



March 12, 2020

Vista Work Order No. 1903738

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 October 18, 2019 under your Project Name 'Gasco PDI'.

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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Vista Work Order No. 1903738

Case Narrative

Sample Condition on Receipt:

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

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-5MS GC column.

Holding Times

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

Quality Control

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

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

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
1903738-01	PDI-059SC-B-00-02-191016	16-Oct-19 07:57	18-Oct-19 08:59	Amber Glass, 120 mL
1903738-02	PDI-059SC-B-02-04-191016	16-Oct-19 07:57	18-Oct-19 08:59	Amber Glass, 120 mL
1903738-03	PDI-059SC-B-04-06-191016	16-Oct-19 07:57	18-Oct-19 08:59	Amber Glass, 120 mL
1903738-04	PDI-059SC-B-06-08-191016	16-Oct-19 07:57	18-Oct-19 08:59	Amber Glass, 120 mL
1903738-05	PDI-069SC-B-00-02-191016	16-Oct-19 10:38	18-Oct-19 08:59	Amber Glass, 120 mL
1903738-06	PDI-069SC-B-02-04-191016	16-Oct-19 10:38	18-Oct-19 08:59	Amber Glass, 120 mL
1903738-07	PDI-069SC-B-04-06-191016	16-Oct-19 10:38	18-Oct-19 08:59	Amber Glass, 120 mL
1903738-08	PDI-069SC-B-06-08-191016	16-Oct-19 10:38	18-Oct-19 08:59	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04		Lab Sample: B0A0040-BLK1 Date Analyzed: 05-Feb-20 13:22 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.112			IS 13C-2,3,7,8-TCDD	89.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0736			13C-1,2,3,7,8-PeCDD	103	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0822			13C-1,2,3,4,7,8-HxCDD	79.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0781			13C-1,2,3,6,7,8-HxCDD	86.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0852			13C-1,2,3,7,8,9-HxCDD	85.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.147			13C-1,2,3,4,6,7,8-HpCDD	99.6	23 - 140	
OCDD	ND		0.494		13C-OCDD	101	17 - 157	
2,3,7,8-TCDF	ND	0.0917			13C-2,3,7,8-TCDF	81.3	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0519			13C-1,2,3,7,8-PeCDF	94.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0500			13C-2,3,4,7,8-PeCDF	91.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0566			13C-1,2,3,4,7,8-HxCDF	105	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0615			13C-1,2,3,6,7,8-HxCDF	97.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0679			13C-2,3,4,6,7,8-HxCDF	92.9	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0453		13C-1,2,3,7,8,9-HxCDF	93.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.102			13C-1,2,3,4,6,7,8-HpCDF	112	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.115			13C-1,2,3,4,7,8,9-HpCDF	107	26 - 138	
OCDF	ND	0.267			13C-OCDF	112	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	87.5	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.00			
TOTALS								
Total TCDD	ND	0.112						
Total PeCDD	ND	0.0736						
Total HxCDD	ND	0.0852						
Total HpCDD	ND	0.147						
Total TCDF	ND	0.0917						
Total PeCDF	ND	0.0519						
Total HxCDF	0.0617		0.107					
Total HpCDF	ND	0.115						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04		Lab Sample: B0A0040-BS1 Date Analyzed: 05-Feb-20 10:41 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	16.9	20.0	84.3	67 - 158	IS 13C-2,3,7,8-TCDD	84.7	20 - 175
1,2,3,7,8-PeCDD	84.9	100	84.9	70 - 142	13C-1,2,3,7,8-PeCDD	92.8	21 - 227
1,2,3,4,7,8-HxCDD	86.0	100	86.0	70 - 164	13C-1,2,3,4,7,8-HxCDD	84.1	21 - 193
1,2,3,6,7,8-HxCDD	91.7	100	91.7	76 - 134	13C-1,2,3,6,7,8-HxCDD	86.0	25 - 163
1,2,3,7,8,9-HxCDD	89.7	100	89.7	64 - 162	13C-1,2,3,7,8,9-HxCDD	88.8	21 - 193
1,2,3,4,6,7,8-HpCDD	88.0	100	88.0	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	93.9	26 - 166
OCDD	173	200	86.7	78 - 144	13C-OCDD	76.0	13 - 199
2,3,7,8-TCDF	17.8	20.0	88.8	75 - 158	13C-2,3,7,8-TCDF	81.0	22 - 152
1,2,3,7,8-PeCDF	86.6	100	86.6	80 - 134	13C-1,2,3,7,8-PeCDF	91.1	21 - 192
2,3,4,7,8-PeCDF	86.4	100	86.4	68 - 160	13C-2,3,4,7,8-PeCDF	90.0	13 - 328
1,2,3,4,7,8-HxCDF	93.2	100	93.2	72 - 134	13C-1,2,3,4,7,8-HxCDF	85.6	19 - 202
1,2,3,6,7,8-HxCDF	92.2	100	92.2	84 - 130	13C-1,2,3,6,7,8-HxCDF	86.1	21 - 159
2,3,4,6,7,8-HxCDF	92.4	100	92.4	70 - 156	13C-2,3,4,6,7,8-HxCDF	80.5	22 - 176
1,2,3,7,8,9-HxCDF	88.6	100	88.6	78 - 130	13C-1,2,3,7,8,9-HxCDF	86.7	17 - 205
1,2,3,4,6,7,8-HpCDF	91.9	100	91.9	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	85.4	21 - 158
1,2,3,4,7,8,9-HpCDF	93.4	100	93.4	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	84.7	20 - 186
OCDF	184	200	91.9	63 - 170	13C-OCDF	75.1	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	77.3	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-059SC-B-00-02-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903738-01 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 18.8 g	QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04
Date Collected: 16-Oct-2019 7:57	% Solids: 53.2	Date Analyzed : 09-Feb-20 21:33 Column: ZB-5MS 11-Mar-20 10:13 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.497			J	IS 13C-2,3,7,8-TCDD	100	25 - 164	
1,2,3,7,8-PeCDD	0.763			J	13C-1,2,3,7,8-PeCDD	95.5	25 - 181	
1,2,3,4,7,8-HxCDD	1.23			J	13C-1,2,3,4,7,8-HxCDD	81.1	32 - 141	
1,2,3,6,7,8-HxCDD	5.40				13C-1,2,3,6,7,8-HxCDD	77.2	28 - 130	
1,2,3,7,8,9-HxCDD	2.65				13C-1,2,3,7,8,9-HxCDD	80.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	125				13C-1,2,3,4,6,7,8-HpCDD	85.9	23 - 140	
OCDD	977				13C-OCDD	71.9	17 - 157	
2,3,7,8-TCDF	16.9				13C-2,3,7,8-TCDF	94.2	24 - 169	
1,2,3,7,8-PeCDF	16.9				13C-1,2,3,7,8-PeCDF	78.8	24 - 185	
2,3,4,7,8-PeCDF	8.81				13C-2,3,4,7,8-PeCDF	79.1	21 - 178	
1,2,3,4,7,8-HxCDF	28.6				13C-1,2,3,4,7,8-HxCDF	88.3	26 - 152	
1,2,3,6,7,8-HxCDF	8.41				13C-1,2,3,6,7,8-HxCDF	82.8	26 - 123	
2,3,4,6,7,8-HxCDF	3.11				13C-2,3,4,6,7,8-HxCDF	87.9	28 - 136	
1,2,3,7,8,9-HxCDF	2.08			J	13C-1,2,3,7,8,9-HxCDF	89.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	29.9				13C-1,2,3,4,6,7,8-HpCDF	89.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	6.26				13C-1,2,3,4,7,8,9-HpCDF	93.2	26 - 138	
OCDF	74.5				13C-OCDF	75.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	99.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 13.2

TOTALS								
Total TCDD	9.44		9.92					
Total PeCDD	8.62		9.84					
Total HxCDD	52.0							
Total HpCDD	298							
Total TCDF	60.9		62.8					
Total PeCDF	57.2		59.0					
Total HxCDF	78.9		79.0	B				
Total HpCDF	104							

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: PDI-059SC-B-02-04-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903738-02 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 12.6 g	QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04
Date Collected: 16-Oct-2019 7:57	% Solids: 79.7	Date Analyzed : 11-Feb-20 22:14 Column: ZB-5MS 11-Mar-20 10:44 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0876			IS 13C-2,3,7,8-TCDD	88.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.131			13C-1,2,3,7,8-PeCDD	71.3	25 - 181	
1,2,3,4,7,8-HxCDD	1.06			J	13C-1,2,3,4,7,8-HxCDD	62.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0935			13C-1,2,3,6,7,8-HxCDD	61.9	28 - 130	
1,2,3,7,8,9-HxCDD	0.438			J	13C-1,2,3,7,8,9-HxCDD	58.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	46.4				13C-1,2,3,4,6,7,8-HpCDD	57.8	23 - 140	
OCDD	457				13C-OCDD	35.8	17 - 157	
2,3,7,8-TCDF	1.79				13C-2,3,7,8-TCDF	83.4	24 - 169	
1,2,3,7,8-PeCDF	2.30			J	13C-1,2,3,7,8-PeCDF	69.6	24 - 185	
2,3,4,7,8-PeCDF	0.407			J	13C-2,3,4,7,8-PeCDF	64.1	21 - 178	
1,2,3,4,7,8-HxCDF	4.15				13C-1,2,3,4,7,8-HxCDF	71.6	26 - 152	
1,2,3,6,7,8-HxCDF	1.02			J	13C-1,2,3,6,7,8-HxCDF	69.7	26 - 123	
2,3,4,6,7,8-HxCDF	0.487			J	13C-2,3,4,6,7,8-HxCDF	60.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.159			J	13C-1,2,3,7,8,9-HxCDF	65.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	6.63				13C-1,2,3,4,6,7,8-HpCDF	58.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	1.03			J	13C-1,2,3,4,7,8,9-HpCDF	56.2	26 - 138	
OCDF	22.8				13C-OCDF	37.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.4	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 1.79

TOTALS								
Total TCDD	0.242							
Total PeCDD	ND		0.318					
Total HxCDD	13.0							
Total HpCDD	113							
Total TCDF	7.42							
Total PeCDF	8.61		8.73					
Total HxCDF	12.2			B				
Total HpCDF	26.3							

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: PDI-059SC-B-04-06-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903738-03 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 13.9 g	QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04
Date Collected: 16-Oct-2019 7:57	% Solids: 72.4	Date Analyzed : 11-Feb-20 23:02 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0531			IS 13C-2,3,7,8-TCDD	92.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0623			13C-1,2,3,7,8-PeCDD	82.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0565			13C-1,2,3,4,7,8-HxCDD	80.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0579			13C-1,2,3,6,7,8-HxCDD	81.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0646			13C-1,2,3,7,8,9-HxCDD	82.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.419			J	13C-1,2,3,4,6,7,8-HpCDD	94.3	23 - 140	
OCDD	3.73			J	13C-OCDD	75.7	17 - 157	
2,3,7,8-TCDF	ND	0.0403			13C-2,3,7,8-TCDF	87.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0322			13C-1,2,3,7,8-PeCDF	76.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0293			13C-2,3,4,7,8-PeCDF	76.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0346			13C-1,2,3,4,7,8-HxCDF	89.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0350			13C-1,2,3,6,7,8-HxCDF	87.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0372			13C-2,3,4,6,7,8-HxCDF	89.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0768		13C-1,2,3,7,8,9-HxCDF	93.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0850			13C-1,2,3,4,6,7,8-HpCDF	90.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0943			13C-1,2,3,4,7,8,9-HpCDF	89.1	26 - 138	
OCDF	ND	0.0846			13C-OCDF	79.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	93.9	35 - 197	

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

TEQMinWHO2005Dioxin 0.00531

TOTALS		
Total TCDD	0.333	
Total PeCDD	ND	0.122
Total HxCDD	0.519	
Total HpCDD	1.17	
Total TCDF	ND	0.0852
Total PeCDF	ND	0.0322
Total HxCDF	ND	0.0768
Total HpCDF	ND	0.0943

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: PDI-059SC-B-06-08-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903738-04 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 14.5 g	QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04
Date Collected: 16-Oct-2019 7:57	% Solids: 69.3	Date Analyzed: 11-Feb-20 23:49 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0506			IS 13C-2,3,7,8-TCDD	101	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0726			13C-1,2,3,7,8-PeCDD	90.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0614			13C-1,2,3,4,7,8-HxCDD	90.8	32 - 141	
1,2,3,6,7,8-HxCDD	0.0602			J	13C-1,2,3,6,7,8-HxCDD	87.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.106			J	13C-1,2,3,7,8,9-HxCDD	91.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.01			J	13C-1,2,3,4,6,7,8-HpCDD	108	23 - 140	
OCDD	9.98				13C-OCDD	91.9	17 - 157	
2,3,7,8-TCDF	ND	0.0345			13C-2,3,7,8-TCDF	96.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0471			13C-1,2,3,7,8-PeCDF	84.3	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0444			13C-2,3,4,7,8-PeCDF	82.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0390			13C-1,2,3,4,7,8-HxCDF	102	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0398			13C-1,2,3,6,7,8-HxCDF	96.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0406			13C-2,3,4,6,7,8-HxCDF	98.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0459		13C-1,2,3,7,8,9-HxCDF	97.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0664			13C-1,2,3,4,6,7,8-HpCDF	101	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0762			13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	0.100			J	13C-OCDF	92.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	98.2	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0297

TOTALS								
Total TCDD	0.358		0.399					
Total PeCDD	0.145							
Total HxCDD	1.39							
Total HpCDD	3.33							
Total TCDF	0.0490							
Total PeCDF	ND	0.0471						
Total HxCDF	ND		0.0817					
Total HpCDF	ND	0.0762						

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: PDI-069SC-B-00-02-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903738-05 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 17.3 g	QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04
Date Collected: 16-Oct-2019 10:38	% Solids: 58.3	Date Analyzed : 11-Mar-20 11:14 Column: DB-225 12-Feb-20 22:08 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	2.02				IS 13C-2,3,7,8-TCDD	82.5	25 - 164	
1,2,3,7,8-PeCDD	3.42				13C-1,2,3,7,8-PeCDD	73.0	25 - 181	
1,2,3,4,7,8-HxCDD	3.78				13C-1,2,3,4,7,8-HxCDD	37.9	32 - 141	
1,2,3,6,7,8-HxCDD	23.4				13C-1,2,3,6,7,8-HxCDD	44.1	28 - 130	
1,2,3,7,8,9-HxCDD	8.99				13C-1,2,3,7,8,9-HxCDD	44.2	32 - 141	
1,2,3,4,6,7,8-HpCDD	949				13C-1,2,3,4,6,7,8-HpCDD	72.5	23 - 140	
OCDD	11900			D	13C-OCDD	55.0	17 - 157	D
2,3,7,8-TCDF	282				13C-2,3,7,8-TCDF	83.7	24 - 169	
1,2,3,7,8-PeCDF	417				13C-1,2,3,7,8-PeCDF	44.7	24 - 185	
2,3,4,7,8-PeCDF	241				13C-2,3,4,7,8-PeCDF	67.8	21 - 178	
1,2,3,4,7,8-HxCDF	753				13C-1,2,3,4,7,8-HxCDF	73.8	26 - 152	
1,2,3,6,7,8-HxCDF	226				13C-1,2,3,6,7,8-HxCDF	69.1	26 - 123	
2,3,4,6,7,8-HxCDF	49.9				13C-2,3,4,6,7,8-HxCDF	51.4	28 - 136	
1,2,3,7,8,9-HxCDF	34.4				13C-1,2,3,7,8,9-HxCDF	58.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	406				13C-1,2,3,4,6,7,8-HpCDF	72.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	136				13C-1,2,3,4,7,8,9-HpCDF	73.9	26 - 138	
OCDF	911				13C-OCDF	64.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	83.3	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 247

TOTALS								
Total TCDD	19.6		21.7					
Total PeCDD	25.9		26.5					
Total HxCDD	334							
Total HpCDD	2210							
Total TCDF	947		977					
Total PeCDF	1250		1260					
Total HxCDF	1370		1420	B				
Total HpCDF	1110							

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: PDI-069SC-B-02-04-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903738-06 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 16.9 g	QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04
Date Collected: 16-Oct-2019 10:38	% Solids: 59.1	Date Analyzed : 11-Mar-20 11:45 Column: DB-225 12-Feb-20 21:20 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.987				IS 13C-2,3,7,8-TCDD	84.0	25 - 164	
1,2,3,7,8-PeCDD	1.71			J	13C-1,2,3,7,8-PeCDD	76.6	25 - 181	
1,2,3,4,7,8-HxCDD	2.10			J	13C-1,2,3,4,7,8-HxCDD	70.1	32 - 141	
1,2,3,6,7,8-HxCDD	13.4				13C-1,2,3,6,7,8-HxCDD	70.2	28 - 130	
1,2,3,7,8,9-HxCDD	5.68				13C-1,2,3,7,8,9-HxCDD	69.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	512				13C-1,2,3,4,6,7,8-HpCDD	78.1	23 - 140	
OCDD	7450			D	13C-OCDD	60.9	17 - 157	D
2,3,7,8-TCDF	148				13C-2,3,7,8-TCDF	81.1	24 - 169	
1,2,3,7,8-PeCDF	257				13C-1,2,3,7,8-PeCDF	74.8	24 - 185	
2,3,4,7,8-PeCDF	101				13C-2,3,4,7,8-PeCDF	72.5	21 - 178	
1,2,3,4,7,8-HxCDF	483				13C-1,2,3,4,7,8-HxCDF	77.6	26 - 152	
1,2,3,6,7,8-HxCDF	134				13C-1,2,3,6,7,8-HxCDF	72.7	26 - 123	
2,3,4,6,7,8-HxCDF	33.8				13C-2,3,4,6,7,8-HxCDF	73.2	28 - 136	
1,2,3,7,8,9-HxCDF	23.8				13C-1,2,3,7,8,9-HxCDF	75.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	315				13C-1,2,3,4,6,7,8-HpCDF	75.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	93.9				13C-1,2,3,4,7,8,9-HpCDF	76.5	26 - 138	
OCDF	571				13C-OCDF	67.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	86.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 137

TOTALS								
Total TCDD	14.5		14.8					
Total PeCDD	19.1							
Total HxCDD	128							
Total HpCDD	1170							
Total TCDF	434		451					
Total PeCDF	741							
Total HxCDF	920			B				
Total HpCDF	806							

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: PDI-069SC-B-04-06-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903738-07 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 17.0 g	QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04
Date Collected: 16-Oct-2019 10:38	% Solids: 59.0	Date Analyzed : 11-Mar-20 12:15 Column: DB-225 13-Feb-20 00:29 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	1.99				IS 13C-2,3,7,8-TCDD	61.9	25 - 164	
1,2,3,7,8-PeCDD	3.14				13C-1,2,3,7,8-PeCDD	58.7	25 - 181	
1,2,3,4,7,8-HxCDD	10.1				13C-1,2,3,4,7,8-HxCDD	53.5	32 - 141	
1,2,3,6,7,8-HxCDD	101				13C-1,2,3,6,7,8-HxCDD	51.8	28 - 130	
1,2,3,7,8,9-HxCDD	27.4				13C-1,2,3,7,8,9-HxCDD	52.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	10100			D	13C-1,2,3,4,6,7,8-HpCDD	45.8	23 - 140	D
OCDD	67000			D	13C-OCDD	37.9	17 - 157	D
2,3,7,8-TCDF	58.0				13C-2,3,7,8-TCDF	57.6	24 - 169	
1,2,3,7,8-PeCDF	87.3				13C-1,2,3,7,8-PeCDF	57.9	24 - 185	
2,3,4,7,8-PeCDF	33.5				13C-2,3,4,7,8-PeCDF	55.4	21 - 178	
1,2,3,4,7,8-HxCDF	162				13C-1,2,3,4,7,8-HxCDF	58.9	26 - 152	
1,2,3,6,7,8-HxCDF	42.7				13C-1,2,3,6,7,8-HxCDF	55.2	26 - 123	
2,3,4,6,7,8-HxCDF	13.2				13C-2,3,4,6,7,8-HxCDF	53.0	28 - 136	
1,2,3,7,8,9-HxCDF	9.10				13C-1,2,3,7,8,9-HxCDF	54.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	360				13C-1,2,3,4,6,7,8-HpCDF	56.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	46.8				13C-1,2,3,4,7,8,9-HpCDF	56.8	26 - 138	
OCDF	2280				13C-OCDF	41.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	63.3	35 - 197	

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

TEQMinWHO2005Dioxin 186

TOTALS								
Total TCDD	46.9		48.5					
Total PeCDD	83.7							
Total HxCDD	1670							
Total HpCDD	21600							
Total TCDF	185		193					
Total PeCDF	285							
Total HxCDF	515			B				
Total HpCDF	2160							

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: PDI-069SC-B-06-08-191016 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 1903738-08 Date Received: 18-Oct-2019 8:59
Project: Gasco PDI	Sample Size: 16.4 g	QC Batch: B0A0040 Date Extracted: 08-Jan-2020 7:04
Date Collected: 16-Oct-2019 10:38	% Solids: 61.1	Date Analyzed : 11-Mar-20 12:46 Column: DB-225 12-Feb-20 22:55 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		1.26		IS 13C-2,3,7,8-TCDD	37.1	25 - 164	
1,2,3,7,8-PeCDD	2.65				13C-1,2,3,7,8-PeCDD	48.3	25 - 181	
1,2,3,4,7,8-HxCDD	11.9				13C-1,2,3,4,7,8-HxCDD	40.7	32 - 141	
1,2,3,6,7,8-HxCDD	78.0				13C-1,2,3,6,7,8-HxCDD	32.9	28 - 130	
1,2,3,7,8,9-HxCDD	20.3				13C-1,2,3,7,8,9-HxCDD	37.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	5390			D	13C-1,2,3,4,6,7,8-HpCDD	38.1	23 - 140	D
OCDD	35200			D	13C-OCDD	28.5	17 - 157	D
2,3,7,8-TCDF	27.8				13C-2,3,7,8-TCDF	35.7	24 - 169	
1,2,3,7,8-PeCDF	34.2				13C-1,2,3,7,8-PeCDF	47.0	24 - 185	
2,3,4,7,8-PeCDF	30.4				13C-2,3,4,7,8-PeCDF	43.8	21 - 178	
1,2,3,4,7,8-HxCDF	50.6				13C-1,2,3,4,7,8-HxCDF	44.1	26 - 152	
1,2,3,6,7,8-HxCDF	12.9				13C-1,2,3,6,7,8-HxCDF	42.0	26 - 123	
2,3,4,6,7,8-HxCDF	8.96				13C-2,3,4,6,7,8-HxCDF	39.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND		1.24		13C-1,2,3,7,8,9-HxCDF	39.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	209				13C-1,2,3,4,6,7,8-HpCDF	43.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	18.6				13C-1,2,3,4,7,8,9-HpCDF	42.3	26 - 138	
OCDF	1140				13C-OCDF	31.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	35.8	35 - 197	

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

TEQMinWHO2005Dioxin 101

TOTALS								
Total TCDD	31.8		34.5					
Total PeCDD	61.3		63.2					
Total HxCDD	1280							
Total HpCDD	12000							
Total TCDF	136		137					
Total PeCDF	196							
Total HxCDF	268		275	B				
Total HpCDF	1110							

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

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

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
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)
*	See Cover Letter

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

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	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

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

Project: Gasco PDI
Client: NW Natural

1903738
 1.4°C
 3.6°C

COC ID: VIST1-20191016-143858
Sample Custodian: CO, SN, BJ, DL
Lab: VISTA - Archive

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-059SC-B-00-02-191016	N	SE	10/16/2019	7:57	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
002	PDI-059SC-B-02-04-191016	N	SE	10/16/2019	7:57	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
003	PDI-059SC-B-04-06-191016	N	SE	10/16/2019	7:57	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
004	PDI-059SC-B-06-08-191016	N	SE	10/16/2019	7:57	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
005	PDI-069SC-B-00-02-191016	N	SE	10/16/2019	10:38	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
006	PDI-069SC-B-02-04-191016	N	SE	10/16/2019	10:38	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
007	PDI-069SC-B-04-06-191016	N	SE	10/16/2019	10:38	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C
008	PDI-069SC-B-06-08-191016	N	SE	10/16/2019	10:38	1	<input type="checkbox"/>	Archive (VISTA)	ARCHIVE	-1	-10°C

Comment:

Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

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

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903738 TAT std

Samples Arrival:	Date/Time <u>10/18/19 0859</u>		Initials: <u>WJS</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>N/A</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<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"/> Dry Ice		<input type="checkbox"/> None
Temp °C:	<u>3.6</u> (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/> N			Thermometer ID: <u>IR-3</u>		
Temp °C:	<u>3.6</u> (corrected)						

	YES	NO	NA				
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Airbill <u>1 of 2</u> Trk # <u>7767 5105 6110</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain				
	<input type="checkbox"/>	<input checked="" type="checkbox"/> Return	<input type="checkbox"/> Dispose				
Chain of Custody / Sample Documentation Present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Chain of Custody / Sample Documentation Complete?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				
Logged In:	Date/Time <u>10/21/19 1430</u>		Initials: <u>WJS</u>		Location: <u>WF-2</u>		
	Shelf/Rack: <u>D-1</u>						
COC Anomaly/Sample Acceptance Form completed?				<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Comments:

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 1903738 TAT std

Samples Arrival:	Date/Time 10/18/19 0859	Initials: ajm	Location: WR-2				
			Shelf/Rack: N/A				
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GSO	<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"/> Dry Ice		<input type="checkbox"/> None	
Temp °C: 1.4 (uncorrected)	Probe used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N			Thermometer ID: IR-3			
Temp °C: 1.4 (corrected)							

	YES	NO	NA		
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Airbill <u>2 of 2</u> Trk # <u>7767 5105 6371</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Shipping Container	<input checked="" type="checkbox"/> Vista	<input type="checkbox"/> Client	<input checked="" type="checkbox"/> Retain	<input type="checkbox"/> Return	<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Logged In:	Date/Time 10/21/19 1430	Initials: WWS	Location: WF-2		
			Shelf/Rack: D-1		
COC Anomaly/Sample Acceptance Form completed?			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 1903738

LabNumber	CoC Sample ID	Label ID matches COCID	Label ID doesn't match COCID	SampleAlias	Sampled	Label Sampled matches	Sampled doesn't match	Container	Container Correct	BaseMatrix	Sample Comments
1903738-01	A PDI-059SC-B-00-02-191016	<input checked="" type="checkbox"/>	B	001	16-Oct-19 07:57	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903738-02	A PDI-059SC-B-02-04-191016	<input checked="" type="checkbox"/>	B	002	16-Oct-19 07:57	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903738-03	A PDI-059SC-B-04-06-191016	<input checked="" type="checkbox"/>	B	003	16-Oct-19 07:57	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903738-04	A PDI-059SC-B-06-08-191016	<input checked="" type="checkbox"/>	B	004	16-Oct-19 07:57	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903738-05	A PDI-069SC-B-00-02-191016	<input checked="" type="checkbox"/>	A	005	16-Oct-19 10:38	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903738-06	A PDI-069SC-B-02-04-191016	<input checked="" type="checkbox"/>	B	006	16-Oct-19 10:38	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903738-07	A PDI-069SC-B-04-06-191016	<input checked="" type="checkbox"/>	B	007	16-Oct-19 10:38	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	
1903738-08	A PDI-069SC-B-06-08-191016	<input checked="" type="checkbox"/>	A	008	16-Oct-19 10:38	<input checked="" type="checkbox"/>		Amber Glass, 120 mL	<input checked="" type="checkbox"/>	Solid	

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

Comments:

A - cooler #1

B - cooler #2

Verified by/Date: SC 10/21/19

EXTRACTION INFORMATION

Process Sheet

Workorder: 1903738

Prep Expiration: 2020-10-15
Client: Anchor QEA, LLC

Workorder Due: 03-Jan-20 00:00

TAT: 77

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

Prep Batch: BOA0040

Prep Data Entered: DO 01/10/20
Date and Initials

Initial Sequence: SOB0007

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
1903738-01 A	<input checked="" type="checkbox"/>	PDI-059SC-B-00-02-191016	18-Oct-19 08:59	WF-2 D-1	
1903738-02 A	<input checked="" type="checkbox"/>	PDI-059SC-B-02-04-191016	18-Oct-19 08:59	WF-2 D-1	
1903738-03 A	<input checked="" type="checkbox"/>	PDI-059SC-B-04-06-191016	18-Oct-19 08:59	WF-2 D-1	
1903738-04 A	<input checked="" type="checkbox"/>	PDI-059SC-B-06-08-191016	18-Oct-19 08:59	WF-2 D-1	
1903738-05 A	<input checked="" type="checkbox"/>	PDI-069SC-B-00-02-191016	18-Oct-19 08:59	WF-2 D-1	
1903738-06 A	<input checked="" type="checkbox"/>	PDI-069SC-B-02-04-191016	18-Oct-19 08:59	WF-2 D-1	
1903738-07 A	<input checked="" type="checkbox"/>	PDI-069SC-B-04-06-191016	18-Oct-19 08:59	WF-2 D-1	
1903738-08 A	<input checked="" type="checkbox"/>	PDI-069SC-B-06-08-191016	18-Oct-19 08:59	WF-2 D-1	

WO Comments: [REDACTED] (dry weight)
Dioxin - 10g (dry weight)
[REDACTED]

Pre-Prep Check Out: RR 01/03/20
Pre-Prep Check In: RR 01/03/20

Prep Check Out: TL 01/08/20
Prep Check In: TL 01/08/20

Prep Reconciled Initials/Date: RR 01/03/20
Spike Reconciled Initials/Date: TL 01/08/20
VialBoxID: IKEA

PREPARATION BENCH SHEET

Matrix: Solid

B0A0040

Chemist: TL

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 08-Jan-20 07:04

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	B0A0040-BLK1 (A)	NA	(10.00)	TL 01/08/20	01/09/20	01/09/20	01/10/20	01/10/20	01/10/20	01/10/20
<input type="checkbox"/>	B0A0040-BS1	NA	(10.00)							
<input type="checkbox"/>	B0A0040-DUP1	14.46	14.56							
<input type="checkbox"/>	1904337-01	18.80	18.80							
<input type="checkbox"/>	1903738-02	12.55	12.59							
<input type="checkbox"/>	1903738-03	13.82	13.87							
<input type="checkbox"/>	1903738-04	14.43	14.50							
<input type="checkbox"/>	1903738-05 (A)	17.15	17.26							
<input type="checkbox"/>	1903738-06	16.91	16.94						01/10/20	
<input type="checkbox"/>	1903738-07	16.94	16.97							
<input type="checkbox"/>	1903738-08	16.36	16.36							
<input type="checkbox"/>	1904337-01 (B)	14.46	14.47							
<input type="checkbox"/>	1904337-02	14.44	14.49							
<input type="checkbox"/>	1904337-03 (A)	17.27	17.29							
<input type="checkbox"/>	1904337-04	17.04	17.10							

IS Name <u>(V4)</u>	NS Name <u>(V5)</u>	CRS Name <u>(V5)</u>	RS Name <u>(V5)</u>	Cycle Time	APP: SEFUN SOX <u>(SDS)</u>	Check Out: Chemist/Date: <u>TL 01/08/20</u>
PCDD/F <u>19L2301, 10uL</u>	PCDD/F <u>18F1913, 10uL</u>	PCDD/F <u>1911602, 10uL</u>	PCDD/F <u>19I1603, 10uL</u>	Start Date/Time <u>01/08/20 1315</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>TL 01/08/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>01/09/20 0555</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>6.4 20uL</u>		

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

PREPARATION BENCH SHEET

Matrix: Solid

BOA0040

Chemist: TL

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 08-Jan-20 07:04

C	VISTA Sample ID	G Eqv	Sample Amt. (g)	IS/NS CHEM/WIT DATE	CRS CHEM/WIT DATE	AP CHEM/ DATE	ABSG CHEM/ DATE	AA CHEM/ DATE	Florisil CHEM/ DATE	RS CHEM/WIT DATE
<input type="checkbox"/>	1904337-05	15.80	15.82	TL 01/09/20	TL 01/09/20	01/09/20	AD 01/10/20	01/10/20	01/10/20	AD 01/10/20
<input type="checkbox"/>	1904337-06	14.75	14.76	↓	↓	↓	↓	↓	↓	↓

- Ⓐ Only these samples were acid-partitioned. 01/09/20
- Ⓑ Precipitate formed at final volume - 1:20 dilution made 01/10/20
- Ⓒ 01/10/20

IS Name <u>19L 230110ul</u>	NS Name <u>18F1913 10ul</u>	CRS Name <u>19L1602, 10ul</u>	RS Name <u>19L1603, 10ul</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: <u>TL 01/08/20</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>01/08/20 135</u>	SOLV: <u>Toluene</u>	Chemist/Date: <u>TL 01/08/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>01/09/20 0635</u>	Other <u>NA</u>	Check In: <u>TL 01/08/20</u>
PAH	PAH	PAH	PAH		Final Volume(s) <u>614</u>	Balance ID: <u>HRMS-8</u>
					<u>20 ul</u>	

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

Solids estimate

Batch: B9L0072

Lab ID	Analysis	% Solids	Entered	Target weight	Weigh this much
1903738-01	Percent Solids	53.20		10.00	18.80
1903738-02	Percent Solids	79.70		10.00	12.55
1903738-03	Percent Solids	72.37		10.00	13.82
1903738-04	Percent Solids	69.32		10.00	14.43
1903738-05	Percent Solids	58.32		10.00	17.15
1903738-06	Percent Solids	59.14		10.00	16.91
1903738-07	Percent Solids	59.03		10.00	16.94
1903738-08	Percent Solids	61.11		10.00	16.36

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0072

Analyst: RR Analyte: Dried at 110°C±5°C Oven ID: 01 <u>02</u>	Test Code: %Moist/%Solids Units: %	Data Entry Verified by: (Initial and Date) <u>JL 01/10/20</u>
---	---	--

Inst: HRMS-8

<u>Date/Time IN:</u>	<u>Date/Time OUT</u>
01/03/20 12:15	01/07/20 09:32

B		C	D	E		G		H	I	K		L	M	N	O	P
Particle Size		SampID	SampType	Initial and Date:	RR 01/03/20	ME 01/07/20	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*		
	1903738-01	A	Sample	Pan Tare Wt. (gms)	1.3000 ✓	5.8300 ✓	3.7100 ✓	53.20	Mud	NA	NA	NA	NA	Y		
	1903738-02	A	Sample	Wet Pan and Sample Weight (g)	1.2700 ✓	5.9500 ✓	5.0000 ✓	79.70	Sand	NA	NA	NA	NA	Y		
	1903738-03	A	Sample	Dry Pan and Sample Weight (g)	1.2700 ✓	5.8300 ✓	4.5700 ✓	72.37	Sand	NA	NA	NA	NA	Y		
	1903738-04	A	Sample	Dry Sample Weight (g)	1.2900 ✓	6.7000 ✓	5.0400 ✓	69.32	Mud	NA	NA	NA	NA	Y		
	1903738-05	A	Sample	%Solids RawVal	1.2900 ✓	6.0400 ✓	4.0600 ✓	58.32	Mud	NA	NA	NA	NA	Y		
	1903738-06	A	Sample	Visual Inspection	1.3000 ✓	5.5100 ✓	3.7900 ✓	59.14	Mud	NA	NA	NA	NA	Y		
	1903738-07	A	Sample	Cl-	1.2900 ✓	6.6600 ✓	4.4600 ✓	59.03	Mud	NA	NA	NA	NA	Y		
	1903738-08	A	Sample	pH Before	1.2800 ✓	6.8600 ✓	4.6900 ✓	61.11	Mud	NA	NA	NA	NA	Y		

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B9L0072

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

Inst: HRMS-8

Date/Time IN: Date/Time OUT
01/03/20 09:32 01/07/2020

Particle Size	SampID	SampType	Initial and Date: RR 01/03/20		ME 01/07/2020		Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl ⁻	pH Before	pH After	Acid Added	RR 01/03/20	
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Sample Homogenized*									
	1903738-01 A	Sample	1.30	5.83	3.71	/		Mud							X
	1903738-02 A	Sample	1.27	5.95	5.00			Sand							X
	1903738-03 A	Sample	1.27	5.83	4.57			Sand							X
	1903738-04 A	Sample	1.29	6.70	5.04			Mud							X
	1903738-05 A	Sample	1.29	6.04	4.06			Mud							X
	1903738-06 A	Sample	1.30	5.51	3.79			Mud							X
	1903738-07 A	Sample	1.29	6.66	4.46			Mud							X
	1903738-08 A	Sample	1.28	6.86	4.69			Mud							X

*Sample homogenized in sample container unless otherwise noted.

Batch: B0A0040

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
1903738-01	18.8 ✓	53.20089	10.0018	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1903738-02	12.59 ✓	79.70086	10.0343	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1903738-03	13.87 ✓	72.36842	10.0375	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1903738-04	14.5 ✓	69.31609	10.0508	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1903738-05	17.26 ✓	58.31579	10.0653	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1903738-06	16.94 ✓	59.14489	10.0191	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1903738-07	16.97 ✓	59.03166	10.0177	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1903738-08	16.36 ✓	61.11111	9.9978	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1904337-01	14.47 ✓	69.15709	10.0070	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1904337-02	14.49 ✓	69.27273	10.0376	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1904337-03	17.29 ✓	57.90698	10.0121	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1904337-04	17.1 ✓	58.62069	10.0241	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1904337-05	15.82 ✓	63.27683	10.0104	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
1904337-06	14.76 ✓	67.81857	10.0100	20	08-Jan-20 07:04	TL			Sediment	1613 Full List
B0A0040-BLK1	10			20	08-Jan-20 07:04	TL				QC
B0A0040-BS1	10			20	08-Jan-20 07:04	TL	18F1913	10		QC
B0A0040-DUP1	14.56 ✓			20	08-Jan-20 07:04	TL				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 01/10/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200205R1\200205R1-6.qld

Last Altered: Monday, February 10, 2020 12:40:46 Pacific Standard Time
Printed: Monday, February 10, 2020 12:42:56 Pacific Standard Time

GPB 02/10/2020

CT 03/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-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	0.824	10.000	25.706		1.001				0.112	
2	2 1,2,3,7,8-PeCDD			NO	0.912	10.000	30.642		1.001				0.0736	
3	3 1,2,3,4,7,8-HxCDD			NO	0.870	10.000	33.976		1.000				0.0822	
4	4 1,2,3,6,7,8-HxCDD			NO	0.784	10.000	34.072		1.000				0.0781	
5	5 1,2,3,7,8,9-HxCDD			NO	0.798	10.000	34.383		1.001				0.0852	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.737	10.000	37.897		1.000				0.147	
7	7 OCDD	1.41e3	0.74	YES	0.800	10.000	40.889	40.92	1.000	1.001	0.54752		0.244	0.494
8	8 2,3,7,8-TCDF			NO	0.588	10.000	24.817		1.001				0.0917	
9	9 1,2,3,7,8-PeCDF			NO	0.826	10.000	29.361		1.001				0.0519	
10	10 2,3,4,7,8-PeCDF			NO	0.850	10.000	30.346		1.001				0.0500	
11	11 1,2,3,4,7,8-HxCDF			NO	0.787	10.000	33.103		1.000				0.0566	
12	12 1,2,3,6,7,8-HxCDF			NO	0.720	10.000	33.230		1.000				0.0615	
13	13 2,3,4,6,7,8-HxCDF			NO	0.766	10.000	33.840		1.001				0.0679	
14	14 1,2,3,7,8,9-HxCDF	1.47e2	0.95	YES	0.709	10.000	34.701	34.70	1.000	1.000	0.051464		0.0490	0.0453
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.732	10.000	36.483		1.001				0.102	
16	16 1,2,3,4,7,8,9-HpCDF			NO	0.816	10.000	38.482		1.000				0.115	
17	17 OCDF			NO	0.639	10.000	41.081		1.000				0.267	
18	18 13C-2,3,7,8-TCDD	1.21e6	0.79	NO	1.12	10.000	25.675	25.67	1.026	1.026	178.32	89.2	0.263	
19	19 13C-1,2,3,7,8-PeCDD	1.05e6	0.63	NO	0.841	10.000	30.414	30.62	1.215	1.223	205.48	103	0.370	
20	20 13C-1,2,3,4,7,8-HxCDD	7.89e5	1.26	NO	0.938	10.000	33.966	33.97	1.014	1.014	158.95	79.5	0.471	
21	21 13C-1,2,3,6,7,8-HxCDD	9.77e5	1.25	NO	1.07	10.000	34.066	34.07	1.017	1.017	173.29	86.6	0.415	
22	22 13C-1,2,3,7,8,9-HxCDD	9.28e5	1.21	NO	1.03	10.000	34.368	34.35	1.026	1.025	170.22	85.1	0.429	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.48e5	1.03	NO	0.710	10.000	37.919	37.89	1.132	1.131	199.14	99.6	0.671	
24	24 13C-OCDD	1.29e6	0.89	NO	0.601	10.000	40.799	40.89	1.218	1.221	405.16	101	0.599	
25	25 13C-2,3,7,8-TCDF	1.43e6	0.77	NO	1.04	10.000	24.857	24.79	0.993	0.990	162.65	81.3	0.422	
26	26 13C-1,2,3,7,8-PeCDF	1.46e6	1.56	NO	0.917	10.000	29.187	29.34	1.166	1.172	188.96	94.5	0.578	
27	27 13C-2,3,4,7,8-PeCDF	1.40e6	1.56	NO	0.903	10.000	30.139	30.32	1.204	1.211	183.25	91.6	0.587	
28	28 13C-1,2,3,4,7,8-HxCDF	9.57e5	0.50	NO	0.861	10.000	33.095	33.10	0.988	0.988	209.94	105	0.682	
29	29 13C-1,2,3,6,7,8-HxCDF	1.07e6	0.51	NO	1.05	10.000	33.196	33.22	0.991	0.992	194.11	97.1	0.561	
30	30 13C-2,3,4,6,7,8-HxCDF	9.30e5	0.50	NO	0.946	10.000	33.802	33.81	1.009	1.009	185.82	92.9	0.621	
31	31 13C-1,2,3,7,8,9-HxCDF	8.09e5	0.51	NO	0.816	10.000	34.703	34.70	1.036	1.036	187.39	93.7	0.720	

Dataset: U:\VG12.PRO\Results\200205R1\200205R1-6.qld

Last Altered: Monday, February 10, 2020 12:40:46 Pacific Standard Time

Printed: Monday, February 10, 2020 12:42:56 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-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	6.96e5	0.44	NO	0.589	10.000	36.445	36.45	1.088	1.088	223.32	112	0.794	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.06e5	0.43	NO	0.448	10.000	38.455	38.48	1.148	1.149	213.71	107	1.04	
34	34 13C-OCDF	1.39e6	0.87	NO	0.586	10.000	41.034	41.08	1.225	1.226	447.33	112	0.642	
35	35 37Cl-2,3,7,8-TCDD	4.61e5			1.09	10.000	25.708	25.70	1.027	1.027	69.973	87.5	0.0731	
36	36 13C-1,2,3,4-TCDD	1.21e6	0.80	NO	1.00	10.000	25.080	25.03	1.000	1.000	200.00	100	0.293	
37	37 13C-1,2,3,4-TCDF	1.69e6	0.79	NO	1.00	10.000	23.420	23.37	1.000	1.000	200.00	100	0.438	
38	38 13C-1,2,3,4,6,9-HxCDF	1.06e6	0.50	NO	1.00	10.000	33.520	33.50	1.000	1.000	200.00	100	0.587	
39	39 Total Tetra-Dioxins				0.824	10.000	24.620		0.000				0.0692	
40	40 Total Penta-Dioxins				0.912	10.000	29.960		0.000				0.0344	
41	41 Total Hexa-Dioxins				0.784	10.000	33.635		0.000				0.0457	
42	42 Total Hepta-Dioxins				0.737	10.000	37.640		0.000				0.0793	
43	43 Total Tetra-Furans				0.588	10.000	23.610		0.000				0.0434	
44	44 1st Func. Penta-Furans				0.826	10.000	27.090		0.000				0.0211	
45	45 Total Penta-Furans				0.826	10.000	29.275		0.000				0.0223	
46	46 Total Hexa-Furans				0.766	10.000	33.555		0.000		0.061692		0.0352	0.107
47	47 Total Hepta-Furans				0.732	10.000	37.835		0.000				0.0567	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200205R1\200205R1-6.qld

Last Altered: Monday, February 10, 2020 12:40:46 Pacific Standard Time

Printed: Monday, February 10, 2020 12:42:56 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-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\200205R1\200205R1-6.qld

Last Altered: Monday, February 10, 2020 12:40:46 Pacific Standard Time

Printed: Monday, February 10, 2020 12:42:56 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-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	1,2,3,7,8,9-HxCDF	34.70	2.175e3	2.403e3	7.181e1	7.562e1	0.95	YES	1.474e2	0.00000	0.045282	0.0490
2	Total Hexa-Furans	34.73	2.864e3	2.599e3	1.235e2	9.933e1	1.24	NO	2.228e2	0.061692	0.061692	0.0352

Hepta-Furans

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

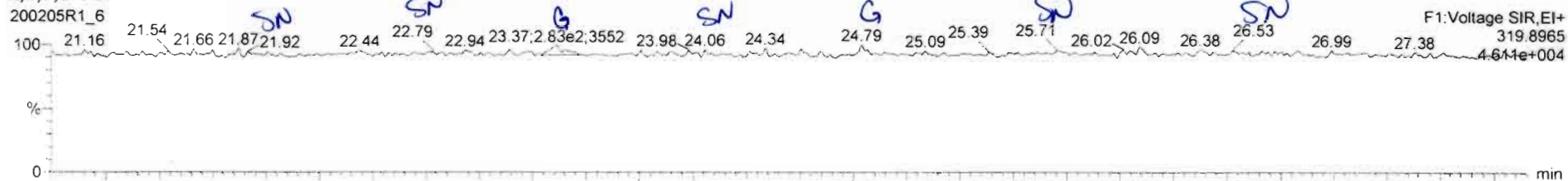
Dataset: U:\VG12.PRO\Results\200205R1\200205R1-6.qld

Last Altered: Wednesday, February 05, 2020 14:38:36 Pacific Standard Time
Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

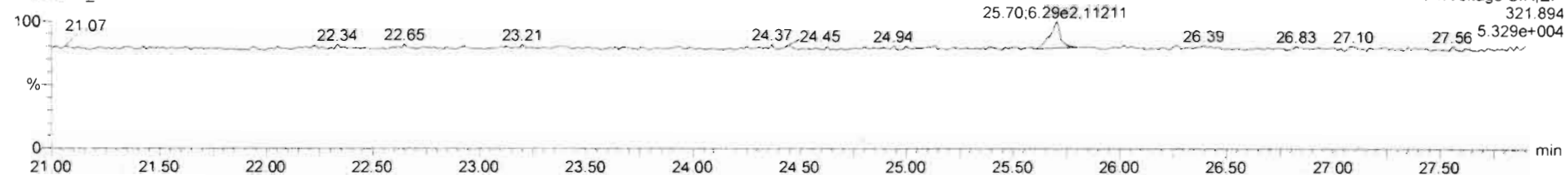
Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-21-20.cdb 22 Jan 2020 09:29:50

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-BLK1 Method Blank 10, Description: Method Blank

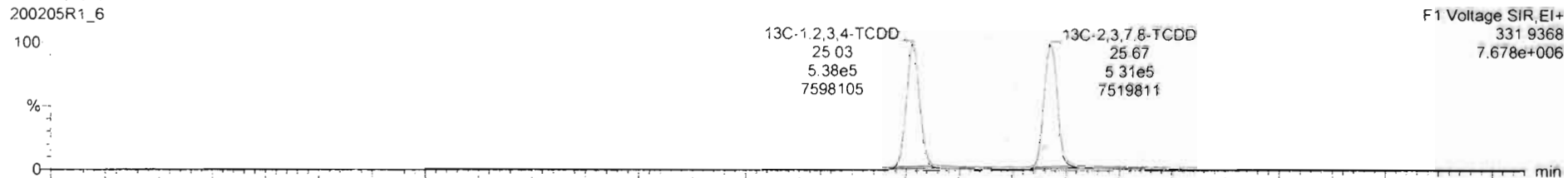
2,3,7,8-TCDD



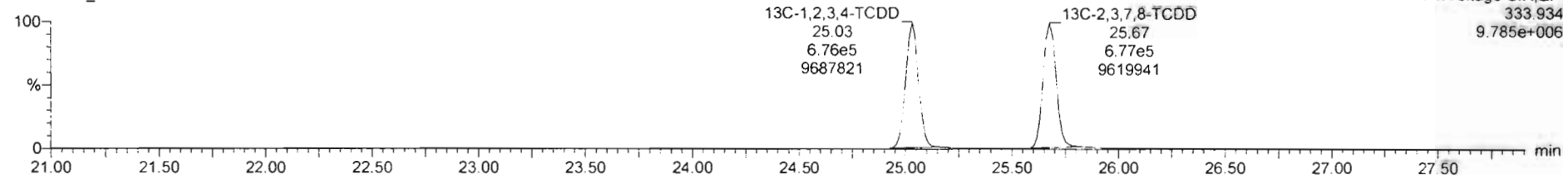
200205R1_6



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

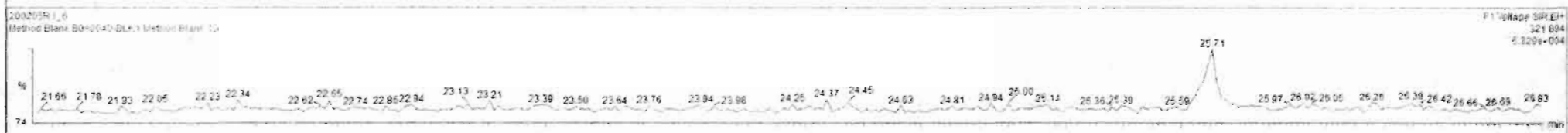
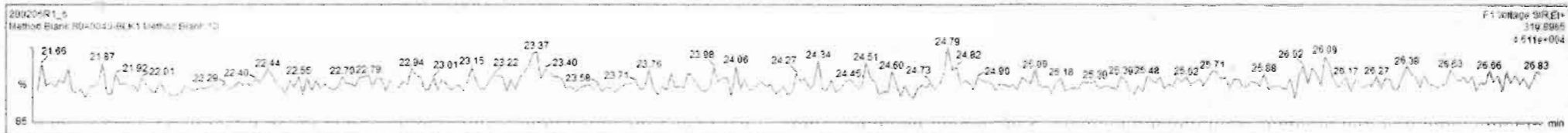


200205R1_6



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 23.78-TCDD			NO	0.8240	10.000					0.112	

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



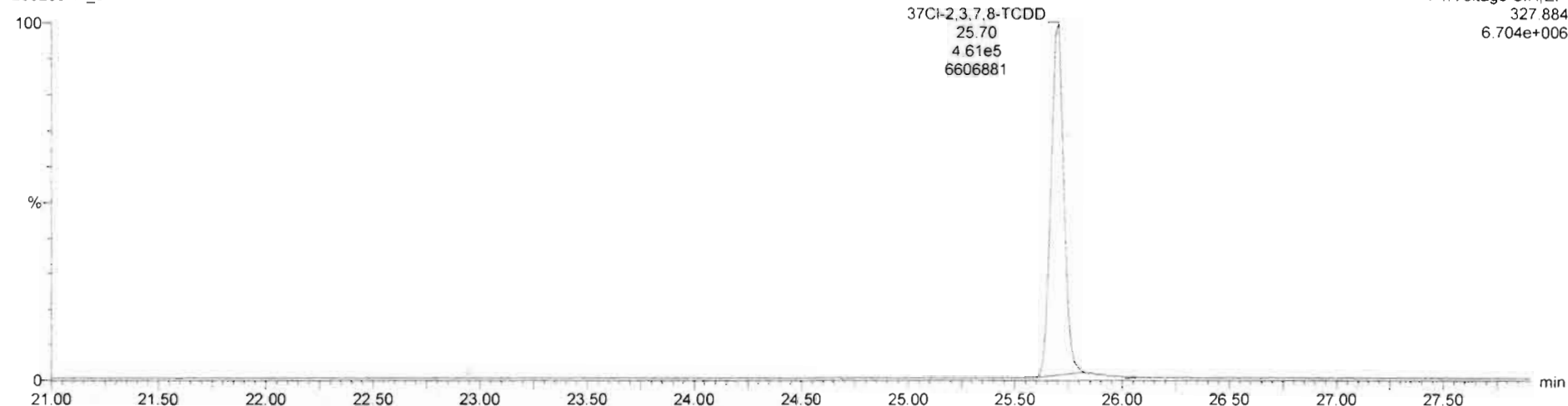
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Last Altered: Wednesday, February 05, 2020 14:38:36 Pacific Standard Time
Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-BLK1 Method Blank 10, Description: Method Blank

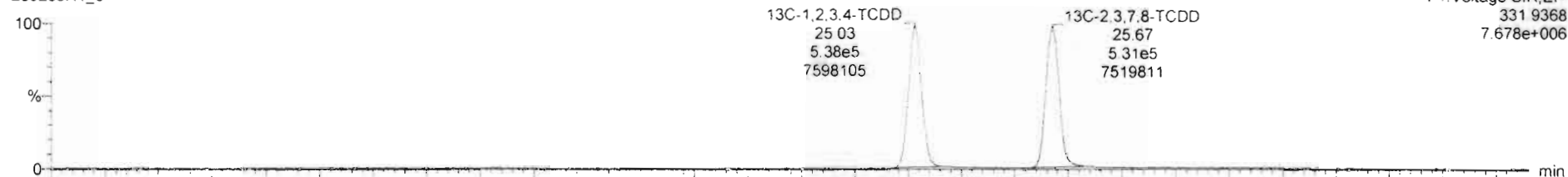
37Cl-2,3,7,8-TCDD

200205R1_6

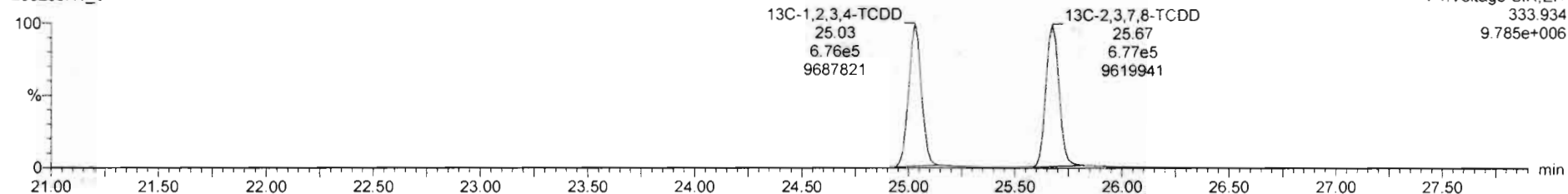


13C-1,2,3,4-TCDD

200205R1_6



200205R1_6



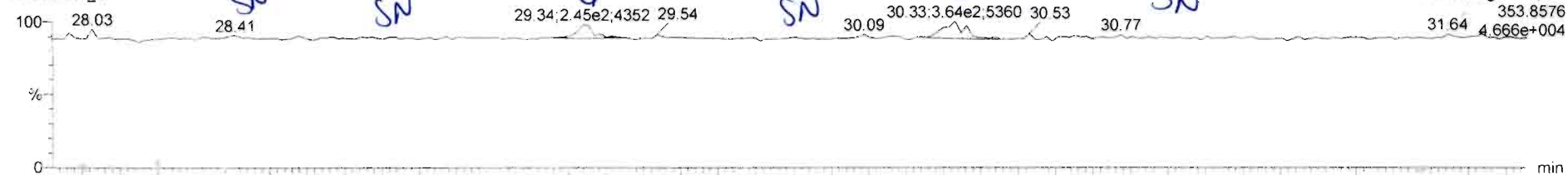
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Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-BLK1 Method Blank 10, Description: Method Blank

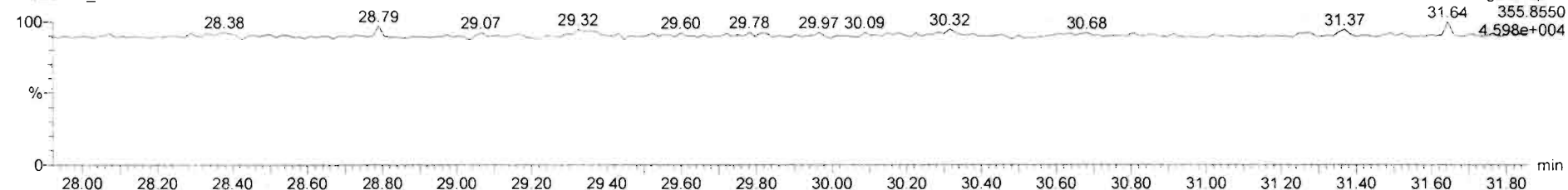
1,2,3,7,8-PeCDD

200205R1_6



F2: Voltage SIR, EI+
353.8576
31.64 4.666e+004

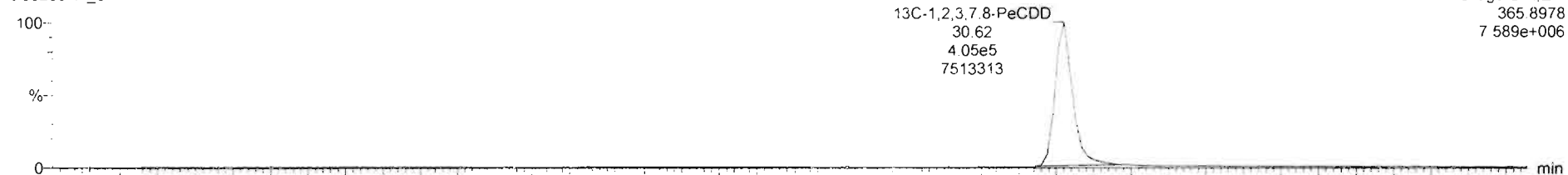
200205R1_6



F2: Voltage SIR, EI+
31.64 355.8550
4.598e+004

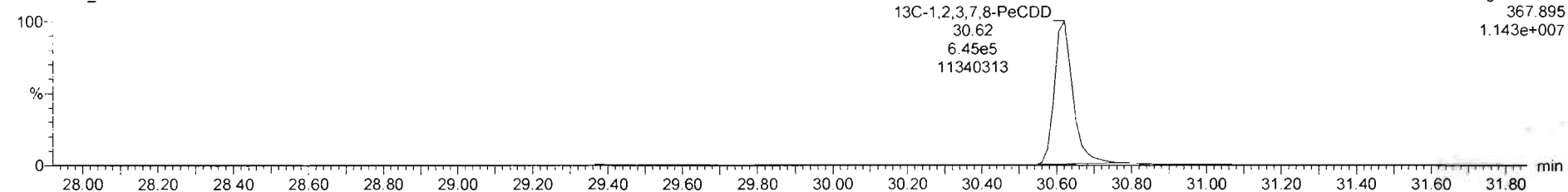
13C-1,2,3,7,8-PeCDD

200205R1_6

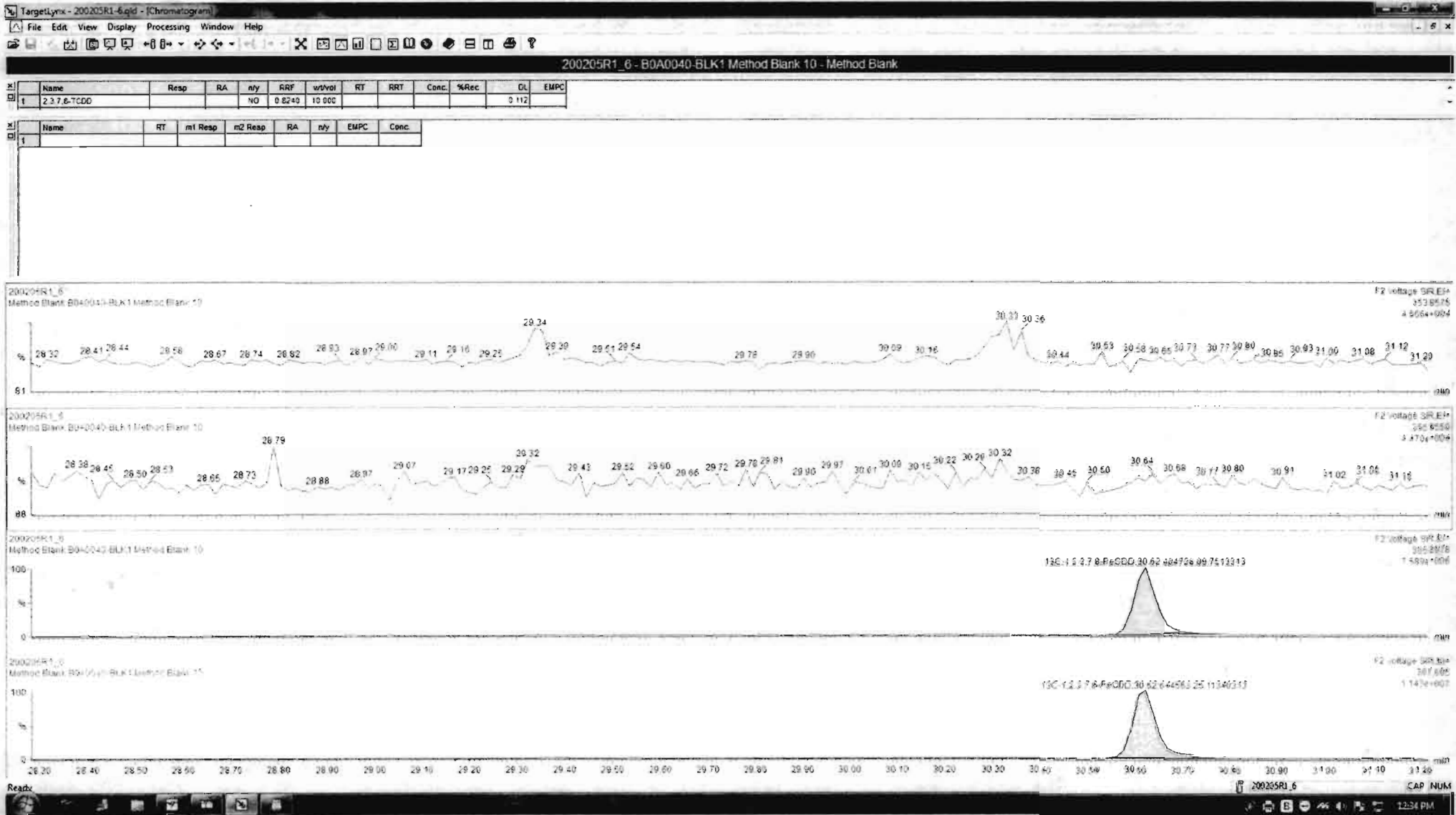


F2: Voltage SIR, EI+
30.62 365.8978
7.589e+006

200205R1_6



F2: Voltage SIR, EI+
30.62 367.895
1.143e+007



Dataset: U:\VG12.PRO\Results\200205R1\200205R1-6.qld

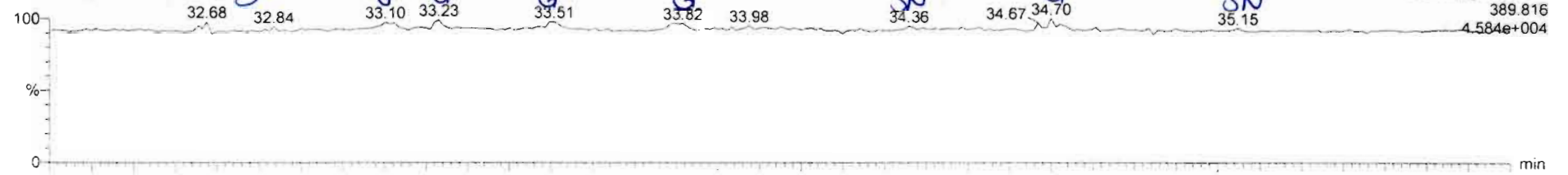
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Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-BLK1 Method Blank 10, Description: Method Blank

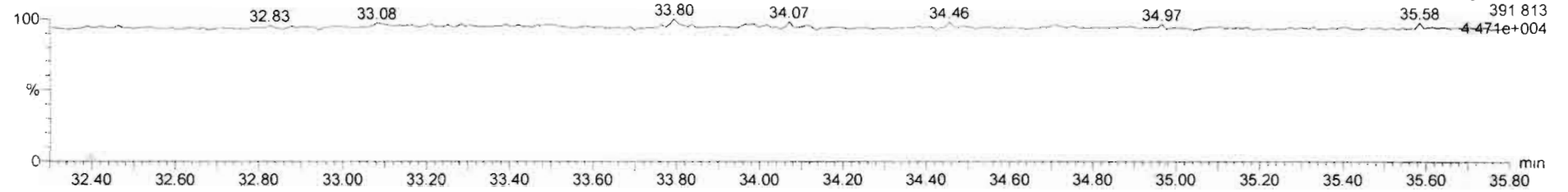
1,2,3,4,7,8-HxCDD

200205R1_6



F3: Voltage SIR, EI+
389.816
4.584e+004

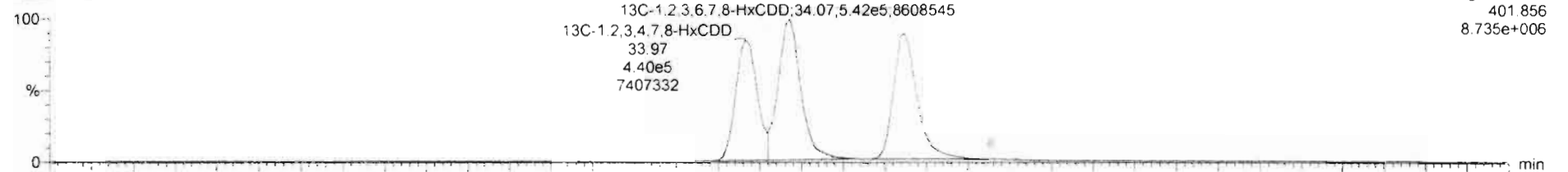
200205R1_6



F3: Voltage SIR, EI+
391.813
4.471e+004

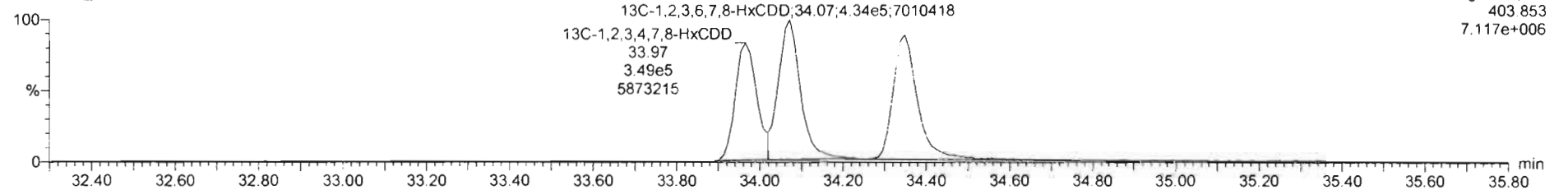
13C-1,2,3,4,7,8-HxCDD

200205R1_6



F3: Voltage SIR, EI+
401.856
8.735e+006

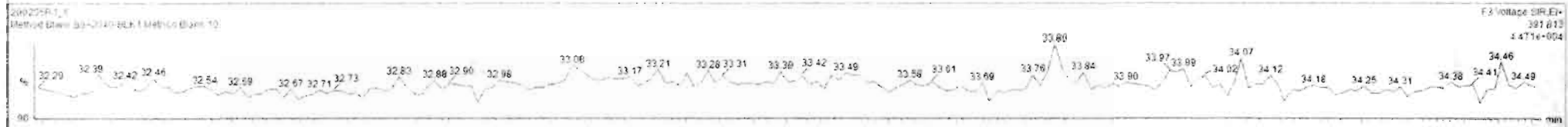
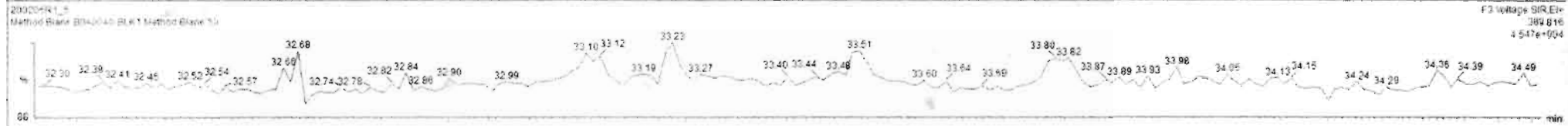
200205R1_6



F3: Voltage SIR, EI+
403.853
7.117e+006

Name	Resp	RA	nY	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
3	1,2,3,4,7,8-HxCDD		NO	0.8704	10.000					0.0622	

Name	RT	m1 Resp	m2 Resp	RA	nY	EMPC	Conc
1							

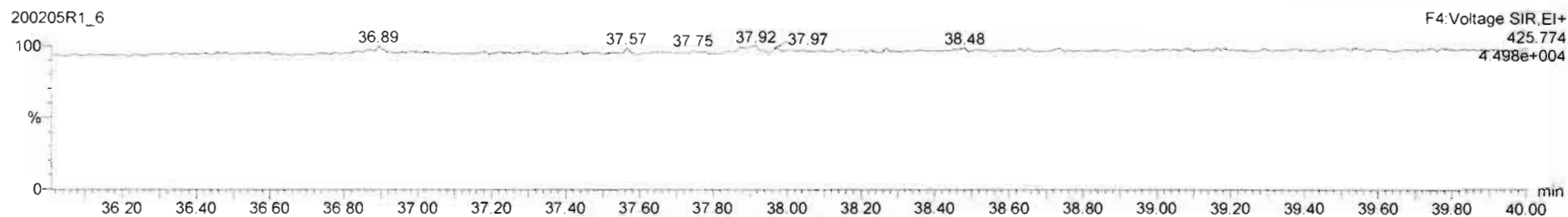
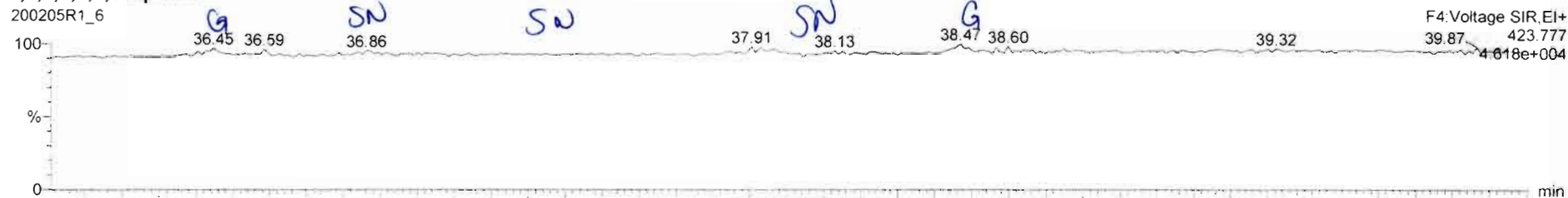


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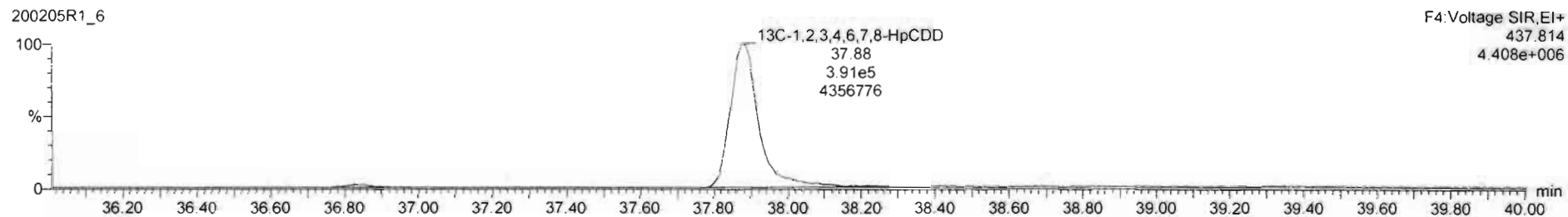
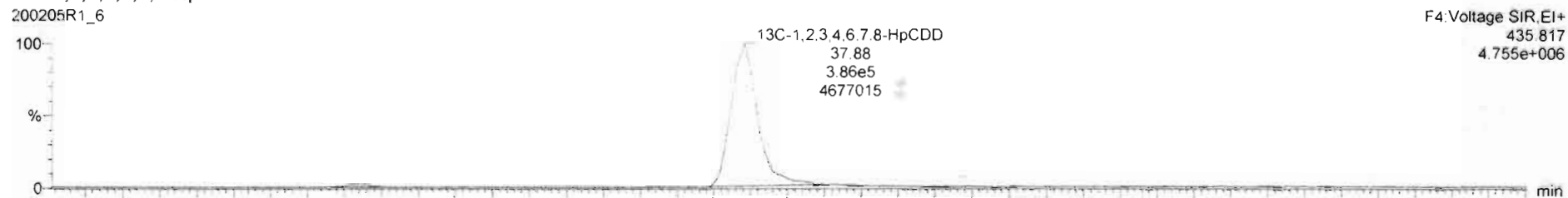
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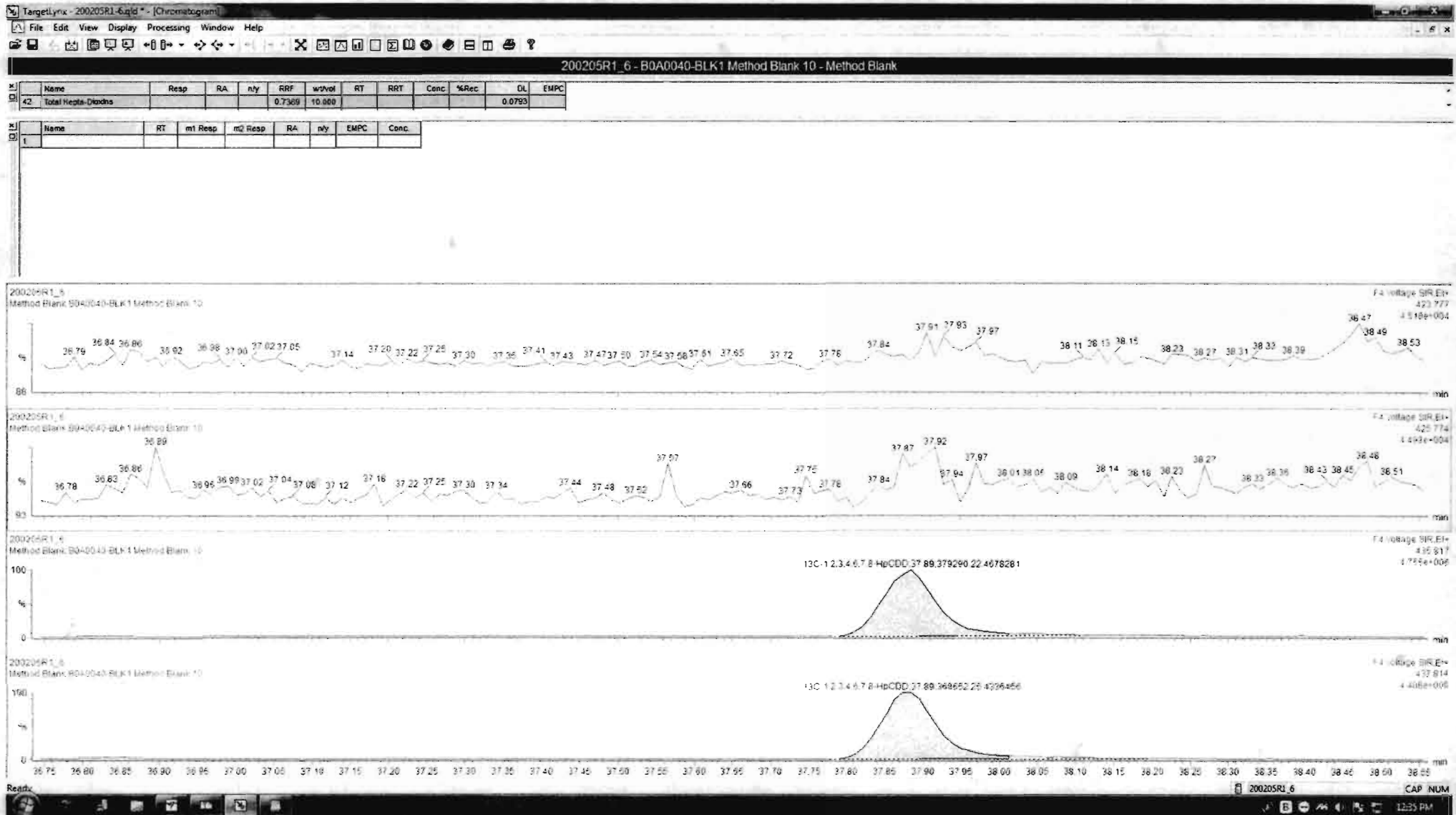
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1,2,3,4,6,7,8-HpCDD



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

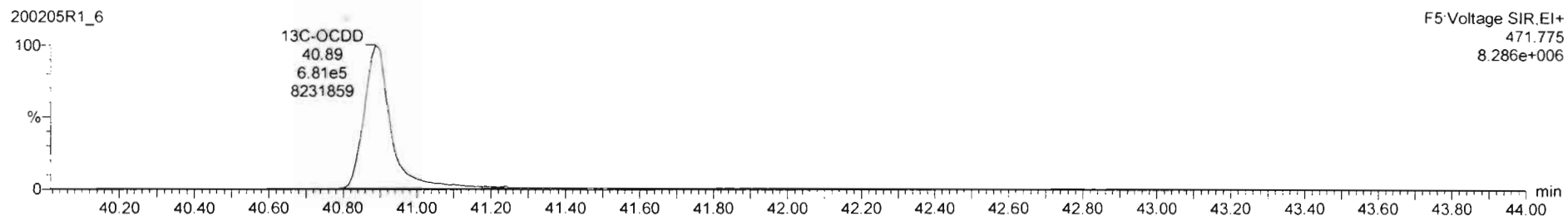
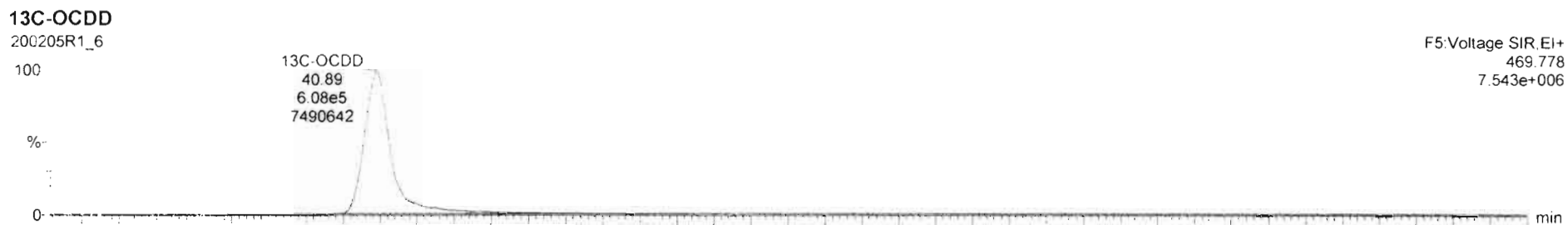
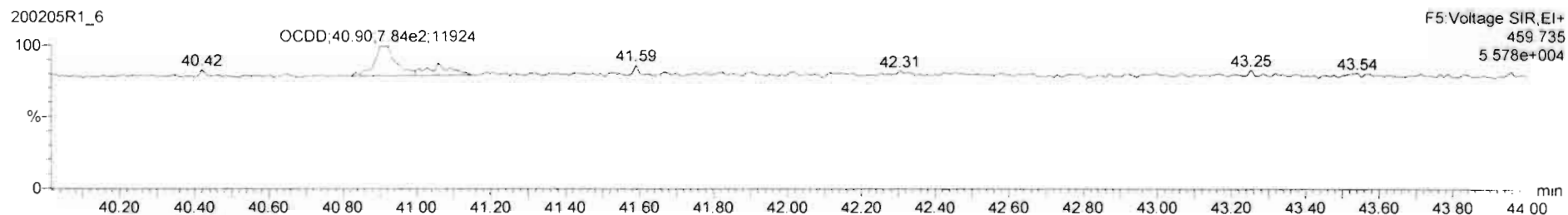
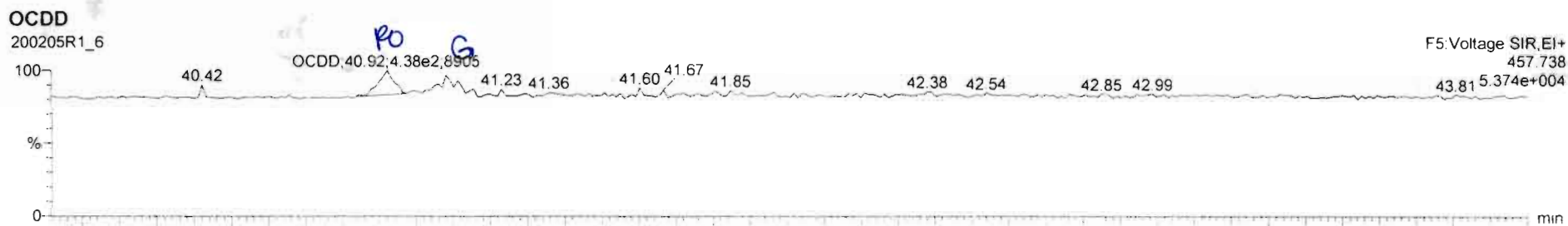


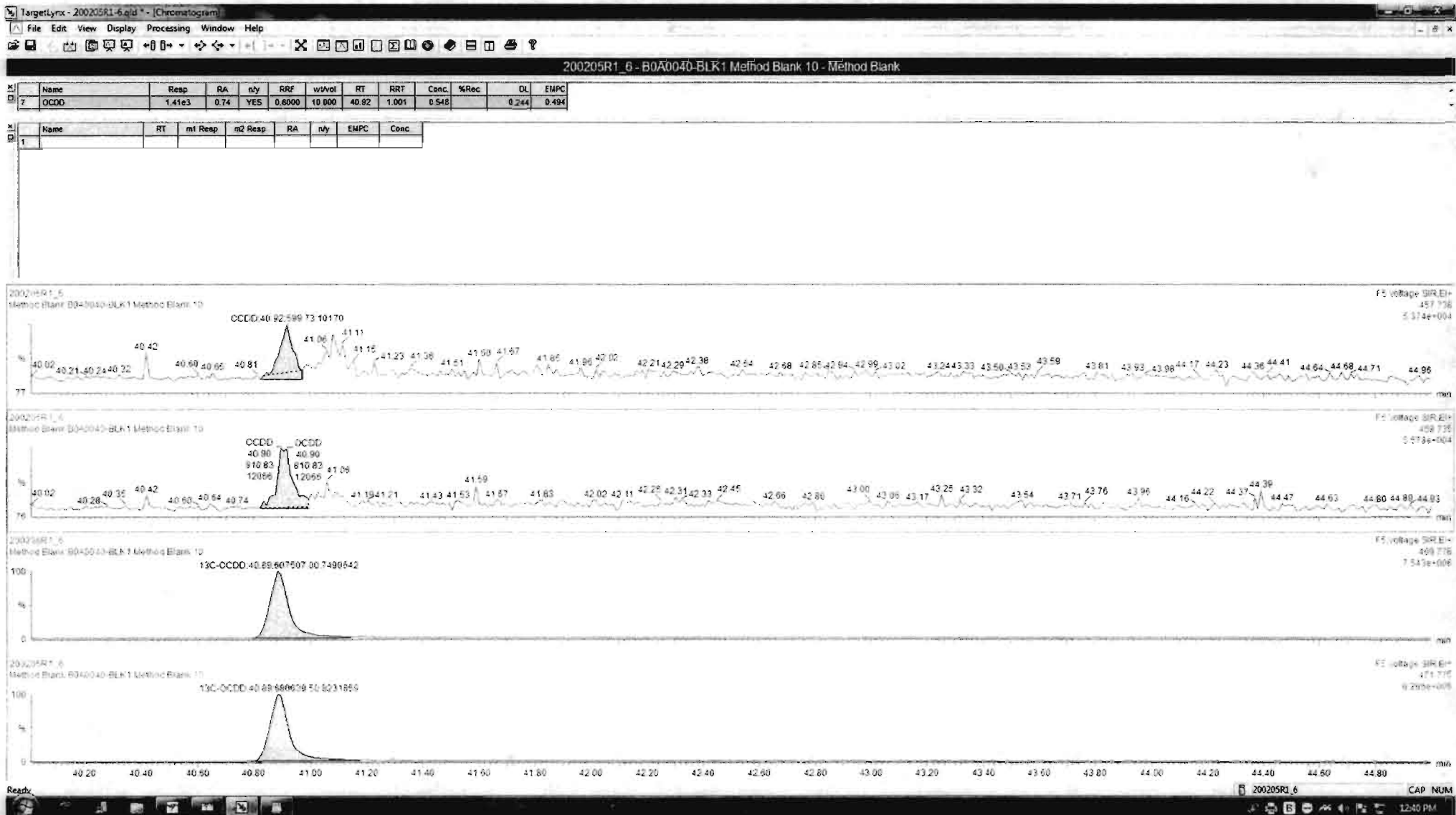


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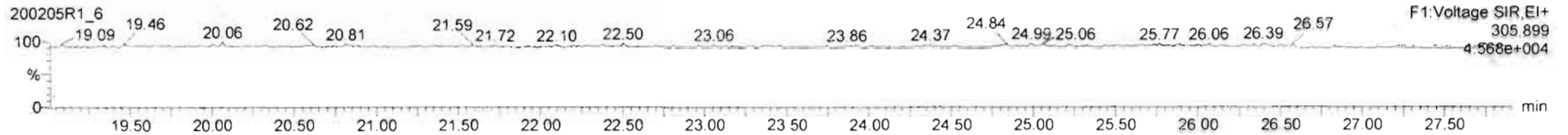
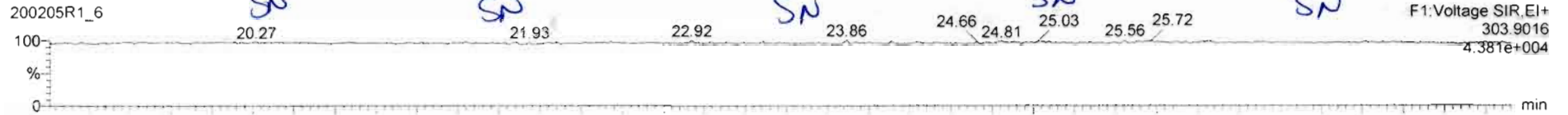


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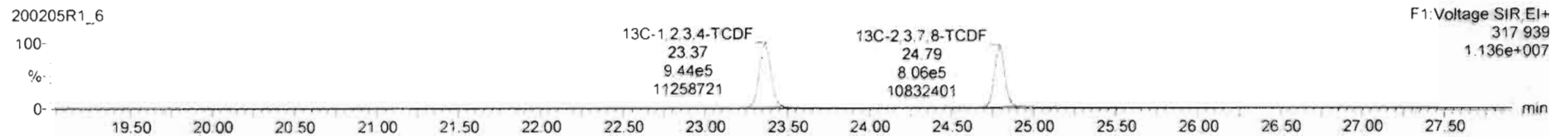
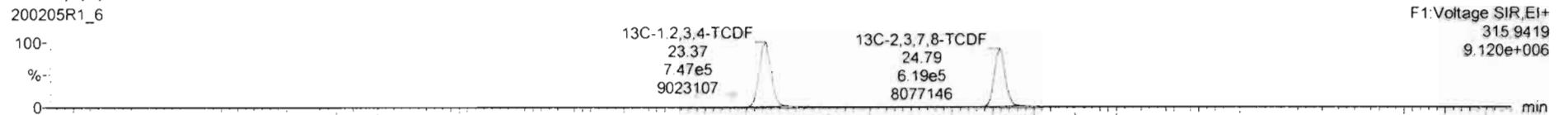
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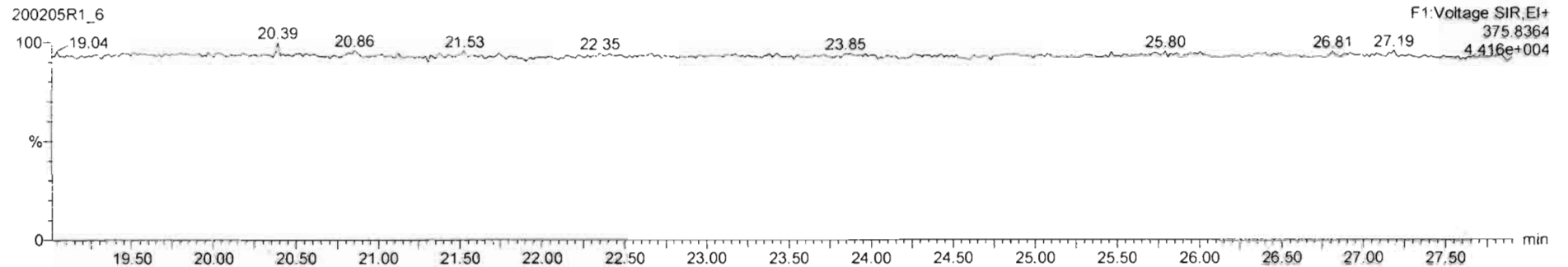
2,3,7,8-TCDF



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

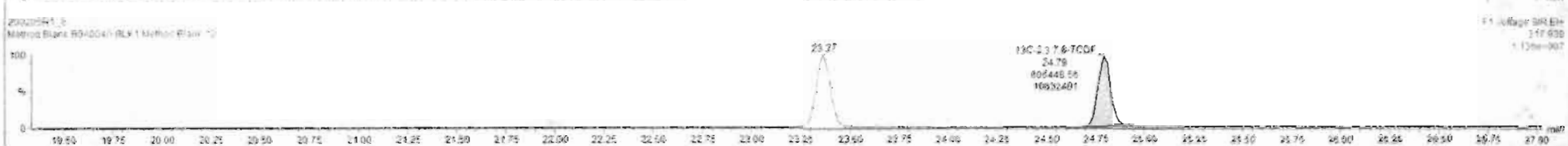
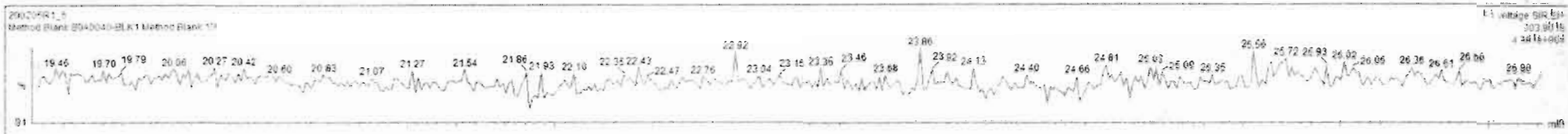


DPE1



#	Name	Resp	RA	n/y	RRF	wt/rd	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furens				0.5878	10.000					0.0434	

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

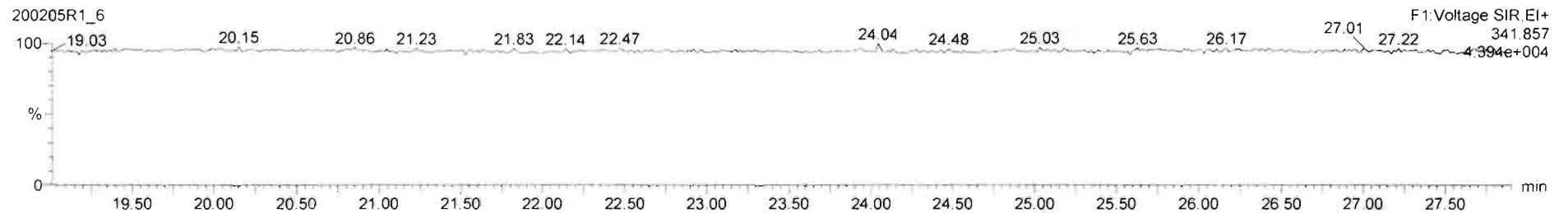
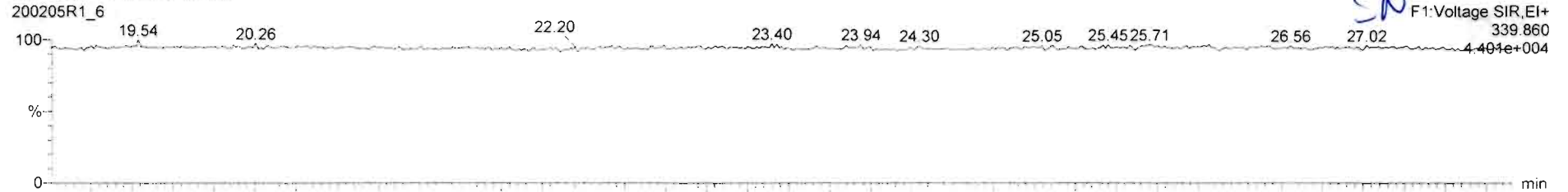


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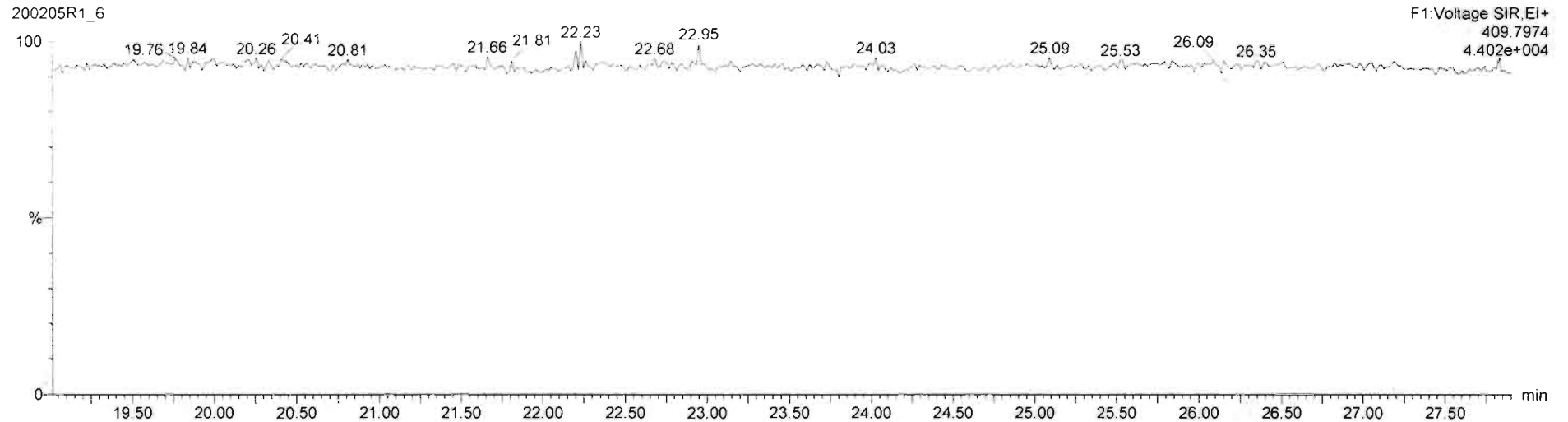
Last Altered: Wednesday, February 05, 2020 14:38:36 Pacific Standard Time
Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans



DPE6

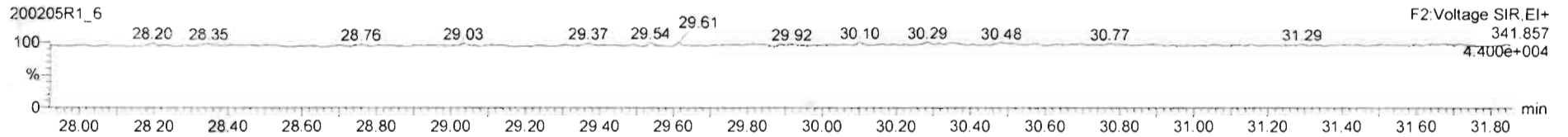
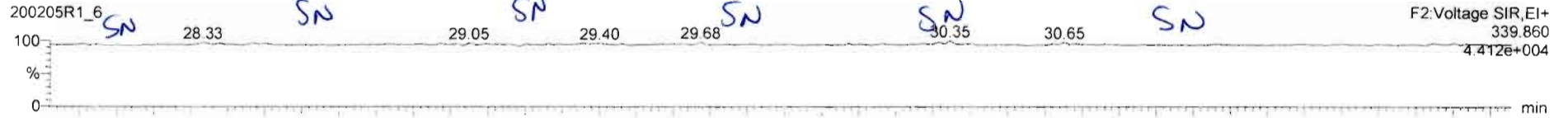


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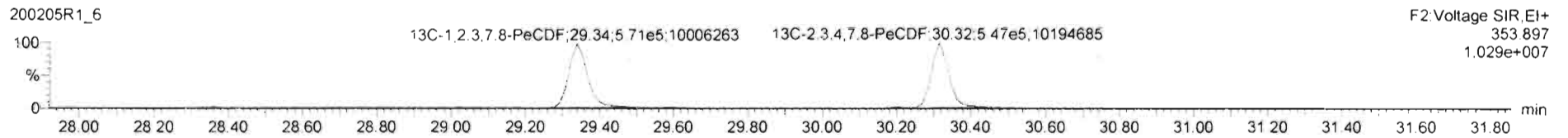
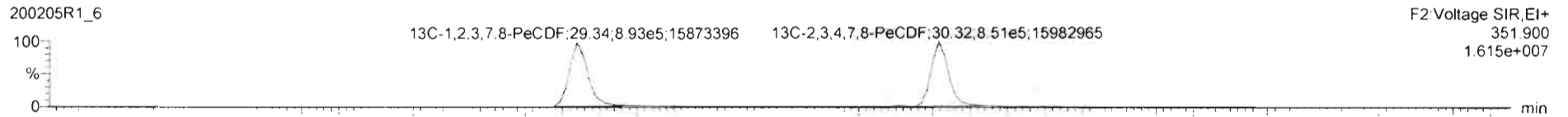
Last Altered: Wednesday, February 05, 2020 14:38:36 Pacific Standard Time
Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

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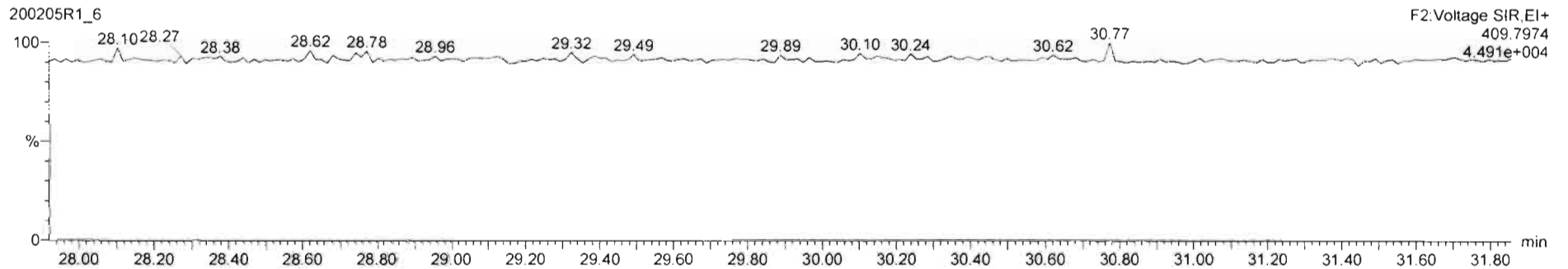
1,2,3,7,8-PeCDF

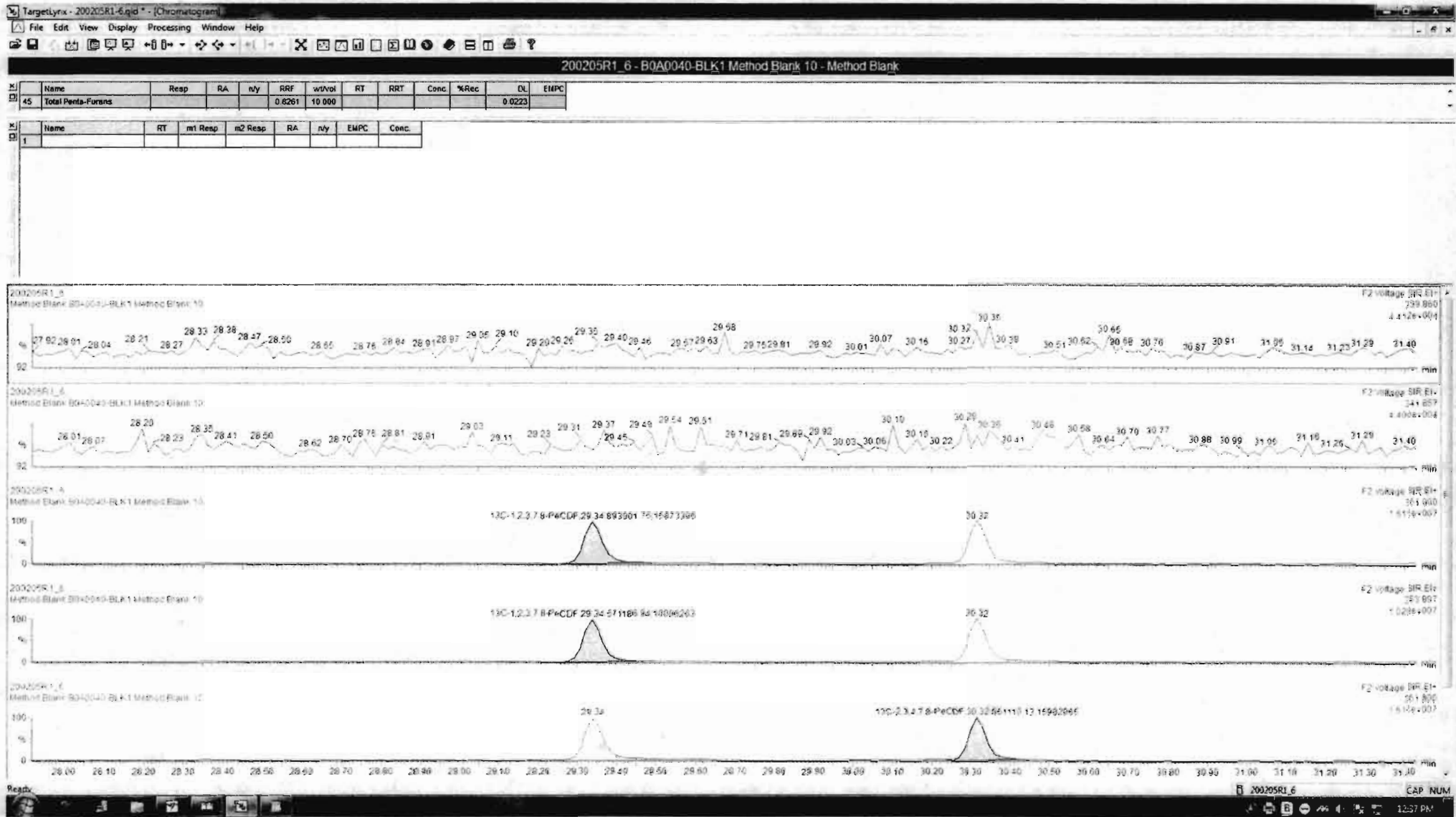


13C-1,2,3,7,8-PeCDF



DPE2



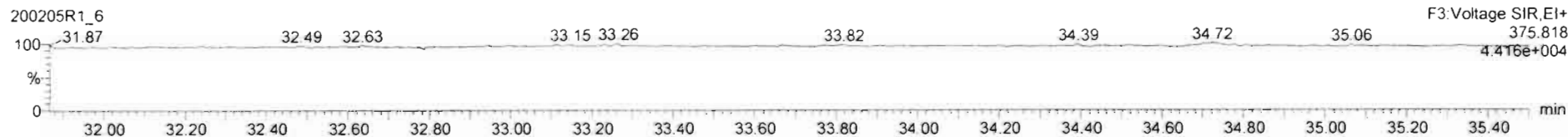
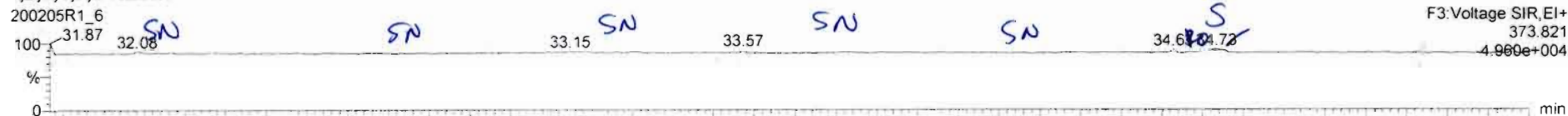


Dataset: U:\VG12.PRO\Results\200205R1\200205R1-6.qld

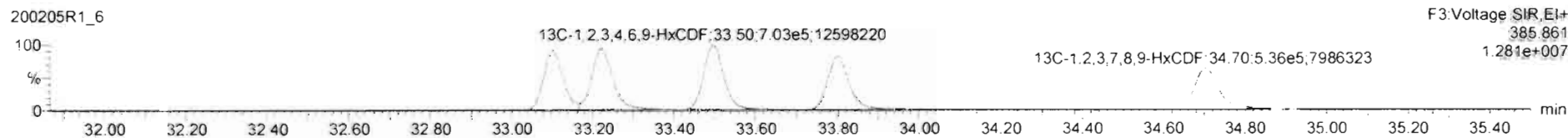
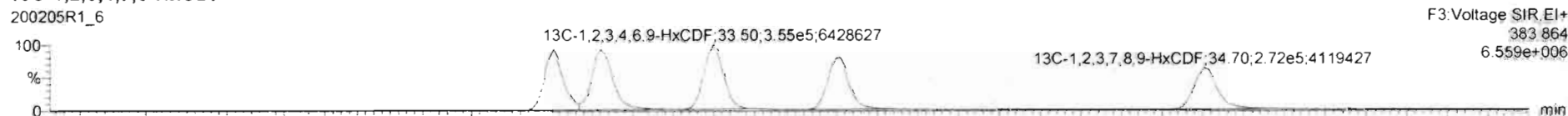
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Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-BLK1 Method Blank 10, Description: Method Blank

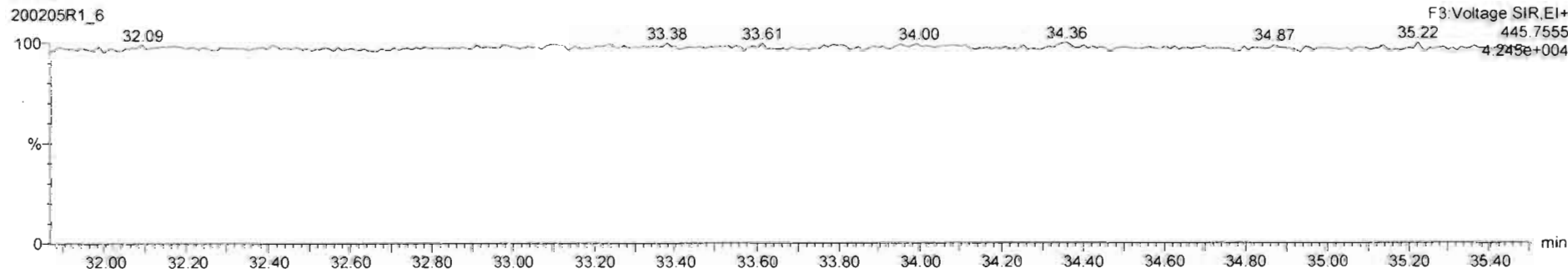
1,2,3,4,7,8-HxCDF

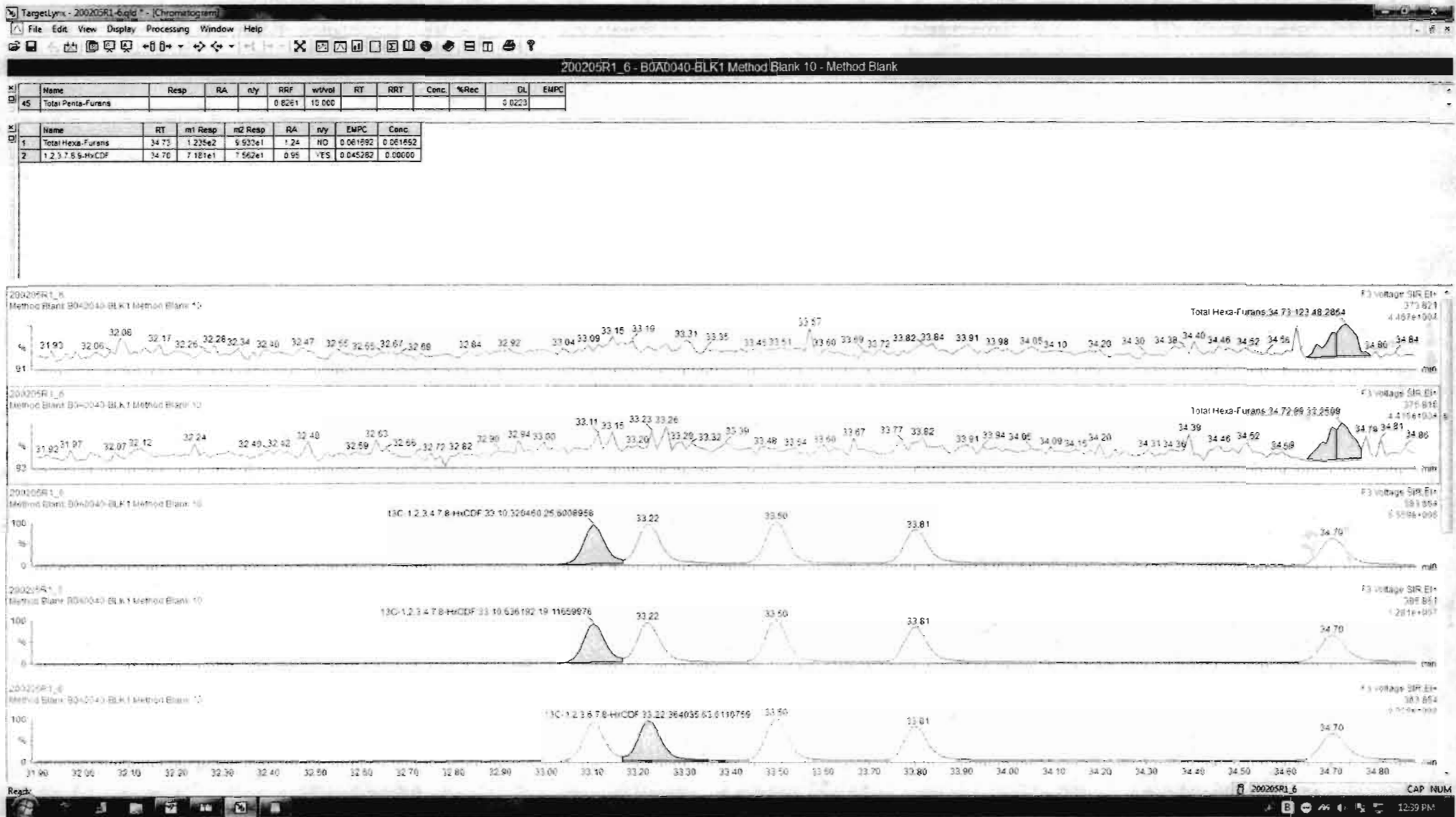


13C-1,2,3,4,7,8-HxCDF



DPE3





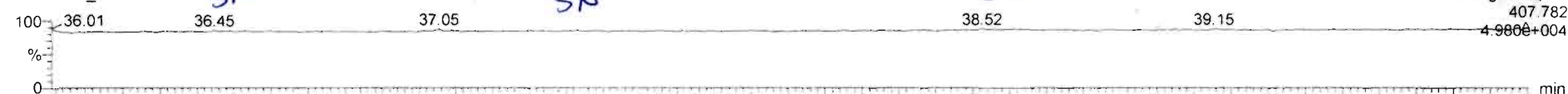
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Last Altered: Wednesday, February 05, 2020 14:38:36 Pacific Standard Time
Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

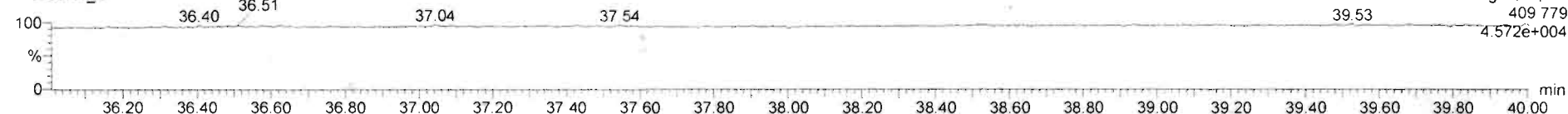
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1,2,3,4,6,7,8-HpCDF

200205R1_6



200205R1_6

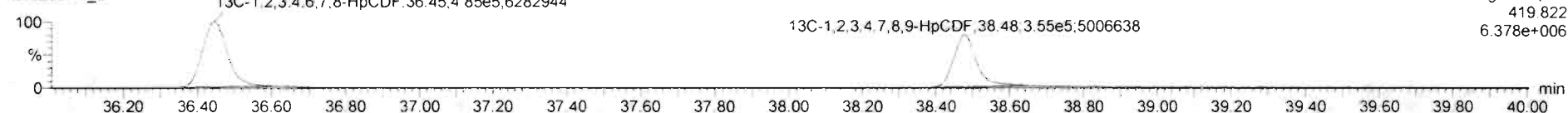


13C-1,2,3,4,6,7,8-HpCDF

200205R1_6

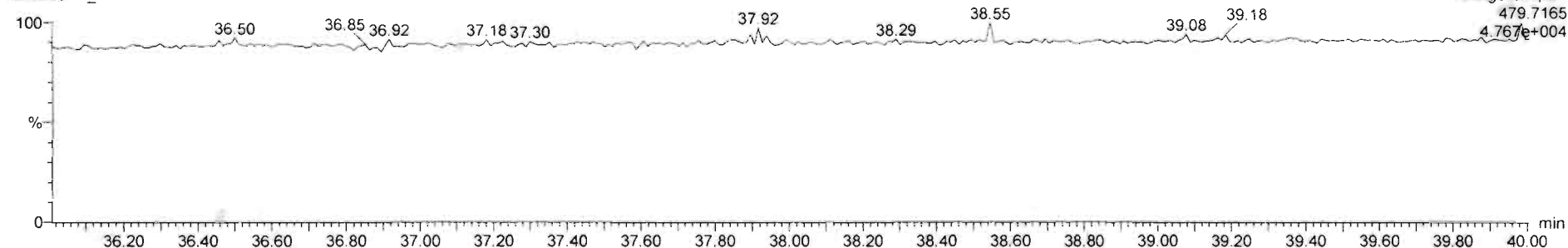


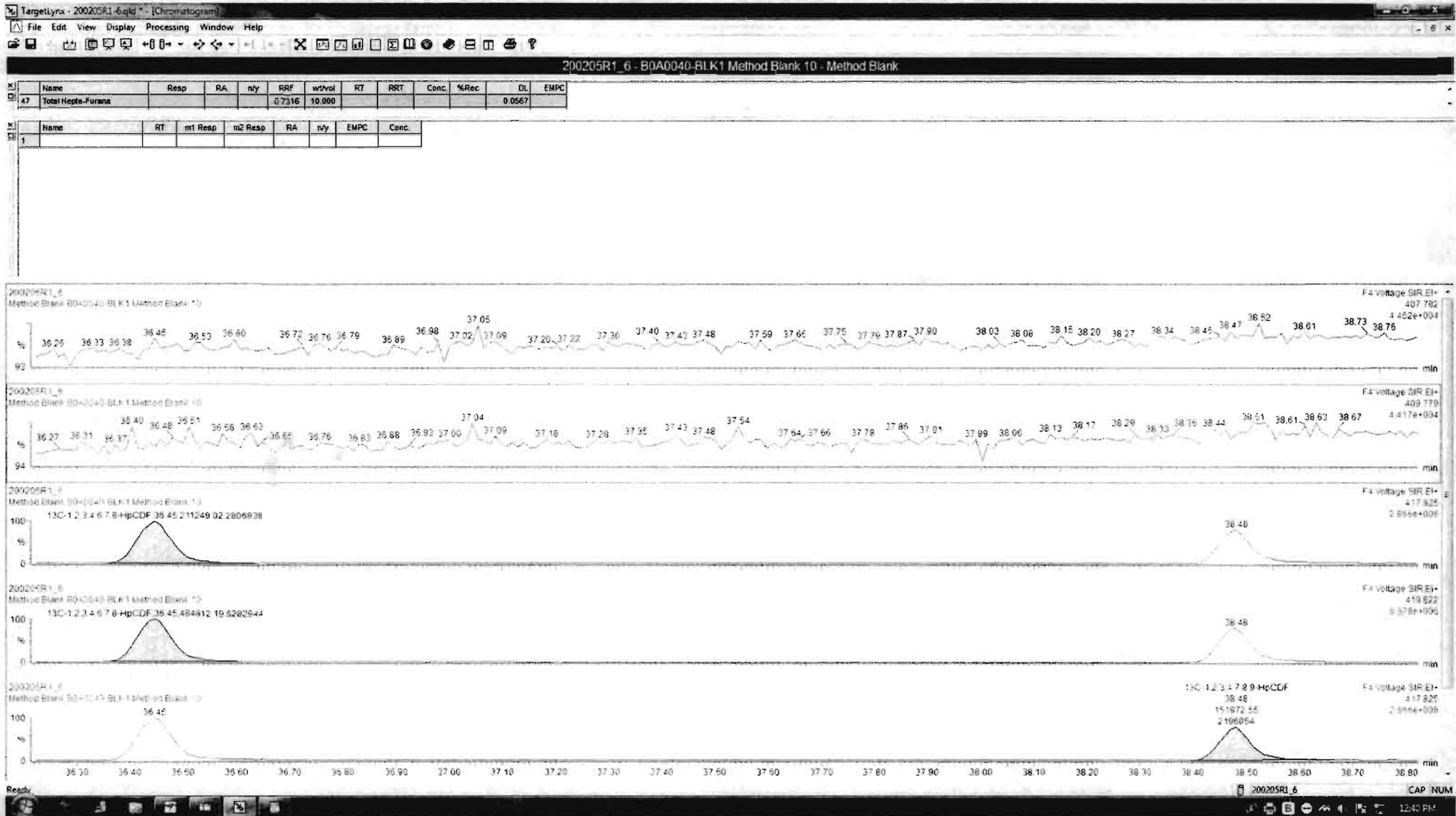
200205R1_6



DPE4

200205R1_6



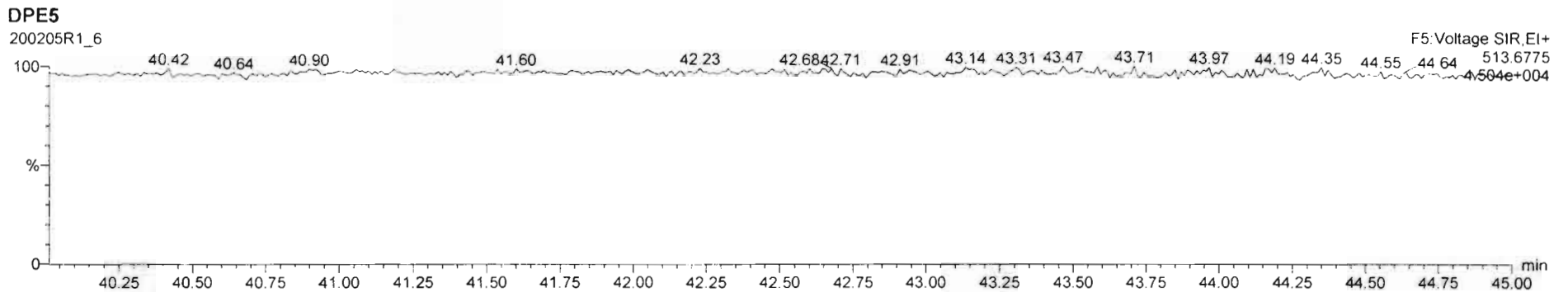
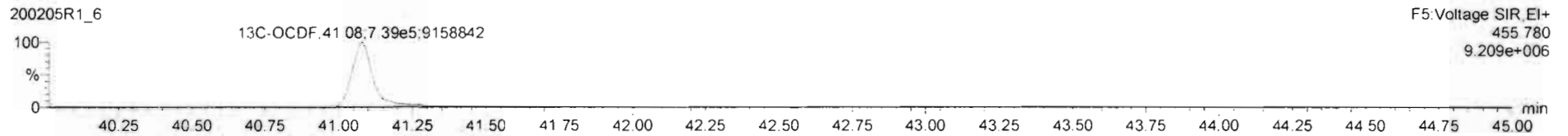
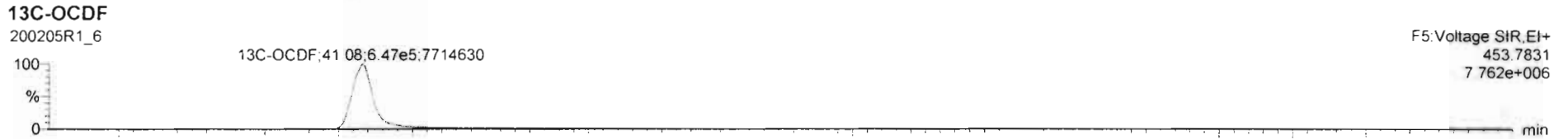
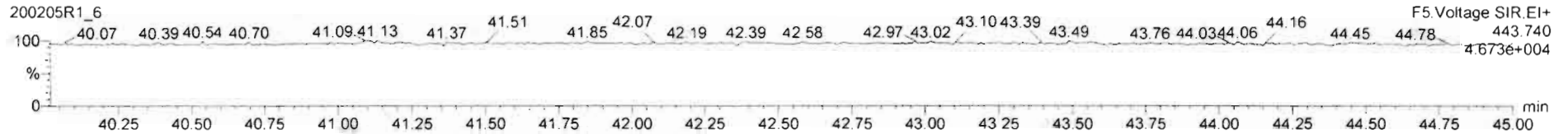
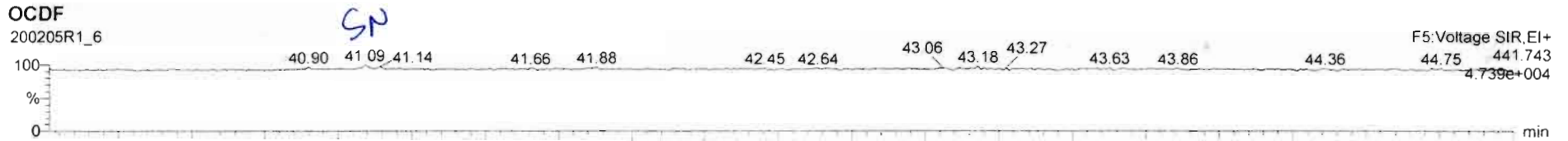


Dataset: U:\VG12.PRO\Results\200205R1\200205R1-6.qld

Last Altered: Wednesday, February 05, 2020 14:38:36 Pacific Standard Time

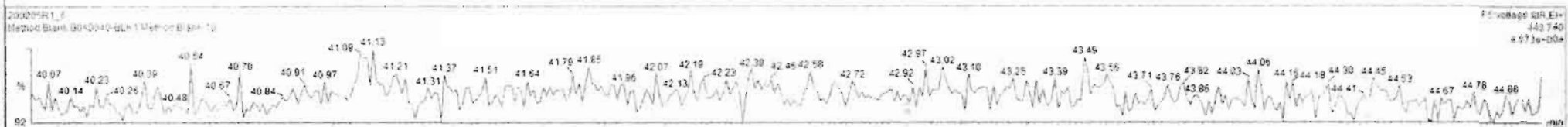
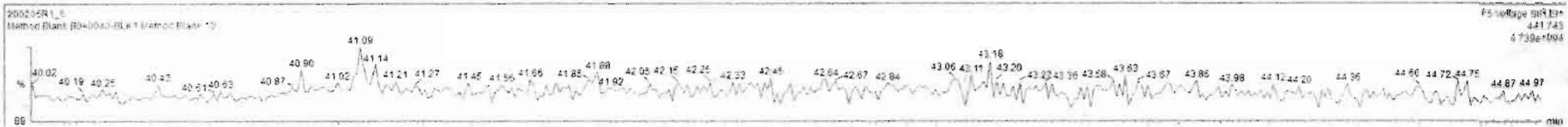
Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-BLK1 Method Blank 10, Description: Method Blank



SI	Name	Resp	RA	nHy	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDP			NO	0.6385	10.000					0.267	

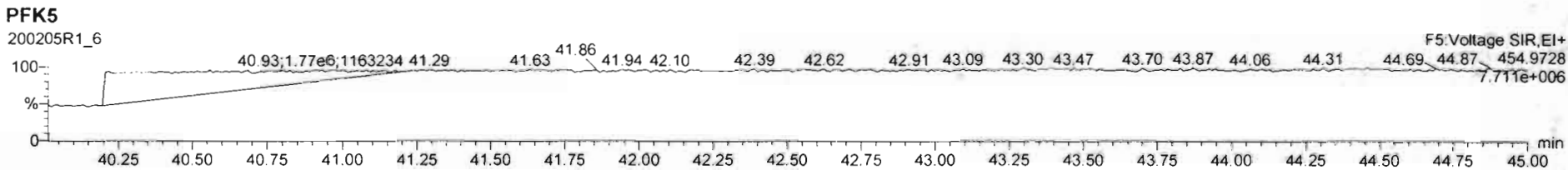
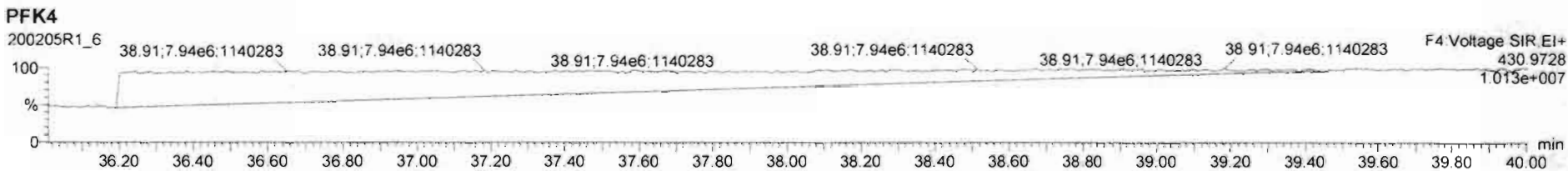
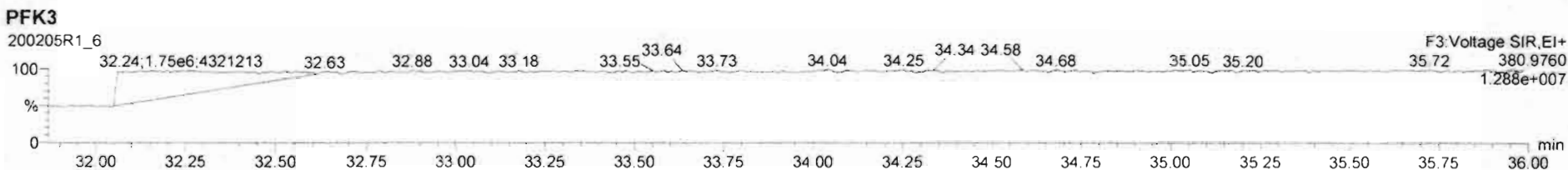
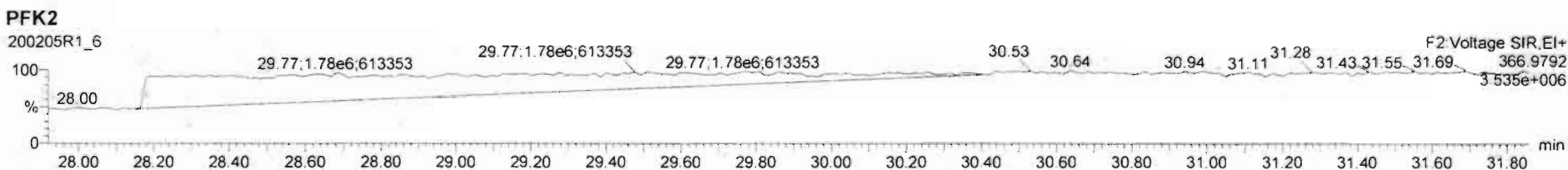
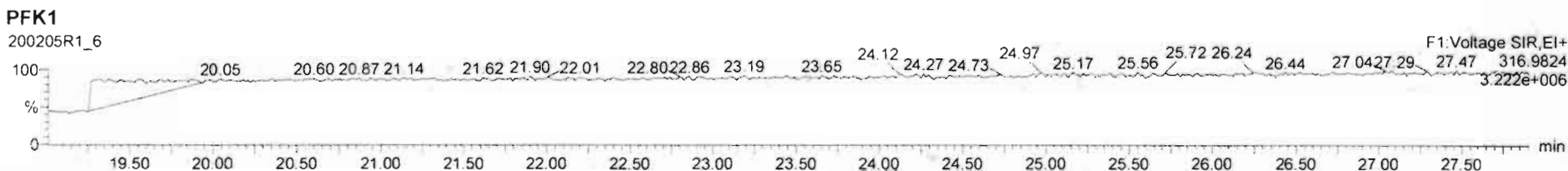
SI	Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1								



Dataset: U:\VG12.PRO\Results\200205R1\200205R1-6.qld

Last Altered: Wednesday, February 05, 2020 14:38:36 Pacific Standard Time
Printed: Monday, February 10, 2020 12:04:22 Pacific Standard Time

Name: 200205R1_6, Date: 05-Feb-2020, Time: 13:22:24, ID: B0A0040-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200205R1\200205R1-3.qld

Last Altered: Monday, February 10, 2020 11:47:51 AM Pacific Standard Time

Printed: Monday, February 10, 2020 11:48:25 AM Pacific Standard Time

GPB 02/10/2020

C1 05/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200205R1_3, Date: 05-Feb-2020, Time: 10:41:14, ID: B0A0040-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.10e5	0.76	NO	0.988	10.000	25.676	25.66	1.001	1.001	16.850		0.107	16.9
2	2 1,2,3,7,8-PeCDD	4.80e5	0.62	NO	0.972	10.000	30.612	30.62	1.001	1.001	84.879		0.182	84.9
3	3 1,2,3,4,7,8-HxCDD	4.05e5	1.21	NO	1.07	10.000	33.965	33.97	1.000	1.000	86.027		0.173	86.0
4	4 1,2,3,6,7,8-HxCDD	4.55e5	1.20	NO	0.921	10.000	34.062	34.07	1.000	1.000	91.719		0.186	91.7
5	5 1,2,3,7,8,9-HxCDD	4.27e5	1.17	NO	0.918	10.000	34.373	34.35	1.001	1.000	89.742		0.199	89.7
6	6 1,2,3,4,6,7,8-HpCDD	3.41e5	1.01	NO	0.923	10.000	37.886	37.89	1.000	1.000	87.994		0.459	88.0
7	7 OCDD	5.43e5	0.88	NO	0.975	10.000	40.889	40.90	1.000	1.000	173.45		0.300	173
8	8 2,3,7,8-TCDF	1.12e5	0.74	NO	0.802	10.000	24.772	24.78	1.001	1.001	17.763		0.0956	17.8
9	9 1,2,3,7,8-PeCDF	6.56e5	1.50	NO	0.907	10.000	29.345	29.34	1.001	1.001	86.588		0.223	86.6
10	10 2,3,4,7,8-PeCDF	6.51e5	1.50	NO	0.952	10.000	30.331	30.32	1.001	1.000	86.416		0.204	86.4
11	11 1,2,3,4,7,8-HxCDF	4.32e5	1.17	NO	0.862	10.000	33.093	33.10	1.000	1.000	93.177		0.279	93.2
12	12 1,2,3,6,7,8-HxCDF	4.76e5	1.16	NO	0.841	10.000	33.220	33.22	1.000	1.000	92.193		0.264	92.2
13	13 2,3,4,6,7,8-HxCDF	4.27e5	1.19	NO	0.898	10.000	33.819	33.81	1.001	1.001	92.446		0.299	92.4
14	14 1,2,3,7,8,9-HxCDF	3.64e5	1.17	NO	0.858	10.000	34.690	34.71	1.000	1.001	88.568		0.375	88.6
15	15 1,2,3,4,6,7,8-HpCDF	3.07e5	1.00	NO	0.851	10.000	36.473	36.45	1.001	1.000	91.935		0.556	91.9
16	16 1,2,3,4,7,8,9-HpCDF	2.56e5	0.98	NO	0.980	10.000	38.471	38.48	1.000	1.000	93.404		0.651	93.4
17	17 OCDF	5.25e5	0.86	NO	0.806	10.000	41.081	41.09	1.000	1.000	183.74		0.454	184
18	18 13C-2,3,7,8-TCDD	1.32e6	0.80	NO	1.20	10.000	25.645	25.65	1.026	1.026	169.45	84.7	0.260	
19	19 13C-1,2,3,7,8-PeCDD	1.16e6	0.65	NO	0.967	10.000	30.377	30.59	1.215	1.224	185.56	92.8	0.351	
20	20 13C-1,2,3,4,7,8-HxCDD	8.80e5	1.27	NO	0.874	10.000	33.956	33.96	1.014	1.014	168.14	84.1	0.438	
21	21 13C-1,2,3,6,7,8-HxCDD	1.08e6	1.24	NO	1.05	10.000	34.056	34.06	1.017	1.017	171.96	86.0	0.366	
22	22 13C-1,2,3,7,8,9-HxCDD	1.04e6	1.24	NO	0.974	10.000	34.358	34.34	1.026	1.025	177.67	88.8	0.393	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.40e5	1.04	NO	0.747	10.000	37.907	37.87	1.132	1.131	187.78	93.9	0.642	
24	24 13C-OCDD	1.29e6	0.88	NO	0.707	10.000	40.787	40.89	1.218	1.221	303.84	76.0	0.600	
25	25 13C-2,3,7,8-TCDF	1.58e6	0.76	NO	1.07	10.000	24.827	24.75	0.993	0.990	161.93	81.0	0.405	
26	26 13C-1,2,3,7,8-PeCDF	1.67e6	1.52	NO	1.00	10.000	29.152	29.32	1.166	1.173	182.21	91.1	0.520	
27	27 13C-2,3,4,7,8-PeCDF	1.58e6	1.57	NO	0.962	10.000	30.102	30.30	1.204	1.212	180.08	90.0	0.541	
28	28 13C-1,2,3,4,7,8-HxCDF	1.08e6	0.52	NO	1.05	10.000	33.085	33.09	0.988	0.988	171.19	85.6	0.562	
29	29 13C-1,2,3,6,7,8-HxCDF	1.23e6	0.51	NO	1.19	10.000	33.186	33.21	0.991	0.992	172.19	86.1	0.496	
30	30 13C-2,3,4,6,7,8-HxCDF	1.03e6	0.51	NO	1.07	10.000	33.792	33.78	1.009	1.009	161.05	80.5	0.553	
31	31 13C-1,2,3,7,8,9-HxCDF	9.58e5	0.48	NO	0.922	10.000	34.693	34.69	1.036	1.036	173.36	86.7	0.640	

Dataset: U:\VG12.PRO\Results\200205R1\200205R1-3.qld

Last Altered: Monday, February 10, 2020 11:47:51 AM Pacific Standard Time

Printed: Monday, February 10, 2020 11:48:25 AM Pacific Standard Time

Name: 200205R1_3, Date: 05-Feb-2020, Time: 10:41:14, ID: B0A0040-BS1 OPR 10, Description: OPR

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	7.85e5	0.43	NO	0.767	10.000	36.434	36.44	1.088	1.088	170.83	85.4	0.579	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.60e5	0.44	NO	0.552	10.000	38.443	38.47	1.148	1.149	169.46	84.7	0.804	
34	34 13C-OCDF	1.42e6	0.87	NO	0.789	10.000	41.022	41.08	1.225	1.227	300.40	75.1	0.428	
35	35 37Cl-2,3,7,8-TCDD	4.71e5			1.18	10.000	25.677	25.66	1.027	1.026	61.835	77.3	0.0699	
36	36 13C-1,2,3,4-TCDD	1.30e6	0.79	NO	1.00	10.000	25.080	25.00	1.000	1.000	200.00	100	0.312	
37	37 13C-1,2,3,4-TCDF	1.83e6	0.78	NO	1.00	10.000	23.420	23.33	1.000	1.000	200.00	100	0.432	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	10.000	33.520	33.49	1.000	1.000	200.00	100	0.590	

Dataset: Untitled

Last Altered: Thursday, February 06, 2020 08:54:09 Pacific Standard Time

Printed: Thursday, February 06, 2020 08:54:13 Pacific Standard Time

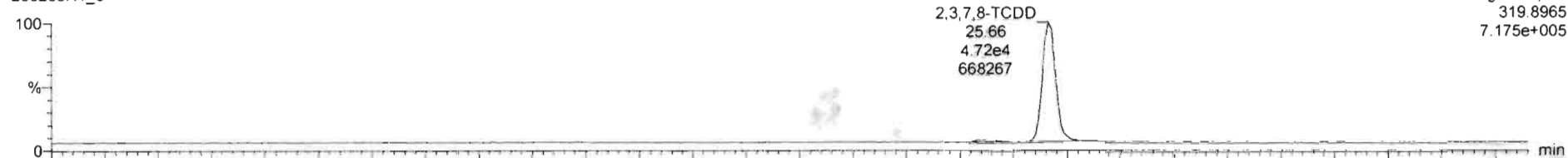
Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

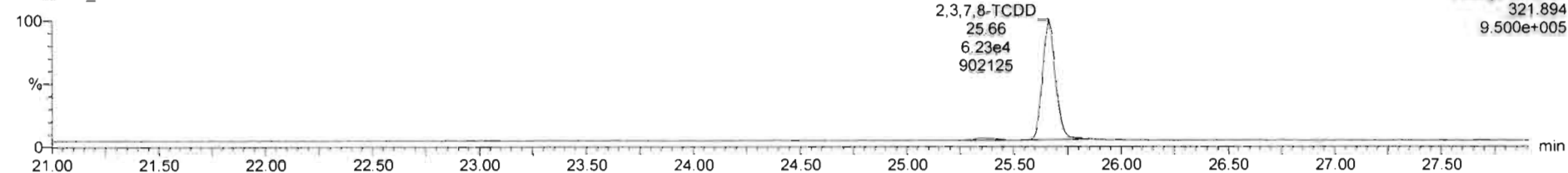
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2,3,7,8-TCDD

200205R1_3

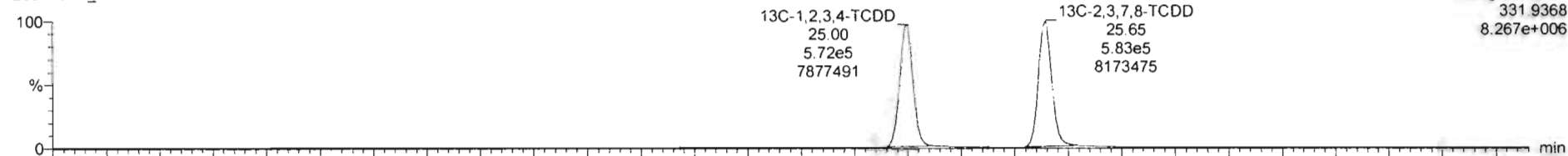


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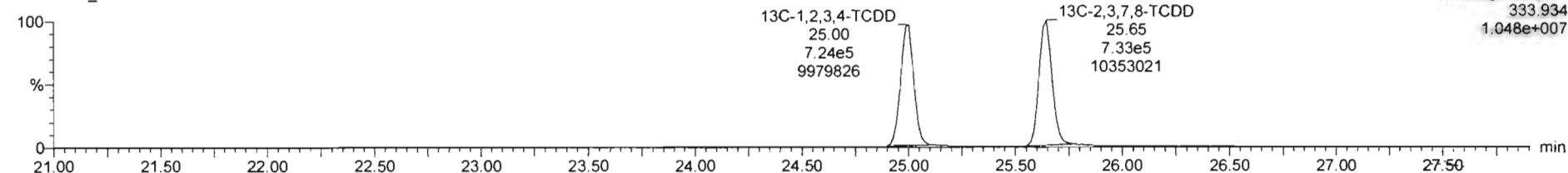


13C-2,3,7,8-TCDD

200205R1_3



200205R1_3



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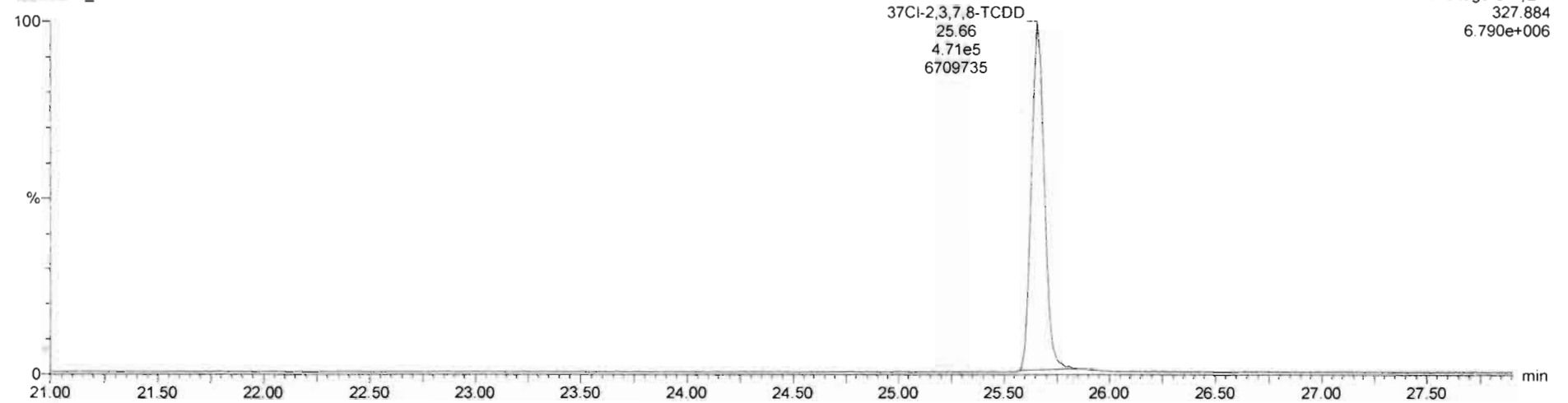
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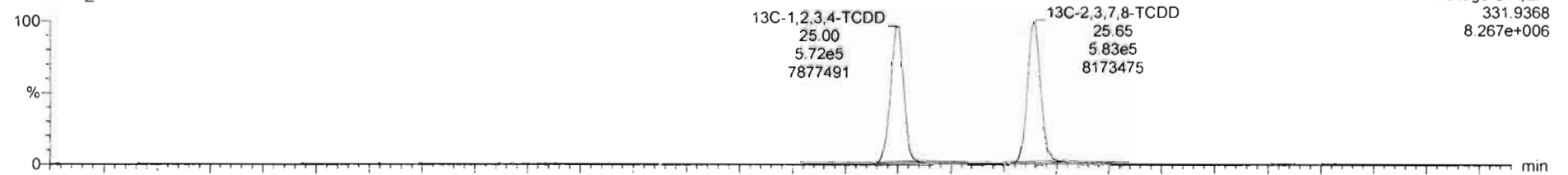
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200205R1_3

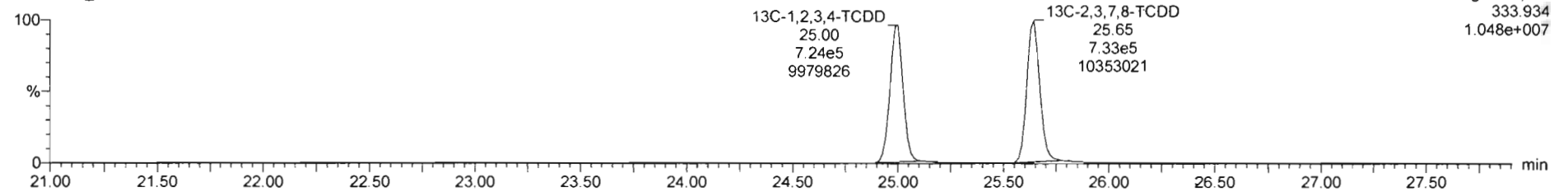


13C-1,2,3,4-TCDD

200205R1_3



200205R1_3



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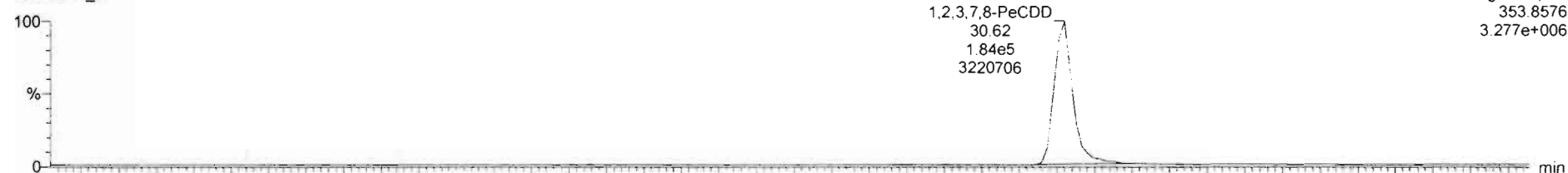
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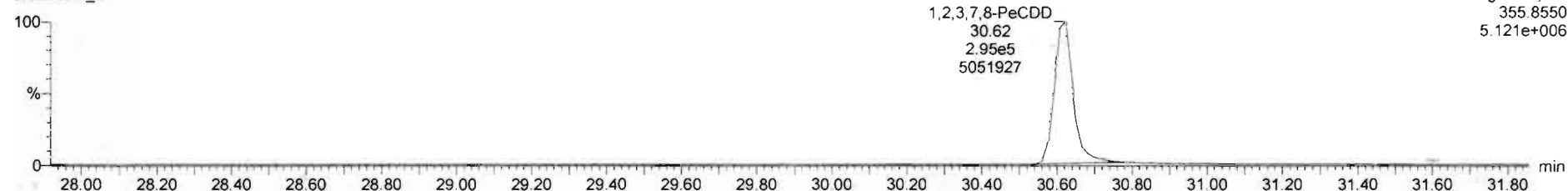
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1,2,3,7,8-PeCDD

200205R1_3

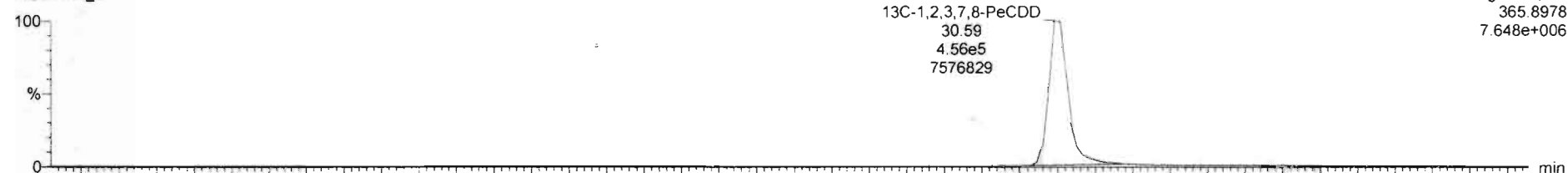


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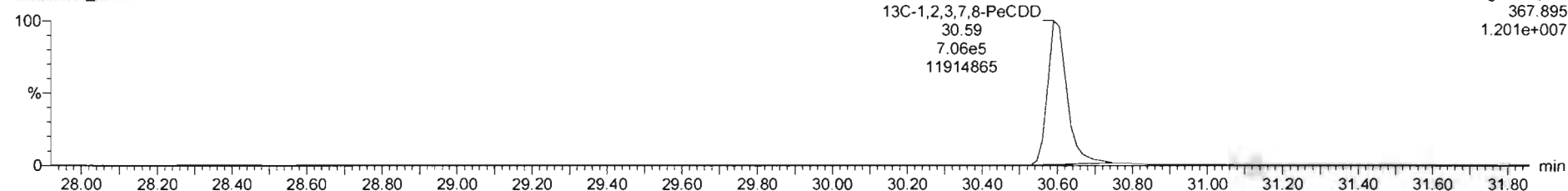


13C-1,2,3,7,8-PeCDD

200205R1_3



200205R1_3



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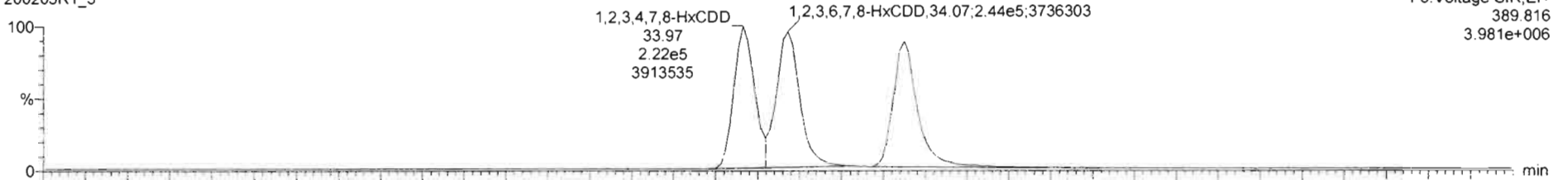
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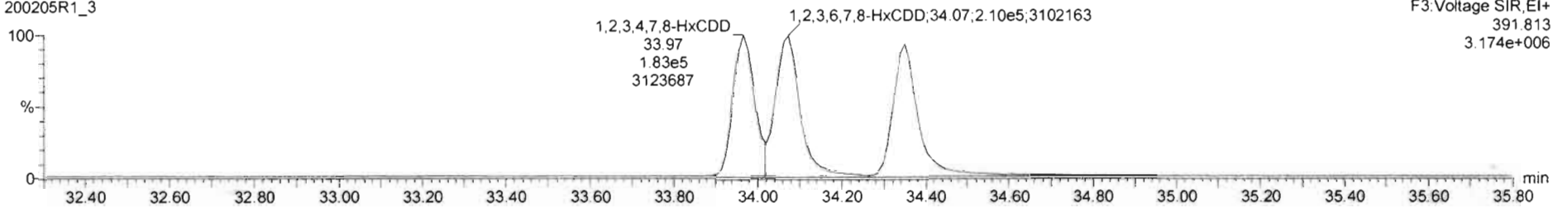
Name: 200205R1_3, Date: 05-Feb-2020, Time: 10:41:14, ID: B0A0040-BS1 OPR 10, Description: OPR

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

200205R1_3

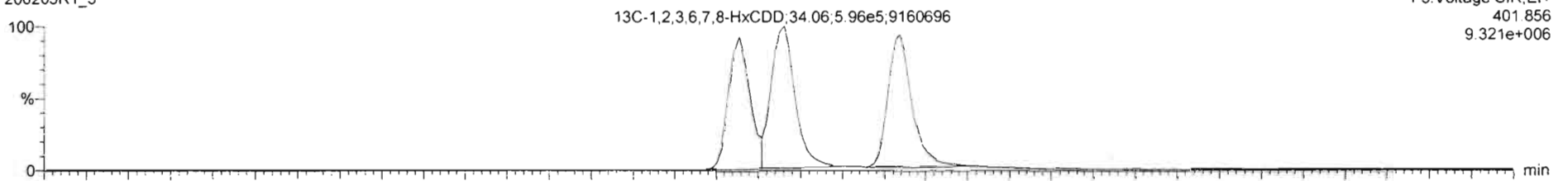


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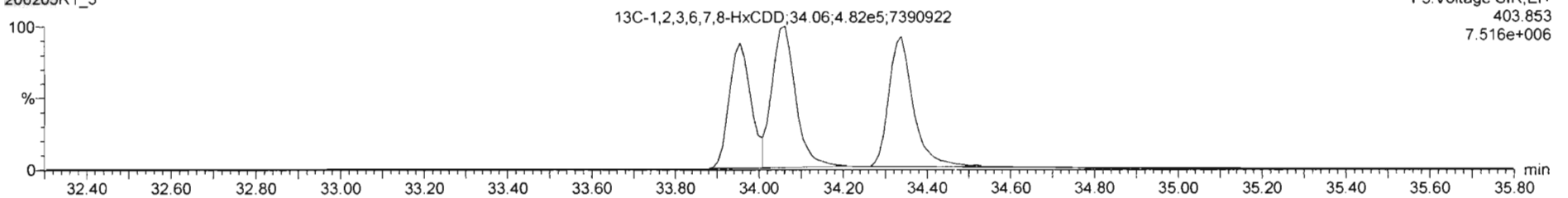


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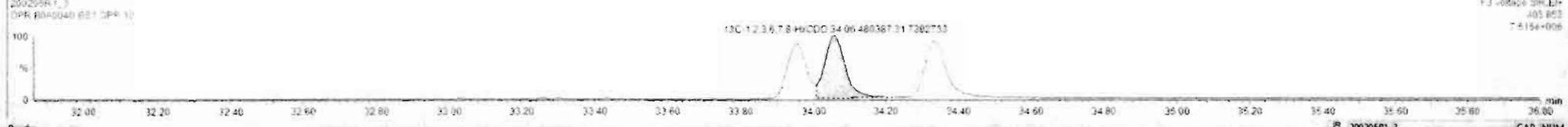
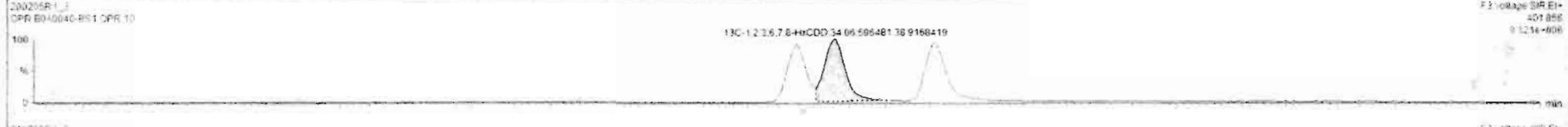
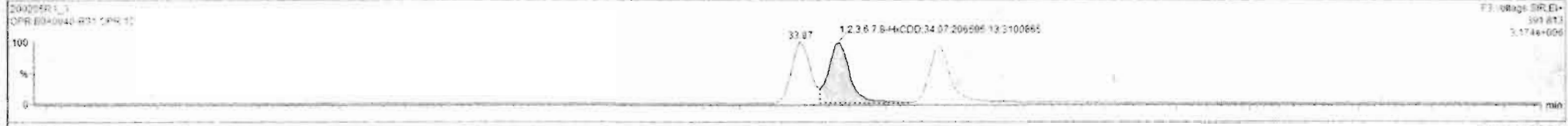
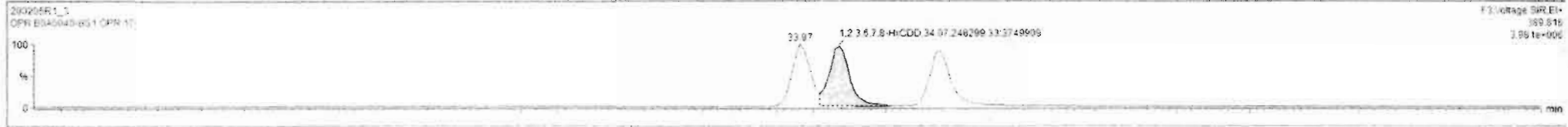
200205R1_3

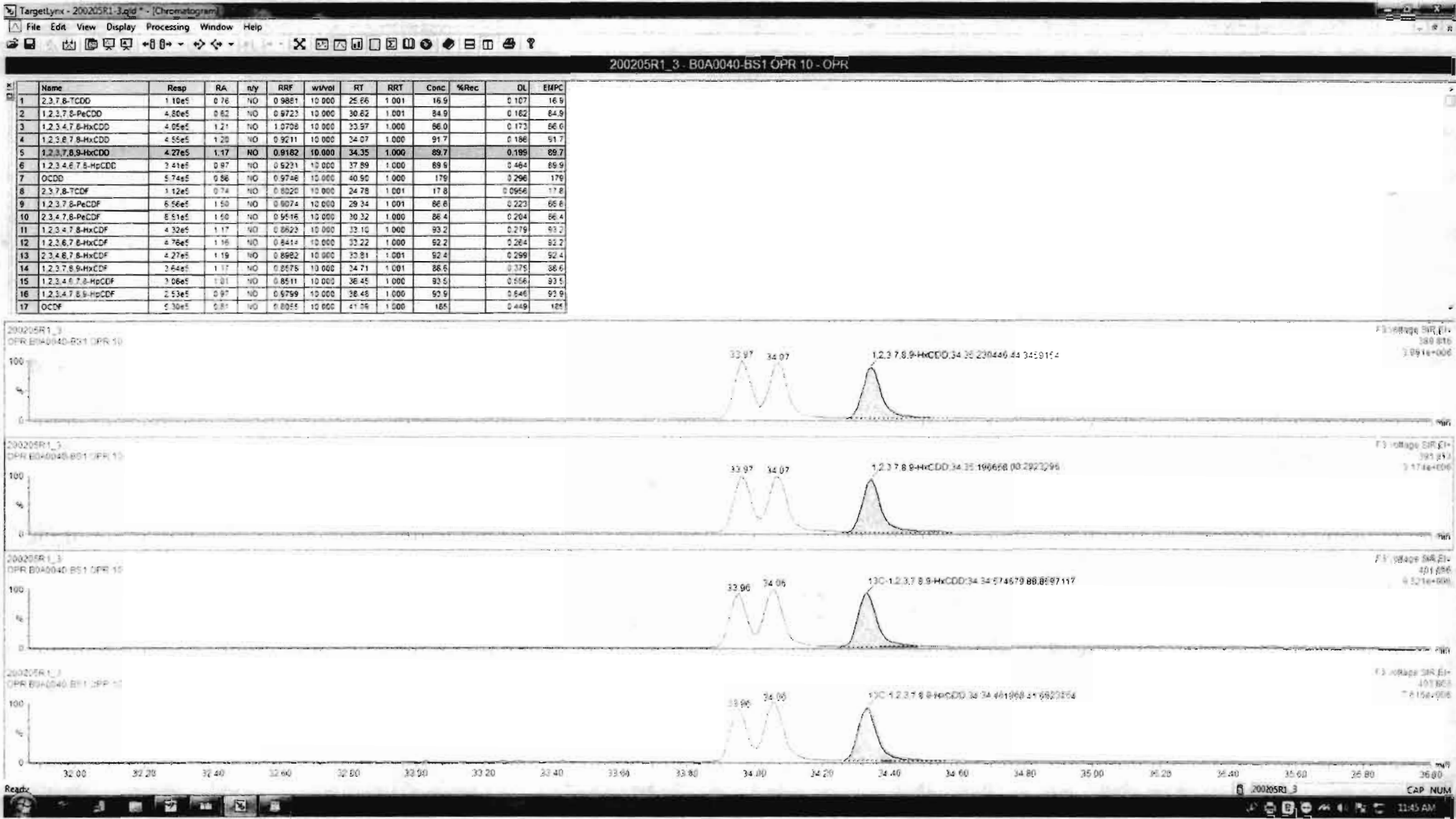


200205R1_3



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.10e5	0.76	NO	0.9881	10.000	25.66	1.001	16.9		0.107	16.5
2	1,2,3,7,8-PeCDD	4.80e5	0.62	NO	0.9727	10.000	30.82	1.001	84.9		0.182	84.9
3	1,2,3,4,7,8-HxCDD	4.05e5	1.21	NO	1.0708	10.000	33.97	1.000	66.0		0.173	66.0
4	1,2,3,6,7,8-HxCDD	4.55e5	1.20	NO	0.9211	10.000	34.07	1.000	91.7		0.186	91.7
5	1,2,3,7,8,9-HxCDD	4.34e5	1.16	NO	0.9182	10.000	34.35	1.000	91.9		0.197	91.9
6	1,2,3,4,6,7,8-HpCDD	2.41e5	0.97	NO	0.9231	10.000	37.85	1.000	89.9		0.464	89.9
7	OCDD	5.74e5	0.56	NO	0.9746	10.000	40.90	1.000	179		0.296	179
8	2,3,7,8-TCDF	1.12e5	0.94	NO	0.8020	10.000	24.78	1.001	17.8		0.0956	17.8
9	1,2,3,7,8-PeCDF	6.56e5	1.50	NO	0.9074	10.000	29.34	1.001	66.6		0.223	66.6
10	2,3,4,7,8-PeCDF	8.51e5	1.50	NO	0.9616	10.000	30.32	1.000	96.4		0.204	96.4
11	1,2,3,4,7,8-HxCDF	4.32e5	1.17	NO	0.8623	10.000	33.10	1.000	93.2		0.279	93.2
12	1,2,3,6,7,8-HxCDF	4.76e5	1.16	NO	0.8414	10.000	33.22	1.000	92.2		0.284	92.2
13	2,3,4,6,7,8-HxCDF	4.27e5	1.19	NO	0.8982	10.000	33.61	1.001	92.4		0.299	92.4
14	1,2,3,7,8,9-HxCDF	2.64e5	1.17	NO	0.8578	10.000	34.71	1.001	88.5		0.275	88.5
15	1,2,3,4,6,7,8-HpCDF	2.08e5	1.01	NO	0.8511	10.000	36.45	1.000	93.5		0.556	93.5
16	1,2,3,4,7,8,9-HpCDF	2.53e5	0.97	NO	0.9799	10.000	38.48	1.000	92.9		0.648	92.9
17	OCDF	5.30e5	0.81	NO	0.8065	10.000	41.06	1.000	165		0.449	165





Dataset: Untitled

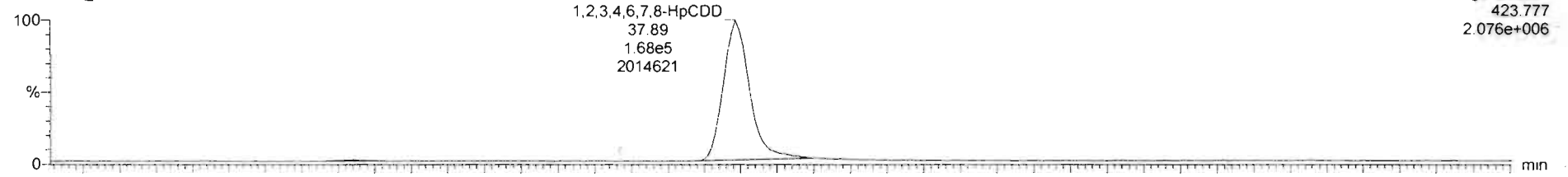
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Printed: Thursday, February 06, 2020 08:54:13 Pacific Standard Time

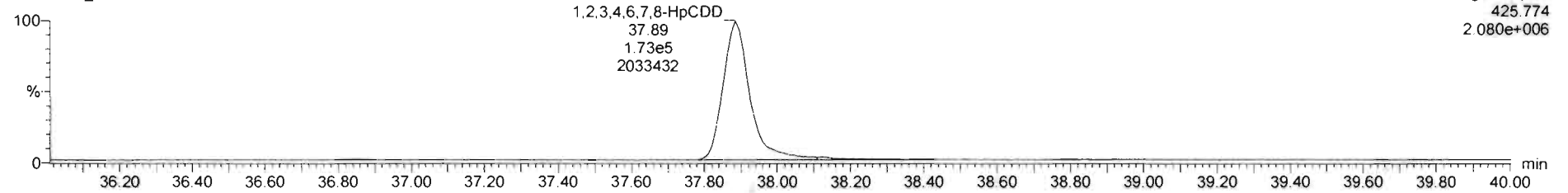
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1,2,3,4,6,7,8-HpCDD

200205R1_3

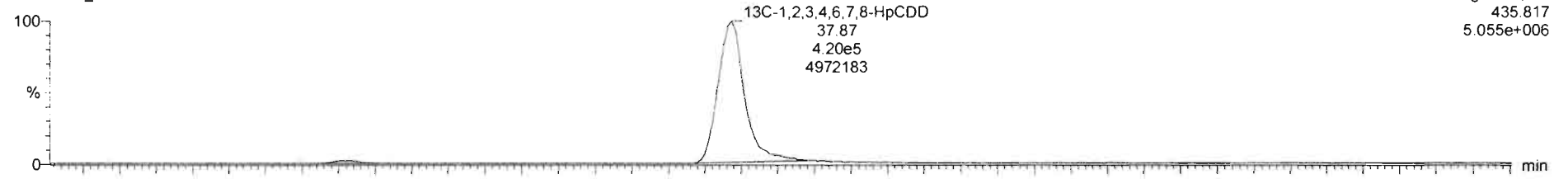


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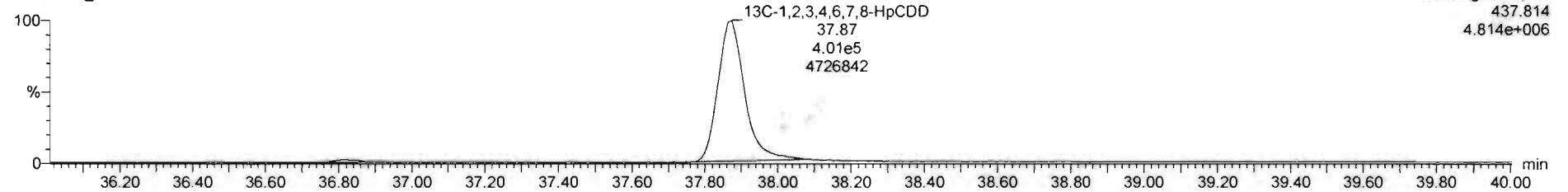


13C-1,2,3,4,6,7,8-HpCDD

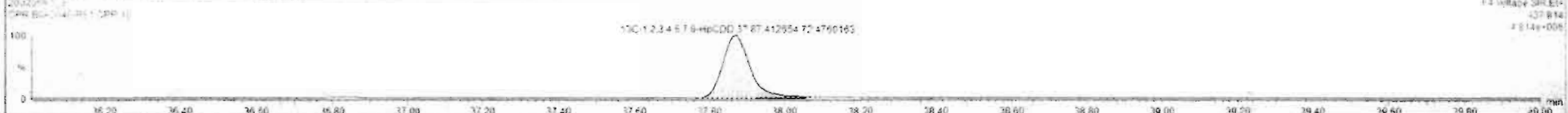
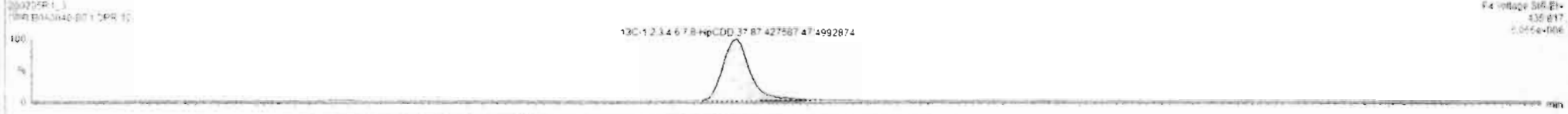
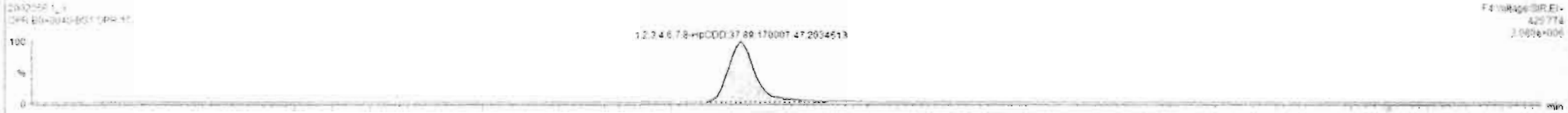
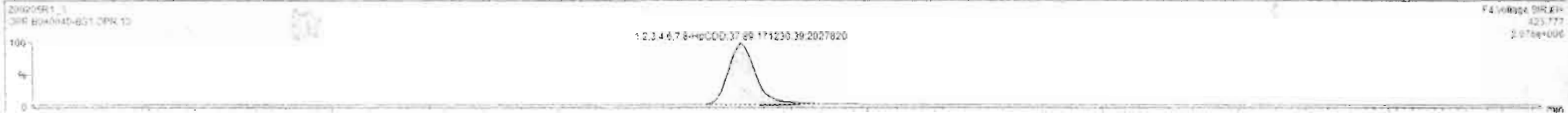
200205R1_3



200205R1_3



#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDD	1.10e5	0.76	NO	0.9801	10.000	25.66	1.001	16.9		0.107	16.9
2	1,2,3,7,8-PeCDD	4.80e5	0.82	NO	0.9722	10.000	30.82	1.001	84.9		0.182	84.9
3	1,2,3,4,7,8-HxCDD	4.05e5	1.21	NO	1.0708	10.000	33.97	1.000	86.0		0.173	86.0
4	1,2,3,6,7,8-HxCDD	4.55e5	1.20	NO	0.9211	10.000	34.27	1.000	91.7		0.186	91.7
5	1,2,3,7,8,9-HxCDD	4.27e5	1.17	NO	0.9182	10.000	34.35	1.000	85.7		0.199	85.7
6	1,2,3,4,6,7,8-HpCDD	3.41e5	1.01	NO	0.9231	10.000	37.89	1.000	86.0		0.458	86.0
7	OCDD	5.74e5	0.86	NO	0.9746	10.000	40.60	1.000	179		0.296	179
8	2,3,7,8-TCDF	1.12e5	0.74	NO	0.8020	10.000	24.78	1.001	17.8		0.0956	17.8
9	1,2,3,7,8-PeCDF	6.56e5	1.50	NO	0.9074	10.000	29.34	1.001	86.6		0.223	86.6
10	2,3,4,7,8-PeCDF	8.51e5	1.50	NO	0.9416	10.000	30.32	1.000	86.4		0.204	86.4
11	1,2,3,4,7,8-HxCDF	4.32e5	1.17	NO	0.8623	10.000	32.10	1.000	93.2		0.279	93.2
12	1,2,3,6,7,8-HxCDF	4.76e5	1.16	NO	0.8414	10.000	32.22	1.000	92.2		0.264	92.2
13	2,3,4,6,7,8-HxCDF	4.27e5	1.19	NO	0.8982	10.000	33.81	1.001	92.4		0.299	92.4
14	1,2,3,7,8,9-HxCDF	3.64e5	1.17	NO	0.8578	10.000	34.71	1.001	88.6		0.375	88.6
15	1,2,3,4,6,7,8-HpCDF	3.06e5	1.01	NO	0.8511	10.000	36.48	1.000	93.5		0.556	93.5
16	1,2,3,4,7,8,9-HpCDF	2.53e5	0.97	NO	0.9759	10.000	38.48	1.000	92.9		0.646	92.9
17	OCDF	5.30e5	0.91	NO	0.8055	10.000	41.06	1.000	184		0.449	184

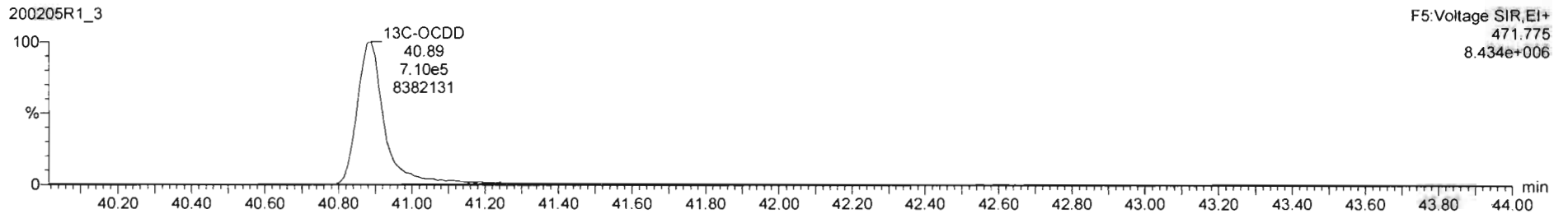
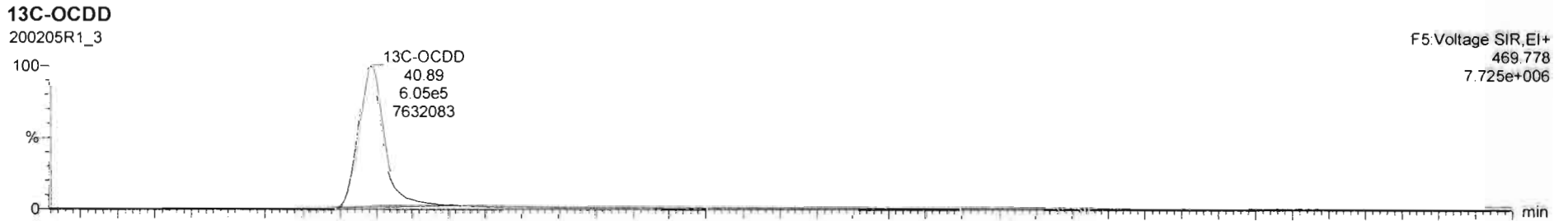
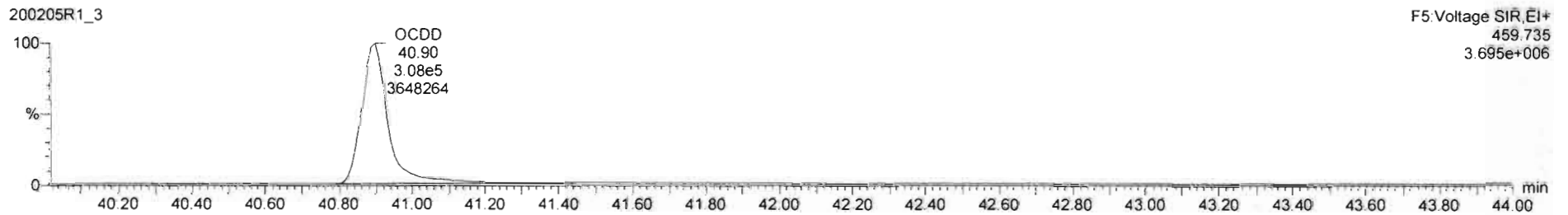
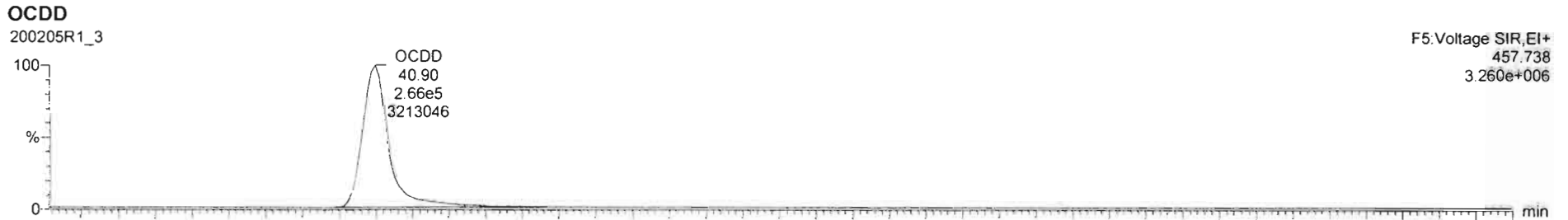


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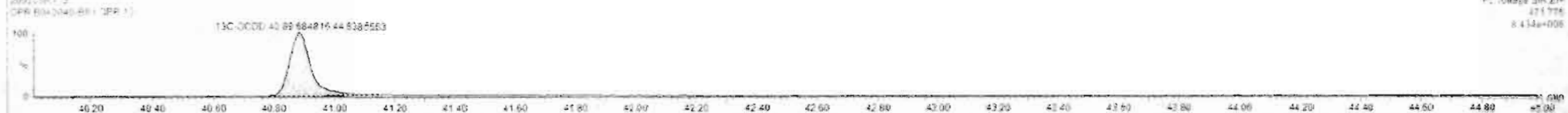
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Name: 200205R1_3, Date: 05-Feb-2020, Time: 10:41:14, ID: B0A0040-BS1 OPR 10, Description: OPR



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.10e5	0.76	NO	0.9881	10.000	25.66	1.001	16.9		0.107	16.9
2 1,2,3,7,8-PeCDD	4.80e5	0.62	NO	0.9723	10.000	30.62	1.001	64.9		0.162	64.9
3 1,2,3,4,7,8-HxCDD	4.05e5	1.21	NO	1.0708	10.000	33.97	1.000	86.0		0.173	86.0
4 1,2,3,6,7,8-HxCDD	4.55e5	1.20	NO	0.9211	10.000	34.07	1.000	91.7		0.186	91.7
5 1,2,3,7,8,9-HxCDD	4.27e5	1.17	NO	0.9162	10.000	34.35	1.000	89.7		0.199	89.7
6 1,2,3,4,6,7,8-HpCDD	3.41e5	1.01	NO	0.9231	10.000	37.89	1.000	88.0		0.459	88.0
7 OCDD	6.43e5	0.88	NO	0.9746	10.000	40.90	1.000	173		0.300	173
8 2,3,7,8-TCDF	1.12e5	0.74	NO	0.8020	10.000	24.78	1.001	17.8		0.0956	17.8
9 1,2,3,7,8-PeCDF	6.56e5	1.50	NO	0.9574	10.000	29.34	1.001	66.6		0.223	66.6
10 2,3,4,7,8-PeCDF	6.51e5	1.50	NO	0.9516	10.000	30.32	1.000	86.4		0.264	86.4
11 1,2,3,4,7,8-HxCDF	4.32e5	1.17	NO	0.8623	10.000	33.10	1.000	93.2		0.279	93.2
12 1,2,3,6,7,8-HxCDF	4.76e5	1.16	NO	0.8414	10.000	33.22	1.000	92.2		0.284	92.2
13 2,3,4,6,7,8-HxCDF	4.27e5	1.19	NO	0.8982	10.000	33.81	1.001	92.4		0.299	92.4
14 1,2,3,7,8,9-HxCDF	3.84e5	1.17	NO	0.8578	10.000	34.71	1.001	88.6		0.375	88.6
15 1,2,3,4,6,7,8-HpCDF	3.08e5	1.01	NO	0.8511	10.000	36.45	1.000	93.5		0.560	93.5
16 1,2,3,4,7,8,9-HpCDF	2.53e5	0.97	NO	0.9799	10.000	38.48	1.000	93.9		0.846	93.9
17 OCDF	5.30e5	0.81	NO	0.8055	10.000	41.06	1.000	165		0.449	165



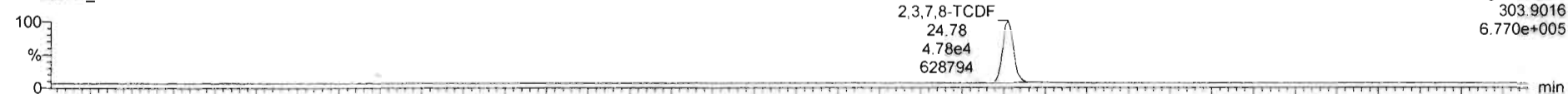
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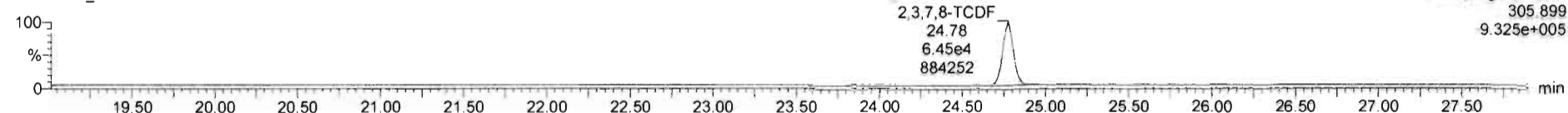
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2,3,7,8-TCDF

200205R1_3

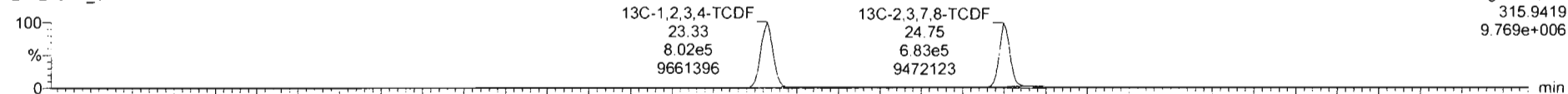


200205R1_3

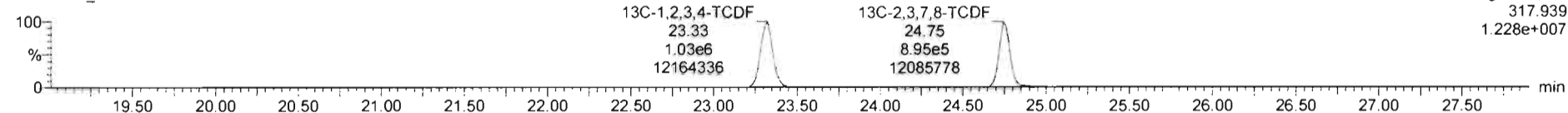


13C-2,3,7,8-TCDF

200205R1_3

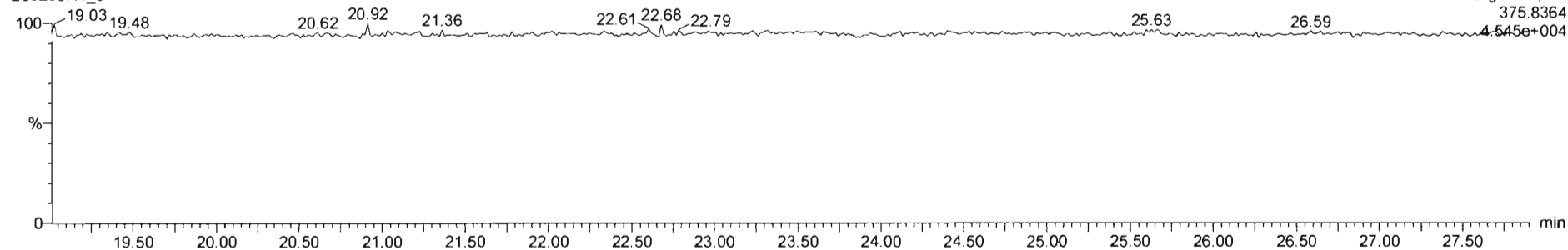


200205R1_3



DPE1

200205R1_3

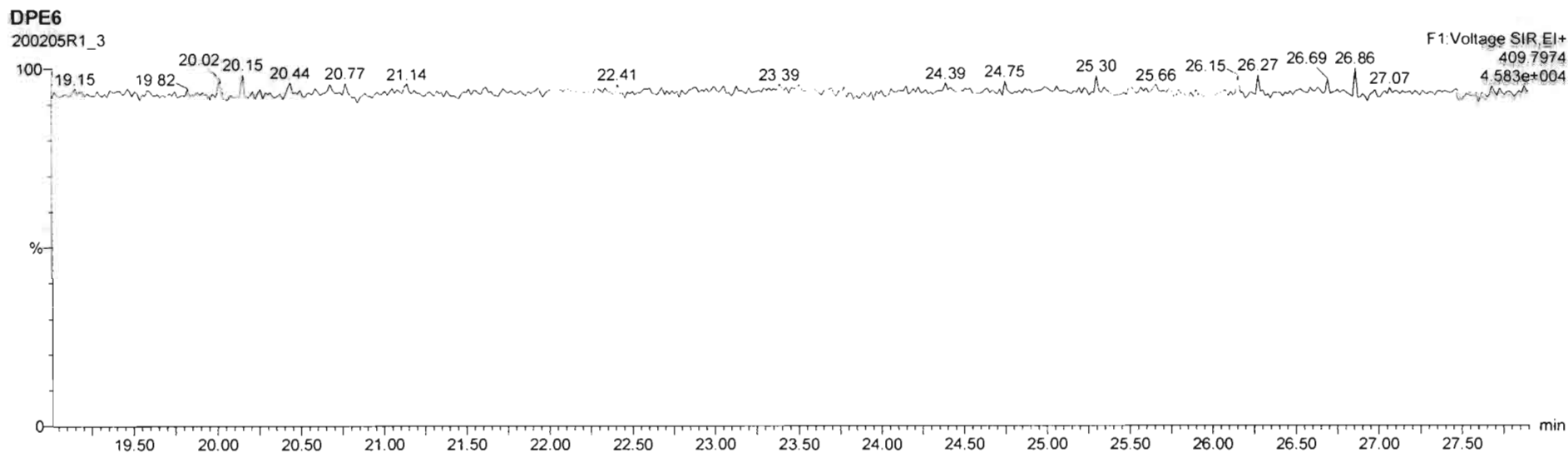
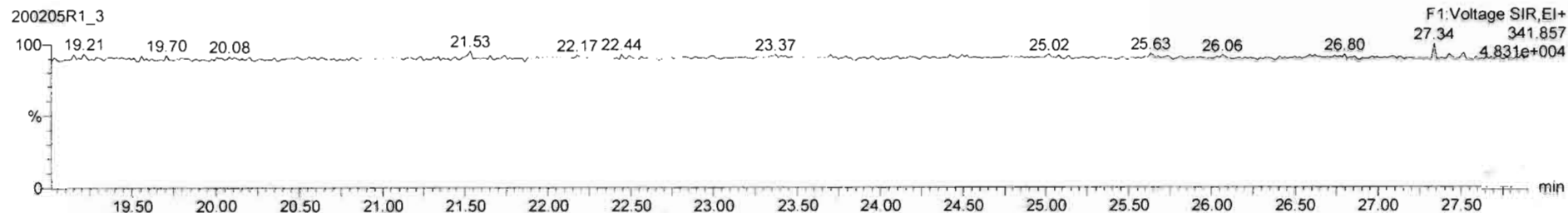
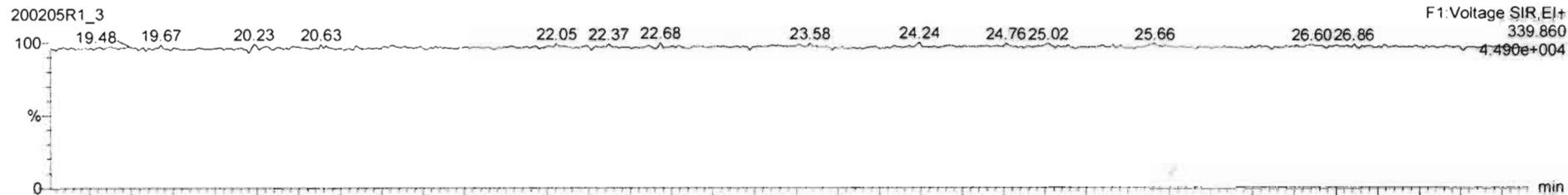


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Last Altered: Thursday, February 06, 2020 08:54:09 Pacific Standard Time
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Name: 200205R1_3, Date: 05-Feb-2020, Time: 10:41:14, ID: B0A0040-BS1 OPR 10, Description: OPR

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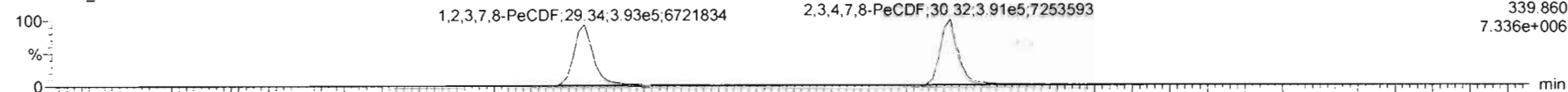
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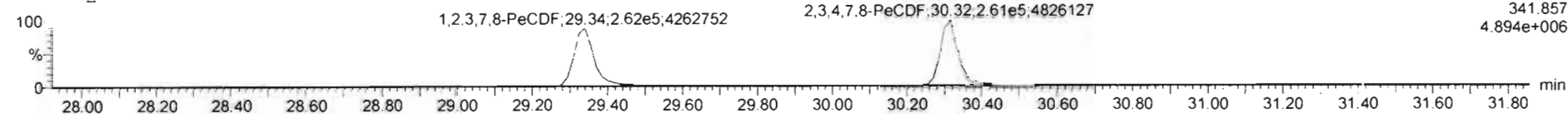
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1,2,3,7,8-PeCDF

200205R1_3

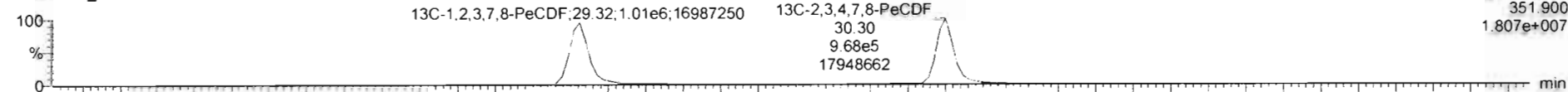


200205R1_3

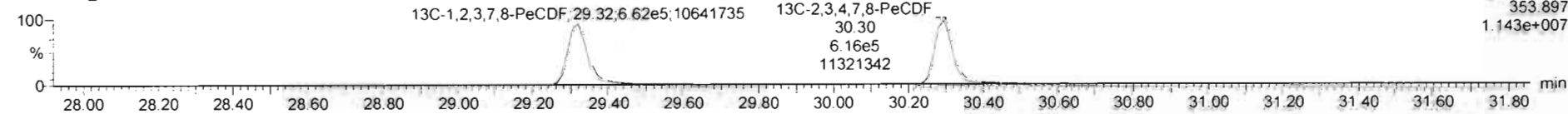


13C-1,2,3,7,8-PeCDF

200205R1_3

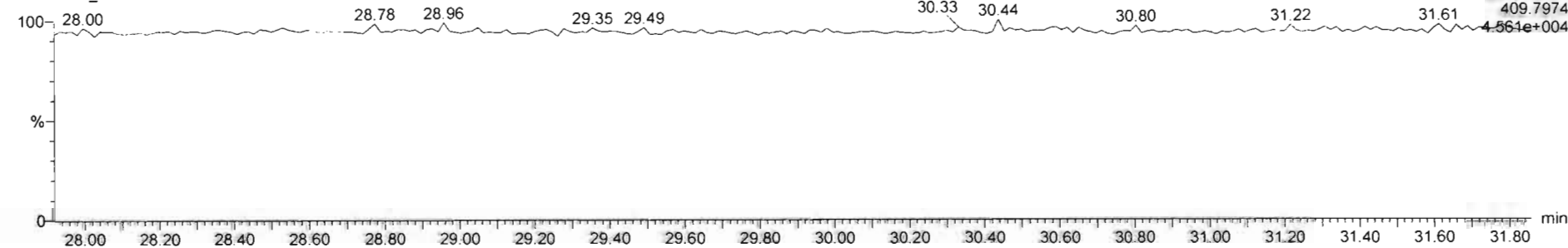


200205R1_3



DPE2

200205R1_3



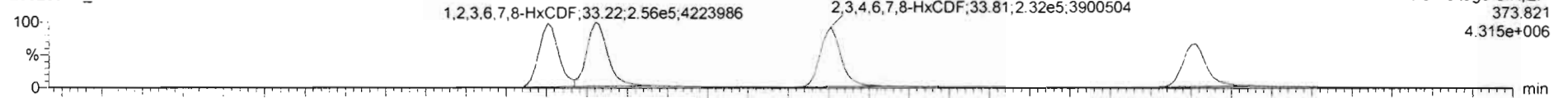
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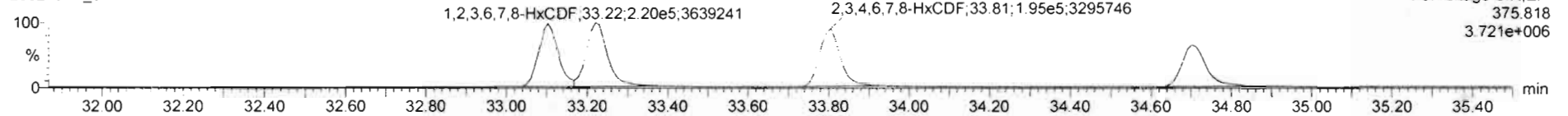
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1,2,3,4,7,8-HxCDF

200205R1_3

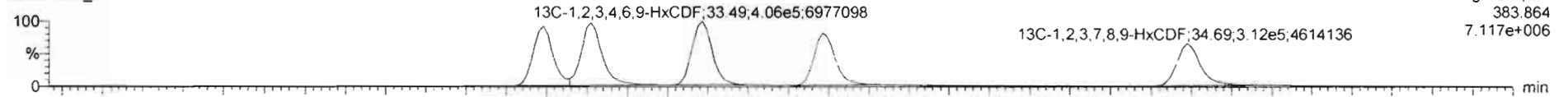


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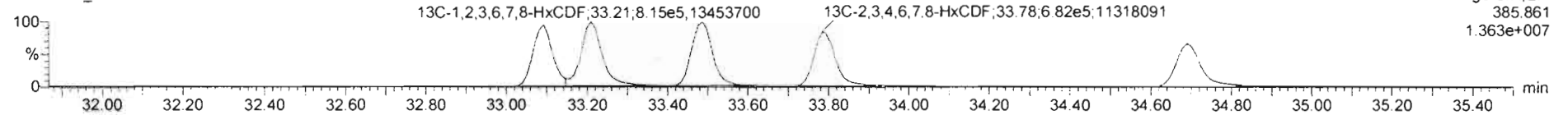


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200205R1_3

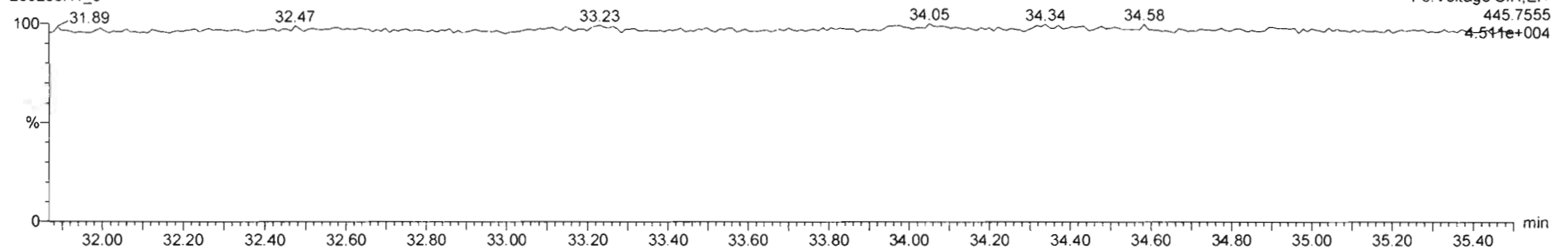


200205R1_3



DPE3

200205R1_3



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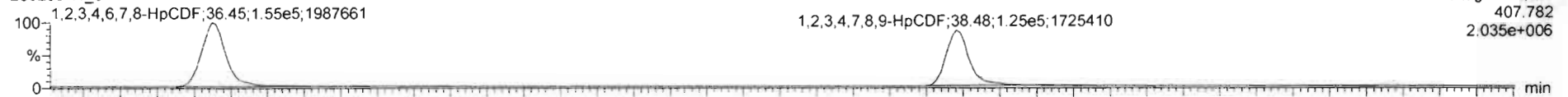
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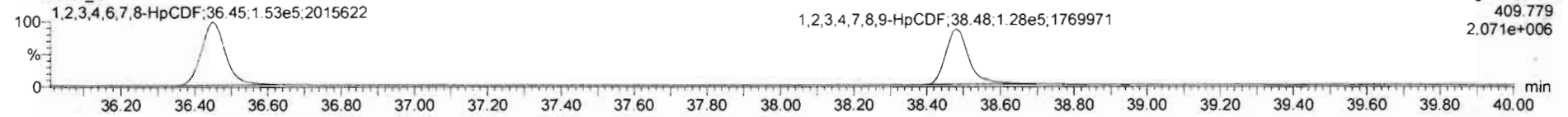
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1,2,3,4,6,7,8-HpCDF

200205R1_3

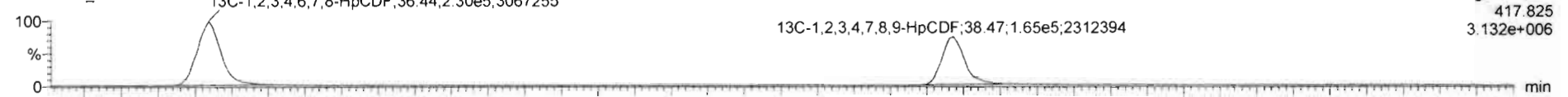


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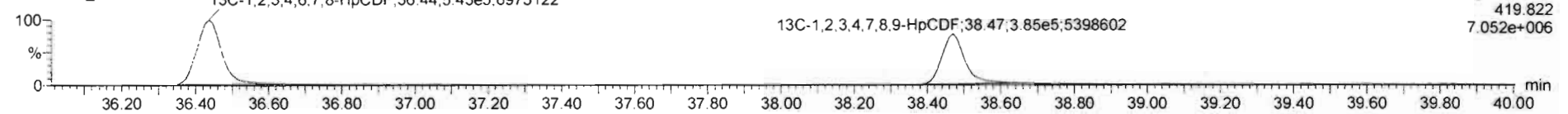


13C-1,2,3,4,6,7,8-HpCDF

200205R1_3

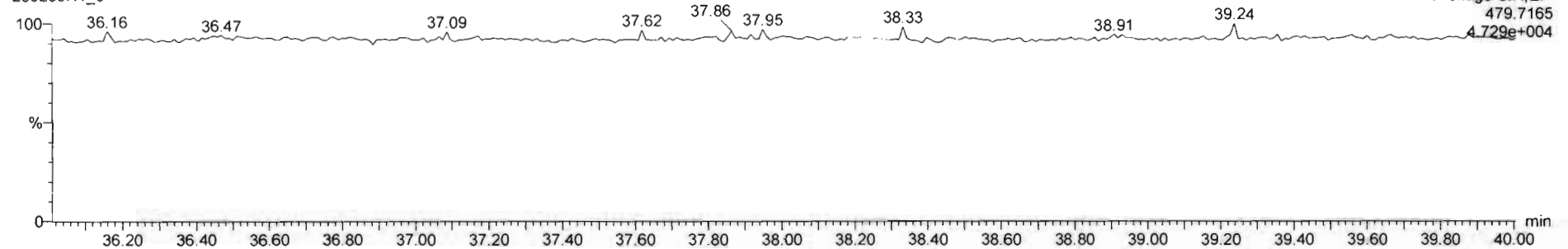


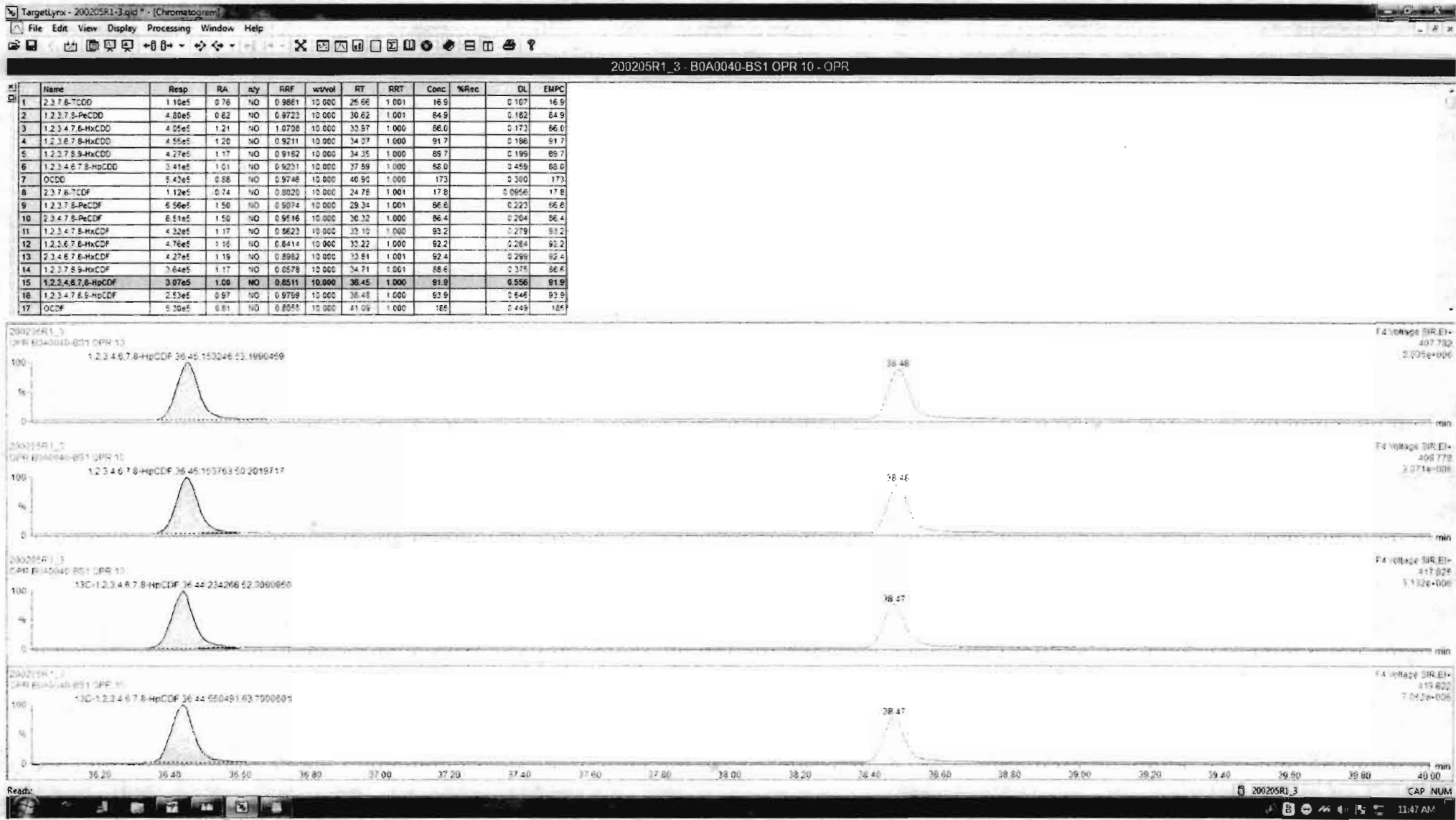
200205R1_3



DPE4

200205R1_3





Name	Resp	RA	nBy	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.18e5	0.76	NO	0.9881	10.000	25.66	1.001	16.9		0.107	16.9
2 1,2,3,4,7,8-PeCDD	4.80e5	0.62	NO	0.6723	10.000	30.62	1.001	84.9		0.162	84.9
3 1,2,3,4,7,8-HxCDD	4.05e5	1.21	NO	1.0708	10.000	33.97	1.000	66.0		0.173	66.0
4 1,2,3,6,7,8-HxCDD	4.55e5	1.20	NO	0.9211	10.000	24.07	1.000	91.7		0.186	91.7
5 1,2,3,7,8-HxCDD	4.27e5	1.17	NO	0.9182	10.000	34.35	1.000	69.7		0.196	69.7
6 1,2,3,4,6,7,8-HpCDD	3.41e5	1.01	NO	0.9231	10.000	37.89	1.000	62.0		0.256	62.0
7 OCDD	5.43e5	0.88	NO	0.9746	10.000	40.90	1.000	173		0.300	173
8 2,3,7,8-TCDF	1.12e5	0.74	NO	0.8020	10.000	24.78	1.001	17.8		0.0956	17.8
9 1,2,3,7,8-PeCDF	6.56e5	1.50	NO	0.9074	10.000	29.34	1.001	86.8		0.223	86.8
10 2,3,4,7,8-PeCDF	6.51e5	1.50	NO	0.9516	10.000	30.32	1.000	86.4		0.204	86.4
11 1,2,3,4,7,8-HxCDF	4.32e5	1.17	NO	0.6623	10.000	33.10	1.000	93.2		0.279	93.2
12 1,2,3,6,7,8-HxCDF	4.76e5	1.16	NO	0.8414	10.000	33.22	1.000	92.2		0.264	92.2
13 2,3,4,6,7,8-HxCDF	4.27e5	1.19	NO	0.8982	10.000	33.81	1.001	62.4		0.269	62.4
14 1,2,3,7,8-HpCDF	7.24e5	1.17	NO	0.8578	10.000	34.71	1.001	88.6		0.375	88.6
15 1,2,3,4,6,7,8-HpCDF	5.07e5	1.00	NO	0.8511	10.000	36.45	1.000	91.9		0.556	91.9
16 1,2,3,4,7,8,9-HpCDF	2.56e5	0.98	NO	0.9799	10.000	38.46	1.000	93.4		0.651	93.4
17 OCDF	5.38e5	0.81	NO	0.8055	10.000	41.04	1.000	185		0.448	185



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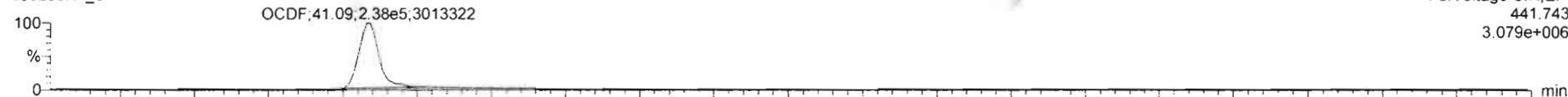
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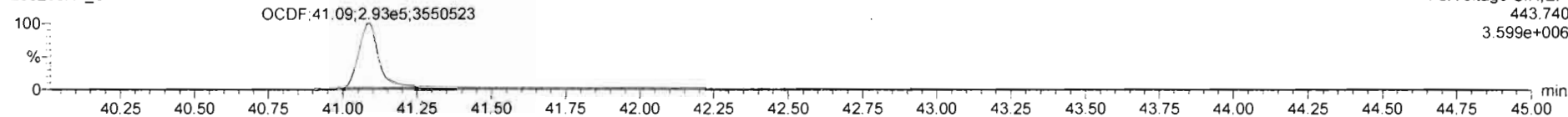
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OCDF

