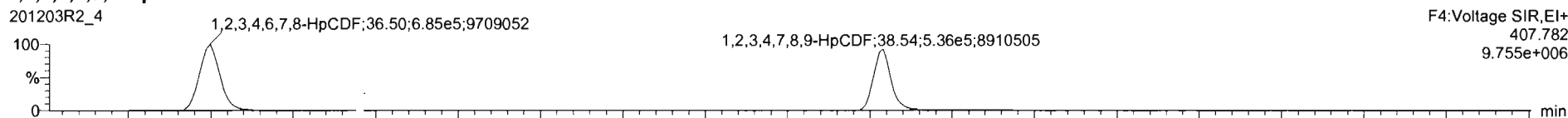


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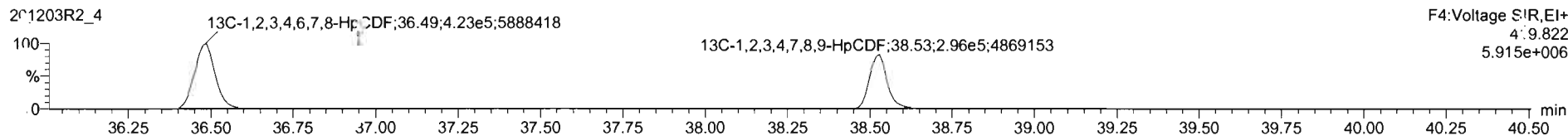
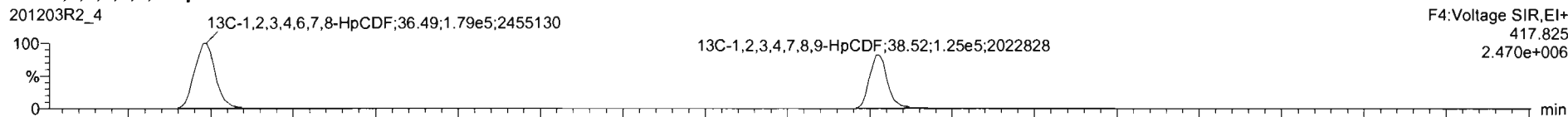
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302

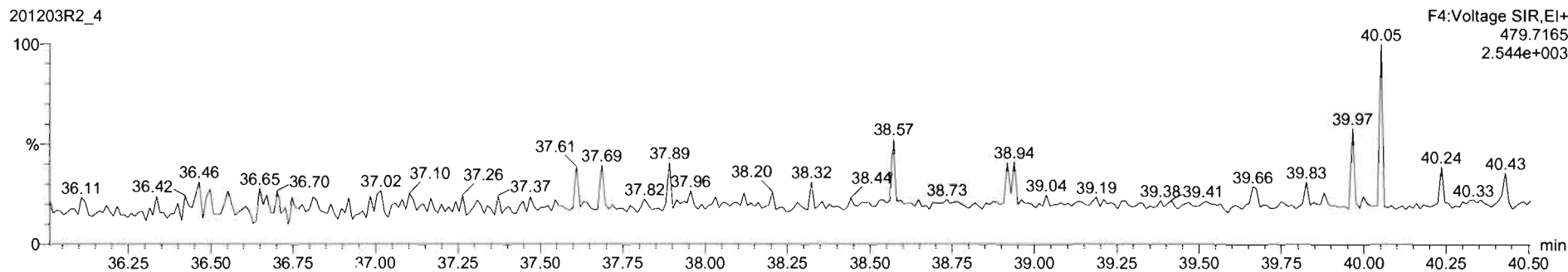
1,2,3,4,6,7,8-HpCDF



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



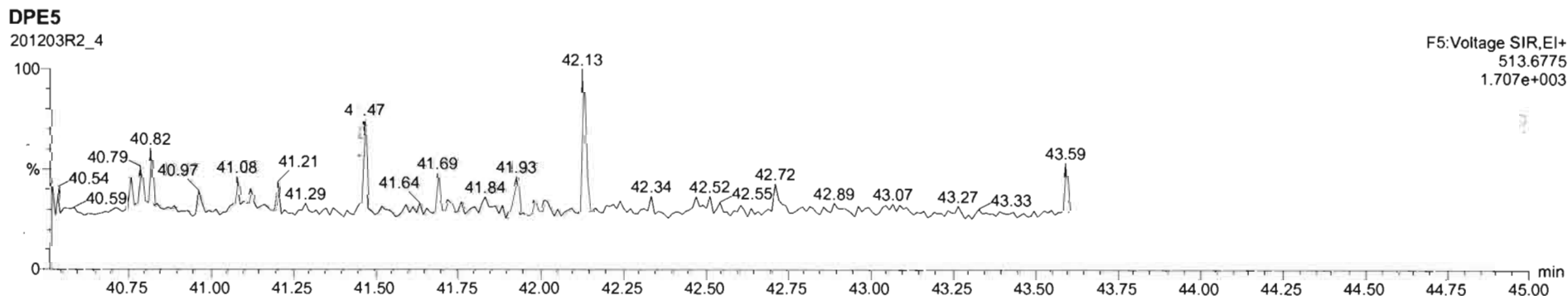
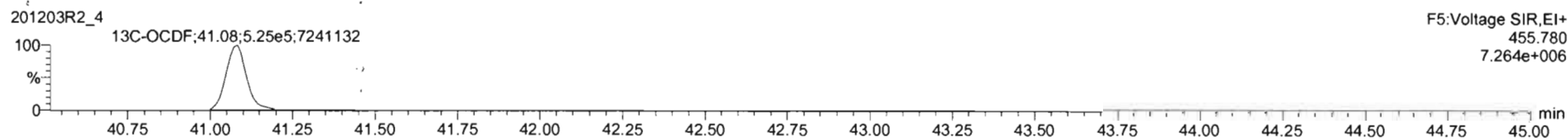
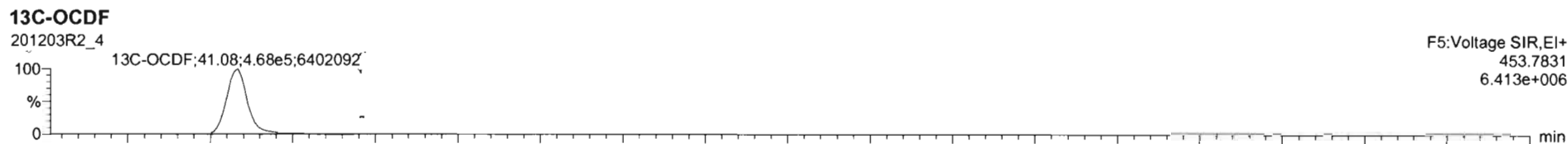
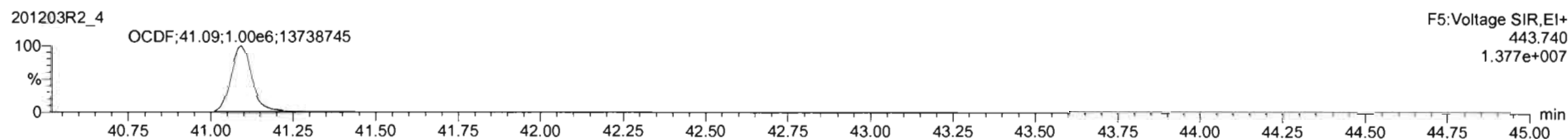
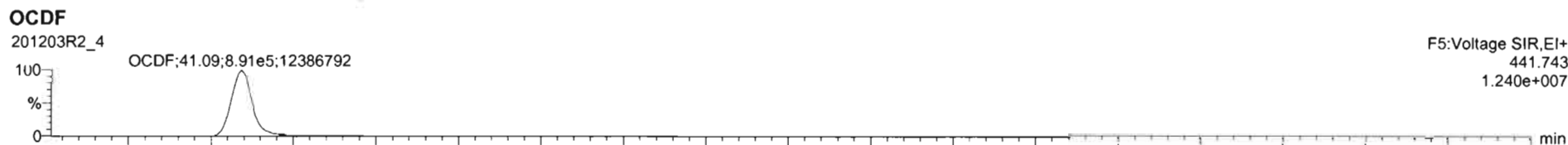
DPE4



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

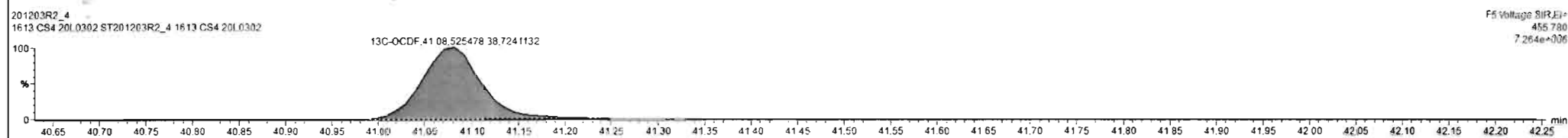
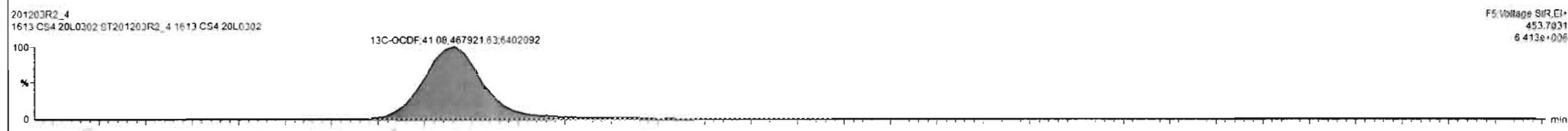
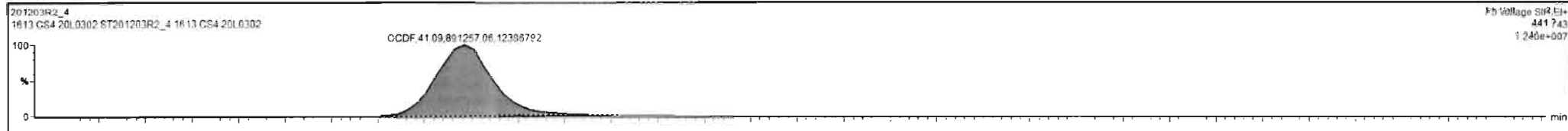
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_4, Date: 03-Dec-2020, Time: 13:00:37, ID: ST201203R2_4 1613 CS4 20L0302, Description: 1613 CS4 20L0302



201203R2_4 - ST201203R2_4 1613 CS4 20L0302 1613 CS4 20L0302

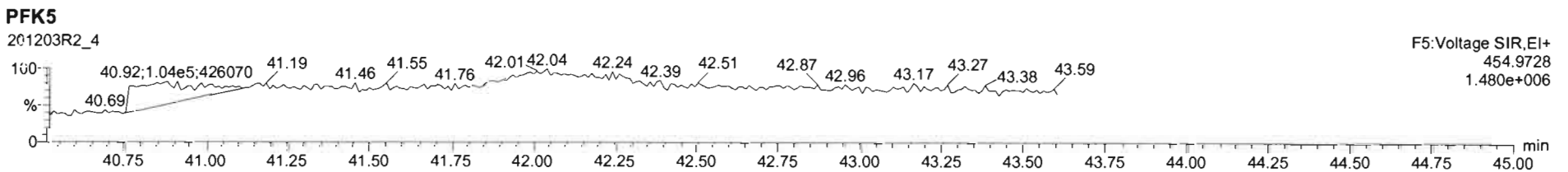
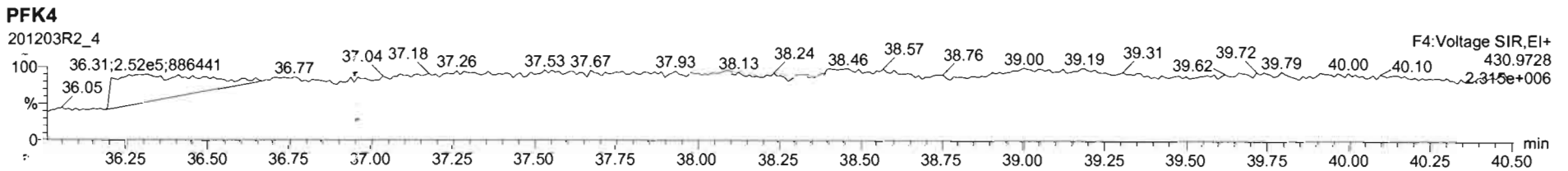
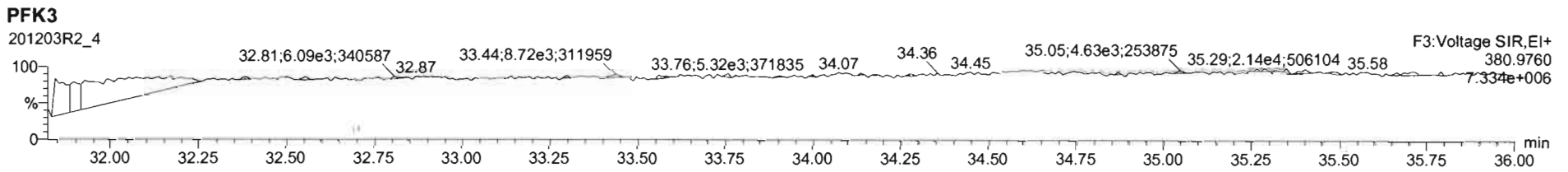
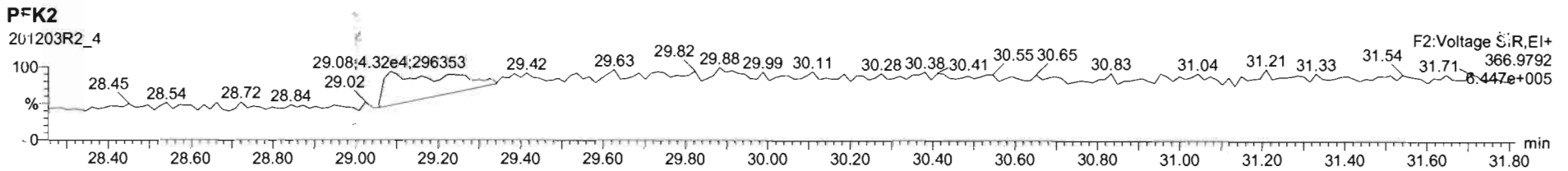
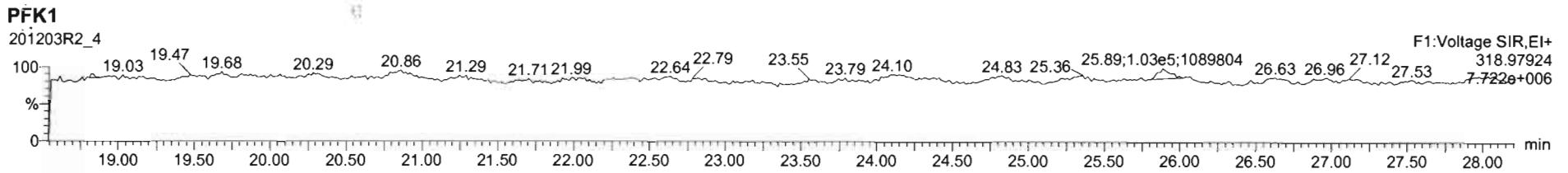
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17	OCDF	1.89e6	9.93e5	0.89	0.89	NO	0.9960	41.09	41.09	NO	1.000	1.000	435	106	NO
18	13C-2,3,7,8-TCDD	9.54e5	8.19e5	0.77	0.79	NO	1.0555	25.97	25.98	NO	1.030	1.031	110	110	NO
19	13C-1,2,3,7,8-PeCDD	7.22e5	8.19e5	0.63	0.63	NO	0.7847	30.67	30.73	NO	1.215	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

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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

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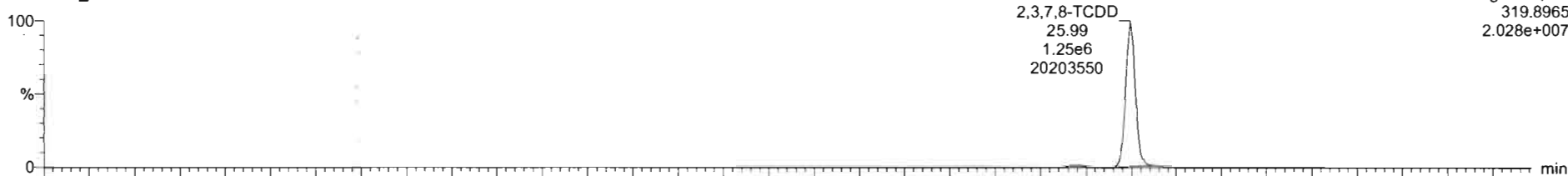
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

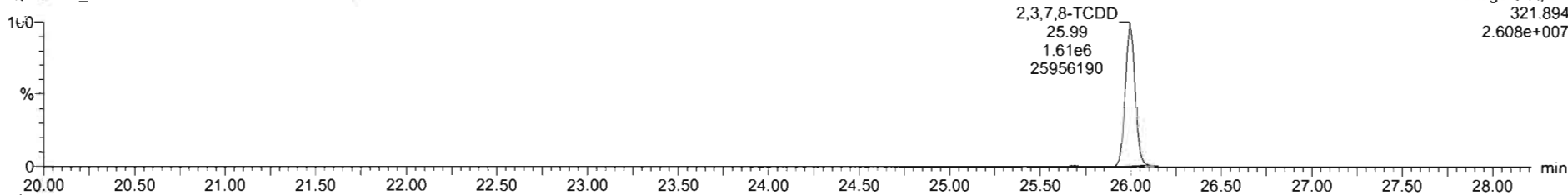
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2,3,7,8-TCDD