200205R1_3

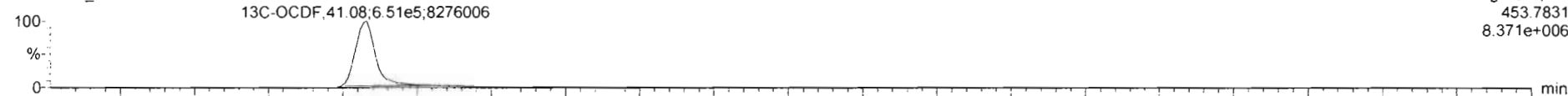


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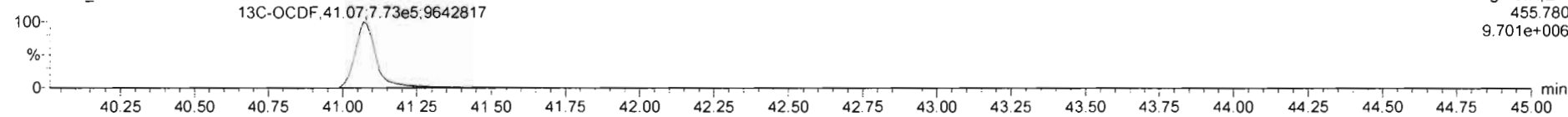


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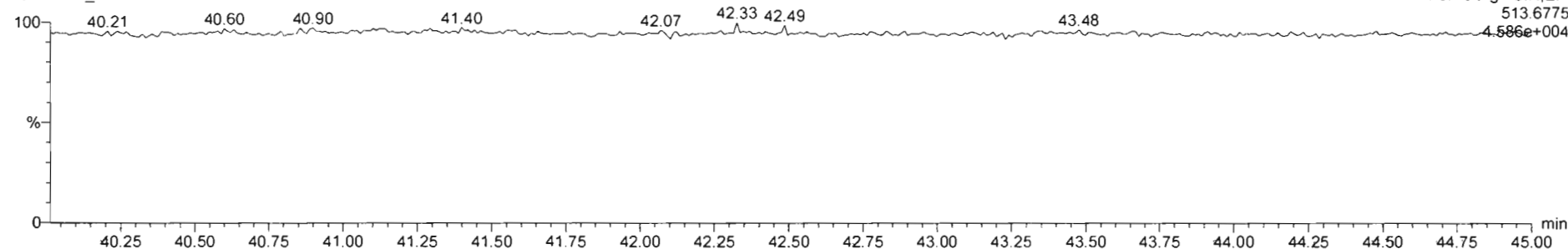


200205R1_3



DPE5

200205R1_3



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.10e5	0.76	NO	0.9881	10.000	25.66	1.001	16.9		0.107	16.9
2 1,2,3,7,8-PeCDD	4.86e5	0.82	NO	0.9723	10.000	30.82	1.001	84.9		0.162	84.9
3 1,2,3,4,7,8-HxCDD	4.05e5	1.21	NO	1.0708	10.000	23.97	1.000	66.0		0.173	66.0
4 1,2,3,6,7,8-HxCDD	4.55e5	1.20	NO	0.9211	10.000	24.07	1.000	91.7		0.186	91.7
5 1,2,3,7,8,9-HxCDD	4.27e5	1.17	NO	0.9182	10.000	24.35	1.000	89.7		0.199	89.7
6 1,2,3,4,6,7,8-HpCDD	3.41e5	1.01	NO	0.9231	10.000	27.89	1.000	82.0		0.459	68.0
7 OCDD	5.42e5	0.88	NO	0.9746	10.000	40.90	1.000	173		0.300	173
8 2,3,7,8-TCDF	1.12e5	0.74	NO	0.8020	10.000	24.78	1.001	17.8		0.0956	17.8
9 1,2,3,7,8-PeCDF	6.56e5	1.50	NO	0.9074	10.000	29.34	1.001	86.6		0.223	86.6
10 2,3,4,7,8-PeCDF	6.51e5	1.50	NO	0.9516	10.000	30.32	1.000	86.4		0.264	86.4
11 1,2,3,4,7,8-HxCDF	4.32e5	1.17	NO	0.8623	10.000	23.10	1.000	93.2		0.279	93.2
12 1,2,3,6,7,8-HxCDF	4.76e5	1.16	NO	0.8414	10.000	22.22	1.000	92.2		0.264	92.2
13 2,3,4,6,7,8-HxCDF	4.27e5	1.19	NO	0.8982	10.000	23.81	1.001	92.4		0.299	92.4
14 1,2,3,7,8,9-HxCDF	3.64e5	1.17	NO	0.8578	10.000	24.71	1.001	88.6		0.375	88.6
15 1,2,3,4,6,7,8-HpCDF	3.07e5	1.00	NO	0.8511	10.000	26.45	1.000	81.9		0.556	81.9
16 1,2,3,4,7,8,9-HpCDF	2.56e5	0.98	NO	0.8749	10.000	26.48	1.000	93.4		0.651	93.4
17 OCDF	5.25e5	0.86	NO	0.8055	10.000	41.06	1.000	184		0.454	184

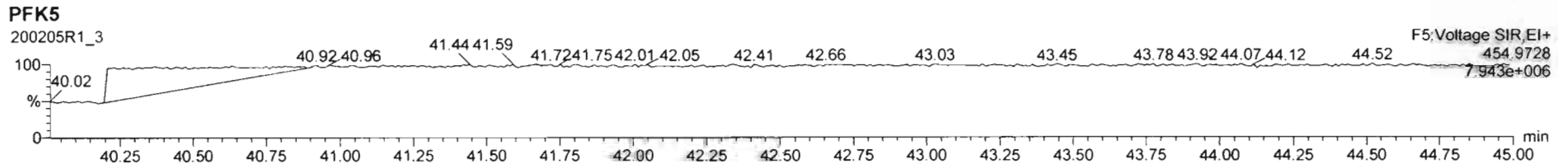
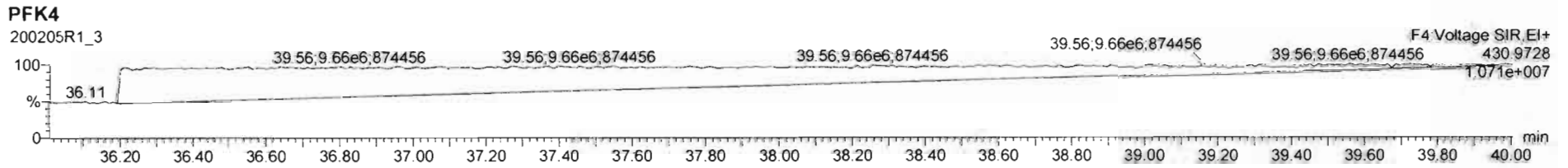
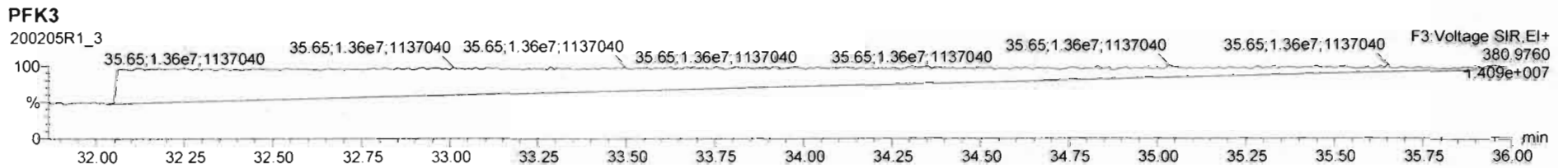
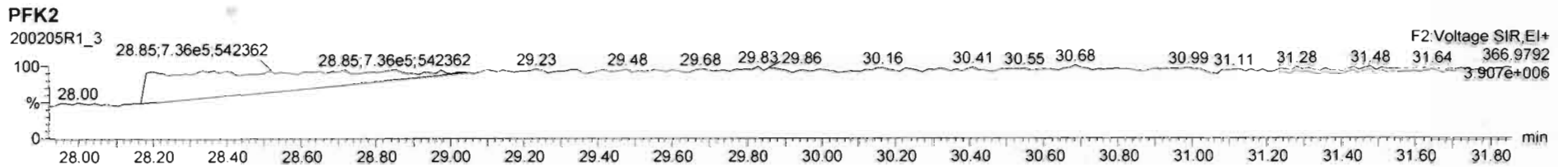
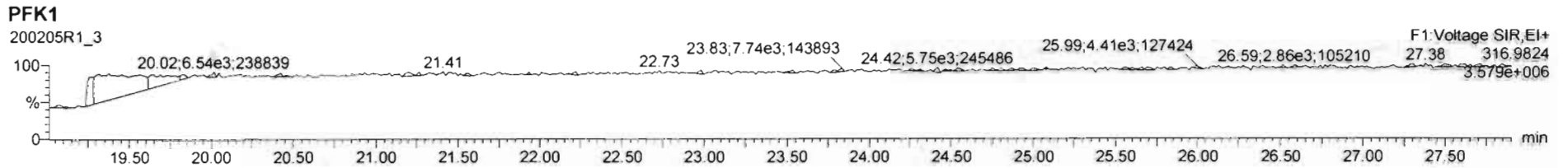


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Dataset: U:\VG12.PRO\Results\200209R1\200209R1-13.qld

Last Altered: Monday, February 10, 2020 13:23:53 Pacific Standard Time

Printed: Monday, February 10, 2020 13:24:36 Pacific Standard Time

GRB 02/10/2020

C703/10/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200209R1_13, Date: 09-Feb-2020, Time: 21:33:39, ID: 1903738-01 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

#	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	4.12e3	0.70	NO	0.988	10.002	25.736	25.72	1.001	1.001	0.49684		0.0957	0.497
2	2 1,2,3,7,8-PeCDD	4.78e3	0.72	NO	0.972	10.002	30.719	30.71	1.001	1.000	0.76336		0.104	0.763
3	3 1,2,3,4,7,8-HxCDD	6.93e3	1.25	NO	1.07	10.002	34.072	34.07	1.000	1.000	1.2305		0.125	1.23
4	4 1,2,3,6,7,8-HxCDD	2.98e4	1.20	NO	0.921	10.002	34.158	34.18	1.000	1.001	5.4024		0.130	5.40
5	5 1,2,3,7,8,9-HxCDD	1.41e4	1.38	NO	0.918	10.002	34.469	34.46	1.001	1.001	2.6458		0.141	2.65
6	6 1,2,3,4,6,7,8-HpCDD	5.51e5	1.03	NO	0.923	10.002	37.961	37.97	1.000	1.001	125.35		0.569	125
7	7 OCDD	3.59e6	0.89	NO	0.975	10.002	40.985	40.99	1.000	1.000	976.66		0.509	977
8	8 2,3,7,8-TCDF	1.86e5	0.78	NO	0.802	10.002	24.817	24.82	1.001	1.001	19.494	(16.9)	0.0889	19.5
9	9 1,2,3,7,8-PeCDF	1.43e5	1.54	NO	0.907	10.002	29.422	29.42	1.001	1.001	16.922		0.0963	16.9
10	10 2,3,4,7,8-PeCDF	7.54e4	1.54	NO	0.952	10.002	30.407	30.41	1.001	1.001	8.8128		0.0989	8.81
11	11 1,2,3,4,7,8-HxCDF	1.69e5	1.22	NO	0.862	10.002	33.199	33.21	1.000	1.000	28.553		0.104	28.6
12	12 1,2,3,6,7,8-HxCDF	5.17e4	1.22	NO	0.841	10.002	33.326	33.34	1.000	1.001	8.4060		0.103	8.41
13	13 2,3,4,6,7,8-HxCDF	1.94e4	1.15	NO	0.898	10.002	33.925	33.90	1.001	1.000	3.1124		0.108	3.11
14	14 1,2,3,7,8,9-HxCDF	1.09e4	1.10	NO	0.858	10.002	34.786	34.83	1.000	1.001	2.0797		0.149	2.08
15	15 1,2,3,4,6,7,8-HpCDF	1.29e5	1.00	NO	0.851	10.002	36.559	36.53	1.001	1.000	29.882		0.263	29.9
16	16 1,2,3,4,7,8,9-HpCDF	2.34e4	1.01	NO	0.980	10.002	38.556	38.57	1.000	1.000	6.2604		0.271	6.26
17	17 OCDF	2.64e5	0.87	NO	0.806	10.002	41.166	41.18	1.000	1.000	74.548		0.230	74.5
18	18 13C-2,3,7,8-TCDD	1.68e6	0.78	NO	1.20	10.002	25.706	25.70	1.026	1.026	200.57	100	0.186	
19	19 13C-1,2,3,7,8-PeCDD	1.29e6	0.63	NO	0.967	10.002	30.450	30.70	1.215	1.225	191.03	95.5	0.223	
20	20 13C-1,2,3,4,7,8-HxCDD	1.05e6	1.27	NO	0.874	10.002	34.063	34.06	1.014	1.014	162.20	81.1	0.386	
21	21 13C-1,2,3,6,7,8-HxCDD	1.20e6	1.24	NO	1.05	10.002	34.164	34.16	1.017	1.017	154.42	77.2	0.323	
22	22 13C-1,2,3,7,8,9-HxCDD	1.16e6	1.25	NO	0.974	10.002	34.466	34.44	1.026	1.025	161.11	80.6	0.347	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.52e5	1.04	NO	0.747	10.002	38.027	37.95	1.132	1.130	171.82	85.9	0.328	
24	24 13C-OCDD	1.51e6	0.90	NO	0.707	10.002	40.916	40.99	1.218	1.220	287.63	71.9	0.368	
25	25 13C-2,3,7,8-TCDF	2.37e6	0.78	NO	1.07	10.002	24.887	24.79	0.993	0.989	188.41	94.2	0.294	
26	26 13C-1,2,3,7,8-PeCDF	1.87e6	1.57	NO	1.00	10.002	29.222	29.40	1.166	1.173	157.48	78.8	0.304	
27	27 13C-2,3,4,7,8-PeCDF	1.80e6	1.62	NO	0.962	10.002	30.175	30.38	1.204	1.212	158.08	79.1	0.316	
28	28 13C-1,2,3,4,7,8-HxCDF	1.37e6	0.51	NO	1.05	10.002	33.190	33.20	0.988	0.988	176.48	88.3	0.403	
29	29 13C-1,2,3,6,7,8-HxCDF	1.46e6	0.52	NO	1.19	10.002	33.291	33.32	0.991	0.992	165.65	82.8	0.356	
30	30 13C-2,3,4,6,7,8-HxCDF	1.39e6	0.51	NO	1.07	10.002	33.899	33.89	1.009	1.009	175.83	87.9	0.397	
31	31 13C-1,2,3,7,8,9-HxCDF	1.22e6	0.52	NO	0.922	10.002	34.802	34.79	1.036	1.036	179.02	89.5	0.459	

Dataset: U:\VG12.PRO\Results\200209R1\200209R1-13.qld

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Name: 200209R1_13, Date: 09-Feb-2020, Time: 21:33:39, ID: 1903738-01 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.02e6	0.45	NO	0.767	10.002	36.549	36.52	1.088	1.087	178.59	89.3	0.401	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.64e5	0.44	NO	0.552	10.002	38.565	38.56	1.148	1.148	186.39	93.2	0.556	
34	34 13C-OCDF	1.76e6	0.89	NO	0.789	10.002	41.151	41.17	1.225	1.225	300.68	75.2	0.284	
35	35 37Cl-2,3,7,8-TCDD	6.52e5			1.18	10.002	25.739	25.72	1.027	1.026	79.468	99.4	0.0751	
36	36 13C-1,2,3,4-TCDD	1.39e6	0.80	NO	1.00	10.002	25.080	25.06	1.000	1.000	199.96	100	0.223	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.79	NO	1.00	10.002	23.420	23.35	1.000	1.000	199.96	100	0.313	
38	38 13C-1,2,3,4,6,9-HxCDF	1.48e6	0.51	NO	1.00	10.002	33.520	33.59	1.000	1.000	199.96	100	0.423	
39	39 Total Tetra-Dioxins				0.988	10.002	24.620		0.000		9.4363		0.0957	9.92
40	40 Total Penta-Dioxins				0.972	10.002	29.960		0.000		8.6205		0.104	9.84
41	41 Total Hexa-Dioxins				0.921	10.002	33.635		0.000		52.009		0.138	52.0
42	42 Total Hepta-Dioxins				0.923	10.002	37.640		0.000		297.77		0.569	298
43	43 Total Tetra-Furans				0.802	10.002	23.610		0.000		60.872		0.0889	62.8
44	44 1st Func. Penta-Furans				0.907	10.002	27.090		0.000		7.8937		0.0342	7.89
45	45 Total Penta-Furans				0.907	10.002	29.275		0.000		49.311		0.100	51.1
46	46 Total Hexa-Furans				0.898	10.002	33.555		0.000		78.916		0.111	79.0
47	47 Total Hepta-Furans				0.851	10.002	37.835		0.000		104.49		0.284	104

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200209R1\200209R1-13.qld

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Name: 200209R1_13, Date: 09-Feb-2020, Time: 21:33:39, ID: 1903738-01 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.71	7.596e4	9.824e4	7.218e3	8.820e3	0.82	NO	1.604e4	1.9364	1.9364	0.0957
2	Total Tetra-Dioxins	22.13	3.604e4	4.406e4	3.113e3	4.071e3	0.76	NO	7.184e3	0.86737	0.86737	0.0957
3	Total Tetra-Dioxins	22.65	1.065e4	1.628e4	8.498e2	1.214e3	0.70	NO	2.064e3	0.24916	0.24916	0.0957
4	Total Tetra-Dioxins	23.53	2.033e4	1.985e4	1.667e3	1.693e3	0.98	YES	0.000e0	0.00000	0.36180	0.0957
5	Total Tetra-Dioxins	23.77	1.490e4	1.456e4	1.226e3	1.471e3	0.83	NO	2.697e3	0.32566	0.32566	0.0957
6	Total Tetra-Dioxins	24.01	1.496e4	1.723e4	1.029e3	1.432e3	0.72	NO	2.460e3	0.29707	0.29707	0.0957
7	Total Tetra-Dioxins	24.21	6.038e3	8.118e3	4.646e2	6.516e2	0.71	NO	1.116e3	0.13477	0.13477	0.0957
8	Total Tetra-Dioxins	24.48	5.915e3	8.029e3	5.155e2	5.813e2	0.89	YES	0.000e0	0.00000	0.12423	0.0957
9	Total Tetra-Dioxins	24.67	1.315e4	1.062e4	5.870e2	8.349e2	0.70	NO	1.422e3	0.17168	0.17168	0.0957
10	Total Tetra-Dioxins	25.00	8.116e3	8.308e3	7.621e2	9.409e2	0.81	NO	1.703e3	0.20562	0.20562	0.0957
11	Total Tetra-Dioxins	25.47	2.395e5	2.896e5	1.627e4	2.103e4	0.77	NO	3.730e4	4.5036	4.5036	0.0957
12	2,3,7,8-TCDD	25.72	2.365e4	3.983e4	1.699e3	2.416e3	0.70	NO	4.115e3	0.49684	0.49684	0.0957
13	Total Tetra-Dioxins	26.07	8.333e3	9.541e3	5.631e2	6.744e2	0.83	NO	1.237e3	0.14941	0.14941	0.0957
14	Total Tetra-Dioxins	26.69	4.799e3	6.656e3	3.263e2	4.916e2	0.66	NO	8.179e2	0.098748	0.098748	0.0957

Dataset: U:\VG12.PRO\Results\200209R1\200209R1-13.qld

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Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.49	8.969e4	1.429e5	6.911e3	1.130e4	0.61	NO	1.821e4	2.9082	2.9082	0.104
2	Total Penta-Dioxins	28.97	3.031e4	4.666e4	1.603e3	2.354e3	0.68	NO	3.957e3	0.63203	0.63203	0.104
3	Total Penta-Dioxins	29.00	1.344e4	4.599e4	7.138e2	3.226e3	0.22	YES	0.000e0	0.00000	0.29498	0.104
4	Total Penta-Dioxins	29.46	6.270e4	1.013e5	3.489e3	5.697e3	0.61	NO	9.186e3	1.4672	1.4672	0.104
5	Total Penta-Dioxins	29.63	4.037e4	6.255e4	2.046e3	3.629e3	0.56	NO	5.675e3	0.90652	0.90652	0.104
6	Total Penta-Dioxins	29.72	5.203e4	7.085e4	2.464e3	4.029e3	0.61	NO	6.493e3	1.0371	1.0371	0.104
7	Total Penta-Dioxins	29.92	2.564e4	4.114e4	1.022e3	1.577e3	0.65	NO	0.000e0	0.00000	0.41500	0.104
8	Total Penta-Dioxins	29.98	2.475e4	3.527e4	1.248e3	1.928e3	0.65	NO	0.000e0	0.00000	0.50730	0.104
9	Total Penta-Dioxins	30.29	1.404e4	2.346e4	9.075e2	1.297e3	0.70	NO	2.205e3	0.35219	0.35219	0.104
10	1,2,3,7,8-PeCDD	30.71	3.639e4	5.321e4	2.004e3	2.775e3	0.72	NO	4.779e3	0.76336	0.76336	0.104
11	Total Penta-Dioxins	30.81	9.180e3	1.139e4	4.792e2	7.619e2	0.63	NO	1.241e3	0.19824	0.19824	0.104
12	Total Penta-Dioxins	31.09	1.318e4	2.295e4	8.288e2	1.397e3	0.59	NO	2.226e3	0.35558	0.35558	0.104

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.60	8.872e5	7.040e5	4.992e4	4.006e4	1.25	NO	8.998e4	17.163	17.163	0.138
2	Total Hexa-Dioxins	33.15	1.742e5	1.474e5	1.119e4	9.195e3	1.22	NO	2.038e4	3.8884	3.8884	0.138
3	Total Hexa-Dioxins	33.40	7.504e5	6.028e5	5.547e4	4.426e4	1.25	NO	9.973e4	19.025	19.025	0.138
4	Total Hexa-Dioxins	33.52	6.782e4	7.044e4	4.806e3	4.213e3	1.14	NO	9.019e3	1.7204	1.7204	0.138
5	1,2,3,4,7,8-HxCDD	34.07	6.239e4	4.667e4	3.842e3	3.086e3	1.25	NO	6.929e3	1.2305	1.2305	0.125
6	1,2,3,6,7,8-HxCDD	34.18	2.322e5	1.828e5	1.626e4	1.356e4	1.20	NO	2.981e4	5.4024	5.4024	0.130
7	Total Hexa-Dioxins	34.36	4.143e4	3.194e4	2.603e3	2.292e3	1.14	NO	4.895e3	0.93378	0.93378	0.138
8	1,2,3,7,8,9-HxCDD	34.46	1.210e5	8.487e4	8.199e3	5.950e3	1.38	NO	1.415e4	2.6458	2.6458	0.141

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	36.93	4.377e6	4.229e6	3.843e5	3.738e5	1.03	NO	7.580e5	172.42	172.42	0.569
2	1,2,3,4,6,7,8-HpCDD	37.97	3.031e6	2.902e6	2.792e5	2.720e5	1.03	NO	5.511e5	125.35	125.35	0.569

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Name: 200209R1_13, Date: 09-Feb-2020, Time: 21:33:39, ID: 1903738-01 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.66	2.548e4	3.541e4	1.926e3	2.703e3	0.71	NO	4.629e3	0.48622	0.48622	0.0889
2	Total Tetra-Furans	20.17	2.869e4	3.263e4	2.092e3	2.749e3	0.76	NO	4.841e3	0.50855	0.50855	0.0889
3	Total Tetra-Furans	20.75	1.403e5	1.988e5	1.205e4	1.704e4	0.71	NO	2.909e4	3.0560	3.0560	0.0889
4	Total Tetra-Furans	21.29	4.971e4	6.624e4	7.272e3	9.693e3	0.75	NO	1.696e4	1.7820	1.7820	0.0889
5	Total Tetra-Furans	21.68	2.262e5	2.985e5	2.188e4	2.919e4	0.75	NO	5.108e4	5.3651	5.3651	0.0889
6	Total Tetra-Furans	22.14	1.035e5	1.222e5	9.370e3	1.158e4	0.81	NO	2.095e4	2.2005	2.2005	0.0889
7	Total Tetra-Furans	22.31	2.055e4	2.546e4	1.737e3	2.458e3	0.71	NO	4.195e3	0.44065	0.44065	0.0889
8	Total Tetra-Furans	22.52	5.499e4	7.086e4	5.182e3	6.829e3	0.76	NO	1.201e4	1.2617	1.2617	0.0889
9	Total Tetra-Furans	22.97	1.214e4	1.783e4	1.213e3	1.609e3	0.75	NO	2.822e3	0.29646	0.29646	0.0889
10	Total Tetra-Furans	23.10	1.812e4	2.282e4	1.420e3	1.926e3	0.74	NO	3.346e3	0.35144	0.35144	0.0889
11	Total Tetra-Furans	23.25	6.759e4	8.883e4	5.109e3	6.792e3	0.75	NO	1.190e4	1.2501	1.2501	0.0889
12	Total Tetra-Furans	23.37	1.405e5	1.667e5	1.380e4	1.728e4	0.80	NO	3.108e4	3.2649	3.2649	0.0889
13	Total Tetra-Furans	23.88	8.085e5	1.054e6	6.468e4	8.484e4	0.76	NO	1.495e5	15.707	15.707	0.0889
14	Total Tetra-Furans	24.16	4.571e4	5.658e4	3.439e3	4.374e3	0.79	NO	7.814e3	0.82076	0.82076	0.0889
15	Total Tetra-Furans	24.39	1.486e4	1.785e4	1.401e3	1.808e3	0.78	NO	3.210e3	0.33714	0.33714	0.0889
16	Total Tetra-Furans	24.58	1.601e4	2.336e4	9.825e2	1.364e3	0.72	NO	2.347e3	0.24652	0.24652	0.0889
17	Total Tetra-Furans	24.72	1.496e5	1.892e5	9.862e3	1.322e4	0.75	NO	2.308e4	2.4243	2.4243	0.0889
18	2.3.7.8-TCDF	24.82	1.100e6	1.429e6	8.118e4	1.044e5	0.78	NO	1.856e5	19.494	19.494	0.0889
19	Total Tetra-Furans	25.20	7.664e4	9.591e4	5.877e3	6.900e3	0.85	NO	1.278e4	1.3421	1.3421	0.0889
20	Total Tetra-Furans	25.45	1.414e4	1.756e4	9.848e2	1.273e3	0.77	NO	2.258e3	0.23720	0.23720	0.0889
21	Total Tetra-Furans	26.83	1.357e5	1.617e5	9.602e3	1.038e4	0.93	YES	0.000e0	0.00000	1.9300	0.0889

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	6.410e5	3.996e5	4.026e4	2.535e4	1.59	NO	6.561e4	7.8937	7.8937	0.0342

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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	28.29	8.589e4	5.368e4	5.369e3	3.778e3	1.42	NO	9.147e3	1.1005	1.1005	0.100
2	Total Penta-Furans	28.42	8.730e5	5.564e5	5.656e4	3.571e4	1.58	NO	9.227e4	11.101	11.101	0.100
3	Total Penta-Furans	28.49	8.448e4	6.217e4	3.542e3	2.340e3	1.51	NO	5.882e3	0.70768	0.70768	0.100
4	Total Penta-Furans	28.81	1.363e4	1.145e4	8.911e2	6.221e2	1.43	NO	1.513e3	0.18205	0.18205	0.100
5	Total Penta-Furans	29.02	1.378e5	8.780e4	8.763e3	6.111e3	1.43	NO	0.000e0	0.00000	1.7894	0.100
6	Total Penta-Furans	29.08	3.887e4	3.705e4	1.722e3	1.258e3	1.37	NO	2.980e3	0.35847	0.35847	0.100
7	Total Penta-Furans	29.23	1.906e5	1.205e5	9.932e3	6.155e3	1.61	NO	1.609e4	1.9353	1.9353	0.100
8	1,2,3,7,8-PeCDF	29.42	1.618e6	1.085e6	8.681e4	5.644e4	1.54	NO	1.433e5	16.922	16.922	0.0963
9	Total Penta-Furans	29.69	4.839e5	3.034e5	2.874e4	1.773e4	1.62	NO	4.647e4	5.5905	5.5905	0.100
10	Total Penta-Furans	30.21	8.945e3	7.894e3	7.242e2	4.970e2	1.46	NO	1.221e3	0.14692	0.14692	0.100
11	Total Penta-Furans	30.29	5.081e4	2.556e4	2.378e3	1.476e3	1.61	NO	3.854e3	0.46364	0.46364	0.100
12	2,3,4,7,8-PeCDF	30.41	7.982e5	5.255e5	4.569e4	2.971e4	1.54	NO	7.540e4	8.8128	8.8128	0.0989
13	Total Penta-Furans	30.44	3.912e5	2.171e5	7.814e3	4.737e3	1.65	NO	1.255e4	1.5100	1.5100	0.100
14	Total Penta-Furans	31.34	5.456e4	2.810e4	2.465e3	1.533e3	1.61	NO	3.997e3	0.48092	0.48092	0.100

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.05	2.271e5	2.001e5	1.289e4	1.080e4	1.19	NO	2.368e4	3.8690	3.8690	0.111
2	Total Hexa-Furans	32.21	7.892e5	6.606e5	4.343e4	3.630e4	1.20	NO	7.974e4	13.025	13.025	0.111
3	Total Hexa-Furans	32.57	2.110e4	1.989e4	1.409e3	1.142e3	1.23	NO	2.551e3	0.41670	0.41670	0.111
4	Total Hexa-Furans	32.75	1.006e6	8.466e5	5.739e4	4.743e4	1.21	NO	1.048e5	17.123	17.123	0.111
5	Total Hexa-Furans	33.11	3.164e4	3.046e4	1.821e3	1.310e3	1.39	NO	3.131e3	0.51152	0.51152	0.111
6	1,2,3,4,7,8-HxCDF	33.21	1.556e6	1.285e6	9.292e4	7.620e4	1.22	NO	1.691e5	28.553	28.553	0.104
7	1,2,3,6,7,8-HxCDF	33.34	4.230e5	3.547e5	2.845e4	2.327e4	1.22	NO	5.172e4	8.4060	8.4060	0.103
8	Total Hexa-Furans	33.46	1.064e4	9.657e3	5.962e2	4.864e2	1.23	NO	1.083e3	0.17684	0.17684	0.111
9	Total Hexa-Furans	33.61	1.544e4	1.141e4	1.095e3	9.247e2	1.18	NO	2.019e3	0.32988	0.32988	0.111
10	Total Hexa-Furans	33.72	6.028e3	6.680e3	2.880e2	2.745e2	1.05	YES	0.000e0	0.00000	0.084987	0.111
11	2,3,4,6,7,8-HxCDF	33.90	1.474e5	1.370e5	1.039e4	9.053e3	1.15	NO	1.944e4	3.1124	3.1124	0.108
12	1,2,3,7,8,9-HxCDF	34.83	1.076e5	1.024e5	5.725e3	5.203e3	1.10	NO	1.093e4	2.0797	2.0797	0.149
13	Total Hexa-Furans	34.84	1.180e5	1.001e5	4.386e3	3.654e3	1.20	NO	8.039e3	1.3132	1.3132	0.111

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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	36.53	7.373e5	7.423e5	6.463e4	6.463e4	1.00	NO	1.293e5	29.882	29.882	0.263
2	Total Hepta-Furans	36.94	1.855e4	1.722e4	1.807e3	1.619e3	1.12	NO	3.426e3	0.90453	0.90453	0.284
3	Total Hepta-Furans	37.14	1.375e6	1.382e6	1.279e5	1.276e5	1.00	NO	2.555e5	67.443	67.443	0.284
4	1,2,3,4,7,8,9-HpCDF	38.57	1.428e5	1.416e5	1.179e4	1.164e4	1.01	NO	2.343e4	6.2604	6.2604	0.271

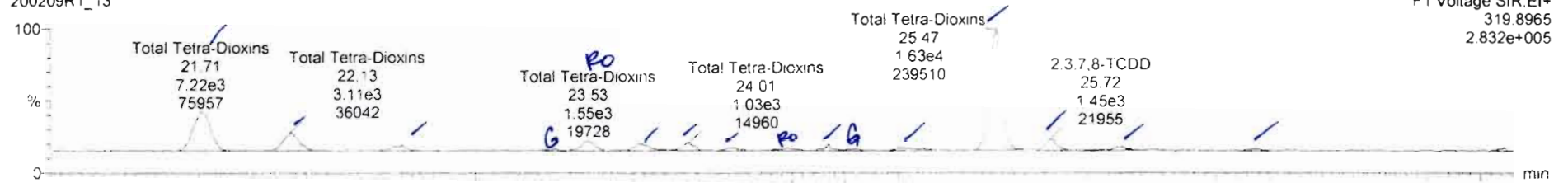
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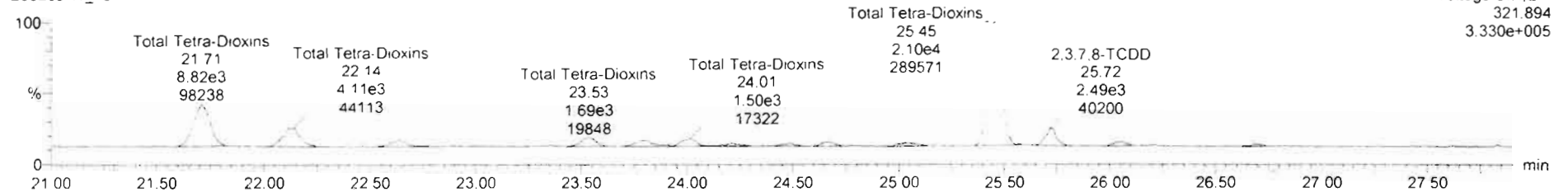
2,3,7,8-TCDD

200209R1_13



F1: Voltage SIR, EI+
319.8965
2.832e+005

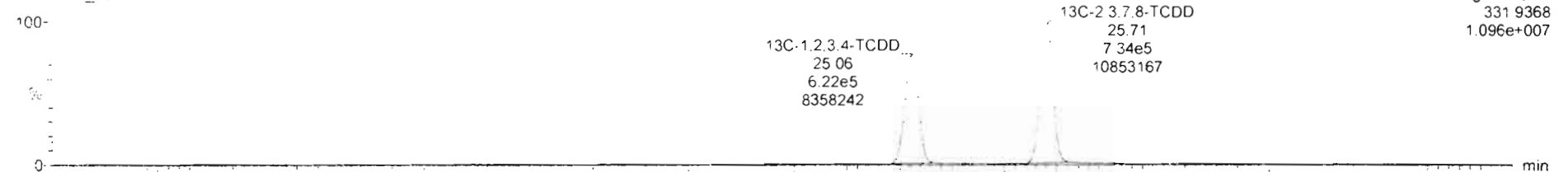
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F1: Voltage SIR, EI+
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3.330e+005

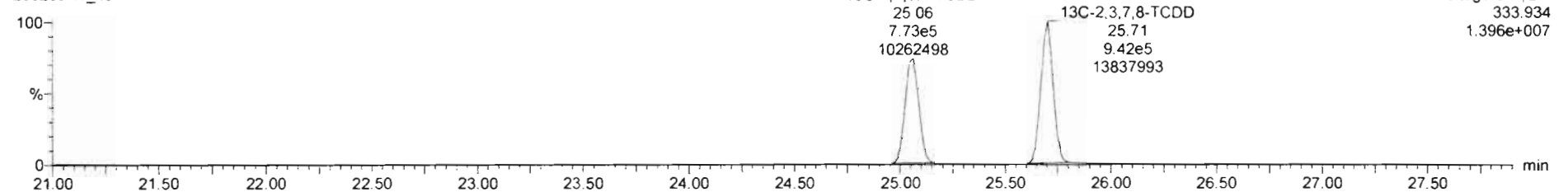
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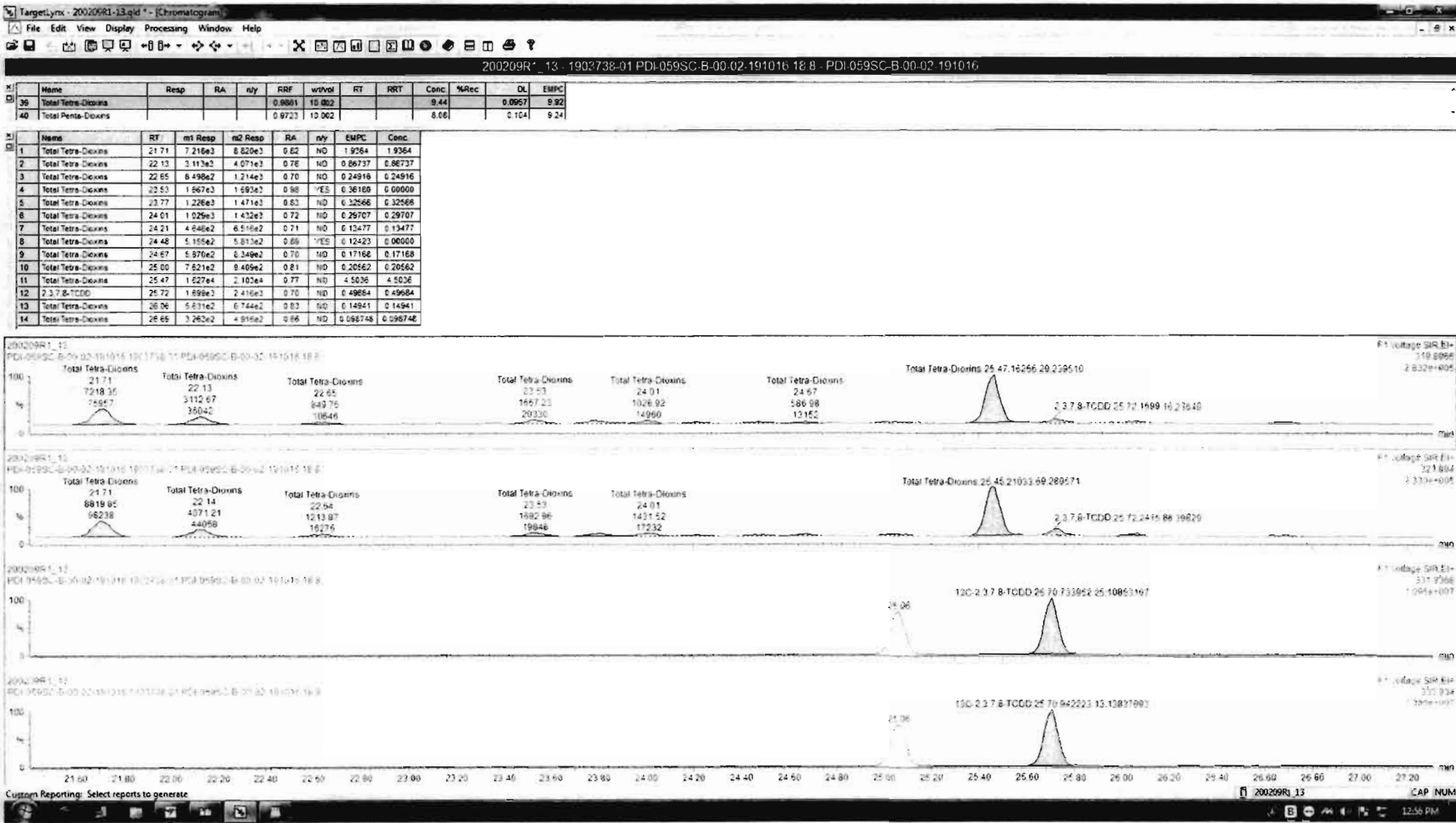


F1: Voltage SIR, EI+
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1.096e+007

200209R1_13

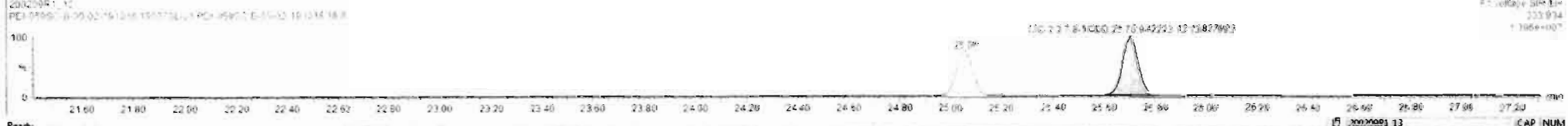
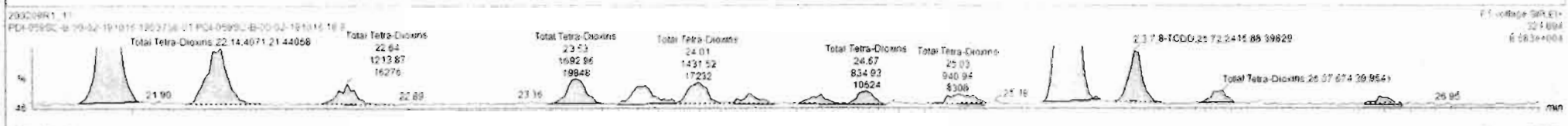
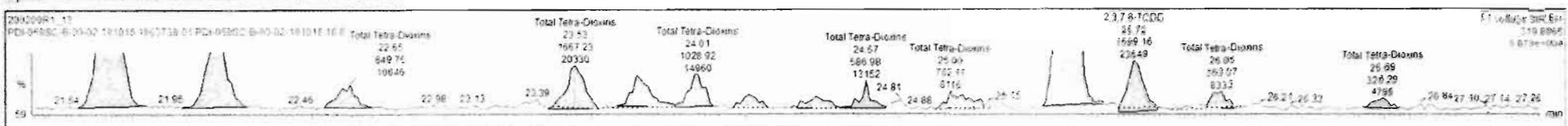


F1: Voltage SIR, EI+
333.934
1.396e+007



#	Name	Resp	RA	nly	RRF	wtVot	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.002			9.44		0.0957	9.92
40	Total Penta-Dioxins				0.9723	10.002			8.06		0.104	9.24

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Tetra-Dioxins	21.71	7.218e3	8.820e3	0.82	NO	1.9364	1.9364
2	Total Tetra-Dioxins	22.13	3.113e3	4.071e3	0.78	NO	6.86737	0.86737
3	Total Tetra-Dioxins	22.65	6.498e2	1.214e3	0.70	NO	0.24916	0.24916
4	Total Tetra-Dioxins	23.53	1.667e3	1.593e3	0.98	EE	0.38160	0.00000
5	Total Tetra-Dioxins	23.77	1.226e3	1.471e3	0.83	NO	0.32586	0.32586
6	Total Tetra-Dioxins	24.01	1.025e3	1.432e3	0.72	NO	0.29707	0.29707
7	Total Tetra-Dioxins	24.21	4.846e2	6.519e2	0.71	NO	0.13477	0.13477
8	Total Tetra-Dioxins	24.48	5.155e2	5.813e2	0.88	EE	0.12423	0.00000
9	Total Tetra-Dioxins	24.67	5.870e2	8.349e2	0.70	NO	0.17168	0.17168
10	Total Tetra-Dioxins	25.00	7.621e2	9.409e2	0.81	NO	0.20562	0.20562
11	Total Tetra-Dioxins	25.47	1.827e4	2.103e4	0.77	NO	4.5036	4.5036
12	2,3,7,8-TCDD	25.72	1.699e3	2.416e3	0.70	NO	0.49884	0.49884
13	Total Tetra-Dioxins	26.06	5.831e2	0.744e2	0.83	NO	0.14841	0.14841
14	Total Tetra-Dioxins	26.65	3.263e2	4.915e2	0.66	NO	0.088748	0.088748



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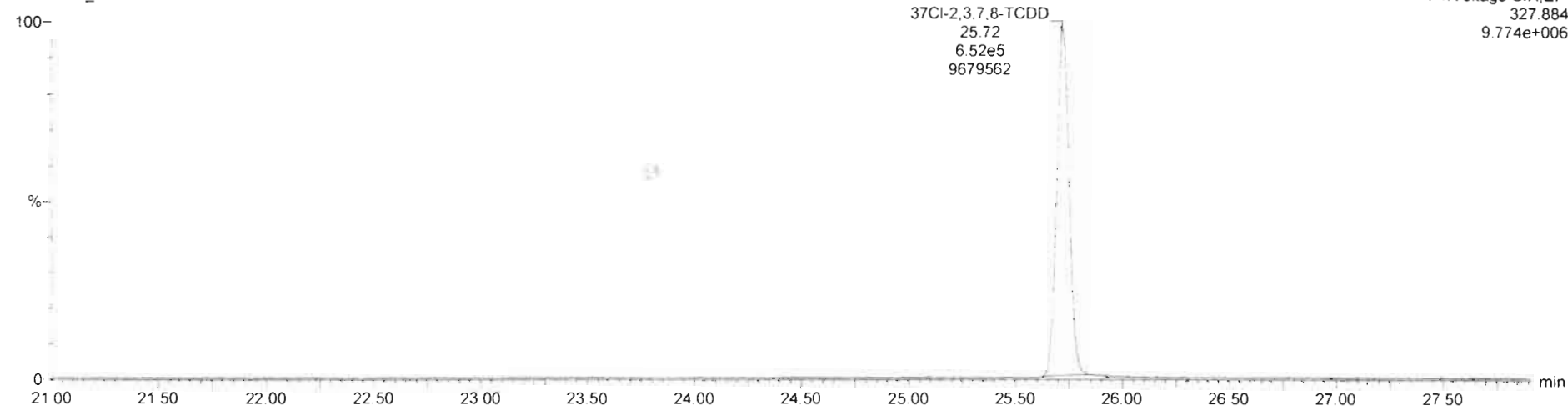
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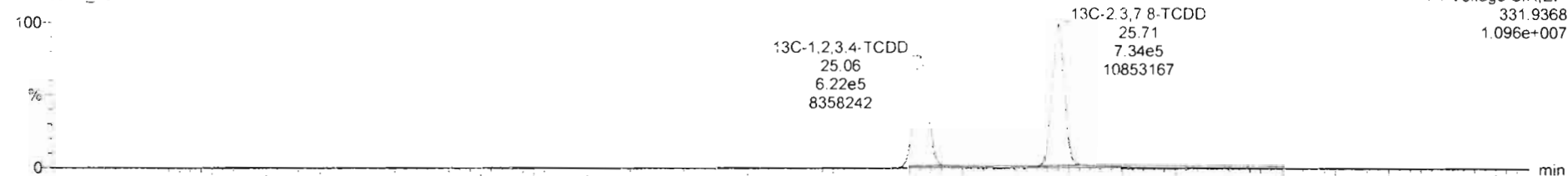
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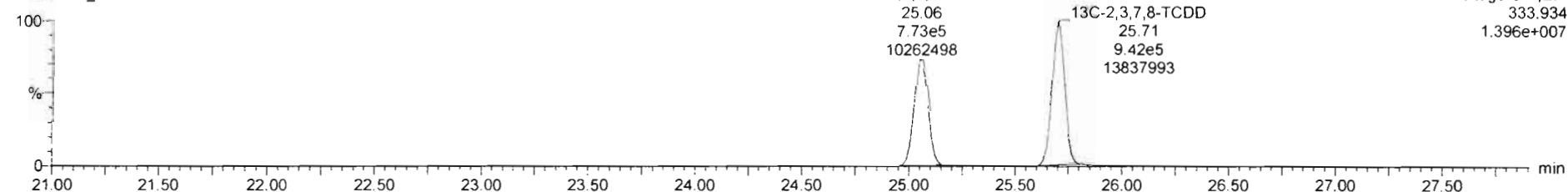


13C-1,2,3,4-TCDD

200209R1_13



200209R1_13

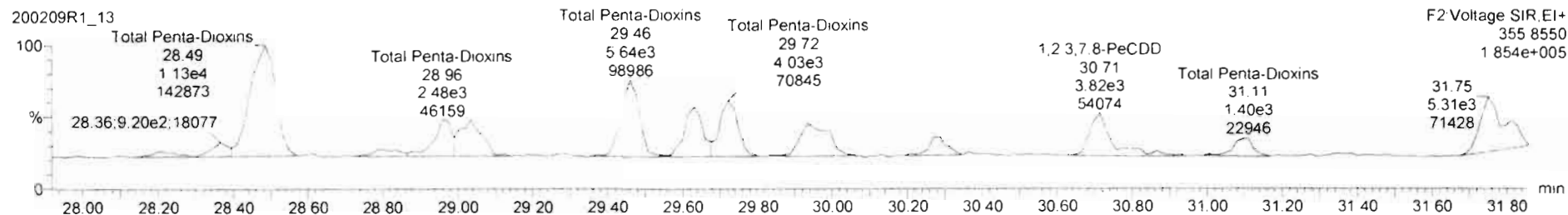
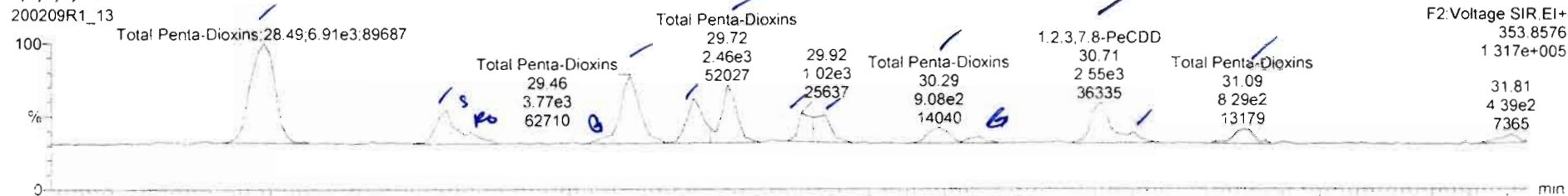


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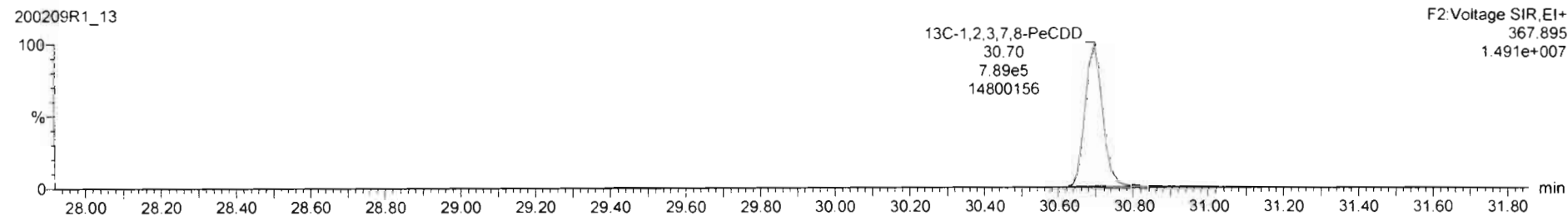
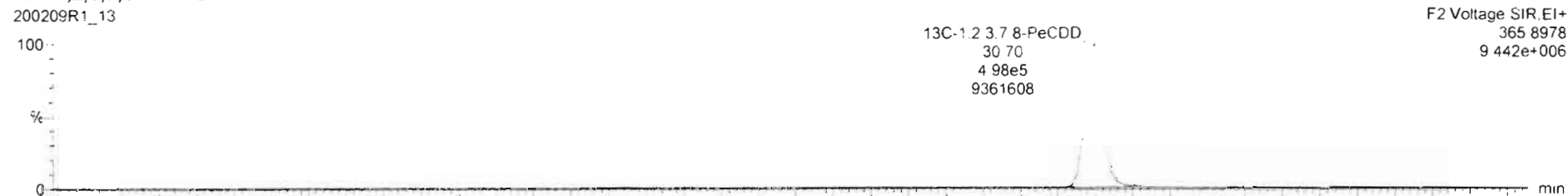
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1,2,3,7,8-PeCDD

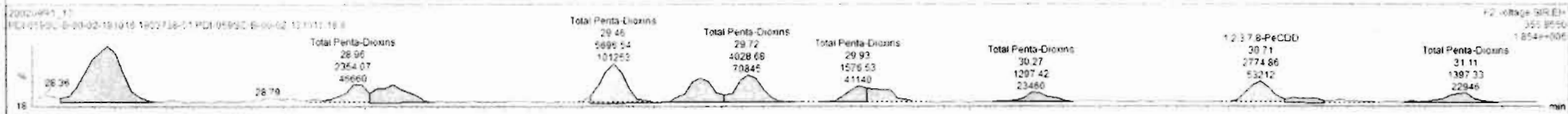
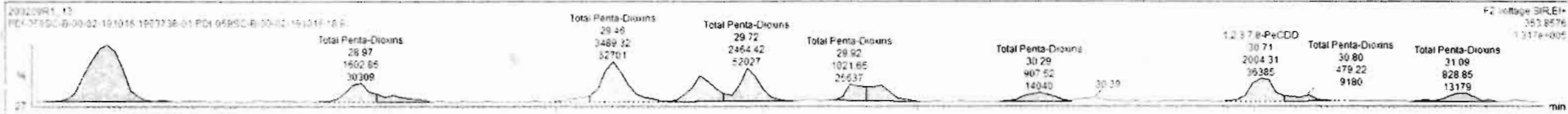


13C-1,2,3,7,8-PeCDD



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9661	10.002			9.44		0.0957	9.92
40 Total Penta-Dioxins				0.9723	10.002			8.62		0.104	9.84

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.49	6.911e3	1.130e4	0.61	NO	2.9082	2.9082
2 Total Penta-Dioxins	28.97	1.603e3	2.354e3	0.66	NO	0.63263	0.63263
3 Total Penta-Dioxins	29.00	7.138e2	3.161e3	0.22	-ES	0.29498	0.00000
4 Total Penta-Dioxins	29.46	3.489e3	5.697e3	0.61	NO	1.4672	1.4672
5 Total Penta-Dioxins	29.53	2.046e3	3.629e3	0.56	NO	0.90652	0.90652
6 Total Penta-Dioxins	29.72	2.484e3	4.029e3	0.61	NO	1.0371	1.0371
7 Total Penta-Dioxins	29.52	1.022e3	1.577e3	0.65	NO	0.41500	0.00608
8 Total Penta-Dioxins	29.98	1.248e3	1.928e3	0.65	NO	0.50739	0.00000
9 Total Penta-Dioxins	30.29	9.075e2	1.297e3	0.70	NO	0.35219	0.35219
10 1,2,3,7,8-PeCDD	30.71	2.004e3	2.775e3	0.72	NO	0.76326	0.76326
11 Total Penta-Dioxins	30.60	4.762e2	7.619e2	0.63	NO	0.19624	0.19624
12 Total Penta-Dioxins	31.09	8.266e2	1.397e3	0.69	NO	0.76568	0.35558



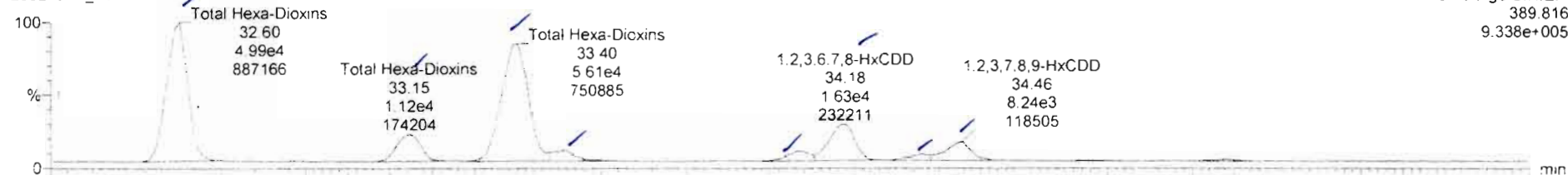
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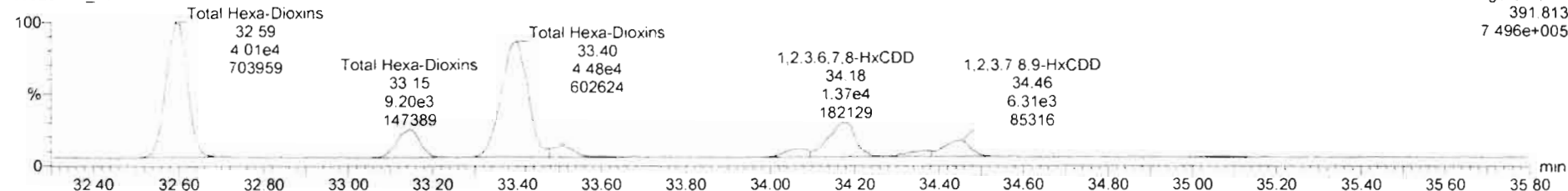
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1,2,3,4,7,8-HxCDD

200209R1_13

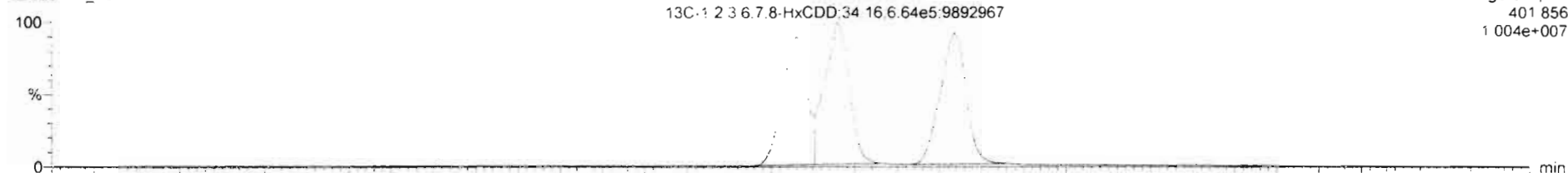


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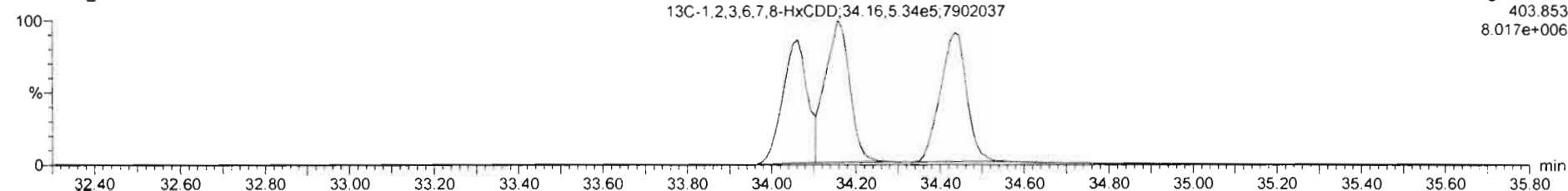


13C-1,2,3,4,7,8-HxCDD

200209R1_13



200209R1_13



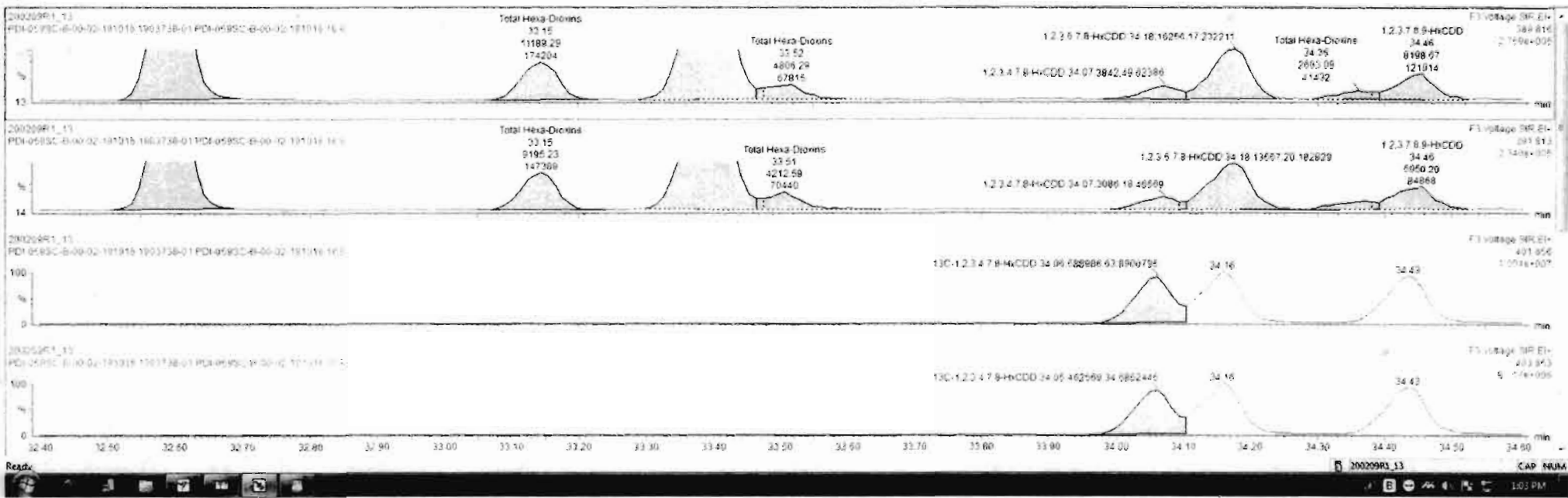
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200209R1_13 - 1903738-01 PDI-059SC-B-00-02-191016 18 8 - PDI-059SC-B-00-02-191016

M	Name	Resp	RA	nly	RFI	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	10.002			52.0		0.136	52.0
42	Total Hepta-Dioxins				0.9231	10.002			296		0.569	296

M	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Hexa-Dioxins	32.80	4.952e4	4.096e4	1.25	NO	17.162	17.163
2	Total Hexa-Dioxins	33.15	1.119e4	9.195e3	1.22	NO	3.8864	3.8864
3	Total Hexa-Dioxins	33.40	5.547e4	4.426e4	1.25	NO	19.029	19.029
4	Total Hexa-Dioxins	33.52	4.206e3	4.213e3	1.14	NO	1.7204	1.7204
5	1,2,3,4,7,8-HxCDD	34.07	3.842e3	2.866e3	1.25	NO	1.2305	1.2305
6	1,2,3,6,7,8-HxCDD	34.16	1.626e4	1.356e4	1.20	NO	5.4824	5.4824
7	Total Hepta-Dioxins	34.36	2.892e3	2.282e3	1.14	NO	0.93378	0.93378
8	1,2,3,7,8,9-HxCDD	34.46	8.198e3	5.950e3	1.36	NO	2.6458	2.6458



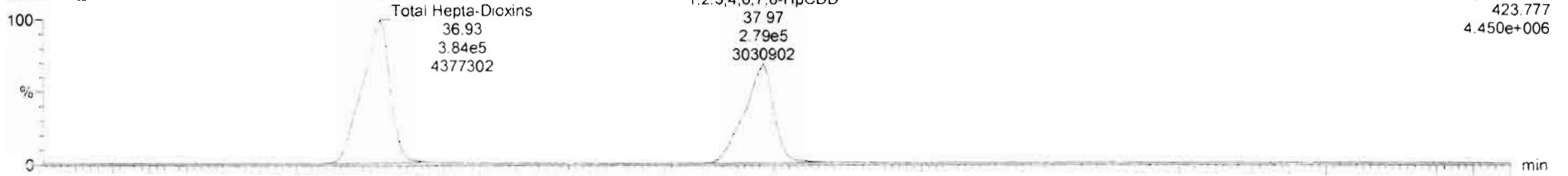
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Name: 200209R1_13, Date: 09-Feb-2020, Time: 21:33:39, ID: 1903738-01 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

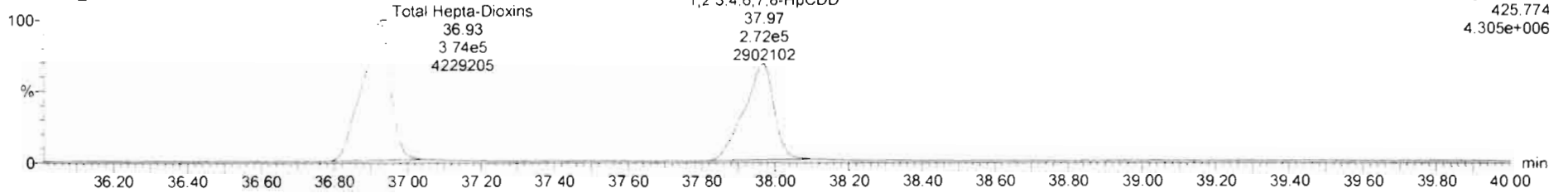
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200209R1_13



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4.450e+006

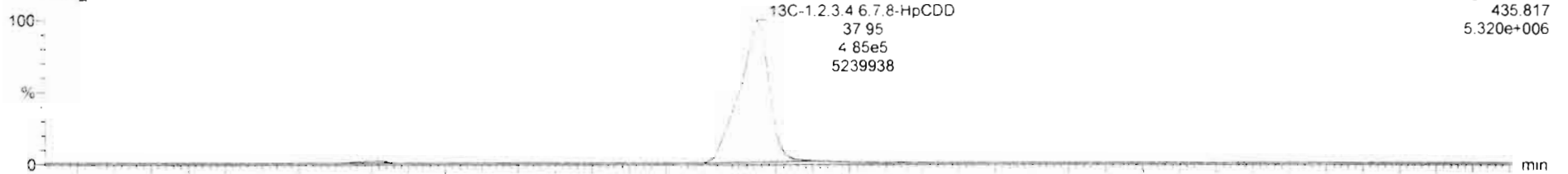
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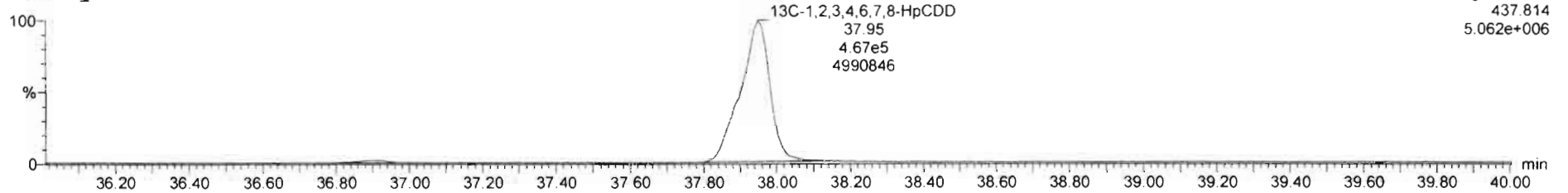
13C-1,2,3,4,6,7,8-HpCDD

200209R1_13



F4.Voltage SIR.EI+
435.817
5.320e+006

200209R1_13



F4.Voltage SIR.EI+
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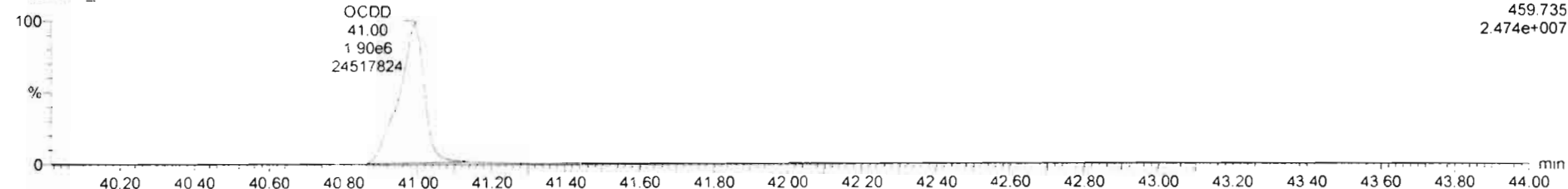
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OCDD

200209R1_13

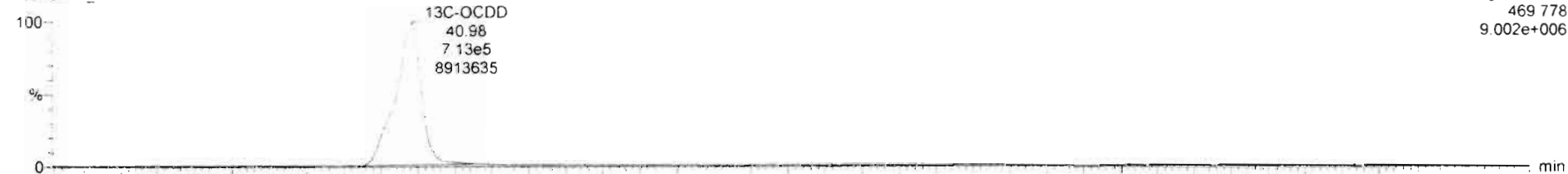


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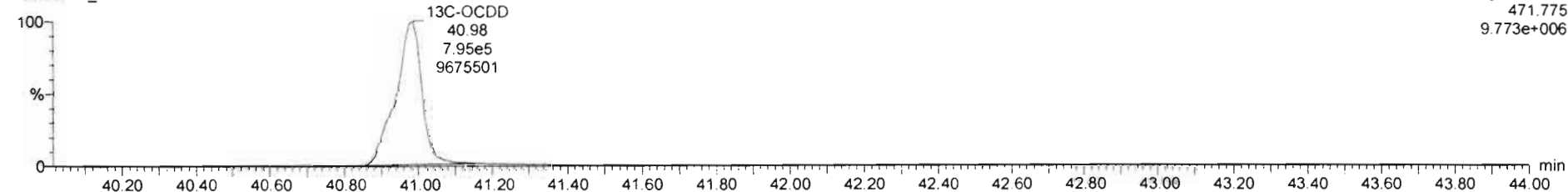


13C-OCDD

200209R1_13



200209R1_13

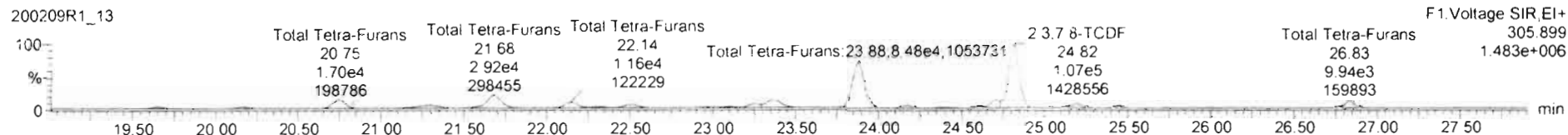
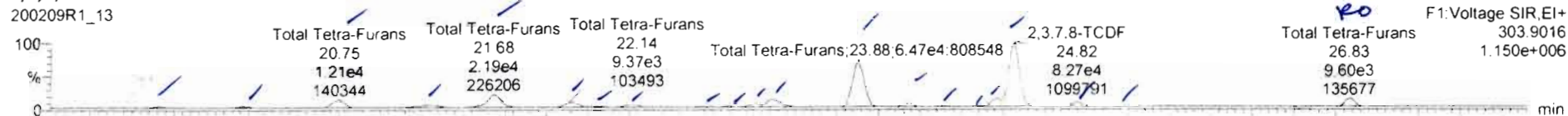


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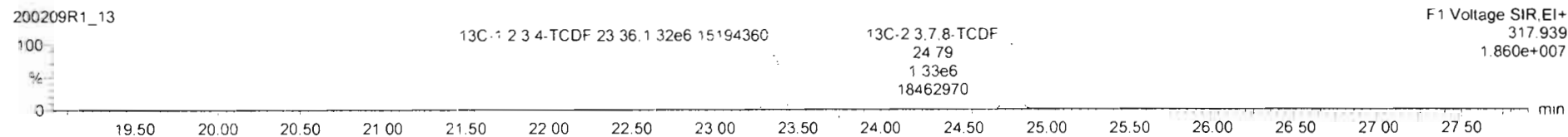
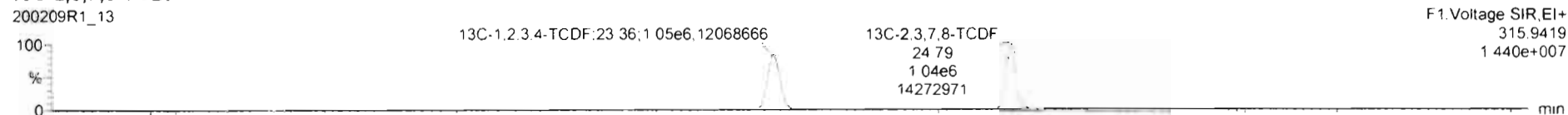
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Name: 200209R1_13, Date: 09-Feb-2020, Time: 21:33:39, ID: 1903738-01 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

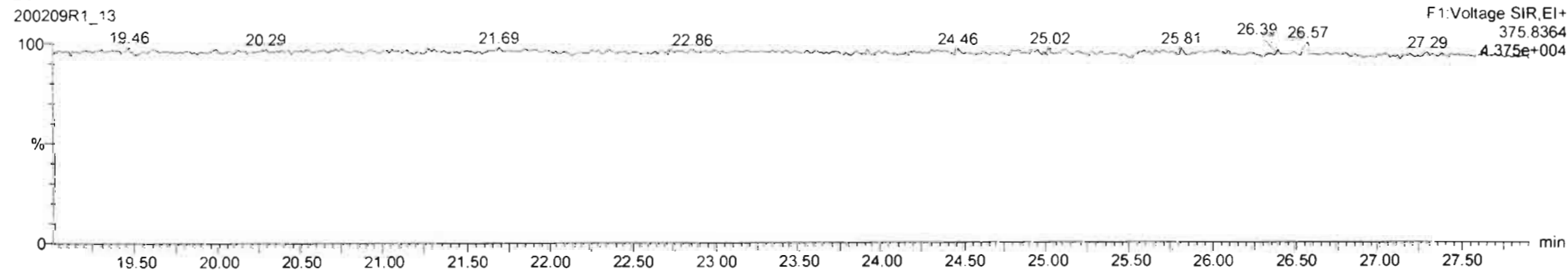
2,3,7,8-TCDF

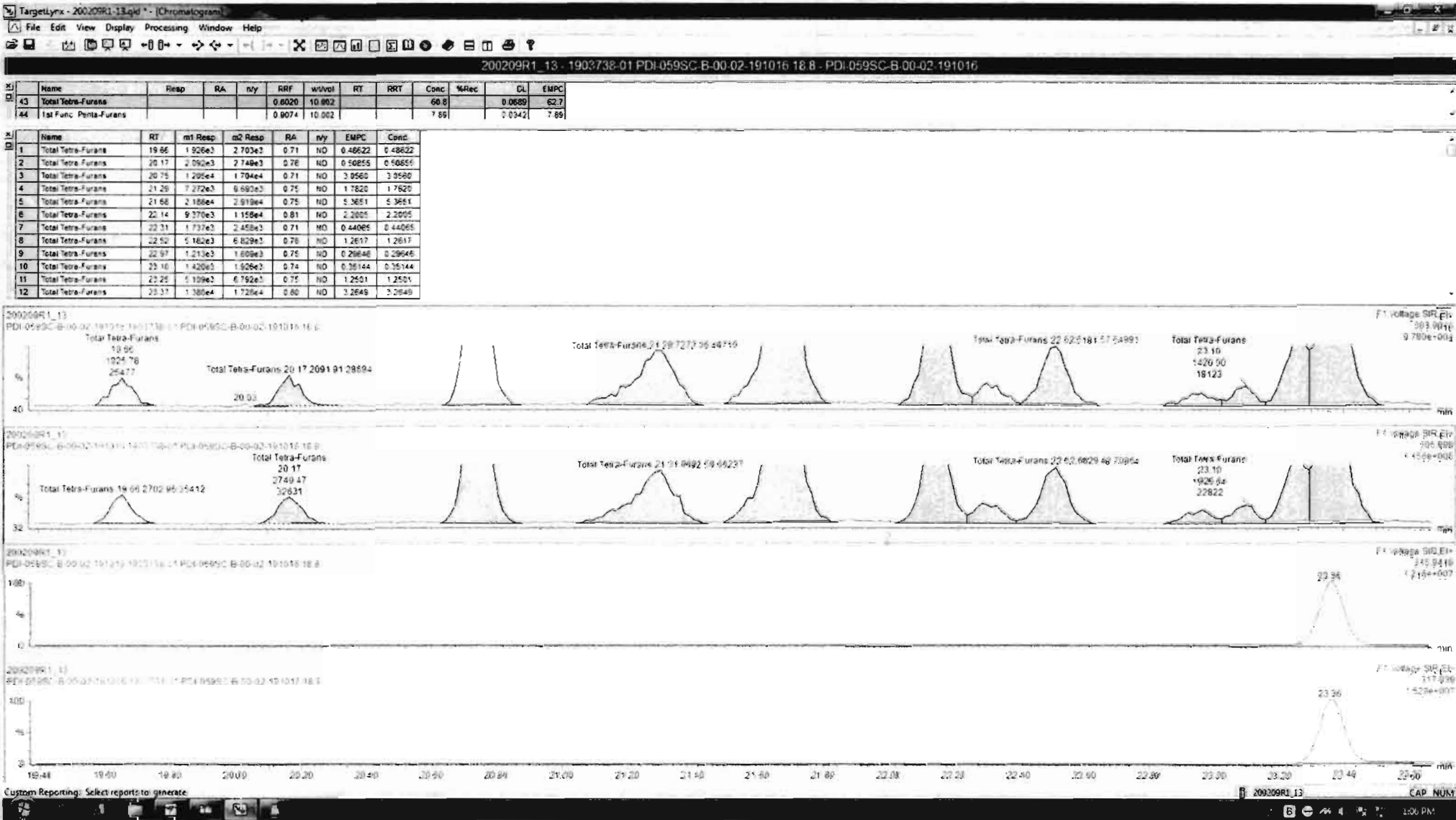


13C-2,3,7,8-TCDF



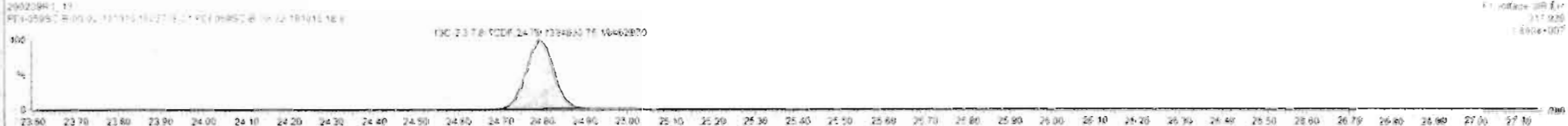
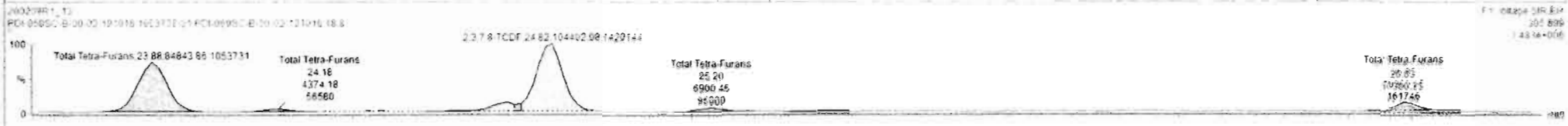
DPE1





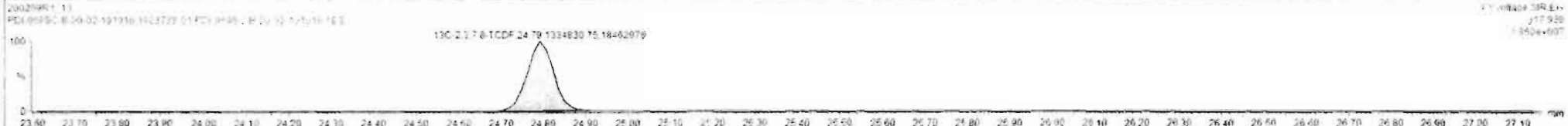
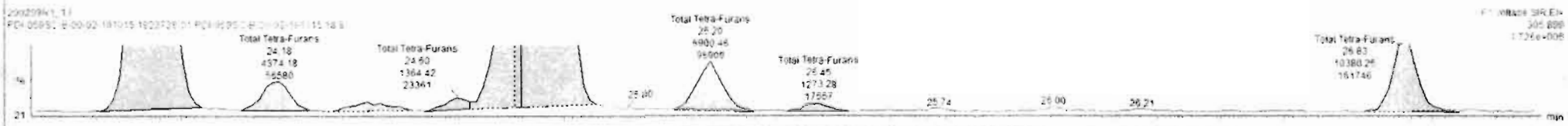
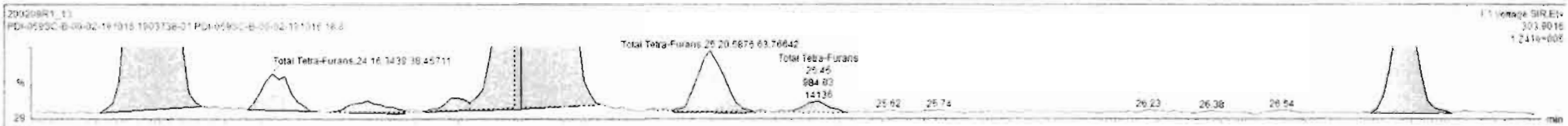
Name	Resp	RA	nly	RRF	wthol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6020	10.002			60.9		0.0669	62.6
44 1st Func. Penta-Furans				0.9074	10.002			7.66		2.0342	7.66

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
11 Total Tetra-Furans	23.25	5.199e3	6.792e3	0.75	NO	1.2501	1.2501
12 Total Tetra-Furans	23.37	1.320e4	1.726e4	0.60	NO	3.2649	3.2649
13 Total Tetra-Furans	23.86	8.468e4	8.484e4	0.76	NO	15.707	15.707
14 Total Tetra-Furans	24.16	3.439e2	4.374e3	0.79	NO	0.82076	0.82076
15 Total Tetra-Furans	24.39	1.401e3	1.806e3	0.78	NO	0.33714	0.33714
16 Total Tetra-Furans	24.58	9.825e2	1.364e3	0.72	NO	0.24652	0.24652
17 Total Tetra-Furans	24.79	9.962e3	1.322e4	0.75	NO	2.4247	2.4243
18 2,3,7,8-TCDF	24.82	8.118e4	1.044e5	0.78	NO	15.494	19.494
19 Total Tetra-Furans	25.20	5.077e3	6.900e3	0.85	NO	1.3421	1.3421
20 Total Tetra-Furans	25.45	9.848e2	1.273e3	0.77	NO	0.23720	0.23720
21 Total Tetra-Furans	26.83	9.802e3	1.038e4	0.93	YES	1.9300	0.00000



Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6020	10.002			60.8		0.0069	62.8
44 1st Func. Penta-Furans				0.9074	10.062			7.89		0.0342	7.55

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
11 Total Tetra-Furans	23.25	5.109e3	6.792e3	0.75	NO	1.2501	1.2501
12 Total Tetra-Furans	23.37	1.380e4	1.728e4	0.80	NO	3.2649	3.2649
13 Total Tetra-Furans	23.86	6.468e4	8.484e4	0.76	NO	15.707	15.707
14 Total Tetra-Furans	24.16	3.439e3	4.374e3	0.79	NO	0.82076	0.82076
15 Total Tetra-Furans	24.39	1.401e3	1.805e3	0.78	NO	0.33714	0.33714
16 Total Tetra-Furans	24.56	9.825e2	1.364e3	0.72	NO	0.24652	0.24652
17 Total Tetra-Furans	24.72	8.862e3	1.122e4	0.75	NO	2.4343	2.4243
18 2,3,7,8-TCDF	24.82	8.118e4	1.044e5	0.78	NO	19.454	19.494
19 Total Tetra-Furans	25.20	5.377e3	6.900e3	0.85	NO	1.3421	1.3421
20 Total Tetra-Furans	25.45	9.846e2	1.273e3	0.77	NO	0.23720	0.23720
21 Total Tetra-Furans	26.83	5.602e3	1.038e4	0.92	YES	1.9200	0.00000



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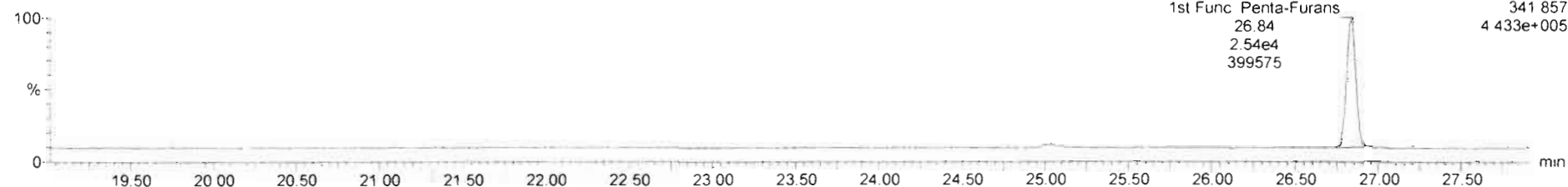
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1st Func. Penta-Furans

200209R1_13

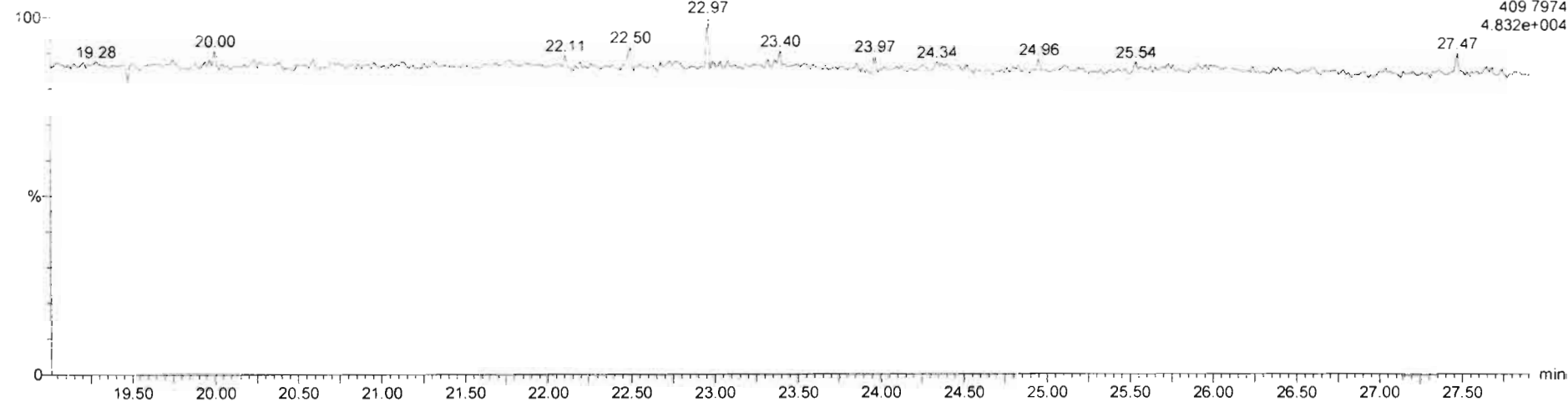


200209R1_13



DPE6

200209R1_13



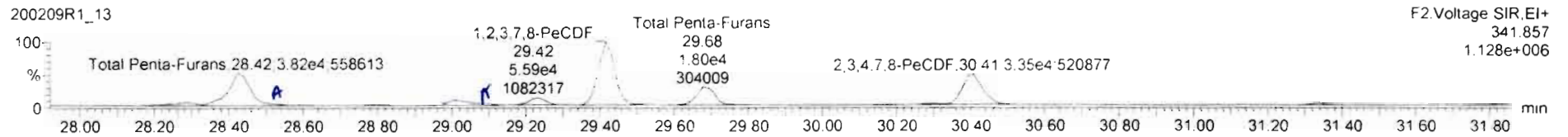
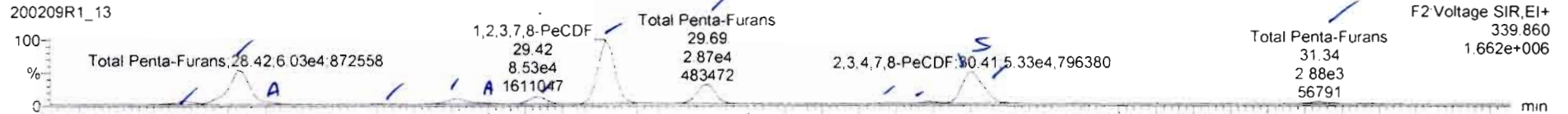
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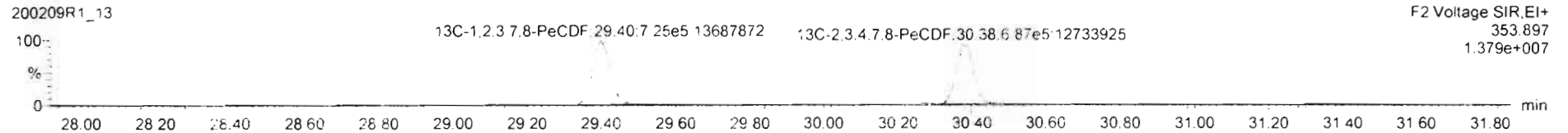
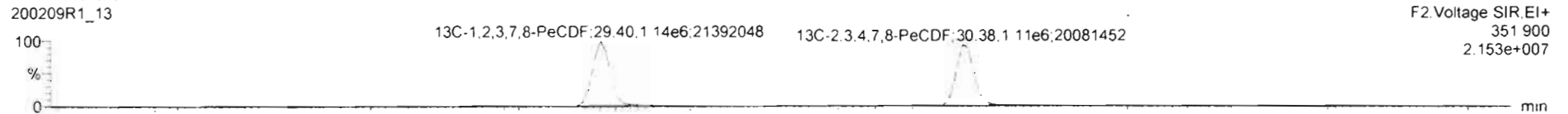
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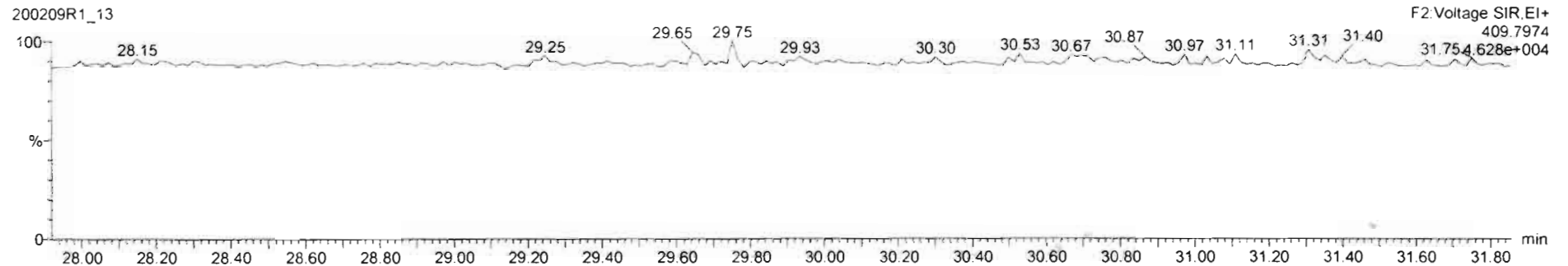
1,2,3,7,8-PeCDF



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



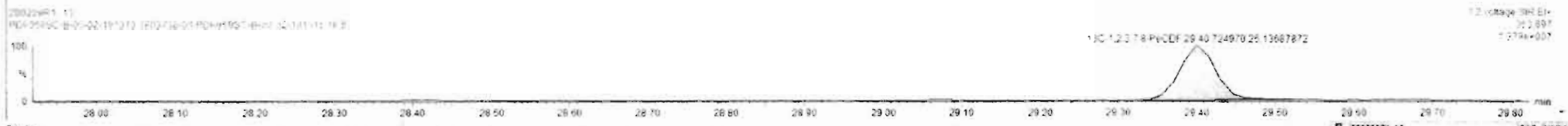
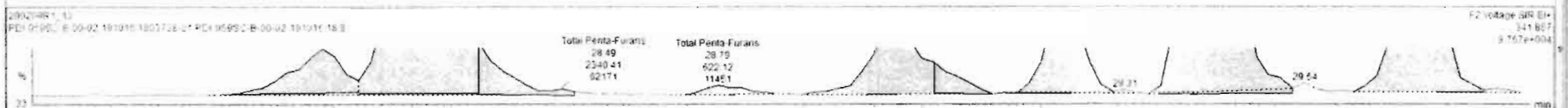
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200209R1_13 - 1903738-01 PDI-059SC-B-00-02-191016 18.8 PDI-059SC-B-00-02-191016

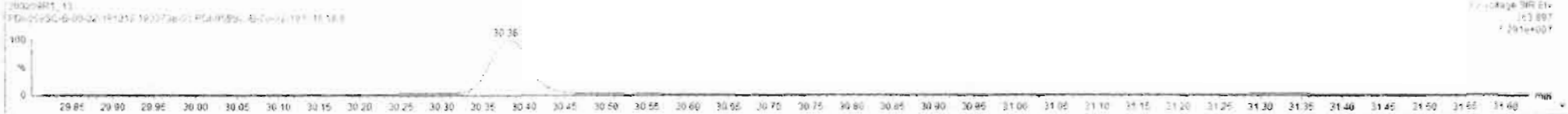
Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.002			48.2		0.100	50.9
46 Total Hexa-Furans				0.8982	10.002			78.2		0.111	78.1

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc
1 Total Penta-Furans	28.29	5.369e3	3.778e2	1.42	NO	1.1005	1.1005
2 Total Penta-Furans	28.42	5.856e4	2.571e4	1.58	NO	11.101	11.101
3 Total Penta-Furans	28.49	3.542e3	2.340e3	1.51	NO	0.70788	0.70788
4 Total Penta-Furans	28.81	8.911e2	6.221e2	1.43	NO	0.18205	0.18205
5 Total Penta-Furans	29.02	8.763e3	6.111e3	1.42	NO	1.7894	0.00000
6 Total Penta-Furans	29.06	1.722e3	1.258e3	1.37	NO	0.35647	0.35647
7 Total Penta-Furans	29.23	9.932e3	6.155e3	1.61	NO	1.9253	1.9253
8 1,2,3,7,8-PeCDF	29.40	5.681e4	5.644e4	1.54	NO	16.922	16.922
9 Total Penta-Furans	29.60	2.674e4	1.773e4	1.62	NO	5.5805	5.5805
10 Total Penta-Furans	30.21	4.008e2	1.705e2	1.06	YES	0.079328	0.00000
11 Total Penta-Furans	30.29	2.049e3	1.092e3	1.67	YES	0.33523	0.00000
12 2,3,4,7,8-PeCDF	30.41	5.330e4	2.363e4	1.59	NO	10.148	10.148
13 Total Penta-Furans	31.34	2.878e3	1.801e3	1.80	YES	0.49127	0.00000
14 Total Penta-Furans	31.45	7.234e2	4.389e2	1.66	NO	0.13856	0.13856



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.002			49.3		0.100	51.1
46 Total Hexa-Furans				0.8982	10.002			78.2		0.111	78.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.29	5.369e3	3.778e3	1.42	NO	1.1005	1.1005
2 Total Penta-Furans	28.42	5.858e4	3.571e4	1.58	NO	11.101	11.101
3 Total Penta-Furans	28.49	3.542e3	2.340e3	1.51	NO	0.70768	0.70768
4 Total Penta-Furans	28.61	8.911e2	6.221e2	1.43	NO	0.18205	0.18205
5 Total Penta-Furans	29.02	8.763e3	6.111e3	1.43	NO	1.7894	0.00000
6 Total Penta-Furans	29.06	1.722e3	1.258e3	1.37	NO	0.35647	0.35547
7 Total Penta-Furans	29.23	6.932e3	8.155e3	1.61	NO	1.9263	1.9353
8 1,2,3,7,8-PeCDF	29.42	8.681e4	5.644e4	1.54	NO	16.922	16.522
9 Total Penta-Furans	29.69	2.874e4	1.773e4	1.62	NO	5.5905	5.5905
10 Total Penta-Furans	30.21	7.242e2	4.970e2	1.46	NO	0.14692	0.14692
11 Total Penta-Furans	30.25	2.378e3	1.476e3	1.61	NO	0.46364	0.46364
12 2,3,4,7,8-PeCDF	30.41	4.589e4	2.971e4	1.64	NO	8.8126	8.8128
13 Total Penta-Furans	30.44	7.814e3	4.737e3	1.65	NO	1.5100	1.5100
14 Total Penta-Furans	31.34	2.465e3	1.523e3	1.61	NO	0.48092	0.48092



#	Name	Resp	RA	nly	RF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.002			49.3		0.100	51.1
46	Total Hexa-Furans				0.8962	10.002			78.2		0.111	78.7

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Penta-Furans	28.29	5.369e3	3.778e3	1.42	NO	1.1005	1.1005
2	Total Penta-Furans	28.42	5.856e4	2.571e4	1.58	NO	11.101	11.101
3	Total Penta-Furans	28.45	3.542e3	2.340e3	1.51	NO	0.70788	0.70788
4	Total Penta-Furans	28.81	8.911e2	6.221e2	1.43	NO	0.18205	0.18205
5	Total Penta-Furans	29.02	8.753e3	6.111e3	1.43	NO	1.7894	0.00000
6	Total Penta-Furans	29.08	1.722e3	1.258e3	1.37	NO	0.35647	0.35847
7	Total Penta-Furans	29.23	9.932e3	6.155e3	1.61	NO	1.9387	1.9383
8	1,2,3,7,8-PeCDF	29.42	8.891e4	5.646e4	1.54	NO	16.922	16.922
9	Total Penta-Furans	29.69	2.874e4	1.773e4	1.62	NO	5.5905	5.5905
10	Total Penta-Furans	30.21	7.242e2	4.670e2	1.48	NO	0.14852	0.14852
11	Total Penta-Furans	30.26	2.376e3	1.476e3	1.61	NO	0.48364	0.48364
12	2,3,4,7,8-PeCDF	30.41	4.568e4	2.971e4	1.54	NO	8.8128	8.8128
13	Total Penta-Furans	30.44	7.814e3	4.737e3	1.65	NO	1.5100	1.5100
14	Total Penta-Furans	31.34	3.466e3	1.933e3	1.61	NO	0.48092	0.48092



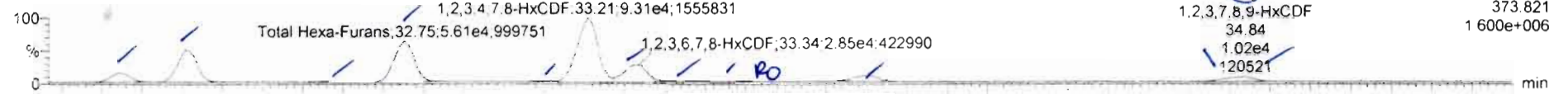
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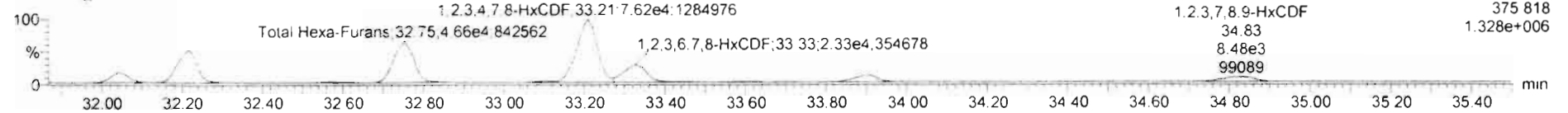
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200209R1_13

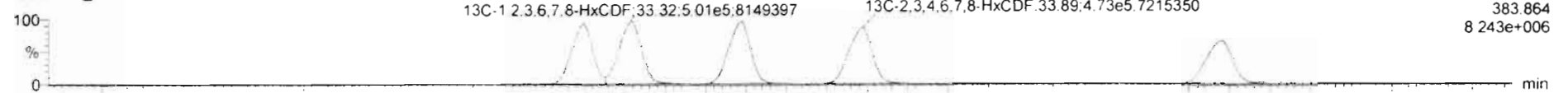


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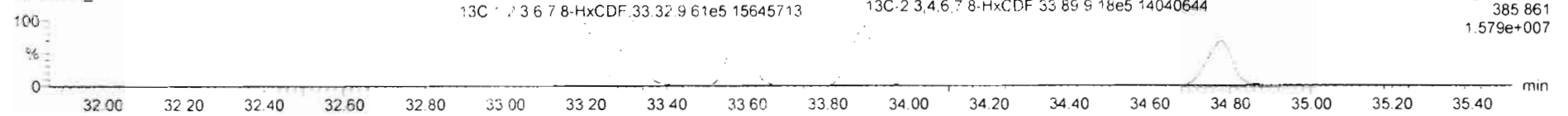


13C-1,2,3,4,7,8-HxCDF

200209R1_13

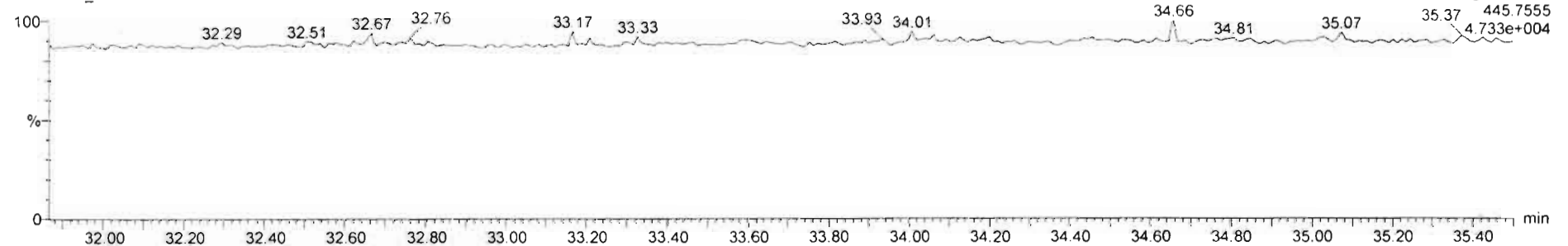


200209R1_13



DPE3

200209R1_13



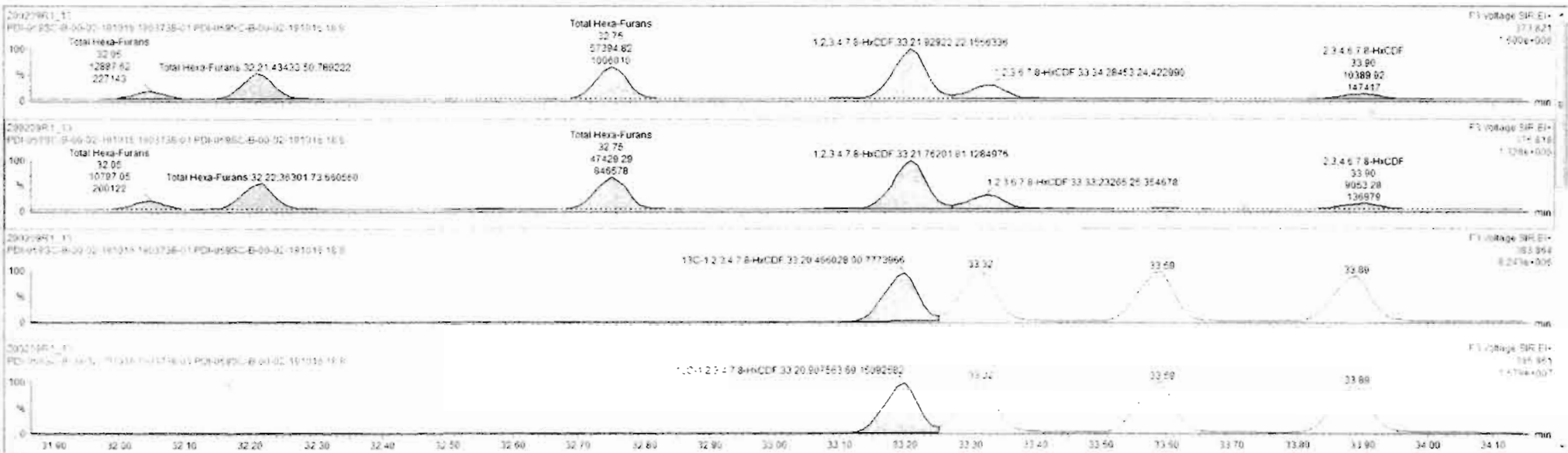
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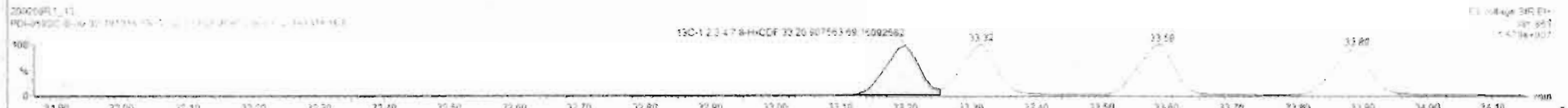
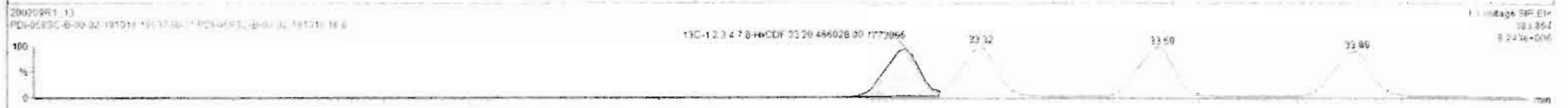
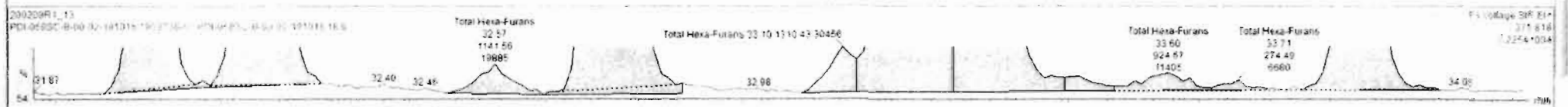
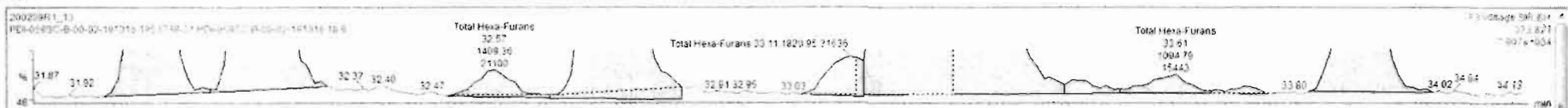
MI	Name	Resp	RA	nly	RFI	wt/trl	RT	RRT	Conc	%Rec	GL	EHPC
46	Total Hexa-Furans				0.8962	10.002			75.1		0.111	79.2
47	Total Hepta-Furans				0.8511	10.002			102		0.264	102

MI	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Hexa-Furans	32.05	1.289e4	1.080e4	1.19	NO	3.8690	2.9890
2	Total Hexa-Furans	32.21	4.343e4	3.620e4	1.20	NO	13.025	13.025
3	Total Hexa-Furans	32.57	1.499e3	1.142e3	1.23	NO	0.41670	0.41670
4	Total Hexa-Furans	32.75	5.739e4	4.743e4	1.21	NO	17.123	17.123
5	Total Hexa-Furans	33.11	1.821e3	1.210e3	1.39	NO	0.51152	0.51152
6	1,2,3,4,7,8-HxCDF	33.21	9.292e4	7.620e4	1.22	NO	28.553	28.553
7	1,2,3,6,7,8-HxCDF	33.34	2.845e4	2.327e4	1.22	NO	8.4060	8.4060
8	Total Hexa-Furans	33.48	5.902e2	4.864e2	1.23	NO	0.17684	0.17684
9	Total Hexa-Furans	33.61	1.095e3	9.247e2	1.16	NO	0.32988	0.32988
10	Total Hexa-Furans	33.72	2.680e2	2.745e2	1.05	ES	0.084887	0.080000
11	2,3,4,6,7,8-HxCDF	33.50	1.039e4	9.053e3	1.15	NO	3.1124	2.1124
12	1,2,3,7,8,9-HxCDF	34.54	1.018e4	8.484e3	1.20	NO	7.5515	3.5515



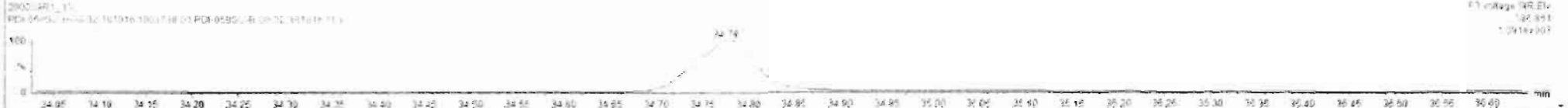
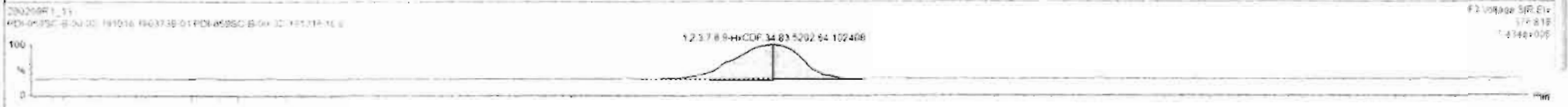
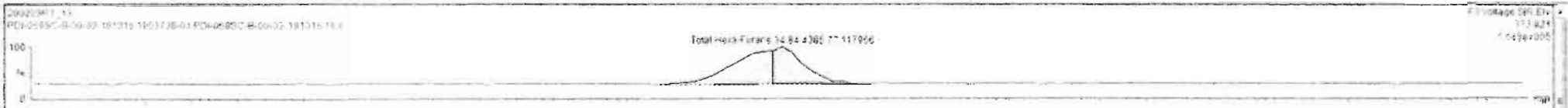
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8962	10.002			79.1		0.111	79.2
47 Total Hepta-Furans				0.6511	10.002			102		0.284	102

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.05	1.289e4	1.080e4	1.19	NO	3.8690	3.8690
2 Total Hexa-Furans	32.21	4.343e4	3.630e4	1.20	NO	13.025	13.025
3 Total Hexa-Furans	32.57	1.499e3	1.142e3	1.23	NO	0.41670	0.41670
4 Total Hexa-Furans	32.75	5.739e4	4.743e4	1.21	NO	17.123	17.123
5 Total Hexa-Furans	33.11	1.821e3	1.310e3	1.38	NO	0.51152	0.51152
6 1,2,3,4,7,8-HxCDF	33.21	6.292e4	7.620e4	1.22	NO	28.553	28.553
7 1,2,3,6,7,8-HxCDF	33.34	2.845e4	2.327e4	1.22	NO	8.4060	8.4060
8 Total Hexa-Furans	33.46	5.962e2	4.864e2	1.23	NO	0.17684	0.17684
9 Total Hexa-Furans	33.61	1.095e3	9.247e2	1.16	NO	0.32988	0.32988
10 Total Hexa-Furans	33.72	2.580e2	2.745e2	1.06	YES	0.084887	0.080000
11 2,3,4,6,7,8-HxCDF	33.94	1.239e4	9.263e3	1.15	NO	3.1124	3.1124
12 1,2,3,7,8,9-HxCDF	34.84	1.018e4	8.484e3	1.20	NO	3.5515	3.5515



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.8962	10.002			78.9		9.111	76.0
47 Total Hepta-Furans				0.8511	12.002			103		0.284	103

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.05	1.289e4	1.080e4	1.19	NO	1.9650	3.9590
2 Total Hexa-Furans	32.21	4.343e4	3.870e4	1.20	NO	12.025	13.025
3 Total Hexa-Furans	32.57	1.409e3	1.142e3	1.23	NO	0.41670	0.41670
4 Total Hexa-Furans	32.75	5.739e4	4.743e4	1.21	NO	17.123	17.123
5 Total Hexa-Furans	33.11	1.821e3	1.310e3	1.39	NO	0.51152	0.51152
6 1,2,3,4,7,8-HxCDF	33.21	6.292e4	7.620e4	1.22	NO	28.553	28.553
7 1,2,3,6,7,8-HxCDF	33.34	2.845e4	2.327e4	1.22	NO	8.4000	8.4000
8 Total Hexa-Furans	33.46	5.962e2	4.864e2	1.22	NO	0.17884	0.17884
9 Total Hexa-Furans	33.61	1.095e3	9.247e2	1.15	NO	0.32986	0.32986
10 Total Hexa-Furans	33.72	2.680e2	2.745e2	1.05	ES	0.084987	0.00000
11 2,3,4,6,7,8-HxCDF	33.90	1.039e4	9.052e3	1.15	NO	3.1124	3.1124
12 1,2,3,7,8,9-HxCDF	34.83	5.725e3	5.203e3	1.10	NO	2.0197	2.0197
13 Total Hexa-Furans	34.84	4.396e3	3.854e3	1.20	NO	1.3132	1.3132



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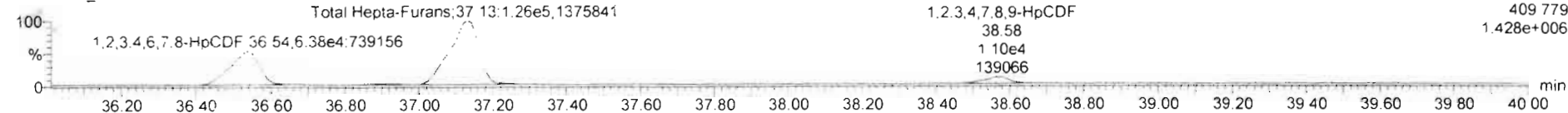
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200209R1_13

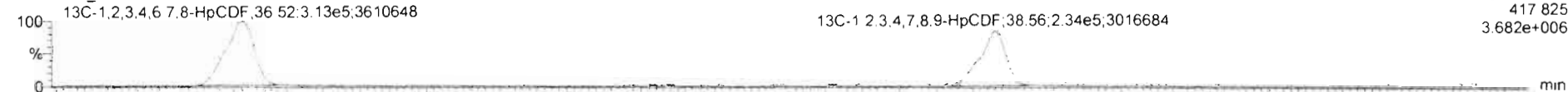


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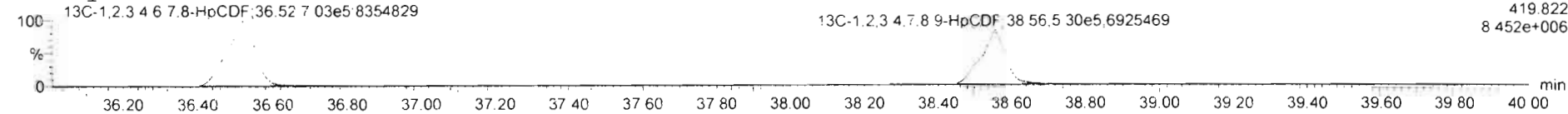


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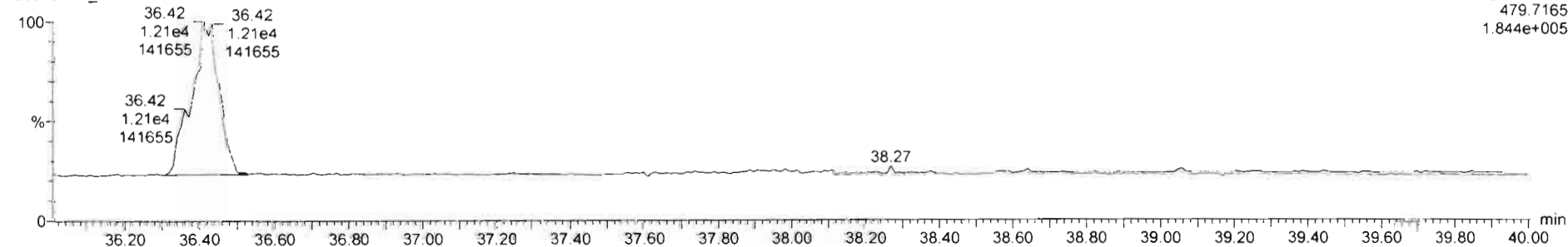


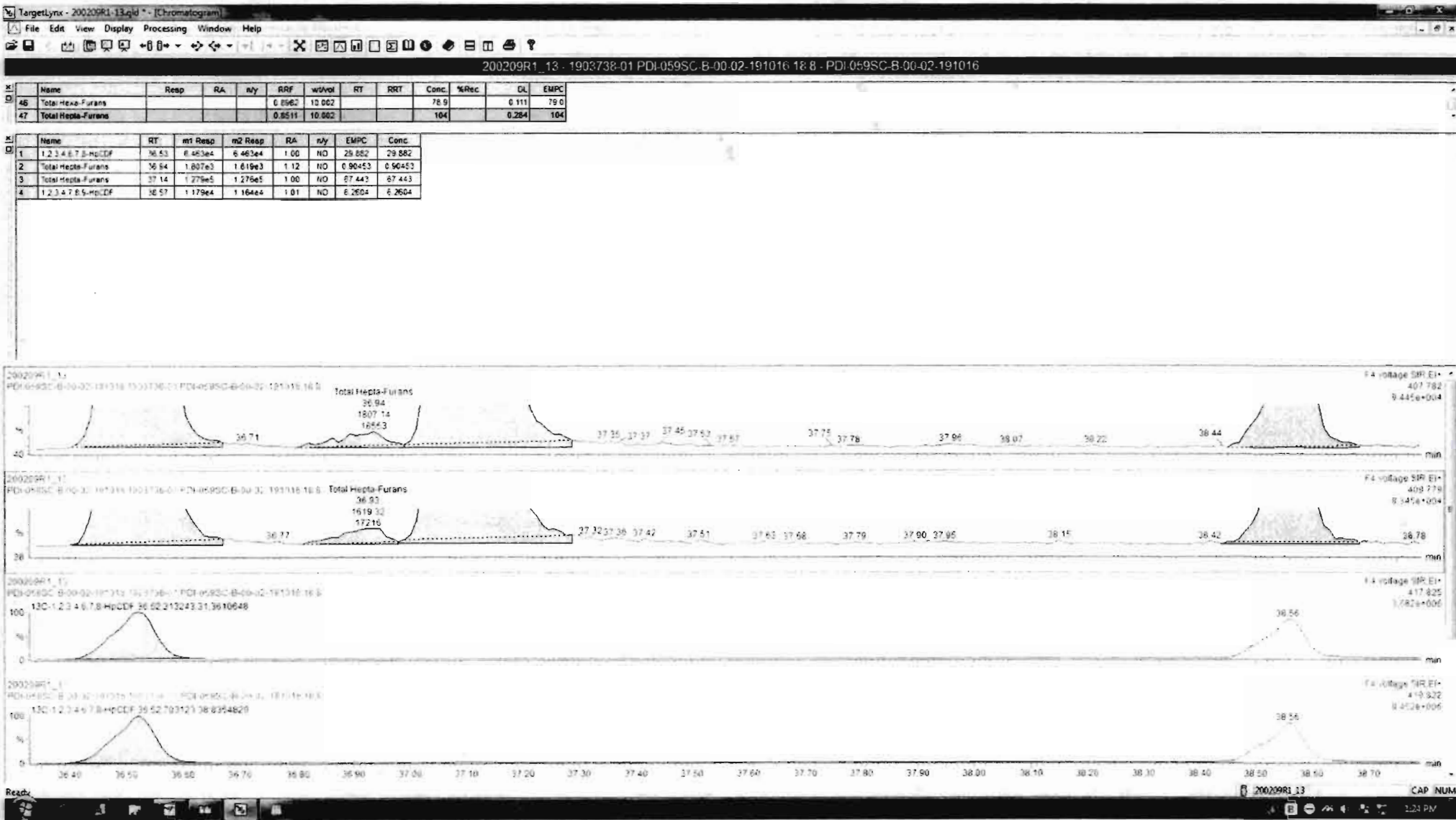
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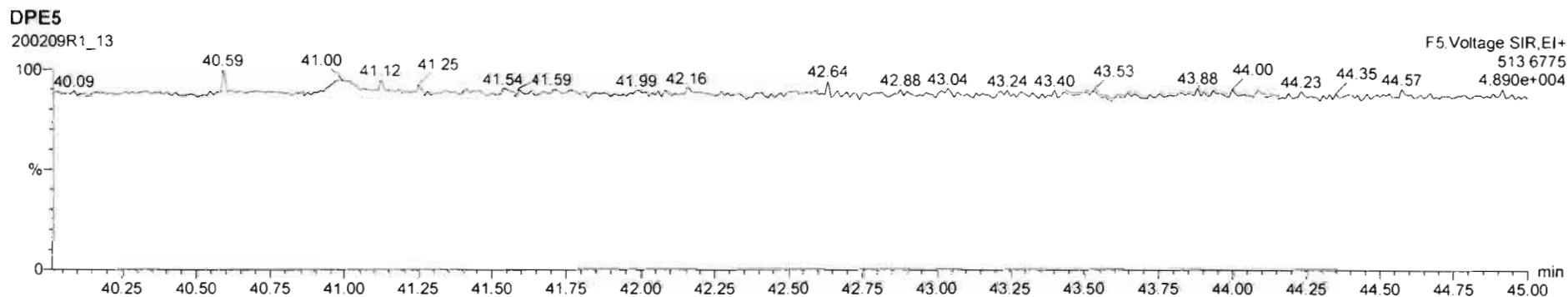
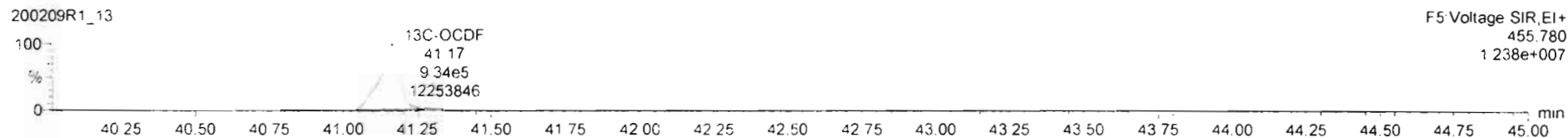
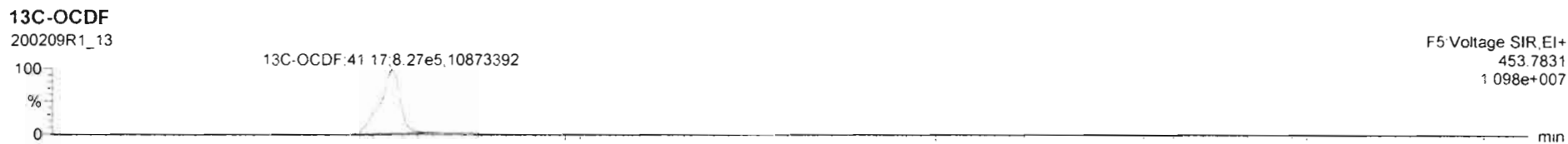
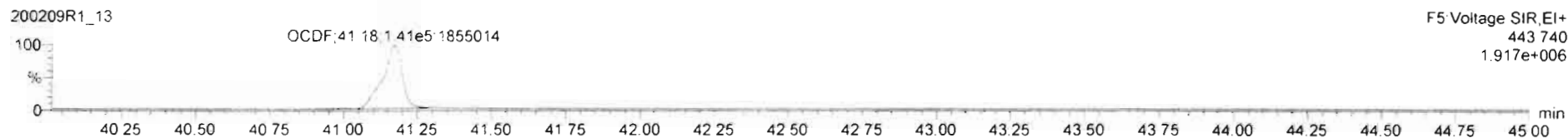




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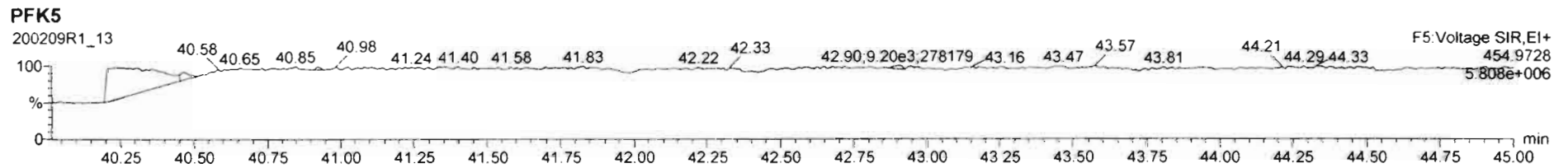
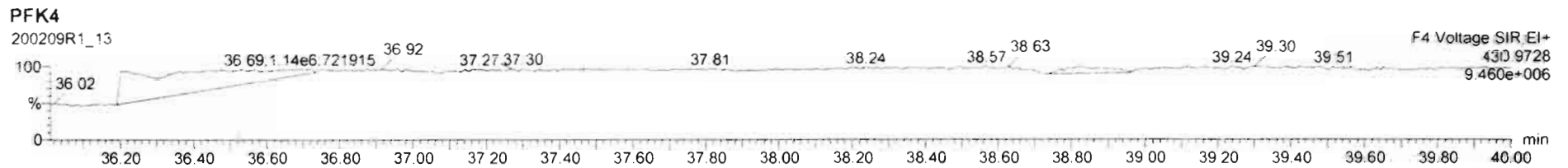
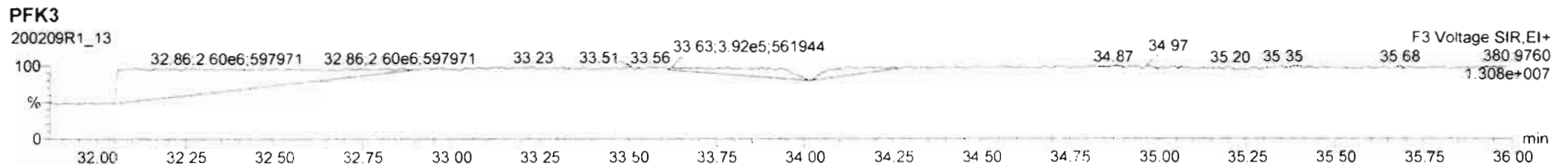
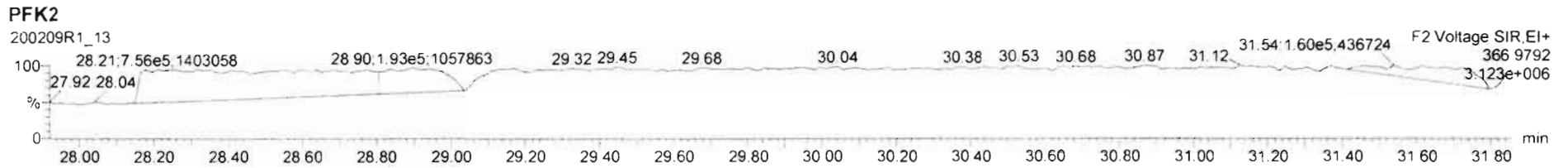
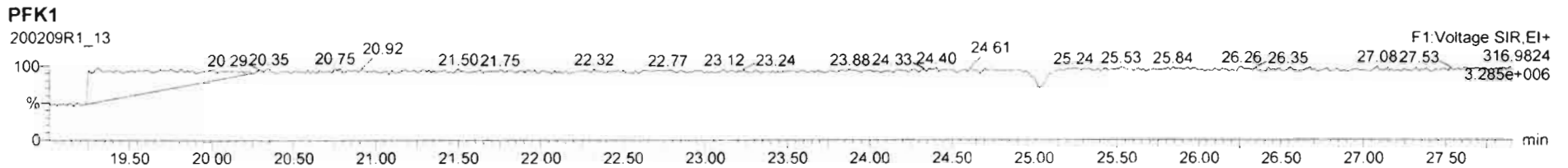
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Name: 200211R2_9, Date: 11-Feb-2020, Time: 22:14:54, ID: 1903738-02 PDI-059SC-B-02-04-191016 12.59, Description: PDI-059SC-B-02-04-191016

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.988	10.034	25.79			1.00	NO			0.0876	
2	2 1,2,3,7,8-PeCDD				0.972	10.034	30.83			1.00	NO			0.131	
3	3 1,2,3,4,7,8-HxCDD	4892.047	1.272	NO	1.07	10.034	34.20	34.30	1.00	1.00	NO	1.063		0.0888	1.063
4	4 1,2,3,6,7,8-HxCDD				0.921	10.034	34.28			1.00	NO			0.0935	
5	5 1,2,3,7,8,9-HxCDD	1799.467	1.253	NO	0.918	10.034	34.60	34.56	1.00	1.00	NO	0.4383		0.105	0.4383
6	6 1,2,3,4,6,7,8-HpCDD	144936.078	1.018	NO	0.923	10.034	38.08	38.09	1.00	1.00	NO	46.41		0.416	46.41
7	7 OCDD	880864.906	0.890	NO	0.975	10.034	41.10	41.11	1.00	1.00	NO	456.7		0.446	456.7
8	8 2,3,7,8-TCDF	22109.792	0.743	NO	0.802	10.034	24.88	24.87	1.00	1.00	NO	2.205 (1.79)		0.0650	2.205
9	9 1,2,3,7,8-PeCDF	20485.525	1.616	NO	0.907	10.034	29.54	29.52	1.00	1.00	NO	2.303		0.0748	2.303
10	10 2,3,4,7,8-PeCDF	3354.237	1.655	NO	0.952	10.034	30.51	30.51	1.00	1.00	NO	0.4067		0.0783	0.4067
11	11 1,2,3,4,7,8-HxCDF	21055.656	1.204	NO	0.862	10.034	33.33	33.34	1.00	1.00	NO	4.149		0.0627	4.149
12	12 1,2,3,6,7,8-HxCDF	5599.304	1.261	NO	0.841	10.034	33.45	33.46	1.00	1.00	NO	1.025		0.0604	1.025
13	13 2,3,4,6,7,8-HxCDF	2223.531	1.209	NO	0.898	10.034	34.05	34.03	1.00	1.00	NO	0.4872		0.0769	0.4872
14	14 1,2,3,7,8,9-HxCDF	642.346	1.059	NO	0.858	10.034	34.90	34.94	1.00	1.00	NO	0.1591		0.0945	0.1591
15	15 1,2,3,4,6,7,8-HpCDF	19787.085	0.973	NO	0.851	10.034	36.69	36.66	1.00	1.00	NO	6.633		0.166	6.633
16	16 1,2,3,4,7,8,9-HpCDF	2452.801	1.145	NO	0.980	10.034	38.68	38.68	1.00	1.00	NO	1.030		0.206	1.030
17	17 OCDF	42847.734	0.838	NO	0.806	10.034	41.28	41.30	1.00	1.00	NO	22.84		0.307	22.84
18	18 13C-2,3,7,8-TCDD	1780325.1...	0.806	NO	1.20	10.034	25.75	25.76	1.03	1.03	NO	176.6	88.6	0.186	
19	19 13C-1,2,3,7,8-PeCDD	1155193.0...	0.637	NO	0.967	10.034	30.51	30.82	1.22	1.23	NO	142.1	71.3	0.202	
20	20 13C-1,2,3,4,7,8-HxCDD	856479.344	1.273	NO	0.874	10.034	34.18	34.19	1.01	1.01	NO	125.1	62.8	0.302	
21	21 13C-1,2,3,6,7,8-HxCDD	1010811.6...	1.263	NO	1.05	10.034	34.28	34.28	1.02	1.02	NO	123.4	61.9	0.252	
22	22 13C-1,2,3,7,8,9-HxCDD	891287.751	1.239	NO	0.974	10.034	34.59	34.56	1.03	1.03	NO	116.8	58.6	0.271	
23	23 13C-1,2,3,4,6,7,8-HpCDD	674364.001	1.057	NO	0.747	10.034	38.16	38.07	1.13	1.13	NO	115.2	57.8	0.251	
24	24 13C-OCDD	788920.876	0.900	NO	0.707	10.034	41.06	41.10	1.22	1.22	NO	142.6	35.8	0.215	
25	25 13C-2,3,7,8-TCDF	2491768.8...	0.774	NO	1.07	10.034	24.93	24.85	0.99	0.99	NO	166.3	83.4	0.252	
26	26 13C-1,2,3,7,8-PeCDF	1954175.2...	1.574	NO	1.00	10.034	29.27	29.52	1.17	1.18	NO	138.7	69.6	0.387	
27	27 13C-2,3,4,7,8-PeCDF	1727683.3...	1.613	NO	0.962	10.034	30.50	30.50	1.21	1.21	NO	127.7	64.1	0.403	
28	28 13C-1,2,3,4,7,8-HxCDF	1173156.9...	0.510	NO	1.05	10.034	33.31	33.33	0.99	0.99	NO	142.7	71.6	0.246	
29	29 13C-1,2,3,6,7,8-HxCDF	1294611.3...	0.509	NO	1.19	10.034	33.41	33.44	0.99	0.99	NO	138.9	69.7	0.217	
30	30 13C-2,3,4,6,7,8-HxCDF	1012657.3...	0.508	NO	1.07	10.034	34.02	34.02	1.01	1.01	NO	121.3	60.8	0.242	
31	31 13C-1,2,3,7,8,9-HxCDF	937959.781	0.504	NO	0.922	10.034	34.92	34.90	1.04	1.04	NO	129.8	65.1	0.279	

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Name: 200211R2_9, Date: 11-Feb-2020, Time: 22:14:54, ID: 1903738-02 PDI-059SC-B-02-04-191016 12.59, Description: PDI-059SC-B-02-04-191016

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	698610.563	0.432	NO	0.767	10.034	36.68	36.65	1.09	1.09	NO	116.3	58.3	0.300	
33	13C-1,2,3,4,7,8,9-HpCDF	484205.797	0.437	NO	0.552	10.034	38.70	38.68	1.15	1.15	NO	111.9	56.2	0.417	
34	13C-OCDF	928182.500	0.858	NO	0.789	10.034	41.29	41.28	1.23	1.22	NO	150.1	37.7	0.191	
35	37Cl-2,3,7,8-TCDD	673783.375			1.18	10.034	25.78	25.80	1.03	1.03	NO	68.10	85.4	0.0404	
36	13C-1,2,3,4-TCDD	1676534.1...	0.811	NO	1.00	10.034	25.11	25.11	1.00	1.00	NO	199.3	100	0.223	
37	13C-1,2,3,4-TCDF	2803447.7...	0.792	NO	1.00	10.034	23.37	23.37	1.00	1.00	NO	199.3	100	0.269	
38	13C-1,2,3,4,6,9-HxCDF	1561221.2...	0.510	NO	1.00	10.034	33.71	33.71	1.00	1.00	NO	199.3	100	0.258	
39	Total Tetra-Dioxins				0.988	10.034	24.62		0.00		NO	0.2418		0.0876	0.2418
40	Total Penta-Dioxins				0.972	10.034	29.96		0.00		NO	0.0000		0.0655	0.3182
41	Total Hexa-Dioxins				0.921	10.034	33.63		0.00		NO	12.96		0.100	12.96
42	Total Hepta-Dioxins				0.923	10.034	37.64		0.00		NO	112.9		0.416	112.9
43	Total Tetra-Furans				0.802	10.034	23.61		0.00		NO	7.420		0.0650	7.420
44	1st Func. Penta-Furans				0.907	10.034	27.09		0.00		NO	1.466		0.0378	1.466
45	Total Penta-Furans				0.907	10.034	29.27		0.00		NO	7.145		0.0782	7.259
46	Total Hexa-Furans				0.898	10.034	33.56		0.00		NO	12.20		0.0693	12.20
47	Total Hepta-Furans				0.851	10.034	37.83		0.00		NO	26.35		0.195	26.35

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-9c.qld

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Name: 200211R2_9, Date: 11-Feb-2020, Time: 22:14:54, ID: 1903738-02 PDI-059SC-B-02-04-191016 12.59, Description: PDI-059SC-B-02-04-191016

Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	2.13e3	1.78e6	0.768	NO	24.62	21.71	0.2418	0.2418

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.16e6	0.727	YES	29.96	28.59	0.0000	0.3182

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.32e4	0.00e0	1.217	NO	33.63	32.72	5.468	5.468
2	41 Total Hexa-Dioxins	3.09e3	0.00e0	1.353	NO	33.63	33.27	0.7261	0.7261
3	41 Total Hexa-Dioxins	2.05e4	0.00e0	1.202	NO	33.63	33.52	4.820	4.820
4	41 Total Hexa-Dioxins	1.90e3	0.00e0	1.251	NO	33.63	33.63	0.4475	0.4475
5	3 1,2,3,4,7,8-HxCDD	4.89e3	8.56e5	1.272	NO	34.20	34.30	1.063	1.063
6	5 1,2,3,7,8,9-HxCDD	1.80e3	8.91e5	1.253	NO	34.60	34.56	0.4383	0.4383

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	2.08e5	6.74e5	1.007	NO	37.64	37.04	66.48	66.48
2	6 1,2,3,4,6,7,8-HpCDD	1.45e5	6.74e5	1.018	NO	38.08	38.09	46.41	46.41

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-9c.qld

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Name: 200211R2_9, Date: 11-Feb-2020, Time: 22:14:54, ID: 1903738-02 PDI-059SC-B-02-04-191016 12.59, Description: PDI-059SC-B-02-04-191016

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	5.26e3	2.49e6	0.757	NO	23.61	20.74	0.5246	0.5246
2	43 Total Tetra-Furans	7.83e3	2.49e6	0.756	NO	23.61	21.66	0.7809	0.7809
3	43 Total Tetra-Furans	3.41e3	2.49e6	0.701	NO	23.61	22.13	0.3402	0.3402
4	43 Total Tetra-Furans	2.14e3	2.49e6	0.696	NO	23.61	23.30	0.2130	0.2130
5	43 Total Tetra-Furans	5.54e3	2.49e6	0.773	NO	23.61	23.37	0.5521	0.5521
6	43 Total Tetra-Furans	1.97e4	2.49e6	0.752	NO	23.61	23.91	1.961	1.961
7	43 Total Tetra-Furans	3.90e3	2.49e6	0.767	NO	23.61	24.75	0.3893	0.3893
8	8 2,3,7,8-TCDF	2.21e4	2.49e6	0.743	NO	24.88	24.87	2.205	2.205
9	43 Total Tetra-Furans	1.63e3	2.49e6	0.881	NO	23.61	25.26	0.1629	0.1629
10	43 Total Tetra-Furans	2.92e3	2.49e6	0.840	NO	23.61	26.92	0.2911	0.2911

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	1.23e4	0.00e0	1.552	NO	27.09	26.93	1.466	1.466

Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	0.00e0	0.00e0	1.174	YES	29.27	28.39	0.0000	0.1148
2	45 Total Penta-Furans	1.46e4	0.00e0	1.564	NO	29.27	28.53	1.746	1.746
3	45 Total Penta-Furans	3.65e3	0.00e0	1.339	NO	29.27	29.13	0.4356	0.4356
4	45 Total Penta-Furans	3.21e3	0.00e0	1.491	NO	29.27	29.34	0.3826	0.3826
5	9 1,2,3,7,8-PeCDF	2.05e4	1.95e6	1.616	NO	29.54	29.52	2.303	2.303
6	45 Total Penta-Furans	7.11e3	0.00e0	1.337	NO	29.27	29.81	0.8484	0.8484
7	10 2,3,4,7,8-PeCDF	3.35e3	1.73e6	1.655	NO	30.51	30.51	0.4067	0.4067
8	45 Total Penta-Furans	8.57e3	0.00e0	1.752	NO	29.27	30.53	1.023	1.023

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Name: 200211R2_9, Date: 11-Feb-2020, Time: 22:14:54, ID: 1903738-02 PDI-059SC-B-02-04-191016 12.59, Description: PDI-059SC-B-02-04-191016

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	3.09e3	0.00e0	1.113	NO	33.56	32.17	0.6217	0.6217
2	46 Total Hexa-Furans	8.58e3	0.00e0	1.093	NO	33.56	32.34	1.723	1.723
3	46 Total Hexa-Furans	1.80e4	0.00e0	1.194	NO	33.56	32.88	3.613	3.613
4	11 1,2,3,4,7,8-HxCDF	2.11e4	1.17e6	1.204	NO	33.33	33.34	4.149	4.149
5	12 1,2,3,6,7,8-HxCDF	5.60e3	1.29e6	1.261	NO	33.45	33.46	1.025	1.025
6	13 2,3,4,6,7,8-HxCDF	2.22e3	1.01e6	1.209	NO	34.05	34.03	0.4872	0.4872
7	14 1,2,3,7,8,9-HxCDF	6.42e2	9.38e5	1.059	NO	34.90	34.94	0.1591	0.1591
8	46 Total Hexa-Furans	2.10e3	0.00e0	1.205	NO	33.56	34.96	0.4225	0.4225

Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	1.98e4	6.99e5	0.973	NO	36.69	36.66	6.633	6.633
2	47 Total Hepta-Furans	4.72e4	0.00e0	0.988	NO	37.83	37.25	18.68	18.68
3	16 1,2,3,4,7,8,9-HpCDF	2.45e3	4.84e5	1.145	NO	38.68	38.68	1.030	1.030

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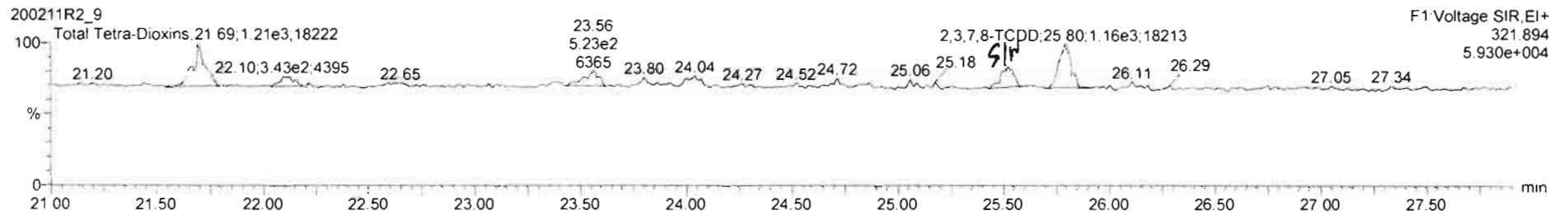
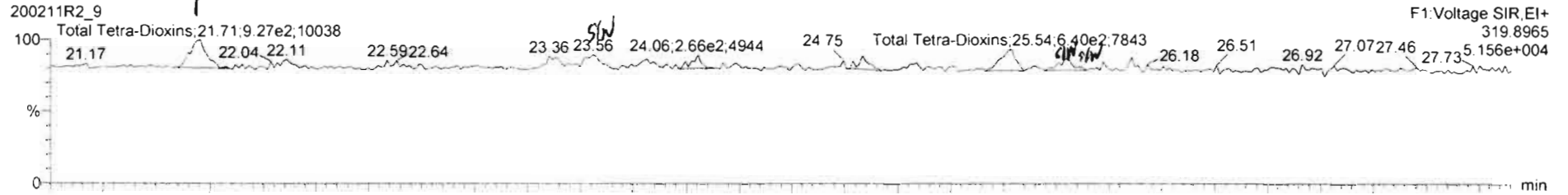
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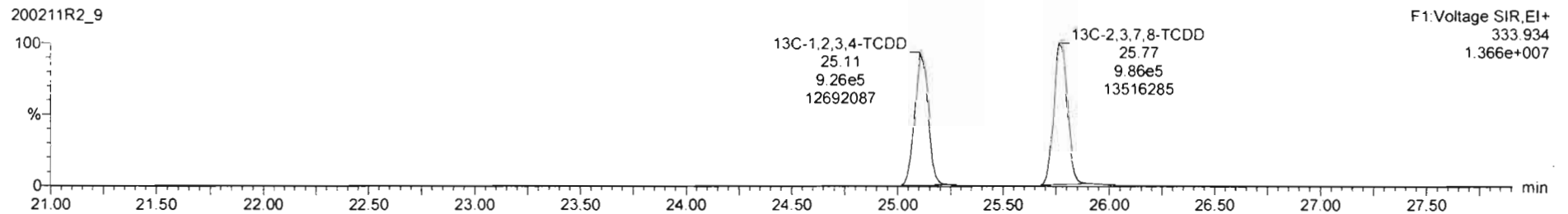
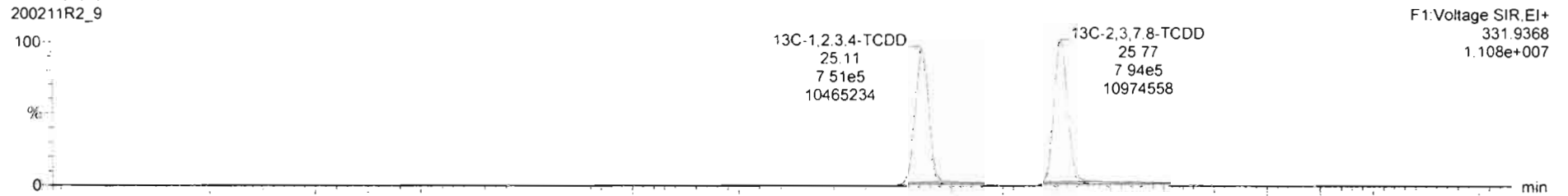
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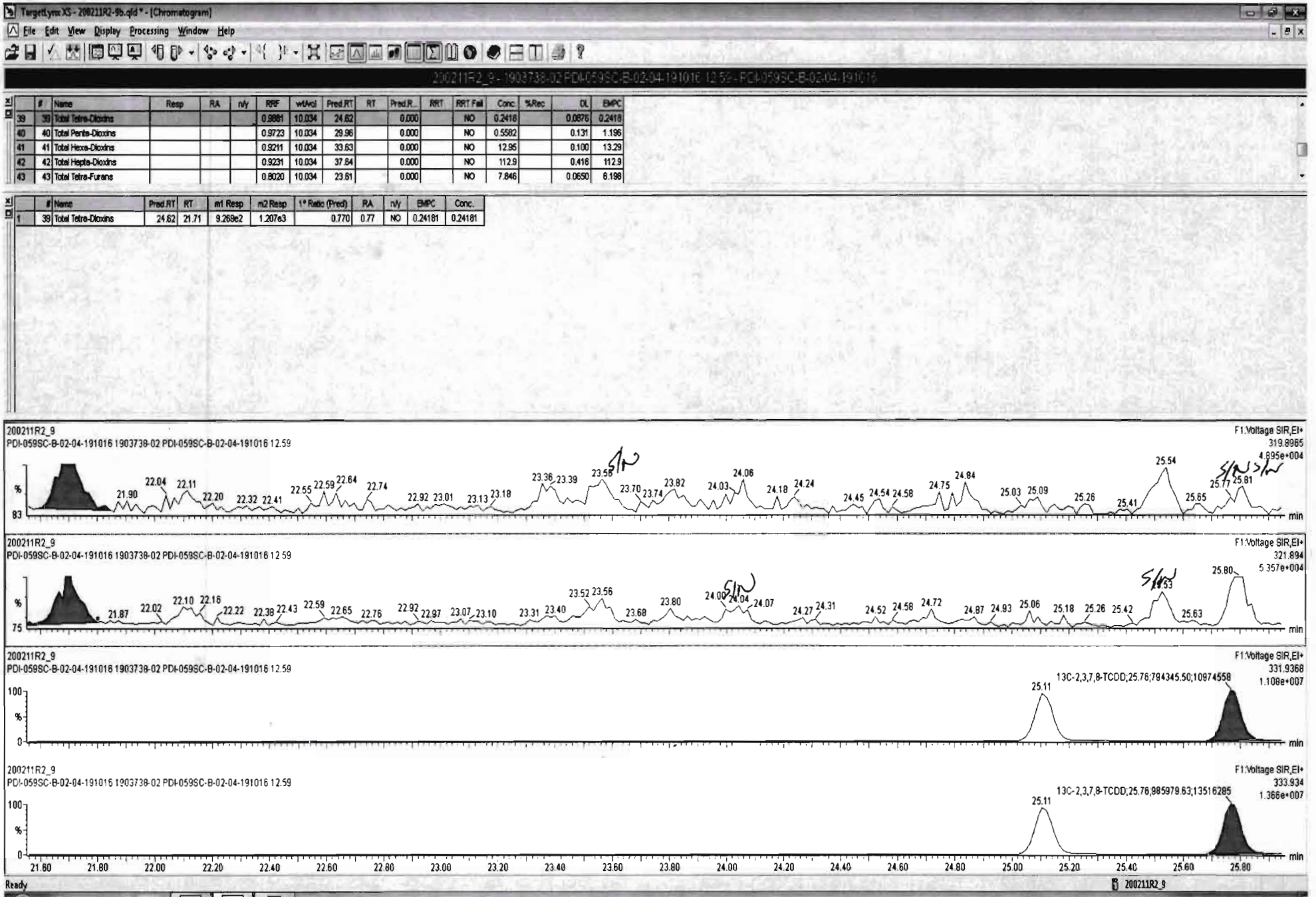
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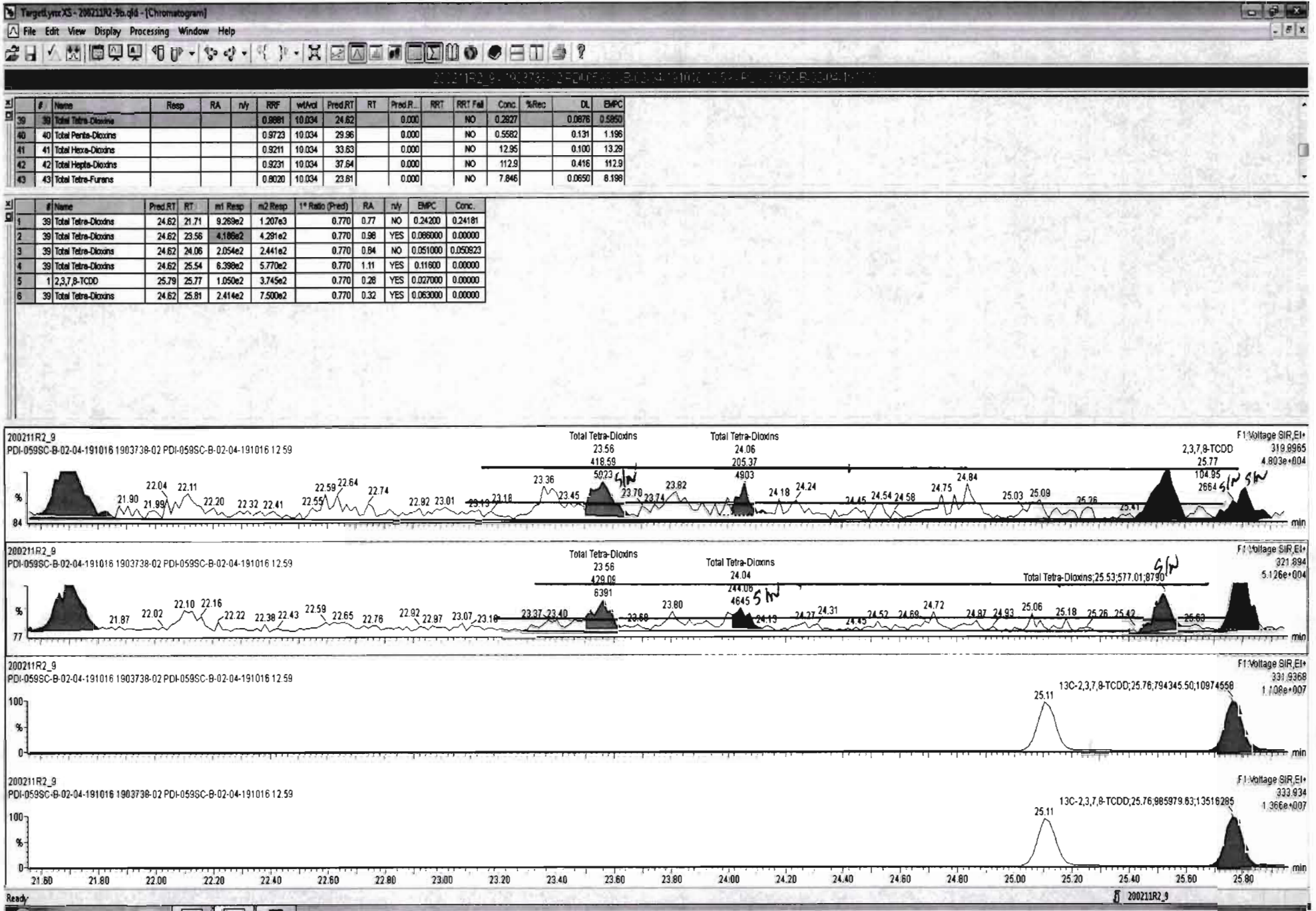
2,3,7,8-TCDD



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







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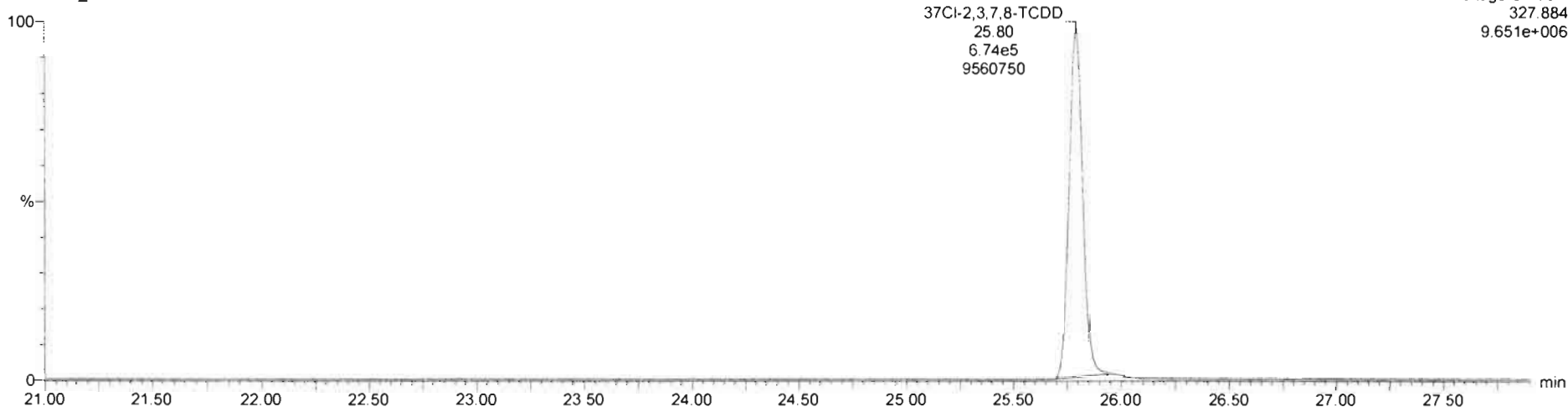
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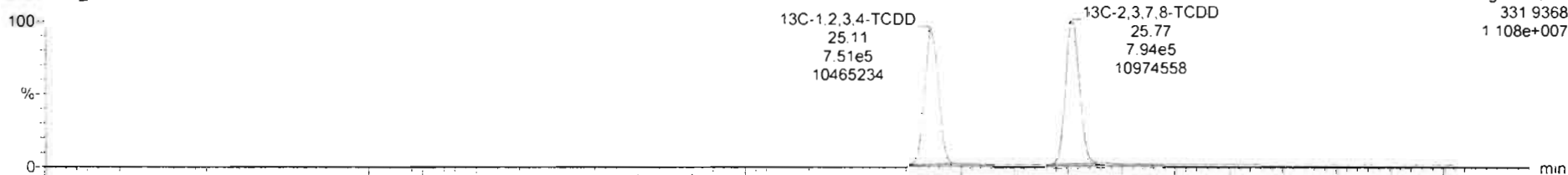
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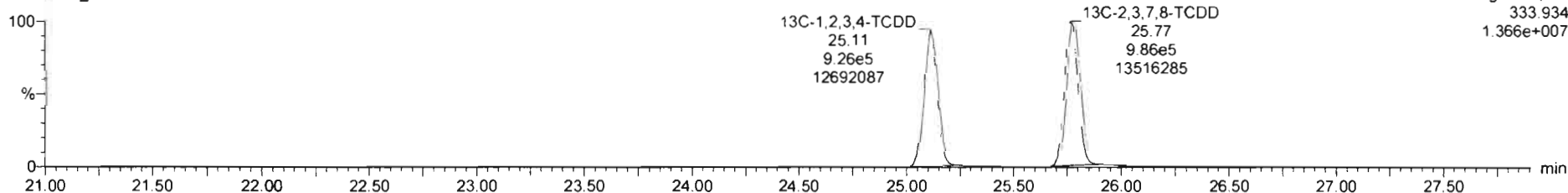


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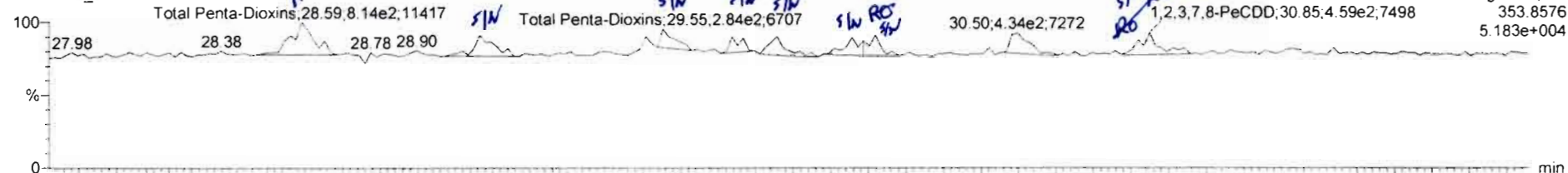
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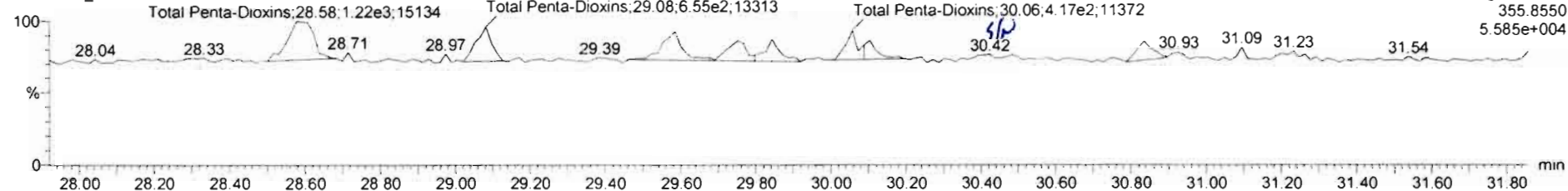
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1,2,3,7,8-PeCDD

200211R2_9

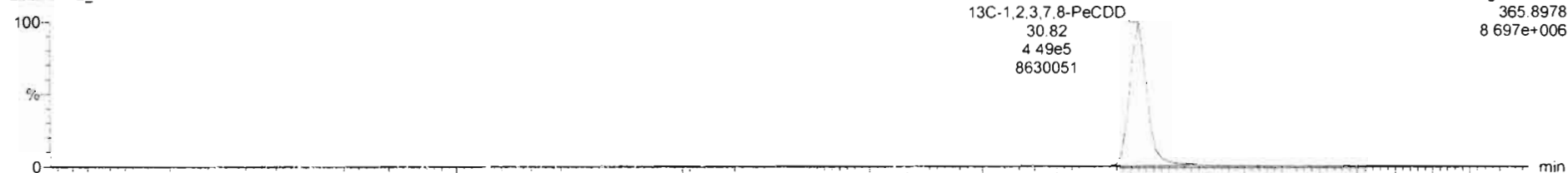


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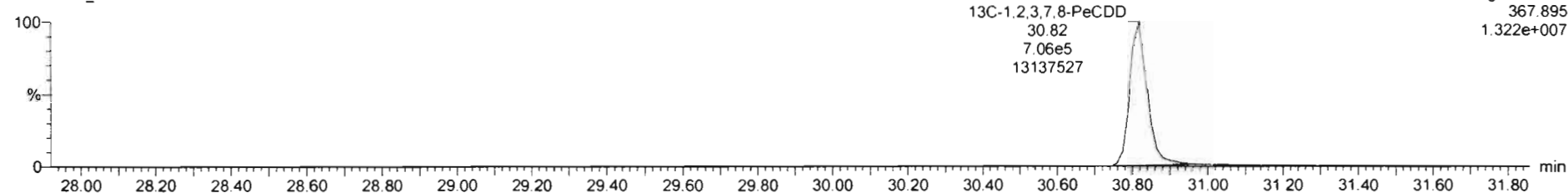


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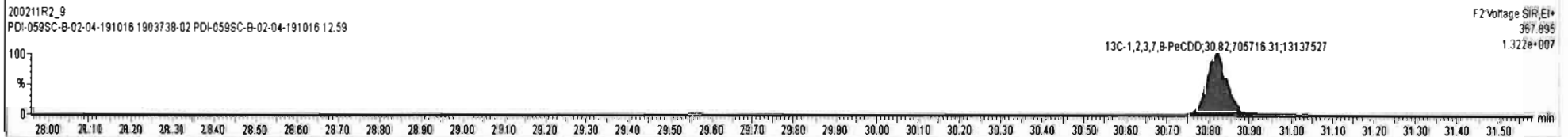
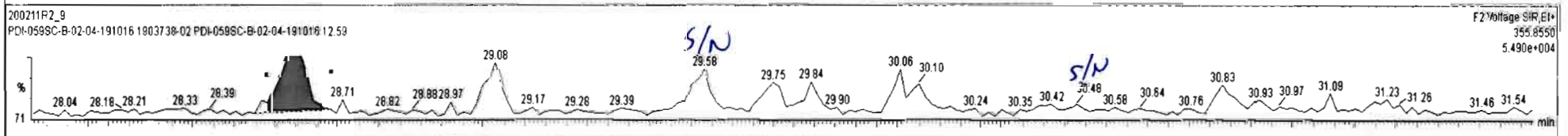
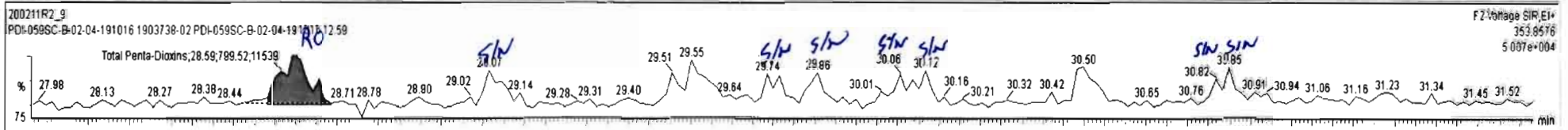
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200211R2_9 - 1903738-02.PDI-059SC-B-02-04-191016 12:59 - PDI-059SC-B-02-04-191016

#	Name	Resp	RA	nly	RRF	wt/col	Pred.RT	RT	Prod.R.	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.034	24.62		0.000		NO	0.2418		0.0876	0.2418
40	Total Penta-Dioxins				0.9723	10.034	29.96		0.000		NO	0.0000		0.0655	0.3182
41	Total Hexa-Dioxins				0.9211	10.034	33.63		0.000		NO	12.95		0.100	13.29
42	Total Hepta-Dioxins				0.9231	10.034	37.64		0.000		NO	112.9		0.416	112.9
43	Total Tetra-Furans				0.8020	10.034	23.61		0.000		NO	7.846		0.0690	8.198

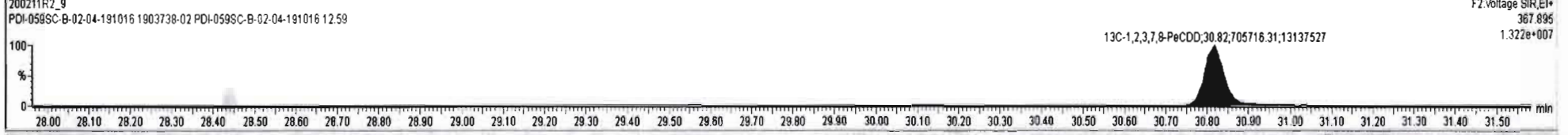
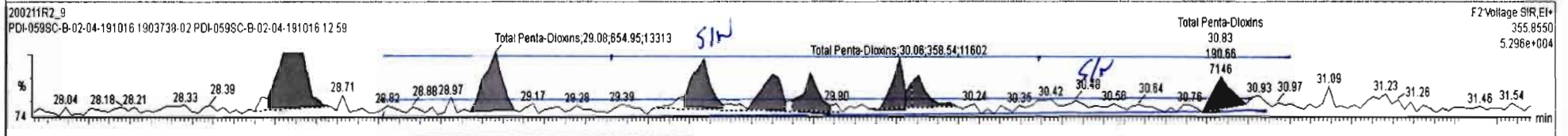
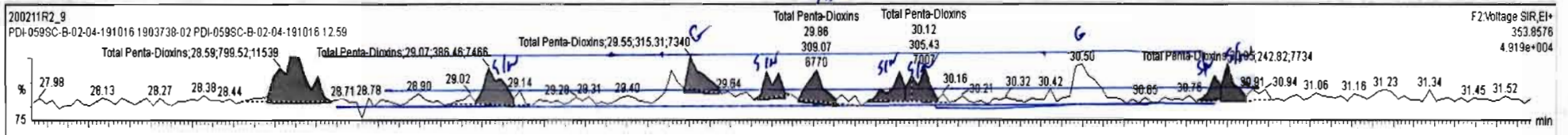
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	26.59	7.585e2	1.100e3	0.630	0.73	YES	0.31820	0.00000



200211R2_9 - 1903738-02 PDI-059SC-B-02-04-191016 12:59 - PDI-059SC-B-02-04-191016

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	39 Total Tetra-Dioxins				0.9881	10.034	24.62		0.000		NO	0.2418		0.0676	0.2418
40	40 Total Penta-Dioxins				0.9723	10.034	29.96		0.000		NO	0.5582		0.131	1.196
41	41 Total Hexa-Dioxins				0.9211	10.034	33.83		0.000		NO	12.95		0.100	13.29
42	42 Total Hepta-Dioxins				0.9231	10.034	37.64		0.000		NO	112.9		0.416	112.9
43	43 Total Tetra-Furans				0.8020	10.034	23.61		0.000		NO	7.846		0.0650	8.198

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.59	7.995e2	1.100e3	0.630	0.73	YES	0.31820	0.00000
2	40 Total Penta-Dioxins	29.96	28.07	3.865e2	6.549e2	0.630	0.59	NO	0.18480	0.18480
3	40 Total Penta-Dioxins	29.96	29.55	3.153e2	5.368e2	0.630	0.59	NO	0.15121	0.15121
4	40 Total Penta-Dioxins	29.96	29.74	2.358e2	4.342e2	0.630	0.54	NO	0.11880	0.11880
5	40 Total Penta-Dioxins	29.96	29.86	3.091e2	4.067e2	0.630	0.76	YES	0.11763	0.00000
6	40 Total Penta-Dioxins	29.96	30.06	2.234e2	3.585e2	0.630	0.62	NO	0.10327	0.10327
7	40 Total Penta-Dioxins	29.96	30.12	3.054e2	3.397e2	0.630	0.90	YES	0.088262	0.00000
8	2 1,2,3,7,8-PeCDD	30.83	30.82	1.312e2	1.663e2	0.630	0.79	YES	0.048095	0.00000
9	40 Total Penta-Dioxins	29.96	30.85	2.428e2	1.907e2	0.630	1.27	YES	0.055149	0.00000



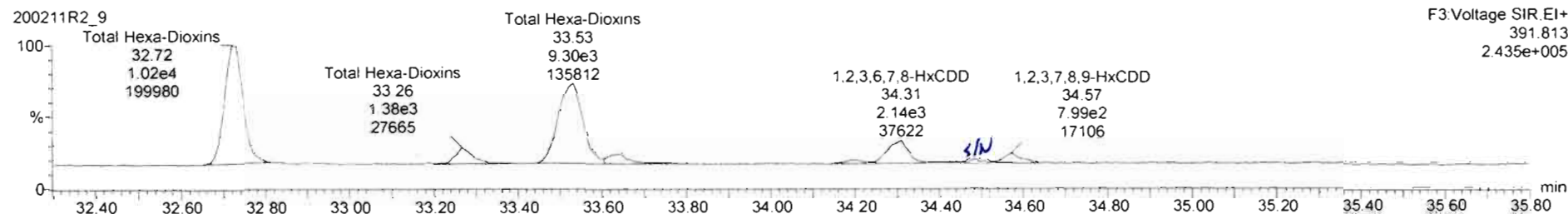
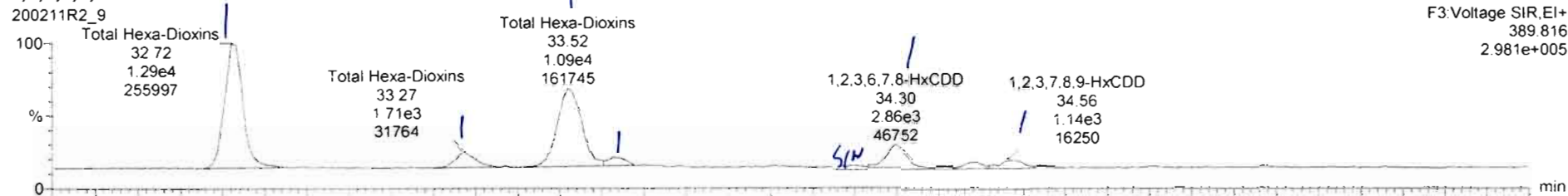
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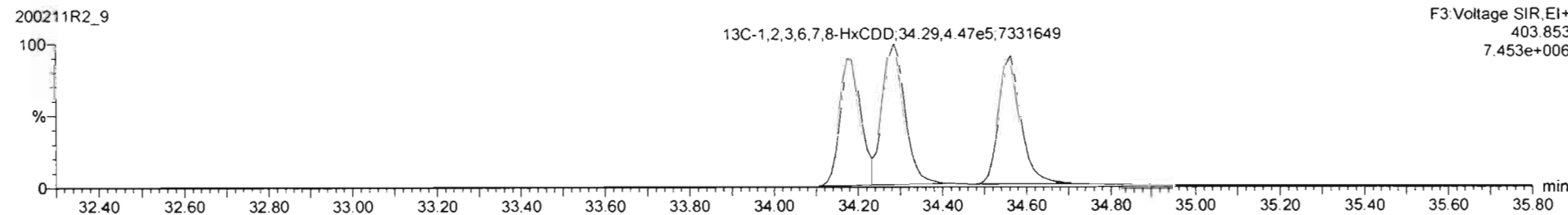
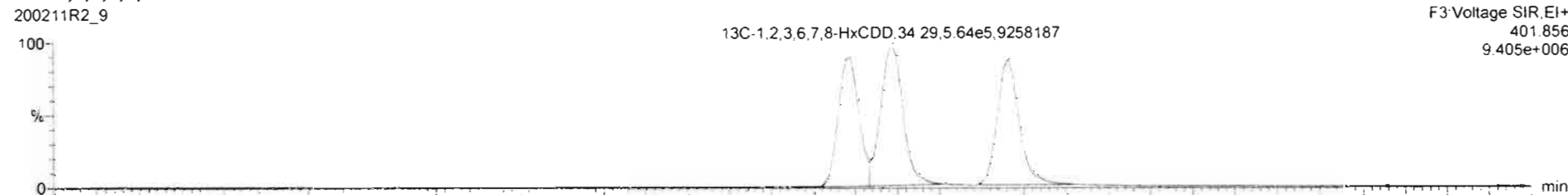
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1,2,3,4,7,8-HxCDD



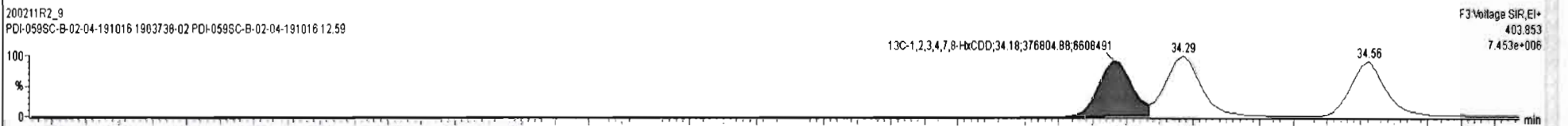
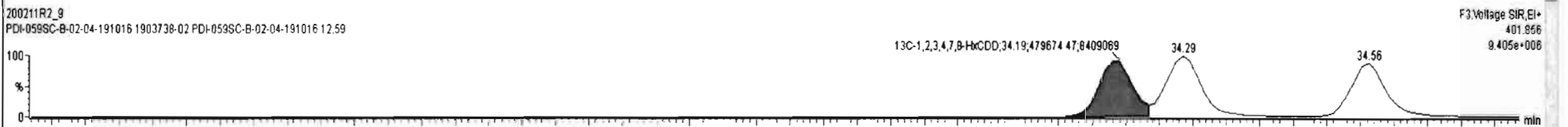
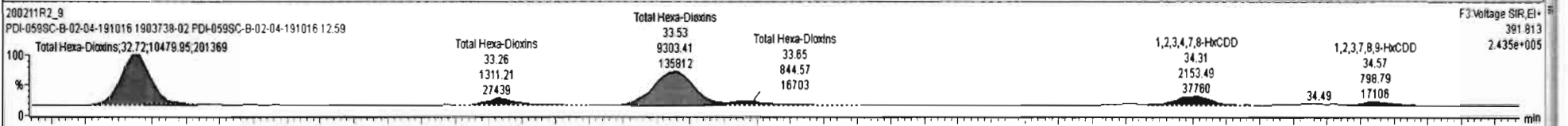
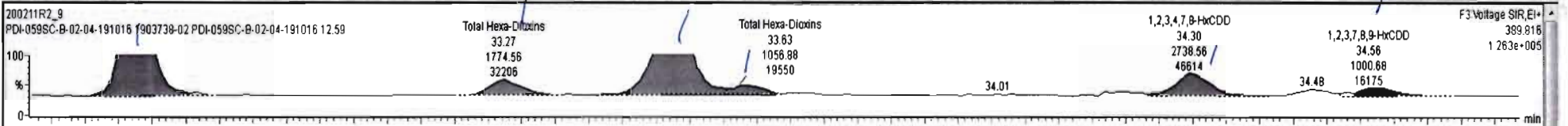
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200211R2_9 - 1903738-02 PDI-059SC-B-02-04-191016 12.59 - PDI-059SC-B-02-04-191016

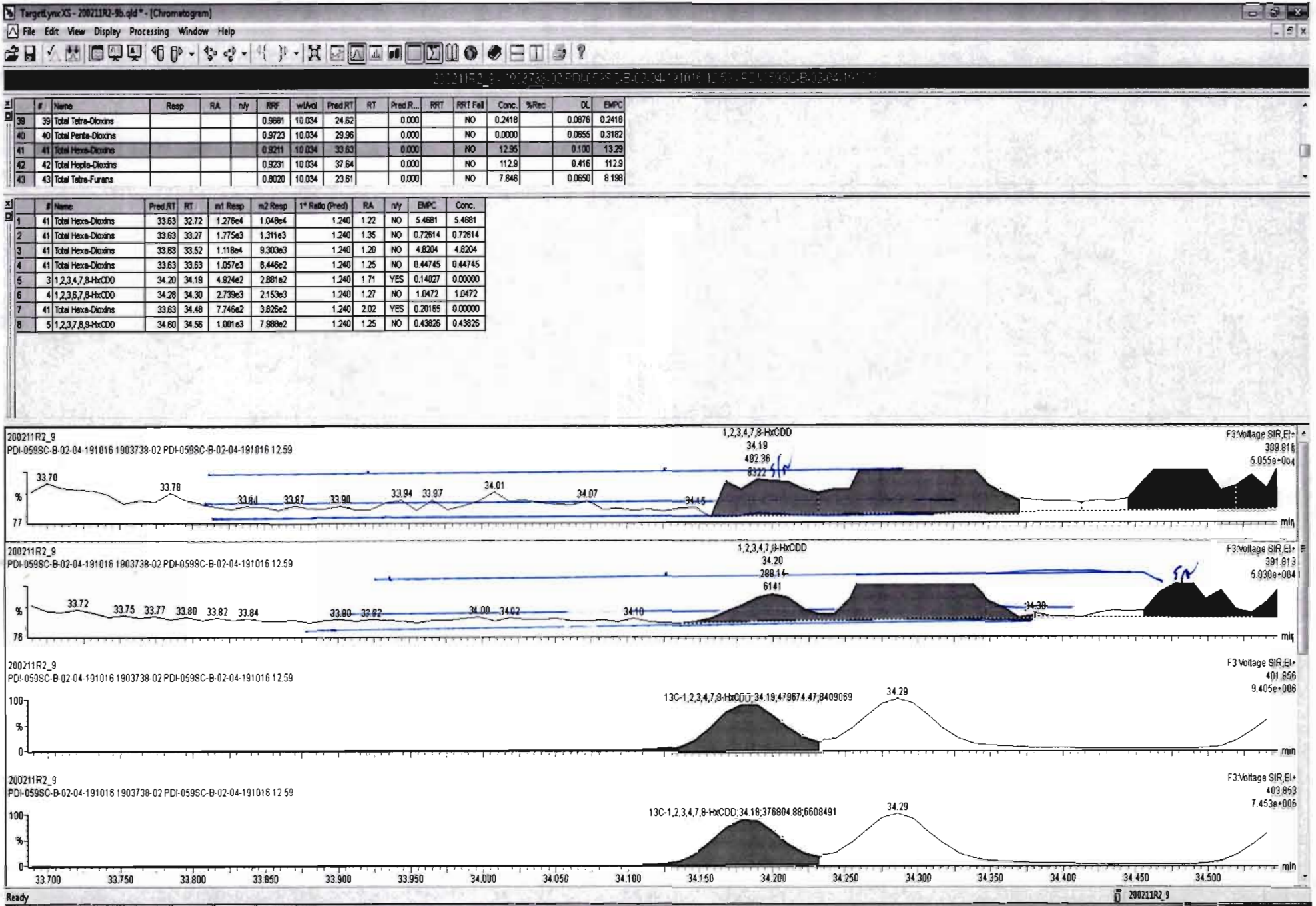
#	Name	Resp	RA	n/y	RRF	w/wd	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.034	24.52		0.000		NO	0.2418		0.0876	0.2418
40	Total Penta-Dioxins				0.9723	10.034	29.96		0.000		NO	0.0000		0.0655	0.3182
41	Total Hexa-Dioxins				0.9221	10.034	33.63		0.000		NO	12.96		0.100	12.96
42	Total Hepta-Dioxins				0.9231	10.034	37.64		0.000		NO	112.9		0.416	112.9
43	Total Tetra-Furans				0.8020	10.034	23.61		0.000		NO	7.846		0.0650	8.198

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.72	1.278e4	1.048e4	1.240	1.22	NO	5.4681	5.4681
2	41 Total Hexa-Dioxins	33.63	33.27	1.775e3	1.311e3	1.240	1.35	NO	0.72614	0.72614
3	41 Total Hexa-Dioxins	33.63	33.52	1.118e4	9.300e3	1.240	1.20	NO	4.8204	4.8204
4	41 Total Hexa-Dioxins	33.63	33.63	1.057e3	8.448e2	1.240	1.25	NO	0.44745	0.44745
5	3 1,2,3,4,7,8-HxCDD	34.20	34.30	2.739e3	2.153e3	1.240	1.27	NO	1.0632	1.0632
6	5 1,2,3,7,8,9-HxCDD	34.60	34.56	1.001e3	7.988e2	1.240	1.25	NO	0.43826	0.43826



Custom Reporting: Select reports to generate

200211R2_9



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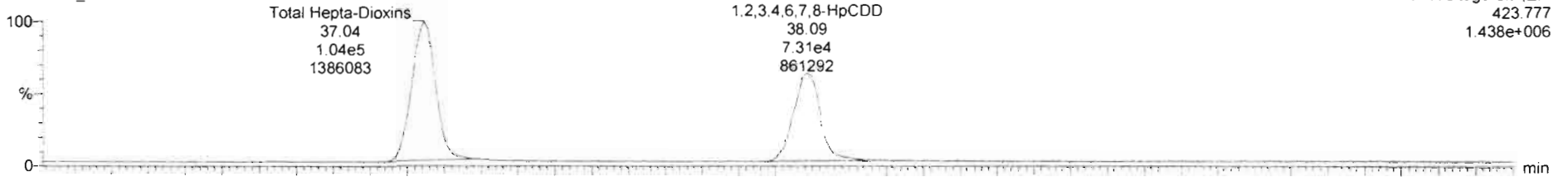
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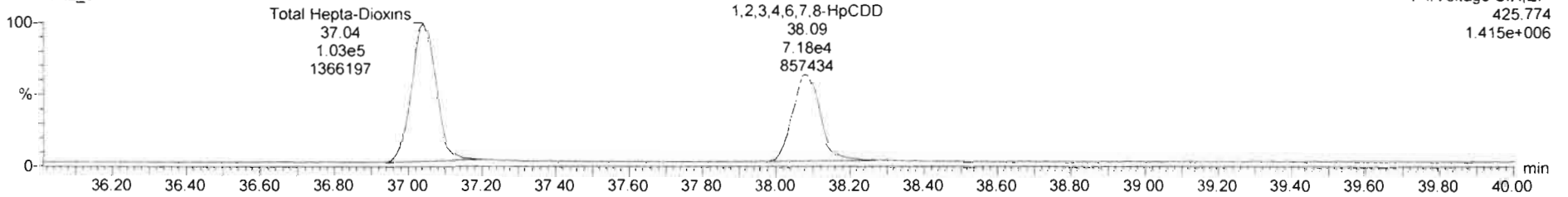
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1,2,3,4,6,7,8-HpCDD

200211R2_9

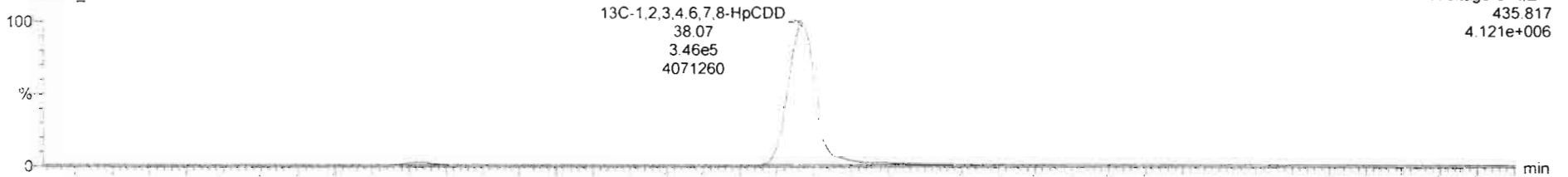


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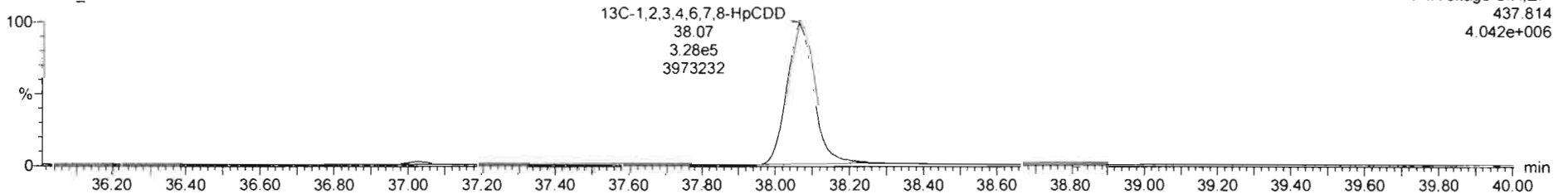


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200211R2_9



200211R2_9

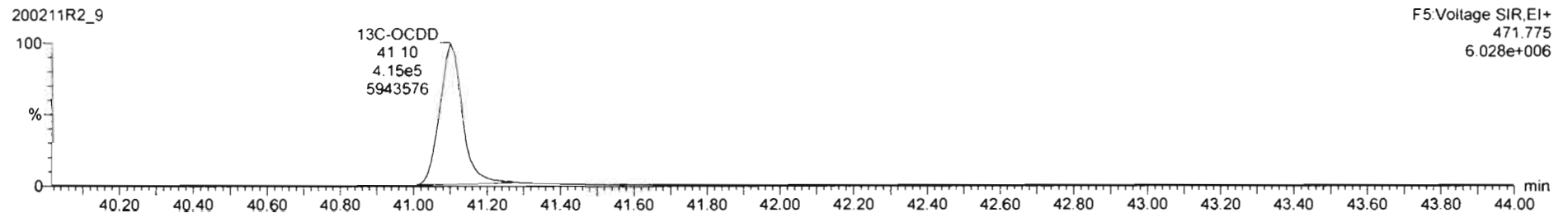
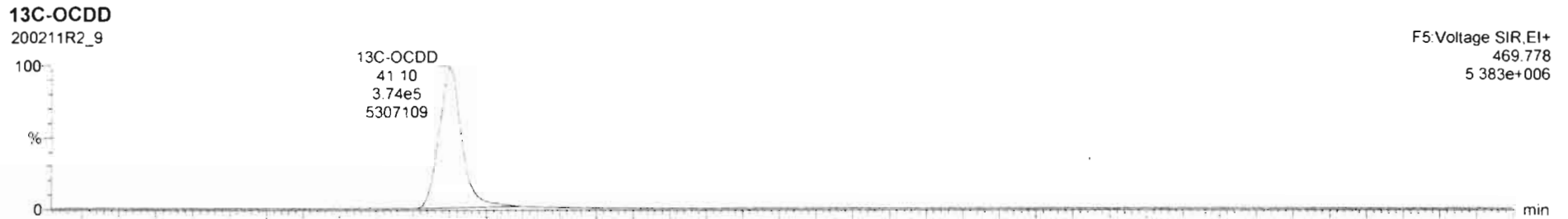
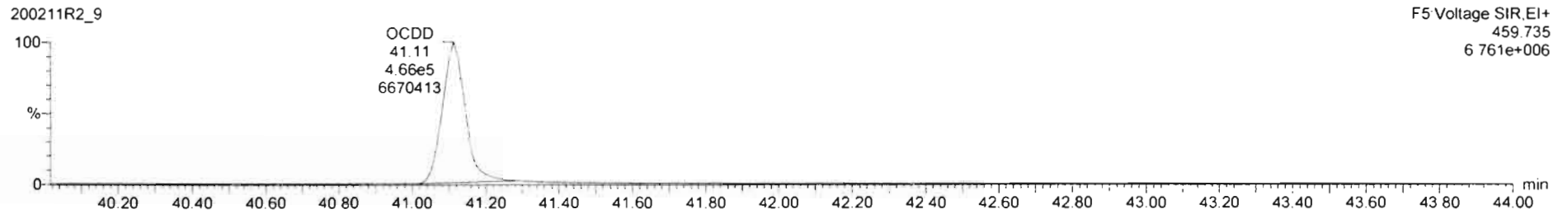
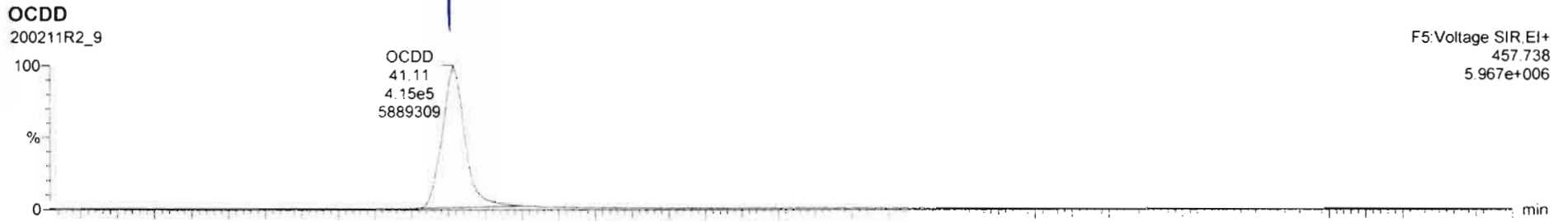


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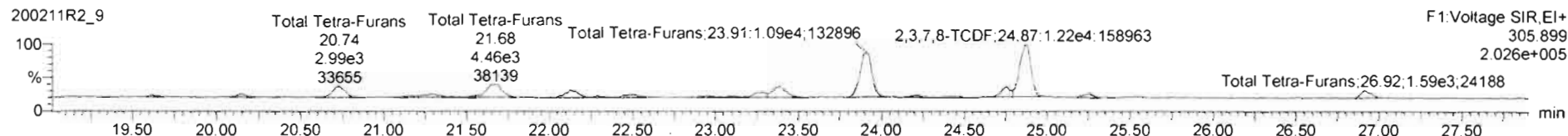
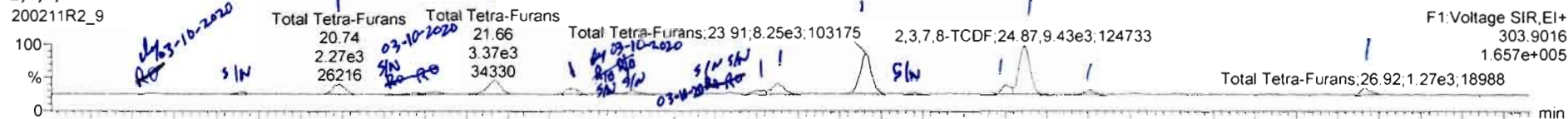


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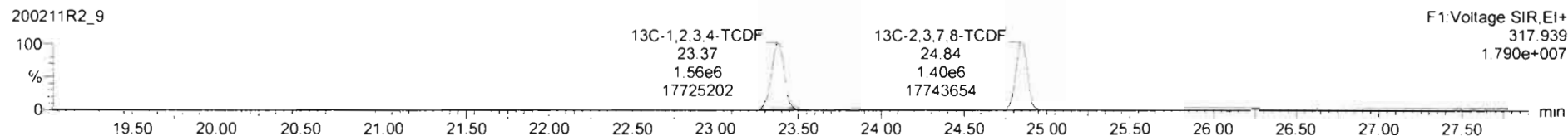
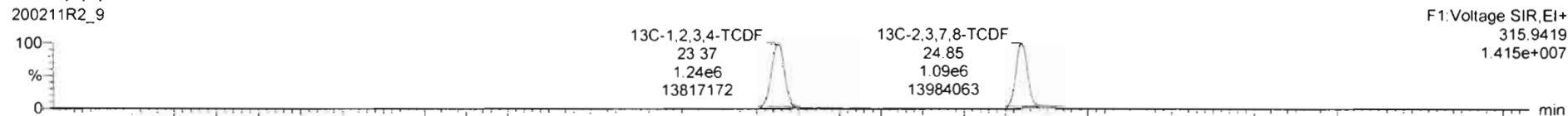
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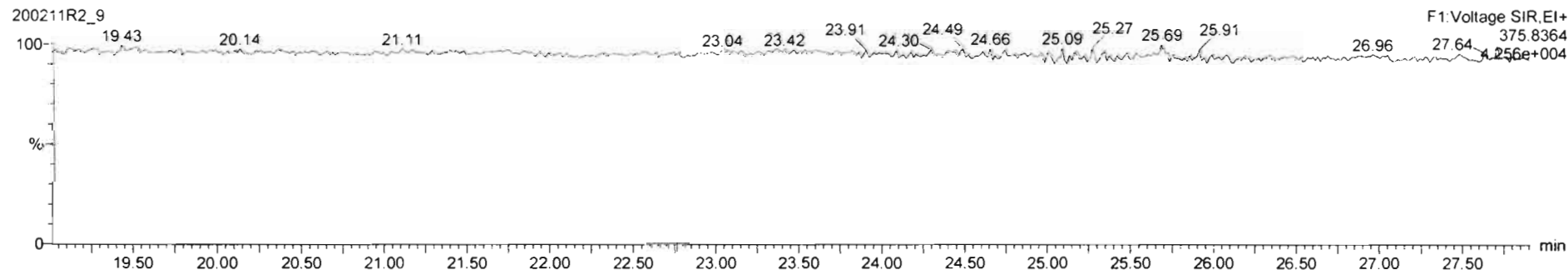
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13C-2,3,7,8-TCDF

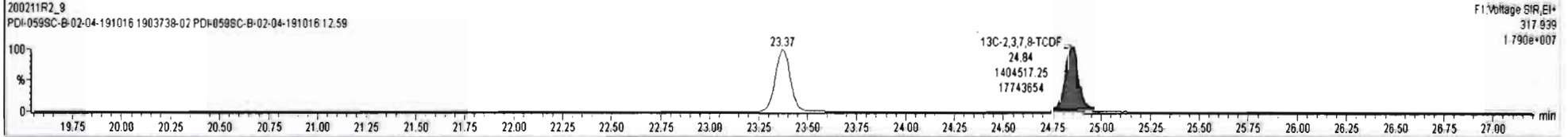
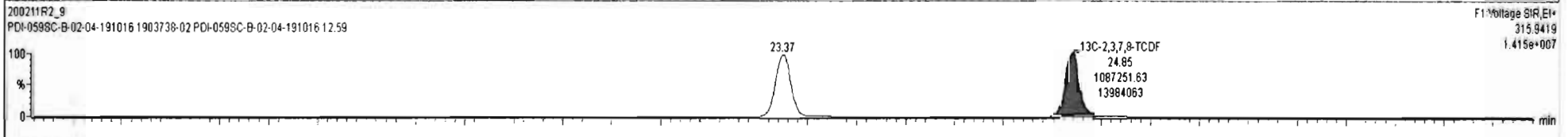
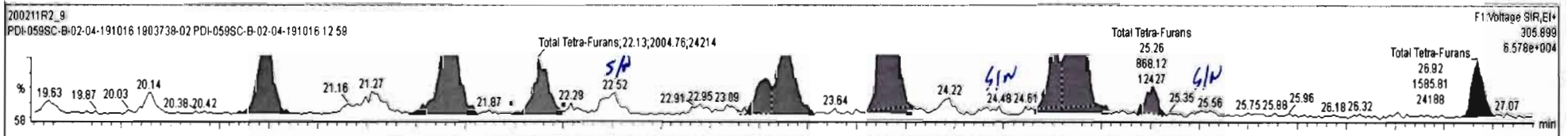
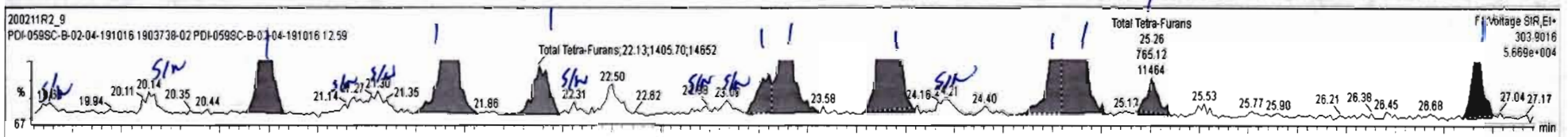


DPE1



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9723	10.034	29.96		0.000		NO	0.0000		0.0655	0.3182
41	Total Hexa-Dioxins				0.9211	10.034	33.63		0.000		NO	12.96		0.100	12.96
42	Total Hepta-Dioxins				0.9231	10.034	37.64		0.000		NO	112.9		0.416	112.9
43	Total Tetra-Furans				0.8020	10.034	23.81		0.000		NO	7.420		0.0850	7.420
44	1st Func. Penta-Furans				0.9074	10.034	27.09		0.000		NO	1.486		0.0378	1.486

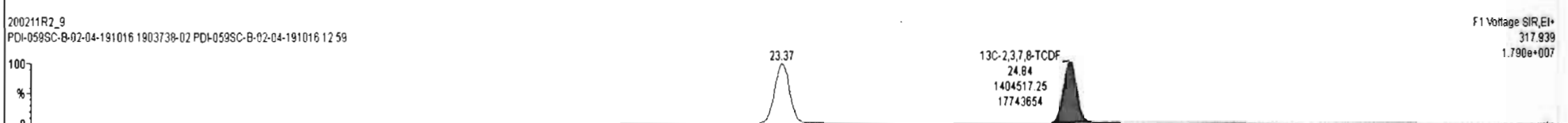
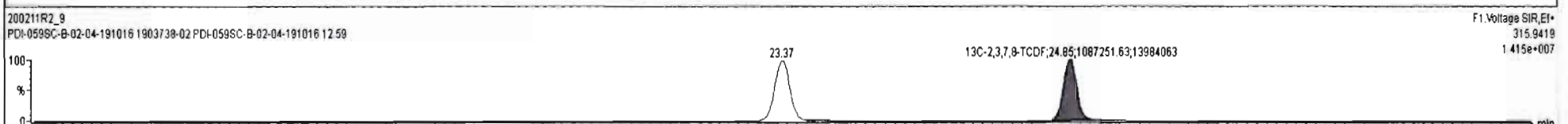
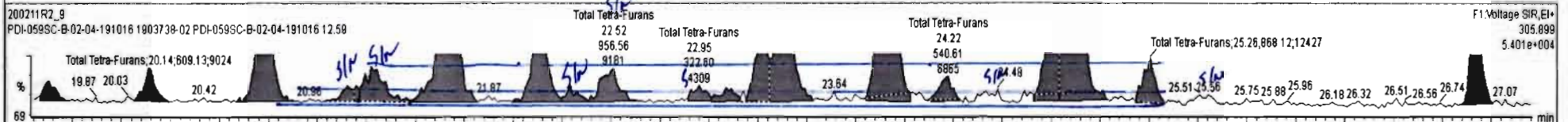
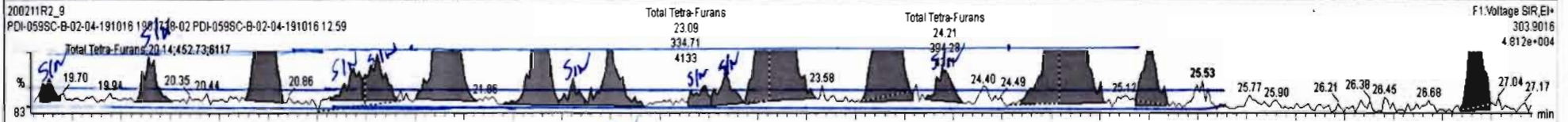
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	20.74	2.265e3	2.995e3	0.770	0.76	NO	0.52464	0.52464
2	43 Total Tetra-Furans	23.61	21.66	3.372e3	4.458e3	0.770	0.76	NO	0.78094	0.78094
3	43 Total Tetra-Furans	23.61	22.13	1.406e3	2.005e3	0.770	0.70	NO	0.34016	0.34016
4	43 Total Tetra-Furans	23.61	23.30	8.764e2	1.260e3	0.770	0.70	NO	0.21303	0.21303
5	43 Total Tetra-Furans	23.61	23.37	2.413e3	3.122e3	0.770	0.77	NO	0.55211	0.55211
6	43 Total Tetra-Furans	23.61	23.91	8.436e3	1.122e4	0.770	0.75	NO	1.9606	1.9606
7	43 Total Tetra-Furans	23.61	24.75	1.695e3	2.209e3	0.770	0.77	NO	0.38930	0.38930
8	6 2,3,7,8-TCDF	24.88	24.87	9.426e3	1.268e4	0.770	0.74	NO	2.2052	2.2052
9	43 Total Tetra-Furans	23.61	25.26	7.851e2	8.881e2	0.770	0.88	NO	0.16290	0.16290
10	43 Total Tetra-Furans	23.61	26.92	1.333e3	1.586e3	0.770	0.84	NO	0.29109	0.29109



200211R2_9 - 1903738-02 PDI-059SC-B-02-04-191016 12:59 - PDI-059SC-B-02-04-191016

#	Name	Resp	RA	n/y	RRF	wtAvd	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.034	24.62		0.000		NO	0.2418		0.0676	0.2418
40	Total Penta-Dioxins				0.9723	10.034	29.96		0.000		NO	0.0000		0.0655	0.3182
41	Total Hexa-Dioxins				0.9211	10.034	33.63		0.000		NO	12.96		0.100	12.96
42	Total Hepta-Dioxins				0.9231	10.034	37.84		0.000		NO	112.9		0.416	112.9
43	Total Tetra-Furans				0.8020	10.034	23.61		0.000		NO	7.846		0.0650	8.198

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	19.63	1.926e2	3.761e2	0.770	0.51	YES	0.044154	0.00000
2	Total Tetra-Furans	23.61	20.14	4.527e2	6.091e2	0.770	0.74	NO	0.10591	0.10591
3	Total Tetra-Furans	23.61	20.74	2.265e3	2.995e3	0.770	0.76	NO	0.52464	0.52464
4	Total Tetra-Furans	23.61	21.19	3.657e2	3.754e2	0.770	0.97	YES	0.066281	0.00000
5	Total Tetra-Furans	23.61	21.30	6.021e2	1.070e3	0.770	0.96	YES	0.13805	0.00000
6	Total Tetra-Furans	23.61	21.66	3.372e3	4.458e3	0.770	0.76	NO	0.78094	0.78094
7	Total Tetra-Furans	23.61	22.13	1.406e3	2.005e3	0.770	0.70	NO	0.34016	0.34016
8	Total Tetra-Furans	23.61	22.31	2.079e2	2.679e2	0.770	0.78	NO	0.047446	0.047446
9	Total Tetra-Furans	23.61	22.50	8.433e2	9.566e2	0.770	0.88	NO	0.17952	0.17952
10	Total Tetra-Furans	23.61	22.98	2.068e2	3.226e2	0.770	0.64	YES	0.047403	0.00000
11	Total Tetra-Furans	23.61	23.09	3.347e2	3.200e2	0.770	1.05	YES	0.058485	0.00000
12	Total Tetra-Furans	23.61	23.30	8.764e2	1.260e3	0.770	0.70	NO	0.21303	0.21303
13	Total Tetra-Furans	23.61	23.37	2.413e3	3.122e3	0.770	0.77	NO	0.55211	0.55211
14	Total Tetra-Furans	23.61	23.91	8.436e3	1.122e4	0.770	0.75	NO	1.9806	1.9806



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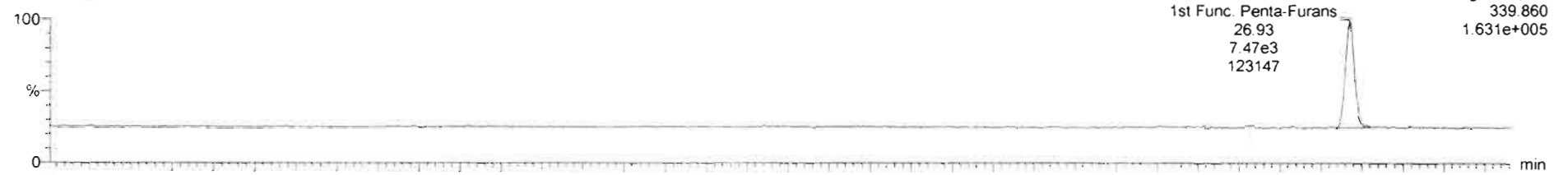
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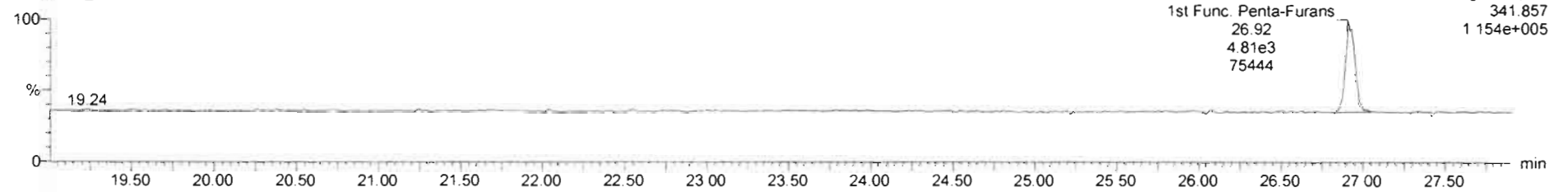
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1st Func. Penta-Furans

200211R2_9

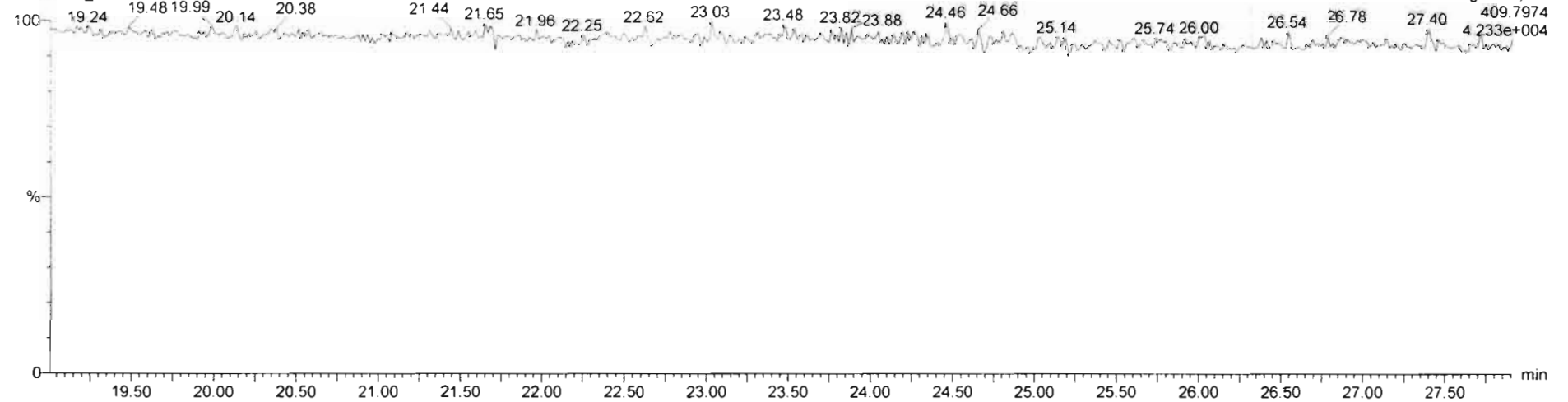


200211R2_9



DPE6

200211R2_9



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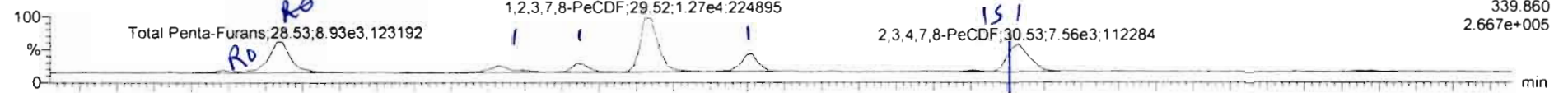
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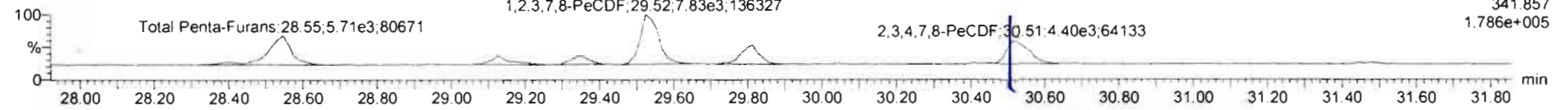
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1,2,3,7,8-PeCDF

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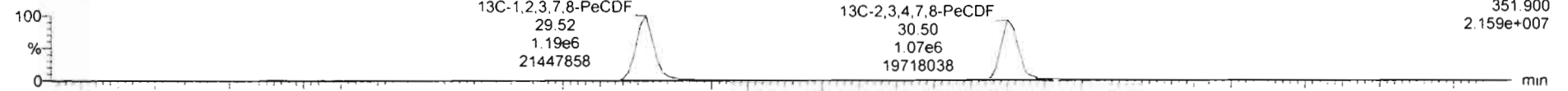


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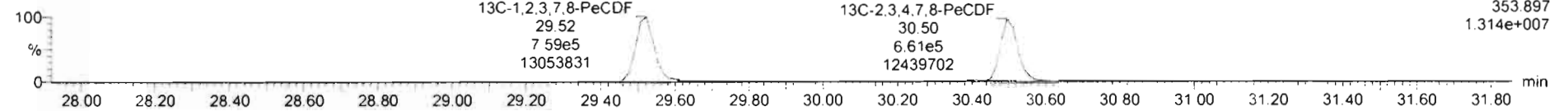


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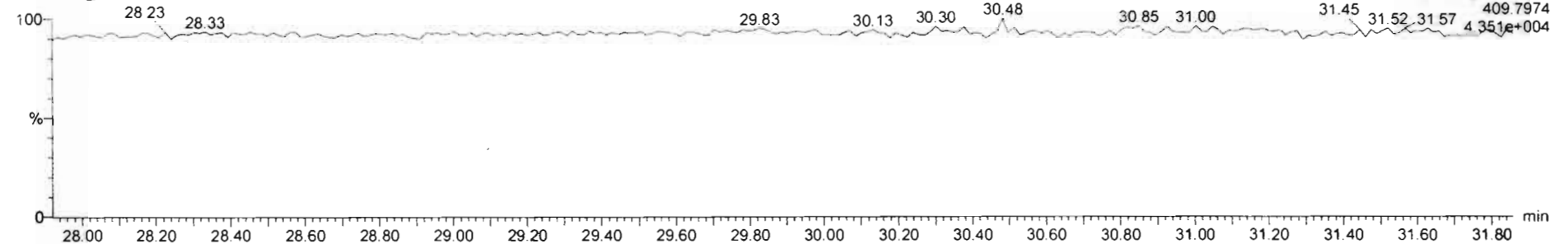


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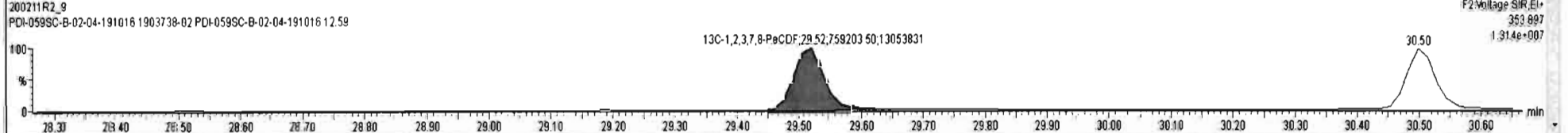
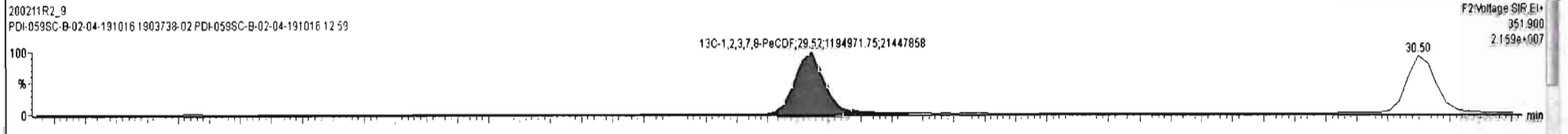
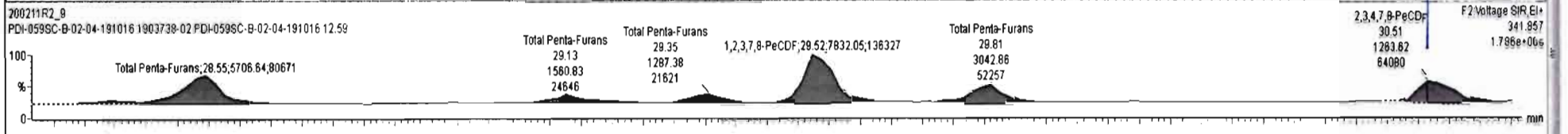
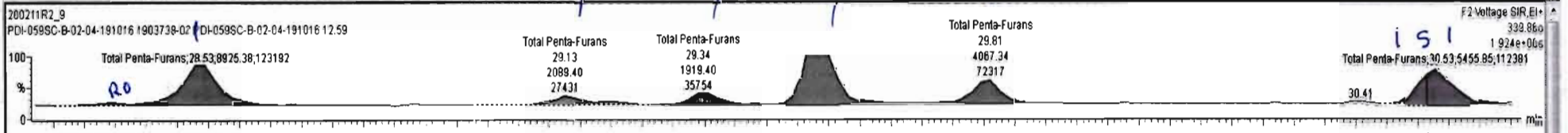
DPE2

200211R2_9



#	Name	Resp	RA	nly	RRF	wtVol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.034	29.27		0.000		NO	7.145		0.0782	7.259
46	Total Hexa-Furans				0.8982	10.034	33.56		0.000		NO	12.30		0.0693	12.30
47	Total Hepta-Furans				0.8511	10.034	37.83		0.000		NO	26.35		0.195	26.35
48	PFK1														
49	PFK2														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	45 Total Penta-Furans	29.27	28.39	5.849e2	4.984e2	1.550	1.17	YES	0.11481	0.00000
2	45 Total Penta-Furans	29.27	28.53	8.925e3	5.707e3	1.550	1.56	NO	1.7459	1.7459
3	45 Total Penta-Furans	29.27	29.13	2.089e3	1.581e3	1.550	1.34	NO	0.43555	0.43555
4	45 Total Penta-Furans	29.27	29.34	1.919e3	1.287e3	1.550	1.49	NO	0.38264	0.38264
5	9 1,2,3,7-β-PeCDF	29.54	29.52	1.265e4	7.832e3	1.550	1.62	NO	2.3027	2.3027
6	45 Total Penta-Furans	29.27	28.81	4.067e3	3.043e3	1.550	1.34	NO	0.84840	0.84840
7	10 2,3,4,7-β-PeCDF	30.51	30.51	2.091e3	1.264e3	1.550	1.85	NO	0.40665	0.40665
8	45 Total Penta-Furans	29.27	30.53	5.456e3	3.115e3	1.550	1.75	NO	1.0227	1.0227

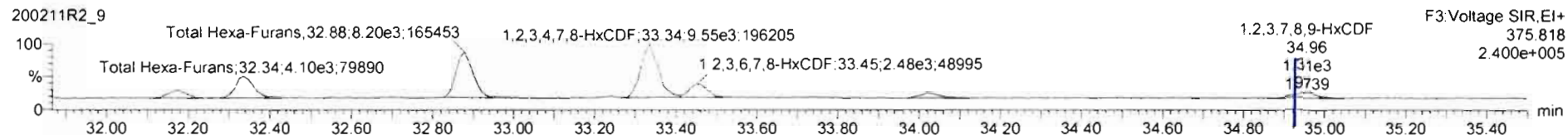
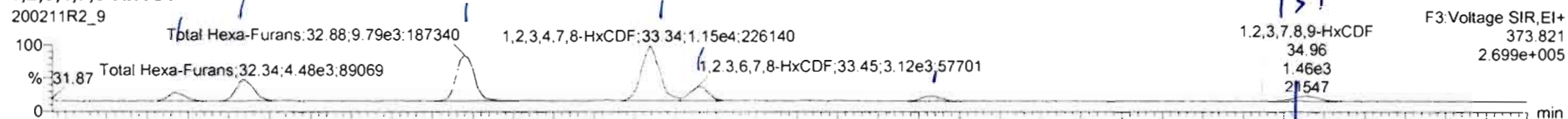


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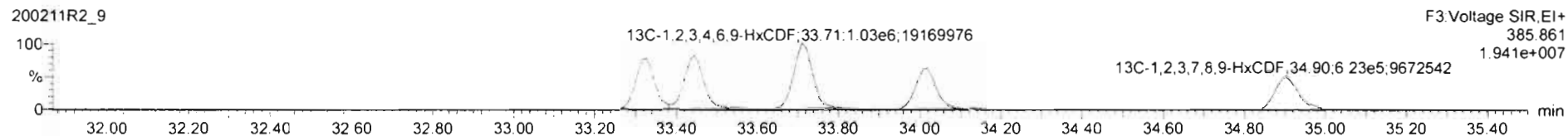
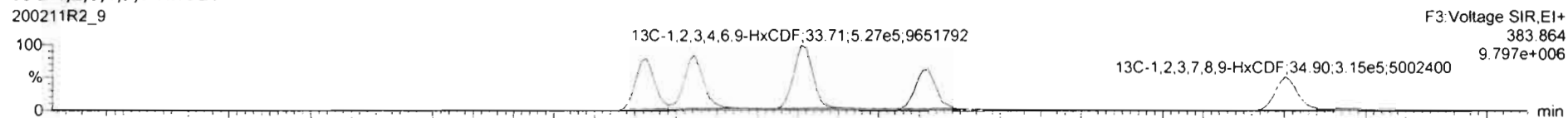
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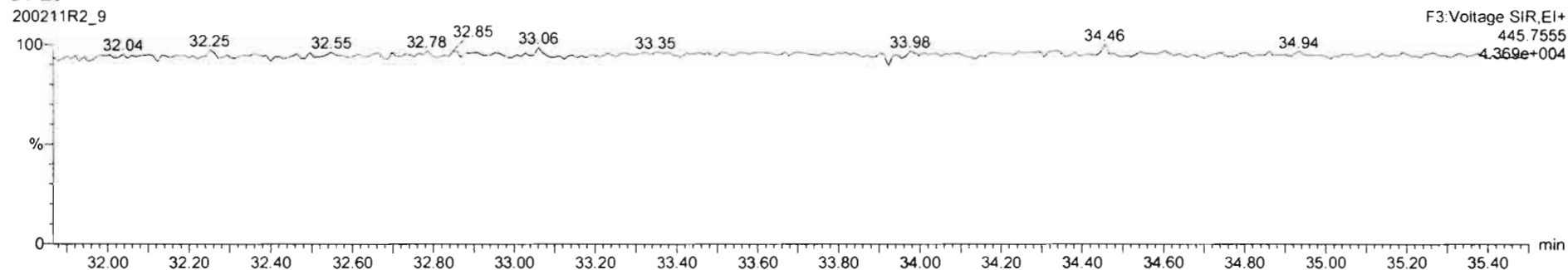
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13C-1,2,3,4,7,8-HxCDF

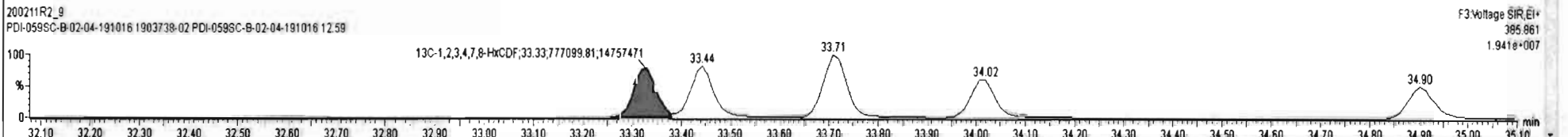
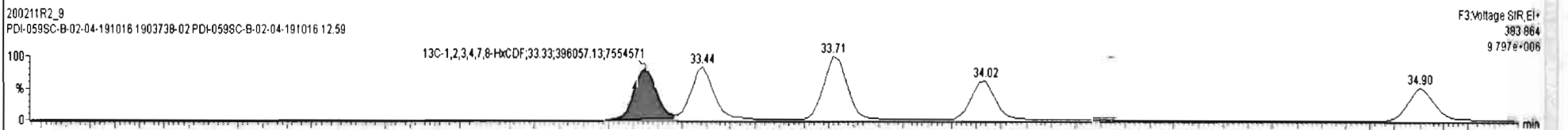
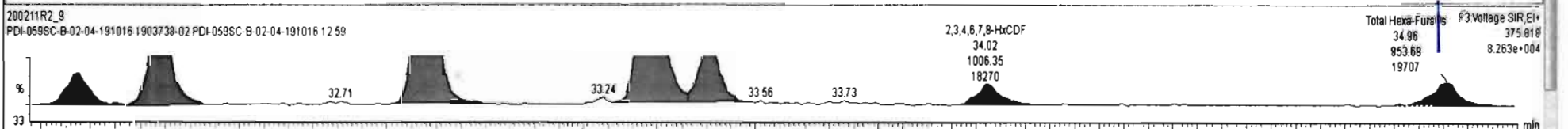
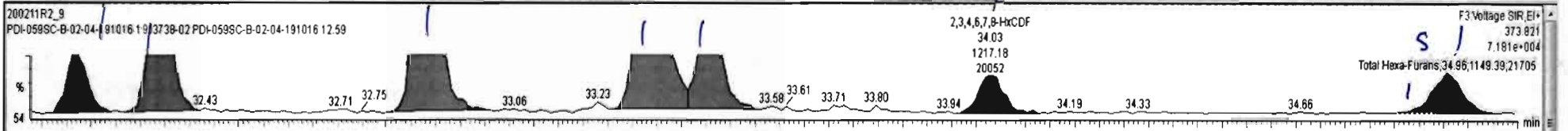


DPE3



#	Name	Resp	RA	n/y	R/F	w/Vol	Pred RT	RT	Pred R	R/R	R/R Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.034	29.27		0.000		NO	7.145		0.0782	7.259
46	Total Hexa-Furans				0.8982	10.034	33.56		0.000		NO	12.20		0.0693	12.20
47	Total Hepta-Furans				0.8511	10.034	37.83		0.000		NO	26.35		0.195	26.35
48	PFK1														
49	PFK2														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.56	32.17	1.630e3	1.465e3	1.240	1.11	NO	0.62171	0.62171
2	Total Hexa-Furans	33.56	32.34	4.479e3	4.098e3	1.240	1.09	NO	1.7231	1.7231
3	Total Hexa-Furans	33.56	32.88	9.786e3	8.198e3	1.240	1.19	NO	3.6128	3.6128
4	1,2,3,4,7,8-HxCDF	33.33	33.34	1.150e4	9.552e3	1.240	1.20	NO	4.1486	4.1486
5	1,2,3,6,7,8-HxCDF	33.45	33.48	3.123e3	2.478e3	1.240	1.26	NO	1.0246	1.0246
6	2,3,4,6,7,8-HxCDF	34.05	34.03	1.217e3	1.008e3	1.240	1.21	NO	0.48725	0.48725
7	1,2,3,7,8-HxCDF	34.90	34.94	3.303e2	3.120e2	1.240	1.06	NO	0.15913	0.15913
8	Total Hexa-Furans	33.56	34.96	1.149e3	9.537e2	1.240	1.21	NO	0.42249	0.42249

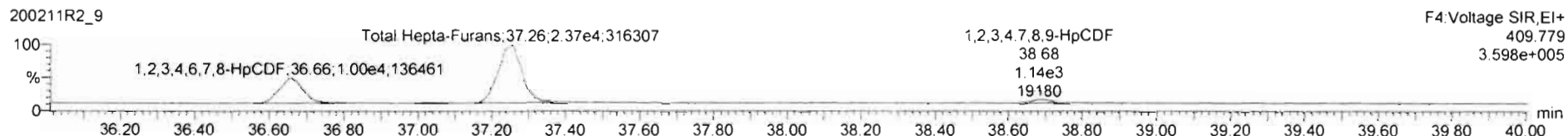
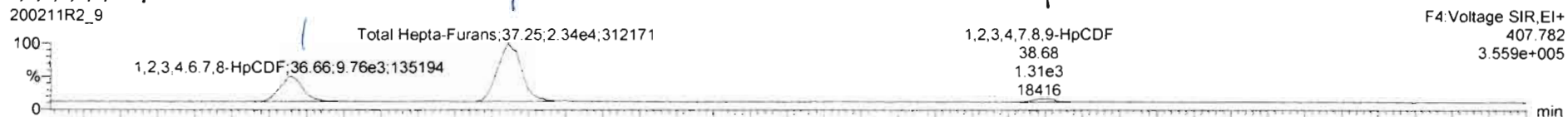


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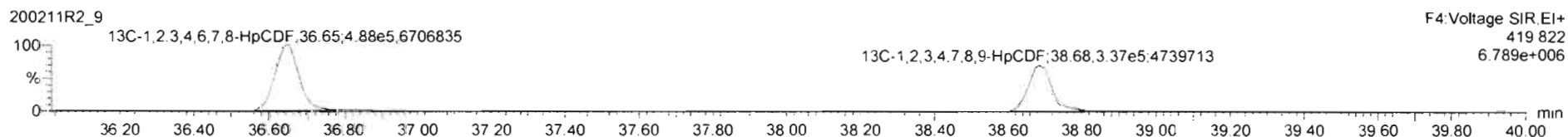
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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

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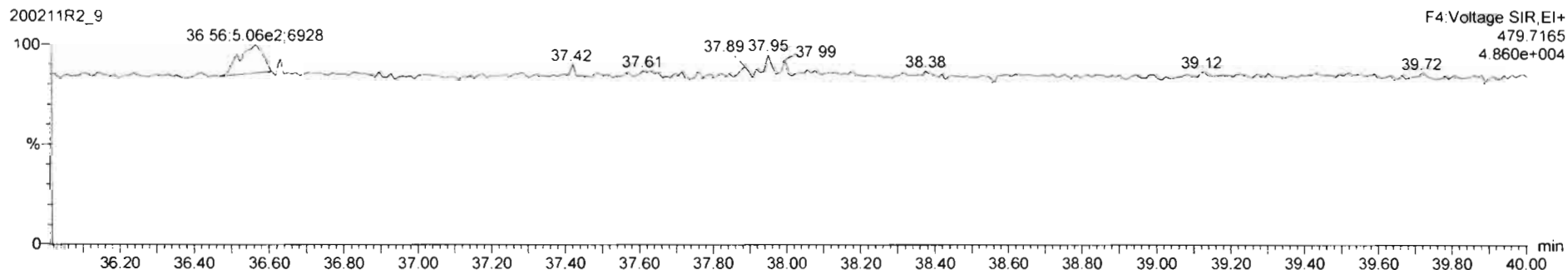
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13C-1,2,3,4,6,7,8-HpCDF



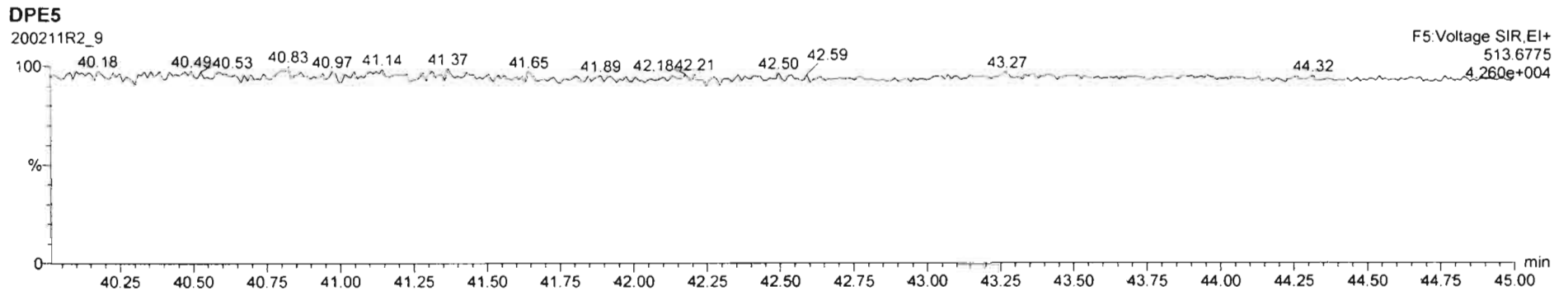
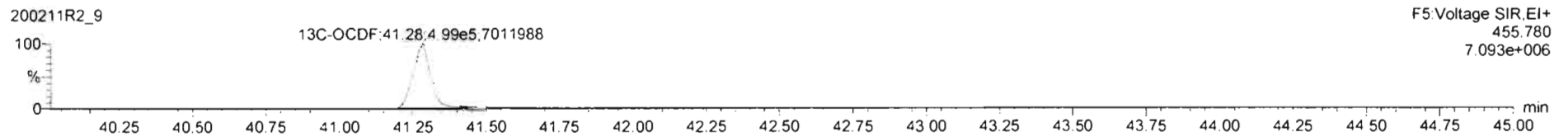
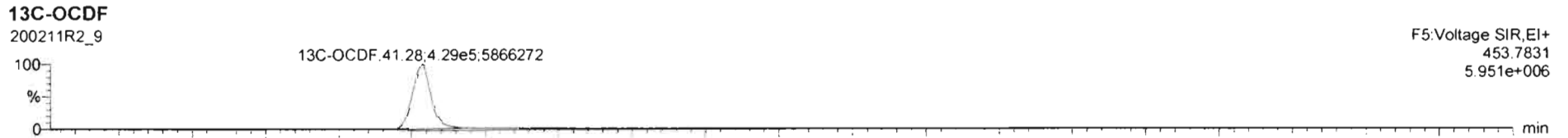
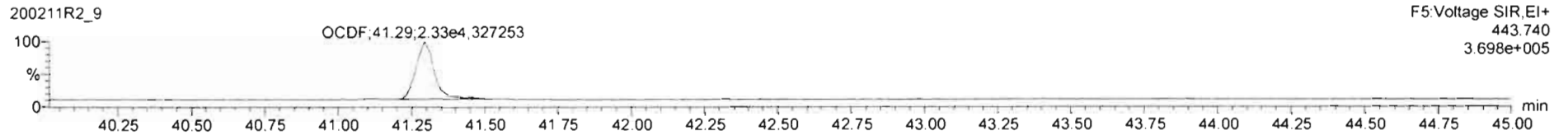
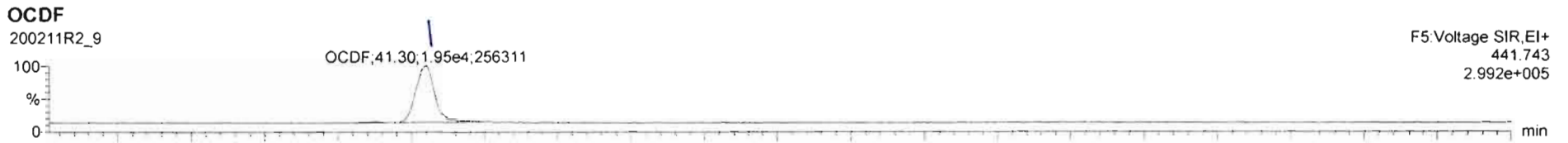
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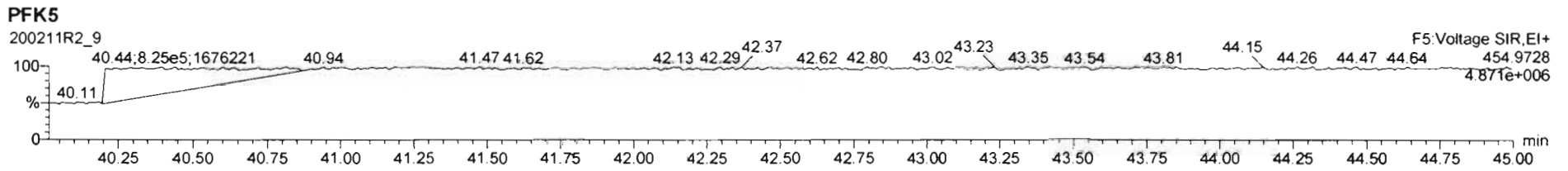
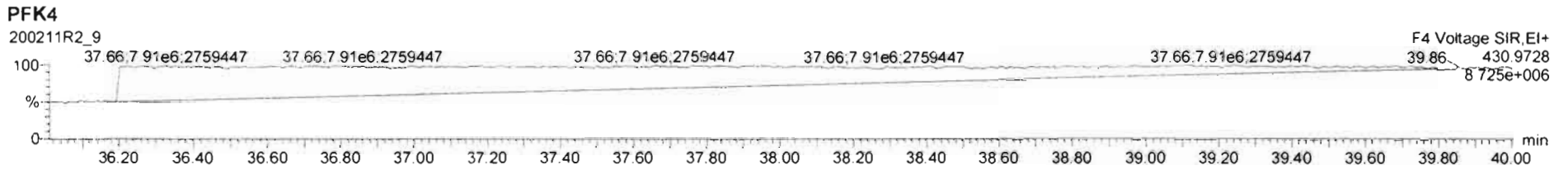
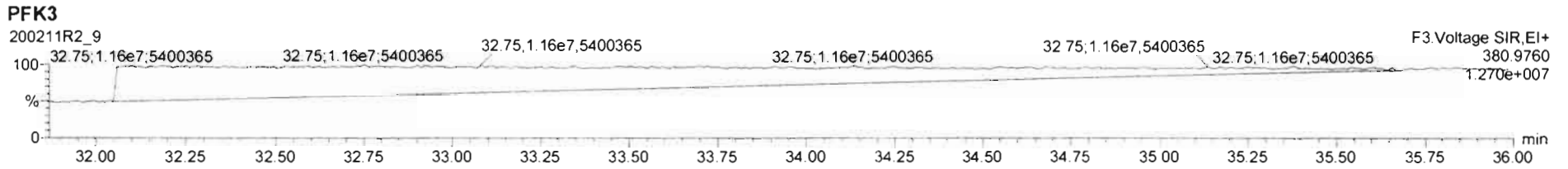
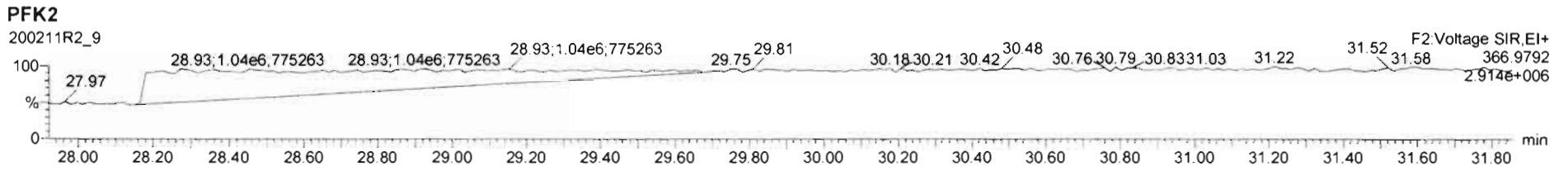
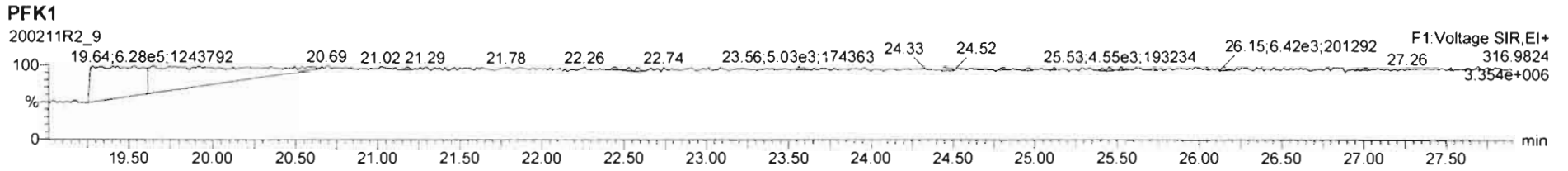


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July 03-11-2020

C-103/11/2020

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Name: 200211R2_10, Date: 11-Feb-2020, Time: 23:02:11, ID: 1903738-03 PDI-059SC-B-04-06-191016 13.87, Description: PDI-059SC-B-04-06-191016

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD				0.988	10.038	25.80			1.00	NO			0.0531	
2	2 1,2,3,7,8-PeCDD				0.972	10.038	30.83			1.00	NO			0.0623	
3	3 1,2,3,4,7,8-HxCDD				1.07	10.038	34.19			1.00	NO			0.0565	
4	4 1,2,3,6,7,8-HxCDD				0.921	10.038	34.28			1.00	NO			0.0579	
5	5 1,2,3,7,8,9-HxCDD				0.918	10.038	34.59			1.00	NO			0.0646	
6	6 1,2,3,4,6,7,8-HpCDD	2264.620	1.118	NO	0.923	10.038	38.07	38.07	1.00	1.00	NO	0.4189		0.128	0.4189
7	7 OCDD	16149.703	0.845	NO	0.975	10.038	41.08	41.09	1.00	1.00	NO	3.725		0.0854	3.725
8	8 2,3,7,8-TCDF				0.802	10.038	24.86			1.00	NO			0.0403	
9	9 1,2,3,7,8-PeCDF				0.907	10.038	29.53			1.00	NO			0.0322	
10	10 2,3,4,7,8-PeCDF				0.952	10.038	30.53			1.00	NO			0.0293	
11	11 1,2,3,4,7,8-HxCDF				0.862	10.038	33.32			1.00	NO			0.0346	
12	12 1,2,3,6,7,8-HxCDF				0.841	10.038	33.44			1.00	NO			0.0350	
13	13 2,3,4,6,7,8-HxCDF				0.898	10.038	34.03			1.00	NO			0.0372	
14	14 1,2,3,7,8,9-HxCDF	547.916	0.905	YES	0.858	10.038	34.89	34.91	1.00	1.00	NO	0.08946		0.0486	0.07675
15	15 1,2,3,4,6,7,8-HpCDF				0.851	10.038	36.68			1.00	NO			0.0850	
16	16 1,2,3,4,7,8,9-HpCDF				0.980	10.038	38.67			1.00	NO			0.0943	
17	17 OCDF				0.806	10.038	41.26			1.00	NO			0.0846	
18	18 13C-2,3,7,8-TCDD	1975829.0...	0.803	NO	1.20	10.038	25.75	25.76	1.03	1.03	NO	183.6	92.1	0.157	
19	19 13C-1,2,3,7,8-PeCDD	1426006.4...	0.632	NO	0.967	10.038	30.51	30.80	1.22	1.23	NO	164.3	82.4	0.153	
20	20 13C-1,2,3,4,7,8-HxCDD	1171722.9...	1.272	NO	0.874	10.038	34.17	34.18	1.01	1.01	NO	161.3	80.9	0.273	
21	21 13C-1,2,3,6,7,8-HxCDD	1413510.6...	1.270	NO	1.05	10.038	34.27	34.28	1.02	1.02	NO	162.6	81.6	0.229	
22	22 13C-1,2,3,7,8,9-HxCDD	1327972.0...	1.277	NO	0.974	10.038	34.58	34.55	1.03	1.03	NO	163.9	82.3	0.245	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1166943.0...	1.053	NO	0.747	10.038	38.15	38.06	1.13	1.13	NO	187.9	94.3	0.342	
24	24 13C-OCDD	1772689.6...	0.893	NO	0.707	10.038	41.05	41.08	1.22	1.22	NO	301.8	75.7	0.320	
25	25 13C-2,3,7,8-TCDF	2837637.6...	0.783	NO	1.07	10.038	24.93	24.84	0.99	0.99	NO	175.0	87.8	0.245	
26	26 13C-1,2,3,7,8-PeCDF	2329647.6...	1.604	NO	1.00	10.038	29.27	29.51	1.17	1.18	NO	152.8	76.7	0.268	
27	27 13C-2,3,4,7,8-PeCDF	2227582.1...	1.616	NO	0.962	10.038	30.50	30.50	1.21	1.21	NO	152.2	76.4	0.280	
28	28 13C-1,2,3,4,7,8-HxCDF	1555443.5...	0.514	NO	1.05	10.038	33.30	33.32	0.99	0.99	NO	178.3	89.5	0.345	
29	29 13C-1,2,3,6,7,8-HxCDF	1733057.1...	0.514	NO	1.19	10.038	33.40	33.43	0.99	0.99	NO	175.2	87.9	0.304	
30	30 13C-2,3,4,6,7,8-HxCDF	1571017.5...	0.509	NO	1.07	10.038	34.01	34.00	1.01	1.01	NO	177.2	89.0	0.339	
31	31 13C-1,2,3,7,8,9-HxCDF	1422697.4...	0.515	NO	0.922	10.038	34.91	34.89	1.04	1.04	NO	185.5	93.1	0.392	

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-10.qld

Last Altered: Tuesday, March 10, 2020 14:14:10 Pacific Daylight Time

Printed: Tuesday, March 10, 2020 14:20:00 Pacific Daylight Time

Name: 200211R2_10, Date: 11-Feb-2020, Time: 23:02:11, ID: 1903738-03 PDI-059SC-B-04-06-191016 13.87, Description: PDI-059SC-B-04-06-191016

	# Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1147099.0...	0.451	NO	0.767	10.038	36.67	36.64	1.09	1.09	NO	179.9	90.3	0.345	
33	33 13C-1,2,3,4,7,8,9-HpCDF	815592.766	0.433	NO	0.552	10.038	38.69	38.67	1.15	1.15	NO	177.6	89.1	0.480	
34	34 13C-OCDF	2078276.8...	0.885	NO	0.789	10.038	41.28	41.26	1.23	1.22	NO	316.7	79.5	0.262	
35	35 37Cl-2,3,7,8-TCDD	790818.938			1.18	10.038	25.78	25.78	1.03	1.03	NO	74.86	93.9	0.0432	
36	36 13C-1,2,3,4-TCDD	1789509.4...	0.805	NO	1.00	10.038	25.11	25.11	1.00	1.00	NO	199.3	100	0.188	
37	37 13C-1,2,3,4-TCDF	3033075.0...	0.800	NO	1.00	10.038	23.37	23.37	1.00	1.00	NO	199.3	100	0.261	
38	38 13C-1,2,3,4,6,9-HxCDF	1656388.6...	0.510	NO	1.00	10.038	33.71	33.70	1.00	1.00	NO	199.3	100	0.362	
39	39 Total Tetra-Dioxins				0.988	10.038	24.62		0.00		NO	0.3326		0.0277	0.3326
40	40 Total Penta-Dioxins				0.972	10.038	29.96		0.00		NO	0.0000		0.0335	0.1221
41	41 Total Hexa-Dioxins				0.921	10.038	33.63		0.00		NO	0.5189		0.0624	0.5189
42	42 Total Hepta-Dioxins				0.923	10.038	37.64		0.00		NO	1.172		0.128	1.172
43	43 Total Tetra-Furans				0.802	10.038	23.61		0.00		NO	0.0000		0.0190	0.08517
44	44 1st Func. Penta-Furans				0.907	10.038	27.09		0.00		NO			0.0124	
45	45 Total Penta-Furans				0.907	10.038	29.27		0.00		NO			0.0131	
46	46 Total Hexa-Furans				0.898	10.038	33.56		0.00		NO	0.0000		0.0211	0.07675
47	47 Total Hepta-Furans				0.851	10.038	37.83		0.00		NO			0.0473	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-10.qld

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Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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Tetra-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	3.26e3	1.98e6	0.699	NO	24.62	23.55	0.3326	0.3326

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	0.00e0	1.43e6	0.739	YES	29.96	29.05	0.0000	0.1221

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	3.13e3	0.00e0	1.242	NO	33.63	32.71	0.5189	0.5189

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	2.26e3	1.17e6	1.118	NO	38.07	38.07	0.4189	0.4189
2	42 Total Hepta-Dioxins	4.07e3	1.17e6	1.031	NO	37.64	37.04	0.7532	0.7532

Tetra-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	0.00e0	2.84e6	0.918	YES	23.61	20.72	0.0000	0.08517

Penta-Furans function 1

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-10.qld

Last Altered: Tuesday, March 10, 2020 14:14:10 Pacific Daylight Time

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Name: 200211R2_10, Date: 11-Feb-2020, Time: 23:02:11, ID: 1903738-03 PDI-059SC-B-04-06-191016 13.87, Description: PDI-059SC-B-04-06-191016

Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	14 1,2,3,7,8,9-HxCDF	5.48e2	1.42e6	0.905	YES	34.89	34.91	0.0000	0.07675

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1									

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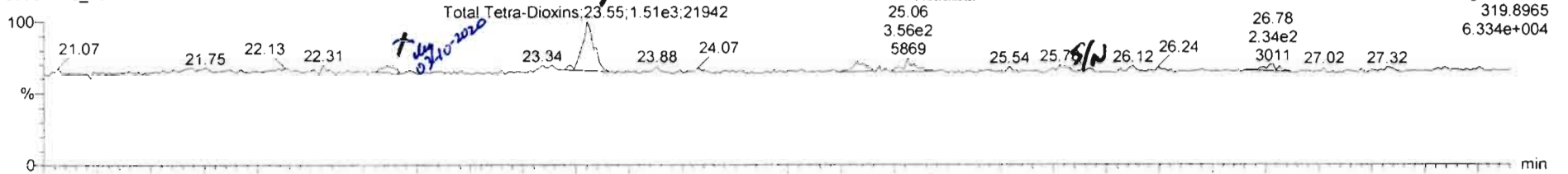
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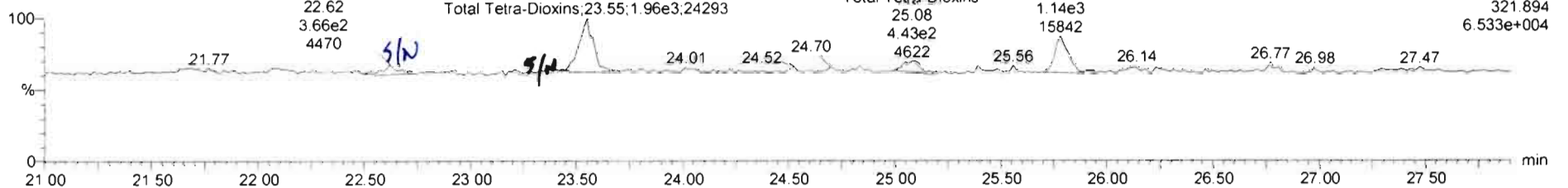
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2,3,7,8-TCDD

200211R2_10

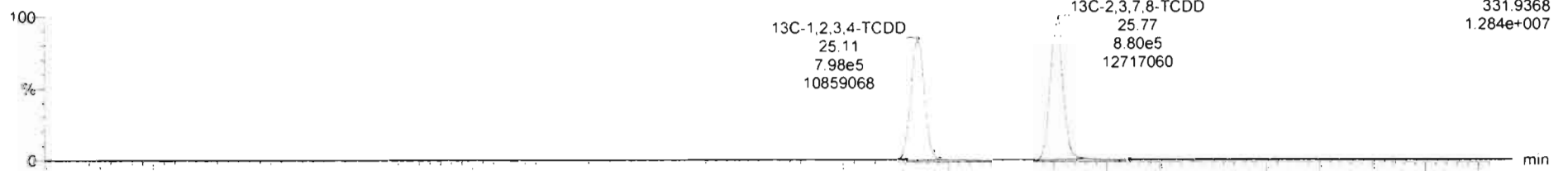


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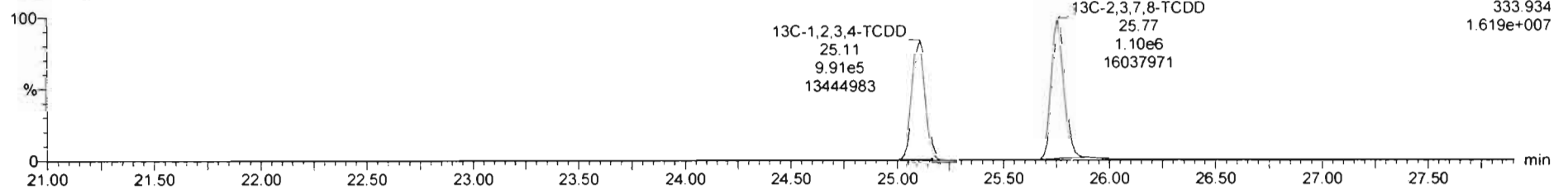


13C-2,3,7,8-TCDD

200211R2_10



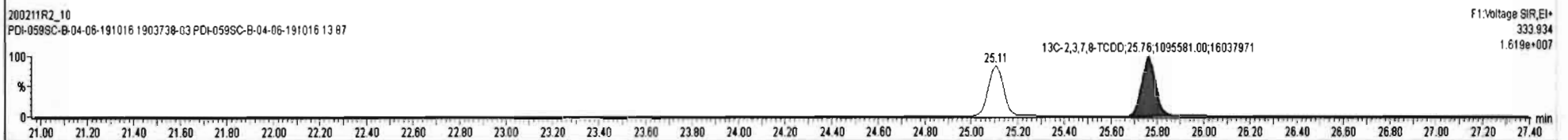
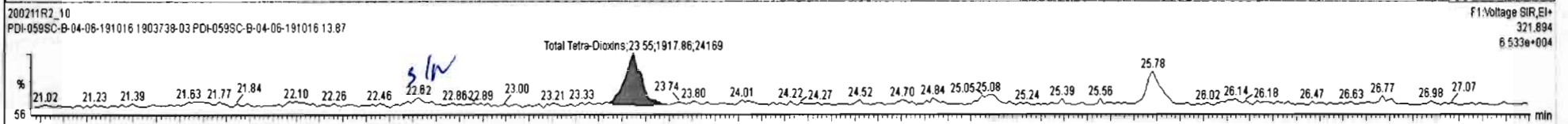
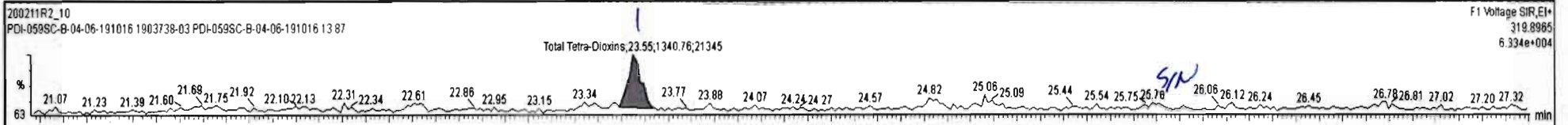
200211R2_10



200211R2_10 - 1903738-03.PDI-059SC-B-04-06-191016-13.87 - PDI-059SC-B-04-06-191016

#	Name	Resp	RA	n/y	RPF	wAve	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.038	24.62		0.000		NO	0.3326		0.0277	0.3326
40	Total Penta-Dioxins				0.9723	10.038	29.96		0.000		NO	0.06152		0.0623	0.1836
41	Total Hexa-Dioxins				0.8211	10.038	33.63		0.000		NO	0.6783		0.0624	0.6783
42	Total Hepta-Dioxins				0.8231	10.038	37.64		0.000		NO	1.172		0.126	1.172
43	Total Tetra-Furans				0.8020	10.038	23.61		0.000		NO	0.0000		0.0190	0.08517

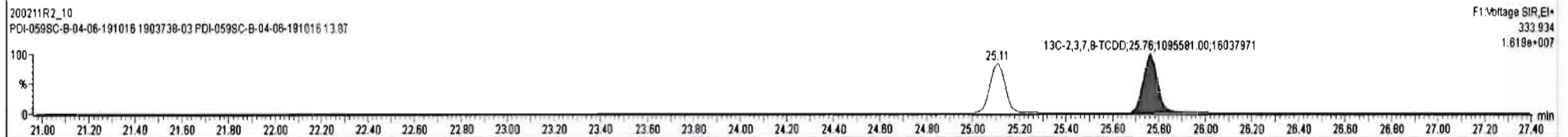
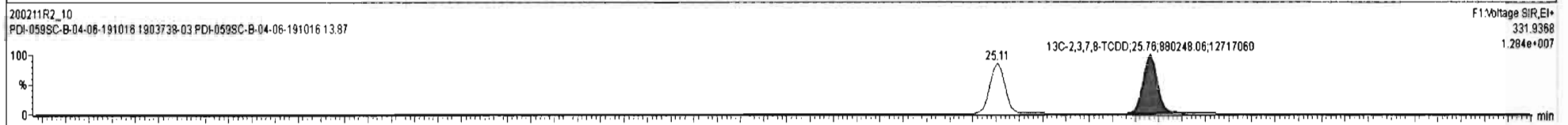
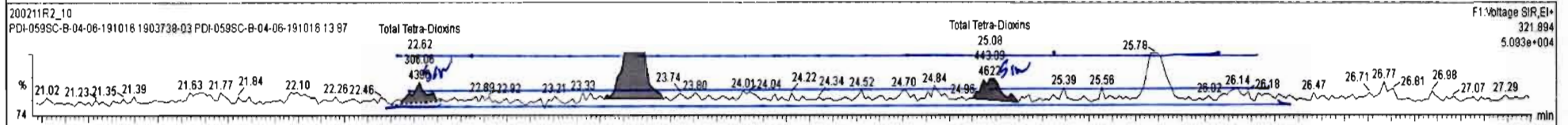
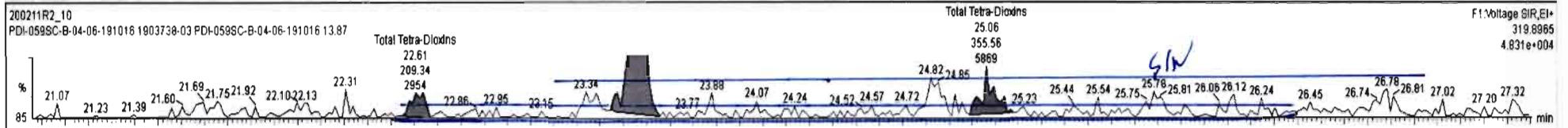
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
39	Total Tetra-Dioxins	24.62	23.55	1.341e3	1.818e3	6.770	0.70	NO	0.33268	0.33258



200211R2_10 - 1903738-03 PDI-059SC-B-04-06-191016 13.87 PDI-059SC-B-04-06-191016

#	Name	Resp	RA	n/y	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9891	10.038	24.62		0.000		NO	0.4678		0.0531	0.4880
40	Total Penta-Dioxins				0.9723	10.038	29.96		0.000		NO	0.06152		0.0623	0.1940
41	Total Hexa-Dioxins				0.9211	10.038	33.63		0.000		NO	0.6783		0.0624	0.6780
42	Total Hepta-Dioxins				0.9231	10.038	37.64		0.000		NO	1.172		0.126	1.172
43	Total Tetra-Furans				0.8020	10.038	23.61		0.000		NO	0.0000		0.0190	0.06900

#	Name	Pred RT	RT	w1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	22.61	2.093e2	3.061e2	0.770	0.88	NO	0.053000	0.052603
2	39 Total Tetra-Dioxins	24.62	23.55	1.508e3	1.857e3	0.770	0.77	NO	0.35400	0.35366
3	39 Total Tetra-Dioxins	24.62	25.06	3.556e2	4.431e2	0.770	0.90	NO	0.082000	0.081513



Dataset: Untitled

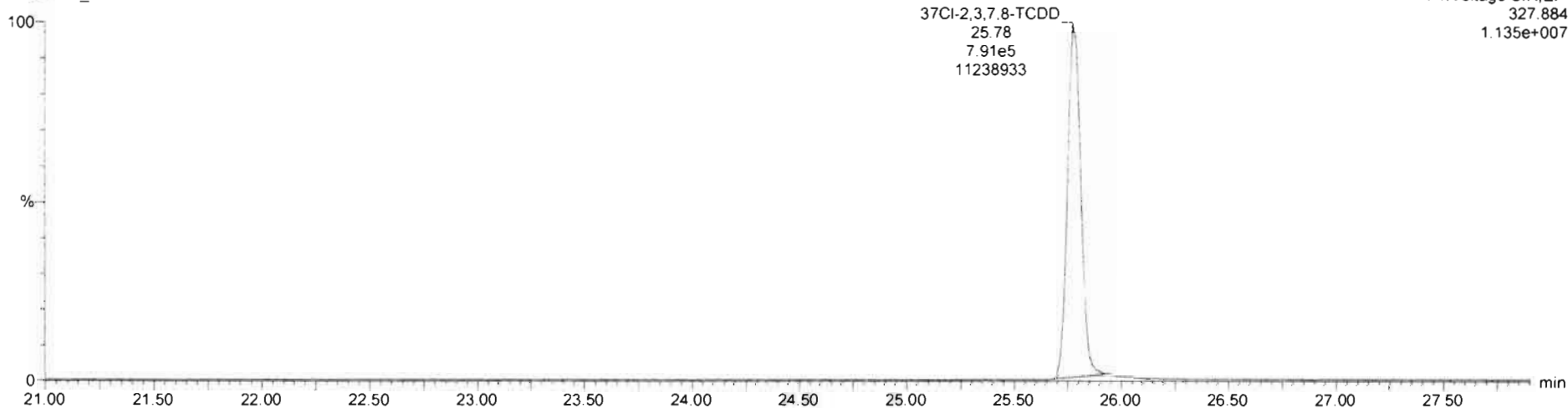
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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_10, Date: 11-Feb-2020, Time: 23:02:11, ID: 1903738-03 PDI-059SC-B-04-06-191016 13.87, Description: PDI-059SC-B-04-06-191016

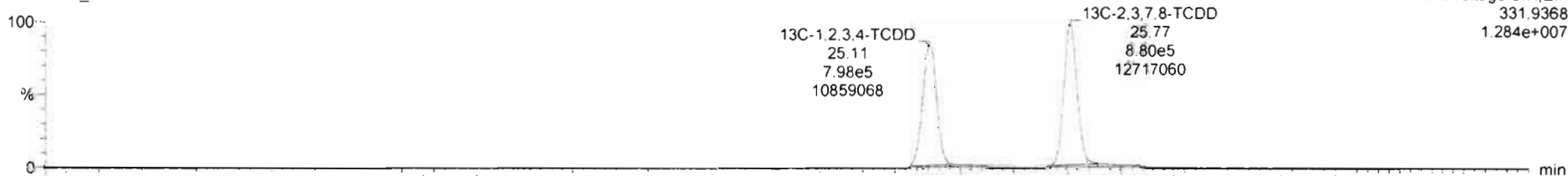
37Cl-2,3,7,8-TCDD

200211R2_10

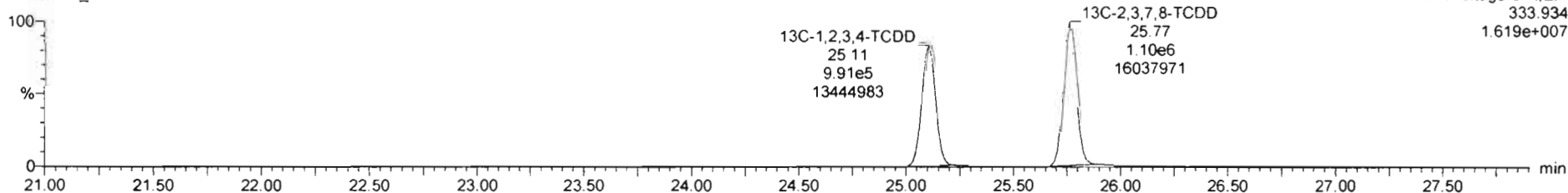


13C-1,2,3,4-TCDD

200211R2_10



200211R2_10

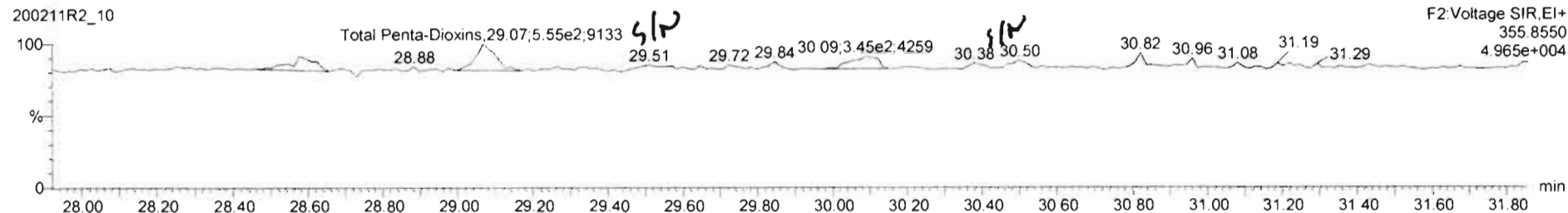
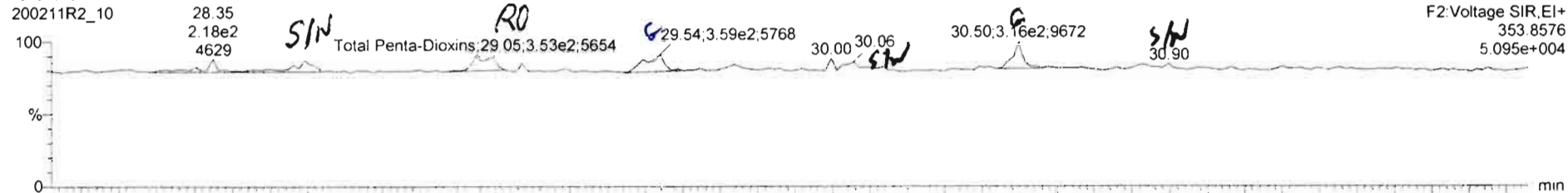


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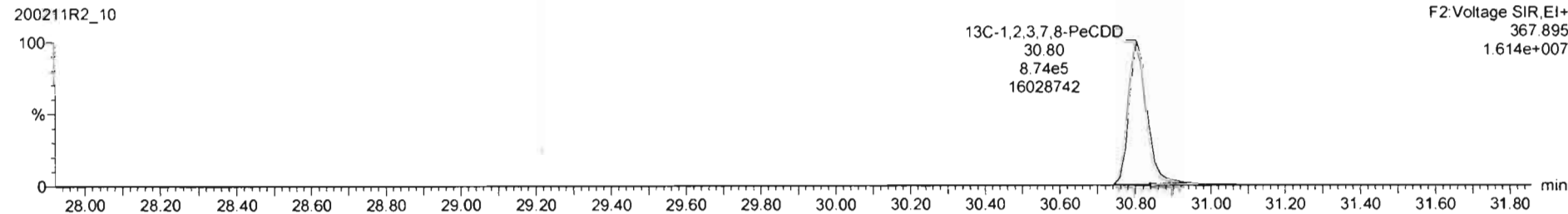
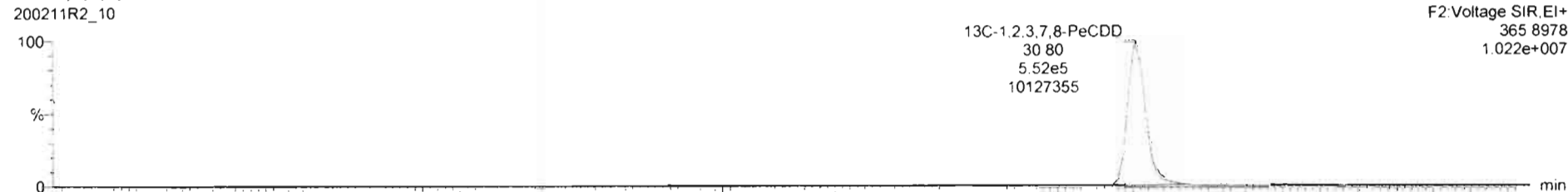
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1,2,3,7,8-PeCDD



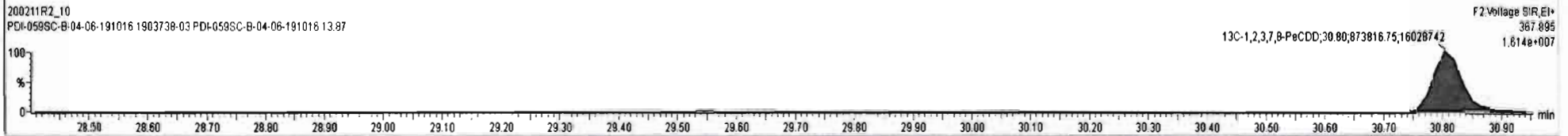
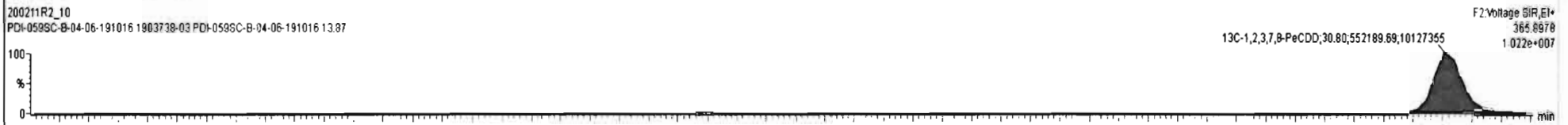
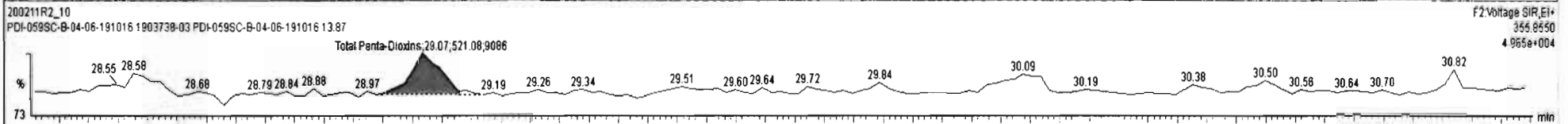
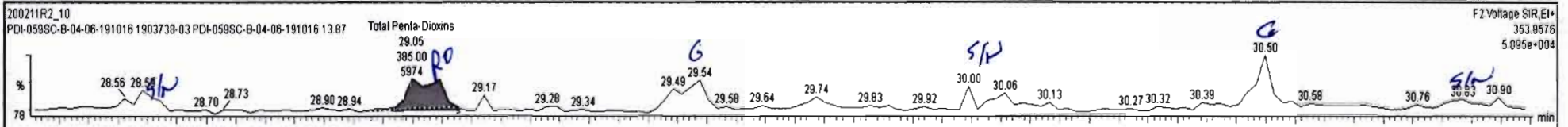
13C-1,2,3,7,8-PeCDD



200211R2_10 - 1903738-03 PDI-059SC-B-04-06-191016 13.87 - PDI-059SC-B-04-06-191016

#	Name	Resp	RA	n/y	RFF	wt/vol	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec.	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.038	24.62		0.000		NO	0.3326		0.0277	0.3326
40	Total Penta-Dioxins				0.9723	10.038	29.96		0.000		NO	0.0000		0.0395	0.1221
41	Total Hexa-Dioxins				0.9211	10.038	33.63		0.000		NO	0.6783		0.0624	0.6783
42	Total Hepta-Dioxins				0.9231	10.038	37.64		0.000		NO	1.172		0.126	1.172
43	Total Tetra-Furans				0.8020	10.038	23.61		0.000		NO	0.0000		0.0190	0.08517

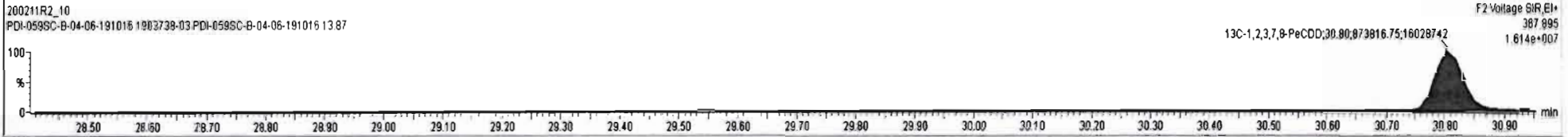
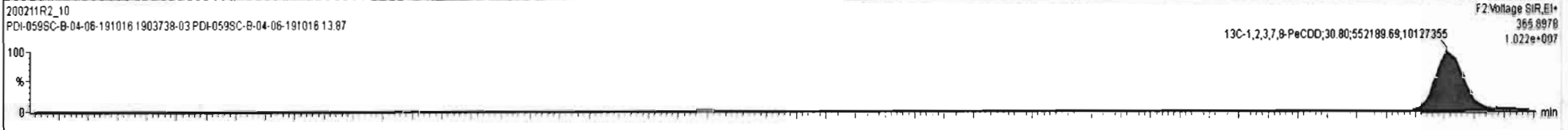
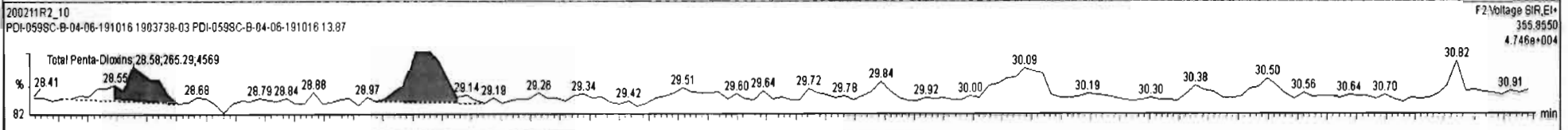
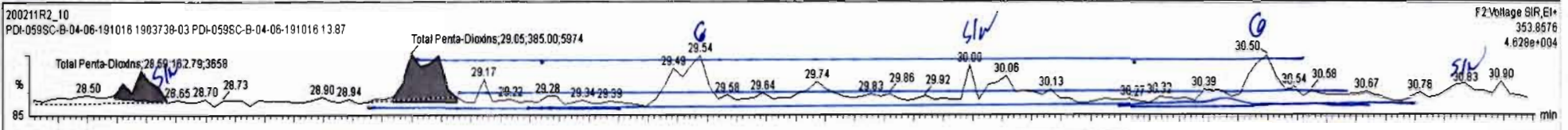
#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	29.05	3.850e2	5.211e2	0.630	0.74	YES	0.12206	0.00000



200211R2_10 - 1903738-03 PDI-059SC-B-04-06-191016 13.87 - PDI-059SC-B-04-06-191016

#	Name	Resp	RA	n/y	RRF	wtAvd	Pred_RT	RT	Pred_R..	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.038	24.52		0.000		NO	0.3326		0.0277	0.3326
40	Total Penta-Dioxins				0.9723	10.038	29.96		0.000		NO	0.06152		0.0623	0.1836
41	Total Hexa-Dioxins				0.9211	10.038	33.53		0.000		NO	0.6783		0.0624	0.6783
42	Total Hepta-Dioxins				0.9231	10.038	37.54		0.000		NO	1.172		0.128	1.172
43	Total Tetra-Furans				0.8020	10.038	23.61		0.000		NO	0.0000		0.0190	0.06517

#	Name	Pred_RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.96	28.59	1.629e2	2.653e2	0.630	0.61	NO	0.061520	0.061520
2	40 Total Penta-Dioxins	29.96	29.05	3.850e2	5.211e2	0.630	0.74	YES	0.12208	0.00000



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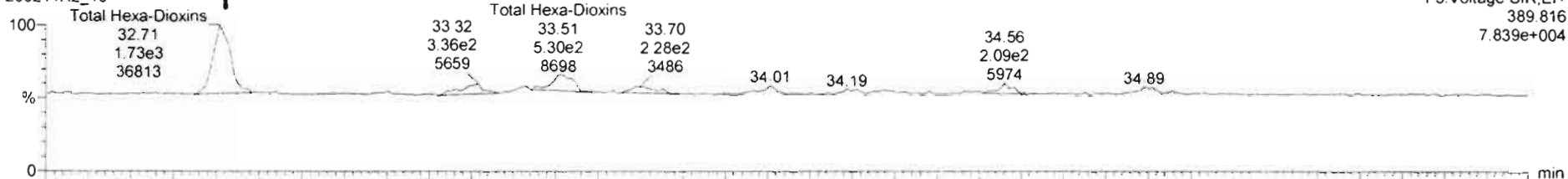
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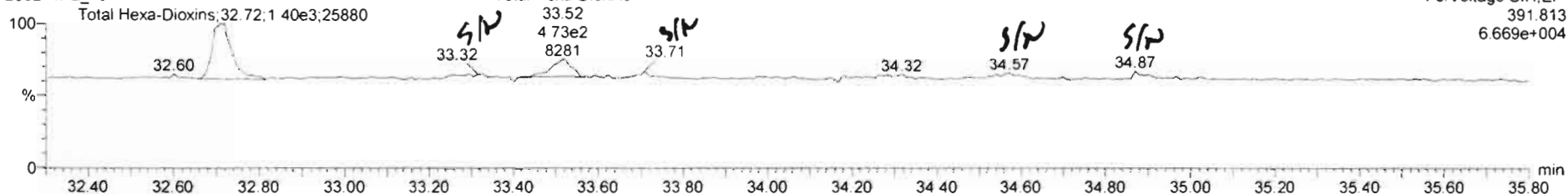
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1,2,3,4,7,8-HxCDD

200211R2_10

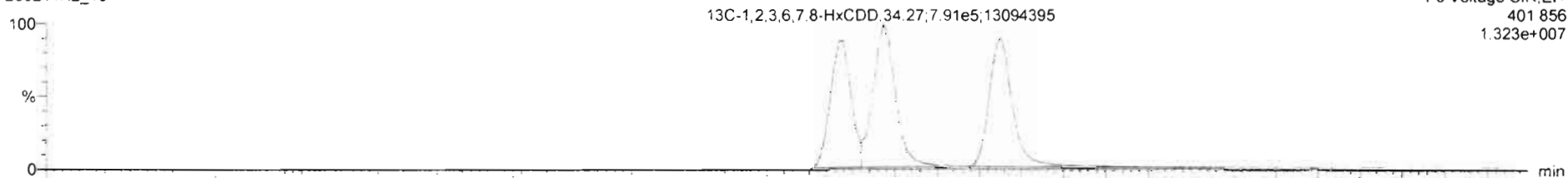


200211R2_10

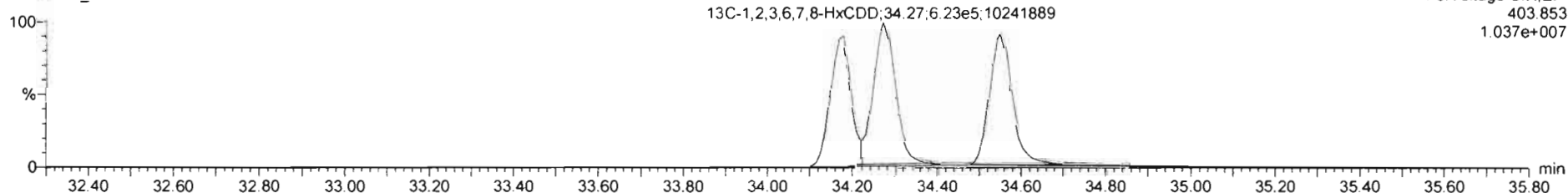


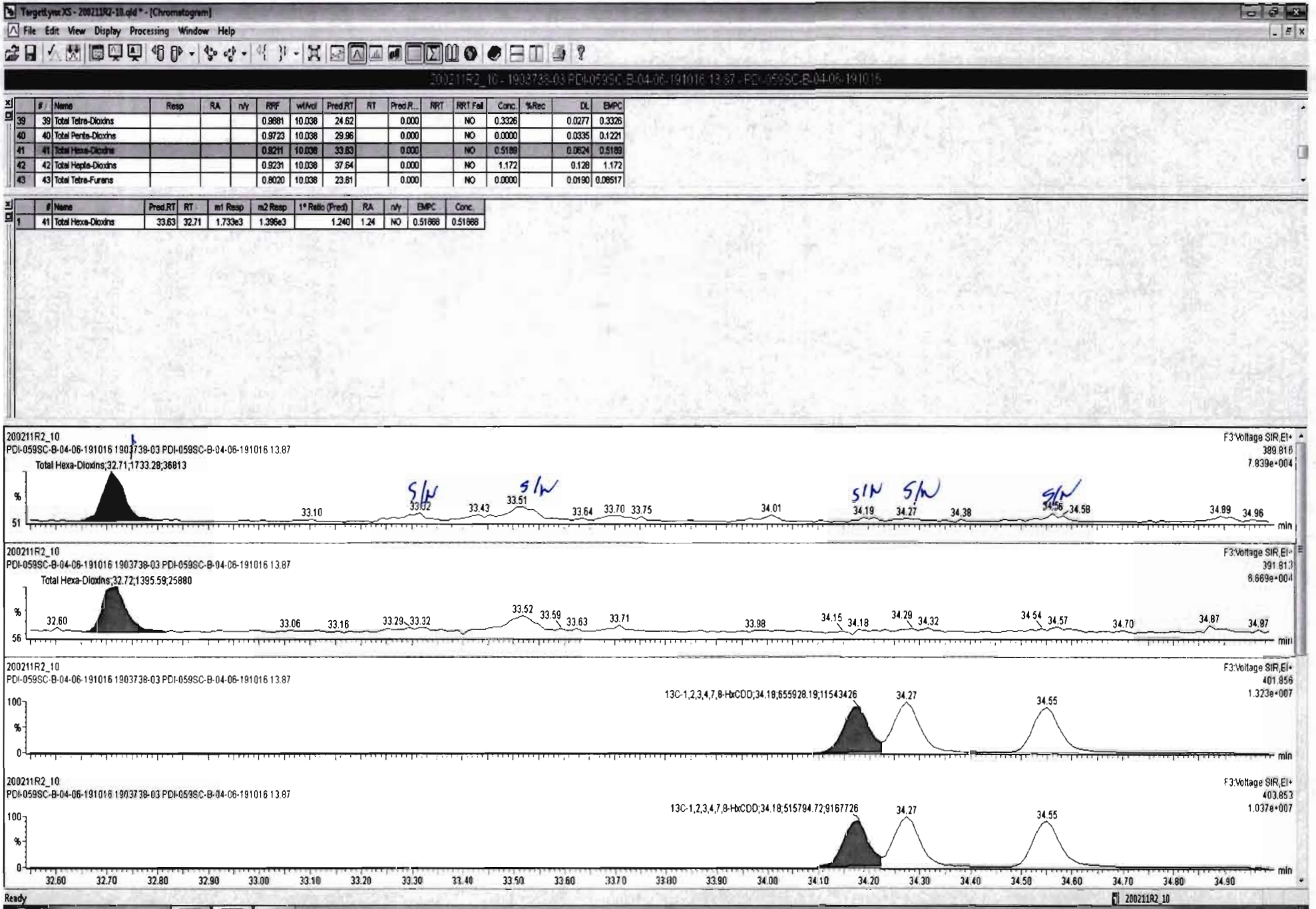
13C-1,2,3,4,7,8-HxCDD

200211R2_10



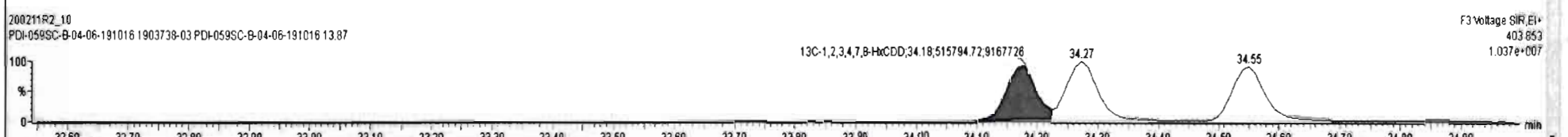
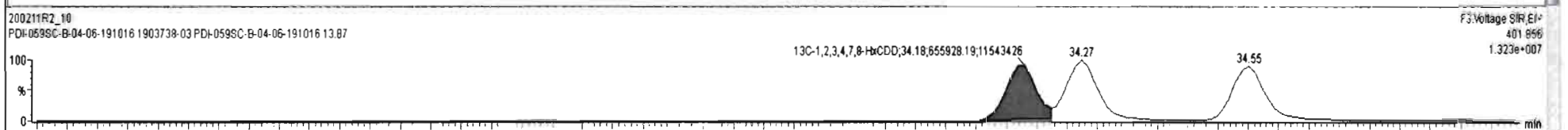
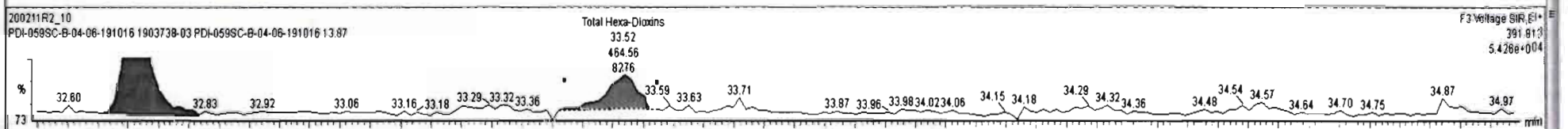
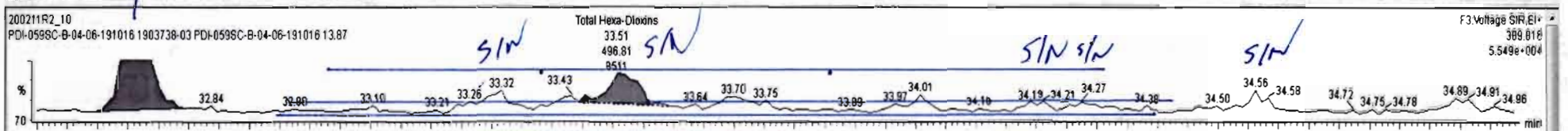
200211R2_10





#	Name	Resp	RA	n/y	RF	w/wd	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.038	24.82		0.000		NO	0.3328		0.0277	0.3328
40	Total Penta-Dioxins				0.9723	10.038	29.96		0.000		NO	0.0000		0.0335	0.1221
41	Total Hexa-Dioxins				0.9211	10.038	33.83		0.000		NO	0.5783		0.0624	0.6783
42	Total Hepta-Dioxins				0.9231	10.038	37.84		0.000		NO	1.172		0.126	1.172
43	Total Tetra-Furans				0.8020	10.038	23.81		0.000		NO	0.0000		0.0190	0.08517

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	41 Total Hexa-Dioxins	33.63	32.71	1.730e3	1.396e3	1.240	1.24	NO	0.51888	0.51888
2	41 Total Hexa-Dioxins	33.63	33.51	4.968e2	4.646e2	1.240	1.07	NO	0.15943	0.15943



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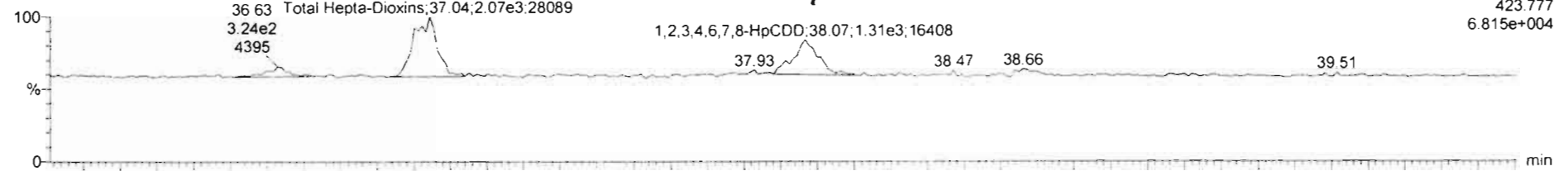
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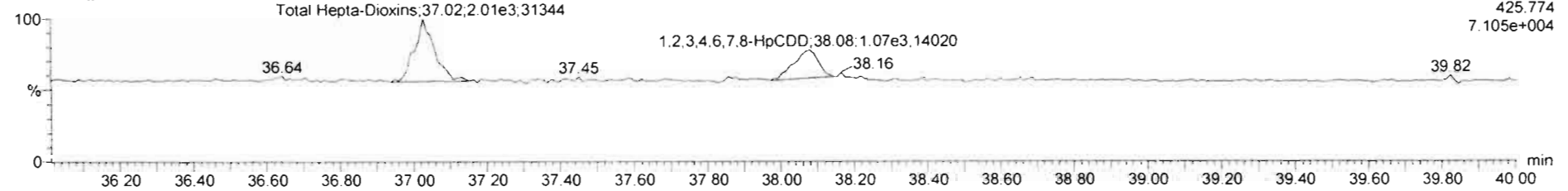
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1,2,3,4,6,7,8-HpCDD

200211R2_10

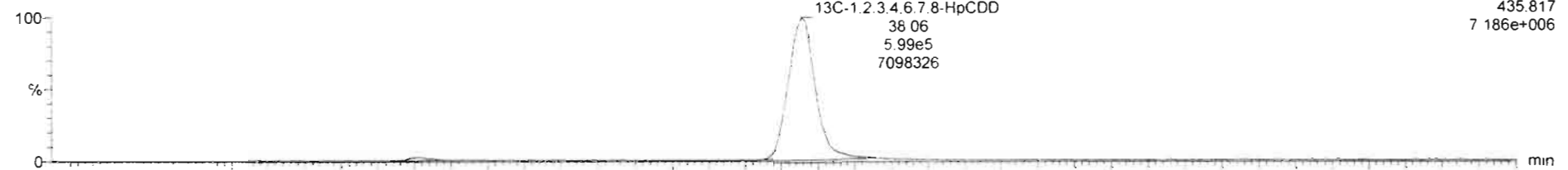


200211R2_10

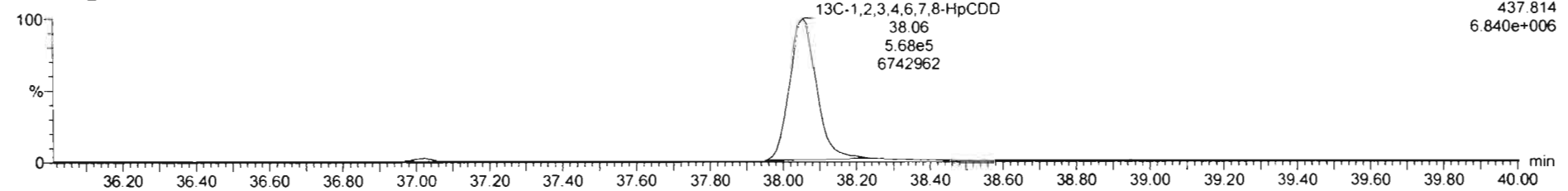


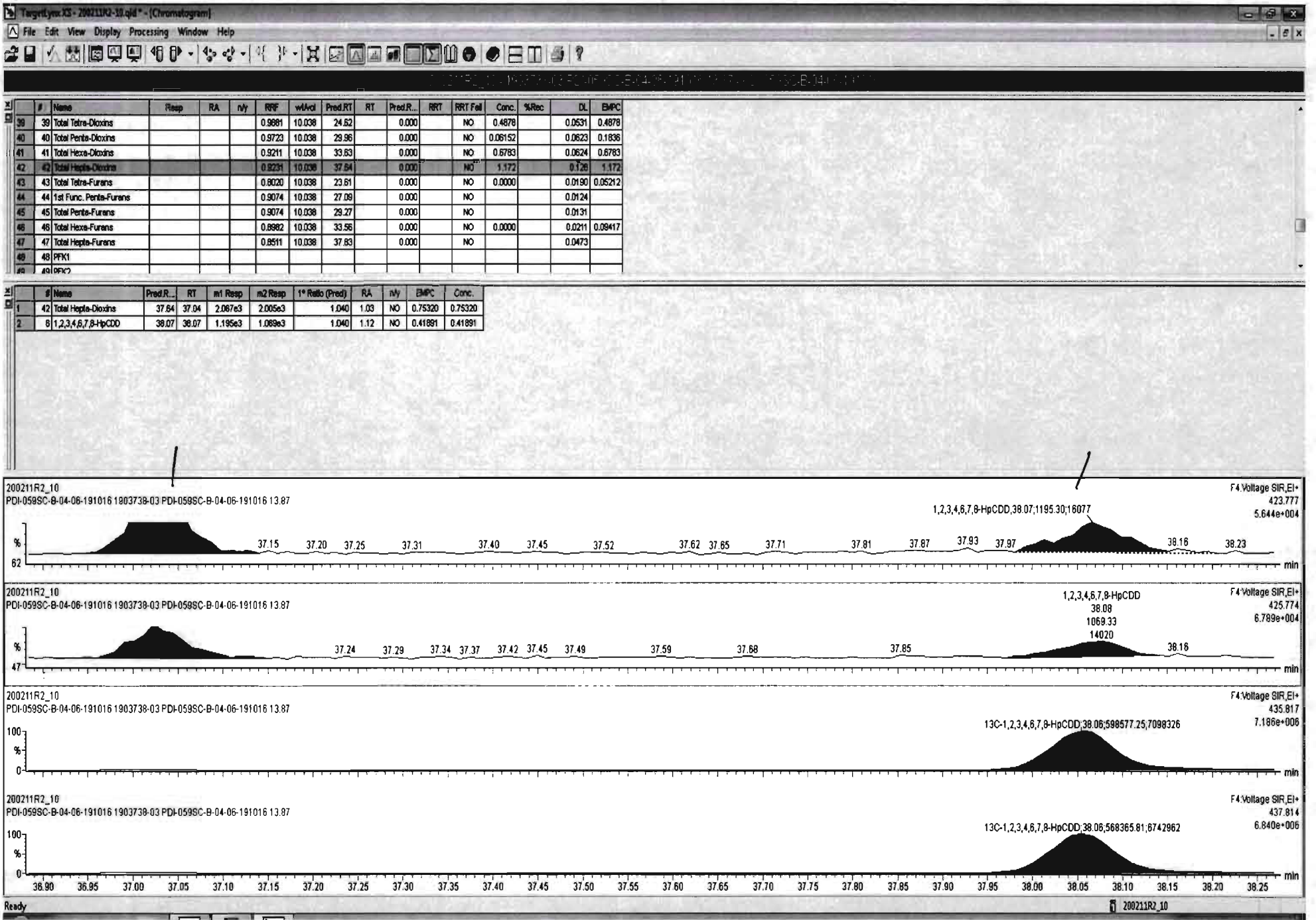
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200211R2_10



200211R2_10



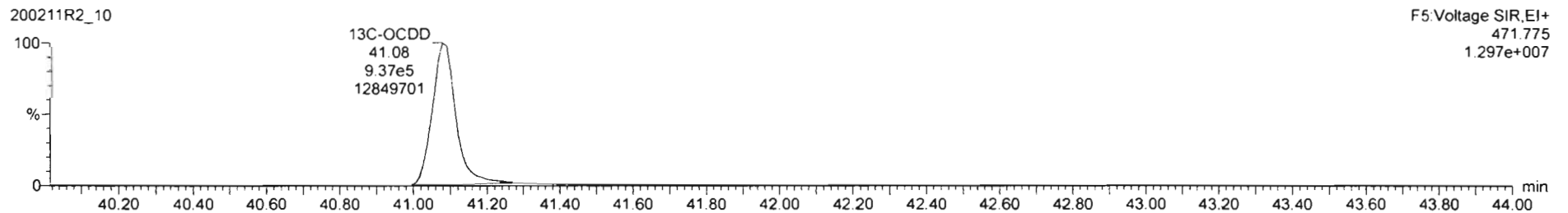
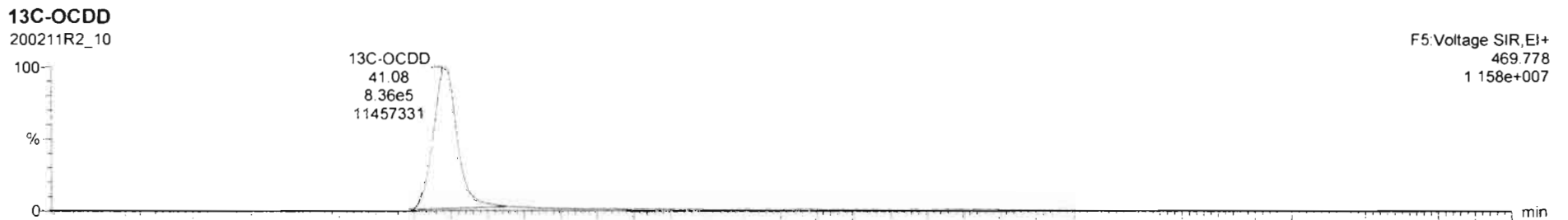
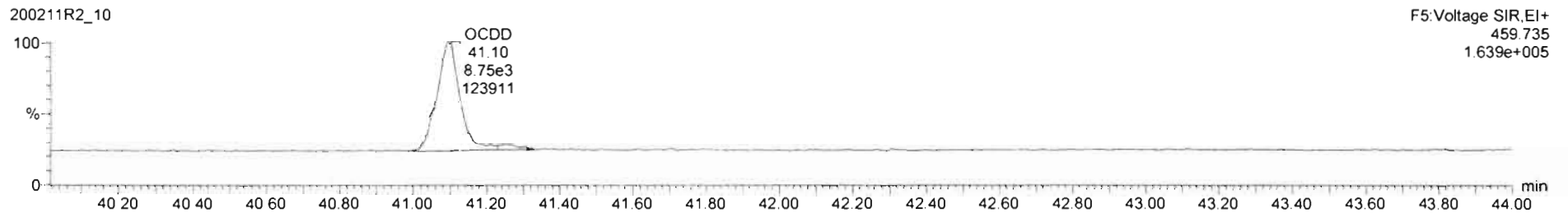
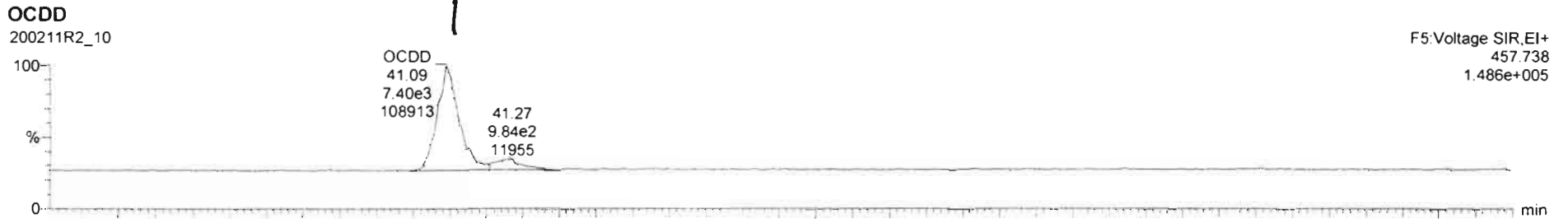


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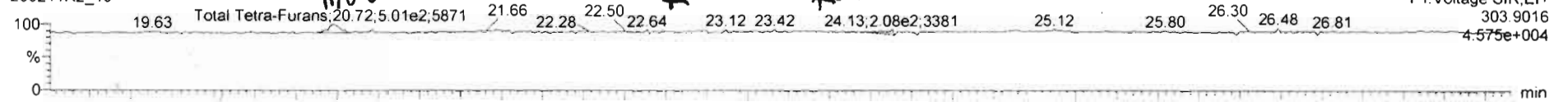
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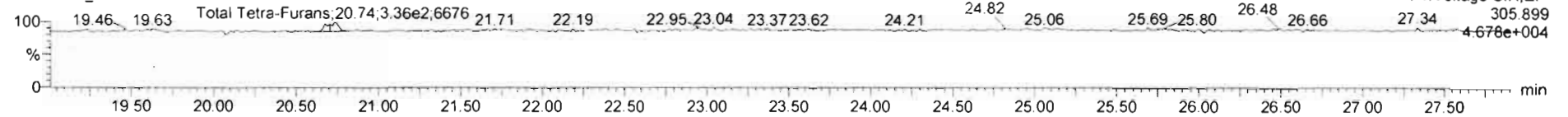
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2,3,7,8-TCDF

200211R2_10

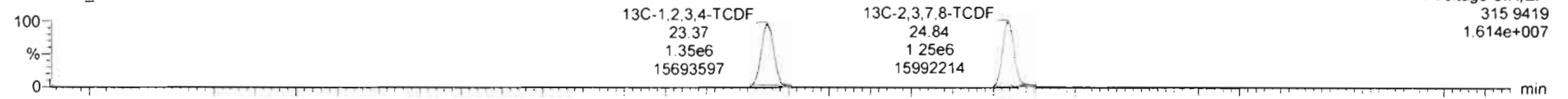


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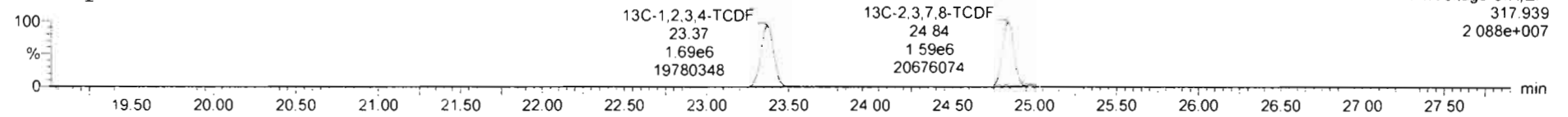


13C-2,3,7,8-TCDF

200211R2_10

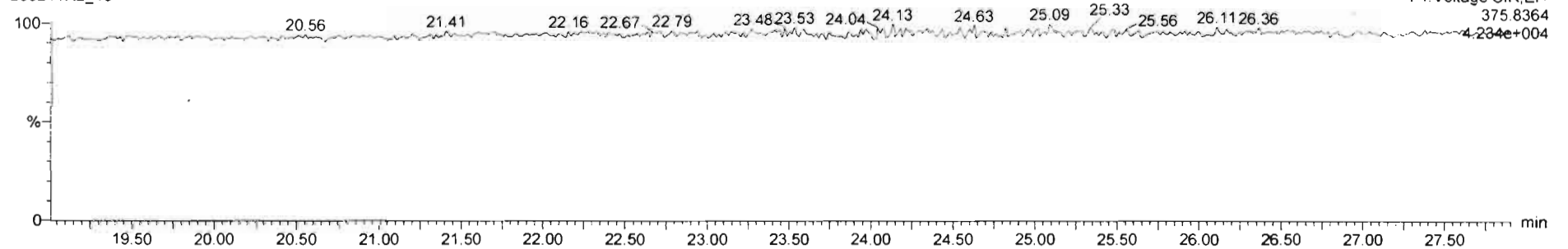


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DPE1

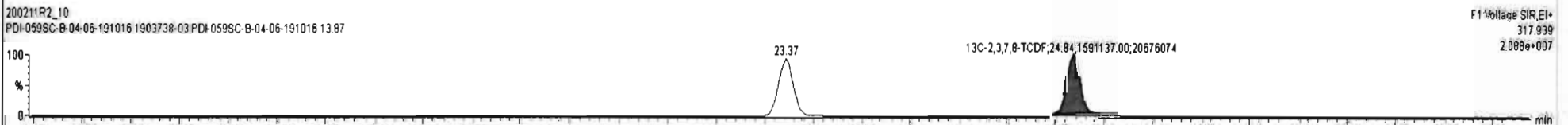
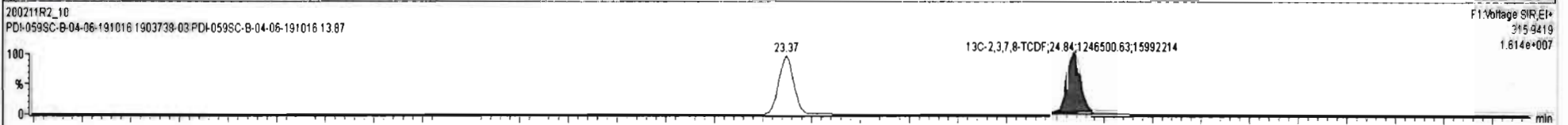
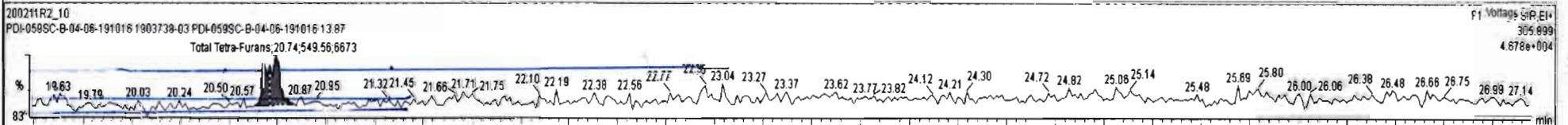
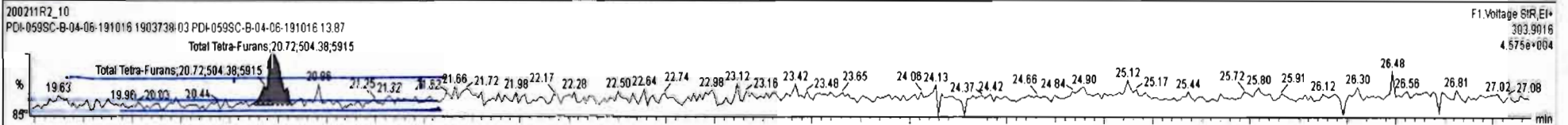
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200211R2_10 - 1903738-03 PDI-059SC-B-04-06-191016 13.87 - PDI-059SC-B-04-06-191016

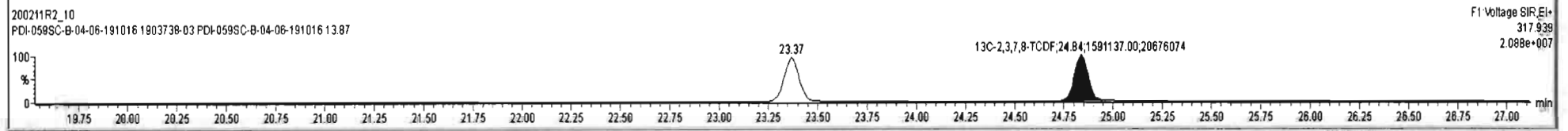
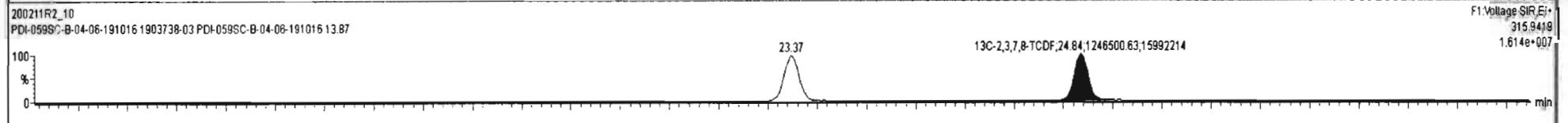
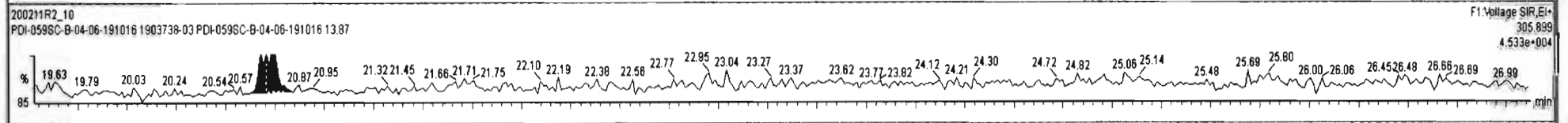
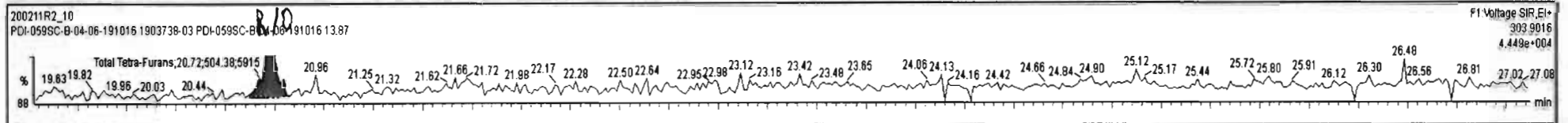
#	Name	Resp	RA	n/y	RPF	wt/Act	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9861	10.038	24.62		0.000		NO	0.3326		0.0277	0.3326
40	Total Penta-Dioxins				0.9723	10.038	29.96		0.000		NO	0.0000		0.0335	0.1221
41	Total Hexa-Dioxins				0.9211	10.038	33.63		0.000		NO	0.5189		0.0624	0.5189
42	Total Hepta-Dioxins				0.9231	10.038	37.84		0.000		NO	1.172		0.128	1.172
43	Total Tetra-Furans				0.8020	10.038	23.51		0.000		NO	0.0000		0.0190	0.08517

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.51	20.72	5.044e2	5.496e2	0.770	0.92	YES	0.085167	0.00000



#	Name	Resp	RA	n/y	RRF	wAval	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9661	10.038	24.62		0.000		NO	0.4878		0.0531	0.4878
40	Total Penta-Dioxins				0.9723	10.038	29.96		0.000		NO	0.06152		0.0623	0.1836
41	Total Hexa-Dioxins				0.9211	10.038	33.63		0.000		NO	0.6783		0.0624	0.6783
42	Total Hepta-Dioxins				0.9231	10.038	37.84		0.000		NO	1.172		0.128	1.172
43	Total Tetra-Furans				0.9020	10.038	23.61		0.000		NO	0.0000		0.0190	0.06517
44	1st Func. Penta-Furans				0.9074	10.038	27.09		0.000		NO			0.0124	
45	Total Penta-Furans				0.9074	10.038	28.27		0.000		NO			0.0131	
46	Total Hexa-Furans				0.8982	10.038	33.56		0.000		NO	0.0000		0.0211	0.09417
47	Total Hepta-Furans				0.8511	10.038	37.83		0.000		NO			0.0473	
48	PFK1														
49	PFK2														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	20.72	5.044e2	5.496e2	0.770	0.92	YES	0.065167	0.00000



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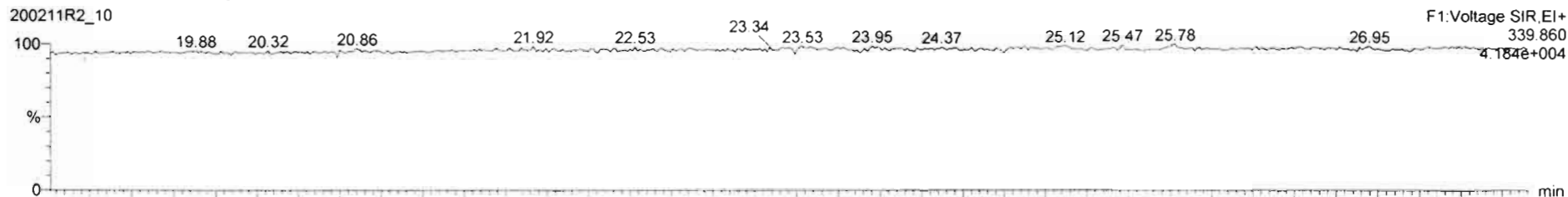
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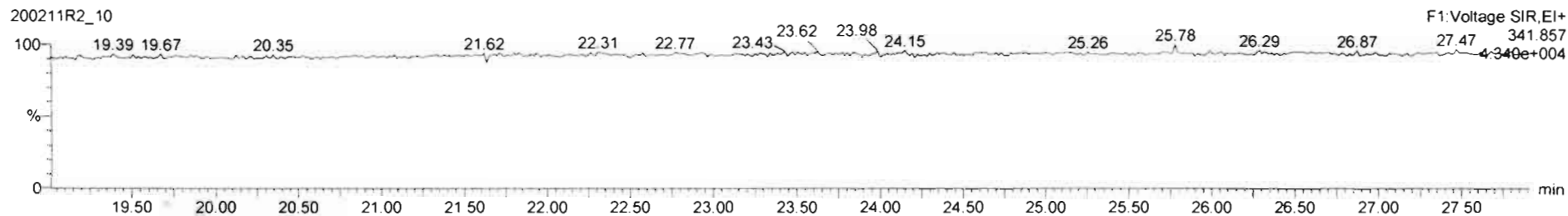
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1st Func. Penta-Furans

200211R2_10

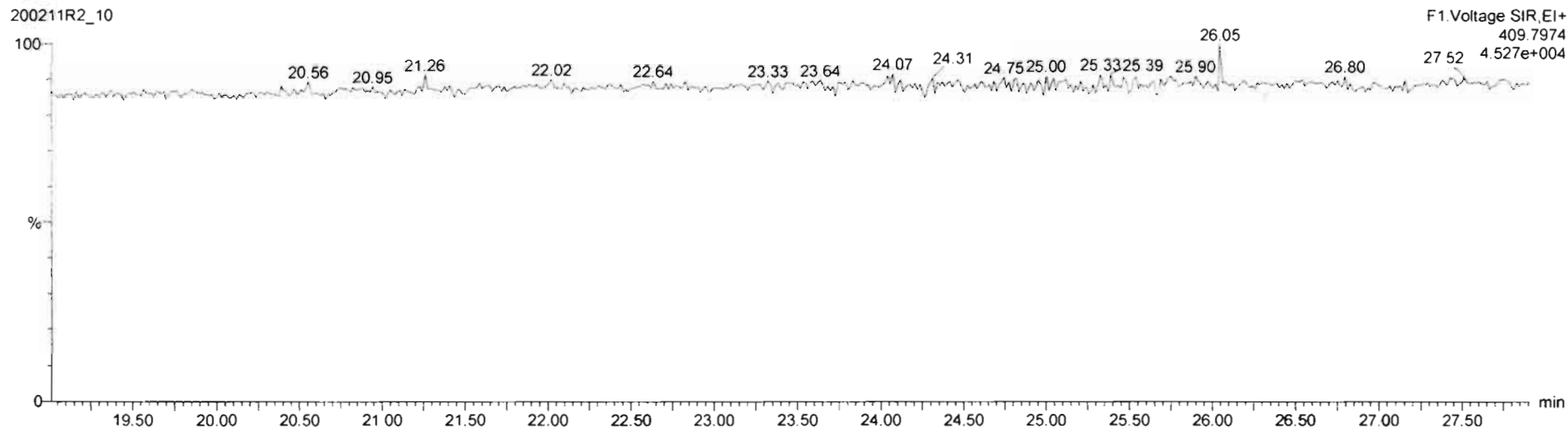


200211R2_10



DPE6

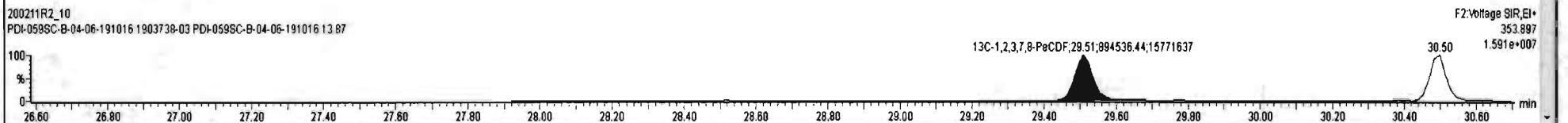
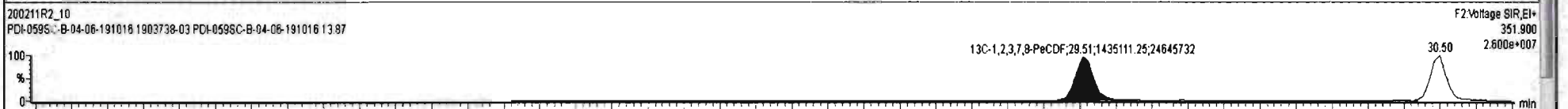
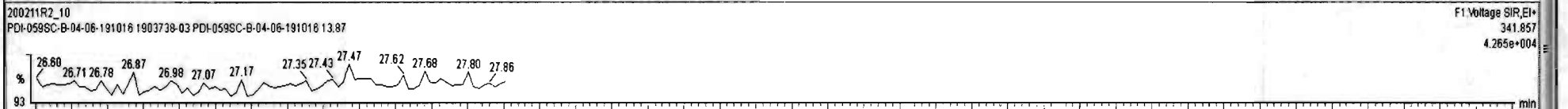
200211R2_10



200211R2_10-1903738-03.PDI-059SC-B-04-06-191016 13.87-PDI-059SC-B-04-06-191016

#	Name	Resp	RA	n/y	RPF	wAcd	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9881	10.038	24.62		0.000		NO	0.4878		0.0531	0.4878
40	Total Penta-Dioxins				0.9723	10.038	29.96		0.000		NO	0.06152		0.0623	0.1838
41	Total Hexa-Dioxins				0.9211	10.038	33.83		0.000		NO	0.6783		0.0624	0.6783
42	Total Hepta-Dioxins				0.9231	10.038	37.64		0.000		NO	1.172		0.128	1.172
43	Total Tetra-Furans				0.9020	10.038	23.81		0.000		NO	0.0000		0.0190	0.08517
44	Total Penta-Furans				0.9074	10.038	27.09		0.000		NO			0.0124	
45	Total Hexa-Furans				0.9074	10.038	29.27		0.000		NO			0.0131	
46	Total Hepta-Furans				0.8982	10.038	33.96		0.000		NO	0.0000		0.0211	0.09417
47	Total Octa-Furans				0.8511	10.038	37.83		0.000		NO			0.0473	
48	PFK1														
49	PFK2														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1										



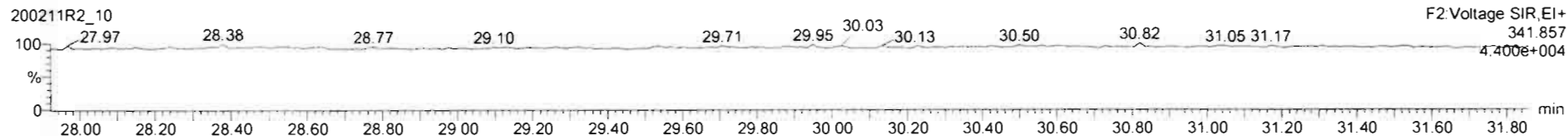
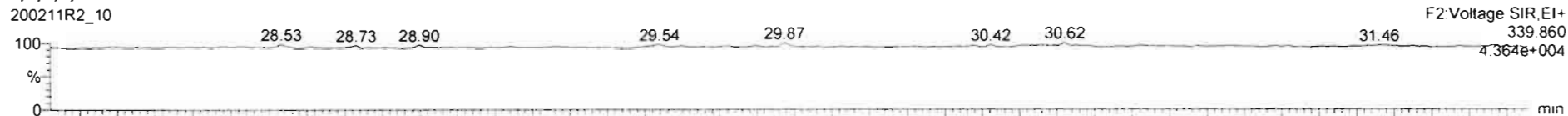
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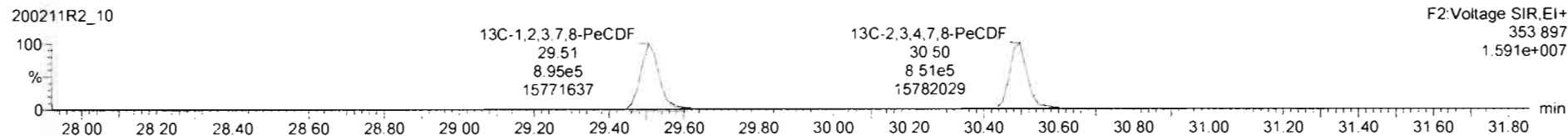
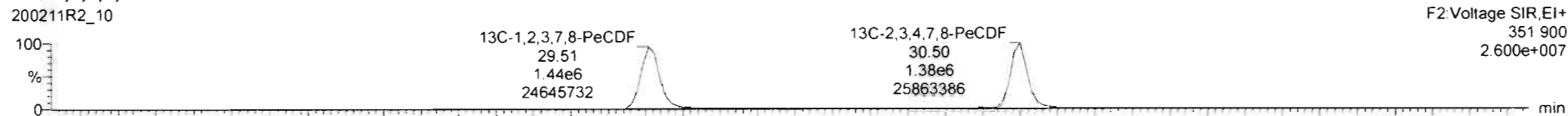
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Name: 200211R2_10, Date: 11-Feb-2020, Time: 23:02:11, ID: 1903738-03 PDI-059SC-B-04-06-191016 13.87, Description: PDI-059SC-B-04-06-191016

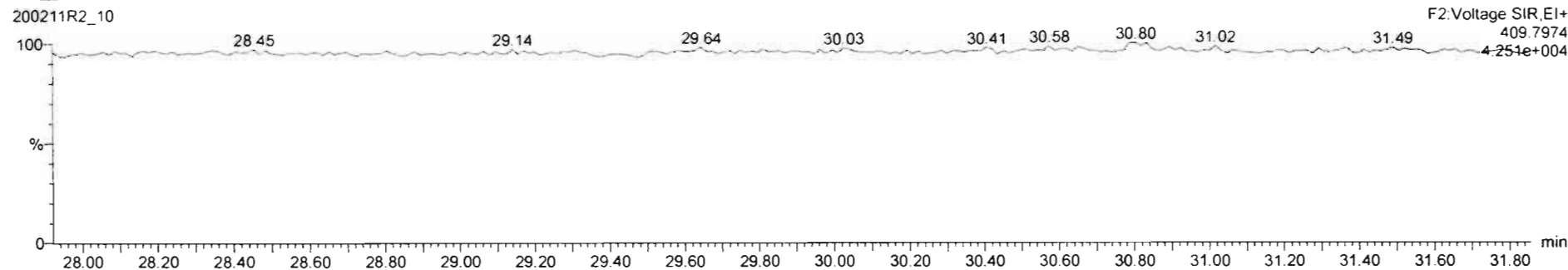
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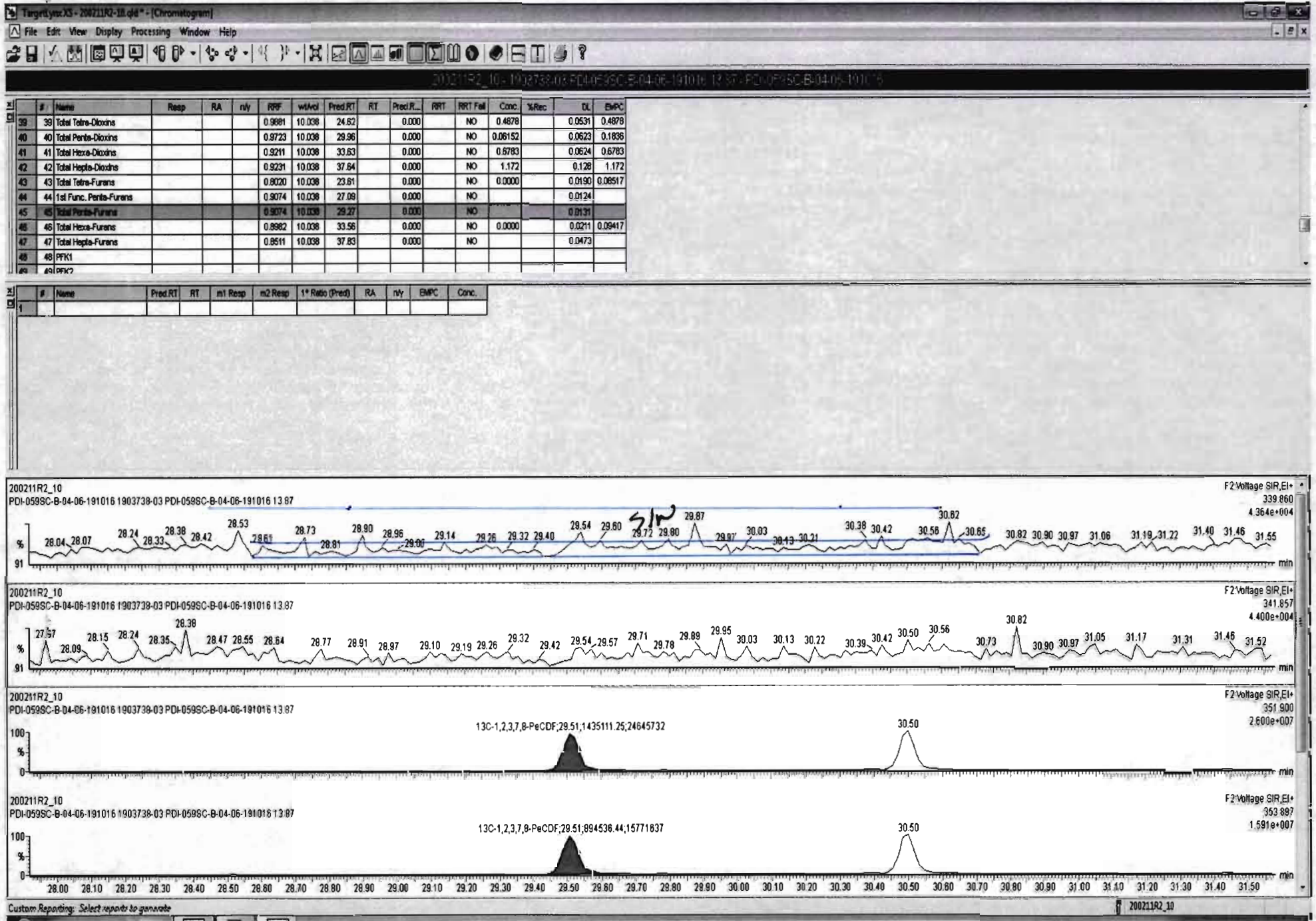


13C-1,2,3,7,8-PeCDF



DPE2





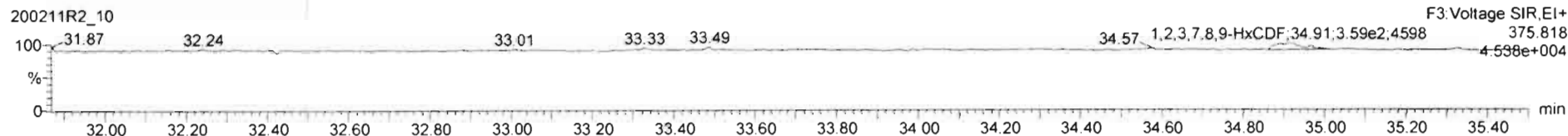
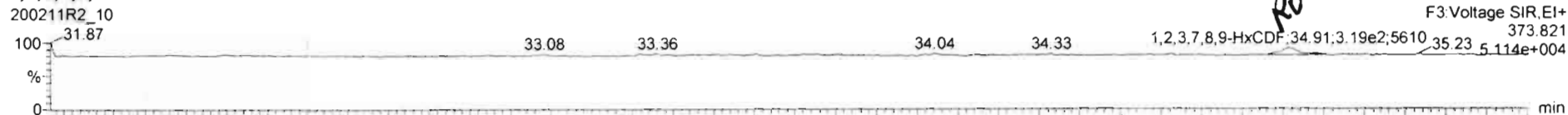
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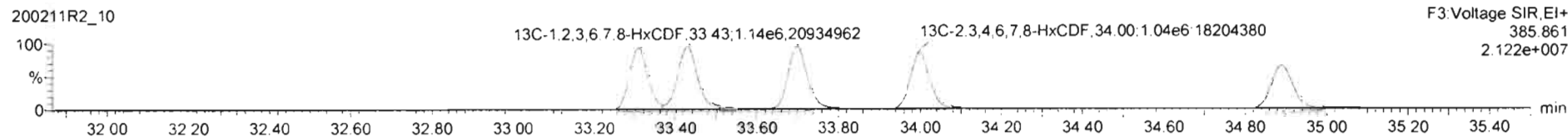
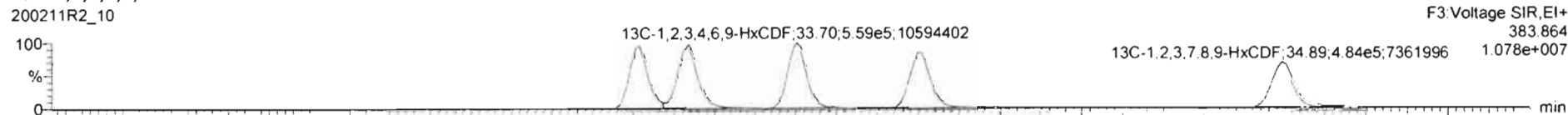
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Name: 200211R2_10, Date: 11-Feb-2020, Time: 23:02:11, ID: 1903738-03 PDI-059SC-B-04-06-191016 13.87, Description: PDI-059SC-B-04-06-191016

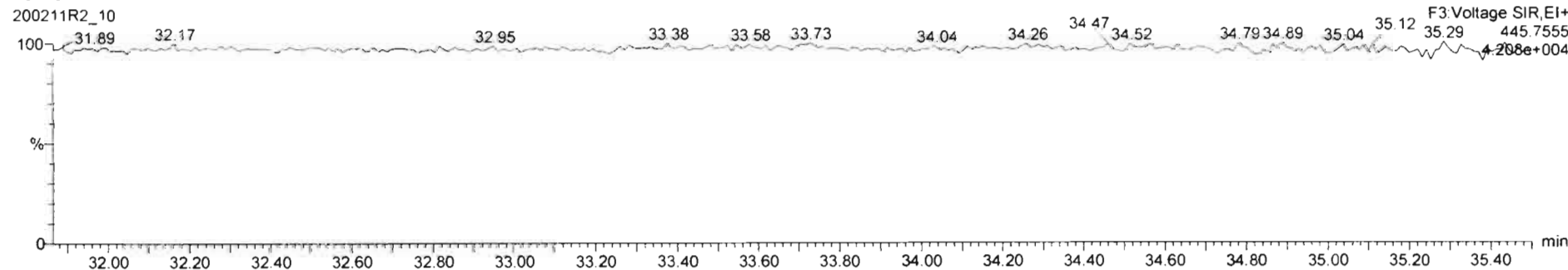
1,2,3,4,7,8-HxCDF

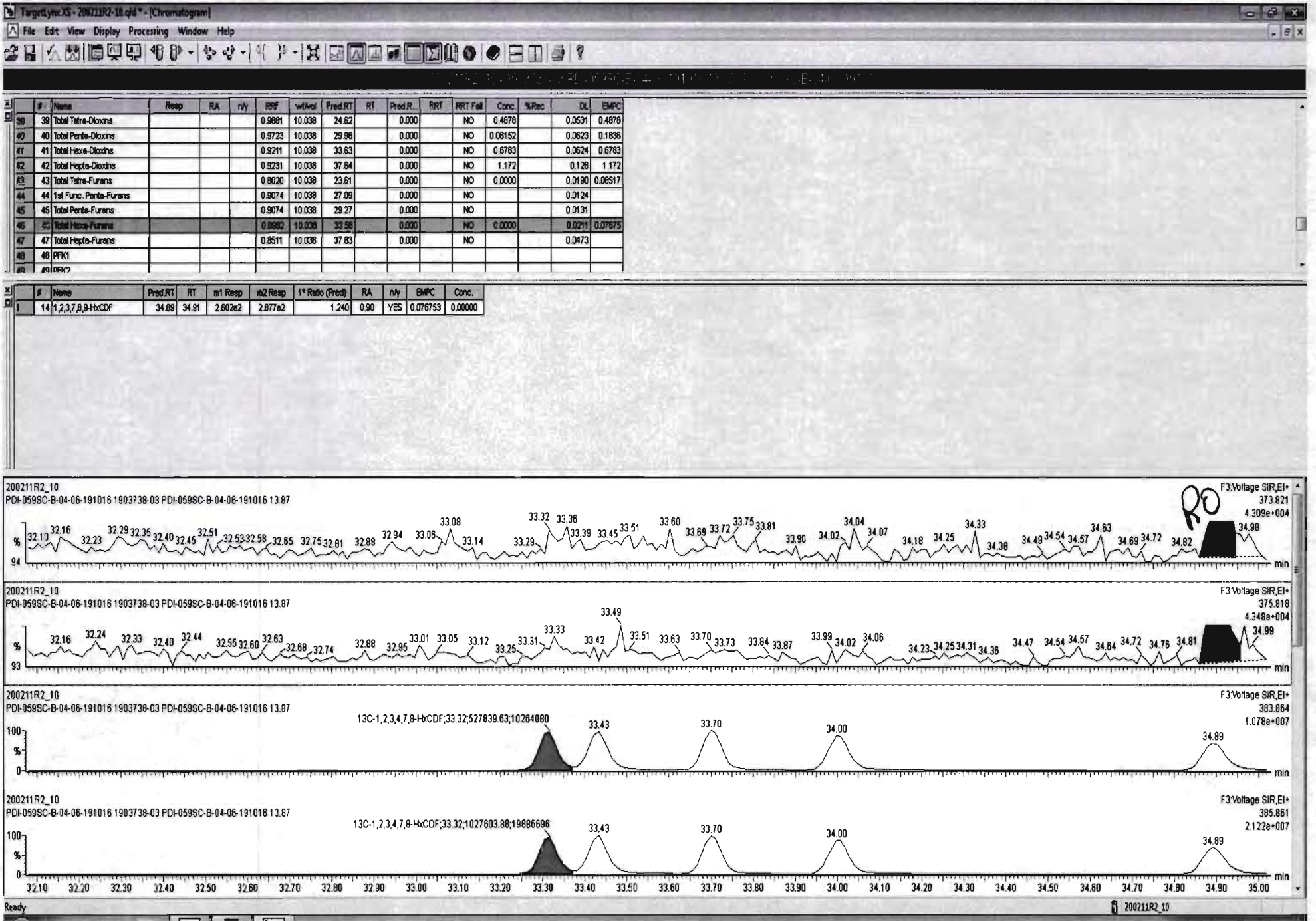


13C-1,2,3,4,7,8-HxCDF



DPE3

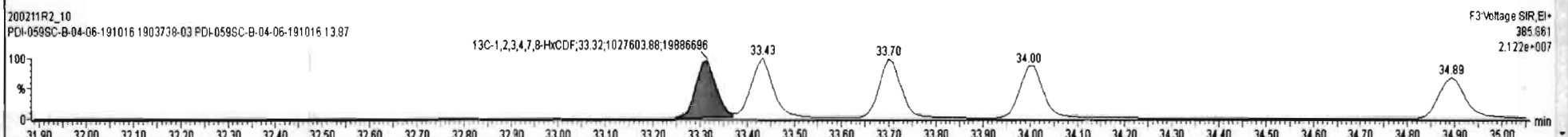
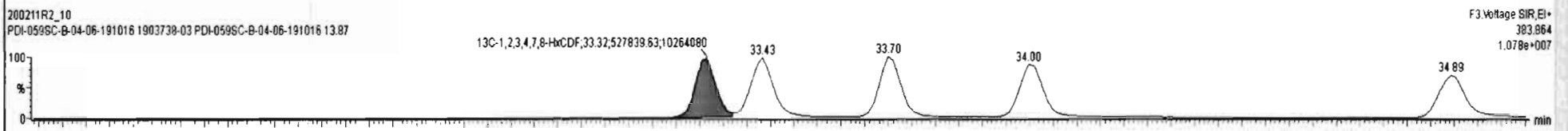
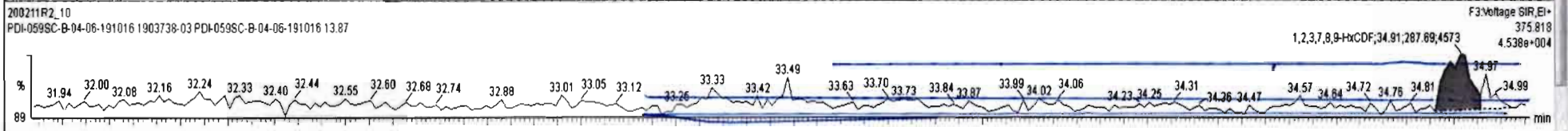
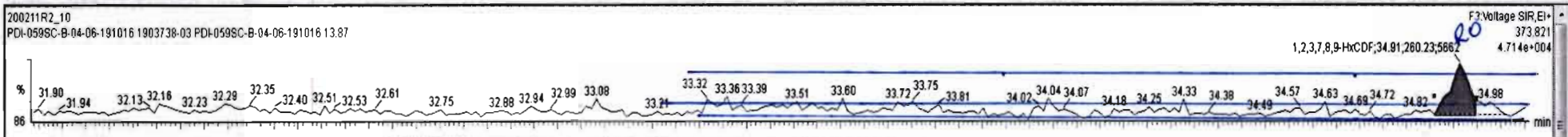




200211R2_10 - 1903738-03 PDI-059SC-B-04-06-191016 13:37 - PDI-059SC-B-04-06-191016

#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
44	44 1st Func. Penta-Furans				0.9074	10.038	27.08		0.000		NO			0.0124	
45	45 Total Penta-Furans				0.9074	10.038	29.27		0.000		NO			0.0131	
46	46 Total Hexa-Furans				0.8962	10.038	33.56		0.000		NO	0.0000		0.0211	0.07675
47	47 Total Hepta-Furans				0.8511	10.038	37.83		0.000		NO			0.0473	
48	48 PFK1														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
14	1,2,3,7,8,9-HxCDF	34.89	34.91	2.602e2	2.877e2	1.240	0.90	YES	0.076753	0.00000



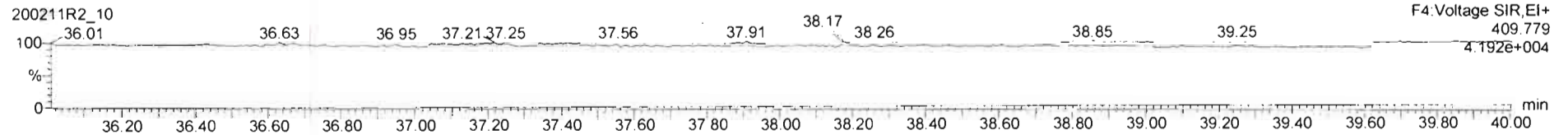
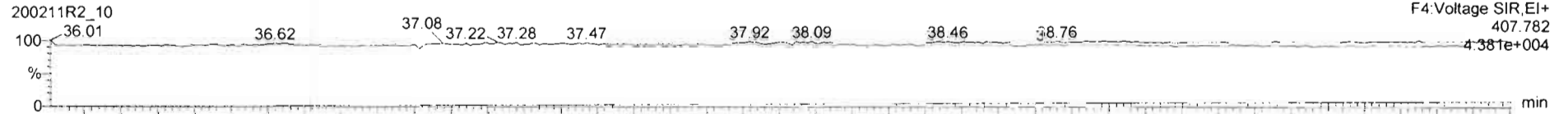
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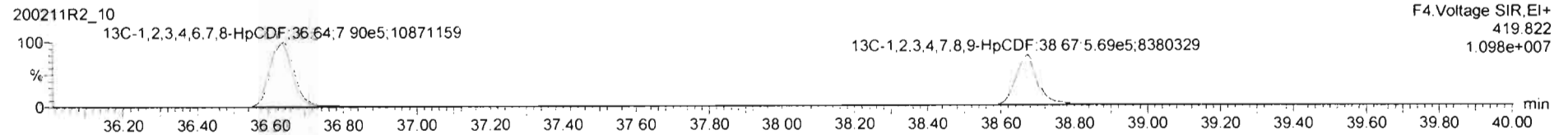
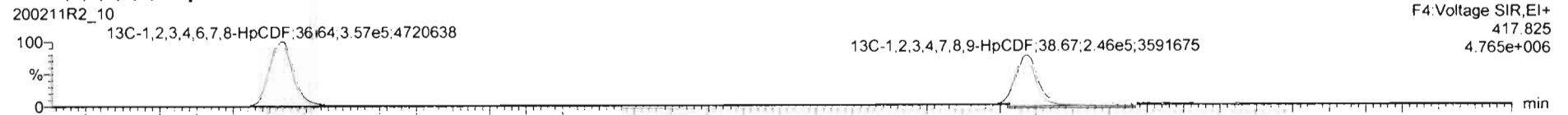
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Name: 200211R2_10, Date: 11-Feb-2020, Time: 23:02:11, ID: 1903738-03 PDI-059SC-B-04-06-191016 13.87, Description: PDI-059SC-B-04-06-191016

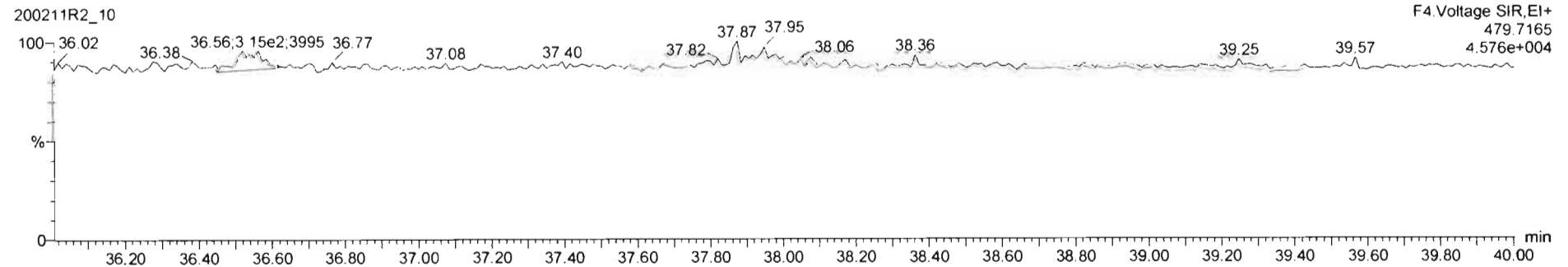
1,2,3,4,6,7,8-HpCDF

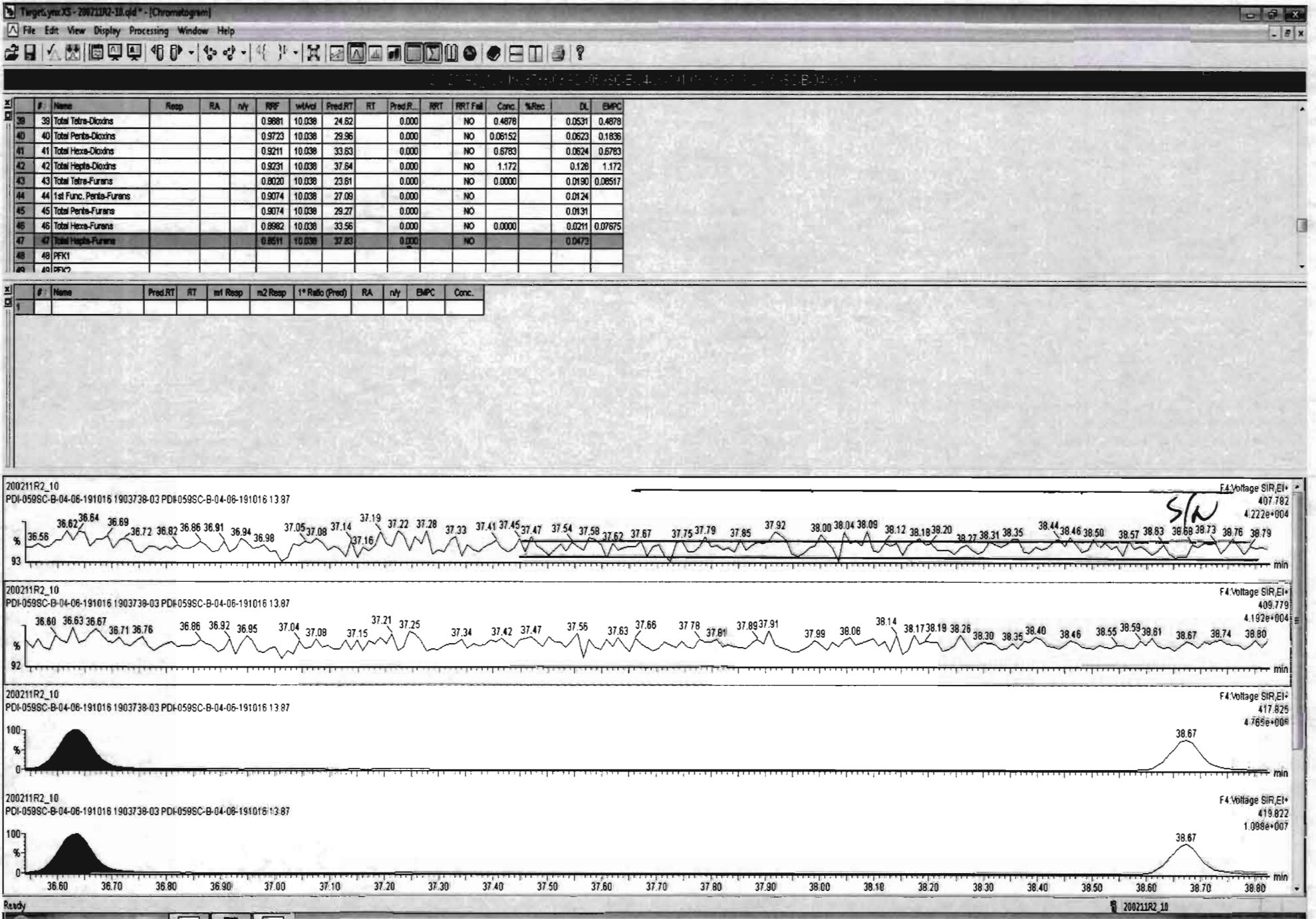


13C-1,2,3,4,6,7,8-HpCDF



DPE4



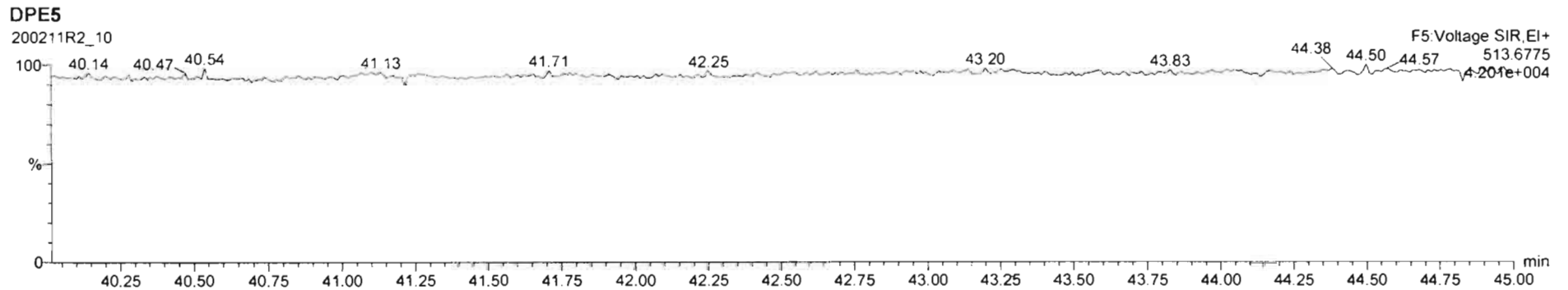
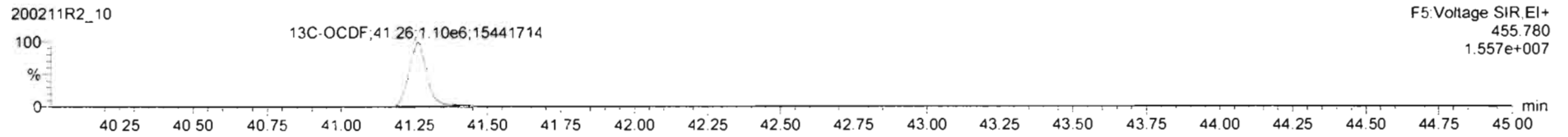
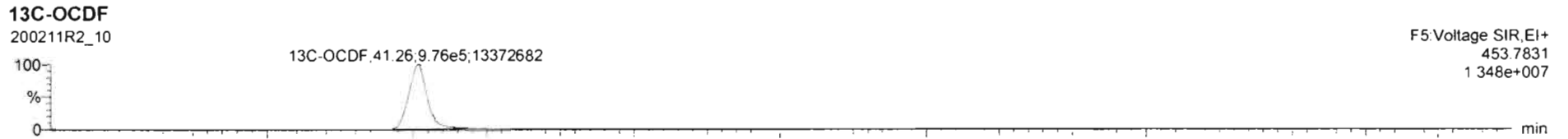
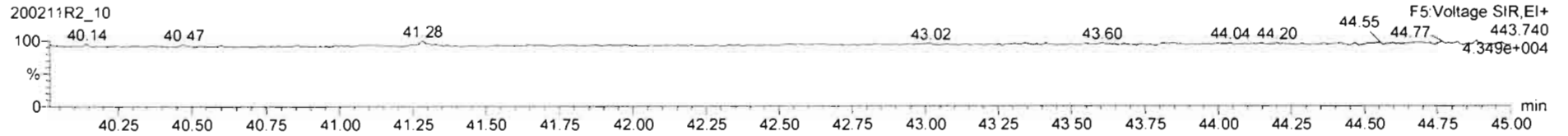
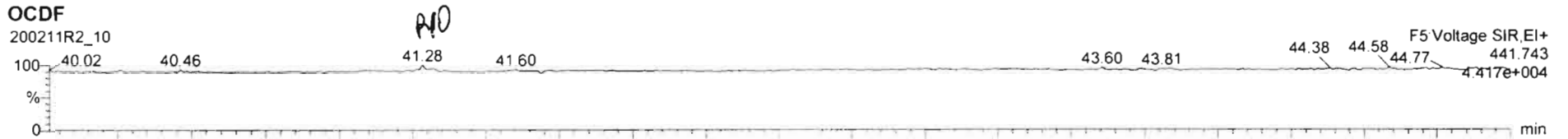


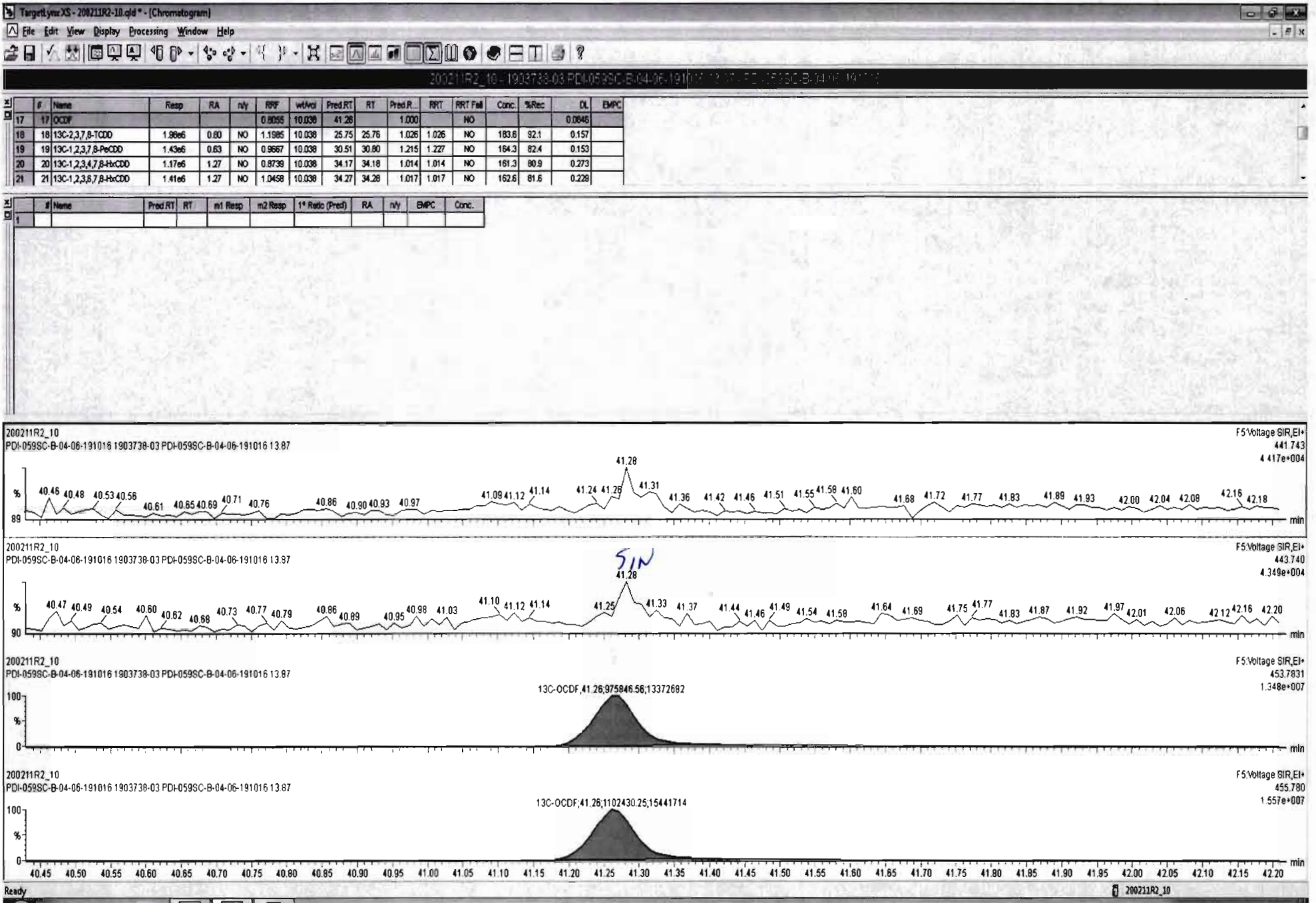
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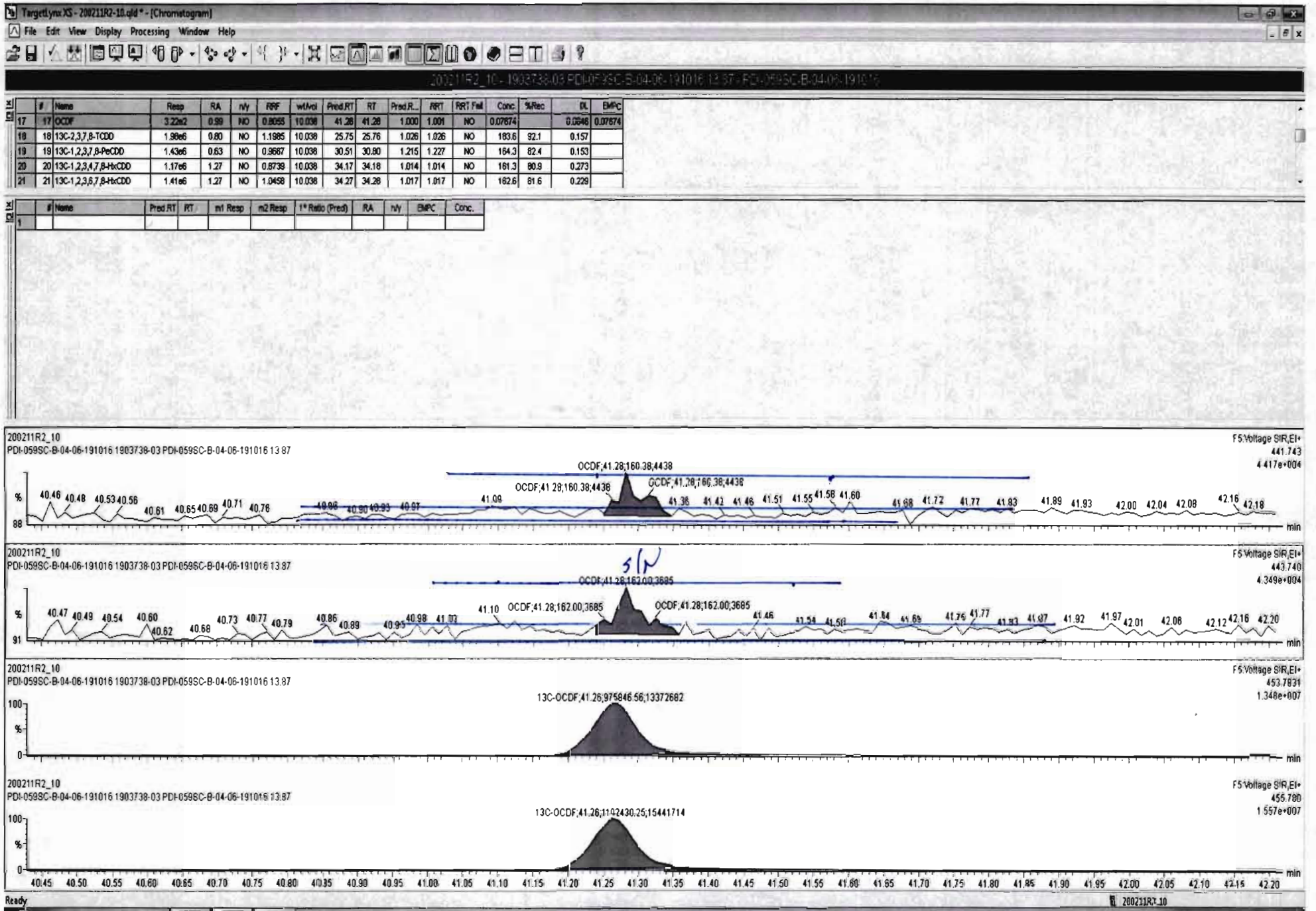
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Name: 200211R2_10, Date: 11-Feb-2020, Time: 23:02:11, ID: 1903738-03 PDI-059SC-B-04-06-191016 13.87, Description: PDI-059SC-B-04-06-191016







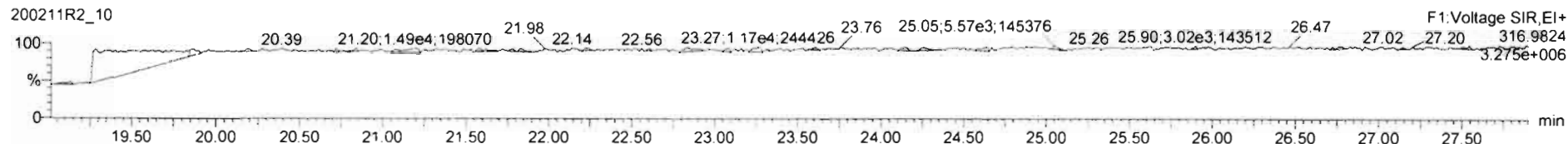
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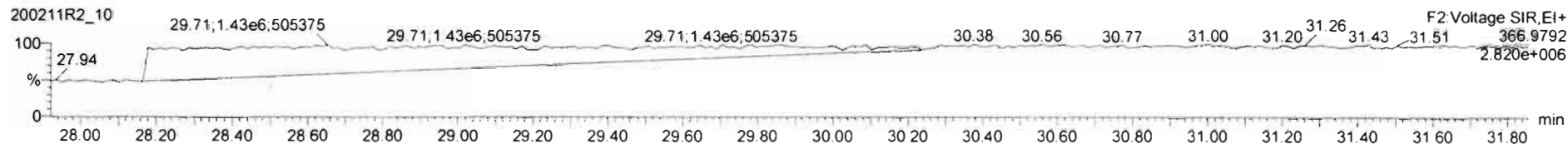
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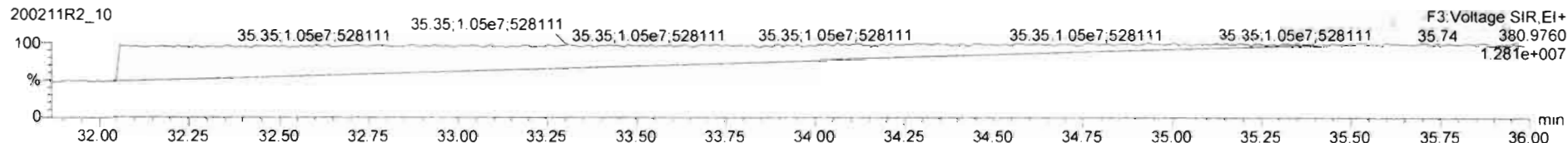
PFK1



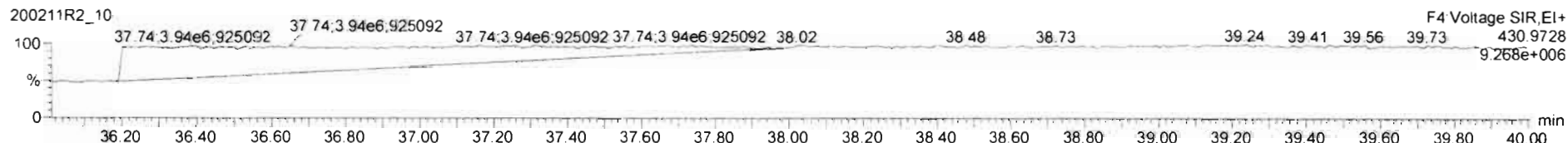
PFK2



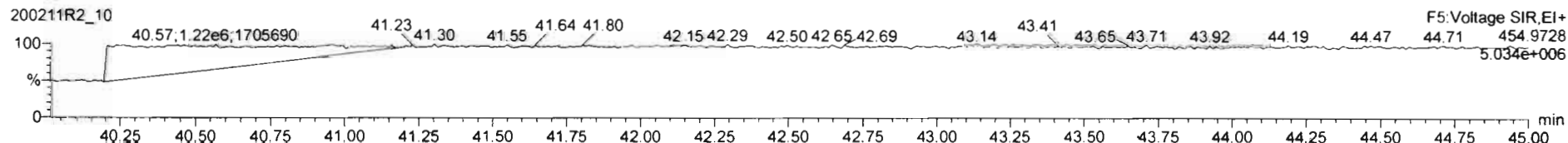
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200211R2\200211R2-11.qld

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Printed: Thursday, February 13, 2020 11:55:53 AM Pacific Standard Time

GRB 02/13/2020

C7 03/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

#	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	0.988	10.051	25.796		1.001				0.0506	
2	2 1,2,3,7,8-PeCDD			NO	0.972	10.051	30.826		1.001				0.0726	
3	3 1,2,3,4,7,8-HxCDD			NO	1.07	10.051	34.178		1.000				0.0614	
4	4 1,2,3,6,7,8-HxCDD	4.22e2	1.10	NO	0.921	10.051	34.275	34.28	1.000	1.000	0.060250		0.0635	0.0602
5	5 1,2,3,7,8,9-HxCDD	7.20e2	1.25	NO	0.918	10.051	34.576	34.57	1.001	1.001	0.10631		0.0693	0.106
6	6 1,2,3,4,6,7,8-HpCDD	6.25e3	0.89	NO	0.923	10.051	38.067	38.07	1.000	1.000	1.0086		0.126	1.01
7	7 OCDD	5.26e4	0.85	NO	0.975	10.051	41.091	41.11	1.000	1.001	9.9847		0.109	9.98
8	8 2,3,7,8-TCDF			NO	0.802	10.051	24.862		1.001				0.0345	
9	9 1,2,3,7,8-PeCDF			NO	0.907	10.051	29.528		1.001				0.0471	
10	10 2,3,4,7,8-PeCDF			NO	0.952	10.051	30.514		1.001				0.0444	
11	11 1,2,3,4,7,8-HxCDF			NO	0.862	10.051	33.306		1.000				0.0390	
12	12 1,2,3,6,7,8-HxCDF			NO	0.841	10.051	33.433		1.000				0.0398	
13	13 2,3,4,6,7,8-HxCDF			NO	0.898	10.051	34.032		1.001				0.0406	
14	14 1,2,3,7,8,9-HxCDF	4.58e2	0.56	YES	0.858	10.051	34.893	34.89	1.000	1.000	0.071043		0.0562	0.0459
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.851	10.051	36.676		1.001				0.0664	
16	16 1,2,3,4,7,8,9-HpCDF			NO	0.980	10.051	38.684		1.000				0.0762	
17	17 OCDF	4.89e2	0.83	NO	0.806	10.051	41.283	41.30	1.000	1.001	0.10006		0.0897	0.100
18	18 13C-2,3,7,8-TCDD	2.14e6	0.80	NO	1.20	10.051	25.752	25.76	1.026	1.026	201.33	101	0.170	
19	19 13C-1,2,3,7,8-PeCDD	1.54e6	0.63	NO	0.967	10.051	30.505	30.80	1.215	1.227	179.15	90.0	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	1.31e6	1.27	NO	0.874	10.051	34.172	34.17	1.014	1.014	180.60	90.8	0.368	
21	21 13C-1,2,3,6,7,8-HxCDD	1.51e6	1.27	NO	1.05	10.051	34.273	34.28	1.017	1.017	174.01	87.4	0.307	
22	22 13C-1,2,3,7,8,9-HxCDD	1.47e6	1.26	NO	0.974	10.051	34.576	34.54	1.026	1.025	181.19	91.1	0.330	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.34e6	1.03	NO	0.747	10.051	38.148	38.06	1.132	1.129	214.88	108	0.440	
24	24 13C-OCDD	2.15e6	0.87	NO	0.707	10.051	41.047	41.09	1.218	1.219	365.72	91.9	0.374	
25	25 13C-2,3,7,8-TCDF	3.03e6	0.78	NO	1.07	10.051	24.931	24.84	0.993	0.989	191.77	96.4	0.212	
26	26 13C-1,2,3,7,8-PeCDF	2.49e6	1.57	NO	1.00	10.051	29.275	29.51	1.166	1.175	167.69	84.3	0.327	
27	27 13C-2,3,4,7,8-PeCDF	2.35e6	1.60	NO	0.962	10.051	30.497	30.48	1.215	1.214	165.06	82.9	0.341	
28	28 13C-1,2,3,4,7,8-HxCDF	1.77e6	0.51	NO	1.05	10.051	33.296	33.31	0.988	0.988	202.65	102	0.432	
29	29 13C-1,2,3,6,7,8-HxCDF	1.91e6	0.52	NO	1.19	10.051	33.397	33.42	0.991	0.992	192.82	96.9	0.381	
30	30 13C-2,3,4,6,7,8-HxCDF	1.74e6	0.52	NO	1.07	10.051	34.007	34.00	1.009	1.009	195.72	98.4	0.425	
31	31 13C-1,2,3,7,8,9-HxCDF	1.49e6	0.53	NO	0.922	10.051	34.913	34.89	1.036	1.035	194.84	97.9	0.491	

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-11.qld

Last Altered: Thursday, February 13, 2020 11:54:36 AM Pacific Standard Time
Printed: Thursday, February 13, 2020 11:55:53 AM Pacific Standard Time

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

#	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	1.28e6	0.45	NO	0.767	10.051	36.666	36.64	1.088	1.087	200.80	101	0.474	
33	13C-1,2,3,4,7,8,9-HpCDF	9.23e5	0.44	NO	0.552	10.051	38.688	38.68	1.148	1.148	200.89	101	0.659	
34	13C-OCDF	2.42e6	0.88	NO	0.789	10.051	41.283	41.28	1.225	1.225	367.87	92.4	0.357	
35	37Cl-2,3,7,8-TCDD	8.17e5			1.18	10.051	25.785	25.80	1.027	1.027	78.162	98.2	0.0536	
36	13C-1,2,3,4-TCDD	1.77e6	0.81	NO	1.00	10.051	25.110	25.11	1.000	1.000	198.99	100	0.204	
37	13C-1,2,3,4-TCDF	2.95e6	0.79	NO	1.00	10.051	23.370	23.39	1.000	1.000	198.99	100	0.226	
38	13C-1,2,3,4,6,9-HxCDF	1.66e6	0.51	NO	1.00	10.051	33.710	33.70	1.000	1.000	198.99	100	0.453	
39	Total Tetra-Dioxins				0.988	10.051	24.620		0.000		0.35811		0.0506	0.399
40	Total Penta-Dioxins				0.972	10.051	29.960		0.000		0.14525		0.0726	0.145
41	Total Hexa-Dioxins				0.921	10.051	33.635		0.000		1.3860		0.0678	1.39
42	Total Hepta-Dioxins				0.923	10.051	37.640		0.000		3.3269		0.126	3.33
43	Total Tetra-Furans				0.802	10.051	23.610		0.000		0.049005		0.0345	0.0490
44	1st Func. Penta-Furans				0.907	10.051	27.090		0.000				0.0110	
45	Total Penta-Furans				0.907	10.051	29.275		0.000				0.0221	
46	Total Hexa-Furans				0.898	10.051	33.555		0.000		0.00000		0.0261	0.0817
47	Total Hepta-Furans				0.851	10.051	37.835		0.000				0.0407	

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-11.qld

Last Altered: Thursday, February 13, 2020 11:54:36 AM Pacific Standard Time
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Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46
 Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	22.62	5.658e3	3.555e3	2.281e2	2.462e2	0.93	YES	0.000e0	0.00000	0.040947	0.0506
2	Total Tetra-Dioxins	23.55	1.785e4	2.295e4	1.619e3	2.192e3	0.74	NO	3.811e3	0.35811	0.35811	0.0506

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.05	8.187e3	1.203e4	4.252e2	6.663e2	0.64	NO	1.092e3	0.14525	0.14525	0.0726

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.71	5.806e4	5.067e4	3.215e3	2.707e3	1.19	NO	5.923e3	0.89363	0.89363	0.0678
2	Total Hexa-Dioxins	33.52	1.783e4	1.561e4	1.195e3	9.640e2	1.24	NO	2.159e3	0.32578	0.32578	0.0678
3	1,2,3,6,7,8-HxCDD	34.28	4.679e3	4.081e3	2.209e2	2.013e2	1.10	NO	4.222e2	0.060250	0.060250	0.0635
4	1,2,3,7,8,9-HxCDD	34.57	6.185e3	6.237e3	4.005e2	3.199e2	1.25	NO	7.204e2	0.10631	0.10631	0.0693

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.04	8.029e4	8.248e4	7.251e3	7.112e3	1.02	NO	1.436e4	2.3183	2.3183	0.126
2	1,2,3,4,6,7,8-HpCDD	38.07	3.323e4	3.631e4	2.947e3	3.303e3	0.89	NO	6.249e3	1.0086	1.0086	0.126

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.74	3.172e3	4.407e3	2.467e2	3.516e2	0.70	NO	5.983e2	0.049005	0.049005	0.0345

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-11.qld

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Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

Penta-Furans function 1

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

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	34.89	4.243e3	4.460e3	1.639e2	2.939e2	0.56	YES	4.578e2	0.00000	0.045944	0.0582
2	Total Hexa-Furans	34.91	4.689e3	3.578e3	1.983e2	1.243e2	1.60	YES	0.000e0	0.00000	0.035717	0.0261

Hepta-Furans

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

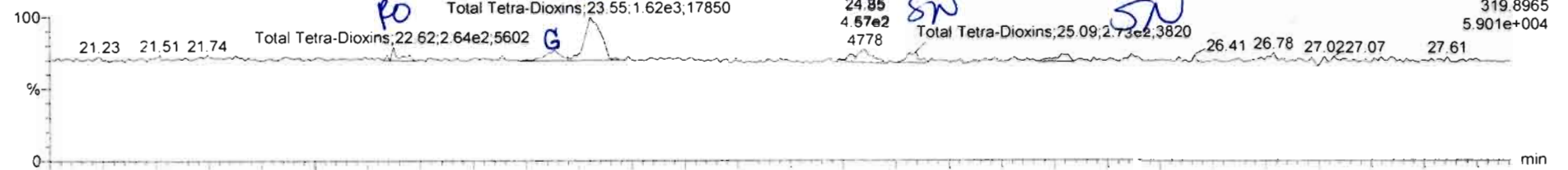
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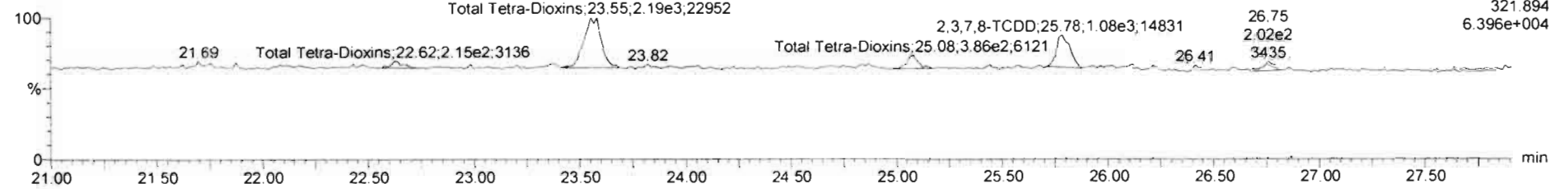
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2,3,7,8-TCDD

200211R2_11

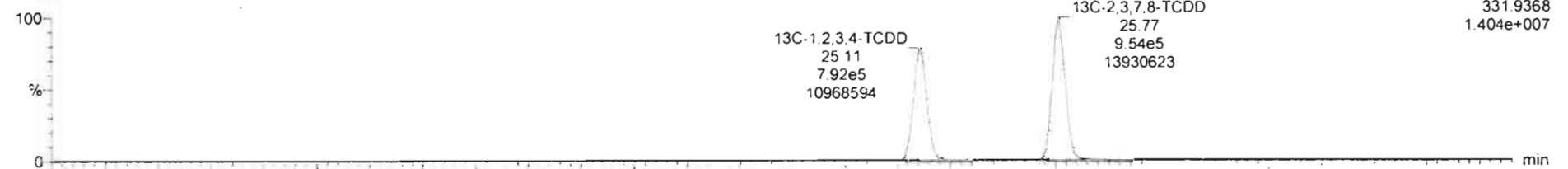


200211R2_11

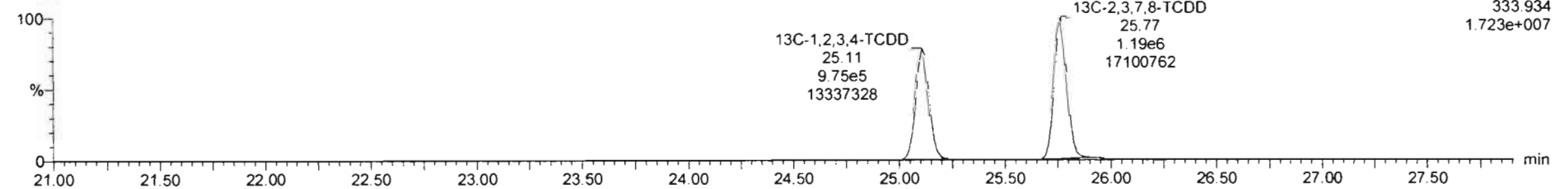


13C-2,3,7,8-TCDD

200211R2_11



200211R2_11



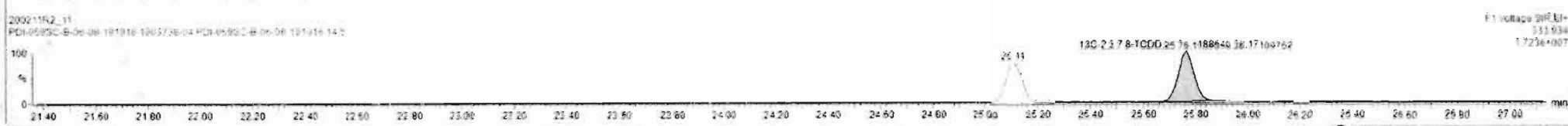
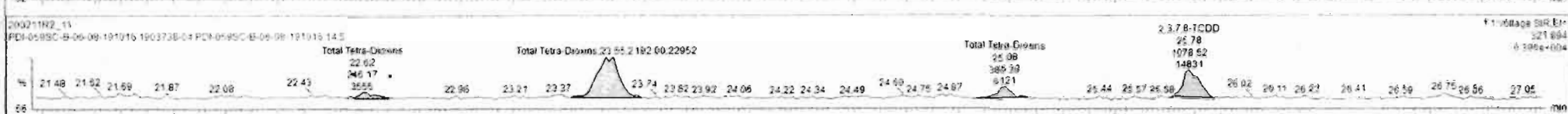
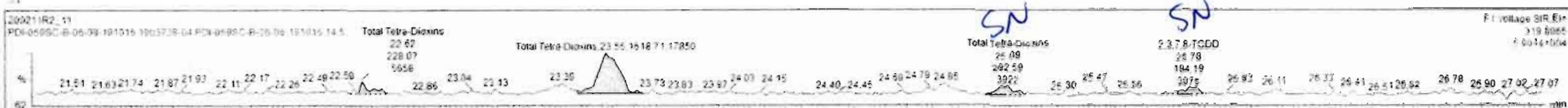
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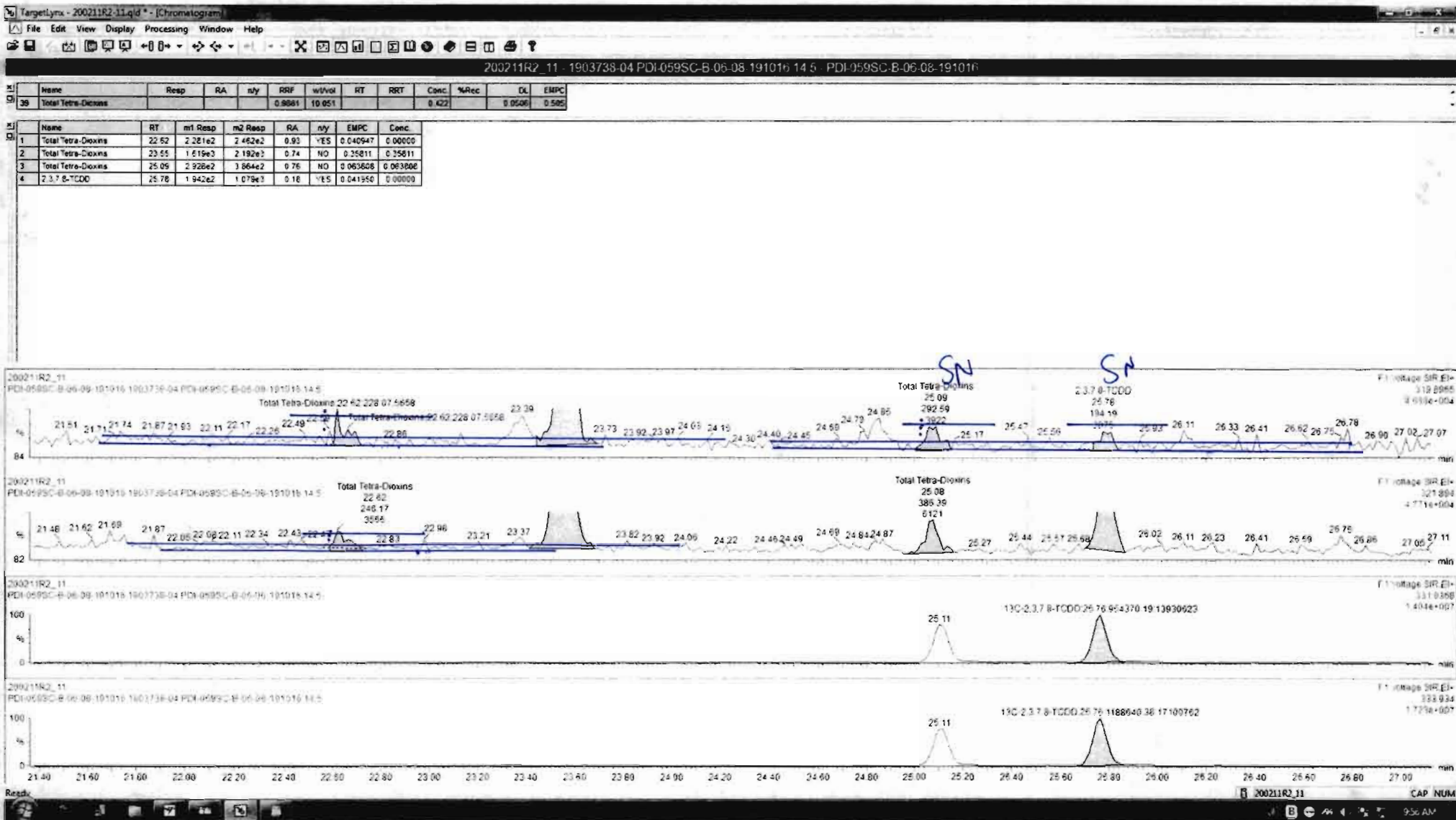
File Edit View Display Processing Window Help

200211R2_11 - 1903738-04 PDI-059SC-B-06-08 191016 14 5 - PDI-059SC-B-06-08-191016

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9581	10.051			0.422		9.9506	0.595

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	22.62	2.281e2	2.452e2	0.92	YES	0.040947	0.00000
2 Total Tetra-Dioxins	23.55	1.619e3	2.192e3	0.74	NO	0.25811	0.35811
3 Total Tetra-Dioxins	25.05	2.926e2	3.964e2	0.76	NO	0.063808	0.063806
4 2,3,7,8-TCDD	25.78	1.942e2	1.079e3	0.18	YES	0.041950	0.00000





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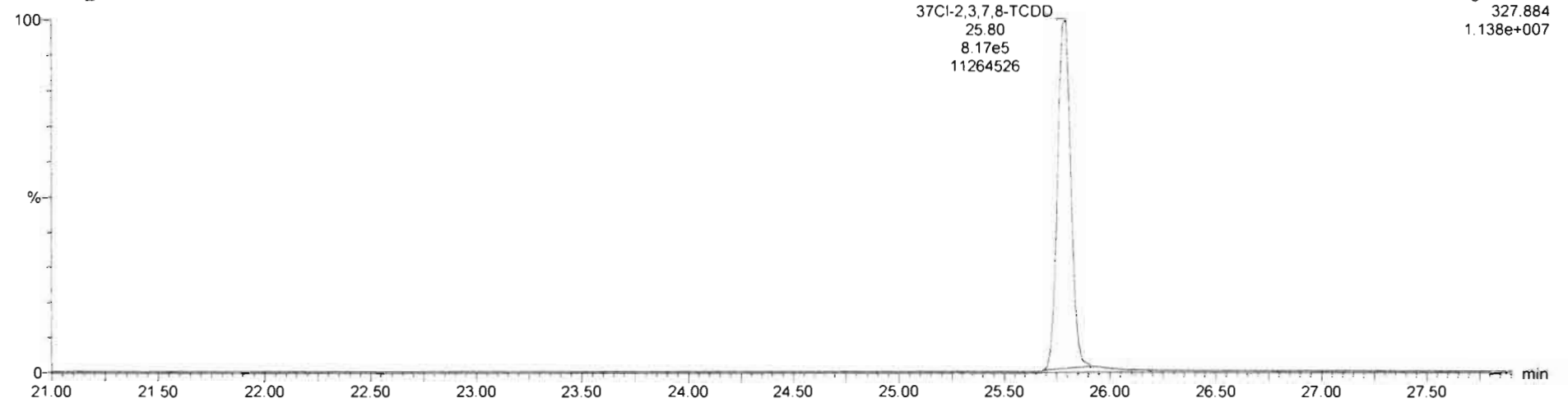
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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

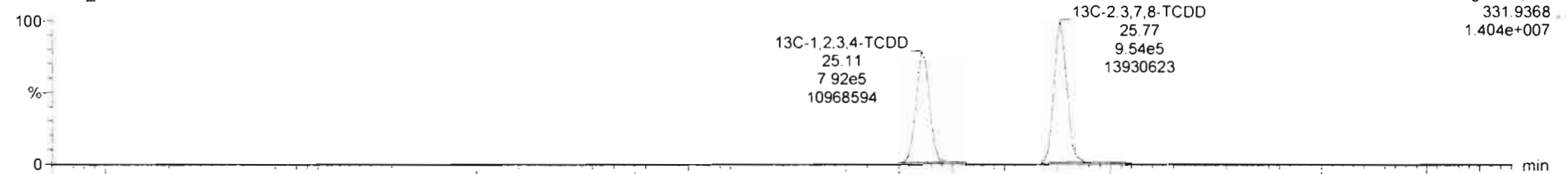
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200211R2_11

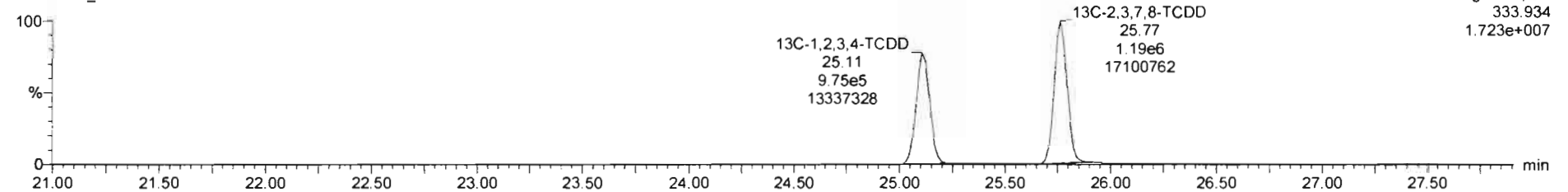


13C-1,2,3,4-TCDD

200211R2_11



200211R2_11



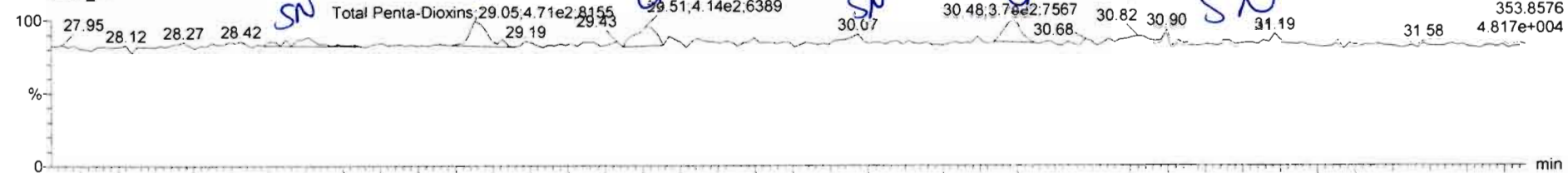
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Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

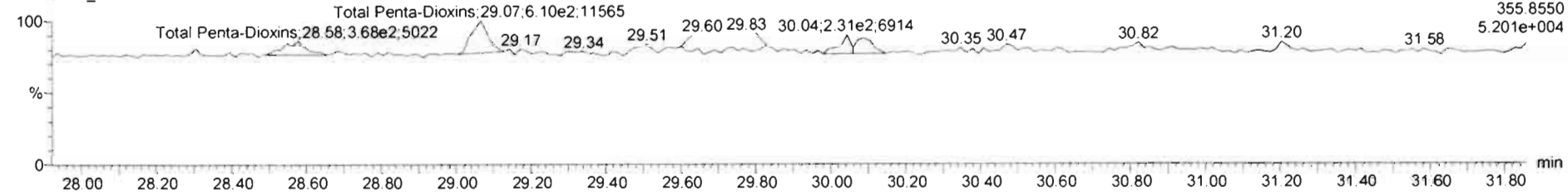
1,2,3,7,8-PeCDD

200211R2_11



F2 Voltage SIR, EI+
353.8576
4.817e+004

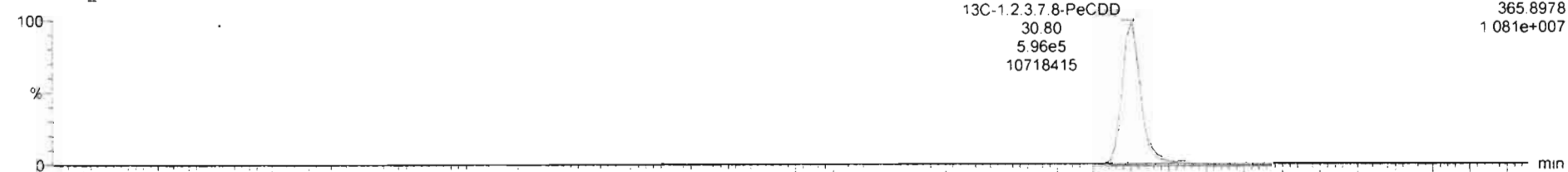
200211R2_11



F2 Voltage SIR, EI+
355.8550
5.201e+004

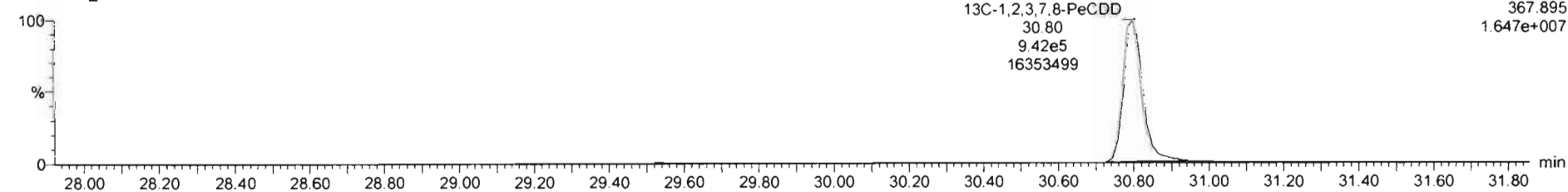
13C-1,2,3,7,8-PeCDD

200211R2_11



F2 Voltage SIR, EI+
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1.081e+007

200211R2_11

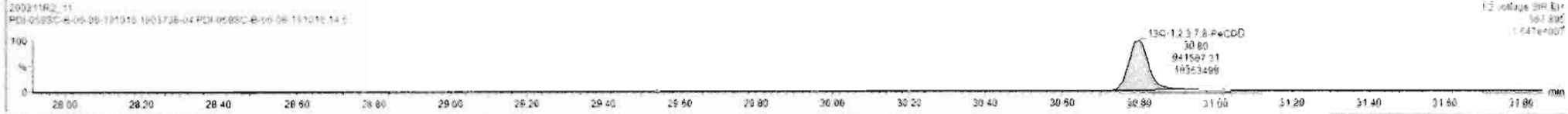
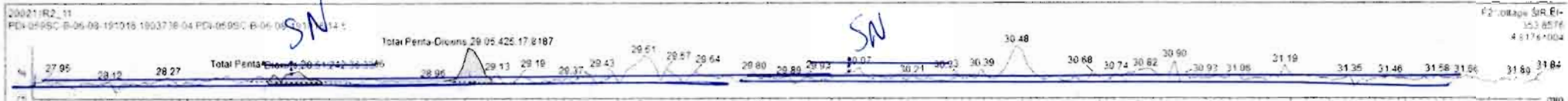


F2 Voltage SIR, EI+
367.895
1.647e+007

200211R2_11 - 1903735-04 PDI-059SC-B-06-08-191016 14 5 - PDI-059SC-B-06-08-191016

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9723	10.051			0.226		0.0726	0.226

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.61	2.424e2	2.881e2	0.66	nD	0.081234	0.081234
2 Total Penta-Dioxins	29.05	4.252e2	6.663e2	0.34	nD	0.14525	0.14525



Dataset: Untitled

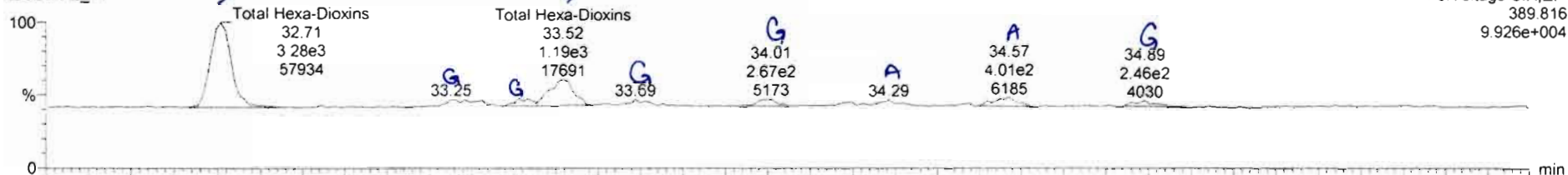
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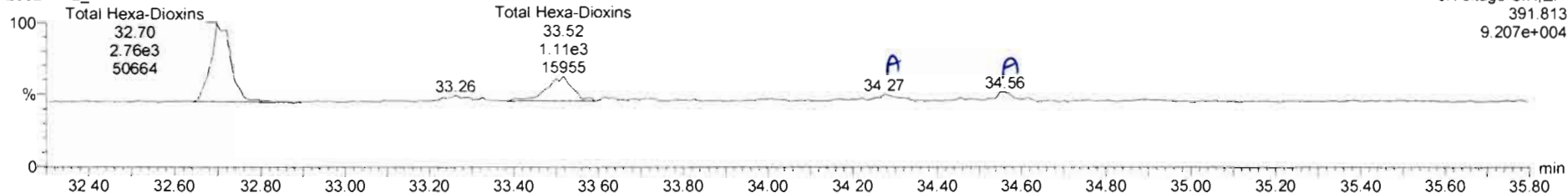
Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

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

200211R2_11

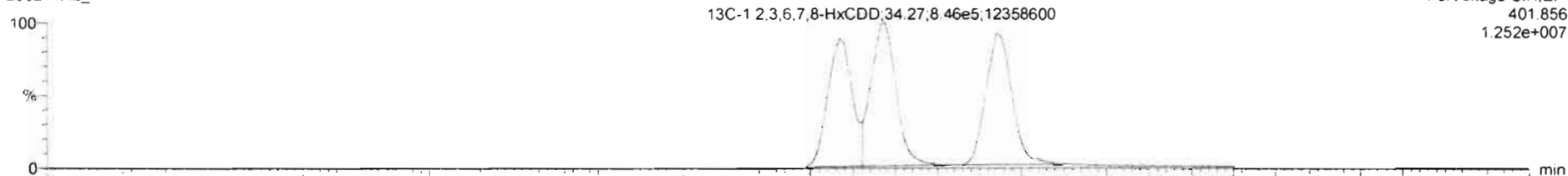


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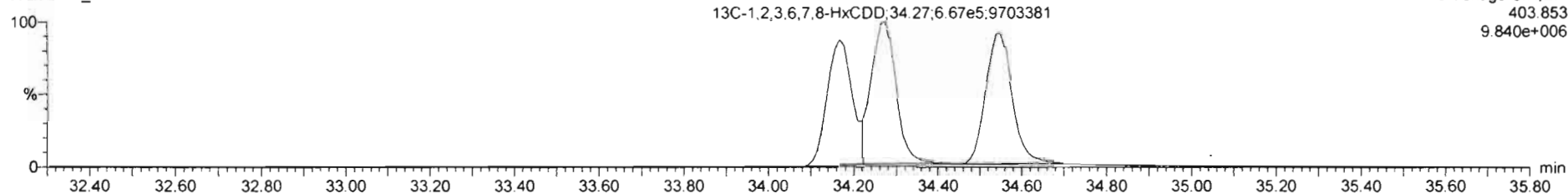


13C-1,2,3,4,7,8-HxCDD

200211R2_11



200211R2_11



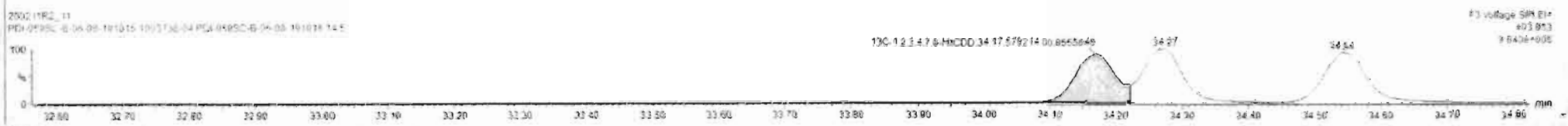
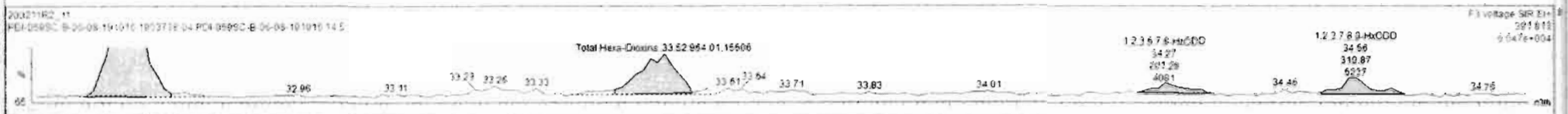
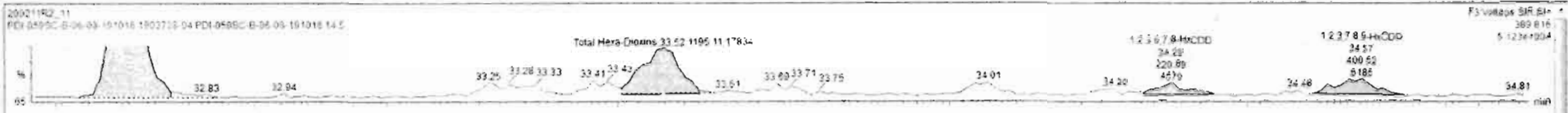
TargetLynx - 200211R2_11.qid * [Chromatogram]

File Edit View Display Processing Window Help

200211R2_11 - 1903738-04 PDI-059SC-B-06-08-191016 14.5 - PDI-059SC-B-06-08-191016

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
40	Total Penta-Dioxins			0.9723	10.051			0.145		0.0726	0.145

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Hexa-Dioxins	32.71	3.215e3	2.707e3	1.19	NO	0.29363	0.69363
2	Total Hexa-Dioxins	33.52	1.195e3	9.640e2	1.24	NO	0.32578	0.32578
3	1,2,3,6,7,8-HxCDD	34.29	2.209e2	2.013e2	1.10	NO	0.060250	0.060250
4	1,2,3,7,8,9-HxCDD	34.57	4.005e2	3.199e2	1.25	NO	0.10631	0.10631

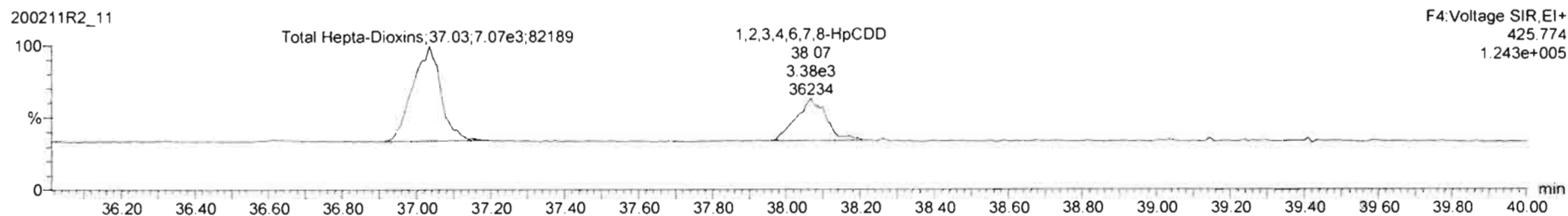
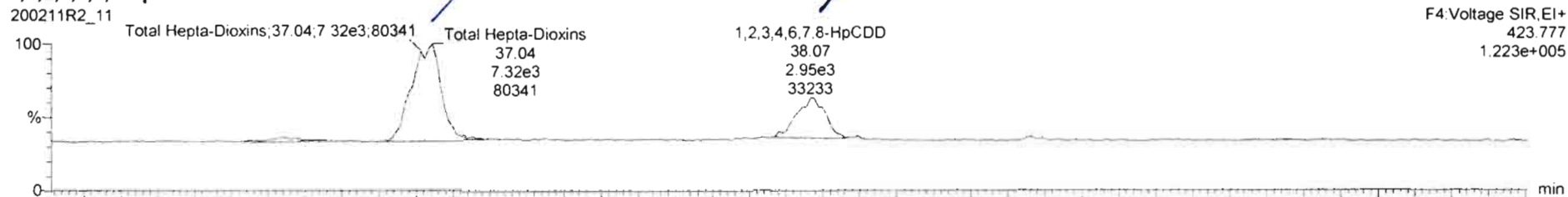


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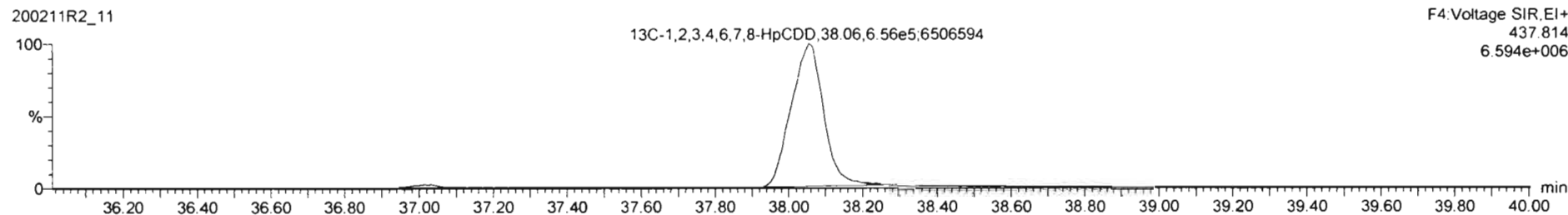
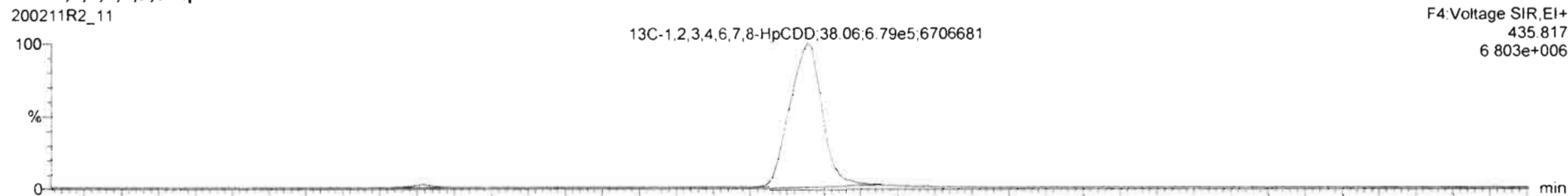
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Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

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



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



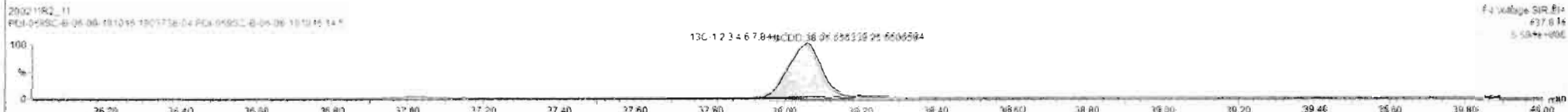
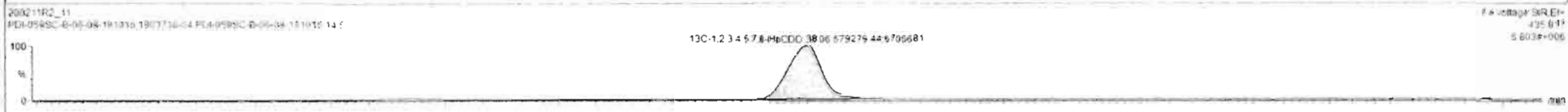
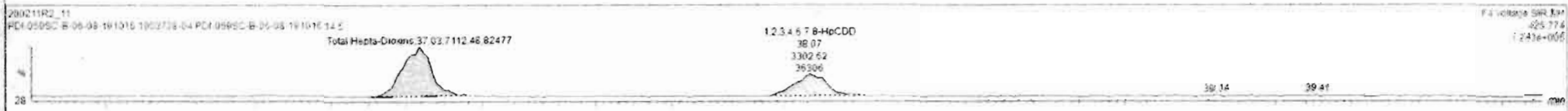
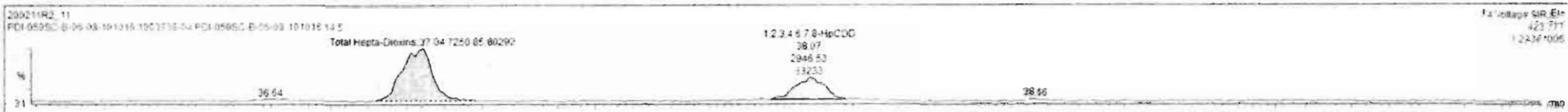
TargetLynx - 200211R2_11.qld - [Chromatogram]

File Edit View Display Processing Window Help

200211R2_11 - 1903738-04 PDI-059SC-B-06-08-191016-14.5 - PDI-059SC-B-06-08-191016

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins			0.9231	10.051			3.33		0.126	3.33

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Hepta-Dioxins	37.04	7.251e3	7.112e3	1.02	NO	2.3183	2.3183
2	1,2,3,4,6,7,8-HpCDD	38.07	2.547e3	3.303e3	0.89	NO	1.0086	1.0086

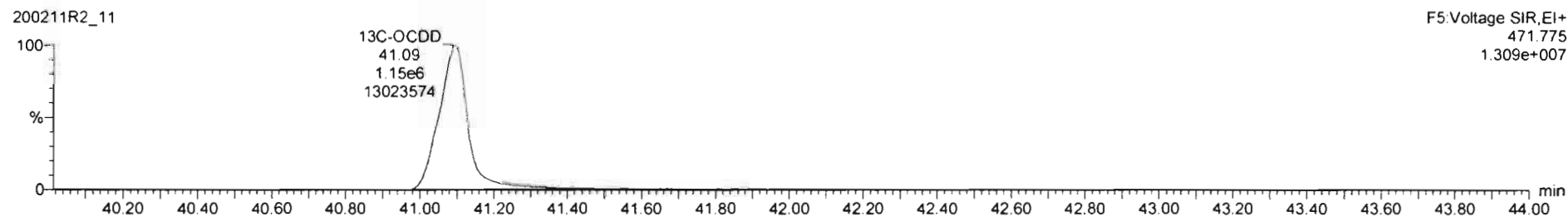
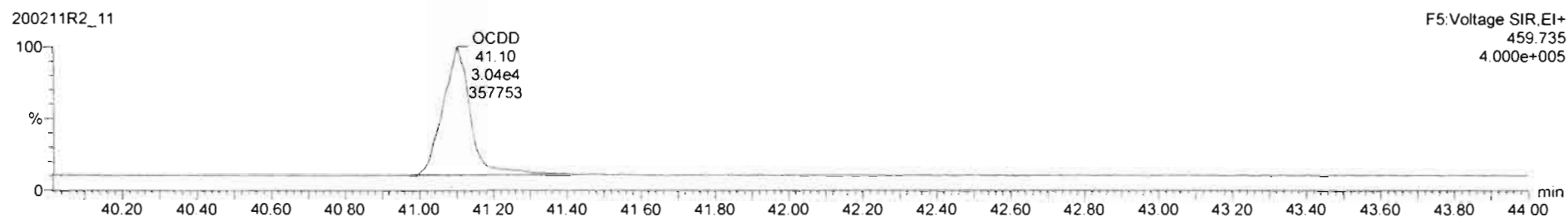
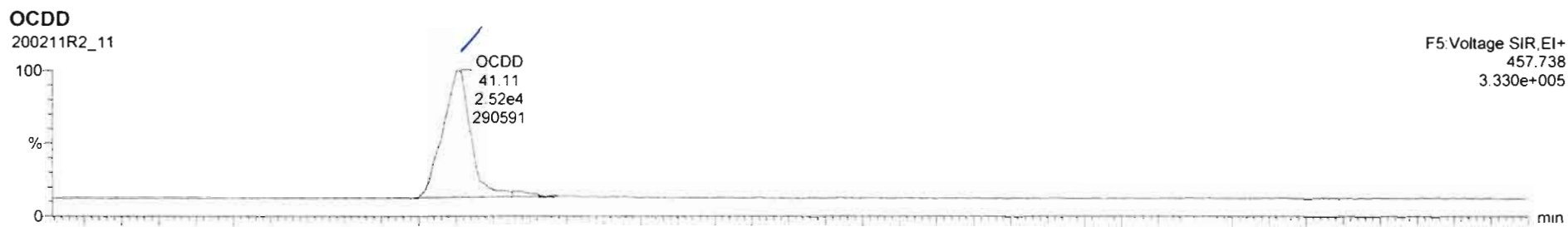


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Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016



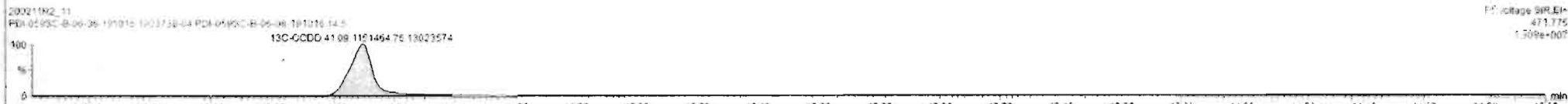
TargetLynx - 200211R2_11.qld - [Chromatogram]

File Edit View Display Processing Window Help

200211R2_11 - 1903738.04 PDI-059SC-B-06-08-191016 14.5 PDI-059SC-B-06-08-191016

Name	Resp	RA	n/y	RRT	wtVnl	RT	RRT	Conc	%Rec	DL	EMPC
OCDD	5.26e4	0.65	NO	0.9746	10.851	41.11	1.001	9.96		0.109	9.96

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



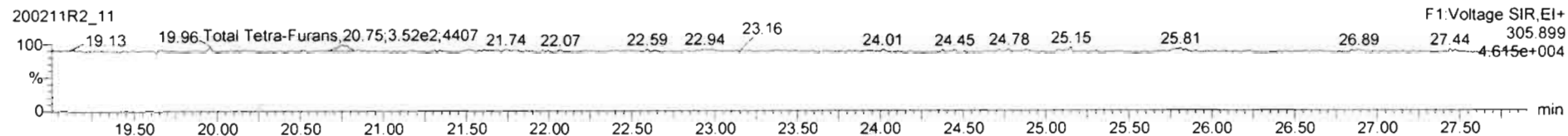
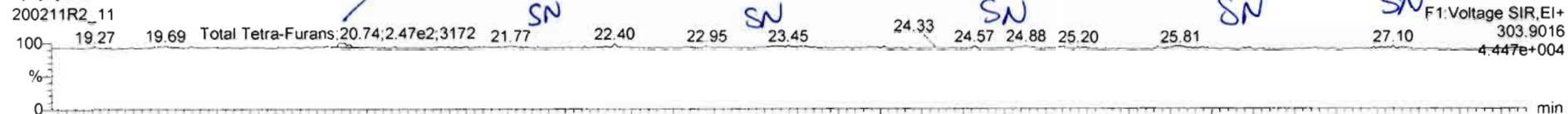
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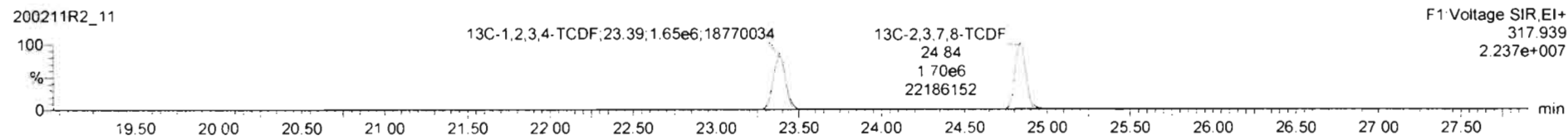
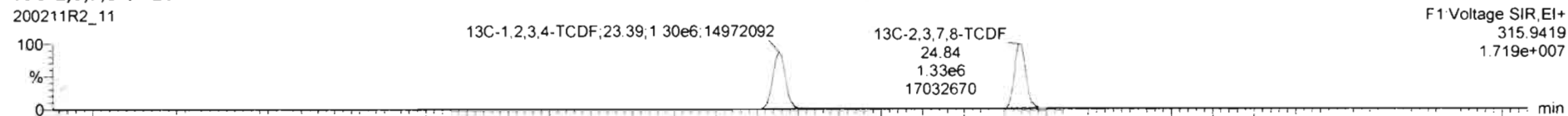
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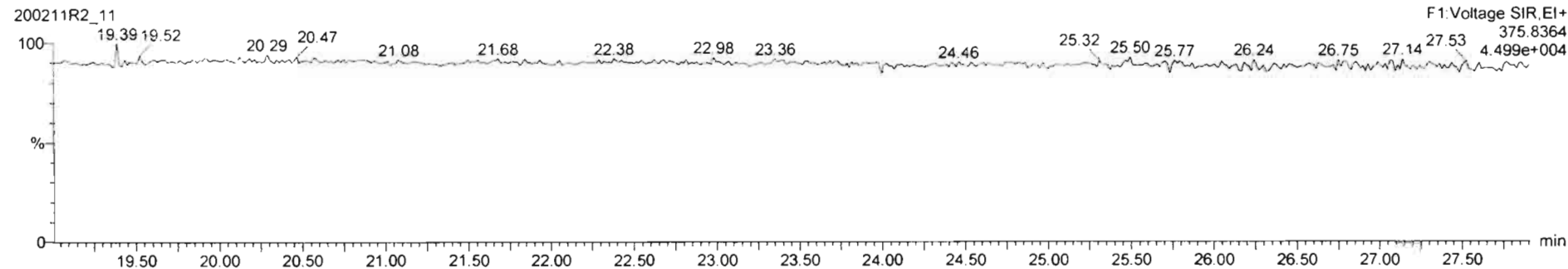
2,3,7,8-TCDF

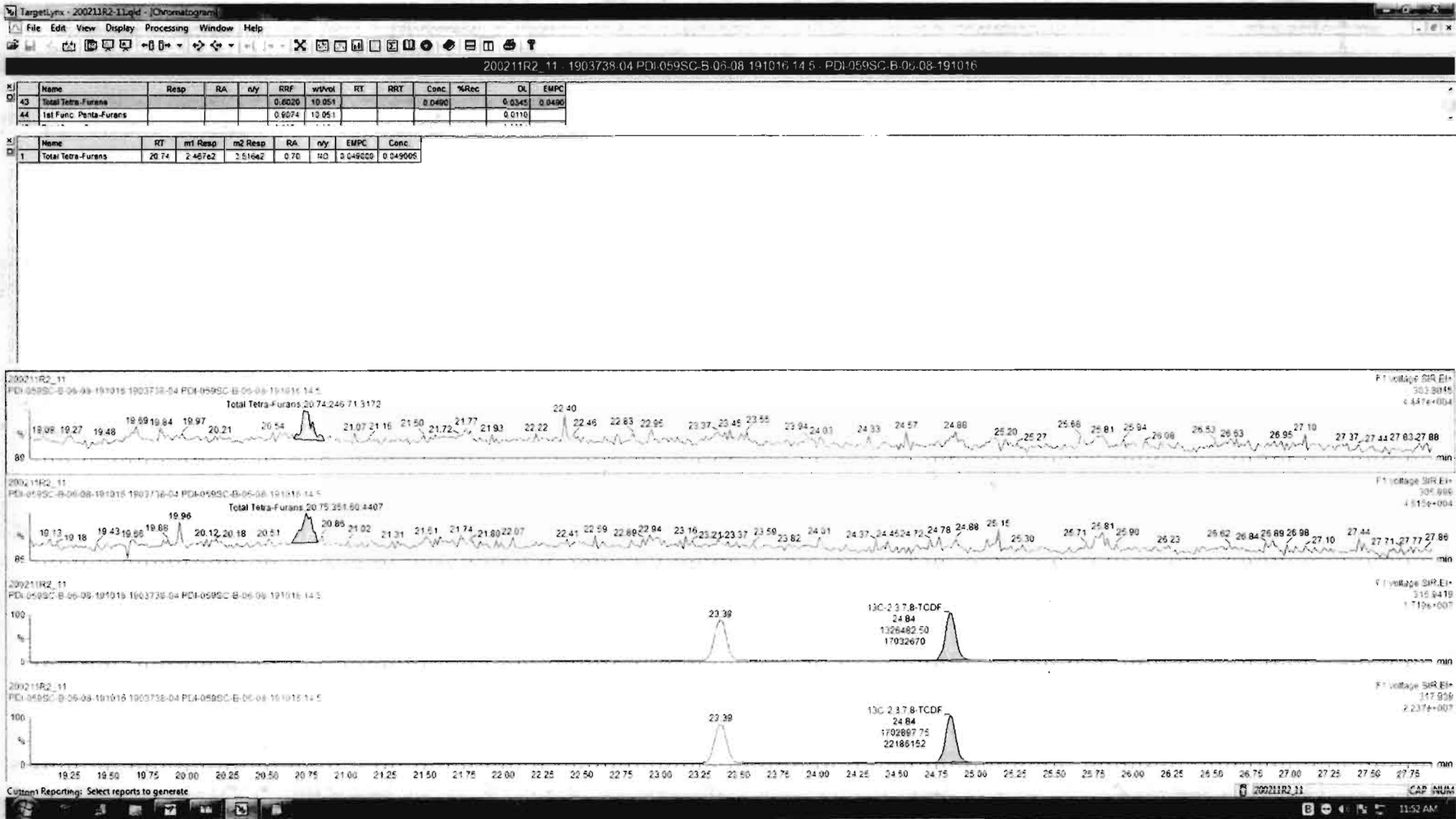


13C-2,3,7,8-TCDF



DPE1





Dataset: Untitled

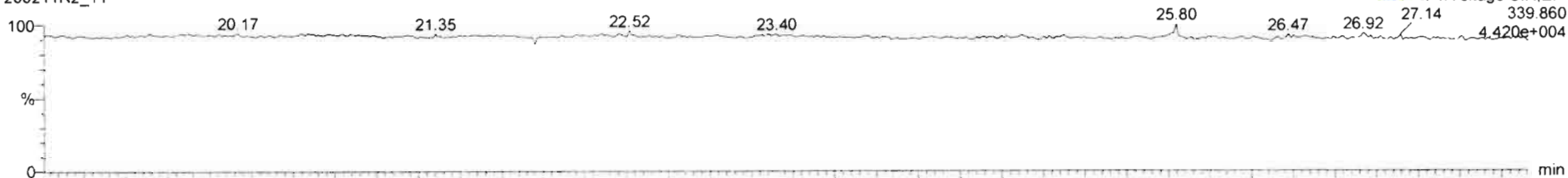
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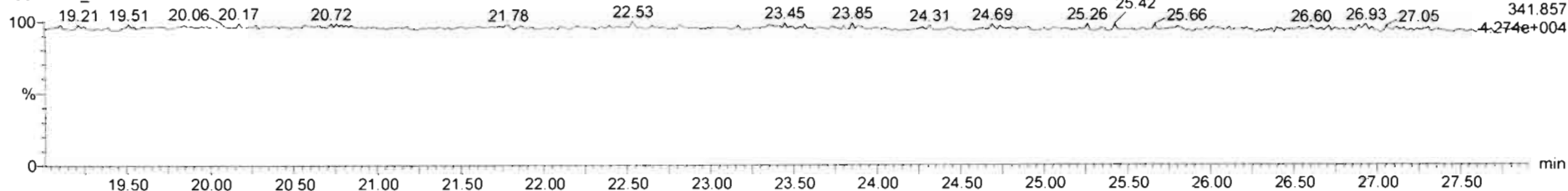
Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