201203R2_5

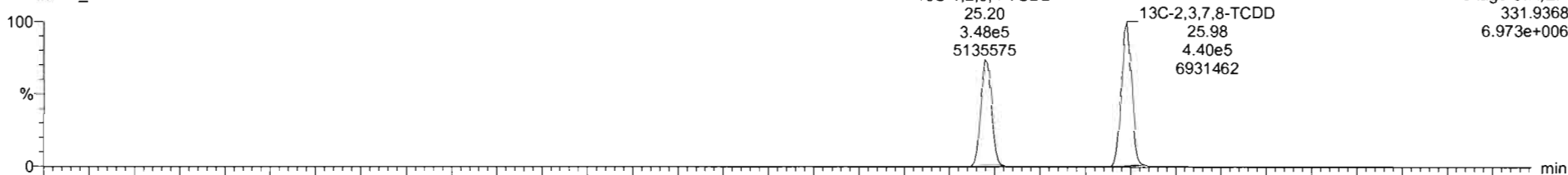


201203R2_5

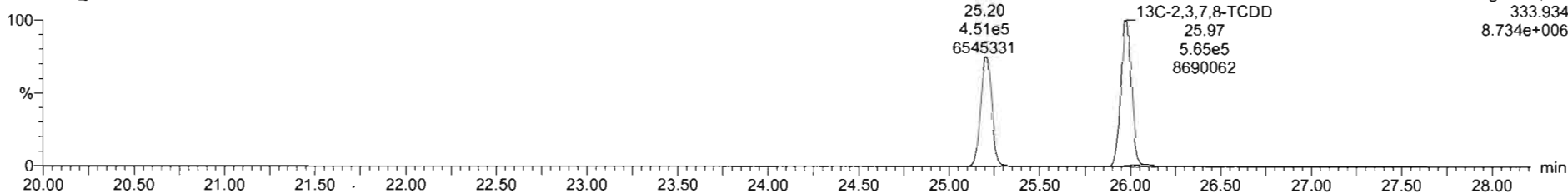


¹³C-2,3,7,8-TCDD

201203R2_5



201203R2_5



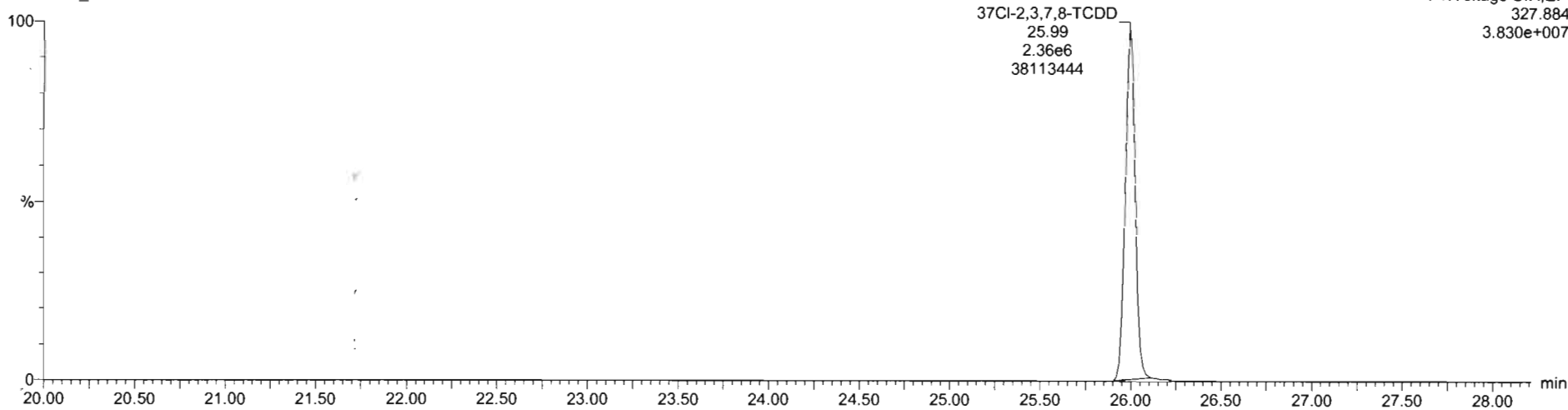
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

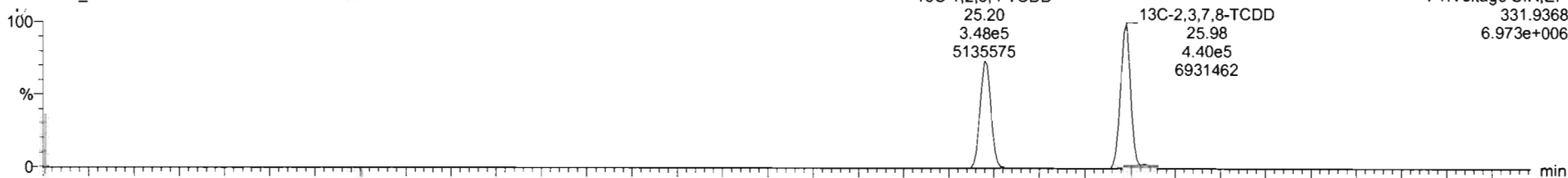
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201203R2_5

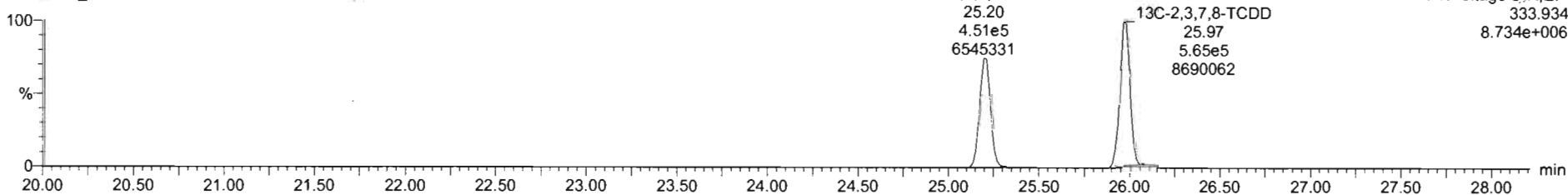


13C-1,2,3,4-TCDD

201203R2_5



201203R2_5



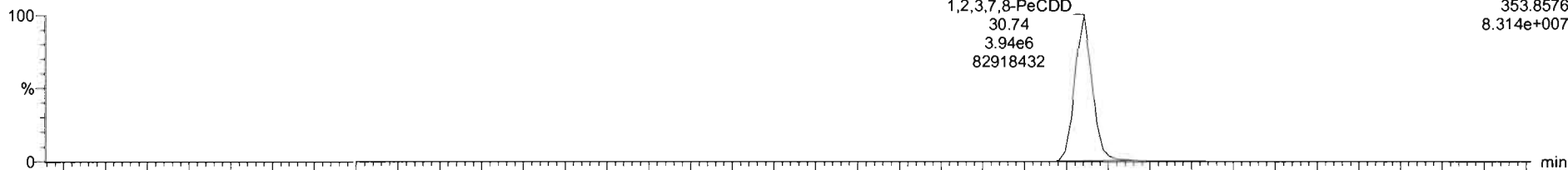
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

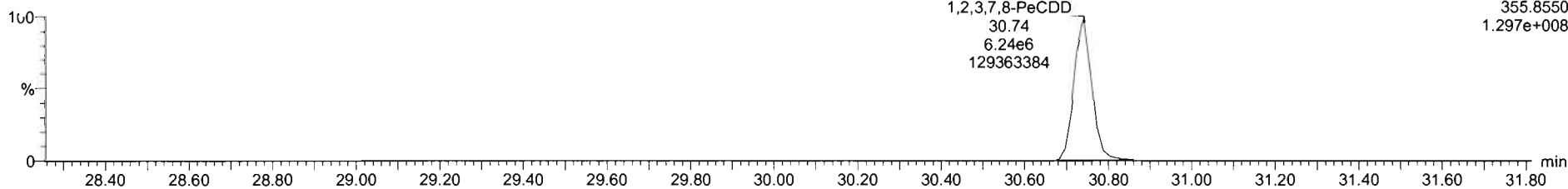
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1,2,3,7,8-PeCDD

201203R2_5

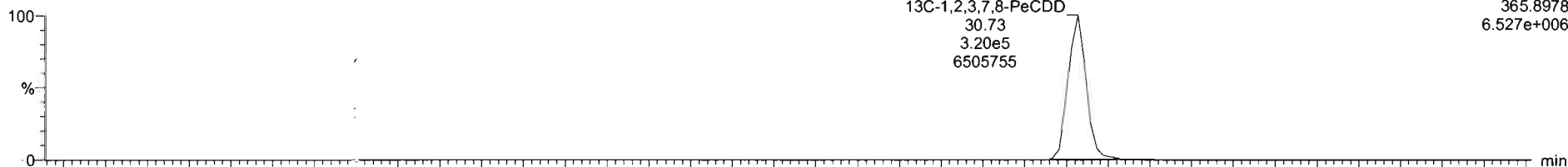


201203R2_5

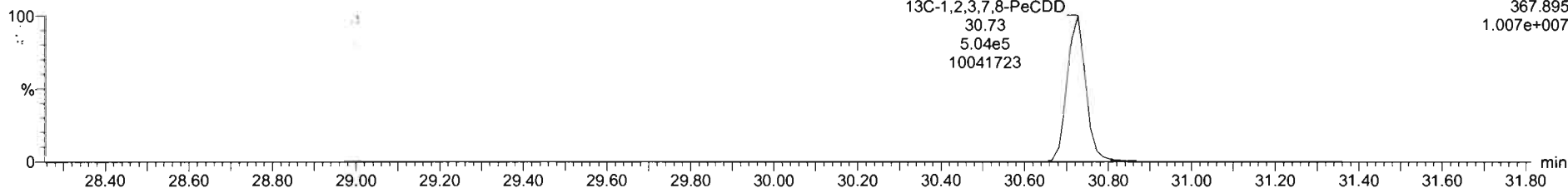


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201203R2_5



201203R2_5



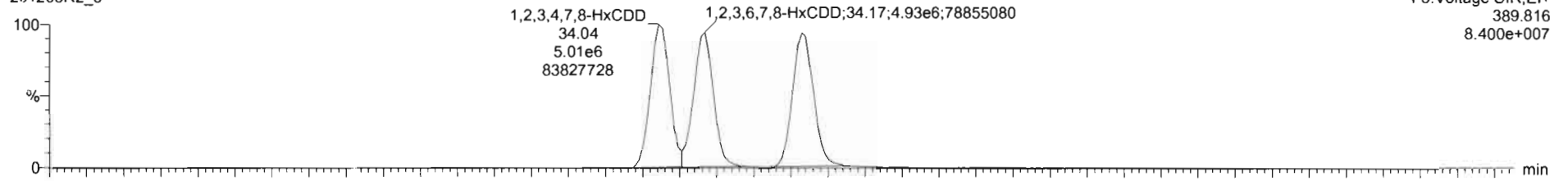
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

Name: 201203R2_5, Date: 03-Dec-2020, Time: 13:47:04, ID: ST201203R2_5 1613 CS5 20L0303, Description: 1613 CS5 20L0303

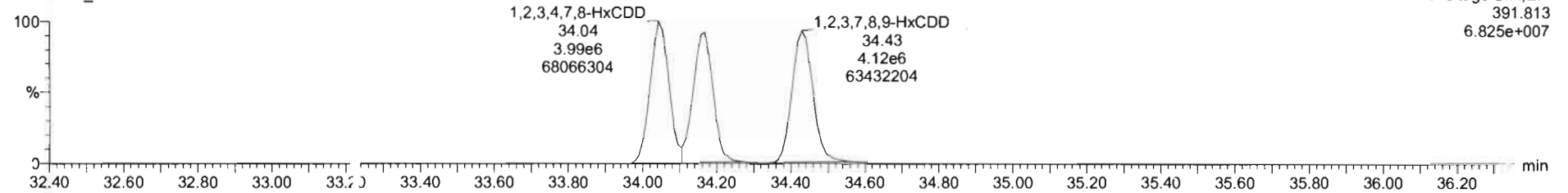
1,2,3,4,7,8-HxCDD

201203R2_5



F3:Voltage SIR,EI+
389.816
8.400e+007

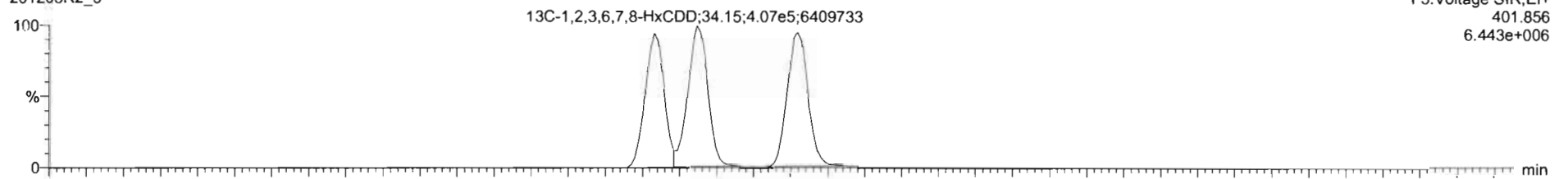
201203R2_5



F3:Voltage SIR,EI+
391.813
6.825e+007

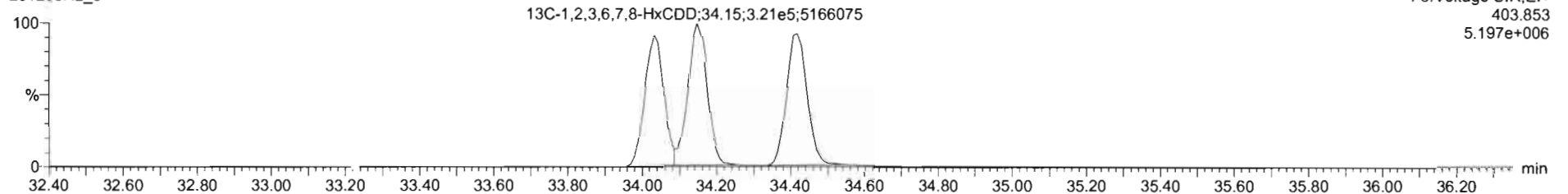
13C-1,2,3,4,7,8-HxCDD

201203R2_5



F3:Voltage SIR,EI+
401.856
6.443e+006

201203R2_5



F3:Voltage SIR,EI+
403.853
5.197e+006

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

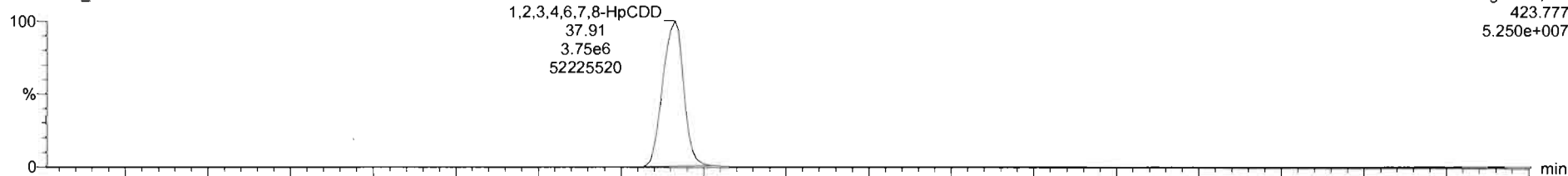
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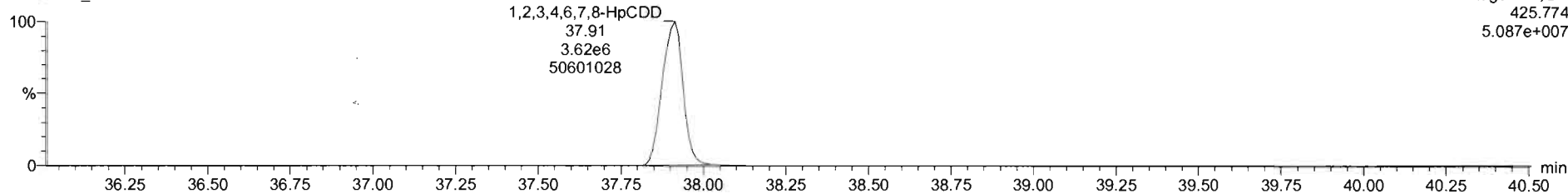
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1,2,3,4,6,7,8-HpCDD

201203R2_5

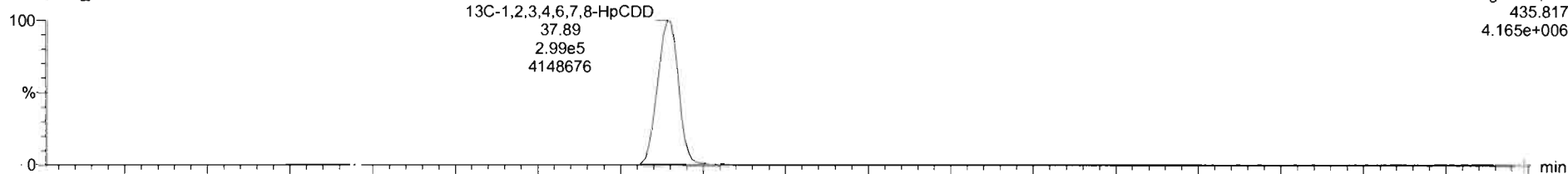


201203R2_5

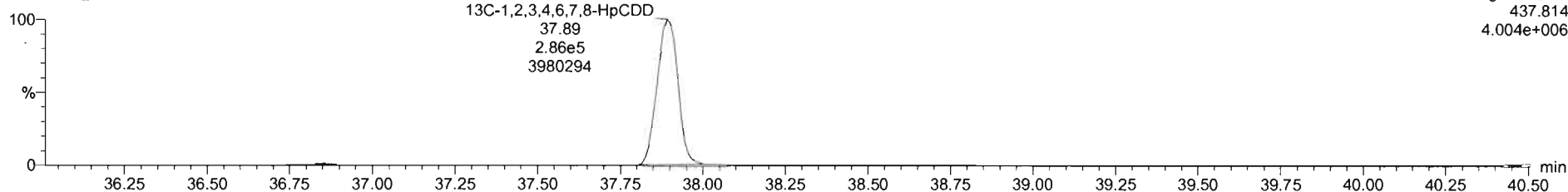


13C-1,2,3,4,6,7,8-HpCDD

201203R2_5



201203R2_5



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

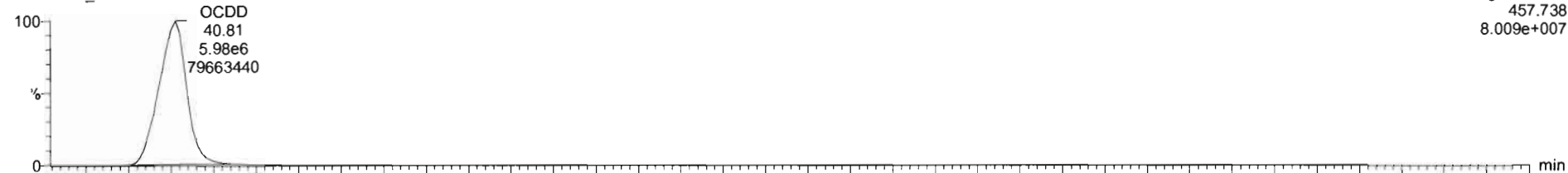
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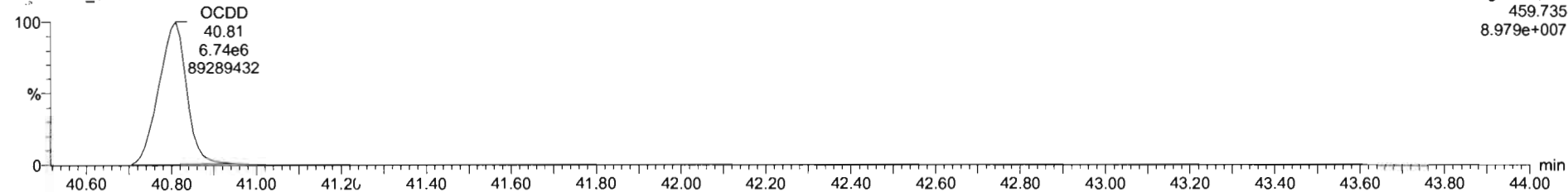
OCDD