1st Func. Penta-Furans

200211R2_11

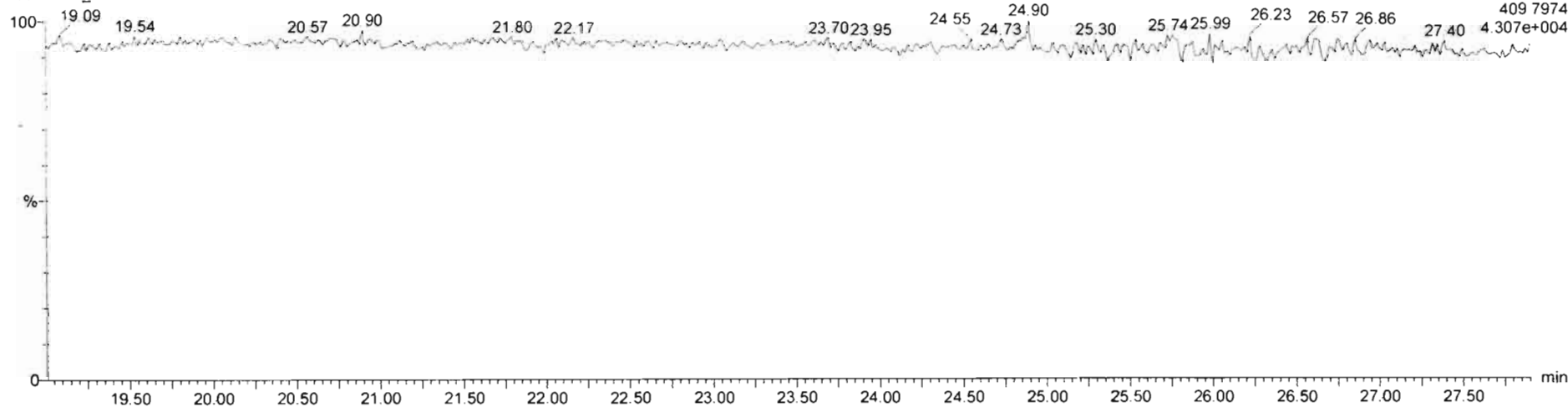


200211R2_11



DPE6

200211R2_11



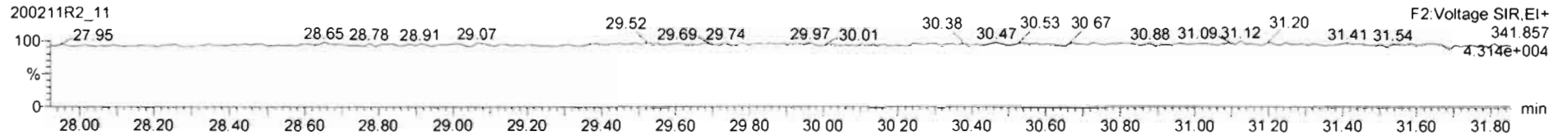
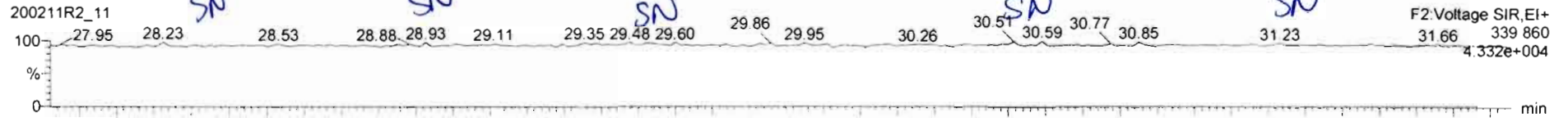
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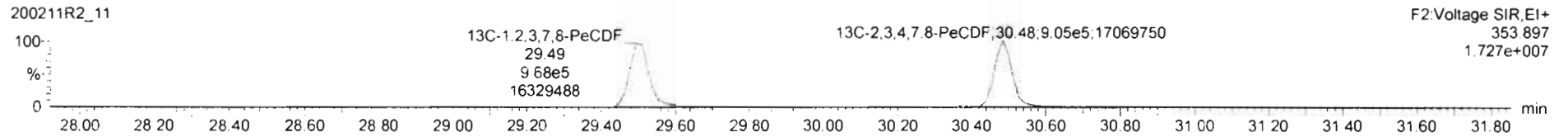
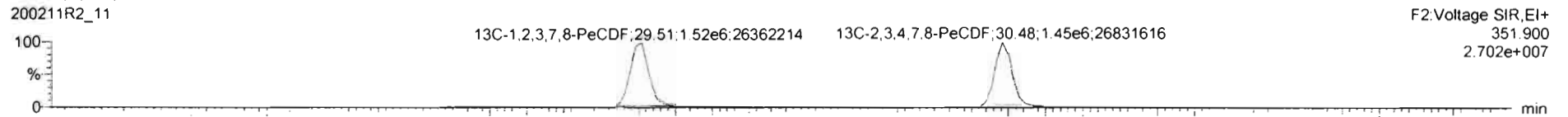
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

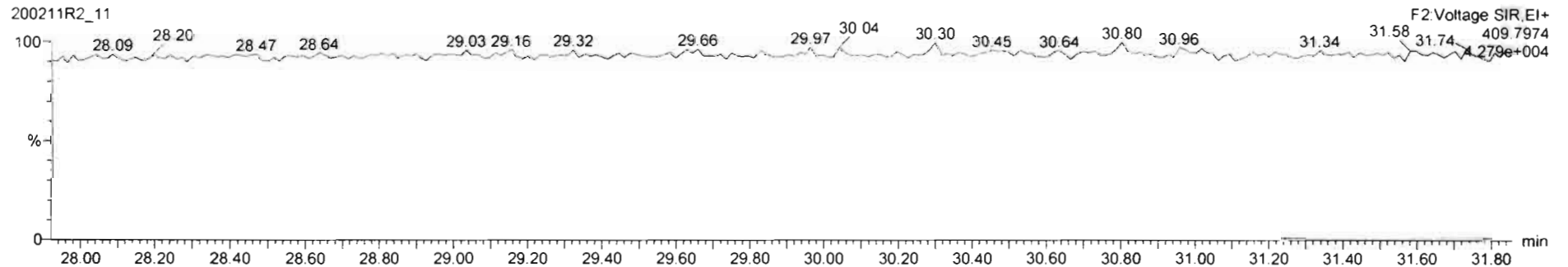
1,2,3,7,8-PeCDF

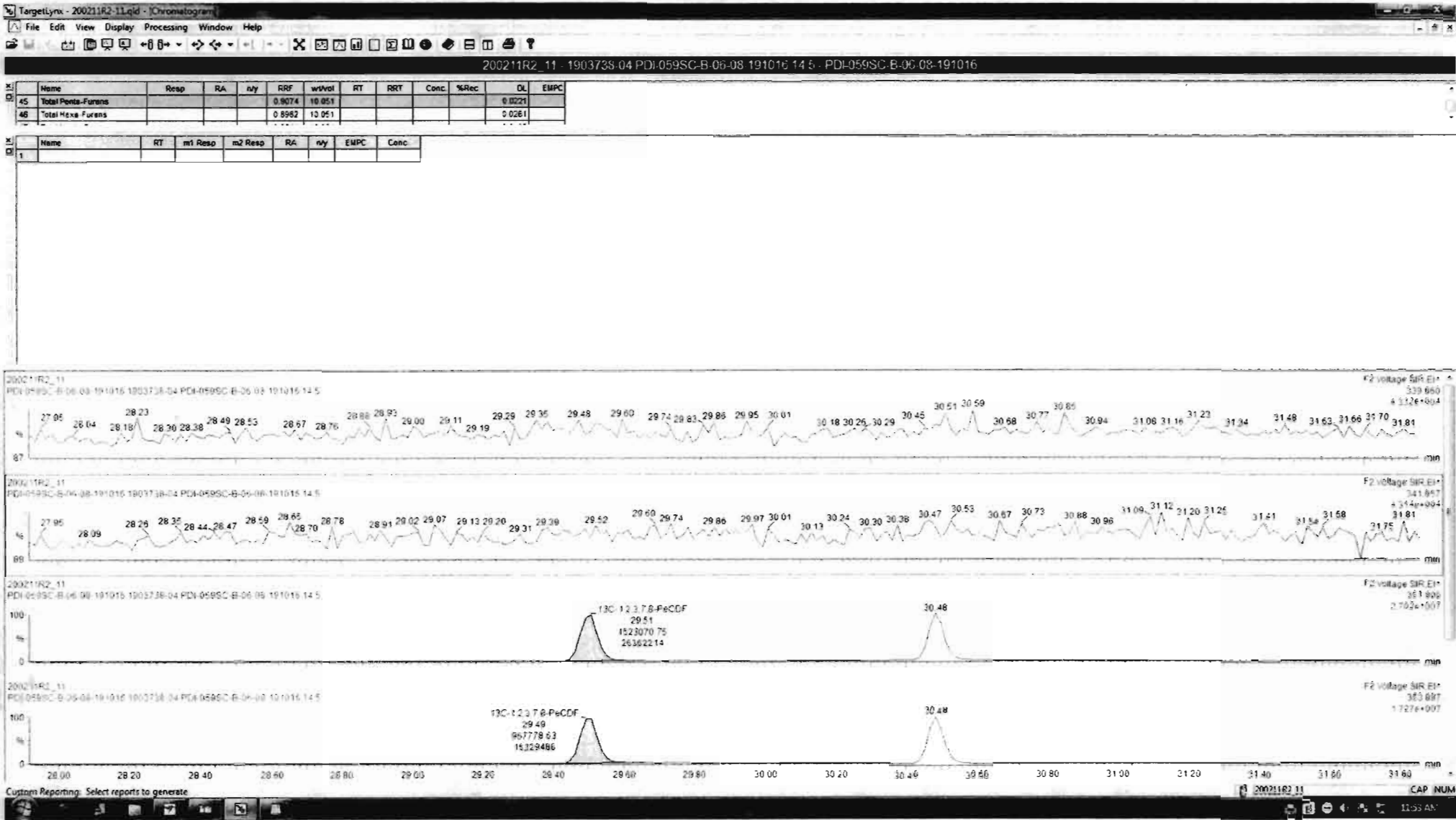


13C-1,2,3,7,8-PeCDF



DPE2



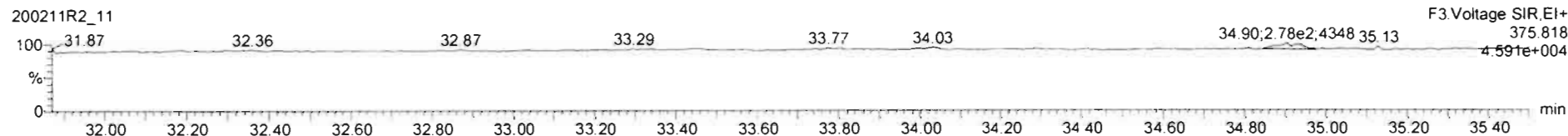
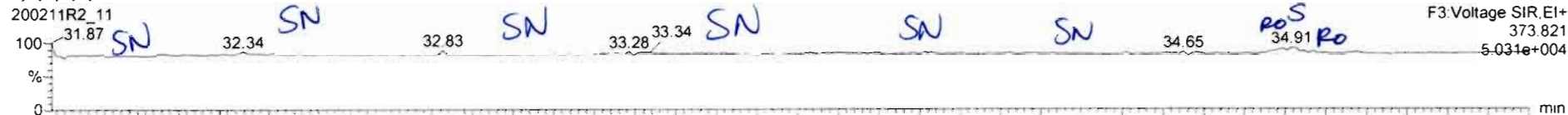


Dataset: Untitled

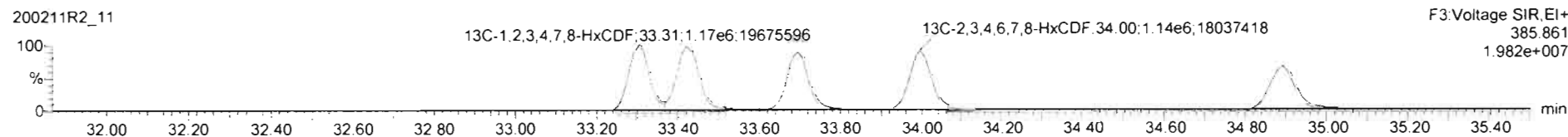
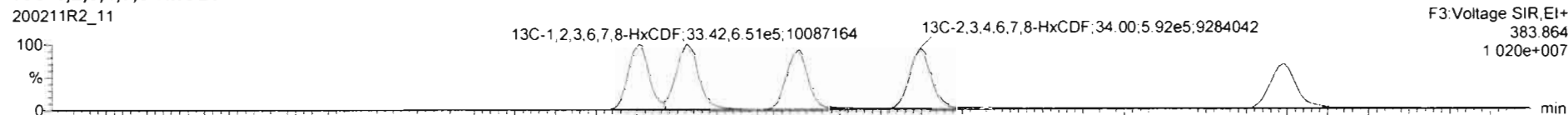
Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

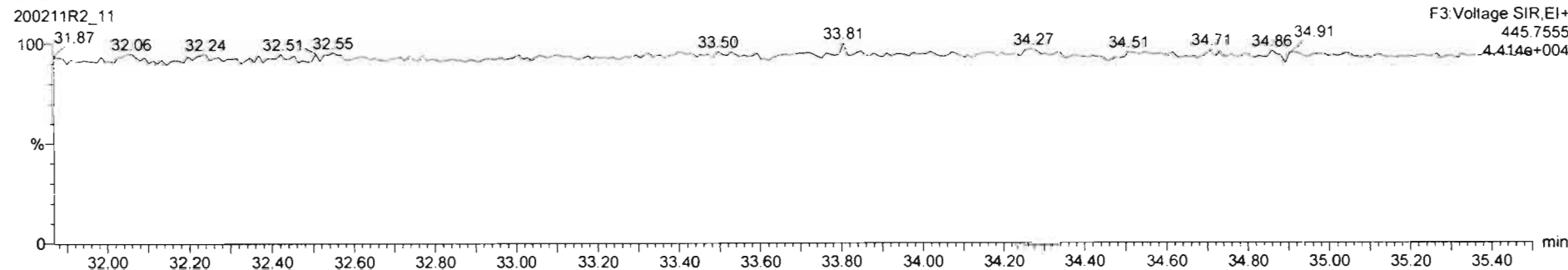
1,2,3,4,7,8-HxCDF



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



DPE3



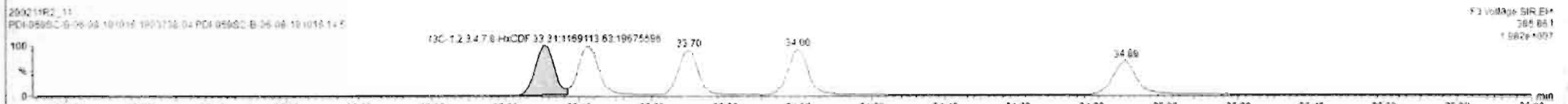
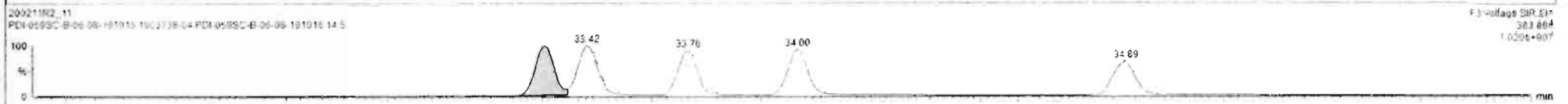
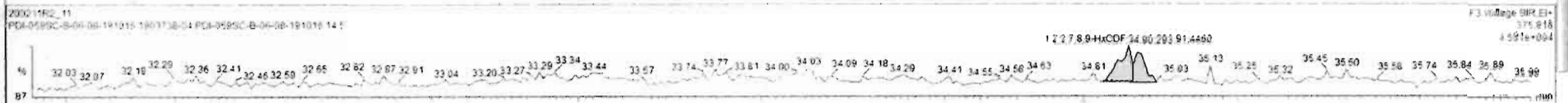
TargetLynx - 200211R2_11.qid - [Chromatogram]

File Edit View Display Processing Window Help

200211R2_11 - 1903738-04 PDI-059SC-B-06-08 191016 14 5 - PDI-059SC-B-06-08-191016

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans			0.9074	10.051				0.0221		
46	Total Hexa-Furans			0.8982	10.051			0.006	0.0261	0.0617	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.	
1	1.2.3.4.7.8-HxCDF	34.66	1.639e2	2.639e2	0.56	>YES	0.045944	0.00000
2	Total Hexa-Furans	34.91	1.583e2	1.243e2	1.60	>ES	0.035717	0.00000

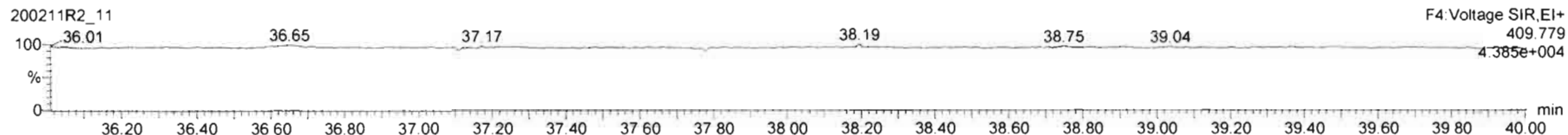
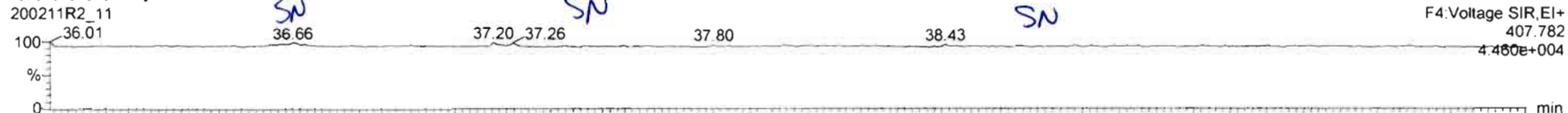


Dataset: Untitled

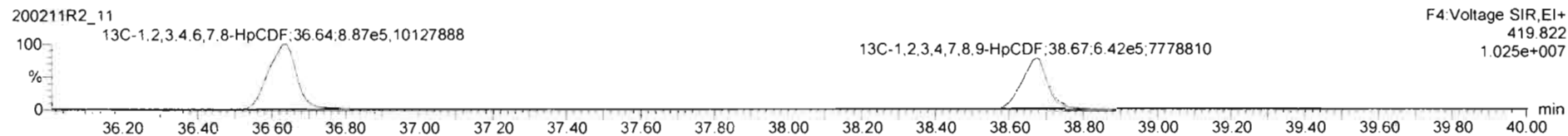
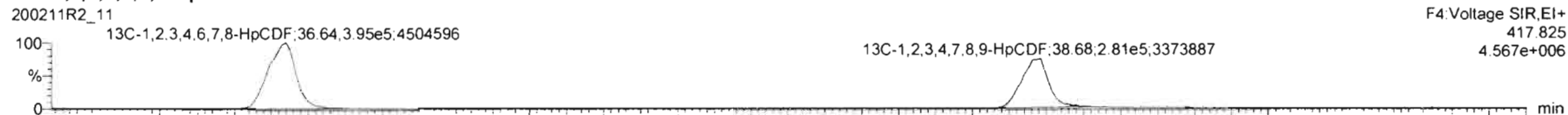
Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

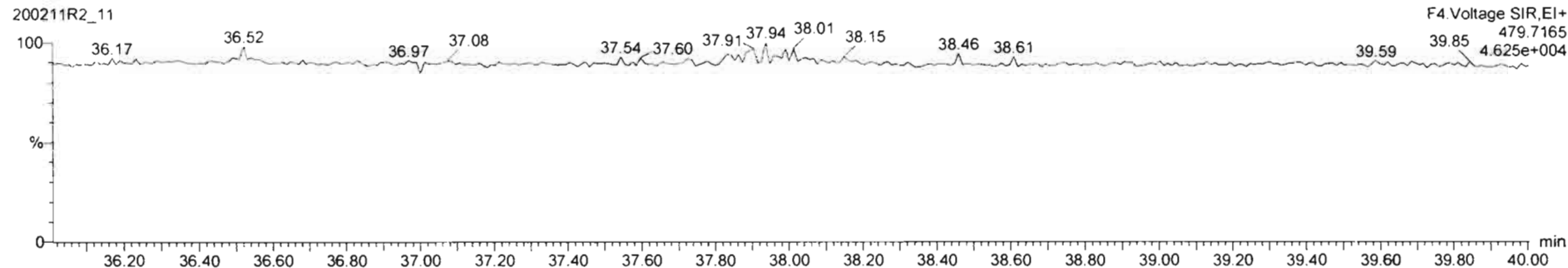
1,2,3,4,6,7,8-HpCDF

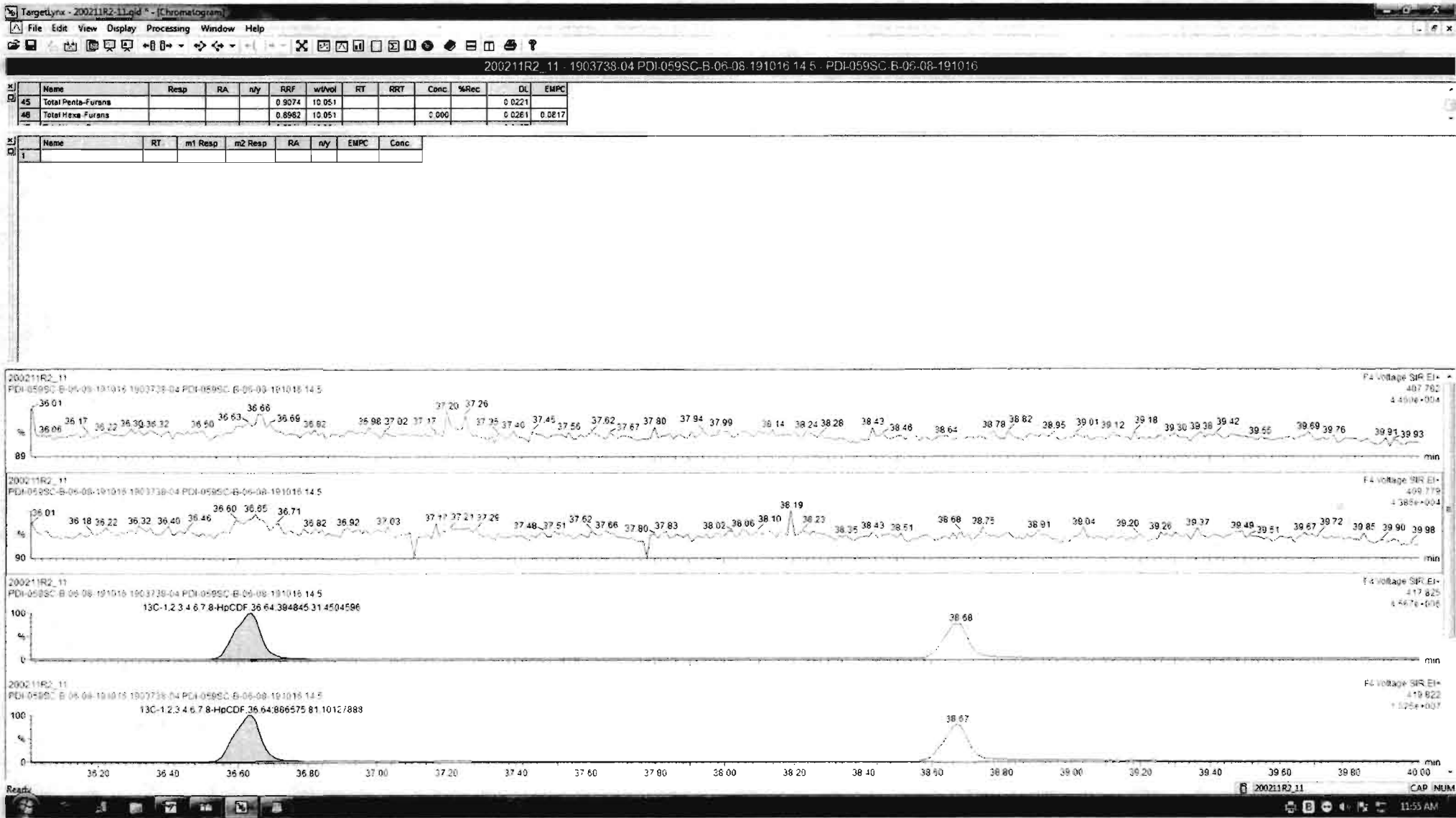


13C-1,2,3,4,6,7,8-HpCDF



DPE4





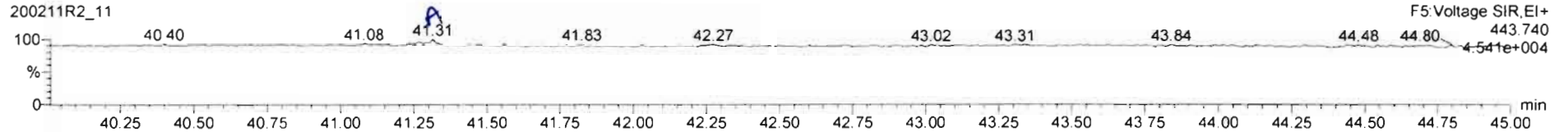
Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time

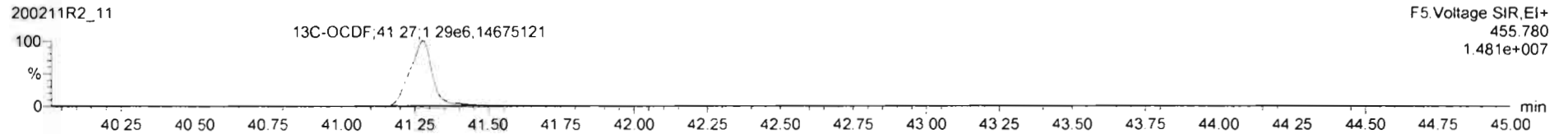
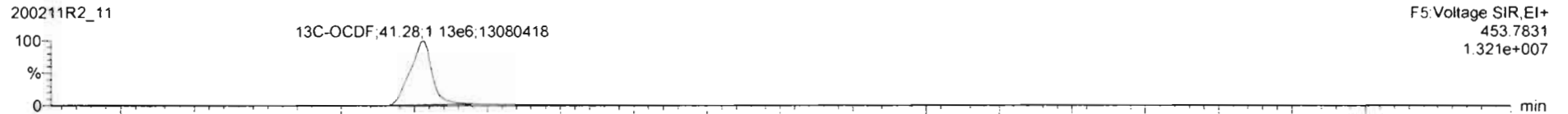
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

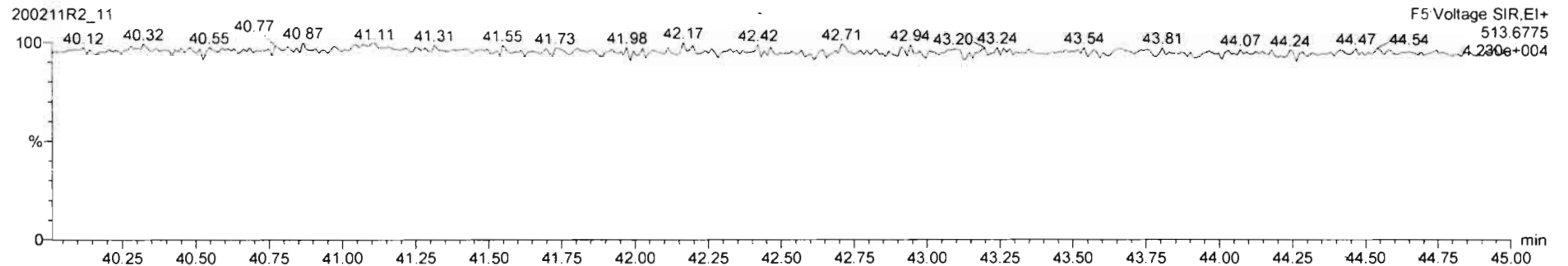
OCDF



13C-OCDF



DPE5



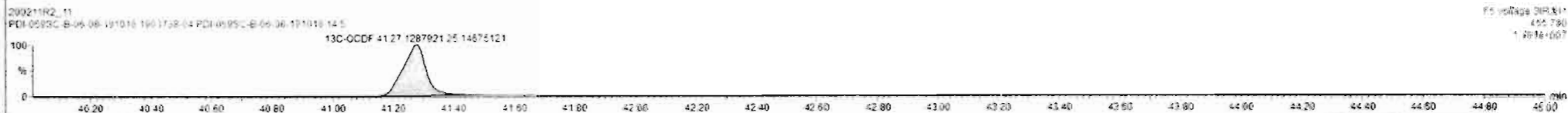
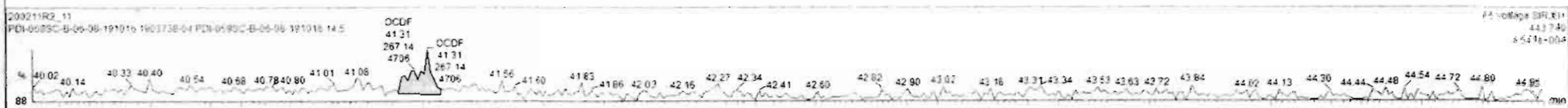
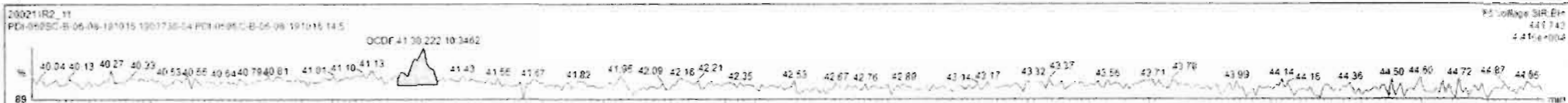
TargetLynx - 200211R2_11.qld - [Chromatogram]

File Edit View Display Processing Window Help

200211R2_11_1903738-04.PDI:059SC-B-06-08-191016-14.5 - PDI:059SC-B-06-08-191016

Name	Resp	RA	nly	RFI	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDP	4.89e2	0.83	ND	0.6055	10.951	41.30	1.001	0.100	0.0897	0.100

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1							



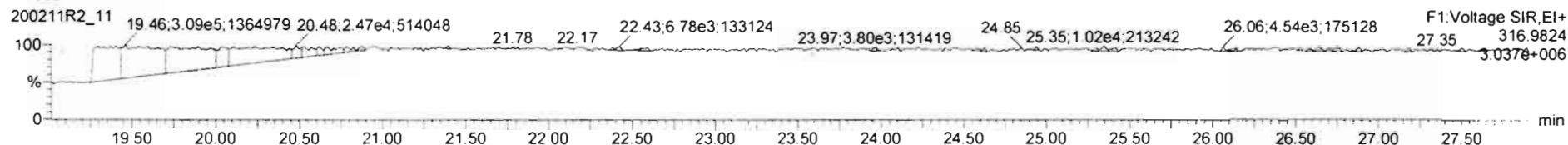
Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time

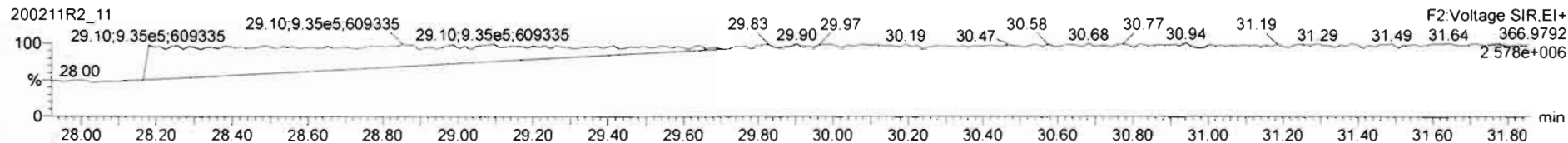
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_11, Date: 11-Feb-2020, Time: 23:49:29, ID: 1903738-04 PDI-059SC-B-06-08-191016 14.5, Description: PDI-059SC-B-06-08-191016

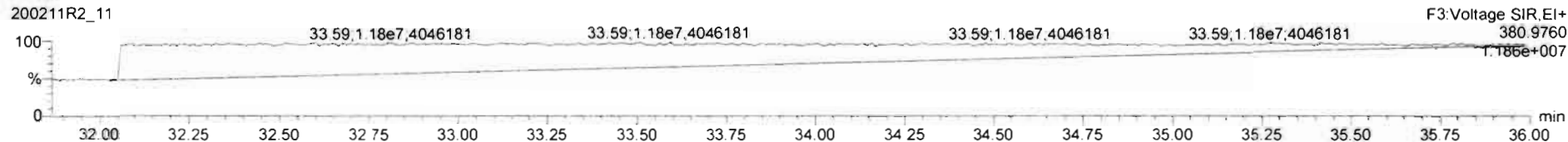
PFK1



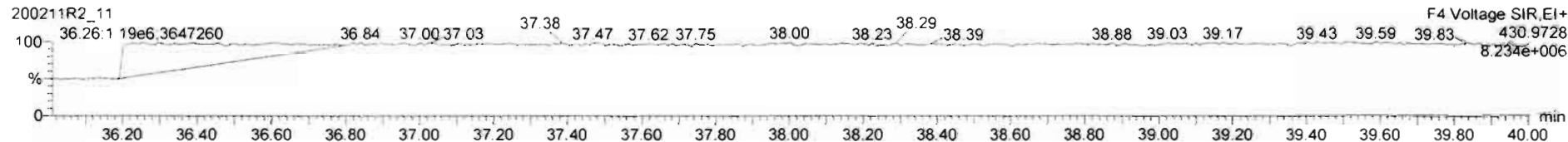
PFK2



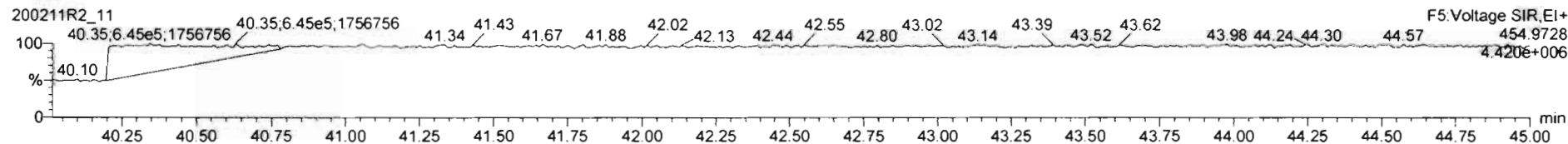
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200211R2\200211R2-13.qld

Last Altered: Friday, February 14, 2020 11:39:56 Pacific Standard Time

Printed: Friday, February 14, 2020 11:43:14 Pacific Standard Time

HN 02/14/2020
*E see dilution

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

C7 03/10/2020

Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	19955.187	0.768	NO	0.988	10.065	25.84	25.83	1.00	1.00	NO	2.020		0.159	2.020
2	2 1,2,3,7,8-PeCDD	23712.359	0.674	NO	0.972	10.065	30.84	30.83	1.00	1.00	NO	3.420		0.168	3.420
3	3 1,2,3,4,7,8-HxCDD	13280.369	1.353	NO	1.07	10.065	34.19	34.19	1.00	1.00	NO	3.779		0.362	3.779
4	4 1,2,3,6,7,8-HxCDD	98222.957	1.270	NO	0.921	10.065	34.28	34.31	1.00	1.00	NO	23.36		0.366	23.36
5	5 1,2,3,7,8,9-HxCDD	35175.643	1.242	NO	0.918	10.065	34.59	34.57	1.00	1.00	NO	8.986		0.368	8.986
6	6 1,2,3,4,6,7,8-HpCDD	4703567.0...	1.017	NO	0.923	10.065	38.09	38.09	1.00	1.00	NO	949.2		1.12	949.2
7	7 OCDD	50461788....	0.880	NO	0.975	10.065	41.11	41.13	1.00	1.00	NO	11180 E		1.16	11180
8	8 2,3,7,8-TCDF	3502317.3...	0.752	NO	0.802	10.065	24.91	24.91	1.00	1.00	NO	314.4 (282)		0.345	314.4
9	9 1,2,3,7,8-PeCDF	2638265.5...	1.533	NO	0.907	10.065	29.54	29.54	1.00	1.00	NO	417.3		0.497	417.3
10	10 2,3,4,7,8-PeCDF	2326262.3...	1.537	NO	0.952	10.065	30.53	30.51	1.00	1.00	NO	240.6		0.317	240.6
11	11 1,2,3,4,7,8-HxCDF	4980073.0...	1.184	NO	0.862	10.065	33.32	33.34	1.00	1.00	NO	752.8		0.281	752.8
12	12 1,2,3,6,7,8-HxCDF	1552286.3...	1.196	NO	0.841	10.065	33.45	33.45	1.00	1.00	NO	226.4		0.281	226.4
13	13 2,3,4,6,7,8-HxCDF	243230.633	1.181	NO	0.898	10.065	34.04	34.03	1.00	1.00	NO	49.87		0.432	49.87
14	14 1,2,3,7,8,9-HxCDF	156653.805	1.141	NO	0.858	10.065	34.90	34.94	1.00	1.00	NO	34.38		0.501	34.38
15	15 1,2,3,4,6,7,8-HpCDF	1899592.9...	0.988	NO	0.851	10.065	36.69	36.66	1.00	1.00	NO	406.1		0.583	406.1
16	16 1,2,3,4,7,8,9-HpCDF	538216.125	0.971	NO	0.980	10.065	38.68	38.69	1.00	1.00	NO	135.9		0.641	135.9
17	17 OCDF	3687172.5...	0.857	NO	0.806	10.065	41.29	41.31	1.00	1.00	NO	911.1		0.558	911.1
18	18 13C-2,3,7,8-TCDD	1986498.6...	0.797	NO	1.20	10.065	25.80	25.81	1.03	1.03	NO	163.9	82.5	0.653	
19	19 13C-1,2,3,7,8-PeCDD	1417120.7...	0.637	NO	0.967	10.065	30.56	30.82	1.22	1.23	NO	145.0	73.0	0.164	
20	20 13C-1,2,3,4,7,8-HxCDD	652099.438	1.252	NO	0.874	10.065	34.18	34.18	1.01	1.01	NO	75.34	37.9	0.245	
21	21 13C-1,2,3,6,7,8-HxCDD	907079.250	1.264	NO	1.05	10.065	34.28	34.28	1.02	1.02	NO	87.58	44.1	0.205	
22	22 13C-1,2,3,7,8,9-HxCDD	847093.156	1.273	NO	0.974	10.065	34.59	34.55	1.03	1.02	NO	87.78	44.2	0.220	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1066650.7...	1.043	NO	0.747	10.065	38.16	38.08	1.13	1.13	NO	144.1	72.5	0.255	
24	24 13C-OCDD	1840986.7...	0.902	NO	0.707	10.065	41.06	41.11	1.22	1.22	NO	263.1	66.2	0.286	
25	25 13C-2,3,7,8-TCDF	2760367.5...	0.785	NO	1.07	10.065	24.98	24.88	0.99	0.99	NO	166.4	83.7	0.660	
26	26 13C-1,2,3,7,8-PeCDF	1384539.1...	1.580	NO	1.00	10.065	29.33	29.52	1.17	1.17	NO	88.74	44.7	0.246	
27	27 13C-2,3,4,7,8-PeCDF	2018641.5...	1.664	NO	0.962	10.065	30.55	30.50	1.21	1.21	NO	134.8	67.8	0.256	
28	28 13C-1,2,3,4,7,8-HxCDF	1524516.3...	0.509	NO	1.05	10.065	33.31	33.32	0.99	0.99	NO	146.7	73.8	0.246	
29	29 13C-1,2,3,6,7,8-HxCDF	1619187.2...	0.514	NO	1.19	10.065	33.41	33.44	0.99	0.99	NO	137.4	69.1	0.217	
30	30 13C-2,3,4,6,7,8-HxCDF	1079045.1...	0.513	NO	1.07	10.065	34.02	34.01	1.01	1.01	NO	102.2	51.4	0.242	
31	31 13C-1,2,3,7,8,9-HxCDF	1055437.3...	0.519	NO	0.922	10.065	34.92	34.90	1.04	1.04	NO	115.5	58.1	0.280	

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-13.qld

Last Altered: Friday, February 14, 2020 11:39:56 Pacific Standard Time
Printed: Friday, February 14, 2020 11:43:14 Pacific Standard Time

Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1092212.1...	0.432	NO	0.767	10.065	36.68	36.65	1.09	1.09	NO	143.7	72.3	0.294	
33	33 13C-1,2,3,4,7,8,9-HpCDF	802945.360	0.447	NO	0.552	10.065	38.70	38.68	1.15	1.15	NO	146.8	73.9	0.408	
34	34 13C-OCDF	1996598.4...	0.864	NO	0.789	10.065	41.29	41.29	1.23	1.22	NO	255.4	64.3	0.228	
35	35 37Cl-2,3,7,8-TCDD	787148.563			1.18	10.065	25.83	25.83	1.03	1.03	NO	66.19	83.3	0.206	
36	36 13C-1,2,3,4-TCDD	2008980.3...	0.814	NO	1.00	10.065	25.11	25.15	1.00	1.00	NO	198.7	100	0.783	
37	37 13C-1,2,3,4-TCDF	3094764.8...	0.795	NO	1.00	10.065	23.37	23.43	1.00	1.00	NO	198.7	100	0.703	
38	38 13C-1,2,3,4,6,9-HxCDF	1967973.3...	0.509	NO	1.00	10.065	33.71	33.71	1.00	1.00	NO	198.7	100	0.258	
39	39 Total Tetra-Dioxins				0.988	10.065	24.62		0.00		NO	19.57		0.159	21.65
40	40 Total Penta-Dioxins				0.972	10.065	29.96		0.00		NO	25.93		0.168	26.55
41	41 Total Hexa-Dioxins				0.921	10.065	33.63		0.00		NO	334.2		0.381	334.2
42	42 Total Hepta-Dioxins				0.923	10.065	37.64		0.00		NO	2214		1.12	2214
43	43 Total Tetra-Furans				0.802	10.065	23.61		0.00		NO	947.1		0.345	977.0
44	44 1st Func. Penta-Furans				0.907	10.065	27.09		0.00		NO	66.20		0.0722	66.20
45	45 Total Penta-Furans				0.907	10.065	29.27		0.00		NO	1187		0.399	1190
46	46 Total Hexa-Furans				0.898	10.065	33.56		0.00		NO	1372		0.343	1416
47	47 Total Hepta-Furans				0.851	10.065	37.83		0.00		NO	1112		0.649	1112

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-13.qld

Last Altered: Friday, February 14, 2020 11:39:56 Pacific Standard Time

Printed: Friday, February 14, 2020 11:43:27 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	7.09e4	1.99e6	0.796	NO	24.62	21.78	7.180	7.180
2	39 Total Tetra-Dioxins	1.90e4	1.99e6	0.781	NO	24.62	22.19	1.921	1.921
3	39 Total Tetra-Dioxins	9.09e3	1.99e6	0.798	NO	24.62	22.71	0.9205	0.9205
4	39 Total Tetra-Dioxins	0.00e0	1.99e6	0.968	YES	24.62	23.62	0.0000	0.3981
5	39 Total Tetra-Dioxins	1.69e4	1.99e6	0.826	NO	24.62	23.86	1.715	1.715
6	39 Total Tetra-Dioxins	1.51e4	1.99e6	0.865	NO	24.62	24.09	1.526	1.526
7	39 Total Tetra-Dioxins	0.00e0	1.99e6	0.983	YES	24.62	24.30	0.0000	0.5319
8	39 Total Tetra-Dioxins	4.22e3	1.99e6	0.787	NO	24.62	24.58	0.4273	0.4273
9	39 Total Tetra-Dioxins	6.81e3	1.99e6	0.741	NO	24.62	24.76	0.6896	0.6896
10	39 Total Tetra-Dioxins	5.82e3	1.99e6	0.738	NO	24.62	25.14	0.5892	0.5892
11	39 Total Tetra-Dioxins	2.10e3	1.99e6	0.872	NO	24.62	25.29	0.2128	0.2128
12	39 Total Tetra-Dioxins	2.08e4	1.99e6	0.807	NO	24.62	25.56	2.107	2.107
13	39 Total Tetra-Dioxins	2.56e3	1.99e6	0.843	NO	24.62	25.69	0.2594	0.2594
14	1 2,3,7,8-TCDD	2.00e4	1.99e6	0.768	NO	25.84	25.83	2.020	2.020
15	39 Total Tetra-Dioxins	0.00e0	1.99e6	0.914	YES	24.62	26.15	0.0000	0.7298
16	39 Total Tetra-Dioxins	0.00e0	1.99e6	1.261	YES	24.62	26.27	0.0000	0.2155
17	39 Total Tetra-Dioxins	0.00e0	1.99e6	0.477	YES	24.62	26.78	0.0000	0.2110

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-13.qld

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Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	5.47e4	1.42e6	0.660	NO	29.96	28.61	7.886	7.886
2	40 Total Penta-Dioxins	1.29e4	1.42e6	0.670	NO	29.96	29.08	1.859	1.859
3	40 Total Penta-Dioxins	2.16e4	1.42e6	0.647	NO	29.96	29.58	3.115	3.115
4	40 Total Penta-Dioxins	1.51e4	1.42e6	0.634	NO	29.96	29.75	2.174	2.174
5	40 Total Penta-Dioxins	8.85e3	1.42e6	0.656	NO	29.96	29.84	1.276	1.276
6	40 Total Penta-Dioxins	2.76e4	1.42e6	0.581	NO	29.96	30.06	3.986	3.986
7	40 Total Penta-Dioxins	0.00e0	1.42e6	3.709	YES	29.96	30.44	0.0000	0.6214
8	2 1,2,3,7,8-PeCDD	2.37e4	1.42e6	0.674	NO	30.84	30.83	3.420	3.420
9	40 Total Penta-Dioxins	8.17e3	1.42e6	0.687	NO	29.96	30.90	1.178	1.178
10	40 Total Penta-Dioxins	7.16e3	1.42e6	0.577	NO	29.96	31.22	1.033	1.033

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	4.92e5	0.00e0	1.231	NO	33.63	32.72	132.3	132.3
2	41 Total Hexa-Dioxins	6.47e4	0.00e0	1.215	NO	33.63	33.27	17.39	17.39
3	41 Total Hexa-Dioxins	5.00e5	0.00e0	1.212	NO	33.63	33.52	134.4	134.4
4	41 Total Hexa-Dioxins	2.84e4	0.00e0	1.218	NO	33.63	33.64	7.642	7.642
5	3 1,2,3,4,7,8-HxCDD	1.33e4	6.52e5	1.353	NO	34.19	34.19	3.779	3.779
6	4 1,2,3,6,7,8-HxCDD	9.82e4	9.07e5	1.270	NO	34.28	34.31	23.36	23.36
7	41 Total Hexa-Dioxins	2.35e4	0.00e0	1.242	NO	33.63	34.48	6.313	6.313
8	5 1,2,3,7,8,9-HxCDD	3.52e4	8.47e5	1.242	NO	34.59	34.57	8.986	8.986

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	6.27e6	1.07e6	1.017	NO	37.64	37.05	1265	1265
2	6 1,2,3,4,6,7,8-HpCDD	4.70e6	1.07e6	1.017	NO	38.09	38.09	949.2	949.2

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Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	1.06e4	2.76e6	0.791	NO	23.61	19.72	0.9504	0.9504
2	43 Total Tetra-Furans	4.51e4	2.76e6	0.816	NO	23.61	20.24	4.050	4.050
3	43 Total Tetra-Furans	8.94e5	2.76e6	0.745	NO	23.61	20.81	80.26	80.26
4	43 Total Tetra-Furans	1.41e5	2.76e6	0.758	NO	23.61	21.38	12.70	12.70
5	43 Total Tetra-Furans	8.92e5	2.76e6	0.757	NO	23.61	21.75	80.03	80.03
6	43 Total Tetra-Furans	2.51e5	2.76e6	0.739	NO	23.61	22.22	22.55	22.55
7	43 Total Tetra-Furans	2.00e4	2.76e6	0.737	NO	23.61	22.37	1.796	1.796
8	43 Total Tetra-Furans	1.65e5	2.76e6	0.744	NO	23.61	22.61	14.82	14.82
9	43 Total Tetra-Furans	3.16e4	2.76e6	0.778	NO	23.61	23.03	2.837	2.837
10	43 Total Tetra-Furans	1.34e4	2.76e6	0.741	NO	23.61	23.18	1.205	1.205
11	43 Total Tetra-Furans	6.84e5	2.76e6	0.745	NO	23.61	23.45	61.38	61.38
12	43 Total Tetra-Furans	3.33e6	2.76e6	0.752	NO	23.61	23.97	298.9	298.9
13	43 Total Tetra-Furans	1.21e5	2.76e6	0.754	NO	23.61	24.25	10.82	10.82
14	43 Total Tetra-Furans	2.75e4	2.76e6	0.751	NO	23.61	24.48	2.470	2.470
15	43 Total Tetra-Furans	3.39e4	2.76e6	0.778	NO	23.61	24.69	3.039	3.039
16	8 2,3,7,8-TCDF	3.50e6	2.76e6	0.752	NO	24.91	24.91	314.4	314.4
17	43 Total Tetra-Furans	1.44e5	2.76e6	0.743	NO	23.61	25.29	12.90	12.90
18	43 Total Tetra-Furans	3.40e4	2.76e6	0.719	NO	23.61	25.54	3.048	3.048
19	43 Total Tetra-Furans	0.00e0	2.76e6	2.035	YES	23.61	26.38	0.0000	0.4942
20	43 Total Tetra-Furans	0.00e0	2.76e6	2.691	YES	23.61	26.63	0.0000	0.2493
21	43 Total Tetra-Furans	2.12e5	2.76e6	0.748	NO	23.61	24.79	19.04	19.04
22	43 Total Tetra-Furans	0.00e0	2.76e6	0.981	YES	23.61	26.93	0.0000	29.10

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	5.14e5	0.00e0	1.605	NO	27.09	26.95	66.12	66.12
2	44 1st Func. Penta-Fura...	6.80e2	0.00e0	1.392	NO	27.09	27.32	0.08745	0.08745

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Penta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	6.26e4	0.00e0	1.424	NO	29.27	28.41	8.052	8.052
2	45 Total Penta-Furans	2.22e6	0.00e0	1.515	NO	29.27	28.55	286.3	286.3
3	45 Total Penta-Furans	1.78e5	0.00e0	1.619	NO	29.27	29.13	22.86	22.86
4	45 Total Penta-Furans	4.46e5	0.00e0	1.484	NO	29.27	29.35	57.44	57.44
5	9 1,2,3,7,8-PeCDF	2.64e6	1.38e6	1.533	NO	29.54	29.54	417.3	417.3
6	45 Total Penta-Furans	1.08e6	0.00e0	1.536	NO	29.27	29.80	139.0	139.0
7	45 Total Penta-Furans	8.22e3	0.00e0	1.684	NO	29.27	30.30	1.058	1.058
8	45 Total Penta-Furans	0.00e0	0.00e0	1.810	YES	29.27	30.41	0.0000	2.679
9	10 2,3,4,7,8-PeCDF	2.33e6	2.02e6	1.537	NO	30.53	30.51	240.6	240.6
10	45 Total Penta-Furans	1.15e5	0.00e0	1.529	NO	29.27	31.46	14.82	14.82

Hexa-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	1.85e5	0.00e0	1.220	NO	33.56	32.17	31.06	31.06
2	46 Total Hexa-Furans	8.19e5	0.00e0	1.195	NO	33.56	32.34	137.3	137.3
3	46 Total Hexa-Furans	1.37e4	0.00e0	1.143	NO	33.56	32.70	2.300	2.300
4	46 Total Hexa-Furans	7.62e5	0.00e0	1.199	NO	33.56	32.88	127.7	127.7
5	46 Total Hexa-Furans	4.18e4	0.00e0	1.110	NO	33.56	33.23	7.014	7.014
6	11 1,2,3,4,7,8-HxCDF	4.98e6	1.52e6	1.184	NO	33.32	33.34	752.8	752.8
7	12 1,2,3,6,7,8-HxCDF	1.55e6	1.62e6	1.196	NO	33.45	33.45	226.4	226.4
8	46 Total Hexa-Furans	1.97e4	0.00e0	1.099	NO	33.56	33.72	3.300	3.300
9	46 Total Hexa-Furans	0.00e0	0.00e0	0.863	YES	33.56	33.82	0.0000	0.5739
10	13 2,3,4,6,7,8-HxCDF	2.43e5	1.08e6	1.181	NO	34.04	34.03	49.87	49.87
11	14 1,2,3,7,8,9-HxCDF	1.57e5	1.06e6	1.141	NO	34.90	34.94	34.38	34.38
12	46 Total Hexa-Furans	0.00e0	0.00e0	1.196	NO	33.56	34.95	0.0000	43.00

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-13.qld

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Hepta-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	1.90e6	1.09e6	0.988	NO	36.69	36.66	406.1	406.1
2	47 Total Hepta-Furans	2.91e4	0.00e0	0.929	NO	37.83	37.04	7.167	7.167
3	47 Total Hepta-Furans	2.28e6	0.00e0	0.994	NO	37.83	37.26	562.4	562.4
4	16 1,2,3,4,7,8,9-HpCDF	5.38e5	8.03e5	0.971	NO	38.68	38.69	135.9	135.9

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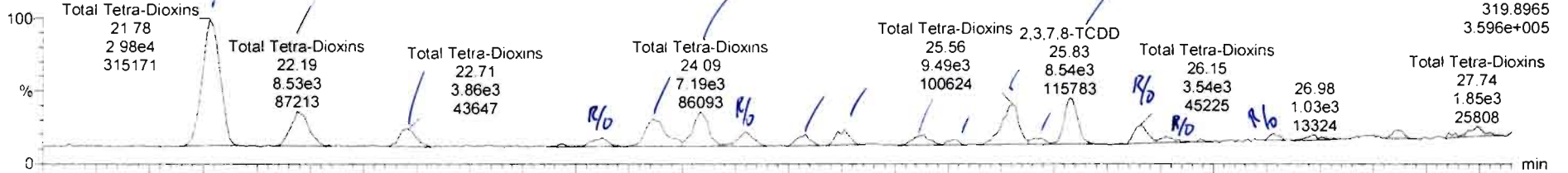
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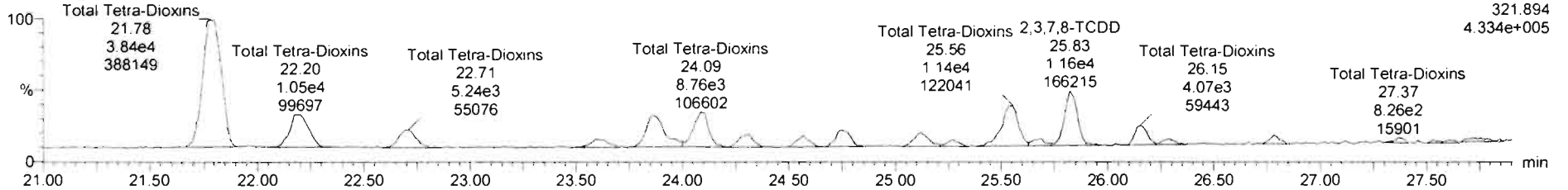
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2,3,7,8-TCDD

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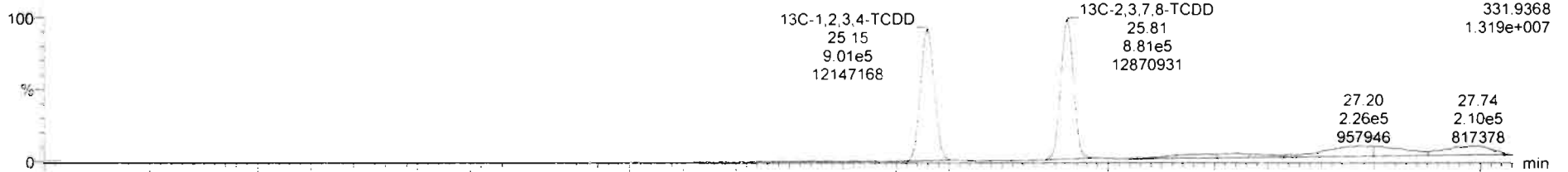


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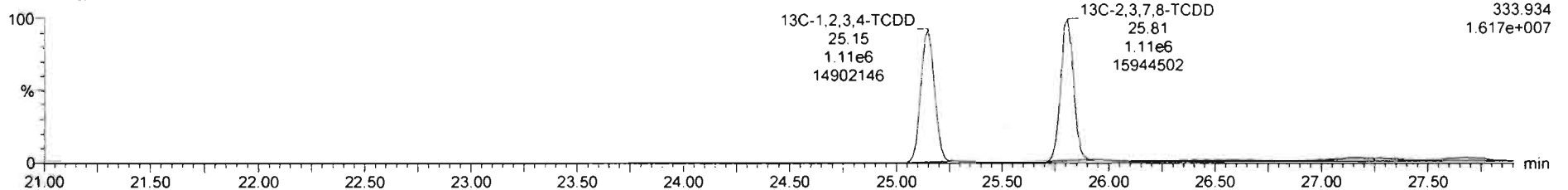


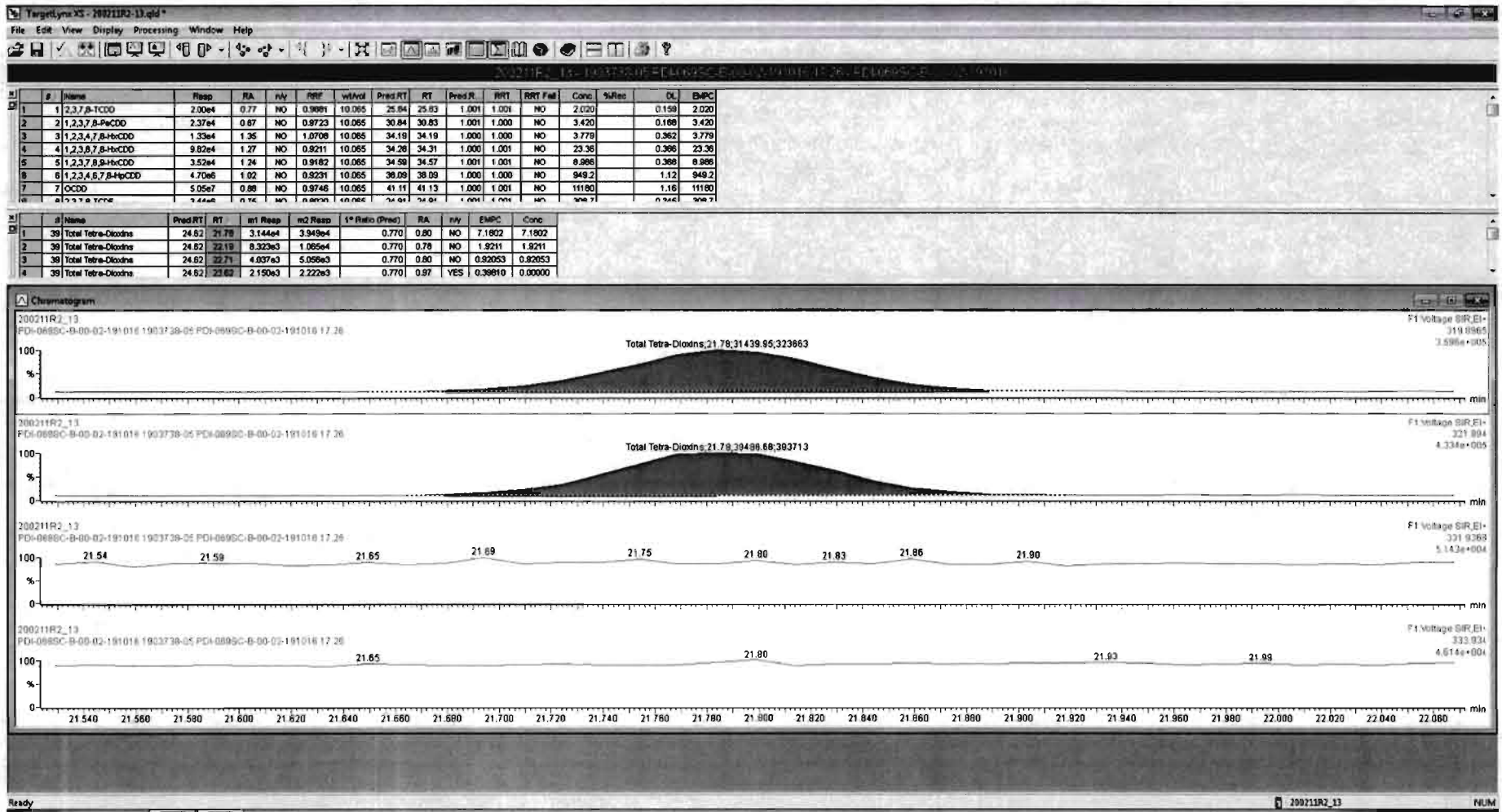
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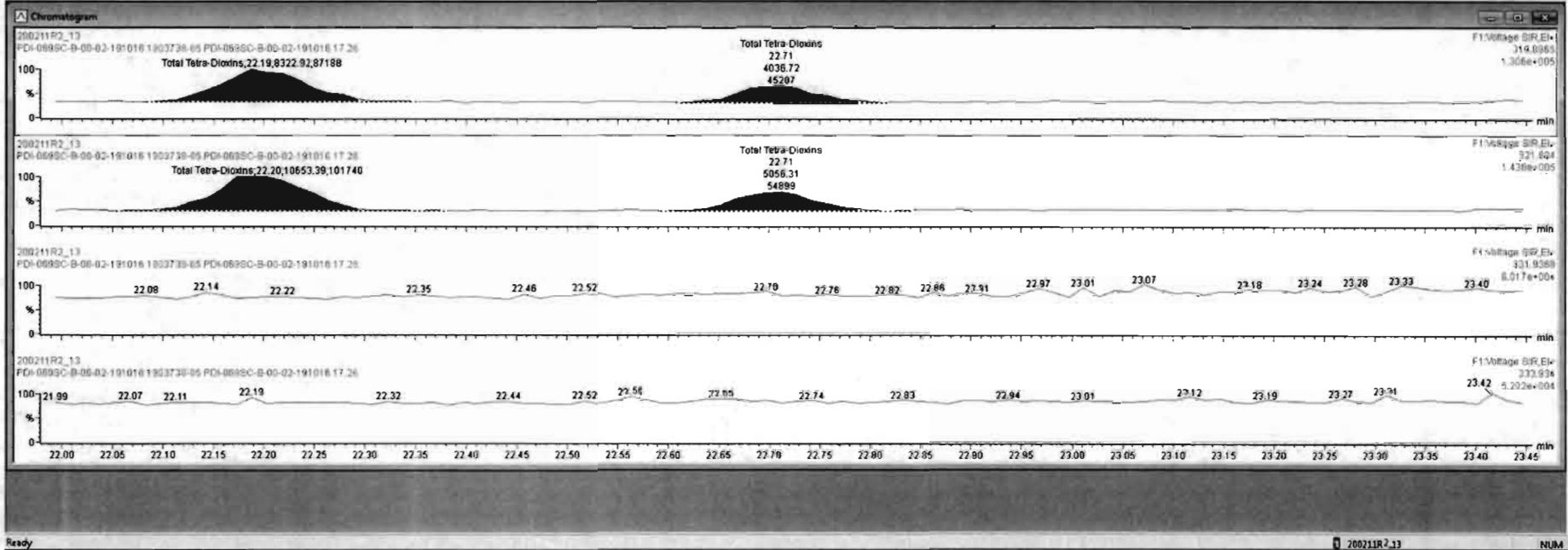






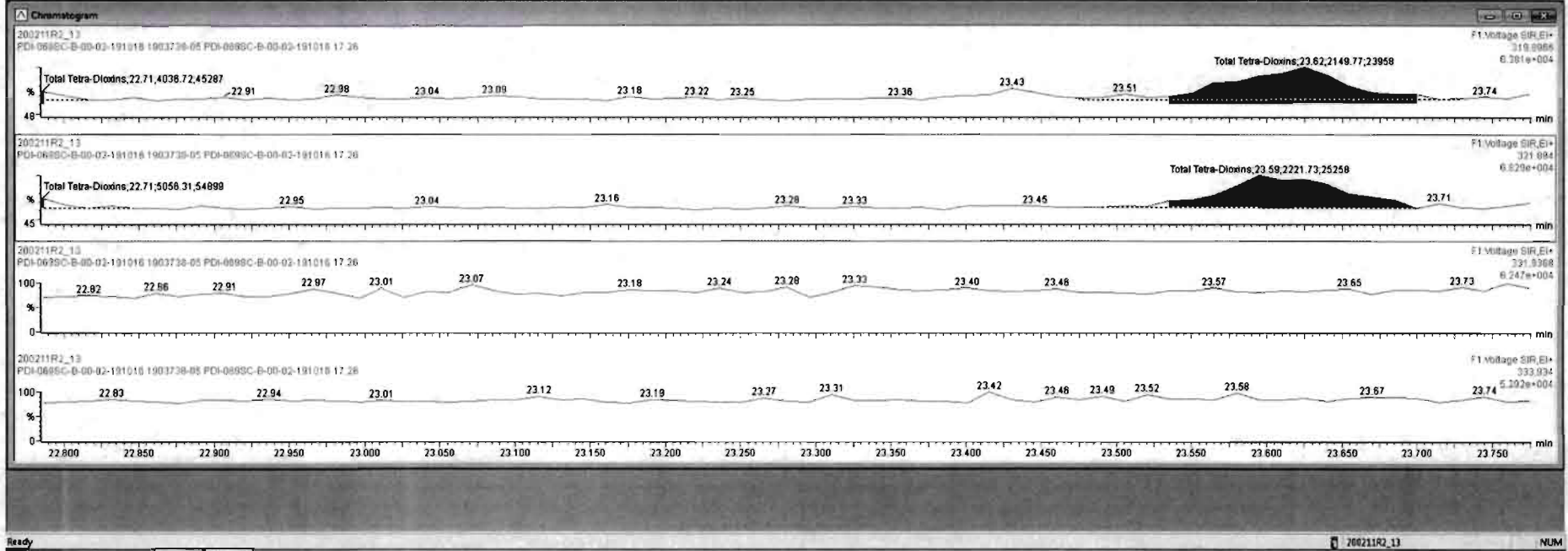
#	Name	Resp	RA	n/y	RF	WVol	Pred RT	RT	Pred.R	RR1	RR1 Fail	Cont	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	2.00e4	0.77	NO	0.9891	10.065	25.84	25.83	1.001	1.001	NO	2.020	0.159	2.020	
2	1,2,3,7,8-PeCDD	2.37e4	0.87	NO	0.8723	10.065	30.84	30.83	1.001	1.000	NO	3.420	0.168	3.420	
3	1,2,3,4,7,8-HxCDD	1.33e4	1.35	NO	1.0708	10.065	34.19	34.19	1.000	1.000	NO	3.779	0.362	3.779	
4	1,2,3,6,7,8-HxCDD	8.82e4	1.27	NO	0.8211	10.065	34.28	34.31	1.000	1.001	NO	23.36	0.366	23.36	
5	1,2,3,7,8,9-HxCDD	3.52e4	1.24	NO	0.8182	10.065	34.59	34.57	1.001	1.001	NO	8.986	0.368	8.986	
6	1,2,3,4,6,7,8-HpCDD	4.70e5	1.02	NO	0.8231	10.065	38.09	38.09	1.000	1.000	NO	949.2	1.12	949.2	
7	OCDD	5.05e7	0.88	NO	0.8745	10.065	41.11	41.13	1.000	1.001	NO	11180	1.16	11180	

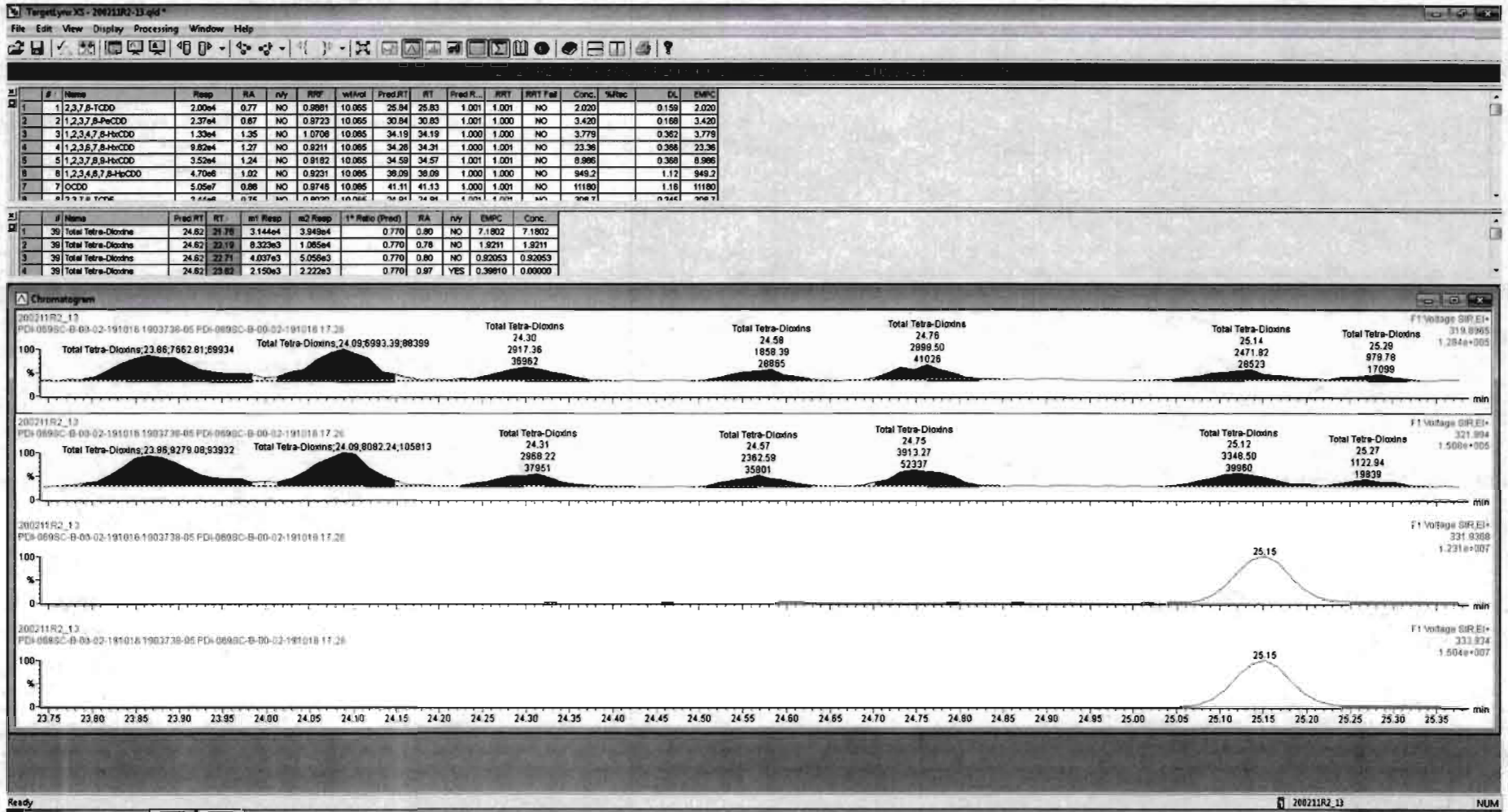
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	30 Total Tetra-Dioxins	24.62	21.78	3.144e4	3.949e4	0.770	0.80	NO	7.1802	7.1802
2	30 Total Tetra-Dioxins	24.62	22.19	8.223e3	1.055e4	0.770	0.78	NO	1.8211	1.8211
3	30 Total Tetra-Dioxins	24.62	22.71	4.037e3	5.056e3	0.770	0.80	NO	0.82053	0.82053
4	30 Total Tetra-Dioxins	24.62	23.82	2.150e3	2.222e3	0.770	0.97	YES	0.39810	0.00000



#	Name	Resp	RA	n/y	RRF	wtAval	Pred.RT	RT	Pred.R	RRT	RRT/Fac	Conc.	%Rec	DL	EMPC
1	1,2,3,7,8-TCDD	2.00e4	0.77	NO	0.9681	10.065	25.84	25.83	1.001	1.001	NO	2.020		0.159	2.020
2	1,2,3,7,8-PeCDD	2.37e4	0.87	NO	0.9723	10.065	30.84	30.83	1.001	1.000	NO	3.420		0.186	3.420
3	1,2,3,4,7,8-HxCDD	1.33e4	1.35	NO	1.0706	10.065	34.19	34.19	1.000	1.000	NO	3.779		0.362	3.779
4	1,2,3,6,7,8-HxCDD	9.82e4	1.27	NO	0.9211	10.065	34.26	34.31	1.000	1.001	NO	23.36		0.366	23.36
5	1,2,3,7,8,9-HxCDD	3.52e4	1.24	NO	0.9182	10.065	34.59	34.57	1.001	1.001	NO	8.986		0.368	8.986
6	1,2,3,4,6,7,8-HpCDD	4.70e6	1.02	NO	0.9231	10.065	38.08	38.08	1.000	1.000	NO	949.2		1.12	949.2
7	OCDD	5.05e7	0.88	NO	0.9748	10.065	41.11	41.13	1.000	1.001	NO	11180		1.16	11180

#	Name	Pred.RT	RT	Int Resp	Int Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	38 Total Tetra-Dioxins	24.82	21.78	3.144e4	3.949e4	0.770	0.80	NO	7.1802	7.1802
2	38 Total Tetra-Dioxins	24.82	22.18	6.323e3	1.065e4	0.770	0.78	NO	1.9211	1.9211
3	38 Total Tetra-Dioxins	24.82	22.71	4.037e3	5.056e3	0.770	0.80	NO	0.92053	0.92053
4	38 Total Tetra-Dioxins	24.82	23.82	2.150e3	2.222e3	0.770	0.97	YES	0.39810	0.00000

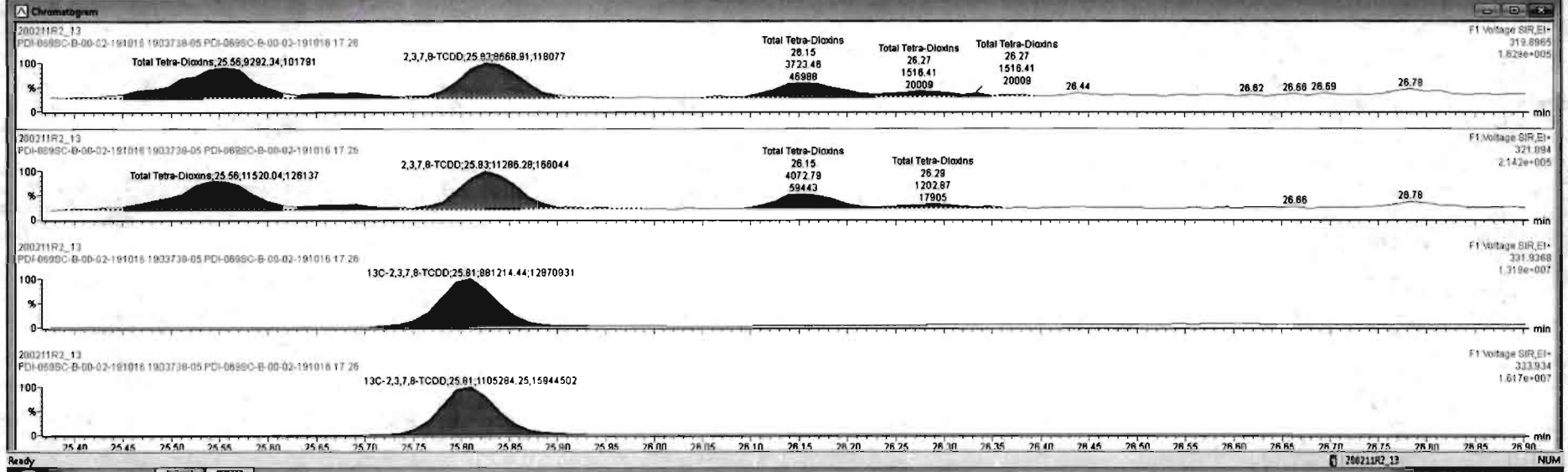


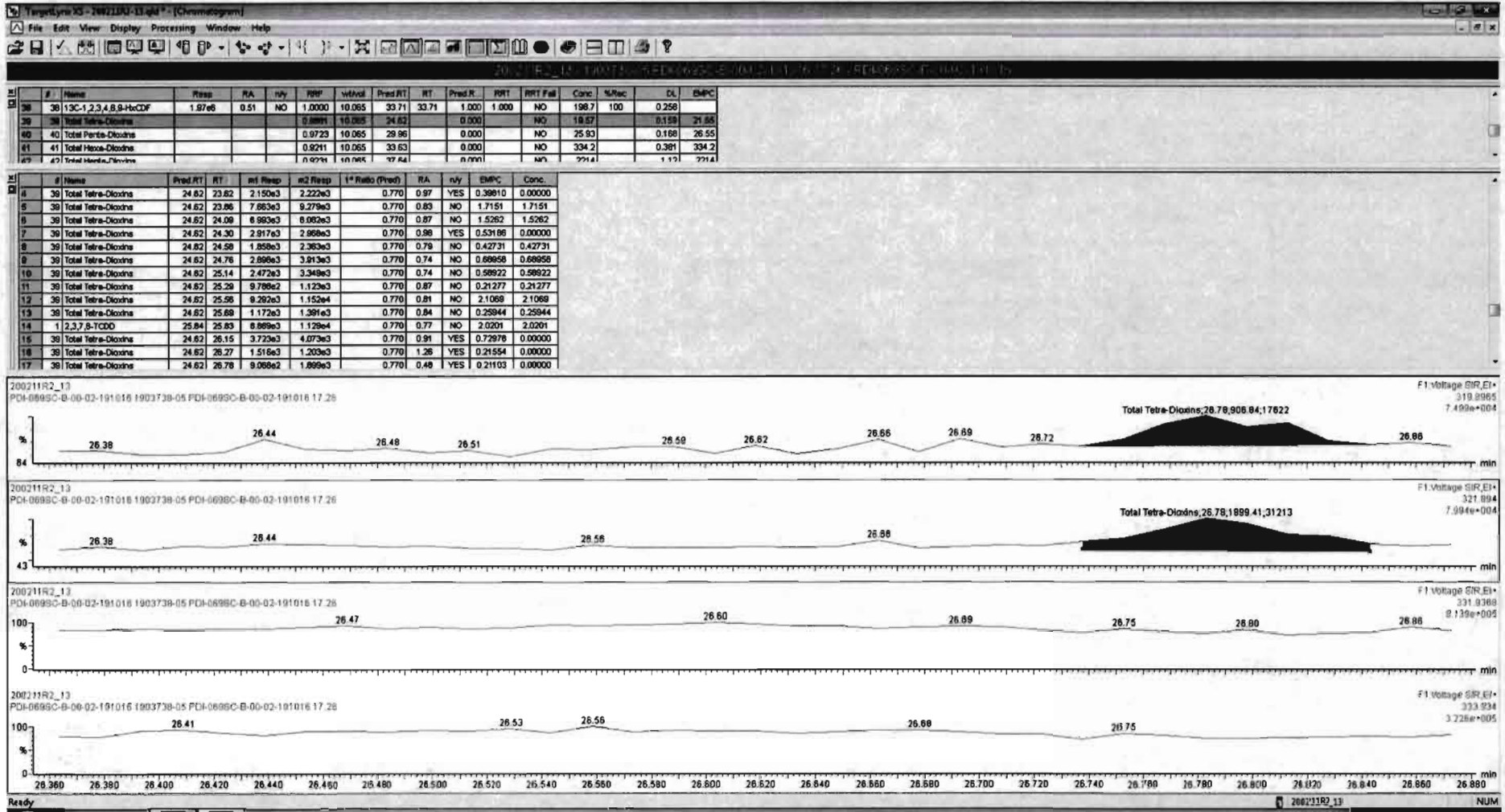


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#	Name	Resp	RA	n/y	RPF	wtAve	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
37	13C-1,2,3,4-TCDF	3.09e6	0.80	NO	1.0000	10.065	23.37	23.43	1.000	1.000	NO	198.7	100	0.703	
38	13C-1,2,3,4,8-HxCDF	1.97e6	0.51	NO	1.0000	10.065	33.71	33.71	1.000	1.000	NO	198.7	100	0.258	
39	Total Tetra-Dioxins				0.8801	10.065	24.82		0.000		NO	19.57		0.159	21.44
40	Total Penta-Dioxins				0.9723	10.065	29.96		0.000		NO	25.96		0.168	26.75
41	Total Hexa-Fluorine				0.9241	10.065	34.61		0.000		NO	33.61		0.181	33.71

#	Name	Pred RT	RT	wt Resp	nt Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
5	39 Total Tetra-Dioxins	24.82	25.86	7.663e3	9.279e3	0.770	0.83	NO	1.7151	1.7151
6	39 Total Tetra-Dioxins	24.82	24.00	6.993e3	8.062e3	0.770	0.87	NO	1.5282	1.5282
7	39 Total Tetra-Dioxins	24.82	24.30	2.917e3	2.969e3	0.770	0.98	YES	0.53186	0.00000
8	39 Total Tetra-Dioxins	24.82	24.58	1.858e3	2.363e3	0.770	0.79	NO	0.42731	0.42731
9	39 Total Tetra-Dioxins	24.82	24.75	2.898e3	3.913e3	0.770	0.74	NO	0.68958	0.68958
10	39 Total Tetra-Dioxins	24.82	25.14	2.472e3	3.349e3	0.770	0.74	NO	0.58922	0.58922
11	39 Total Tetra-Dioxins	24.82	25.29	9.788e2	1.123e3	0.770	0.87	NO	0.21277	0.21277
12	39 Total Tetra-Dioxins	24.82	25.56	9.282e3	1.152e4	0.770	0.81	NO	2.1069	2.1069
13	39 Total Tetra-Dioxins	24.82	25.86	1.172e3	1.391e3	0.770	0.84	NO	0.25944	0.25944
14	1 2,3,7,8-TCDD	25.84	25.83	8.669e3	1.129e4	0.770	0.77	NO	2.0201	2.0201
15	39 Total Tetra-Dioxins	24.82	26.15	3.723e3	4.073e3	0.770	0.91	YES	0.72878	0.00000
16	39 Total Tetra-Dioxins	24.82	26.27	1.518e3	1.203e3	0.770	1.26	YES	0.21554	0.00000





Dataset: Untitled

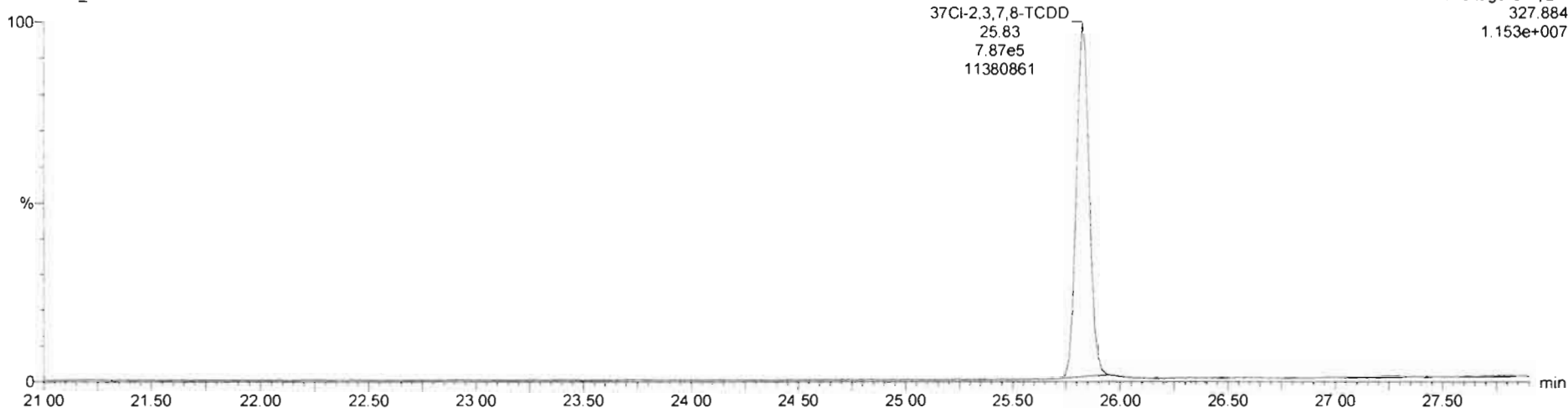
Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

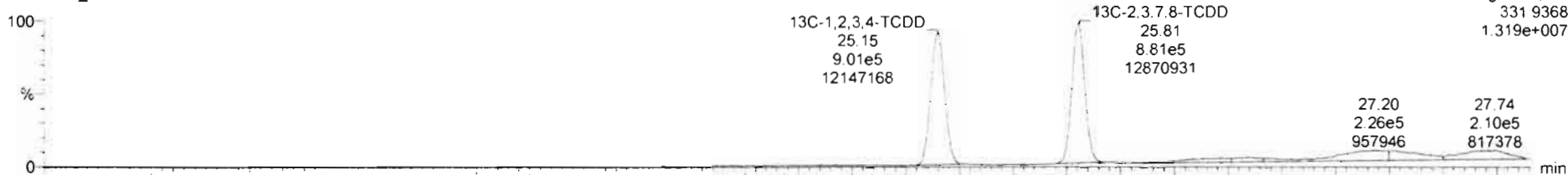
37Cl-2,3,7,8-TCDD

200211R2_13

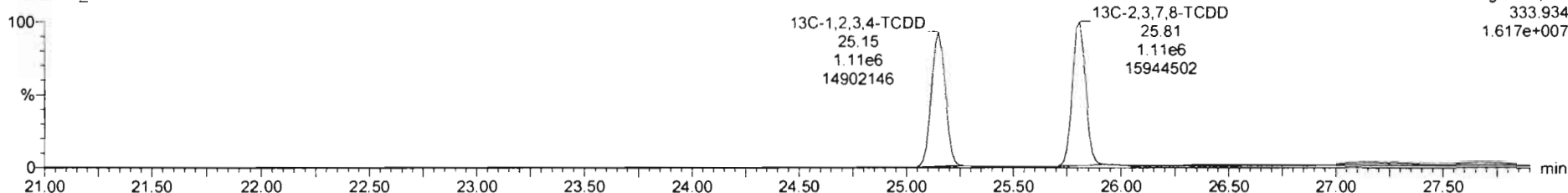


13C-1,2,3,4-TCDD

200211R2_13



200211R2_13



Dataset: Untitled

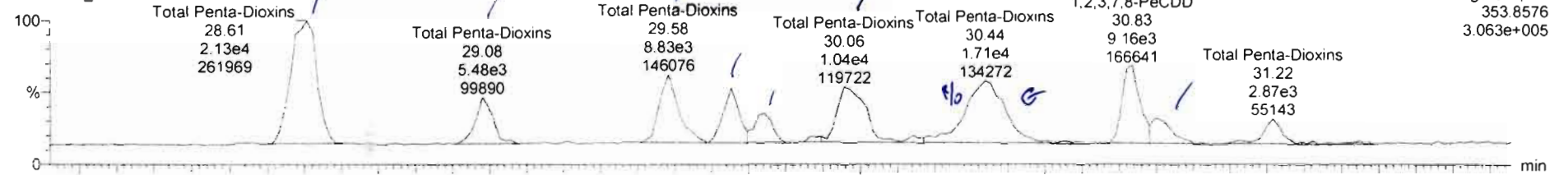
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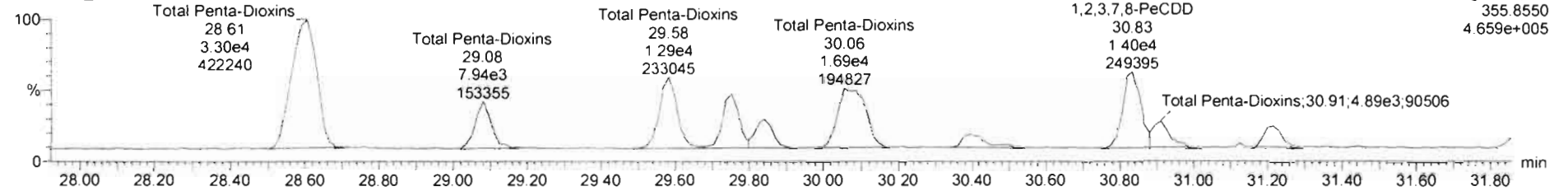
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1,2,3,7,8-PeCDD

200211R2_13

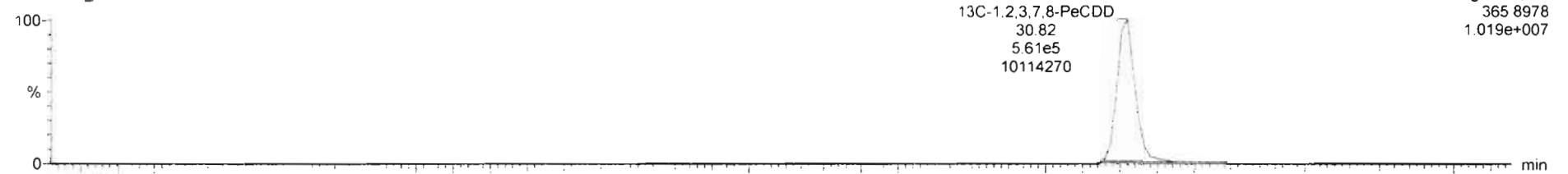


200211R2_13

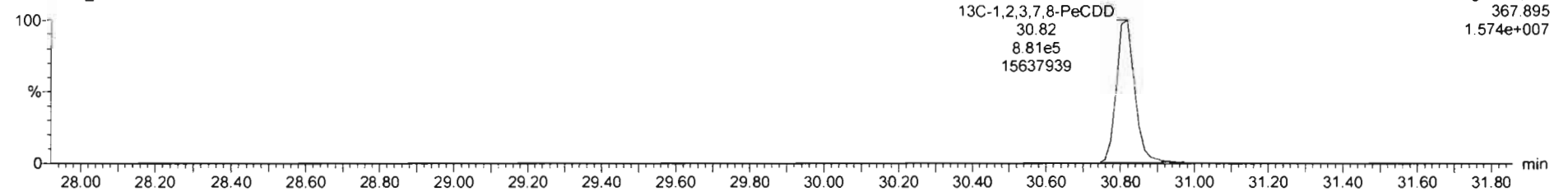


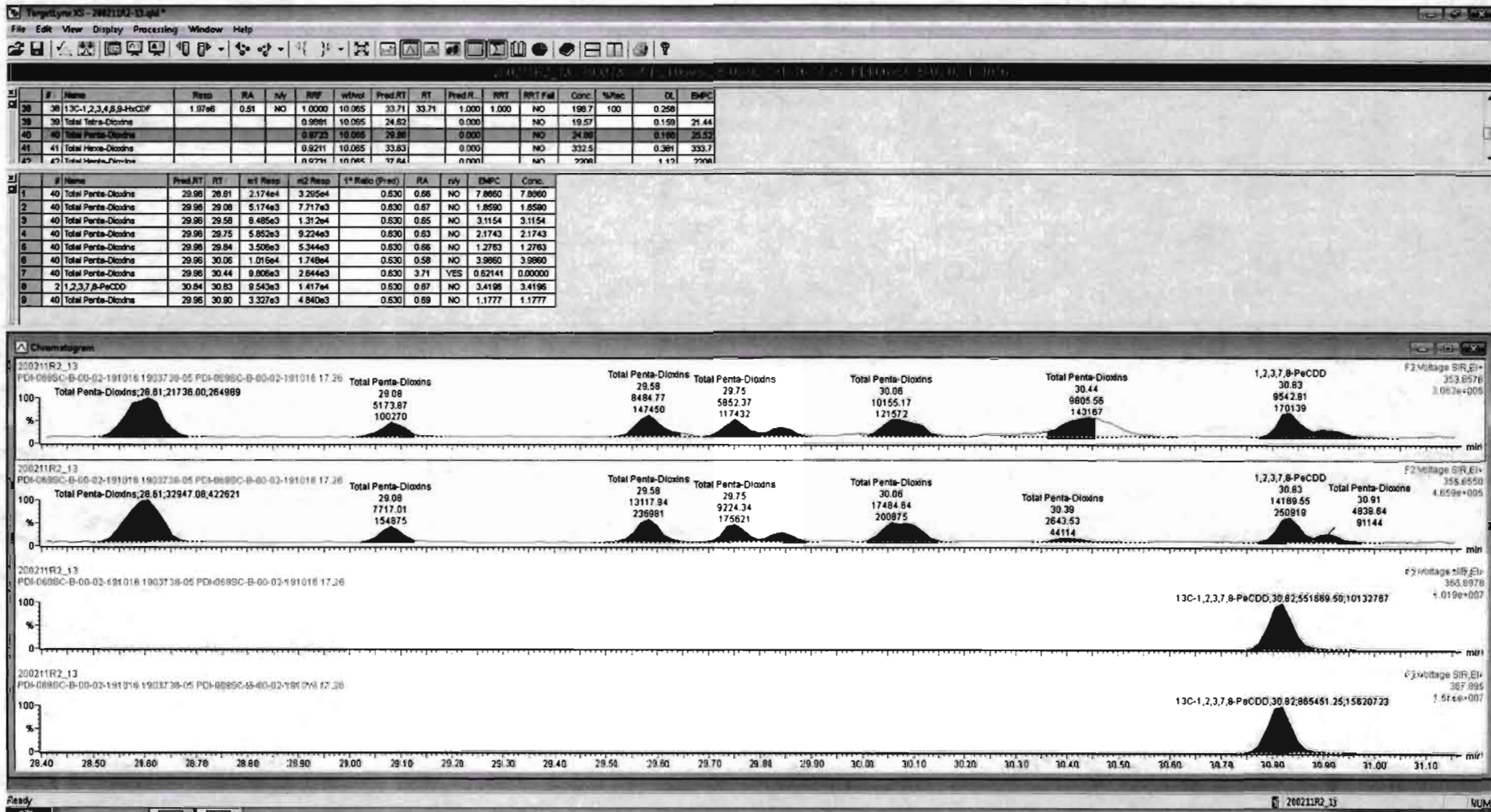
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200211R2_13



200211R2_13





Dataset: Untitled

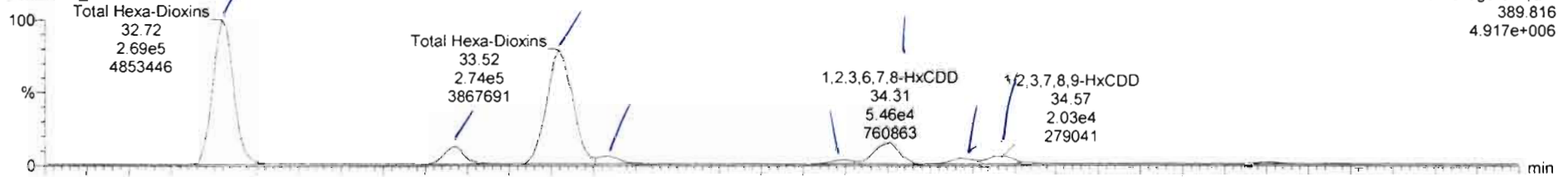
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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

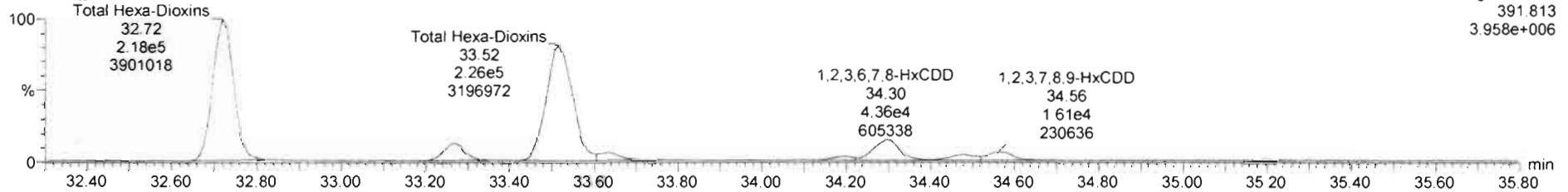
Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

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

200211R2_13

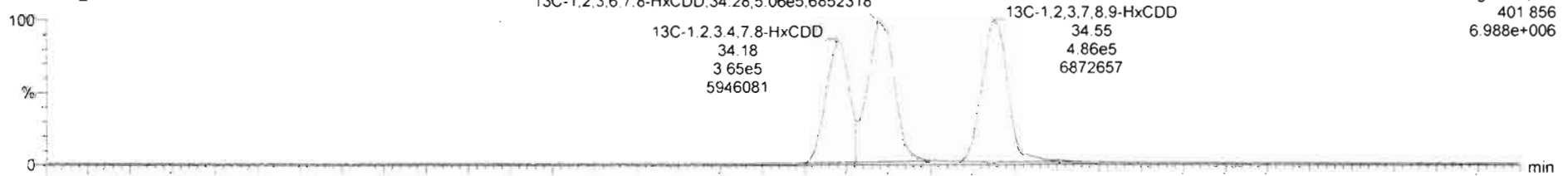


200211R2_13

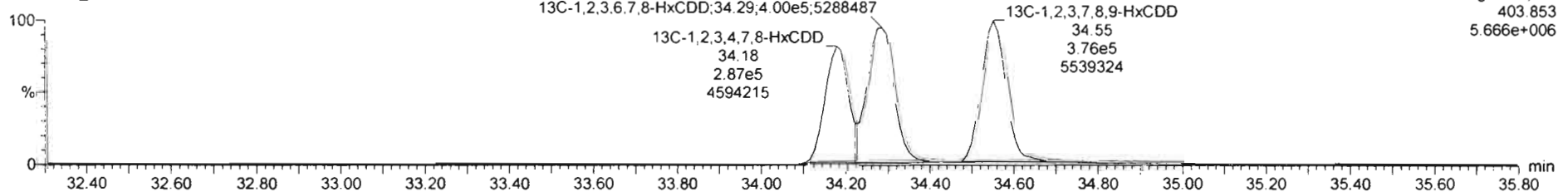


13C-1,2,3,4,7,8-HxCDD

200211R2_13



200211R2_13



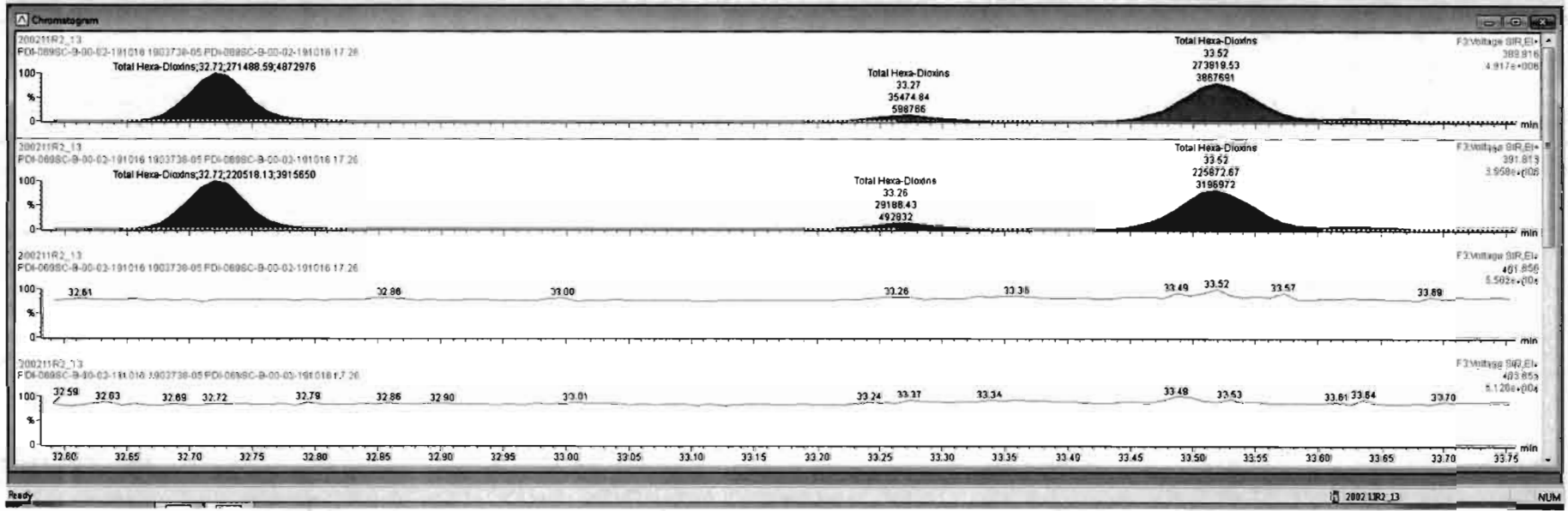
Targetlyn XS - 200211R2-13.d44

File Edit View Display Processing Window Help

200211R2_13.FID03738-05.FID0695C-B-00-02-191016.17.26.FID0695C-B-00-02-191016

#	Name	Resp	RA	n/y	RFP	ndAcl	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
38	1,2,3,4,6,8-HxCDF	1.97e6	0.51	NO	1.0000	10.085	33.71	33.71	1.000	1.000	NO	198.7	100	0.258	
38	Total Hexa-Chlorins				0.9891	10.085	34.62		0.000		NO	19.57		0.158	21.44
40	Total Penta-Chlorins				0.9723	10.085	33.96		0.000		NO	24.88		0.158	25.52
41	Total Hexa-Chlorins				0.9211	10.085	33.83		0.000		NO	336.2		0.391	334.2
47	Total Hexa-Chlorins				0.9279	10.084	33.84		0.000		NO	7708		1.13	7708

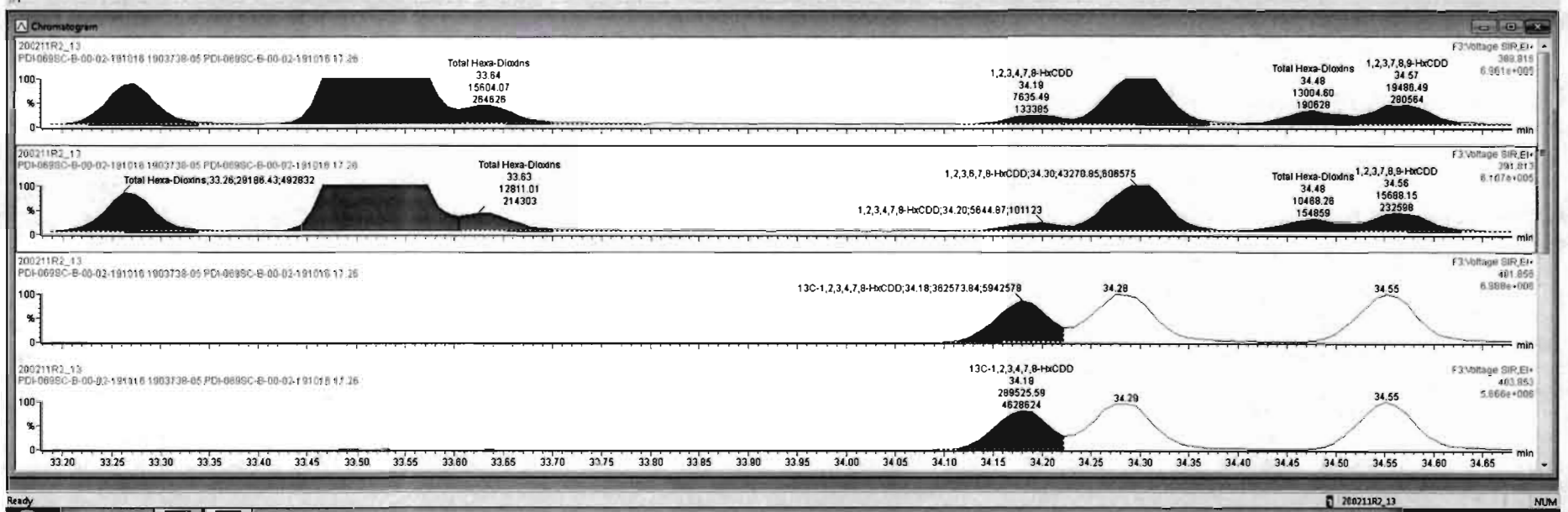
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	41 Total Hexa-Dioxins	33.83	32.72	2.715e5	2.205e5	1.240	1.23	NO	132.32	132.32
2	41 Total Hexa-Dioxins	33.83	33.27	3.547e4	2.819e4	1.240	1.22	NO	17.390	17.390
3	41 Total Hexa-Dioxins	33.83	33.52	2.738e5	2.259e5	1.240	1.21	NO	134.38	134.38
4	41 Total Hexa-Dioxins	33.83	33.84	1.580e4	1.291e4	1.240	1.22	NO	7.8421	7.8421
5	3 1,2,3,4,7,8-HxCDD	34.19	34.19	7.835e3	5.845e3	1.240	1.35	NO	3.7792	3.7792
8	4 1,2,3,6,7,8-HxCDD	34.28	34.21	5.495e4	4.327e4	1.240	1.27	NO	23.359	23.359
7	41 Total Hexa-Dioxins	33.83	34.48	1.300e4	1.047e4	1.240	1.24	NO	8.3129	8.3129
8	5 1,2,3,7,8-HxCDD	34.59	34.57	1.848e4	1.588e4	1.240	1.24	NO	8.8952	8.8952



Targetlyn.X3 - 200211R2-13.qld
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#	Name	Resp	RA	n/y	RRF	wt/rd	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
38	13C-1,2,3,4,6,8-HxCDF	1.97e6	0.51	NO	1.0000	10.065	33.71	33.71	1.000	1.000	NO	198.7	100	0.258	
39	Total Tetra-Dioxins				0.9981	10.065	24.62		0.000		NO	19.57		0.158	21.44
40	Total Penta-Dioxins				0.9723	10.065	29.98		0.000		NO	24.89		0.168	25.52
41	Total Hexa-Dioxins				0.9211	10.065	33.63		0.000		NO	334.2		0.381	334.2
42	Total Hexa-Chlorins				0.9711	10.065	17.64		0.000		NO	2298		1.12	2298

#	Name	Pred RT	RT	wt Resp	rd Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	32.72	2.715e5	2.205e5	1.240	1.23	NO	132.32	132.32
2	41 Total Hexa-Dioxins	33.63	33.27	3.547e4	2.919e4	1.240	1.22	NO	17.390	17.390
3	41 Total Hexa-Dioxins	33.63	33.52	2.738e5	2.259e5	1.240	1.21	NO	134.39	134.39
4	41 Total Hexa-Dioxins	33.63	33.64	1.560e4	1.281e4	1.240	1.22	NO	7.6421	7.6421
5	3 1,2,3,4,7,8-HxCDD	34.19	34.19	7.835e3	5.845e3	1.240	1.35	NO	3.7792	3.7792
6	4 1,2,3,6,7,8-HxCDD	34.28	34.31	5.495e4	4.327e4	1.240	1.27	NO	23.359	23.359
7	41 Total Hexa-Dioxins	33.63	34.48	1.300e4	1.047e4	1.240	1.24	NO	6.3129	6.3129
8	5 1,2,3,7,8,9-HxCDD	34.58	34.57	1.849e4	1.589e4	1.240	1.24	NO	8.9882	8.9882



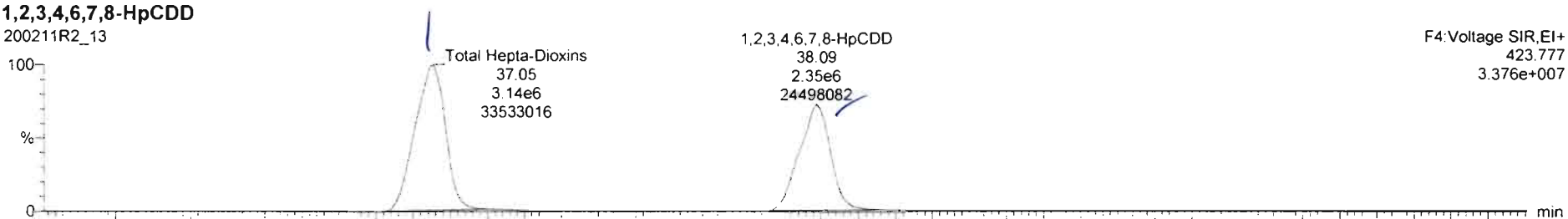
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Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

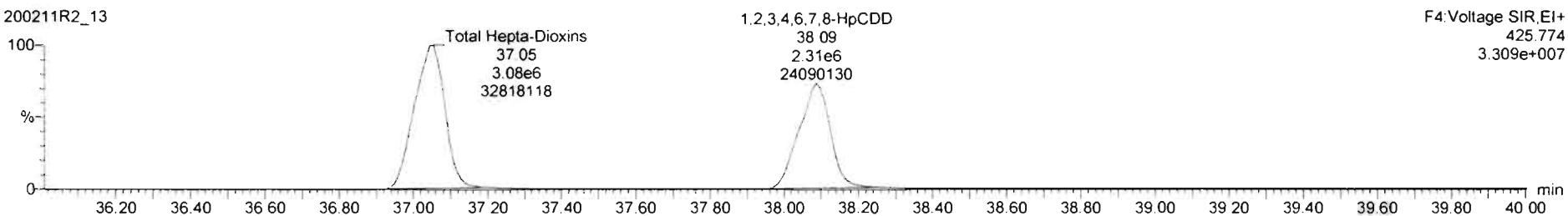
Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

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

200211R2_13

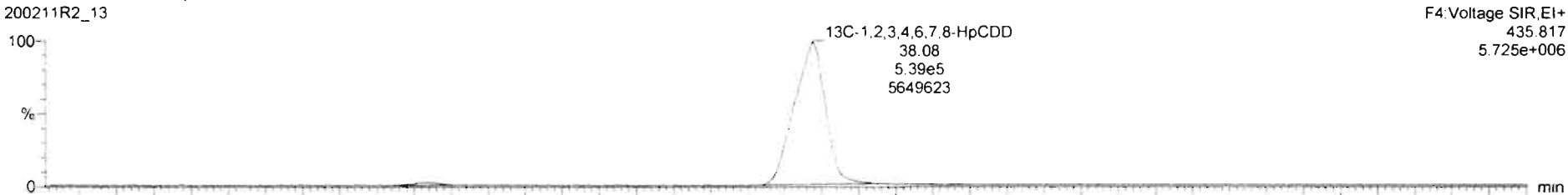


200211R2_13

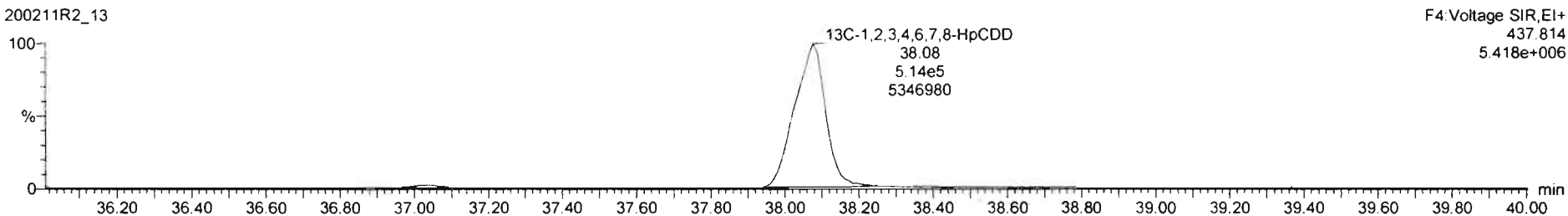


13C-1,2,3,4,6,7,8-HpCDD

200211R2_13

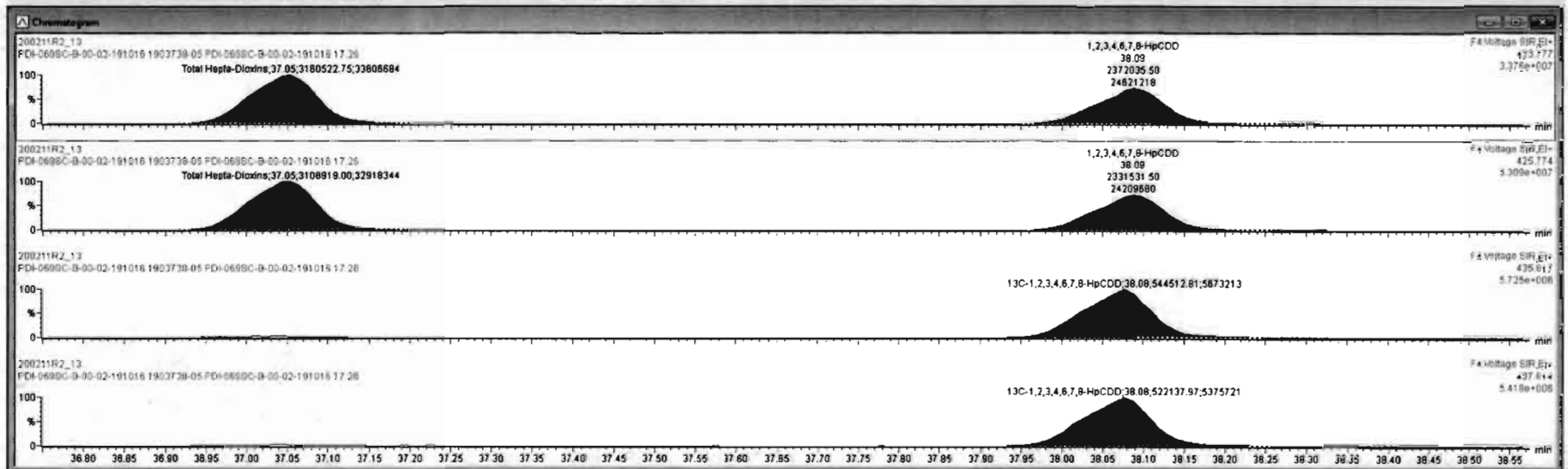


200211R2_13



#	Name	Reap	RA	rv	RF	w/vol	Prod RT	RT	Prod.R	RRT	RRT Fail	Conc.	%Rec	Dt	EMPC
40	Total Penta-Dioxins				0.9723	10.065	29.96		0.000		NO	24.80		0.168	25.52
41	Total Hexa-Dioxins				0.9211	10.065	33.63		0.000		NO	334.2		0.381	334.2
42	Total Hepta-Dioxins				0.8231	10.065	37.84		0.000		NO	2216		1.12	2216
43	Total Tota-Furans				0.8020	10.065	23.81		0.000		NO	600.1		0.345	671.3
44	Total Furans-Dioxins				0.9074	10.065	27.00		0.000		NO	68.30		0.6723	68.30

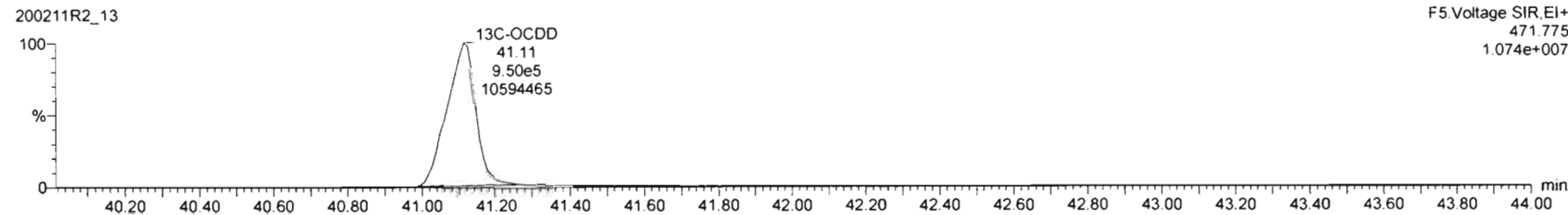
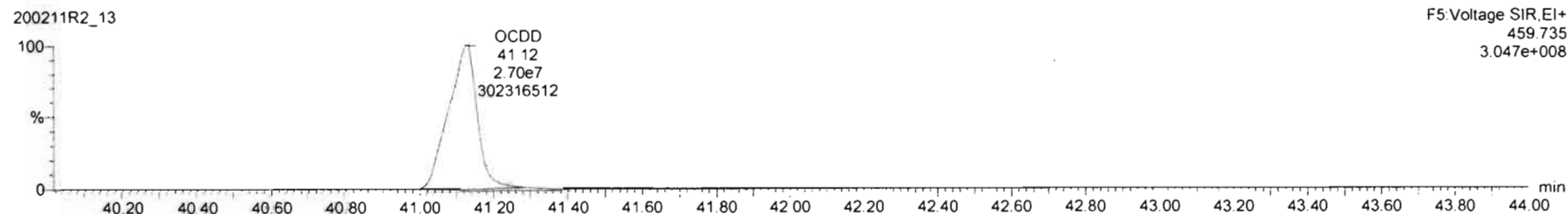
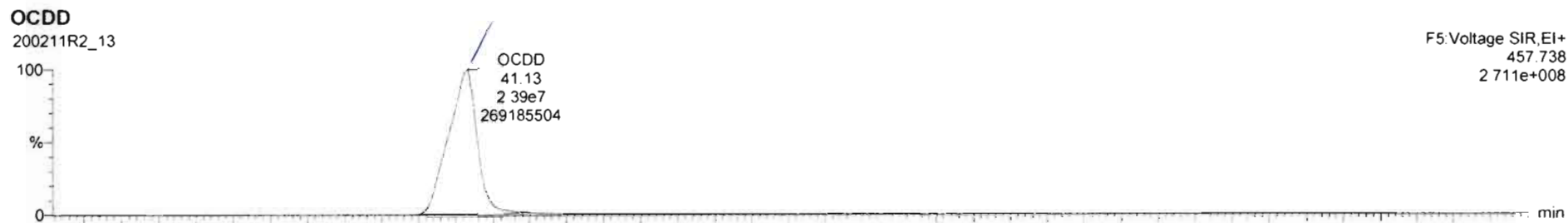
#	Name	Prod RT	RT	wt Reap	wt Pass	1* Ratio (Prod)	RA	rv	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.84	37.05	3.161e6	3.109e6	1.040	1.02	NO	1.265.3	1.265.3
2	6 1,2,3,4,6,7,8-HpCDD	38.08	38.08	2.372e6	2.332e6	1.040	1.02	NO	949.24	949.24

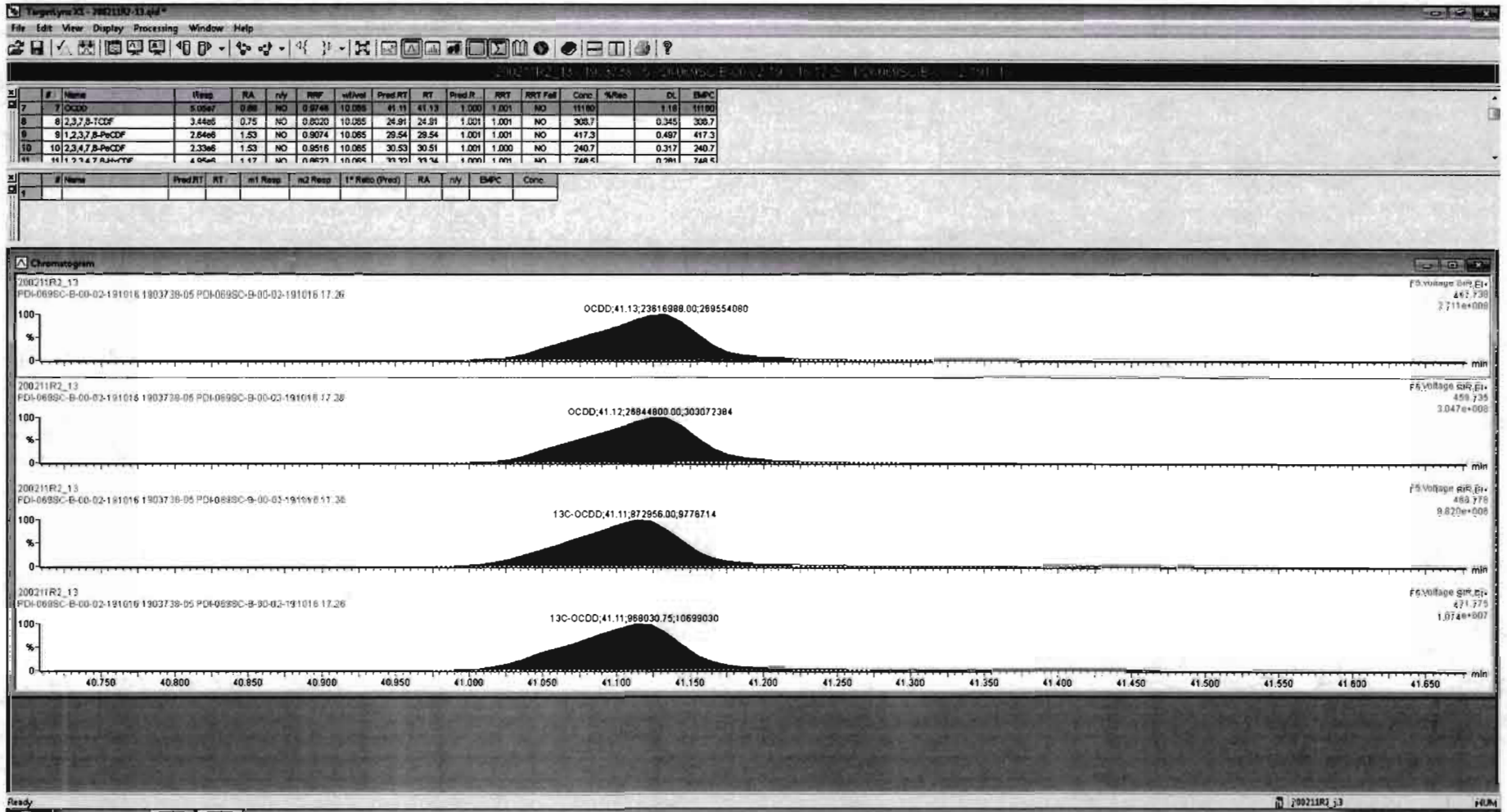


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Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016





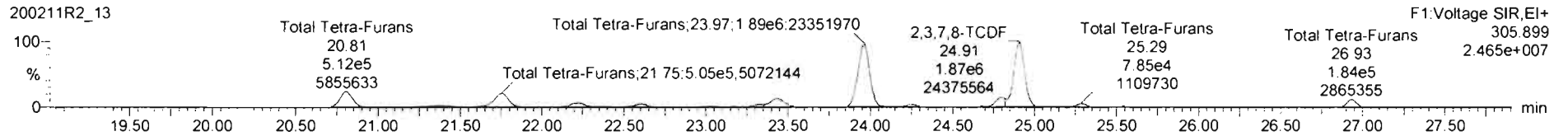
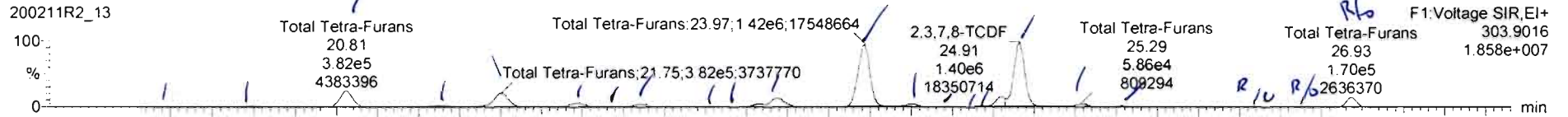
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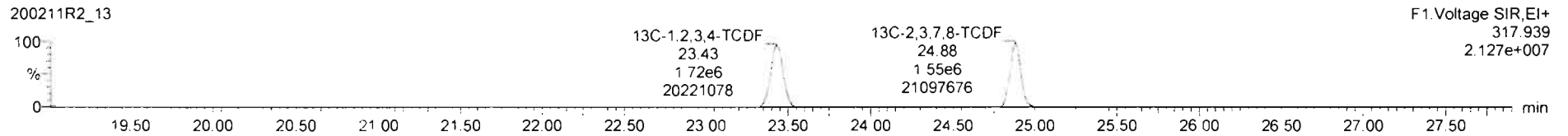
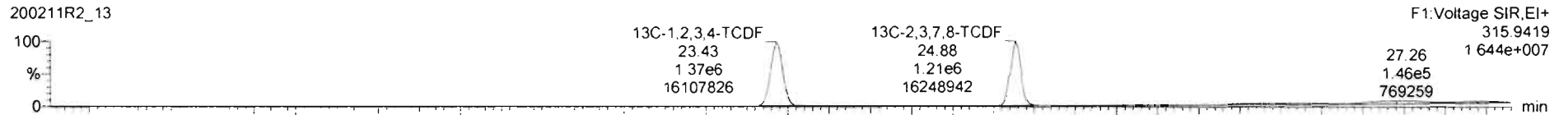
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

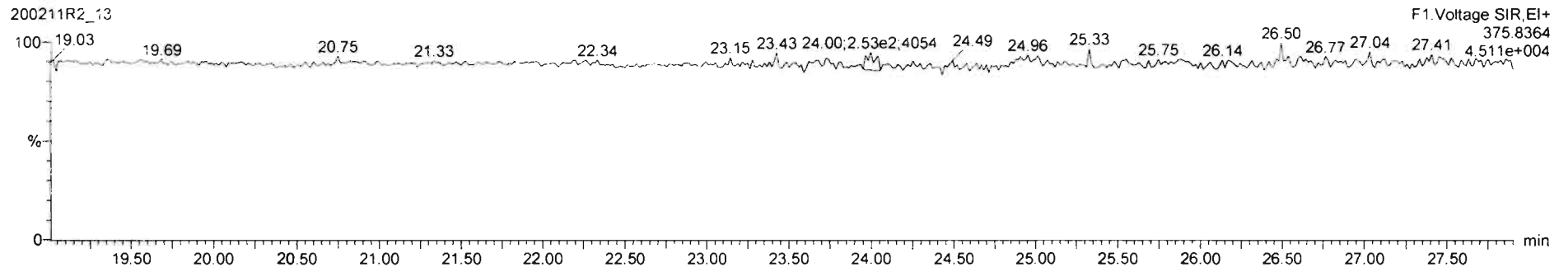
2,3,7,8-TCDF



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

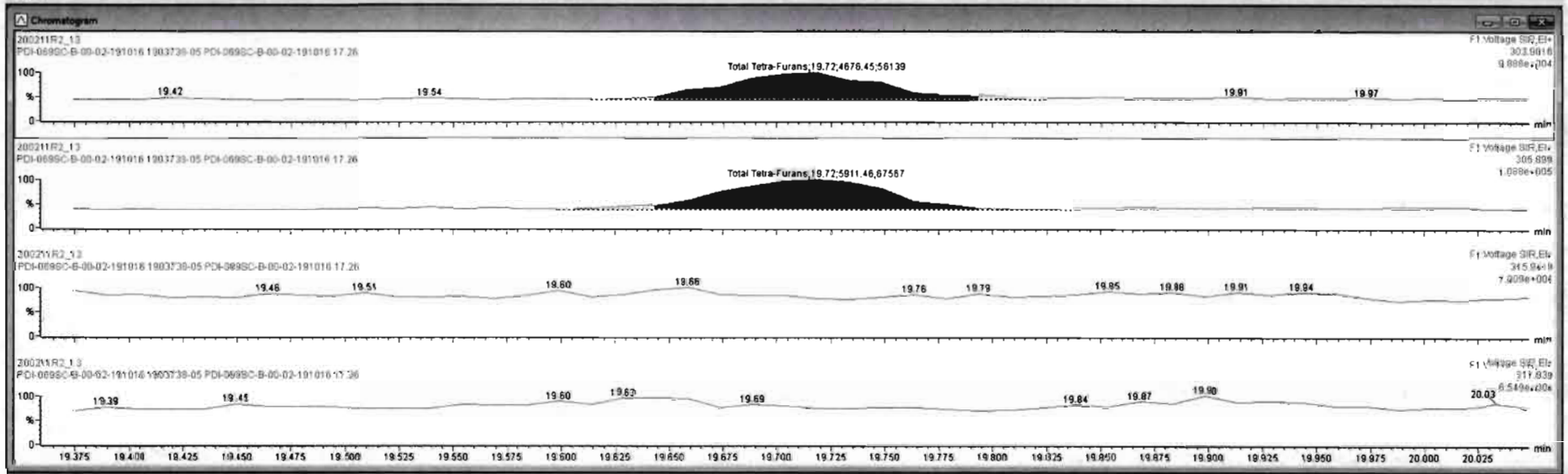


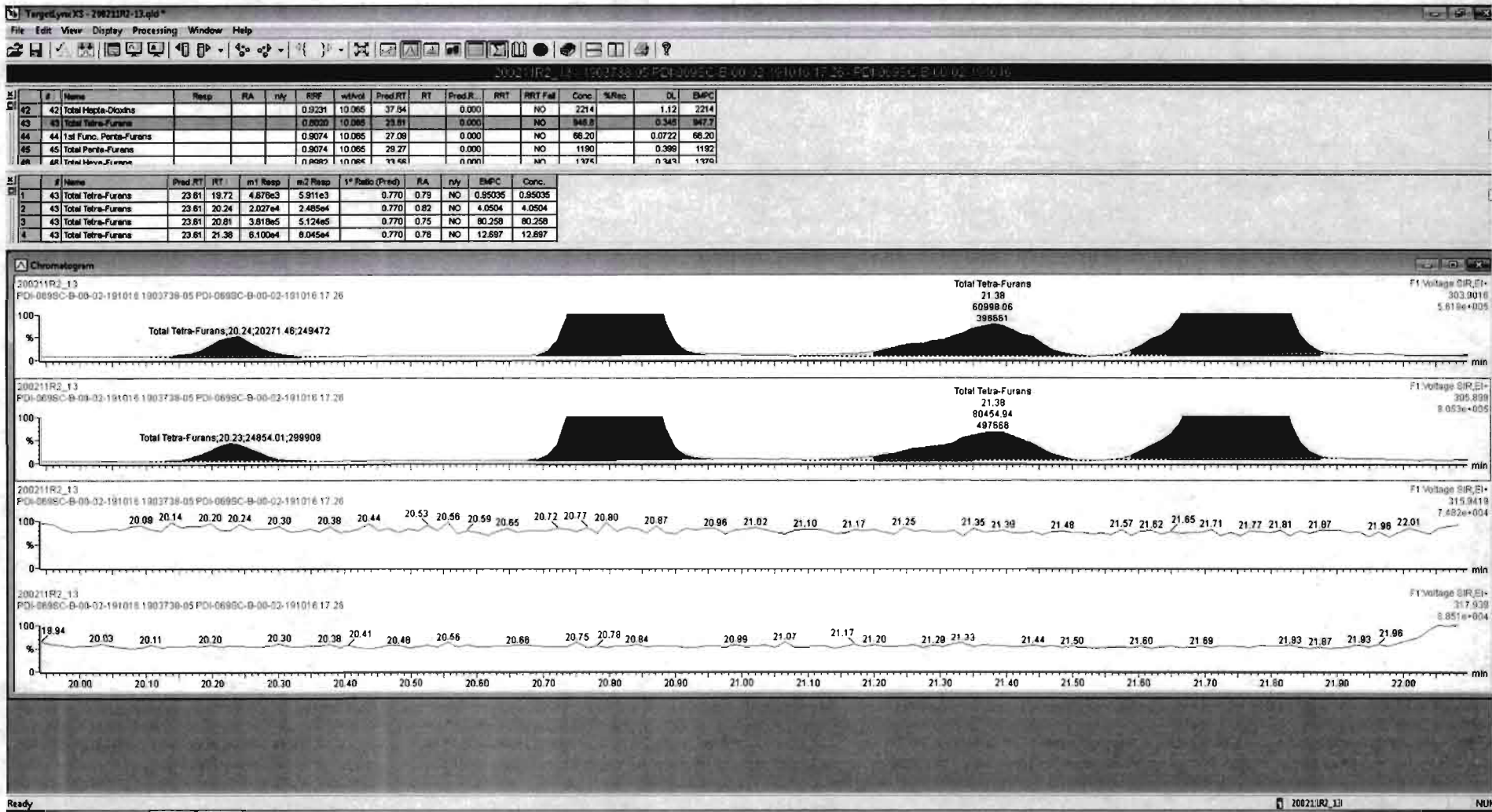
DPE1

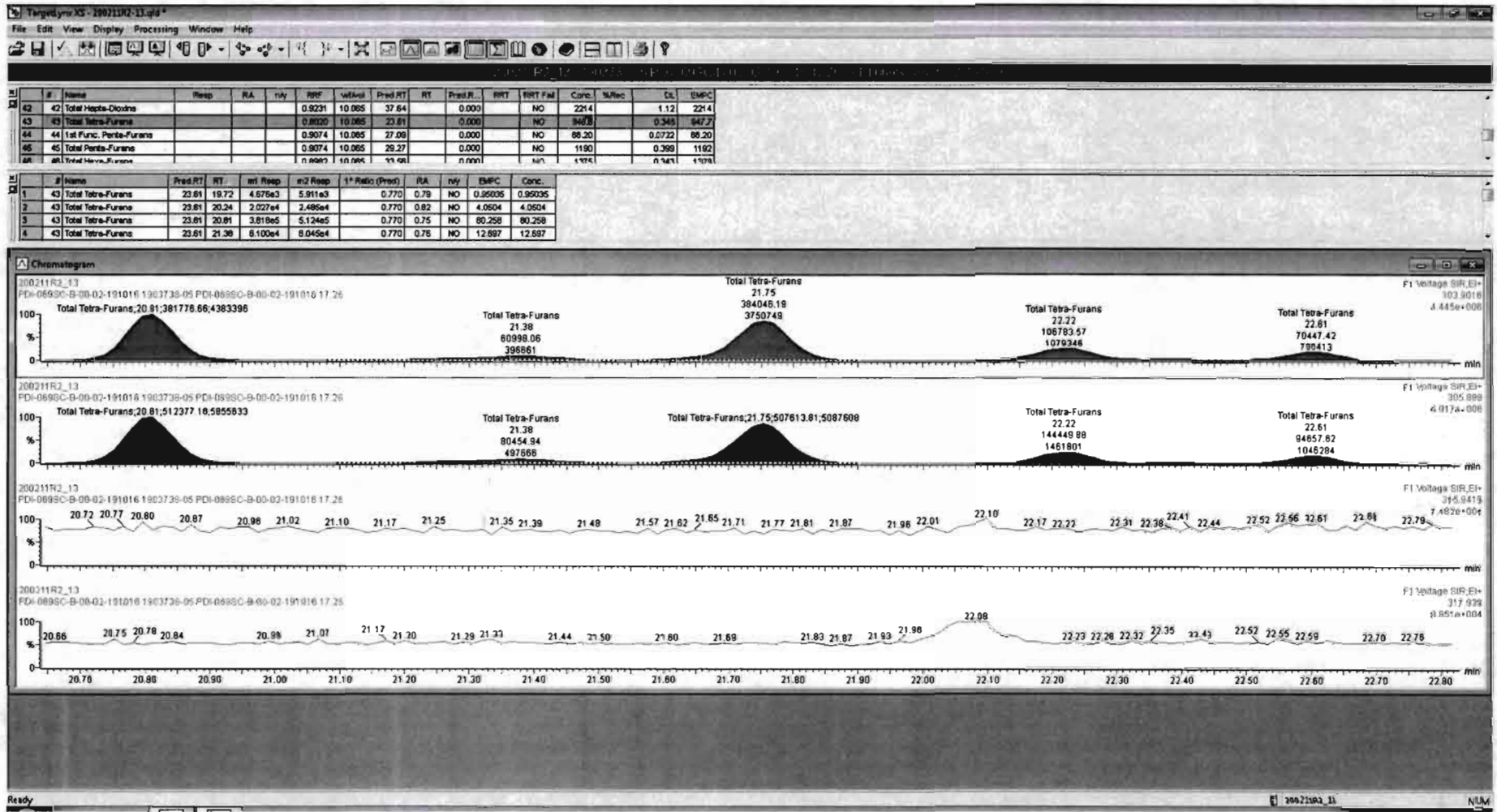


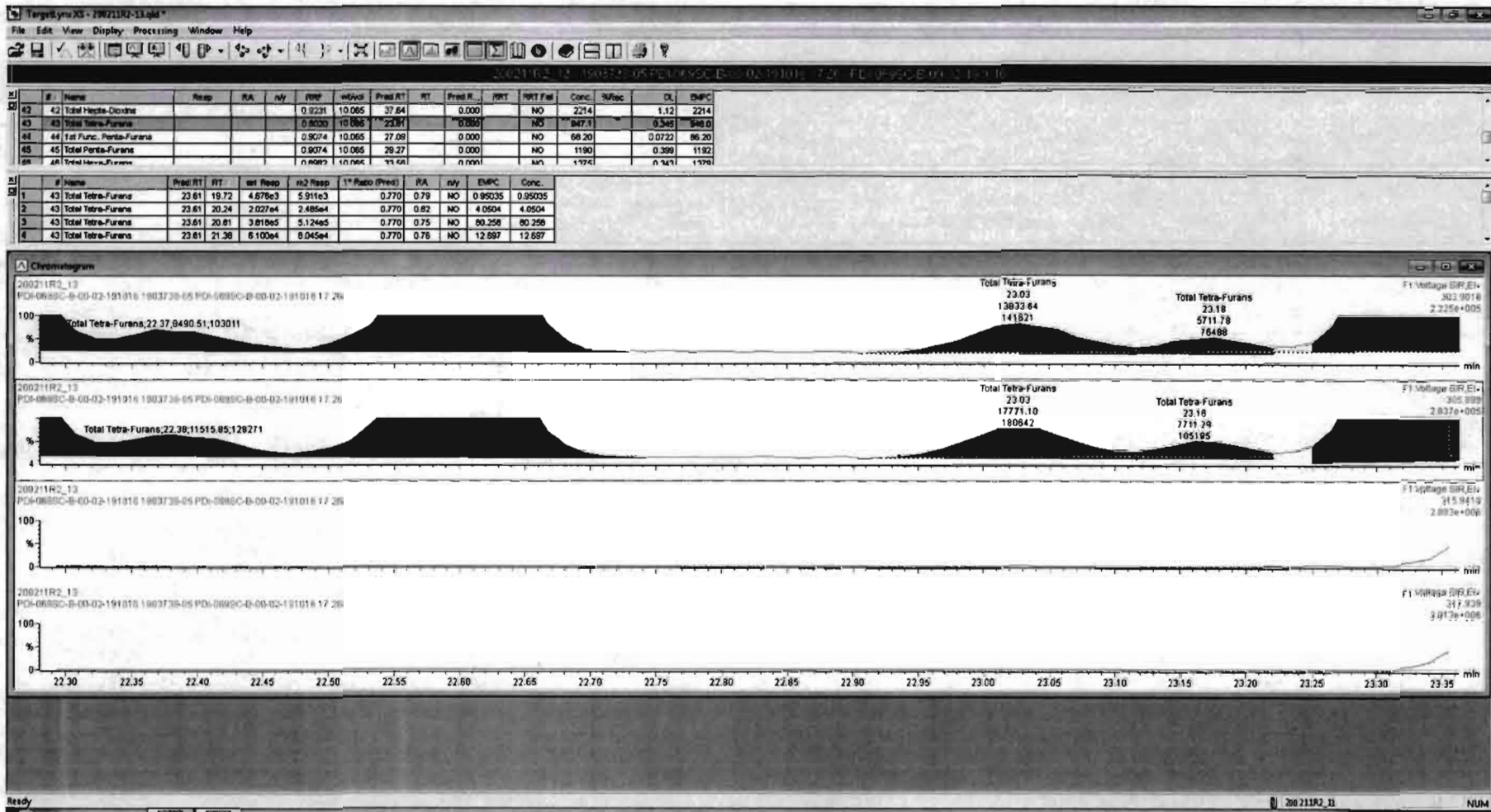
#	Name	Resp	RA	nV	RRF	ntAve	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	Total Hepta-Chlorins				0.9071	10.065	37.94		0.000		NO	2214		1.12	221.4
43	Total Tetra-Furans				0.9070	10.065	23.81		0.000		NO	946.8		0.345	947.7
44	1st Func. Penta-Furans				0.9074	10.065	27.09		0.000		NO	66.20		0.0722	66.20
45	Total Penta-Furans				0.9074	10.065	29.27		0.000		NO	1190		0.399	1192
AR	AR Total Hexa-Furans				0.9097	10.064	33.68		0.000		NO	1374		0.541	1379

#	Name	Pred RT	RT	n1 Resp	n2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc.
1	Total Tetra-Furans	23.81	19.72	4.676e3	5.911e3	0.770	0.79	NO	0.95035	0.95035
2	Total Tetra-Furans	23.81	20.24	2.027e4	2.485e4	0.770	0.82	NO	4.0504	4.0504
3	Total Tetra-Furans	23.81	20.81	3.818e5	5.124e5	0.770	0.75	NO	80.258	80.258
4	Total Tetra-Furans	23.81	21.38	6.100e4	8.045e4	0.770	0.78	NO	12.697	12.697





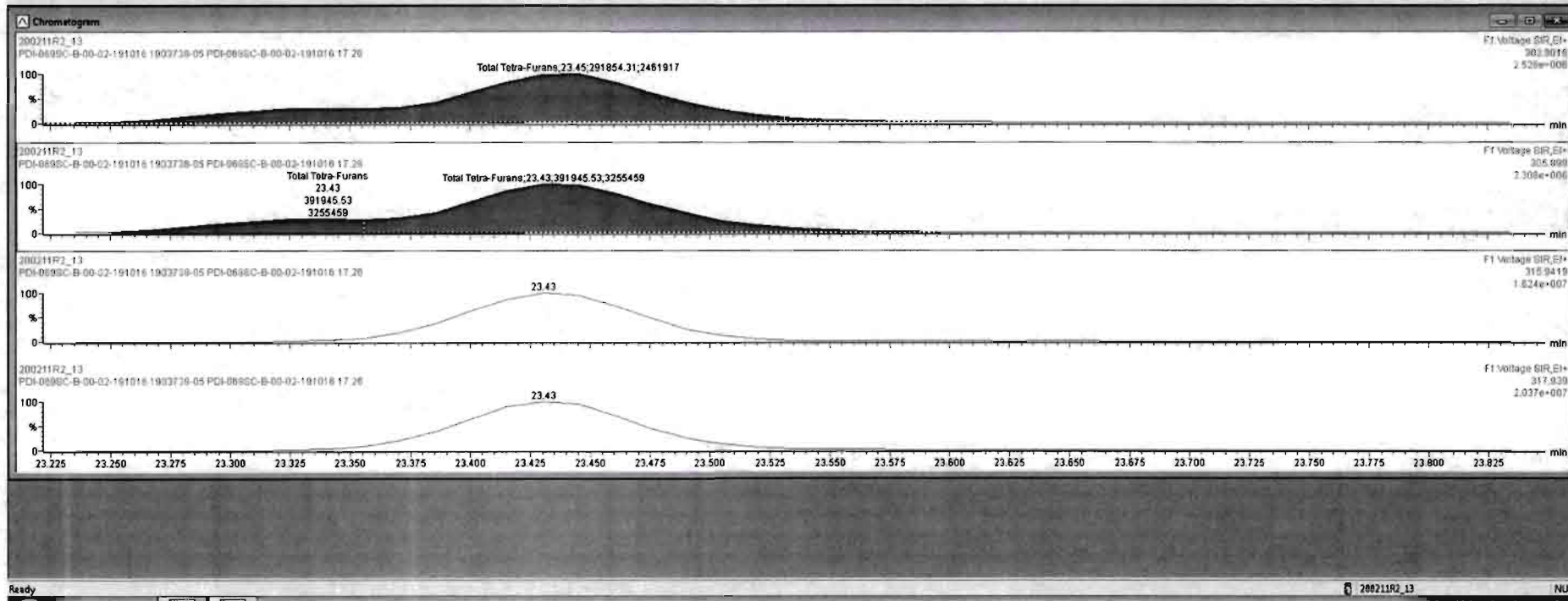


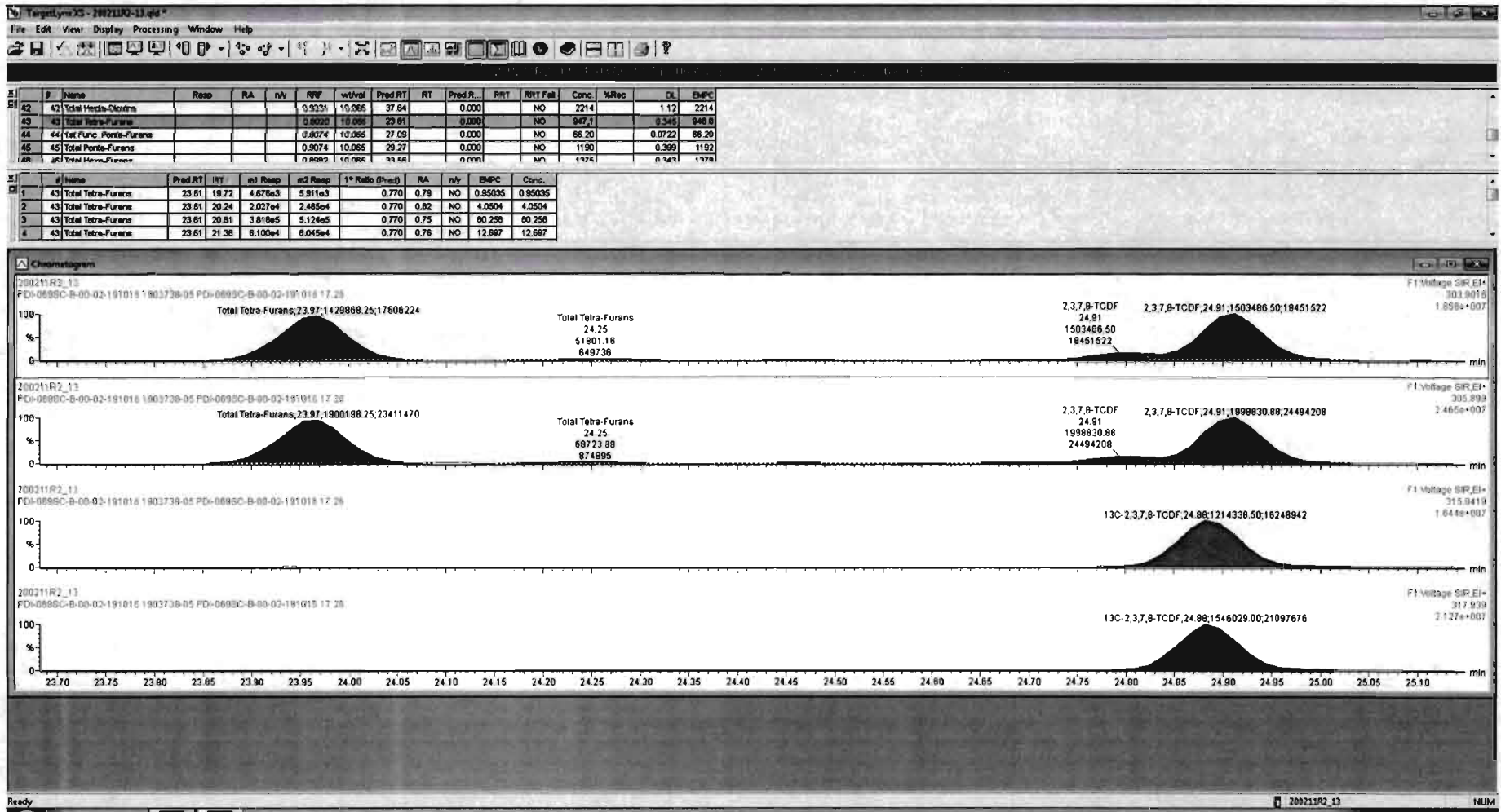


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#	Name	Resp	RA	n/y	RRF	wtAvd	Pred RT	RT	Pred R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.8231	10.065	37.64		0.000		NO	2214		1.12	2214
43	Total Tetra-Furans				0.9020	10.065	23.61		0.000		NO	947.1		0.295	948.0
44	1st Func. Penta-Furans				0.9074	10.065	27.09		0.000		NO	66.20		0.0722	66.20
45	Total Penta-Furans				0.9074	10.065	29.27		0.000		NO	1190		0.398	1192
46	Total Hexa-Furans				0.9082	10.065	31.56		0.000		NO	1176		0.143	1179

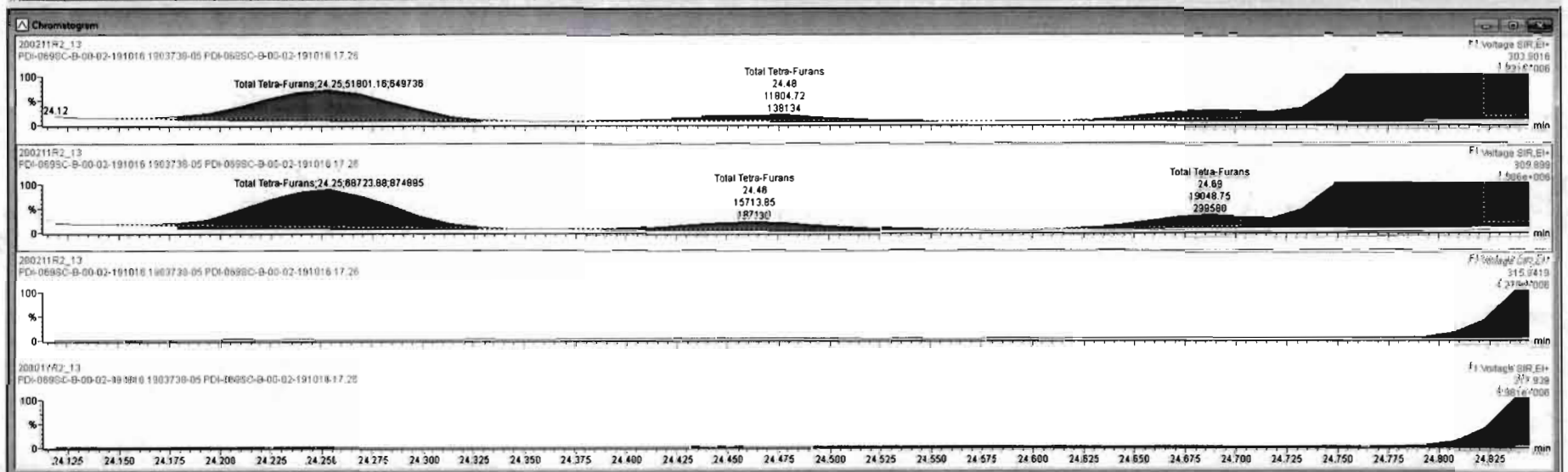
#	Name	Pred RT	RT	m1 Resp	m2 Resp	S* Ratio (Pred)	RA	n/y	EMPC	Conc
1	Total Tetra-Furans	23.61	19.72	4.676e3	5.911e3	0.770	0.79	NO	0.95035	0.95035
2	Total Tetra-Furans	23.61	20.24	2.027e4	2.485e4	0.770	0.82	NO	4.0504	4.0504
3	Total Tetra-Furans	23.61	20.81	3.818e5	5.124e5	0.770	0.75	NO	80.258	80.258
4	Total Tetra-Furans	23.61	21.39	6.100e4	8.045e4	0.770	0.76	NO	12.687	12.687





#	Name	Resp	RA	nly	RDF	sdAcd	Pred.RT	RT	Pred.R...	RRT	RRT Fel	Conc.	%Rec	DL	EMPC
42	Total Hista-Dioxine				0.9221	10.985	37.84		0.000		NO	2214		1.12	2214
43	Total Tetra-Furans				0.9020	10.988	23.81		0.000		NO	847.3		0.345	848.0
44	1st Func. Penta-Furans				0.9074	10.985	27.06		0.000		NO	68.30		0.0722	68.30
45	Total Penta-Furans				0.9074	10.985	28.27		0.000		NO	1190		0.399	1192
46	Total Hexa-Furans				0.9087	10.985	29.48		0.000		NO	1374		0.343	1379

#	Name	Pred.RT	RT	int Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	Total Tetra-Furans	23.81	19.72	4.676e3	5.911e3	0.770	0.79	NO	0.95035	0.95035
2	Total Tetra-Furans	23.81	20.24	2.027e4	2.465e4	0.770	0.82	NO	4.0504	4.0504
3	Total Tetra-Furans	23.81	20.81	3.819e5	5.124e5	0.770	0.75	NO	80.258	80.258
4	Total Tetra-Furans	23.81	21.38	8.100e4	8.045e4	0.770	0.78	NO	12.897	12.897

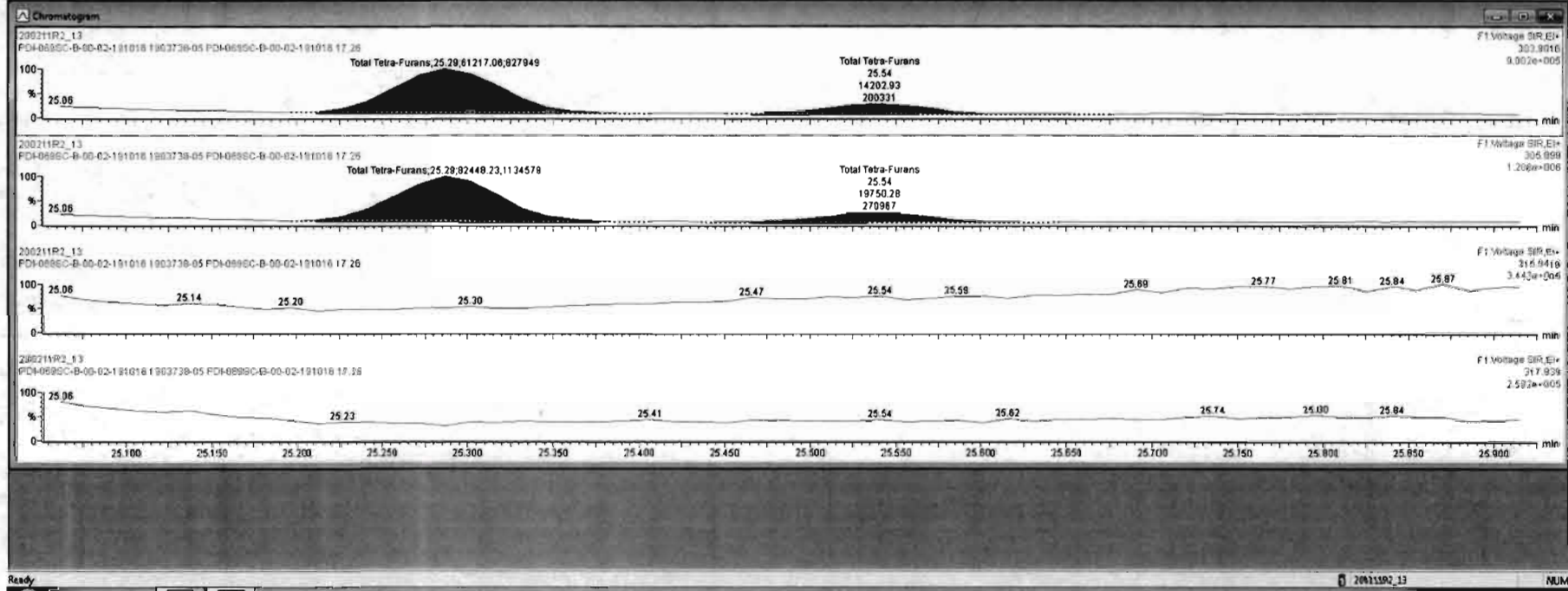


TargetLynx.XS - 200211R2-13.qtd

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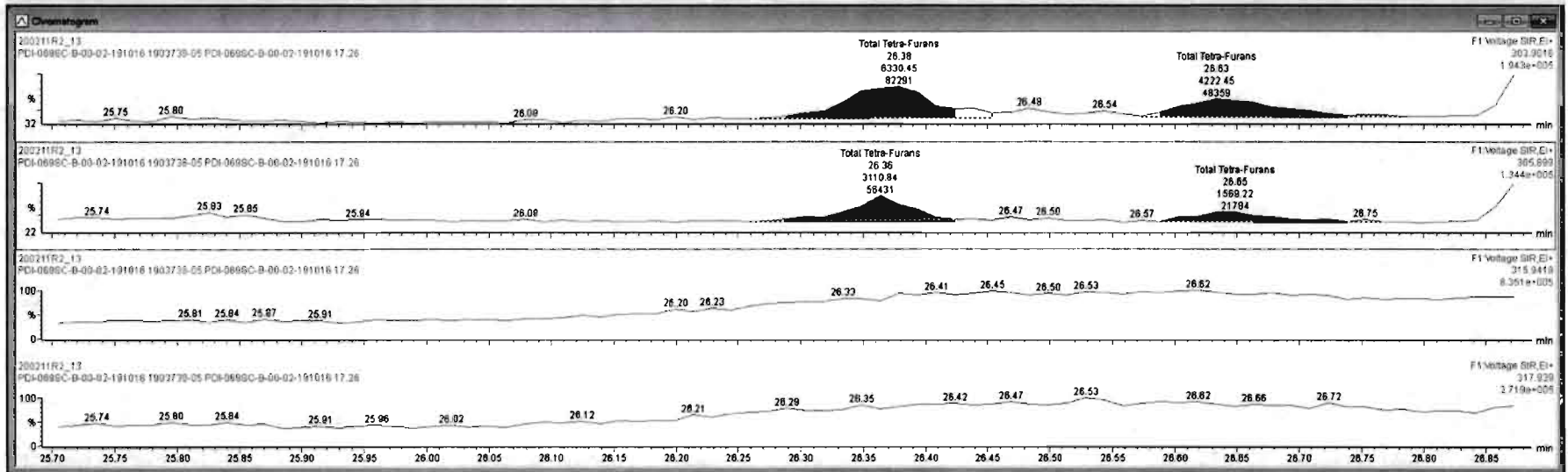
#	F	Name	Resp	RA	n/y	RR'	wJnd	Pred.RT	RT	Pred.RT	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
42	42	Total Hexa-Chloro				0.9231	10.065	37.64		0.000		NO	2214		1.12	2214
43	43	Total Tetra-Furans				0.6020	10.065	23.81		0.000		NO	847.1		0.348	848.0
44	44	1st Func. Peris-Furans				0.9074	10.065	27.09		0.000		NO	66.20		0.0722	66.20
45	45	Total Peris-Furans				0.9074	10.065	29.27		0.000		NO	1190		0.399	1192
46	46	Total Hexa-Furans				0.9997	10.065	71.68		0.000		NO	1374		0.343	1370

#	F	Name	Pred.RT	RT	w1 Resp	w2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc
1	43	Total Tetra-Furans	23.81	19.72	4.878e3	5.911e3	0.770	0.79	NO	0.95035	0.95035
2	43	Total Tetra-Furans	23.81	20.24	2.027e4	2.485e4	0.770	0.82	NO	4.0504	4.0504
3	43	Total Tetra-Furans	23.81	20.81	3.810e5	5.124e5	0.770	0.75	NO	80.258	80.258
4	43	Total Tetra-Furans	23.81	21.36	6.100e4	8.045e4	0.770	0.78	NO	12.897	12.897



#	Name	Resp	RA	n/y	FWF	ndVnl	Prod/RT	RT	Prod.R.	RST	RRT Fail	Conc.	%Inc	DL	EMPC
42	Total Hepta-Dioxine				0.9221	10.065	37.64		0.000		NO	2214		1.12	2214
43	Total Tetra-Furans				0.8022	10.065	23.81		0.000		NO	847.1		5.345	949.2
44	1st Func. Penta-Furans				0.9074	10.065	27.09		0.000		NO	66.20		0.0722	66.20
45	Total Penta-Furans				0.9074	10.065	29.27		0.000		NO	1190		0.399	1192
46	Total Hexa-Furans				0.9081	10.065	31.68		0.000		NO	1374		0.421	1376

#	Name	Prod/RT	RT	nd Resp	n2 Resp	± Ratio (Prod)	RA	n/y	EMPC	Conc
1	43 Total Tetra-Furans	23.81	18.72	4.876e3	5.811e3	0.770	0.79	NO	0.95035	0.95035
2	43 Total Tetra-Furans	23.81	20.24	7.027e4	2.486e4	0.770	0.82	NO	4.0604	4.0604
3	43 Total Tetra-Furans	23.81	20.81	3.816e5	5.124e5	0.770	0.75	NO	80.258	80.258
4	43 Total Tetra-Furans	23.81	21.38	8.100e4	8.045e4	0.770	0.78	NO	12.897	12.897

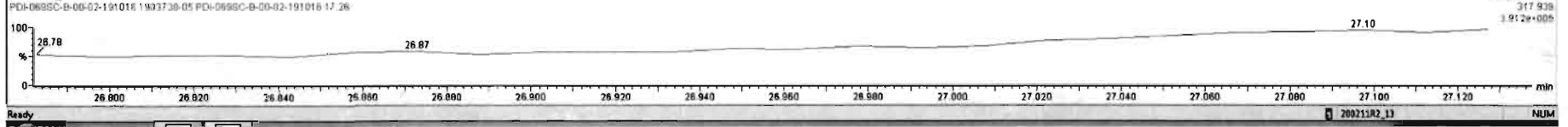
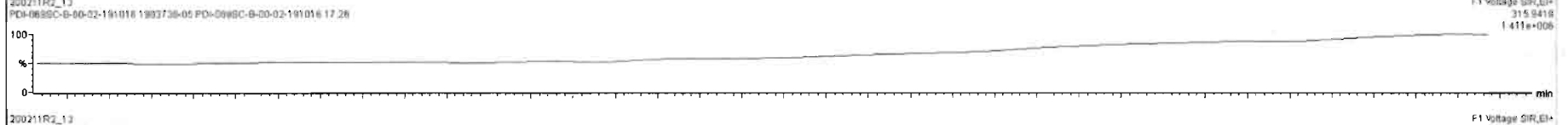
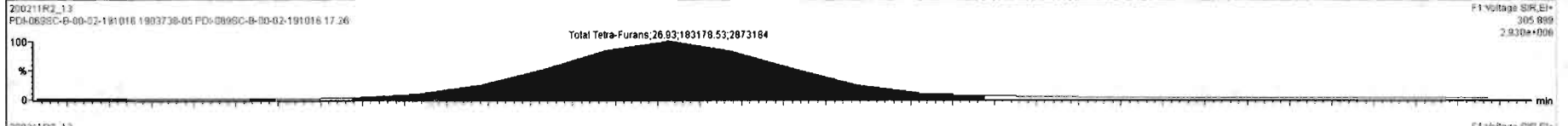
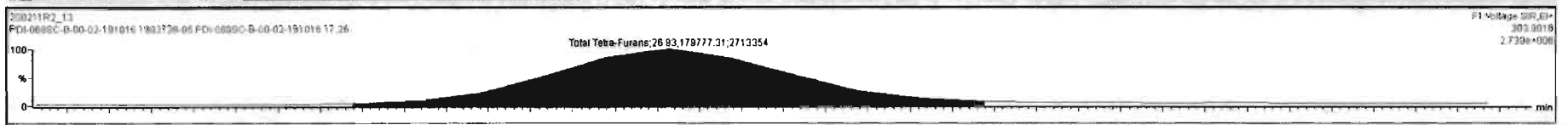


TargetLine.XS - 200211R2_13.yml - [Chromatogram]

File Edit View Display Processing Window Help

#	Name	Resp	RA	rv	100%	wtAve	Peak RT	RT	Peak R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
40	Total Penta-Dioxins				0.9723	10.065	29.86		0.000		NO	25.93		0.168	26.55
41	Total Hexa-Dioxins				0.9211	10.085	39.63		0.000		NO	334.2		0.381	334.2
42	Total Hexa-Dioxins				0.9231	10.085	37.84		0.000		NO	2214		1.12	2214
43	Total Tetra-Furans				0.9020	10.085	23.61		0.000		NO	947.3		0.365	977.5
44	1,2,3,7,8-PeCDF				0.9074	10.085	27.00		0.000		NO	88.30		0.0773	88.30

#	Name	Peak RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	rv	EMPC	Conc.
12	43 Total Tetra-Furans	23.61	23.97	1.430e6	1.900e6	0.770	0.75	NO	298.90	298.90
13	43 Total Tetra-Furans	23.61	24.25	5.180e4	6.872e4	0.770	0.75	NO	10.818	10.818
14	43 Total Tetra-Furans	23.61	24.48	1.180e4	1.571e4	0.770	0.75	NO	2.4700	2.4700
15	43 Total Tetra-Furans	23.61	24.69	1.481e4	1.905e4	0.770	0.78	NO	3.0394	3.0394
16	43 Total Tetra-Furans	23.61	24.78	9.077e4	1.214e5	0.770	0.75	NO	18.040	18.040
17	8 2,3,7,8-TCDF	24.91	24.91	1.503e6	1.998e6	0.770	0.75	NO	314.36	314.36
18	43 Total Tetra-Furans	23.61	25.29	6.122e4	8.245e4	0.770	0.74	NO	12.895	12.895
19	43 Total Tetra-Furans	23.61	25.54	1.420e4	1.975e4	0.770	0.72	NO	3.0476	3.0476
20	43 Total Tetra-Furans	23.61	26.38	6.300e3	3.111e3	0.770	2.04	YES	0.49423	0.00000
21	43 Total Tetra-Furans	23.61	26.63	4.222e3	1.569e3	0.770	2.68	YES	0.24531	0.00000
22	43 Total Tetra-Furans	23.61	26.93	1.798e5	1.632e5	0.770	0.98	YES	28.102	0.00000



Ready 200211R2_13 NUM

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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

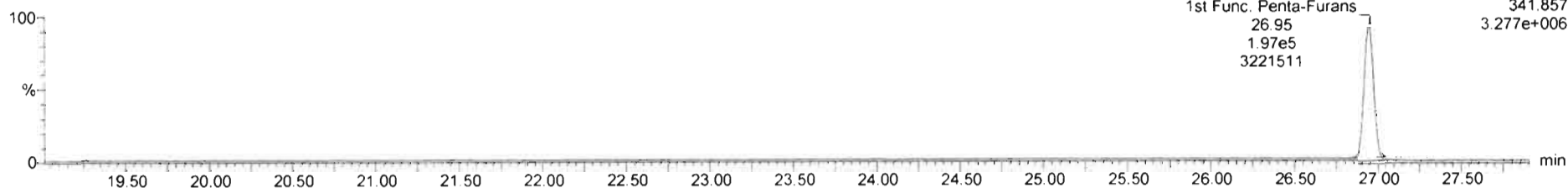
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1st Func. Penta-Furans

200211R2_13

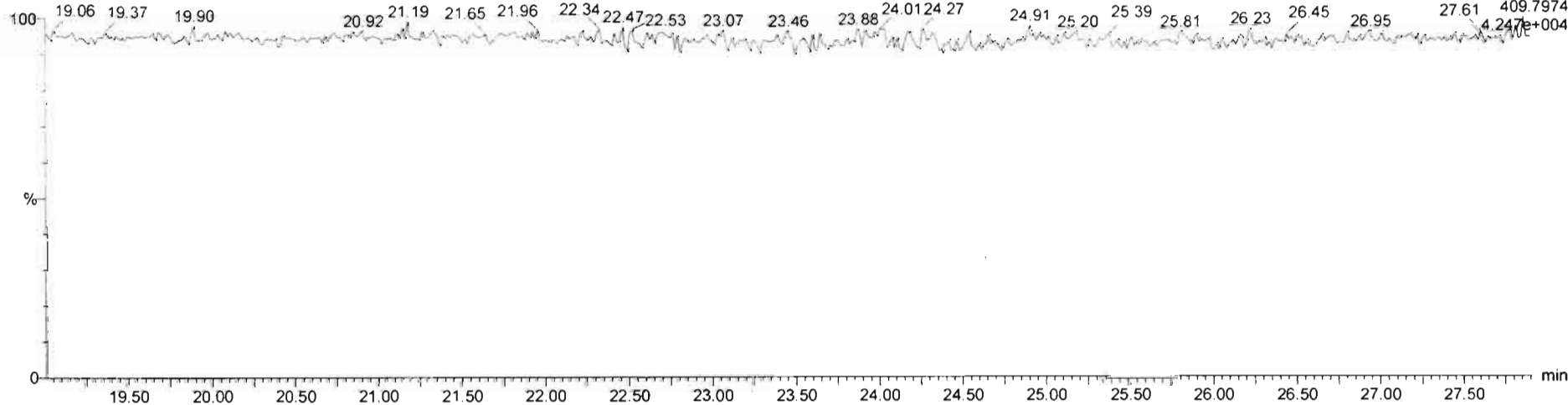


200211R2_13



DPE6

200211R2_13



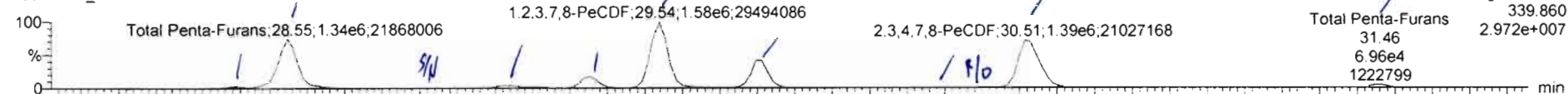
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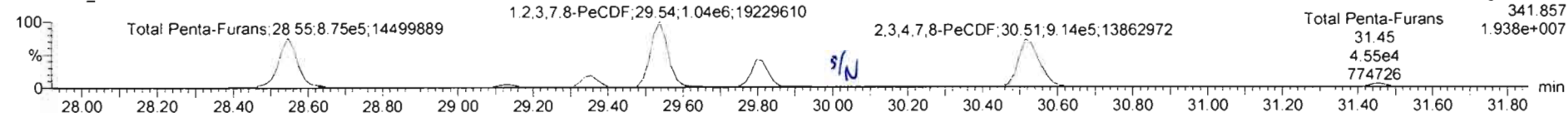
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1,2,3,7,8-PeCDF

200211R2_13

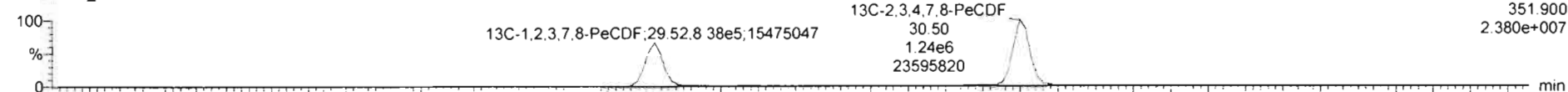


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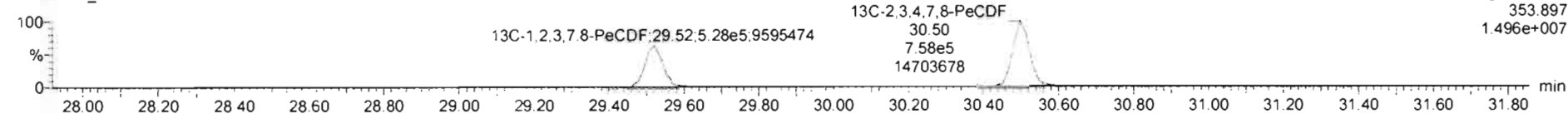


13C-1,2,3,7,8-PeCDF

200211R2_13

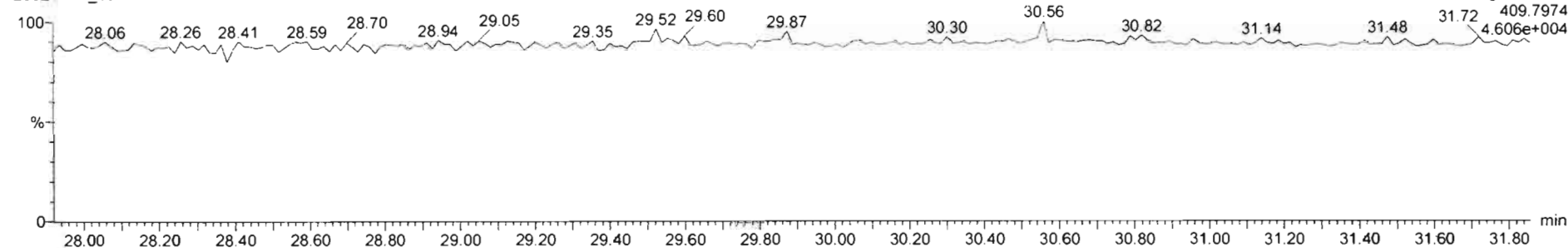


200211R2_13



DPE2

200211R2_13

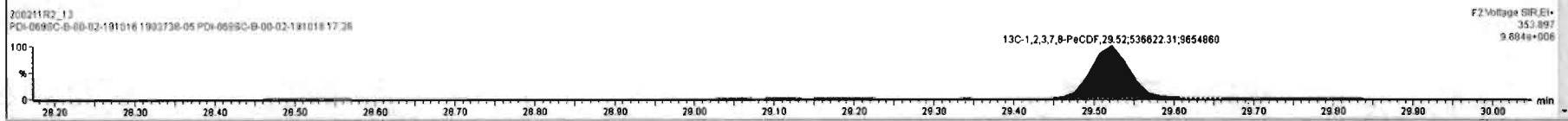
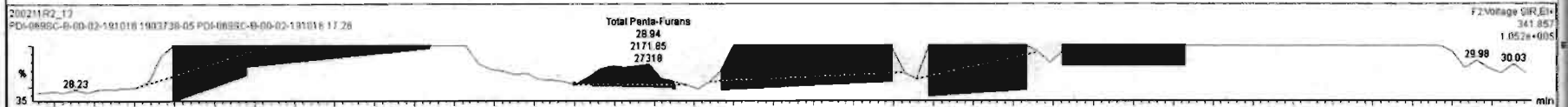
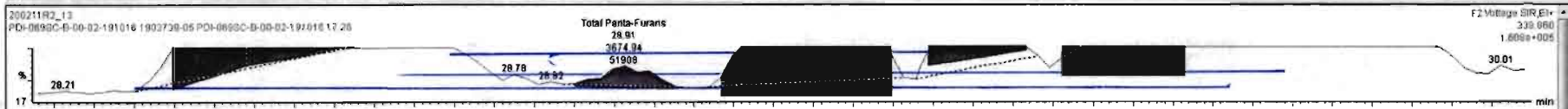


TargetWork5 - 200211R2-13.qtd - [Chromatogram]

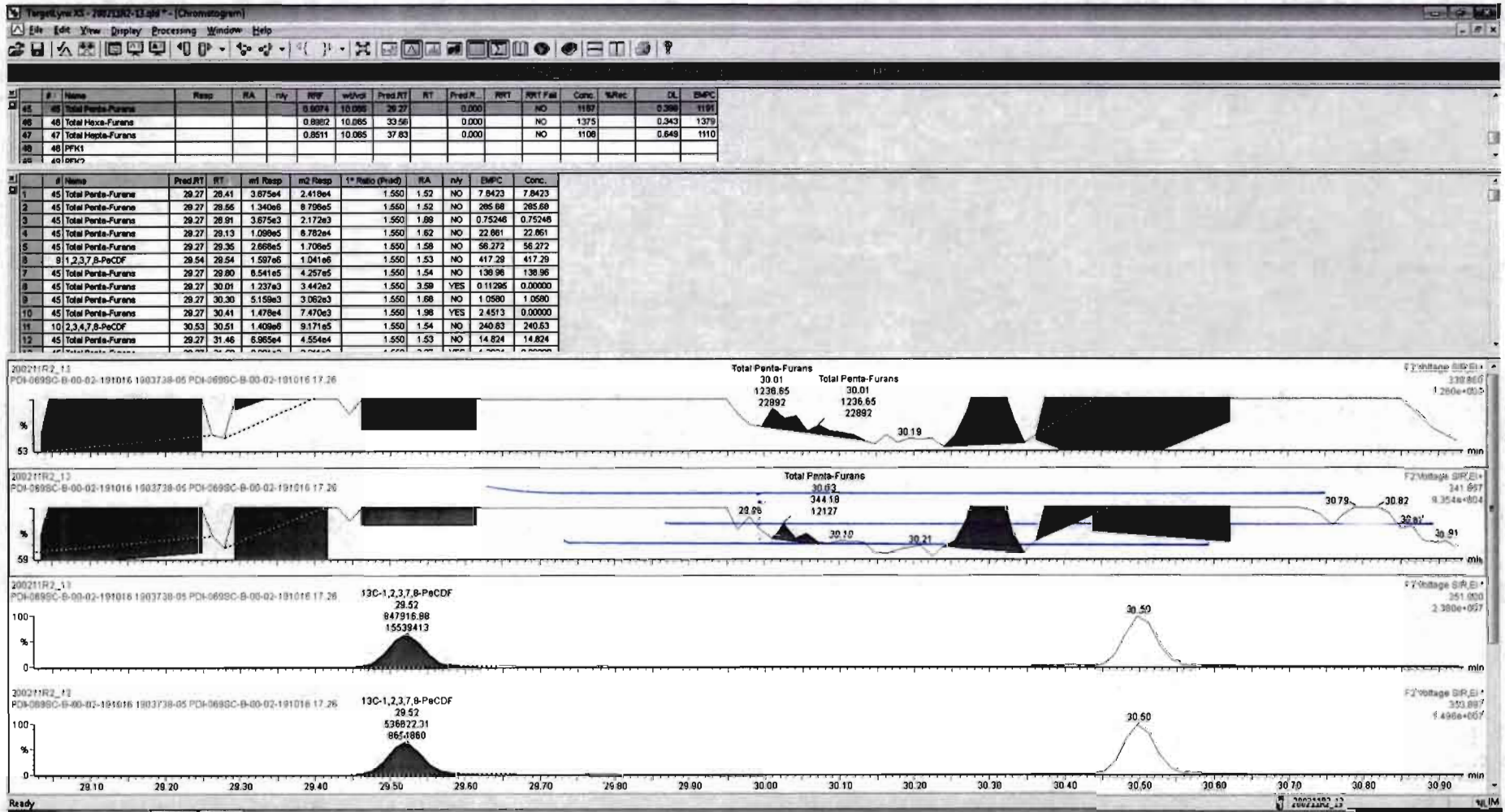
File Edit View Display Processing Window Help

#	Name	Resp	RA	nV	NRT	n/Acc	Prod.RT	RT	Prod.R	NRT	NRT.Fac	Conc.	%Acc	DL	EMPC
45	Total Penta-Furans				8.8074	10.085	28.27		0.000		NO	1188		0.388	1181
46	Total Hexa-Furans				0.0982	10.085	33.56		0.000		NO	1376		0.343	1379
47	Total Hepta-Furans				0.8511	10.085	37.83		0.000		NO	1108		0.648	1110
48	PK1														
49	PK2														

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc.
1	45 Total Penta-Furans	28.27	28.41	3.675e4	2.582e4	1.550	1.42	NO	8.0522	8.0522
2	45 Total Penta-Furans	28.27	28.55	1.340e6	8.844e5	1.550	1.52	NO	286.31	286.31
3	45 Total Penta-Furans	28.27	28.91	3.675e3	2.172e3	1.550	1.89	NO	0.75246	0.75246
4	45 Total Penta-Furans	28.27	28.13	1.088e5	6.782e4	1.550	1.62	NO	22.861	22.861
5	45 Total Penta-Furans	28.27	28.35	2.888e5	1.797e5	1.550	1.48	NO	57.436	57.436
6	1,2,3,7,8-PeCDF	28.54	28.54	1.587e6	1.041e6	1.550	1.53	NO	417.28	417.28
7	45 Total Penta-Furans	28.27	28.80	6.541e5	4.257e5	1.550	1.54	NO	138.98	138.98
8	45 Total Penta-Furans	28.27	30.30	5.158e3	3.062e3	1.550	1.88	NO	1.0580	1.0580
9	45 Total Penta-Furans	28.27	30.41	1.478e4	8.185e3	1.550	1.81	YES	2.8794	0.00000
10	1,2,3,4,7,8-PeCDF	30.53	30.51	1.408e6	8.171e5	1.550	1.54	NO	240.63	240.63
11	45 Total Penta-Furans	28.27	31.46	8.985e4	4.554e4	1.550	1.53	NO	14.824	14.824



Ready 200211R2_13 NUM

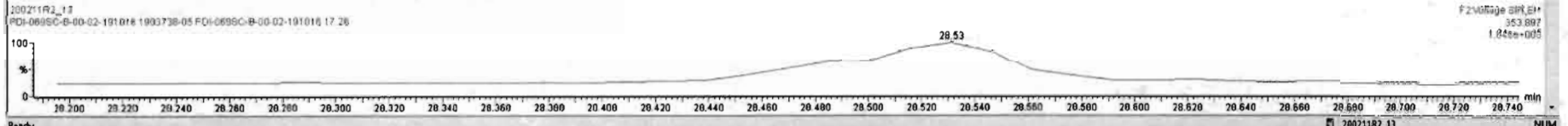
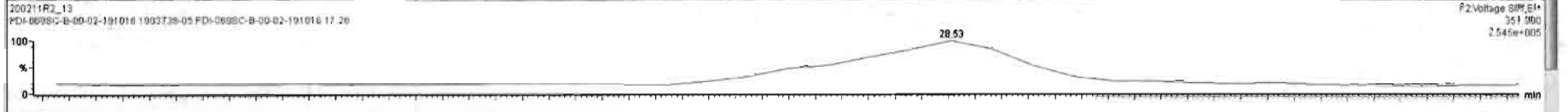
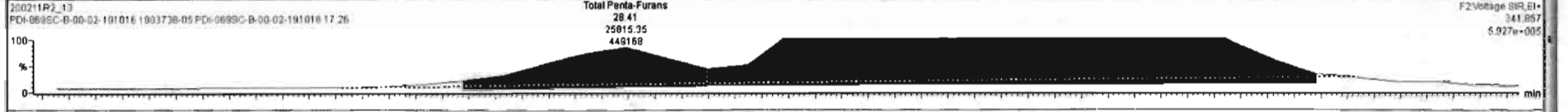
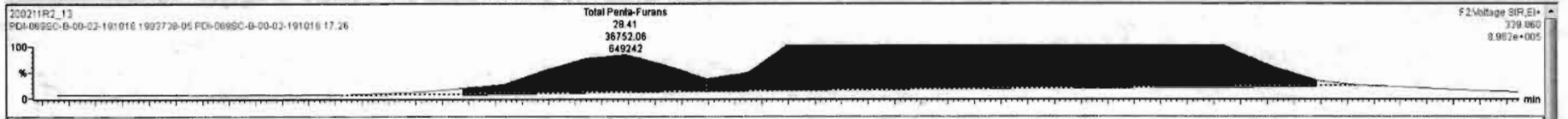


Targetlynx.XS - 200211R2_13.apd - [Chromatogram]

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#	Name	Resp	RA	n/y	n/y	w/Avl	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
45	Total Penta-Furans					0.9074	10.065	29.27	0.000		NO	1196		0.389	1191
46	Total Hexa-Furans					0.9992	10.065	33.56	0.000		NO	1375		0.343	1379
47	Total Hepta-Furans					0.9511	10.065	37.83	0.000		NO	1108		0.648	1110
48	PFK1														
49	PFK2														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	45 Total Penta-Furans	29.27	28.41	3.675e4	2.582e4	1.550	1.42	NO	8.0522	8.0522
2	45 Total Penta-Furans	29.27	28.55	1.340e6	8.844e5	1.550	1.52	NO	286.31	286.31
3	45 Total Penta-Furans	29.27	28.91	3.675e3	2.172e3	1.550	1.88	NO	0.75246	0.75246
4	45 Total Penta-Furans	29.27	29.13	1.089e5	6.782e4	1.550	1.62	NO	22.861	22.861
5	45 Total Penta-Furans	29.27	28.35	2.866e5	1.797e5	1.550	1.48	NO	57.436	57.436
6	8 1,2,3,7,8-PeCDF	29.54	29.54	1.587e8	1.041e8	1.550	1.53	NO	417.29	417.29
7	45 Total Penta-Furans	29.27	29.80	8.541e5	4.257e5	1.550	1.54	NO	138.98	138.98
8	45 Total Penta-Furans	29.27	30.30	5.159e3	3.082e3	1.550	1.88	NO	1.0590	1.0590
9	45 Total Penta-Furans	29.27	30.41	1.478e4	8.185e3	1.550	1.81	YES	2.8794	0.00000
10	10 2,3,4,7,8-PeCDF	30.53	30.51	1.409e8	9.171e5	1.550	1.54	NO	240.83	240.83
11	45 Total Penta-Furans	29.27	31.48	8.885e4	4.554e4	1.550	1.53	NO	14.824	14.824



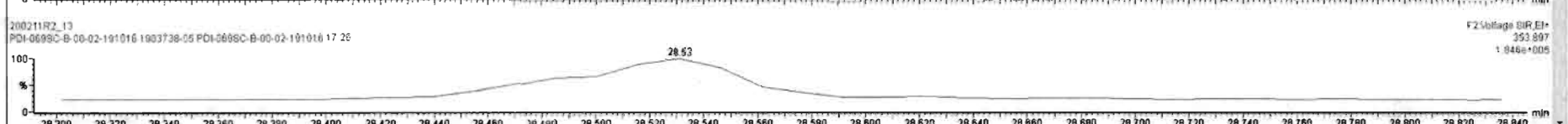
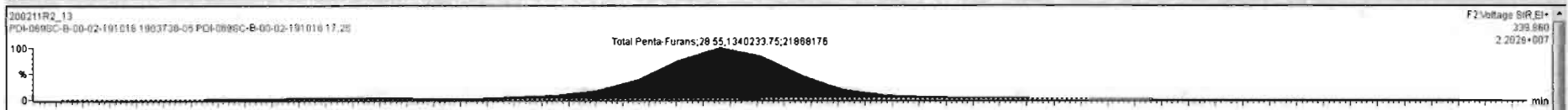
TargeLynx KS - 190211R2-13.gid* - [Chromatogram]

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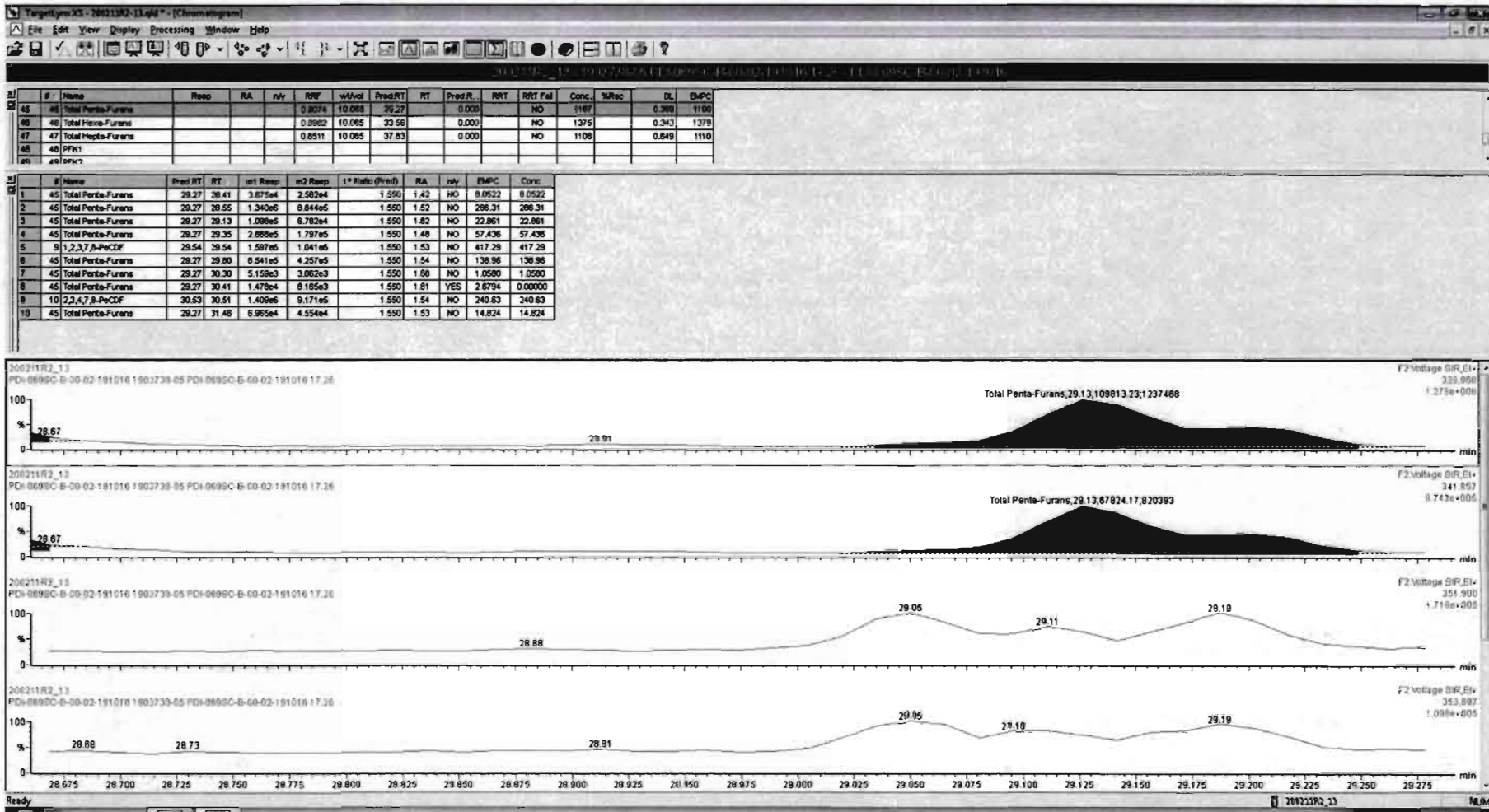
200211R2_13 1903738-05 PDI-0699C-B-00-02-191016 17.26

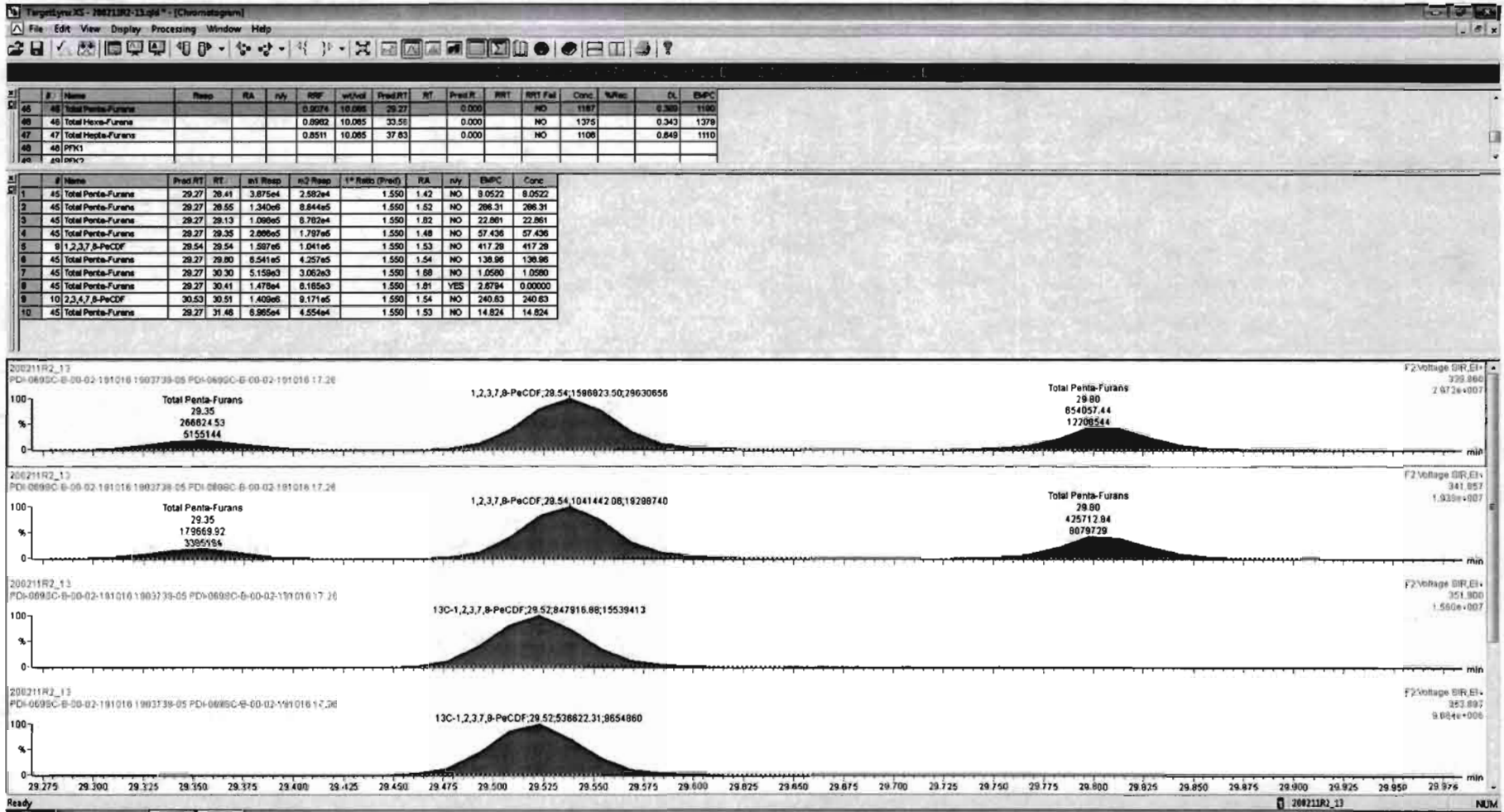
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45	Total Penta-Furans				0.8974	10.085	29.27		0.000		NO	1195		0.399	1191
46	Total Hexa-Furans				0.8962	10.085	33.56		0.000		NO	1375		0.343	1379
47	Total Hepta-Furans				0.8511	10.085	37.83		0.000		NO	1109		0.649	1110
48	PFK1														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc
1	45 Total Penta-Furans	29.27	28.41	3.875e4	2.592e4	1.550	1.42	NO	8.0522	8.0522
2	45 Total Penta-Furans	29.27	28.55	1.340e6	8.844e5	1.550	1.52	NO	286.31	286.31
3	45 Total Penta-Furans	29.27	28.91	3.875e3	2.172e3	1.550	1.69	NO	0.75246	0.75246
4	45 Total Penta-Furans	29.27	29.13	1.098e5	6.782e4	1.550	1.62	NO	22.861	22.861
5	45 Total Penta-Furans	29.27	29.35	2.868e5	1.797e5	1.550	1.48	NO	57.436	57.436
6	9 1,2,3,7,8-PeCDF	29.54	29.54	1.597e6	1.041e6	1.550	1.53	NO	417.29	417.29
7	45 Total Penta-Furans	29.27	29.80	6.541e5	4.257e5	1.550	1.54	NO	136.96	136.96
8	45 Total Penta-Furans	29.27	30.30	5.159e3	3.062e3	1.550	1.69	NO	1.0580	1.0580
9	45 Total Penta-Furans	29.27	30.41	1.478e4	8.165e3	1.550	1.81	YES	2.6794	0.00000
10	10 2,3,4,7,8-PeCDF	30.53	30.51	1.409e6	9.171e5	1.550	1.54	NO	240.63	240.63
11	45 Total Penta-Furans	29.27	31.46	6.865e4	4.554e4	1.550	1.53	NO	14.824	14.824



Ready 200211R2_13 NUM





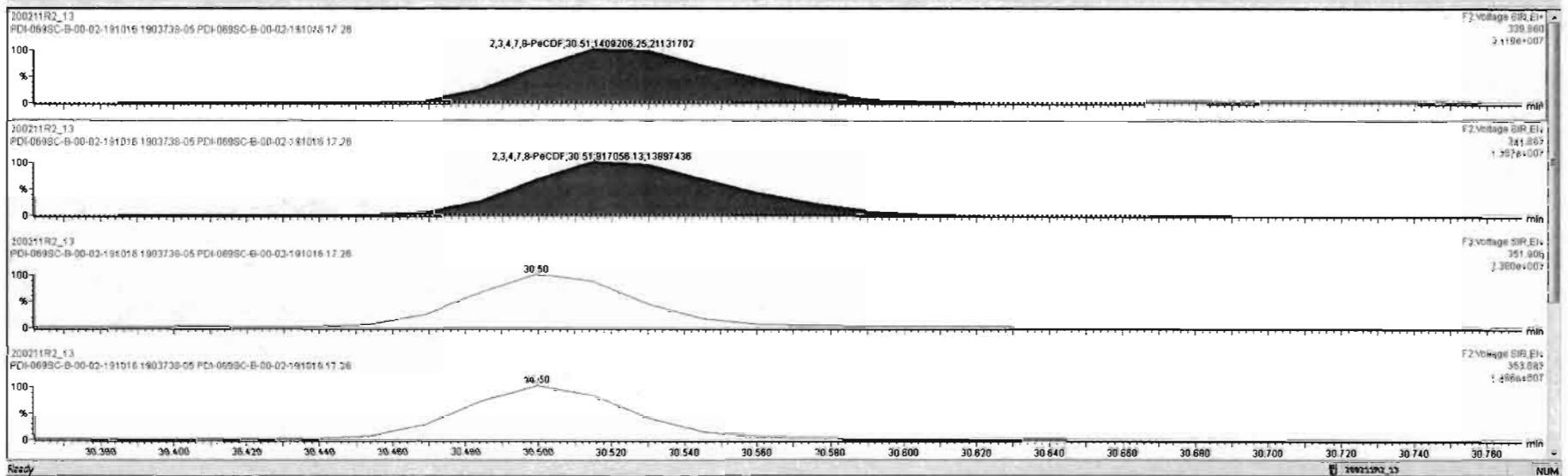
TargetLynx XS - 200211R2-13.d (d) - [Chromatogram]

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200211R2_13.D\F1012601.F\10093C-B-00-02-191016-05.PDF\093C-B-00-02-191016-17.D

#	Name	Resp	RA	n/y	RP	wVal	Pred RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
46	Total Penta-Furans				0.0076	10.065	29.27		0.000		NO	1167		0.385	1190
48	Total Hexa-Furans				0.0992	10.065	33.58		0.000		NO	1375		0.343	1379
47	Total Hepta-Furans				0.0511	10.065	37.83		0.000		NO	1108		0.849	1110
49	PFK1														
40	PFK2														

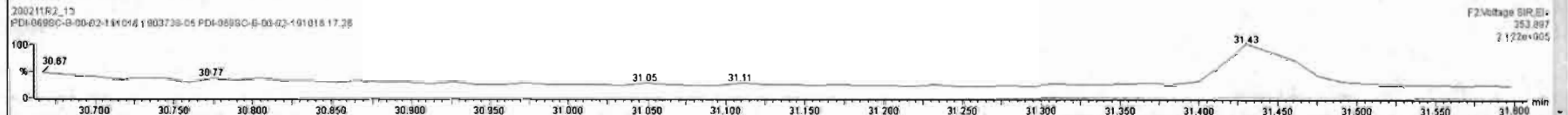
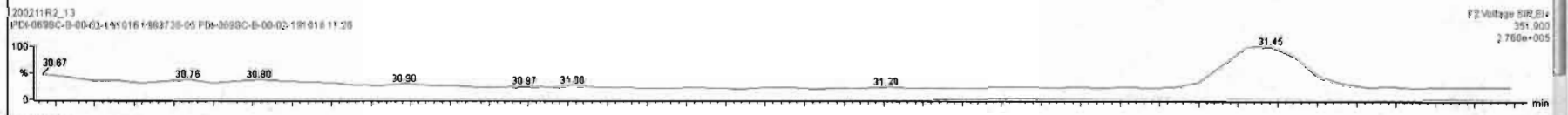
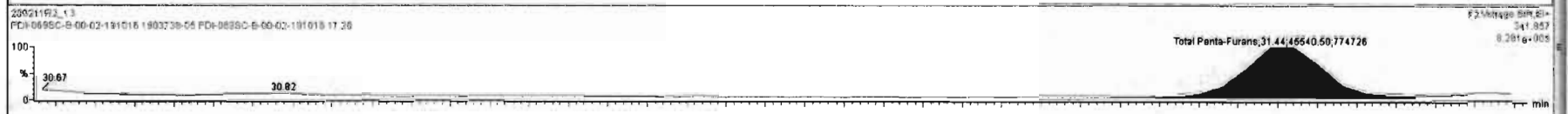
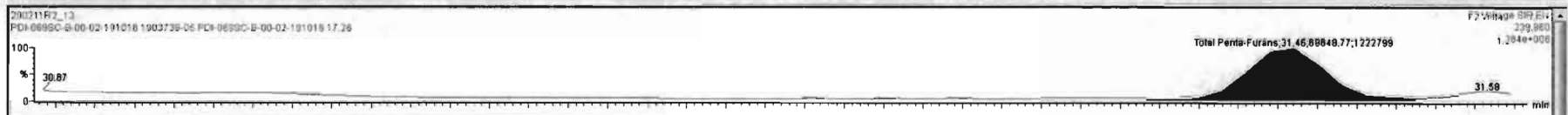
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc
1	Total Penta-Furans	29.27	28.41	3.875e4	2.982e4	1.550	1.42	NO	0.0522	0.0522
2	Total Penta-Furans	29.27	28.55	1.340e6	8.844e5	1.550	1.52	NO	286.31	286.31
3	Total Penta-Furans	29.27	29.13	1.099e5	6.782e4	1.550	1.82	NO	22.861	22.861
4	Total Penta-Furans	29.27	29.35	2.859e5	1.797e5	1.550	1.48	NO	57.436	57.436
5	1,2,3,7,8-PeCDF	29.54	29.54	1.587e6	1.041e6	1.550	1.53	NO	417.29	417.29
6	Total Penta-Furans	29.27	29.80	6.541e5	4.257e5	1.550	1.54	NO	138.96	138.96
7	Total Penta-Furans	29.27	30.30	5.159e3	3.062e3	1.550	1.88	NO	1.0580	1.0580
8	Total Penta-Furans	29.27	30.41	1.478e4	8.185e3	1.550	1.81	YES	2.6794	0.00000
9	1,2,3,4,7,8-PeCDF	30.53	30.51	1.409e6	9.171e5	1.550	1.54	NO	240.63	240.63
10	Total Penta-Furans	29.27	31.48	6.865e4	4.554e4	1.550	1.53	NO	14.824	14.824



Targetlyn GC - 200211R2_13.d - [Chromatogram]
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#	Name	Resp	RA	n/y	RPY	wtAvd	Prod RT	RT	Prod R...	RRT	RRT Fd	Canc	%Rec	DL	EMPC
45	Total Penta-Furans				0.0074	10.006	29.27		0.000		NO	1167		5.369	1190
46	Total Hexa-Furans				0.0052	10.065	33.56		0.000		NO	1375		0.343	1379
47	Total Hepta-Furans				0.0511	10.065	37.83		0.000		NO	1108		0.648	1110
48	DPK1														
49	461.DW3														

#	Name	Prod RT	RT	m1 Resp	m2 Resp	1* Ratio (Prod)	RA	n/y	EMPC	Canc.
1	Total Penta-Furans	29.27	28.41	3.675e4	2.582e4	1.550	1.42	NO	8.0522	8.0522
2	Total Penta-Furans	29.27	28.55	1.340e6	8.844e5	1.550	1.52	NO	286.31	286.31
3	Total Penta-Furans	29.27	28.13	1.098e5	6.782e4	1.550	1.82	NO	22.861	22.861
4	Total Penta-Furans	29.27	28.35	2.698e5	1.787e5	1.550	1.48	NO	57.436	57.436
5	1,2,3,7,8-PeCDF	28.64	28.54	1.587e6	1.041e6	1.550	1.53	NO	417.29	417.29
6	Total Penta-Furans	29.27	28.80	6.541e5	4.257e5	1.550	1.54	NO	138.96	138.96
7	Total Penta-Furans	29.27	30.30	5.159e3	3.062e3	1.550	1.68	NO	1.0580	1.0580
8	Total Penta-Furans	29.27	30.41	1.478e4	8.165e3	1.550	1.81	YES	2.8794	0.00000
9	1,2,3,4,7,8-PeCDF	30.53	30.51	1.409e6	9.171e5	1.550	1.54	NO	240.83	240.83
10	Total Penta-Furans	29.27	31.48	6.965e4	4.554e4	1.550	1.53	NO	14.824	14.824



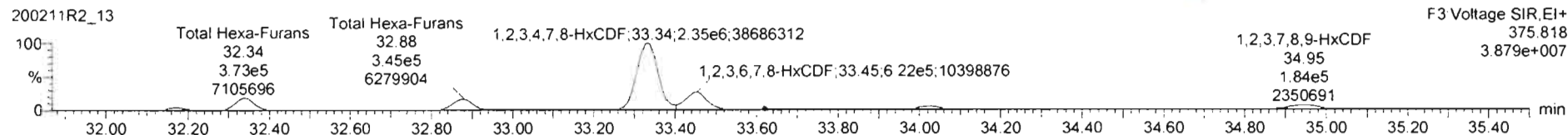
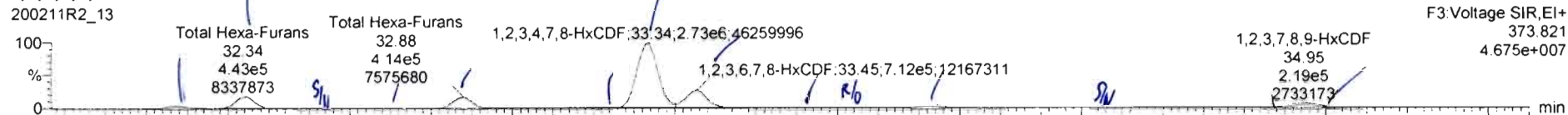
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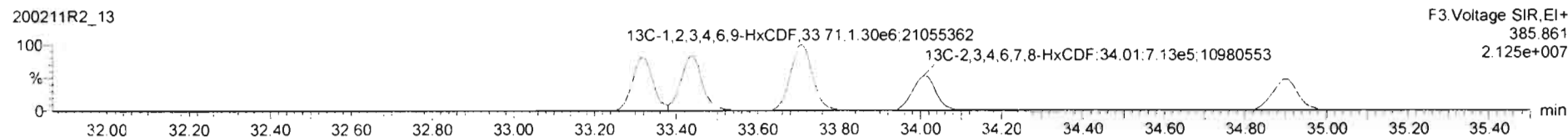
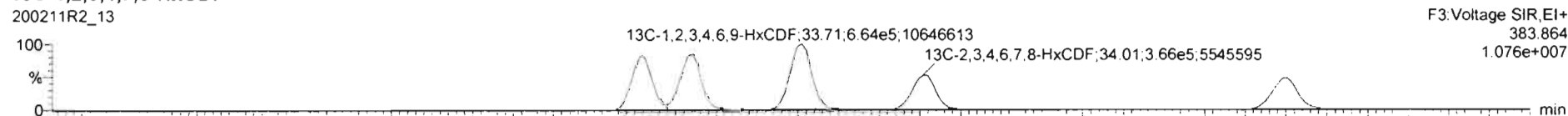
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Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