201203R2_5



F5:Voltage SIR,EI+
457.738
8.009e+007

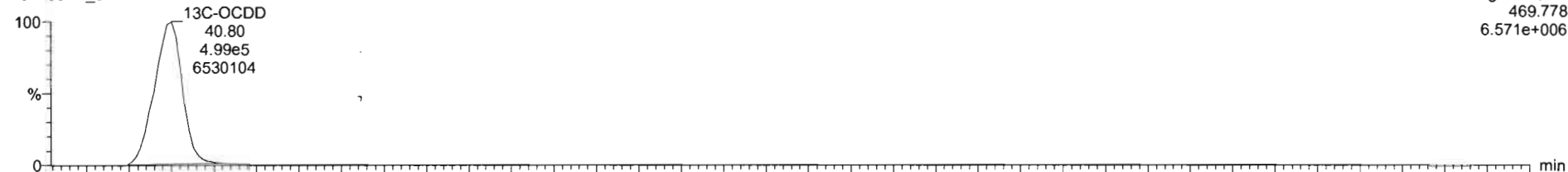
201203R2_5



F5:Voltage SIR,EI+
459.735
8.979e+007

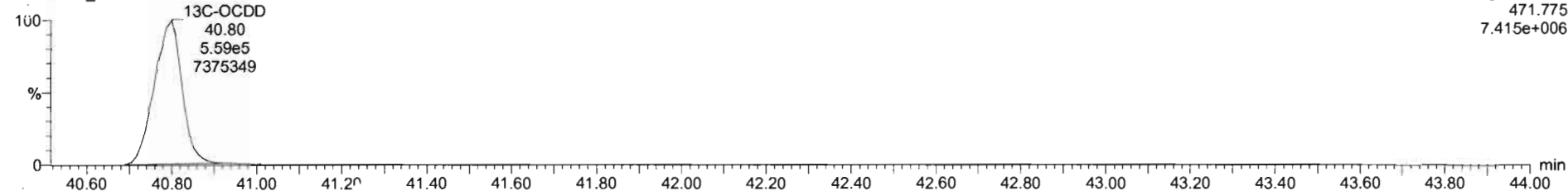
13C-OCDD

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

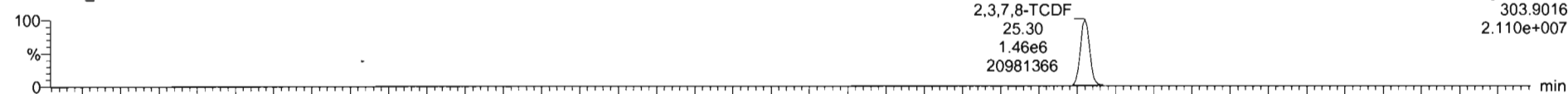
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

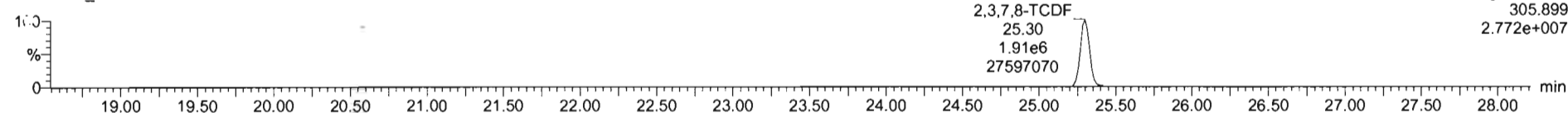
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2,3,7,8-TCDF

201203R2_5

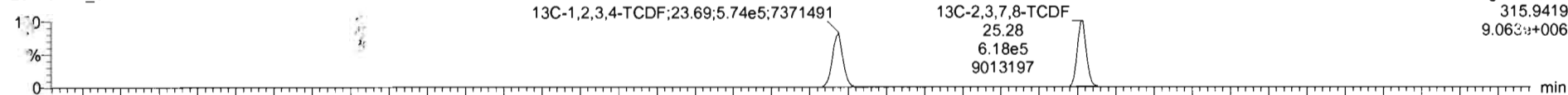


201203R2_5

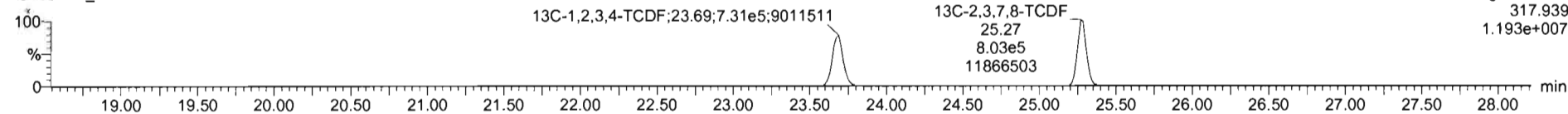


13C-2,3,7,8-TCDF

201203R2_5

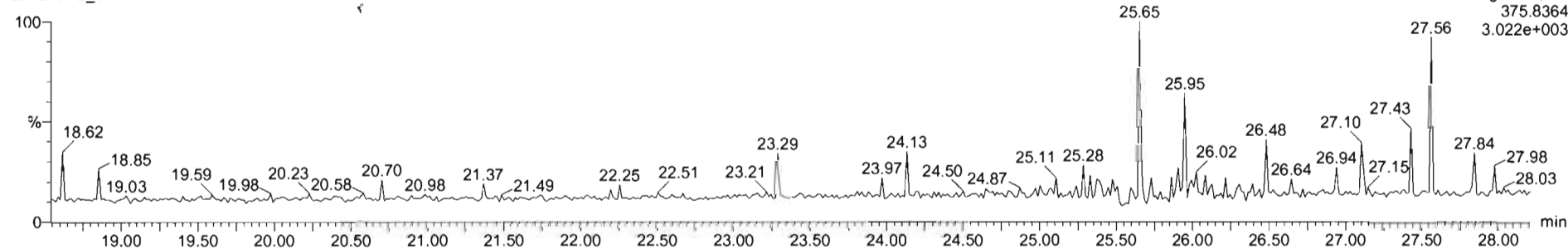


201203R2_5



DPE1

201203R2_5



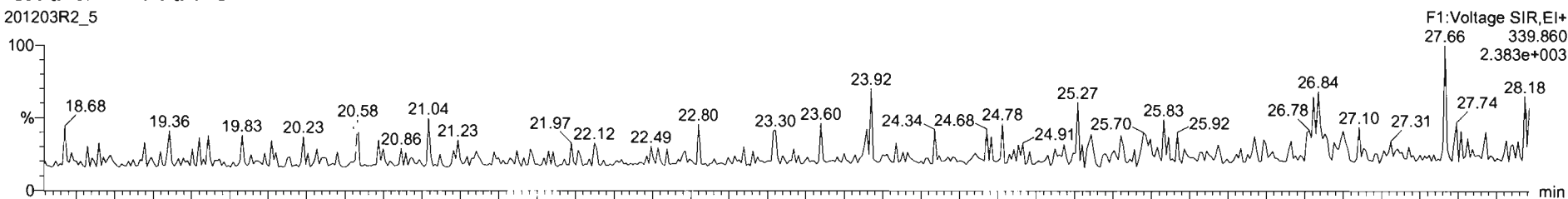
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

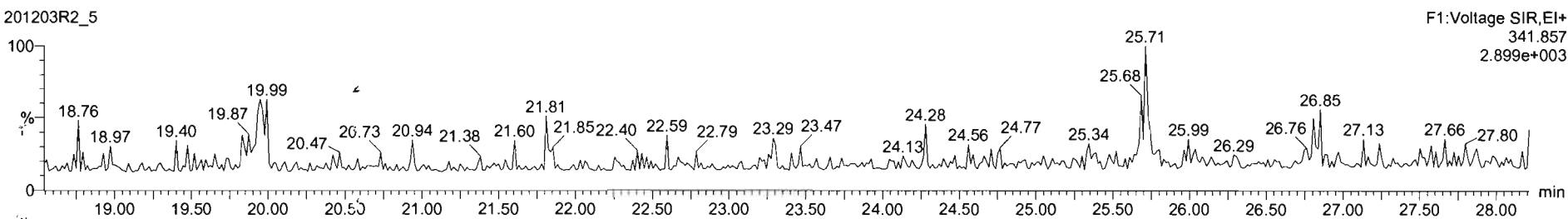
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1st Func. Penta-Furans

201203R2_5

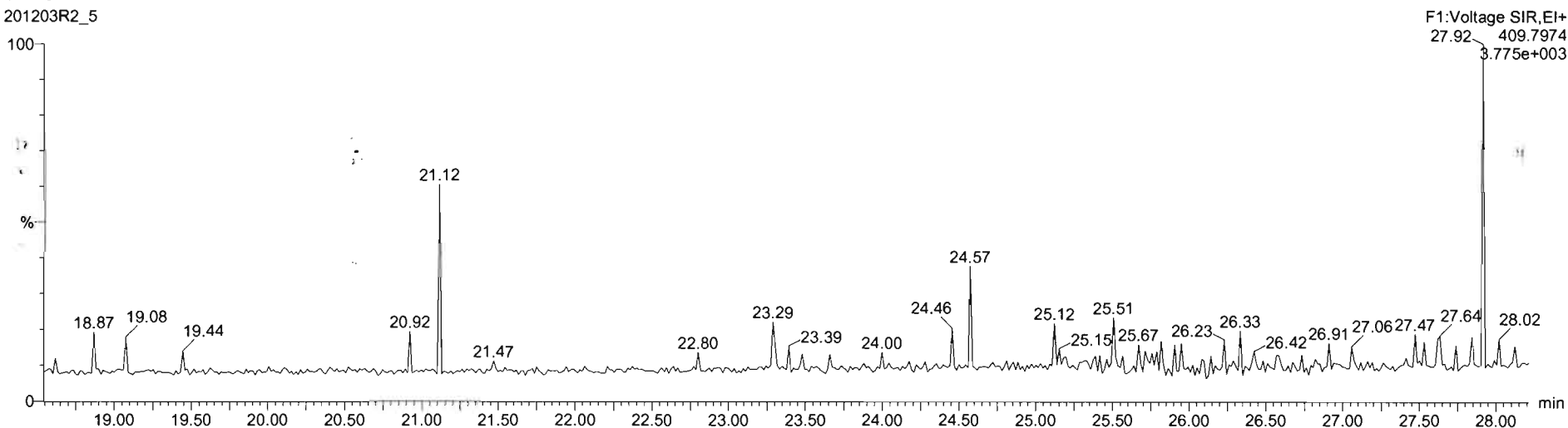


201203R2_5



DPE6

201203R2_5



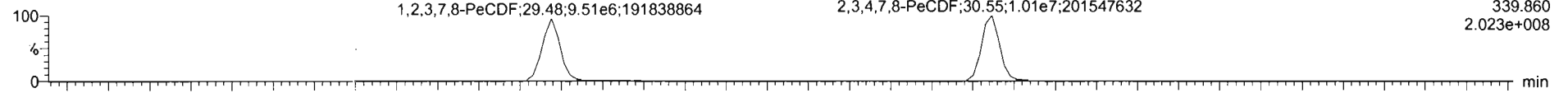
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Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

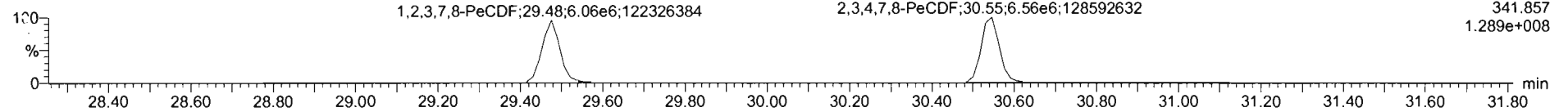
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1,2,3,7,8-PeCDF

201203R2_5

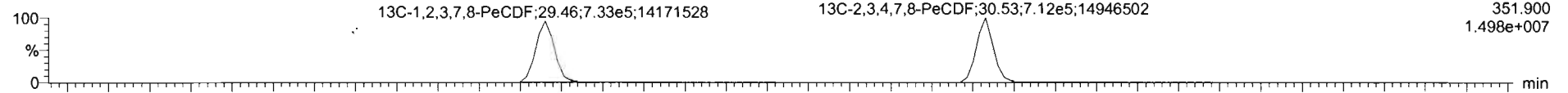


201203R2_5

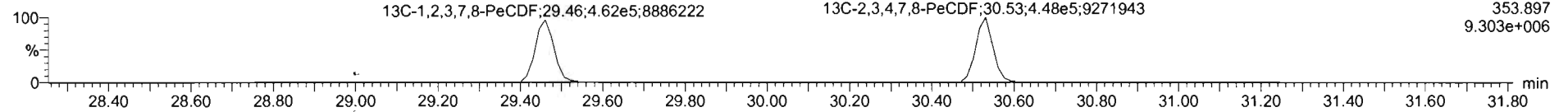


13C-1,2,3,7,8-PeCDF

201203R2_5

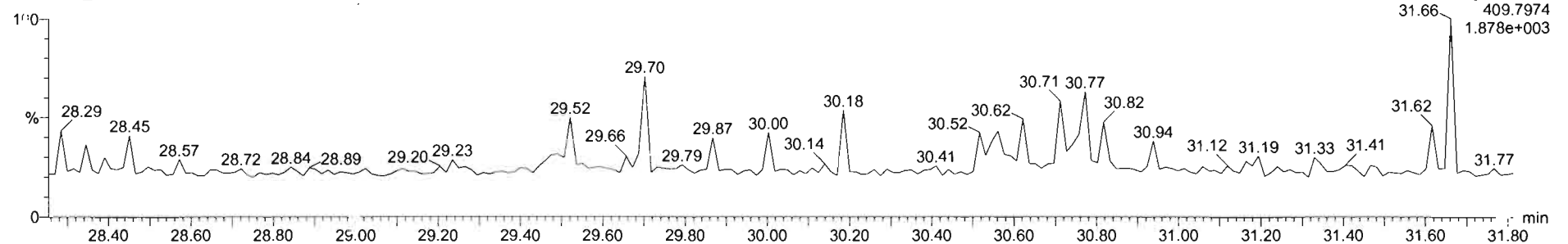


201203R2_5



DPE2

201203R2_5



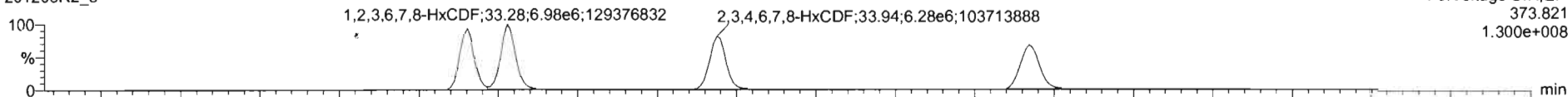
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Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

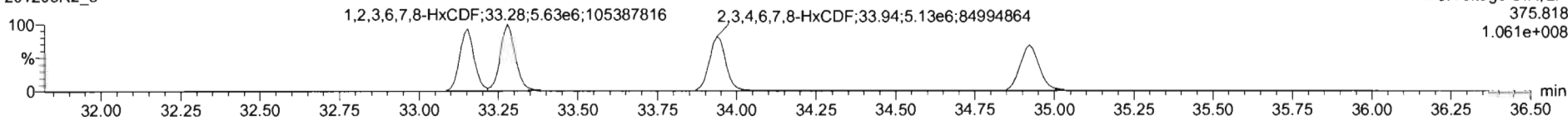
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1,2,3,4,7,8-HxCDF

201203R2_5

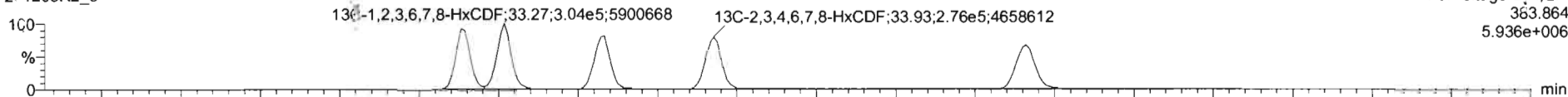


201203R2_5

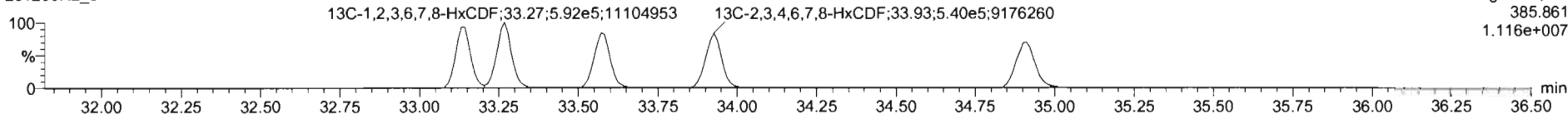


13C-1,2,3,4,7,8-HxCDF

201203R2_5

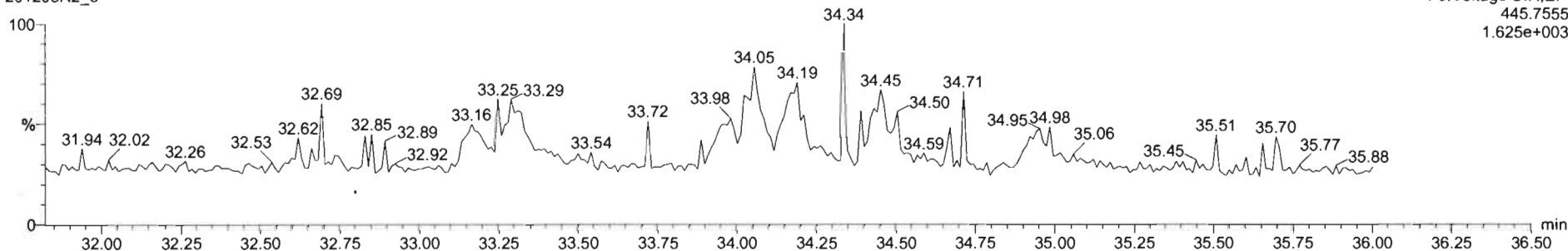


201203R2_5



DPE3

201203R2_5

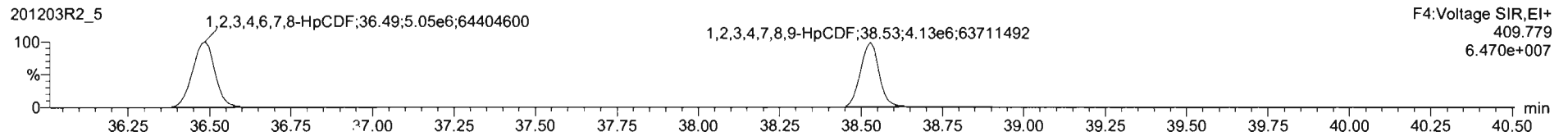
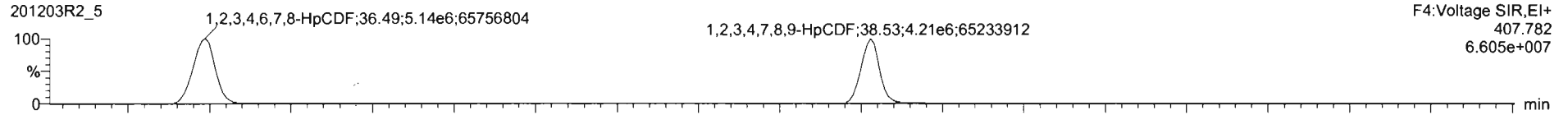