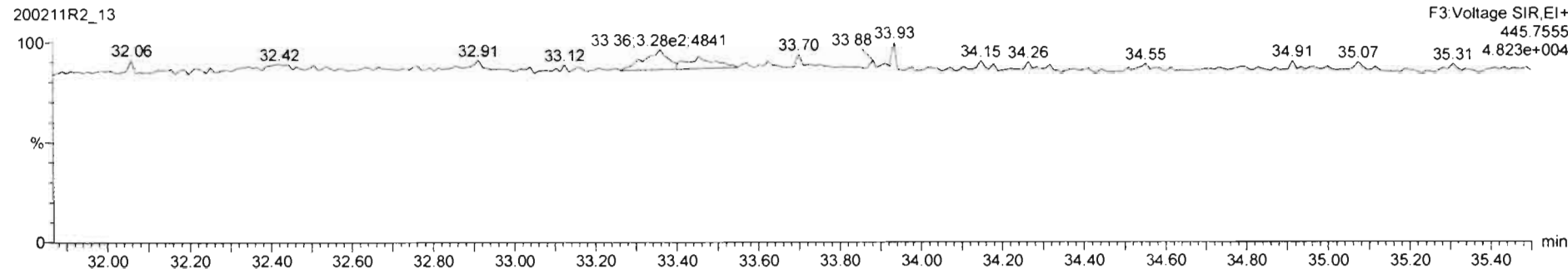
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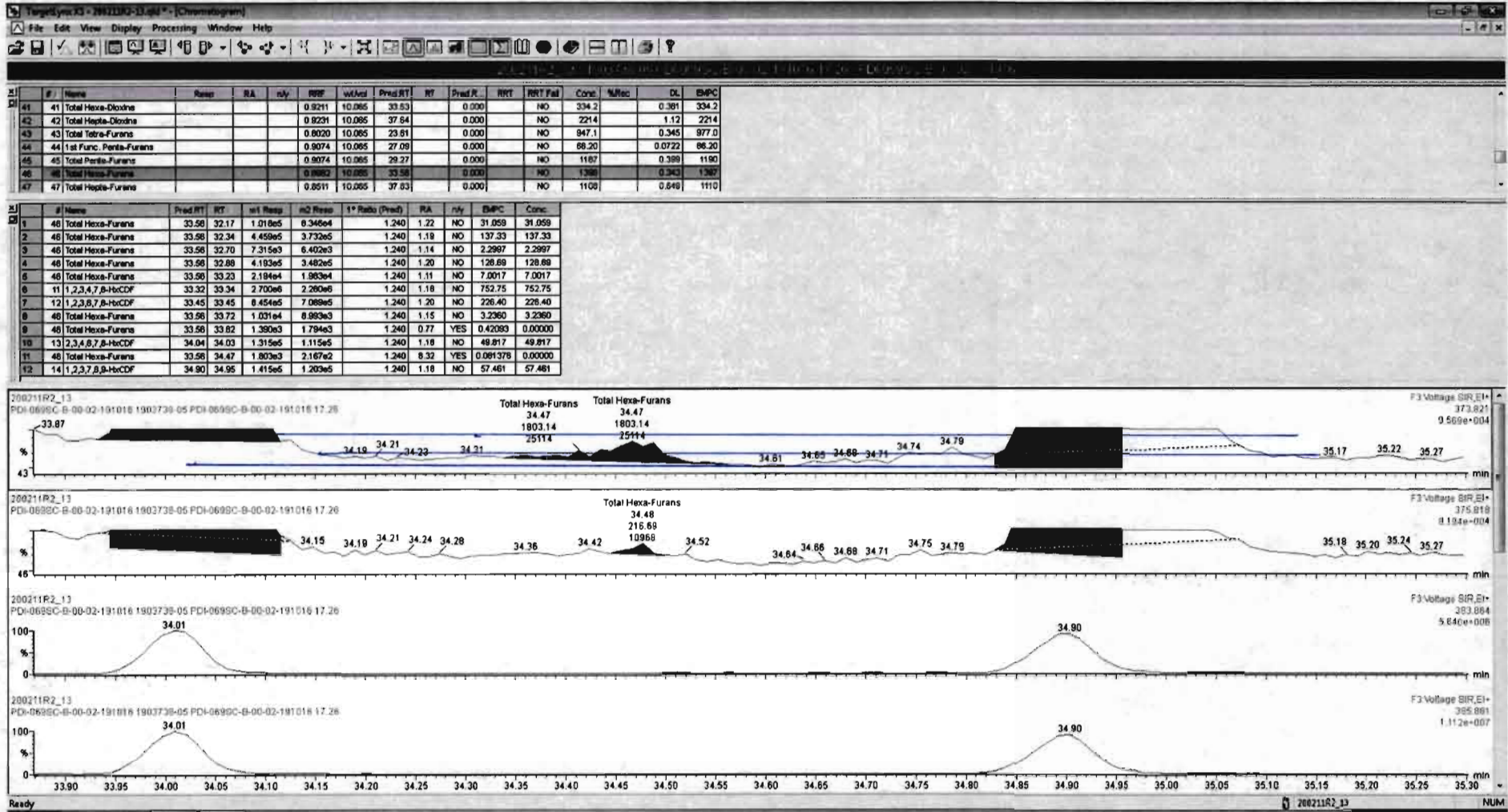


13C-1,2,3,4,7,8-HxCDF



DPE3



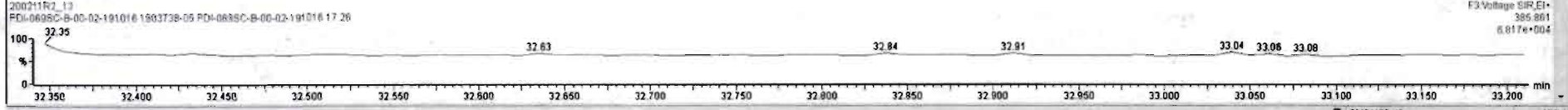
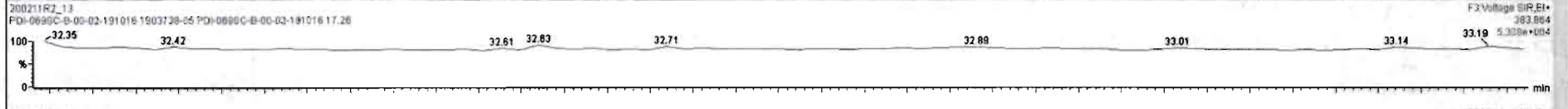
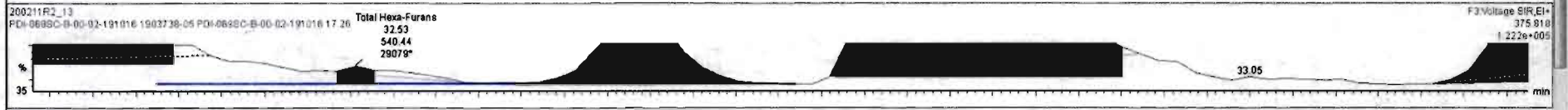
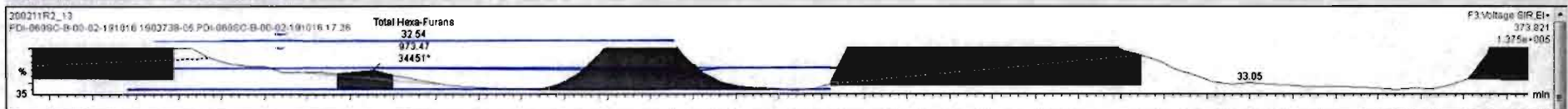


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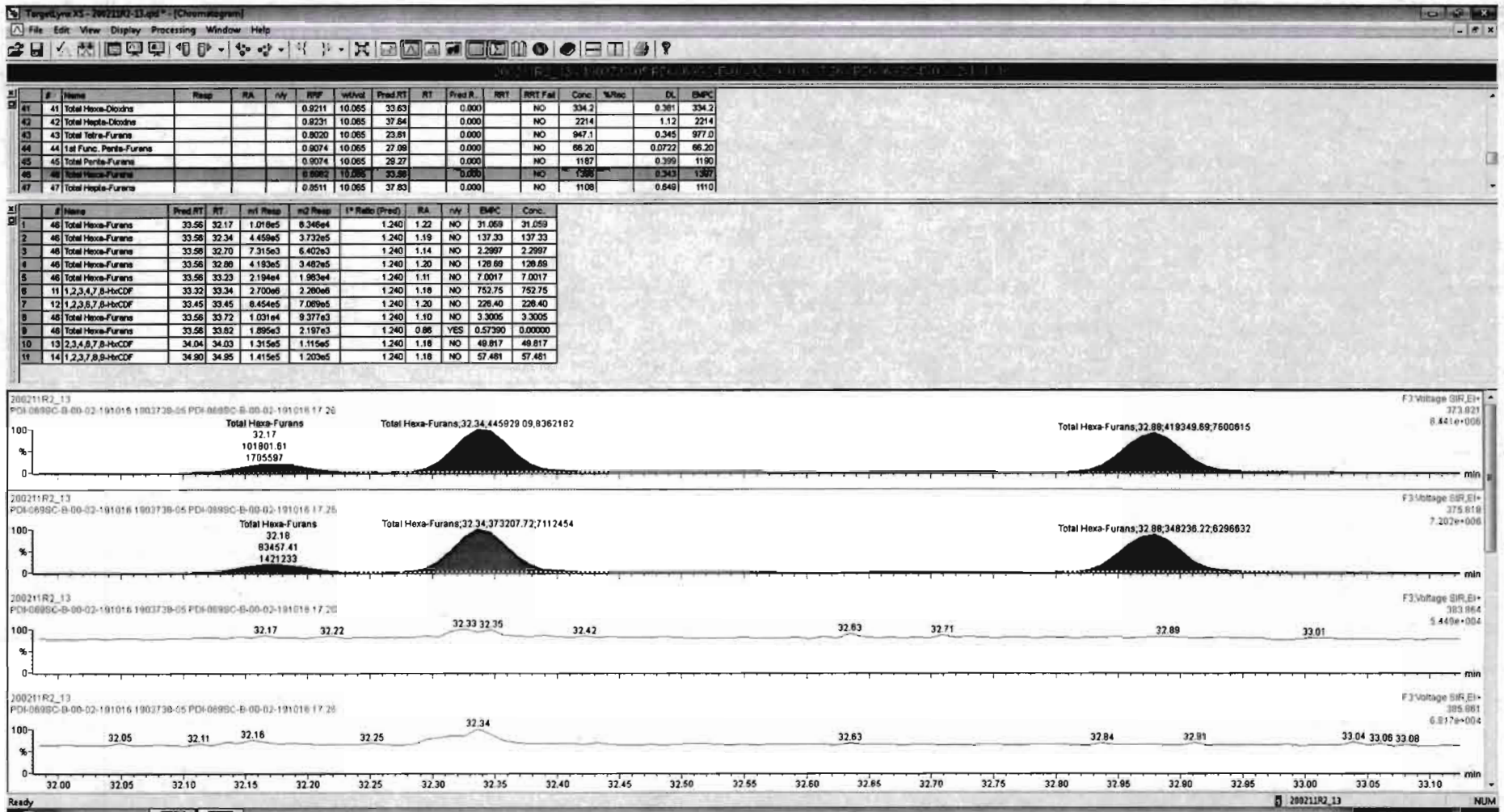
File Edit View Display Processing Window Help

#	Name	Resp	RA	n/y	RP	wVoi	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins		0.9211		10.065	33.63		0.000		NO		334.2		0.381	334.2
42	Total Hepta-Dioxins		0.9231		10.065	37.84		0.000		NO		2214		1.12	2214
43	Total Tetra-Furans		0.8020		10.065	23.61		0.000		NO		947.1		0.345	977.0
44	1st Func. Penta-Furans		0.9074		10.065	27.09		0.000		NO		86.20		0.0722	86.20
45	Total Penta-Furans		0.9074		10.065	29.27		0.000		NO		1187		0.399	1180
46	Total Hexa-Furans		0.8982		10.065	32.88		0.000		NO		1382		0.343	1388
47	Total Hepta-Furans		0.8511		10.065	37.83		0.000		NO		1108		0.649	1110

#	Name	Pred RT	RT	Int Resp	Int2 Resp	1st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	33.56	32.17	1.018e5	6.346e4	1.240	1.22	NO	31.059	31.059
2	Total Hexa-Furans	33.56	32.34	4.458e5	3.732e5	1.240	1.19	NO	137.33	137.33
3	Total Hexa-Furans	33.56	32.54	5.020e2	5.536e2	1.240	0.91	YES	0.15200	0.00000
4	Total Hexa-Furans	33.56	32.70	7.315e3	6.402e3	1.240	1.14	NO	2.3000	2.2997
5	Total Hexa-Furans	33.56	32.88	4.193e5	3.451e5	1.240	1.22	NO	128.15	128.15
6	Total Hexa-Furans	33.56	33.23	2.194e4	1.983e4	1.240	1.11	NO	7.0020	7.0017
7	1,2,3,4,7,8-HxCDF	33.32	33.34	2.700e6	2.280e6	1.240	1.18	NO	752.75	752.75
8	1,2,3,6,7,8-HxCDF	33.45	33.45	8.454e5	7.069e5	1.240	1.20	NO	226.40	226.40
9	Total Hexa-Furans	33.56	33.72	8.357e3	6.993e3	1.240	1.04	YES	2.8340	0.00000
10	Total Hexa-Furans	33.56	33.82	1.794e3	1.794e3	1.240	1.00	YES	0.54300	0.00000
11	2,3,4,6,7,8-HxCDF	34.04	34.03	1.315e5	1.102e5	1.240	1.19	NO	49.538	49.538
12	Total Hexa-Furans	33.56	34.47	1.803e3	2.187e2	1.240	0.32	YES	0.081000	0.00000

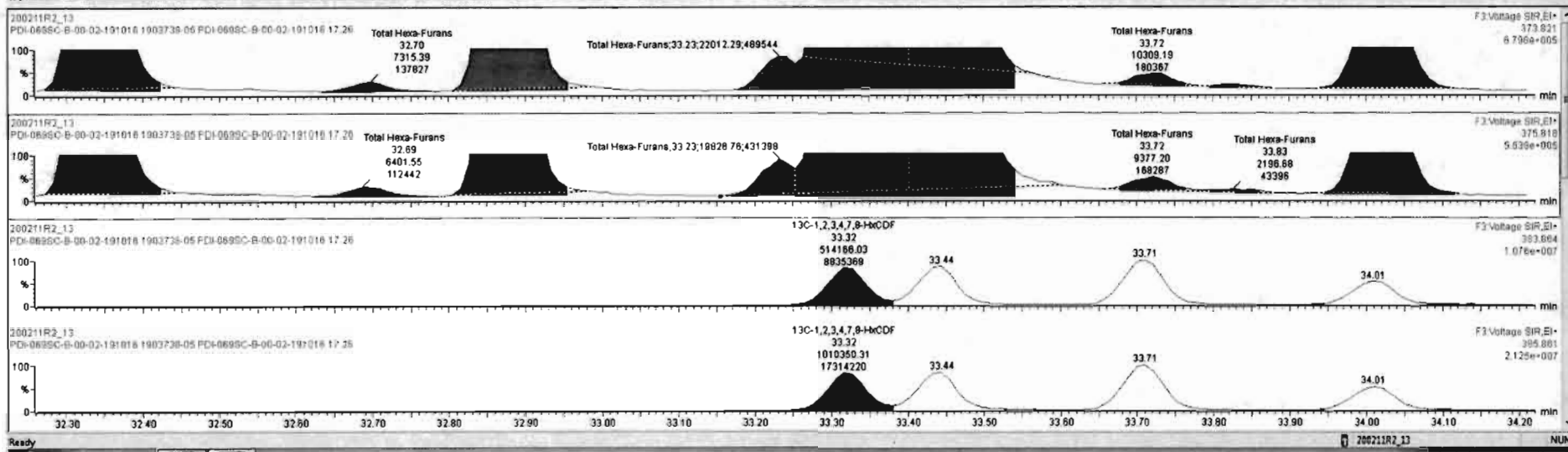


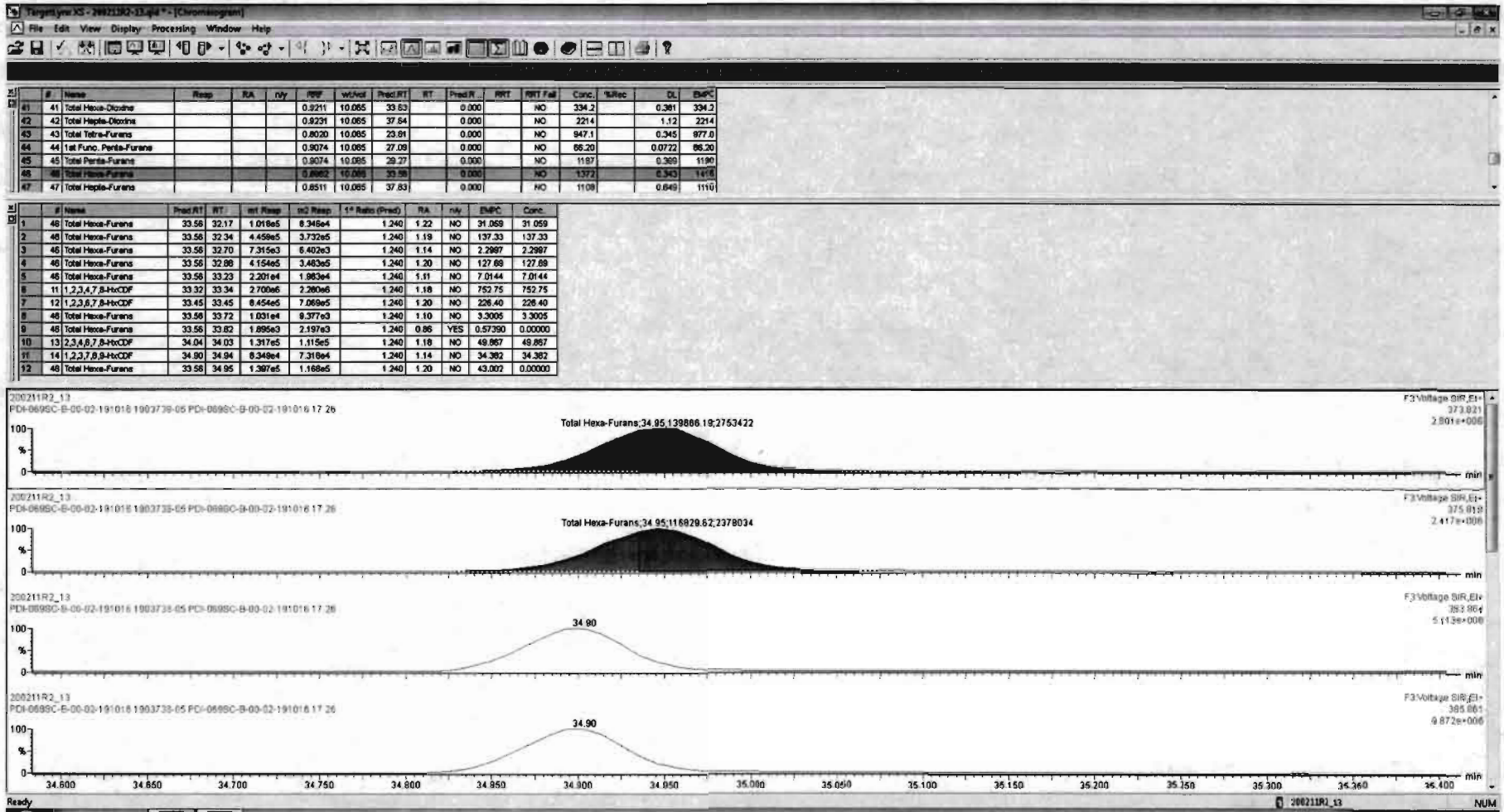
Ready 200211R2_13 NUM



#	Name	Resp	RA	n/y	RRF	wtAvd	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	10.065	33.63		0.000	NO		334.2	0.391	334.2	
42	Total Hepta-Dioxins				0.9231	10.065	37.64		0.000	NO		2214	1.12	2214	
43	Total Tetra-Furans				0.9020	10.065	23.61		0.000	NO		947.1	0.345	977.0	
44	1st Func. Penta-Furans				0.9074	10.065	27.09		0.000	NO		66.20	0.0722	66.20	
45	Total Penta-Furans				0.9074	10.065	29.27		0.000	NO		1187	0.399	1190	
46	Total Hexa-Furans				0.8962	10.065	33.56		0.000	NO		1365	0.543	1368	
47	Total Hepta-Furans				0.8511	10.065	37.83		0.000	NO		1106	0.649	1110	

#	Name	Pred RT	RT	ret Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc
1	46 Total Hexa-Furans	33.56	32.17	1.018e5	6.346e4	1.240	1.22	NO	31.059	31.059
2	46 Total Hexa-Furans	33.56	32.34	4.459e5	3.732e5	1.240	1.19	NO	137.33	137.33
3	46 Total Hexa-Furans	33.56	32.70	7.315e3	6.402e3	1.240	1.14	NO	2.2997	2.2997
4	46 Total Hexa-Furans	33.56	32.88	4.154e5	3.463e5	1.240	1.20	NO	127.89	127.89
5	46 Total Hexa-Furans	33.56	33.23	2.201e4	1.983e4	1.240	1.11	NO	7.0144	7.0144
6	11 1,2,3,4,7,8-HxCDF	33.32	33.34	2.700e6	2.280e6	1.240	1.18	NO	752.75	752.75
7	12 1,2,3,4,7,8-HxCDF	33.45	33.45	8.454e5	7.089e5	1.240	1.20	NO	226.40	226.40
8	46 Total Hexa-Furans	33.56	33.72	1.031e4	8.377e3	1.240	1.10	NO	3.3005	3.3005
9	46 Total Hexa-Furans	33.56	33.82	1.895e3	2.197e3	1.240	0.86	YES	0.57360	0.00000
10	13 1,2,3,4,6,7,8-HxCDF	34.04	34.03	1.317e5	1.115e5	1.240	1.18	NO	49.867	49.867
11	14 1,2,3,7,8-HxCDF	34.90	34.95	1.415e5	1.203e5	1.240	1.18	NO	57.461	57.461





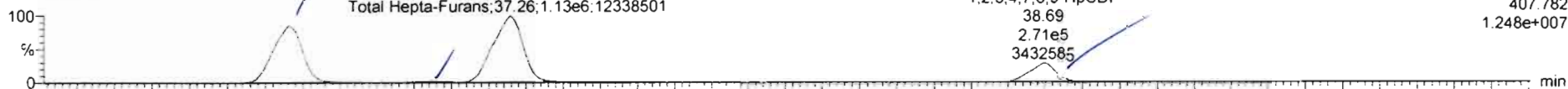
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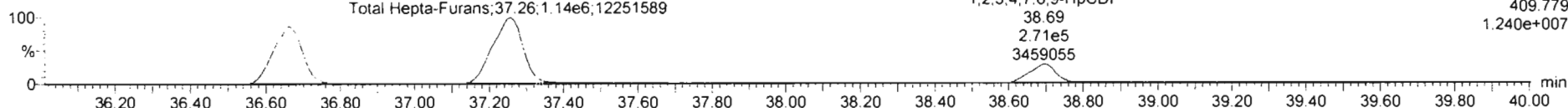
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1,2,3,4,6,7,8-HpCDF

200211R2_13

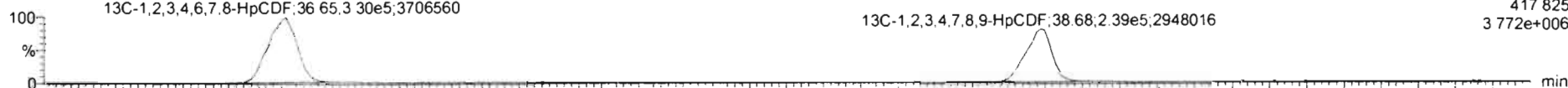


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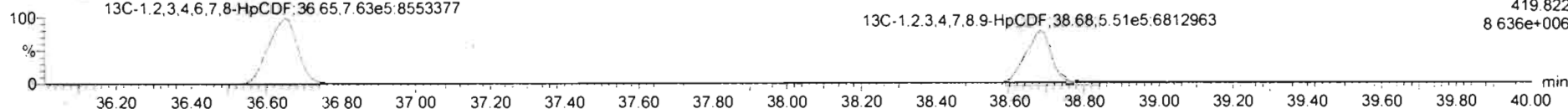


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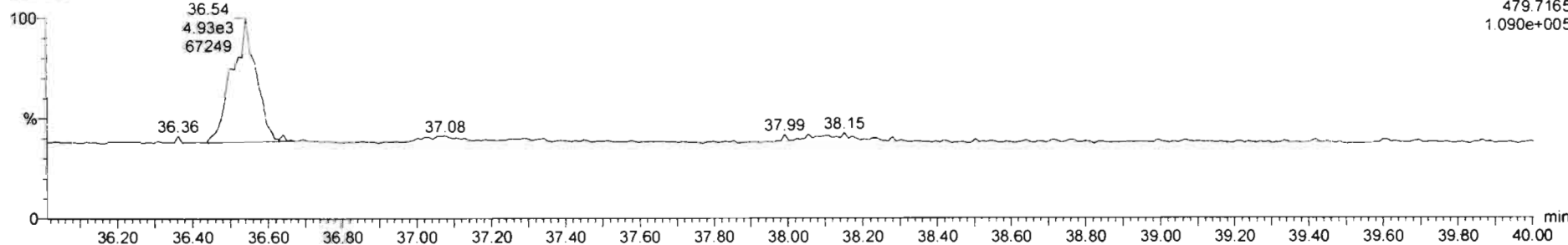


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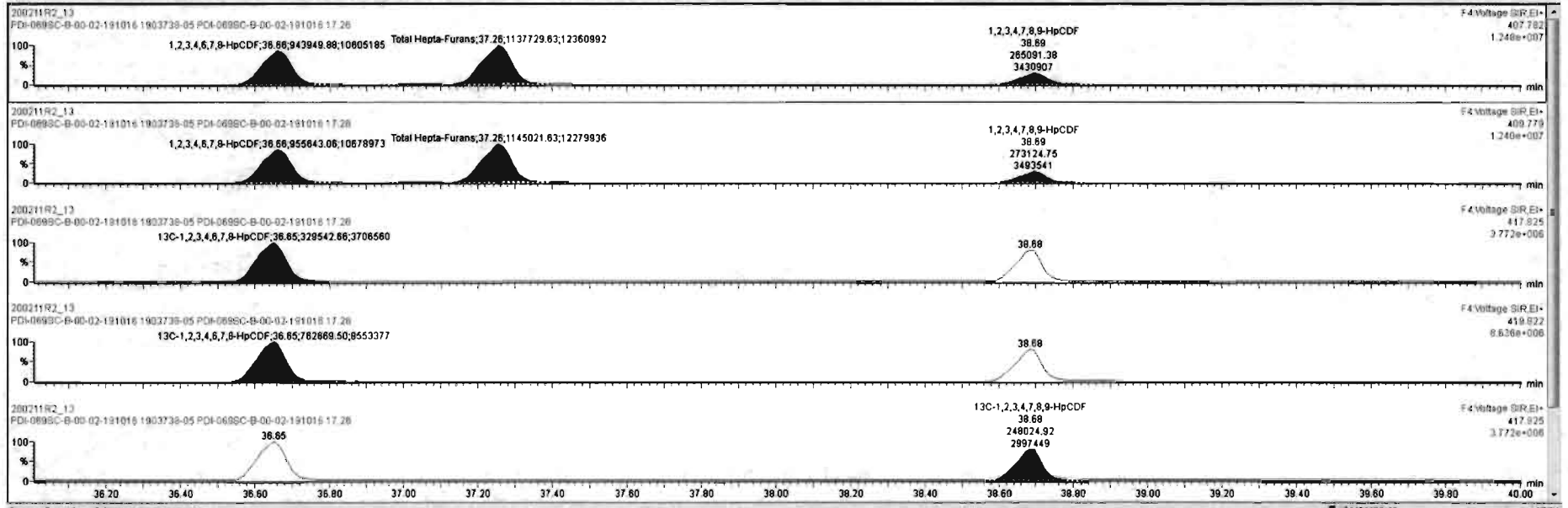
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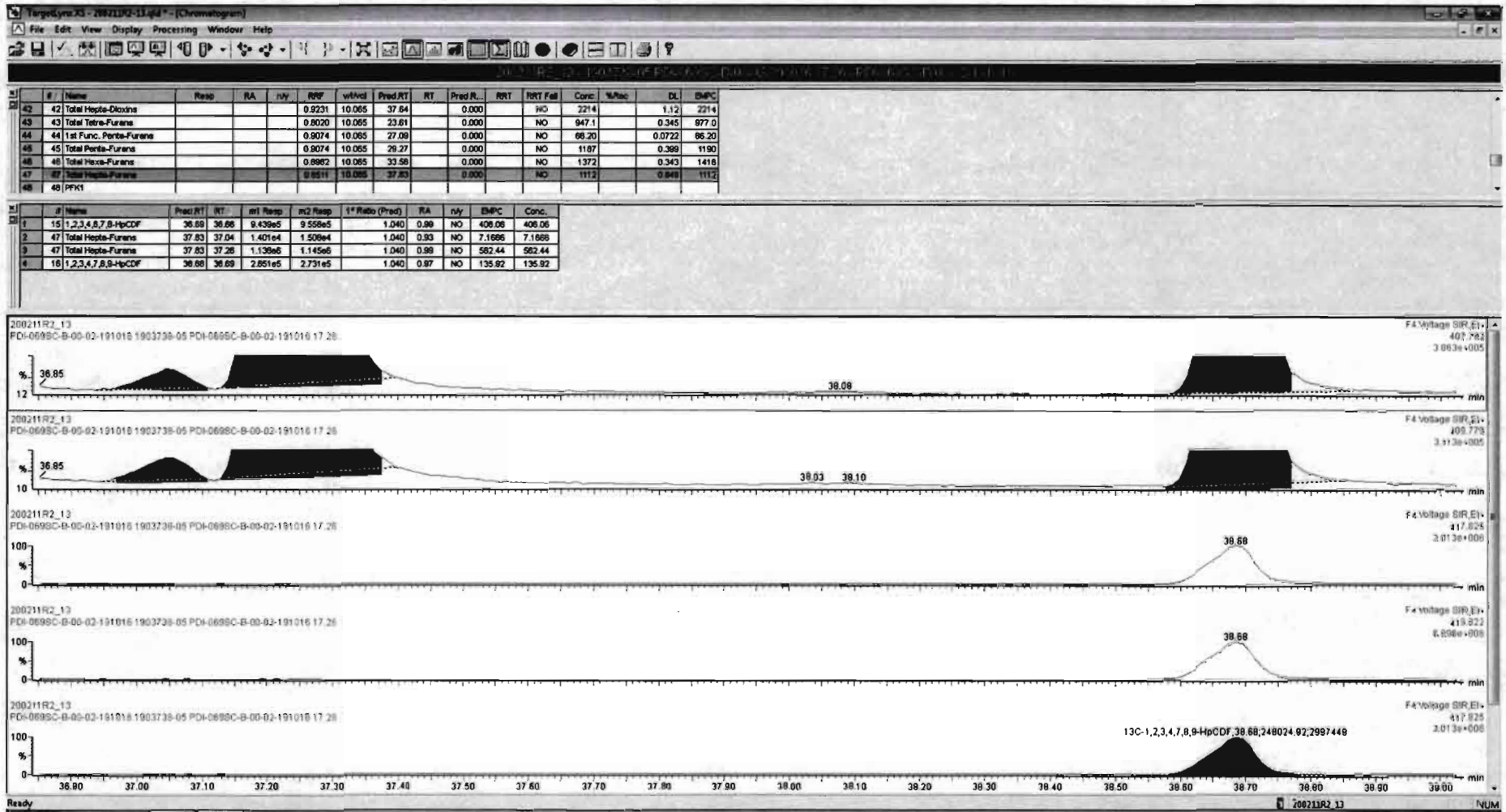
200211R2_13



#	Name	Resp	RA	n/y	RNF	wt/nd	Pred.RT	RT	Pred.R...	RRT	RRT Fat	Conc.	%Rec	DL	EMPC
42	Total Hepta-Dioxins				0.9231	10.065	37.84		0.000		NO	2214	1.12	2214	
43	Total Tetra-Furans				0.8020	10.065	23.81		0.000		NO	947.1	0.345	977.0	
44	1st Func. Penta-Furans				0.9074	10.065	27.09		0.000		NO	66.20	0.0722	66.20	
45	Total Penta-Furans				0.9074	10.065	29.27		0.000		NO	1187	0.399	1190	
46	Total Hexa-Furans				0.8882	10.065	33.56		0.000		NO	1372	0.343	1418	
47	Total Hepta-Furans				0.8811	10.065	37.83		0.000		NO	1111	0.549	1111	
48	PFOS														

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	36.89	36.85	9.439e5	9.559e5	1.040	0.98	NO	406.06	406.06
2	Total Hepta-Furans	37.83	37.04	1.401e4	1.377e4	1.040	1.02	NO	8.8441	8.8441
3	Total Hepta-Furans	37.83	37.26	1.138e6	1.145e6	1.040	0.99	NO	582.44	582.44
4	1,2,3,4,7,8,9-HpCDF	38.88	38.69	2.851e5	2.731e5	1.040	0.97	NO	135.92	135.92

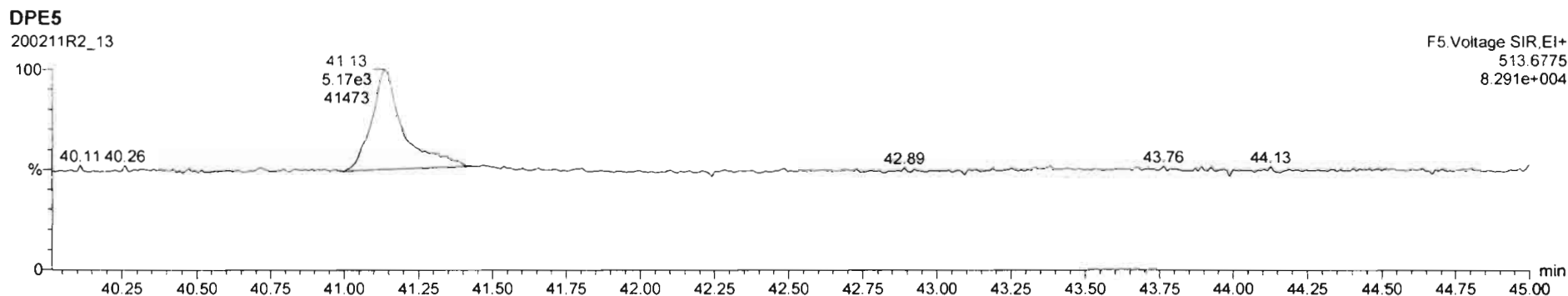
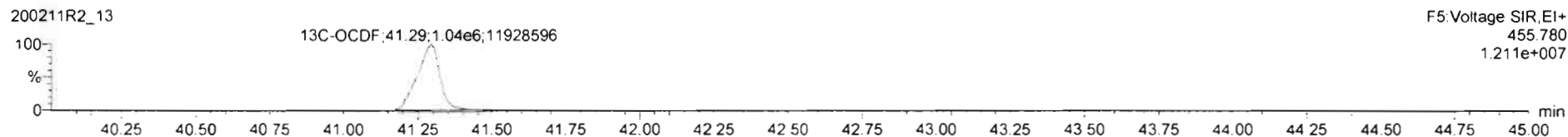
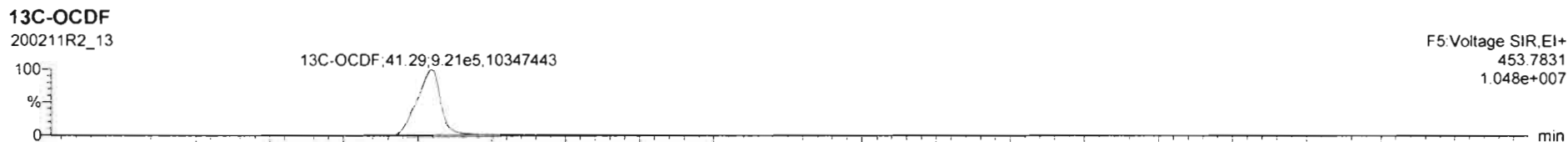
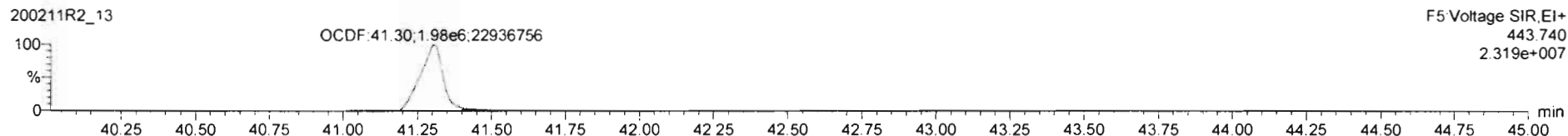
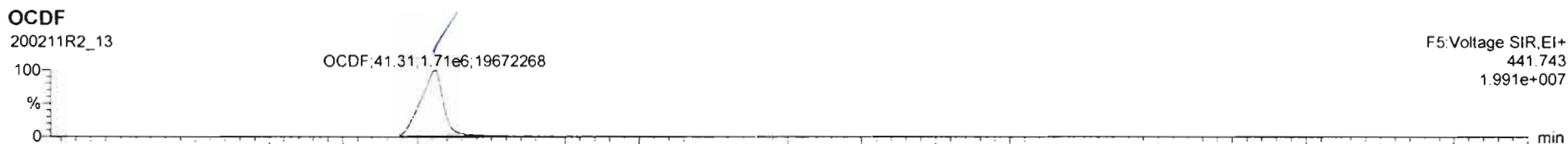




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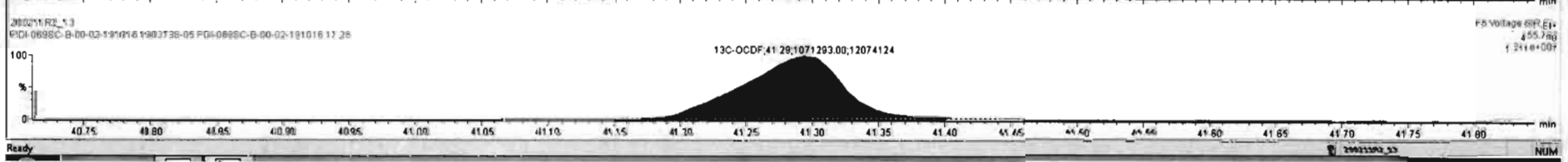
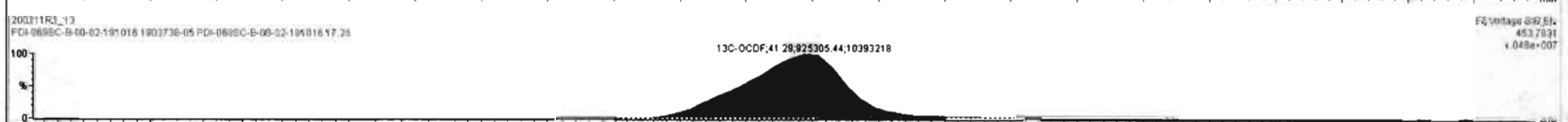
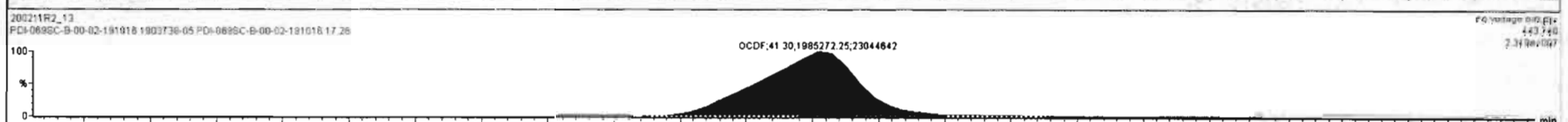
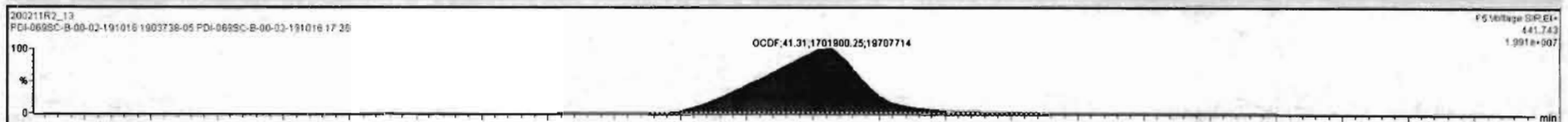
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Name: 200211R2_13, Date: 12-Feb-2020, Time: 01:24:02, ID: 1903738-05 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016



#	Name	Resp	RA	nV	RF	wVol	Pred_RT	RT	Pred_R	RRT	RRT Fail	Conc	%Rec	DL	EMPC
14	1,2,3,7,8,9-HxCDF	1.57e5	1.14	NO	0.8578	10.065	34.30	34.34	1.000	1.001	NO	34.38		0.501	34.36
15	1,2,3,4,6,7,8-HpCDF	1.90e6	0.99	NO	0.8511	10.065	36.69	36.66	1.001	1.000	NO	406.1		0.583	406.1
16	1,2,3,4,7,8,9-HpCDF	5.38e5	0.97	NO	0.8799	10.065	36.69	36.69	1.000	1.000	NO	135.9		0.641	135.9
17	OCDF	3.88e4	0.98	NO	0.8693	10.065	41.29	41.31	1.000	1.001	NO	811.1		0.559	811.1
18	13C-2,3,7,8-TCDD	1.99e6	0.80	NO	1.1995	10.065	25.80	25.81	1.026	1.028	NO	163.9	82.5	0.653	
19	13C-1,2,3,7,8-PeCDD	1.42e6	0.84	NO	0.9867	10.065	30.56	30.62	1.215	1.225	NO	145.0	73.0	0.184	
20	13C-1,2,3,4,7,8-HxCDD	6.52e5	1.25	NO	0.8739	10.065	34.18	34.16	1.014	1.014	NO	75.34	37.9	0.245	

#	Name	Pred_RT	RT	#1 Resp	#2 Resp	1* Ratio (Pred)	RA	nV	EMPC	Conc
1										



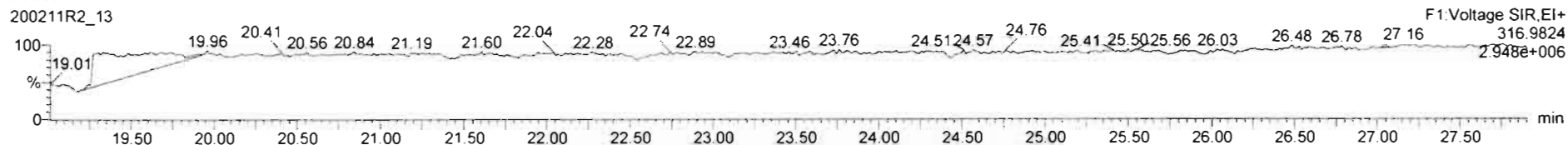
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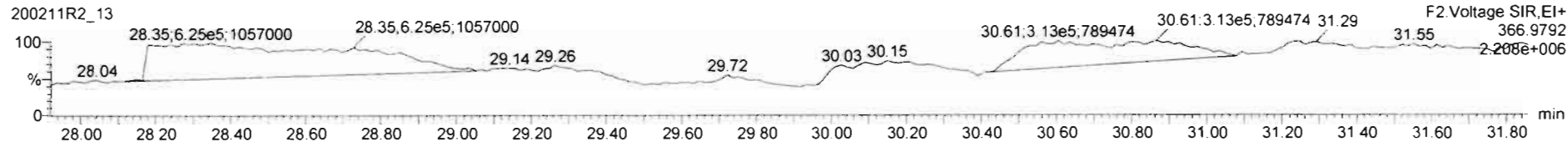
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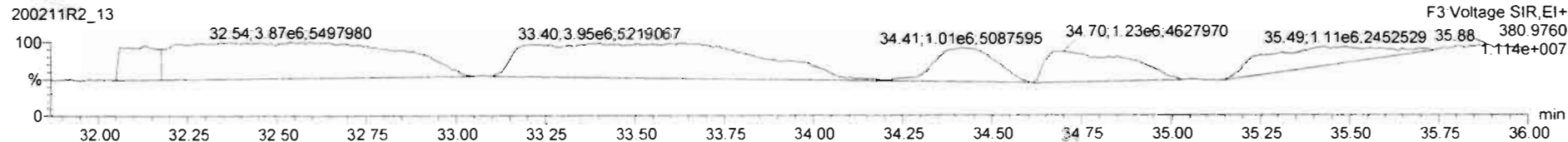
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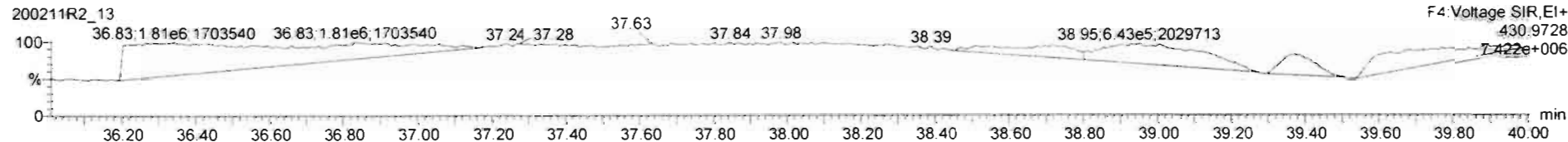
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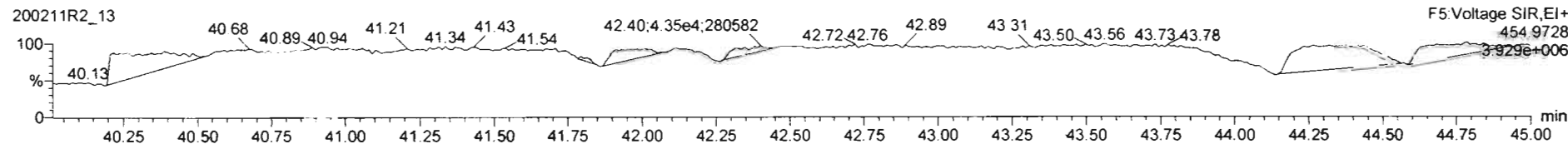
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200212R2\200212R2-11.qld

Last Altered: Friday, February 14, 2020 11:55:09 Pacific Standard Time

Printed: Friday, February 14, 2020 12:04:01 Pacific Standard Time

HN 02/14/2020

C 03/10/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200212R2_11, Date: 12-Feb-2020, Time: 22:08:01, ID: 1903738-05@5X PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

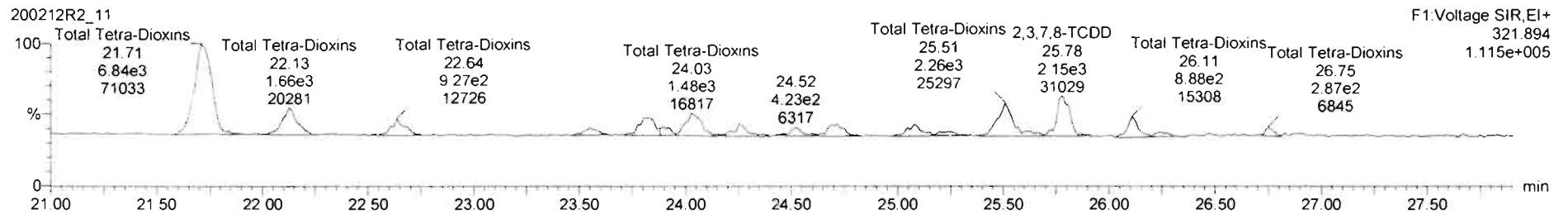
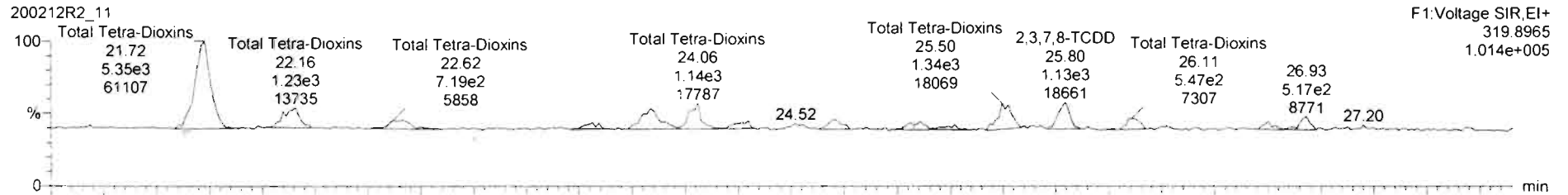
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1	7 OCDD	7196954.7...	0.893	NO	0.975	10.065	41.11	41.12	1.00	1.00	NO	11900		3.90	11900
2	24 13C-OCDD	246547.711	0.908	NO	0.707	10.065	41.05	41.11	1.22	1.22	NO	218.7	55.0	0.876	

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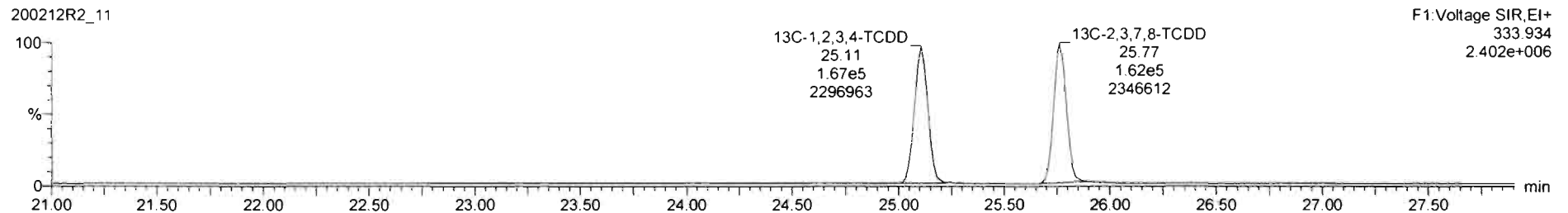
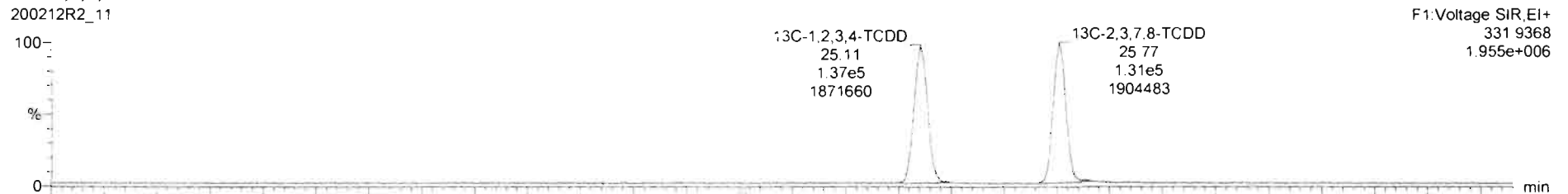
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2,3,7,8-TCDD



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



Dataset: Untitled

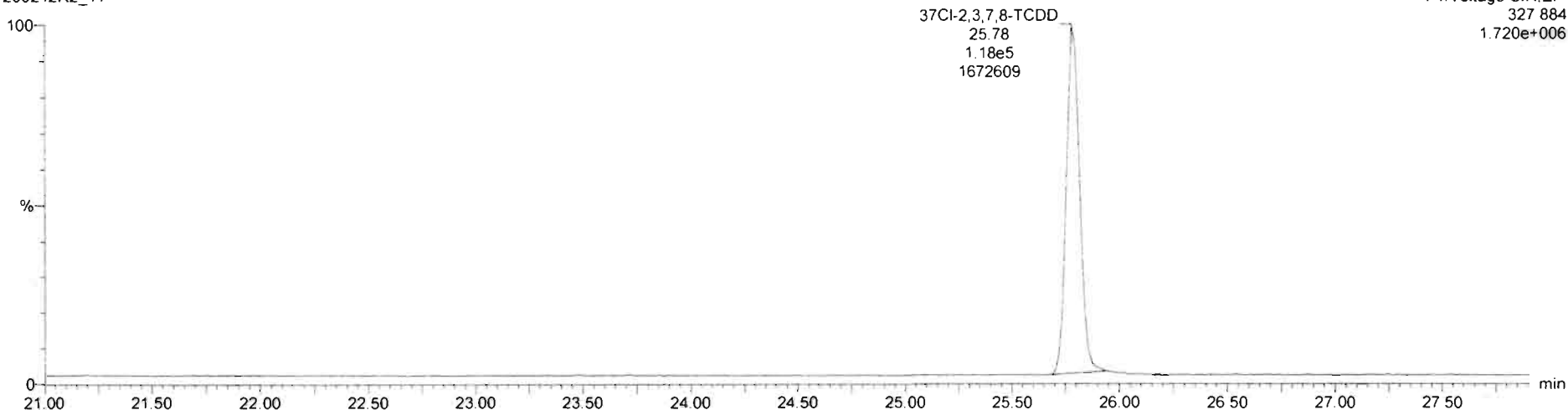
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Printed: Thursday, February 13, 2020 07:30:03 Pacific Standard Time

Name: 200212R2_11, Date: 12-Feb-2020, Time: 22:08:01, ID: 1903738-05@5X PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

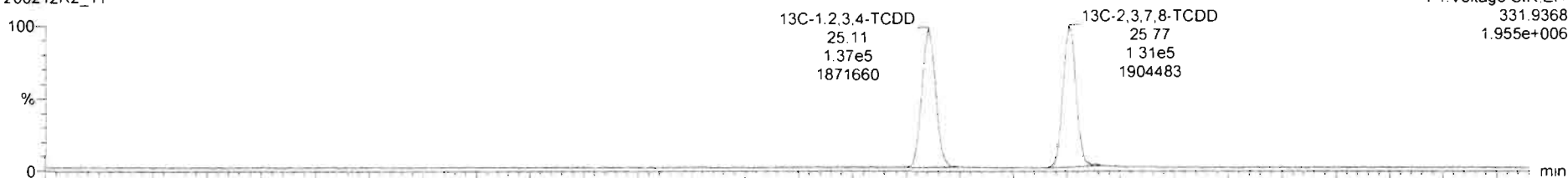
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200212R2_11

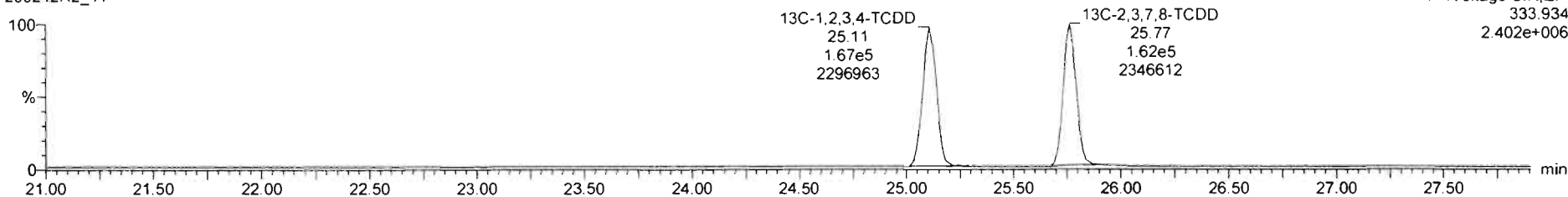


13C-1,2,3,4-TCDD

200212R2_11



200212R2_11

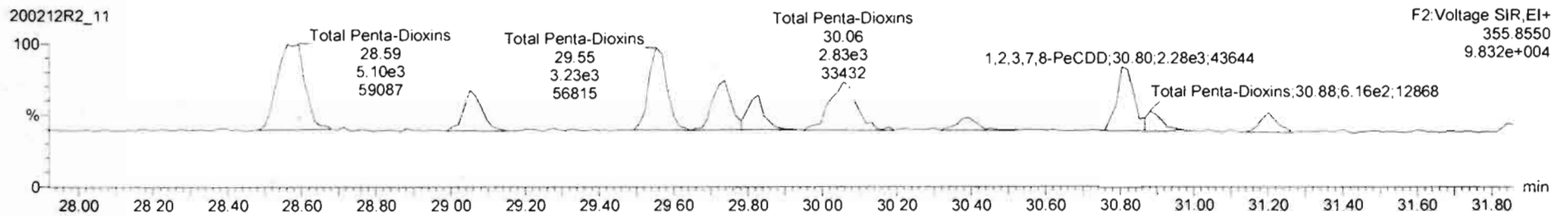
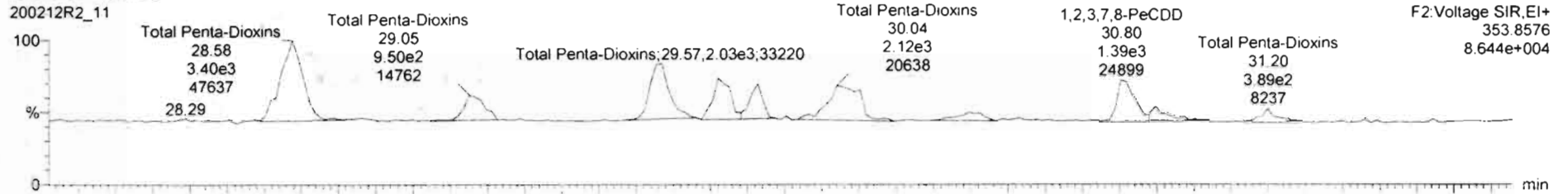


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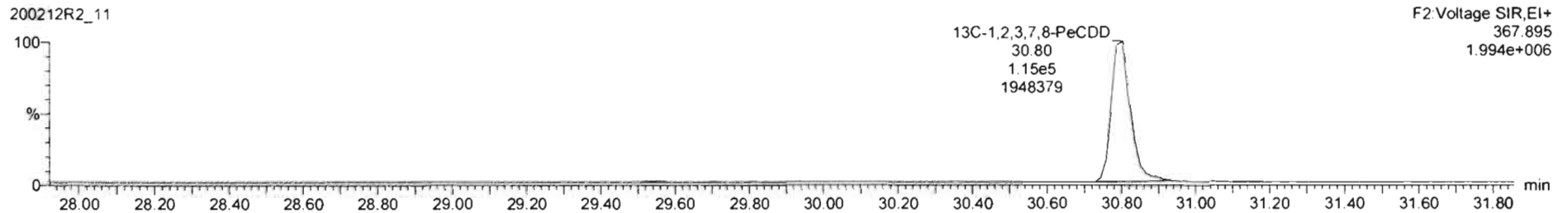
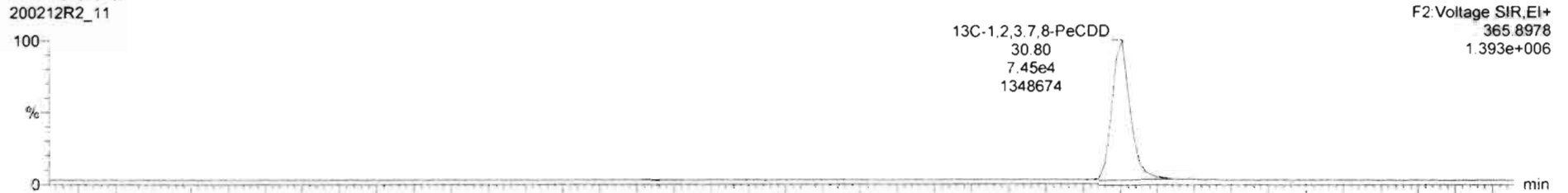
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1,2,3,7,8-PeCDD



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

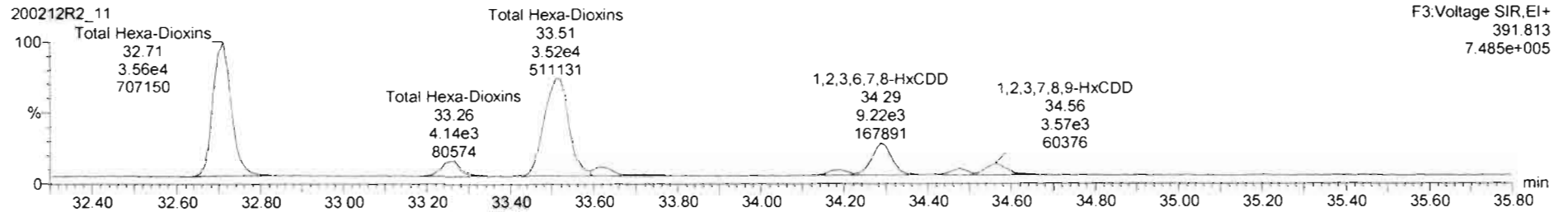
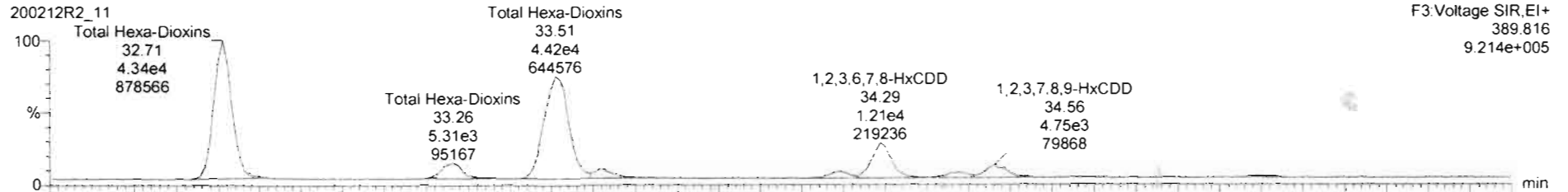


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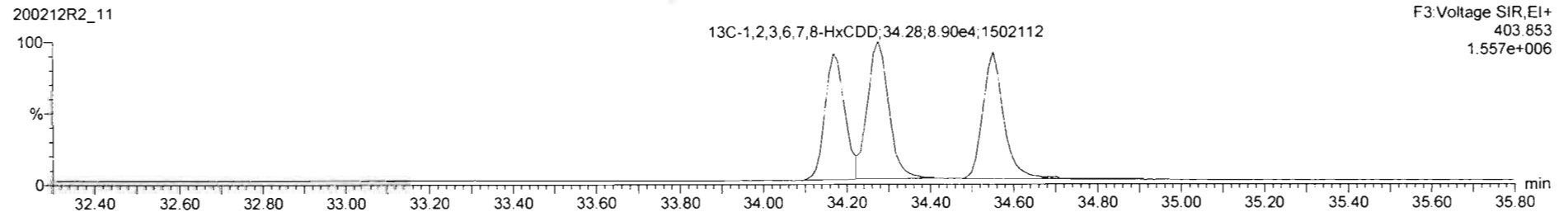
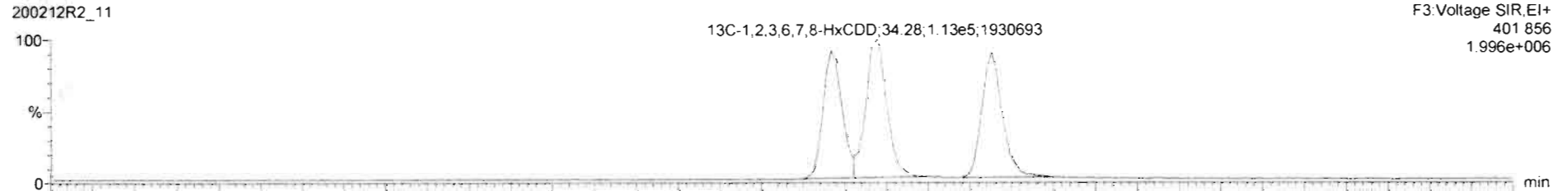
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1,2,3,4,7,8-HxCDD



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



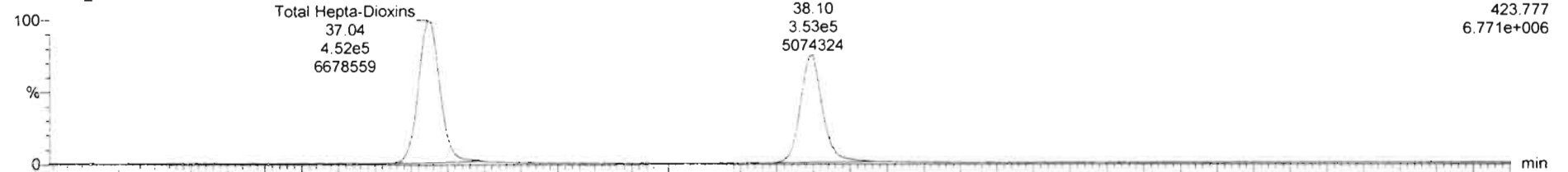
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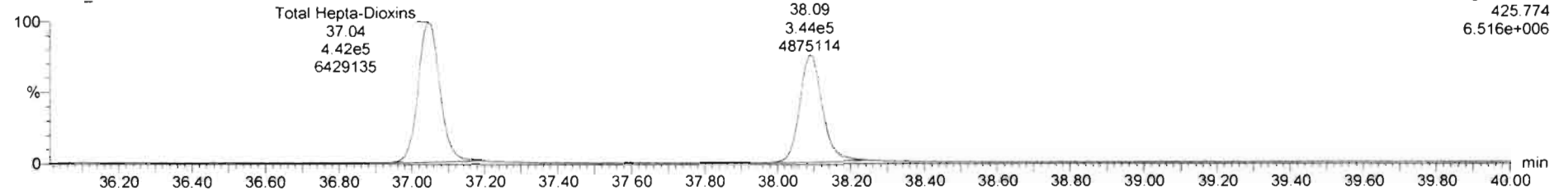
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1,2,3,4,6,7,8-HpCDD

200212R2_11

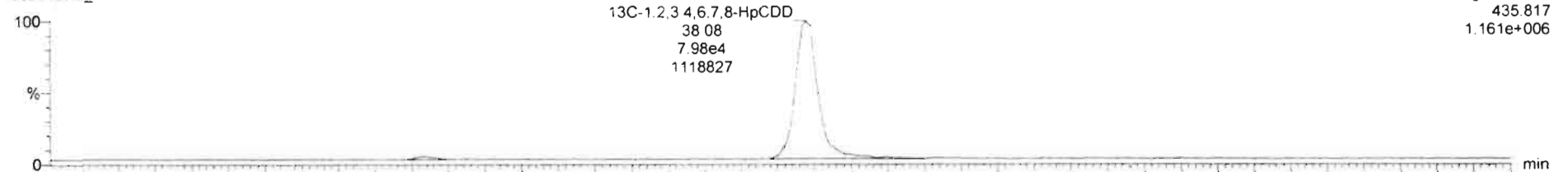


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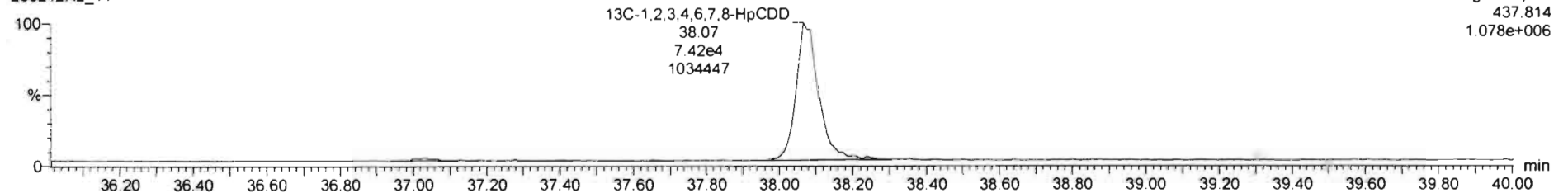


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200212R2_11



200212R2_11

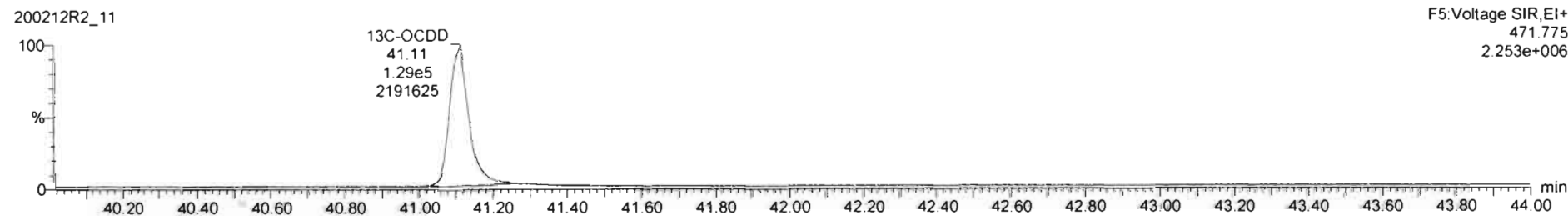
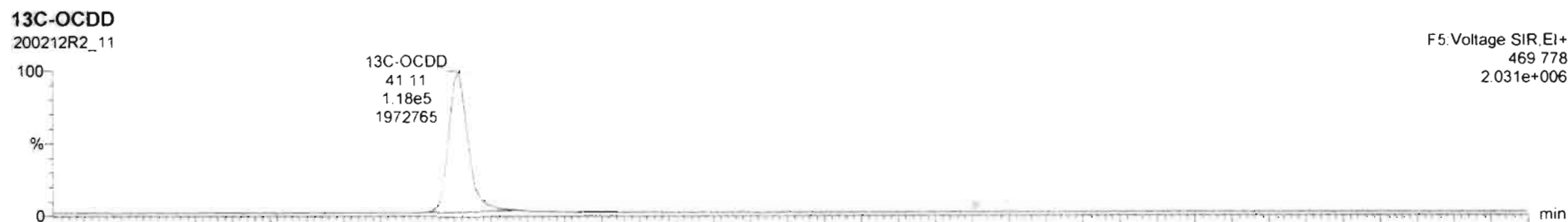
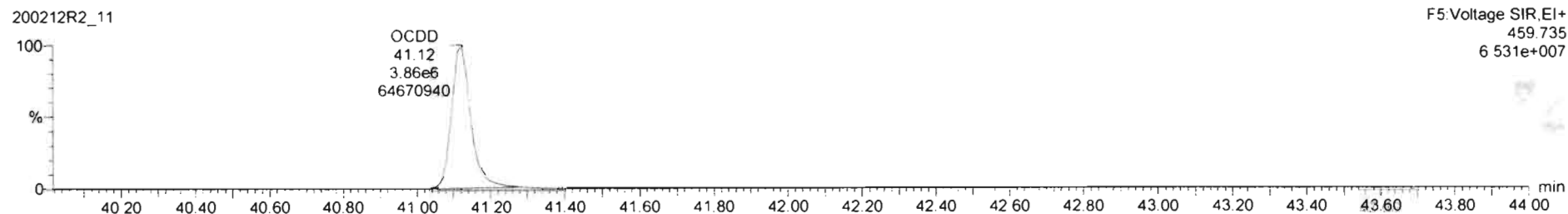
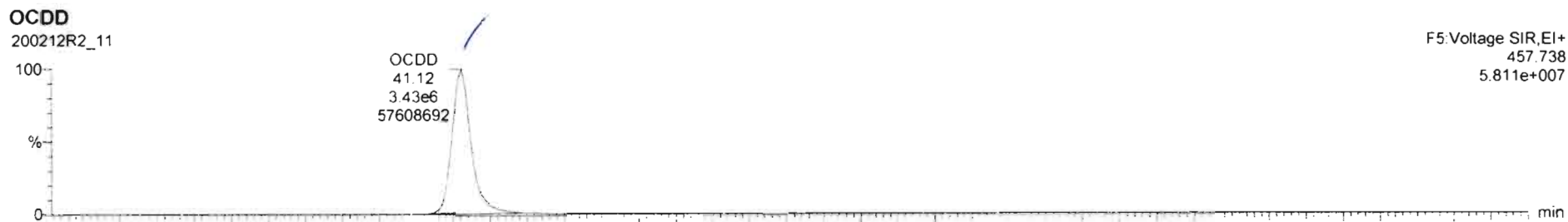


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Name: 200212R2_11, Date: 12-Feb-2020, Time: 22:08:01, ID: 1903738-05@5X PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

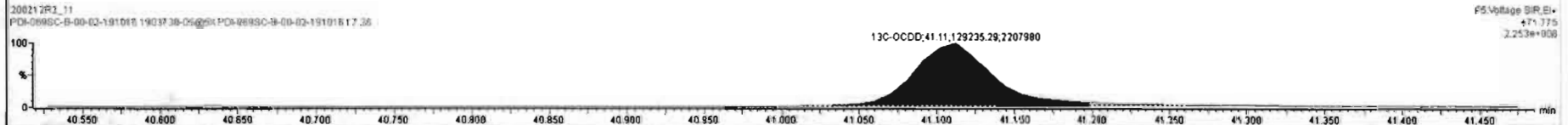
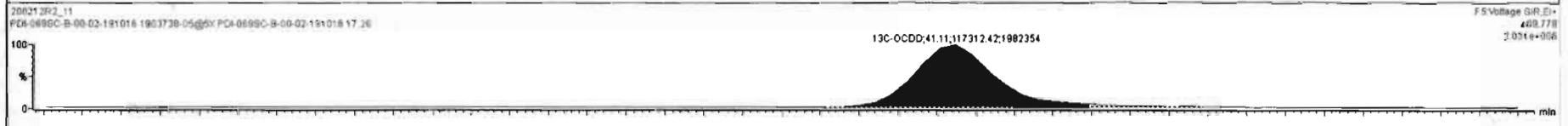
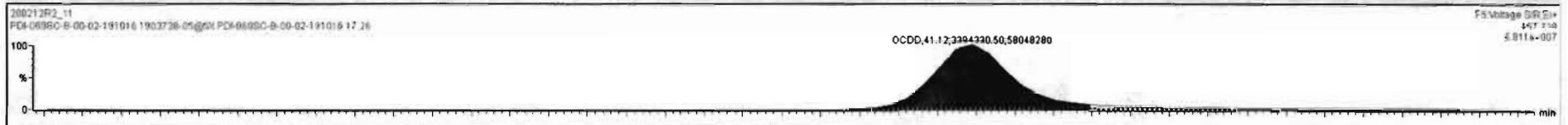


TargetLine.XI - 200212R2-11.qtd - [Chromatogram]

File Edit View Display Processing Window Help

#	Name	Resp	IS Resp	IS	RA	rvy	WFO	valued	Prod RT	RT	RRT	Pred RRT	Chlor RRT	Conc	%Rec	DL	EMPC	Primary Flag	No Sol	Peak
5	1,2,3,7,8,9-HxCDD	6.52e3	1.79e5	22	1.33	NO		10.065	34.59	34.56	1.000	1.001	NO	10.04		0.773	10.04	db	NO	
6	1,2,3,4,6,7,8-HpCDD	6.97e5	1.54e5	23	1.03	NO		10.065	36.09	36.10	1.001	1.000	NO	973.9		3.12	973.9	bb	NO	
7	OCDD	7.35e4	2.47e5	34	0.89	NO		10.069	41.71	41.72	1.000	1.000	NO	11900		3.80	11900	bb	NO	
8	2,3,7,8-TCDF	5.79e5	4.53e5	25	0.75	NO		10.065	24.88	24.87	1.001	1.001	NO	316.8		0.517	316.8	db	NO	
9	1,2,3,7,8-PeCDF	7.02e5	3.54e5	26	1.58	NO		10.065	29.53	29.52	1.001	1.001	NO	433.8		0.763	433.8	bb	NO	
10	2,3,4,7,8-PeCDF	3.78e5	3.12e5	27	1.55	NO		10.069	30.81	30.50	1.000	1.001	NO	252.7		0.745	252.7	db	NO	
11	1,2,3,4,7,8-HxCDF	6.12e5	2.37e5	28	1.20	NO		10.065	33.31	33.33	1.001	1.000	NO	787.4		0.729	787.4	db	NO	

#	Name	Pred RT	RT	m1 Resp	m2 Resp	Pred RA	RA	rvy	EMPC	Conc	Primar	1st Det
1												



Ready 200212R2_11

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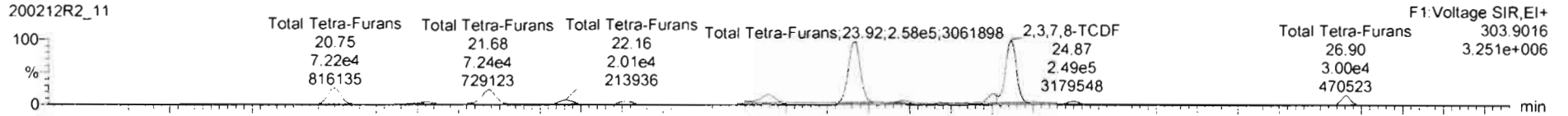
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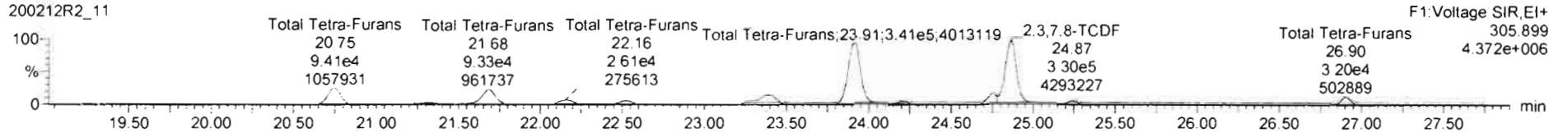
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2,3,7,8-TCDF

200212R2_11

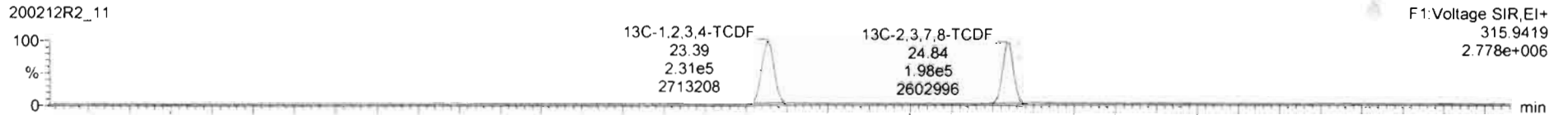


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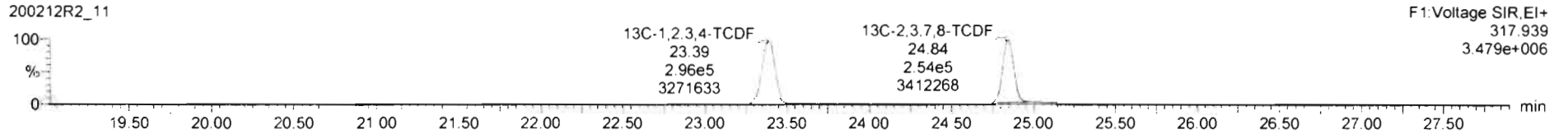


13C-2,3,7,8-TCDF

200212R2_11

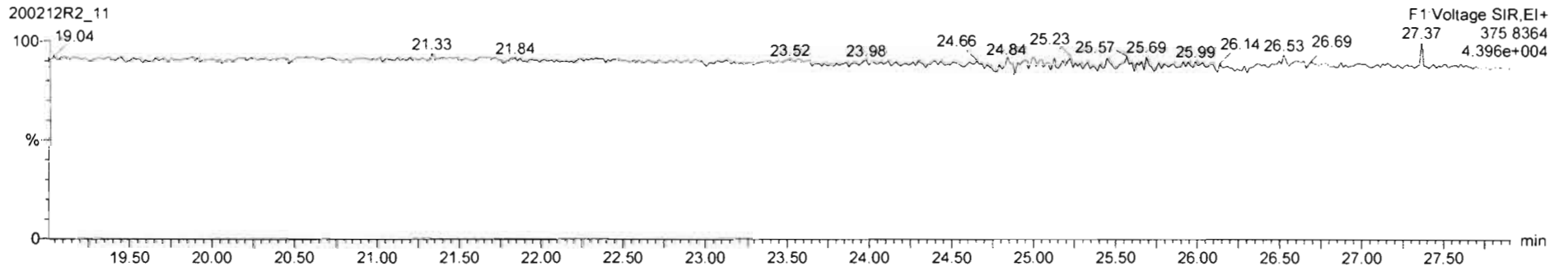


200212R2_11



DPE1

200212R2_11



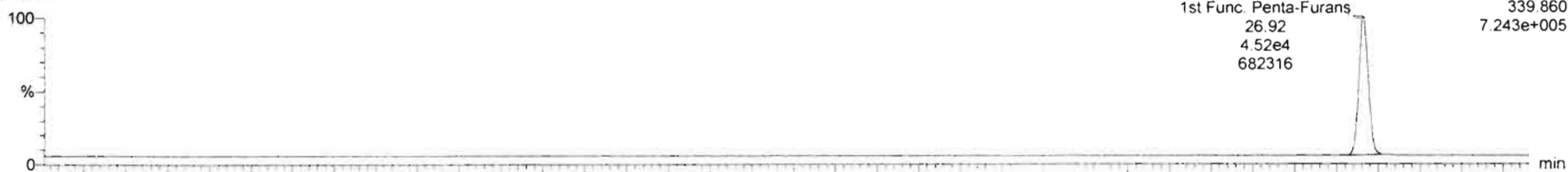
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Last Altered: Thursday, February 13, 2020 07:25:30 Pacific Standard Time
Printed: Thursday, February 13, 2020 07:30:03 Pacific Standard Time

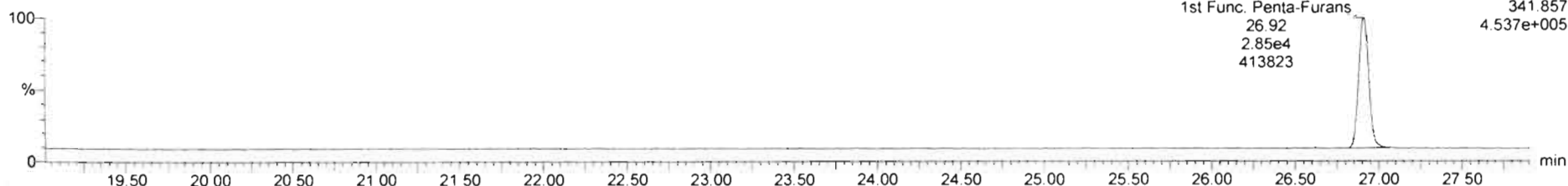
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200212R2_11

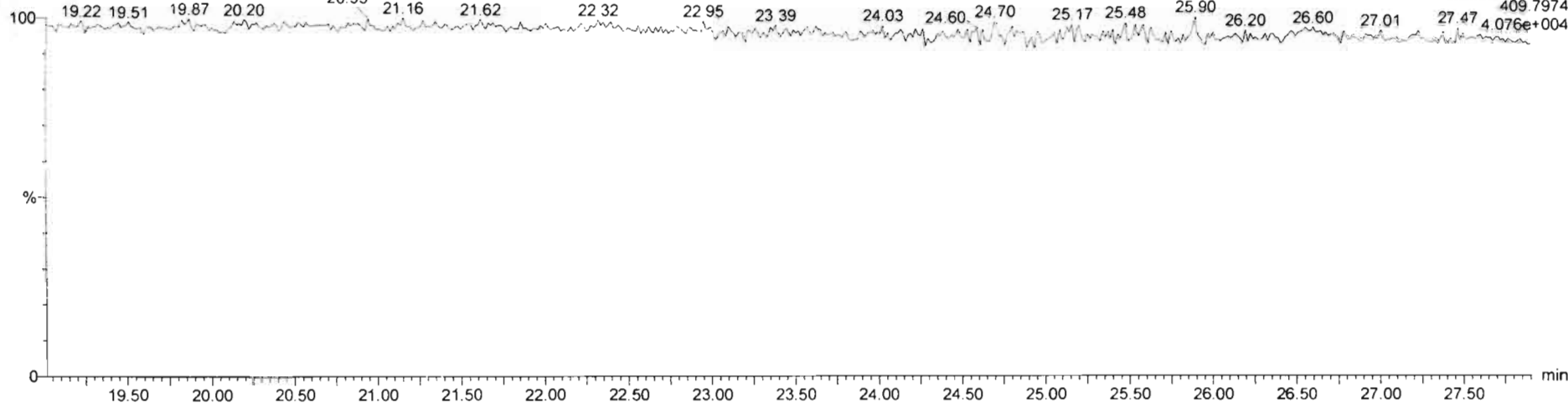


200212R2_11



DPE6

200212R2_11



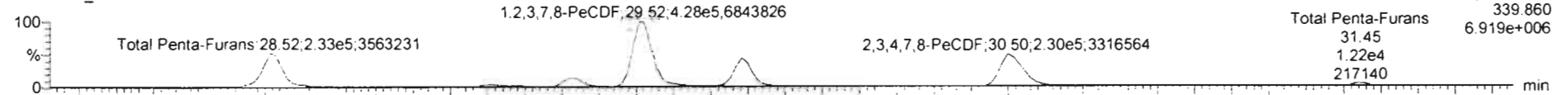
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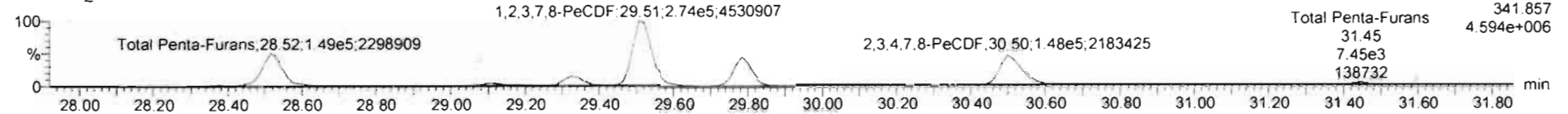
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1,2,3,7,8-PeCDF

200212R2_11

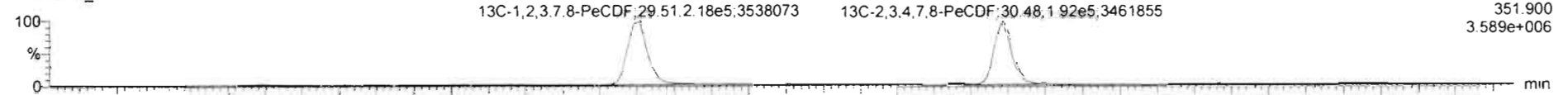


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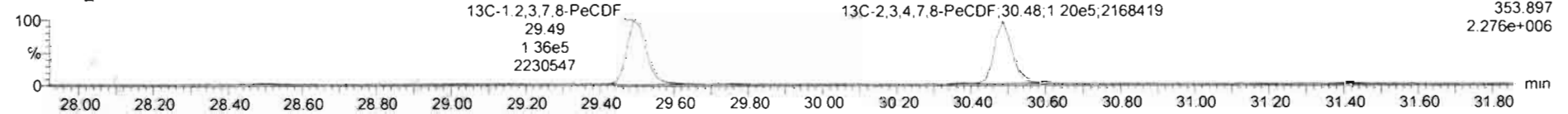


13C-1,2,3,7,8-PeCDF

200212R2_11

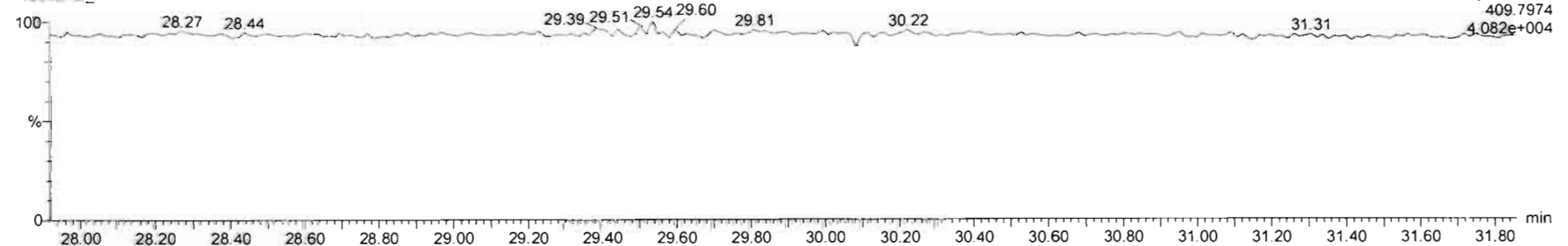


200212R2_11



DPE2

200212R2_11

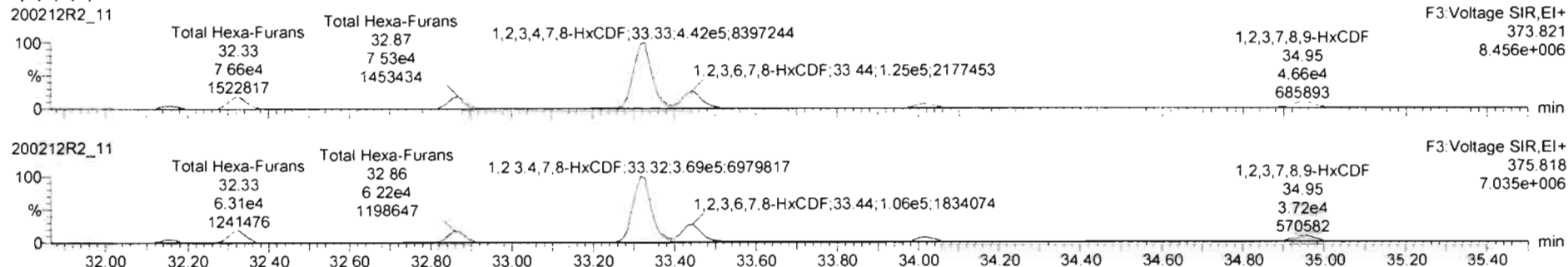


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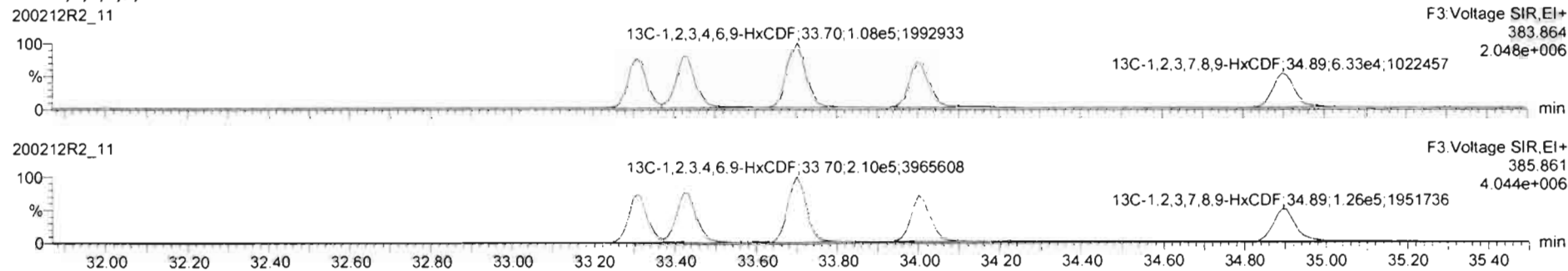
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Name: 200212R2_11, Date: 12-Feb-2020, Time: 22:08:01, ID: 1903738-05@5X PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

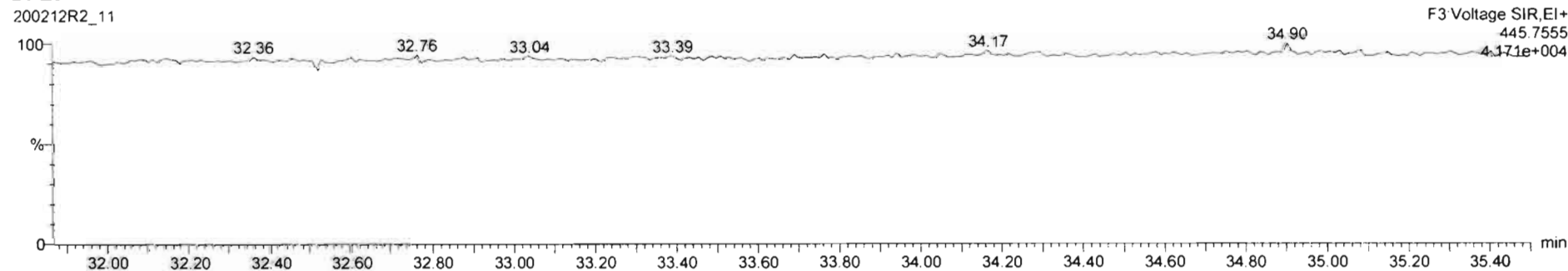
1,2,3,4,7,8-HxCDF



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



DPE3



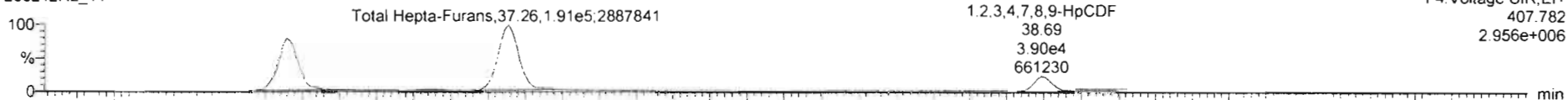
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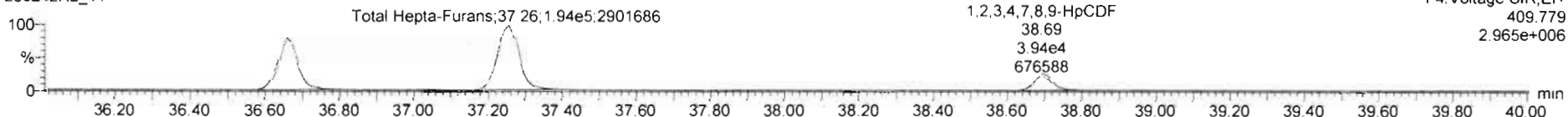
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1,2,3,4,6,7,8-HpCDF

200212R2_11

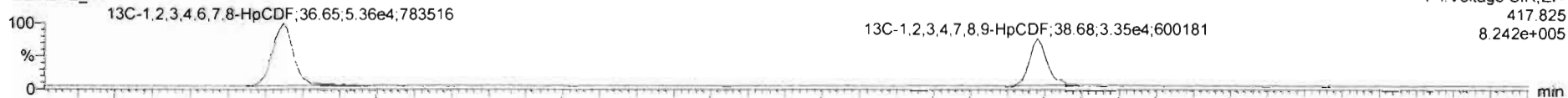


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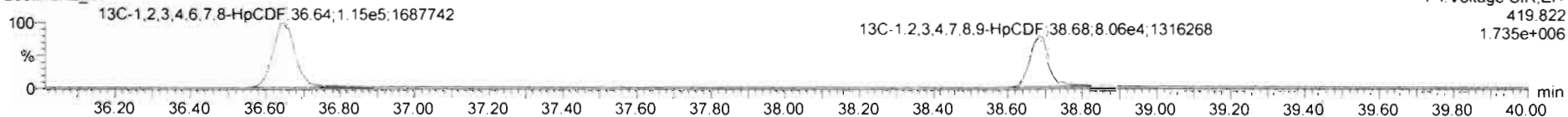


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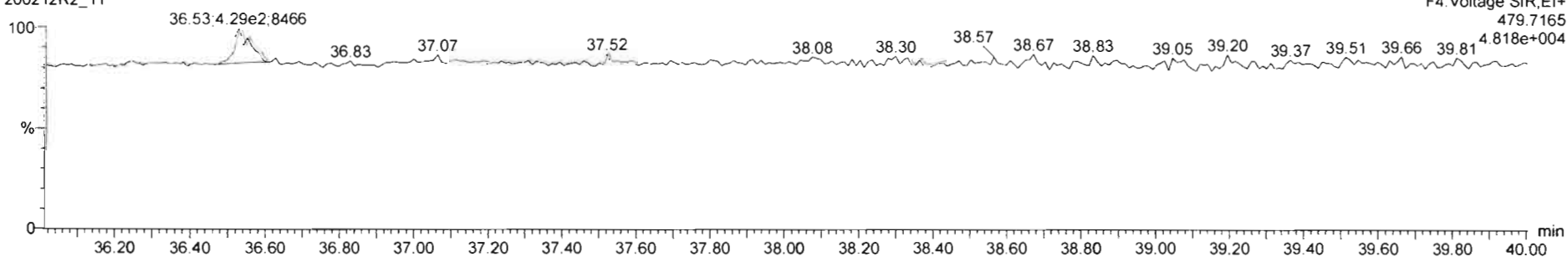


200212R2_11



DPE4

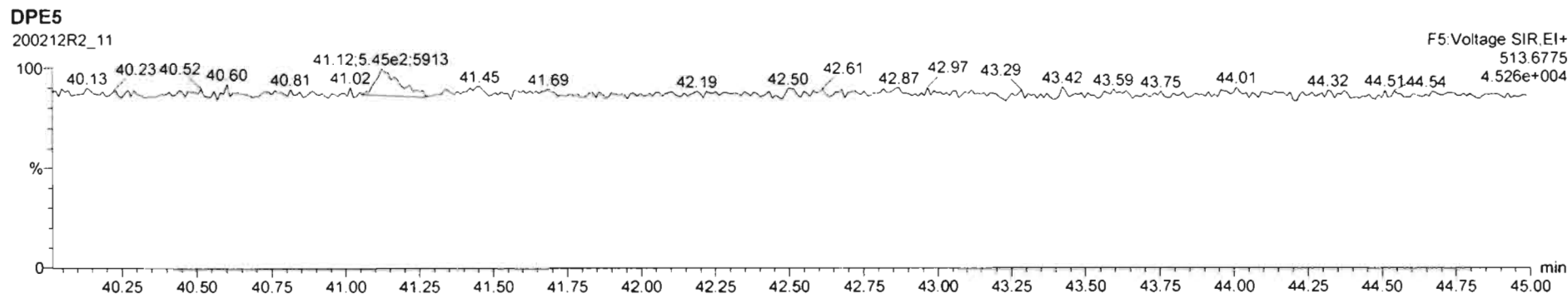
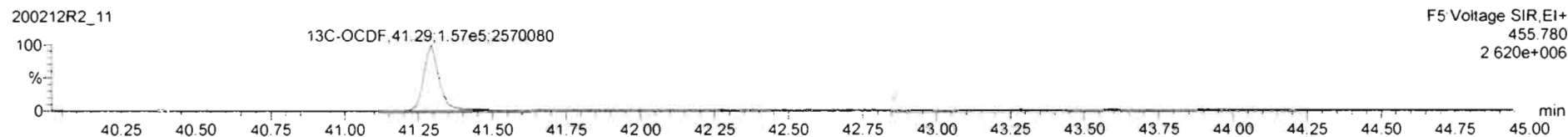
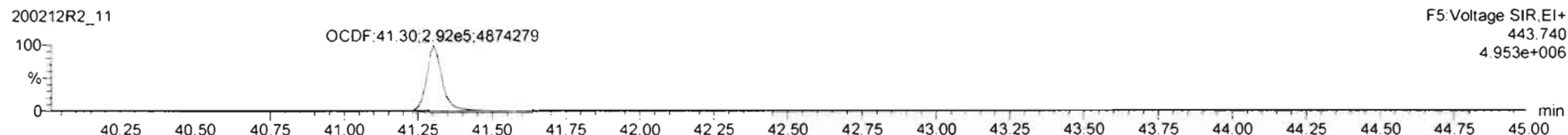
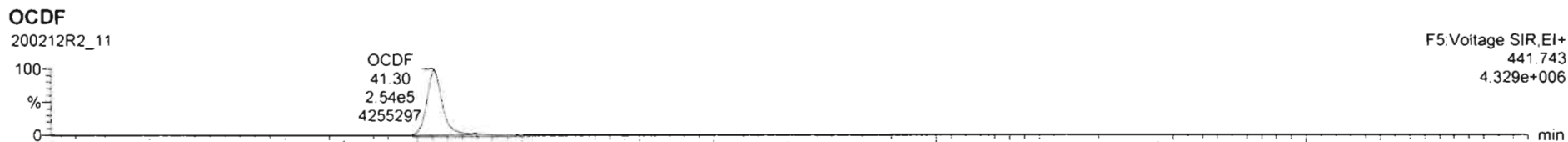
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Name: 200212R2_11, Date: 12-Feb-2020, Time: 22:08:01, ID: 1903738-05@5X PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

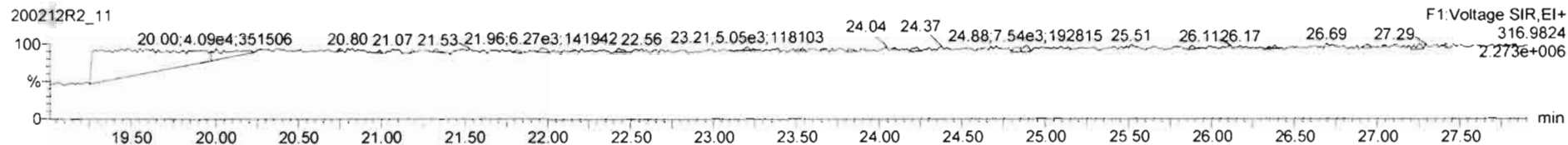


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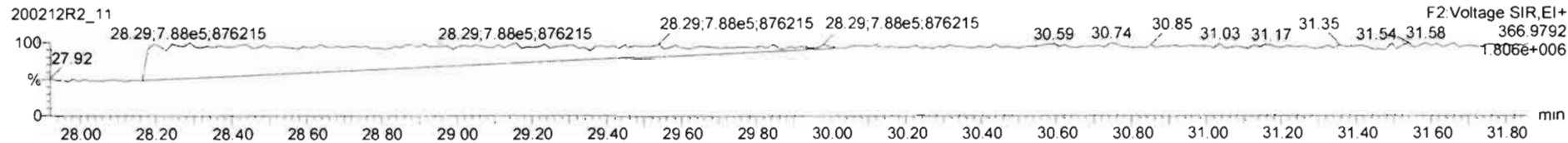
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Name: 200212R2_11, Date: 12-Feb-2020, Time: 22:08:01, ID: 1903738-05@5X PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

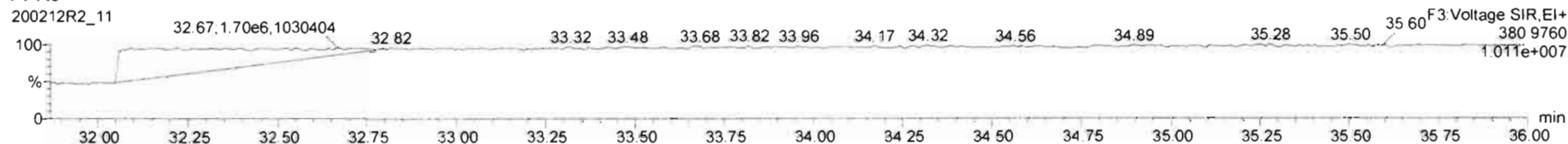
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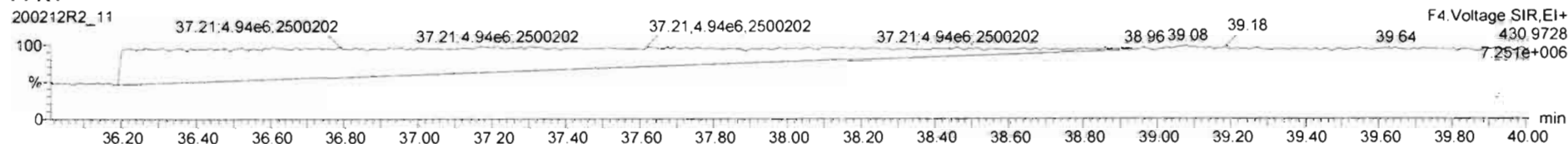
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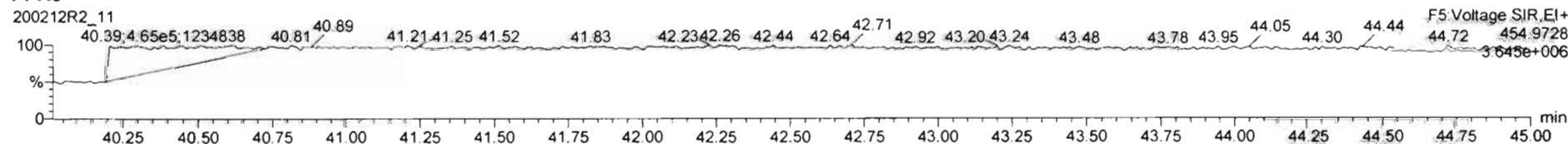
PFK3



PFK4



PFK5



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GRB 02/13/2020

C703/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

*SEE DIL.

Name: 200211R2_14, Date: 12-Feb-2020, Time: 02:11:22, ID: 1903738-06 PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	9.61e3	0.71	NO	0.988	10.019	25.811	25.80	1.001	1.001	0.98700		0.0924	0.987
2	2 1,2,3,7,8-PeCDD	1.20e4	0.65	NO	0.972	10.019	30.841	30.83	1.001	1.001	1.7059		0.169	1.71
3	3 1,2,3,4,7,8-HxCDD	1.38e4	1.23	NO	1.07	10.019	34.199	34.19	1.000	1.000	2.0954		0.184	2.10
4	4 1,2,3,6,7,8-HxCDD	9.12e4	1.22	NO	0.921	10.019	34.285	34.31	1.000	1.001	13.395		0.183	13.4
5	5 1,2,3,7,8,9-HxCDD	3.56e4	1.23	NO	0.918	10.019	34.597	34.57	1.001	1.000	5.6772		0.202	5.68
6	6 1,2,3,4,6,7,8-HpCDD	2.78e6	1.02	NO	0.923	10.019	38.088	38.09	1.000	1.000	512.26		0.937	512
7	7 OCDD	3.40e7	0.88	NO	0.975	10.019	41.112	41.12	1.000	1.000	7304.4E*		0.888	7300
8	8 2,3,7,8-TCDF	1.67e6	0.75	NO	0.802	10.019	24.892	24.90	1.001	1.001	155.01 (148)		0.121	155
9	9 1,2,3,7,8-PeCDF	2.71e6	1.53	NO	0.907	10.019	29.544	29.54	1.001	1.001	256.83		0.340	257
10	10 2,3,4,7,8-PeCDF	1.04e6	1.51	NO	0.952	10.019	30.530	30.53	1.001	1.001	100.94		0.350	101
11	11 1,2,3,4,7,8-HxCDF	3.41e6	1.18	NO	0.862	10.019	33.327	33.34	1.000	1.000	483.05		0.268	483
12	12 1,2,3,6,7,8-HxCDF	9.83e5	1.19	NO	0.841	10.019	33.454	33.45	1.000	1.000	134.36		0.285	134
13	13 2,3,4,6,7,8-HxCDF	2.38e5	1.17	NO	0.898	10.019	34.053	34.03	1.001	1.000	33.803		0.313	33.8
14	14 1,2,3,7,8,9-HxCDF	1.43e5	1.14	NO	0.858	10.019	34.903	34.95	1.000	1.001	23.837		0.410	23.8
15	15 1,2,3,4,6,7,8-HpCDF	1.55e6	0.99	NO	0.851	10.019	36.687	36.66	1.001	1.000	315.23		0.451	315
16	16 1,2,3,4,7,8,9-HpCDF	3.91e5	0.98	NO	0.980	10.019	38.684	38.69	1.000	1.000	93.940		0.519	93.9
17	17 OCDF	2.48e6	0.86	NO	0.806	10.019	41.293	41.30	1.000	1.000	571.05		0.274	571
18	18 13C-2,3,7,8-TCDD	1.97e6	0.79	NO	1.20	10.019	25.782	25.78	1.026	1.026	167.60	84.0	0.221	
19	19 13C-1,2,3,7,8-PeCDD	1.45e6	0.64	NO	0.967	10.019	30.540	30.82	1.215	1.226	152.85	76.6	0.170	
20	20 13C-1,2,3,4,7,8-HxCDD	1.23e6	1.28	NO	0.874	10.019	34.182	34.19	1.014	1.014	139.84	70.1	0.330	
21	21 13C-1,2,3,6,7,8-HxCDD	1.48e6	1.26	NO	1.05	10.019	34.283	34.28	1.017	1.017	140.20	70.2	0.276	
22	22 13C-1,2,3,7,8,9-HxCDD	1.36e6	1.25	NO	0.974	10.019	34.586	34.56	1.026	1.025	138.88	69.6	0.296	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.17e6	1.03	NO	0.747	10.019	38.160	38.08	1.132	1.130	155.83	78.1	0.357	
24	24 13C-OCDD	1.90e6	0.90	NO	0.707	10.019	41.059	41.11	1.218	1.220	267.92	67.1	0.257	*
25	25 13C-2,3,7,8-TCDF	2.68e6	0.78	NO	1.07	10.019	24.960	24.87	0.993	0.989	161.89	81.1	0.297	
26	26 13C-1,2,3,7,8-PeCDF	2.32e6	1.59	NO	1.00	10.019	29.309	29.52	1.166	1.175	149.25	74.8	0.443	
27	27 13C-2,3,4,7,8-PeCDF	2.16e6	1.62	NO	0.962	10.019	30.533	30.50	1.215	1.213	144.73	72.5	0.461	
28	28 13C-1,2,3,4,7,8-HxCDF	1.64e6	0.51	NO	1.05	10.019	33.305	33.33	0.988	0.989	154.96	77.6	0.269	
29	29 13C-1,2,3,6,7,8-HxCDF	1.74e6	0.51	NO	1.19	10.019	33.407	33.44	0.991	0.992	145.03	72.7	0.237	
30	30 13C-2,3,4,6,7,8-HxCDF	1.57e6	0.52	NO	1.07	10.019	34.017	34.02	1.009	1.009	146.05	73.2	0.265	
31	31 13C-1,2,3,7,8,9-HxCDF	1.40e6	0.53	NO	0.922	10.019	34.924	34.90	1.036	1.035	150.89	75.6	0.306	

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	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.16e6	0.44	NO	0.767	10.019	36.676	36.65	1.088	1.087	149.75	75.0	0.326	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.48e5	0.44	NO	0.552	10.019	38.699	38.68	1.148	1.148	152.61	76.5	0.453	
34	34 13C-OCDF	2.15e6	0.85	NO	0.789	10.019	41.295	41.29	1.225	1.225	271.07	67.9	0.257	
35	35 37Cl-2,3,7,8-TCDD	7.92e5			1.18	10.019	25.815	25.81	1.027	1.027	68.763	86.1	0.0762	
36	36 13C-1,2,3,4-TCDD	1.96e6	0.82	NO	1.00	10.019	25.110	25.14	1.000	1.000	199.62	100	0.265	
37	37 13C-1,2,3,4-TCDF	3.10e6	0.79	NO	1.00	10.019	23.370	23.40	1.000	1.000	199.62	100	0.316	
38	38 13C-1,2,3,4,6,9-HxCDF	2.01e6	0.51	NO	1.00	10.019	33.710	33.71	1.000	1.000	199.62	100	0.282	
39	39 Total Tetra-Dioxins				0.988	10.019	24.620		0.000		14.461		0.0924	14.8
40	40 Total Penta-Dioxins				0.972	10.019	29.960		0.000		19.072		0.169	19.1
41	41 Total Hexa-Dioxins				0.921	10.019	33.635		0.000		127.87		0.199	128
42	42 Total Hepta-Dioxins				0.923	10.019	37.640		0.000		1174.2		0.937	1170
43	43 Total Tetra-Furans				0.802	10.019	23.610		0.000		433.82		0.121	451
44	44 1st Func. Penta-Furans				0.907	10.019	27.090		0.000		41.165		0.0557	41.2
45	45 Total Penta-Furans				0.907	10.019	29.275		0.000		700.02		0.353	700
46	46 Total Hexa-Furans				0.898	10.019	33.555		0.000		920.42		0.303	920
47	47 Total Hepta-Furans				0.851	10.019	37.835		0.000		805.93		0.513	806

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Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

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Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.74	3.178e5	4.328e5	3.022e4	3.968e4	0.76	NO	6.990e4	7.1784	7.1784	0.0924
2	Total Tetra-Dioxins	22.16	6.950e4	9.461e4	6.669e3	8.753e3	0.76	NO	1.542e4	1.5837	1.5837	0.0924
3	Total Tetra-Dioxins	22.68	2.473e4	2.818e4	2.025e3	2.634e3	0.77	NO	4.659e3	0.47838	0.47838	0.0924
4	Total Tetra-Dioxins	23.58	1.470e4	1.492e4	1.045e3	1.374e3	0.76	NO	2.419e3	0.24843	0.24843	0.0924
5	Total Tetra-Dioxins	23.83	3.135e4	3.994e4	2.603e3	3.350e3	0.78	NO	5.953e3	0.61130	0.61130	0.0924
6	Total Tetra-Dioxins	23.94	8.372e3	1.139e4	5.112e2	6.501e2	0.79	NO	1.161e3	0.11925	0.11925	0.0924
7	Total Tetra-Dioxins	24.06	4.086e4	5.424e4	3.373e3	4.454e3	0.76	NO	7.827e3	0.80371	0.80371	0.0924
8	Total Tetra-Dioxins	24.28	1.491e4	1.934e4	1.151e3	1.599e3	0.72	NO	2.750e3	0.28239	0.28239	0.0924
9	Total Tetra-Dioxins	24.55	1.393e4	1.487e4	1.018e3	1.192e3	0.85	NO	2.210e3	0.22698	0.22698	0.0924
10	Total Tetra-Dioxins	24.73	1.691e4	2.263e4	1.253e3	1.531e3	0.82	NO	2.784e3	0.28589	0.28589	0.0924
11	Total Tetra-Dioxins	25.11	1.803e4	1.524e4	1.361e3	1.522e3	0.89	YES	0.000e0	0.00000	0.27670	0.0924
12	Total Tetra-Dioxins	25.27	5.789e3	5.758e3	3.645e2	4.283e2	0.85	NO	7.928e2	0.081416	0.081416	0.0924
13	Total Tetra-Dioxins	25.53	5.135e4	6.912e4	4.397e3	5.227e3	0.84	NO	9.624e3	0.98829	0.98829	0.0924
14	Total Tetra-Dioxins	25.65	7.817e3	9.861e3	4.532e2	6.968e2	0.65	YES	0.000e0	0.00000	0.10697	0.0924
15	2,3,7,8-TCDD	25.80	5.617e4	7.890e4	3.993e3	5.618e3	0.71	NO	9.611e3	0.98700	0.98700	0.0924
16	Total Tetra-Dioxins	26.14	2.274e4	2.761e4	1.538e3	1.905e3	0.81	NO	3.443e3	0.35357	0.35357	0.0924
17	Total Tetra-Dioxins	26.27	8.391e3	1.000e4	3.567e2	4.186e2	0.85	NO	7.753e2	0.079619	0.079619	0.0924
18	Total Tetra-Dioxins	26.80	1.191e4	1.240e4	6.944e2	7.885e2	0.88	NO	1.483e3	0.15227	0.15227	0.0924

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Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.59	1.999e5	3.150e5	1.518e4	2.467e4	0.62	NO	3.984e4	5.6529	5.6529	0.169
2	Total Penta-Dioxins	29.08	5.755e4	1.081e5	3.253e3	5.579e3	0.58	NO	8.832e3	1.2530	1.2530	0.169
3	Total Penta-Dioxins	29.58	1.589e5	2.599e5	1.060e4	1.485e4	0.71	NO	2.545e4	3.6111	3.6111	0.169
4	Total Penta-Dioxins	29.75	8.931e4	1.365e5	4.756e3	7.341e3	0.65	NO	1.210e4	1.7164	1.7164	0.169
5	Total Penta-Dioxins	29.84	5.989e4	1.040e5	3.341e3	6.032e3	0.55	NO	9.374e3	1.3299	1.3299	0.169
6	Total Penta-Dioxins	30.06	8.110e4	1.227e5	6.131e3	1.007e4	0.61	NO	1.620e4	2.2983	2.2983	0.169
7	Total Penta-Dioxins	30.41	1.862e4	3.329e4	9.456e2	1.751e3	0.54	NO	2.696e3	0.38256	0.38256	0.169
8	1,2,3,7,8-PeCDD	30.83	7.969e4	1.456e5	4.718e3	7.305e3	0.65	NO	1.202e4	1.7059	1.7059	0.169
9	Total Penta-Dioxins	30.91	2.994e4	4.522e4	1.315e3	2.377e3	0.55	NO	3.692e3	0.52385	0.52385	0.169
10	Total Penta-Dioxins	31.13	9.063e3	9.169e3	2.708e2	2.662e2	1.02	YES	0.000e0	0.00000	0.061567	0.169
11	Total Penta-Dioxins	31.20	2.522e4	4.630e4	1.638e3	2.579e3	0.64	NO	4.216e3	0.59815	0.59815	0.169

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.73	3.076e6	2.596e6	1.640e5	1.347e5	1.22	NO	2.987e5	47.754	47.754	0.199
2	Total Hexa-Dioxins	33.27	4.086e5	3.383e5	2.233e4	1.791e4	1.25	NO	4.023e4	6.4327	6.4327	0.199
3	Total Hexa-Dioxins	33.53	2.383e6	1.914e6	1.665e5	1.364e5	1.22	NO	3.029e5	48.429	48.429	0.199
4	Total Hexa-Dioxins	33.64	1.190e5	1.076e5	8.159e3	6.607e3	1.23	NO	1.477e4	2.3608	2.3608	0.199
5	1,2,3,4,7,8-HxCDD	34.19	1.316e5	1.074e5	7.609e3	6.212e3	1.23	NO	1.382e4	2.0954	2.0954	0.184
6	1,2,3,6,7,8-HxCDD	34.31	7.954e5	6.570e5	5.017e4	4.101e4	1.22	NO	9.119e4	13.395	13.395	0.183
7	Total Hexa-Dioxins	34.48	9.791e4	7.878e4	6.177e3	4.644e3	1.33	NO	1.082e4	1.7301	1.7301	0.199
8	1,2,3,7,8,9-HxCDD	34.57	3.131e5	2.523e5	1.959e4	1.596e4	1.23	NO	3.555e4	5.6772	5.6772	0.202

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.06	2.184e7	2.163e7	1.803e6	1.783e6	1.01	NO	3.586e6	661.97	661.97	0.937
2	1,2,3,4,6,7,8-HpCDD	38.09	1.539e7	1.514e7	1.398e6	1.377e6	1.02	NO	2.775e6	512.26	512.26	0.937

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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	19.69	3.896e4	4.952e4	2.979e3	4.001e3	0.74	NO	6.980e3	0.64830	0.64830	0.121
2	Total Tetra-Furans	20.20	1.111e5	1.337e5	9.138e3	1.200e4	0.76	NO	2.114e4	1.9636	1.9636	0.121
3	Total Tetra-Furans	20.77	4.161e5	5.595e5	3.658e4	4.775e4	0.77	NO	8.433e4	7.8324	7.8324	0.121
4	Total Tetra-Furans	21.35	2.423e5	3.252e5	3.492e4	4.643e4	0.75	NO	8.136e4	7.5566	7.5566	0.121
5	Total Tetra-Furans	21.62	1.870e5	2.746e5	7.834e3	1.070e4	0.73	NO	1.854e4	1.7219	1.7219	0.121
6	Total Tetra-Furans	21.71	1.954e6	2.549e6	1.776e5	2.388e5	0.74	NO	4.164e5	38.675	38.675	0.121
7	Total Tetra-Furans	22.17	6.094e5	8.145e5	5.849e4	7.828e4	0.75	NO	1.368e5	12.704	12.704	0.121
8	Total Tetra-Furans	22.35	4.925e4	5.629e4	4.148e3	5.264e3	0.79	NO	9.412e3	0.87420	0.87420	0.121
9	Total Tetra-Furans	22.55	2.727e5	3.709e5	2.661e4	3.559e4	0.75	NO	6.219e4	5.7767	5.7767	0.121
10	Total Tetra-Furans	22.98	7.083e4	9.168e4	6.306e3	8.573e3	0.74	NO	1.488e4	1.3820	1.3820	0.121
11	Total Tetra-Furans	23.12	3.552e4	4.521e4	2.851e3	3.706e3	0.77	NO	6.557e3	0.60900	0.60900	0.121
12	Total Tetra-Furans	23.30	3.543e5	4.772e5	2.874e4	3.924e4	0.73	NO	6.798e4	6.3140	6.3140	0.121
13	Total Tetra-Furans	23.40	7.334e5	9.644e5	6.962e4	9.337e4	0.75	NO	1.630e5	15.139	15.139	0.121
14	Total Tetra-Furans	23.94	7.830e6	1.055e7	6.542e5	8.759e5	0.75	NO	1.530e6	142.12	142.12	0.121
15	Total Tetra-Furans	24.06	1.021e5	1.229e5	5.924e3	7.875e3	0.75	NO	1.380e4	1.2817	1.2817	0.121
16	Total Tetra-Furans	24.24	3.176e5	4.416e5	2.816e4	3.813e4	0.74	NO	6.629e4	6.1574	6.1574	0.121
17	Total Tetra-Furans	24.45	3.733e4	4.525e4	4.163e3	5.717e3	0.73	NO	9.880e3	0.91767	0.91767	0.121
18	Total Tetra-Furans	24.67	1.186e5	1.464e5	8.844e3	1.171e4	0.76	NO	2.056e4	1.9094	1.9094	0.121
19	Total Tetra-Furans	24.78	1.013e6	1.354e6	6.439e4	8.703e4	0.74	NO	1.514e5	14.064	14.064	0.121
20	2,3,7,8-TCDF	24.90	8.942e6	1.214e7	7.126e5	9.563e5	0.75	NO	1.669e6	155.01	155.01	0.121
21	Total Tetra-Furans	25.00	1.309e5	1.850e5	1.230e4	1.553e4	0.79	NO	2.783e4	2.5847	2.5847	0.121
22	Total Tetra-Furans	25.27	4.040e5	5.366e5	3.381e4	4.350e4	0.78	NO	7.730e4	7.1799	7.1799	0.121
23	Total Tetra-Furans	25.53	9.087e4	1.044e5	6.008e3	7.493e3	0.80	NO	1.350e4	1.2540	1.2540	0.121
24	Total Tetra-Furans	26.35	4.637e4	2.670e4	2.704e3	1.800e3	1.50	YES	0.000e0	0.00000	0.29589	0.121
25	Total Tetra-Furans	26.45	9.086e3	1.195e4	6.549e2	8.897e2	0.74	NO	1.545e3	0.14346	0.14346	0.121
26	Total Tetra-Furans	26.63	2.392e4	1.883e4	1.582e3	1.573e3	1.01	YES	0.000e0	0.00000	0.25853	0.121
27	Total Tetra-Furans	26.93	1.561e6	1.540e6	1.032e5	9.868e4	1.05	YES	0.000e0	0.00000	16.223	0.121

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	26.95	3.961e6	2.460e6	2.573e5	1.624e5	1.58	NO	4.197e5	41.165	41.165	0.0557

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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	28.41	4.525e5	3.045e5	2.580e4	1.716e4	1.50	NO	4.296e4	4.2137	4.2137	0.353
2	Total Penta-Furans	28.55	1.428e7	9.299e6	8.656e5	5.678e5	1.52	NO	1.433e6	140.58	140.58	0.353
3	Total Penta-Furans	29.14	7.125e5	4.675e5	4.953e4	3.324e4	1.49	NO	8.277e4	8.1182	8.1182	0.353
4	Total Penta-Furans	29.20	3.850e5	2.619e5	1.706e4	1.100e4	1.55	NO	2.807e4	2.7529	2.7529	0.353
5	Total Penta-Furans	29.35	3.557e6	2.328e6	1.895e5	1.221e5	1.55	NO	3.116e5	30.560	30.560	0.353
6	1,2,3,7,8-PeCDF	29.54	3.004e7	1.989e7	1.639e6	1.073e6	1.53	NO	2.712e6	256.83	256.83	0.340
7	Total Penta-Furans	29.61	9.151e5	5.777e5	3.854e4	2.393e4	1.61	NO	6.247e4	6.1273	6.1273	0.353
8	Total Penta-Furans	29.81	1.135e7	7.261e6	5.927e5	3.800e5	1.56	NO	9.727e5	95.398	95.398	0.353
9	Total Penta-Furans	30.30	7.529e4	4.653e4	4.013e3	2.328e3	1.72	NO	6.340e3	0.62187	0.62187	0.353
10	Total Penta-Furans	30.41	2.041e5	1.387e5	9.997e3	6.903e3	1.45	NO	1.690e4	1.6576	1.6576	0.353
11	2,3,4,7,8-PeCDF	30.53	1.323e7	8.629e6	6.267e5	4.140e5	1.51	NO	1.041e6	100.94	100.94	0.350
12	Total Penta-Furans	30.55	1.011e7	6.377e6	2.793e5	1.755e5	1.59	NO	4.548e5	44.604	44.604	0.353
13	Total Penta-Furans	31.46	9.015e5	5.884e5	4.651e4	3.116e4	1.49	NO	7.767e4	7.6178	7.6178	0.353

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.18	1.658e6	1.411e6	8.471e4	7.249e4	1.17	NO	1.572e5	22.045	22.045	0.303
2	Total Hexa-Furans	32.34	6.202e6	5.252e6	3.224e5	2.720e5	1.19	NO	5.944e5	83.351	83.351	0.303
3	Total Hexa-Furans	32.70	1.281e5	1.105e5	7.025e3	5.846e3	1.20	NO	1.287e4	1.8050	1.8050	0.303
4	Total Hexa-Furans	32.88	6.649e6	5.716e6	3.475e5	2.954e5	1.18	NO	6.428e5	90.150	90.150	0.303
5	Total Hexa-Furans	33.24	4.756e5	4.108e5	2.264e4	1.964e4	1.15	NO	4.228e4	5.9290	5.9290	0.303
6	1,2,3,4,7,8-HxCDF	33.34	3.381e7	2.841e7	1.851e6	1.563e6	1.18	NO	3.413e6	483.05	483.05	0.268
7	1,2,3,6,7,8-HxCDF	33.45	8.597e6	7.316e6	5.345e5	4.488e5	1.19	NO	9.833e5	134.36	134.36	0.285
8	Total Hexa-Furans	33.56	2.313e5	1.784e5	1.383e4	1.202e4	1.15	NO	2.585e4	3.6256	3.6256	0.303
9	Total Hexa-Furans	33.72	2.866e5	2.342e5	2.112e4	1.840e4	1.15	NO	3.952e4	5.5418	5.5418	0.303
10	2,3,4,6,7,8-HxCDF	34.03	2.116e6	1.820e6	1.285e5	1.098e5	1.17	NO	2.383e5	33.803	33.803	0.313
11	1,2,3,7,8,9-HxCDF	34.95	2.493e6	2.156e6	7.648e4	6.695e4	1.14	NO	1.434e5	23.837	23.837	0.410
12	Total Hexa-Furans	34.96	2.892e6	2.434e6	1.284e5	1.064e5	1.21	NO	2.348e5	32.929	32.929	0.303

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Printed: Thursday, February 13, 2020 12:44:21 PM Pacific Standard Time

Name: 200211R2_14, Date: 12-Feb-2020, Time: 02:11:22, ID: 1903738-06 PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

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	36.66	9.515e6	9.477e6	7.747e5	7.788e5	0.99	NO	1.553e6	315.23	315.23	0.451
2	Total Hepta-Furans	37.06	1.586e5	1.496e5	1.104e4	1.134e4	0.97	NO	2.238e4	5.2392	5.2392	0.513
3	Total Hepta-Furans	37.26	9.695e6	9.862e6	8.310e5	8.416e5	0.99	NO	1.673e6	391.52	391.52	0.513
4	1,2,3,4,7,8,9-HpCDF	38.69	2.594e6	2.691e6	1.938e5	1.973e5	0.98	NO	3.911e5	93.940	93.940	0.519

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Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time

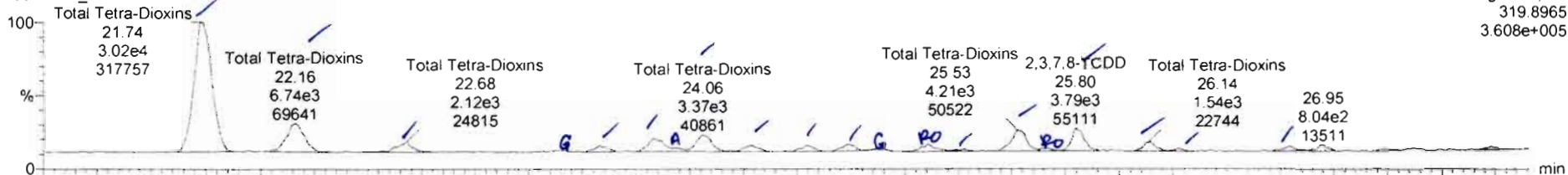
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Name: 200211R2_14, Date: 12-Feb-2020, Time: 02:11:22, ID: 1903738-06 PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

2,3,7,8-TCDD

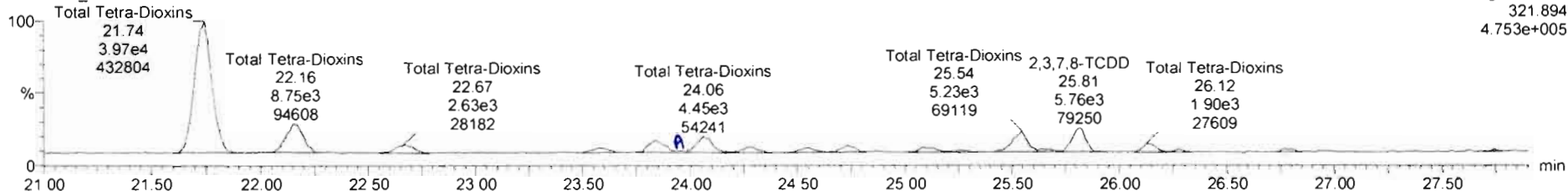
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3.608e+005



200211R2_14

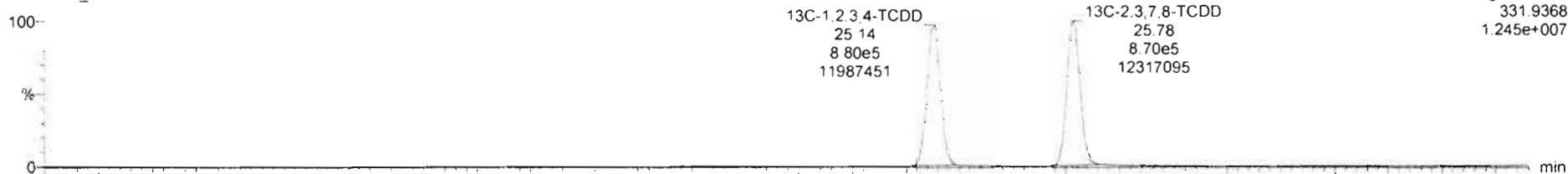
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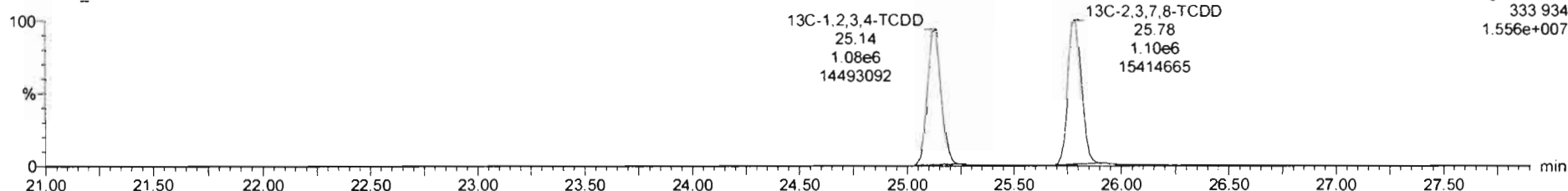
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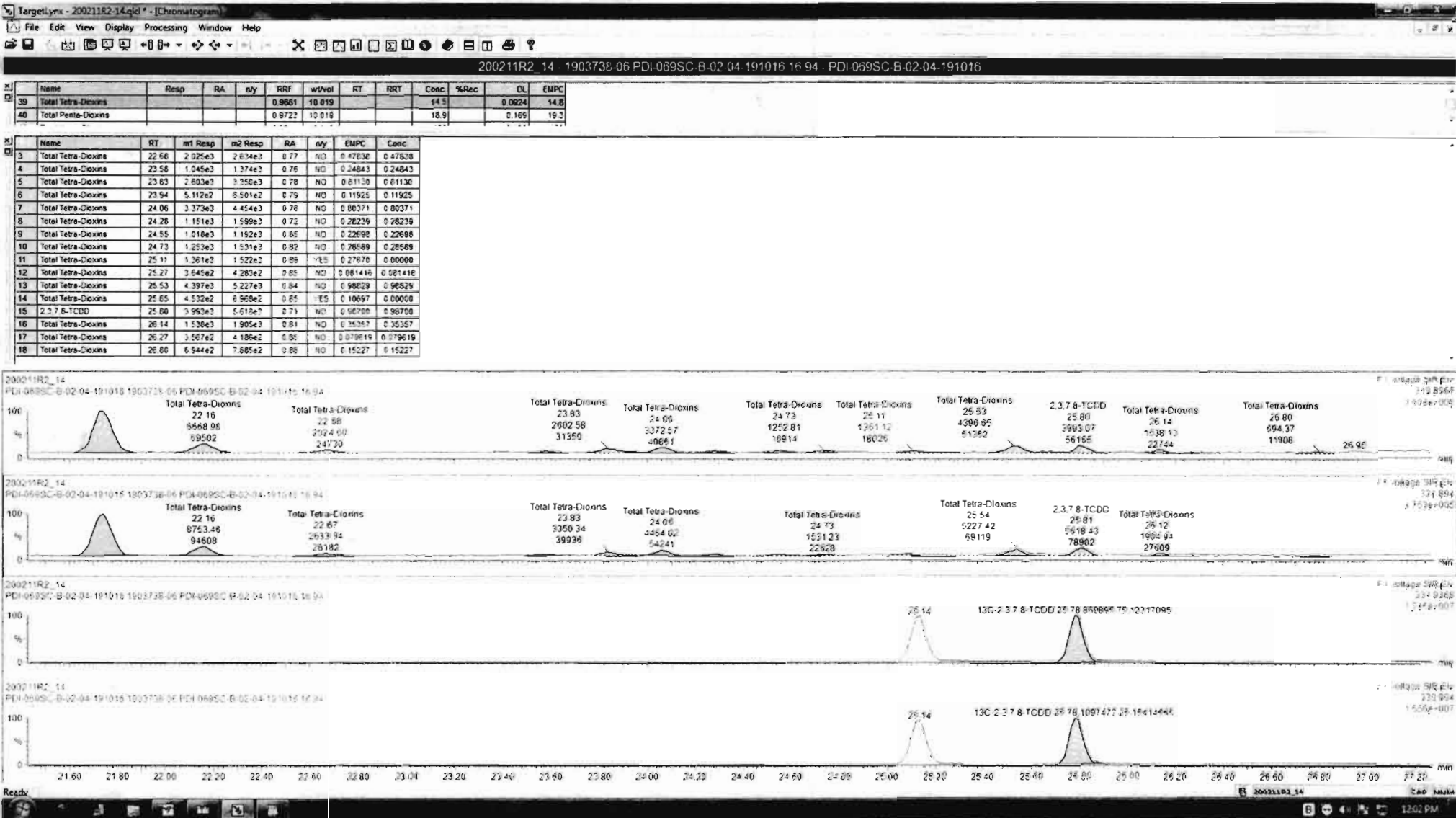
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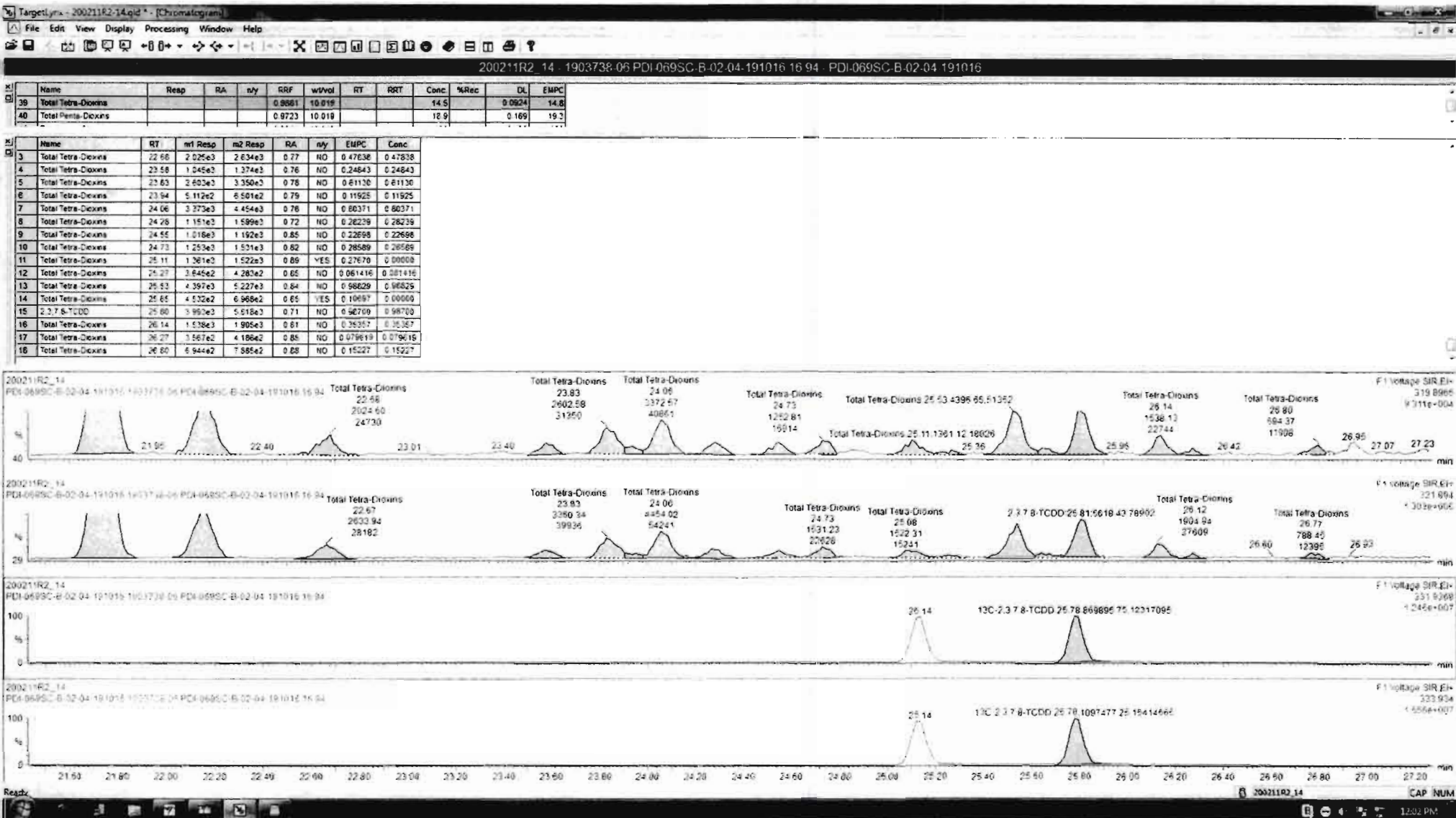


200211R2_14

F1: Voltage SIR, EI+
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1.556e+007







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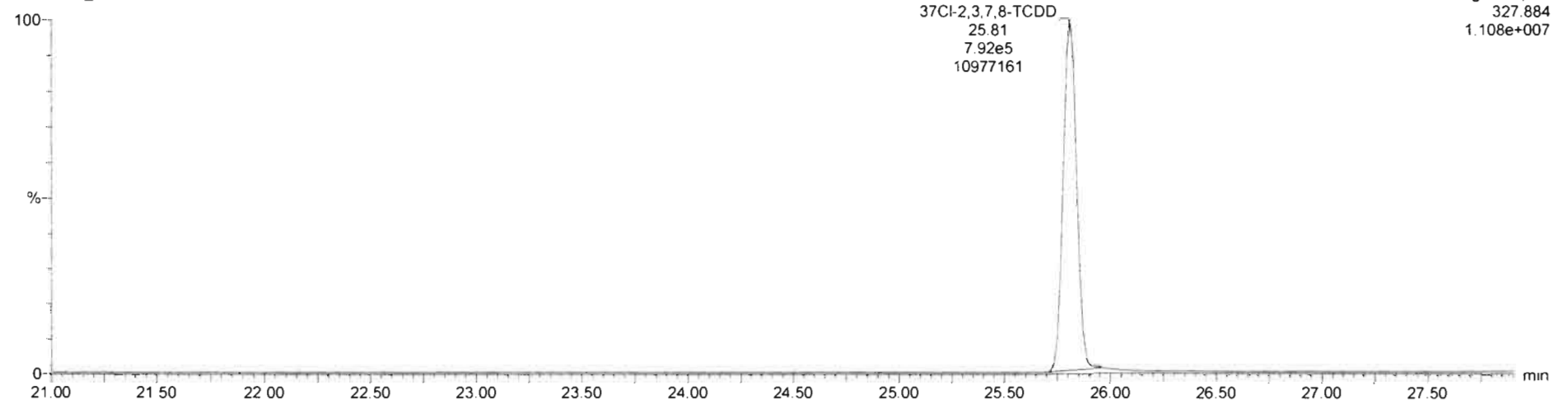
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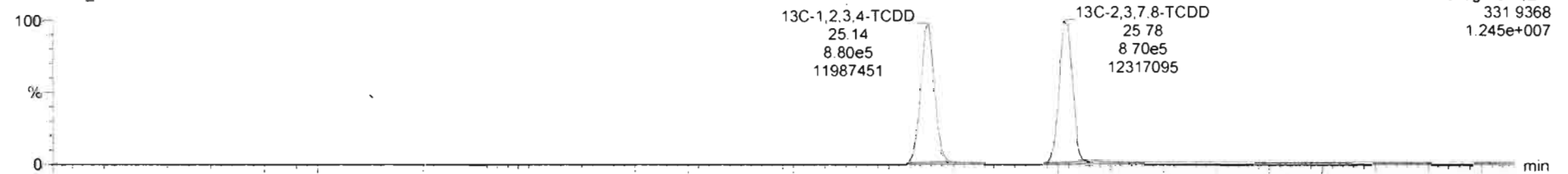
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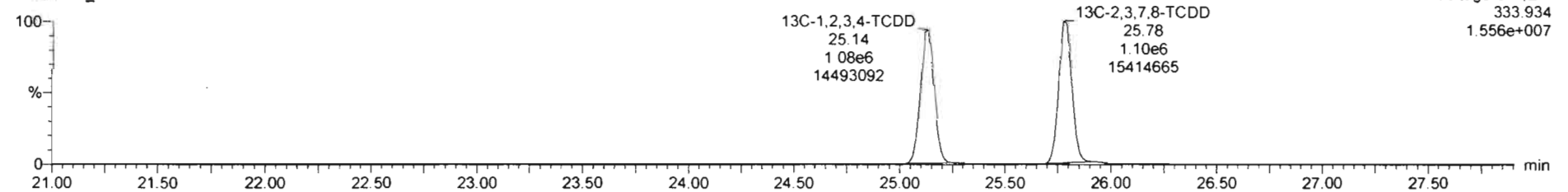


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200211R2_14



200211R2_14

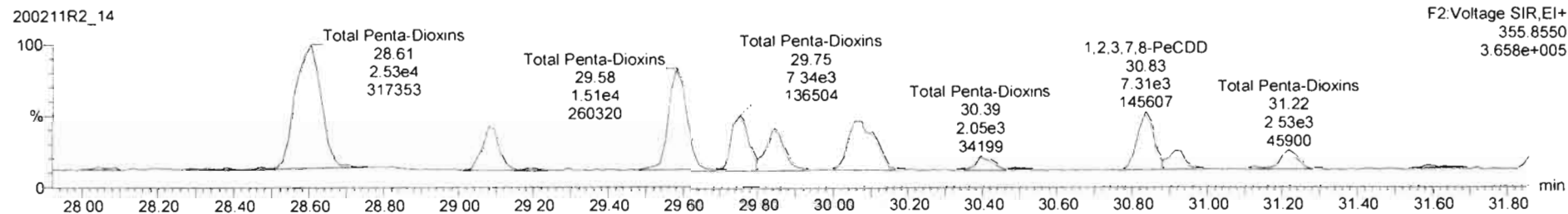
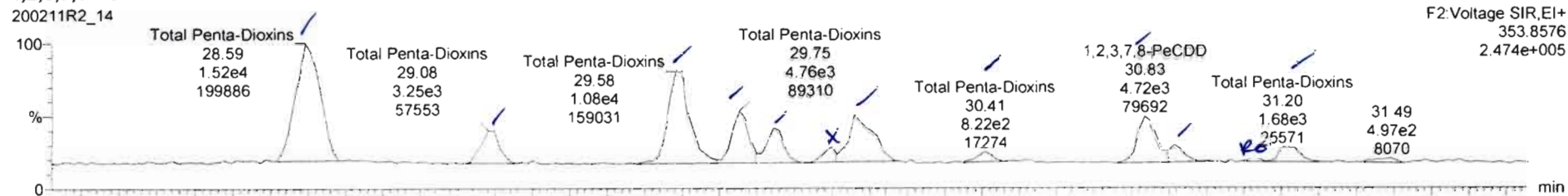


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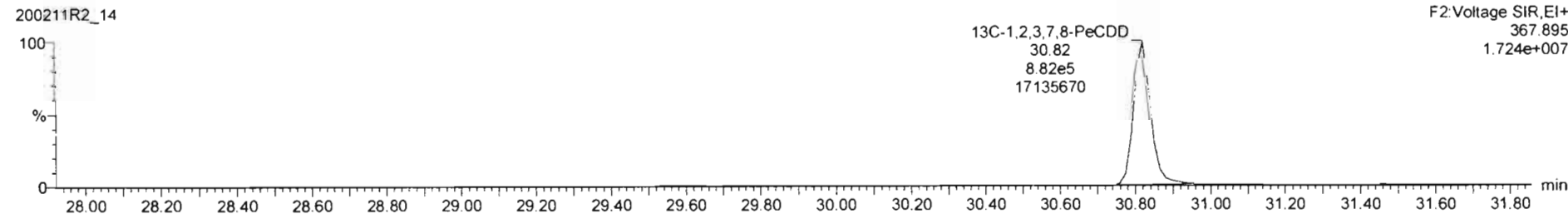
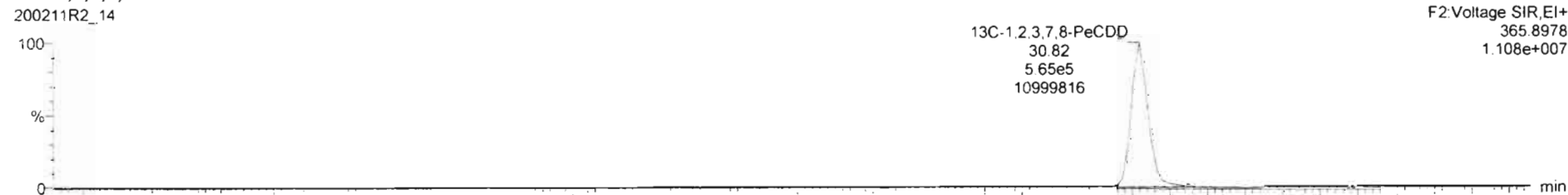
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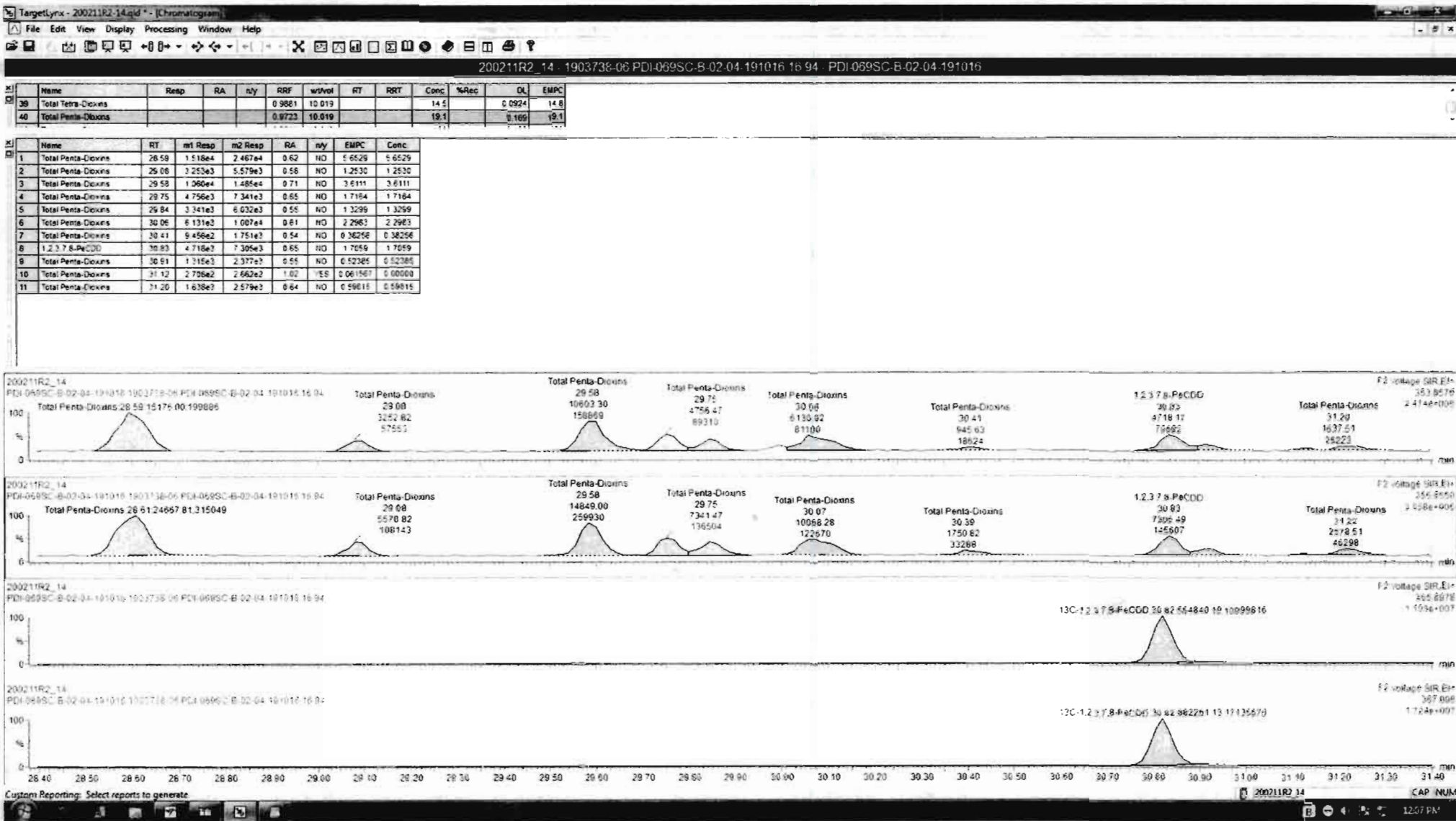
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1,2,3,7,8-PeCDD



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





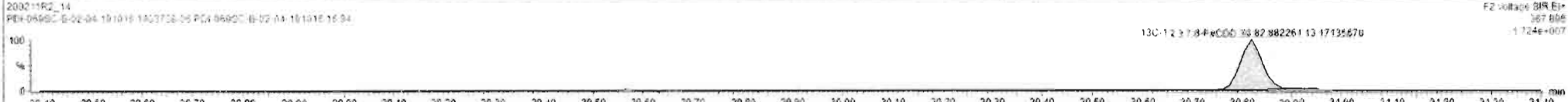
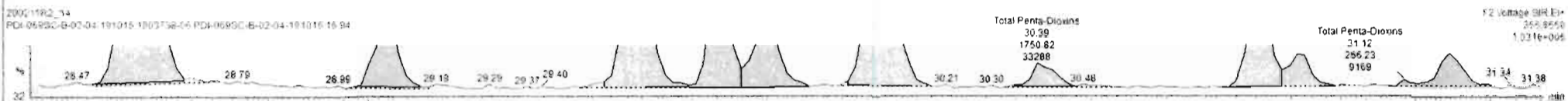
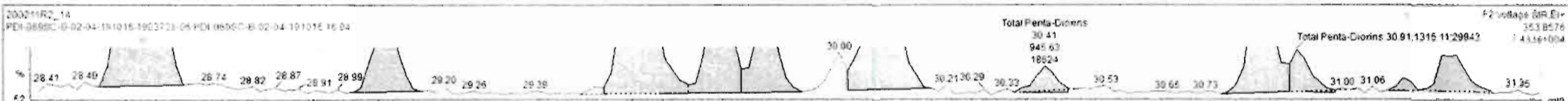
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200211R2_14 - 1903738-06 PDI-069SC-B-02-04-191016 16 94 - PDI-069SC-B-02-04-191016

Name	Resp	RA	ndy	RRF	wtVol	RT	RRT	Cpnc	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9861	10.019			14.5	0.0924		14.9
40	Total Penta-Dioxins			0.9723	10.019			19.1	0.169		19.1

Name	RT	m1 Resp	m2 Resp	RA	ndy	EMPC	Conc
1	Total Penta-Dioxins	28.59	1.518e4	2.467e4	0.62	NO	5.6529
2	Total Penta-Dioxins	29.08	3.253e3	5.579e3	0.58	NO	1.2530
3	Total Penta-Dioxins	29.58	1.360e4	1.485e4	0.71	NO	3.6111
4	Total Penta-Dioxins	29.75	4.756e3	7.341e3	0.65	NO	1.7164
5	Total Penta-Dioxins	29.84	3.341e3	6.032e3	0.55	NO	1.3299
6	Total Penta-Dioxins	30.06	6.131e3	1.007e4	0.61	NO	2.2983
7	Total Penta-Dioxins	30.41	9.456e2	1.751e3	0.54	NO	0.36256
8	1,2,3,7,8-PeCDD	30.83	4.718e3	7.305e3	0.65	NO	1.7059
9	Total Penta-Dioxins	30.91	1.315e3	2.377e3	0.55	NO	0.52385
10	Total Penta-Dioxins	31.12	2.706e2	2.862e2	1.02	YES	0.061567
11	Total Penta-Dioxins	31.20	1.626e3	2.579e3	0.64	NO	0.59815



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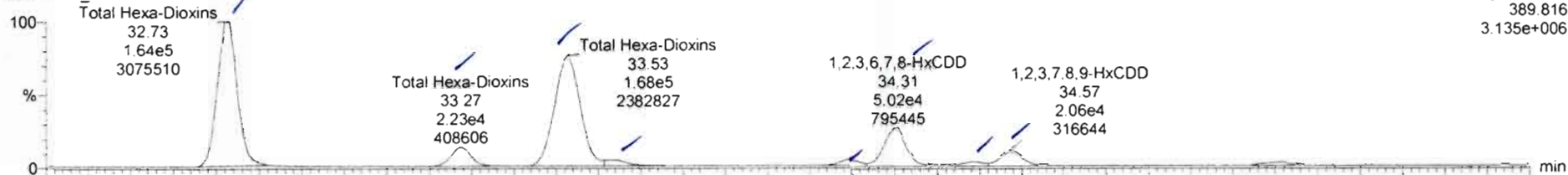
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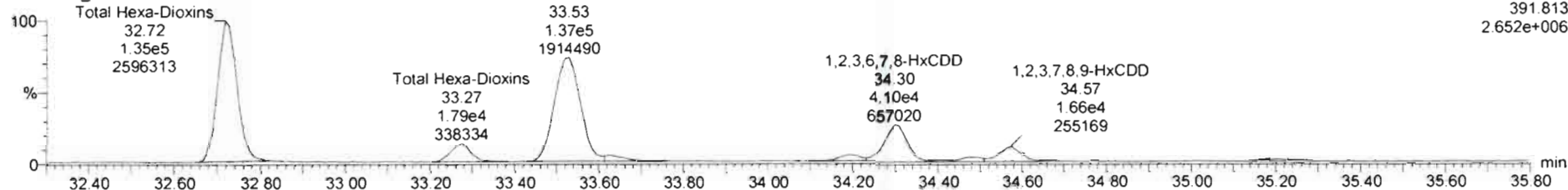
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1,2,3,4,7,8-HxCDD

200211R2_14

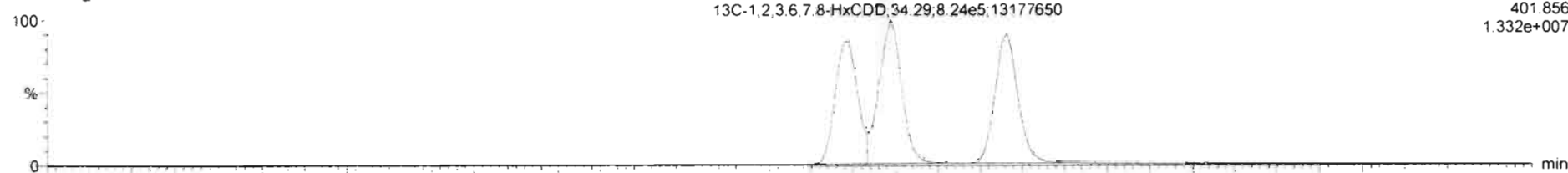


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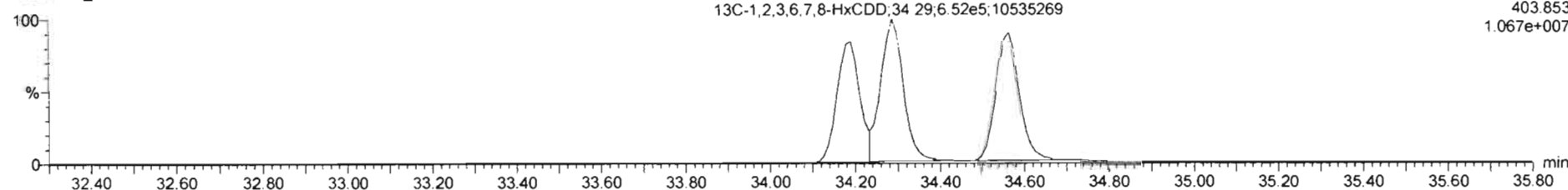


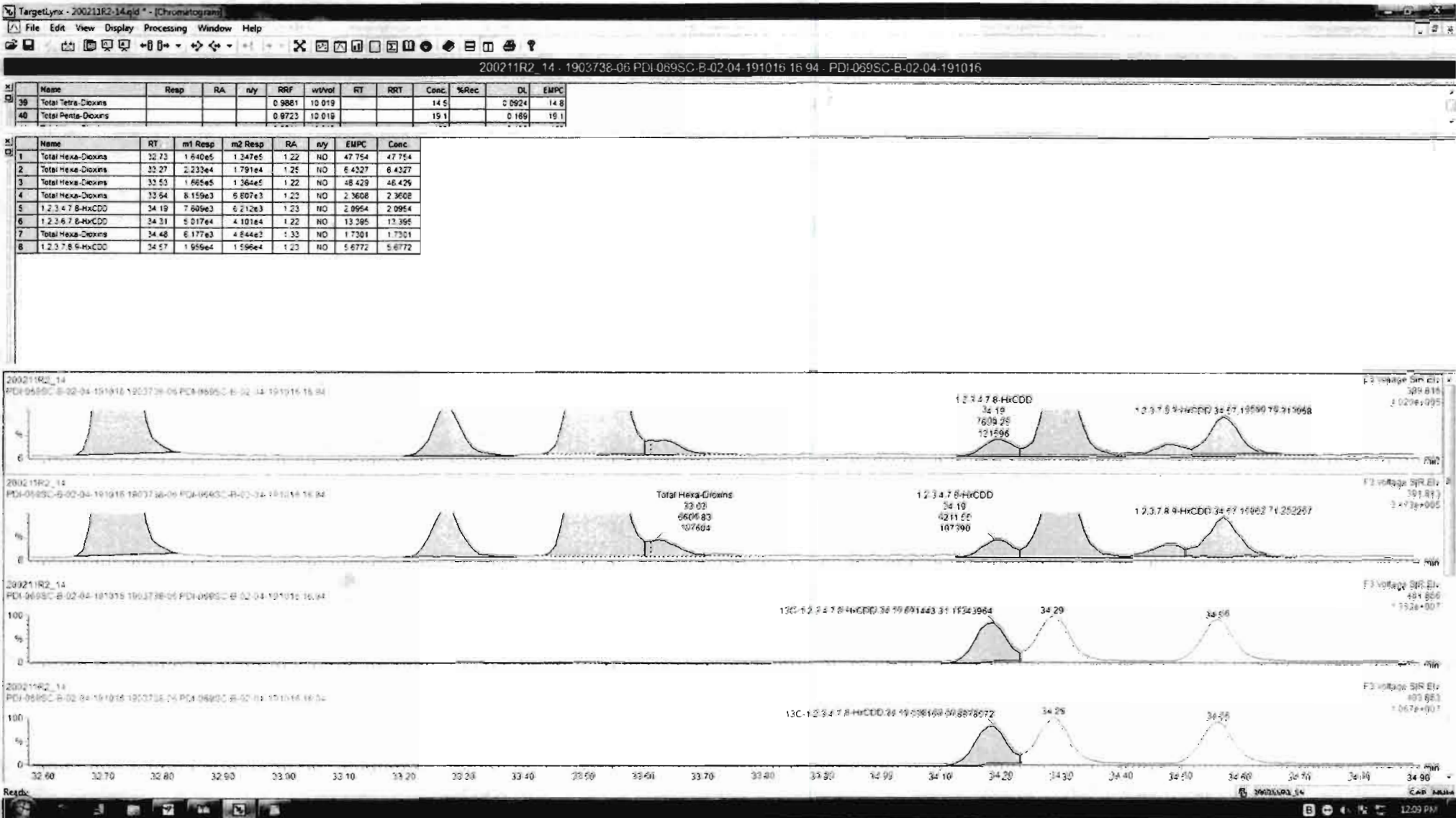
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200211R2_14



200211R2_14





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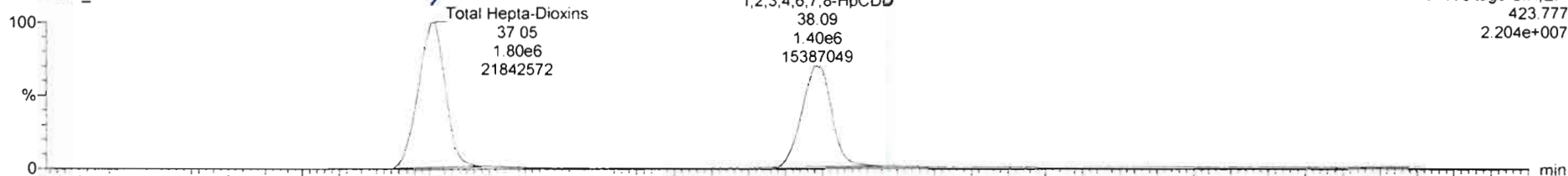
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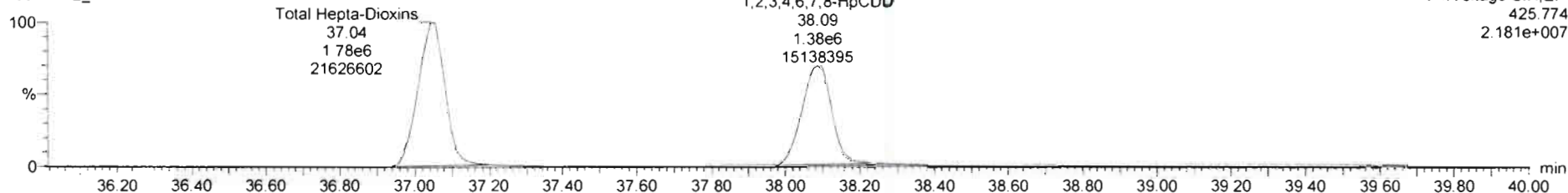
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1,2,3,4,6,7,8-HpCDD

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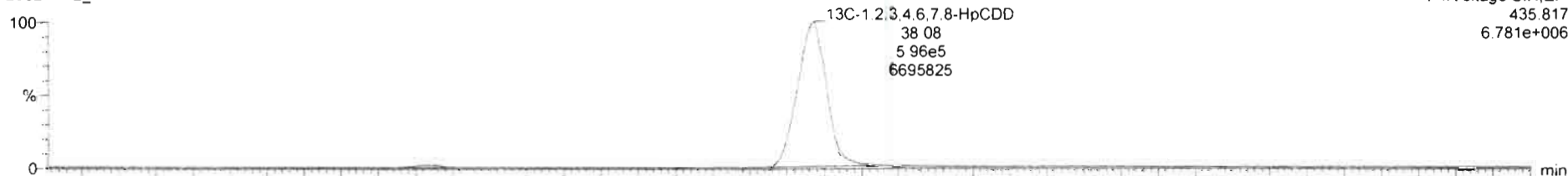


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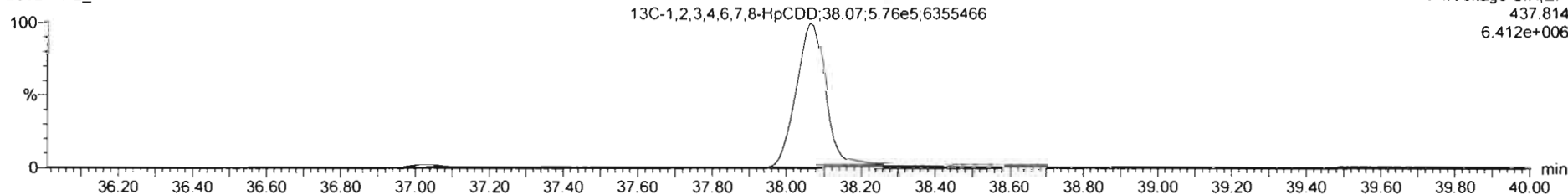


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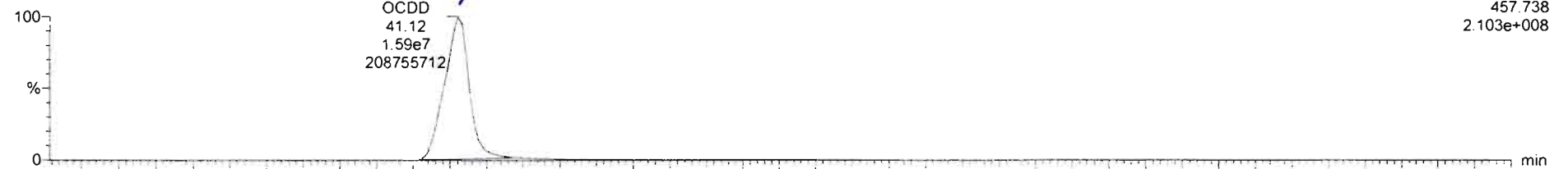
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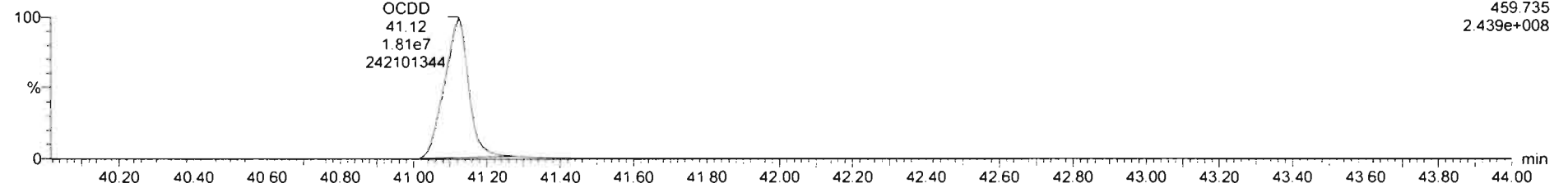
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OCDD

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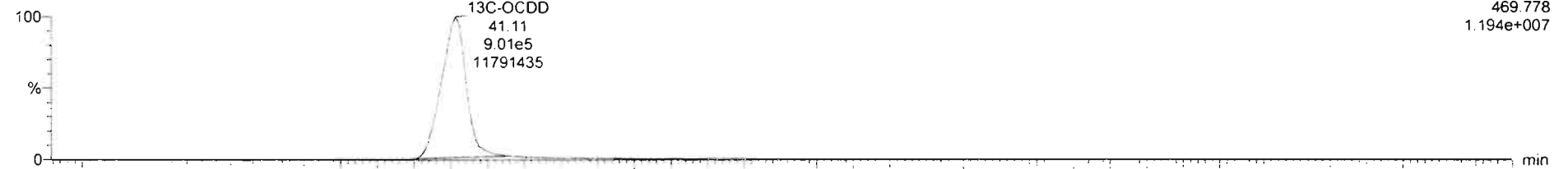


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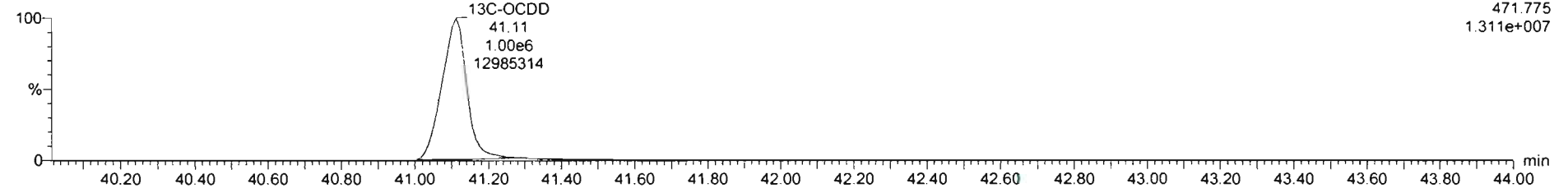


13C-OCDD

200211R2_14



200211R2_14



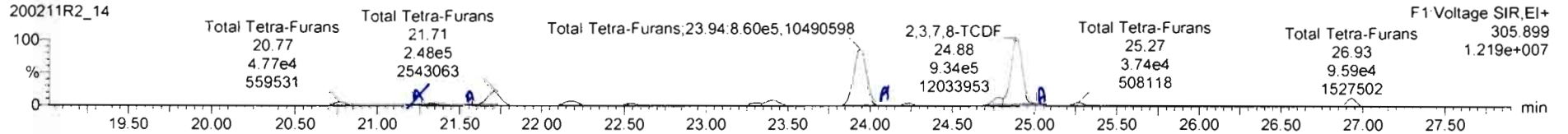
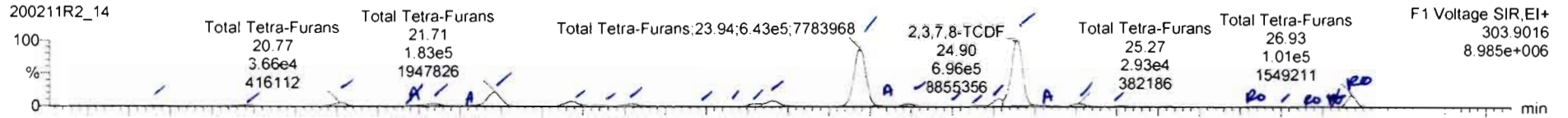
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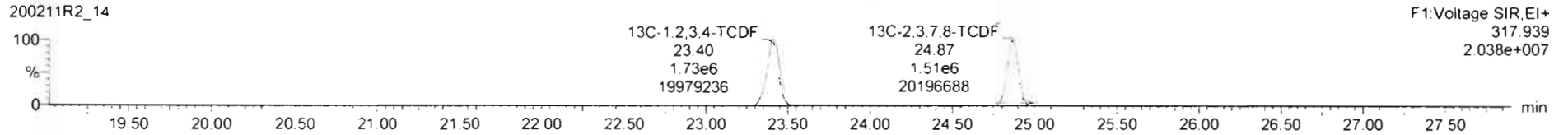
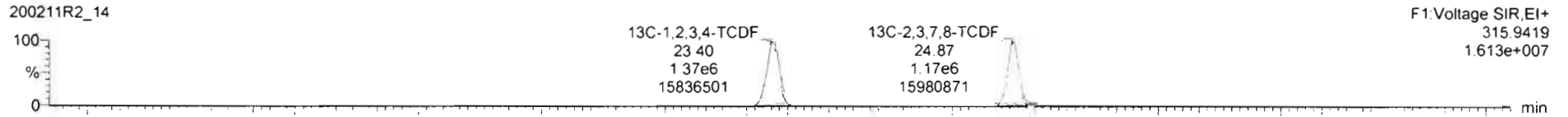
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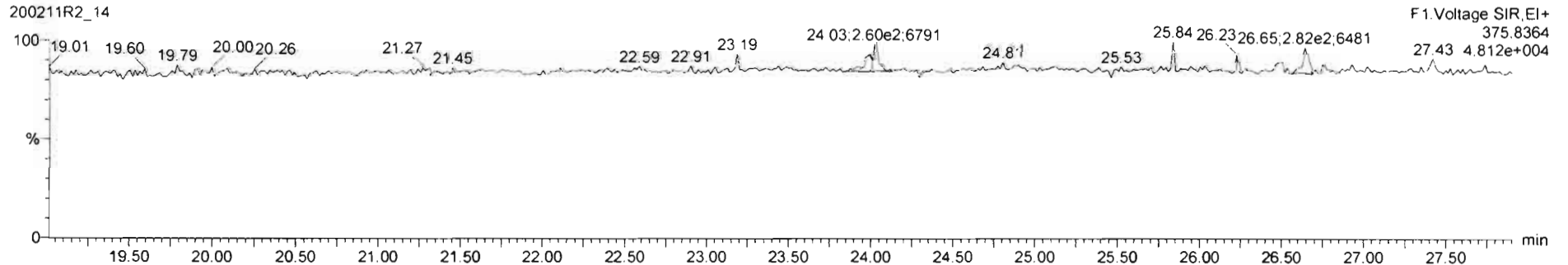
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13C-2,3,7,8-TCDF

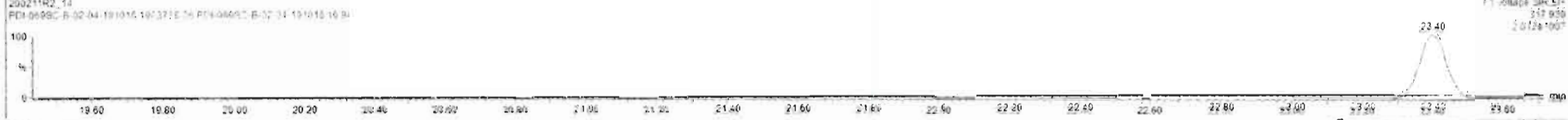
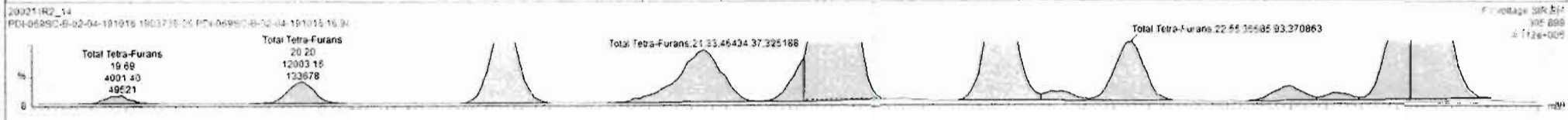
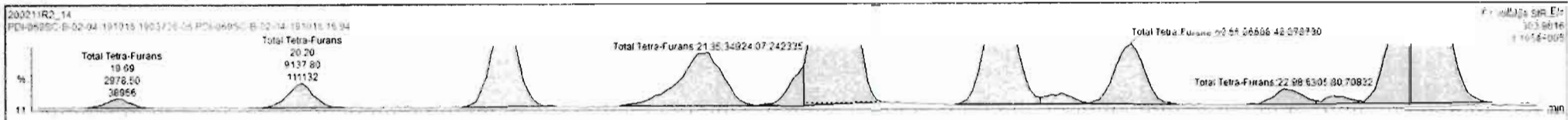


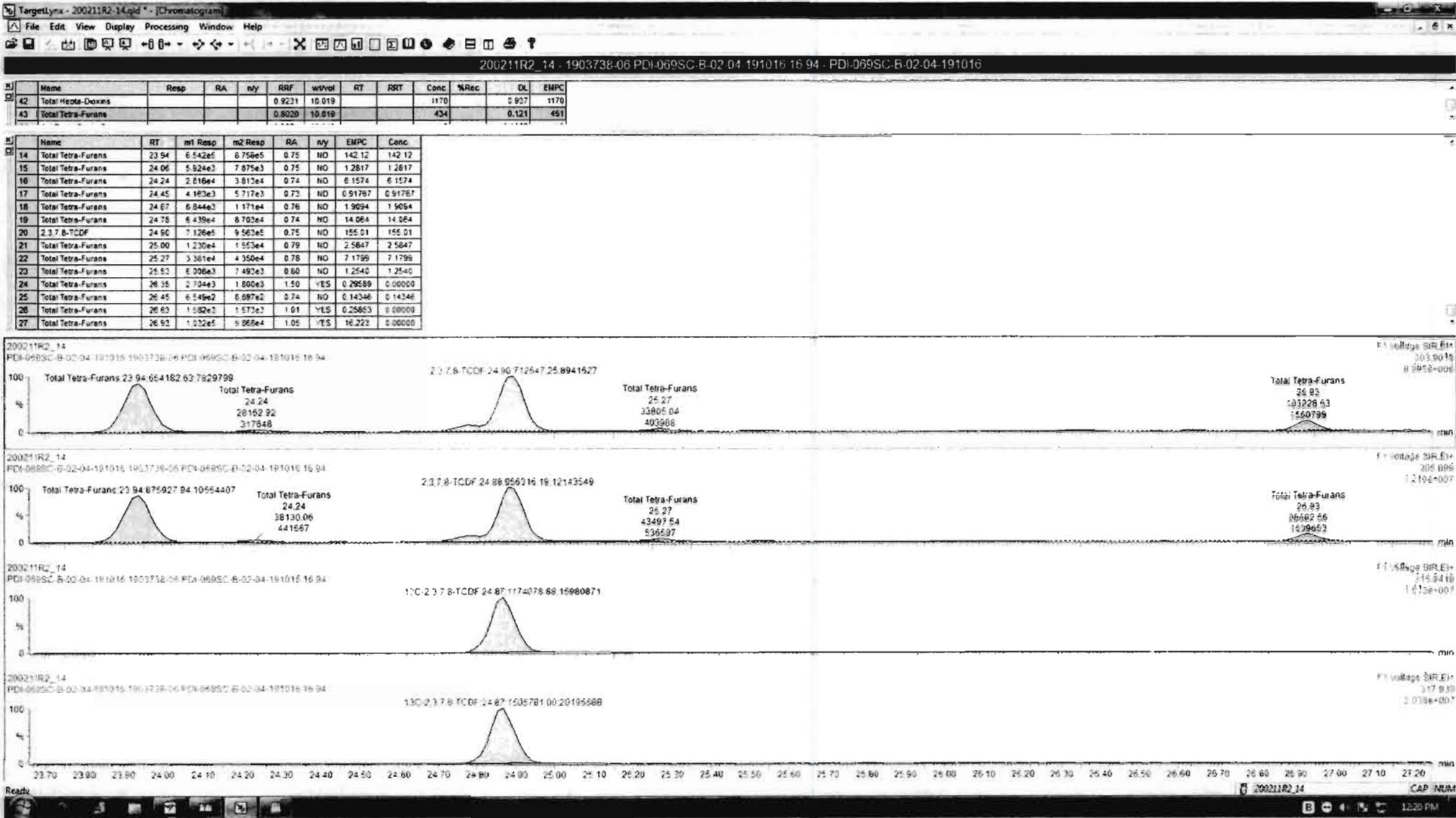
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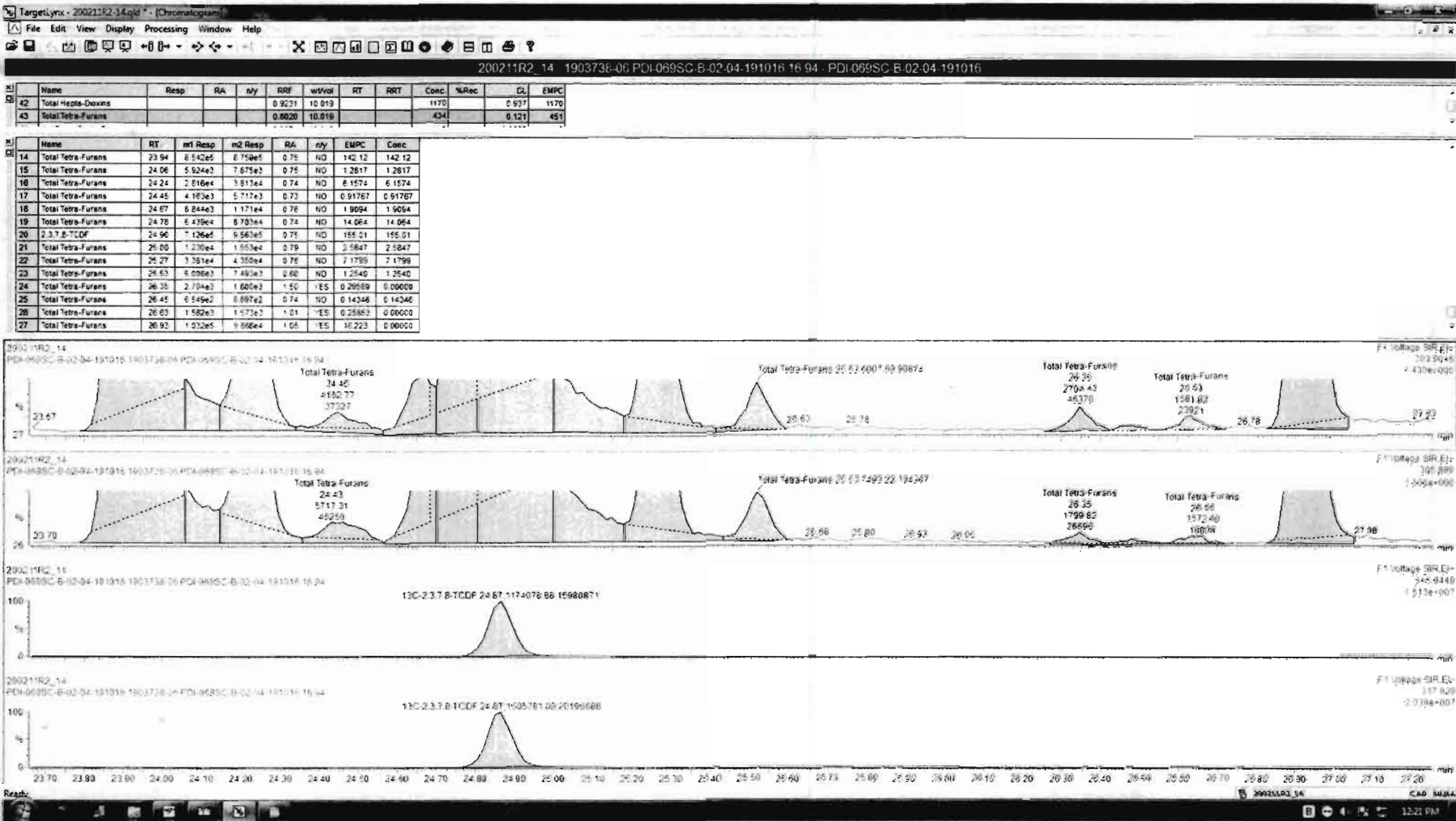


Name	Resp	RA	nly	RRF	wtdVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				0.9231	10.019			1170		0.637	1170
43 Total Tetra-Furans				0.8020	10.019			419		0.121	435

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Furans	19.69	2.579e3	4.001e3	0.74	NO	0.64630	0.64630
2 Total Tetra-Furans	20.20	9.138e3	1.200e4	0.76	NO	1.9636	1.9636
3 Total Tetra-Furans	20.77	3.658e4	4.775e4	0.77	NO	7.8324	7.8324
4 Total Tetra-Furans	21.35	3.492e4	4.643e4	0.75	NO	7.5566	7.5566
5 Total Tetra-Furans	21.62	7.834e3	1.070e4	0.73	NO	1.7219	1.7219
6 Total Tetra-Furans	21.71	1.778e5	2.388e5	0.74	NO	38.675	38.675
7 Total Tetra-Furans	22.17	5.849e4	7.828e4	0.75	NO	12.704	12.704
8 Total Tetra-Furans	22.35	4.148e3	5.264e3	0.79	NO	0.87420	0.87420
9 Total Tetra-Furans	22.55	2.861e4	3.559e4	0.75	NO	5.7767	5.7767
10 Total Tetra-Furans	22.98	8.306e3	8.573e3	0.74	NO	1.3820	1.3820
11 Total Tetra-Furans	23.12	2.851e3	3.796e3	0.77	NO	0.60900	0.60900
12 Total Tetra-Furans	23.30	2.874e4	3.824e4	0.73	NO	6.3140	6.3140
13 Total Tetra-Furans	23.40	5.962e4	9.327e4	0.75	NO	15.139	15.139







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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

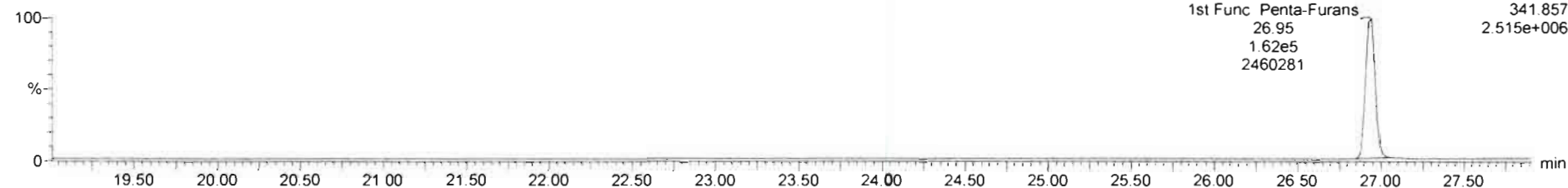
Name: 200211R2_14, Date: 12-Feb-2020, Time: 02:11:22, ID: 1903738-06 PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

1st Func. Penta-Furans

200211R2_14

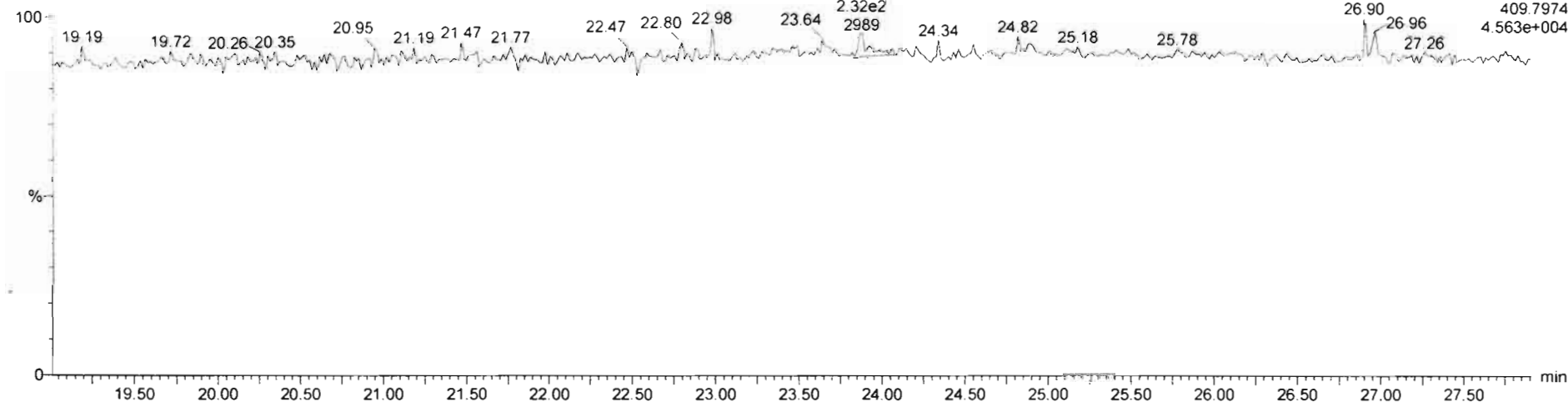


200211R2_14



DPE6

200211R2_14



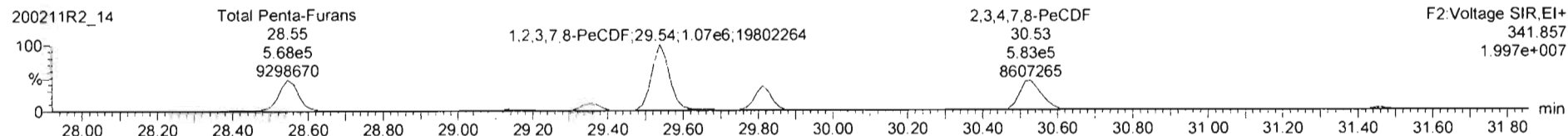
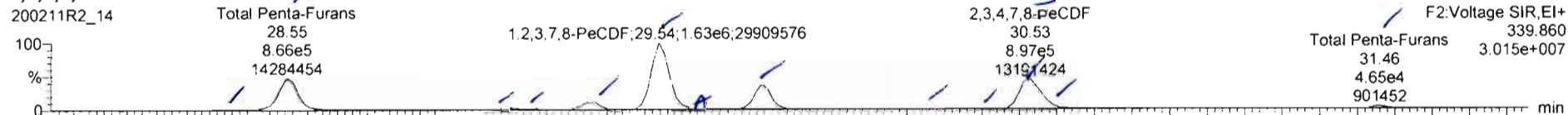
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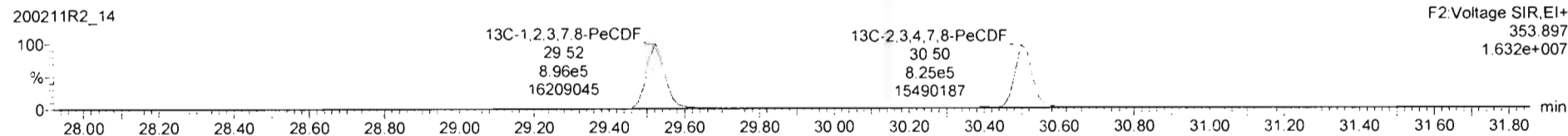
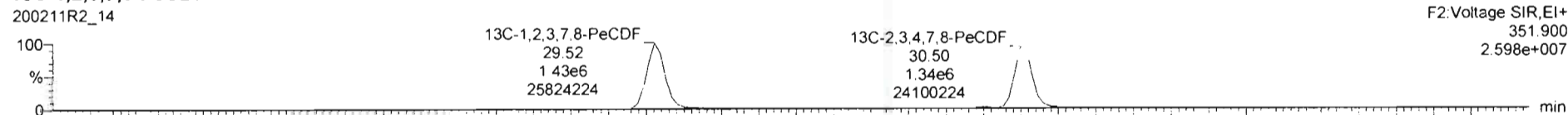
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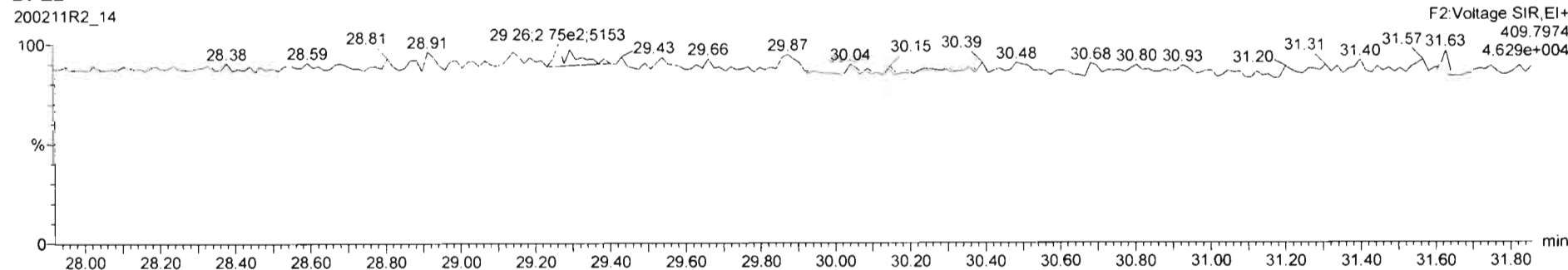
1,2,3,7,8-PeCDF

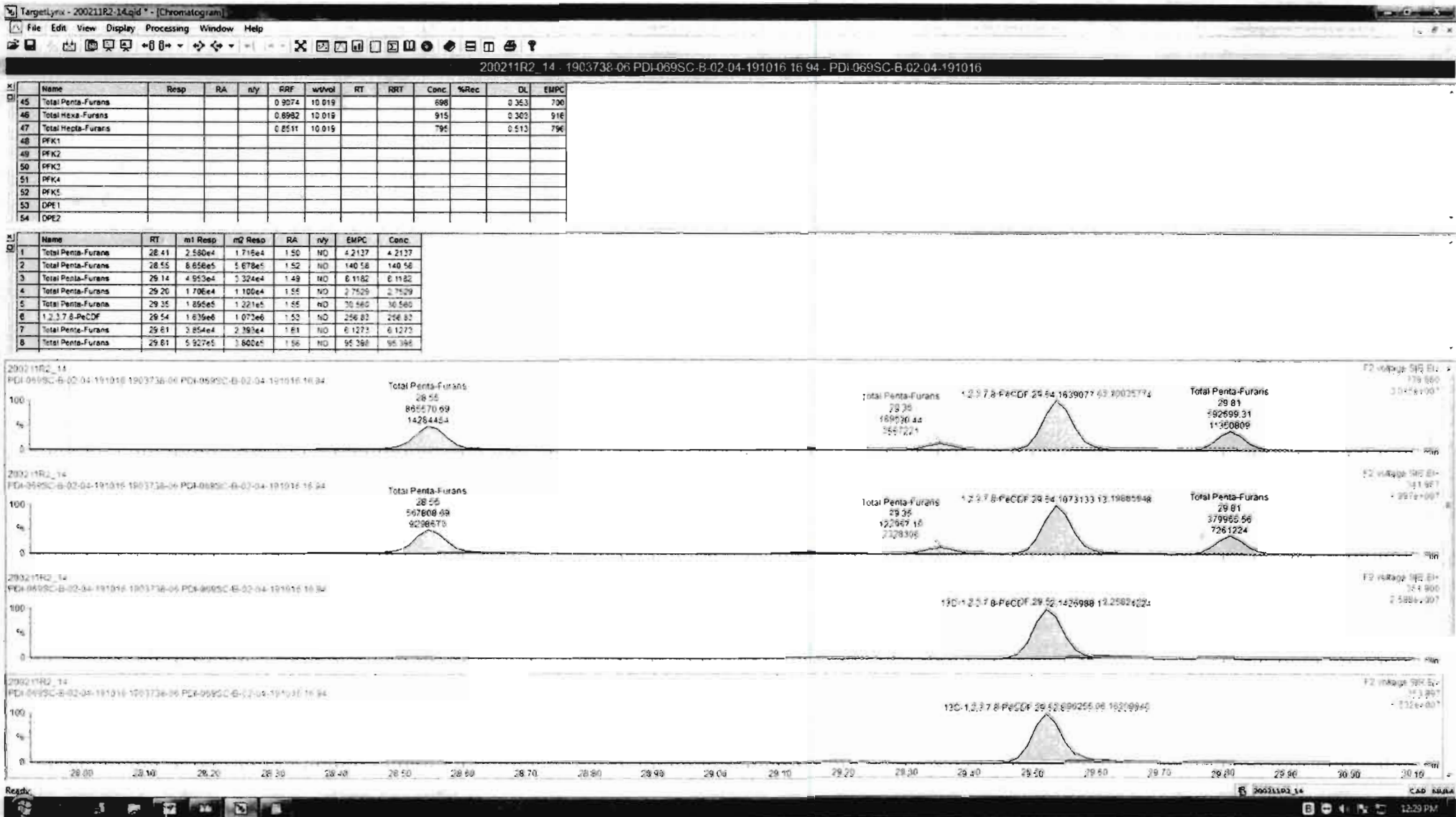


13C-1,2,3,7,8-PeCDF



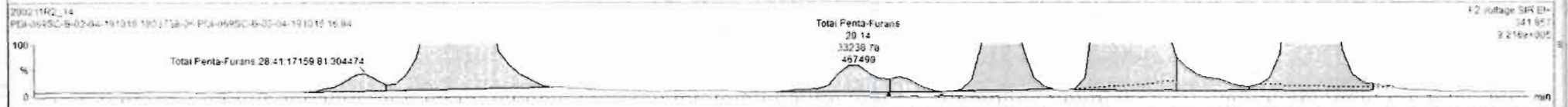
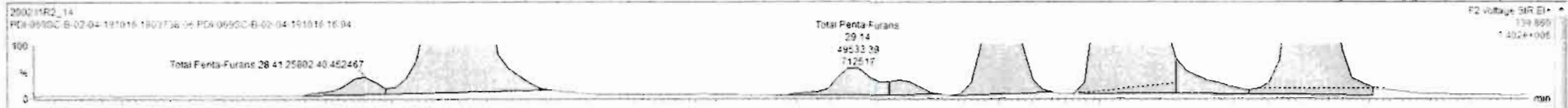
DPE2





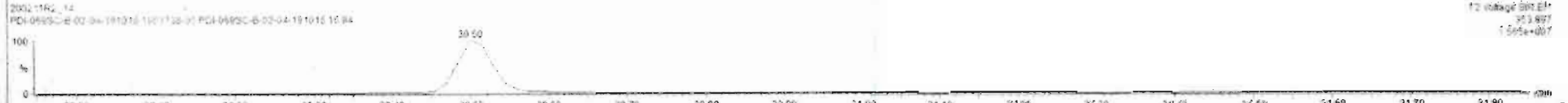
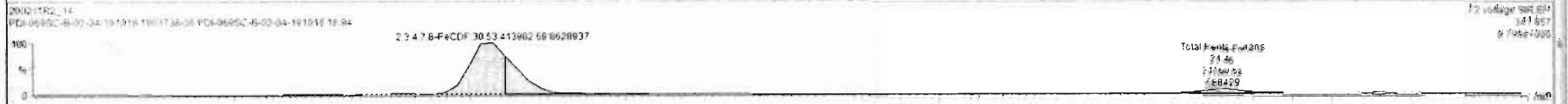
Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.019			698	0.353	700	
46 Total Hexa-Furans				0.8582	10.015			915	0.303	916	
47 Total Hepta-Furans				0.8511	10.015			795	0.513	796	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.41	2.580e4	1.715e4	1.50	NO	4.2137	4.2137
2 Total Penta-Furans	28.55	8.856e5	5.678e5	1.52	NO	140.58	140.58
3 Total Penta-Furans	29.14	4.953e4	3.324e4	1.49	NO	6.1182	6.1182
4 Total Penta-Furans	29.20	1.706e4	1.100e4	1.55	NO	2.7529	2.7529
5 Total Penta-Furans	29.35	1.895e5	1.221e5	1.55	NO	30.560	30.560
6 1,2,3,7,8-PeCDF	28.54	1.639e6	1.073e6	1.50	NO	256.83	256.83
7 Total Penta-Furans	29.61	3.854e4	2.382e4	1.61	NO	6.1273	6.1273
8 Total Penta-Furans	29.81	5.427e5	3.800e5	1.56	NO	95.398	95.398



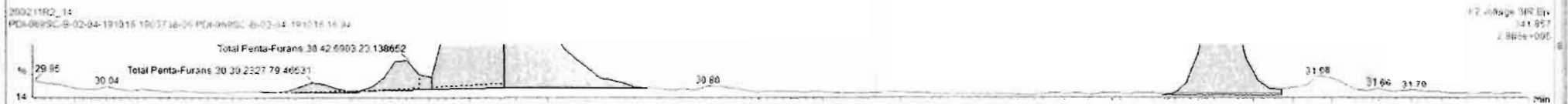
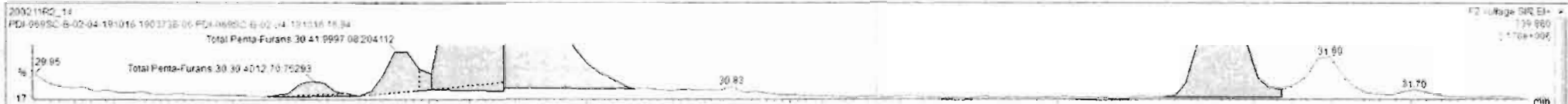
#	Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.019			760	0.353	700	
46	Total Hexa-Furans				0.8982	10.019			915	0.305	916	
47	Total Hepta-Furans				0.8511	10.019			796	0.513	796	
48	PFK1											
49	PFK2											
50	PFK3											
51	PFK4											
52	PFK5											
53	DPE1											
54	DPE2											

#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
6	1,2,3,7,8-PeCDF	29.54	1.839e6	1.073e6	1.53	NO	256.83	256.83
7	Total Penta-Furans	29.61	3.854e4	2.353e4	1.61	ND	6.1273	6.1273
8	Total Penta-Furans	29.91	5.927e5	3.600e5	1.56	ND	95.306	95.306
9	Total Penta-Furans	30.30	4.013e3	2.328e3	1.72	ND	0.62187	0.62187
10	Total Penta-Furans	30.41	9.997e3	6.903e3	1.45	ND	1.6576	1.6576
11	1,2,3,4,7,8-PeCDF	30.53	6.267e5	4.146e5	1.51	ND	100.94	100.94
12	Total Penta-Furans	30.54	2.793e5	1.755e5	1.59	ND	44.604	44.604
13	Total Penta-Furans	31.46	4.651e4	3.116e4	1.49	NO	7.6178	7.6178



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.019			700	0.353	700	
46 Total Hexa-Furans				0.8982	10.019			915	0.300	516	
47 Total Hepta-Furans				0.8511	10.019			795	0.613	796	
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											
52 PFK5											
53 DPE1											
54 DPE2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
6 1,2,3,7,8-PeCDF	29.54	1.630e8	1.073e6	1.53	NO	256.83	256.83
7 Total Penta-Furans	29.81	3.854e4	2.393e4	1.61	NO	6.1273	6.1273
8 Total Penta-Furans	29.81	5.827e5	3.890e5	1.56	NO	95.398	95.398
9 Total Penta-Furans	30.30	4.812e3	2.328e3	1.72	NO	0.62187	0.62187
10 Total Penta-Furans	30.41	9.997e2	6.982e3	1.45	NO	1.6576	1.6576
11 2,3,4,7,8-PeCDF	30.53	6.267e5	4.140e5	1.51	NO	100.94	100.94
12 Total Penta-Furans	30.54	2.793e5	1.755e5	1.59	NO	44.604	44.604
13 Total Penta-Furans	31.48	4.651e4	3.116e4	1.49	NO	7.6178	7.6178



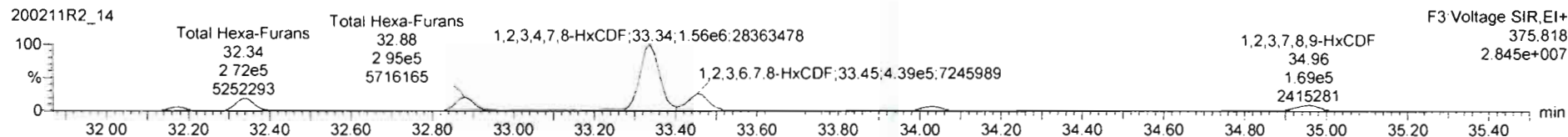
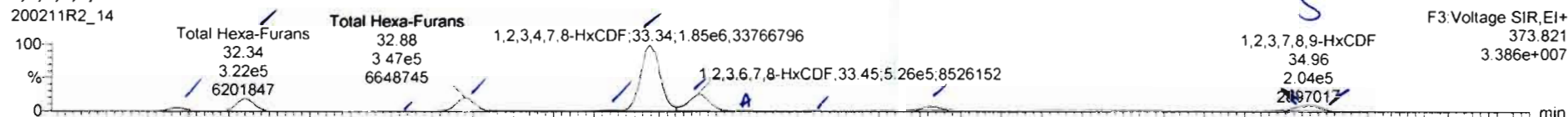
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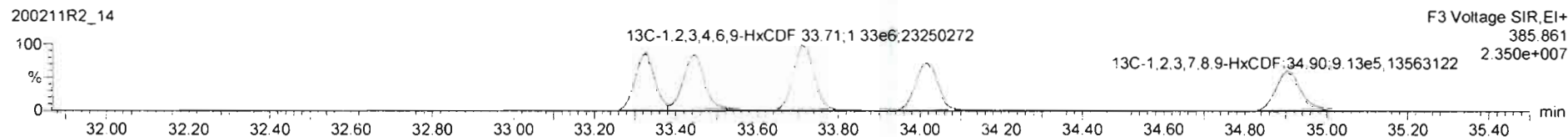
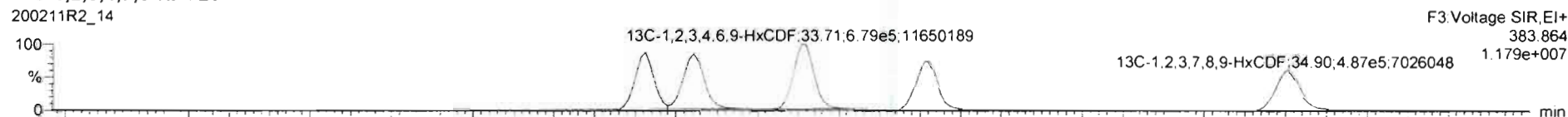
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Name: 200211R2_14, Date: 12-Feb-2020, Time: 02:11:22, ID: 1903738-06 PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

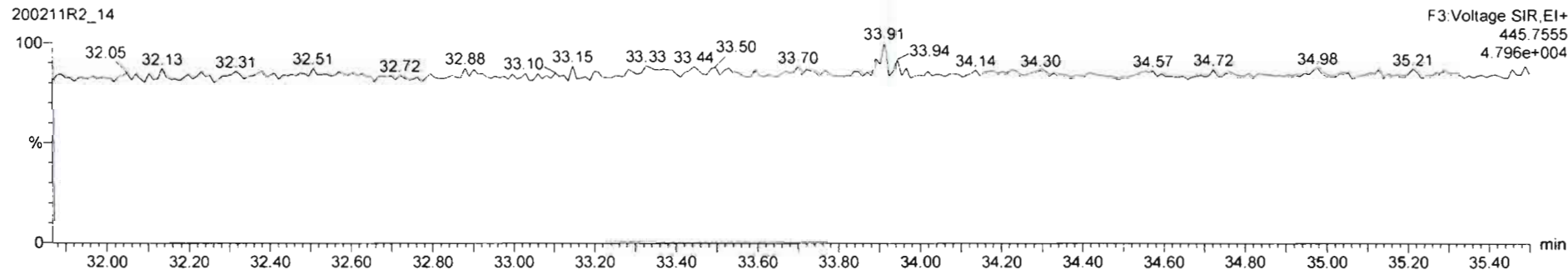
1,2,3,4,7,8-HxCDF

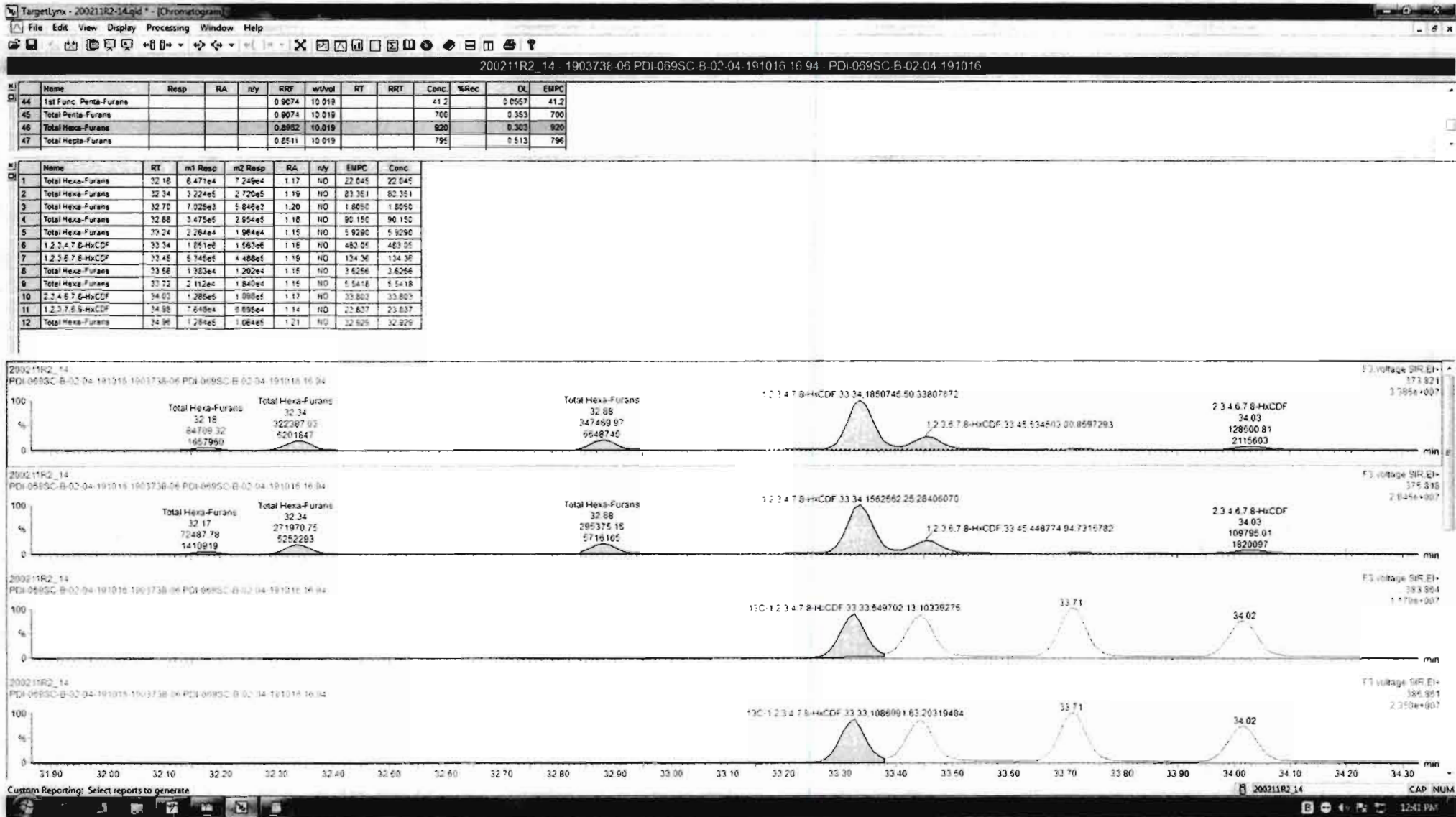


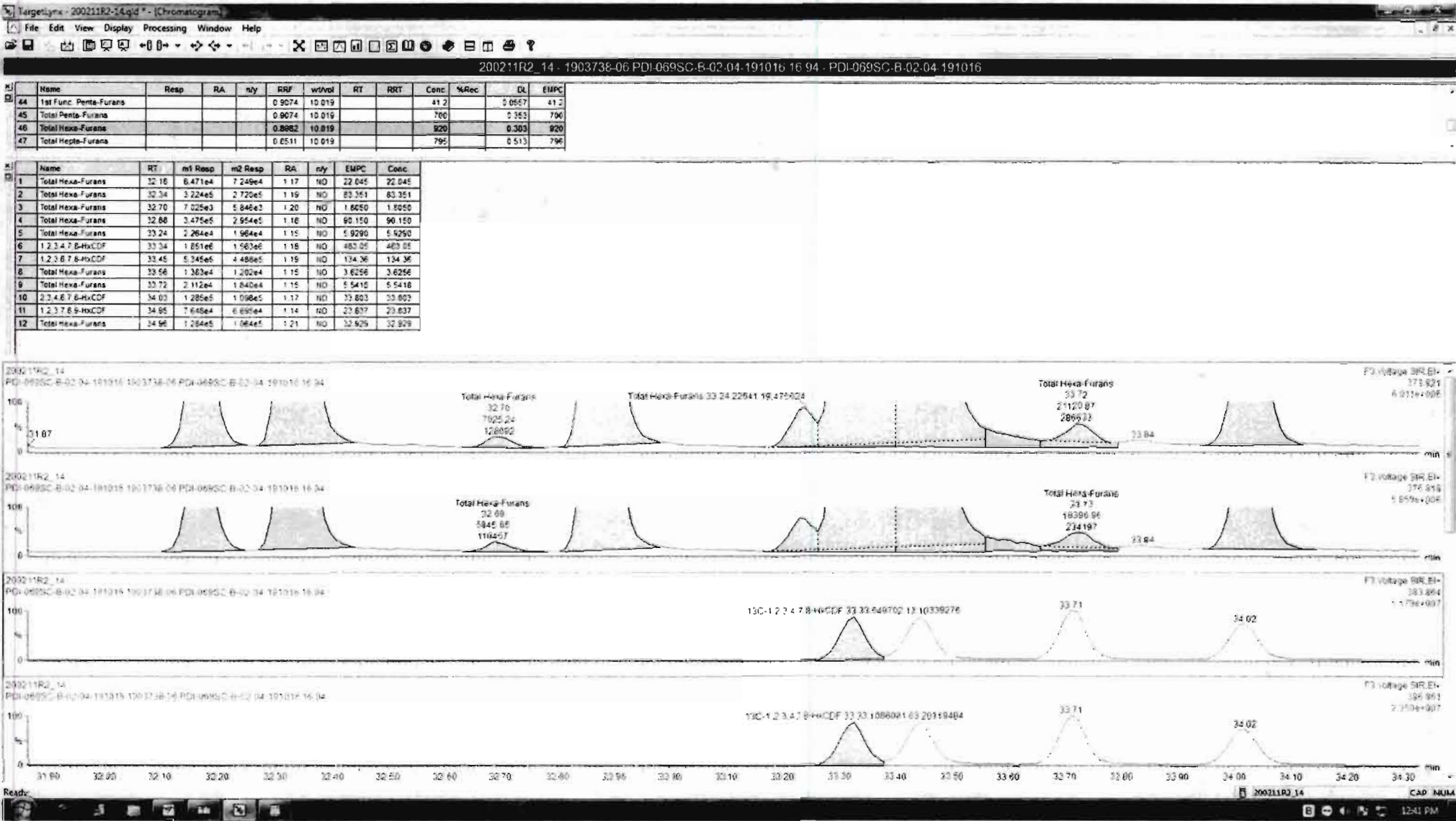
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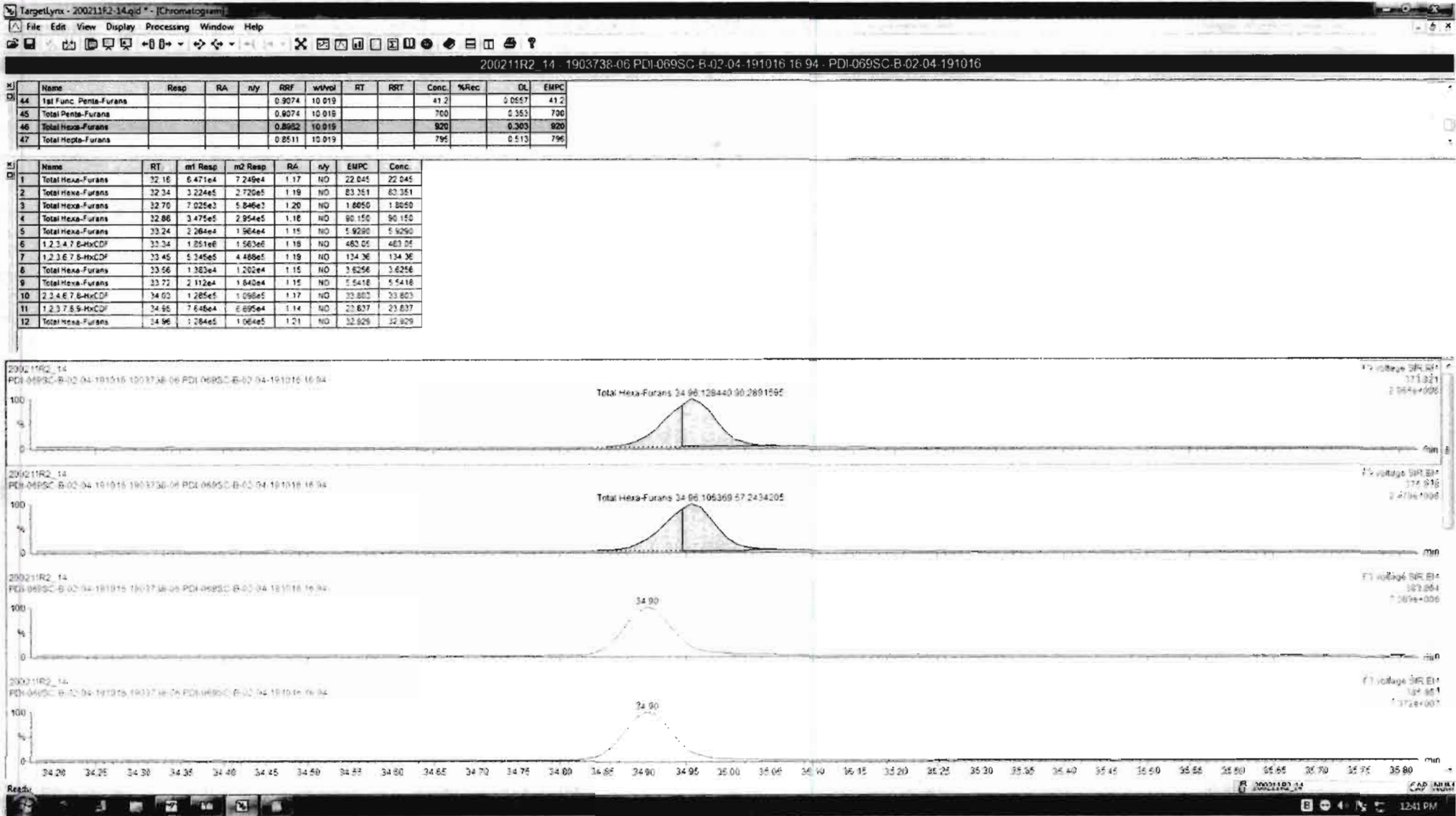


DPE3









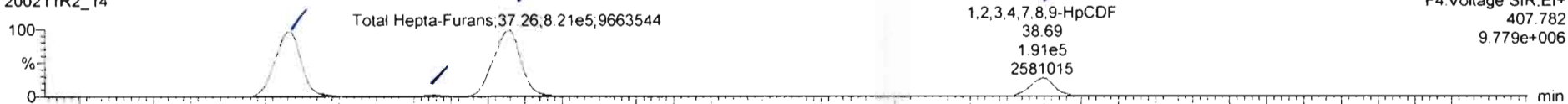
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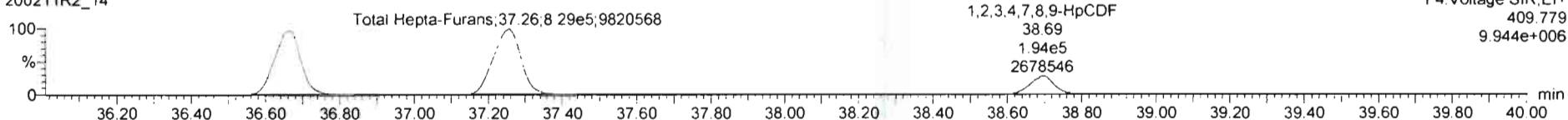
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1,2,3,4,6,7,8-HpCDF

200211R2_14

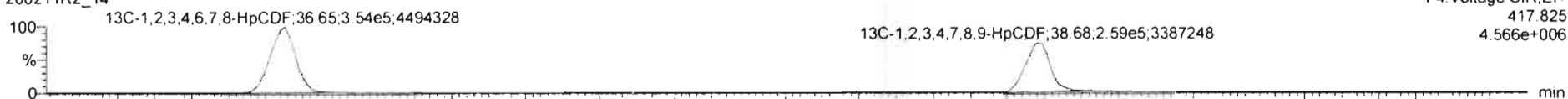


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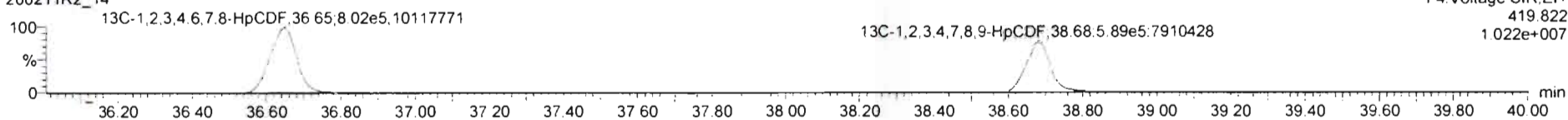


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200211R2_14

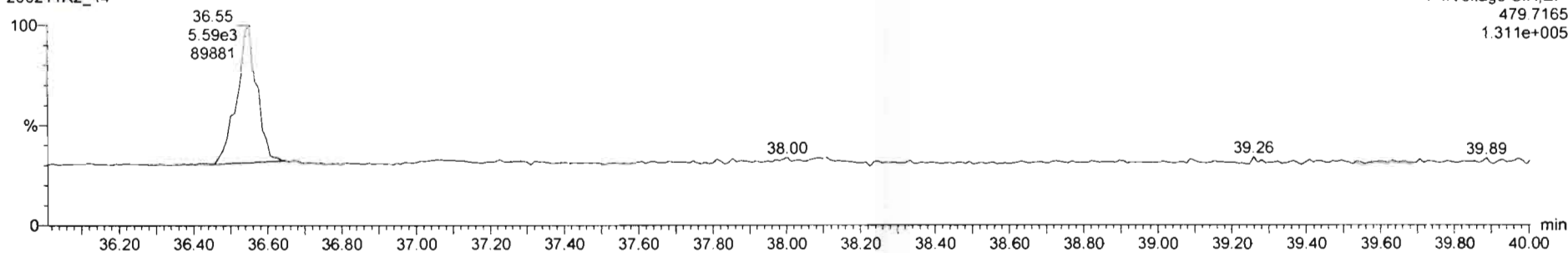


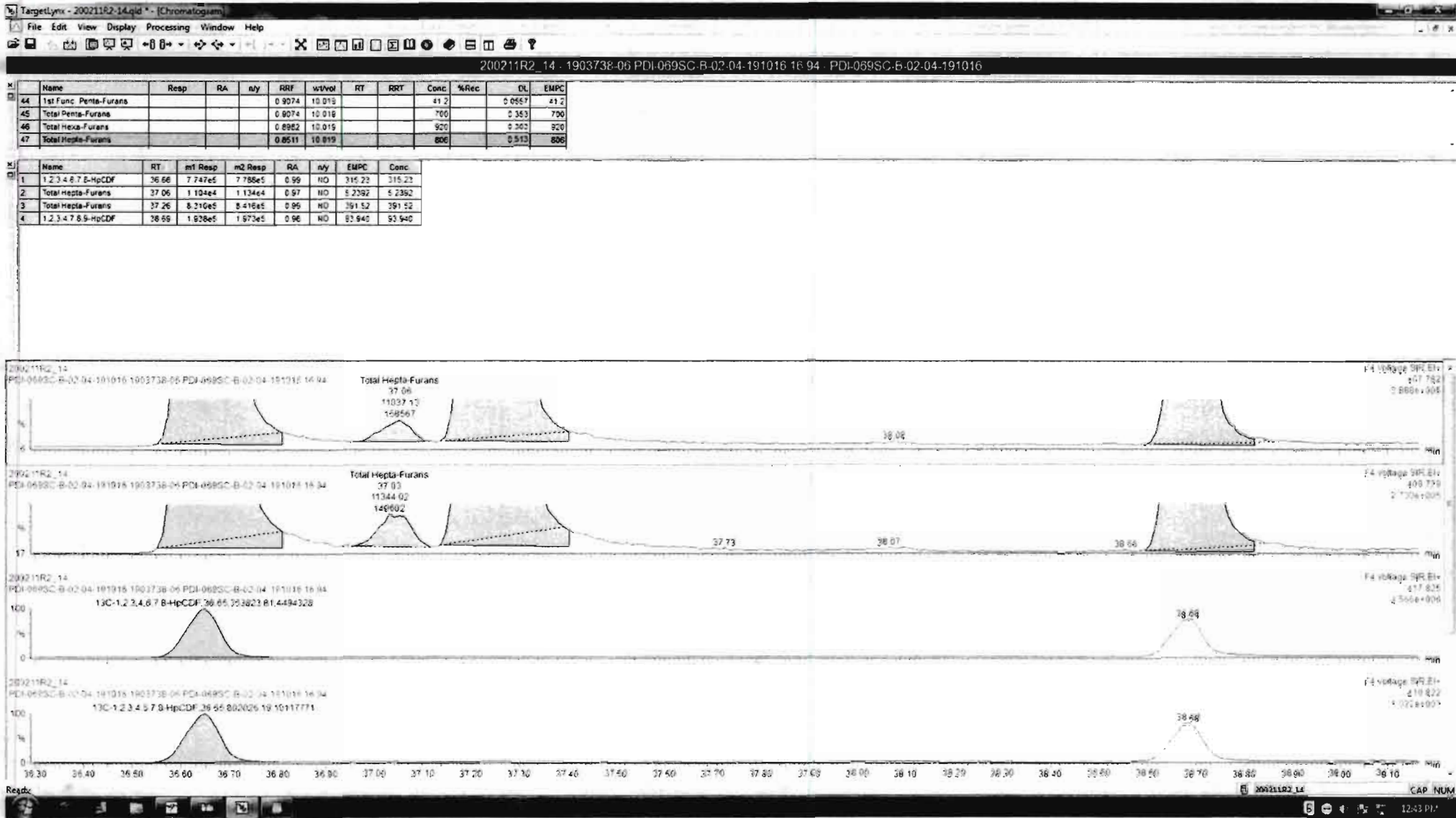
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DPE4

200211R2_14





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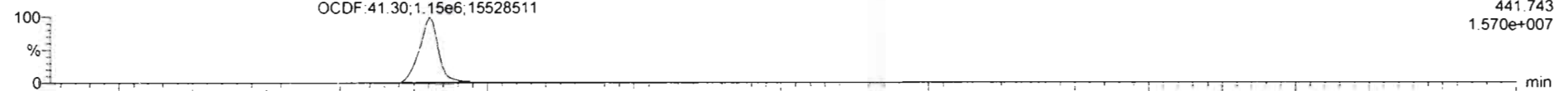
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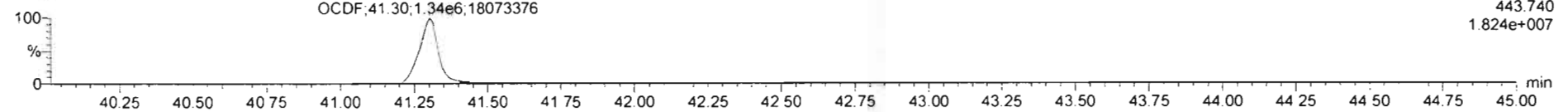
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OCDF

200211R2_14

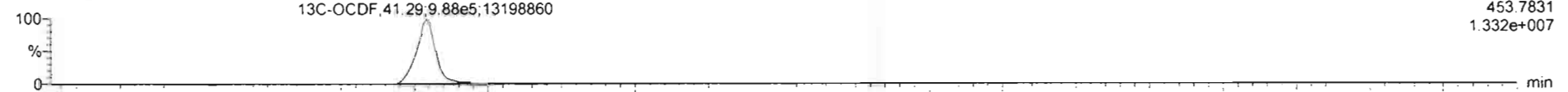


200211R2_14

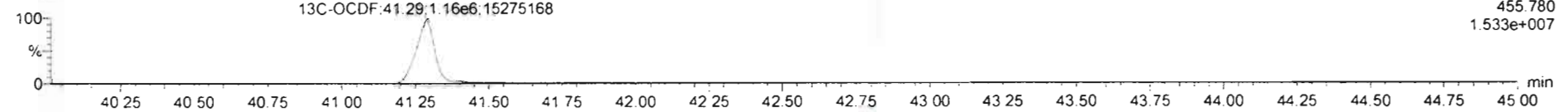


13C-OCDF

200211R2_14

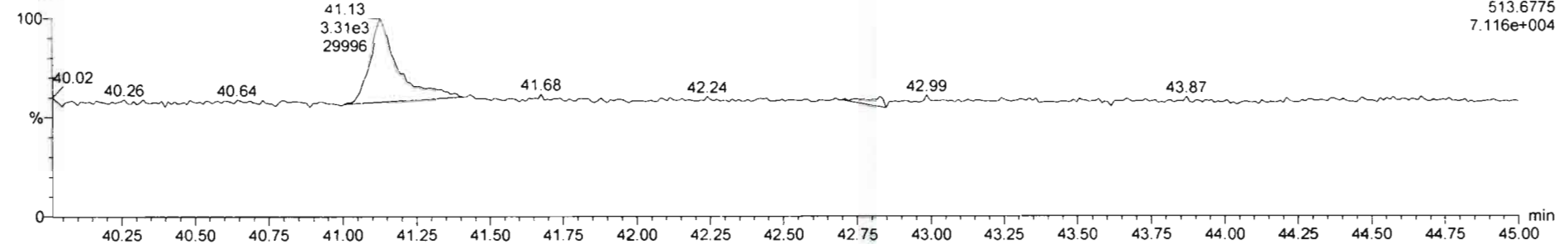


200211R2_14



DPE5

200211R2_14



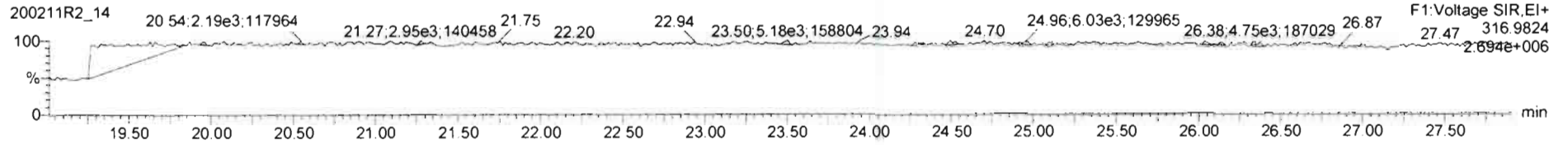
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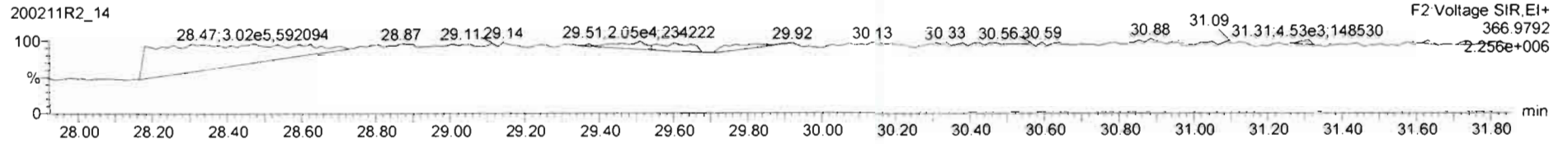
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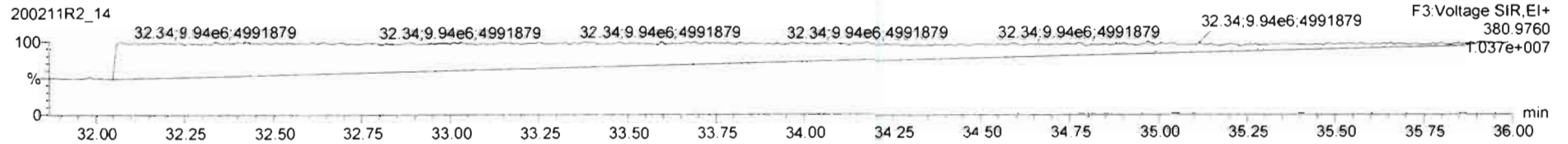
PFK1



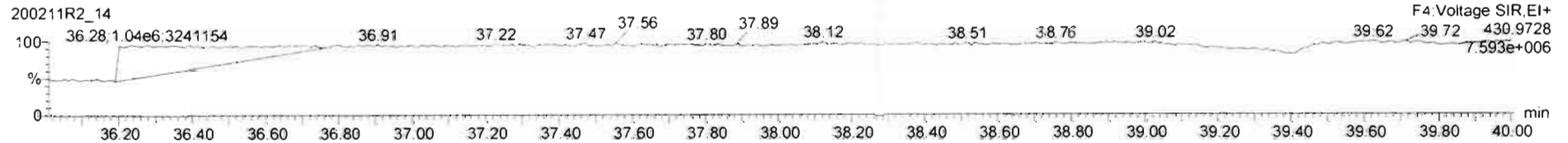
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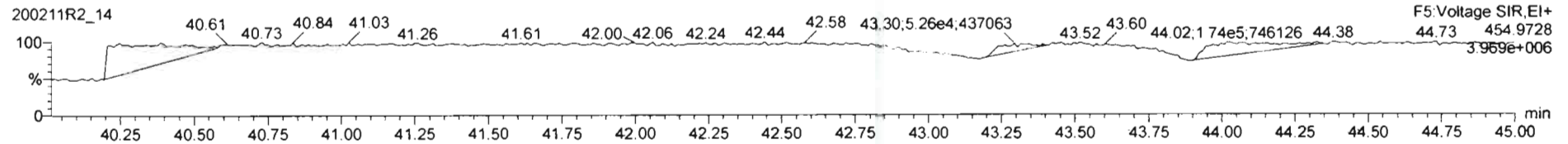
PFK3



PFK4



PFK5



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Printed: Thursday, February 13, 2020 12:48:04 PM Pacific Standard Time

GRB 03/10/2020
CT 03/10/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200212R2_10, Date: 12-Feb-2020, Time: 21:20:52, ID: 1903738-06@2X PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

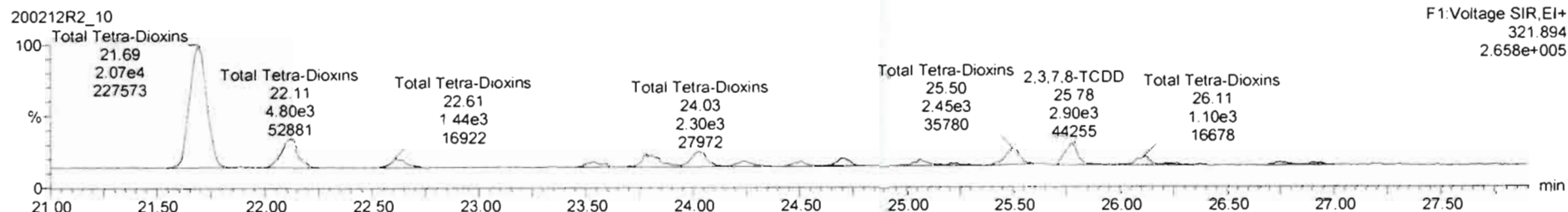
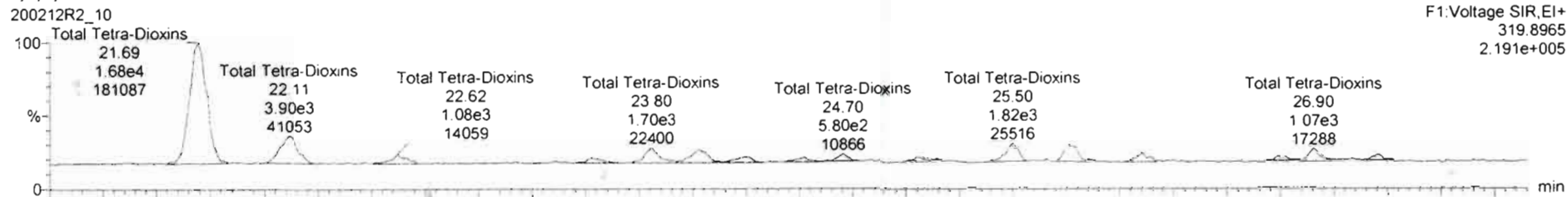
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2	24 13C-OCDD	9.41e5	0.95	NO	0.707	10.019	41.046	41.10	1.218	1.220	243.20	60.9	0.381	
3	35 37Cl-2,3,7,8-TCDD	3.96e5			1.18	10.019	25.769	25.76	1.027	1.027	70.074	87.8	0.0790	
4	36 13C-1,2,3,4-TCDD	9.58e5	0.81	NO	1.00	10.019	25.110	25.09	1.000	1.000	199.62	100	0.309	
5	37 13C-1,2,3,4-TCDF	1.68e6	0.80	NO	1.00	10.019	23.370	23.37	1.000	1.000	199.62	100	0.390	
6	38 13C-1,2,3,4,6,9-HxCDF	1.09e6	0.52	NO	1.00	10.019	33.710	33.70	1.000	1.000	199.62	100	0.429	

Dataset: Untitled

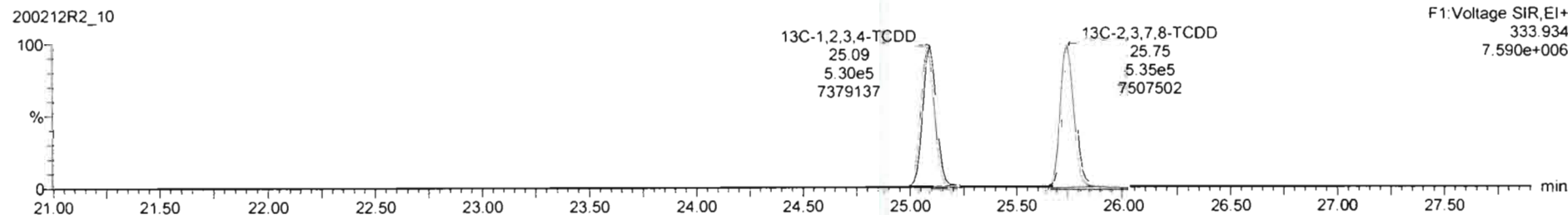
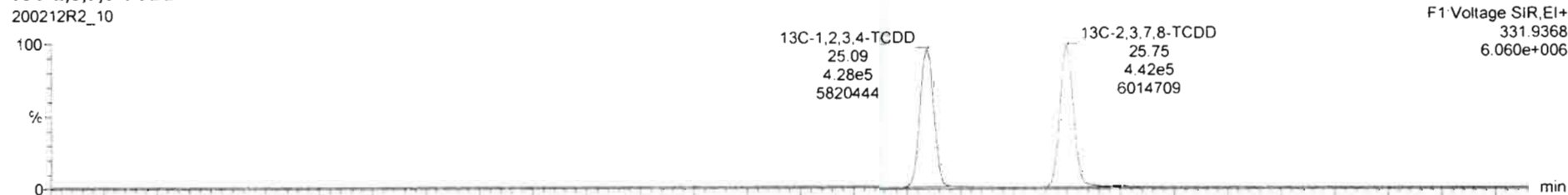
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Printed: Thursday, February 13, 2020 07:30:03 Pacific Standard Time

Name: 200212R2_10, Date: 12-Feb-2020, Time: 21:20:52, ID: 1903738-06@2X PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

2,3,7,8-TCDD



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



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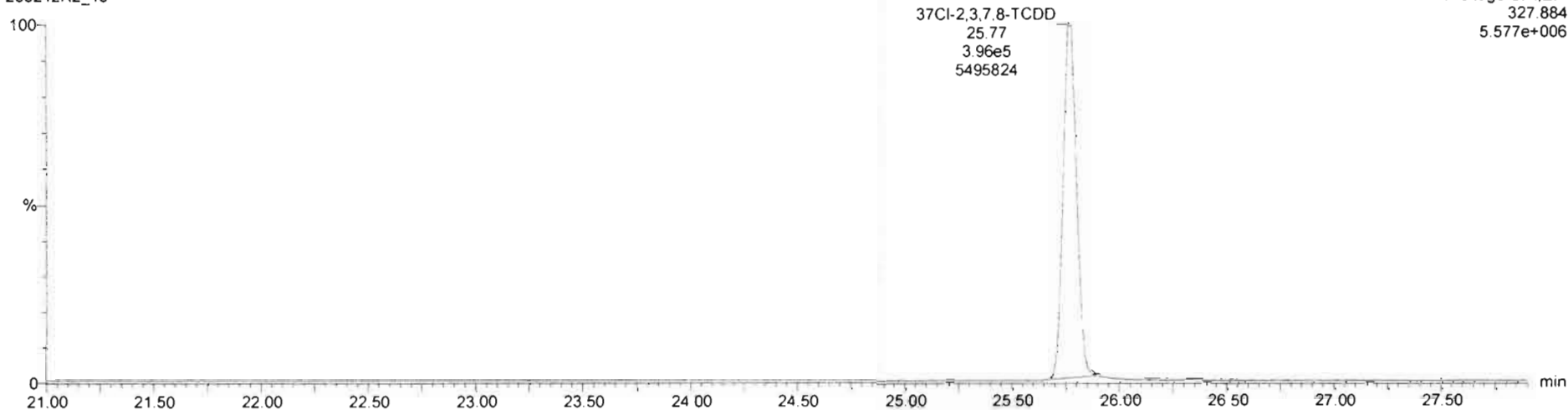
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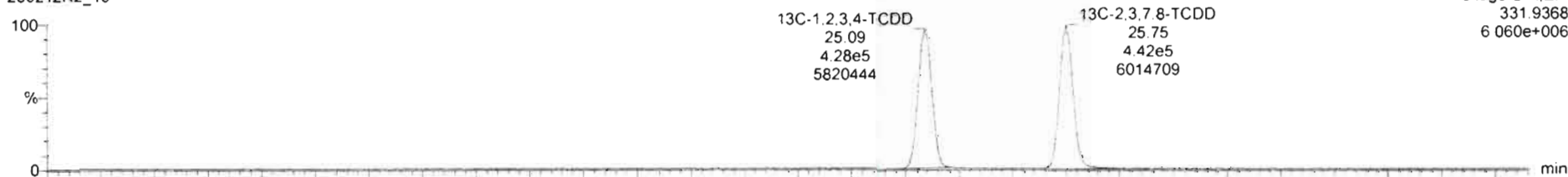
37Cl-2,3,7,8-TCDD

200212R2_10

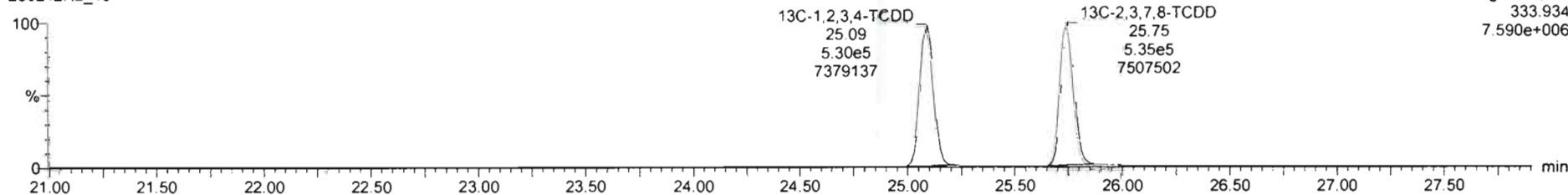


13C-1,2,3,4-TCDD

200212R2_10



200212R2_10



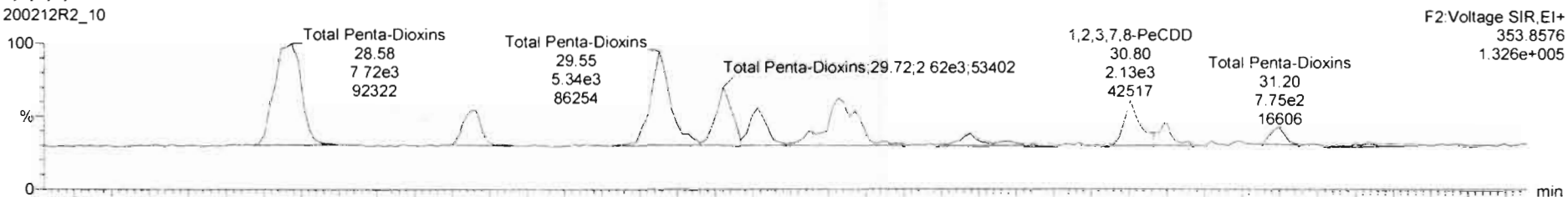
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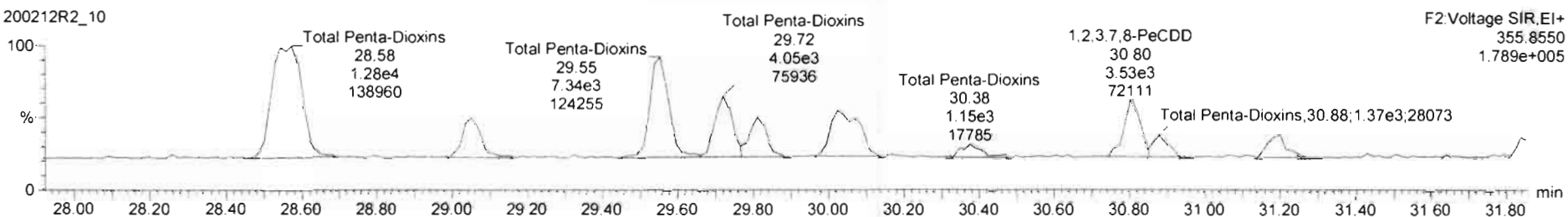
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1,2,3,7,8-PeCDD

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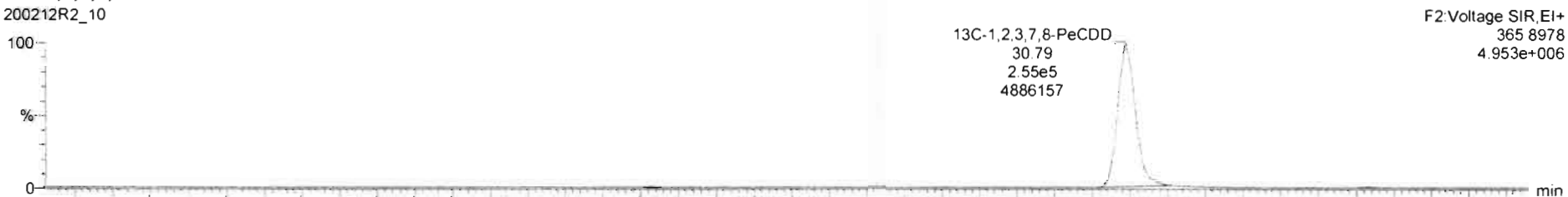


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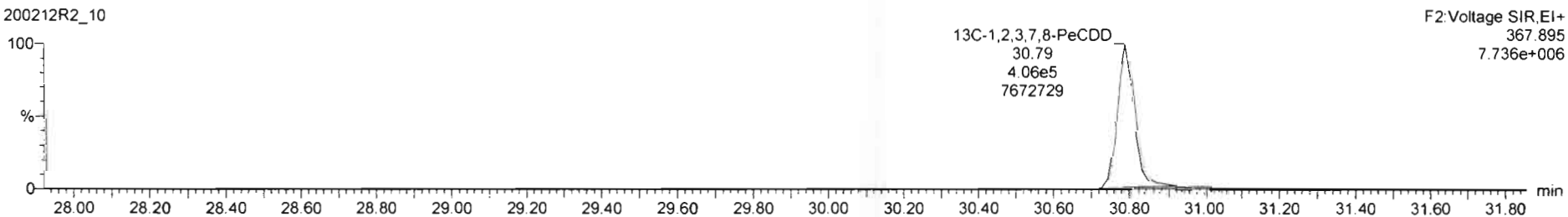


13C-1,2,3,7,8-PeCDD

200212R2_10



200212R2_10

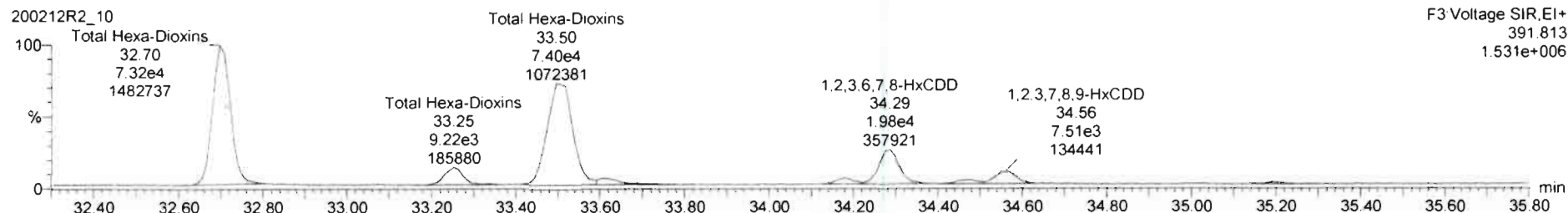
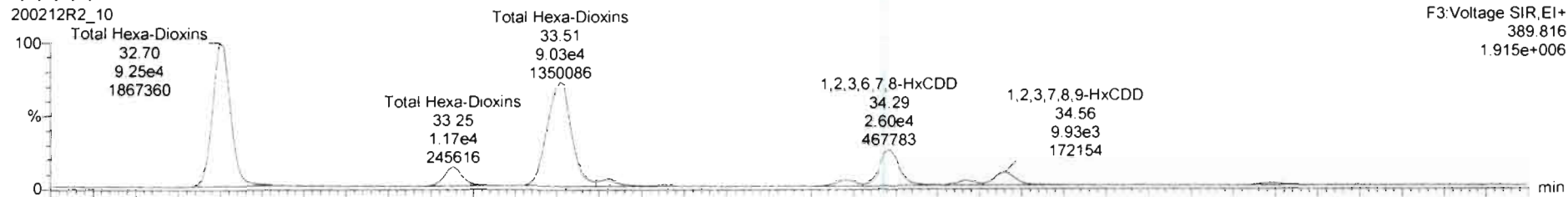


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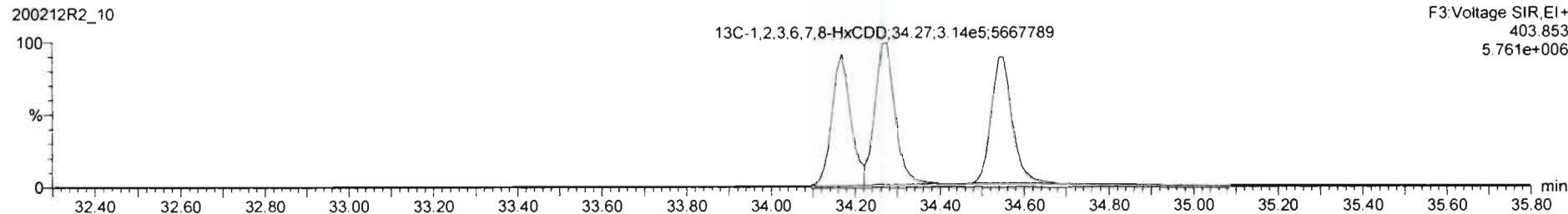
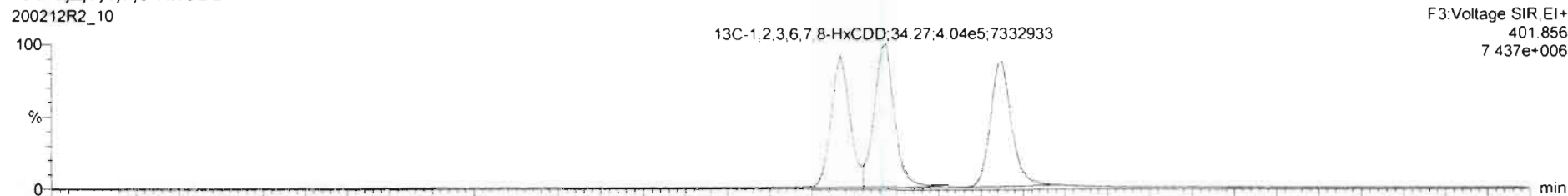
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Name: 200212R2_10, Date: 12-Feb-2020, Time: 21:20:52, ID: 1903738-06@2X PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

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



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



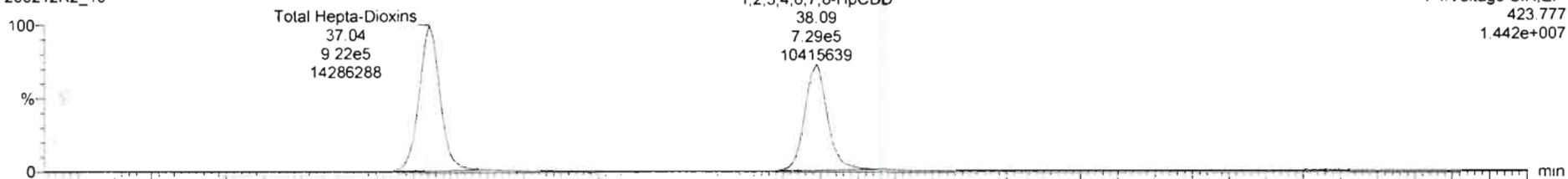
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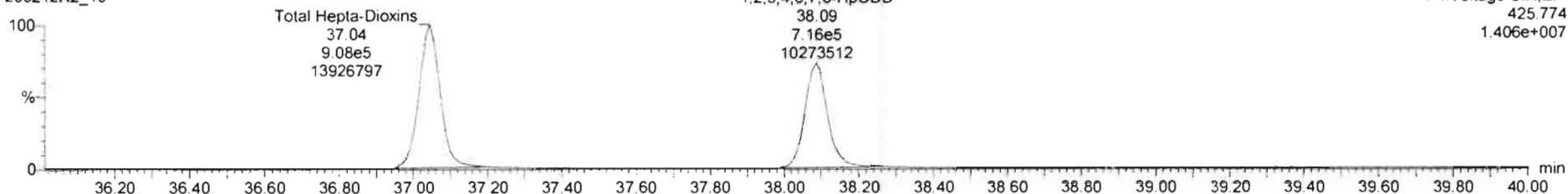
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1,2,3,4,6,7,8-HpCDD

200212R2_10

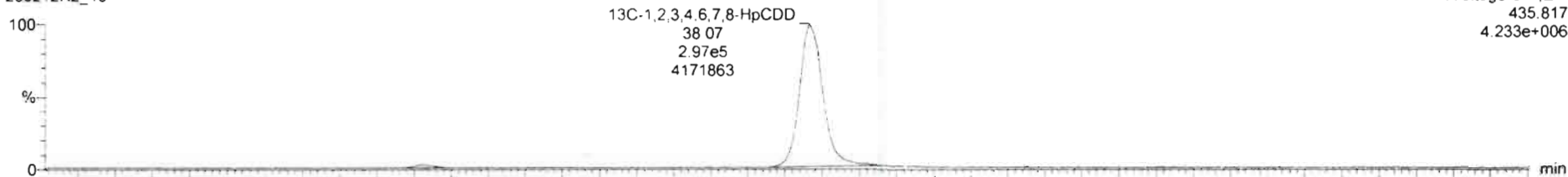


200212R2_10

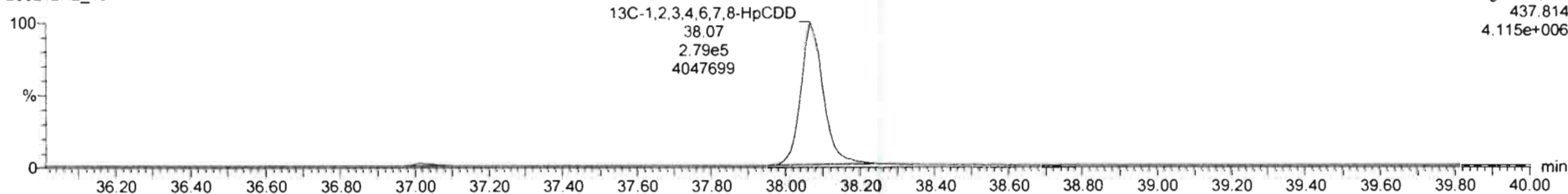


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200212R2_10



200212R2_10



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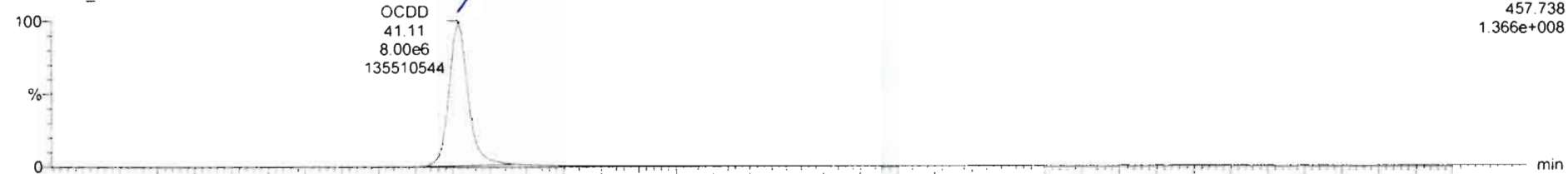
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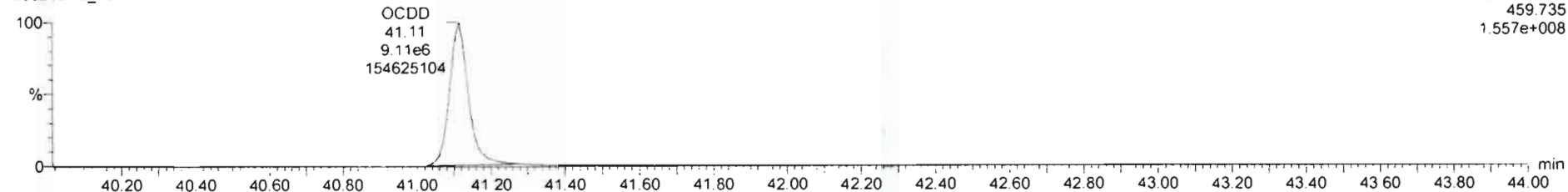
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OCDD

200212R2_10

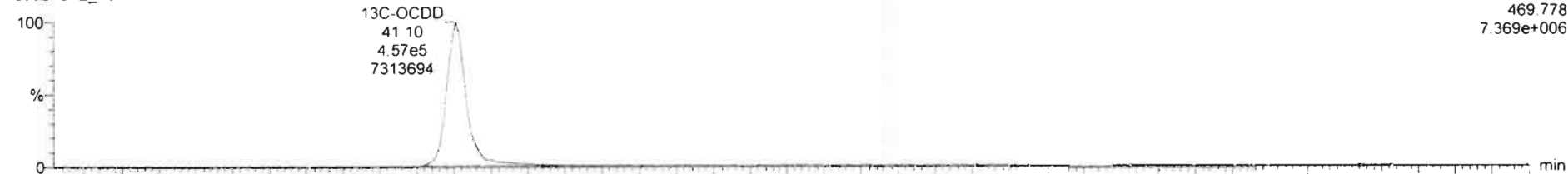


200212R2_10

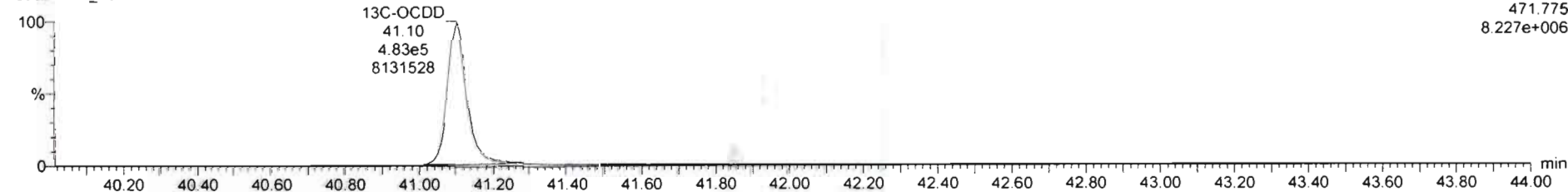


13C-OCDD

200212R2_10



200212R2_10

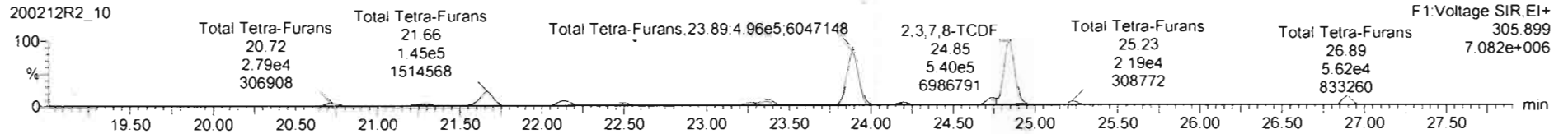
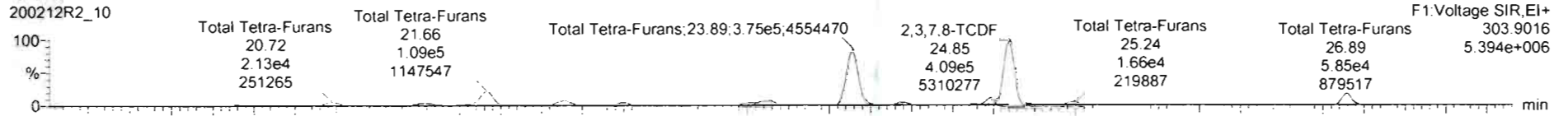


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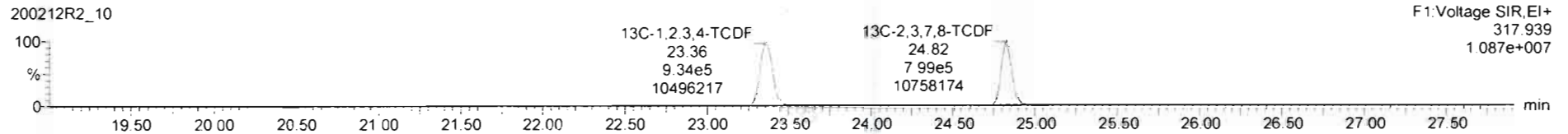
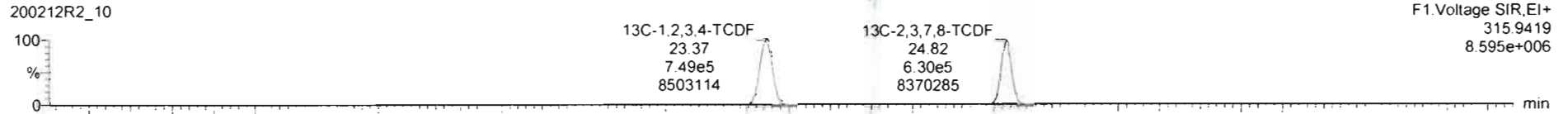
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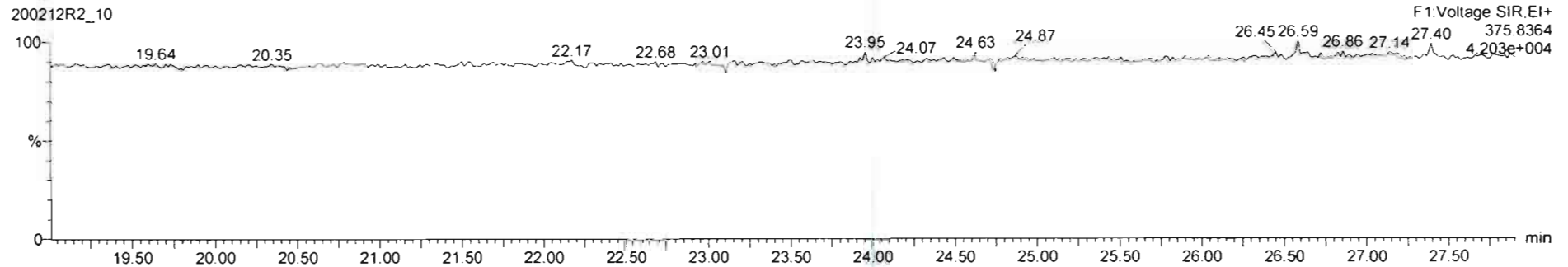
2,3,7,8-TCDF



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



DPE1



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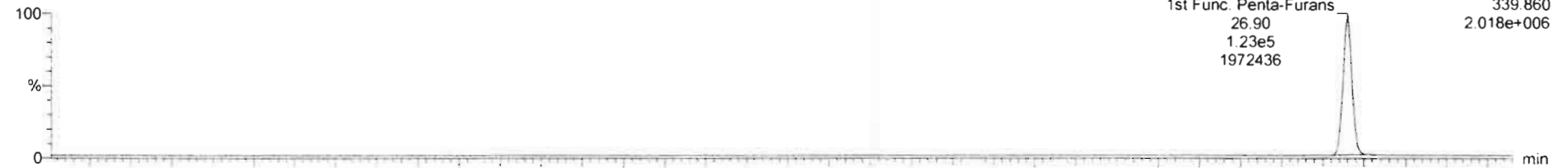
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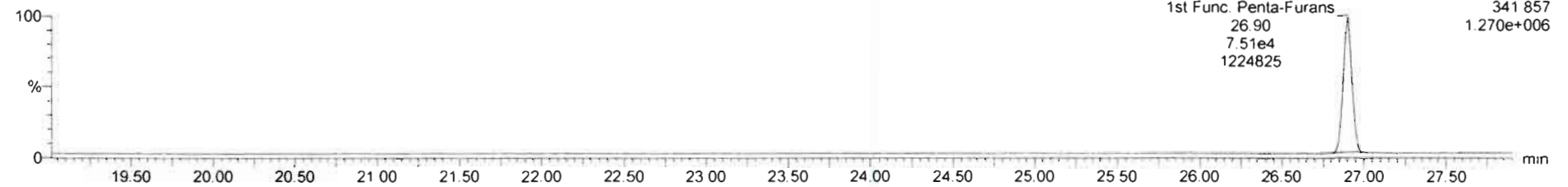
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1st Func. Penta-Furans

200212R2_10

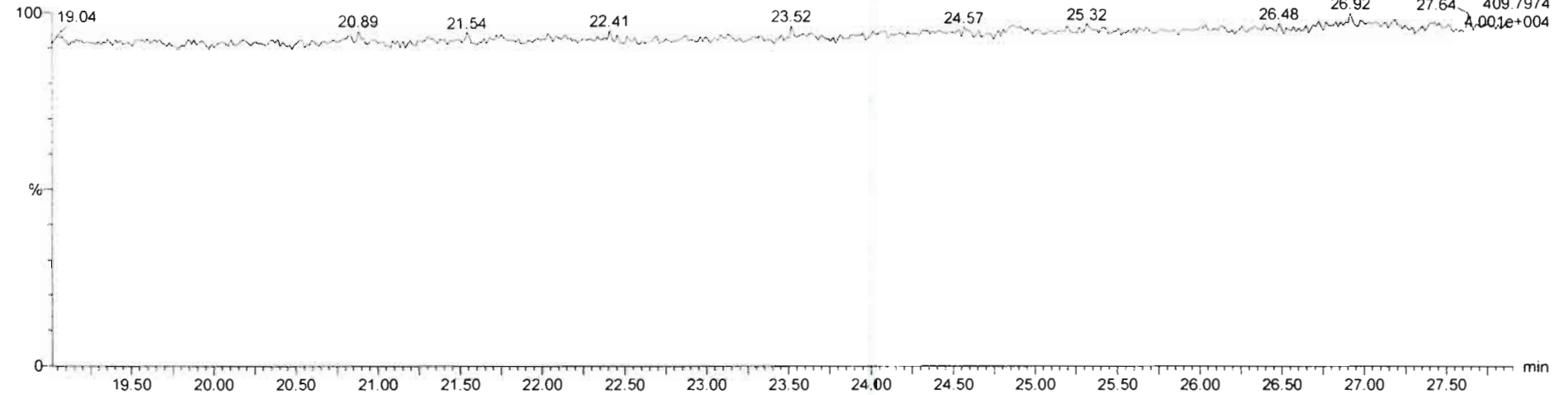


200212R2_10



DPE6

200212R2_10

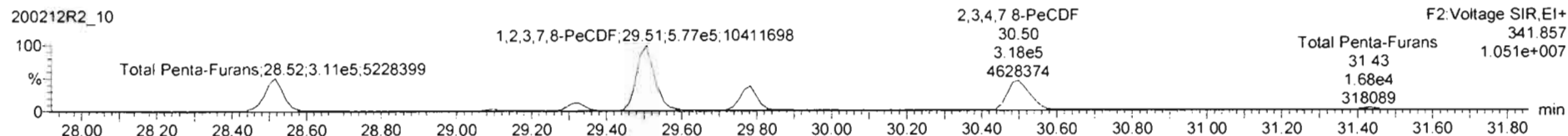
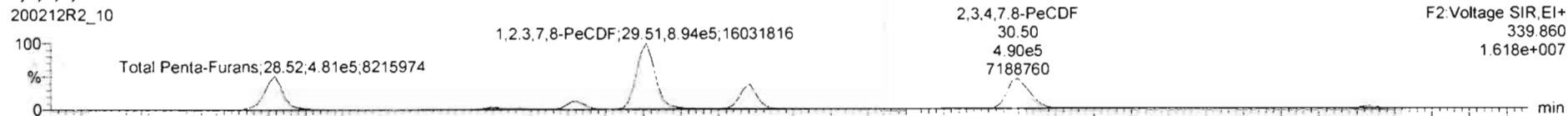


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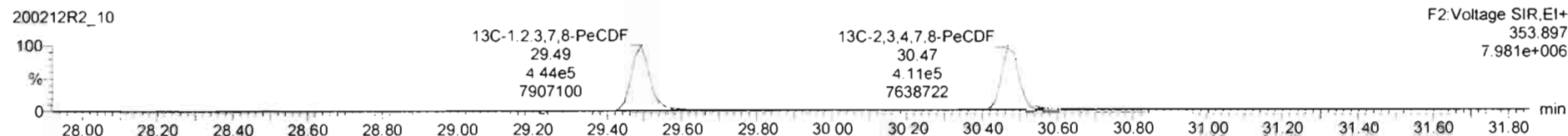
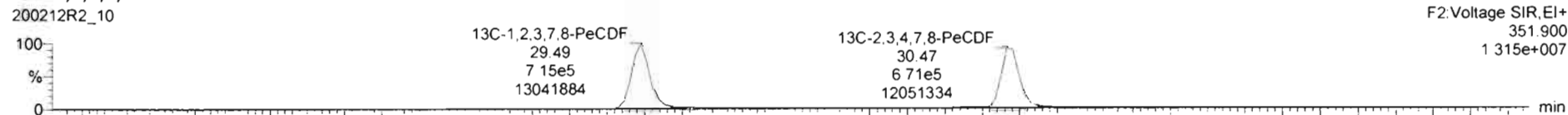
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Name: 200212R2_10, Date: 12-Feb-2020, Time: 21:20:52, ID: 1903738-06@2X PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

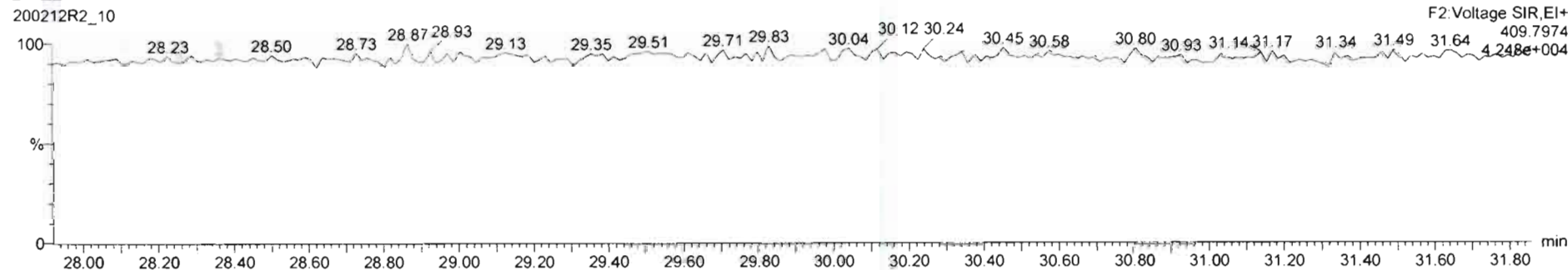
1,2,3,7,8-PeCDF



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



DPE2

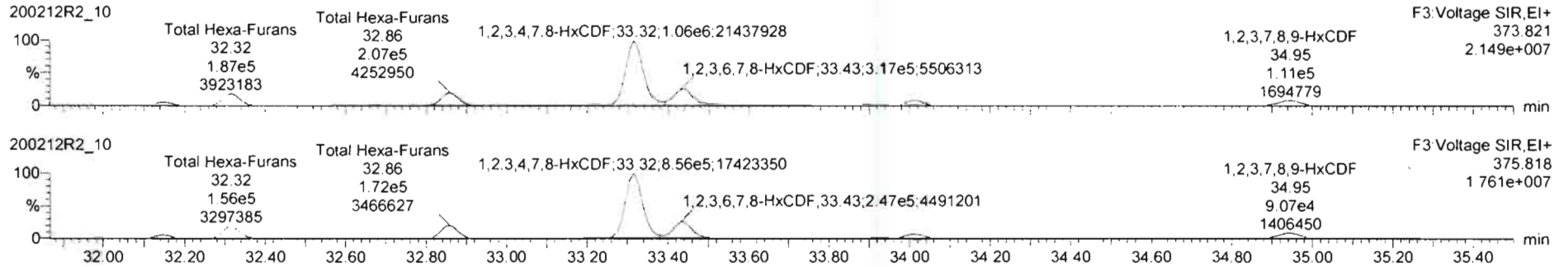


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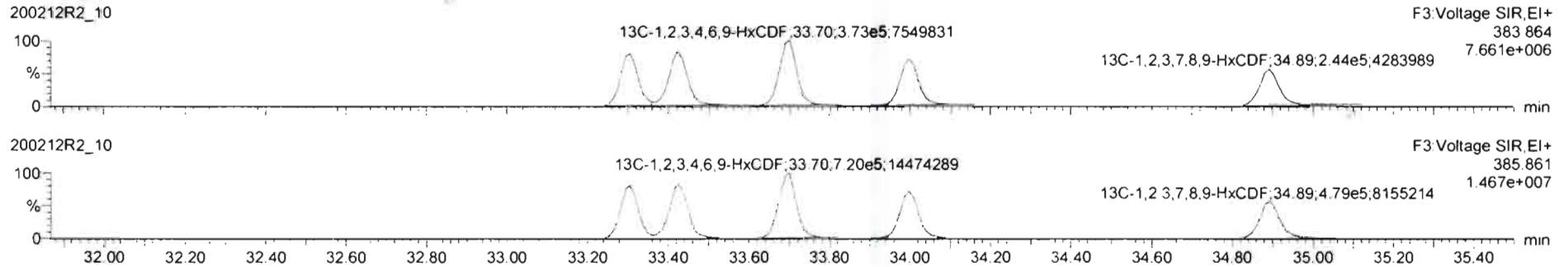
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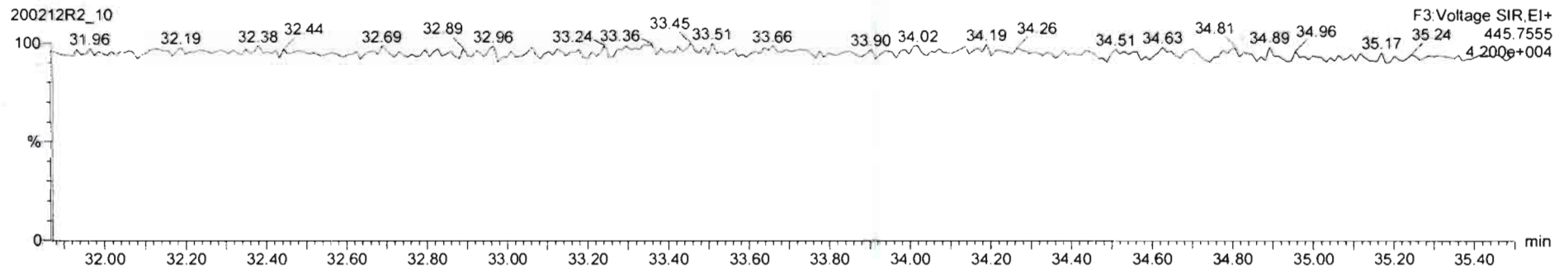
1,2,3,4,7,8-HxCDF



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



DPE3



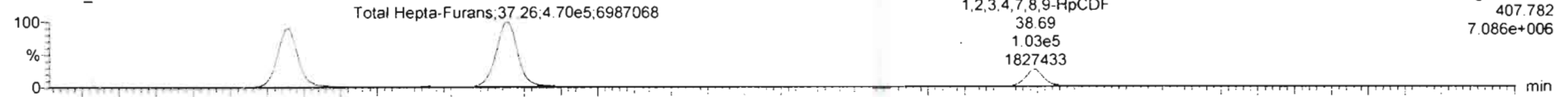
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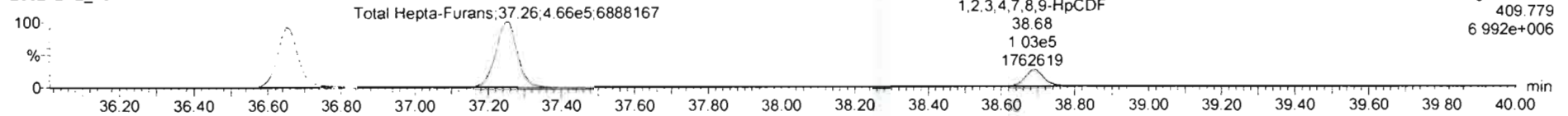
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1,2,3,4,6,7,8-HpCDF

200212R2_10

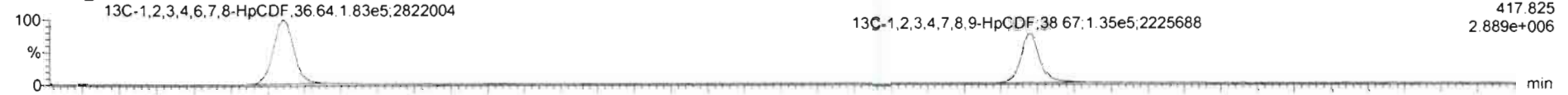


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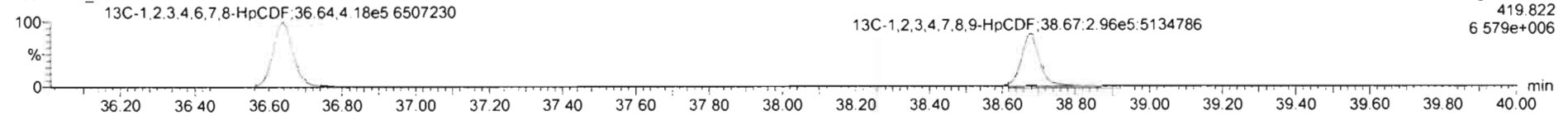


13C-1,2,3,4,6,7,8-HpCDF

200212R2_10

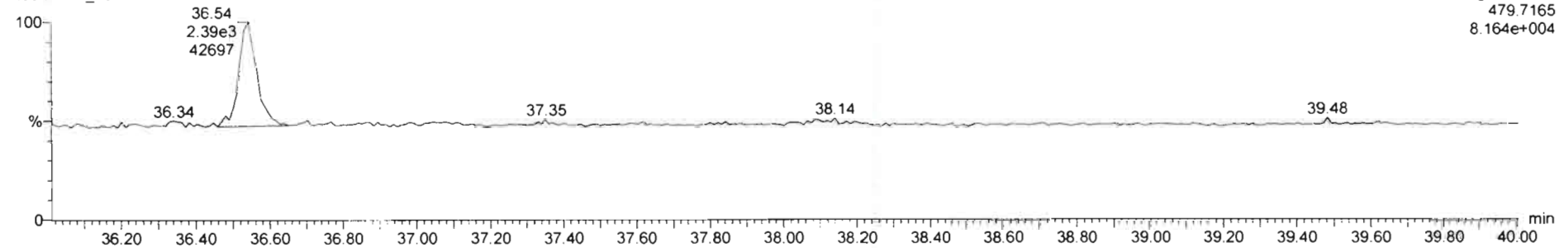


200212R2_10



DPE4

200212R2_10



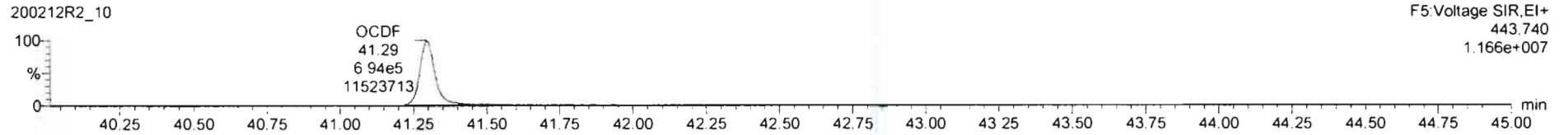
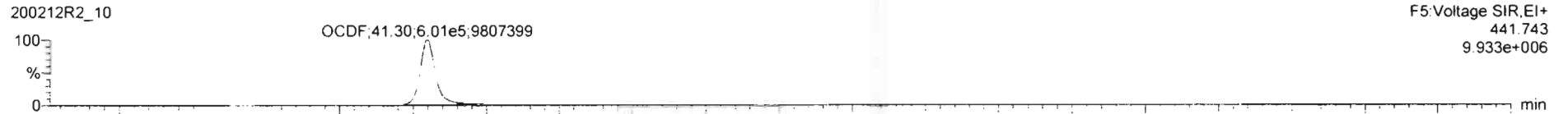
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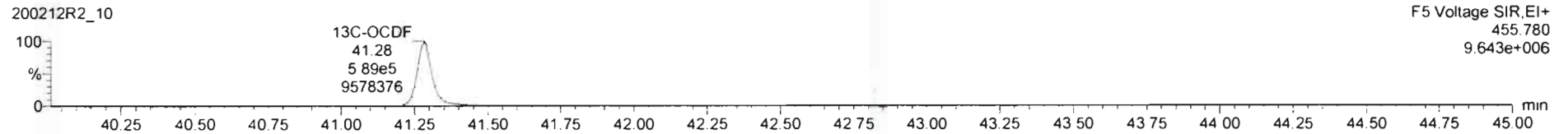
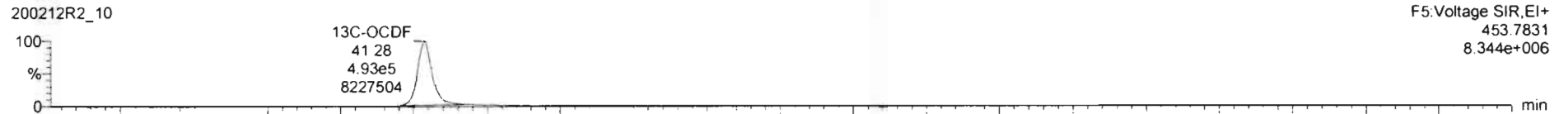
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Name: 200212R2_10, Date: 12-Feb-2020, Time: 21:20:52, ID: 1903738-06@2X PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

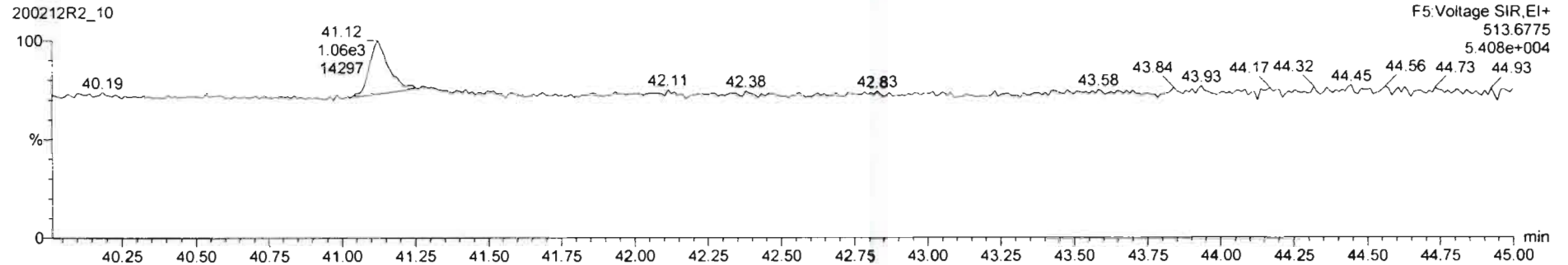
OCDF



13C-OCDF



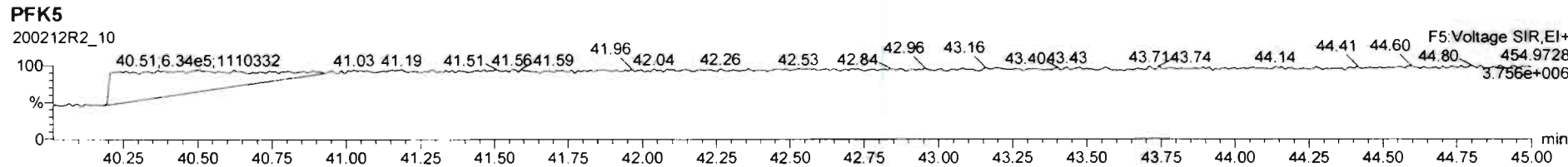
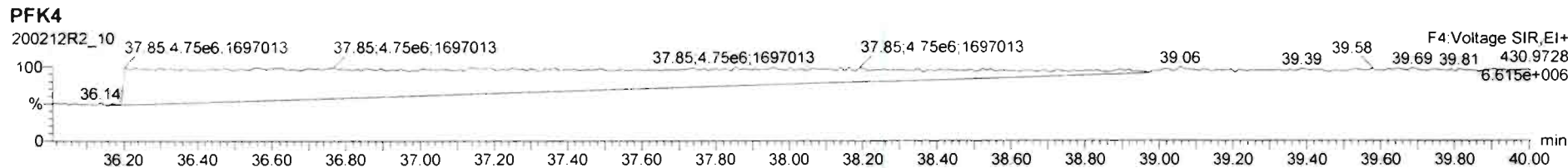
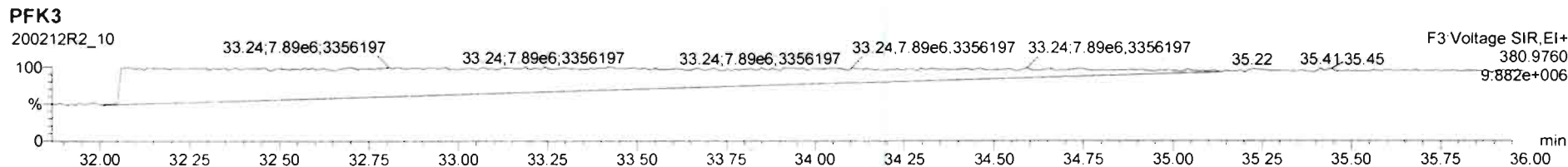
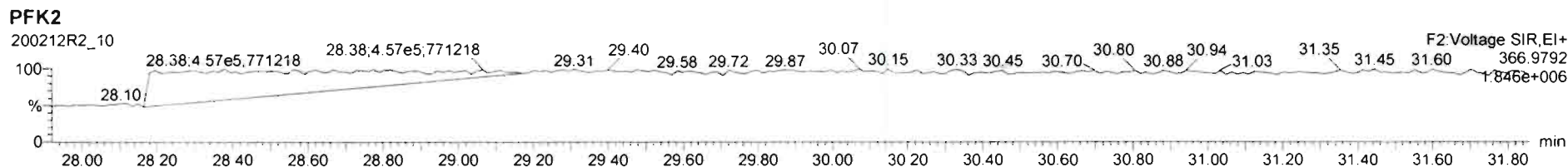
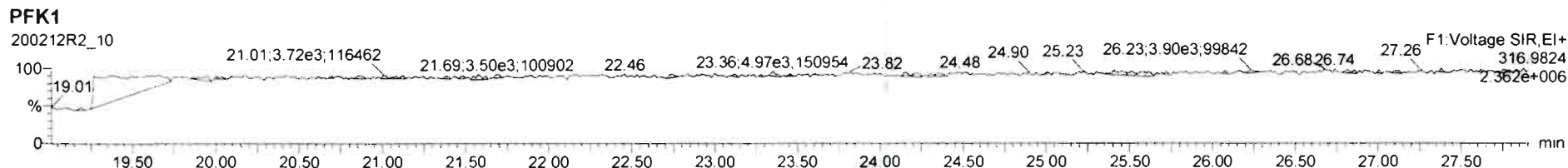
DPE5



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Dataset: U:\VG12.PRO\Results\200211R2\200211R2-15B.qld

Last Altered: Tuesday, March 10, 2020 10:13:36 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 10:14:49 AM Pacific Daylight Time

GPB 03/10/2020

CT 03/10/2020

Method: Untitled 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

* SEE DIL.

Name: 200211R2_15, Date: 12-Feb-2020, Time: 02:58:39, ID: 1903738-07 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

#	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	1.50e4	0.71	NO	0.988	10.018	25.916	25.90	1.001	1.001	1.9922		0.0842	1.99
2	2 1,2,3,7,8-PeCDD	1.78e4	0.60	NO	0.972	10.018	30.872	30.86	1.001	1.000	3.1356		0.144	3.14
3	3 1,2,3,4,7,8-HxCDD	5.12e4	1.30	NO	1.07	10.018	34.221	34.23	1.000	1.001	10.148		0.628	10.1
4	4 1,2,3,6,7,8-HxCDD	5.07e5	1.20	NO	0.921	10.018	34.317	34.33	1.000	1.000	100.81		0.659	101
5	5 1,2,3,7,8,9-HxCDD	1.30e5	1.22	NO	0.918	10.018	34.629	34.60	1.001	1.000	27.396		0.700	27.4
6	6 1,2,3,4,6,7,8-HpCDD	3.89e7	1.02	NO	0.923	10.018	38.141	38.14	1.000	1.000	9359.0*		3.14	9360
7	7 OCDD	1.76e8	0.93	NO	0.975	10.018	41.314	41.33	1.000	1.000	56724 *		2.92	56700
8	8 2,3,7,8-TCDF	5.01e5	0.75	NO	0.802	10.018	24.967	24.97	1.001	1.001	64.160 (58.5)		0.145	64.2
9	9 1,2,3,7,8-PeCDF	7.29e5	1.54	NO	0.907	10.018	29.605	29.60	1.001	1.001	87.324		0.292	87.3
10	10 2,3,4,7,8-PeCDF	2.70e5	1.51	NO	0.952	10.018	30.565	30.56	1.001	1.000	33.539		0.246	33.5
11	11 1,2,3,4,7,8-HxCDF	8.68e5	1.19	NO	0.862	10.018	33.348	33.37	1.000	1.001	161.67		0.222	162
12	12 1,2,3,6,7,8-HxCDF	2.38e5	1.21	NO	0.841	10.018	33.475	33.49	1.000	1.001	42.702		0.224	42.7
13	13 2,3,4,6,7,8-HxCDF	6.77e4	1.17	NO	0.898	10.018	34.074	34.06	1.001	1.001	13.232		0.264	13.2
14	14 1,2,3,7,8,9-HxCDF	3.96e4	1.10	NO	0.858	10.018	34.935	34.98	1.000	1.001	9.1022		0.337	9.10
15	15 1,2,3,4,6,7,8-HpCDF	1.34e6	0.99	NO	0.851	10.018	36.729	36.70	1.001	1.000	359.96		0.813	360
16	16 1,2,3,4,7,8,9-HpCDF	1.45e5	1.00	NO	0.980	10.018	38.737	38.75	1.000	1.000	46.768		1.02	46.8
17	17 OCDF	6.05e6	0.87	NO	0.806	10.018	41.474	41.50	1.000	1.001	2283.5		0.993	2280
18	18 13C-2,3,7,8-TCDD	1.52e6	0.79	NO	1.20	10.018	25.859	25.89	1.026	1.027	123.49	61.9	0.153	
19	19 13C-1,2,3,7,8-PeCDD	1.16e6	0.63	NO	0.967	10.018	30.631	30.85	1.215	1.224	117.24	58.7	0.210	
20	20 13C-1,2,3,4,7,8-HxCDD	9.41e5	1.28	NO	0.874	10.018	34.214	34.21	1.014	1.014	106.88	53.5	0.221	
21	21 13C-1,2,3,6,7,8-HxCDD	1.09e6	1.28	NO	1.05	10.018	34.316	34.32	1.017	1.017	103.46	51.8	0.185	
22	22 13C-1,2,3,7,8,9-HxCDD	1.03e6	1.23	NO	0.974	10.018	34.619	34.59	1.026	1.025	104.78	52.5	0.199	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.98e5	1.06	NO	0.747	10.018	38.196	38.13	1.132	1.130	119.23	59.7	0.297	
24	24 13C-OCDD	1.27e6	0.91	NO	0.707	10.018	41.098	41.31	1.218	1.224	178.52	44.7	0.207	*
25	25 13C-2,3,7,8-TCDF	1.94e6	0.78	NO	1.07	10.018	25.035	24.94	0.993	0.989	115.09	57.6	0.216	
26	26 13C-1,2,3,7,8-PeCDF	1.84e6	1.59	NO	1.00	10.018	29.396	29.58	1.166	1.173	115.60	57.9	0.428	
27	27 13C-2,3,4,7,8-PeCDF	1.69e6	1.58	NO	0.962	10.018	30.624	30.55	1.215	1.212	110.64	55.4	0.446	
28	28 13C-1,2,3,4,7,8-HxCDF	1.24e6	0.51	NO	1.05	10.018	33.337	33.35	0.988	0.988	117.53	58.9	0.288	
29	29 13C-1,2,3,6,7,8-HxCDF	1.32e6	0.51	NO	1.19	10.018	33.438	33.47	0.991	0.992	110.16	55.2	0.254	
30	30 13C-2,3,4,6,7,8-HxCDF	1.14e6	0.51	NO	1.07	10.018	34.049	34.04	1.009	1.009	105.83	53.0	0.283	
31	31 13C-1,2,3,7,8,9-HxCDF	1.01e6	0.53	NO	0.922	10.018	34.957	34.94	1.036	1.035	108.80	54.5	0.327	

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-15B.qld

Last Altered: Tuesday, March 10, 2020 10:13:36 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 10:14:49 AM Pacific Daylight Time

Name: 200211R2_15, Date: 12-Feb-2020, Time: 02:58:39, ID: 1903738-07 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.71e5	0.44	NO	0.767	10.018	36.711	36.69	1.088	1.087	112.64	56.4	0.262	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.31e5	0.45	NO	0.552	10.018	38.736	38.74	1.148	1.148	113.41	56.8	0.364	
34	34 13C-OCDF	1.31e6	0.89	NO	0.789	10.018	41.334	41.47	1.225	1.229	165.12	41.4	0.183	
35	35 37Cl-2,3,7,8-TCDD	6.11e5			1.18	10.018	25.892	25.90	1.027	1.027	50.544	63.3	0.0472	
36	36 13C-1,2,3,4-TCDD	2.05e6	0.81	NO	1.00	10.018	25.110	25.21	1.000	1.000	199.65	100	0.183	
37	37 13C-1,2,3,4-TCDF	3.17e6	0.79	NO	1.00	10.018	23.370	23.49	1.000	1.000	199.65	100	0.230	
38	38 13C-1,2,3,4,6,9-HxCDF	2.01e6	0.51	NO	1.00	10.018	33.710	33.74	1.000	1.000	199.65	100	0.302	
39	39 Total Tetra-Dioxins				0.988	10.018	24.620		0.000		46.887		0.0842	48.5
40	40 Total Penta-Dioxins				0.972	10.018	29.960		0.000		83.705		0.144	83.7
41	41 Total Hexa-Dioxins				0.921	10.018	33.635		0.000		1667.3		0.694	1670
42	42 Total Hepta-Dioxins				0.923	10.018	37.640		0.000		21560		3.14	21600
43	43 Total Tetra-Furans				0.802	10.018	23.610		0.000		184.94		0.145	193
44	44 1st Func. Penta-Furans				0.907	10.018	27.090		0.000		25.417		0.0565	25.4
45	45 Total Penta-Furans				0.907	10.018	29.275		0.000		259.40		0.276	259
46	46 Total Hexa-Furans				0.898	10.018	33.555		0.000		514.91		0.248	515
47	47 Total Hepta-Furans				0.851	10.018	37.835		0.000		2156.1		0.966	2160

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-15B.qld

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_15, Date: 12-Feb-2020, Time: 02:58:39, ID: 1903738-07 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.89	2.443e5	3.006e5	2.226e4	2.871e4	0.78	NO	5.097e4	6.7692	6.7692	0.0842
2	Total Tetra-Dioxins	22.31	6.732e4	9.226e4	8.887e3	1.195e4	0.74	NO	2.083e4	2.7669	2.7669	0.0842
3	Total Tetra-Dioxins	22.80	1.965e5	2.435e5	1.271e4	1.634e4	0.78	NO	2.905e4	3.8588	3.8588	0.0842
4	Total Tetra-Dioxins	23.68	6.062e4	8.223e4	5.102e3	6.490e3	0.79	NO	1.159e4	1.5397	1.5397	0.0842
5	Total Tetra-Dioxins	23.94	1.621e5	2.196e5	1.388e4	1.852e4	0.75	NO	3.240e4	4.3029	4.3029	0.0842
6	Total Tetra-Dioxins	24.00	8.964e4	1.134e5	5.485e3	6.719e3	0.82	NO	0.000e0	0.00000	1.6209	0.0842
7	Total Tetra-Dioxins	24.15	1.683e5	2.181e5	1.247e4	1.730e4	0.72	NO	2.977e4	3.9535	3.9535	0.0842
8	Total Tetra-Dioxins	24.36	8.529e4	1.128e5	6.819e3	8.937e3	0.76	NO	1.576e4	2.0927	2.0927	0.0842
9	Total Tetra-Dioxins	24.64	7.310e4	9.238e4	5.978e3	7.689e3	0.78	NO	1.367e4	1.8152	1.8152	0.0842
10	Total Tetra-Dioxins	24.82	1.537e5	2.169e5	1.135e4	1.527e4	0.74	NO	2.662e4	3.5357	3.5357	0.0842
11	Total Tetra-Dioxins	25.18	1.570e5	2.090e5	1.180e4	1.506e4	0.78	NO	2.686e4	3.5679	3.5679	0.0842
12	Total Tetra-Dioxins	25.33	4.323e4	5.187e4	2.915e3	3.730e3	0.78	NO	6.645e3	0.88254	0.88254	0.0842
13	Total Tetra-Dioxins	25.60	9.090e4	1.170e5	8.908e3	1.131e4	0.79	NO	2.022e4	2.6855	2.6855	0.0842
14	Total Tetra-Dioxins	25.75	5.530e4	6.473e4	4.383e3	5.434e3	0.81	NO	9.816e3	1.3038	1.3038	0.0842
15	2,3,7,8-TCDD	25.90	8.964e4	1.078e5	6.216e3	8.783e3	0.71	NO	1.500e4	1.9922	1.9922	0.0842
16	Total Tetra-Dioxins	26.24	1.600e5	2.013e5	1.096e4	1.372e4	0.80	NO	2.467e4	3.2773	3.2773	0.0842
17	Total Tetra-Dioxins	26.36	4.620e4	5.981e4	2.949e3	3.415e3	0.86	NO	6.364e3	0.84525	0.84525	0.0842
18	Total Tetra-Dioxins	26.84	7.669e4	9.997e4	5.539e3	7.244e3	0.76	NO	1.278e4	1.6978	1.6978	0.0842

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Name: 200211R2_15, Date: 12-Feb-2020, Time: 02:58:39, ID: 1903738-07 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.65	6.312e5	9.400e5	4.652e4	7.266e4	0.64	NO	1.192e5	21.008	21.008	0.144
2	Total Penta-Dioxins	29.13	5.294e5	8.319e5	2.810e4	4.662e4	0.60	NO	7.472e4	13.172	13.172	0.144
3	Total Penta-Dioxins	29.65	2.508e5	3.945e5	1.513e4	2.652e4	0.57	NO	4.165e4	7.3421	7.3421	0.144
4	Total Penta-Dioxins	29.80	2.562e5	4.330e5	1.325e4	2.206e4	0.60	NO	3.531e4	6.2247	6.2247	0.144
5	Total Penta-Dioxins	29.90	1.653e5	2.564e5	9.277e3	1.546e4	0.60	NO	2.473e4	4.3600	4.3600	0.144
6	Total Penta-Dioxins	30.13	5.640e5	9.074e5	4.186e4	6.628e4	0.63	NO	1.081e5	19.061	19.061	0.144
7	Total Penta-Dioxins	30.44	9.952e4	1.832e5	5.958e3	1.060e4	0.56	NO	1.656e4	2.9189	2.9189	0.144
8	1,2,3,7,8-PeCDD	30.86	1.339e5	2.114e5	6.665e3	1.112e4	0.60	NO	1.779e4	3.1356	3.1356	0.144
9	Total Penta-Dioxins	30.94	1.543e5	2.828e5	8.054e3	1.398e4	0.58	NO	2.204e4	3.8848	3.8848	0.144
10	Total Penta-Dioxins	31.25	1.175e5	1.807e5	5.688e3	9.047e3	0.63	NO	1.473e4	2.5973	2.5973	0.144

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.75	3.622e7	2.925e7	1.902e6	1.551e6	1.23	NO	3.453e6	733.58	733.58	0.694
2	Total Hexa-Dioxins	33.29	3.410e6	2.836e6	1.890e5	1.544e5	1.22	NO	3.433e5	72.936	72.936	0.694
3	Total Hexa-Dioxins	33.55	2.187e7	1.788e7	1.549e6	1.268e6	1.22	NO	2.816e6	598.32	598.32	0.694
4	Total Hexa-Dioxins	33.67	3.592e6	2.958e6	2.231e5	1.812e5	1.23	NO	4.043e5	85.895	85.895	0.694
5	1,2,3,4,7,8-HxCDD	34.23	5.033e5	4.068e5	2.900e4	2.223e4	1.30	NO	5.123e4	10.148	10.148	0.628
6	1,2,3,6,7,8-HxCDD	34.33	4.225e6	3.481e6	2.761e5	2.311e5	1.20	NO	5.072e5	100.81	100.81	0.659
7	Total Hexa-Dioxins	34.52	1.523e6	1.213e6	9.961e4	8.023e4	1.24	NO	1.798e5	38.207	38.207	0.694
8	1,2,3,7,8,9-HxCDD	34.60	1.074e6	9.020e5	7.129e4	5.835e4	1.22	NO	1.296e5	27.396	27.396	0.700

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.10	2.756e8	2.728e8	2.549e7	2.516e7	1.01	NO	5.065e7	12201*	12201	3.14
2	1,2,3,4,6,7,8-HpCDD	38.14	1.906e8	1.877e8	1.959e7	1.926e7	1.02	NO	3.885e7	9359.0	9359.0	3.14

*SEE DIL.

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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	19.79	1.566e4	2.080e4	1.569e3	2.030e3	0.77	NO	3.599e3	0.46066	0.46066	0.145
2	Total Tetra-Furans	20.30	5.924e4	7.803e4	4.940e3	6.714e3	0.74	NO	1.165e4	1.4917	1.4917	0.145
3	Total Tetra-Furans	20.90	2.440e5	3.206e5	2.295e4	3.089e4	0.74	NO	5.383e4	6.8907	6.8907	0.145
4	Total Tetra-Furans	21.47	7.628e4	1.029e5	1.112e4	1.515e4	0.73	NO	2.627e4	3.3620	3.3620	0.145
5	Total Tetra-Furans	21.86	3.781e5	5.076e5	3.990e4	5.514e4	0.72	NO	9.504e4	12.165	12.165	0.145
6	Total Tetra-Furans	22.32	1.581e5	2.011e5	1.889e4	2.522e4	0.75	NO	4.410e4	5.6455	5.6455	0.145
7	Total Tetra-Furans	22.52	1.412e4	2.203e4	1.616e3	2.418e3	0.67	NO	4.034e3	0.51640	0.51640	0.145
8	Total Tetra-Furans	22.74	1.380e5	1.840e5	6.529e3	8.817e3	0.74	NO	1.535e4	1.9643	1.9643	0.145
9	Total Tetra-Furans	23.12	1.450e4	1.903e4	1.368e3	1.842e3	0.74	NO	3.210e3	0.41093	0.41093	0.145
10	Total Tetra-Furans	23.24	3.746e4	3.822e4	2.278e3	2.703e3	0.84	NO	4.981e3	0.63758	0.63758	0.145
11	Total Tetra-Furans	23.39	1.579e5	2.241e5	1.316e4	1.775e4	0.74	NO	3.091e4	3.9564	3.9564	0.145
12	Total Tetra-Furans	23.49	2.235e5	3.068e5	2.246e4	2.983e4	0.75	NO	5.230e4	6.6939	6.6939	0.145
13	Total Tetra-Furans	24.03	2.728e6	3.621e6	2.065e5	2.758e5	0.75	NO	4.823e5	61.738	61.738	0.145
14	Total Tetra-Furans	24.15	2.643e4	3.160e4	1.448e3	1.750e3	0.83	NO	3.198e3	0.40932	0.40932	0.145
15	Total Tetra-Furans	24.30	9.244e4	1.244e5	8.409e3	1.084e4	0.78	NO	1.925e4	2.4638	2.4638	0.145
16	Total Tetra-Furans	24.55	1.512e4	2.307e4	1.670e3	2.786e3	0.60	YES	0.000e0	0.00000	0.49128	0.145
17	Total Tetra-Furans	24.75	5.015e4	7.002e4	3.245e3	4.947e3	0.66	NO	8.193e3	1.0486	1.0486	0.145
18	Total Tetra-Furans	24.87	3.239e5	4.264e5	1.980e4	2.782e4	0.71	NO	4.762e4	6.0956	6.0956	0.145
19	2,3,7,8-TCDF	24.97	2.623e6	3.517e6	2.155e5	2.857e5	0.75	NO	5.012e5	64.160	64.160	0.145
20	Total Tetra-Furans	25.11	3.218e4	5.341e4	2.696e3	4.076e3	0.66	NO	6.772e3	0.86686	0.86686	0.145
21	Total Tetra-Furans	25.36	1.690e5	2.302e5	1.200e4	1.634e4	0.73	NO	2.834e4	3.6272	3.6272	0.145
22	Total Tetra-Furans	25.59	1.810e4	2.252e4	1.126e3	1.490e3	0.76	NO	2.617e3	0.33496	0.33496	0.145
23	Total Tetra-Furans	27.01	3.585e5	3.985e5	3.202e4	3.272e4	0.98	YES	0.000e0	0.00000	7.4142	0.145

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.05	1.854e6	1.173e6	1.247e5	7.888e4	1.58	NO	2.036e5	25.417	25.417	0.0565

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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	28.45	1.868e5	1.099e5	1.098e4	7.283e3	1.51	NO	1.826e4	2.2800	2.2800	0.276
2	Total Penta-Furans	28.59	4.007e6	2.619e6	2.528e5	1.653e5	1.53	NO	4.181e5	52.202	52.202	0.276
3	Total Penta-Furans	28.67	2.335e5	1.372e5	7.475e3	4.864e3	1.54	NO	1.234e4	1.5405	1.5405	0.276
4	Total Penta-Furans	29.19	3.786e5	2.427e5	2.413e4	1.633e4	1.48	NO	4.046e4	5.0514	5.0514	0.276
5	Total Penta-Furans	29.25	1.627e5	1.226e5	6.913e3	4.792e3	1.44	NO	1.171e4	1.4614	1.4614	0.276
6	Total Penta-Furans	29.40	1.201e6	8.176e5	6.312e4	4.116e4	1.53	NO	1.043e5	13.019	13.019	0.276
7	1,2,3,7,8-PeCDF	29.60	7.396e6	4.773e6	4.416e5	2.874e5	1.54	NO	7.290e5	87.324	87.324	0.292
8	Total Penta-Furans	29.67	2.150e5	1.103e5	6.390e3	3.668e3	1.74	NO	1.006e4	1.2557	1.2557	0.276
9	Total Penta-Furans	29.86	3.543e6	2.319e6	1.715e5	1.137e5	1.51	NO	2.852e5	35.605	35.605	0.276
10	Total Penta-Furans	30.33	1.506e4	1.475e4	8.114e2	5.979e2	1.36	NO	1.409e3	0.17595	0.17595	0.276
11	Total Penta-Furans	30.45	7.525e4	5.698e4	3.520e3	2.388e3	1.47	NO	5.908e3	0.73753	0.73753	0.276
12	2,3,4,7,8-PeCDF	30.56	4.070e6	2.626e6	1.624e5	1.074e5	1.51	NO	2.698e5	33.539	33.539	0.246
13	Total Penta-Furans	30.58	3.652e6	2.359e6	1.091e5	6.984e4	1.56	NO	1.790e5	22.346	22.346	0.276
14	Total Penta-Furans	31.49	2.561e5	1.612e5	1.389e4	9.073e3	1.53	NO	2.296e4	2.8666	2.8666	0.276

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.21	4.783e5	4.042e5	2.604e4	2.191e4	1.19	NO	4.795e4	9.0468	9.0468	0.248
2	Total Hexa-Furans	32.37	2.681e6	2.309e6	1.298e5	1.093e5	1.19	NO	2.390e5	45.102	45.102	0.248
3	Total Hexa-Furans	32.73	5.858e4	4.574e4	3.447e3	2.941e3	1.17	NO	6.389e3	1.2054	1.2054	0.248
4	Total Hexa-Furans	32.91	1.187e7	1.016e7	6.279e5	5.291e5	1.19	NO	1.157e6	218.29	218.29	0.248
5	Total Hexa-Furans	33.26	1.032e5	8.898e4	5.382e3	4.259e3	1.26	NO	9.642e3	1.8192	1.8192	0.248
6	1,2,3,4,7,8-HxCDF	33.37	8.582e6	7.274e6	4.710e5	3.968e5	1.19	NO	8.678e5	161.67	161.67	0.222
7	1,2,3,6,7,8-HxCDF	33.49	2.117e6	1.788e6	1.300e5	1.077e5	1.21	NO	2.377e5	42.702	42.702	0.224
8	Total Hexa-Furans	33.75	4.911e4	4.357e4	2.629e3	2.128e3	1.24	NO	4.757e3	0.89758	0.89758	0.248
9	2,3,4,6,7,8-HxCDF	34.06	6.046e5	5.190e5	3.651e4	3.119e4	1.17	NO	6.770e4	13.232	13.232	0.264
10	1,2,3,7,8,9-HxCDF	34.98	7.252e5	6.235e5	2.068e4	1.888e4	1.10	NO	3.955e4	9.1022	9.1022	0.337
11	Total Hexa-Furans	34.99	8.071e5	6.915e5	3.400e4	2.878e4	1.18	NO	6.277e4	11.844	11.844	0.248

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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	36.70	7.837e6	7.880e6	6.657e5	6.707e5	0.99	NO	1.336e6	359.96	359.96	0.813
2	Total Hepta-Furans	37.11	1.892e5	1.848e5	1.603e4	1.589e4	1.01	NO	3.192e4	9.9683	9.9683	0.966
3	Total Hepta-Furans	37.30	2.933e7	2.951e7	2.770e6	2.799e6	0.99	NO	5.569e6	1739.4	1739.4	0.966
4	1,2,3,4,7,8,9-HpCDF	38.75	8.061e5	7.929e5	7.255e4	7.236e4	1.00	NO	1.449e5	46.768	46.768	1.02

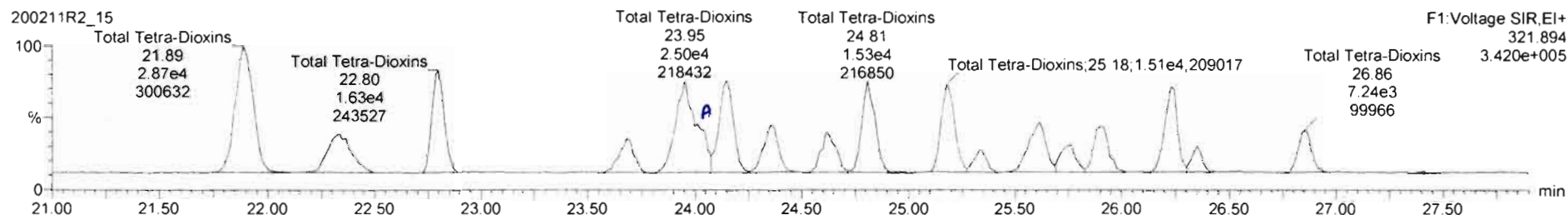
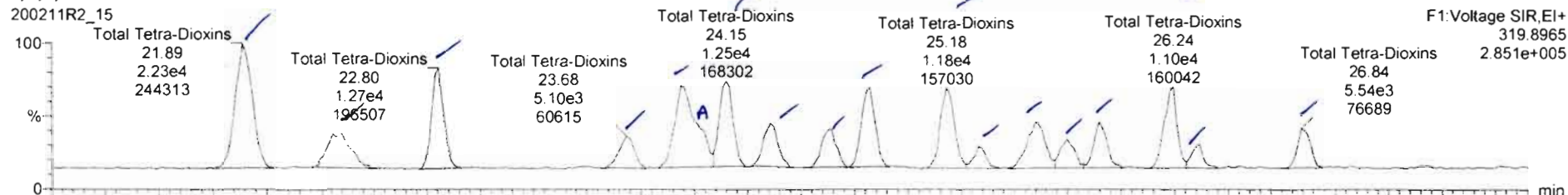
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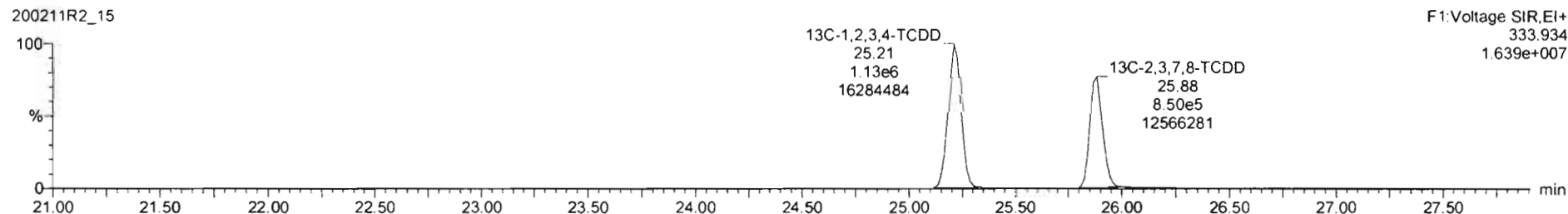
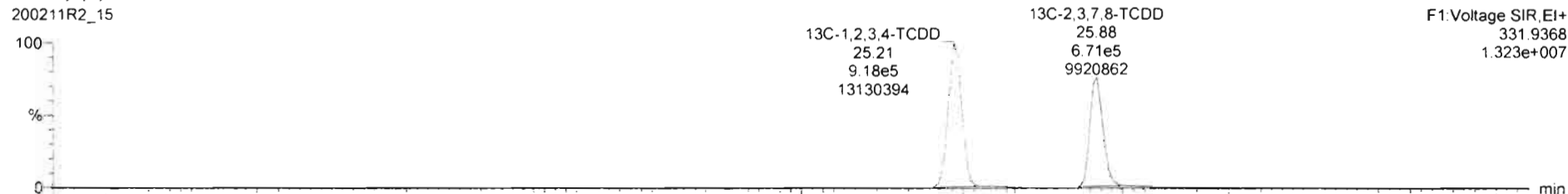
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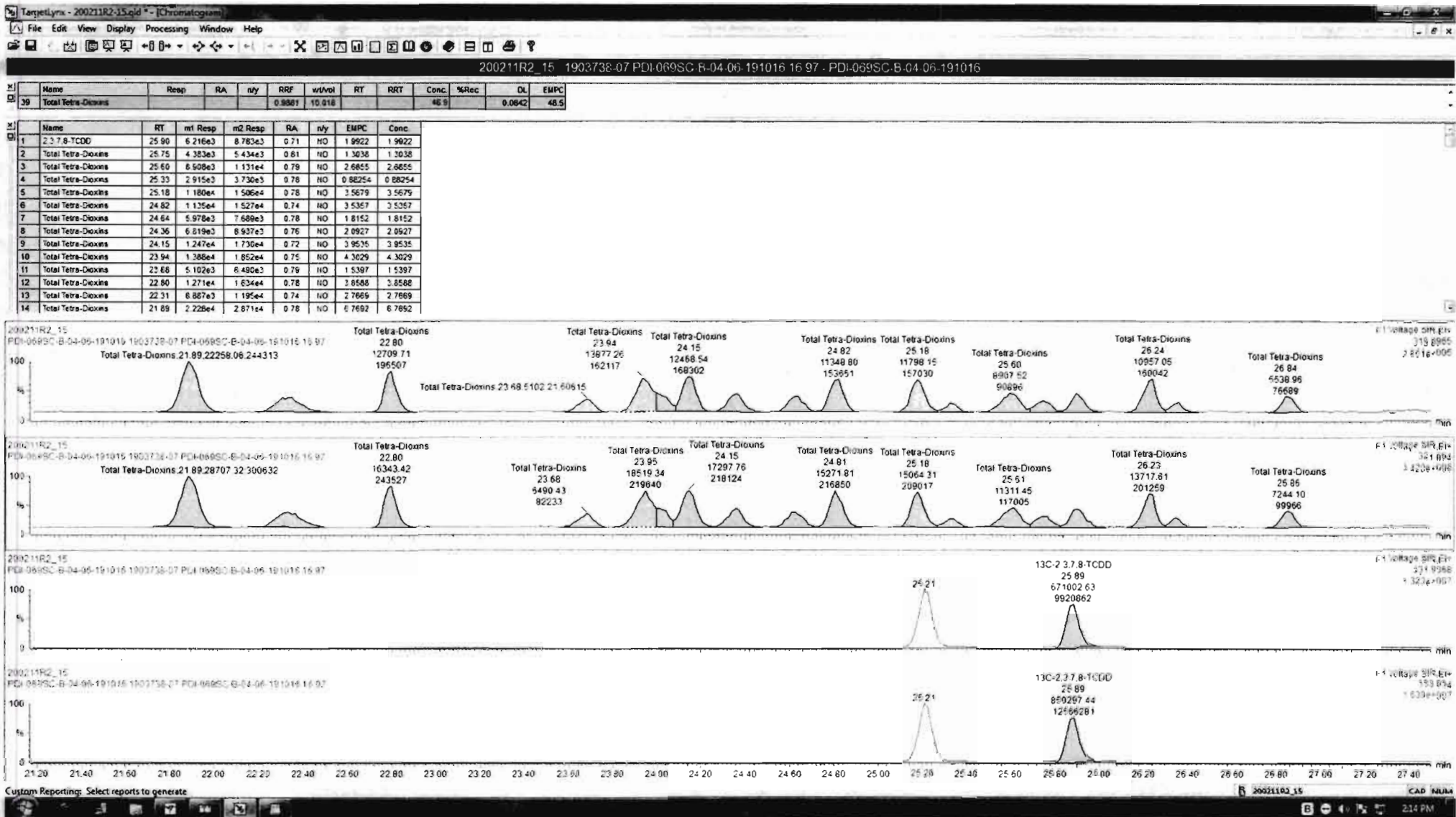
Name: 200211R2_15, Date: 12-Feb-2020, Time: 02:58:39, ID: 1903738-07 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

2,3,7,8-TCDD



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





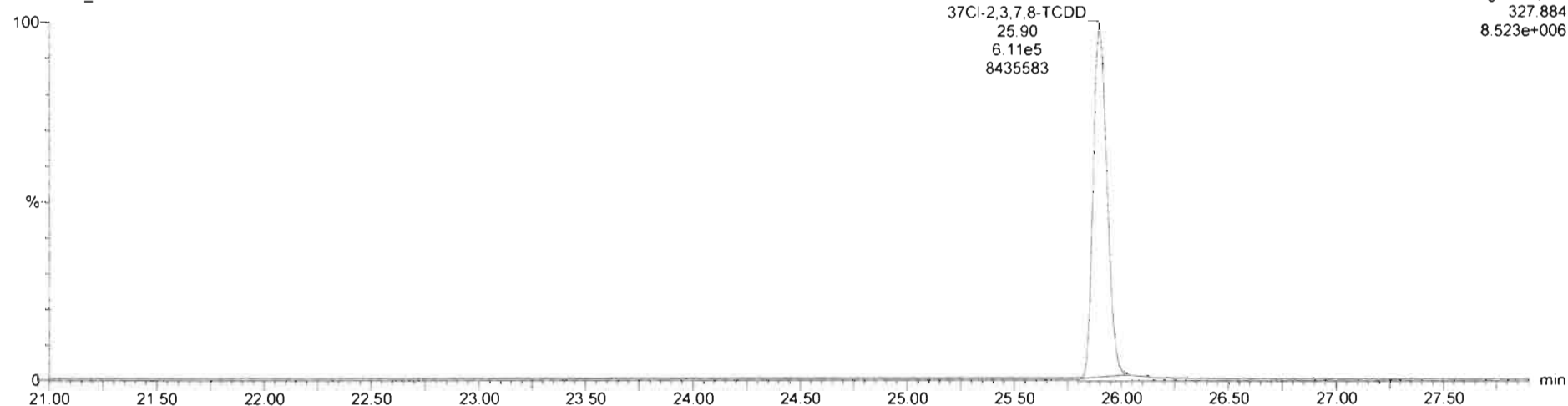
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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_15, Date: 12-Feb-2020, Time: 02:58:39, ID: 1903738-07 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

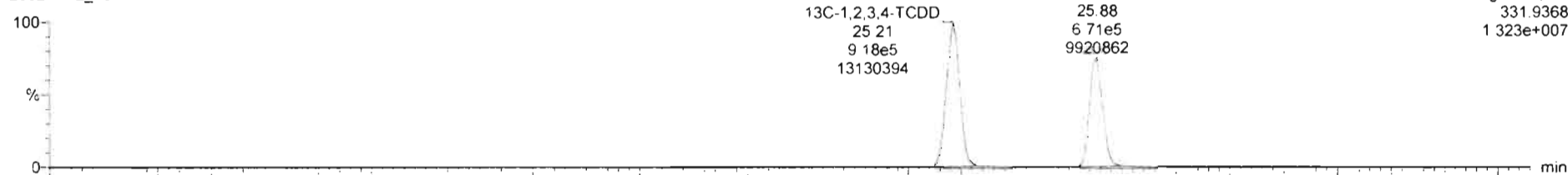
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200211R2_15

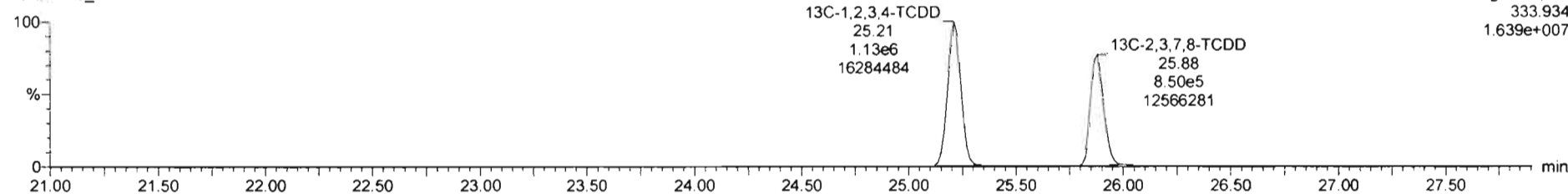


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200211R2_15



200211R2_15



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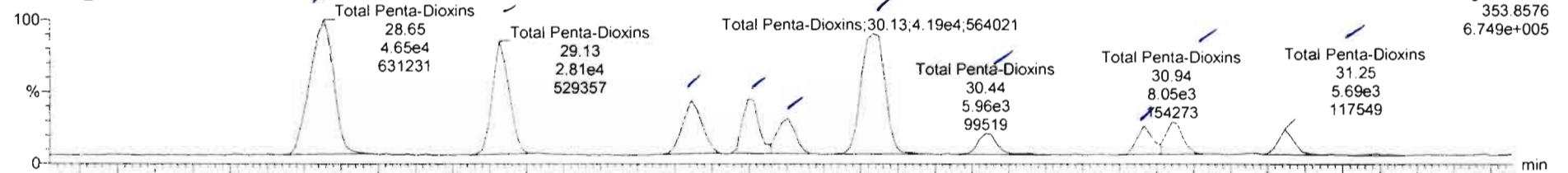
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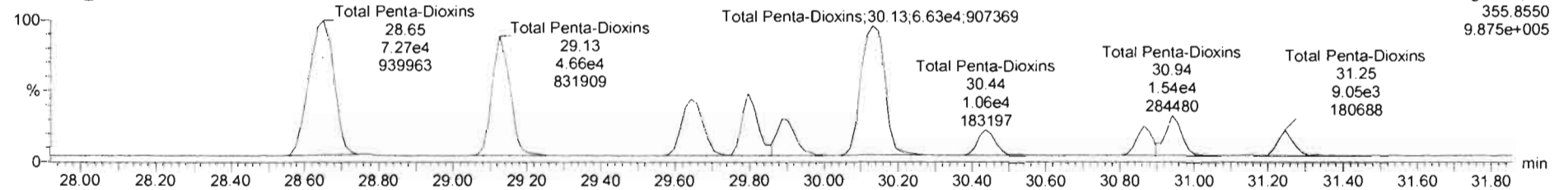
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1,2,3,7,8-PeCDD

200211R2_15

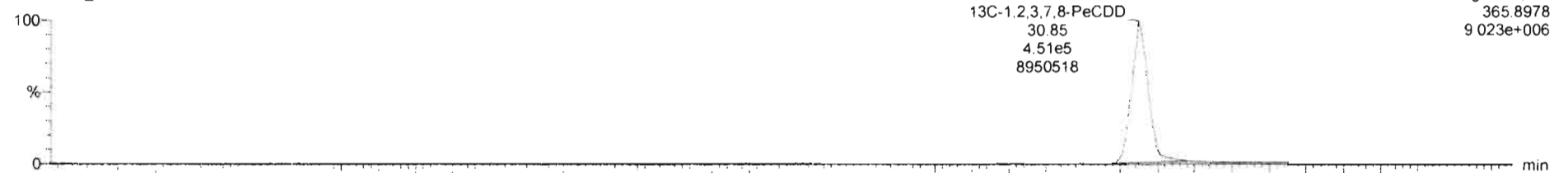


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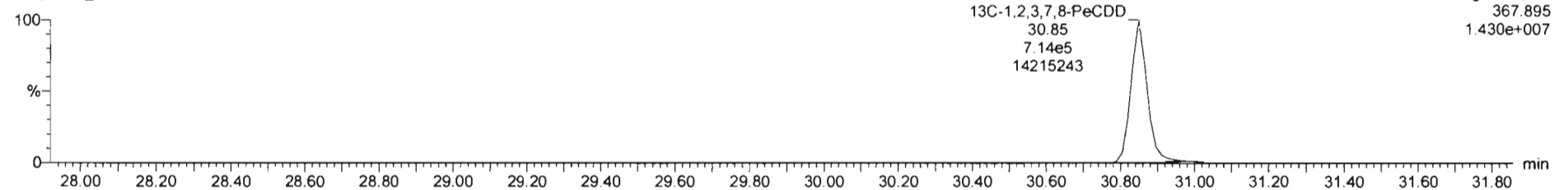


13C-1,2,3,7,8-PeCDD

200211R2_15

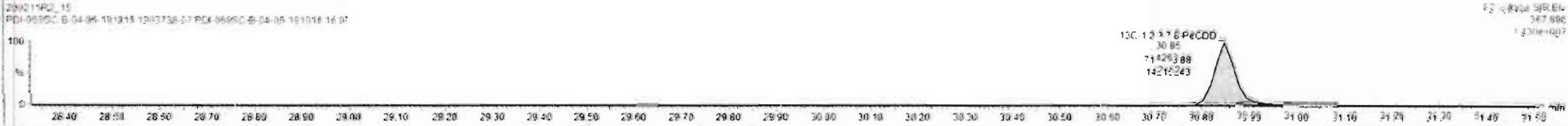
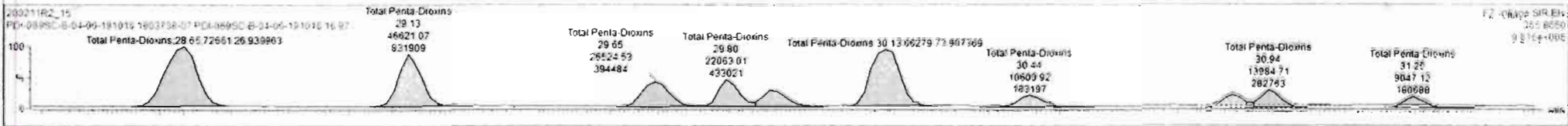
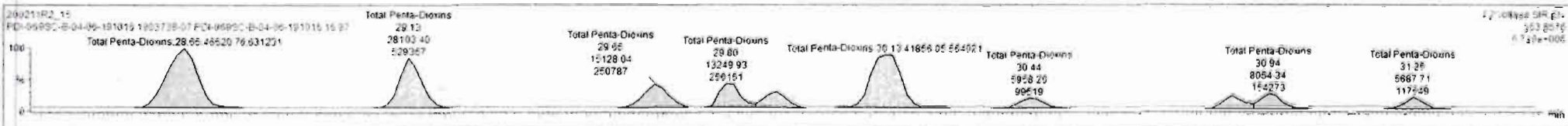


200211R2_15



Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins			0.9881	10.015			46.9		0.0642	48.5

Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.	
1	Total Penta-Dioxins	30.44	5.556e3	1.060e4	0.56	NO	2.9189	2.9189
2	Total Penta-Dioxins	30.13	4.186e4	6.628e4	0.63	NO	19.061	19.061
3	Total Penta-Dioxins	29.90	9.277e3	1.549e4	0.60	NO	4.3600	4.3600
4	Total Penta-Dioxins	29.80	1.325e4	2.205e4	0.60	NO	6.2247	6.2247
5	Total Penta-Dioxins	29.65	1.513e4	2.652e4	0.57	NO	7.3421	7.3421
6	Total Penta-Dioxins	29.13	2.810e4	4.662e4	0.60	NO	12.172	12.172
7	Total Penta-Dioxins	28.65	4.652e4	7.265e4	0.64	NO	21.008	21.008
8	Total Penta-Dioxins	31.25	5.886e3	9.047e3	0.63	NO	2.5973	2.5973
9	Total Penta-Dioxins	30.54	8.354e3	1.358e4	0.58	NO	3.8848	3.8848
10	1,2,3,7,8-PeCDD	30.86	6.665e3	1.112e4	0.60	NO	3.1356	3.1356



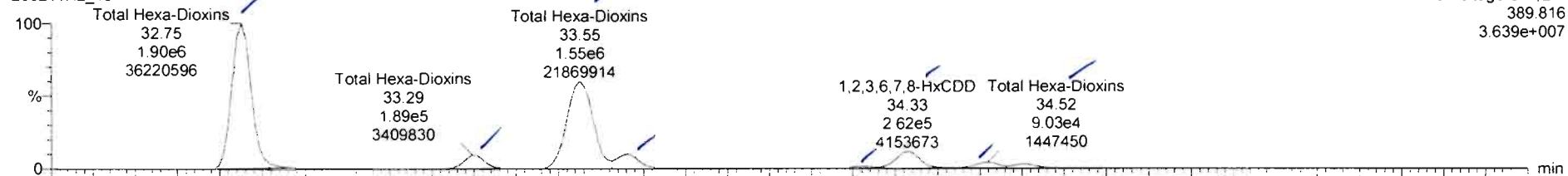
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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

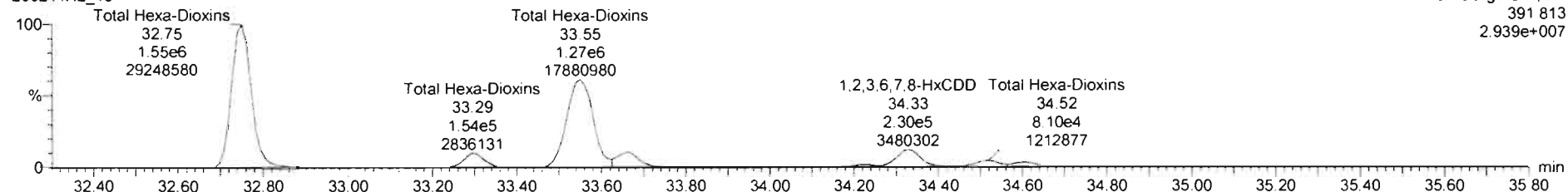
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1,2,3,4,7,8-HxCDD

200211R2_15

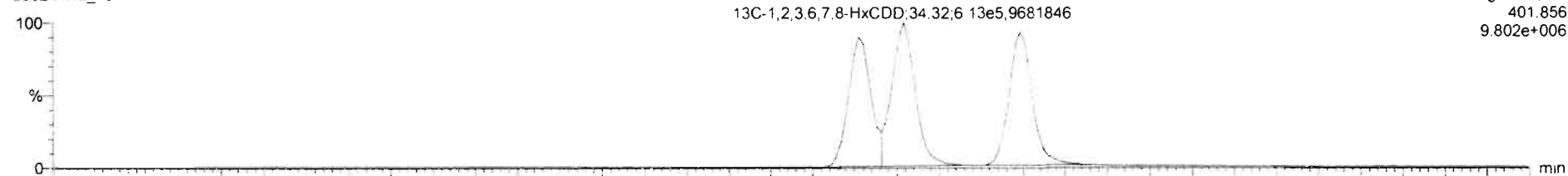


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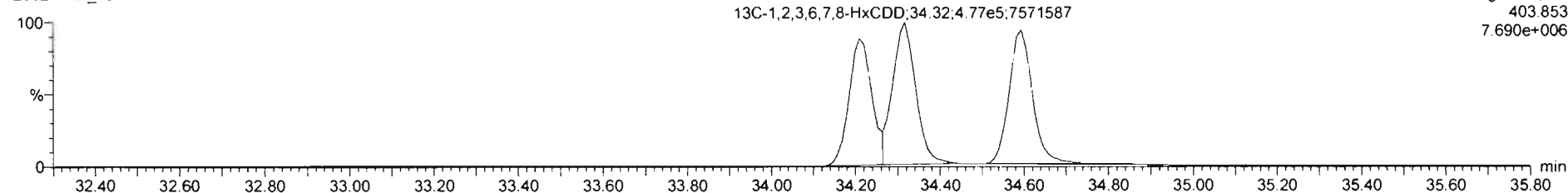


13C-1,2,3,4,7,8-HxCDD

200211R2_15



200211R2_15



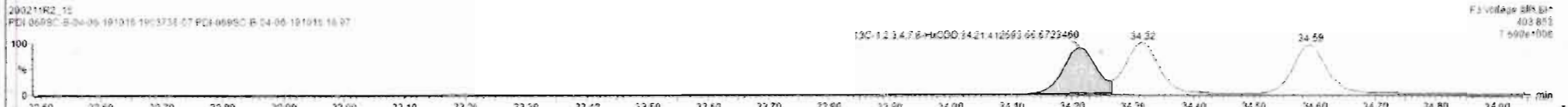
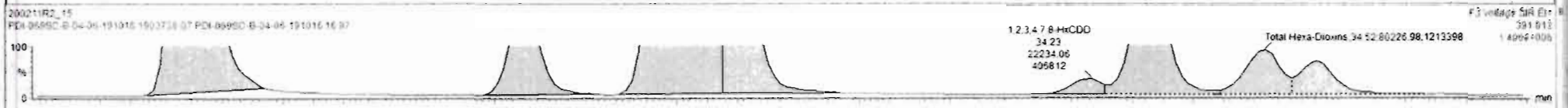
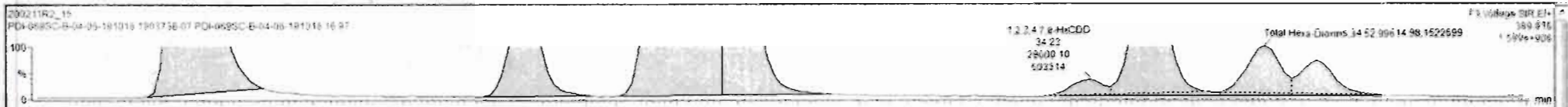
Targetlynx - 200211R2_15.qid - [Chromatogram]

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200211R2_15 - 1903738-07 PDI-069SC-B-04-06-191016 16 97 - PDI-069SC-B-04-06-191016

Name	Resp	RA	nly	RRF	wt/mol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9211	10.816			1670		0.694	1670

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,7,8-HxCDD	34.60	7.129e4	5.635e4	1.22	NO	27.396	27.396
2 Total Hexa-Dioxins	34.52	9.961e4	8.023e4	1.24	NO	38.207	38.207
3 1,2,3,6,7,8-HxCDD	34.33	2.781e5	2.311e5	1.20	NO	100.81	100.81
4 1,2,3,4,7,8-HxCDD	34.23	2.590e4	2.222e4	1.20	NO	10.148	10.148
5 Total Hexa-Dioxins	33.67	2.231e5	1.812e5	1.23	NO	85.895	85.895
6 Total Hexa-Dioxins	33.55	1.545e6	1.268e6	1.22	NO	598.32	598.32
7 Total Hexa-Dioxins	33.29	1.890e5	1.544e5	1.22	NO	72.936	72.936
8 Total Hexa-Dioxins	32.75	1.902e6	1.551e6	1.22	NO	733.58	733.58



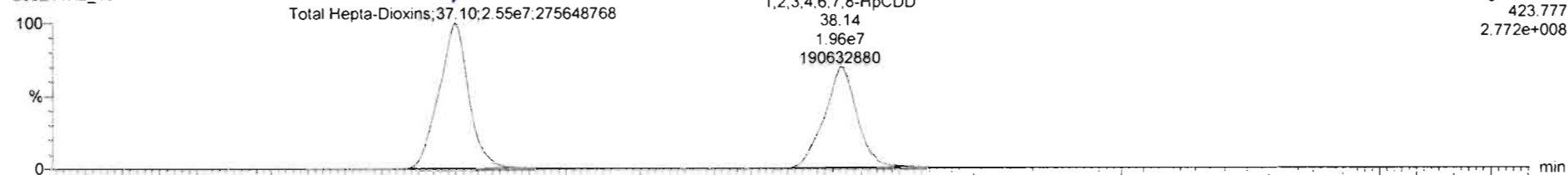
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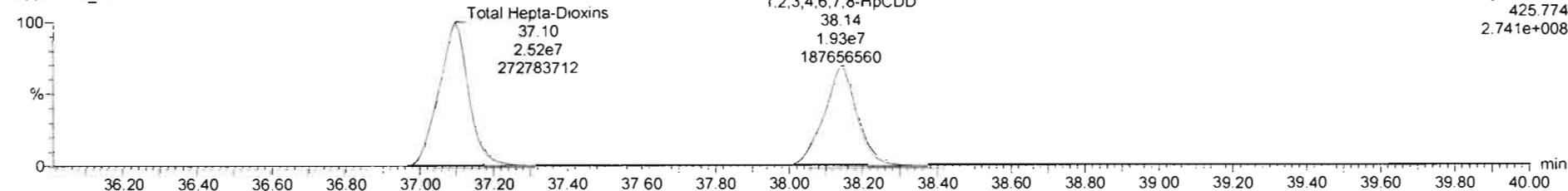
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1,2,3,4,6,7,8-HpCDD

200211R2_15

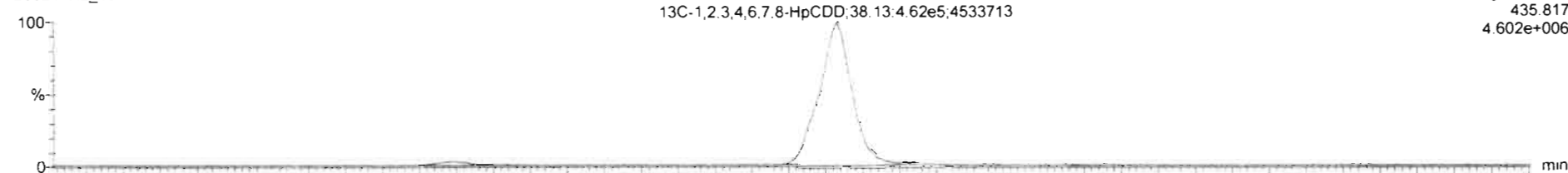


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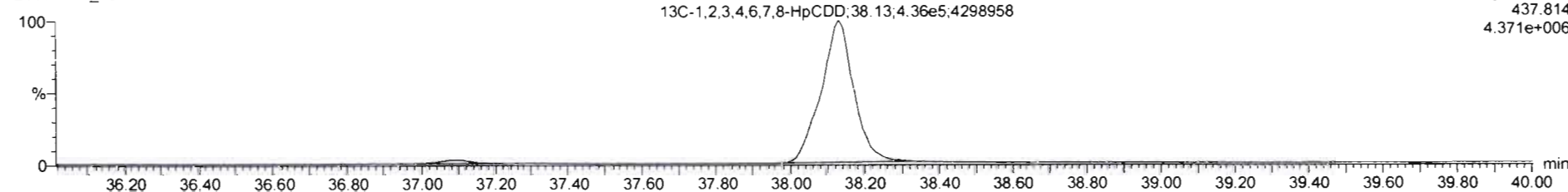


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200211R2_15



200211R2_15

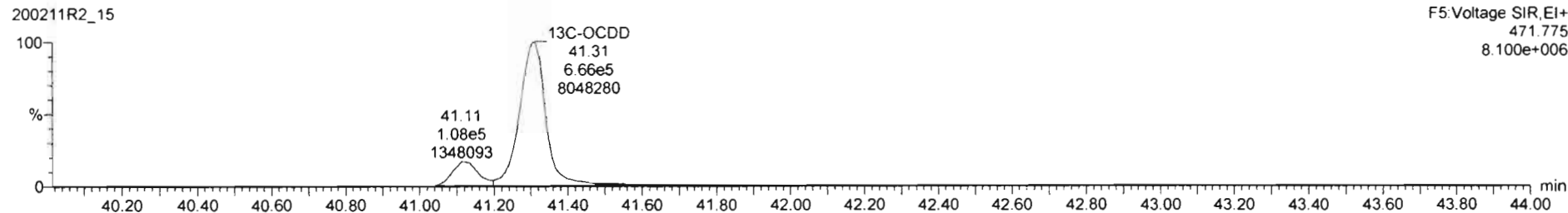
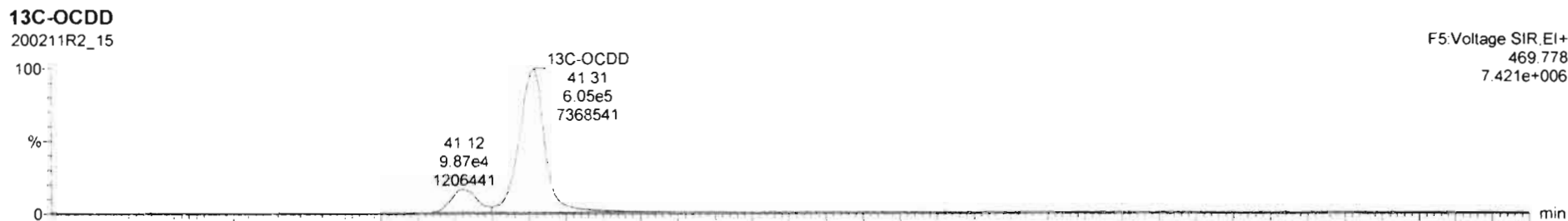
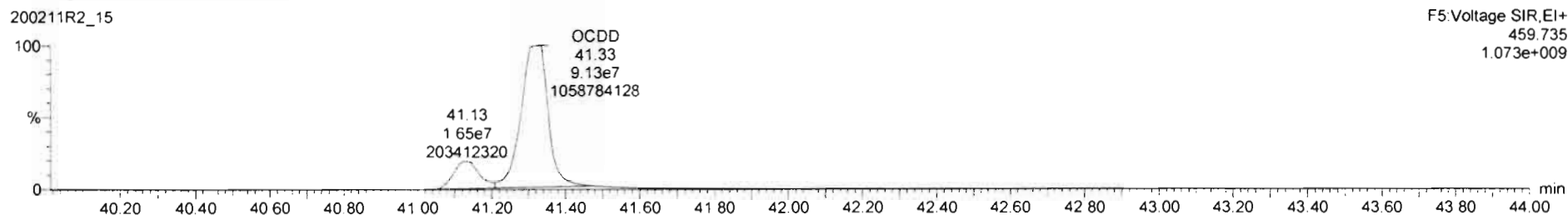
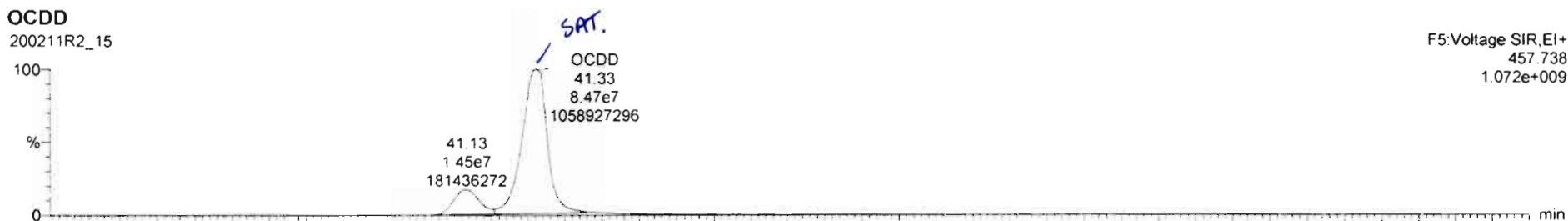


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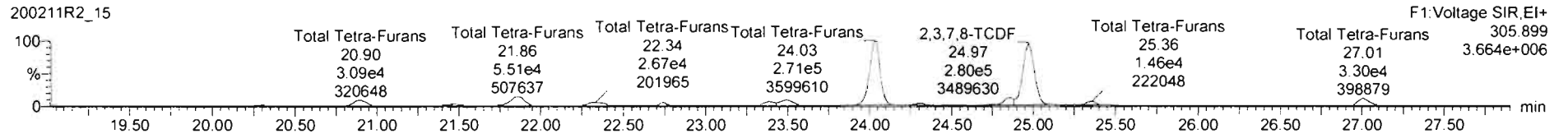
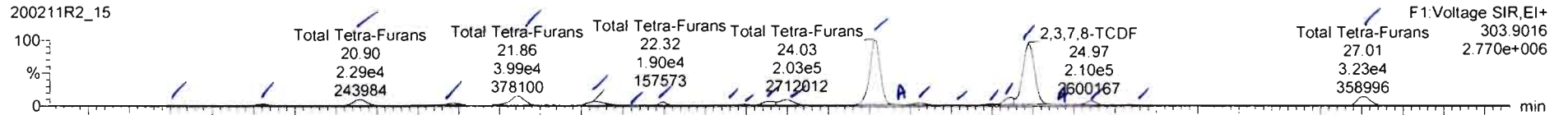
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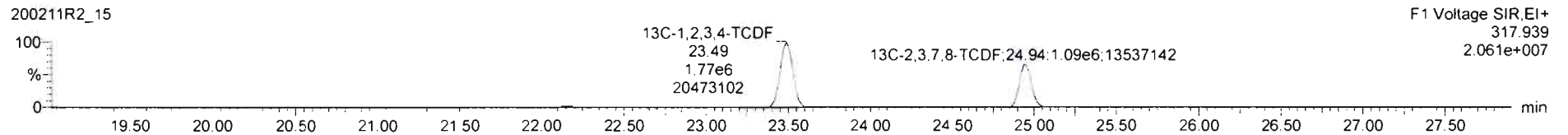
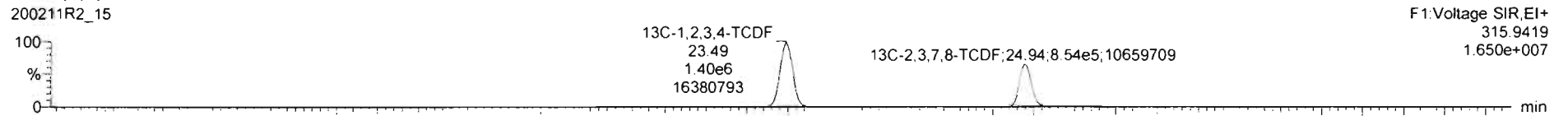
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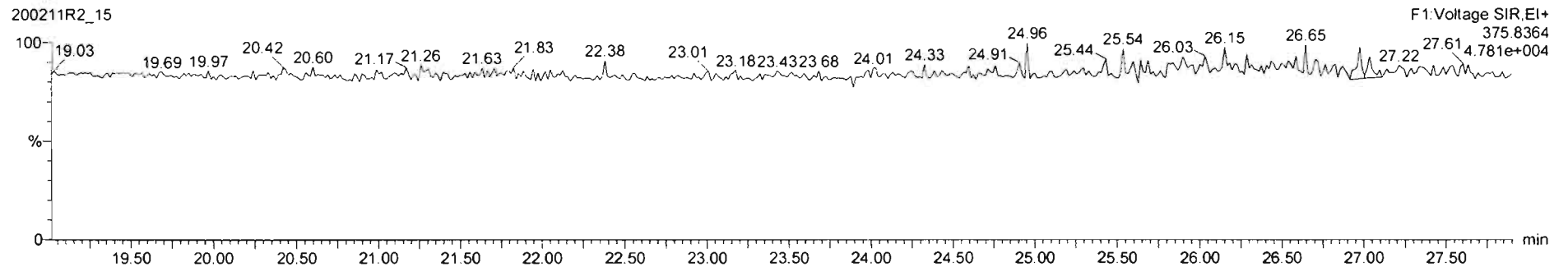
2,3,7,8-TCDF



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

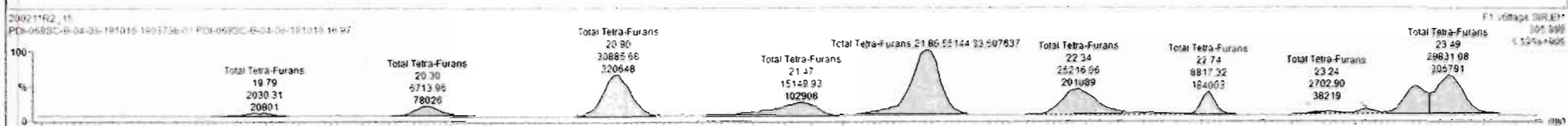
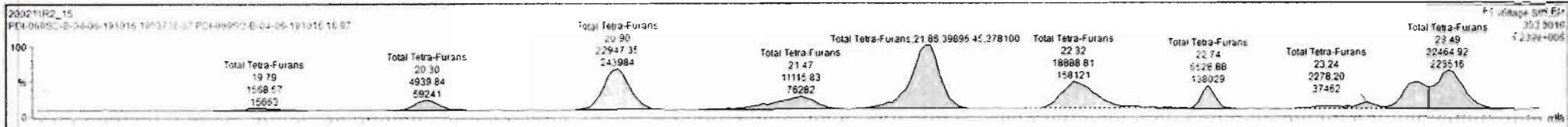


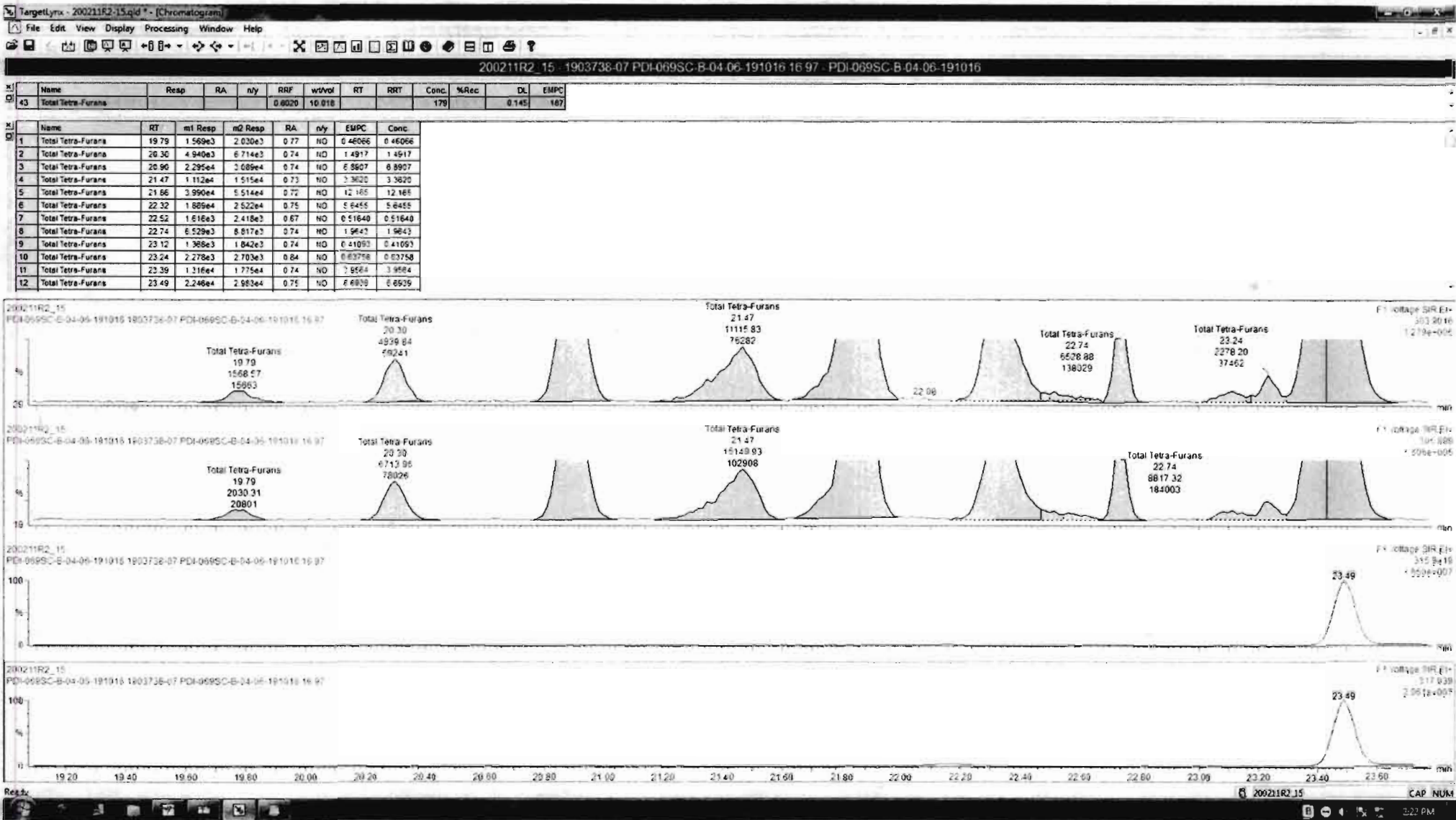
DPE1



ID	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.6020	10.816			179		0.145	187

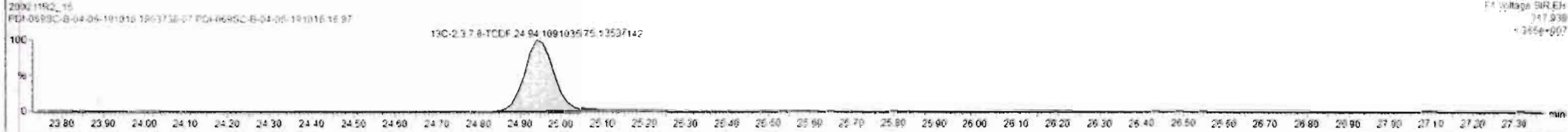
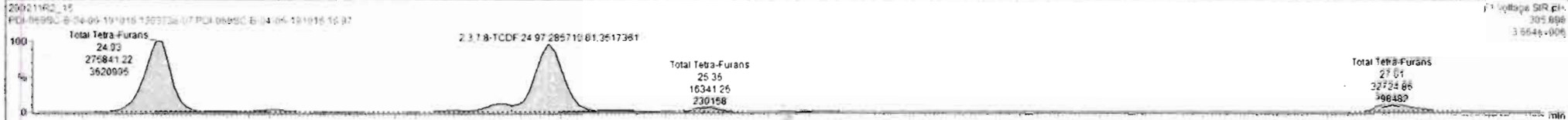
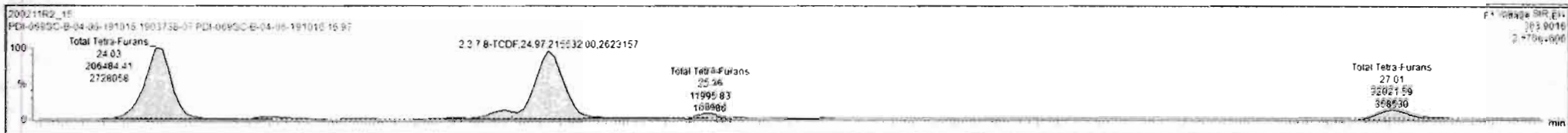
ID	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	19.79	1.569e3	2.030e3	0.77	NO	0.46066	0.46066
2	Total Tetra-Furans	20.30	4.940e3	6.714e3	0.74	NO	1.4917	1.4917
3	Total Tetra-Furans	20.90	2.295e4	3.089e4	0.74	NO	6.8507	6.8507
4	Total Tetra-Furans	21.47	1.112e4	1.515e4	0.73	NO	3.3620	3.3620
5	Total Tetra-Furans	21.86	3.996e4	5.514e4	0.72	NO	12.165	12.165
6	Total Tetra-Furans	22.32	1.689e4	2.522e4	0.75	NO	5.6455	5.6455
7	Total Tetra-Furans	22.52	1.616e3	2.418e3	0.67	NO	0.51640	0.51640
8	Total Tetra-Furans	22.74	6.529e3	8.817e3	0.74	NO	1.9643	1.9643
9	Total Tetra-Furans	23.12	1.388e3	1.842e3	0.74	NO	0.41093	0.41093
10	Total Tetra-Furans	23.24	2.278e3	2.703e3	0.84	NO	0.63758	0.63758
11	Total Tetra-Furans	23.39	1.316e4	1.775e4	0.74	NO	3.9564	3.9564
12	Total Tetra-Furans	23.49	2.246e4	2.963e4	0.75	NO	6.6939	6.6939

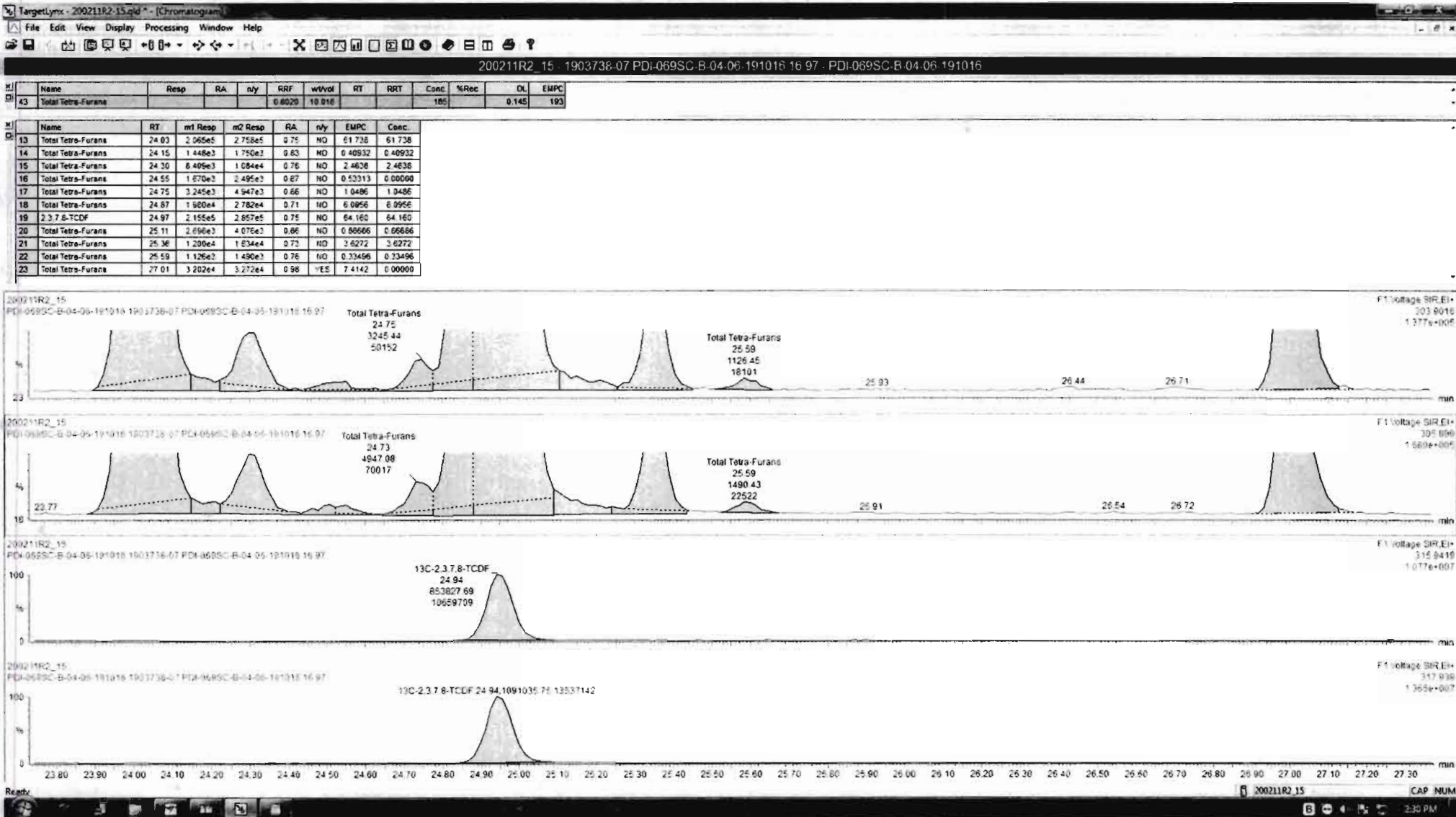




Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
Total Tetra-Furans				0.8020	10.016				185	0.145	193

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
13 Total Tetra-Furane	24.03	2.065e5	2.758e5	0.75	NO	61.738	61.738
14 Total Tetra-Furans	24.15	1.446e3	1.750e3	0.83	NO	0.40932	0.40932
15 Total Tetra-Furans	24.30	6.409e3	1.084e4	0.78	NO	2.4638	2.4638
16 Total Tetra-Furans	24.55	1.670e3	2.495e3	0.67	NO	0.53313	0.00000
17 Total Tetra-Furans	24.75	3.245e3	4.947e3	0.66	NO	1.0486	1.0486
18 Total Tetra-Furans	24.87	1.980e4	2.782e4	0.71	NO	6.0956	6.0956
19 2,3,7,8-TCDF	24.97	2.155e5	2.857e5	0.75	NO	64.160	64.160
20 Total Tetra-Furans	25.11	2.596e3	4.079e3	0.66	NO	0.86666	0.86666
21 Total Tetra-Furans	25.36	1.200e4	1.834e4	0.72	NO	3.6272	3.6272
22 Total Tetra-Furans	25.59	1.126e3	1.490e3	0.76	NO	0.33496	0.33496
23 Total Tetra-Furans	27.01	3.202e4	3.272e4	0.98	YES	7.4142	0.00000





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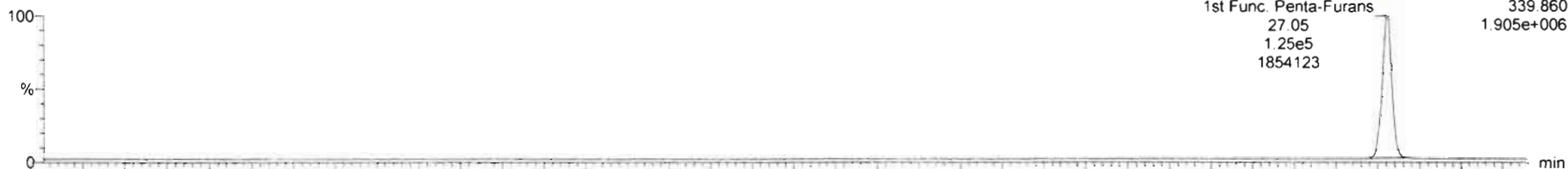
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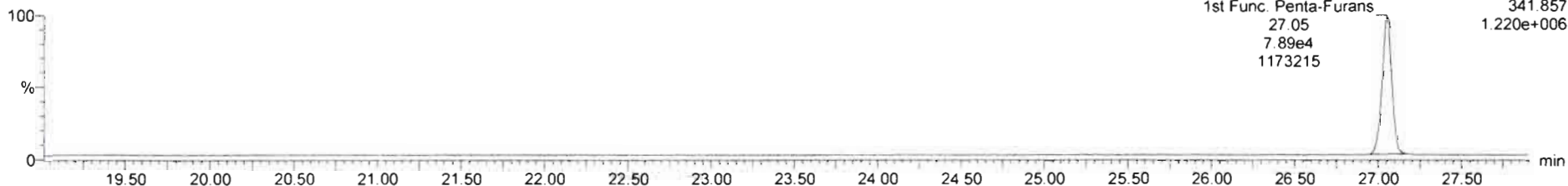
Name: 200211R2_15, Date: 12-Feb-2020, Time: 02:58:39, ID: 1903738-07 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

1st Func. Penta-Furans

200211R2_15

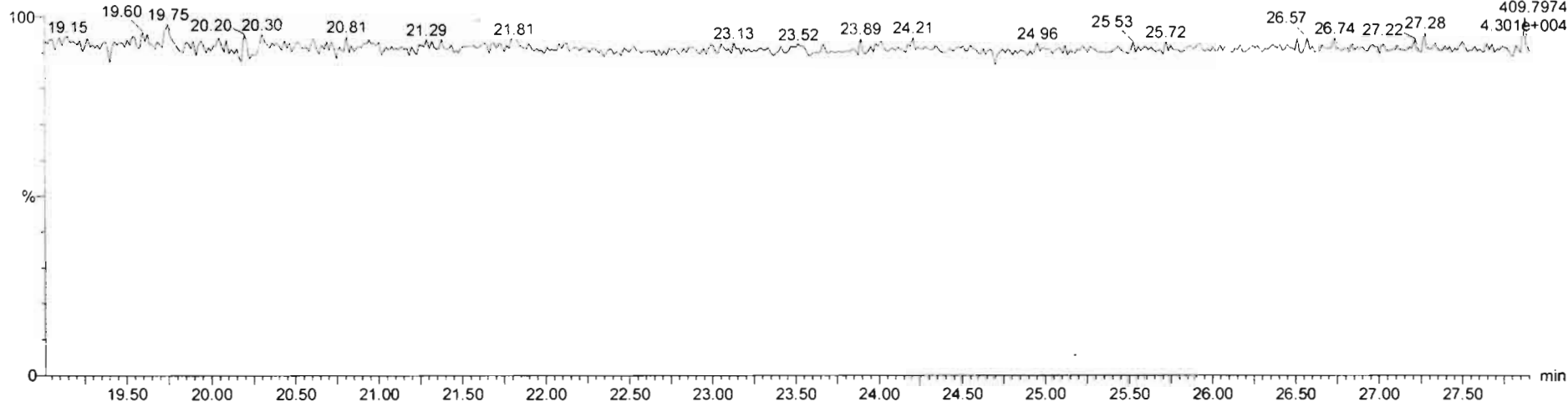


200211R2_15



DPE6

200211R2_15



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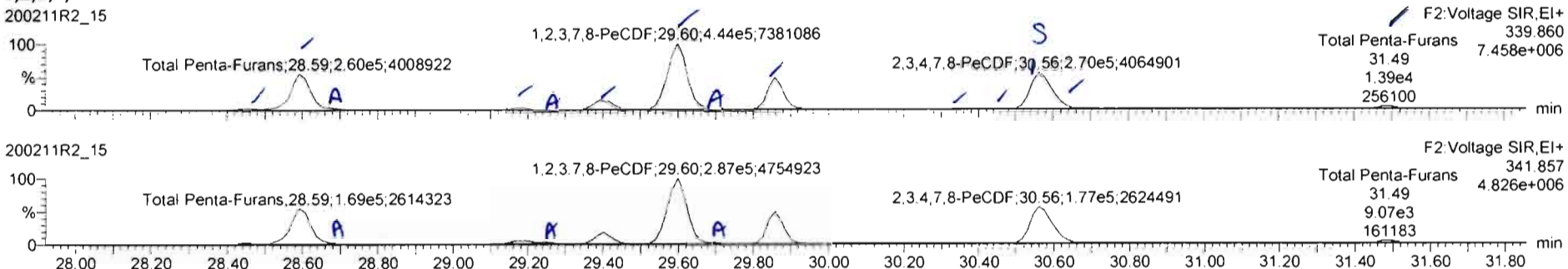
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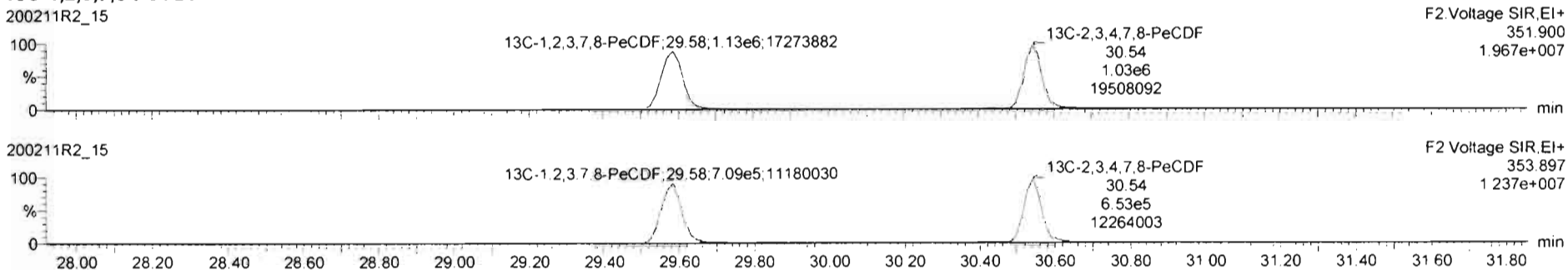
1,2,3,7,8-PeCDF

200211R2_15



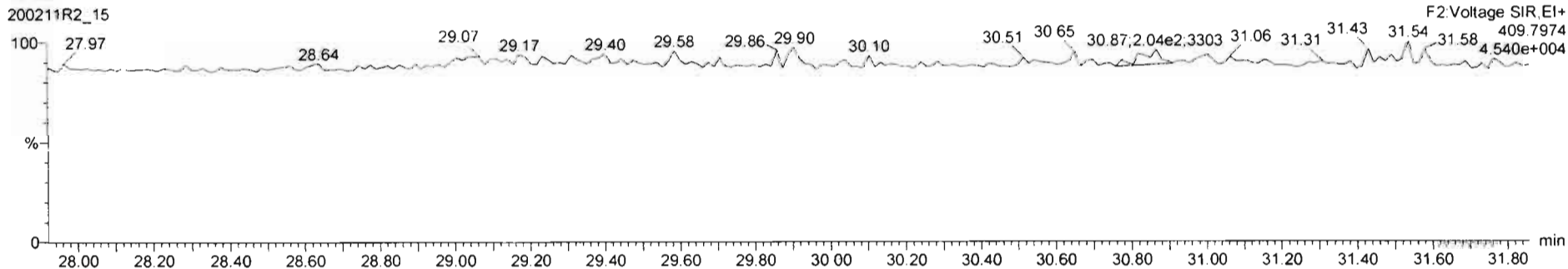
13C-1,2,3,7,8-PeCDF

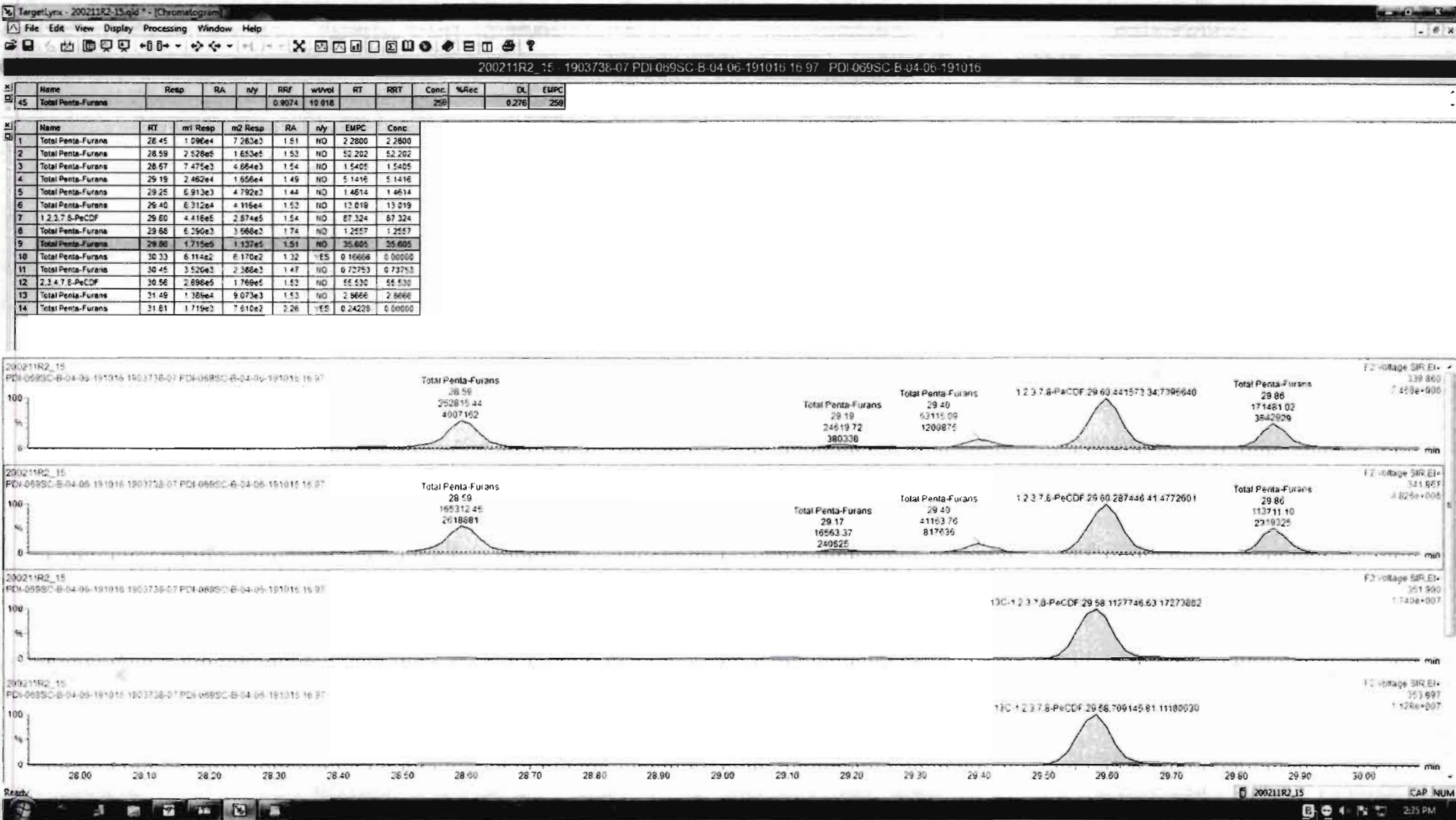
200211R2_15



DPE2

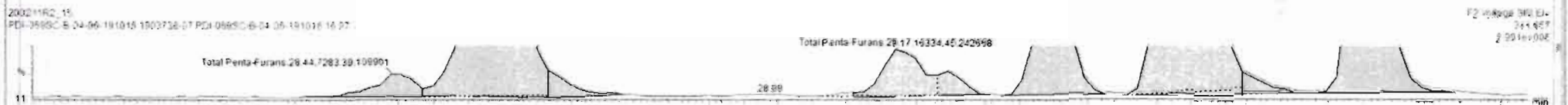
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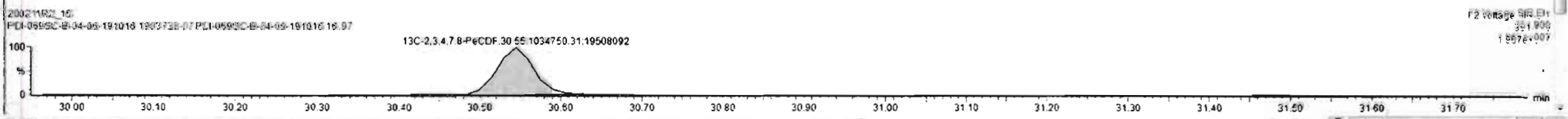
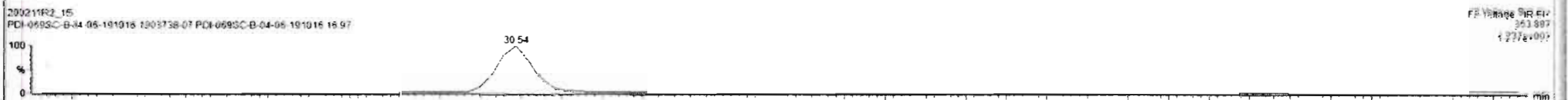
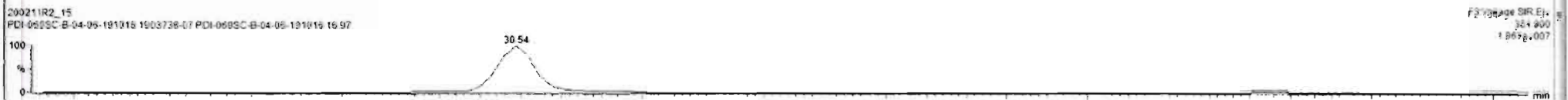
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans			0.9074	10.016			258	0.276	258	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Penta-Furans	26.45	1.090e4	7.283e2	1.51	NO	2.2800	2.2800
2	Total Penta-Furans	28.59	2.526e5	1.653e5	1.93	NO	52.202	52.202
3	Total Penta-Furans	28.67	7.475e3	4.884e3	1.54	NO	1.5405	1.5405
4	Total Penta-Furans	29.19	2.412e4	1.633e4	1.48	NO	5.0514	5.0514
5	Total Penta-Furans	29.25	6.913e3	4.792e3	1.44	NO	1.4614	1.4614
6	Total Penta-Furans	29.40	6.312e4	4.116e4	1.53	NO	12.019	13.019
7	1,2,3,7,8-PeCDF	29.60	4.416e5	2.674e5	1.64	NO	87.324	87.324
8	Total Penta-Furans	29.68	5.390e3	3.568e3	1.74	NO	1.2557	1.2557
9	Total Penta-Furans	29.86	1.715e5	1.137e5	1.51	NO	35.605	35.605
10	Total Penta-Furans	30.33	6.114e2	6.170e2	1.32	ES	0.16666	0.00000
11	Total Penta-Furans	30.45	3.520e3	2.388e3	1.47	NO	0.73753	0.73753
12	2,3,4,7,8-PeCDF	30.56	2.696e5	1.799e5	1.53	NO	55.530	55.530
13	Total Penta-Furans	31.49	1.385e4	9.073e3	1.63	NO	2.8668	2.8668
14	Total Penta-Furans	31.61	1.719e3	7.810e2	2.26	ES	0.24228	0.00000



Name	Resp	RA	n/y	RRF	w/wot	RT	RRT	Conc.	%Rec.	DL	EMPC
45 Total Penta-Furans				0.9074	10.018			259	0.276	259	
46 Total Hexa-Furans				0.8962	10.016			515	0.248	515	

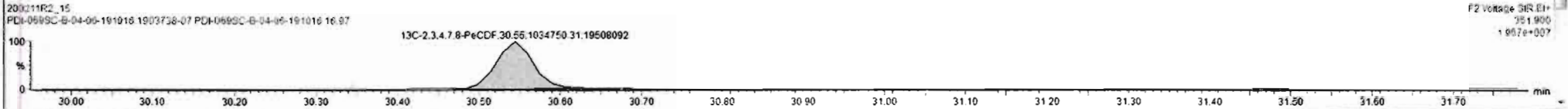
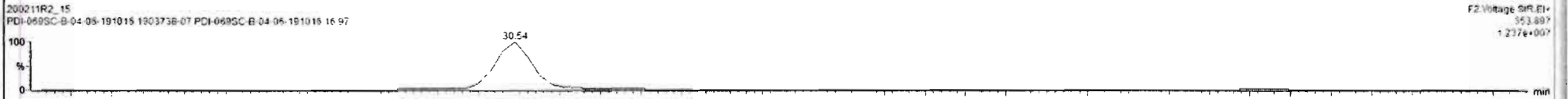
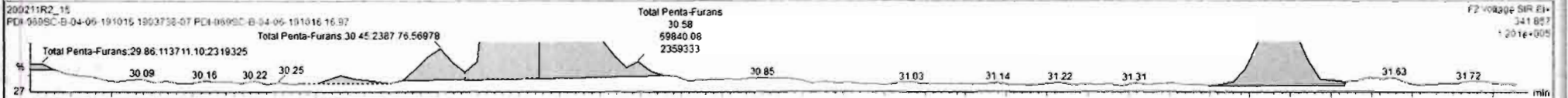
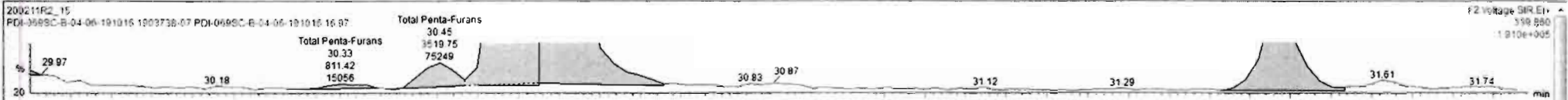
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
6 Total Penta-Furans	29.40	6.312e4	4.116e4	1.53	NO	13.019	13.018
7 1,2,3,7,8-PeCDF	29.60	4.416e5	2.874e5	1.54	NO	87.324	87.324
8 Total Penta-Furans	29.57	6.390e3	3.668e3	1.74	NO	1.2567	1.2567
9 Total Penta-Furans	29.86	1.715e5	1.137e5	1.51	NO	35.605	35.605
10 Total Penta-Furans	30.33	8.114e2	5.979e2	1.36	NO	0.17595	0.17595
11 Total Penta-Furans	30.45	3.520e3	2.386e3	1.47	NO	0.73753	0.73753
12 2,3,4,7,8-PeCDF	30.56	1.624e5	1.074e5	1.51	NO	33.536	33.536
13 Total Penta-Furans	30.58	1.091e5	6.964e4	1.56	NO	22.346	22.346
14 Total Penta-Furans	31.49	1.389e4	9.073e3	1.53	NO	2.8666	2.8666



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SI	Name	Resp	RA	n/y	RRF	w%vol	RT	RRT	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9074	10.016			258	0.276	258	
46	Total Hexa-Furans				0.8982	10.015			515	0.248	515	

SI	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
6	Total Penta-Furans	29.40	6.312e4	4.116e4	1.53	NO	13.019	13.019
7	1,2,3,7,8-PeCDF	29.60	4.416e5	2.874e5	1.54	NO	87.324	87.324
8	Total Penta-Furans	29.67	6.390e3	3.668e3	1.74	NO	1.2557	1.2557
9	Total Penta-Furans	29.86	1.715e5	1.137e5	1.51	NO	35.605	35.605
10	Total Penta-Furans	30.33	8.114e2	5.579e2	1.36	NO	0.17595	0.17595
11	Total Penta-Furans	30.45	3.520e3	2.388e3	1.47	NO	0.73753	0.73753
12	2,3,4,7,8-PeCDF	30.56	1.824e5	1.074e5	1.51	NO	33.536	33.536
13	Total Penta-Furans	30.58	1.091e5	6.984e4	1.56	NO	22.346	22.346
14	Total Penta-Furans	31.49	1.389e4	5.073e3	1.53	NO	2.8666	2.8666



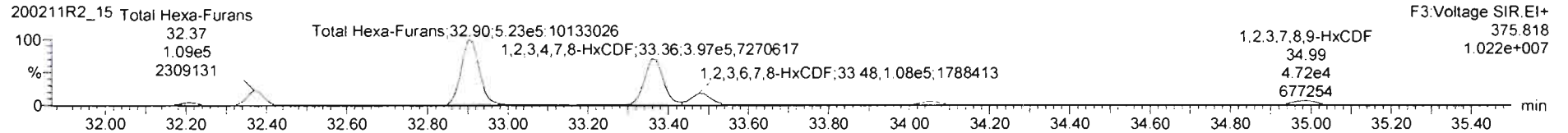
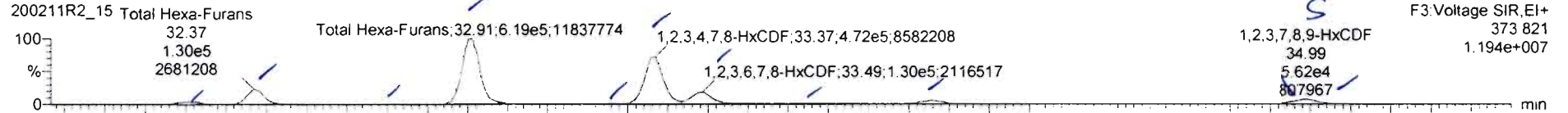
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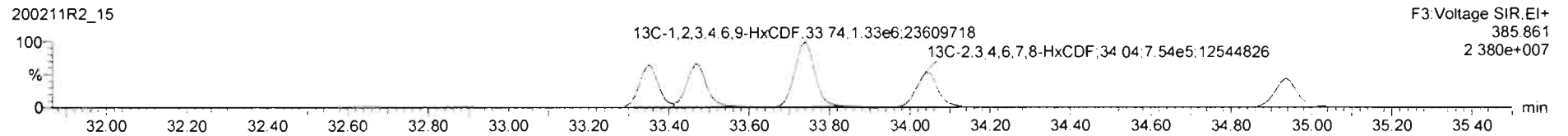
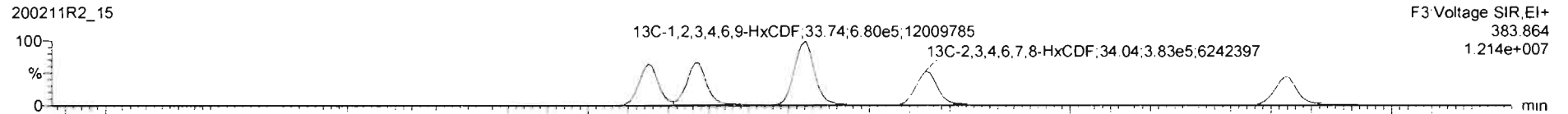
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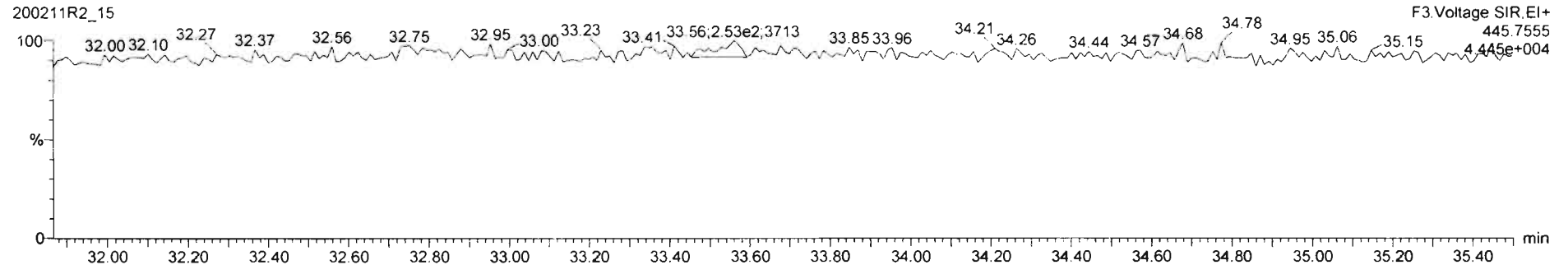
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13C-1,2,3,4,7,8-HxCDF



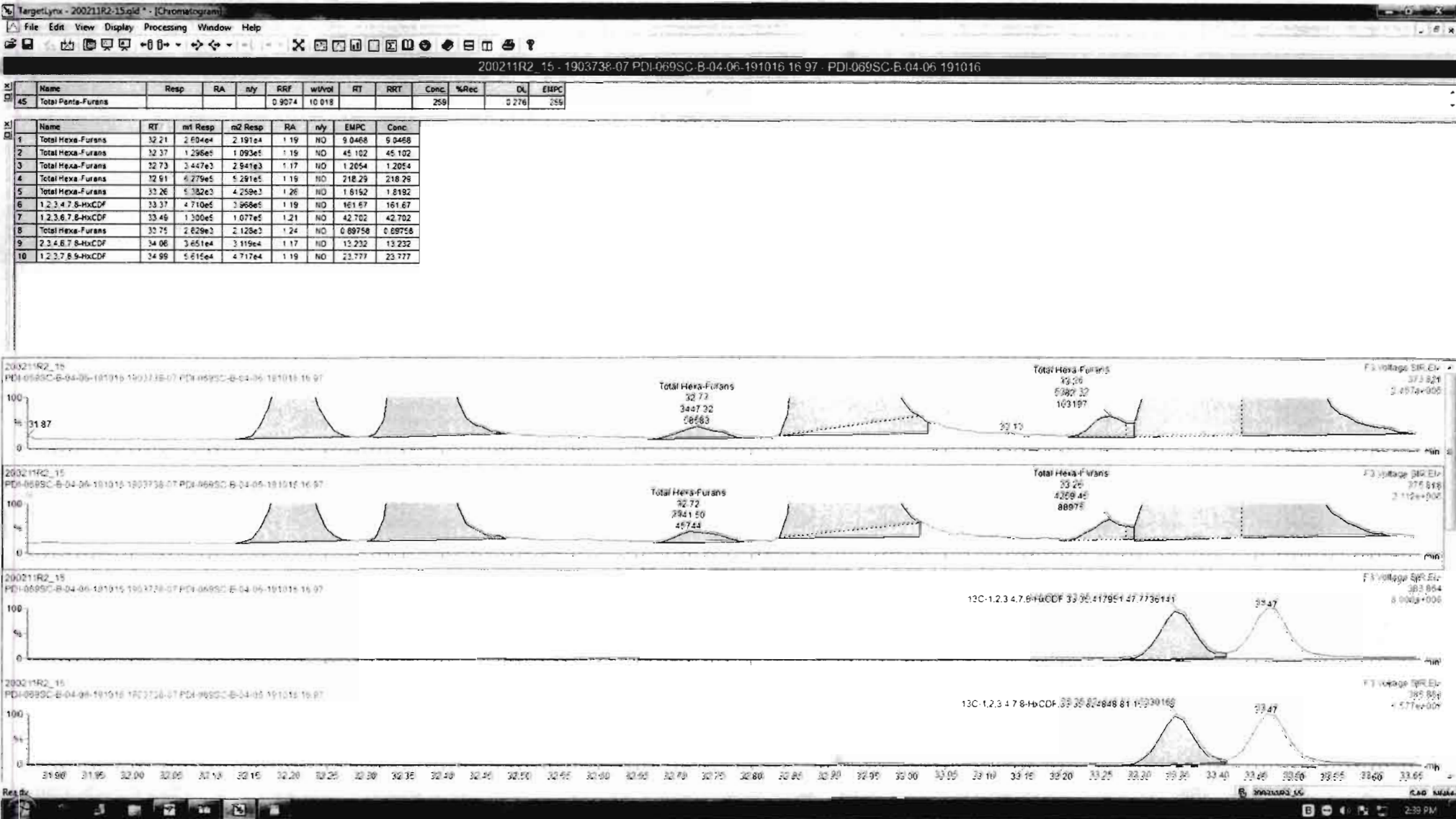
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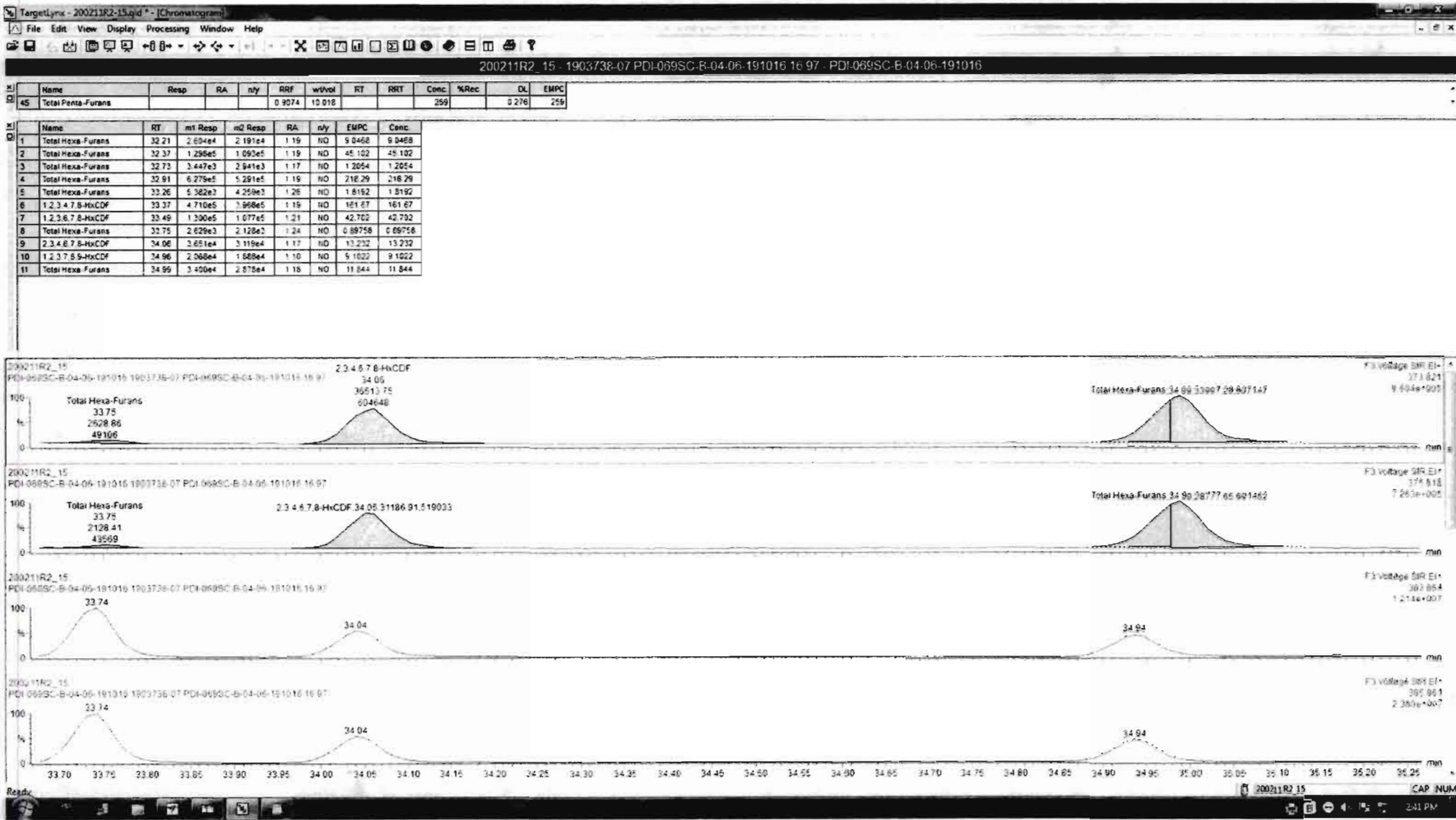


Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9074	10.018			259		0.276	259

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.21	2.604e4	2.191e4	1.19	NO	9.0468	9.0468
2 Total Hexa-Furans	32.37	1.296e5	1.093e5	1.19	NO	45.102	45.102
3 Total Hexa-Furans	32.77	3.447e3	2.941e3	1.17	NO	1.2054	1.2054
4 Total Hexa-Furans	32.61	6.279e5	5.281e5	1.19	NO	218.29	218.29
5 Total Hexa-Furans	32.26	5.382e3	4.259e3	1.26	NO	1.6192	1.6192
6 1,2,3,4,7,8-HxCDF	33.37	4.710e5	3.968e5	1.19	NO	161.67	161.67
7 1,2,3,6,7,8-HxCDF	33.49	1.200e5	1.077e5	1.21	NO	42.702	42.702
8 Total Hexa-Furans	32.75	2.629e3	2.126e3	1.24	NO	0.89758	0.89758
9 2,3,4,6,7,8-HxCDF	34.06	3.651e4	3.119e4	1.17	NO	13.232	13.232
10 1,2,3,7,8,9-HxCDF	34.95	5.615e4	4.717e4	1.19	NO	23.777	23.777







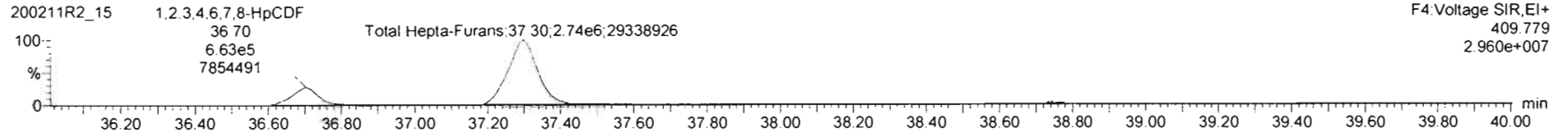
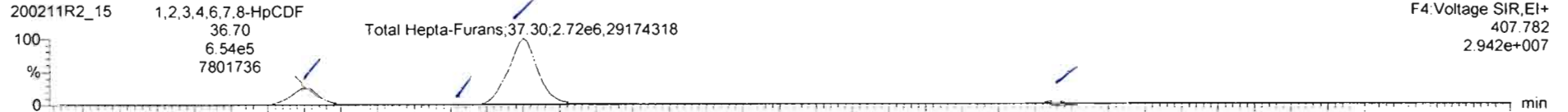
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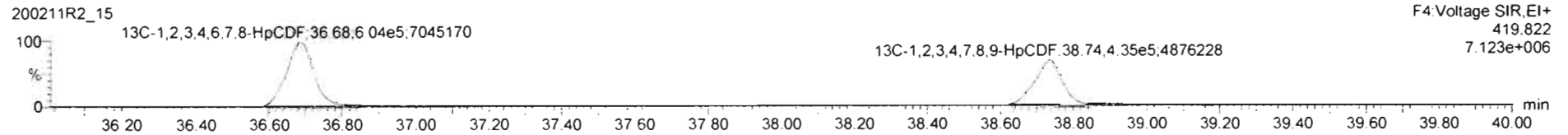
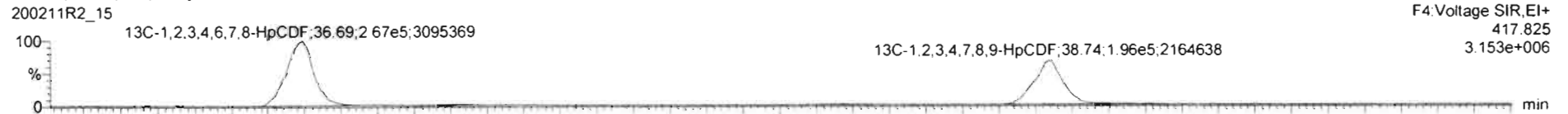
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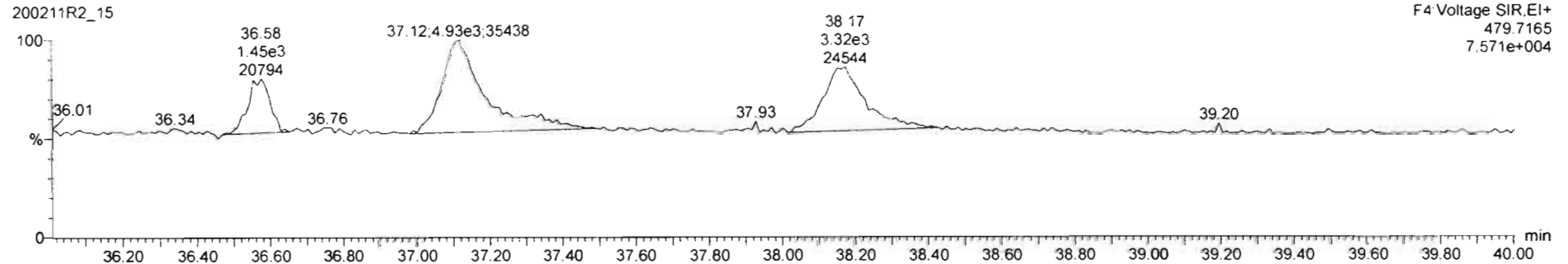
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13C-1,2,3,4,6,7,8-HpCDF



DPE4



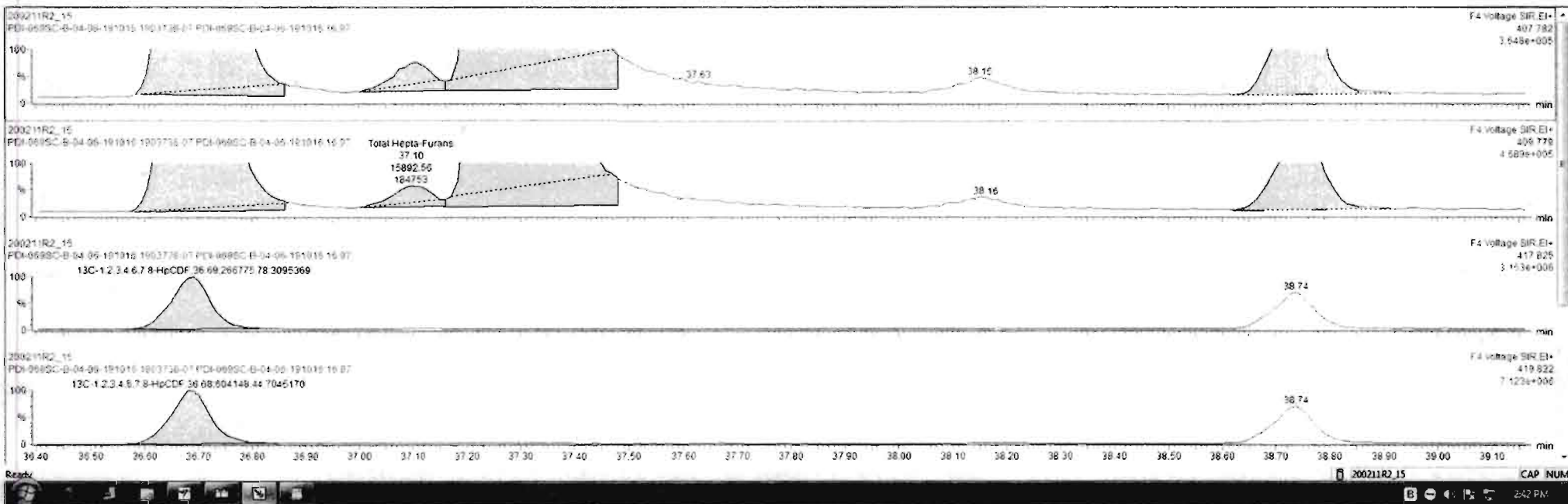
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200211R2_15_1903738-07.PDI-069SC-B-04-06-191016 16:97 . PDI-069SC-B-04-06-191016

Name	Resp	RA	nly	RRF	w%Vol	RT	RRT	Conc	%Rec	DL	EMPC
47	Total Hepta-Furans			0.8511	10.018			2160		0.966	2160

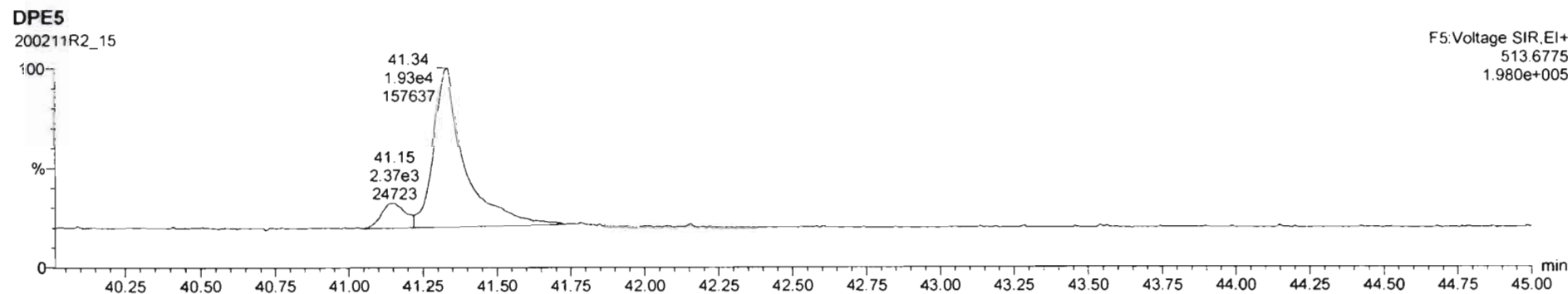
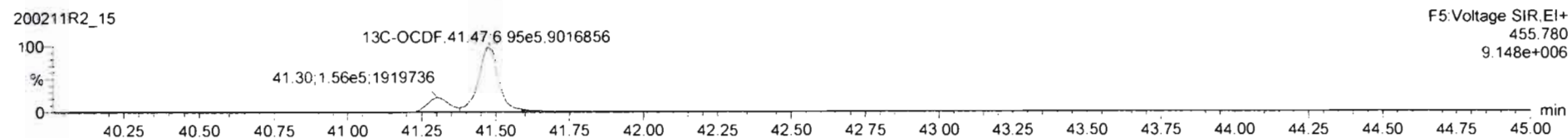
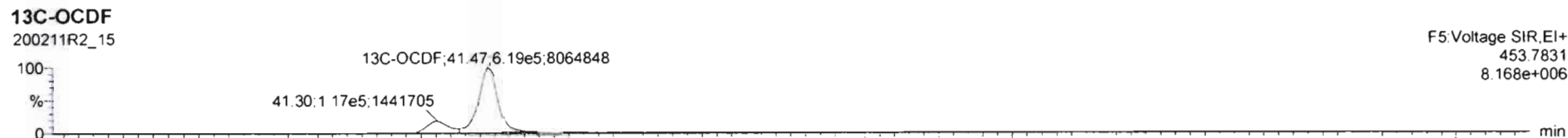
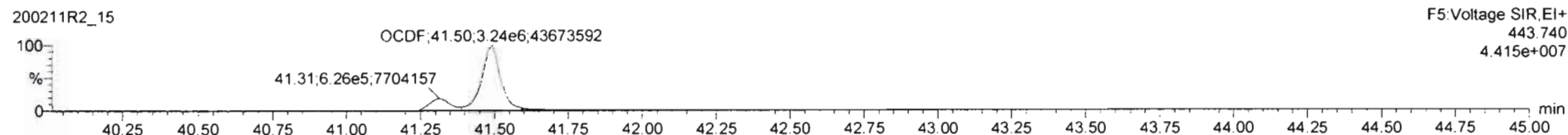
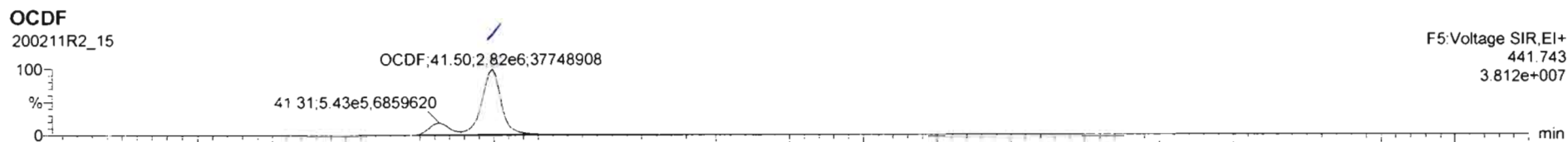
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	1.2.3.4.6.7.8-HpCDF	36.70	6.657e5	6.707e5	0.99	NO	359.96
2	Total Hepta-Furans	37.11	1.603e4	1.589e4	1.01	NO	9.9683
3	Total Hepta-Furans	37.30	2.770e6	2.796e6	0.99	NO	1739.4
4	1.2.3.4.7.8.9-HpCDF	38.75	7.255e4	7.236e4	1.00	NO	46.768



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Last Altered: Wednesday, February 12, 2020 11:39:29 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_15, Date: 12-Feb-2020, Time: 02:58:39, ID: 1903738-07 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016