D .taset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

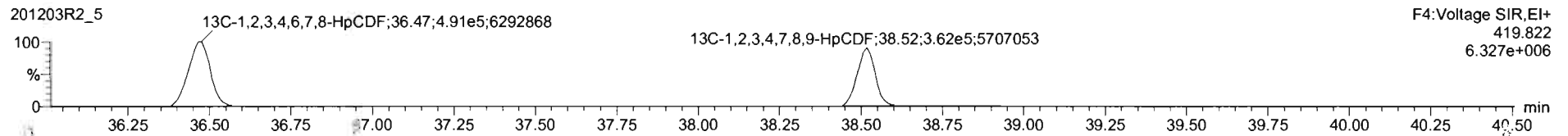
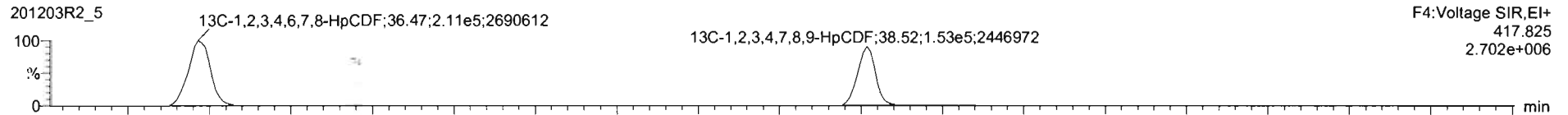
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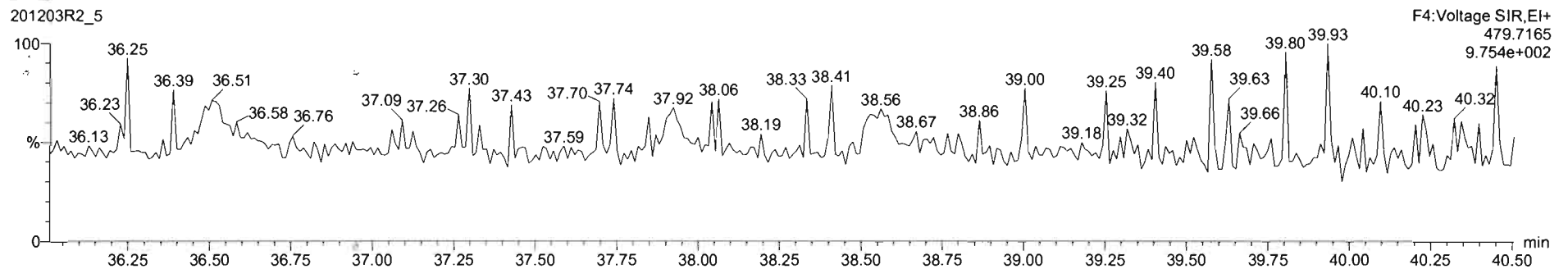
1,2,3,4,6,7,8-HpCDF



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



DPE4



Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

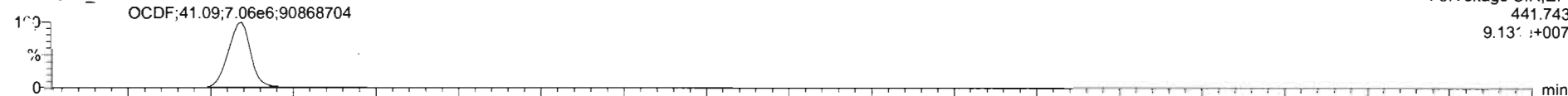
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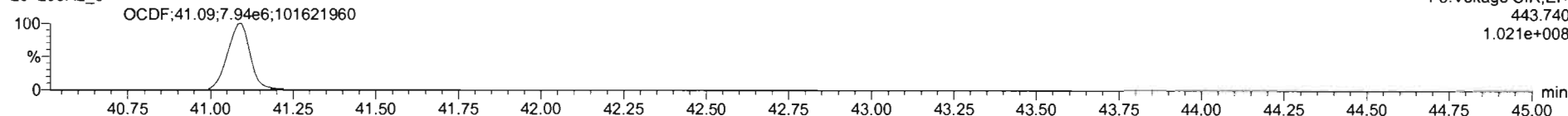
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OCDF

201203R2_5

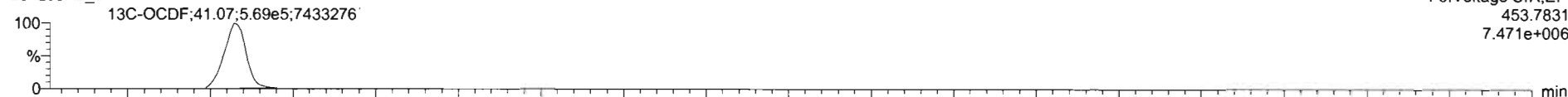


201203R2_5

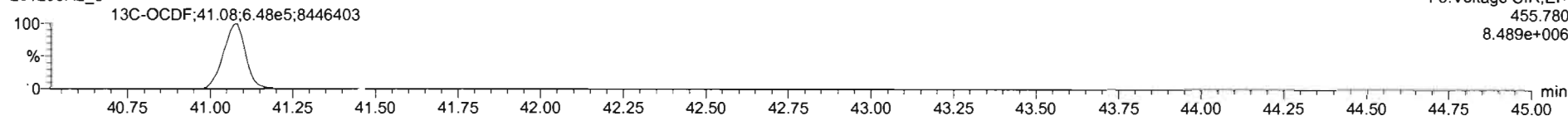


13C-OCDF

201203R2_5

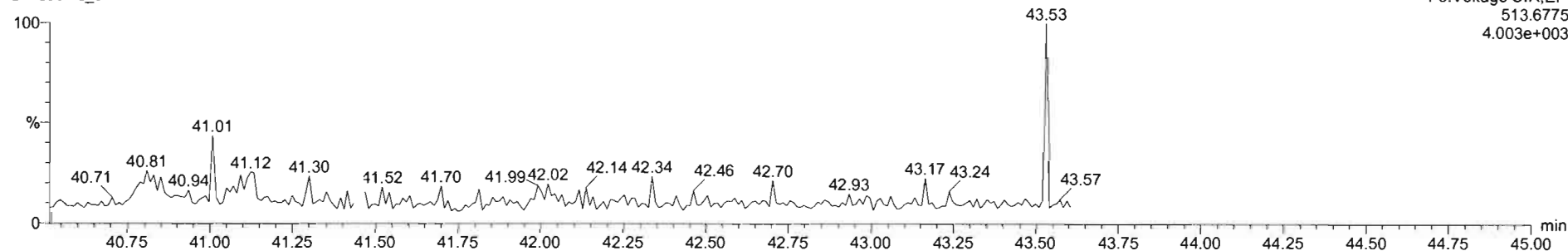


201203R2_5



DPE5

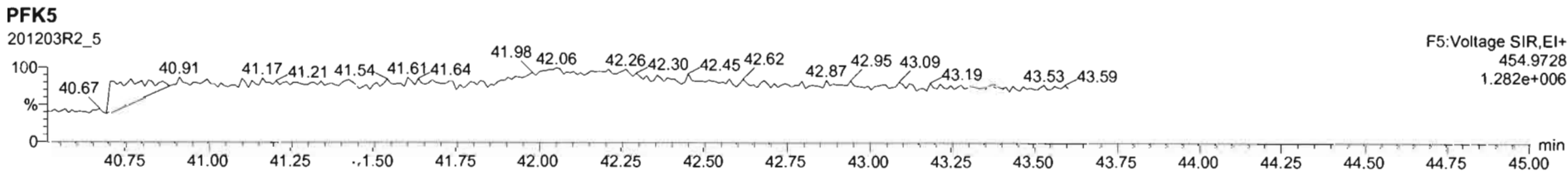
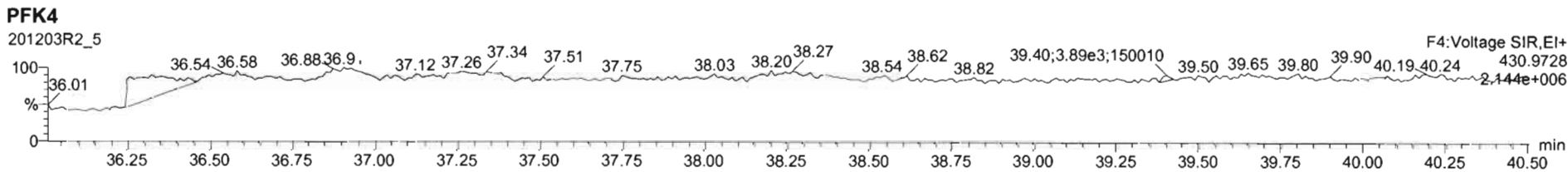
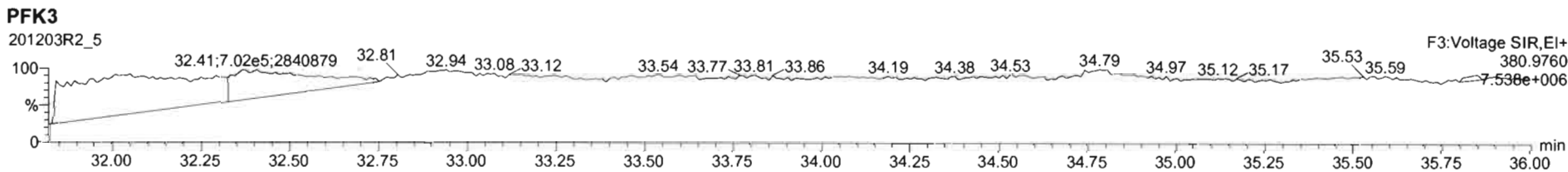
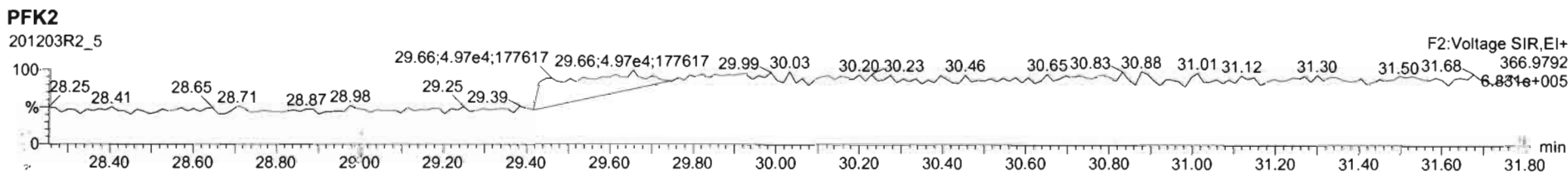
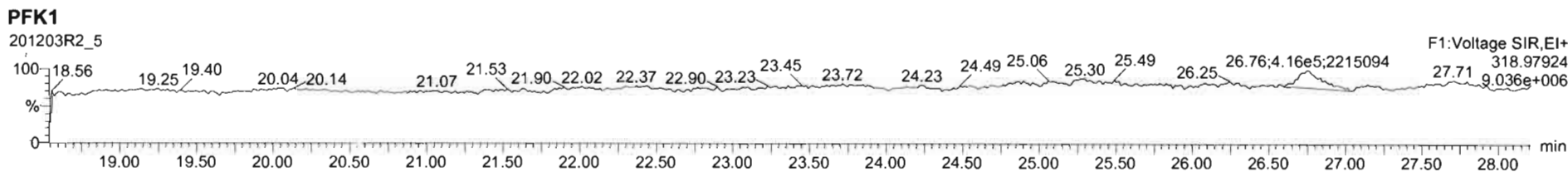
201203R2_5



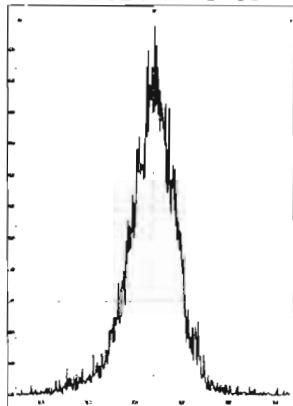
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_CRV.qld

Last Altered: Friday, December 04, 2020 08:58:11 Pacific Standard Time
Printed: Friday, December 04, 2020 09:59:16 Pacific Standard Time

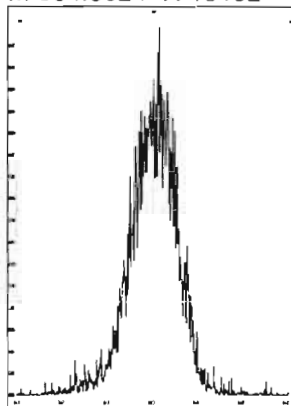
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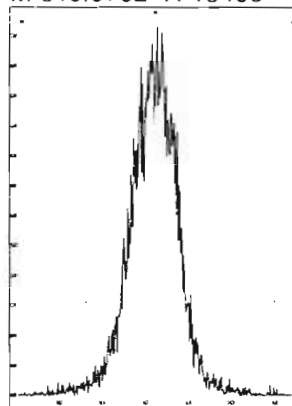
M 292.9824 R 13305



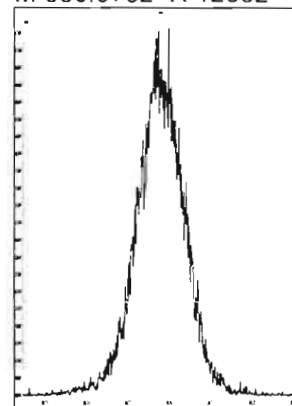
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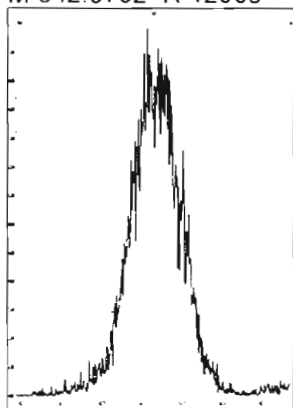
M 318.9792 R 13406



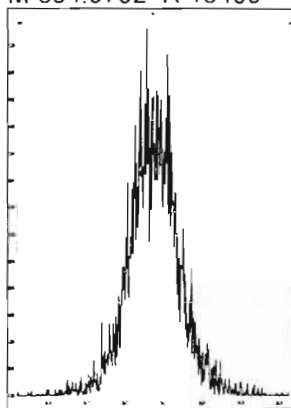
M 330.9792 R 12562



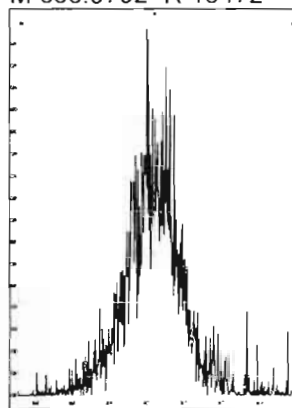
M 342.9792 R 12005



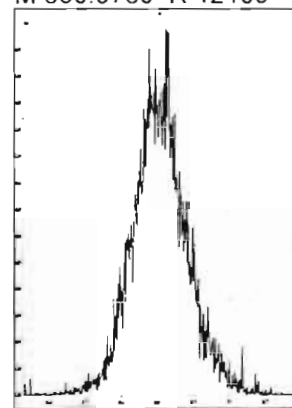
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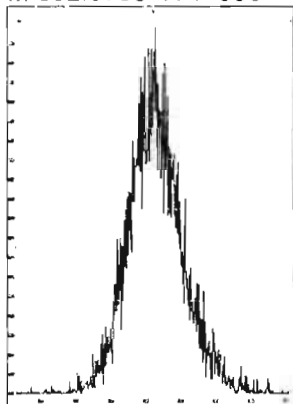
M 366.9792 R 13472



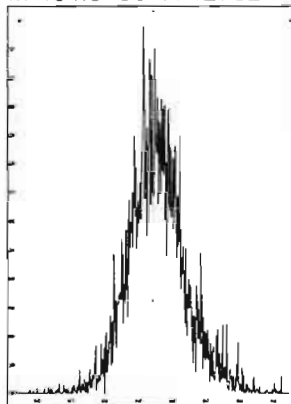
M 380.9760 R 12109



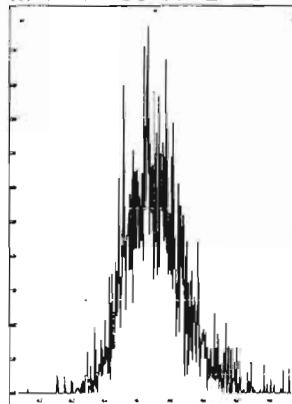
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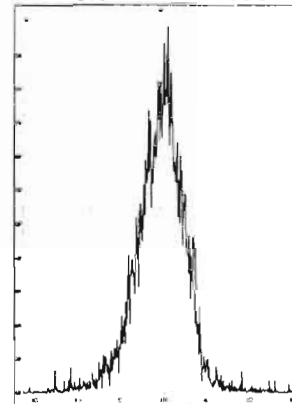
M 404.9760 R 12732



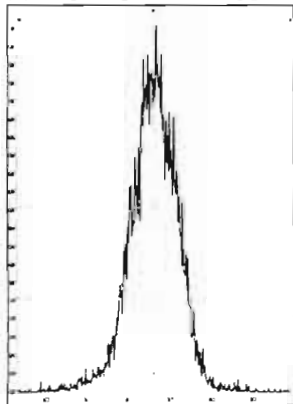
M 416.9760 R 12233



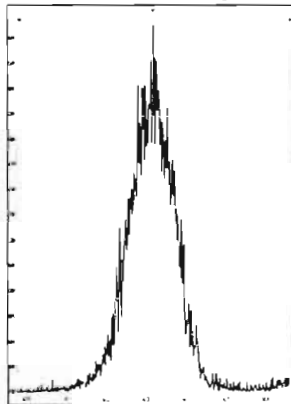
M 318.9792 R 14098



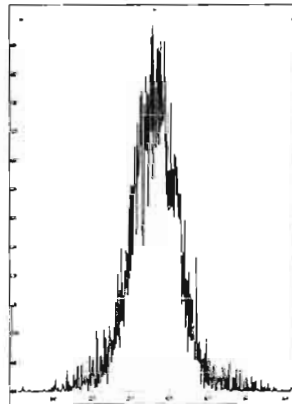
M 330.9792 R 13785



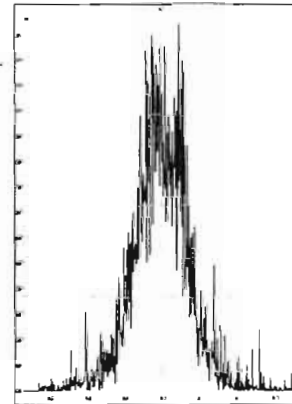
M 342.9792 R 12872



M 354.9792 R 14296

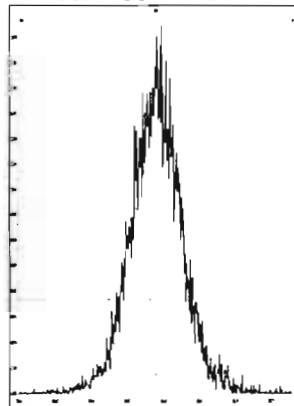


M 366.9792 R 14931

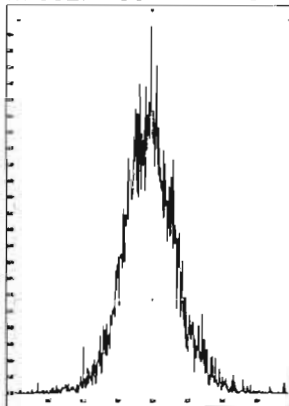


Printed: Thursday, December 03, 2020 17:02:52 Pacific Standard Time

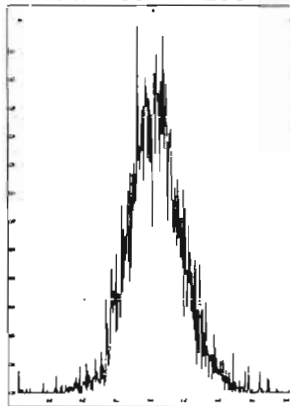
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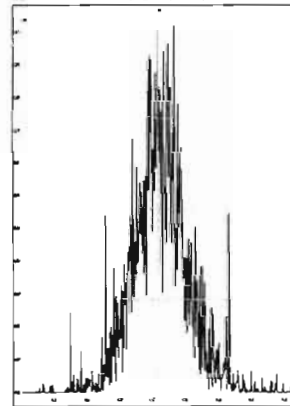
M 392.9760 R 11966



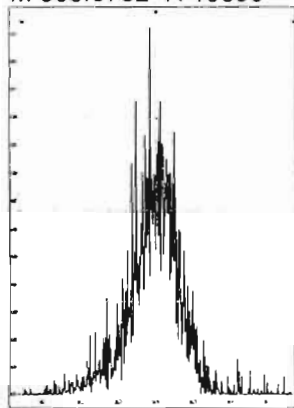
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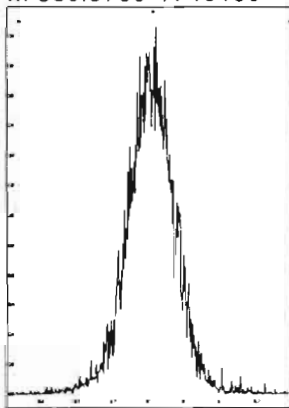
M 416.9760 R 14189



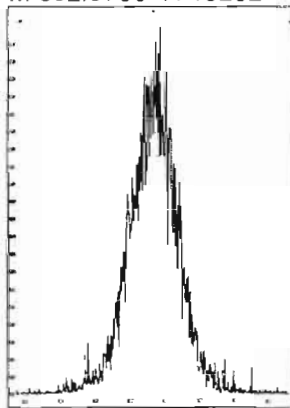
M 366.9792 R 16388



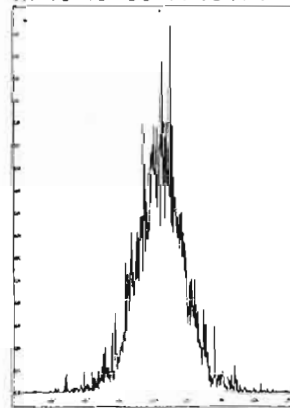
M 380.9760 R 13160



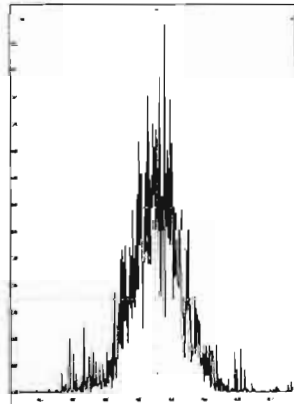
M 392.9760 R 13262



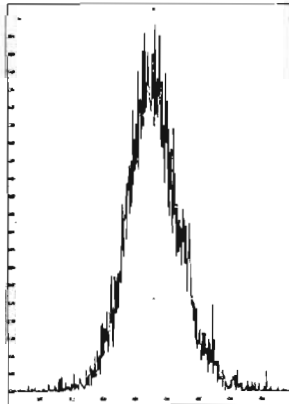
M 404.9760 R 13171



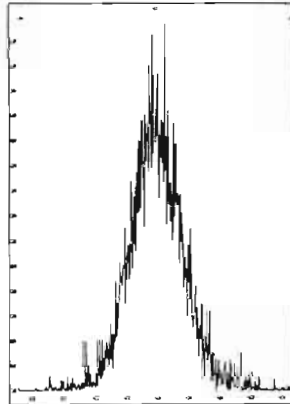
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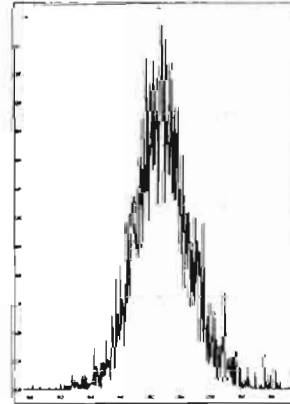
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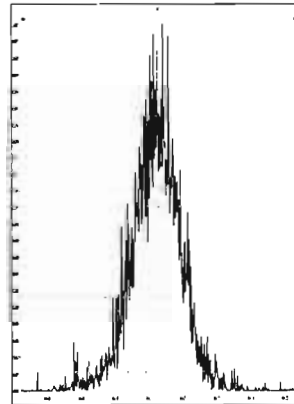
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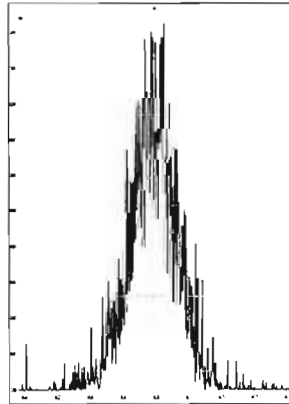
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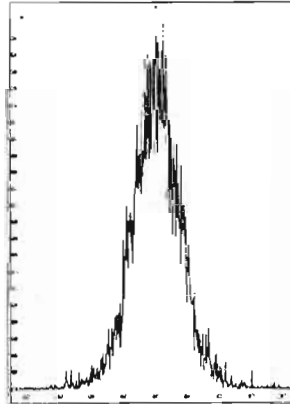
M 404.9760 R 14759



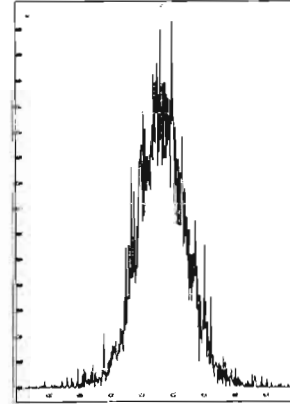
M 416.9760 R 15712



M 430.9728 R 13311

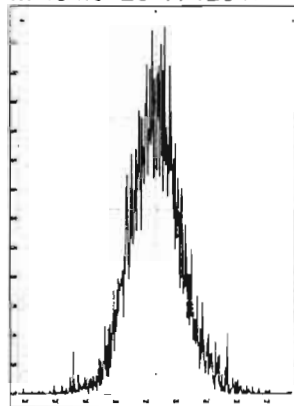


M 442.9728 R 13454

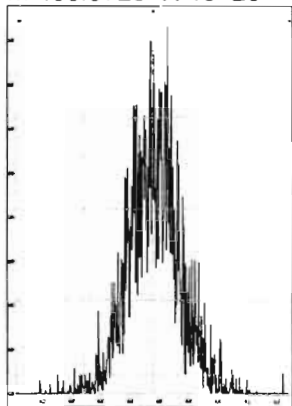


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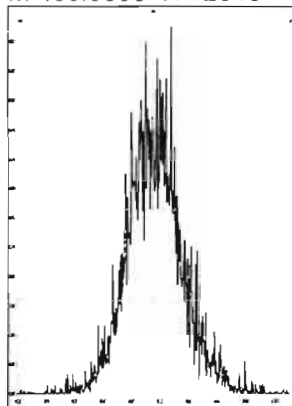
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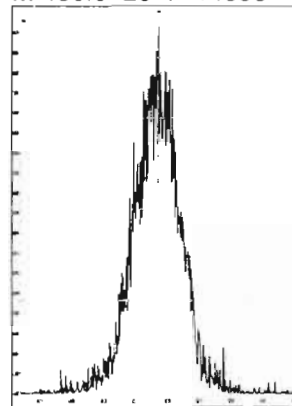
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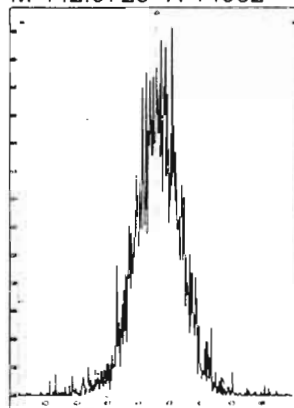
M 480.9696 R 12613



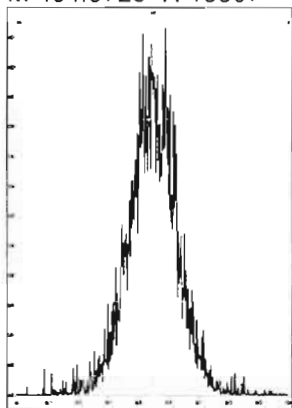
M 430.9728 R 14353



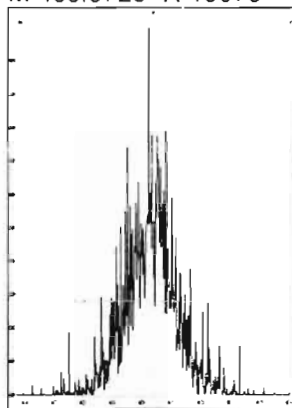
M 442.9728 R 14532



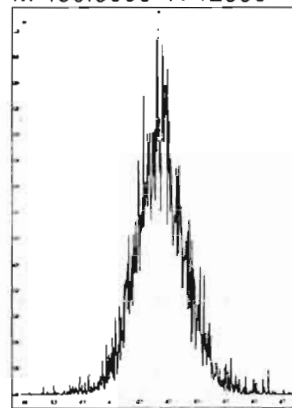
M 454.9728 R 13307



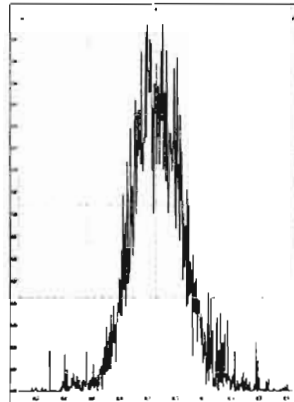
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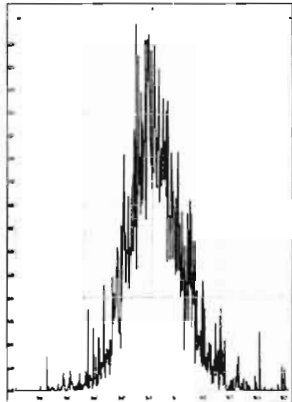
M 480.9696 R 12596



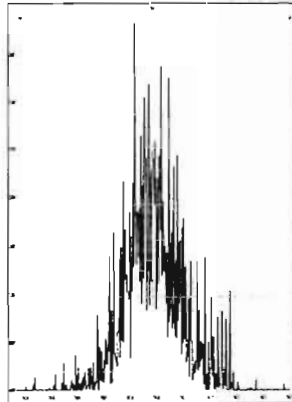
M 492.9696 R 13058



M 504.9696 R 12886



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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

Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

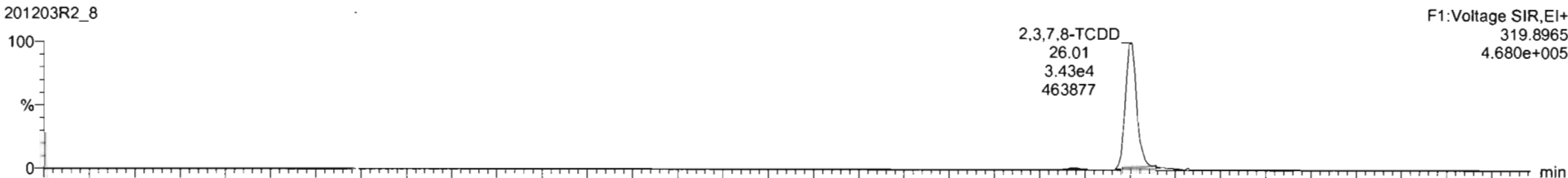
Method: U:\VG12.PRO\MethDB\1613rrt-11-11-20.mdb 12 Nov 2020 07:51:39

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

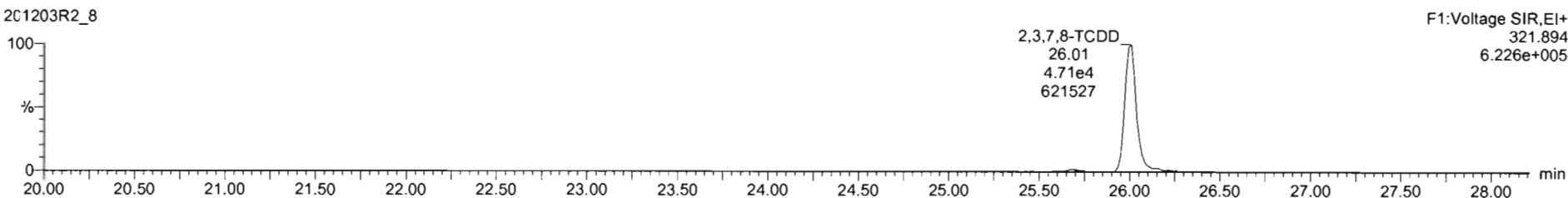
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

2,3,7,8-TCDD

201203R2_8

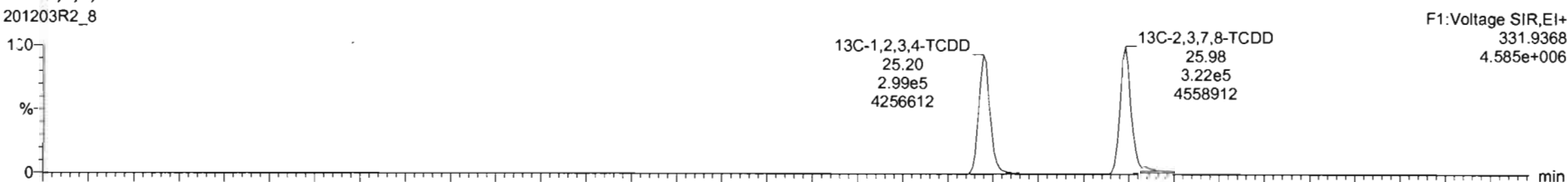


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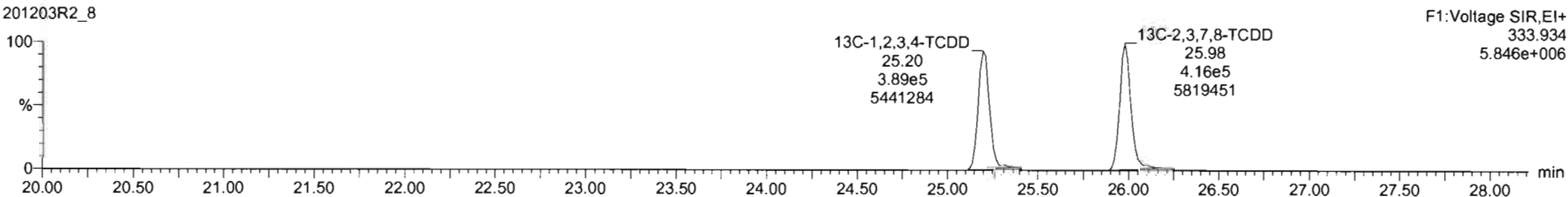