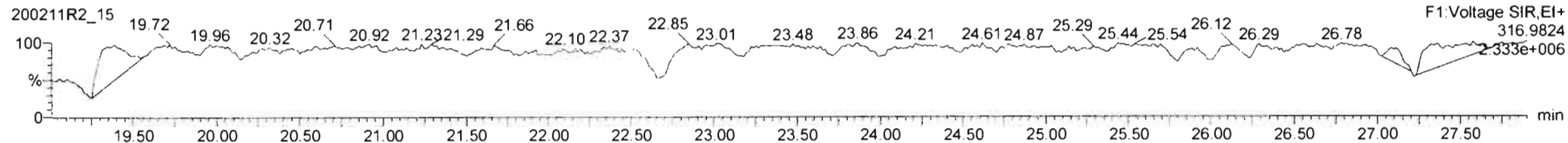
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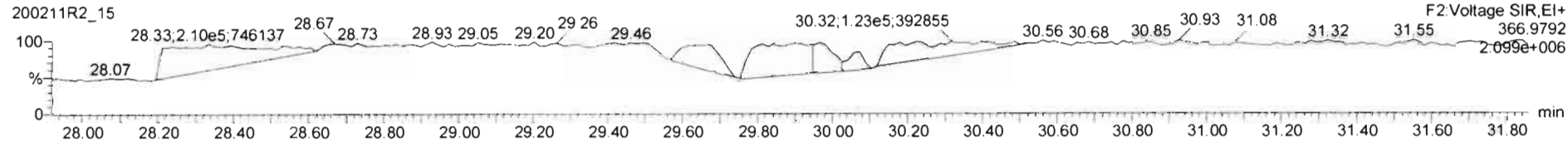
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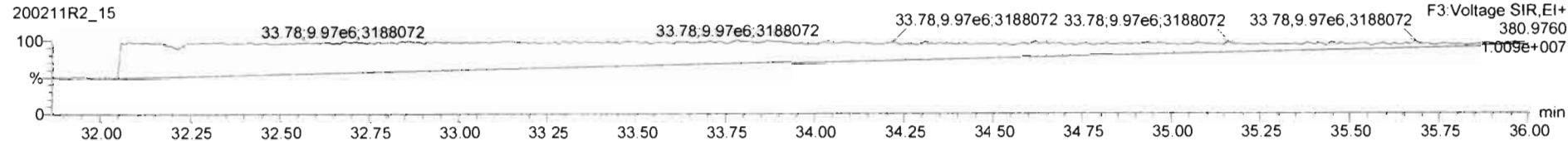
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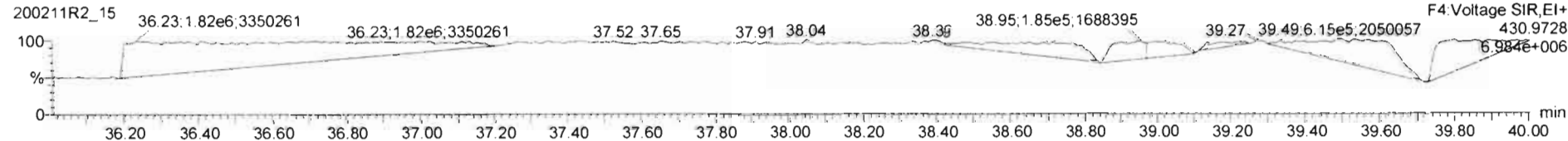
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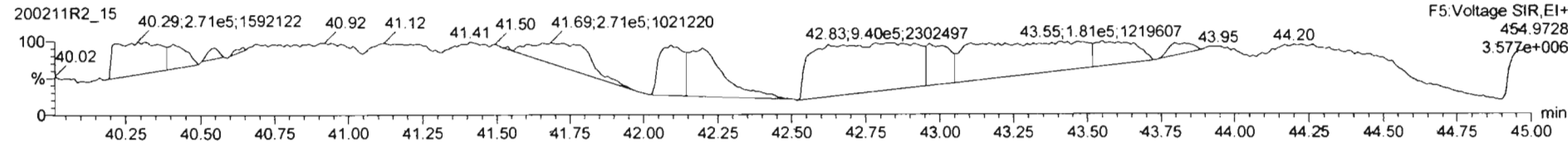
PFK3



PFK4



PFK5



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GPB 02/13/2020

C703/10/2020

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Name: 200212R2_14, Date: 13-Feb-2020, Time: 00:29:29, ID: 1903738-07@20X PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

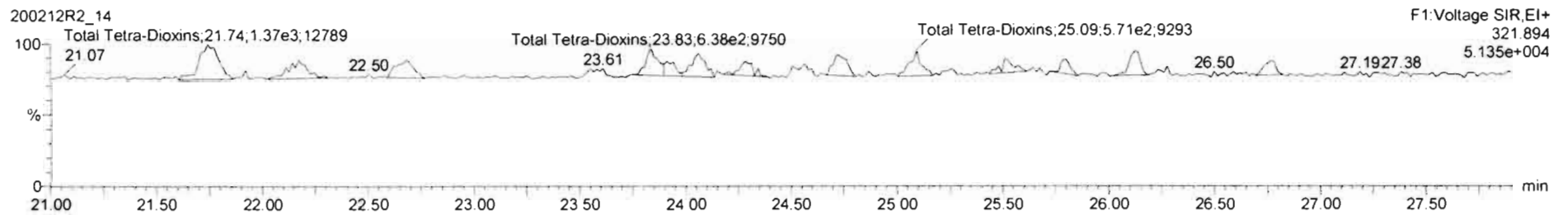
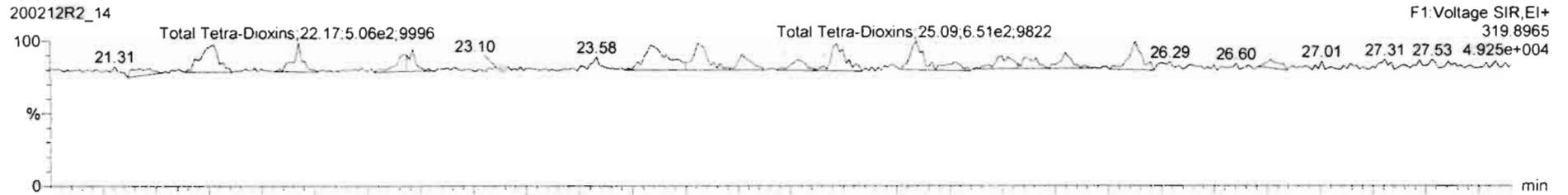
#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.37e6	1.02	NO	0.923	10.018	38.078	38.09	1.000	1.001	10050		21.1	10100
2	7 OCDD	7.55e6	0.88	NO	0.975	10.018	41.112	41.11	1.000	1.000	67006		16.4	67000
3	23 13C-1,2,3,4,6,7,8-HpCDD	2.95e4	1.09	NO	0.747	10.018	38.148	38.07	1.132	1.130	91.501	45.8	1.47	
4	24 13C-OCDD	4.62e4	0.92	NO	0.707	10.018	41.046	41.11	1.218	1.220	151.47	37.9	1.28	
5	35 37Cl-2,3,7,8-TCDD	2.44e4			1.18	10.018	25.800	25.80	1.027	1.027	52.061	65.2	0.857	
6	36 13C-1,2,3,4-TCDD	7.94e4	0.79	NO	1.00	10.018	25.110	25.12	1.000	1.000	199.65	100	4.36	
7	37 13C-1,2,3,4-TCDF	1.31e5	0.78	NO	1.00	10.018	23.370	23.40	1.000	1.000	199.65	100	4.53	
8	38 13C-1,2,3,4,6,9-HxCDF	8.62e4	0.52	NO	1.00	10.018	33.710	33.70	1.000	1.000	199.65	100	1.75	

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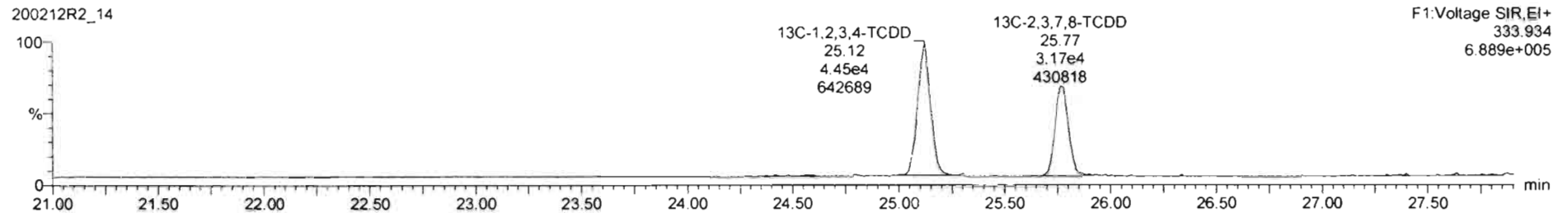
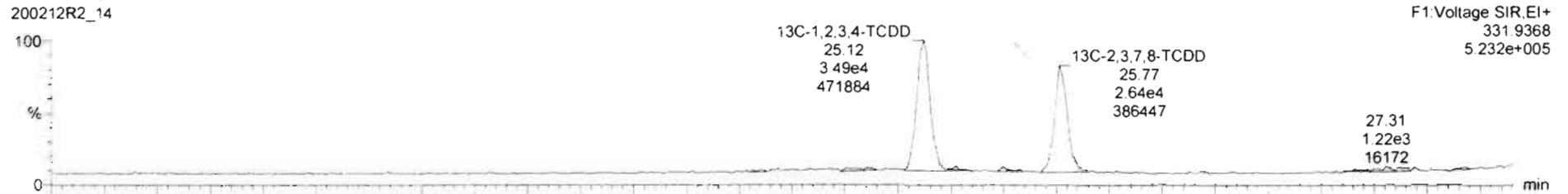
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2,3,7,8-TCDD



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



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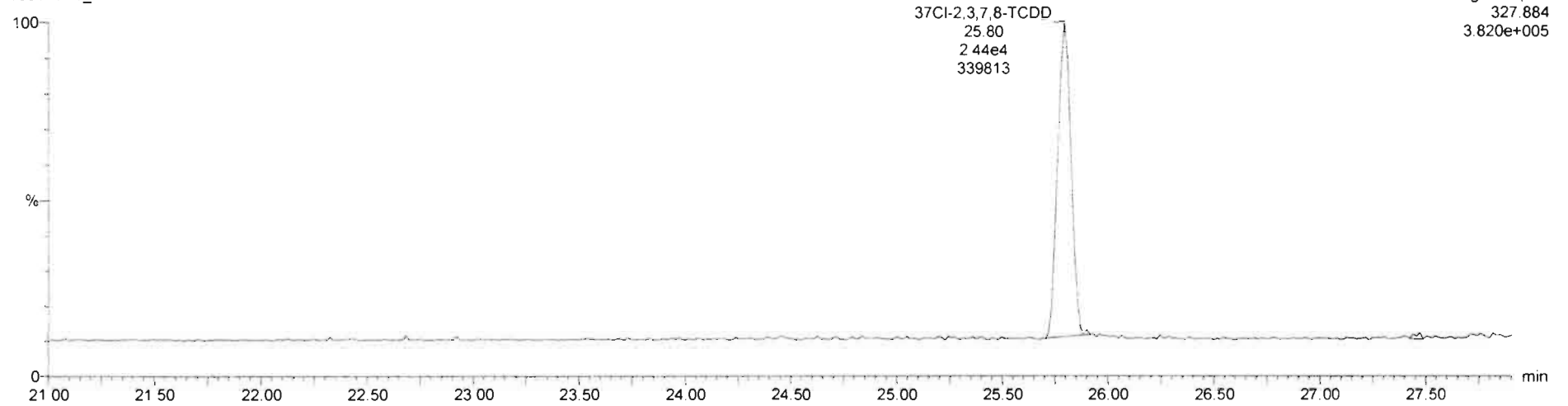
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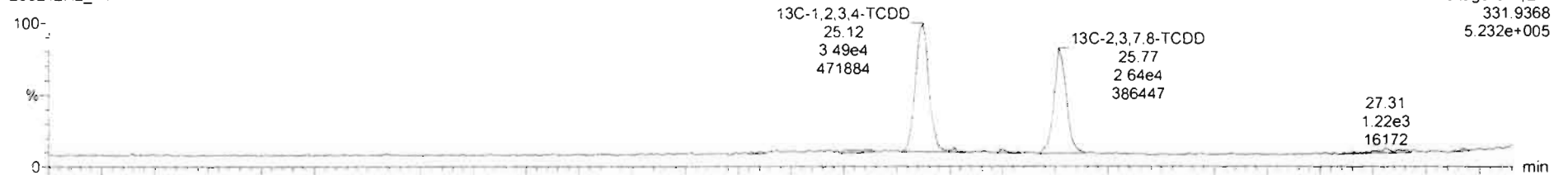
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200212R2_14

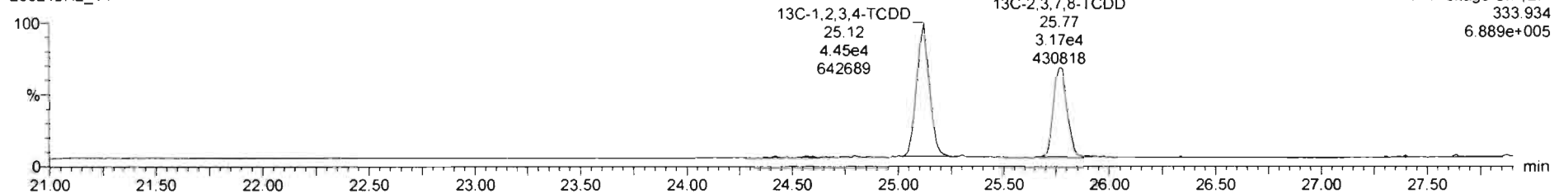


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200212R2_14



200212R2_14

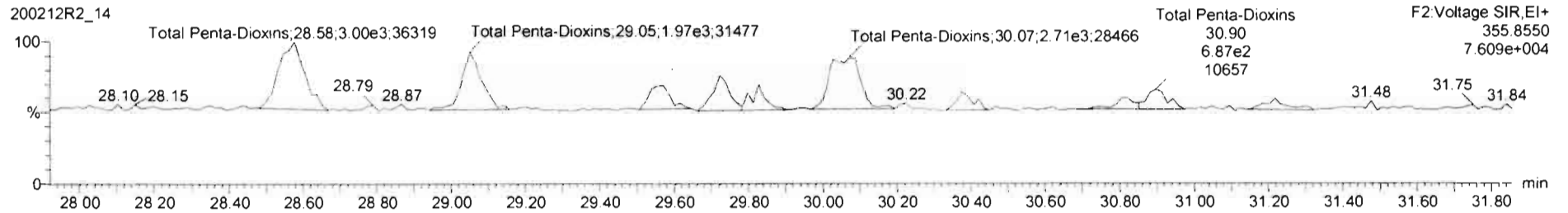
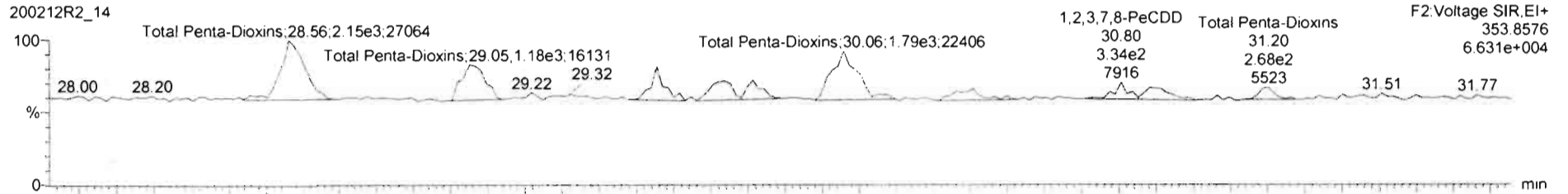


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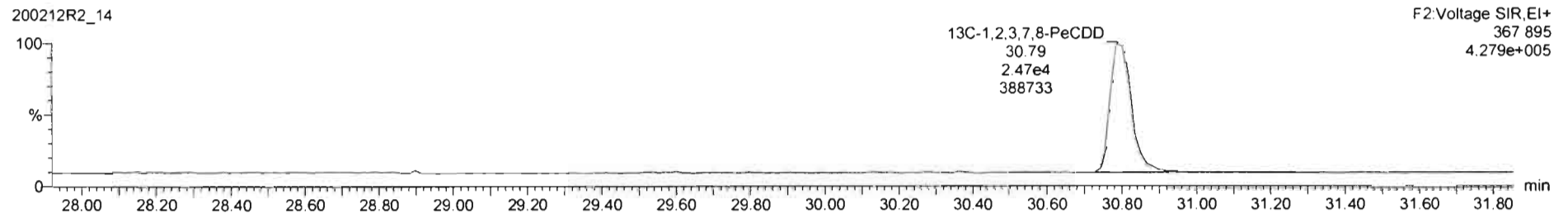
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1,2,3,7,8-PeCDD



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

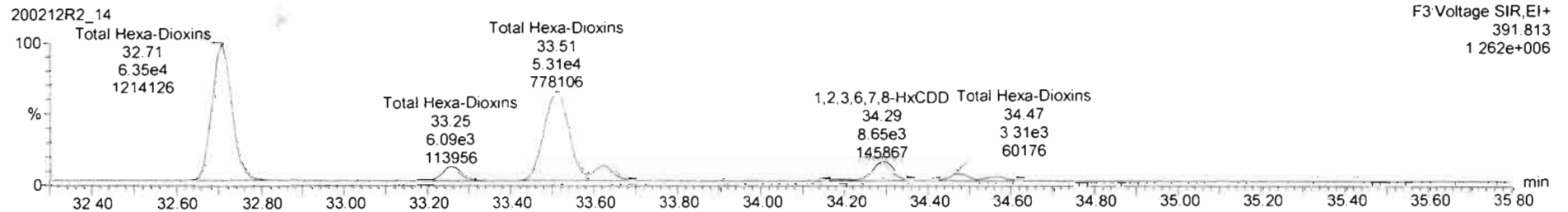
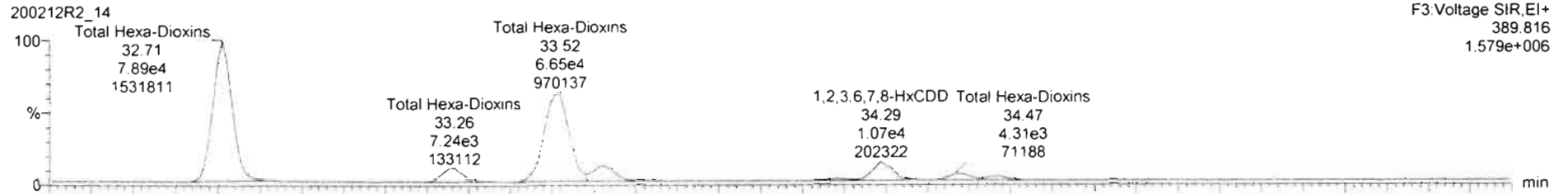


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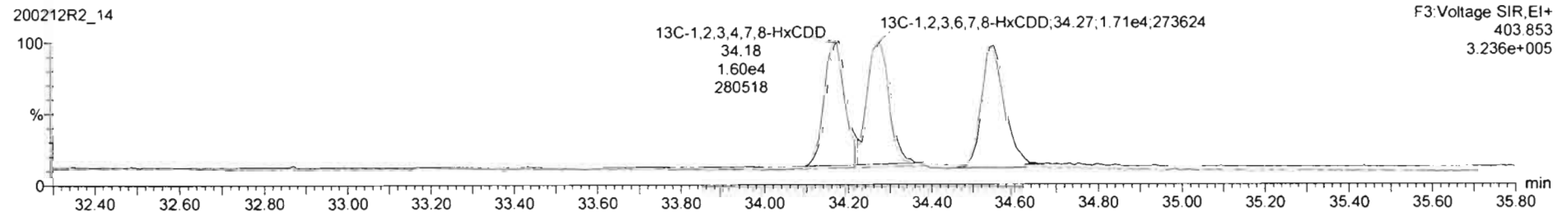
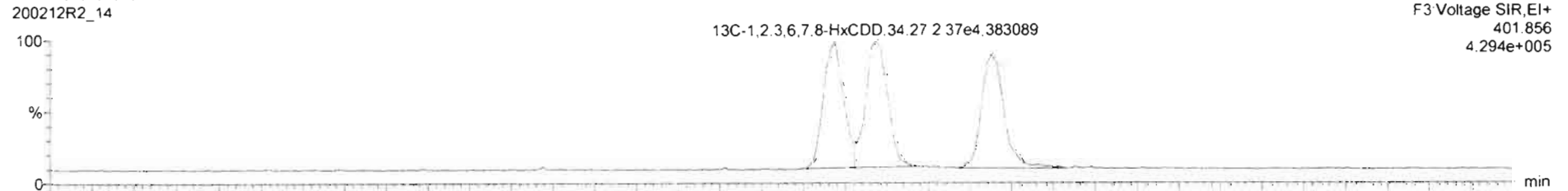
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1,2,3,4,7,8-HxCDD



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



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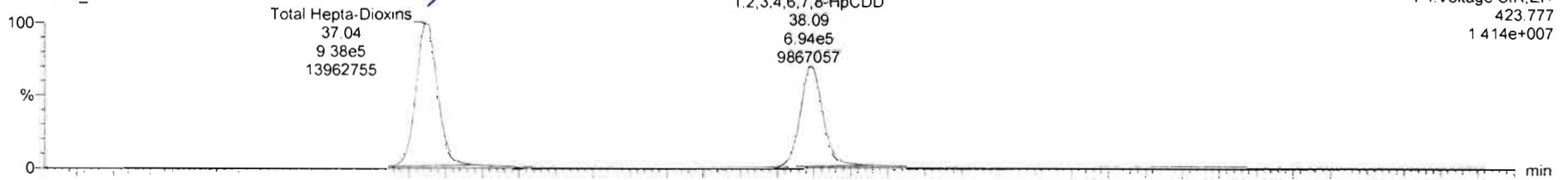
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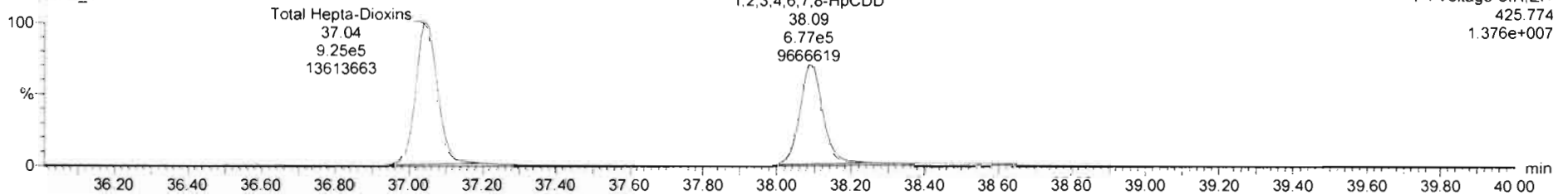
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200212R2_14

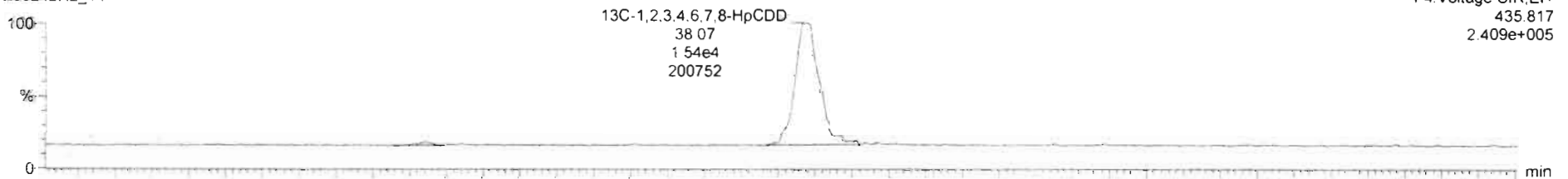


200212R2_14

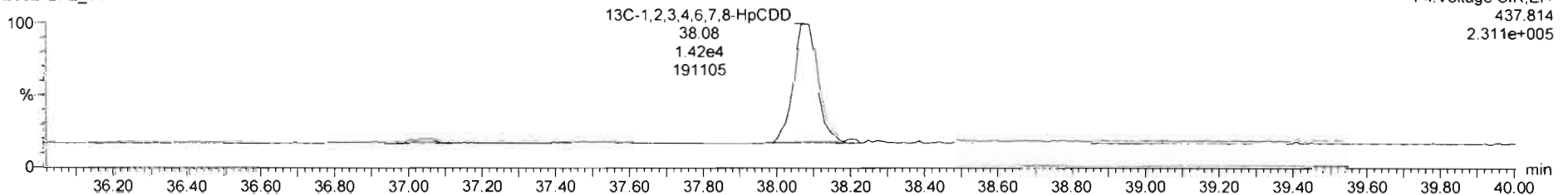


13C-1,2,3,4,6,7,8-HpCDD

200212R2_14



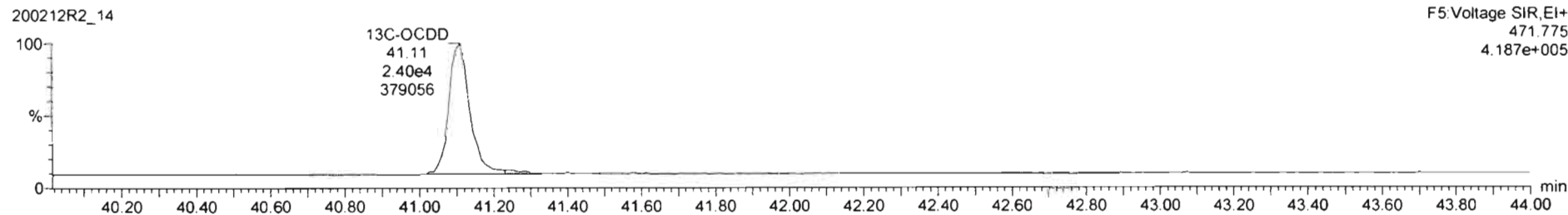
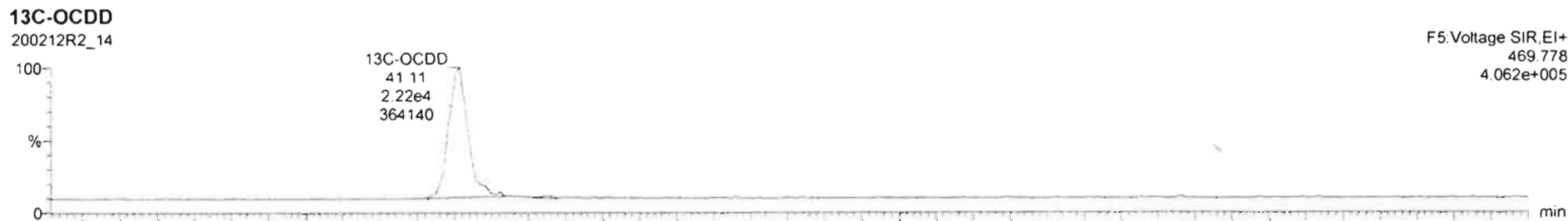
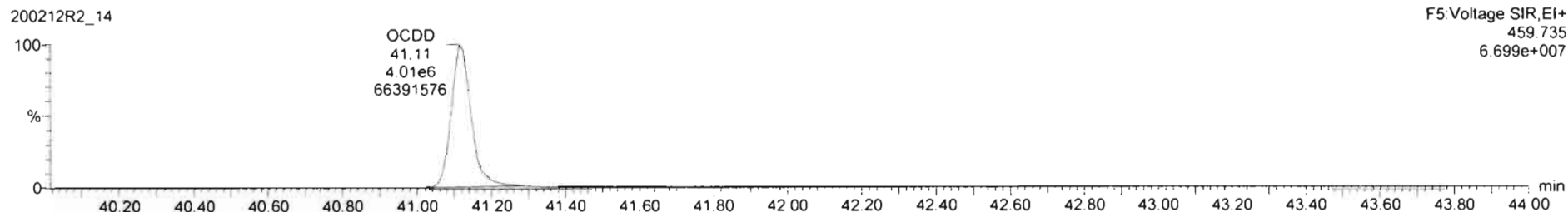
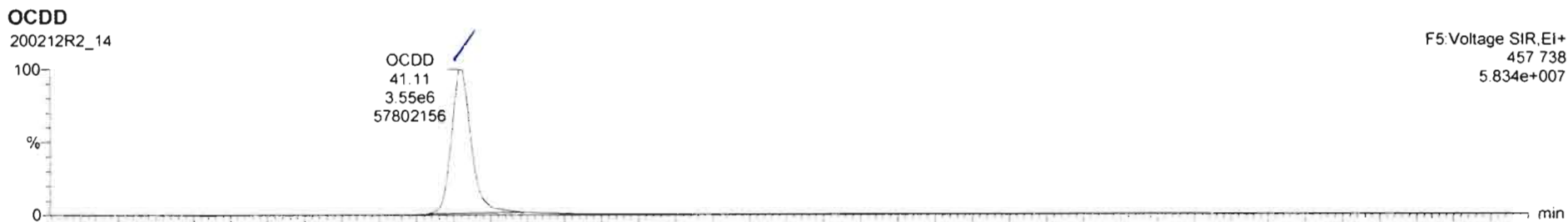
200212R2_14



Dataset: Untitled

Last Altered: Thursday, February 13, 2020 07:25:30 Pacific Standard Time
Printed: Thursday, February 13, 2020 07:30:03 Pacific Standard Time

Name: 200212R2_14, Date: 13-Feb-2020, Time: 00:29:29, ID: 1903738-07@20X PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016



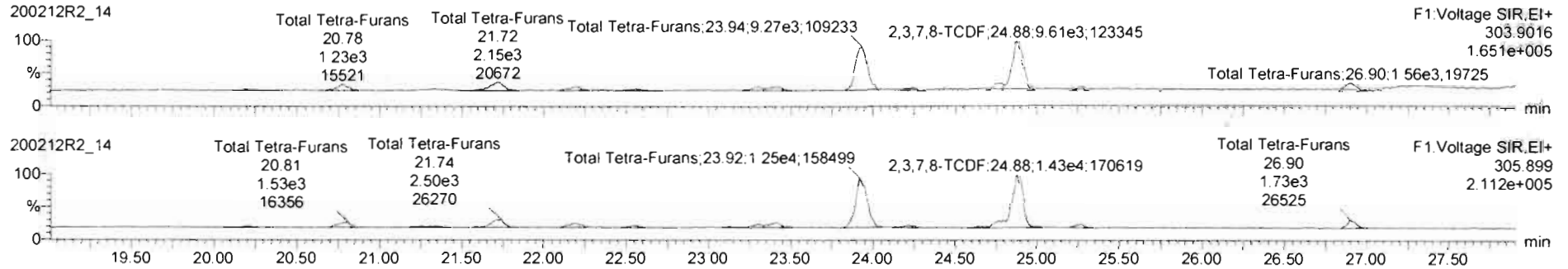
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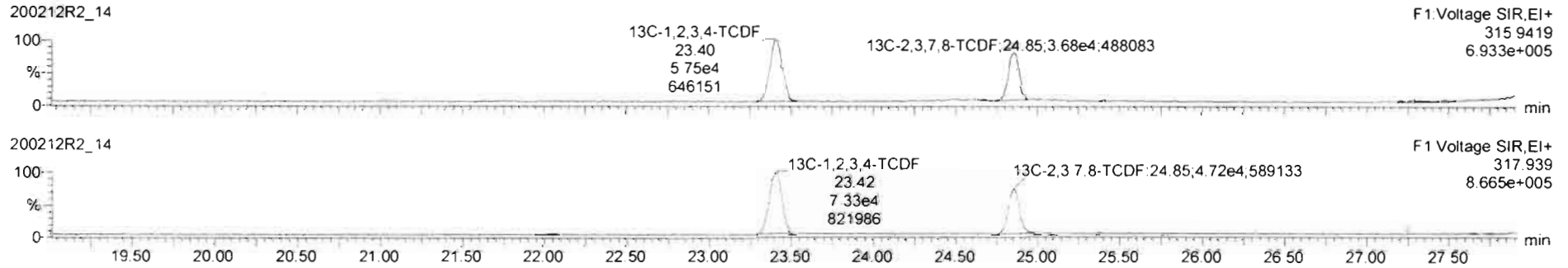
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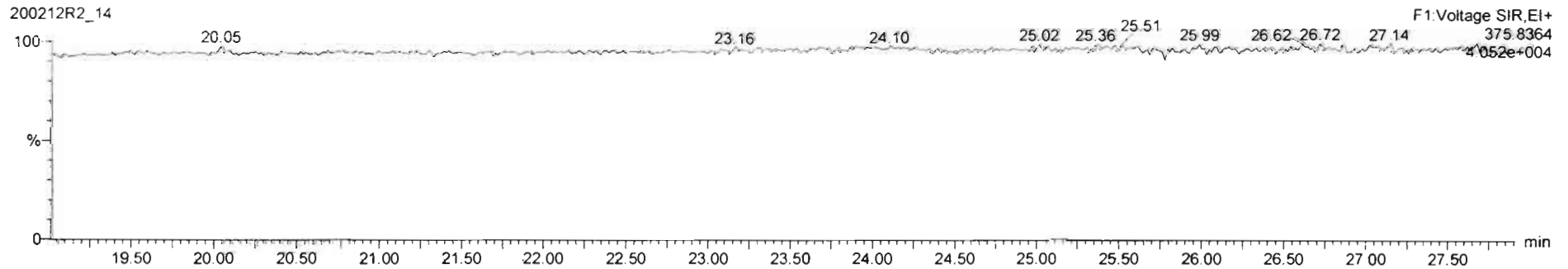
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

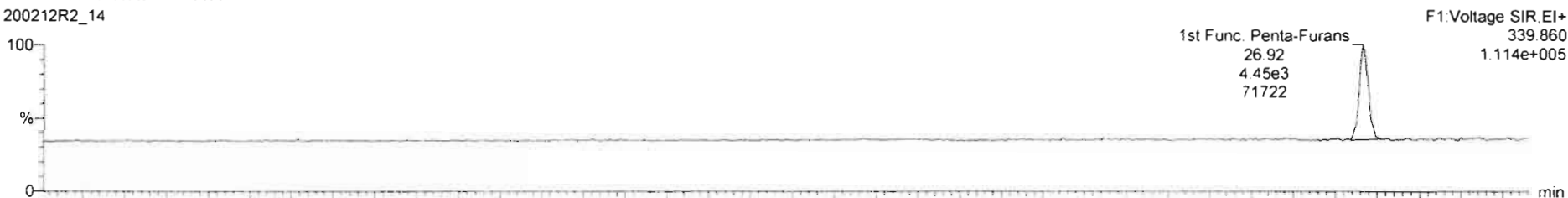
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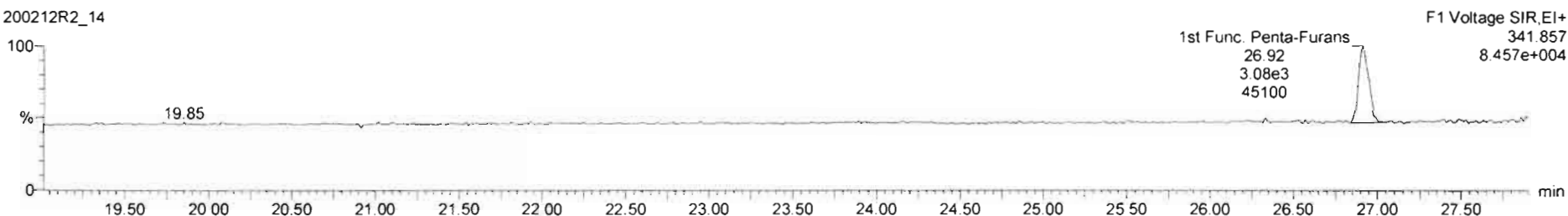
Name: 200212R2_14, Date: 13-Feb-2020, Time: 00:29:29, ID: 1903738-07@20X PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

1st Func. Penta-Furans

200212R2_14

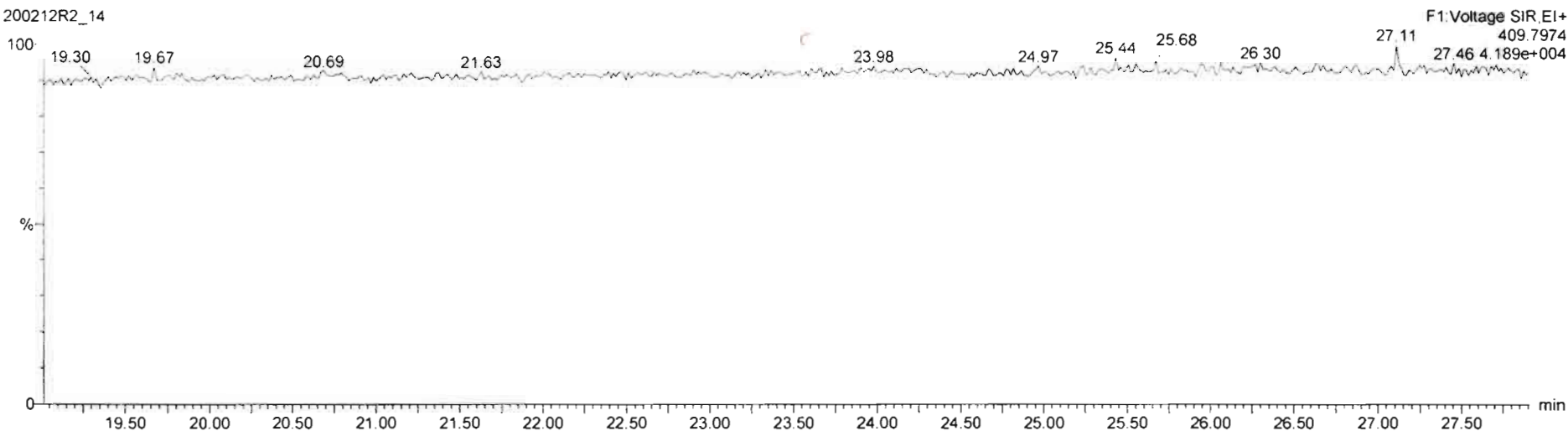


200212R2_14



DPE6

200212R2_14



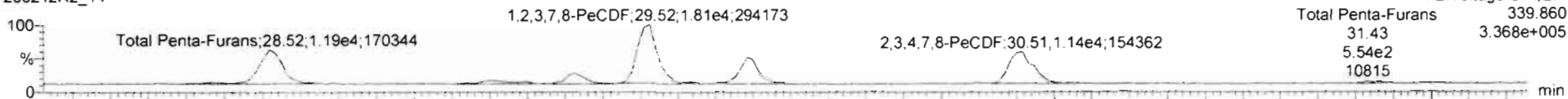
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Last Altered: Thursday, February 13, 2020 07:25:30 Pacific Standard Time
Printed: Thursday, February 13, 2020 07:30:03 Pacific Standard Time

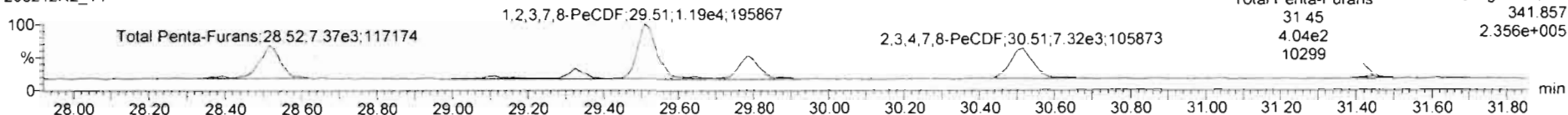
Name: 200212R2_14, Date: 13-Feb-2020, Time: 00:29:29, ID: 1903738-07@20X PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

1,2,3,7,8-PeCDF

200212R2_14



200212R2_14

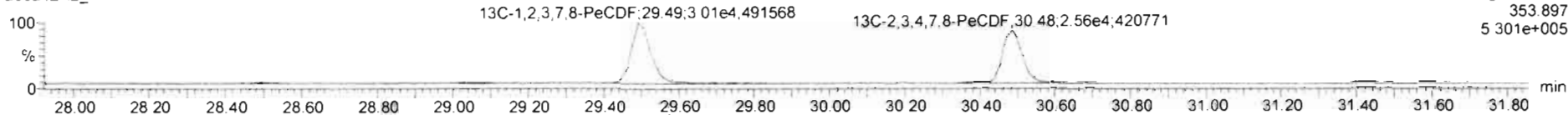


13C-1,2,3,7,8-PeCDF

200212R2_14

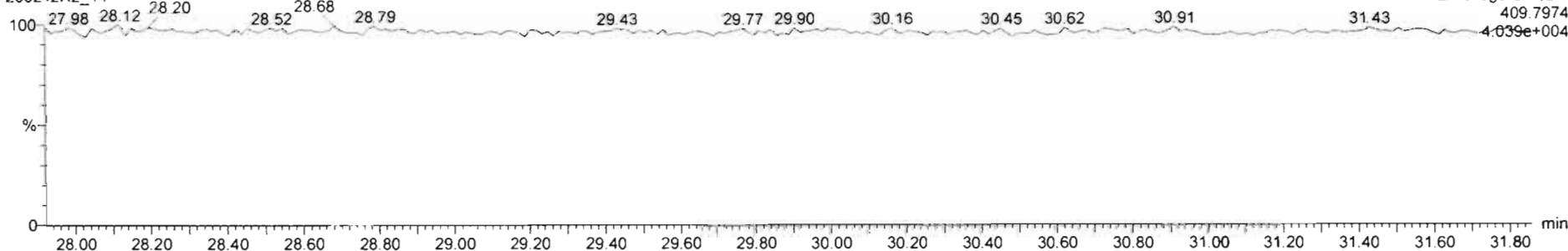


200212R2_14



DPE2

200212R2_14

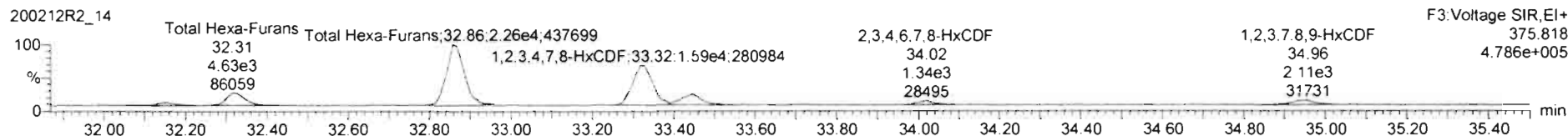
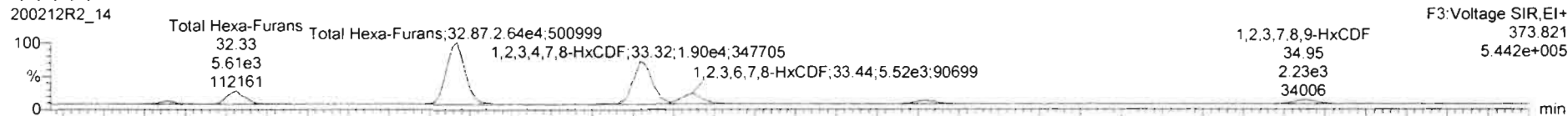


Dataset: Untitled

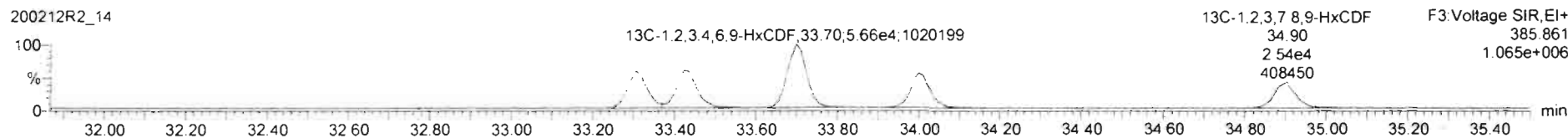
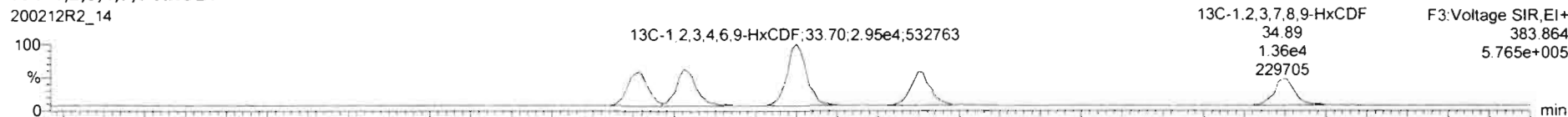
Last Altered: Thursday, February 13, 2020 07:25:30 Pacific Standard Time
Printed: Thursday, February 13, 2020 07:30:03 Pacific Standard Time

Name: 200212R2_14, Date: 13-Feb-2020, Time: 00:29:29, ID: 1903738-07@20X PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

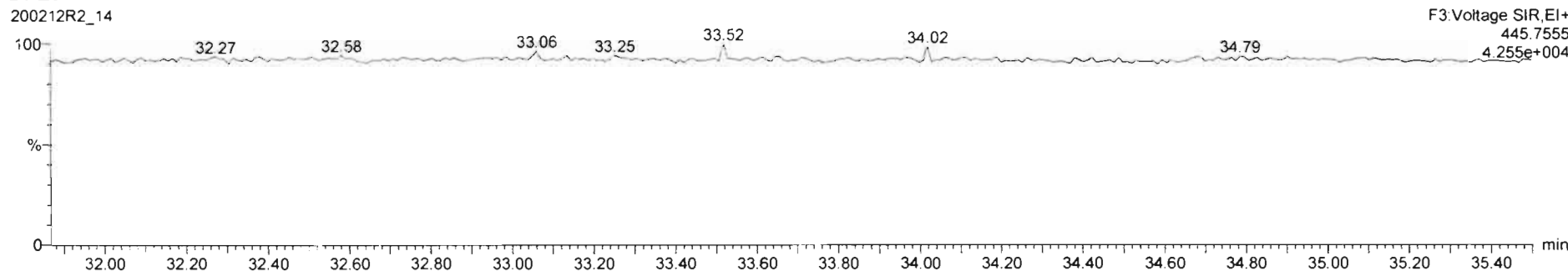
1,2,3,4,7,8-HxCDF



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



DPE3

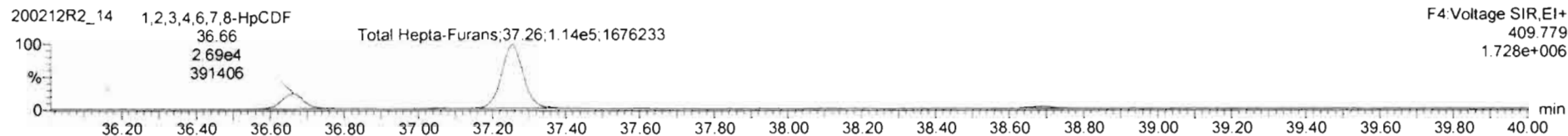
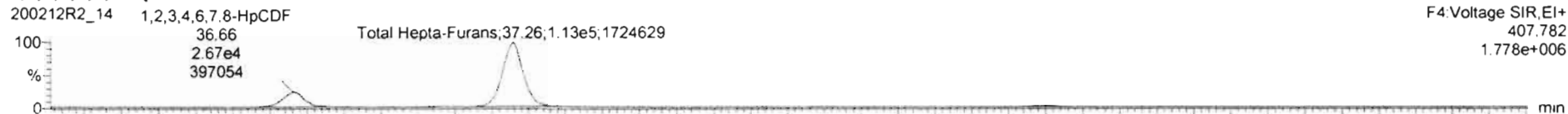


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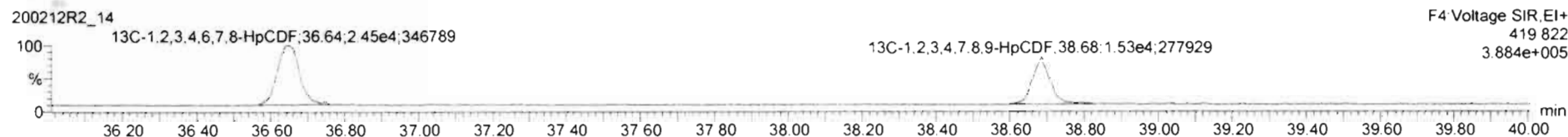
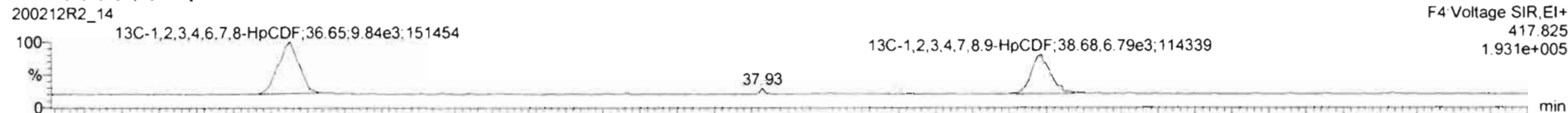
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Name: 200212R2_14, Date: 13-Feb-2020, Time: 00:29:29, ID: 1903738-07@20X PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

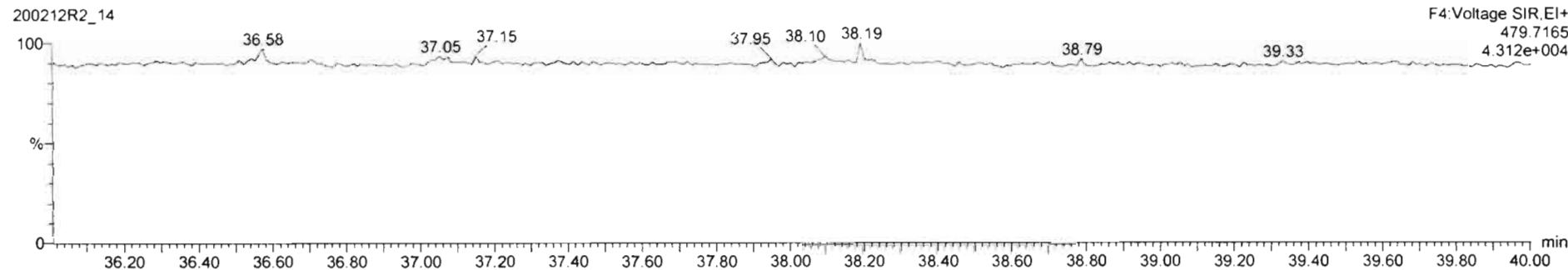
1,2,3,4,6,7,8-HpCDF



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



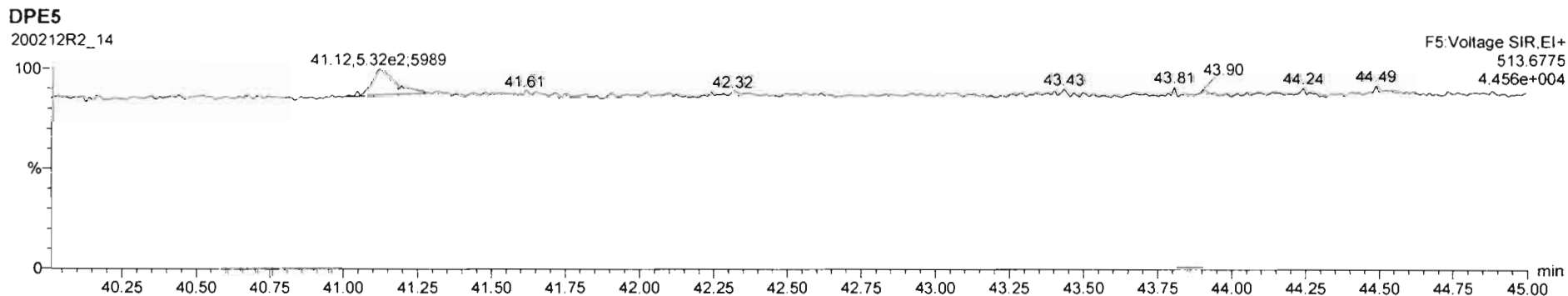
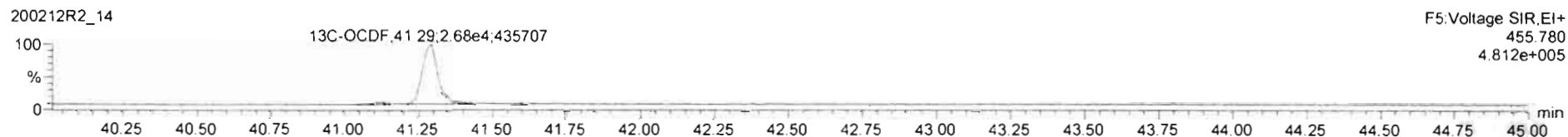
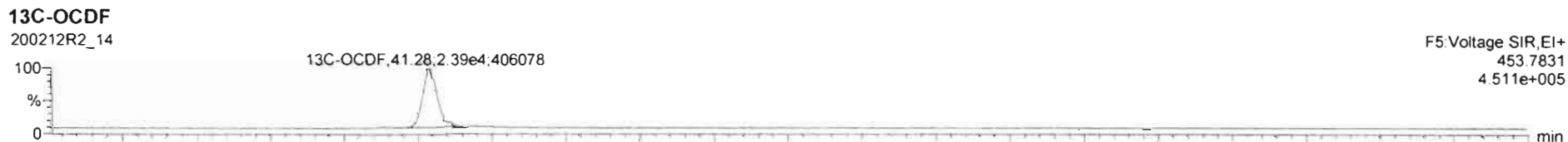
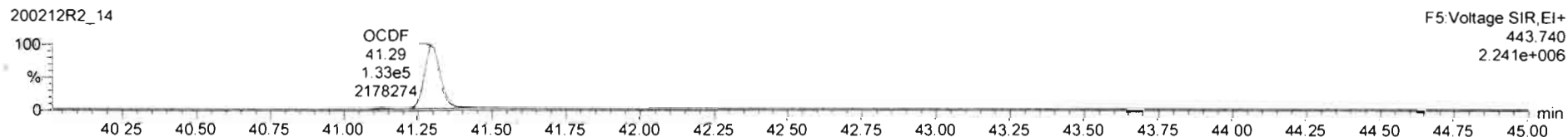
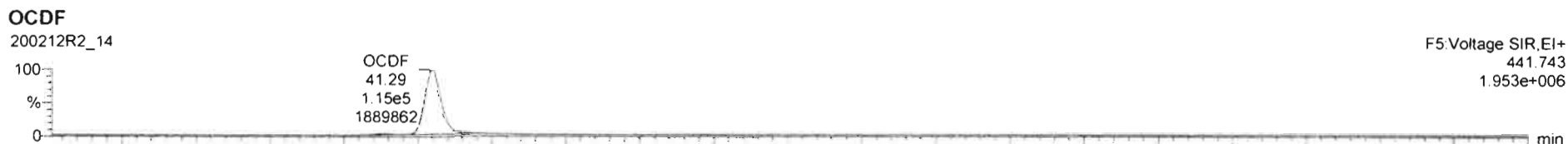
DPE4



Dataset: Untitled

Last Altered: Thursday, February 13, 2020 07:25:30 Pacific Standard Time
Printed: Thursday, February 13, 2020 07:30:03 Pacific Standard Time

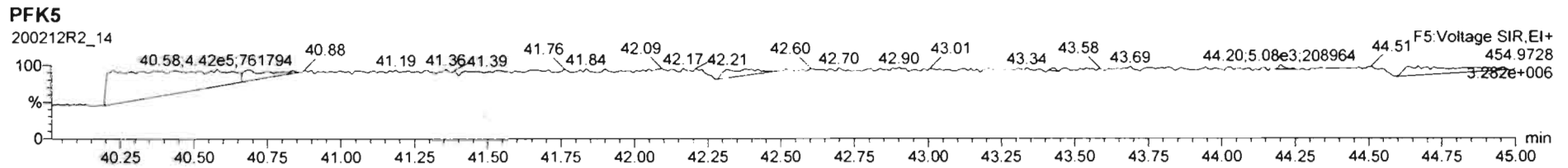
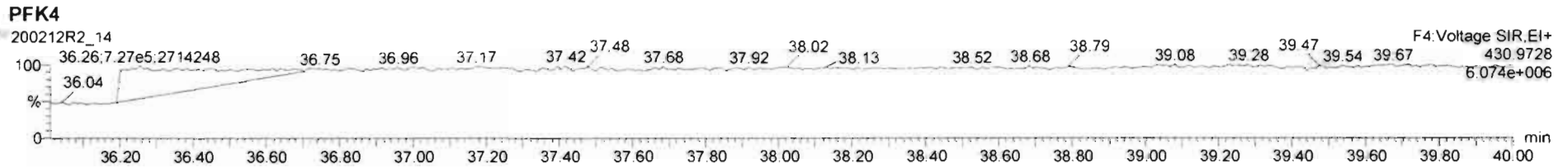
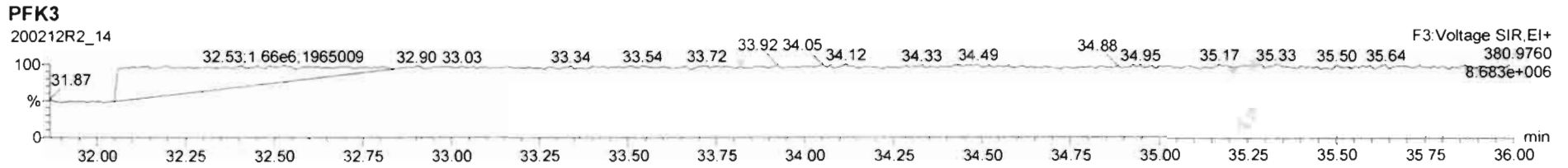
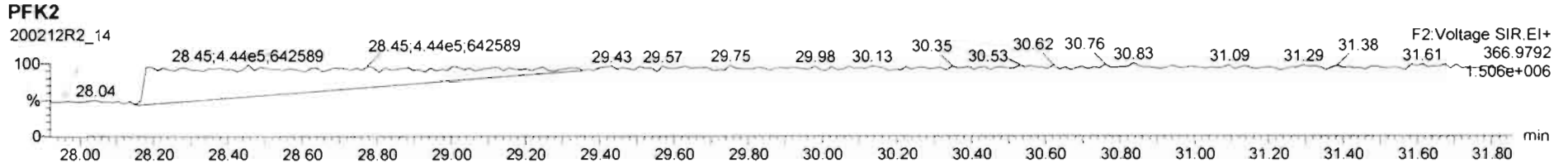
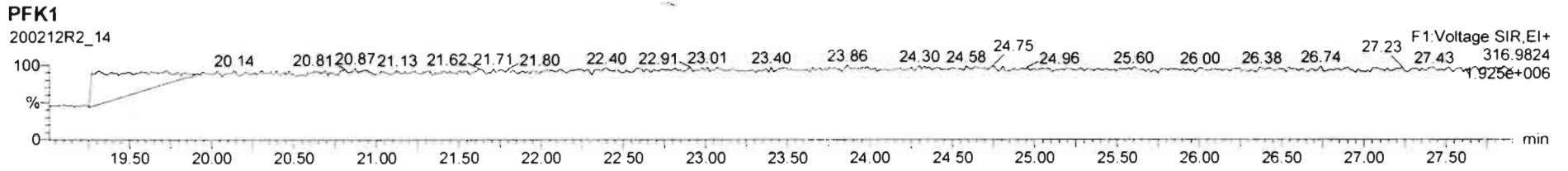
Name: 200212R2_14, Date: 13-Feb-2020, Time: 00:29:29, ID: 1903738-07@20X PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016



Dataset: Untitled

Last Altered: Thursday, February 13, 2020 07:25:30 Pacific Standard Time
Printed: Thursday, February 13, 2020 07:30:03 Pacific Standard Time

Name: 200212R2_14, Date: 13-Feb-2020, Time: 00:29:29, ID: 1903738-07@20X PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016



Dataset: U:\VG12.PRO\Results\200211R2\200211R2-12.qld

Last Altered: Friday, February 14, 2020 08:24:40 Pacific Standard Time

Printed: Friday, February 14, 2020 08:32:25 Pacific Standard Time

Handwritten: May 02-14-2020
E*: see dilution
E*: see dilution

Handwritten: 01/03/10/2020

Method: Untitled 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_12, Date: 12-Feb-2020, Time: 00:36:46, ID: 1903738-08 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	6403.913	0.620	YES	0.988	9.998	26.10	26.08	1.00	1.00	NO	1.428		0.120	1.256
2	2 1,2,3,7,8-PeCDD	12303.577	0.628	NO	0.972	9.998	30.92	30.91	1.00	1.00	NO	2.652		0.143	2.652
3	3 1,2,3,4,7,8-HxCDD	48352.749	1.103	NO	1.07	9.998	34.31	34.34	1.00	1.00	NO	11.89		0.698	11.89
4	4 1,2,3,6,7,8-HxCDD	264027.829	1.245	NO	0.921	9.998	34.40	34.41	1.00	1.00	NO	78.00		0.749	78.00
5	5 1,2,3,7,8,9-HxCDD	72270.683	1.202	NO	0.918	9.998	34.70	34.68	1.00	1.00	NO	20.27		0.829	20.27
6	6 1,2,3,4,6,7,8-HpCDD	17177378....	1.016	NO	0.923	9.998	38.19	38.21	1.00	1.00	NO	5181	E* 03-12-2020	3.02	5181
7	7 OCDD	72320052....	0.876	NO	0.975	9.998	41.52	41.53	1.00	1.00	NO	32570	E*	3.93	32570
8	8 2,3,7,8-TCDF	152040.793	0.753	NO	0.802	9.998	25.18	25.17	1.00	1.00	NO	32.08	(21.8)	0.150	32.08
9	9 1,2,3,7,8-PeCDF	226871.680	1.557	NO	0.907	9.998	29.68	29.68	1.00	1.00	NO	34.22		0.161	34.22
10	10 2,3,4,7,8-PeCDF	189217.914	1.548	NO	0.952	9.998	30.64	30.64	1.00	1.00	NO	30.42		0.164	30.42
11	11 1,2,3,4,7,8-HxCDF	215403.375	1.178	NO	0.862	9.998	33.41	33.42	1.00	1.00	NO	50.57		0.236	50.57
12	12 1,2,3,6,7,8-HxCDF	58096.295	1.140	NO	0.841	9.998	33.54	33.54	1.00	1.00	NO	12.93		0.257	12.93
13	13 2,3,4,6,7,8-HxCDF	36222.208	1.227	NO	0.898	9.998	34.15	34.13	1.00	1.00	NO	8.956		0.287	8.956
14	14 1,2,3,7,8,9-HxCDF	5969.022	0.629	YES	0.858	9.998	35.00	35.01	1.00	1.00	NO	1.277		0.266	1.239
15	15 1,2,3,4,6,7,8-HpCDF	634369.781	0.998	NO	0.851	9.998	36.79	36.78	1.00	1.00	NO	208.5		0.648	208.5
16	16 1,2,3,4,7,8,9-HpCDF	45497.355	1.033	NO	0.980	9.998	38.79	38.79	1.00	1.00	NO	18.61		0.908	18.61
17	17 OCDF	2425368.0...	0.888	NO	0.806	9.998	41.70	41.71	1.00	1.00	NO	1142		0.979	1142
18	18 13C-2,3,7,8-TCDD	908240.532	0.809	NO	1.20	9.998	26.04	26.07	1.03	1.03	NO	74.14	37.1	0.149	
19	19 13C-1,2,3,7,8-PeCDD	954689.500	0.637	NO	0.967	9.998	30.85	30.90	1.22	1.22	NO	96.62	48.3	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	759558.469	1.336	NO	0.874	9.998	34.27	34.30	1.01	1.01	NO	81.38	40.7	0.243	
21	21 13C-1,2,3,6,7,8-HxCDD	735106.125	1.263	NO	1.05	9.998	34.37	34.40	1.02	1.02	NO	65.82	32.9	0.203	
22	22 13C-1,2,3,7,8,9-HxCDD	776601.344	1.272	NO	0.974	9.998	34.67	34.67	1.03	1.03	NO	74.63	37.3	0.218	
23	23 13C-1,2,3,4,6,7,8-HpCDD	718583.250	1.041	NO	0.747	9.998	38.26	38.18	1.13	1.13	NO	90.04	45.0	0.231	
24	24 13C-OCDD	911589.907	0.875	NO	0.707	9.998	41.16	41.52	1.22	1.23	NO	120.8	30.2	0.198	
25	25 13C-2,3,7,8-TCDF	1182188.7...	0.784	NO	1.07	9.998	25.21	25.15	0.99	0.99	NO	71.45	35.7	0.327	
26	26 13C-1,2,3,7,8-PeCDF	1461585.2...	1.590	NO	1.00	9.998	29.61	29.66	1.17	1.17	NO	93.94	47.0	0.396	
27	27 13C-2,3,4,7,8-PeCDF	1307553.6...	1.578	NO	0.962	9.998	30.84	30.61	1.21	1.21	NO	87.54	43.8	0.412	
28	28 13C-1,2,3,4,7,8-HxCDF	988111.157	0.510	NO	1.05	9.998	33.39	33.41	0.99	0.99	NO	88.18	44.1	0.228	
29	29 13C-1,2,3,6,7,8-HxCDF	1068245.8...	0.511	NO	1.19	9.998	33.49	33.53	0.99	0.99	NO	84.06	42.0	0.201	
30	30 13C-2,3,4,6,7,8-HxCDF	900787.063	0.519	NO	1.07	9.998	34.10	34.12	1.01	1.01	NO	79.10	39.5	0.225	
31	31 13C-1,2,3,7,8,9-HxCDF	783300.563	0.508	NO	0.922	9.998	35.01	35.00	1.04	1.04	NO	79.52	39.7	0.260	

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-12.qld

Last Altered: Friday, February 14, 2020 08:24:40 Pacific Standard Time

Printed: Friday, February 14, 2020 08:32:25 Pacific Standard Time

Name: 200211R2_12, Date: 12-Feb-2020, Time: 00:36:46, ID: 1903738-08 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

#	Name	Abs.Resp	RA	n/y	RRF	wt./vol.	Pred.RT	RT	Pred.RRT	RRT	Check RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	715092.375	0.444	NO	0.767	9.998	36.77	36.76	1.09	1.09	NO	87.28	43.6	0.287	
33	13C-1,2,3,4,7,8,9-HpCDF	499095.547	0.441	NO	0.552	9.998	38.80	38.79	1.15	1.15	NO	84.61	42.3	0.398	
34	13C-OCDF	1054647.1...	0.839	NO	0.789	9.998	41.40	41.70	1.23	1.23	NO	125.1	31.3	0.213	
35	37Cl-2,3,7,8-TCDD	344354.844			1.18	9.998	26.08	26.09	1.03	1.03	NO	28.64	35.8	0.0365	
36	13C-1,2,3,4-TCDD	2044747.1...	0.810	NO	1.00	9.998	25.11	25.39	1.00	1.00	NO	200.0	100	0.178	
37	13C-1,2,3,4-TCDF	3107192.5...	0.798	NO	1.00	9.998	23.85	23.85	1.00	1.00	NO	200.0	100	0.349	
38	13C-1,2,3,4,6,9-HxCDF	2136507.7...	0.508	NO	1.00	9.998	33.71	33.80	1.00	1.00	NO	200.0	100	0.239	
39	Total Tetra-Dioxins				0.988	9.998	24.62		0.00		NO	31.83		0.130	34.45
40	Total Penta-Dioxins				0.972	9.998	29.96		0.00		NO	61.25		0.143	63.21
41	Total Hexa-Dioxins				0.921	9.998	33.63		0.00		NO	1276		0.796	1276
42	Total Hepta-Dioxins				0.923	9.998	37.64		0.00		NO	11970		3.02	11970
43	Total Tetra-Furans				0.802	9.998	23.61		0.00		NO	136.0		0.150	136.5
44	1st Func. Penta-Furans				0.907	9.998	27.09		0.00		NO	51.93		0.0448	51.93
45	Total Penta-Furans				0.907	9.998	29.27		0.00		NO	143.9		0.166	143.9
46	Total Hexa-Furans				0.898	9.998	33.56		0.00		NO	268.1		0.251	274.6
47	Total Hepta-Furans				0.851	9.998	37.83		0.00		NO	1112		0.812	1112

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-12.qld

Last Altered: Friday, February 14, 2020 08:24:40 Pacific Standard Time

Printed: Friday, February 14, 2020 08:32:41 Pacific Standard Time

Method: Untitled 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_12, Date: 12-Feb-2020, Time: 00:36:46, ID: 1903738-08 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

Tetra-Dioxins

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	39 Total Tetra-Dioxins	2.15e4	9.08e5	0.759	NO	24.62	22.28	4.792	4.792
2	39 Total Tetra-Dioxins	6.71e3	9.08e5	0.781	NO	24.62	22.83	1.495	1.495
3	39 Total Tetra-Dioxins	1.27e4	9.08e5	0.816	NO	24.62	23.13	2.835	2.835
4	39 Total Tetra-Dioxins	3.34e3	9.08e5	0.882	NO	24.62	24.16	0.7448	0.7448
5	39 Total Tetra-Dioxins	2.62e4	9.08e5	0.786	NO	24.62	24.37	5.834	5.834
6	39 Total Tetra-Dioxins	7.80e3	9.08e5	0.737	NO	24.62	24.55	1.738	1.738
7	39 Total Tetra-Dioxins	5.71e3	9.08e5	0.814	NO	24.62	24.82	1.274	1.274
8	39 Total Tetra-Dioxins	1.59e4	9.08e5	0.790	NO	24.62	25.00	3.542	3.542
9	39 Total Tetra-Dioxins	1.26e4	9.08e5	0.749	NO	24.62	25.36	2.818	2.818
10	39 Total Tetra-Dioxins	0.00e0	9.08e5	0.972	YES	24.62	25.51	0.0000	0.4476
11	39 Total Tetra-Dioxins	1.41e4	9.08e5	0.747	NO	24.62	25.80	3.139	3.139
12	39 Total Tetra-Dioxins	0.00e0	9.08e5	0.948	YES	24.62	25.91	0.0000	0.9199
13	1 2,3,7,8-TCDD	6.40e3	9.08e5	0.620	YES	26.10	26.08	0.0000	1.256
14	39 Total Tetra-Dioxins	1.34e4	9.08e5	0.787	NO	24.62	26.39	2.988	2.988
15	39 Total Tetra-Dioxins	2.83e3	9.08e5	0.832	NO	24.62	26.53	0.6299	0.6299

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Name: 200211R2_12, Date: 12-Feb-2020, Time: 00:36:46, ID: 1903738-08 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

Penta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	40 Total Penta-Dioxins	8.41e4	9.55e5	0.620	NO	29.96	28.75	18.13	18.13
2	40 Total Penta-Dioxins	3.46e4	9.55e5	0.638	NO	29.96	29.22	7.446	7.446
3	40 Total Penta-Dioxins	3.45e4	9.55e5	0.622	NO	29.96	29.72	7.443	7.443
4	40 Total Penta-Dioxins	2.28e4	9.55e5	0.599	NO	29.96	29.89	4.918	4.918
5	40 Total Penta-Dioxins	1.71e4	9.55e5	0.615	NO	29.96	29.98	3.685	3.685
6	40 Total Penta-Dioxins	5.76e4	9.55e5	0.641	NO	29.96	30.18	12.41	12.41
7	40 Total Penta-Dioxins	8.38e3	9.55e5	0.636	NO	29.96	30.50	1.806	1.806
8	2 1,2,3,7,8-PeCDD	1.23e4	9.55e5	0.628	NO	30.92	30.91	2.652	2.652
9	40 Total Penta-Dioxins	1.29e4	9.55e5	0.631	NO	29.96	31.00	2.770	2.770
10	40 Total Penta-Dioxins	0.00e0	9.55e5	1.144	YES	29.96	31.23	0.0000	0.1848
11	40 Total Penta-Dioxins	0.00e0	9.55e5	0.723	NO	29.96	31.29	0.0000	1.771

Hexa-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	41 Total Hexa-Dioxins	2.09e6	0.00e0	1.228	NO	33.63	32.82	598.7	598.7
2	41 Total Hexa-Dioxins	1.74e5	0.00e0	1.232	NO	33.63	33.36	49.83	49.83
3	41 Total Hexa-Dioxins	1.67e6	0.00e0	1.238	NO	33.63	33.60	478.2	478.2
4	41 Total Hexa-Dioxins	7.73e4	0.00e0	1.096	NO	33.63	33.73	22.18	22.18
5	3 1,2,3,4,7,8-HxCDD	4.84e4	7.60e5	1.103	NO	34.31	34.34	11.89	11.89
6	41 Total Hexa-Dioxins	5.96e4	0.00e0	1.283	NO	33.63	34.59	17.10	17.10
7	5 1,2,3,7,8,9-HxCDD	7.23e4	7.77e5	1.202	NO	34.70	34.68	20.27	20.27
8	4 1,2,3,6,7,8-HxCDD	2.64e5	7.35e5	1.245	NO	34.40	34.41	78.00	78.00

Hepta-Dioxins

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	42 Total Hepta-Dioxins	2.25e7	7.19e5	1.019	NO	37.64	37.16	6786	6786
2	6 1,2,3,4,6,7,8-HpCDD	1.72e7	7.19e5	1.016	NO	38.19	38.21	5181	5181

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Tetra-Furans

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	43 Total Tetra-Furans	1.52e3	1.18e6	0.752	NO	23.61	20.03	0.3206	0.3206
2	43 Total Tetra-Furans	2.54e4	1.18e6	0.785	NO	23.61	20.57	5.359	5.359
3	43 Total Tetra-Furans	1.31e5	1.18e6	0.752	NO	23.61	21.23	27.65	27.65
4	43 Total Tetra-Furans	1.23e4	1.18e6	0.795	NO	23.61	21.66	2.592	2.592
5	43 Total Tetra-Furans	6.16e3	1.18e6	0.847	NO	23.61	21.77	1.299	1.299
6	43 Total Tetra-Furans	3.56e4	1.18e6	0.755	NO	23.61	22.22	7.516	7.516
7	43 Total Tetra-Furans	2.68e4	1.18e6	0.712	NO	23.61	22.85	5.654	5.654
8	43 Total Tetra-Furans	6.42e3	1.18e6	0.843	NO	23.61	23.01	1.355	1.355
9	43 Total Tetra-Furans	1.24e4	1.18e6	0.717	NO	23.61	23.62	2.620	2.620
10	43 Total Tetra-Furans	7.70e4	1.18e6	0.756	NO	23.61	23.82	16.25	16.25
11	43 Total Tetra-Furans	1.11e5	1.18e6	0.745	NO	23.61	24.36	23.37	23.37
12	43 Total Tetra-Furans	5.91e3	1.18e6	0.718	NO	23.61	24.51	1.247	1.247
13	43 Total Tetra-Furans	4.05e3	1.18e6	0.739	NO	23.61	24.70	0.8550	0.8550
14	43 Total Tetra-Furans	6.51e3	1.18e6	0.786	NO	23.61	24.94	1.374	1.374
15	43 Total Tetra-Furans	1.68e4	1.18e6	0.789	NO	23.61	25.06	3.549	3.549
16	8 2,3,7,8-TCDF	1.52e5	1.18e6	0.753	NO	25.18	25.17	32.08	32.08
17	43 Total Tetra-Furans	1.23e4	1.18e6	0.780	NO	23.61	25.54	2.587	2.587
18	43 Total Tetra-Furans	0.00e0	1.18e6	0.828	NO	23.61	25.76	0.0000	0.2916
19	43 Total Tetra-Furans	0.00e0	1.18e6	0.897	YES	23.61	26.63	0.0000	0.2700
20	43 Total Tetra-Furans	1.48e3	1.18e6	0.861	NO	23.61	26.80	0.3133	0.3133

Penta-Furans function 1

	# Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	44 1st Func. Penta-Fura...	3.26e5	0.00e0	1.606	NO	27.09	27.23	51.93	51.93

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Penta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	45 Total Penta-Furans	1.62e4	0.00e0	1.533	NO	29.27	28.55	2.578	2.578
2	45 Total Penta-Furans	2.56e5	0.00e0	1.551	NO	29.27	28.70	40.79	40.79
3	45 Total Penta-Furans	1.73e3	0.00e0	1.564	NO	29.27	29.08	0.2747	0.2747
4	45 Total Penta-Furans	8.94e4	0.00e0	1.551	NO	29.27	29.28	14.24	14.24
5	45 Total Penta-Furans	2.80e4	0.00e0	1.572	NO	29.27	29.49	4.462	4.462
6	9 1,2,3,7,8-PeCDF	2.27e5	1.46e6	1.557	NO	29.68	29.68	34.22	34.22
7	45 Total Penta-Furans	1.00e5	0.00e0	1.569	NO	29.27	29.93	15.98	15.98
8	45 Total Penta-Furans	1.43e3	0.00e0	1.429	NO	29.27	30.39	0.2277	0.2277
9	45 Total Penta-Furans	4.70e3	0.00e0	1.699	NO	29.27	30.53	0.7484	0.7484
10	10 2,3,4,7,8-PeCDF	1.89e5	1.31e6	1.548	NO	30.64	30.64	30.42	30.42

Hexa-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	46 Total Hexa-Furans	5.58e4	0.00e0	1.199	NO	33.56	32.28	13.30	13.30
2	46 Total Hexa-Furans	1.98e5	0.00e0	1.217	NO	33.56	32.43	47.09	47.09
3	46 Total Hexa-Furans	4.09e3	0.00e0	1.304	NO	33.56	32.77	0.9753	0.9753
4	46 Total Hexa-Furans	5.64e5	0.00e0	1.199	NO	33.56	32.96	134.3	134.3
5	11 1,2,3,4,7,8-HxCDF	2.15e5	9.88e5	1.178	NO	33.41	33.42	50.57	50.57
6	12 1,2,3,6,7,8-HxCDF	5.81e4	1.07e6	1.140	NO	33.54	33.54	12.93	12.93
7	46 Total Hexa-Furans	0.00e0	0.00e0	0.936	YES	33.56	33.83	0.0000	0.6251
8	13 2,3,4,6,7,8-HxCDF	3.62e4	9.01e5	1.227	NO	34.15	34.13	8.956	8.956
9	14 1,2,3,7,8,9-HxCDF	5.97e3	7.83e5	0.629	YES	35.00	35.01	0.0000	1.239
10	46 Total Hexa-Furans	0.00e0	0.00e0	1.532	YES	33.56	35.04	0.0000	4.666

Hepta-Furans

#	Name	Area	IS Area	RA	Y/N	Pred.RT	RT	Conc.	EMPC
1	15 1,2,3,4,6,7,8-HpCDF	6.34e5	7.15e5	0.998	NO	36.79	36.78	208.5	208.5
2	47 Total Hepta-Furans	2.28e6	0.00e0	0.994	NO	37.83	37.36	882.2	882.2
3	47 Total Hepta-Furans	6.66e3	0.00e0	0.976	NO	37.83	38.20	2.580	2.580
4	16 1,2,3,4,7,8,9-HpCDF	4.55e4	4.99e5	1.033	NO	38.79	38.79	18.61	18.61

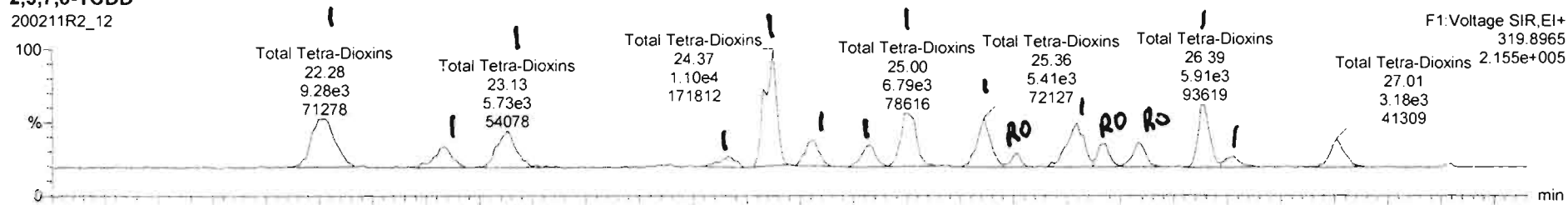
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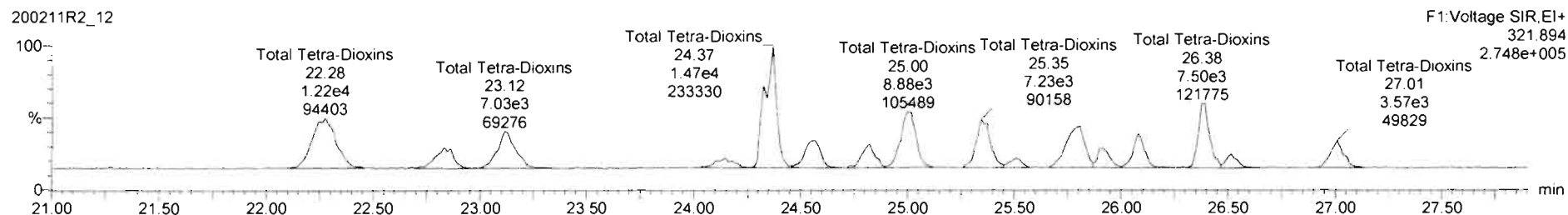
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2,3,7,8-TCDD

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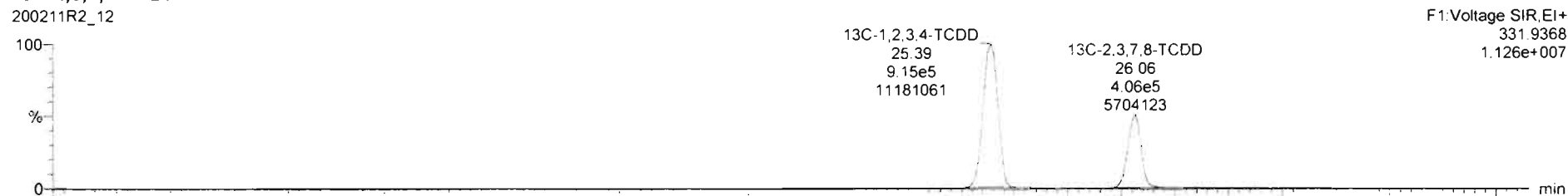


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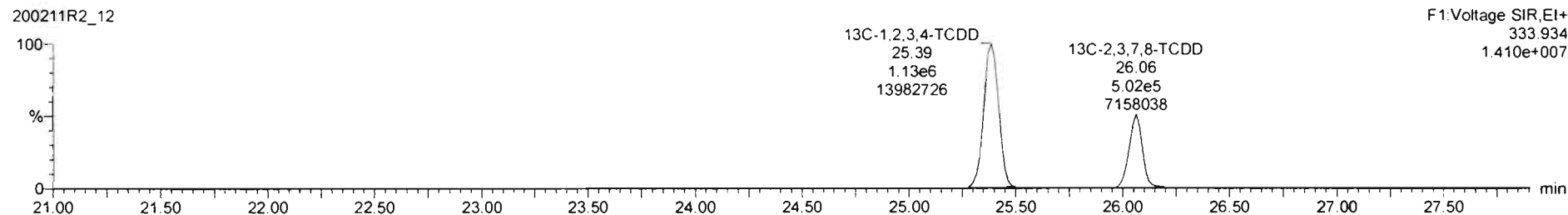


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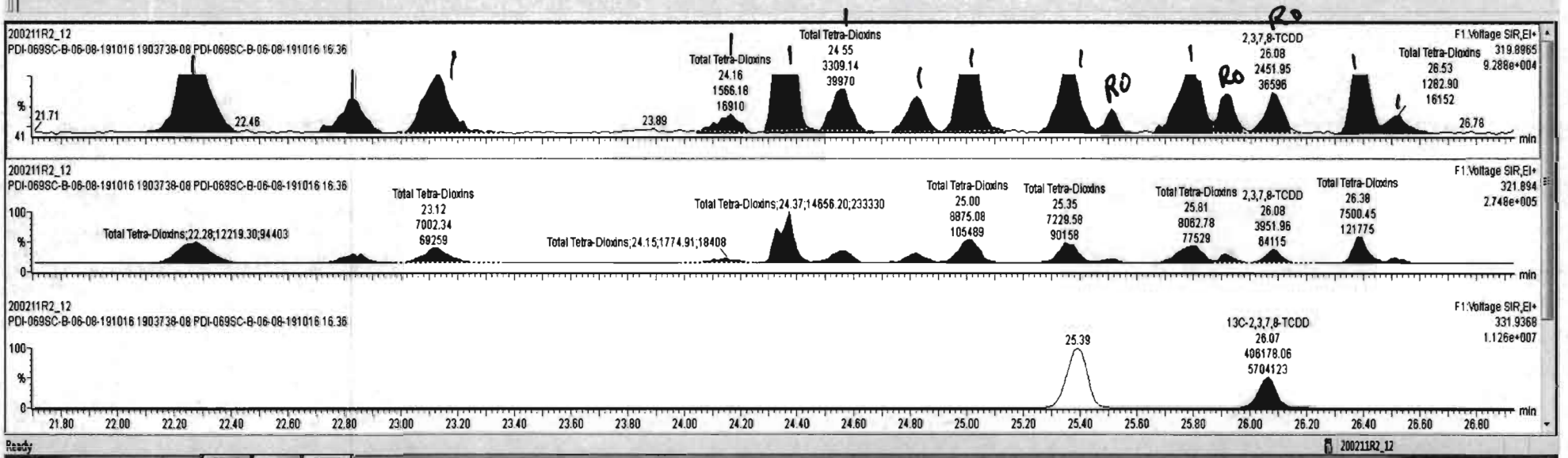
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#	Name	Resp	RA	n/y	R/R	w/Aol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	13C-1,2,3,4,8,9-HxCDF	2.14e6	0.51	NO	1.0000	9.998	33.71	33.80	1.000	1.000	NO	200.0	100	0.239	
39	Total Tetra-Dioxins				0.9991	9.998	24.82		0.000		NO	31.83		0.130	34.45
40	Total Penta-Dioxins				0.9723	9.998	29.96		0.000		NO	61.25		0.143	63.21
41	Total Hexa-Dioxins				0.9211	9.998	33.63		0.000		NO	1180		0.790	1180
42	Total Hepta-Dioxins				0.9231	9.998	37.84		0.000		NO	11970		3.02	11980
43	Total Tetra-Furans				0.8020	9.998	23.61		0.000		NO	137.2		0.150	138.3
44	1st Func. Penta-Furans				0.9074	9.998	27.09		0.000		NO	51.93		0.0448	51.93
45	Total Penta-Furans				0.9074	9.998	29.27		0.000		NO	141.1		0.186	142.2
46	Total Hexa-Furans				0.8982	9.998	33.56		0.000		NO	274.4		0.251	275.0
47	Total Hepta-Furans				0.8511	9.998	37.83		0.000		NO	1090		0.812	1092

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	22.28	9.279e3	1.222e4	0.770	0.76	NO	4.7924	4.7924
2	39 Total Tetra-Dioxins	24.62	22.83	2.941e3	3.768e3	0.770	0.78	NO	1.4954	1.4954
3	39 Total Tetra-Dioxins	24.62	23.13	5.716e3	7.002e3	0.770	0.82	NO	2.8352	2.8352
4	39 Total Tetra-Dioxins	24.62	24.16	1.566e3	1.775e3	0.770	0.88	NO	0.74478	0.74478
5	39 Total Tetra-Dioxins	24.62	24.37	1.151e4	1.468e4	0.770	0.79	NO	5.8336	5.8336
6	39 Total Tetra-Dioxins	24.62	24.55	3.309e3	4.488e3	0.770	0.74	NO	1.7381	1.7381
7	39 Total Tetra-Dioxins	24.62	24.82	2.564e3	3.150e3	0.770	0.91	NO	1.2738	1.2738
8	39 Total Tetra-Dioxins	24.62	25.00	7.015e3	8.875e3	0.770	0.79	NO	3.5422	3.5422
9	39 Total Tetra-Dioxins	24.62	25.36	5.414e3	7.230e3	0.770	0.75	NO	2.8184	2.8184
10	39 Total Tetra-Dioxins	24.62	25.51	1.103e3	1.134e3	0.770	0.97	YES	0.44758	0.00000
11	39 Total Tetra-Dioxins	24.62	25.80	6.018e3	8.063e3	0.770	0.75	NO	3.1389	3.1389
12	39 Total Tetra-Dioxins	24.62	25.91	2.211e3	2.331e3	0.770	0.95	YES	0.91987	0.00000
13	1 2,3,7,8-TCDD	26.10	26.08	2.452e3	3.952e3	0.770	0.62	YES	1.2564	0.00000
14	39 Total Tetra-Dioxins	24.62	26.38	5.905e3	7.500e3	0.770	0.79	NO	2.9883	2.9883
15	39 Total Tetra-Dioxins	24.62	26.53	1.283e3	1.543e3	0.770	0.83	NO	0.62985	0.62985



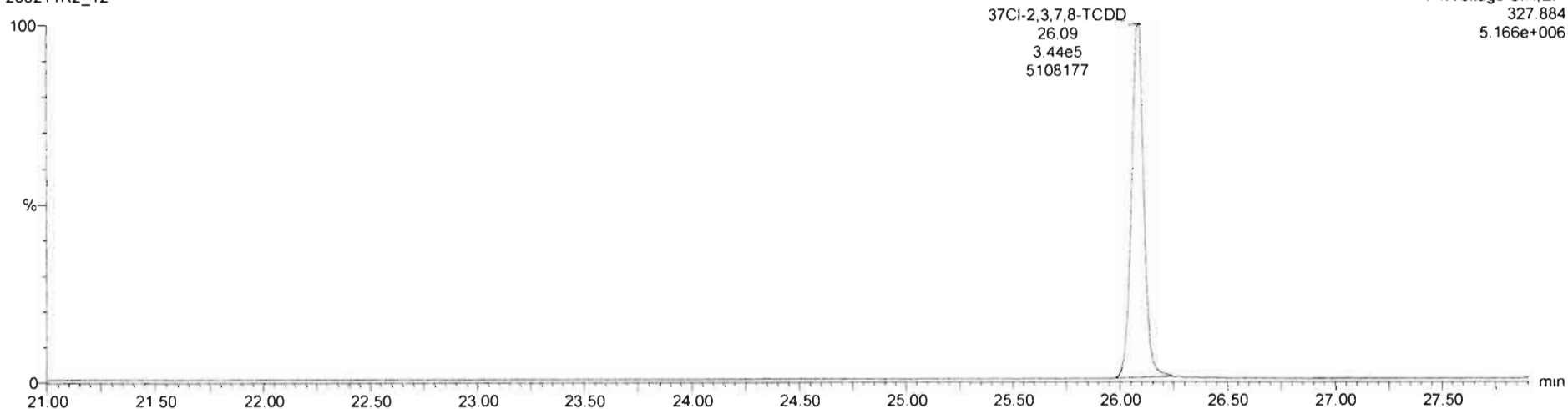
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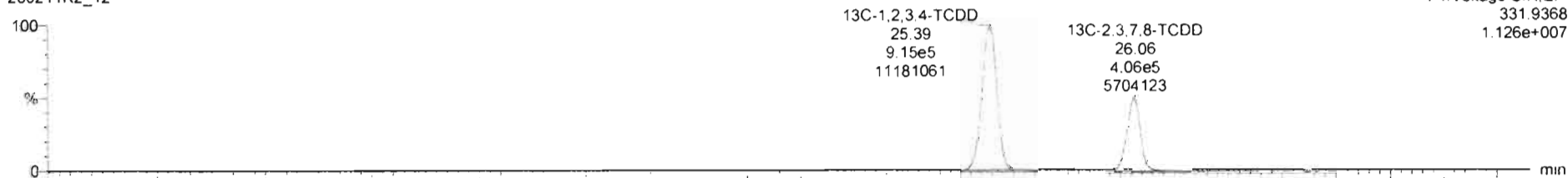
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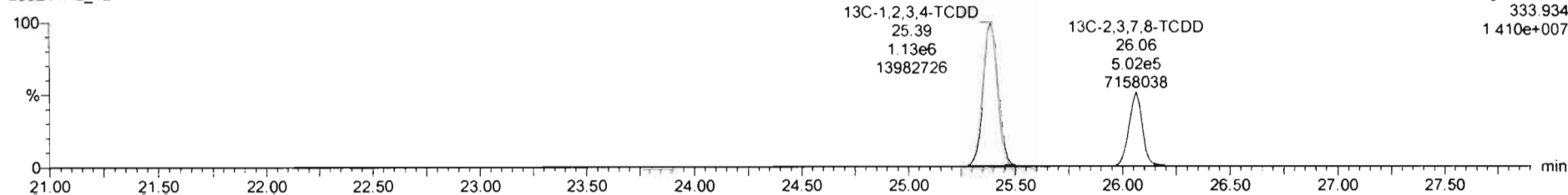


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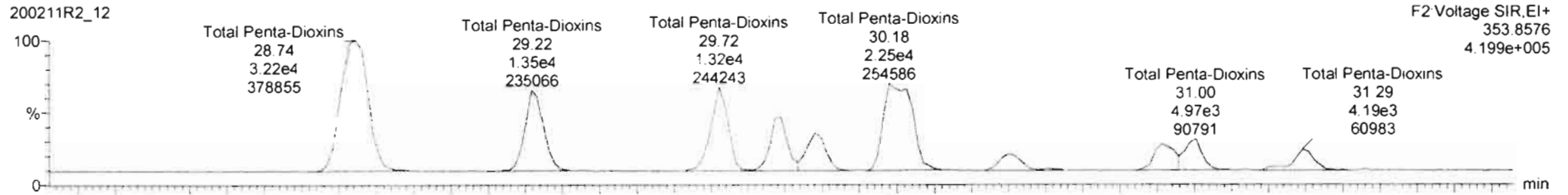
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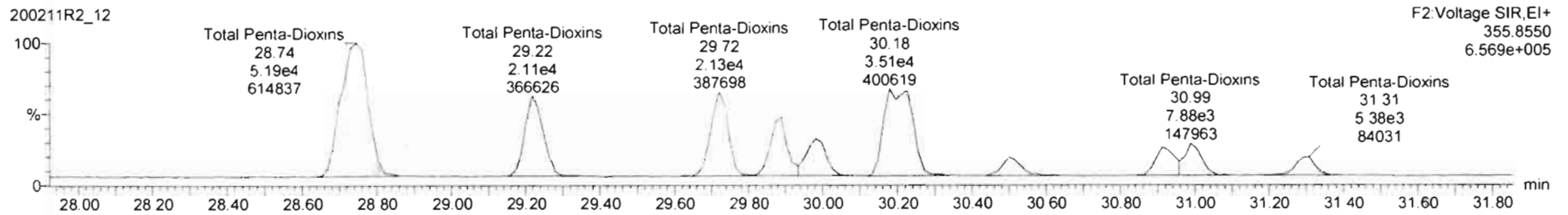
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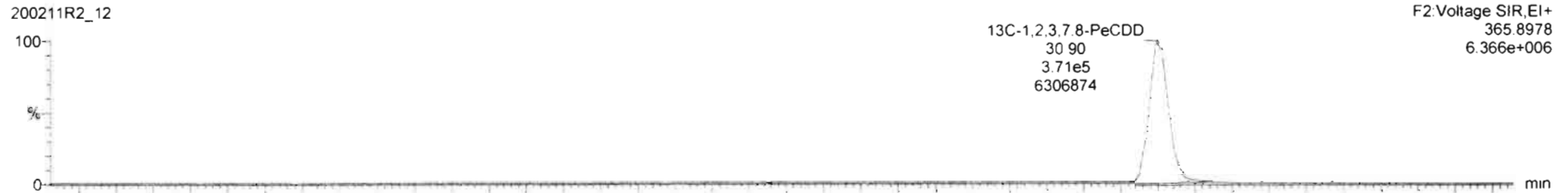


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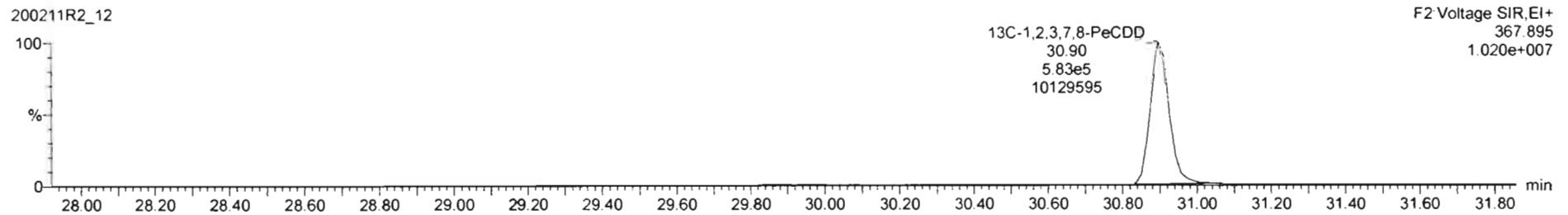


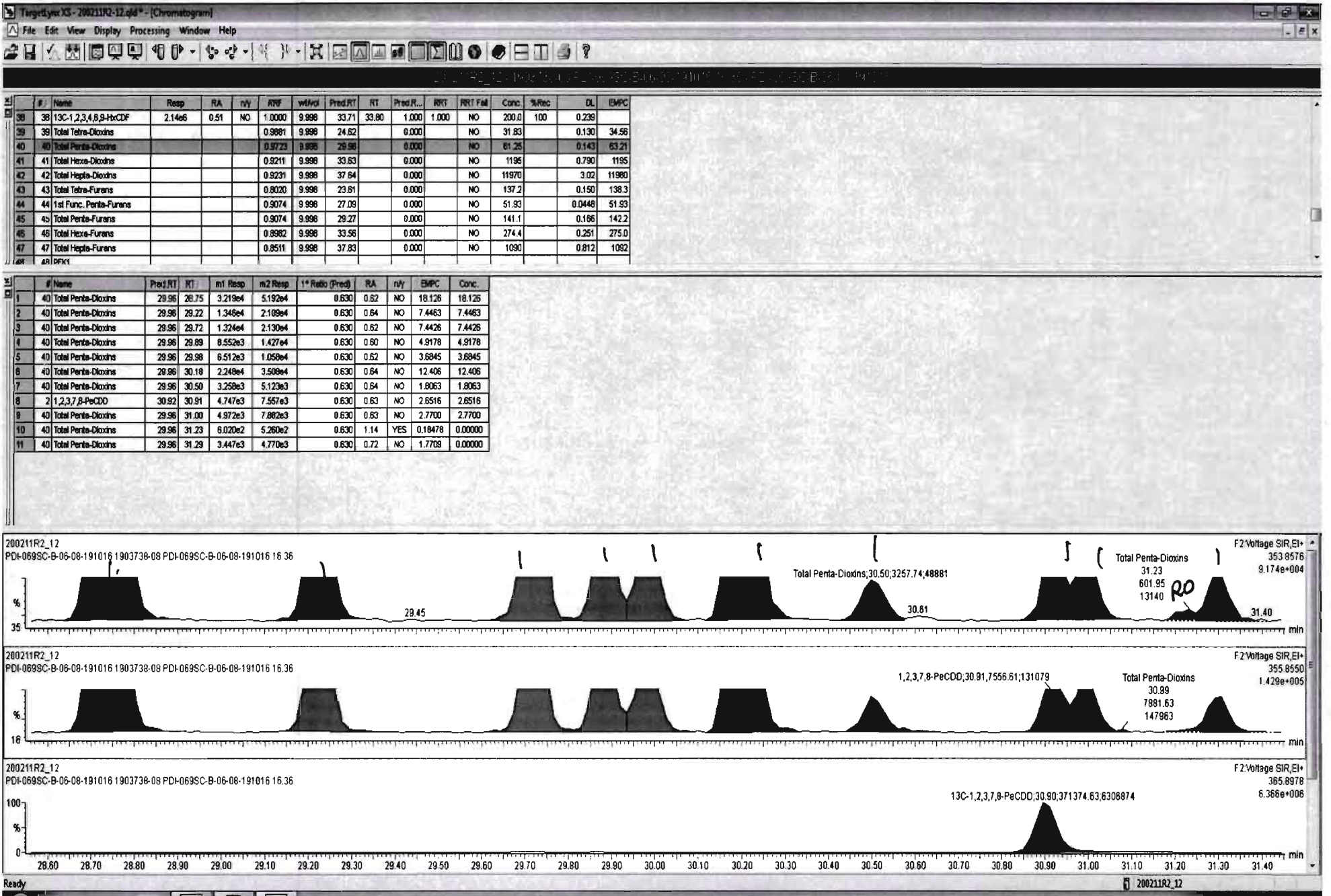
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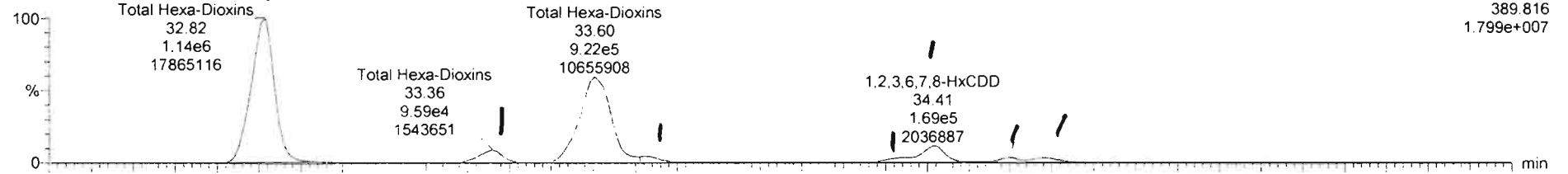
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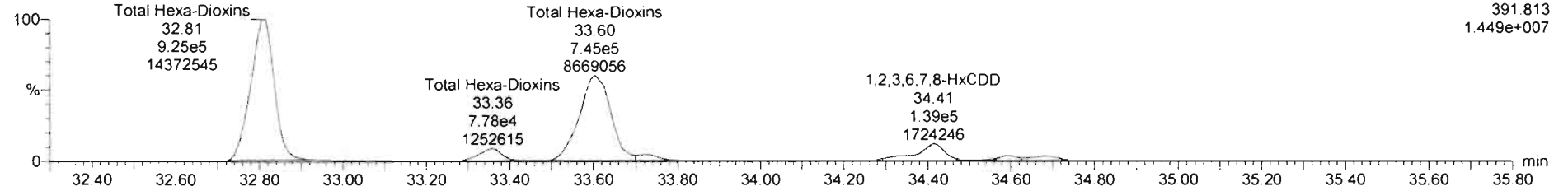
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1,2,3,4,7,8-HxCDD

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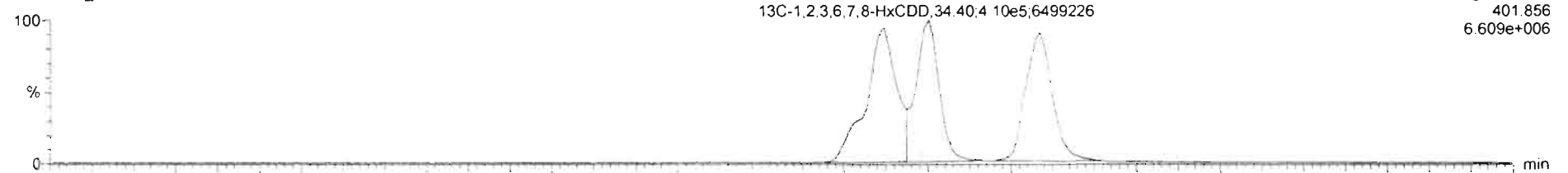


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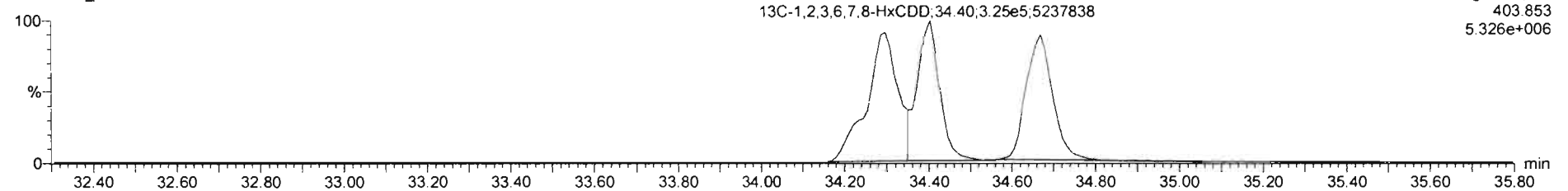


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200211R2_12

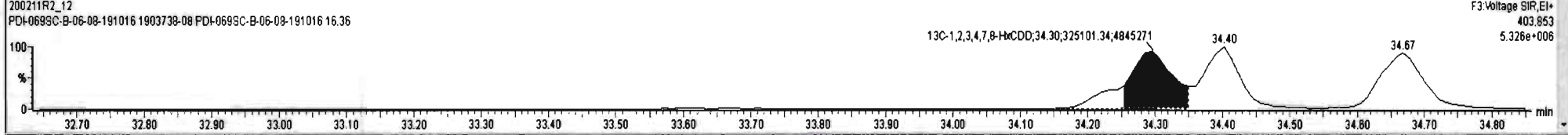
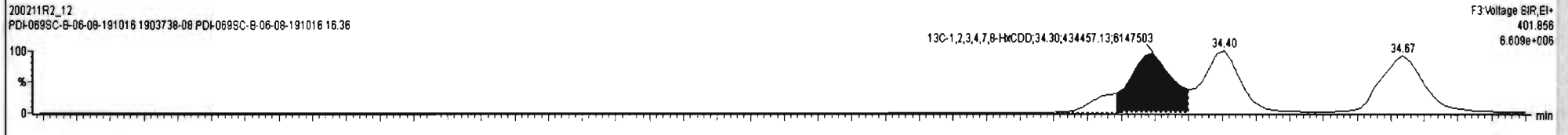
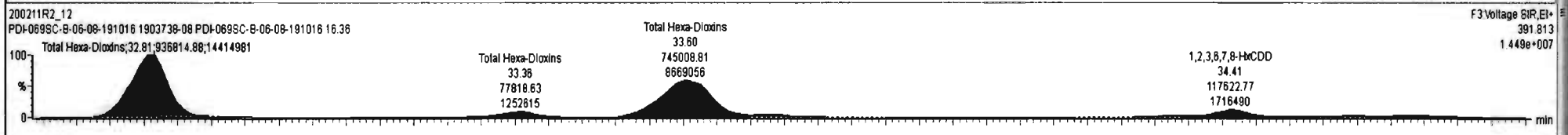
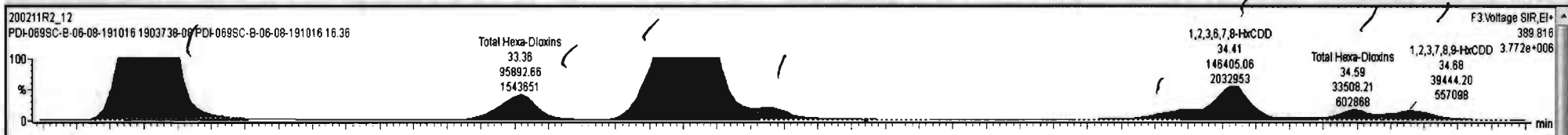


200211R2_12



#	Name	Resp	RA	n/y	RPF	wtAvcl	Pred.RT	RT	Pred.R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	9.998	33.63		0.000		NO	1275		0.798	1275
42	Total Hepta-Dioxins				0.9231	9.998	37.64		0.000		NO	11970		3.02	11970
43	Total Tetra-Furens				0.8020	9.998	23.61		0.000		NO	136.0		0.150	136.5
44	1st Func. Penta-Furens				0.9074	9.998	27.09		0.000		NO	51.93		0.0448	51.93
45	Total Penta-Furens				0.9074	9.998	29.27		0.000		NO	143.9		0.166	143.9
46	Total Hexa-Furens				0.8982	9.998	33.56		0.000		NO	268.1		0.251	274.6

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	1,2,3,4,7,8-HxCDD	34.31	34.34	2.536e4	2.289e4	1.240	1.10	NO	11.893	11.893
2	1,2,3,6,7,8-HxCDD	34.40	34.41	1.464e5	1.176e5	1.240	1.24	NO	78.002	78.002
3	1,2,3,7,8,9-HxCDD	34.70	34.68	3.944e4	3.283e4	1.240	1.20	NO	20.275	20.275
4	Total Hexa-Dioxins	33.63	33.73	4.044e4	3.689e4	1.240	1.10	NO	22.184	22.184
5	Total Hexa-Dioxins	33.63	33.60	9.221e5	7.450e5	1.240	1.24	NO	478.21	478.21
6	Total Hexa-Dioxins	33.63	33.36	9.589e4	7.762e4	1.240	1.23	NO	49.830	49.830
7	Total Hexa-Dioxins	33.63	32.82	1.150e6	9.388e5	1.240	1.23	NO	596.70	596.70
8	Total Hexa-Dioxins	33.63	34.59	3.351e4	2.611e4	1.240	1.28	NO	17.102	17.102



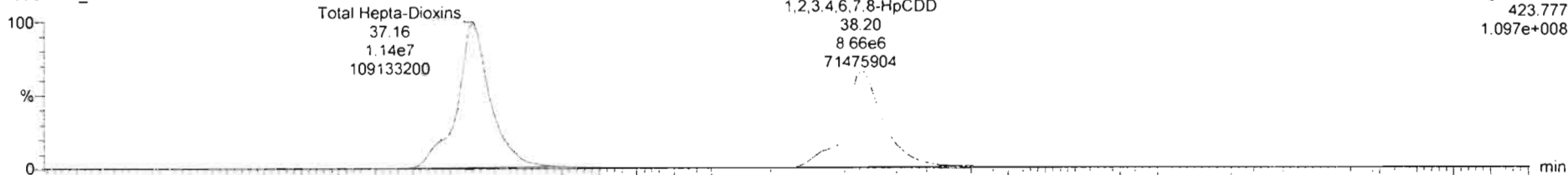
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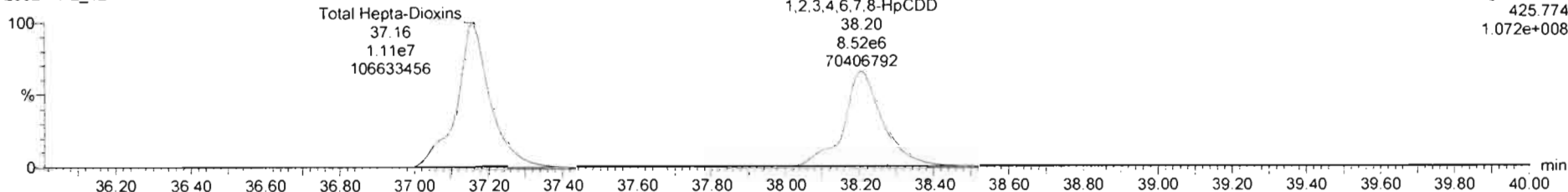
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1,2,3,4,6,7,8-HpCDD

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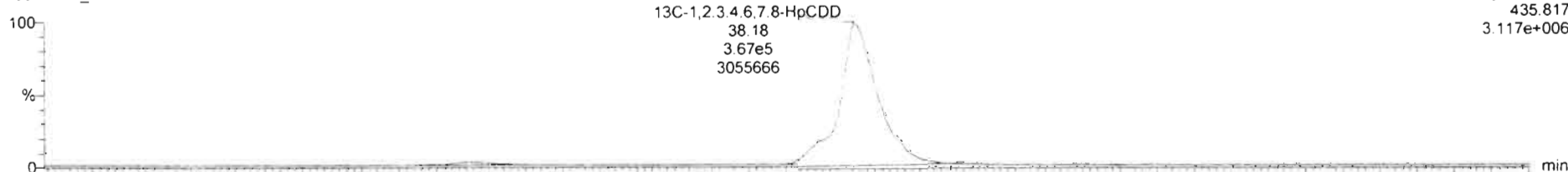


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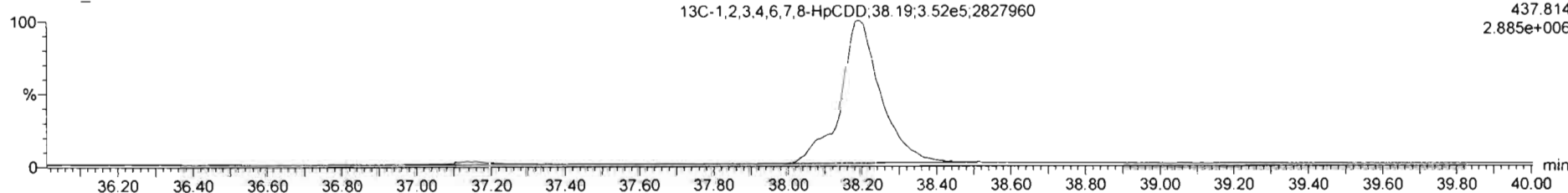


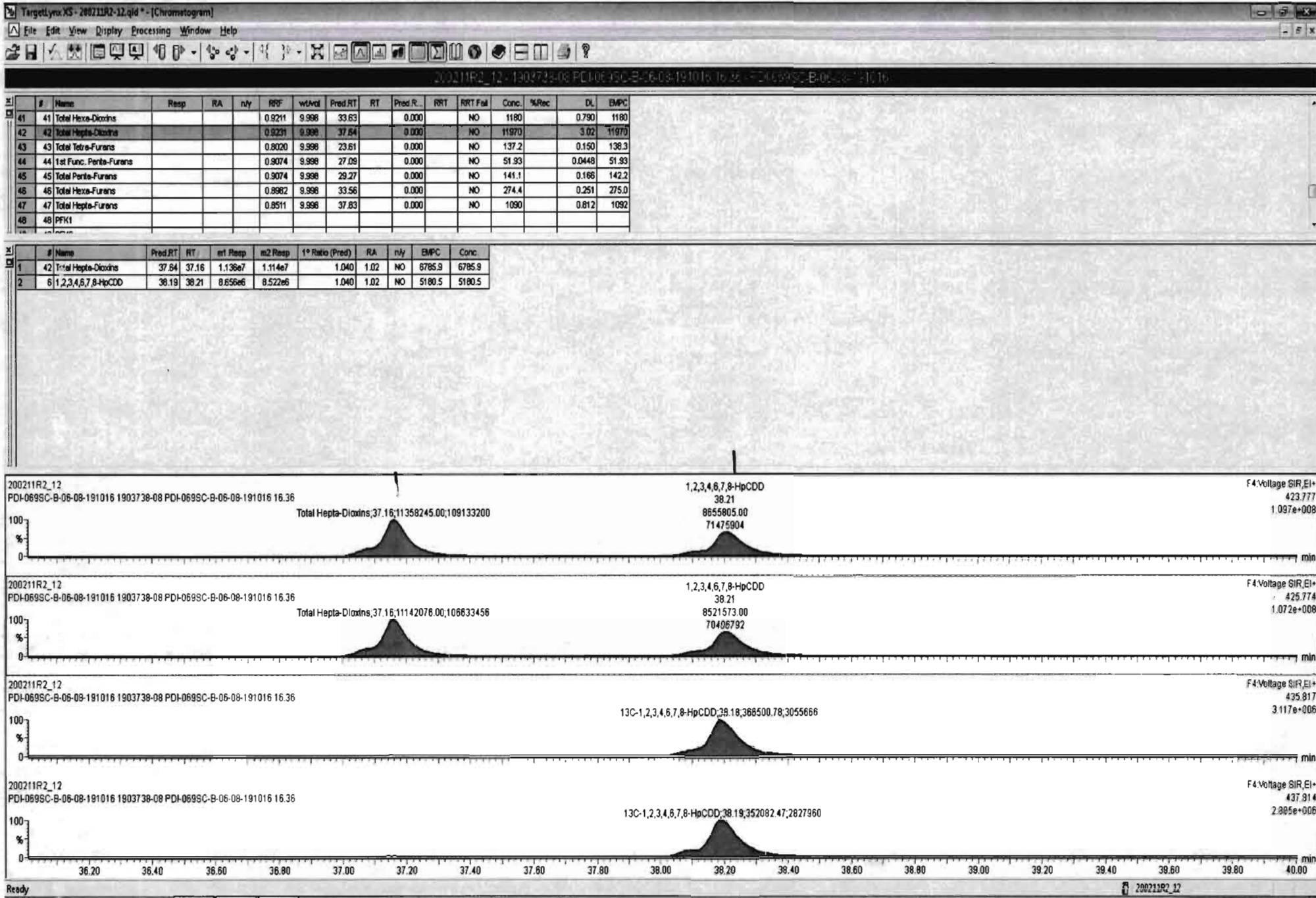
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200211R2_12



200211R2_12



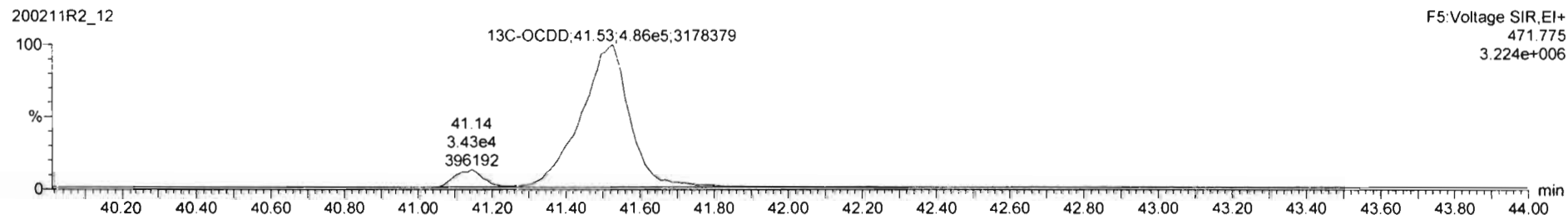
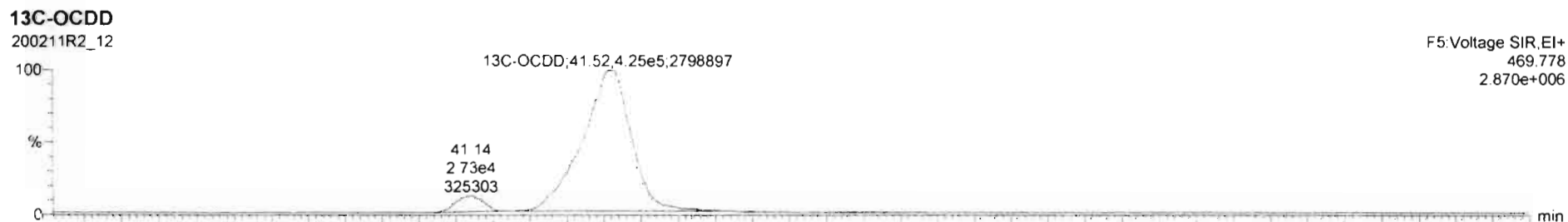
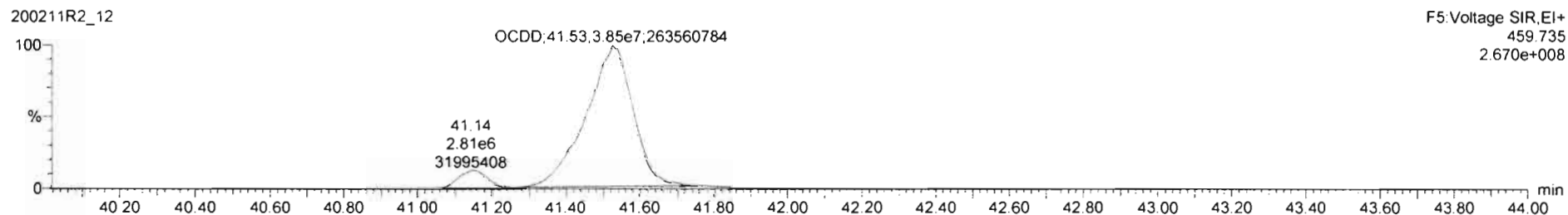


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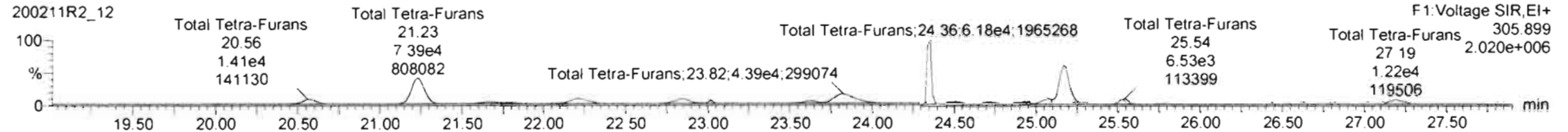
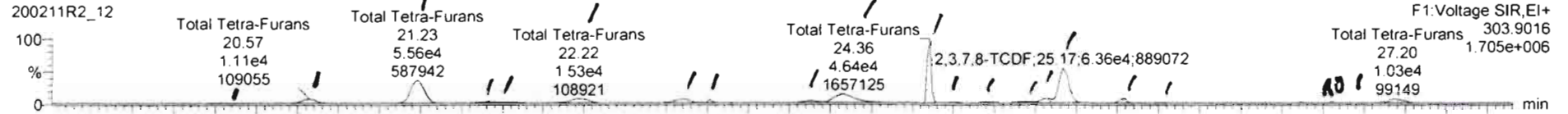


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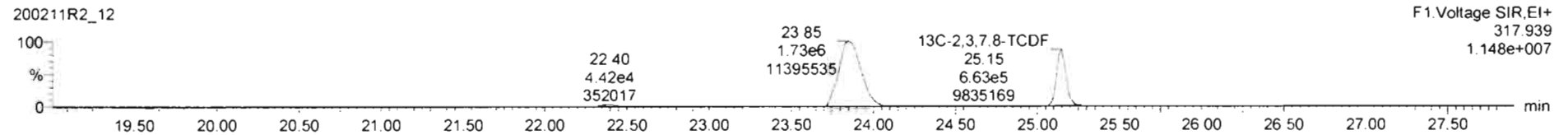
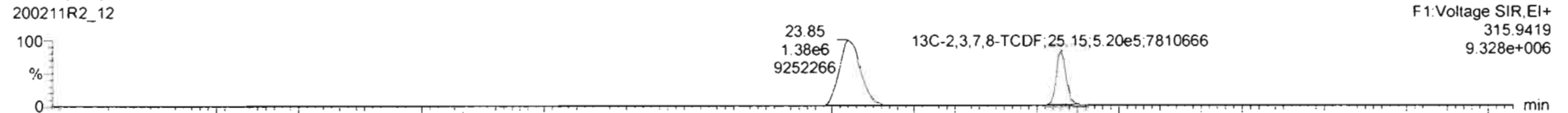
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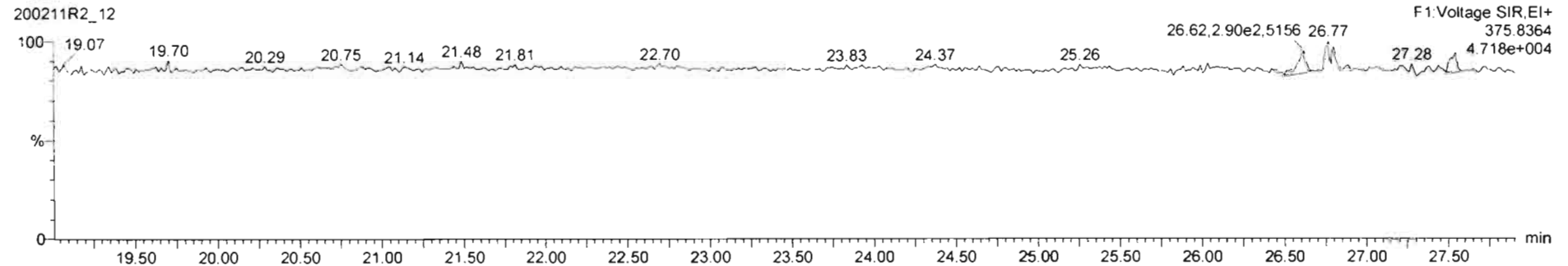
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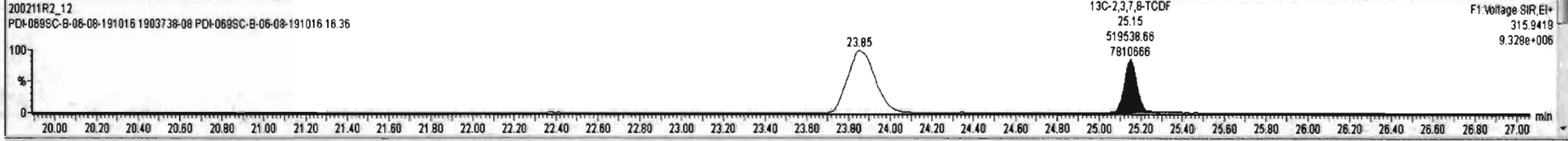
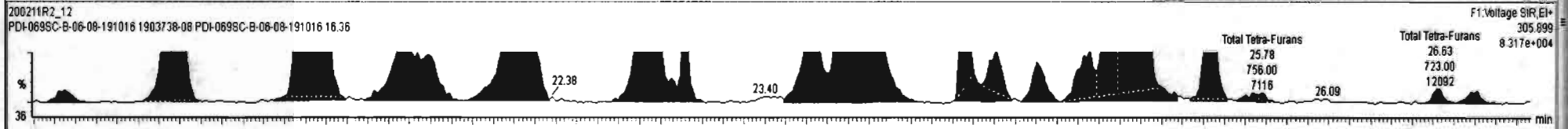
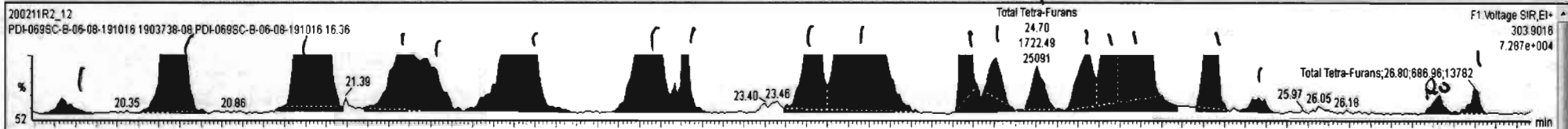


DPE1



#	Name	Resp	RA	n/y	RRF	wtAvcl	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	9.998	33.63		0.000		NO	1180		0.790	1180
42	Total Hepta-Dioxins				0.9231	9.998	37.64		0.000		NO	11970		3.02	11970
43	Total Tetra-Furans				0.9020	9.998	23.61		0.000		NO	136.0		0.150	136.5
44	1st Func. Penta-Furans				0.9074	9.998	27.09		0.000		NO	51.93		0.0448	51.93
45	Total Penta-Furans				0.9074	9.998	29.27		0.000		NO	141.1		0.166	142.2
46	Total Hexa-Furans				0.8982	9.998	33.56		0.000		NO	274.4		0.251	275.0

#	Name	Pred_RT	RT	wt Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Tetra-Furans	23.61	20.03	6.522e2	8.674e2	0.770	0.75	NO	0.32063	0.32063
2	Total Tetra-Furans	23.61	20.57	1.117e4	1.423e4	0.770	0.79	NO	5.3594	5.3594
3	Total Tetra-Furans	23.61	21.23	5.625e4	7.479e4	0.770	0.75	NO	27.651	27.651
4	Total Tetra-Furans	23.61	21.66	5.440e3	6.843e3	0.770	0.80	NO	2.5915	2.5915
5	Total Tetra-Furans	23.61	21.77	2.823e3	3.334e3	0.770	0.85	NO	1.2993	1.2993
6	Total Tetra-Furans	23.61	22.22	1.532e4	2.030e4	0.770	0.75	NO	7.5159	7.5159
7	Total Tetra-Furans	23.61	22.85	1.115e4	1.565e4	0.770	0.71	NO	5.6539	5.6539
8	Total Tetra-Furans	23.61	23.01	2.938e3	3.484e3	0.770	0.84	NO	1.3549	1.3549
9	Total Tetra-Furans	23.61	23.62	5.187e3	7.228e3	0.770	0.72	NO	2.6198	2.6198
10	Total Tetra-Furans	23.61	23.82	3.314e4	4.385e4	0.770	0.76	NO	16.245	16.245
11	Total Tetra-Furans	23.61	24.36	4.730e4	6.345e4	0.770	0.75	NO	23.368	23.368
12	Total Tetra-Furans	23.61	24.51	2.471e3	3.441e3	0.770	0.72	NO	1.2475	1.2475
13	Total Tetra-Furans	23.61	24.70	1.722e3	2.330e3	0.770	0.74	NO	0.85504	0.85504
14	Total Tetra-Furans	23.61	24.94	2.866e3	3.645e3	0.770	0.79	NO	1.3738	1.3738
15	Total Tetra-Furans	23.61	25.06	7.420e3	9.400e3	0.770	0.79	NO	3.5491	3.5491
16	2,3,7,8-TCDF	25.18	25.17	6.533e4	8.671e4	0.770	0.75	NO	32.080	32.080
17	Total Tetra-Furans	23.61	25.54	5.371e3	6.889e3	0.770	0.78	NO	2.5870	2.5870
18	Total Tetra-Furans	23.61	25.76	6.262e2	7.560e2	0.770	0.83	NO	0.29165	0.00000
19	Total Tetra-Furans	23.61	26.63	6.483e2	7.230e2	0.770	0.90	YES	0.27002	0.00000
20	Total Tetra-Furans	23.61	26.80	6.670e2	7.978e2	0.770	0.66	NO	0.31328	0.31328



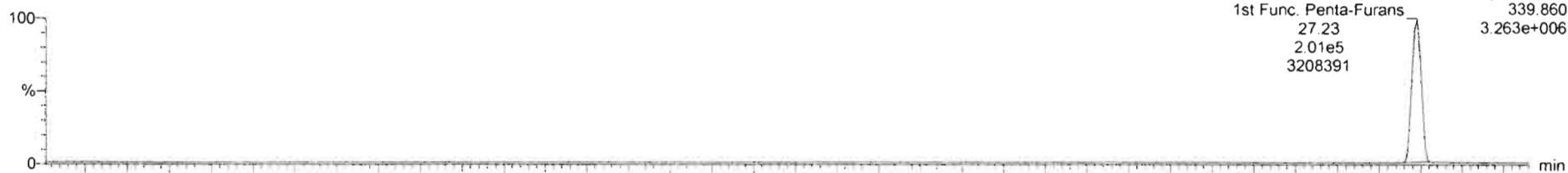
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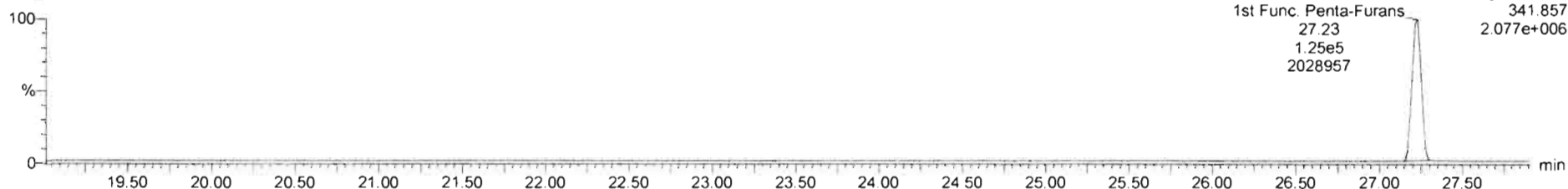
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1st Func. Penta-Furans

200211R2_12

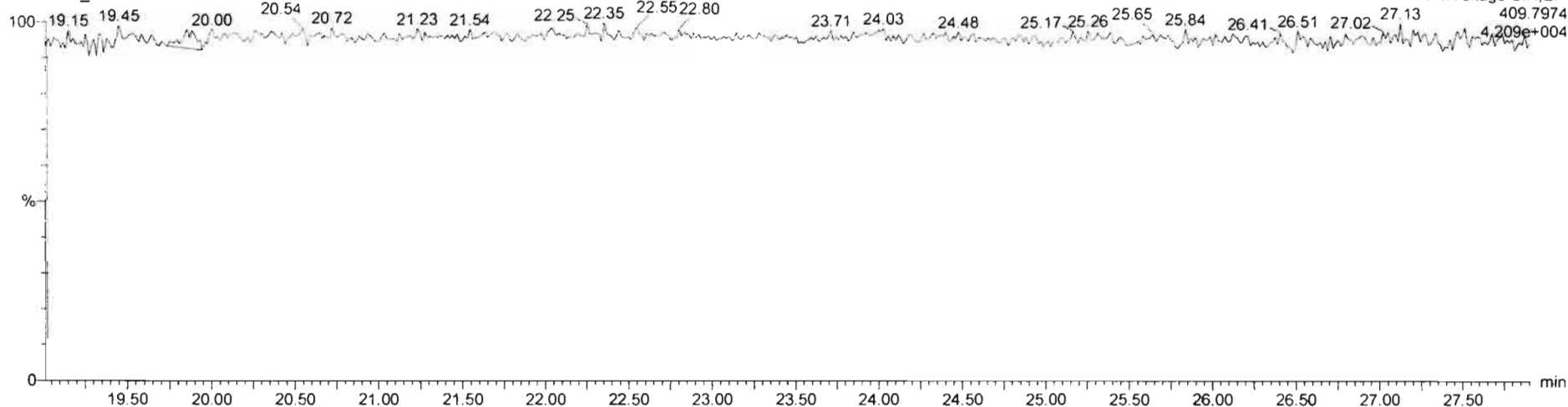


200211R2_12



DPE6

200211R2_12



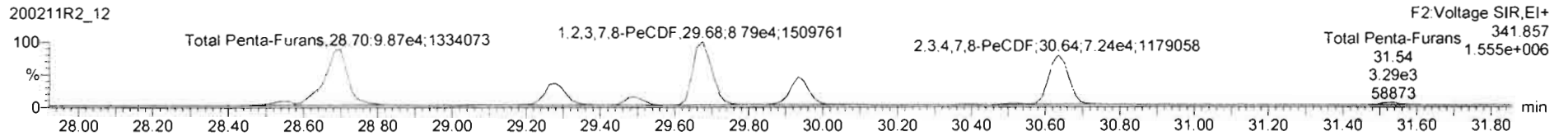
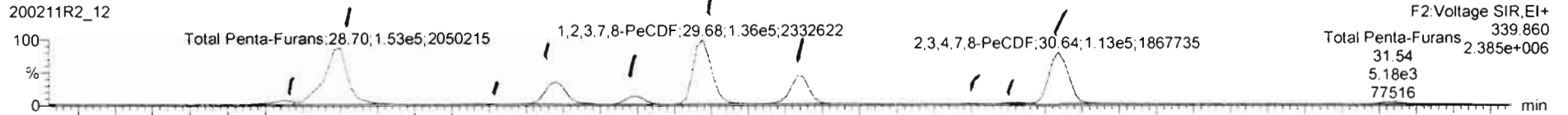
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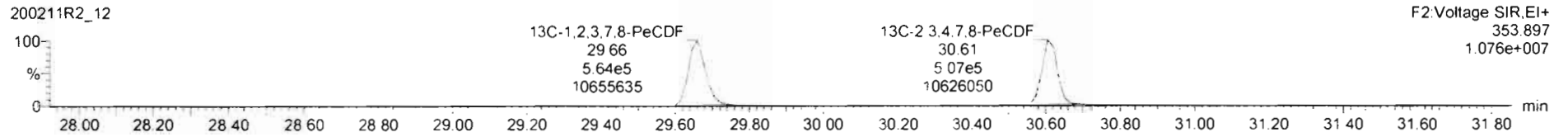
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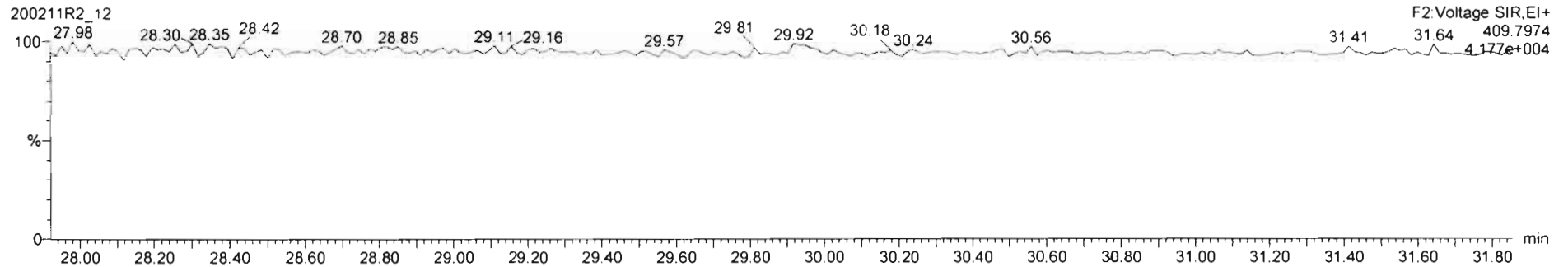
1,2,3,7,8-PeCDF



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



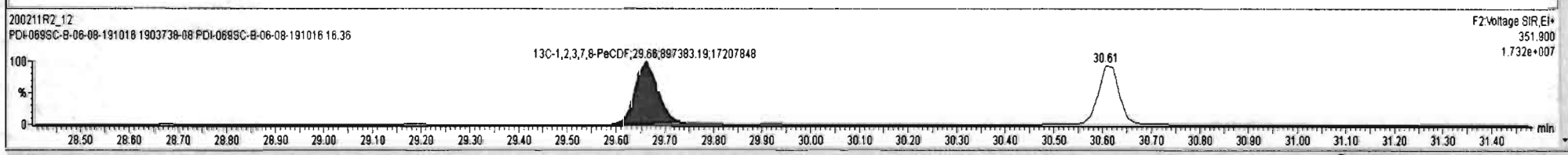
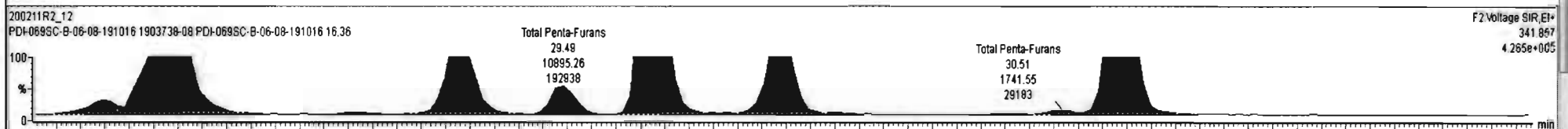
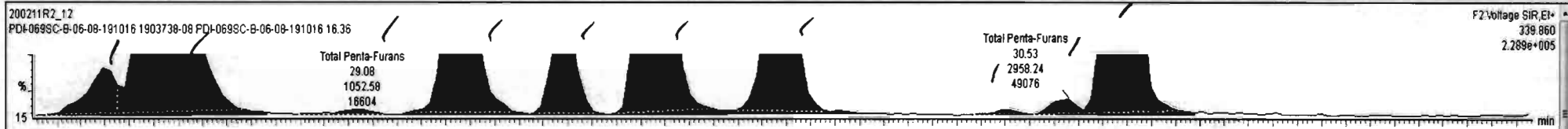
DPE2



200211R2_12_PDI+069SC-B-06-08-191016-16.36_PDI+069SC-B-06-08-191016-16.36

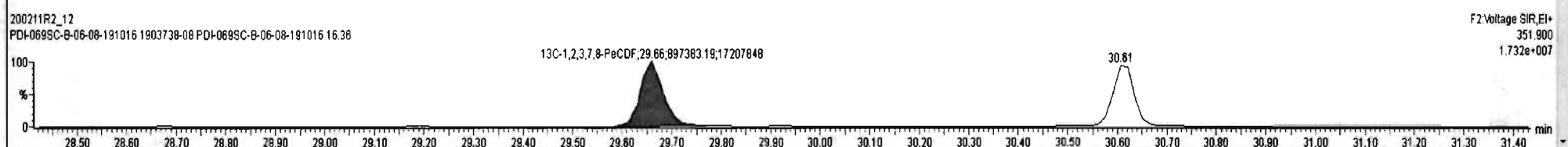
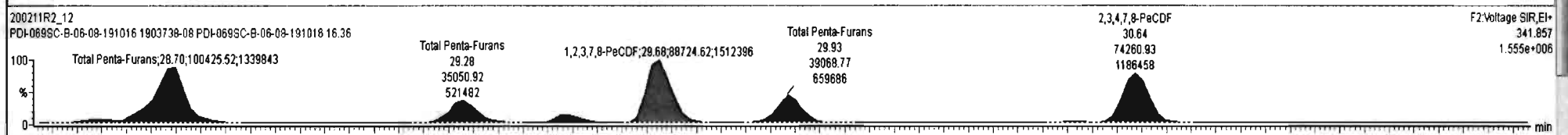
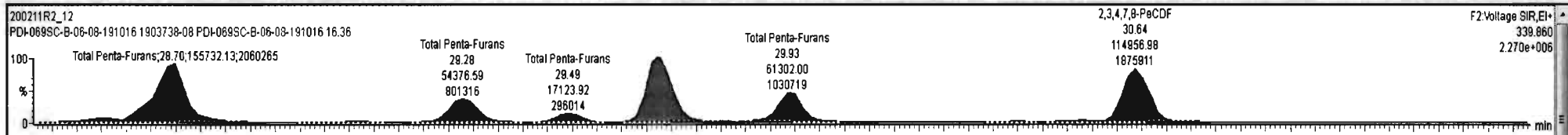
#	Name	Resp	RA	n/y	RRF	wt/rd	Pred_RT	RT	Pred_R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	9.998	33.63		0.000		NO	1190		0.790	1180
42	Total Hepta-Dioxins				0.9231	9.998	37.64		0.000		NO	11970		3.02	11970
43	Total Tetra-Furans				0.8020	9.998	23.61		0.000		NO	136.0		0.150	136.5
44	1st Func. Penta-Furans				0.9074	9.998	27.09		0.000		NO	51.93		0.0448	51.93
45	Total Penta-Furans				0.9074	9.998	29.27		0.000		NO	143.9		0.198	143.9
46	Total Hexa-Furans				0.8962	9.998	33.56		0.000		NO	274.4		0.251	275.0

#	Name	Pred_RT	RT	wr Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	29.27	28.55	9.799e3	6.393e3	1.550	1.53	NO	2.5783	2.5783
2	Total Penta-Furans	29.27	28.70	1.557e5	1.004e5	1.550	1.55	NO	40.788	40.788
3	Total Penta-Furans	29.27	29.08	1.053e3	6.729e2	1.550	1.56	NO	0.27475	0.27475
4	Total Penta-Furans	29.27	29.28	5.438e4	3.505e4	1.550	1.55	NO	14.240	14.240
5	Total Penta-Furans	29.27	29.49	1.712e4	1.090e4	1.550	1.57	NO	4.4615	4.4615
6	1,2,3,7,8-PeCDF	29.68	29.68	1.381e5	8.872e4	1.550	1.56	NO	34.222	34.222
7	Total Penta-Furans	29.27	29.93	6.130e4	3.907e4	1.550	1.57	NO	15.982	15.982
8	Total Penta-Furans	29.27	30.39	8.411e2	5.888e2	1.550	1.43	NO	0.22786	0.22786
9	Total Penta-Furans	29.27	30.53	2.958e3	1.742e3	1.550	1.70	NO	0.74835	0.74835
10	2,3,4,7,8-PeCDF	30.84	30.84	1.150e5	7.426e4	1.550	1.55	NO	30.422	30.422



#	Name	Resp	RA	nly	RPF	wtAvcI	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
41	Total Hexa-Dioxins				0.9211	9.998	33.63		0.000		NO	1180		0.790	1180
42	Total Hepta-Dioxins				0.9231	9.998	37.64		0.000		NO	11970		3.02	11970
43	Total Tetra-Furans				0.9020	9.998	23.61		0.000		NO	136.0		0.150	136.5
44	1st Func. Penta-Furans				0.9074	9.998	27.09		0.000		NO	51.93		0.0448	51.93
45	Total Penta-Furans				0.9074	9.998	29.27		0.000		NO	143.9		0.166	143.9
46	Total Hexa-Furans				0.8962	9.998	33.56		0.000		NO	274.4		0.251	275.0

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	Total Penta-Furans	29.27	28.55	9.799e3	6.393e3	1.550	1.53	NO	2.5783	2.5783
2	Total Penta-Furans	29.27	28.70	1.557e5	1.004e5	1.550	1.55	NO	40.788	40.788
3	Total Penta-Furans	29.27	29.08	1.053e3	6.729e2	1.550	1.56	NO	0.27475	0.27475
4	Total Penta-Furans	29.27	29.28	5.438e4	3.505e4	1.550	1.55	NO	14.240	14.240
5	Total Penta-Furans	29.27	29.49	1.712e4	1.090e4	1.550	1.57	NO	4.4615	4.4615
6	1,2,3,7,8-PeCDF	29.68	29.68	1.391e5	8.872e4	1.550	1.56	NO	34.222	34.222
7	Total Penta-Furans	29.27	29.93	6.130e4	3.907e4	1.550	1.57	NO	15.982	15.982
8	Total Penta-Furans	29.27	30.39	8.411e2	5.886e2	1.550	1.43	NO	0.22766	0.22766
9	Total Penta-Furans	29.27	30.53	2.958e3	1.742e3	1.550	1.70	NO	0.74835	0.74835
10	2,3,4,7,8-PeCDF	30.64	30.64	1.150e5	7.426e4	1.550	1.55	NO	30.422	30.422

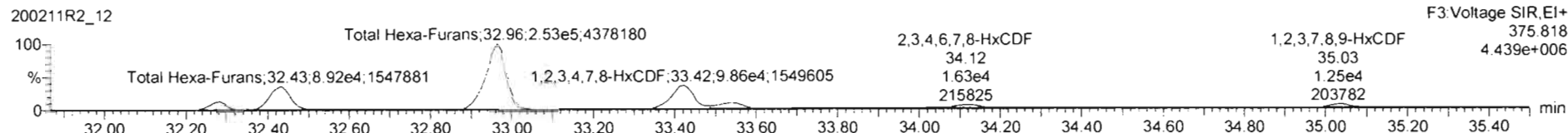
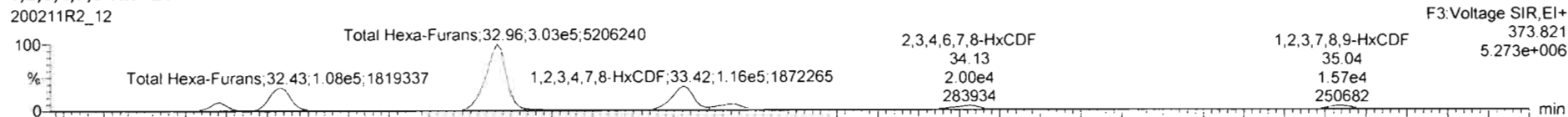


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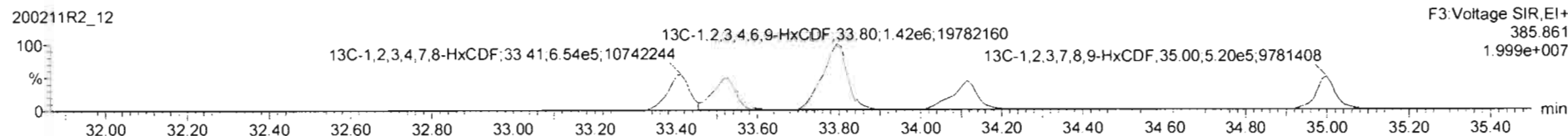
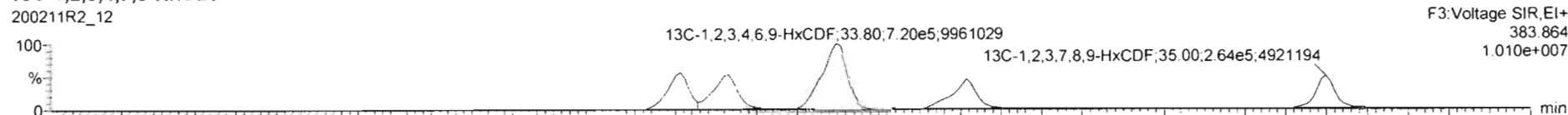
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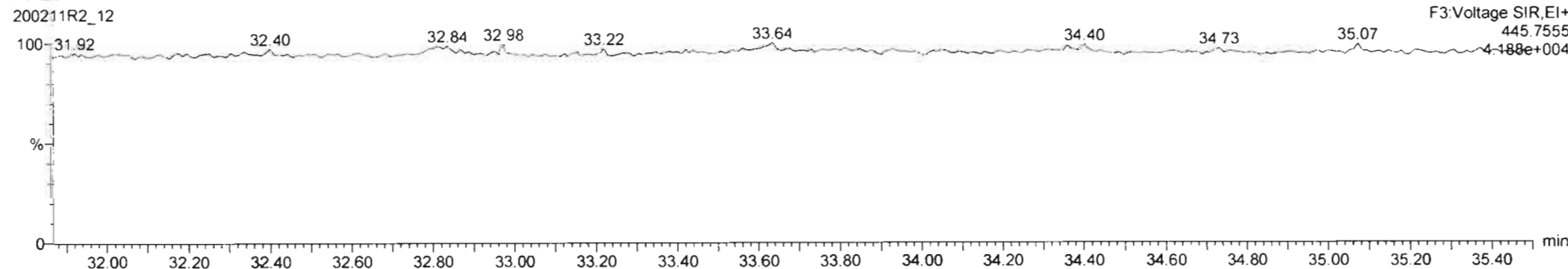
1,2,3,4,7,8-HxCDF



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

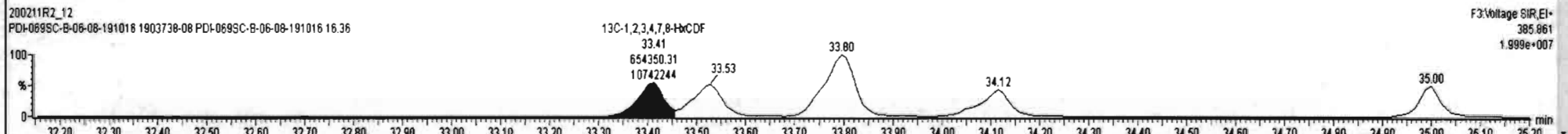
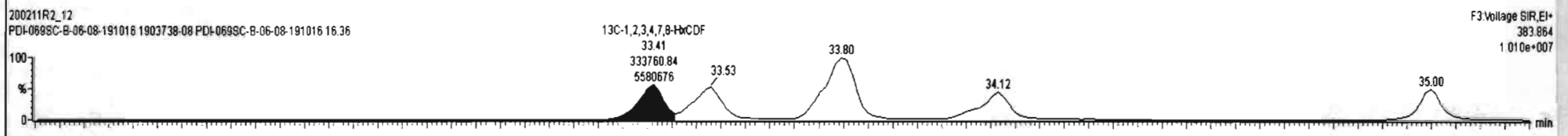
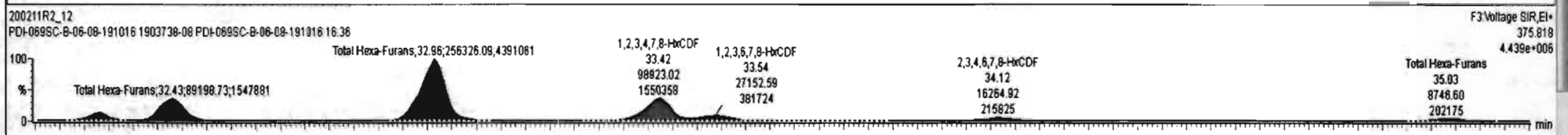
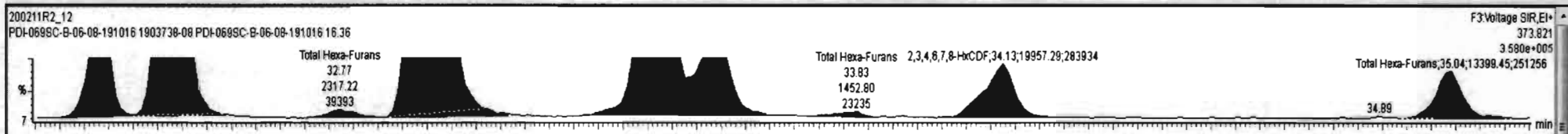


DPE3



#	Name	Resp	RA	nly	RF	wVol	Prod.RT	RT	Prod.R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
46	Total Hexa-Furans				0.9682	9.998	33.58		0.000		NO	288.1		0.251	274.5
47	Total Hepta-Furans				0.8511	9.998	37.83		0.000		NO	1090		0.812	1082
48	PFK1														
49	PFK2														
50	PFK3														
51	PFK4														

#	Name	Prod.RT	RT	m1 Resp	m2 Resp	1° Ratio (Prod)	RA	nly	EMPC	Conc.
1	Total Hexa-Furans	33.58	32.28	3.045e4	2.538e4	1.240	1.20	NO	13.300	13.300
2	Total Hexa-Furans	33.58	32.43	1.085e5	8.920e4	1.240	1.22	NO	47.093	47.093
3	Total Hexa-Furans	33.58	32.77	2.317e3	1.778e3	1.240	1.30	NO	0.97531	0.97531
4	Total Hexa-Furans	33.58	32.96	3.074e5	2.583e5	1.240	1.20	NO	134.25	134.25
5	1,2,3,4,7,8-HxCDF	33.41	33.42	1.165e5	8.892e4	1.240	1.18	NO	50.573	50.573
8	1,2,3,6,7,8-HxCDF	33.54	33.54	3.094e4	2.715e4	1.240	1.14	NO	12.930	12.930
7	Total Hexa-Furans	33.58	33.83	1.453e3	1.553e3	1.240	0.94	YES	0.62606	0.00000
8	1,2,3,4,6,7,8-HxCDF	34.15	34.13	1.998e4	1.626e4	1.240	1.23	NO	8.9559	8.9559
9	1,2,3,7,8,9-HxCDF	35.00	35.01	2.304e3	3.685e3	1.240	0.83	YES	1.2394	0.00000
10	Total Hexa-Furans	33.58	35.04	1.340e4	8.747e3	1.240	1.53	YES	4.6864	0.00000

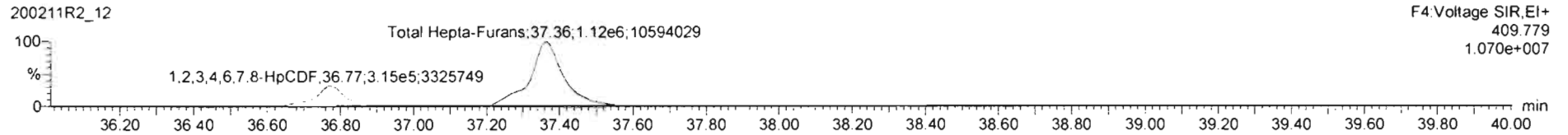
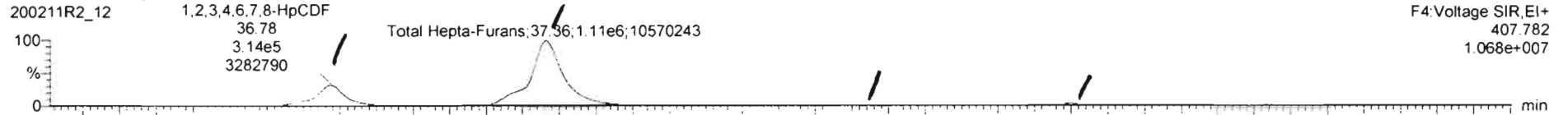


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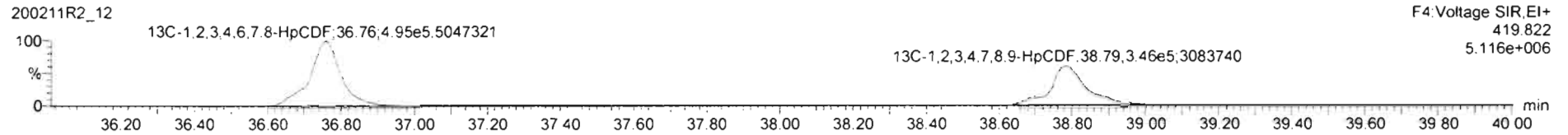
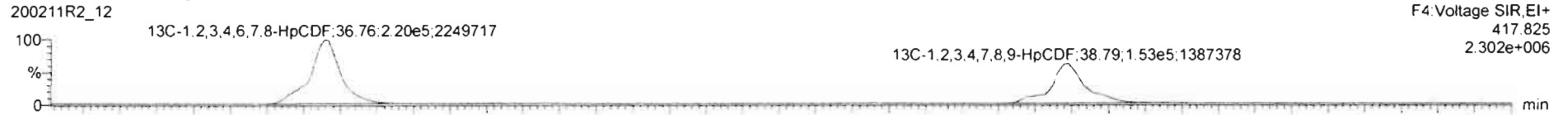
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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_12, Date: 12-Feb-2020, Time: 00:36:46, ID: 1903738-08 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

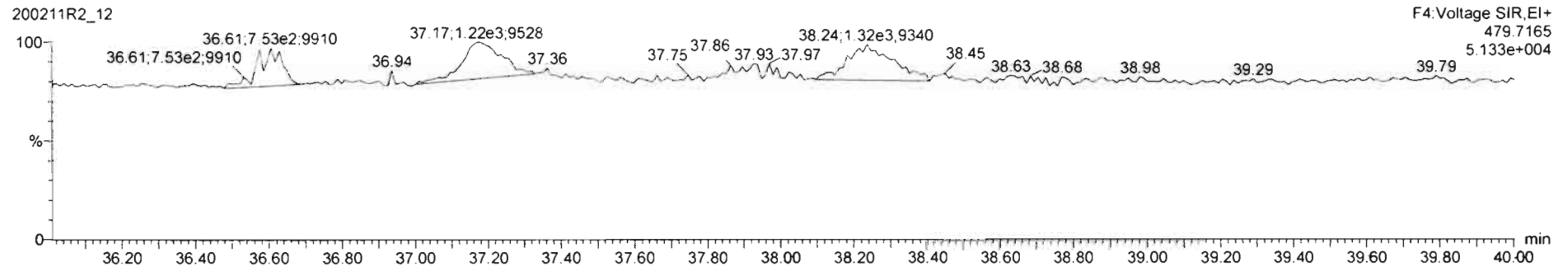
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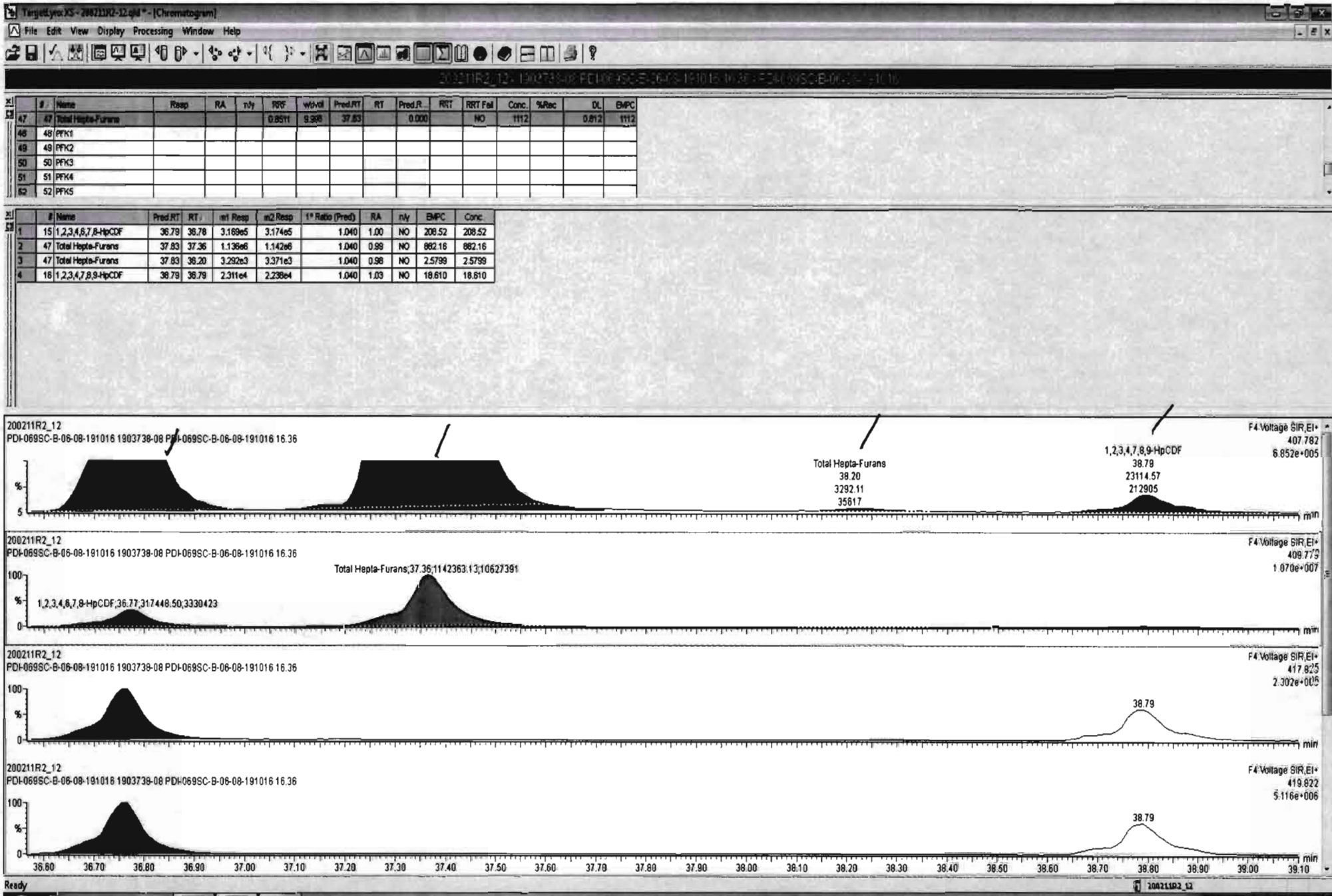


13C-1,2,3,4,6,7,8-HpCDF



DPE4





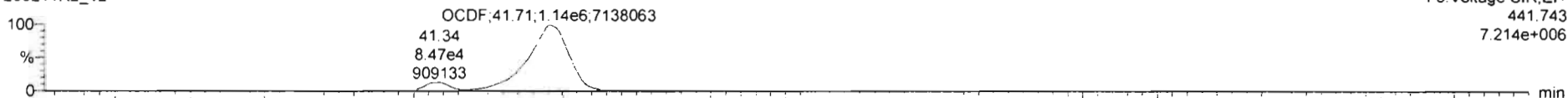
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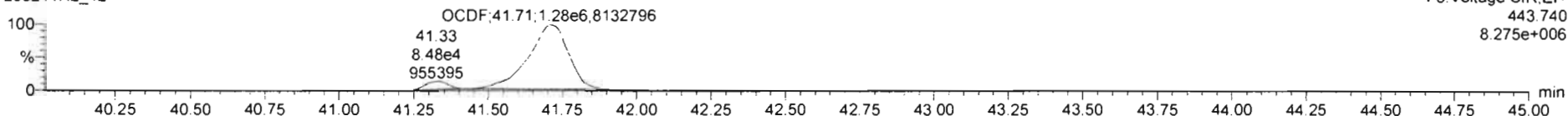
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OCDF

200211R2_12



200211R2_12

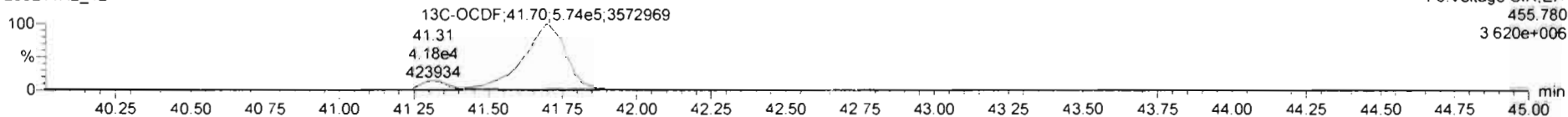


13C-OCDF

200211R2_12

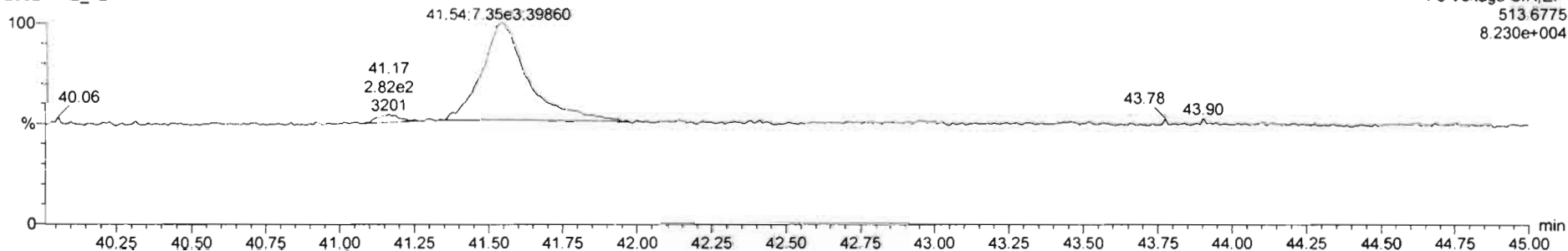


200211R2_12



DPE5

200211R2_12

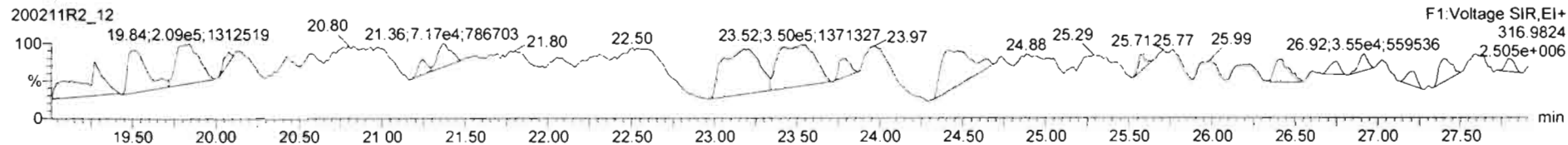


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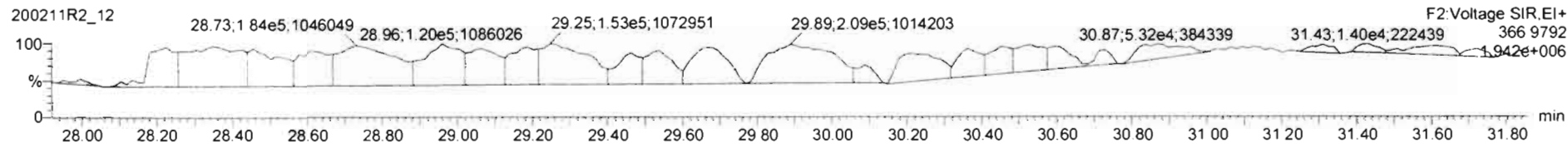
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Printed: Wednesday, February 12, 2020 11:40:05 Pacific Standard Time

Name: 200211R2_12, Date: 12-Feb-2020, Time: 00:36:46, ID: 1903738-08 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

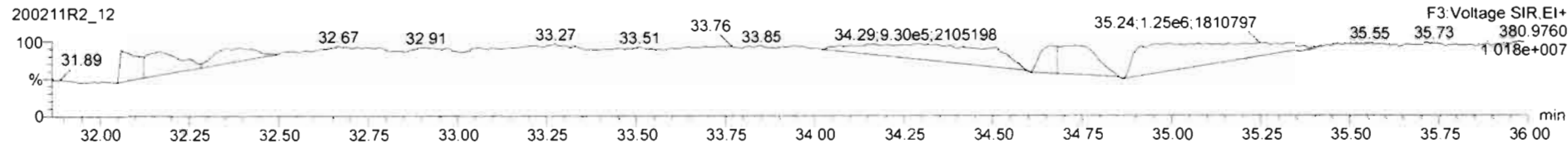
PFK1



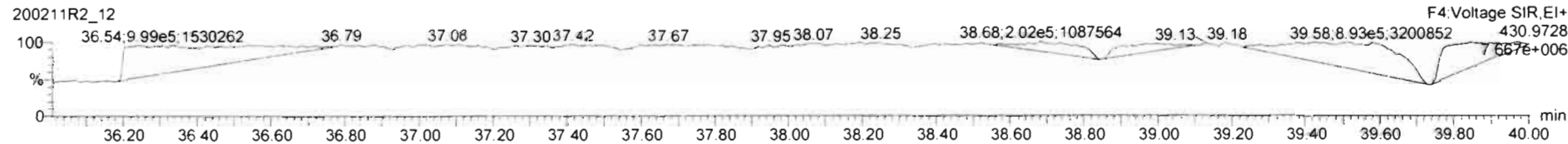
PFK2



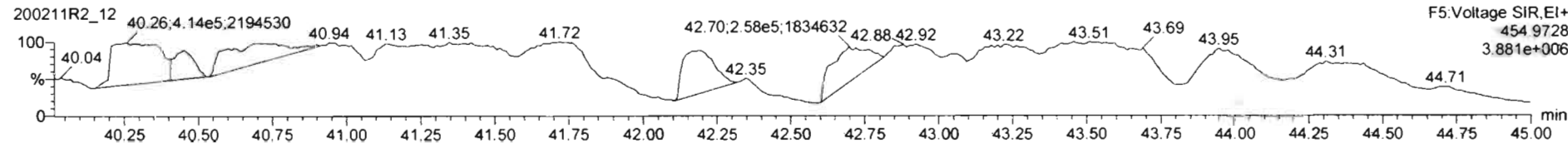
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200212R2\200212R2-12.qld

Last Altered: Thursday, March 12, 2020 16:52:01 Pacific Daylight Time
Printed: Thursday, March 12, 2020 16:57:31 Pacific Daylight Time

DB 3/12/20

ML 3/12/20

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200212R2_12, Date: 12-Feb-2020, Time: 22:55:09, ID: 1903738-08@10X PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	6 1,2,3,4,6,7,8-HpCDD	1.79e6	1.01	NO	0.923	9.998	38.077	38.09	1.000	1.001	5386.7		11.9	5390
2	7 OCDD	8.75e6	0.89	NO	0.975	9.998	41.133	41.14	1.000	1.000	35241		12.5	35200
3	23 13C-1,2,3,4,6,7,8-HpCDD	7.20e4	1.08	NO	0.747	9.998	38.136	38.07	1.132	1.130	76.143	38.1	1.10	
4	24 13C-OCDD	1.02e5	0.92	NO	0.707	9.998	41.033	41.13	1.218	1.221	114.08	28.5	0.871	
5	38 13C-1,2,3,4,6,9-HxCDF	2.53e5	0.53	NO	1.00	9.998	33.710	33.69	1.000	1.000	200.04	100	1.01	

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Dataset: U:\VG12.PRO\Results\200212R2\200212R2-12.qld

Last Altered: Thursday, March 12, 2020 16:52:01 Pacific Daylight Time

Printed: Thursday, March 12, 2020 16:57:31 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200212R2_12, Date: 12-Feb-2020, Time: 22:55:09, ID: 1903738-08@10X PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.80	1.339e4	1.642e4	1.210e3	1.511e3	0.80	NO	2.721e3	4.5578	4.5578	1.05
2	Total Tetra-Dioxins	22.20	5.577e3	7.726e3	6.325e2	8.124e2	0.78	NO	1.445e3	2.4205	2.4205	1.05
3	Total Tetra-Dioxins	22.70	9.958e3	1.120e4	7.179e2	9.411e2	0.76	NO	1.659e3	2.7791	2.7791	1.05
4	Total Tetra-Dioxins	23.94	1.049e4	1.251e4	1.053e3	1.591e3	0.66	NO	2.644e3	4.4290	4.4290	1.05
5	Total Tetra-Dioxins	24.06	1.371e4	1.554e4	9.182e2	1.070e3	0.86	NO	1.989e3	3.3312	3.3312	1.05
6	Total Tetra-Dioxins	24.28	6.925e3	7.504e3	3.647e2	6.030e2	0.60	YES	0.000e0	0.00000	1.4042	1.05
7	Total Tetra-Dioxins	24.57	4.623e3	5.133e3	4.364e2	4.858e2	0.90	YES	0.000e0	0.00000	1.4404	1.05
8	Total Tetra-Dioxins	24.73	9.973e3	1.740e4	9.392e2	1.303e3	0.72	NO	2.242e3	3.7556	3.7556	1.05
9	Total Tetra-Dioxins	25.09	9.888e3	1.131e4	6.229e2	7.905e2	0.79	NO	1.413e3	2.3677	2.3677	1.05
10	Total Tetra-Dioxins	25.51	9.047e3	1.450e4	6.794e2	9.981e2	0.68	NO	1.677e3	2.8101	2.8101	1.05
11	Total Tetra-Dioxins	25.67	5.043e3	6.768e3	3.604e2	4.129e2	0.87	NO	7.733e2	1.2954	1.2954	1.05
12	2,3,7,8-TCDD	25.80	5.691e3	8.605e3	4.065e2	6.743e2	0.60	YES	1.081e3	0.00000	1.5652	1.05
13	Total Tetra-Dioxins	26.12	1.327e4	1.577e4	7.705e2	8.413e2	0.92	YES	0.000e0	0.00000	2.4947	1.05
14	Total Tetra-Dioxins	26.75	6.581e3	8.265e3	3.571e2	4.458e2	0.80	NO	8.029e2	1.3450	1.3450	1.05

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.56	4.783e4	7.821e4	3.815e3	5.858e3	0.65	NO	9.673e3	20.760	20.760	0.834
2	Total Penta-Dioxins	29.05	2.473e4	5.283e4	1.437e3	2.598e3	0.55	NO	4.036e3	8.6614	8.6614	0.834
3	Total Penta-Dioxins	29.54	3.416e4	4.620e4	1.755e3	2.534e3	0.69	NO	4.289e3	9.2057	9.2057	0.834
4	Total Penta-Dioxins	29.71	1.830e4	2.940e4	1.149e3	1.567e3	0.73	YES	0.000e0	0.00000	5.4804	0.834
5	Total Penta-Dioxins	29.80	1.487e4	1.880e4	8.600e2	1.208e3	0.71	NO	2.068e3	4.4375	4.4375	0.834
6	Total Penta-Dioxins	30.03	3.803e4	4.972e4	1.463e3	4.597e3	0.32	YES	0.000e0	0.00000	8.1247	0.834
7	Total Penta-Dioxins	30.38	7.501e3	8.724e3	4.259e2	5.999e2	0.71	NO	1.026e3	2.2016	2.2016	0.834
8	1,2,3,7,8-PeCDD	30.77	9.969e3	1.999e4	7.326e2	1.000e3	0.73	YES	1.733e3	0.00000	3.4997	0.834
9	Total Penta-Dioxins	30.88	9.908e3	1.530e4	4.238e2	1.058e3	0.40	YES	0.000e0	0.00000	2.3533	0.834
10	Total Penta-Dioxins	31.19	1.041e4	1.007e4	4.000e2	4.706e2	0.85	YES	0.000e0	0.00000	1.6462	0.834

Dataset: U:\VG12.PRO\Results\200212R2\200212R2-12.qld

Last Altered: Thursday, March 12, 2020 16:52:01 Pacific Daylight Time

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Name: 200212R2_12, Date: 12-Feb-2020, Time: 22:55:09, ID: 1903738-08@10X PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.70	2.301e6	1.904e6	1.340e5	1.096e5	1.22	NO	2.436e5	580.87	580.87	2.61
2	Total Hexa-Dioxins	33.24	1.760e5	1.394e5	1.110e4	8.775e3	1.27	NO	1.988e4	47.398	47.398	2.61
3	Total Hexa-Dioxins	33.49	1.324e6	1.071e6	1.078e5	8.661e4	1.24	NO	1.944e5	463.61	463.61	2.61
4	Total Hexa-Dioxins	33.60	1.069e5	7.550e4	6.038e3	4.214e3	1.43	YES	0.000e0	0.00000	22.509	2.61
5	1,2,3,6,7,8-HxCDD	34.28	2.461e5	2.064e5	1.909e4	1.596e4	1.20	NO	3.505e4	80.319	80.319	2.58
6	Total Hexa-Dioxins	34.48	8.674e4	6.978e4	6.879e3	5.618e3	1.22	NO	1.250e4	29.797	29.797	2.61
7	1,2,3,7,8,9-HxCDD	34.55	7.781e4	6.504e4	4.435e3	3.455e3	1.28	NO	7.890e3	18.399	18.399	2.64

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.04	1.406e7	1.373e7	1.214e6	1.190e6	1.02	NO	2.405e6	7240.2	7240.2	11.9
2	1,2,3,4,6,7,8-HpCDD	38.09	1.009e7	1.001e7	8.991e5	8.898e5	1.01	NO	1.789e6	5386.7	5386.7	11.9

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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	20.23	1.609e4	2.766e4	1.563e3	2.169e3	0.72	NO	3.732e3	5.6694	5.6694	1.04
2	Total Tetra-Furans	20.83	8.899e4	1.111e5	7.879e3	1.042e4	0.76	NO	1.830e4	27.802	27.802	1.04
3	Total Tetra-Furans	21.29	5.595e3	7.851e3	3.920e2	5.802e2	0.68	NO	9.722e2	1.4767	1.4767	1.04
4	Total Tetra-Furans	21.38	3.751e3	6.389e3	2.893e2	4.690e2	0.62	YES	0.000e0	0.00000	1.0101	1.04
5	Total Tetra-Furans	21.77	1.998e4	2.456e4	2.036e3	2.795e3	0.73	NO	4.831e3	7.3382	7.3382	1.04
6	Total Tetra-Furans	22.23	2.636e4	3.168e4	2.321e3	2.965e3	0.78	NO	5.286e3	8.0287	8.0287	1.04
7	Total Tetra-Furans	22.65	9.796e3	9.472e3	5.519e2	4.918e2	1.12	YES	0.000e0	0.00000	1.3222	1.04
8	Total Tetra-Furans	23.18	7.479e3	1.177e4	5.593e2	8.496e2	0.66	NO	1.409e3	2.1401	2.1401	1.04
9	Total Tetra-Furans	23.35	3.687e4	4.261e4	3.599e3	4.576e3	0.79	NO	8.175e3	12.418	12.418	1.04
10	Total Tetra-Furans	23.44	1.112e4	2.041e4	6.283e2	1.154e3	0.54	YES	0.000e0	0.00000	2.1938	1.04
11	Total Tetra-Furans	24.01	1.782e5	2.342e5	8.950e3	1.168e4	0.77	NO	2.063e4	31.339	31.339	1.04
12	Total Tetra-Furans	24.25	4.751e3	5.795e3	2.083e2	4.878e2	0.43	YES	0.000e0	0.00000	0.72725	1.04
13	Total Tetra-Furans	24.43	2.679e3	4.248e3	2.244e2	3.389e2	0.66	NO	5.633e2	0.85556	0.85556	1.04
14	Total Tetra-Furans	24.67	7.419e3	7.301e3	3.458e2	4.966e2	0.70	NO	8.424e2	1.2795	1.2795	1.04
15	Total Tetra-Furans	24.78	1.601e4	1.839e4	8.279e2	1.378e3	0.60	YES	0.000e0	0.00000	2.8905	1.04
16	2,3,7,8-TCDF	24.90	1.218e5	1.573e5	9.494e3	1.189e4	0.80	NO	2.138e4	32.476	32.476	1.04
17	Total Tetra-Furans	25.26	1.045e4	1.406e4	9.050e2	1.071e3	0.85	NO	1.976e3	3.0007	3.0007	1.04
18	Total Tetra-Furans	26.93	2.537e4	2.847e4	2.175e3	2.675e3	0.81	NO	4.851e3	7.3679	7.3679	1.04

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	4.222e5	2.600e5	2.897e4	1.821e4	1.59	NO	4.718e4	64.100	64.100	0.374

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Name: 200212R2_12, Date: 12-Feb-2020, Time: 22:55:09, ID: 1903738-08@10X PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.35	2.198e4	1.191e4	1.420e3	8.153e2	1.74	NO	2.235e3	3.0370	3.0370	0.775
2	Total Penta-Furans	28.50	2.907e5	1.790e5	1.990e4	1.278e4	1.56	NO	3.268e4	44.405	44.405	0.775
3	Total Penta-Furans	29.08	9.559e4	7.547e4	6.256e3	4.346e3	1.44	NO	1.060e4	14.405	14.405	0.775
4	Total Penta-Furans	29.31	4.462e4	2.603e4	2.376e3	1.393e3	1.71	NO	3.769e3	5.1211	5.1211	0.775
5	1,2,3,7,8-PeCDF	29.49	2.708e5	1.830e5	1.730e4	1.038e4	1.67	NO	2.768e4	35.308	35.308	0.712
6	Total Penta-Furans	29.77	1.417e5	8.497e4	7.419e3	4.889e3	1.52	NO	1.231e4	16.723	16.723	0.775
7	2,3,4,7,8-PeCDF	30.50	2.020e5	1.117e5	1.465e4	8.767e3	1.67	NO	2.342e4	32.458	32.458	0.807
8	Total Penta-Furans	31.41	1.229e4	1.239e4	6.568e2	5.486e2	1.20	YES	0.000e0	0.00000	1.4682	0.775

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.15	7.791e4	6.634e4	4.466e3	3.868e3	1.15	NO	8.334e3	16.903	16.903	1.20
2	Total Hexa-Furans	32.30	2.339e5	2.042e5	1.319e4	1.148e4	1.15	NO	2.467e4	50.034	50.034	1.20
3	Total Hexa-Furans	32.85	6.419e5	5.329e5	3.727e4	3.041e4	1.23	NO	6.769e4	137.28	137.28	1.20
4	1,2,3,4,7,8-HxCDF	33.31	2.308e5	1.966e5	1.393e4	1.184e4	1.18	NO	2.577e4	51.284	51.284	1.07
5	1,2,3,6,7,8-HxCDF	33.43	6.271e4	5.627e4	4.255e3	3.633e3	1.17	NO	7.888e3	15.096	15.096	1.02
6	2,3,4,6,7,8-HxCDF	34.01	3.758e4	3.317e4	2.212e3	2.109e3	1.05	YES	4.321e3	0.00000	8.2332	1.29
7	1,2,3,7,8,9-HxCDF	34.94	2.742e4	1.863e4	1.941e3	1.572e3	1.24	NO	3.513e3	9.0673	9.0673	1.70

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	36.65	4.383e5	4.470e5	3.631e4	3.784e4	0.96	NO	7.415e4	209.71	209.71	2.45
2	Total Hepta-Furans	37.04	9.394e3	8.384e3	4.159e2	3.663e2	1.14	NO	7.823e2	2.6640	2.6640	2.84
3	Total Hepta-Furans	37.25	1.534e6	1.501e6	1.303e5	1.322e5	0.99	NO	2.625e5	894.00	894.00	2.84
4	Total Hepta-Furans	38.12	6.309e3	8.494e3	3.742e2	3.863e2	0.97	NO	7.605e2	2.5901	2.5901	2.84
5	1,2,3,4,7,8,9-HpCDF	38.68	3.792e4	3.948e4	2.789e3	2.651e3	1.05	NO	5.440e3	20.220	20.220	2.97

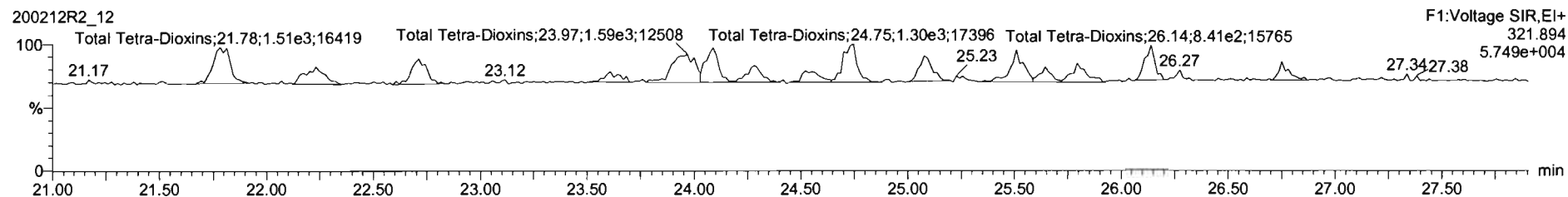
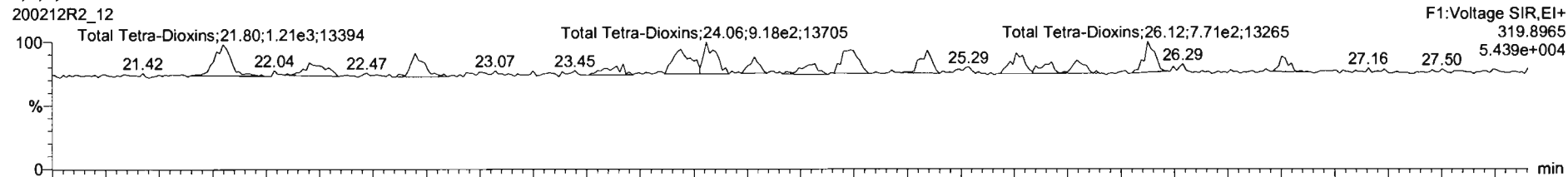
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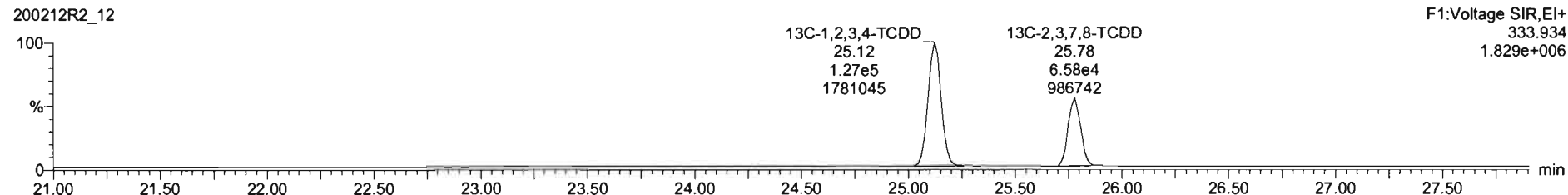
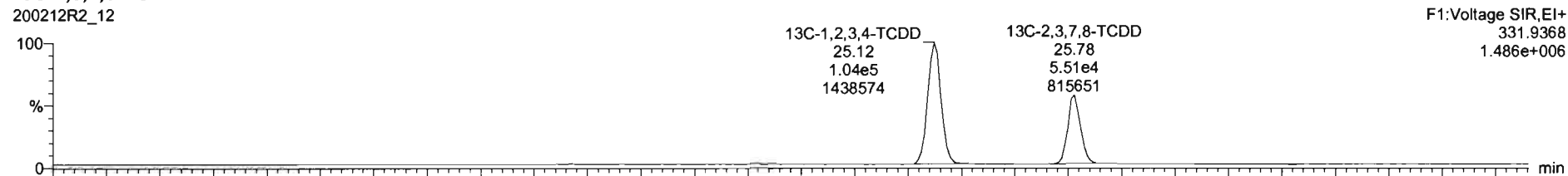
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Name: 200212R2_12, Date: 12-Feb-2020, Time: 22:55:09, ID: 1903738-08@10X PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

2,3,7,8-TCDD



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



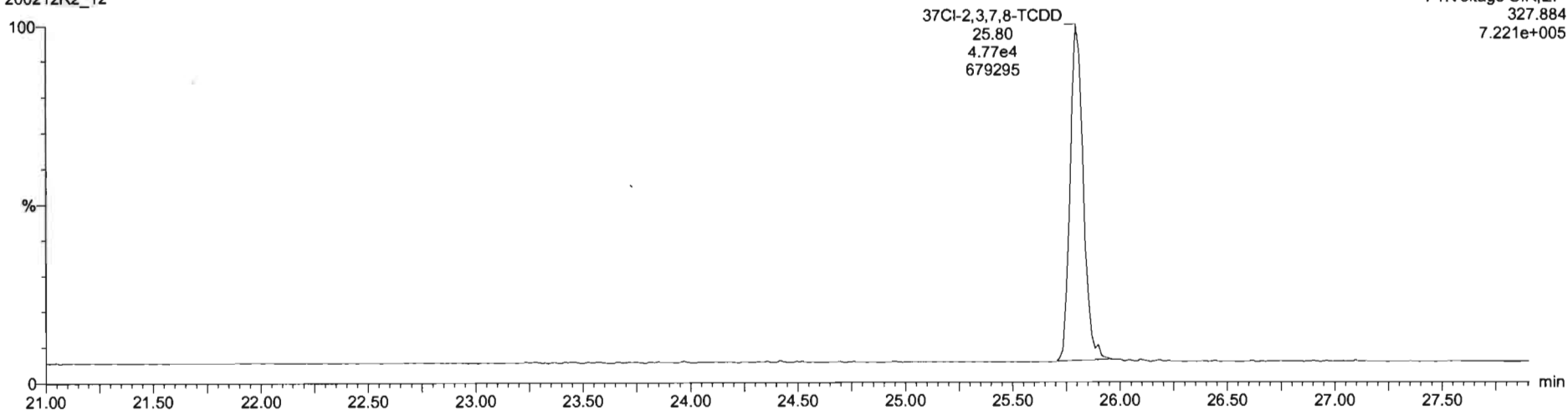
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Name: 200212R2_12, Date: 12-Feb-2020, Time: 22:55:09, ID: 1903738-08@10X PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

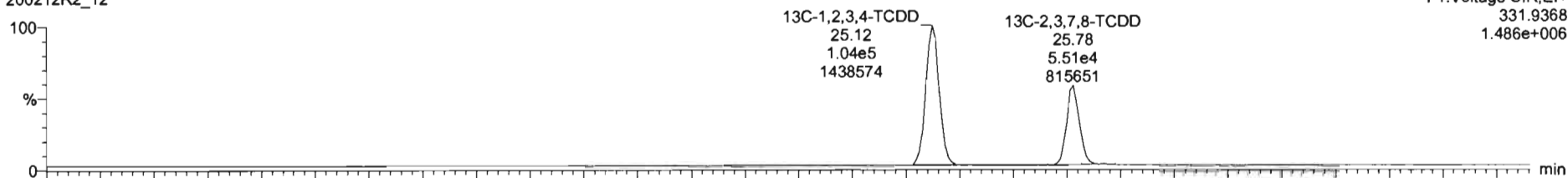
37Cl-2,3,7,8-TCDD

200212R2_12

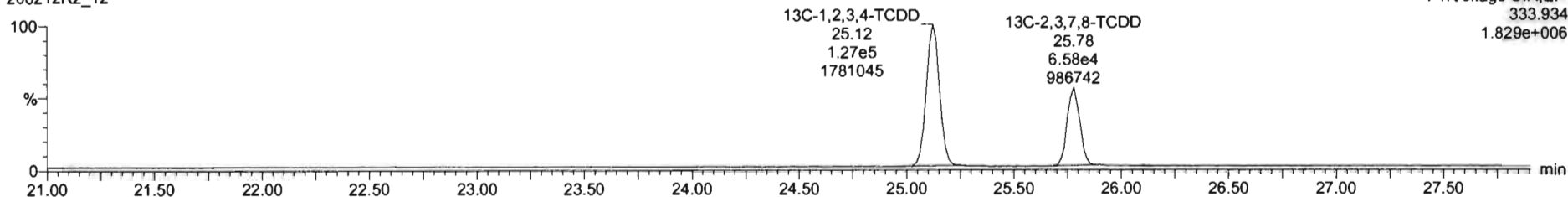


13C-1,2,3,4-TCDD

200212R2_12



200212R2_12



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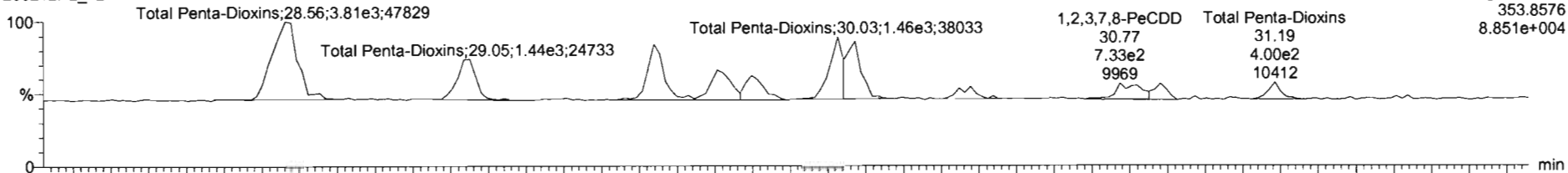
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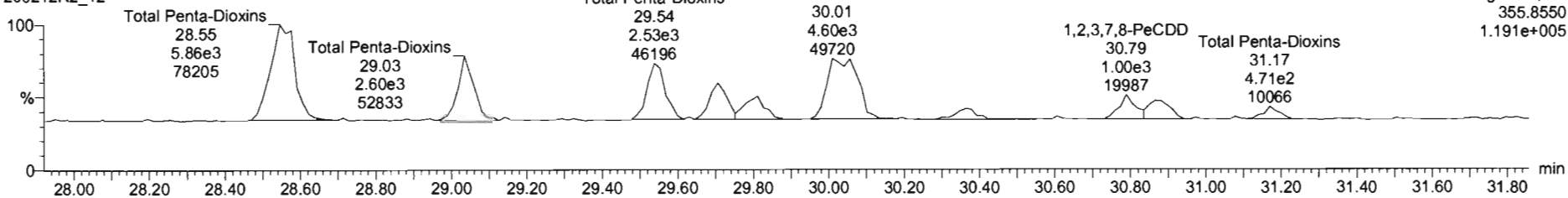
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1,2,3,7,8-PeCDD

200212R2_12

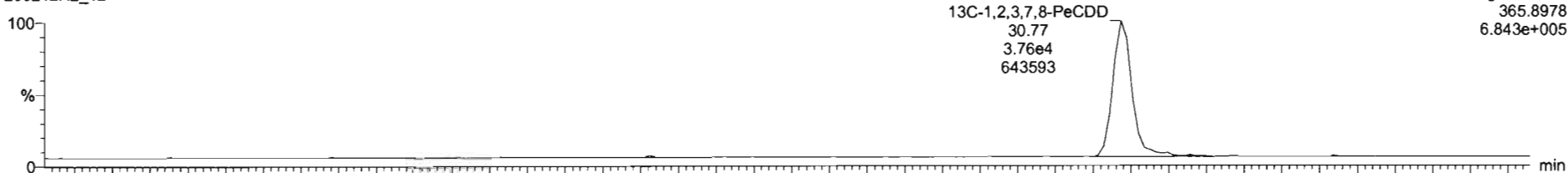


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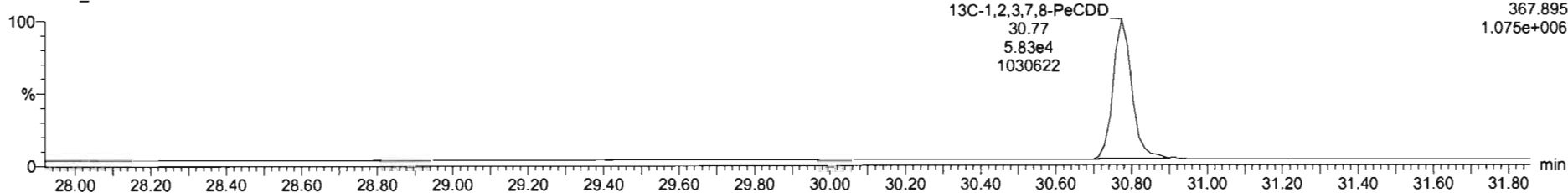


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200212R2_12



200212R2_12



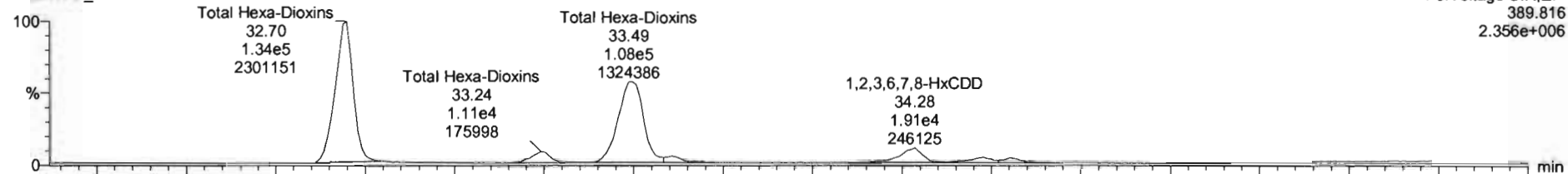
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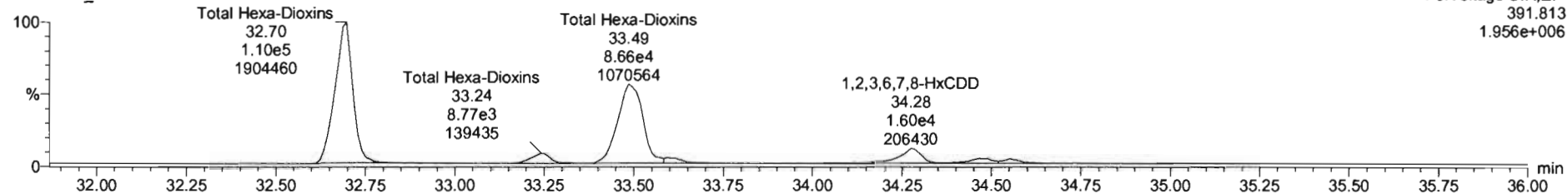
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1,2,3,4,7,8-HxCDD

200212R2_12

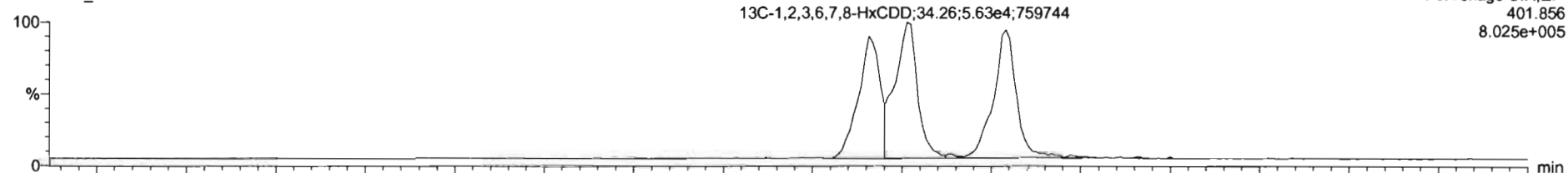


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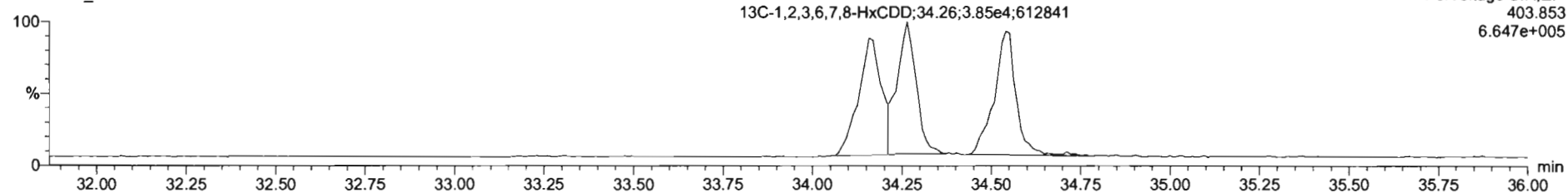


13C-1,2,3,4,7,8-HxCDD

200212R2_12



200212R2_12



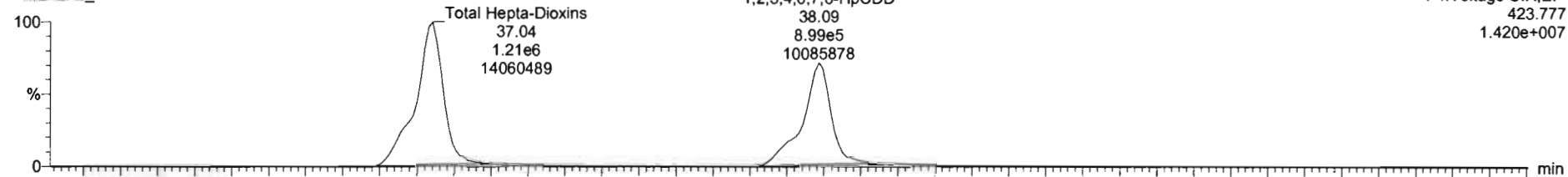
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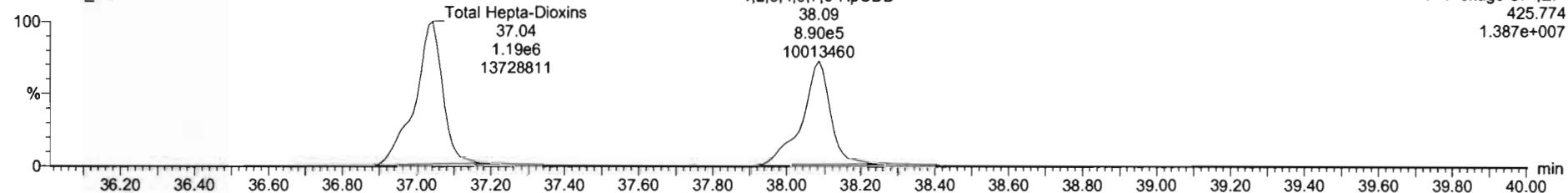
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1,2,3,4,6,7,8-HpCDD

200212R2_12

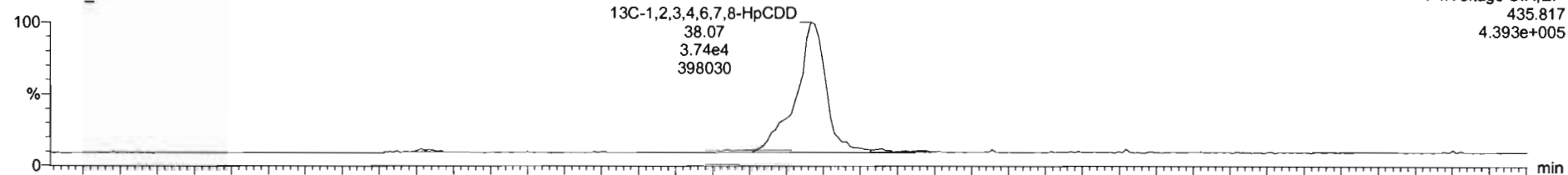


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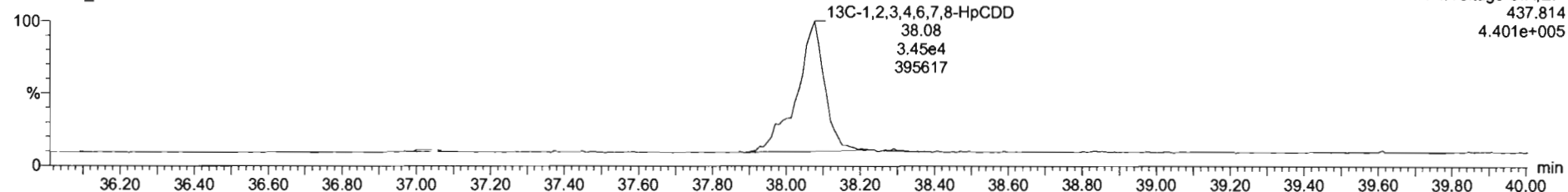


13C-1,2,3,4,6,7,8-HpCDD

200212R2_12



200212R2_12



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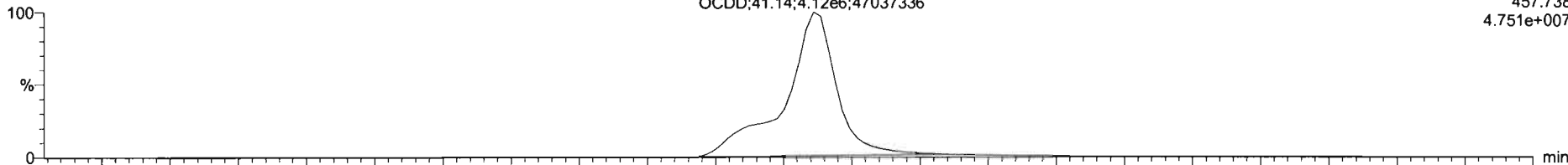
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OCDD

200212R2_12

OCDD;41.14;4.12e6;47037336

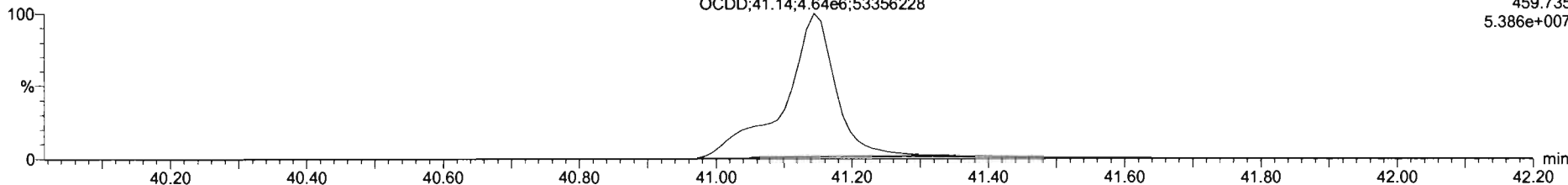
F5:Voltage SIR,EI+
457.738
4.751e+007



200212R2_12

OCDD;41.14;4.64e6;53356228

F5:Voltage SIR,EI+
459.735
5.386e+007

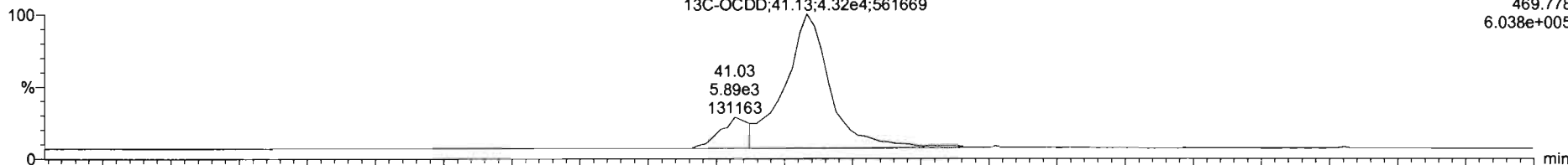


13C-OCDD

200212R2_12

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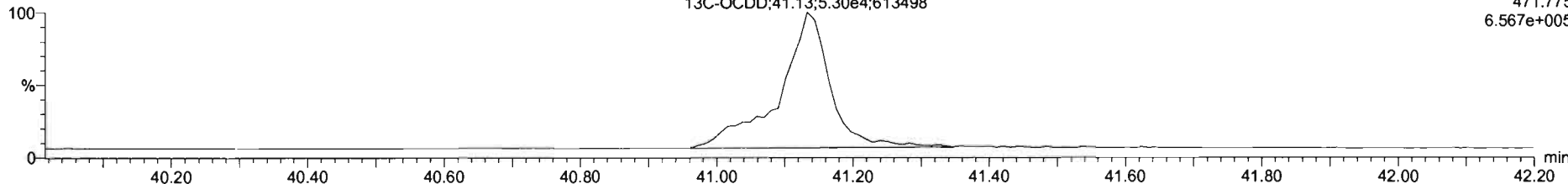
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469.778
6.038e+005