13C-2,3,7,8-TCDD

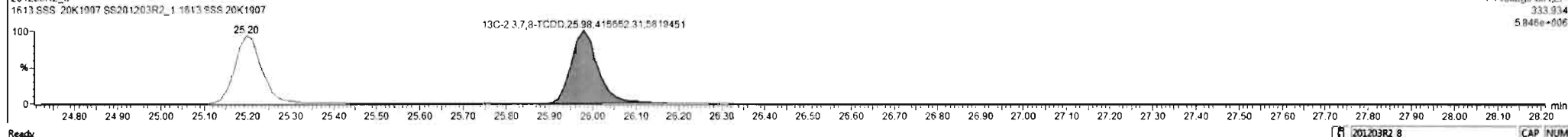
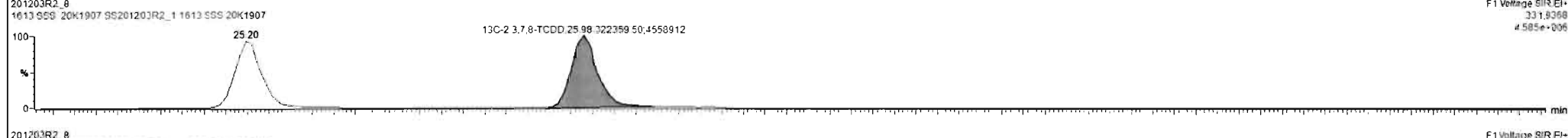
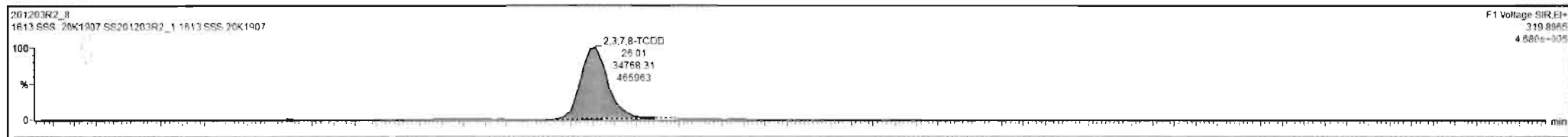
201203R2_8



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	34.45	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	37.31	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



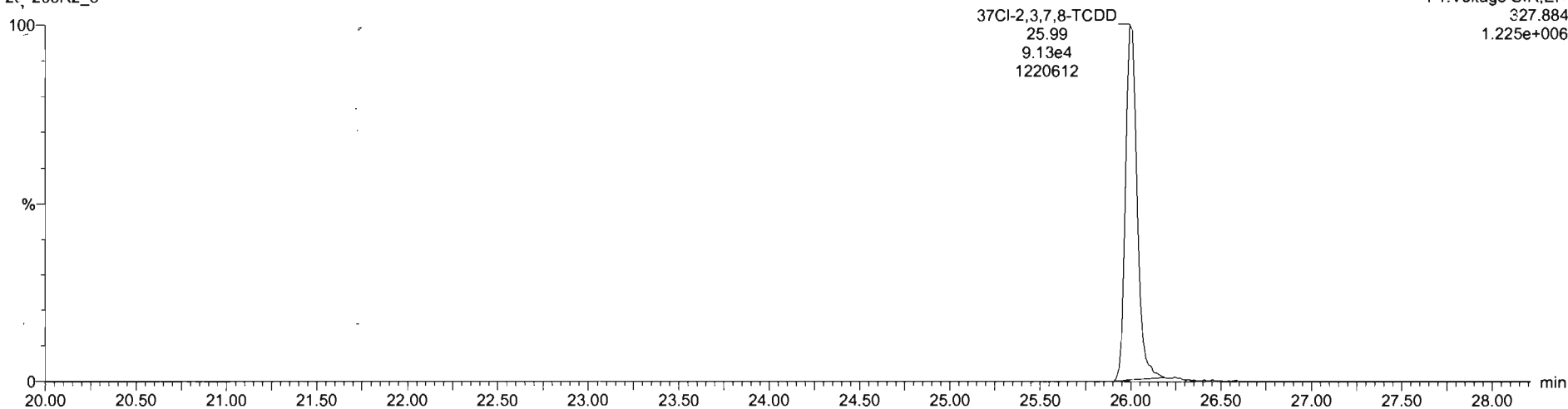
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

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

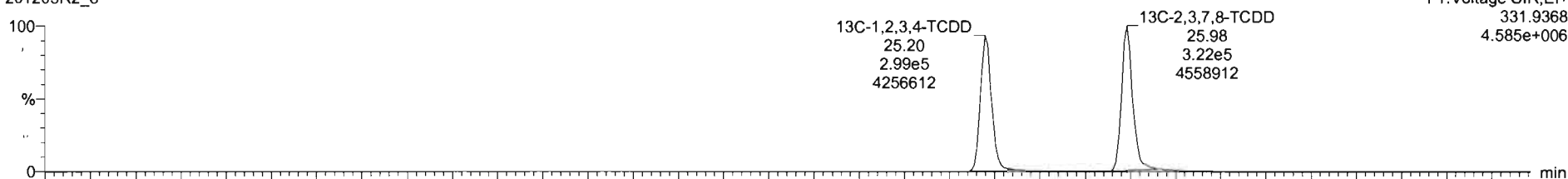
37Cl-2,3,7,8-TCDD

201203R2_8

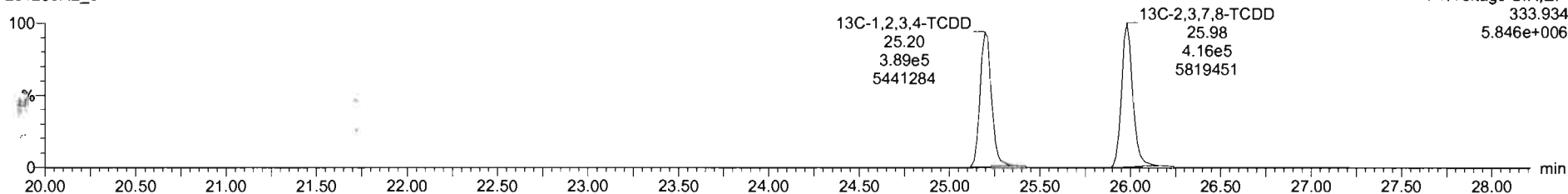


13C-1,2,3,4-TCDD

201203R2_8



201203R2_8



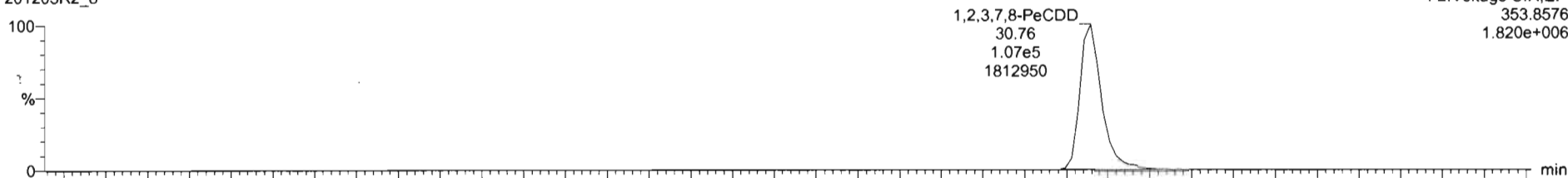
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

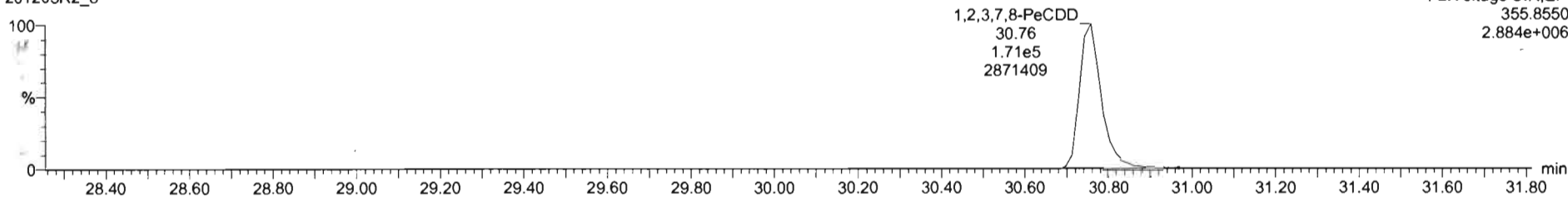
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

1,2,3,7,8-PeCDD

201203R2_8

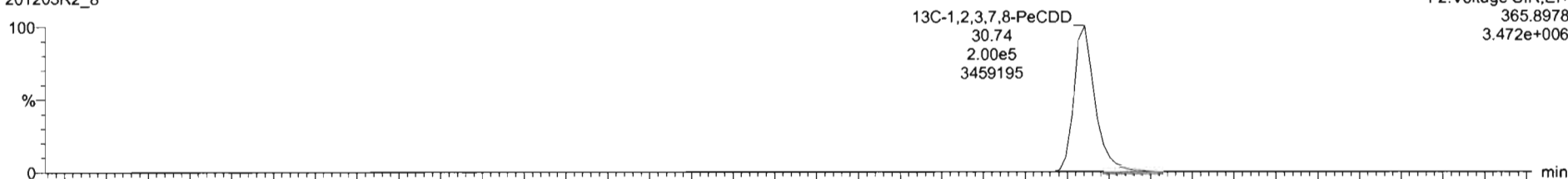


201203R2_8

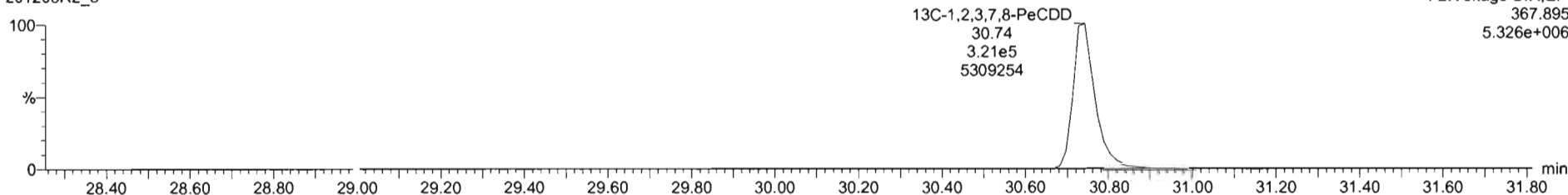


13C-1,2,3,7,8-PeCDD

201203R2_8



201203R2_8



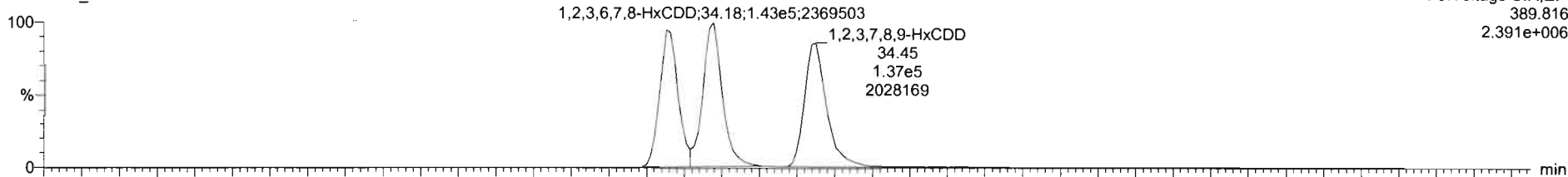
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

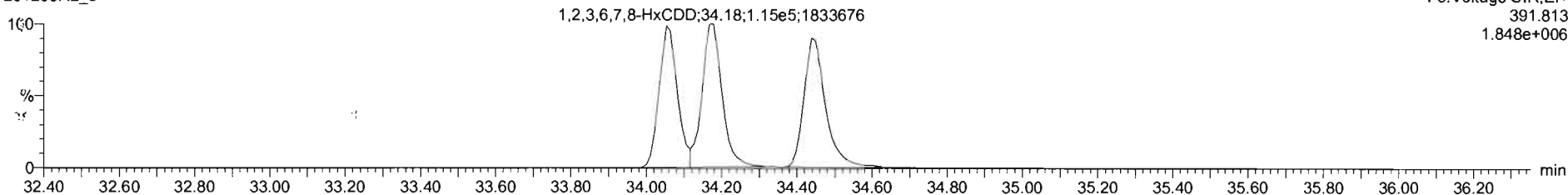
1,2,3,4,7,8-HxCDD

201203R2_8



F3:Voltage SIR,EI+
389.816
2.391e+006

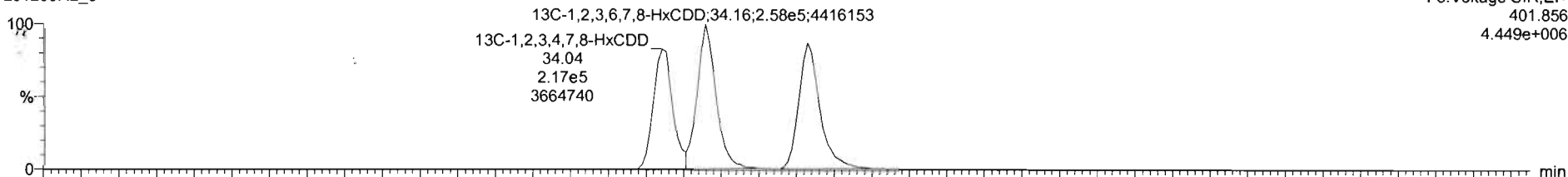
201203R2_8



F3:Voltage SIR,EI+
391.813
1.848e+006

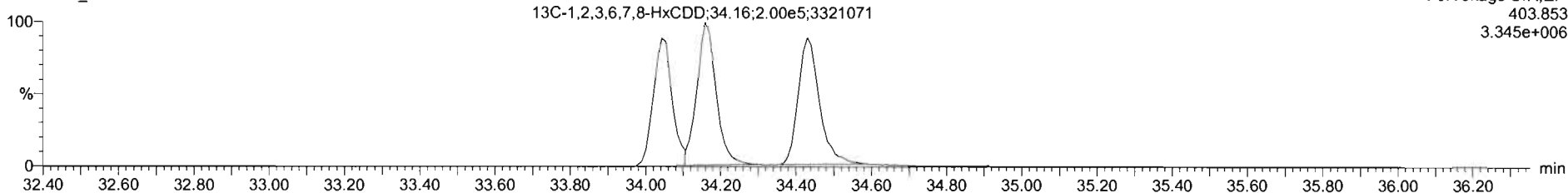
13C-1,2,3,4,7,8-HxCDD

201203R2_8



F3:Voltage SIR,EI+
401.856
4.449e+006

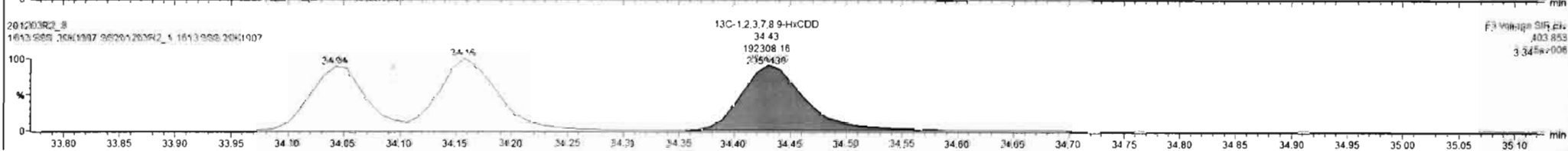
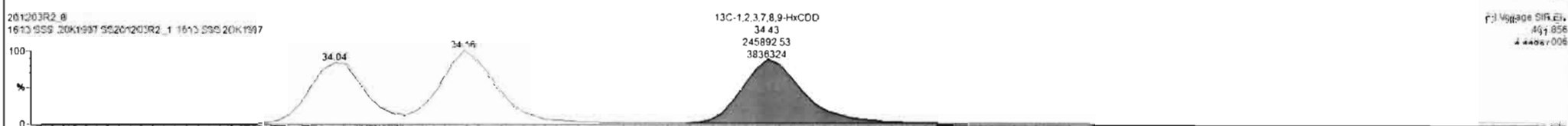
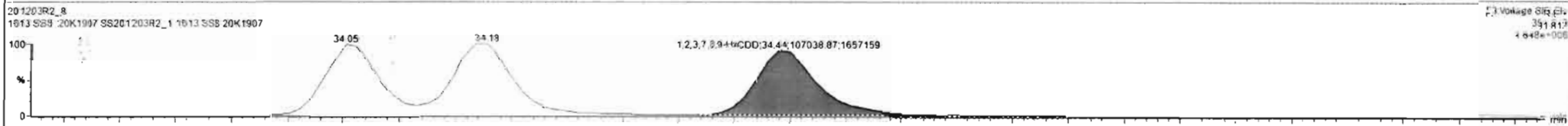
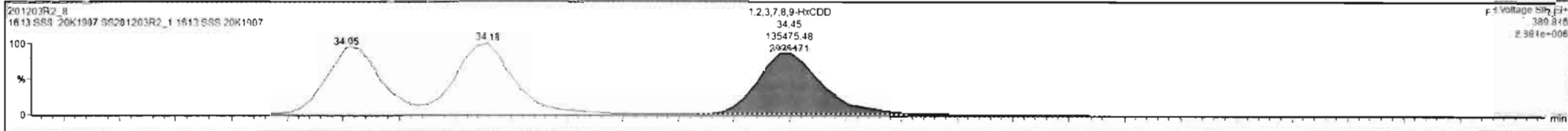
201203R2_8



F3:Voltage SIR,EI+
403.853
3.345e+006

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	0.208	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	30.16	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



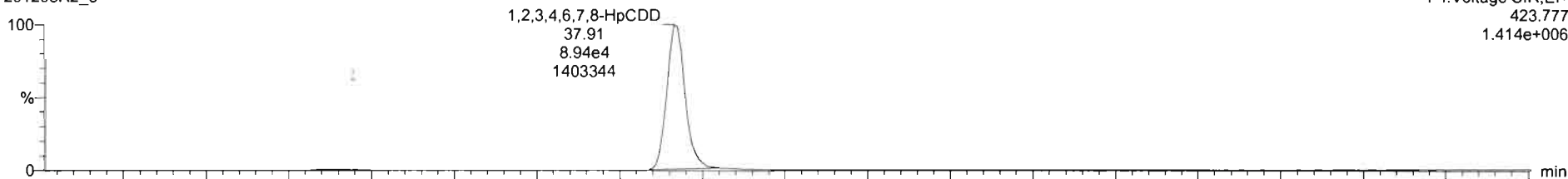
Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

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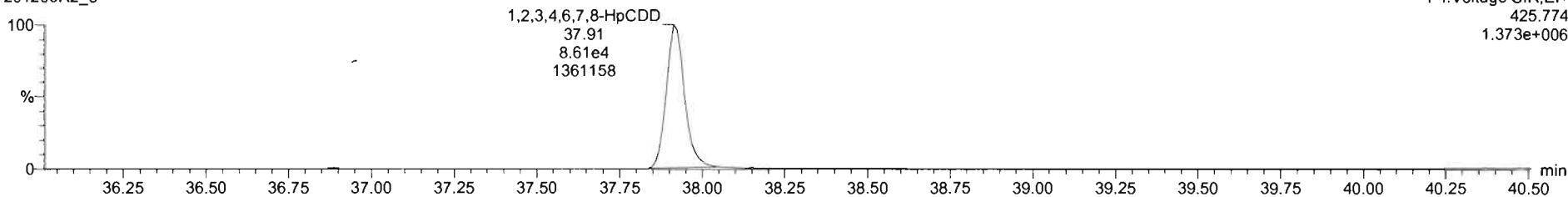
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1,2,3,4,6,7,8-HpCDD

201203R2_8

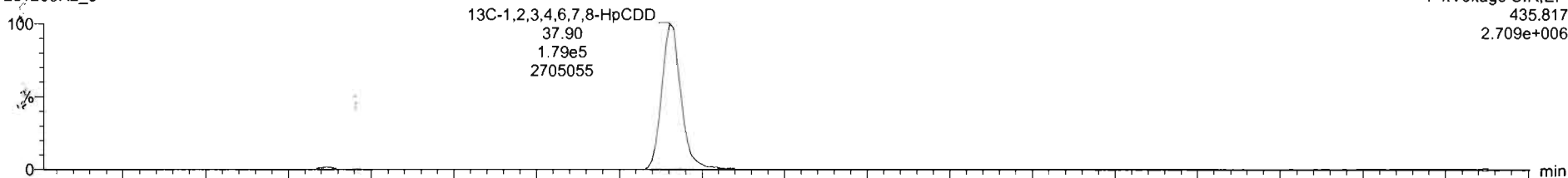


201203R2_8

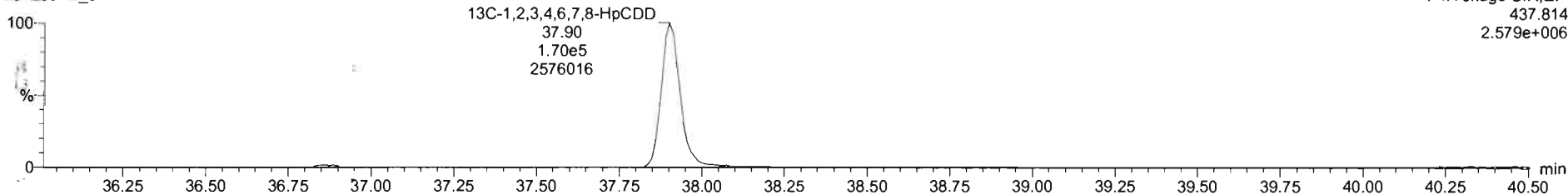


13C-1,2,3,4,6,7,8-HpCDD

201203R2_8



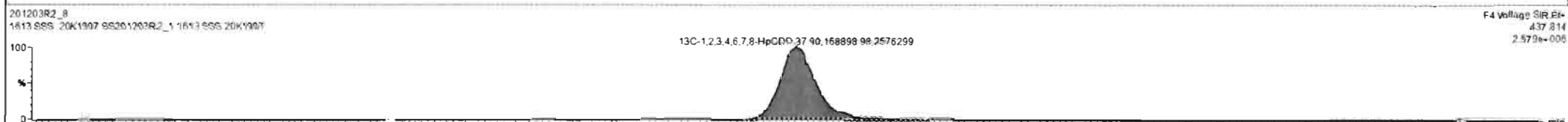
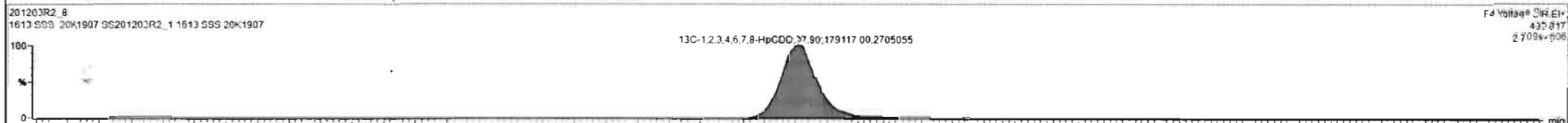
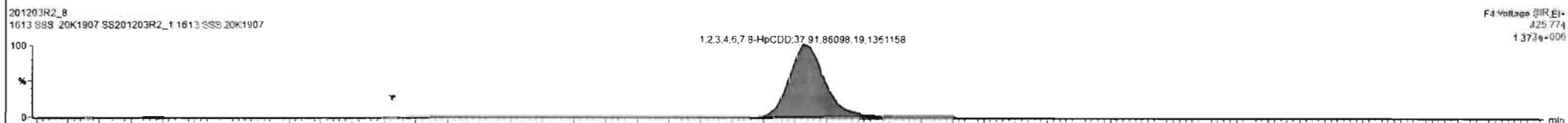
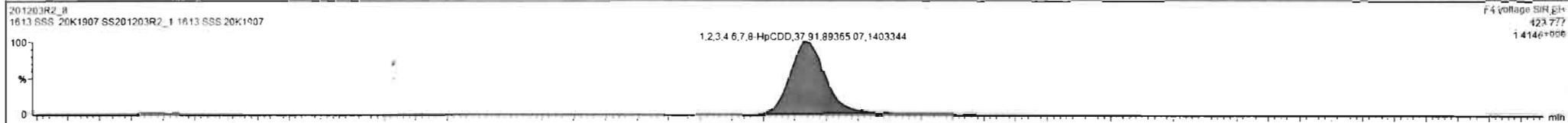
201203R2_8





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	0.0338	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	0.0323	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	1.0366	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



Repts: 201203R2_8 CAP NUM

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

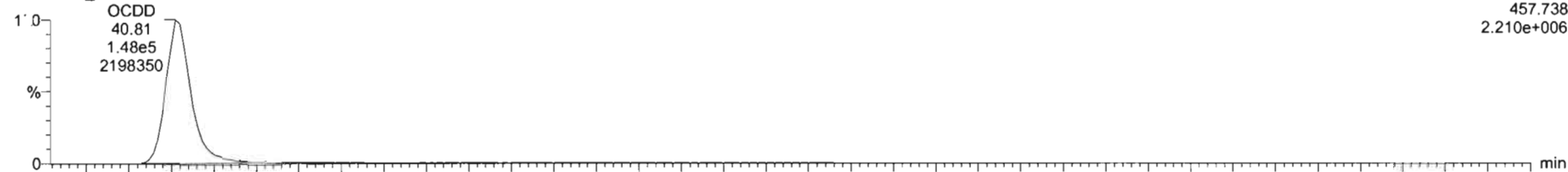
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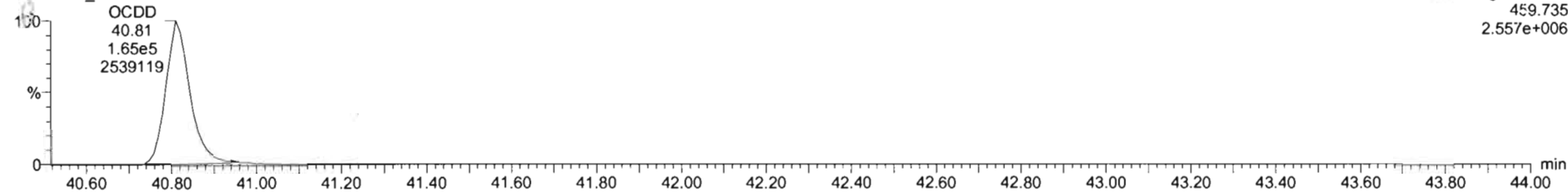
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OCDD

201203R2_8

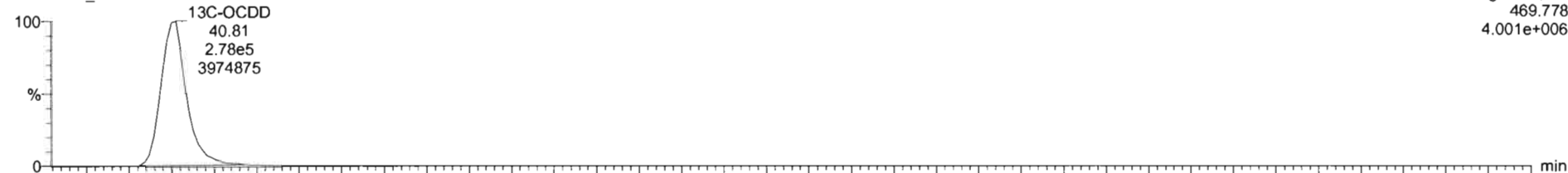


201203R2_8

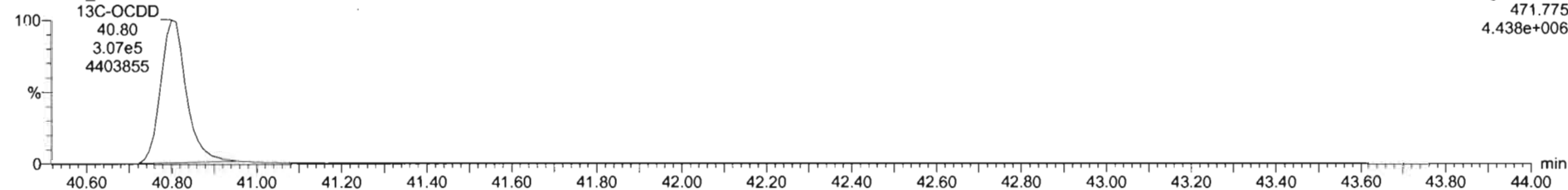


13C-OCDD

201203R2_8



201203R2_8



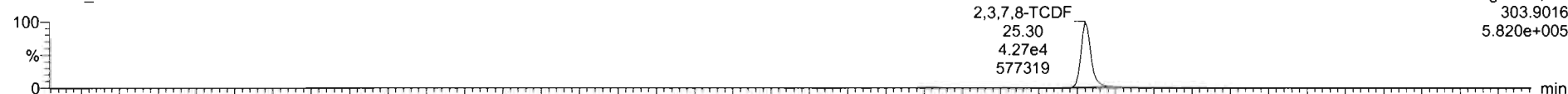
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Last Altered: Friday, December 04, 2020 11:47:08 Pacific Standard Time
Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

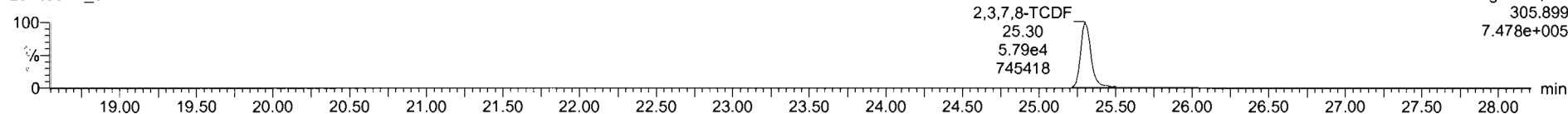
2,3,7,8-TCDF

201203R2_8



F1: Voltage SIR, EI+
303.9016
5.820e+005

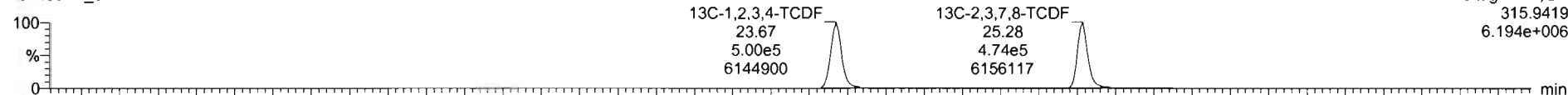
201203R2_8



F1: Voltage SIR, EI+
305.899
7.478e+005

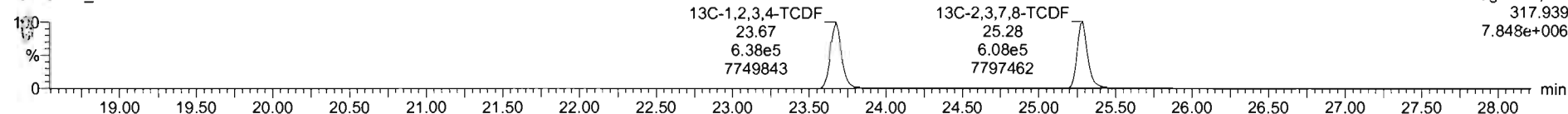
¹³C-2,3,7,8-TCDF

201203R2_8



F1: Voltage SIR, EI+
315.9419
6.194e+006

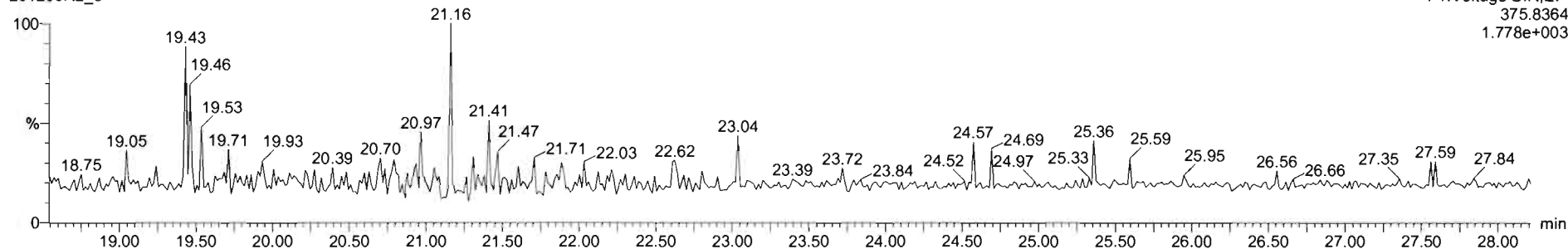
201203R2_8



F1: Voltage SIR, EI+
317.939
7.848e+006

DPE1

201203R2_8



F1: Voltage SIR, EI+
375.8364
1.778e+003

Dataset: U:\VG12.PRO\Results\201203R2\201203R2_8.qld

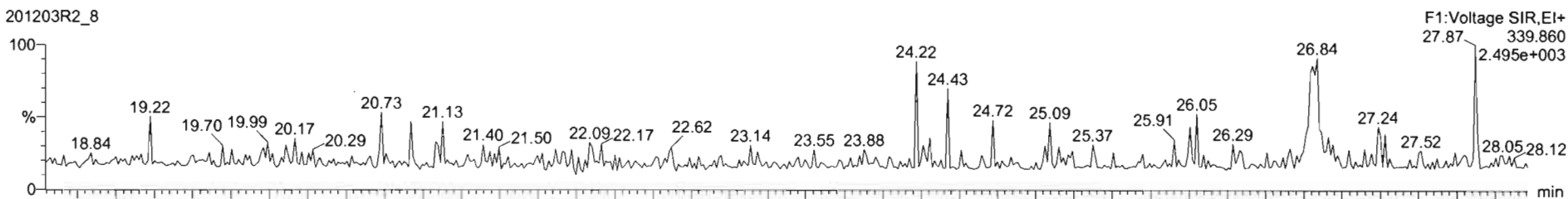
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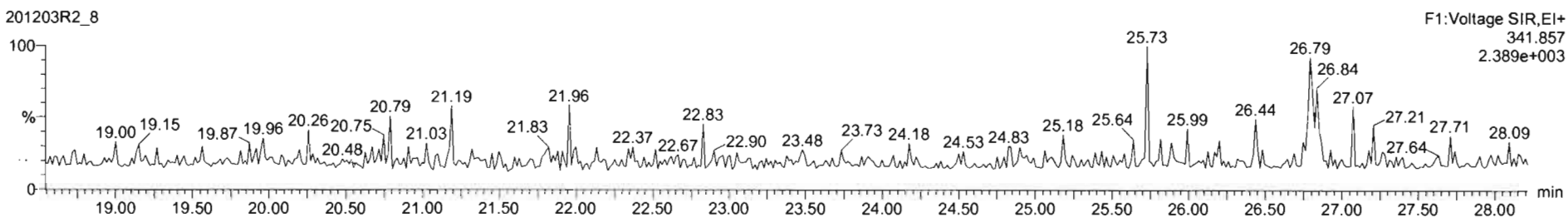
Name: 201203R2_8, Date: 03-Dec-2020, Time: 16:09:07, ID: SS201203R2_1 1613 SSS 20K1907, Description: 1613 SSS 20K1907

1st Func. Penta-Furans

201203R2_8

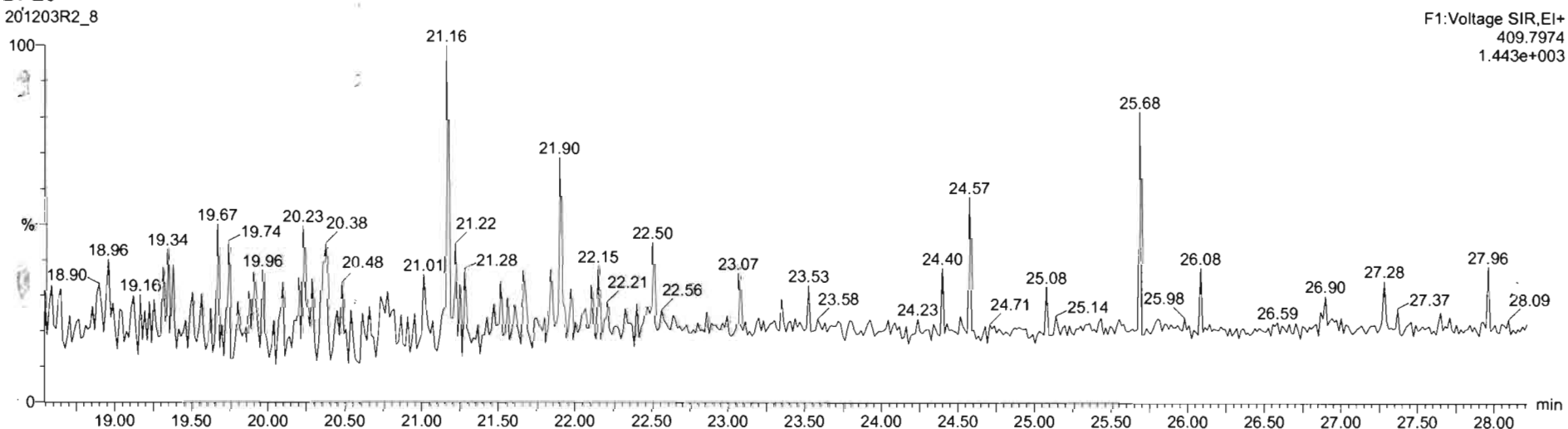


201203R2_8



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

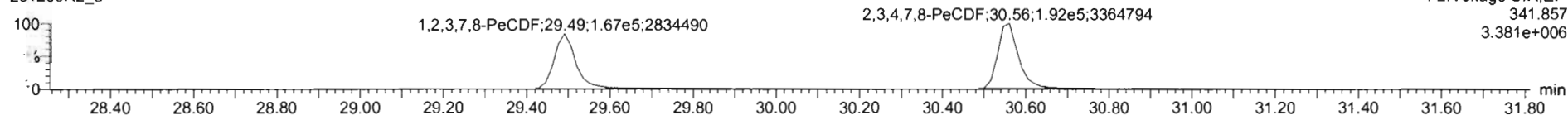
1,2,3,7,8-PeCDF

201203R2_8



F2: Voltage SIR, EI+
339.860
5.500e+006

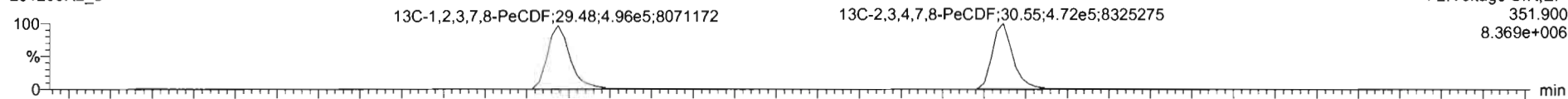
201203R2_8



F2: Voltage SIR, EI+
341.857
3.381e+006

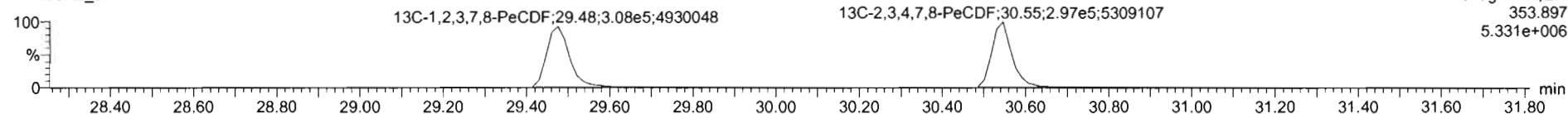
13C-1,2,3,7,8-PeCDF

201203R2_8



F2: Voltage SIR, EI+
351.900
8.369e+006

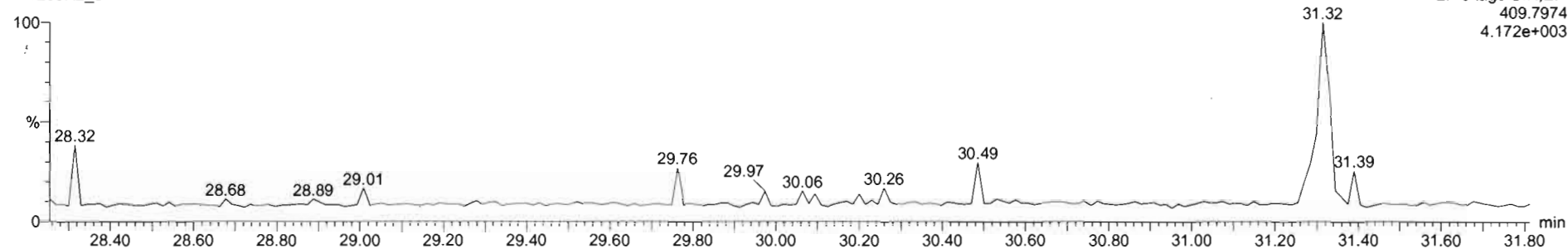
201203R2_8



F2: Voltage SIR, EI+
353.897
5.331e+006

DPE2

201203R2_8



F2: Voltage SIR, EI+
409.7974
4.172e+003

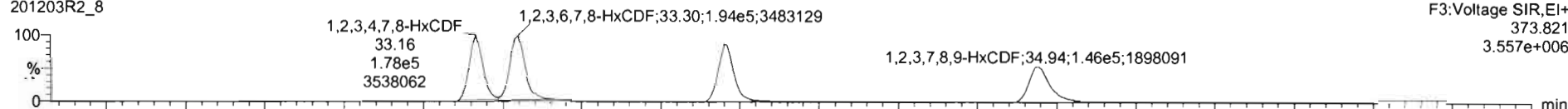
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Printed: Friday, December 04, 2020 11:48:25 Pacific Standard Time

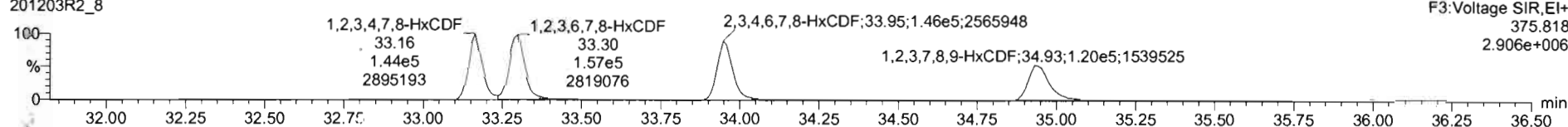
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1,2,3,4,7,8-HxCDF

201203R2_8

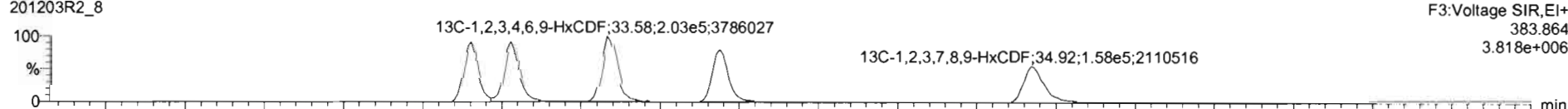


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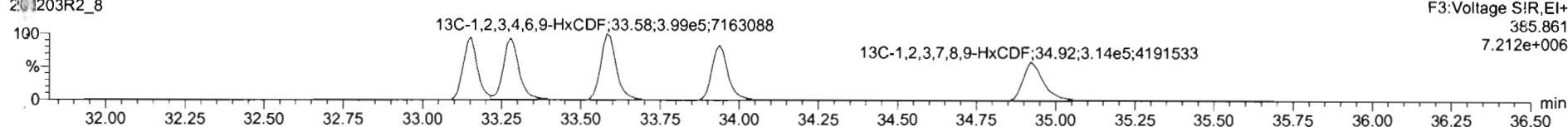


13C-1,2,3,4,7,8-HxCDF

201203R2_8

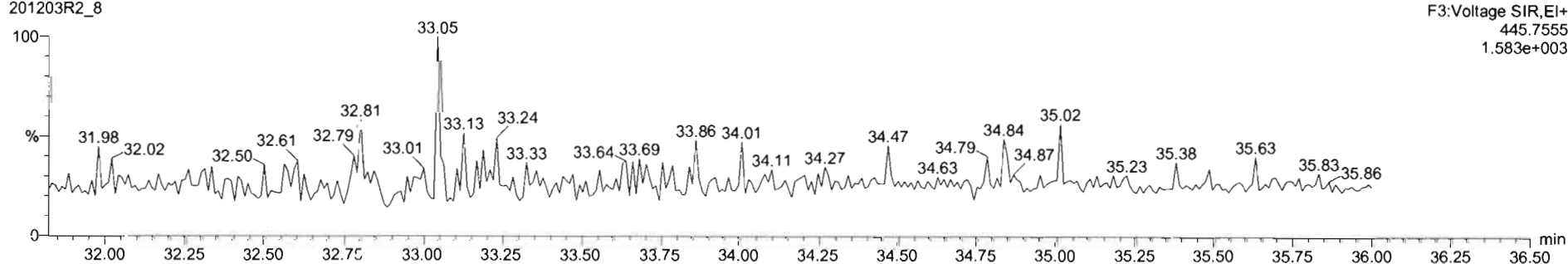


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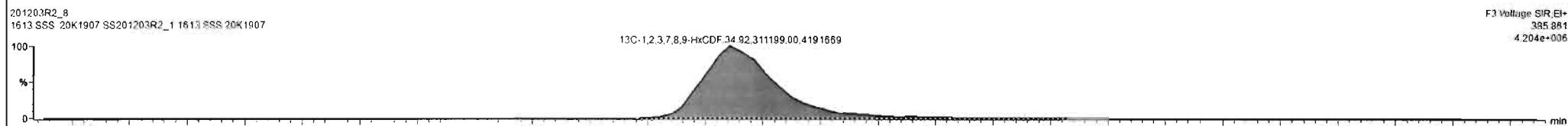
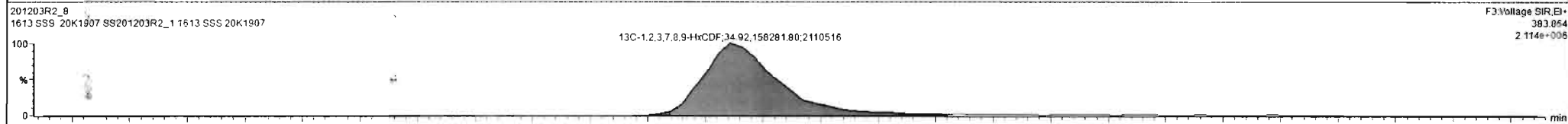
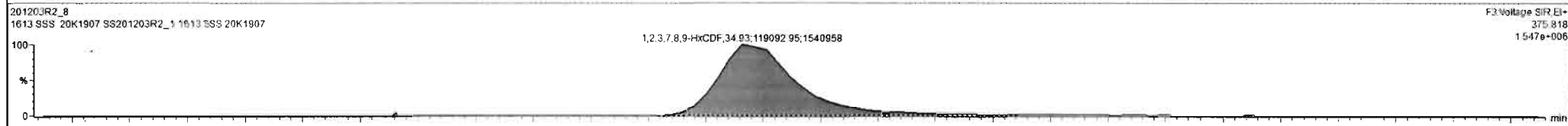
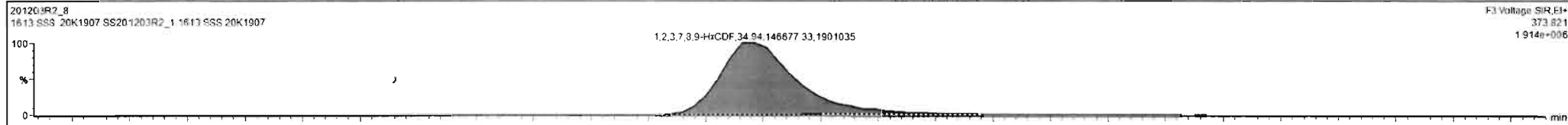
DPE3

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-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	0.125	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



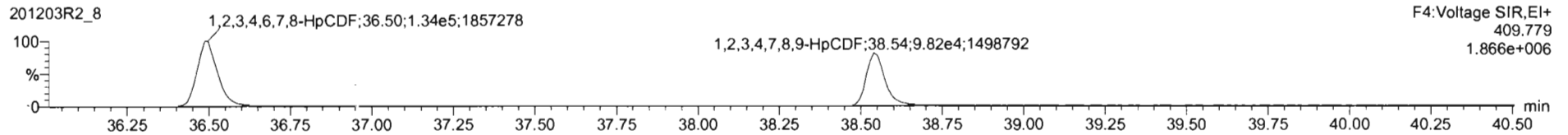
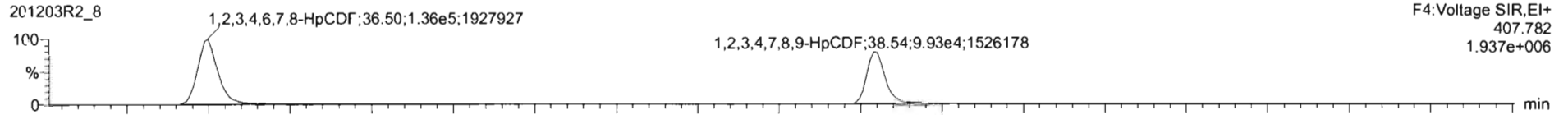
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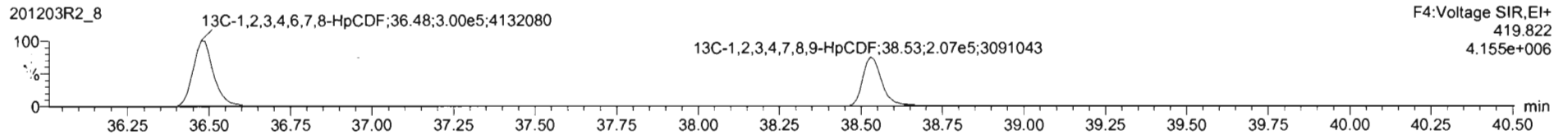
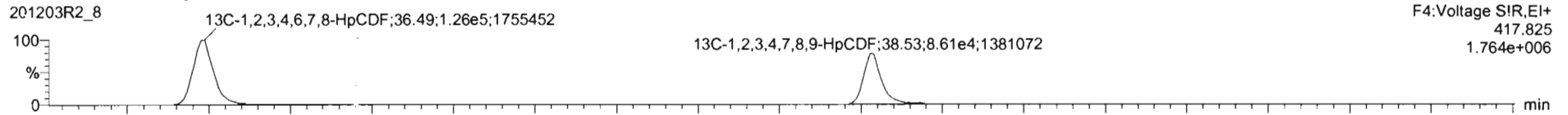
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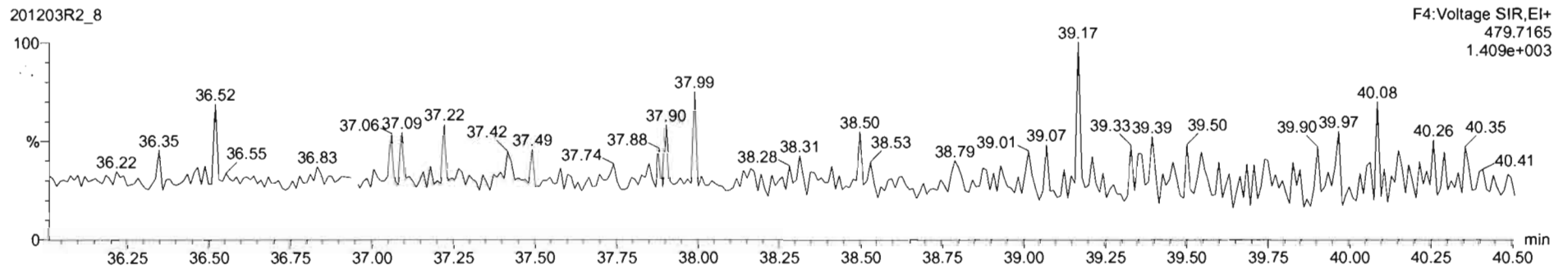
1,2,3,4,6,7,8-HpCDF



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



DPE4

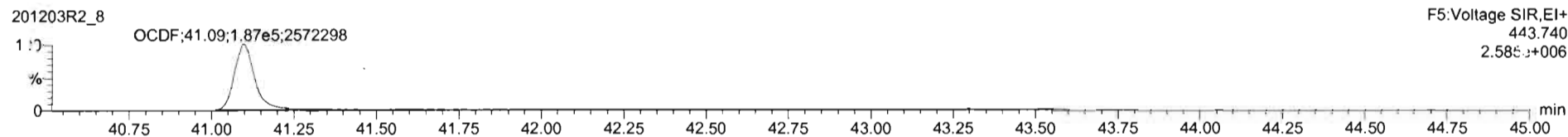
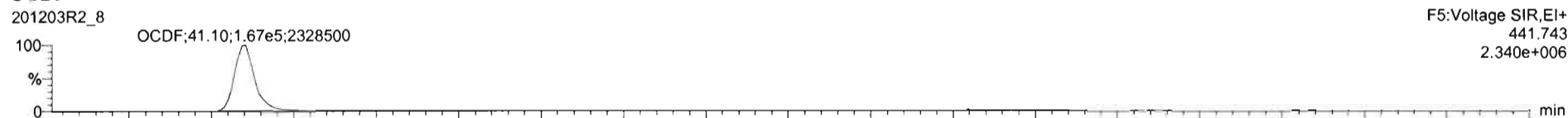


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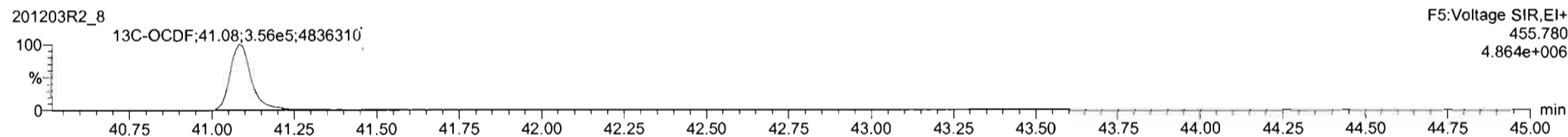
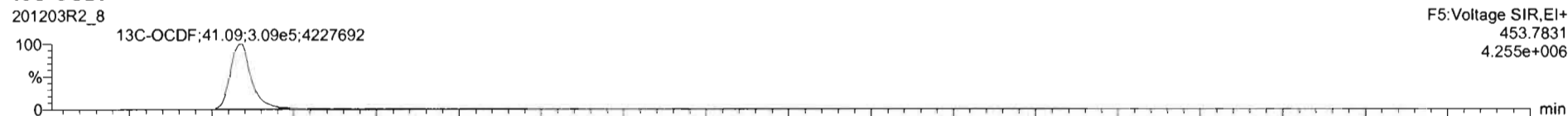
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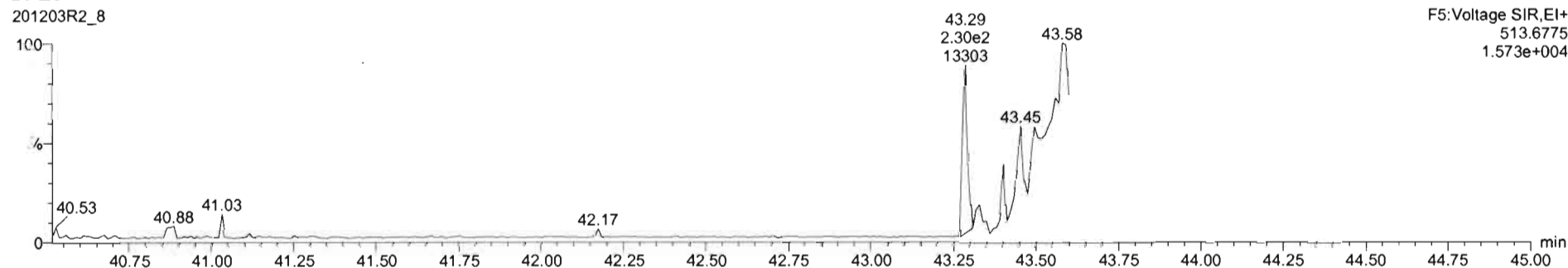
OCDF



13C-OCDF



DPE5



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