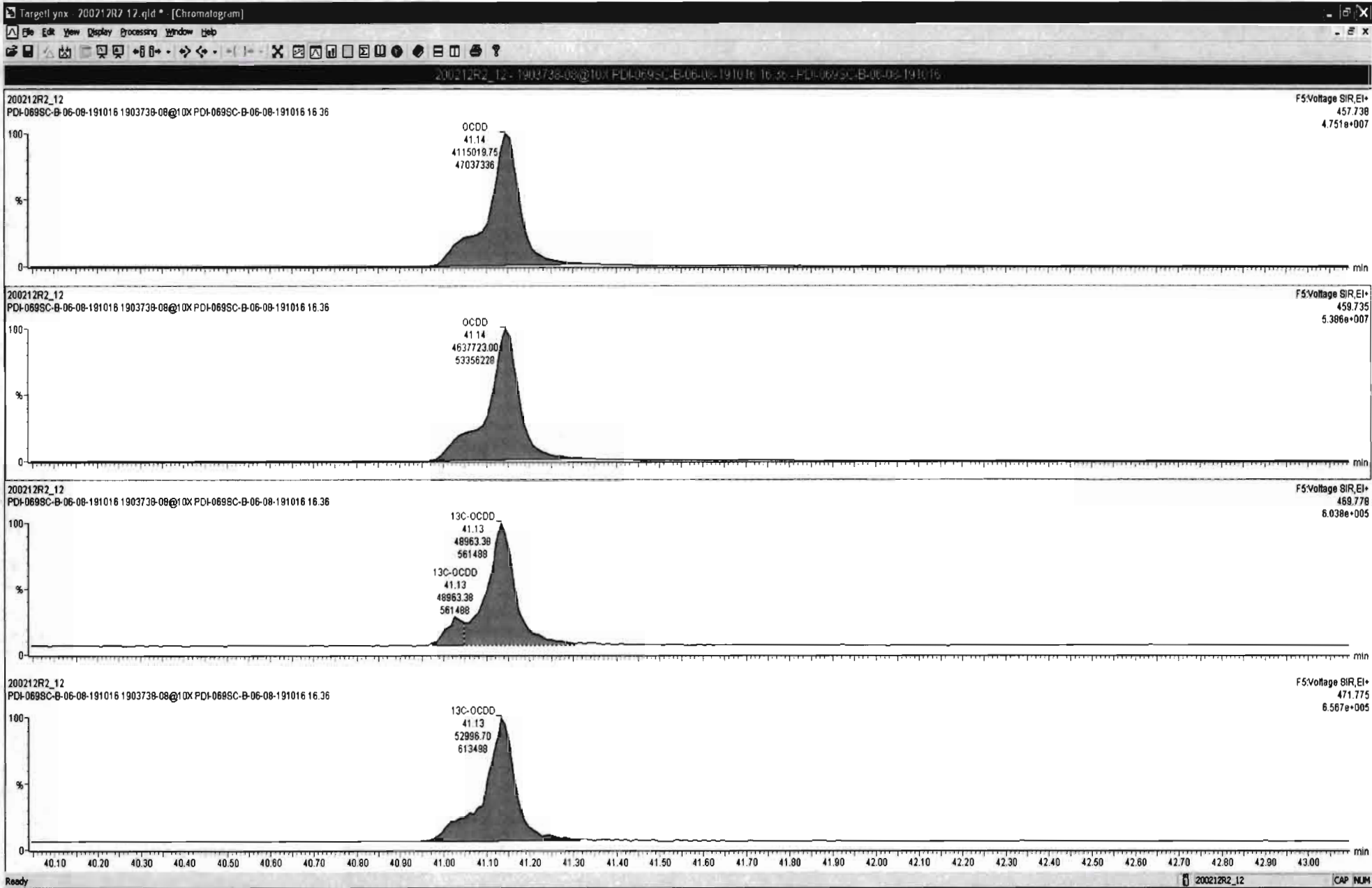


200212R2_12

13C-OCDD;41.13;5.30e4;613498

F5:Voltage SIR,EI+
471.775
6.567e+005

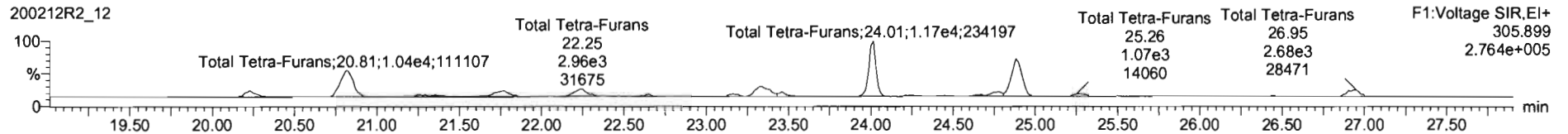
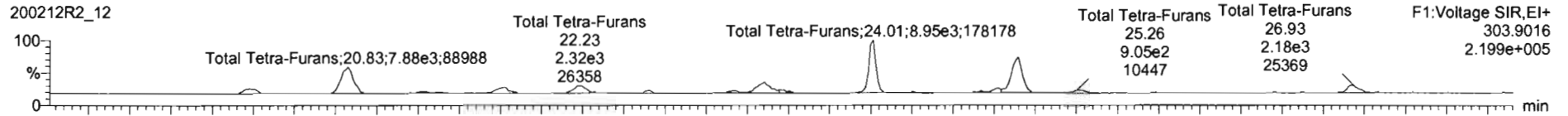




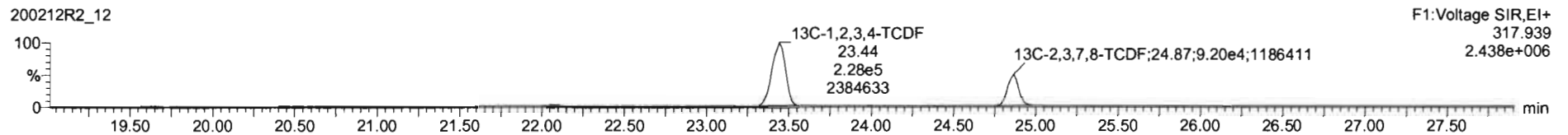
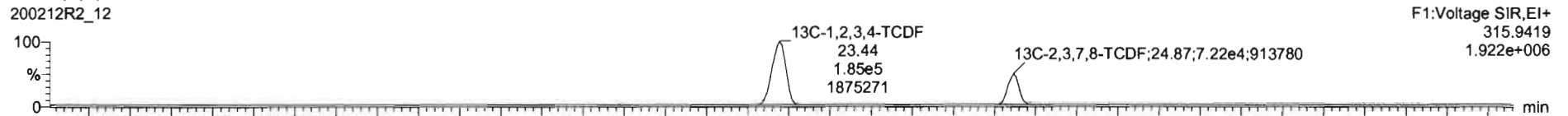
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Name: 200212R2_12, Date: 12-Feb-2020, Time: 22:55:09, ID: 1903738-08@10X PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

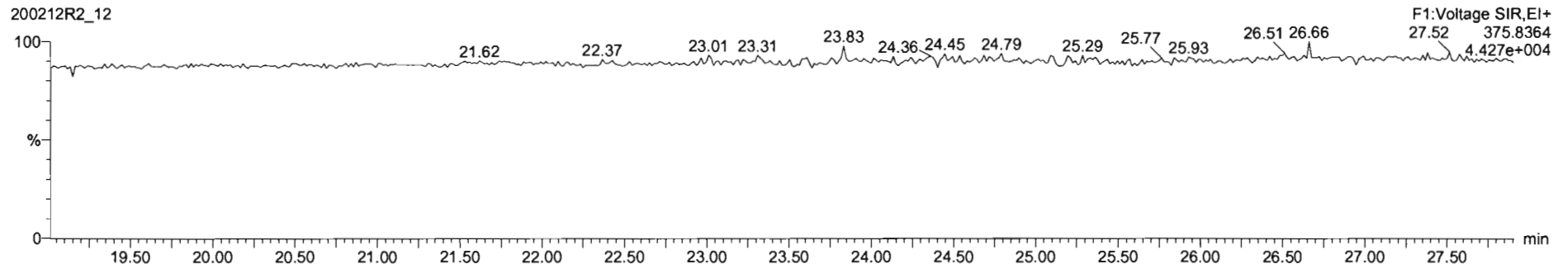
2,3,7,8-TCDF



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



DPE1



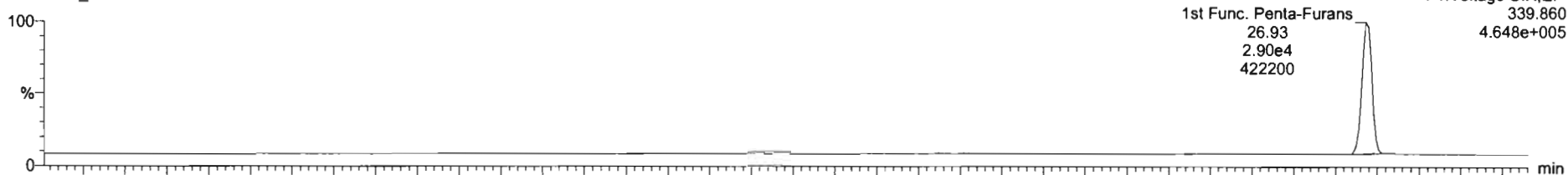
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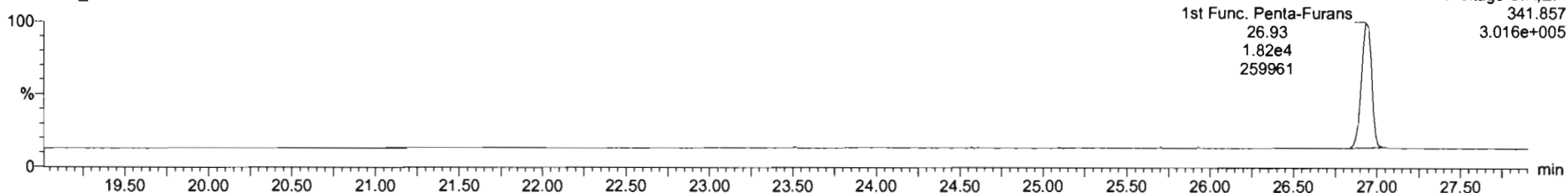
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1st Func. Penta-Furans

200212R2_12

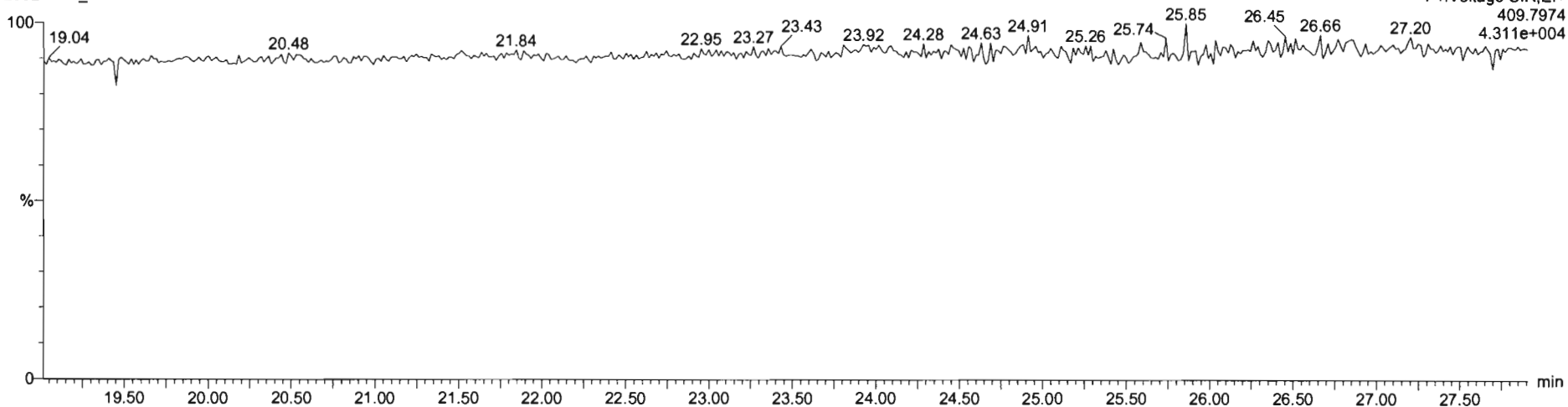


200212R2_12



DPE6

200212R2_12

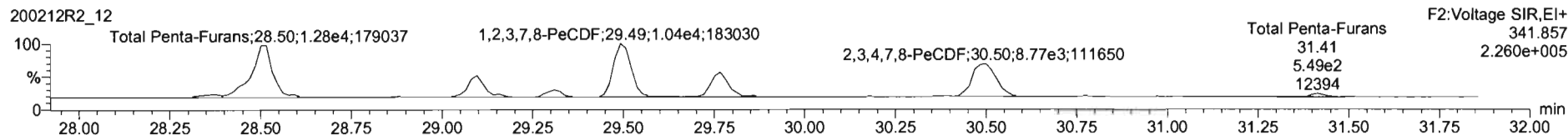
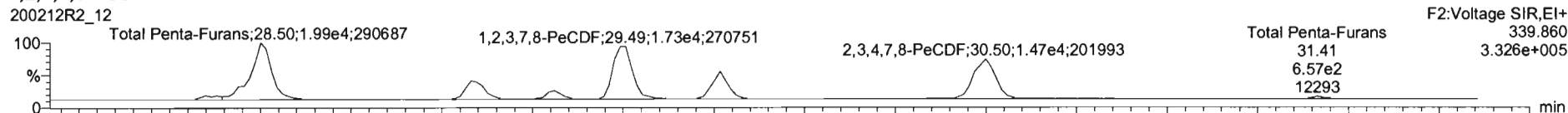


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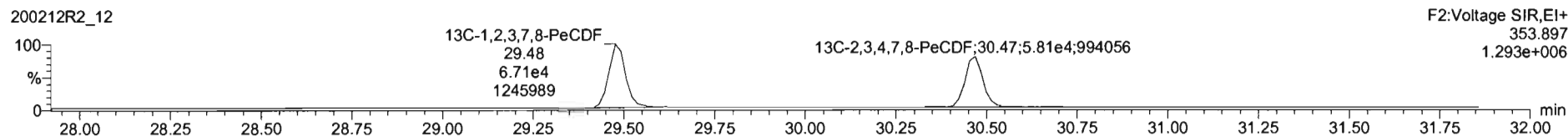
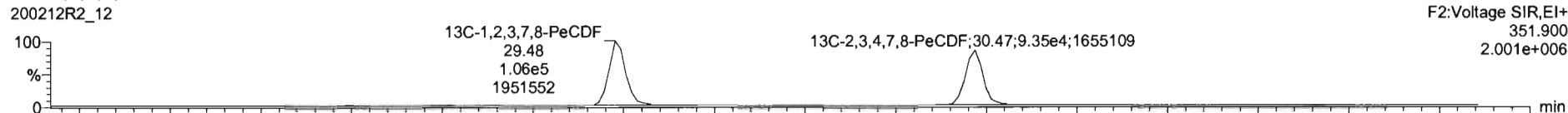
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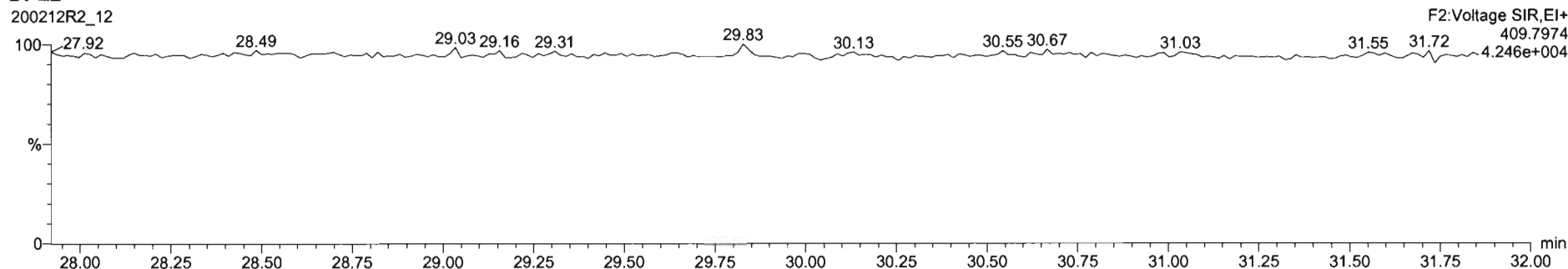
1,2,3,7,8-PeCDF



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



DPE2



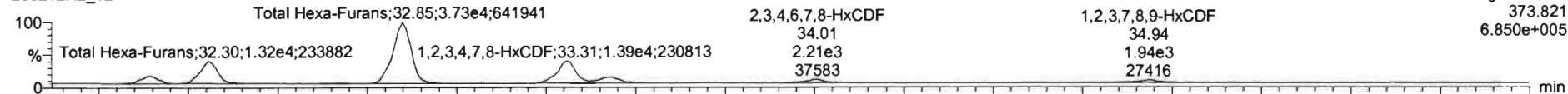
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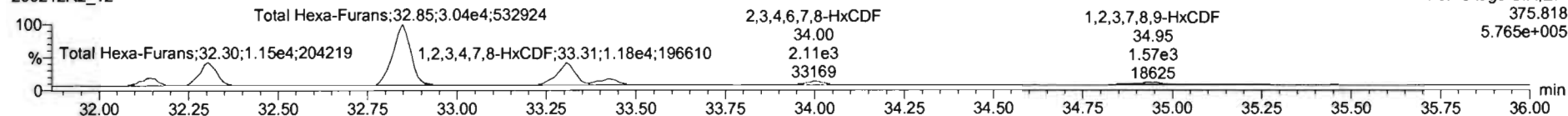
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1,2,3,4,7,8-HxCDF

200212R2_12

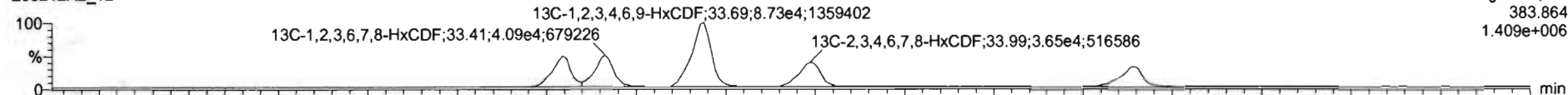


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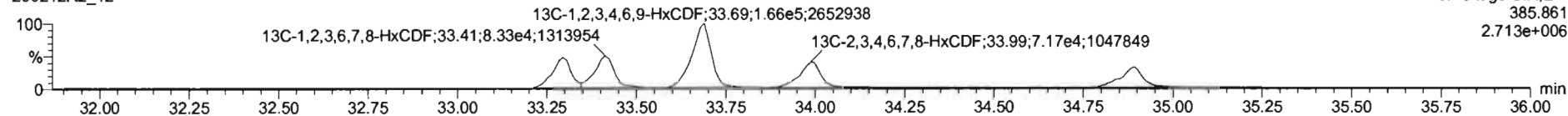


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200212R2_12

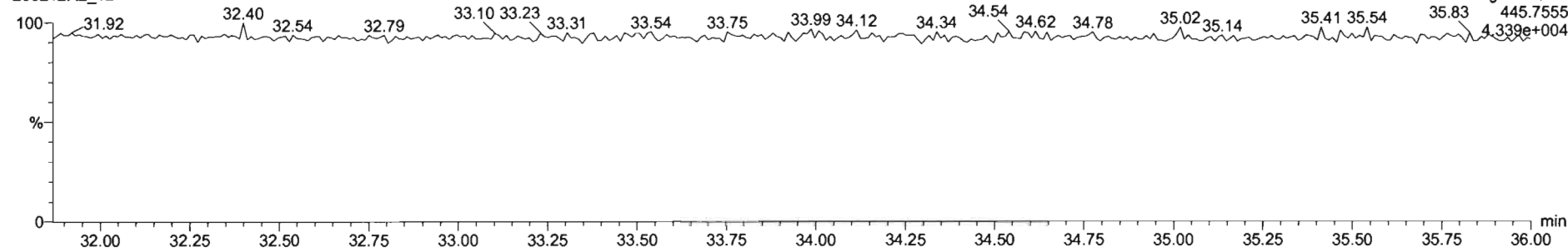


200212R2_12



DPE3

200212R2_12

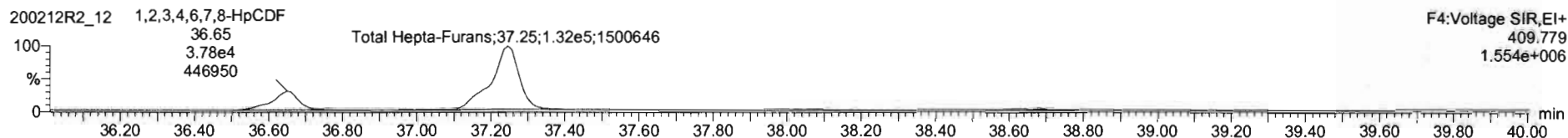
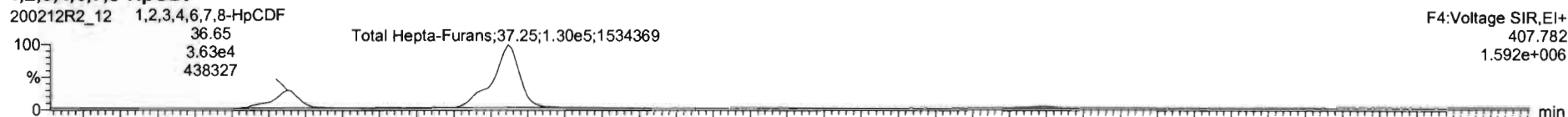


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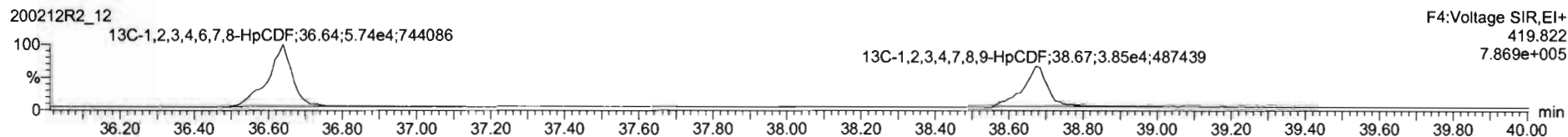
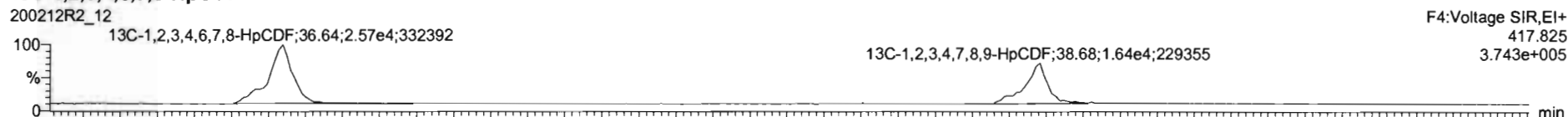
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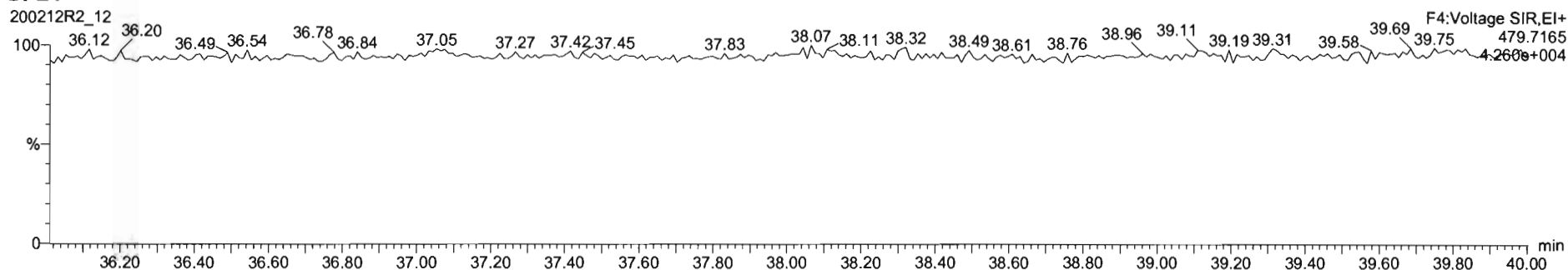
1,2,3,4,6,7,8-HpCDF



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



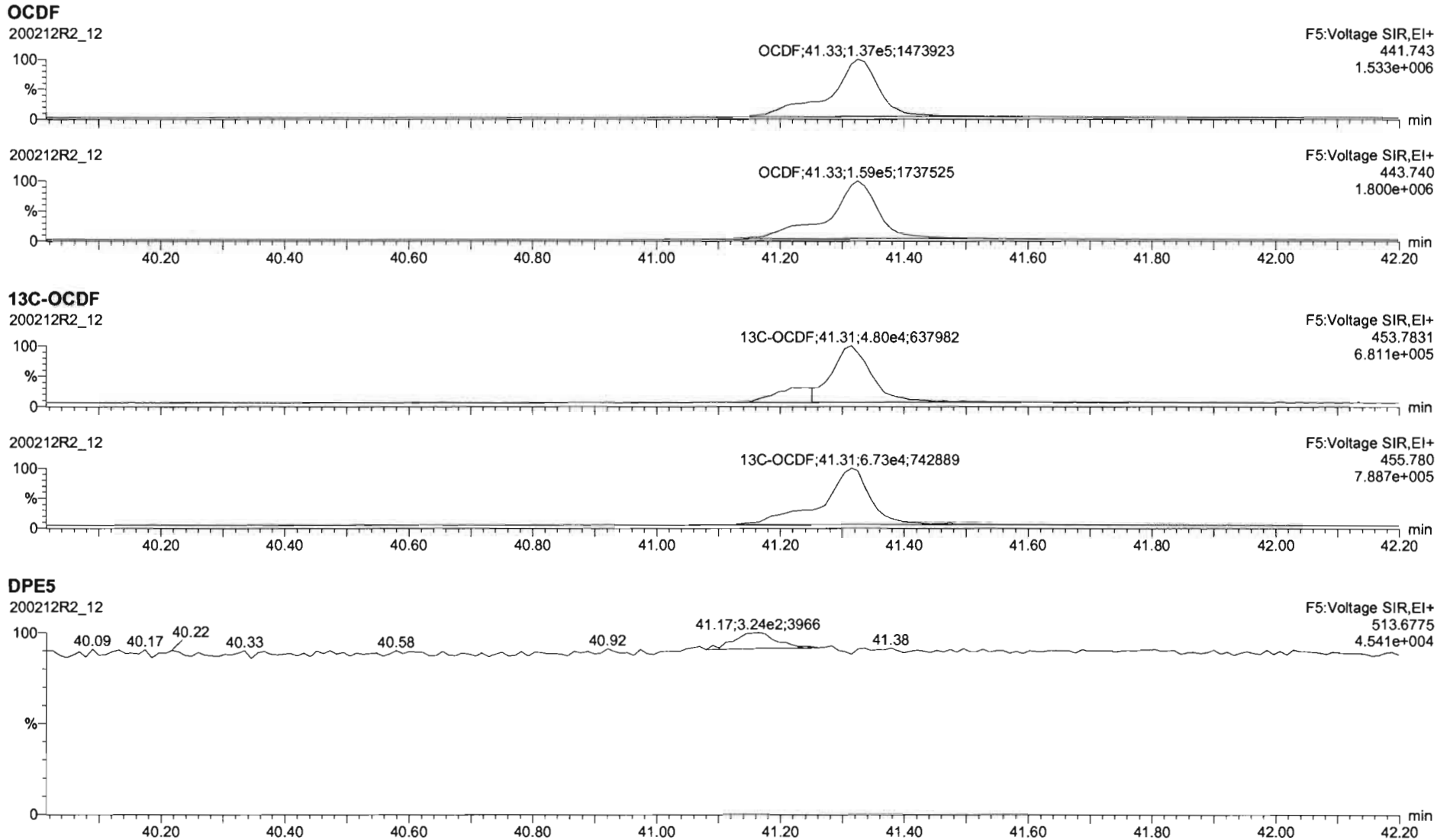
DPE4



Dataset: U:\VG12.PRO\Results\200212R2\200212R2-12.qld

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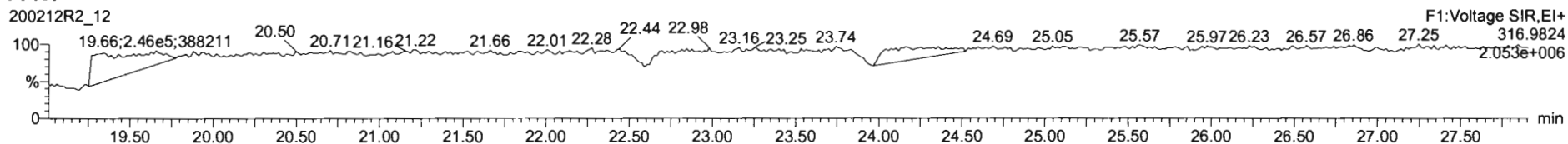
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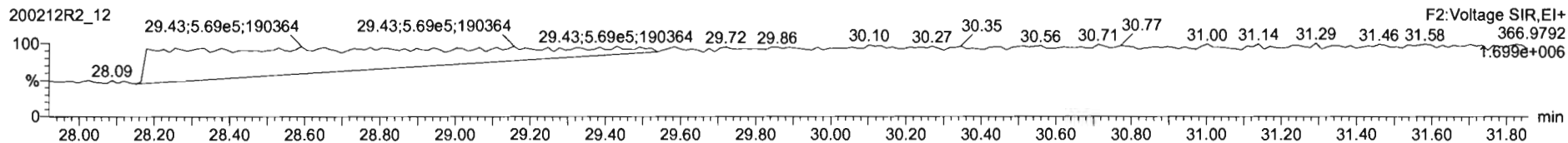
Printed: Thursday, March 12, 2020 16:46:05 Pacific Daylight Time

Name: 200212R2_12, Date: 12-Feb-2020, Time: 22:55:09, ID: 1903738-08@10X PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

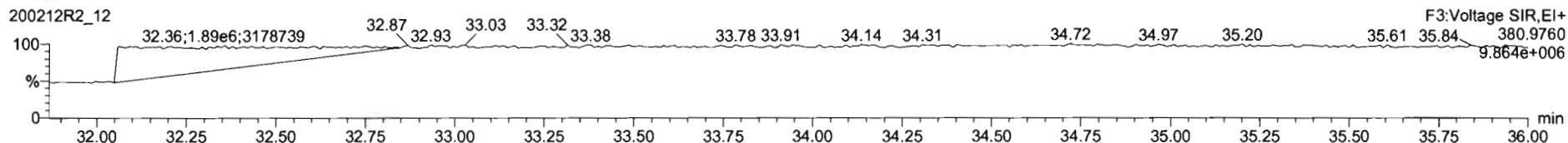
PFK1



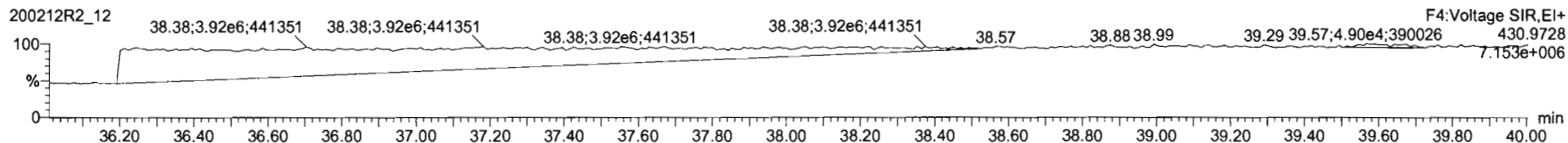
PFK2



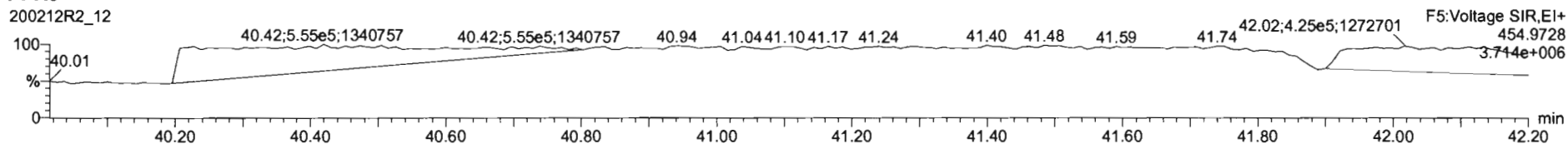
PFK3



PFK4



PFK5



CONFIRMATION

Dataset: U:\VG12.PRO\Results\200311R1\200311R1-4.qld

Last Altered: Wednesday, March 11, 2020 13:02:51 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 13:03:15 Pacific Daylight Time

GRB 03/11/2020

CT 03/12/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R1_4, Date: 11-Mar-2020, Time: 10:13:49, ID: 1903738-01RE1 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.76e5	0.73	NO	0.821	10.002	✓16.52	16.923		0.0987
2	2 13C-2,3,7,8-TCDF	2.53e6	0.77	NO	1.10	10.002	16.49	187.81	93.9	0.279
3	3 13C-1,2,3,4-TCDF	2.44e6	0.78	NO	1.00	10.002	14.40	199.96	100	0.307

Dataset: Untitled

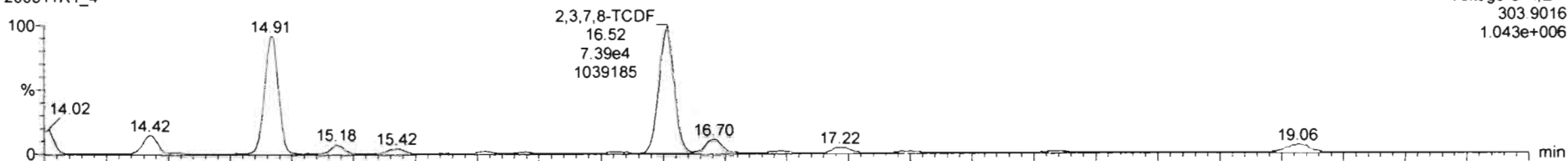
Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

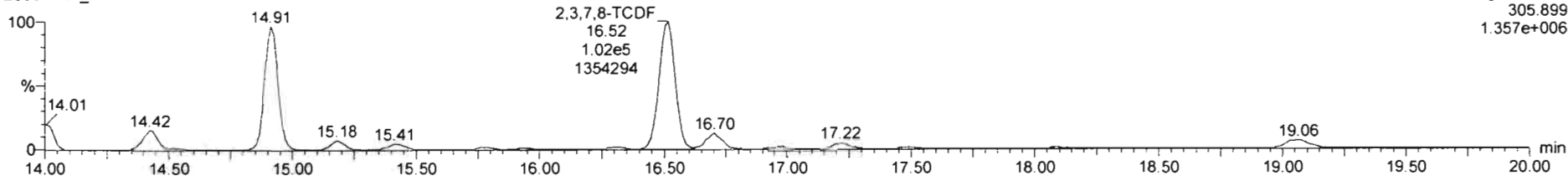
Name: 200311R1_4, Date: 11-Mar-2020, Time: 10:13:49, ID: 1903738-01RE1 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

2,3,7,8-TCDF

200311R1_4

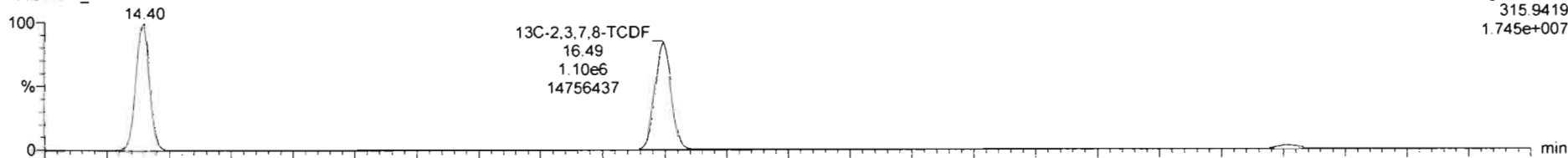


200311R1_4

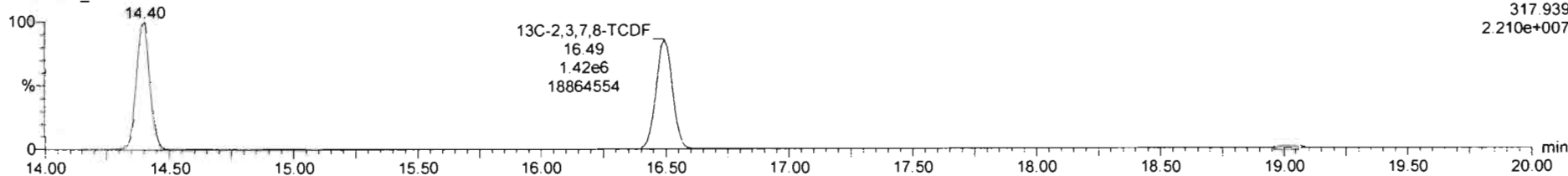


13C-2,3,7,8-TCDF

200311R1_4



200311R1_4



Dataset: Untitled

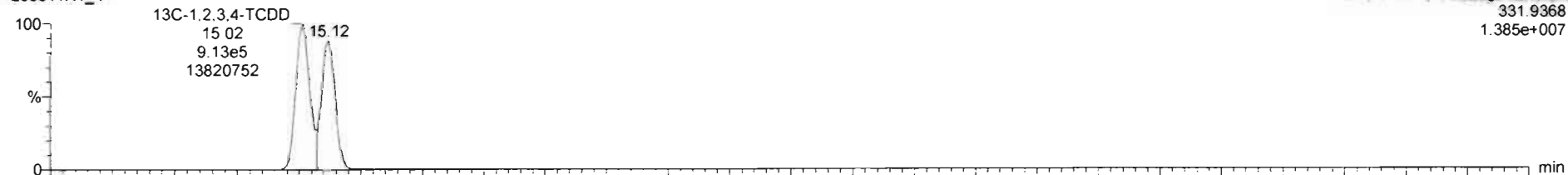
Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

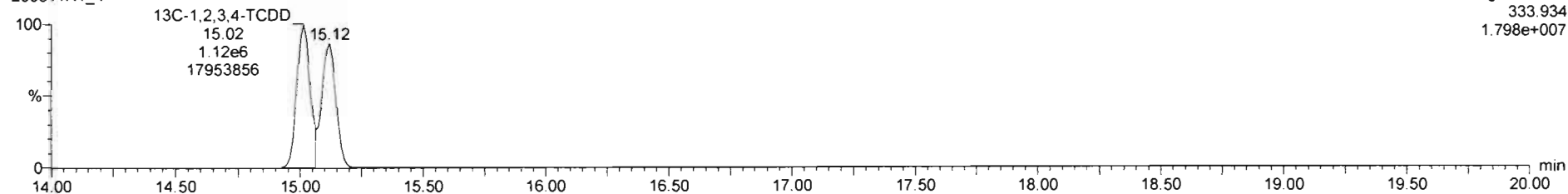
Name: 200311R1_4, Date: 11-Mar-2020, Time: 10:13:49, ID: 1903738-01RE1 PDI-059SC-B-00-02-191016 18.8, Description: PDI-059SC-B-00-02-191016

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

200311R1_4

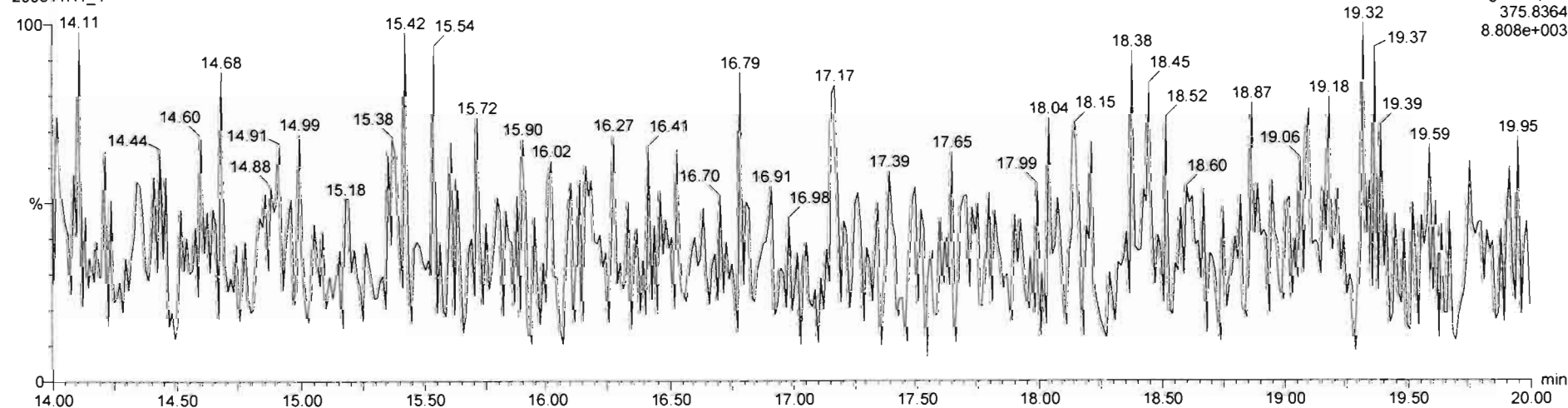


200311R1_4



DPE1

200311R1_4



Dataset: U:\VG12.PRO\Results\200311R1\200311R1-5.qld

Last Altered: Wednesday, March 11, 2020 13:03:23 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 13:03:41 Pacific Daylight Time

GPB 03/11/2020

03/12/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R1_5, Date: 11-Mar-2020, Time: 10:44:12, ID: 1903738-02RE1 PDI-059SC-B-02-04-191016 12.59, Description: PDI-059SC-B-02-04-191016

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.72e4	0.74	NO	0.821	10.034	✓16.52	1.7920		0.0893
2	2 13C-2,3,7,8-TCDF	2.34e6	0.77	NO	1.10	10.034	16.49	174.02	87.3	0.302
3	3 13C-1,2,3,4-TCDF	2.43e6	0.79	NO	1.00	10.034	14.40	199.32	100	0.332

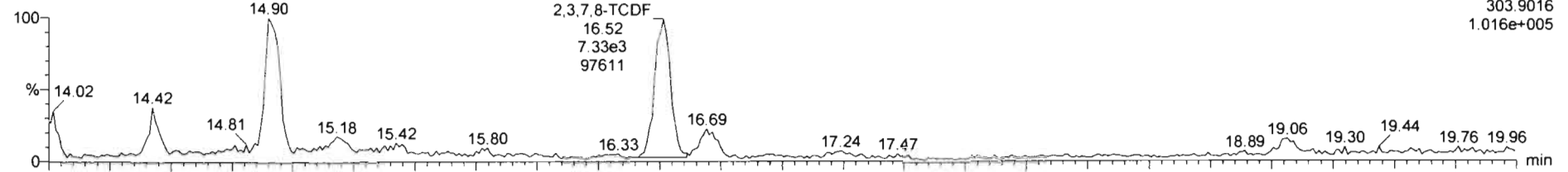
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

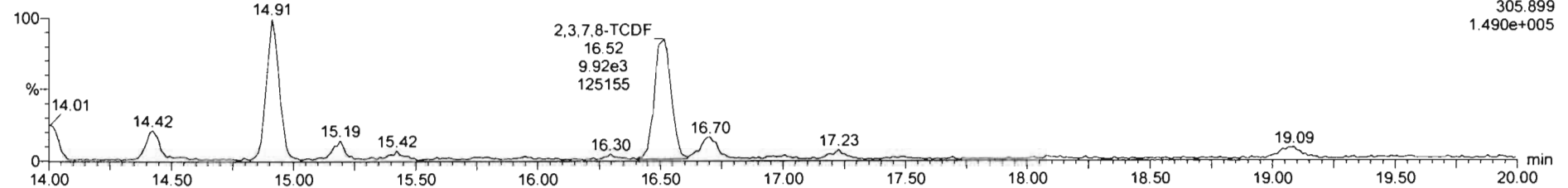
Name: 200311R1_5, Date: 11-Mar-2020, Time: 10:44:12, ID: 1903738-02RE1 PDI-059SC-B-02-04-191016 12.59, Description: PDI-059SC-B-02-04-191016

2,3,7,8-TCDF

200311R1_5

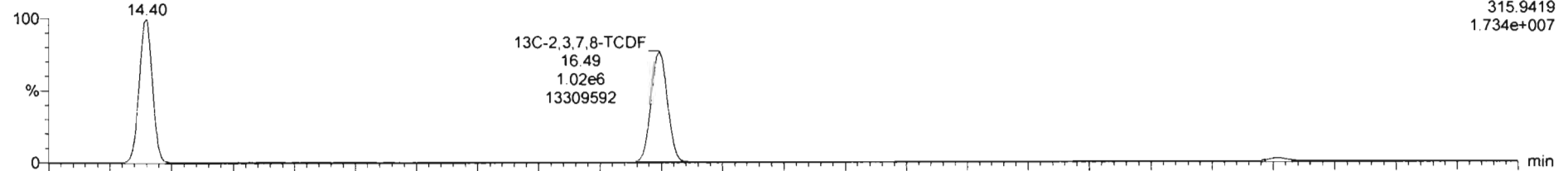


200311R1_5

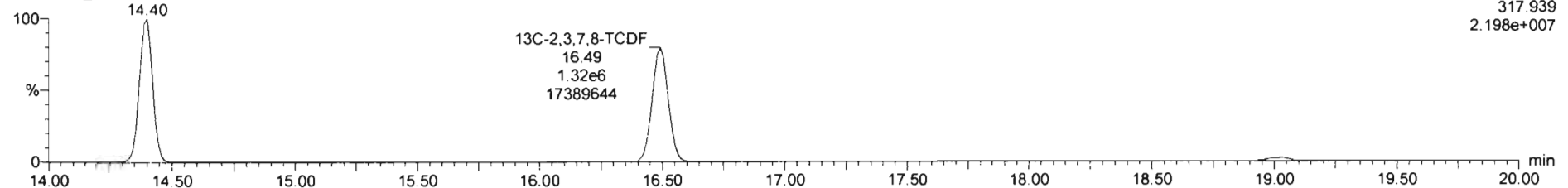


13C-2,3,7,8-TCDF

200311R1_5



200311R1_5



Dataset: Untitled

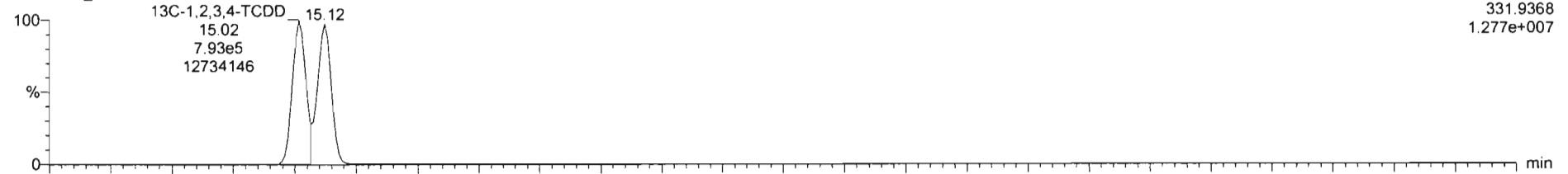
Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

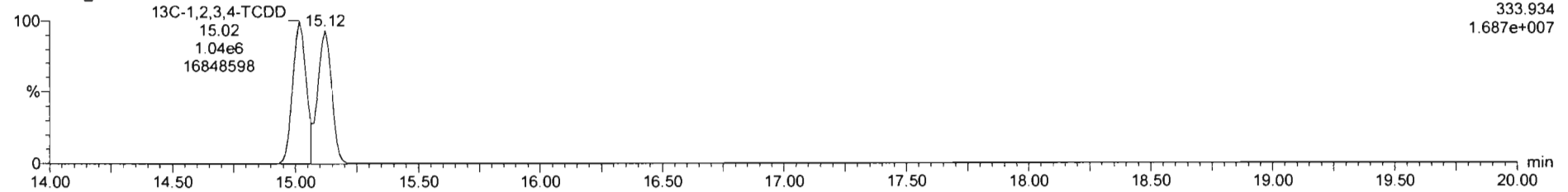
Name: 200311R1_5, Date: 11-Mar-2020, Time: 10:44:12, ID: 1903738-02RE1 PDI-059SC-B-02-04-191016 12.59, Description: PDI-059SC-B-02-04-191016

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

200311R1_5

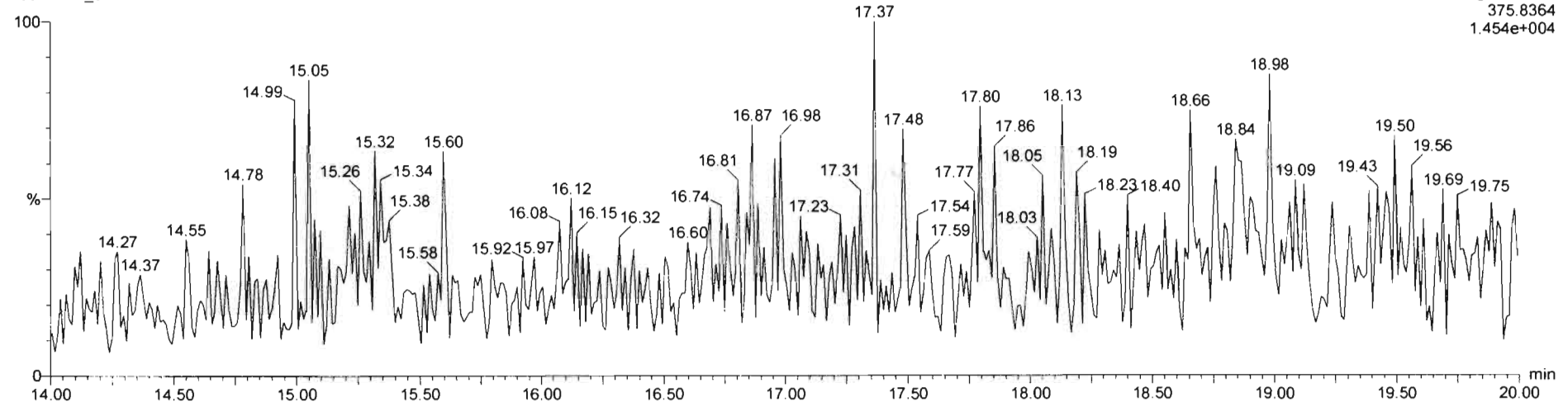


200311R1_5



DPE1

200311R1_5



Dataset: U:\VG12.PRO\Results\200311R1\200311R1-6.qld

Last Altered: Wednesday, March 11, 2020 13:03:45 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 13:04:44 Pacific Daylight Time

GRB 03/11/2020

03/12/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R1_6, Date: 11-Mar-2020, Time: 11:14:39, ID: 1903738-05RE1 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.51e6	0.75	NO	0.821	10.065	✓ 16.52	282.34		0.183
2	2 13C-2,3,7,8-TCDF	2.15e6	0.78	NO	1.10	10.065	16.49	163.74	82.4	0.272
3	3 13C-1,2,3,4-TCDF	2.37e6	0.78	NO	1.00	10.065	14.40	198.70	100	0.299

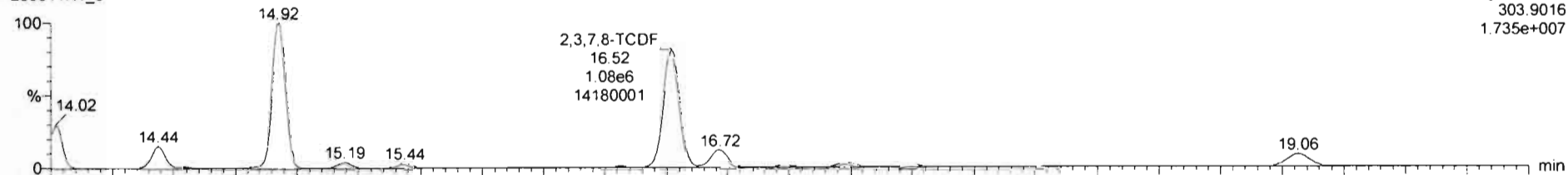
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

Name: 200311R1_6, Date: 11-Mar-2020, Time: 11:14:39, ID: 1903738-05RE1 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

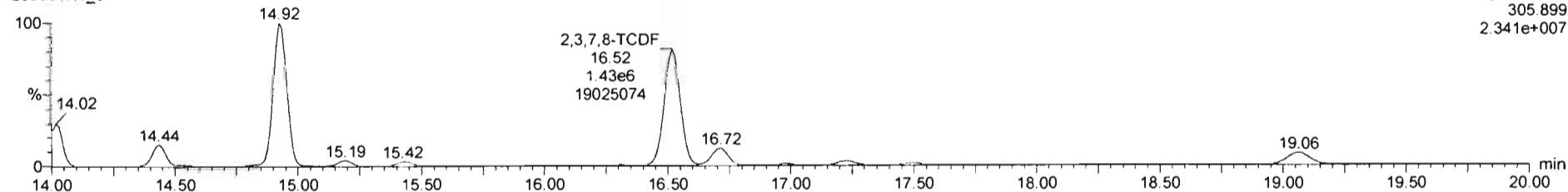
2,3,7,8-TCDF

200311R1_6



Voltage SIR, EI+
303.9016
1.735e+007

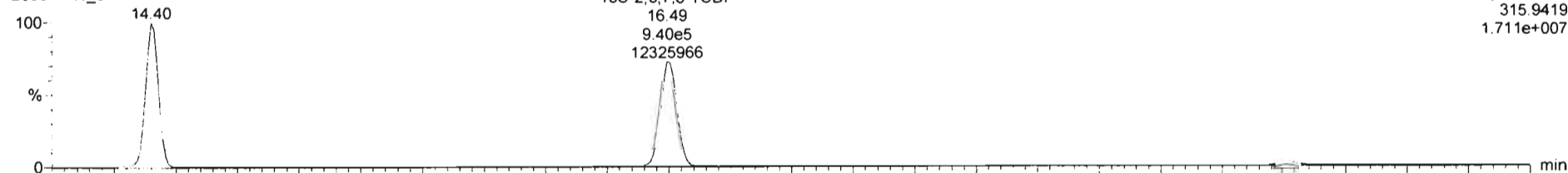
200311R1_6



Voltage SIR, EI+
305.899
2.341e+007

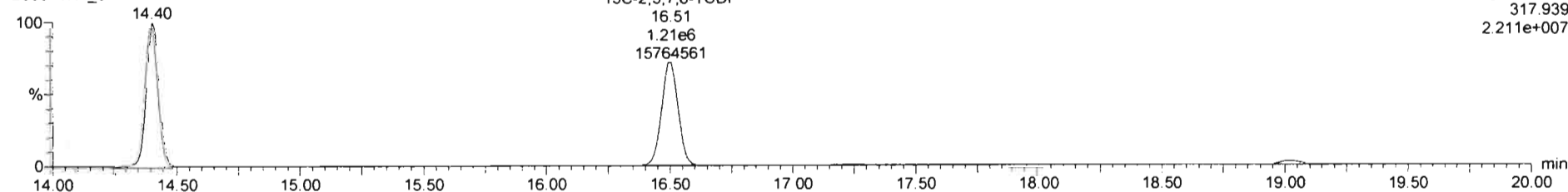
13C-2,3,7,8-TCDF

200311R1_6



Voltage SIR, EI+
315.9419
1.711e+007

200311R1_6



Voltage SIR, EI+
317.939
2.211e+007

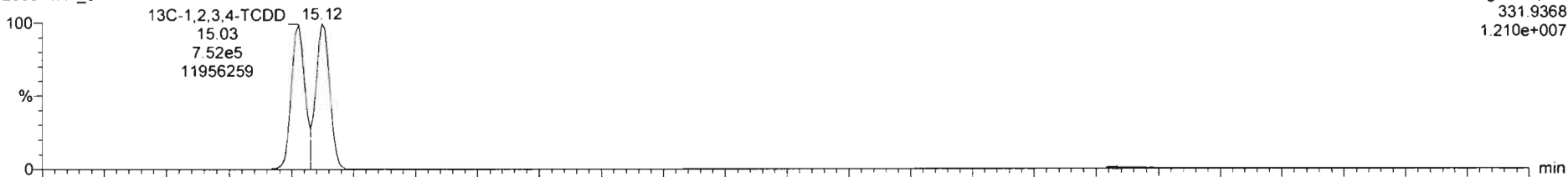
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

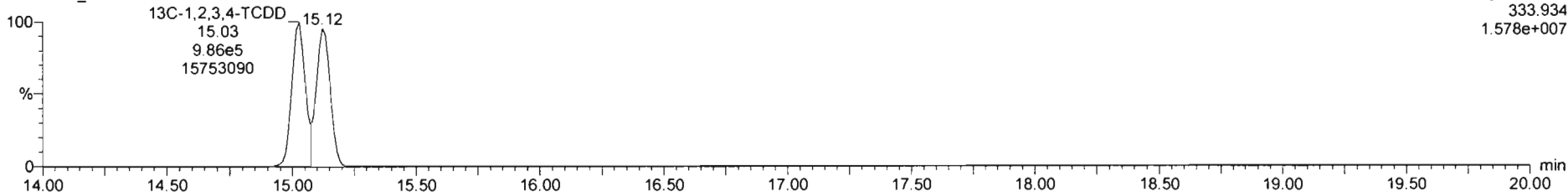
Name: 200311R1_6, Date: 11-Mar-2020, Time: 11:14:39, ID: 1903738-05RE1 PDI-069SC-B-00-02-191016 17.26, Description: PDI-069SC-B-00-02-191016

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

200311R1_6

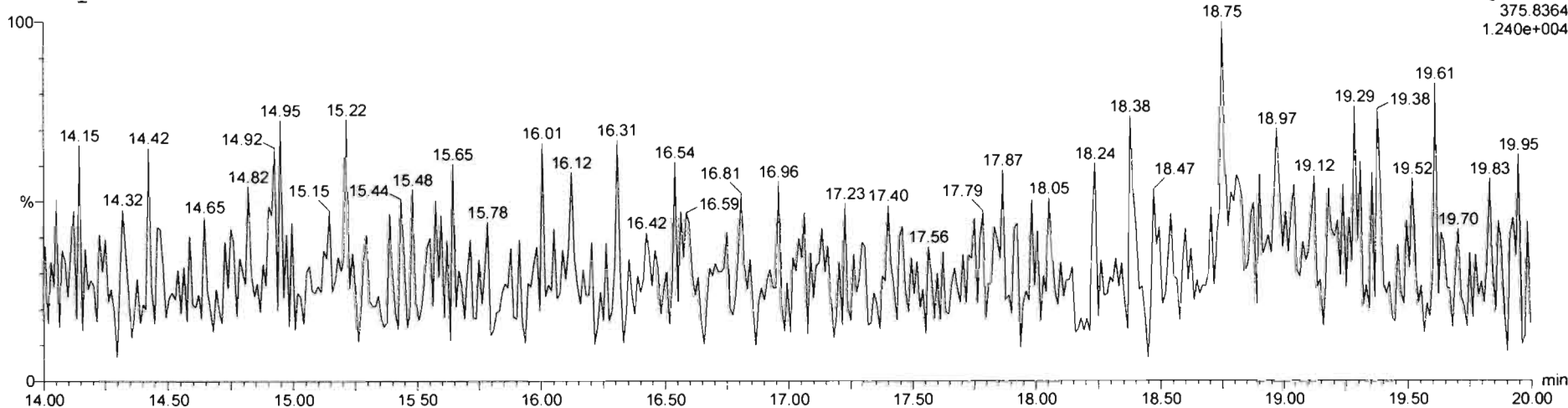


200311R1_6



DPE1

200311R1_6



Dataset: U:\VG12.PRO\Results\200311R1\200311R1-7.qld

Last Altered: Wednesday, March 11, 2020 13:04:00 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 13:04:55 Pacific Daylight Time

GRB 03/11/2020

CT 03/12/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R1_7, Date: 11-Mar-2020, Time: 11:45:07, ID: 1903738-06RE1 PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.42e6	0.75	NO	0.821	10.019	16.52	147.61		0.150
2	2 13C-2,3,7,8-TCDF	2.35e6	0.77	NO	1.10	10.019	16.49	166.16	83.2	0.305
3	3 13C-1,2,3,4-TCDF	2.56e6	0.79	NO	1.00	10.019	14.40	199.62	100	0.336

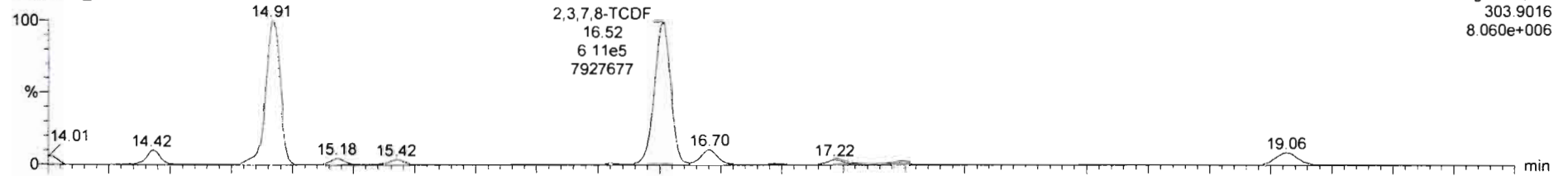
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

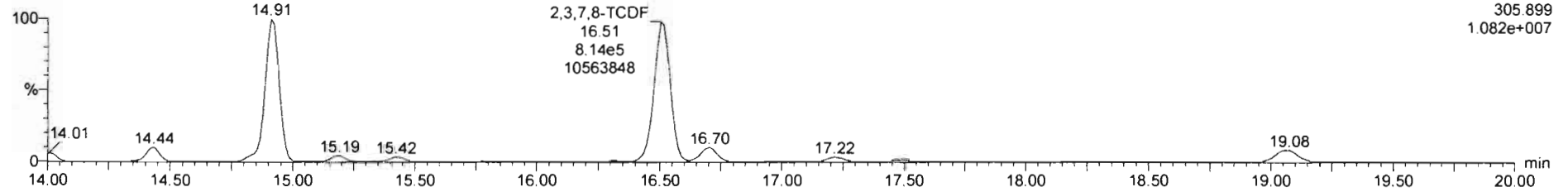
Name: 200311R1_7, Date: 11-Mar-2020, Time: 11:45:07, ID: 1903738-06RE1 PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

2,3,7,8-TCDF

200311R1_7

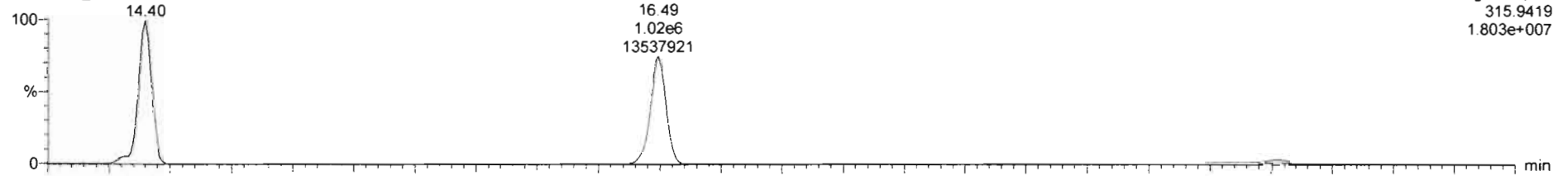


200311R1_7

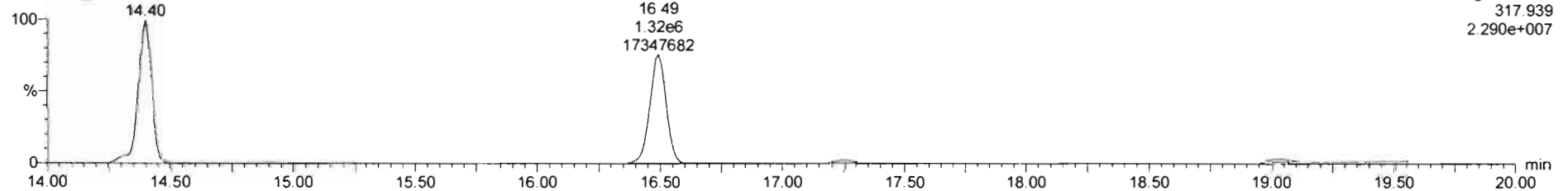


13C-2,3,7,8-TCDF

200311R1_7



200311R1_7



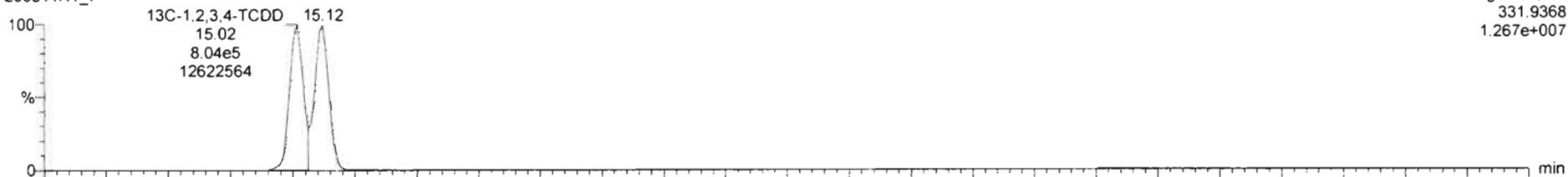
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

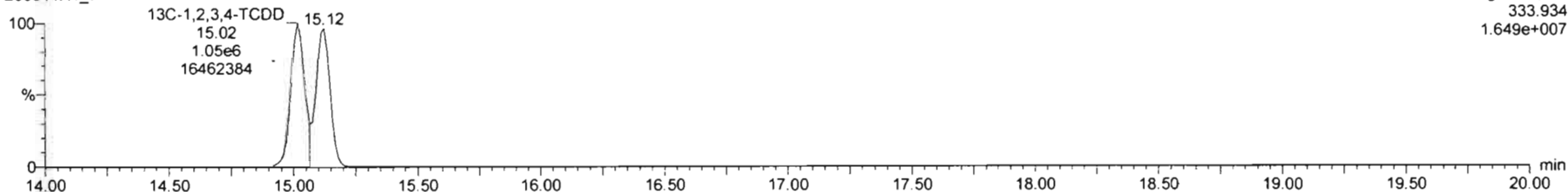
Name: 200311R1_7, Date: 11-Mar-2020, Time: 11:45:07, ID: 1903738-06RE1 PDI-069SC-B-02-04-191016 16.94, Description: PDI-069SC-B-02-04-191016

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

200311R1_7

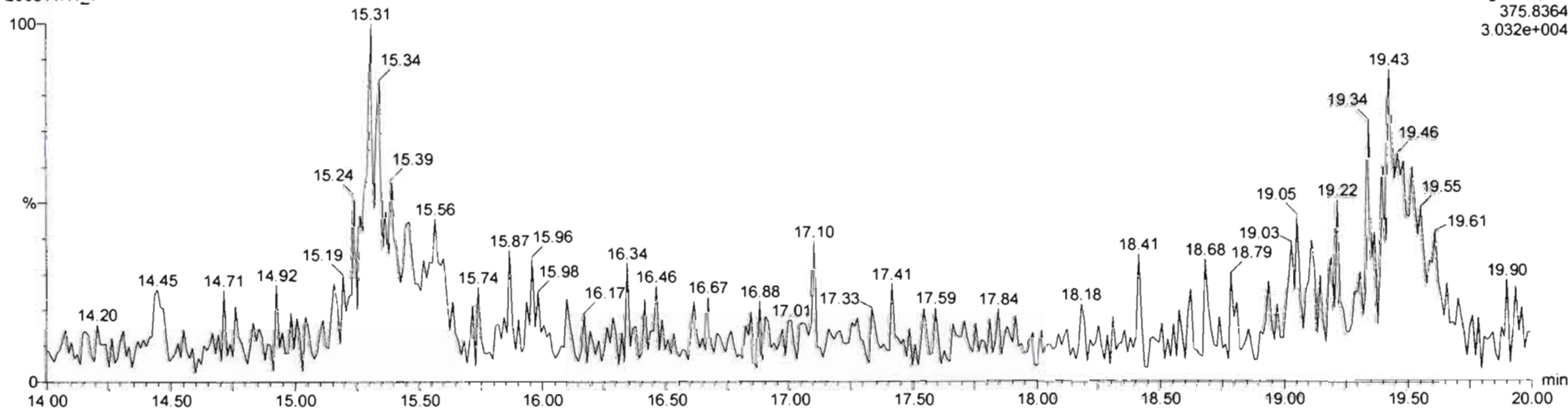


200311R1_7



DPE1

200311R1_7



Dataset: U:\VG12.PRO\Results\200311R1\200311R1-8.qld

Last Altered: Wednesday, March 11, 2020 13:04:14 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 13:04:31 Pacific Daylight Time

GRB 03/11/2020

C7 03/12/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R1_8, Date: 11-Mar-2020, Time: 12:15:34, ID: 1903738-07RE1 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.71e5	0.75	NO	0.821	10.018	✓ 16.58	58.002		0.211
2	2 13C-2,3,7,8-TCDF	1.55e6	0.78	NO	1.10	10.018	16.55	117.89	59.0	0.297
3	3 13C-1,2,3,4-TCDF	2.39e6	0.79	NO	1.00	10.018	14.47	199.65	100	0.327

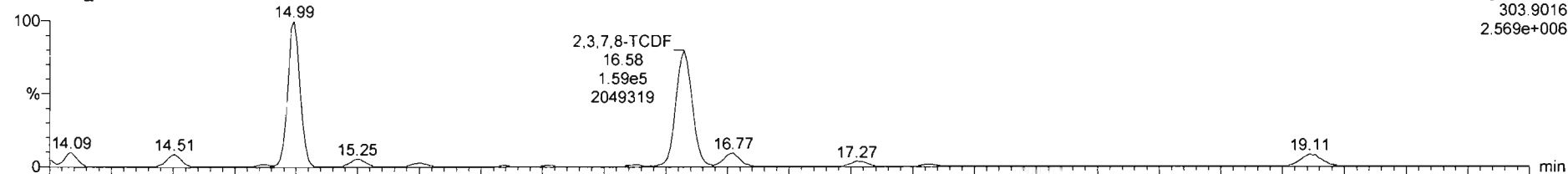
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

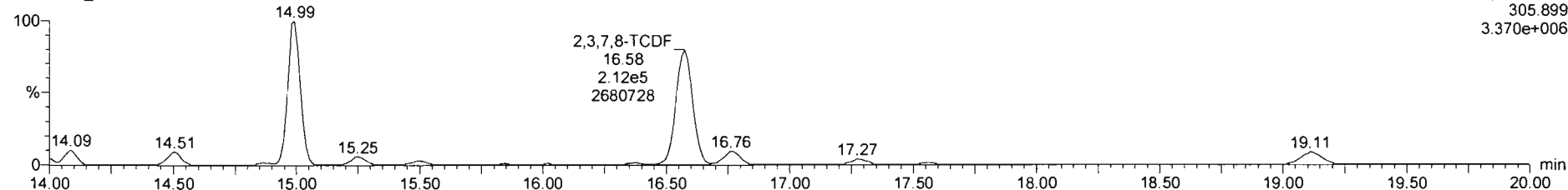
Name: 200311R1_8, Date: 11-Mar-2020, Time: 12:15:34, ID: 1903738-07RE1 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

2,3,7,8-TCDF

200311R1_8

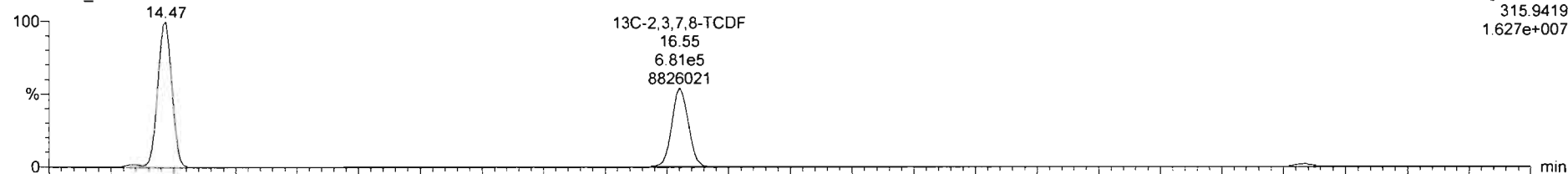


200311R1_8

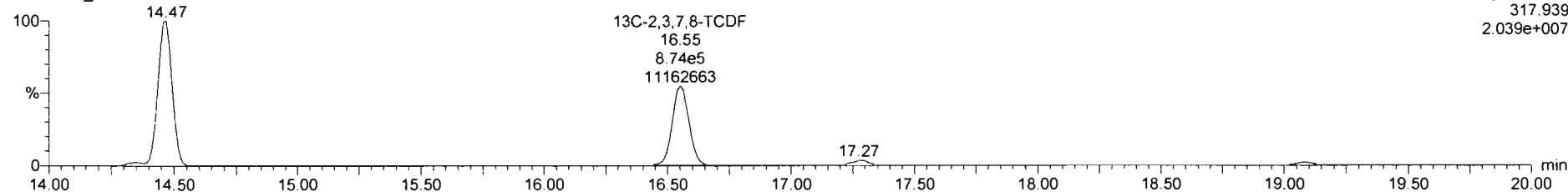


13C-2,3,7,8-TCDF

200311R1_8



200311R1_8



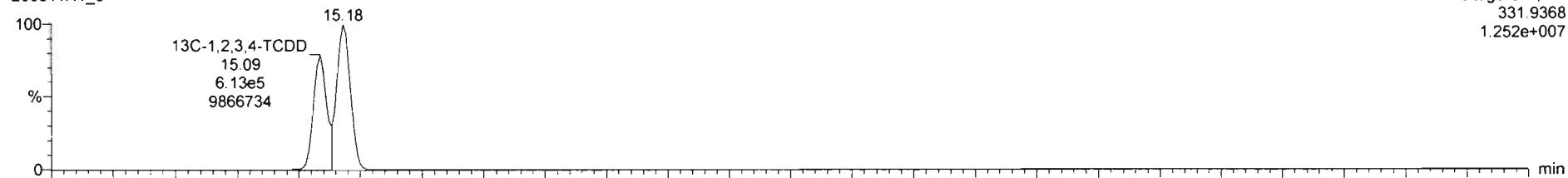
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 12:57:29 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:02:39 Pacific Daylight Time

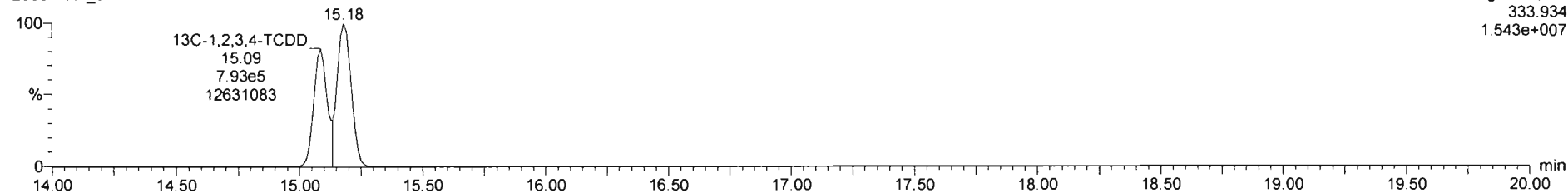
Name: 200311R1_3, Date: 11-Mar-2020, Time: 12:15:34, ID: 1903738-07RE1 PDI-069SC-B-04-06-191016 16.97, Description: PDI-069SC-B-04-06-191016

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

200311R1_8

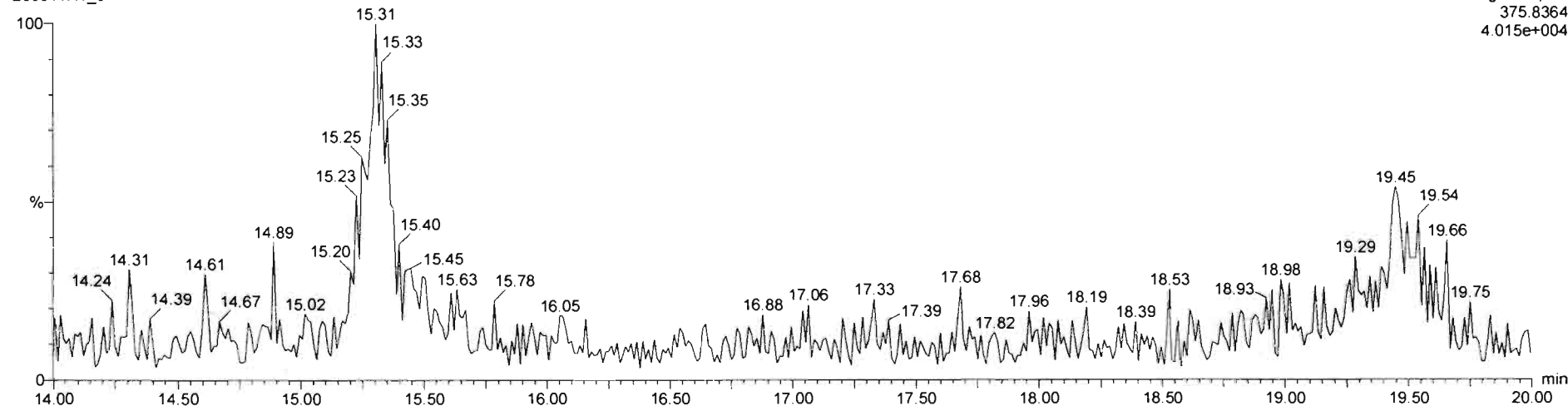


200311R1_8



DPE1

200311R1_8



Dataset: U:\VG12.PRO\Results\200311R1\200311R1-9.qld

Last Altered: Wednesday, March 11, 2020 13:18:57 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 13:19:41 Pacific Daylight Time

GPB 03/11/2020

G 03/12/2020

Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200311R1_9, Date: 11-Mar-2020, Time: 12:46:02, ID: 1903738-08RE1 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	7.71e4	0.74	NO	0.821	9.998	16.80	27.755		0.422
2	2 13C-2,3,7,8-TCDF	6.77e5	0.76	NO	1.10	9.998	16.77	69.965	35.0	0.596
3	3 13C-1,2,3,4-TCDF	1.76e6	0.79	NO	1.00	9.998	14.67	200.04	100	0.657

Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 13:18:57 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:19:07 Pacific Daylight Time

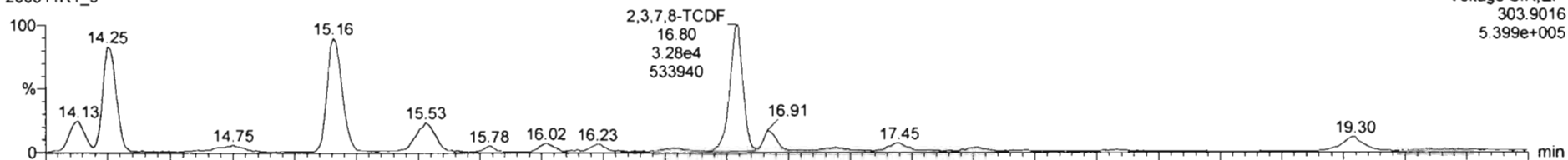
Method: Untitled 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

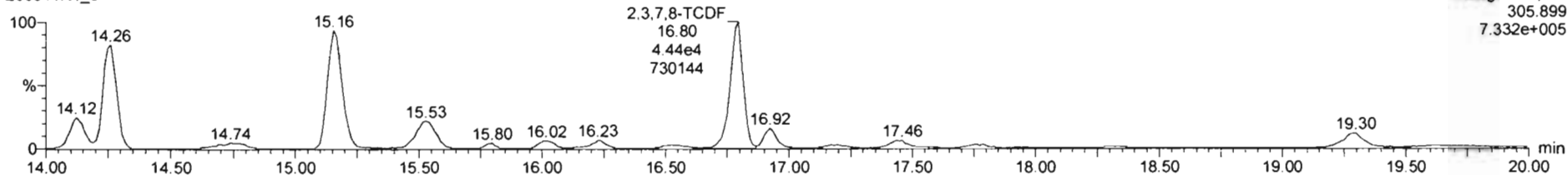
Name: 200311R1_9, Date: 11-Mar-2020, Time: 12:46:02, ID: 1903738-08RE1 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

2,3,7,8-TCDF

200311R1_9

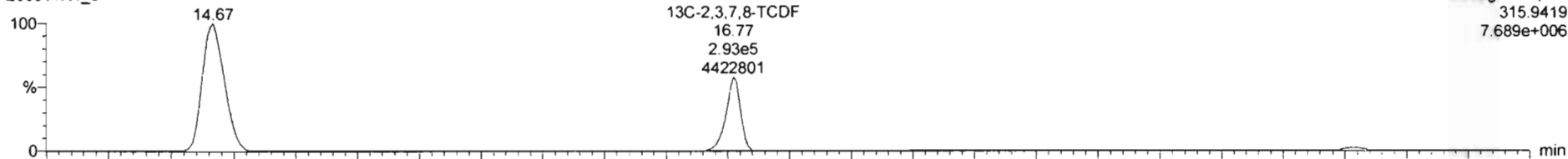


200311R1_9

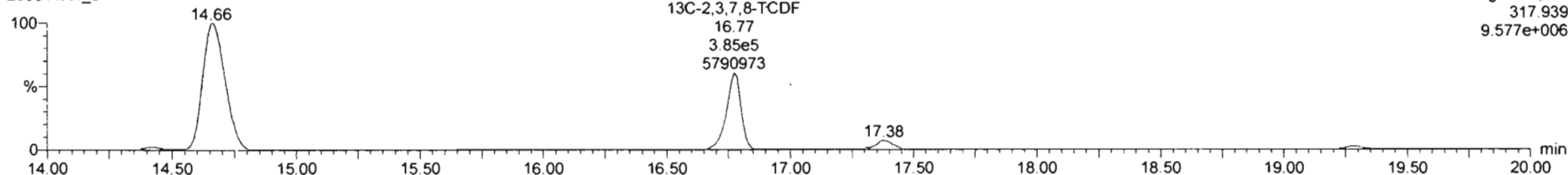


13C-2,3,7,8-TCDF

200311R1_9



200311R1_9



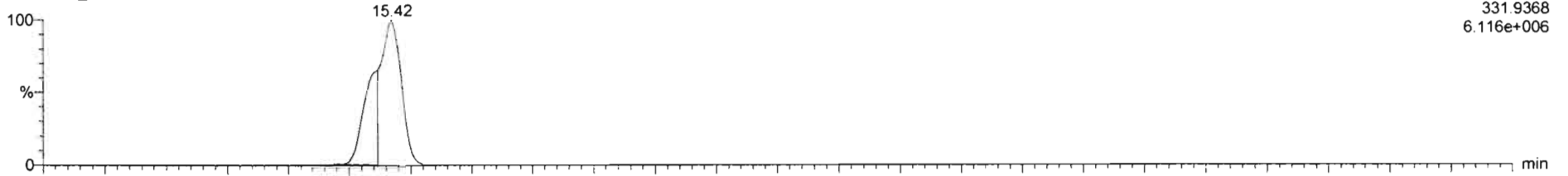
Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 13:18:57 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 13:19:07 Pacific Daylight Time

Name: 200311R1_9, Date: 11-Mar-2020, Time: 12:46:02, ID: 1903738-08RE1 PDI-069SC-B-06-08-191016 16.36, Description: PDI-069SC-B-06-08-191016

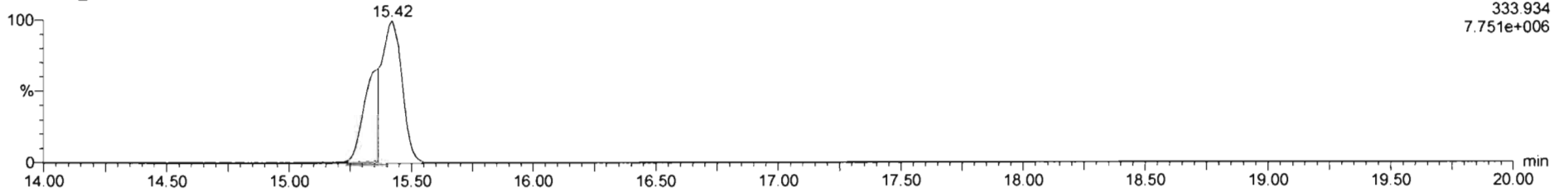
13C-1,2,3,4-TCDD

200311R1_9



Voltage SIR,EI+
331.9368
6.116e+006

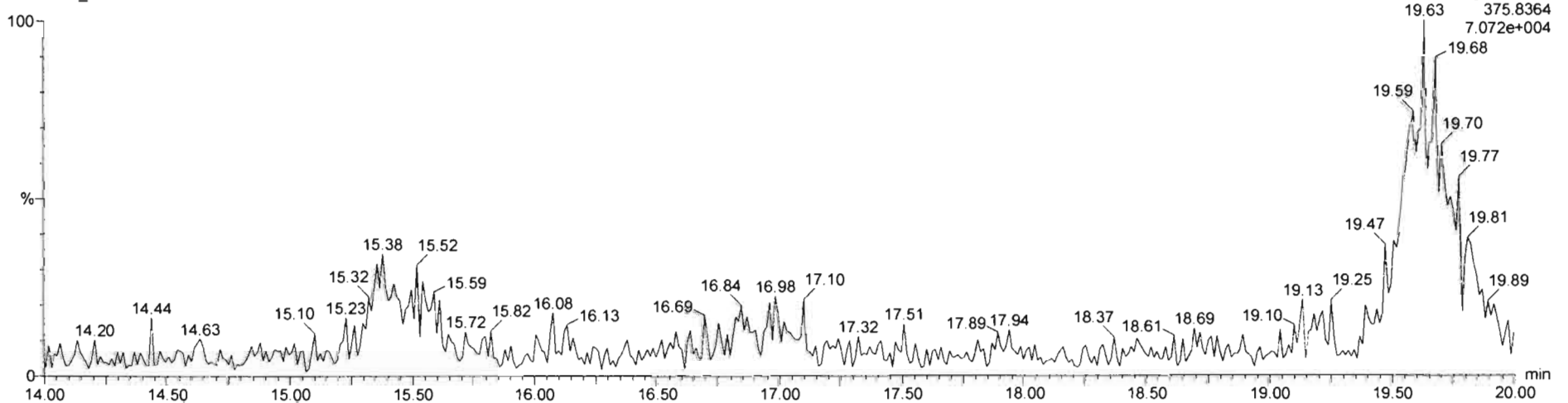
200311R1_9



Voltage SIR,EI+
333.934
7.751e+006

DPE1

200311R1_9



Voltage SIR,EI+
375.8364
7.072e+004

CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200205R1-1

Reviewed By: CT 02/07/2020
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"/> <u>NA</u>
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>GRB</u>	<u> </u>
<u>Run Log:</u>		
- Correct Instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GRB</u>	<u> </u>

	<u>Beg.</u>	<u>End</u>
Mass resolution ≥	<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"/> <u>NA</u>
GC Break <20%		<input checked="" type="checkbox"/> <u>NA</u>
<u>8280 CS1 End Standard:</u>		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input checked="" type="checkbox"/> <u>NA</u>

Comments:

Dataset: U:\VG12.PRO\Results\200205R1\200205R1-1.qld

Last Altered: Wednesday, February 05, 2020 14:46:57 Pacific Standard Time
Printed: Wednesday, February 05, 2020 14:47:14 Pacific Standard Time

GRB 02/05/2020

CT02/07/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	8.03e4	8.41e5	0.74	NO	0.988	25.68	25.67	NO	1.001	1.001	9.6687	96.7	NO
2	2 1,2,3,7,8-PeCDD	2.94e5	6.74e5	0.62	NO	0.972	30.63	30.62	NO	1.001	1.001	44.871	89.7	NO
3	3 1,2,3,4,7,8-HxCDD	2.74e5	5.47e5	1.21	NO	1.07	33.97	33.97	NO	1.000	1.000	46.699	93.4	NO
4	4 1,2,3,6,7,8-HxCDD	2.94e5	6.74e5	1.23	NO	0.921	34.06	34.07	NO	1.000	1.000	47.436	94.9	NO
5	5 1,2,3,7,8,9-HxCDD	2.65e5	6.15e5	1.23	NO	0.918	34.37	34.35	NO	1.001	1.000	46.881	93.8	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.02e5	4.67e5	1.01	NO	0.923	37.89	37.90	NO	1.000	1.001	46.827	93.7	NO
7	7 OCDD	4.23e5	9.27e5	0.87	NO	0.975	40.89	40.90	NO	1.000	1.000	93.503	93.5	NO
8	8 2,3,7,8-TCDF	7.94e4	1.04e6	0.76	NO	0.802	24.79	24.79	NO	1.001	1.001	9.5647	95.6	NO
9	9 1,2,3,7,8-PeCDF	4.07e5	9.72e5	1.53	NO	0.907	29.34	29.34	NO	1.001	1.001	46.140	92.3	NO
10	10 2,3,4,7,8-PeCDF	4.06e5	9.18e5	1.53	NO	0.952	30.33	30.32	NO	1.001	1.001	46.447	92.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.90e5	6.83e5	1.17	NO	0.862	33.09	33.10	NO	1.000	1.000	49.165	98.3	NO
12	12 1,2,3,6,7,8-HxCDF	3.21e5	7.53e5	1.18	NO	0.841	33.22	33.23	NO	1.000	1.001	50.761	102	NO
13	13 2,3,4,6,7,8-HxCDF	2.98e5	6.51e5	1.20	NO	0.898	33.82	33.81	NO	1.001	1.001	50.908	102	NO
14	14 1,2,3,7,8,9-HxCDF	2.39e5	5.73e5	1.18	NO	0.858	34.69	34.70	NO	1.000	1.000	48.735	97.5	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.12e5	4.99e5	0.98	NO	0.851	36.47	36.45	NO	1.001	1.000	49.846	99.7	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.71e5	3.35e5	0.96	NO	0.980	38.47	38.49	NO	1.000	1.001	51.936	104	NO
17	17 OCDF	3.96e5	9.82e5	0.86	NO	0.806	41.08	41.09	NO	1.000	1.000	100.08	100	NO
18	18 13C-2,3,7,8-TCDD	8.41e5	7.18e5	0.75	NO	1.20	25.64	25.65	NO	1.026	1.026	97.742	97.7	NO
19	19 13C-1,2,3,7,8-PeCDD	6.74e5	7.18e5	0.64	NO	0.967	30.38	30.61	NO	1.215	1.224	97.192	97.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	5.47e5	6.49e5	1.25	NO	0.874	33.96	33.96	NO	1.014	1.014	96.426	96.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	6.74e5	6.49e5	1.25	NO	1.05	34.06	34.06	NO	1.017	1.017	99.185	99.2	NO
22	22 13C-1,2,3,7,8,9-HxCDD	6.15e5	6.49e5	1.22	NO	0.974	34.36	34.34	NO	1.026	1.025	97.209	97.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.67e5	6.49e5	1.05	NO	0.747	37.91	37.88	NO	1.132	1.131	96.275	96.3	NO
24	24 13C-OCDD	9.27e5	6.49e5	0.88	NO	0.707	40.79	40.89	NO	1.218	1.221	202.14	101	NO
25	25 13C-2,3,7,8-TCDF	1.04e6	9.71e5	0.78	NO	1.07	24.83	24.76	NO	0.993	0.990	100.09	100	NO
26	26 13C-1,2,3,7,8-PeCDF	9.72e5	9.71e5	1.58	NO	1.00	29.15	29.32	NO	1.166	1.173	99.907	99.9	NO
27	27 13C-2,3,4,7,8-PeCDF	9.18e5	9.71e5	1.57	NO	0.962	30.10	30.30	NO	1.204	1.212	98.344	98.3	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.83e5	6.49e5	0.50	NO	1.05	33.09	33.09	NO	0.988	0.988	100.28	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	7.53e5	6.49e5	0.51	NO	1.19	33.19	33.21	NO	0.991	0.992	97.420	97.4	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.51e5	6.49e5	0.51	NO	1.07	33.79	33.78	NO	1.009	1.009	94.013	94.0	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.73e5	6.49e5	0.49	NO	0.922	34.69	34.69	NO	1.036	1.036	95.585	95.6	NO

Dataset: U:\VG12.PRO\Results\200205R1\200205R1-1.qld

Last Altered: Wednesday, February 05, 2020 14:46:57 Pacific Standard Time

Printed: Wednesday, February 05, 2020 14:47:14 Pacific Standard Time

Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	4.99e5	6.49e5	0.43	NO	0.767	36.43	36.44	NO	1.088	1.088	100.20	100	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.35e5	6.49e5	0.43	NO	0.552	38.44	38.47	NO	1.148	1.149	93.534	93.5	NO
34	34 13C-OCDF	9.82e5	6.49e5	0.87	NO	0.789	41.02	41.08	NO	1.225	1.227	191.52	95.8	NO
35	35 37Cl-2,3,7,8-TCDD	7.80e4	7.18e5			1.18	25.68	25.67	NO	1.027	1.027	9.2410	92.4	NO
36	36 13C-1,2,3,4-TCDD	7.18e5	7.18e5	0.80	NO	1.00	25.08	25.00	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	9.71e5	9.71e5	0.78	NO	1.00	23.42	23.34	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	6.49e5	6.49e5	0.50	NO	1.00	33.52	33.49	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		8.41e5			0.988	24.62		NO	0.000		81.793		NO
40	40 Total Penta-Dioxins		6.74e5			0.972	29.96		NO	0.000		202.18		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		236.32		NO
42	42 Total Hepta-Dioxins		4.67e5			0.923	37.64		NO	0.000		128.80		NO
43	43 Total Tetra-Furans		1.04e6			0.802	23.61		NO	0.000		46.645		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000				NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		160.53		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		285.41		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		101.78		NO

Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\200205R1\200205R1-CPSM.qld

Last Altered: Wednesday, February 05, 2020 14:54:04 Pacific Standard Time

Printed: Wednesday, February 05, 2020 14:54:33 Pacific Standard Time

Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	RT
1	1 1,3,6,8-TCDD (First)	21.71
2	2 1,2,8,9-TCDD (Last)	26.63
3	3 1,2,4,7,9-PeCDD (First)	28.41
4	4 1,2,3,8,9-PeCDD (Last)	31.00
5	5 1,2,4,6,7,9-HxCDD (First)	32.49
6	6 1,2,3,7,8,9-HxCDD (Last)	34.35
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.84
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.90
9	9 1,3,6,8-TCDF (First)	19.60
10	10 1,2,8,9-TCDF (Last)	26.78
11	11 1,3,4,6,8-PeCDF (First)	26.74
12	12 1,2,3,8,9-PeCDF (Last)	31.25
13	13 1,2,3,4,6,8-HxCDF (First)	31.94
14	14 1,2,3,7,8,9-HxCDF (Last)	34.70
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.45
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.49

Dataset: Untitled

Last Altered: Thursday, February 06, 2020 08:10:14 Pacific Standard Time

Printed: Thursday, February 06, 2020 08:10:38 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200205R1_1	ST200205R1_1 1613 CS3 19L2305	05-Feb-20	08:29:36
2	200205R1_2	B0A0073-BS1 OPR 10	05-Feb-20	09:55:09
3	200205R1_3	B0A0040-BS1 OPR 10	05-Feb-20	10:41:14
4	200205R1_4	SOLVENT BLANK	05-Feb-20	11:44:59
5	200205R1_5	B0A0073-BLK1 Method Blank 10	05-Feb-20	12:35:16
6	200205R1_6	B0A0040-BLK1 Method Blank 10	05-Feb-20	13:22:24
7	200205R1_7	1903826-01 PDI-034SC-B-00-02-191022 15.45	05-Feb-20	14:09:24
8	200205R1_8	1903826-02 PDI-034SC-B-02-04-191022 13.42	05-Feb-20	14:56:27
9	200205R1_9	1903826-03 PDI-034SC-B-04-06-191022 11.43	05-Feb-20	16:14:24
10	200205R1_10	1903826-04 PDI-034SC-D-06-08-191022 17.93	05-Feb-20	17:20:38
11	200205R1_11	1903826-06 PDI-083SC-B-02-04-191022 18.57	05-Feb-20	18:07:34
12	200205R1_12	1903826-08 PDI-083SC-B-06-08-191022 17.36	05-Feb-20	18:54:34
13	200205R1_13	1903826-08@2X PDI-083SC-B-06-08-191022 ...	05-Feb-20	19:58:18

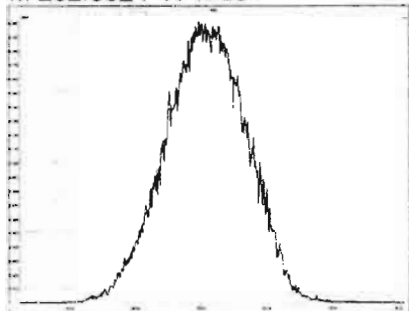
Experiment Calibration Report

MassLynx 4.1 SCN815

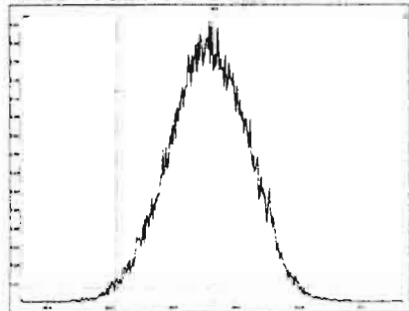
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, February 05, 2020 08:23:27 Pacific Standard Time

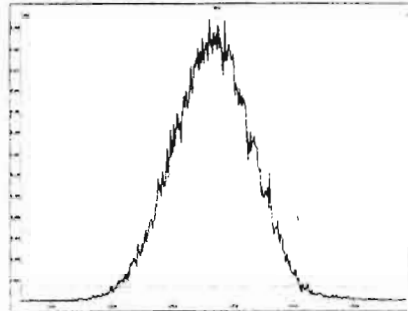
M 292.9824 R 10501



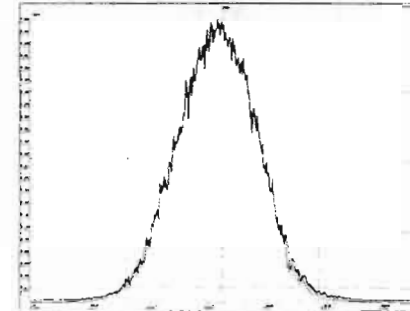
M 304.9824 R 10417



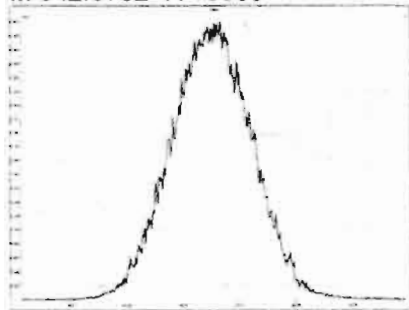
M 318.9792 R 10377



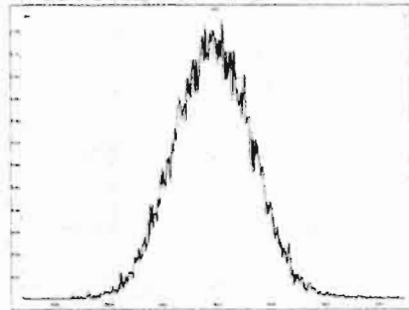
M 330.9792 R 10413



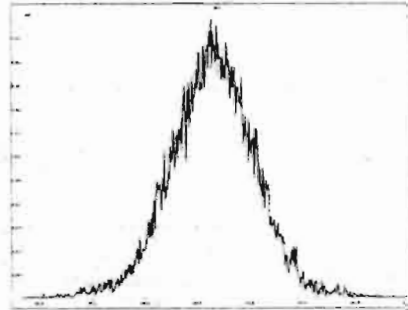
M 342.9792 R 10683



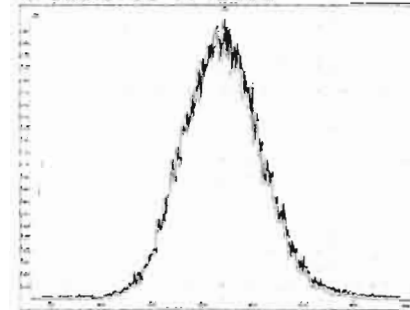
M 354.9792 R 11315



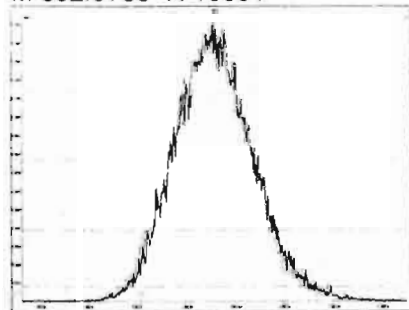
M 366.9792 R 10417



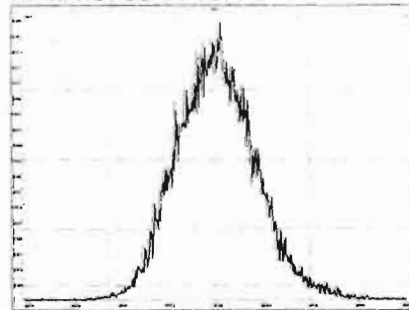
M 380.9760 R 10869



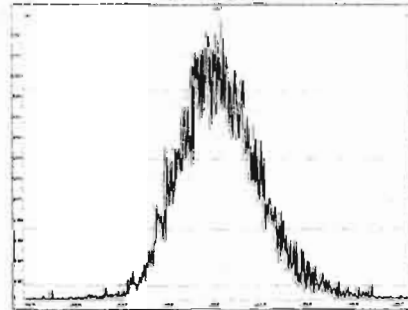
M 392.9760 R 10681



M 404.9760 R 10776



M 416.9760 R 10372



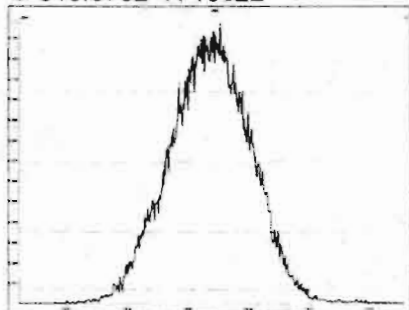
Experiment Calibration Report

MassLynx 4.1 SCN815

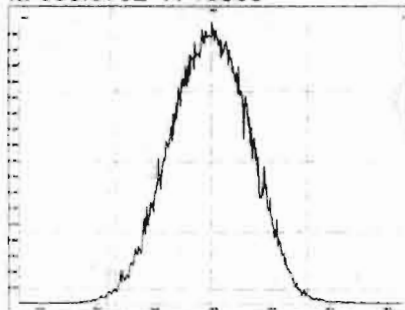
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, February 05, 2020 08:24:06 Pacific Standard Time

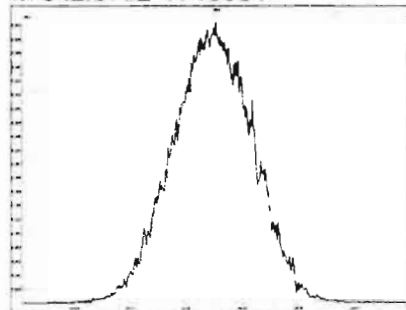
M 318.9792 R 10822



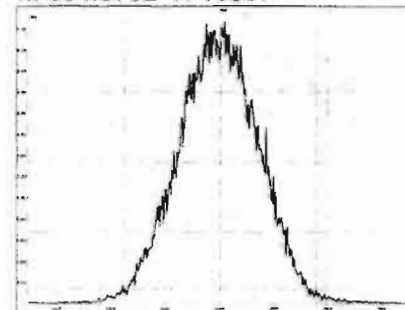
M 330.9792 R 10635



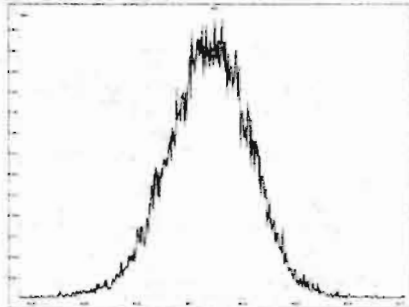
M 342.9792 R 10684



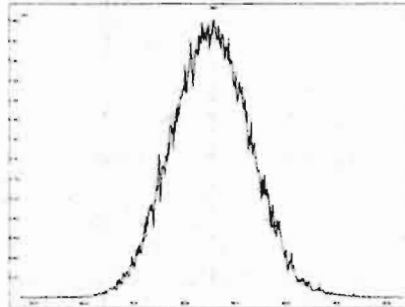
M 354.9792 R 10637



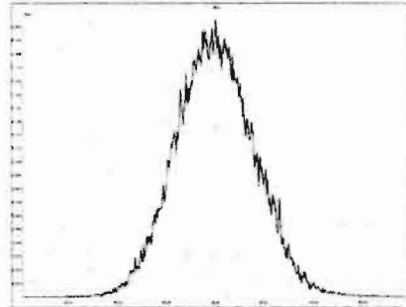
M 366.9792 R 10164



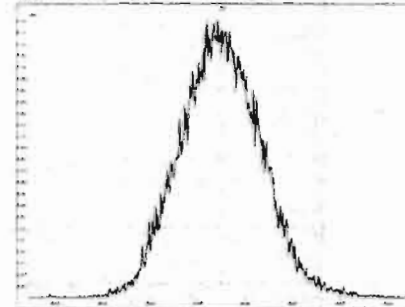
M 380.9760 R 10288



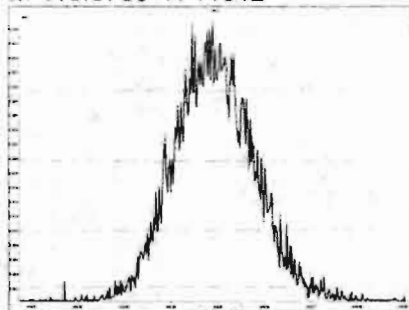
M 392.9760 R 10595



M 404.9760 R 10594



M 416.9760 R 11012



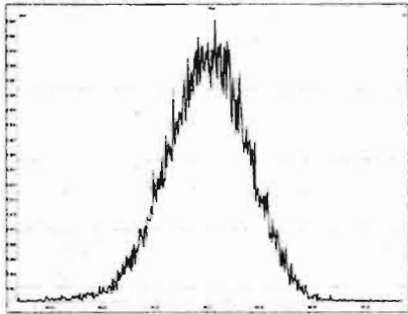
Experiment Calibration Report

MassLynx 4.1 SCN815

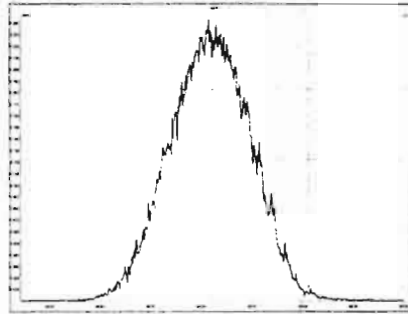
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, February 05, 2020 08:25:28 Pacific Standard Time

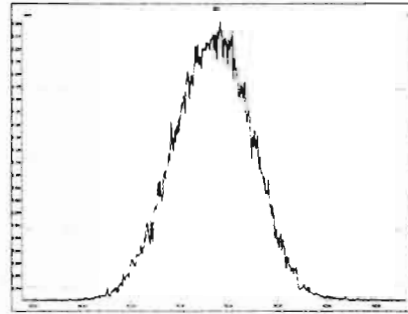
M 366.9792 R 10501



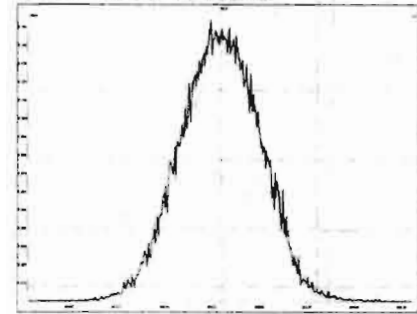
M 380.9760 R 10822



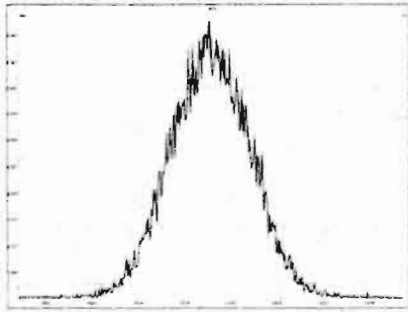
M 392.9760 R 10728



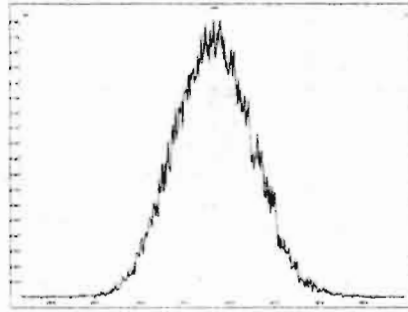
M 404.9760 R 10242



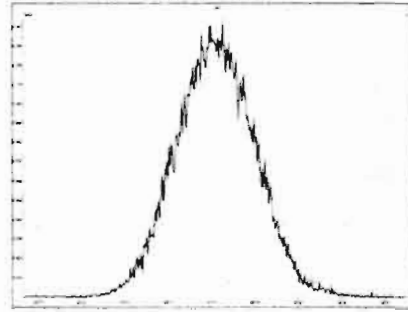
M 416.9760 R 10416



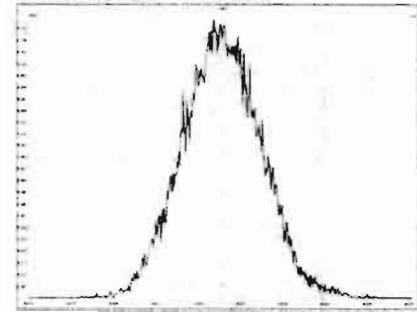
M 430.9728 R 10502



M 442.9728 R 10593



M 454.9728 R 10868



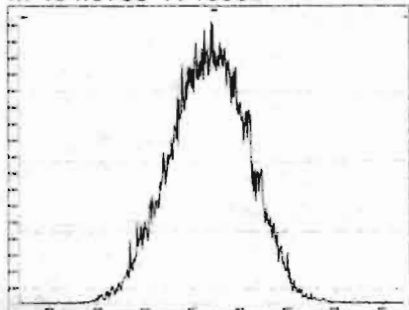
Experiment Calibration Report

MassLynx 4.1 SCN815

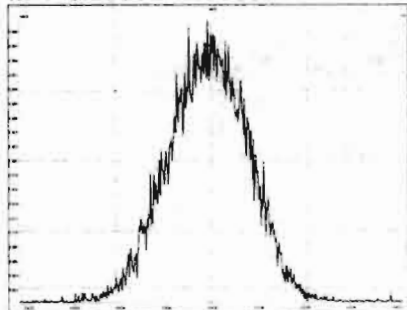
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, February 05, 2020 08:26:10 Pacific Standard Time

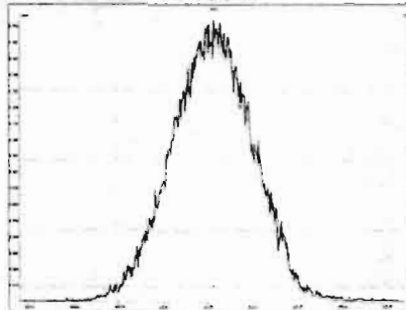
M 404.9760 R 10550



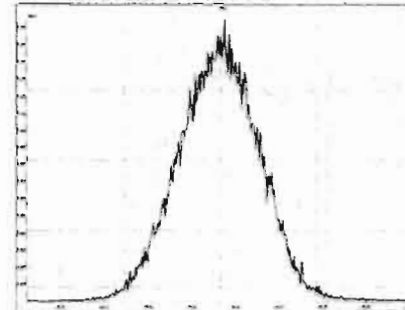
M 416.9760 R 10683



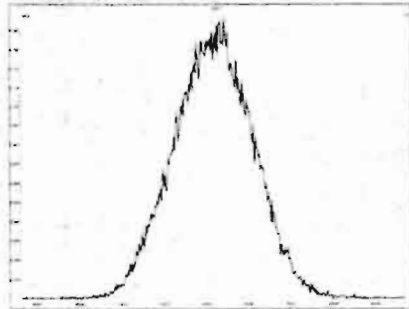
M 430.9728 R 10547



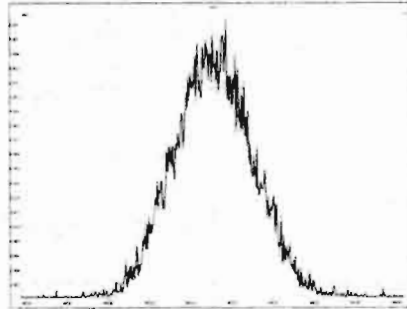
M 442.9728 R 10773



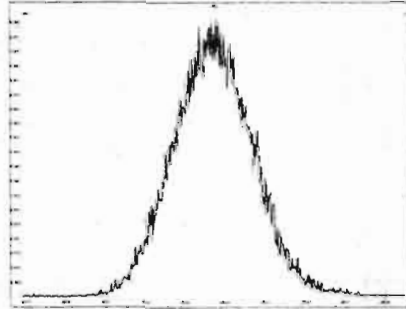
M 454.9728 R 10592



M 466.9728 R 10918



M 480.9696 R 10504



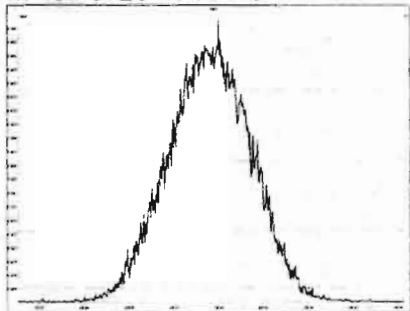
Experiment Calibration Report

MassLynx 4.1 SCN815

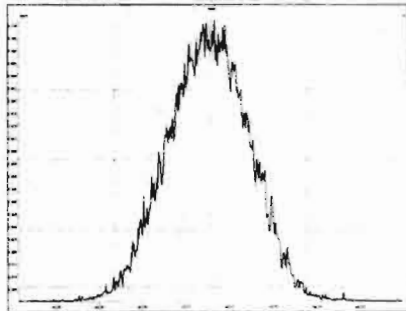
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, February 05, 2020 08:27:17 Pacific Standard Time

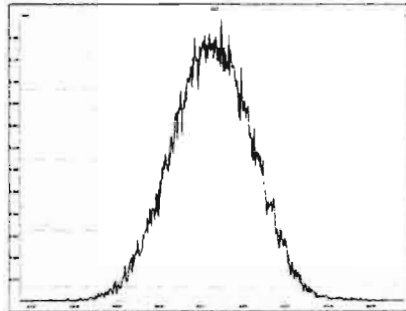
M 430.9728 R 10416



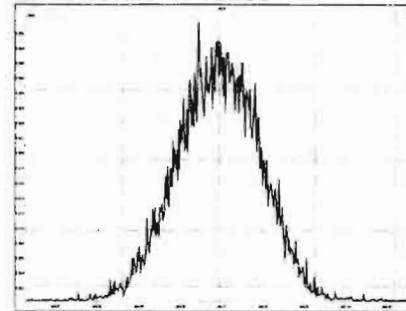
M 442.9728 R 10202



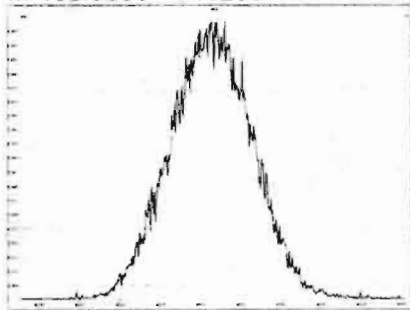
M 454.9728 R 10331



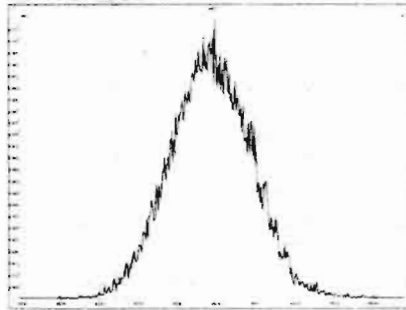
M 466.9728 R 10330



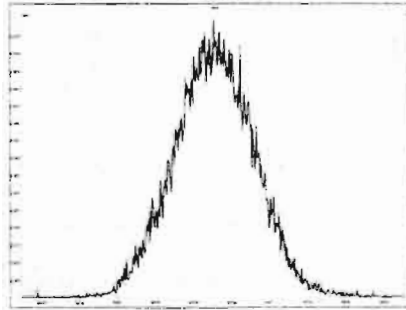
M 480.9696 R 10290



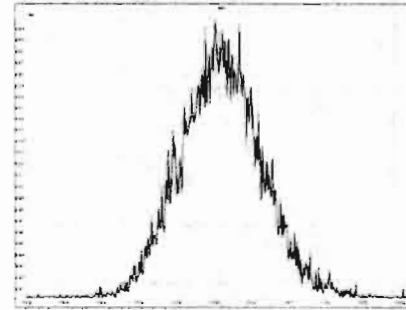
M 492.9696 R 10867



M 504.9696 R 10592



M 516.9697 R 10244



Dataset: U:\VG12.PRO\Results\200205R1\200205R1-CPSM.qld

Last Altered: Wednesday, February 05, 2020 14:54:04 Pacific Standard Time
Printed: Wednesday, February 05, 2020 14:54:33 Pacific Standard Time

GRB 02/05/2020

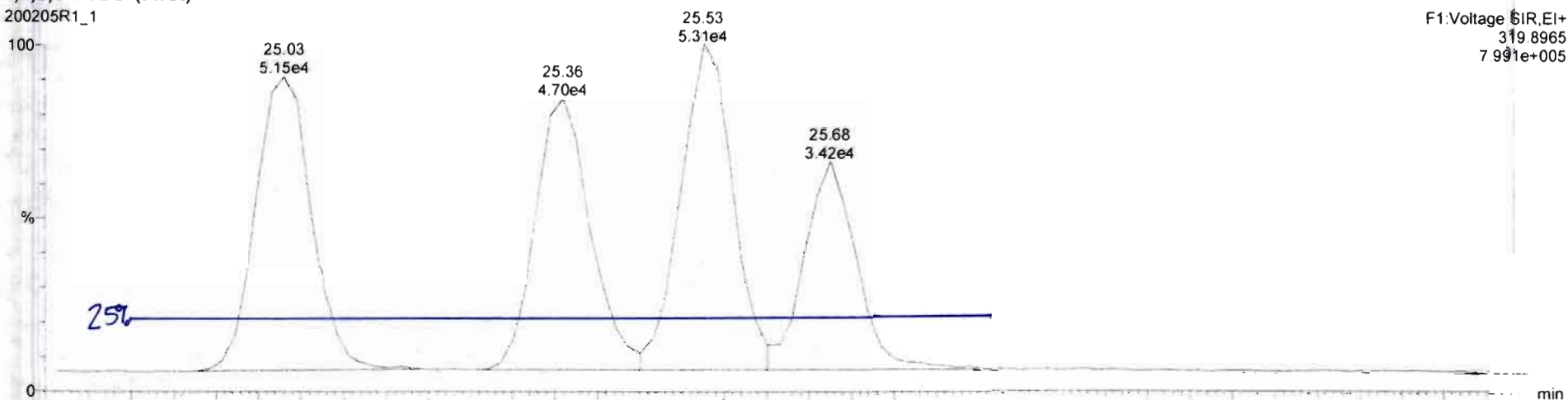
Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

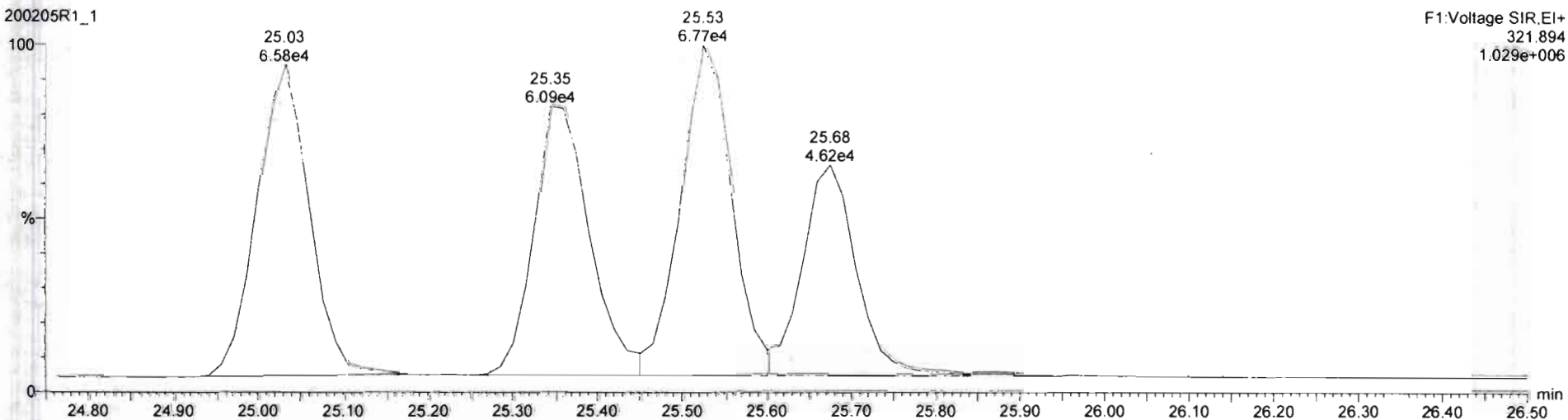
Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200205R1_1



200205R1_1



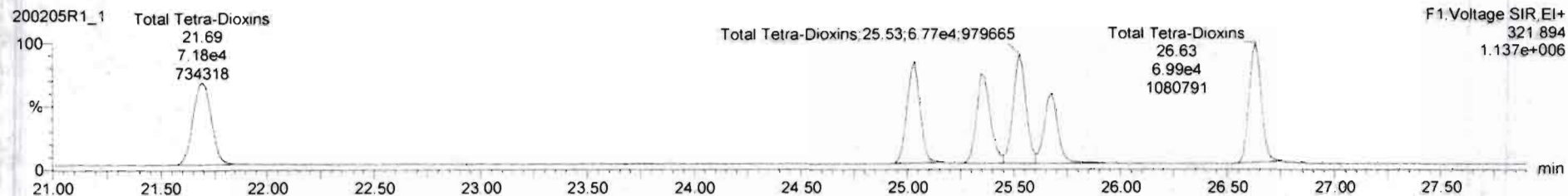
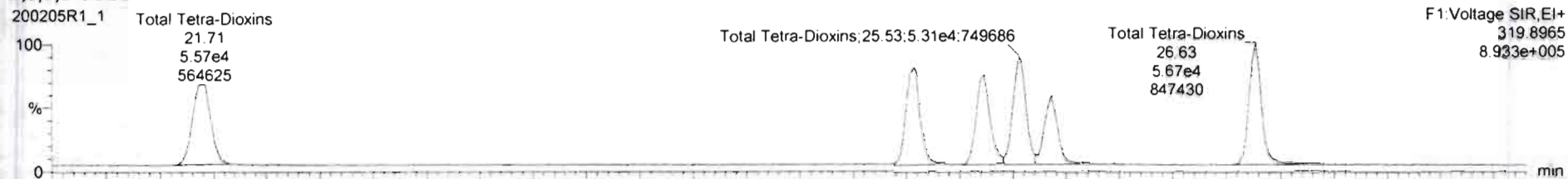
Dataset: Untitled

Last Altered: Wednesday, February 05, 2020 14:47:29 Pacific Standard Time
Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

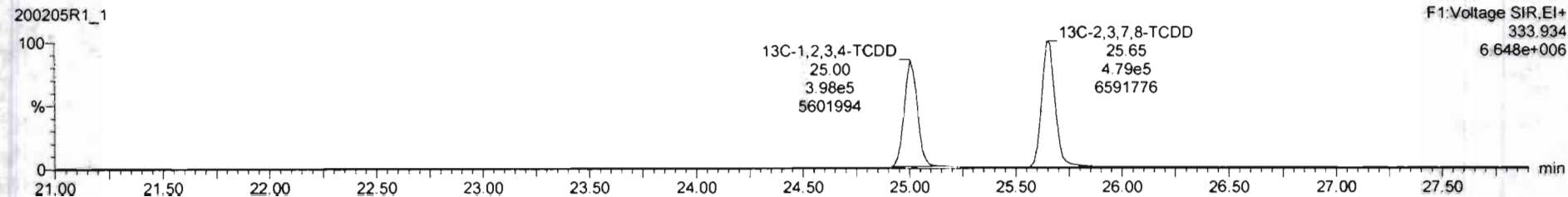
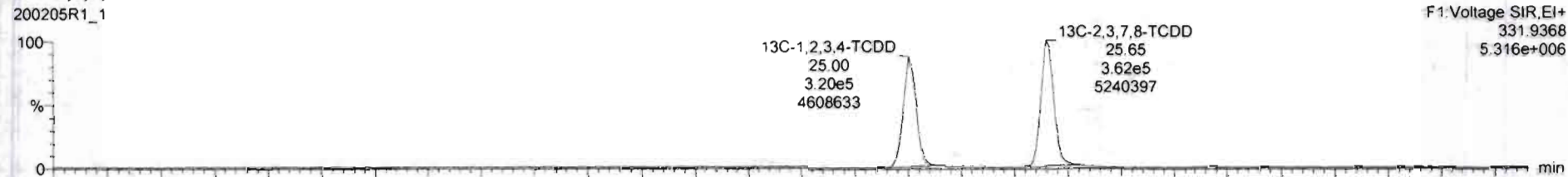
Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

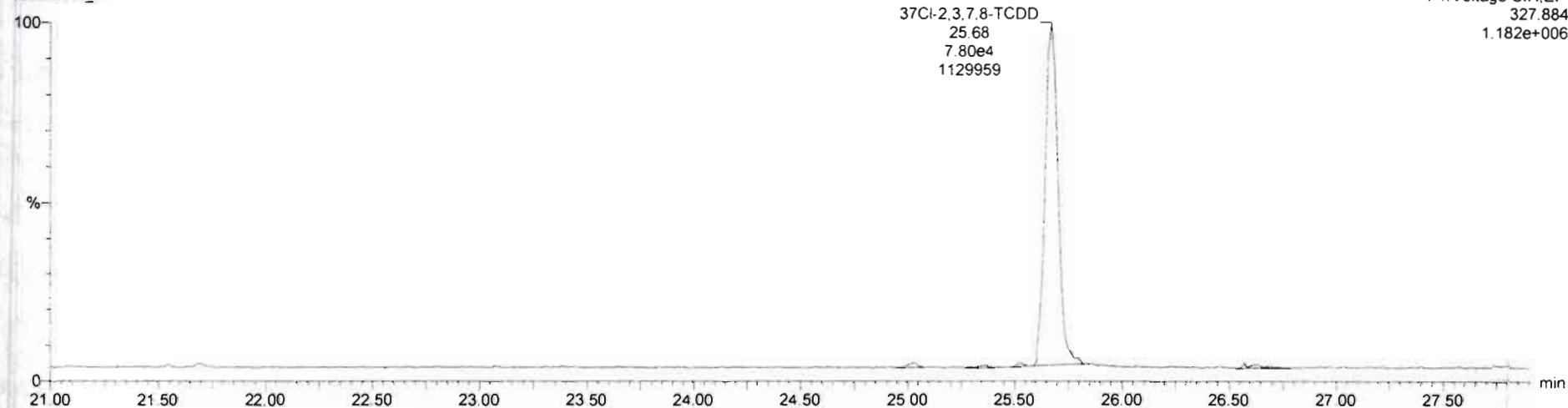
Last Altered: Wednesday, February 05, 2020 14:47:29 Pacific Standard Time

Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

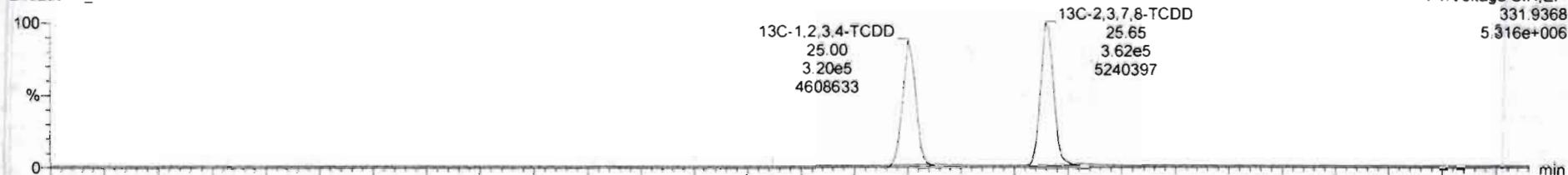
37Cl-2,3,7,8-TCDD

200205R1_1

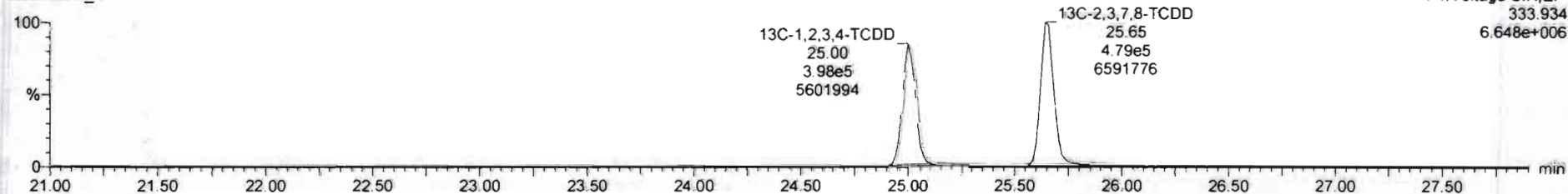


13C-1,2,3,4-TCDD

200205R1_1



200205R1_1

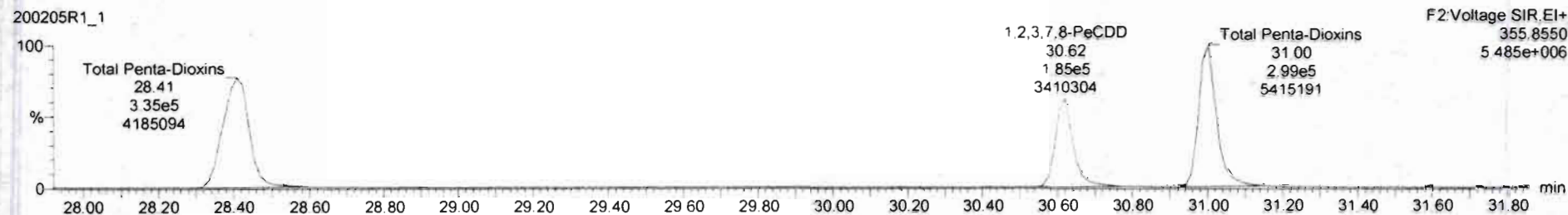
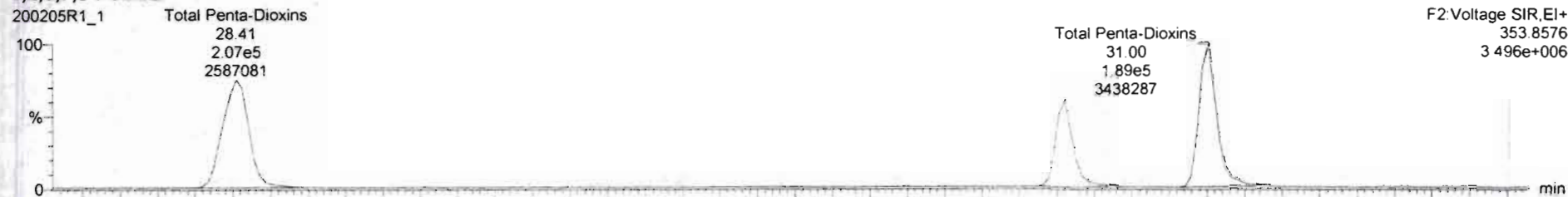


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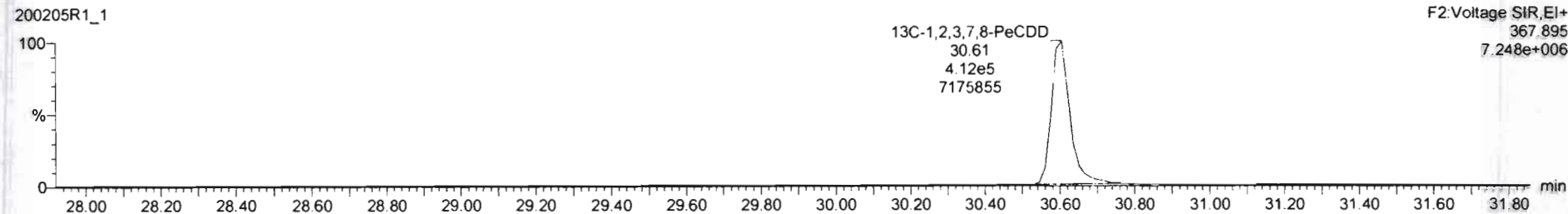
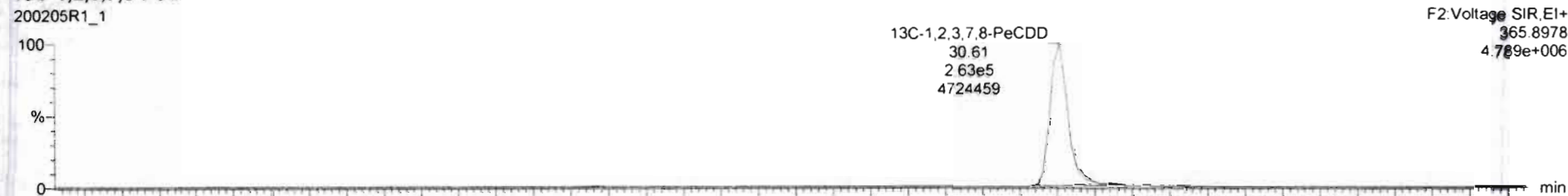
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Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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	Coac	%Rec	STD out
1	2,3,7,8-TCDD	8.03e4	8.41e5	0.77	0.74	NO	0.9881	25.68	25.67	NO	1.001	1.001	9.67	96.7	NO
2	1,2,3,7,8-PeCDD	2.94e5	6.74e5	0.83	0.82	NO	0.9723	30.63	30.62	NO	1.001	1.001	44.9	89.7	NO
3	1,2,3,4,7,8-HxCDD	2.74e5	5.47e5	1.24	1.21	NO	1.0708	33.97	33.97	NO	1.000	1.000	46.7	93.4	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.74e5	1.24	1.23	NO	0.9211	34.06	34.07	NO	1.000	1.000	47.4	94.9	NO
5	1,2,3,7,8,9-HxCDD	2.65e5	6.15e5	1.24	1.23	NO	0.9182	34.37	34.35	NO	1.001	1.000	46.9	93.8	NO
6	1,2,3,4,6,7,8-HpCDD	2.02e5	4.67e5	1.04	1.01	NO	0.9231	37.89	37.90	NO	1.000	1.001	46.8	93.7	NO
7	OCDD	4.34e5	9.52e5	0.89	0.87	NO	0.9748	46.89	46.90	NO	1.000	1.000	92.5	92.5	NO
8	2,3,7,8-TCDF	6.00e4	1.04e5	0.77	0.77	NO	0.9020	24.79	24.79	NO	1.001	1.001	9.64	96.4	NO
9	1,2,3,7,8-PeCDF	4.14e5	9.69e5	1.55	1.54	NO	0.9074	29.34	29.34	NO	1.001	1.001	47.0	94.1	NO
10	2,3,4,7,8-PeCDF	4.15e5	9.16e5	1.55	1.54	NO	0.9516	30.33	30.32	NO	1.001	1.000	47.6	95.1	NO
11	1,2,3,4,7,8-HxCDF	2.90e5	6.83e5	1.24	1.17	NO	0.8627	33.09	33.10	NO	1.000	1.000	49.2	96.3	NO
12	1,2,3,6,7,8-HxCDF	3.21e5	7.53e5	1.24	1.18	NO	0.8414	33.22	33.23	NO	1.000	1.001	50.8	102	NO
13	2,3,4,6,7,8-HxCDF	2.98e5	6.51e5	1.24	1.20	NO	0.8962	33.82	33.81	NO	1.001	1.001	50.9	102	NO
14	1,2,3,7,8,9-HxCDF	2.39e5	5.73e5	1.24	1.12	NO	0.8572	34.69	34.70	NO	1.000	1.000	48.7	97.5	NO
15	1,2,3,4,6,7,8-HpCDF	2.12e5	4.99e5	1.04	0.96	NO	0.8511	36.47	36.45	NO	1.001	1.000	49.8	99.7	NO
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.35e5	1.04	0.96	NO	0.9799	36.47	36.46	NO	1.000	1.001	51.5	104	NO
17	OCDF	3.98e5	9.88e5	0.89	0.84	NO	0.8055	41.09	41.09	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	6.41e5	7.18e5	0.77	0.75	NO	1.1985	25.84	25.65	NO	1.026	1.026	97.7	97.7	NO
19	13C-1,2,3,7,8-PeCDD	6.74e5	7.18e5	0.83	0.84	NO	0.9667	36.38	35.61	NO	1.215	1.224	97.2	97.2	NO



Dataset: Untitled

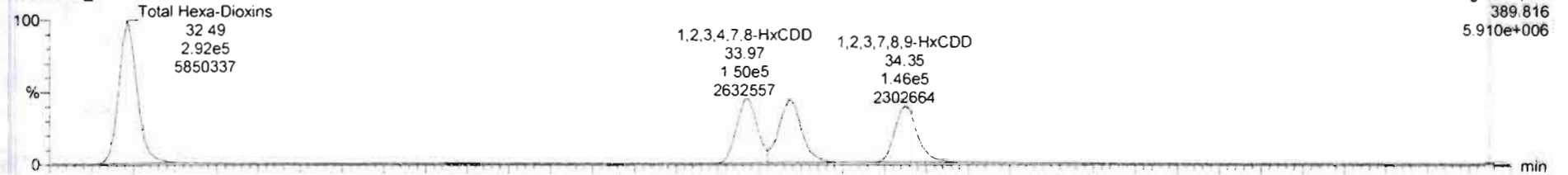
Last Altered: Wednesday, February 05, 2020 14:47:29 Pacific Standard Time

Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

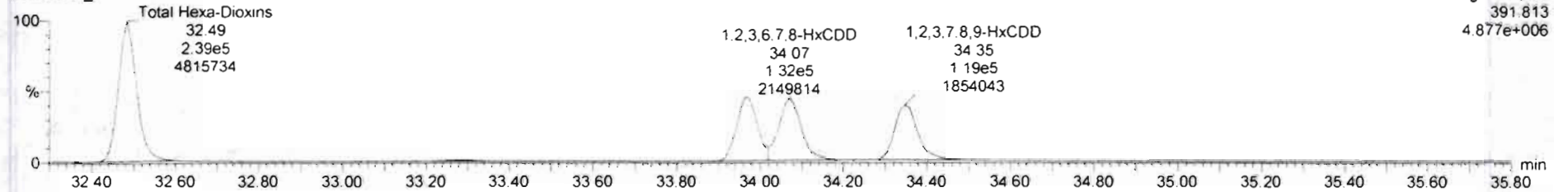
Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200205R1_1

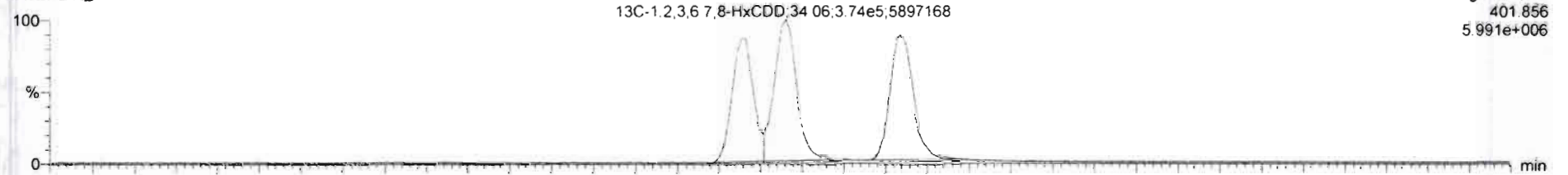


200205R1_1

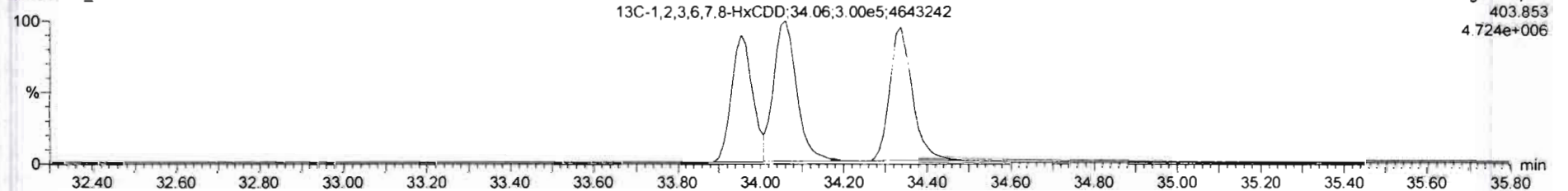


13C-1,2,3,4,7,8-HxCDD

200205R1_1



200205R1_1



Dataset: Untitled

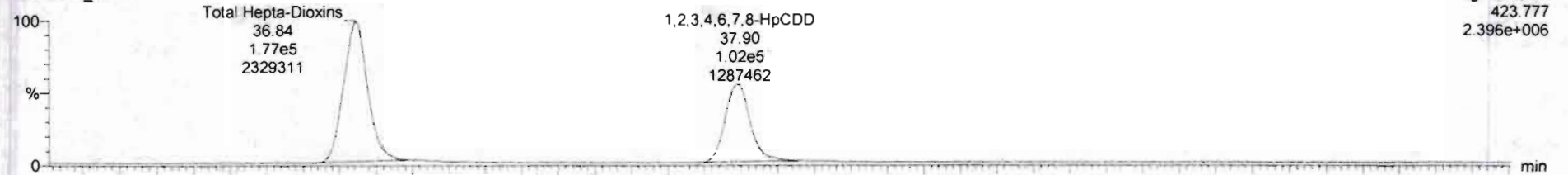
Last Altered: Wednesday, February 05, 2020 14:47:29 Pacific Standard Time

Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

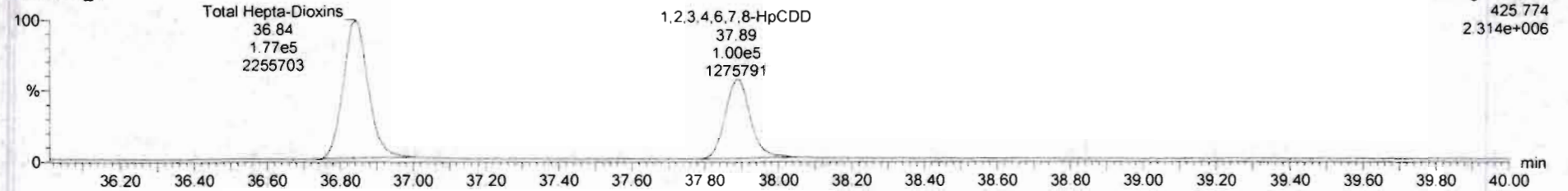
Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200205R1_1

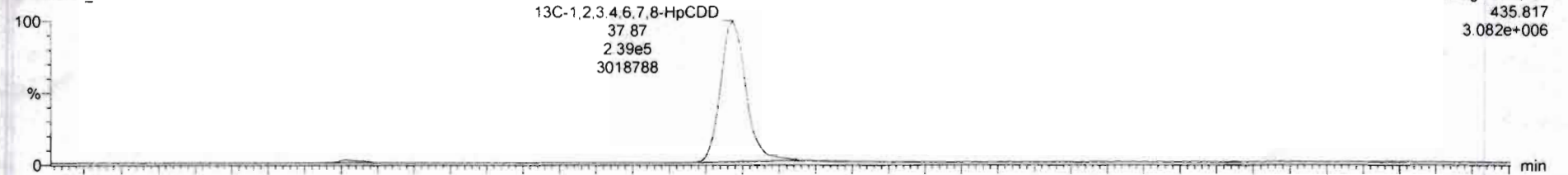


200205R1_1

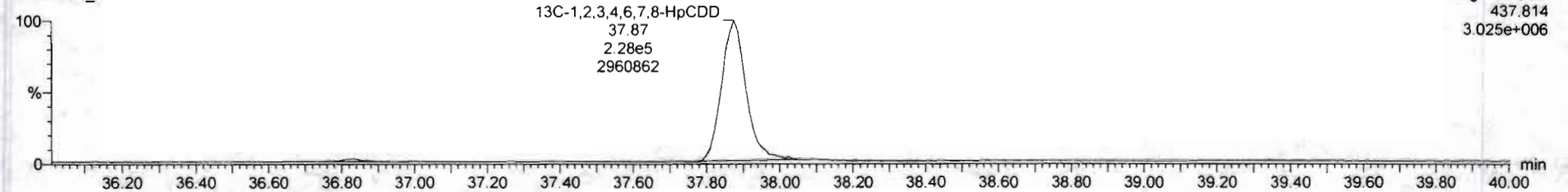


13C-1,2,3,4,6,7,8-HpCDD

200205R1_1



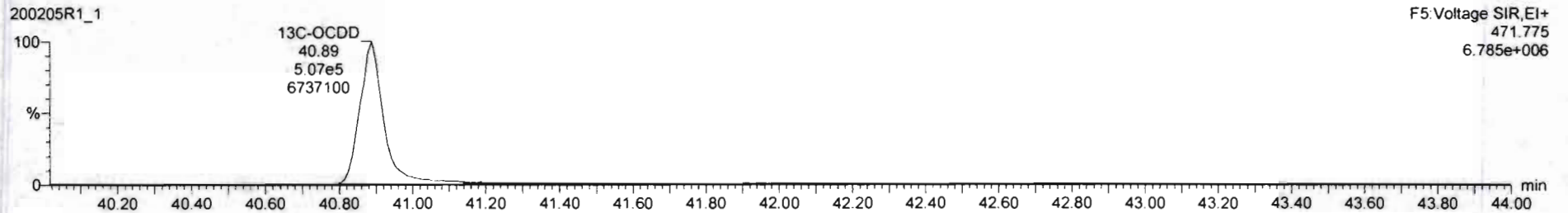
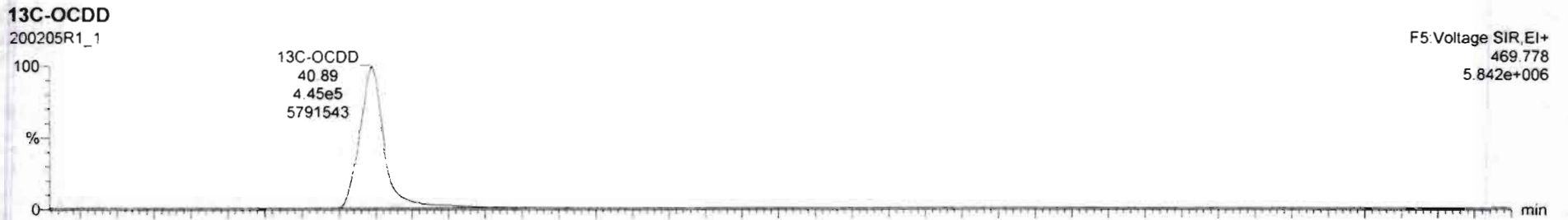
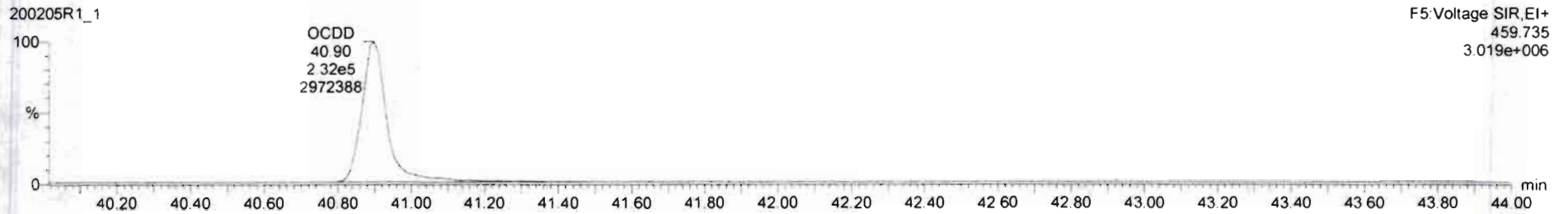
200205R1_1



Dataset: Untitled

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Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



200205R1_1 - ST200205R1_1 1613 CS3 19L2305 1613 CS3 19L2305

#	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	8.03e4	6.41e5	0.77	0.74	NO	0.9881	25.58	25.67	NO	1.001	1.001	9.67	96.7	NO
2	1,2,3,7,8-PeCDD	2.94e5	6.74e5	0.63	0.62	NO	0.9723	36.62	35.62	NO	1.001	1.001	44.9	65.7	NO
3	1,2,3,4,7,8-HxCDD	2.74e5	5.47e5	1.24	1.21	NO	1.0768	33.97	33.87	NO	1.000	1.000	46.7	92.4	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.74e5	1.24	1.23	NO	0.9211	34.06	34.07	NO	1.000	1.000	47.4	94.9	NO
5	1,2,3,7,8,9-HxCDD	2.65e5	5.15e5	1.24	1.23	NO	0.9162	34.37	34.35	NO	1.001	1.000	46.9	93.8	NO
6	1,2,3,4,6,7,8-HpCDD	2.02e5	4.87e5	1.04	1.01	NO	0.9231	37.89	37.90	NO	1.000	1.001	46.8	93.7	NO
7	OCDD	4.23e5	8.27e5	0.89	0.87	NO	0.9746	40.89	40.90	NO	1.000	1.000	63.5	93.5	NO
8	2,3,7,8-TCDF	5.00e4	1.04e6	0.77	0.77	NO	0.8020	24.79	24.79	NO	1.001	1.001	9.64	96.4	NO
9	1,2,3,7,8-PeCDF	4.14e5	9.69e5	1.55	1.54	NO	0.9074	29.34	29.34	NO	1.001	1.001	47.0	94.1	NO
10	2,3,4,7,8-PeCDF	4.15e5	9.16e5	1.55	1.54	NO	0.9516	30.33	30.32	NO	1.001	1.000	47.6	95.1	NO
11	1,2,3,4,7,8-HxCDF	2.96e5	6.83e5	1.24	1.17	NO	0.8623	33.09	33.10	NO	1.000	1.000	49.2	96.3	NO
12	1,2,3,6,7,8-HxCDF	3.21e5	7.53e5	1.24	1.18	NO	0.8414	33.22	33.23	NO	1.000	1.001	56.6	102	NO
13	2,3,4,6,7,8-HxCDF	2.98e5	6.51e5	1.24	1.20	NO	0.8682	33.82	33.81	NO	1.001	1.001	50.9	102	NO
14	1,2,3,7,8,9-HxCDF	2.38e5	5.73e5	1.24	1.18	NO	0.8578	34.69	34.70	NO	1.000	1.000	48.7	97.5	NO
15	1,2,3,4,6,7,8-HpCDF	2.12e5	4.99e5	1.04	0.98	NO	0.8511	36.47	36.45	NO	1.001	1.000	49.6	99.7	NO
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.75e5	1.04	0.96	NO	0.9799	36.47	36.46	NO	1.000	1.001	51.6	104	NO
17	OCDF	3.98e5	9.80e5	0.89	0.84	NO	0.6055	41.08	41.05	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	8.41e5	7.18e5	0.77	0.75	NO	1.1985	25.64	25.65	NO	1.026	1.026	97.7	97.7	NO
19	13C-1,2,3,7,8-PeCDD	6.74e5	7.18e5	0.63	0.64	NO	0.9667	36.36	36.61	NO	1.215	1.224	97.2	97.2	NO

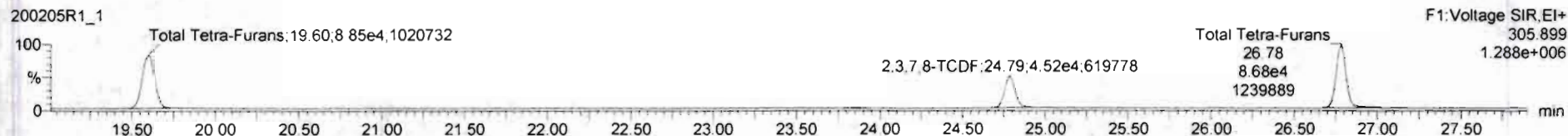
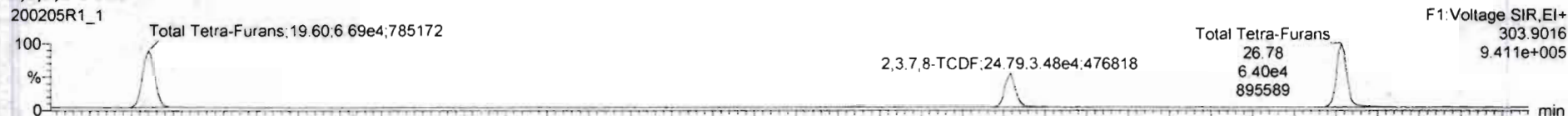


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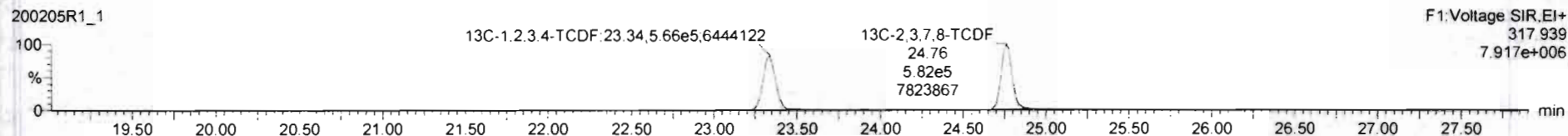
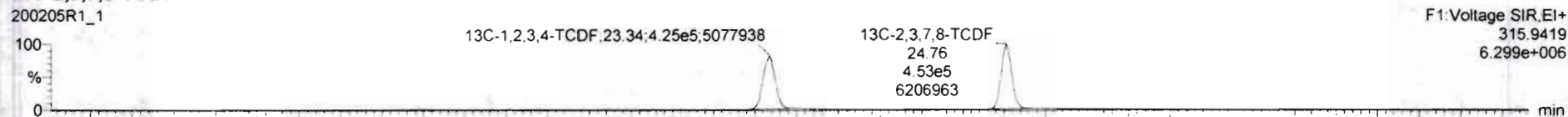
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Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

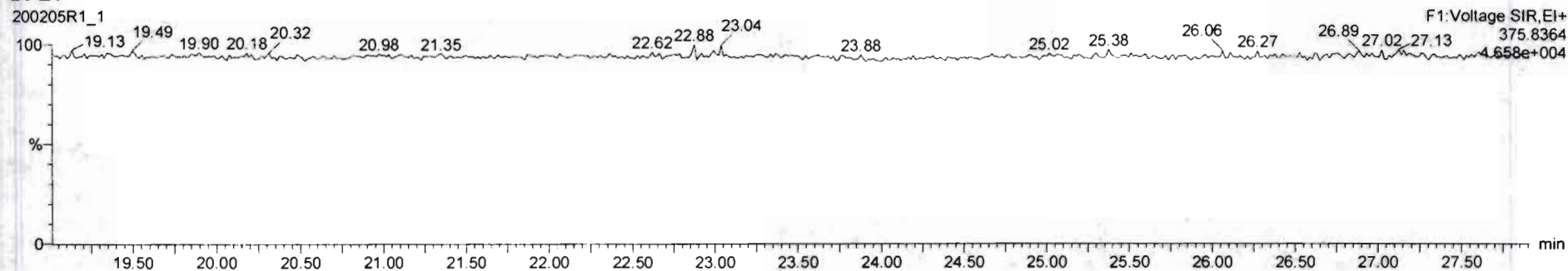
2,3,7,8-TCDF



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



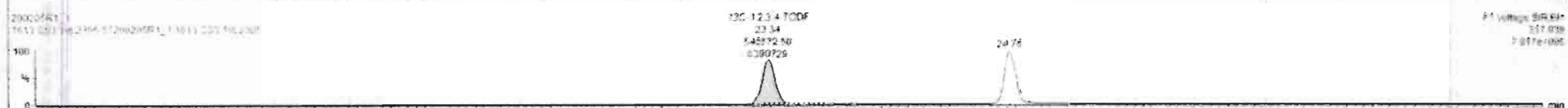
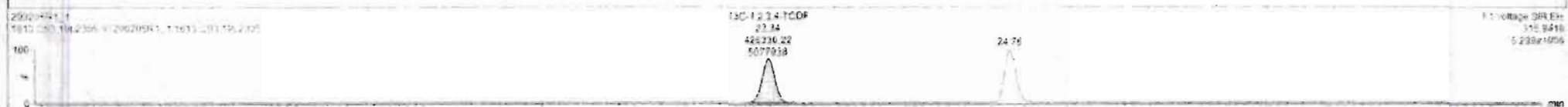
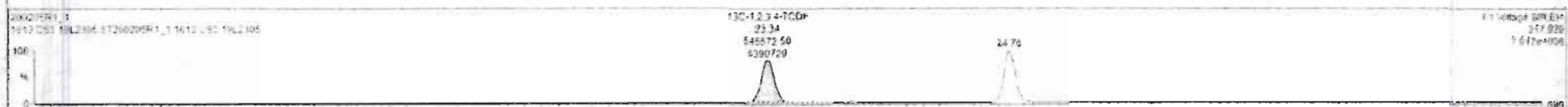
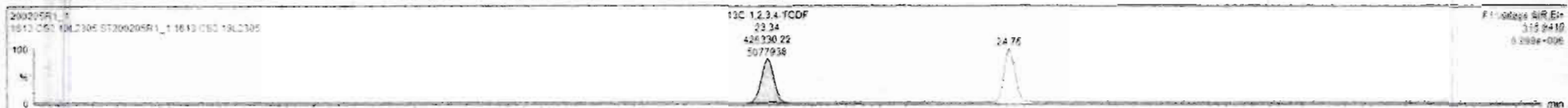
DPE1



#	Name	Resp	ES Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	2,3,7,8-TCDF	6.03e4	6.41e5	0.77	0.74	NO	0.9681	25.58	25.67	NO	1.001	1.001	5.67	96.7	NO
2	1,2,3,7,8-PeCDF	2.94e5	6.74e5	0.63	0.62	NO	0.9723	30.62	30.62	NO	1.001	1.001	44.9	89.7	NO
3	1,2,3,4,7,8-HxCDF	2.74e5	5.47e5	1.24	1.21	NO	1.0708	33.97	33.97	NO	1.000	1.000	46.7	93.4	NO
4	1,2,3,4,7,8-HxCDF	2.94e5	6.74e5	1.24	1.23	NO	0.9211	34.06	34.07	NO	1.000	1.000	47.4	94.9	NO
5	1,2,3,7,8,9-HxCDF	2.65e5	6.15e5	1.24	1.23	NO	0.9182	34.37	34.35	NO	1.001	1.000	46.5	93.8	NO
6	1,2,3,4,6,7,8-HpCDF	2.02e5	4.67e5	1.04	1.01	NO	0.9231	37.89	37.90	NO	1.000	1.001	46.8	93.7	NO
7	OCDF	4.23e5	9.27e5	0.69	0.87	NO	0.9748	40.89	40.90	NO	1.000	1.000	92.5	92.5	NO
8	2,3,7,8-TCDF	7.94e4	1.04e6	0.77	0.76	NO	0.9820	24.79	24.78	NO	1.001	1.001	9.58	95.8	NO
9	1,2,3,7,8-PeCDF	4.14e5	9.89e5	1.55	1.54	NO	0.9074	29.34	29.34	NO	1.001	1.001	47.0	94.1	NO
10	2,3,4,7,8-PeCDF	4.15e5	9.16e5	1.55	1.54	NO	0.9516	30.33	30.32	NO	1.001	1.000	47.6	95.1	NO
11	1,2,3,4,7,8-HxCDF	2.90e5	6.83e5	1.24	1.17	NO	0.8622	33.09	33.10	NO	1.000	1.000	49.2	96.3	NO
12	1,2,3,6,7,8-HxCDF	3.21e5	7.53e5	1.24	1.16	NO	0.8414	33.22	33.23	NO	1.000	1.001	50.6	102	NO
13	2,3,4,6,7,8-HxCDF	2.98e5	6.51e5	1.24	1.20	NO	0.8962	33.82	33.81	NO	1.001	1.001	50.5	102	NO
14	1,2,2,7,8,9-HxCDF	2.39e5	5.72e5	1.24	1.18	NO	0.8578	34.69	34.70	NO	1.000	1.000	48.7	97.5	NO
15	1,2,3,4,6,7,8-HpCDF	2.12e5	4.99e5	1.04	0.96	NO	0.8511	36.47	36.45	NO	1.001	1.000	49.8	99.7	NO
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.35e5	1.04	0.96	NO	0.9796	36.47	36.49	NO	1.000	1.001	51.9	104	NO
17	OCDF	3.98e5	9.88e5	0.69	0.54	NO	0.8055	41.08	41.09	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDF	6.41e5	7.16e5	0.77	0.75	NO	1.1985	25.64	25.65	NO	1.026	1.026	97.7	97.7	NO
19	13C-1,2,3,7,8-PeCDF	6.74e5	7.15e5	0.63	0.64	NO	0.9667	30.36	30.61	NO	1.215	1.224	97.2	97.2	NO



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
22	13C-1,2,3,7,8-HxCDD	6.15e5	6.49e5	1.24	1.22	NO	0.9744	34.36	34.34	NO	1.026	1.025	97.2	97.2	NO
23	13C-1,2,3,4,6,7,8-HpCDD	4.67e5	6.49e5	1.04	1.05	NO	0.7472	37.91	37.88	NO	1.132	1.131	96.3	96.3	NO
24	13C-OCDD	6.27e5	6.49e5	0.89	0.88	NO	0.7065	40.78	40.89	NO	1.218	1.221	202	101	NO
25	13C-2,3,7,8-TCDF	1.04e6	9.71e5	0.77	0.76	NO	1.0653	24.83	24.76	NO	0.993	0.990	100	100	NO
26	13C-1,2,3,7,8-PeCDF	9.72e5	9.71e5	1.55	1.58	NO	1.0017	29.15	29.32	NO	1.166	1.172	99.9	99.9	NO
27	13C-1,2,3,4,7,8-PeCDF	9.18e5	9.71e5	1.55	1.57	NO	0.9617	30.10	30.30	NO	1.204	1.212	96.3	96.3	NO
28	13C-1,2,3,4,7,8-HxCDF	6.83e5	6.49e5	0.51	0.50	NO	1.0462	33.09	33.09	NO	0.986	0.985	100	100	NO
29	13C-1,2,3,6,7,8-HxCDF	7.53e5	6.49e5	0.51	0.51	NO	1.1899	33.19	33.21	NO	0.991	0.992	97.4	97.4	NO
30	13C-2,3,4,6,7,8-HxCDF	6.51e5	6.49e5	0.51	0.51	NO	1.0962	33.79	33.78	NO	1.009	1.009	94.0	94.0	NO
31	13C-1,2,3,7,8,9-HxCDF	5.73e5	6.49e5	0.51	0.49	NO	0.9224	34.89	34.69	NO	1.036	1.036	95.6	95.6	NO
32	13C-1,2,3,4,6,7,8-HpCDF	4.99e5	6.49e5	0.44	0.43	NO	0.7672	36.43	36.44	NO	1.088	1.088	100	100	NO
33	13C-1,2,3,4,7,8,9-HpCDF	3.35e5	6.49e5	0.44	0.43	NO	0.5523	36.44	36.47	NO	1.148	1.149	93.5	93.5	NO
34	13C-OCDF	9.02e5	6.49e5	0.69	0.67	NO	0.7894	41.02	41.08	NO	1.225	1.227	152	95.8	NO
35	13C-2,3,7,8-TCDF	7.80e4	7.18e5				1.1762	25.68	25.67	NO	1.027	1.027	9.24	92.4	NO
36	13C-1,2,3,4-TCDF	7.18e5	7.18e5	0.77	0.80	NO	1.0090	25.08	25.00	NO	1.000	1.000	100	100	NO
37	13C-1,2,3,4-TCDF	6.71e5	6.71e5	0.77	0.78	NO	1.0090	25.42	25.34	NO	1.000	1.000	100	100	NO
38	13C-1,2,3,4,6,8-HxCDF	6.49e5	6.49e5	0.51	0.50	NO	1.0060	33.52	33.49	NO	1.000	1.000	100	100	YES
39	Total Tetra-Dioxins		6.41e5				0.9881	24.62		NO	0.000		61.0		NO
40	Total Penta-Dioxins		6.74e5				0.9722	29.96		NO	0.000		292		NO



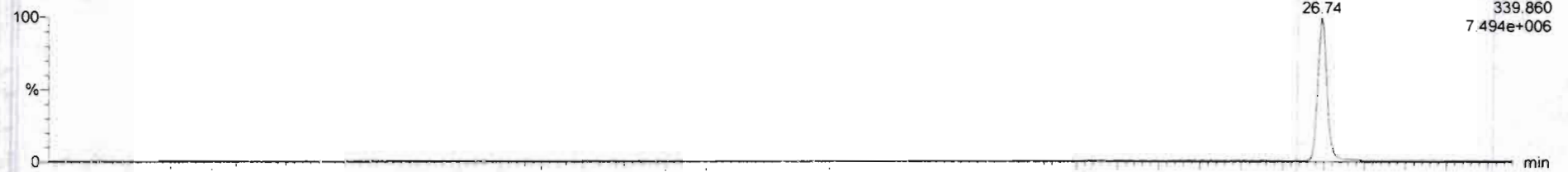
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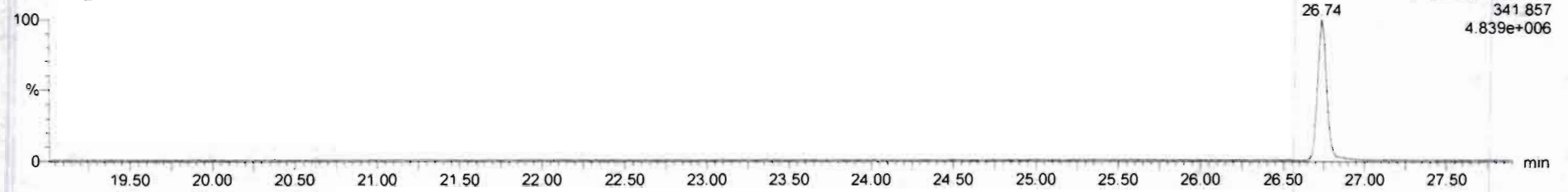
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1st Func. Penta-Furans

200205R1_1

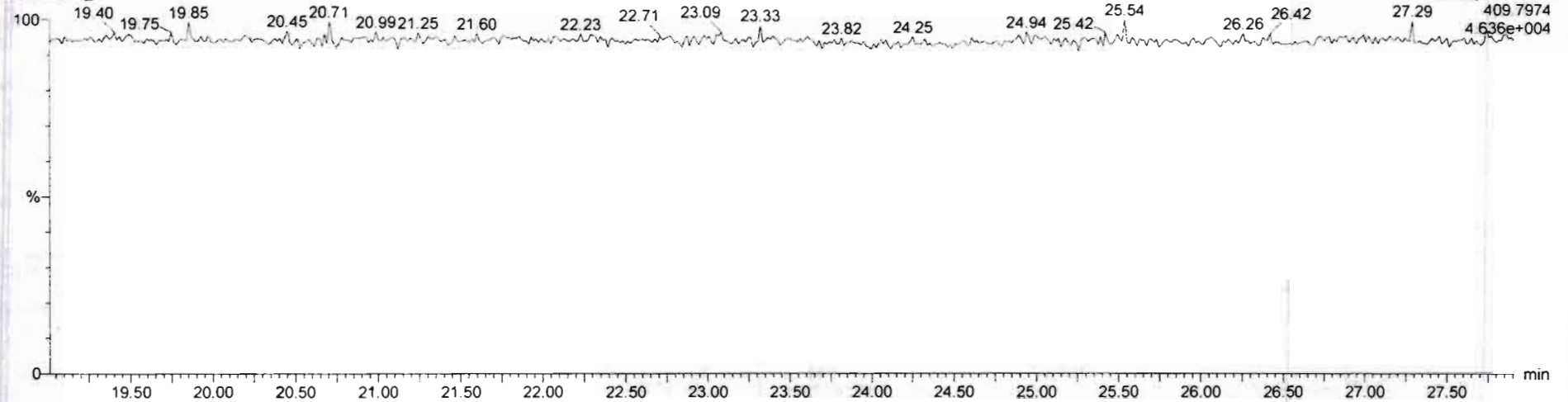


200205R1_1



DPE6

200205R1_1



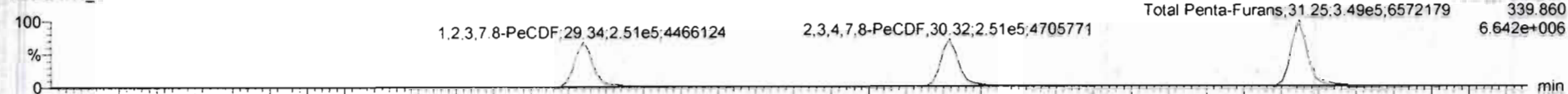
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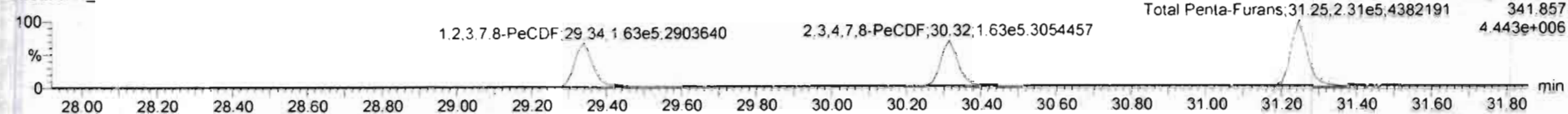
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1,2,3,7,8-PeCDF

200205R1_1

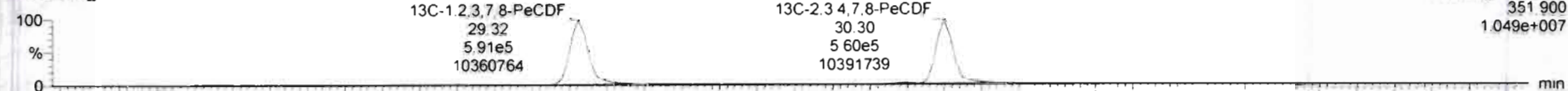


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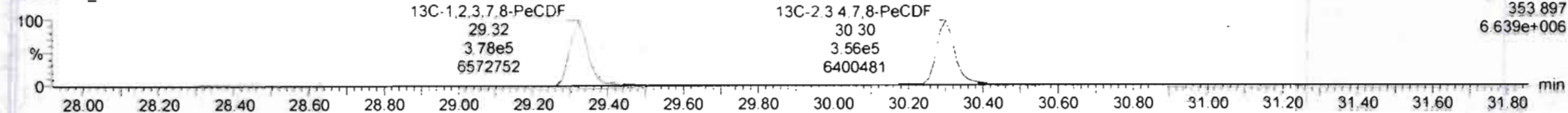


13C-1,2,3,7,8-PeCDF

200205R1_1

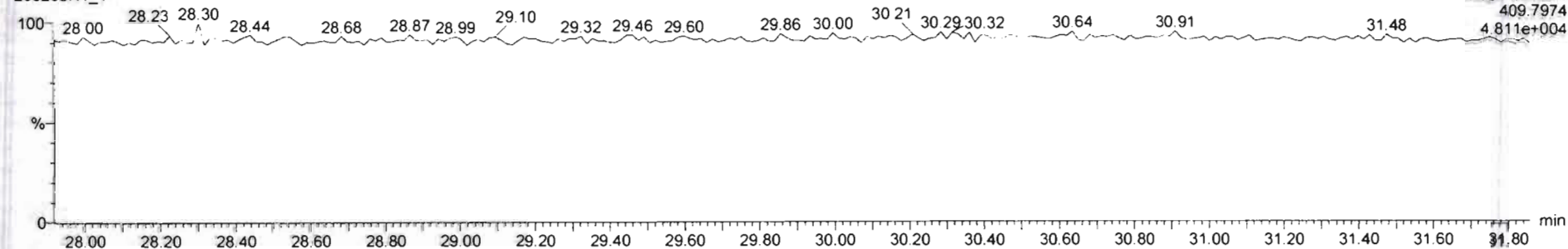


200205R1_1



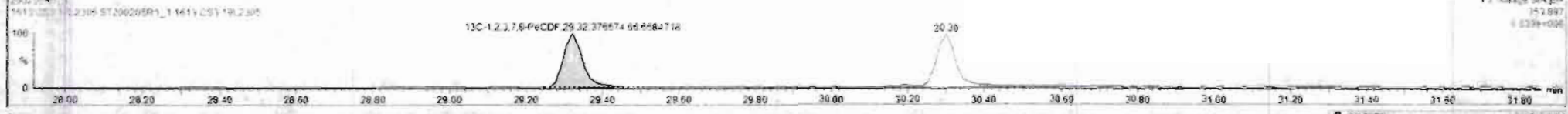
DPE2

200205R1_1



200205R1_1 - ST200205R1_1 16:13 CS3 19L2305 1613 CS3 19L2305

#	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	6.03e4	6.41e5	0.77	0.74	NO	0.9581	25.59	25.67	NO	1.001	1.001	9.67	96.7	NO
2	1,2,3,7,8-PeCDD	2.94e5	6.74e5	0.63	0.62	NO	0.9723	30.63	30.62	NO	1.001	1.001	44.9	89.7	NO
3	1,2,3,4,7,8-HxCDD	2.74e5	5.47e5	1.24	1.21	NO	1.0708	33.97	32.97	NO	1.000	1.000	46.7	93.4	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.74e5	1.24	1.23	NO	0.9211	34.06	34.07	NO	1.000	1.000	47.4	94.9	NO
5	1,2,3,7,8-HxCDD	2.65e5	6.15e5	1.24	1.23	NO	0.9162	34.37	34.35	NO	1.001	1.000	46.9	93.8	NO
6	1,2,3,4,6,7,8-HpCDD	2.02e5	4.67e5	1.04	1.01	NO	0.9231	37.89	37.90	NO	1.000	1.001	46.8	93.7	NO
7	OCDD	4.23e5	9.27e5	0.89	0.87	NO	0.8745	46.89	46.90	NO	1.000	1.000	93.5	93.5	NO
8	2,3,7,8-TCDF	7.94e4	1.04e6	0.77	0.76	NO	0.8020	24.79	24.79	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	4.07e5	9.72e5	1.55	1.53	NO	0.9674	29.34	29.34	NO	1.001	1.001	46.1	92.3	NO
10	2,3,4,7,8-PeCDF	4.15e5	9.16e5	1.55	1.54	NO	0.9510	30.33	30.32	NO	1.001	1.000	47.6	95.1	NO
11	1,2,3,4,7,8-HxCDF	2.90e5	6.83e5	1.24	1.17	NO	0.8623	33.09	33.10	NO	1.000	1.000	49.2	96.3	NO
12	1,2,3,6,7,8-HxCDF	3.21e5	7.53e5	1.24	1.19	NO	0.8414	33.22	33.23	NO	1.000	1.001	50.6	102	NO
13	2,3,4,6,7,8-HxCDF	2.98e5	6.51e5	1.24	1.20	NO	0.8962	33.82	33.81	NO	1.001	1.001	50.9	102	NO
14	1,2,3,7,8-HxCDF	2.39e5	5.72e5	1.24	1.18	NO	0.8572	34.69	34.70	NO	1.000	1.000	48.7	97.5	NO
15	1,2,3,4,6,7,8-HpCDF	2.12e5	4.99e5	1.04	0.98	NO	0.8511	36.47	36.45	NO	1.001	1.000	49.8	99.7	NO
16	1,2,3,4,7,8,9-HxCDF	1.71e5	3.25e5	1.04	0.96	NO	0.9799	36.47	36.49	NO	1.000	1.001	61.9	104	NO
17	OCDF	3.90e5	9.80e5	0.89	0.84	NO	0.8055	41.05	41.09	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	5.41e5	7.18e5	0.77	0.75	NO	1.1985	25.64	25.65	NO	1.026	1.026	97.7	97.7	NO
19	13C-1,2,3,7,8-PeCDD	6.74e5	7.18e5	0.63	0.64	NO	0.9667	30.38	30.61	NO	1.215	1.224	97.2	97.2	NO

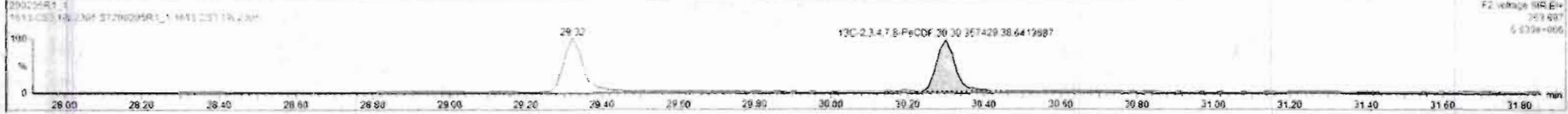


TargetLynx - 200205R1_1.qtd - Chromatogram

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200205R1_1 ST200205R1_1 1613 CS3 19L2305 1613 CS3 19L2305

#	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-TCDF	8.03e4	6.41e5	0.77	0.74	NO	0.9881	25.68	25.67	NO	1.001	1.001	9.87	96.7	NO
2	1,2,3,7,8-PeCDD	2.94e5	6.74e5	0.63	0.62	NO	0.9723	30.61	30.62	NO	1.001	1.001	44.9	69.7	NO
3	1,2,3,4,7,8-HxCDD	2.74e5	5.47e5	1.24	1.21	NO	1.0708	33.97	33.97	NO	1.000	1.000	46.7	93.4	NO
4	1,2,3,6,7,8-HxCDD	2.94e5	6.74e5	1.24	1.23	NO	0.9211	34.06	34.07	NO	1.000	1.000	47.4	94.9	NO
5	1,2,3,7,8,9-HxCDD	2.65e5	6.15e5	1.24	1.23	NO	0.9182	34.37	34.35	NO	1.001	1.000	46.9	93.8	NO
6	1,2,3,4,6,7,8-HpCDD	2.02e5	4.67e5	1.04	1.01	NO	0.9231	37.89	37.90	NO	1.000	1.001	46.8	92.7	NO
7	OCDF	4.23e5	9.27e5	0.89	0.87	NO	0.6746	40.89	40.90	NO	1.000	1.000	52.5	93.5	NO
8	2,3,7,8-TCDF	7.94e4	1.04e6	0.77	0.76	NO	0.8920	24.79	24.79	NO	1.001	1.001	9.56	95.6	NO
9	1,2,3,7,8-PeCDF	4.07e5	9.72e5	1.55	1.53	NO	0.9074	29.34	29.34	NO	1.001	1.001	46.1	92.1	NO
10	2,3,4,7,8-PeCDF	4.06e5	9.18e5	1.55	1.53	NO	0.9518	30.33	30.32	NO	1.001	1.001	46.4	82.9	NO
11	1,2,3,4,7,8-HxCDF	2.90e5	6.83e5	1.24	1.17	NO	0.8623	33.09	33.10	NO	1.000	1.000	49.2	96.3	NO
12	1,2,3,6,7,8-HxCDF	3.21e5	7.53e5	1.24	1.18	NO	0.8414	33.22	33.22	NO	1.000	1.001	50.6	102	NO
13	2,3,4,6,7,8-HxCDF	2.98e5	6.51e5	1.24	1.20	NO	0.8962	33.82	33.81	NO	1.001	1.001	50.9	102	NO
14	1,2,3,7,8,9-HxCDF	2.39e5	5.73e5	1.24	1.12	NO	0.8578	34.89	34.70	NO	1.000	1.000	45.7	97.5	NO
15	1,2,3,4,6,7,8-HpCDF	2.12e5	4.99e5	1.04	0.98	NO	0.8511	36.47	36.45	NO	1.001	1.000	49.9	99.7	NO
16	1,2,3,4,7,8,9-HpCDF	1.71e5	3.35e5	1.04	0.96	NO	0.9799	36.47	36.49	NO	1.000	1.001	51.9	104	NO
17	OCDF	3.98e5	9.88e5	0.89	0.84	NO	0.8055	41.08	41.09	NO	1.000	1.000	100	100	NO
18	13C-2,3,7,8-TCDD	6.41e5	7.18e5	0.77	0.75	NO	1.1985	25.64	25.65	NO	1.026	1.026	97.7	97.7	NO
19	13C-1,2,3,7,8-PeCDD	6.74e5	7.18e5	0.63	0.64	NO	0.9667	30.30	30.61	NO	1.215	1.224	97.2	97.2	NO



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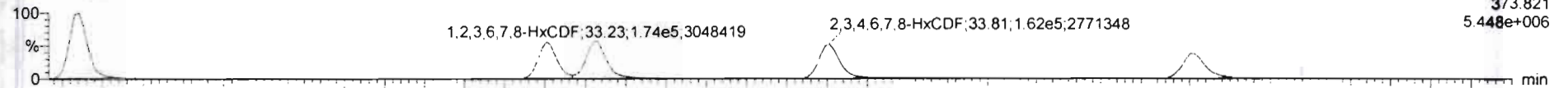
Last Altered: Wednesday, February 05, 2020 14:47:29 Pacific Standard Time

Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

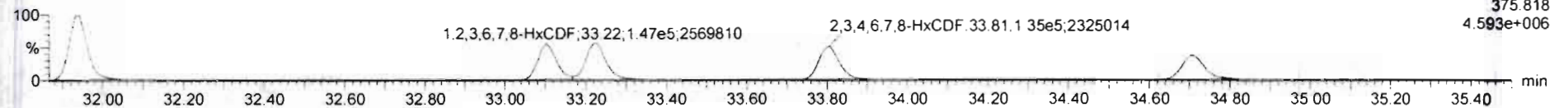
Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200205R1_1

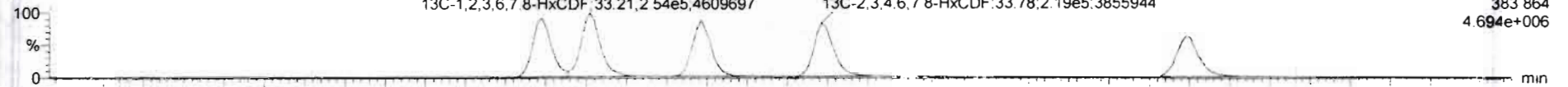


200205R1_1

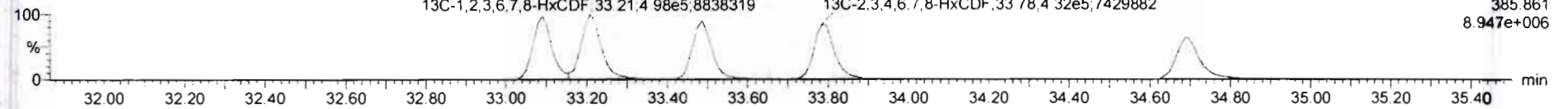


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200205R1_1

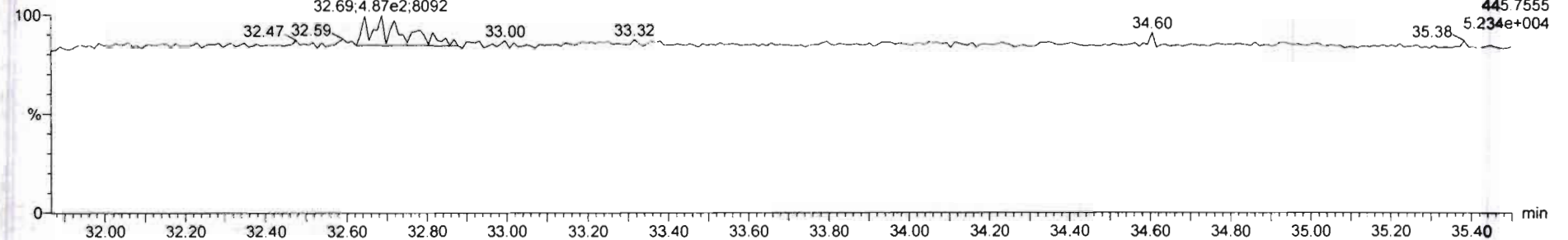


200205R1_1



DPE3

200205R1_1

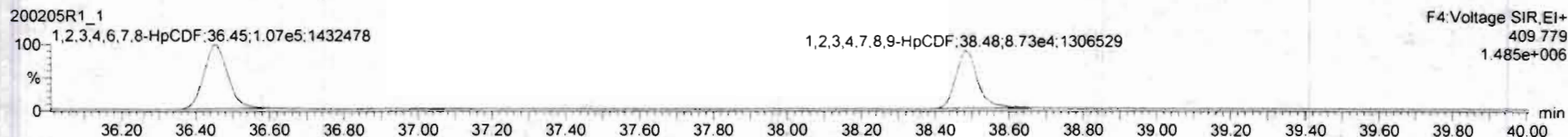


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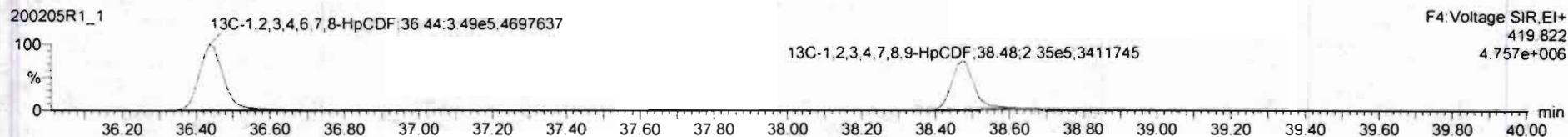
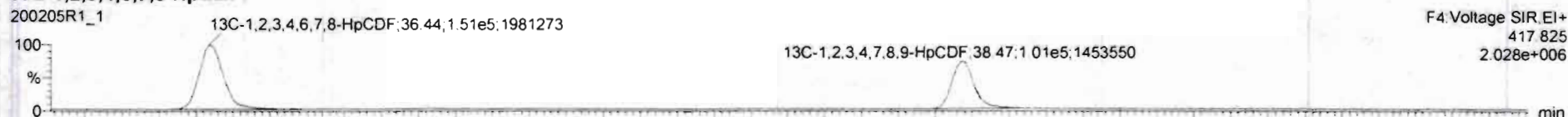
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Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

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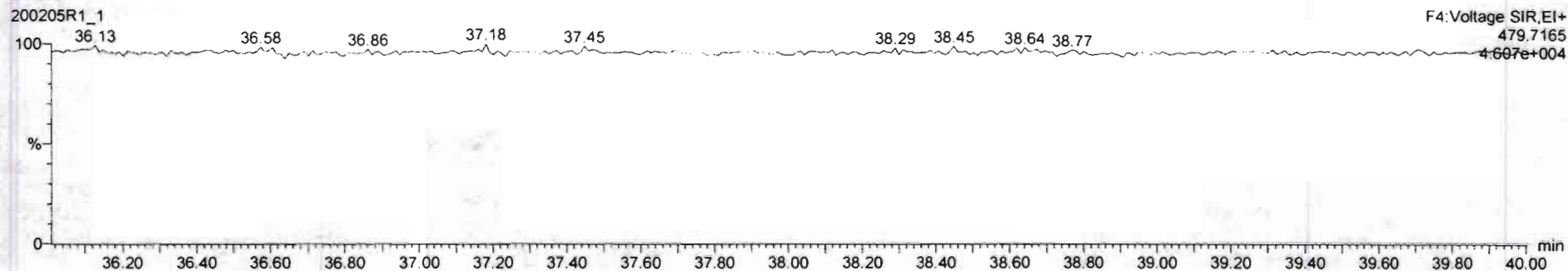
1,2,3,4,6,7,8-HpCDF



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



DPE4

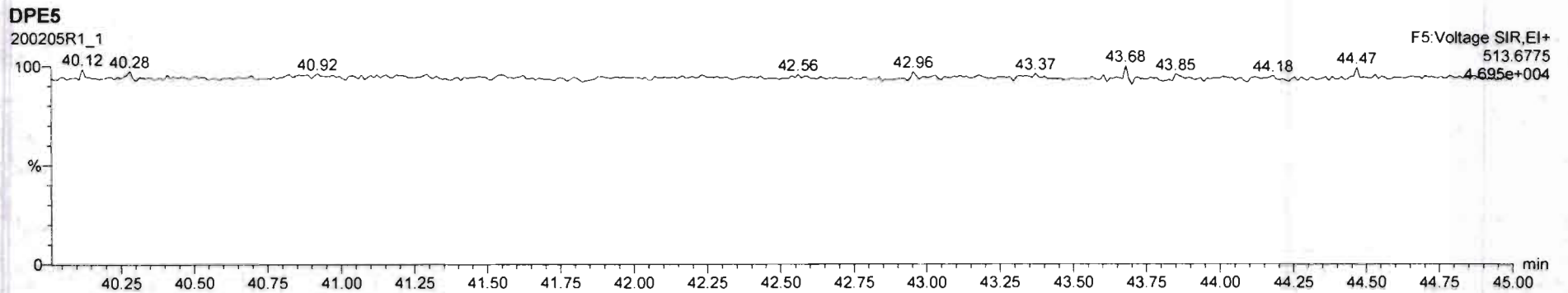
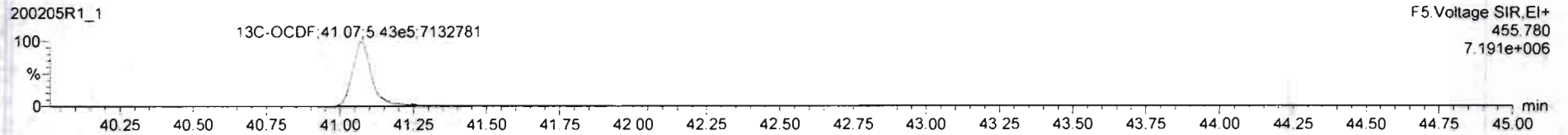
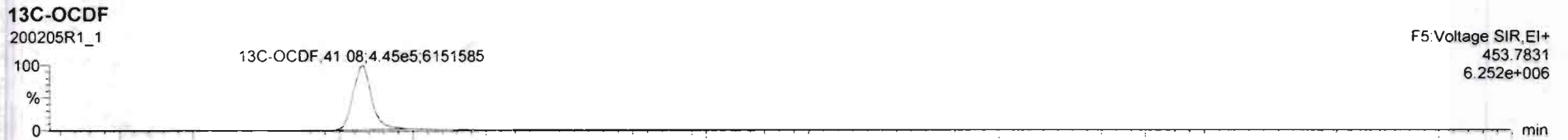
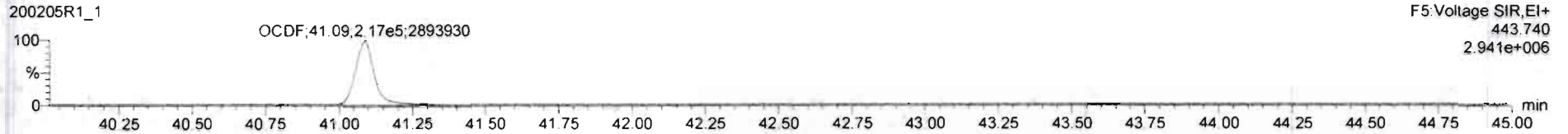
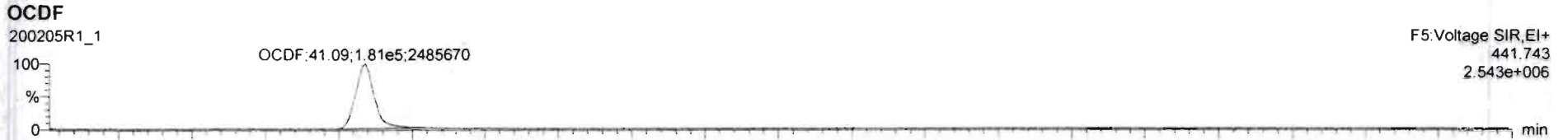


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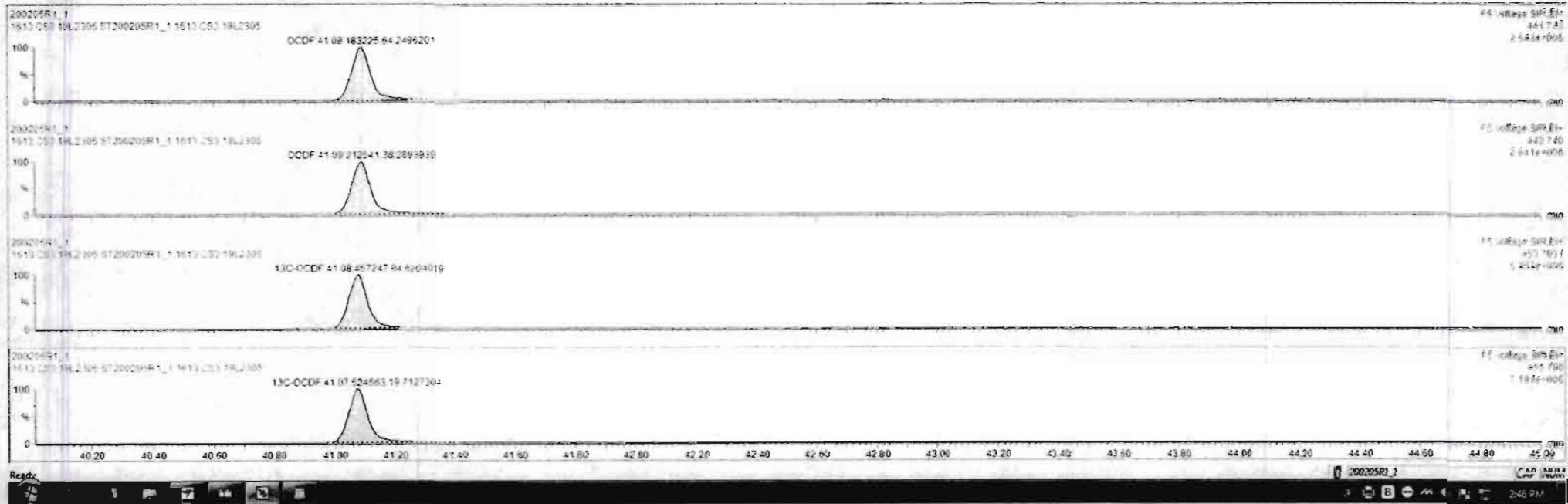
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Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

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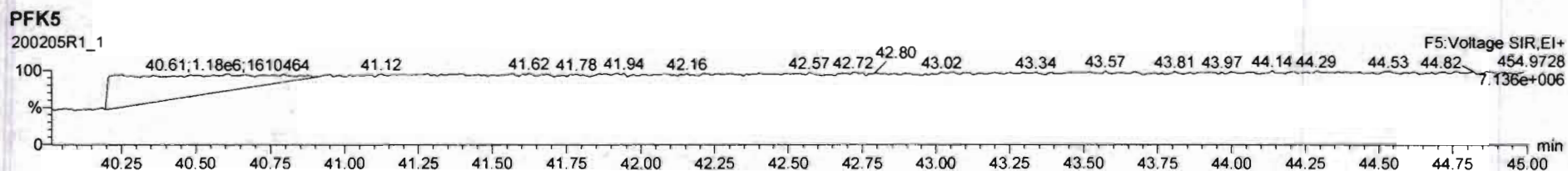
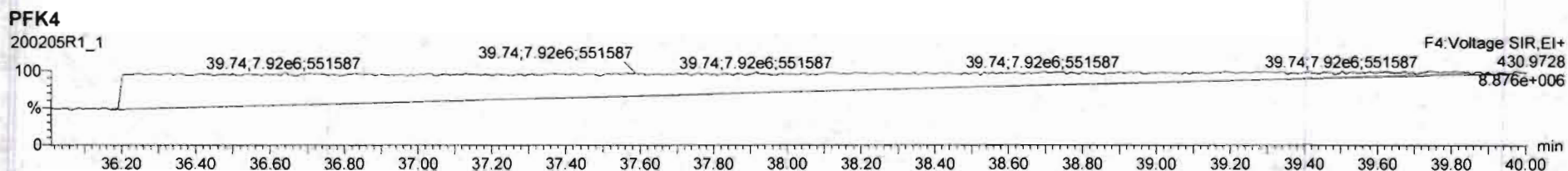
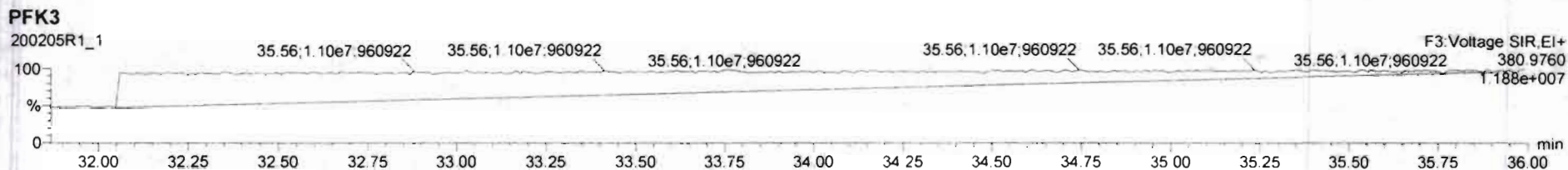
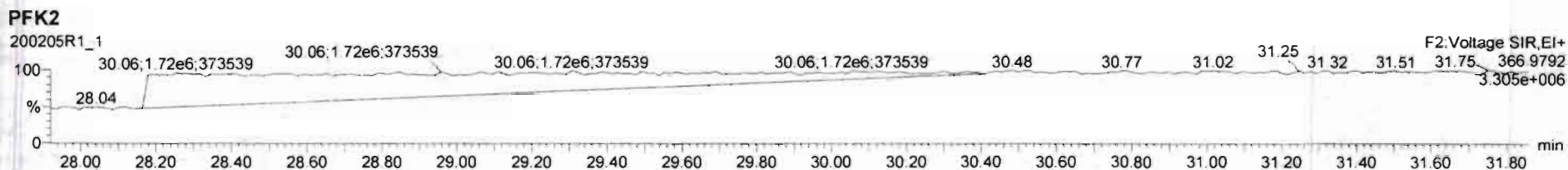
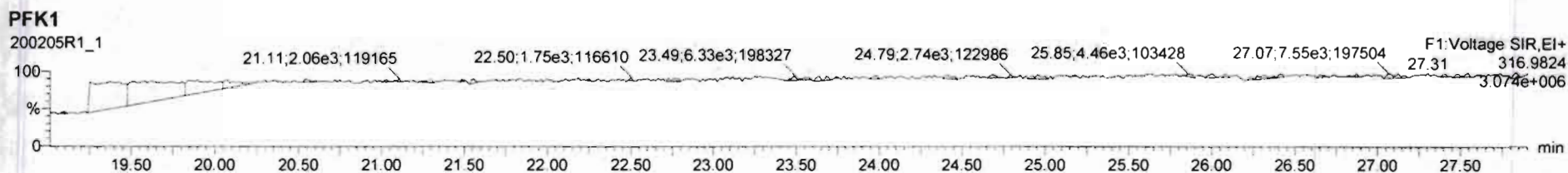
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1	1 2,3,7,8-TCDD	6.03e4	6.41e5	0.77	0.74	NO	0.9881	25.58	25.67	NO	1.001	1.001	5.67	96.7	ND
2	2 1,2,3,7,8-PeCDD	2.94e5	6.74e5	0.62	0.62	NO	0.9723	36.62	36.62	NO	1.001	1.001	44.9	89.7	ND
3	3 1,2,3,4,7,8-HxCDD	2.74e5	5.47e5	1.24	1.21	NO	1.0702	33.97	33.97	NO	1.000	1.000	46.7	93.4	ND
4	4 1,2,3,6,7,8-HxCDD	2.54e5	6.74e5	1.24	1.23	NO	0.9211	34.06	34.07	NO	1.000	1.000	47.4	94.5	ND
5	5 1,2,3,7,8,9-HxCDD	2.65e5	6.15e5	1.24	1.23	NO	0.9162	34.37	34.35	NO	1.001	1.000	46.9	93.6	ND
6	6 1,2,3,4,6,7,8-HpCDD	2.02e5	4.67e5	1.04	1.01	NO	0.9231	37.89	37.90	NO	1.000	1.001	46.8	93.7	ND
7	7 OCDD	4.22e5	9.27e5	0.89	0.87	NO	0.9746	46.89	46.90	NO	1.000	1.000	52.5	93.5	ND
8	8 2,3,7,8-TCDF	7.94e4	1.04e6	0.77	0.76	NO	0.8020	24.79	24.79	NO	1.001	1.001	9.58	95.6	ND
9	9 1,2,3,7,8-PeCDF	4.07e5	9.72e5	1.55	1.53	NO	0.9074	29.34	29.34	NO	1.001	1.001	46.1	92.2	ND
10	10 2,3,4,7,8-PeCDF	4.06e5	9.18e5	1.55	1.53	NO	0.9518	30.33	30.32	NO	1.001	1.001	46.4	92.9	ND
11	11 1,2,3,4,7,8-HxCDF	2.90e5	6.83e5	1.24	1.17	NO	0.8623	32.09	32.10	NO	1.000	1.000	49.2	96.3	ND
12	12 1,2,3,6,7,8-HxCDF	3.21e5	7.53e5	1.24	1.18	NO	0.8414	32.22	32.23	NO	1.000	1.001	50.6	102	ND
13	13 2,3,4,6,7,8-HxCDF	2.98e5	6.51e5	1.24	1.20	NO	0.8962	33.82	33.81	NO	1.001	1.001	50.9	102	ND
14	14 1,2,3,7,8,9-HxCDF	2.39e5	5.73e5	1.24	1.18	NO	0.8570	34.69	34.70	NO	1.000	1.000	48.7	97.5	ND
15	15 1,2,3,4,6,7,8-HpCDF	2.12e5	4.99e5	1.04	0.98	NO	0.8511	36.47	36.45	NO	1.001	1.000	49.8	98.7	ND
16	16 1,2,3,4,7,8-HpCDF	1.71e5	3.35e5	1.04	0.96	NO	0.9799	36.47	36.49	NO	1.000	1.001	51.9	104	ND
17	17 OCDF	3.96e5	9.82e5	0.89	0.86	NO	0.8955	41.06	41.09	NO	1.000	1.000	100	100	ND
18	18 13C-2,3,7,8-TCDD	6.41e5	7.18e5	0.77	0.75	NO	1.1985	25.64	25.65	NO	1.026	1.026	57.7	97.7	ND
19	19 13C-1,2,3,7,8-PeCDD	6.74e5	7.18e5	0.62	0.64	NO	0.9867	36.38	36.61	NO	1.215	1.224	97.2	97.2	ND



Dataset: Untitled

Last Altered: Wednesday, February 05, 2020 14:47:29 Pacific Standard Time
Printed: Wednesday, February 05, 2020 14:48:14 Pacific Standard Time

Name: 200205R1_1, Date: 05-Feb-2020, Time: 08:29:36, ID: ST200205R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

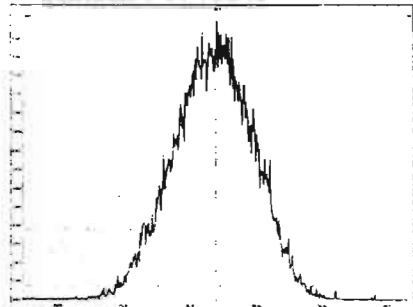


Resolution Check Report

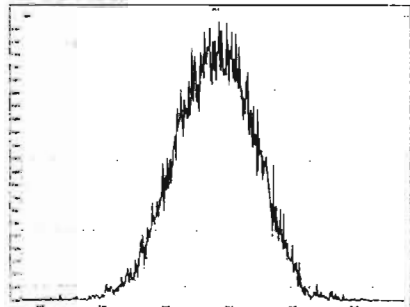
MassLynx 4.1 SCN815

Printed: Wednesday, February 05, 2020 22:28:11 Pacific Standard Time

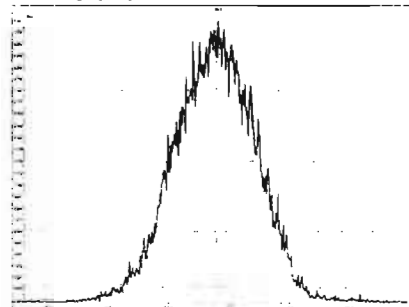
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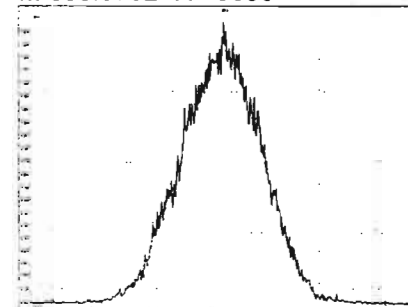
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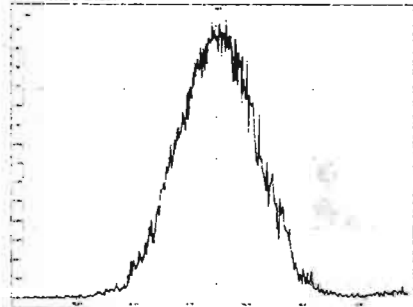
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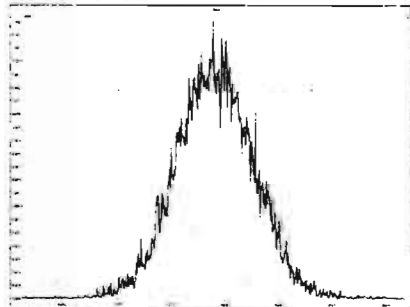
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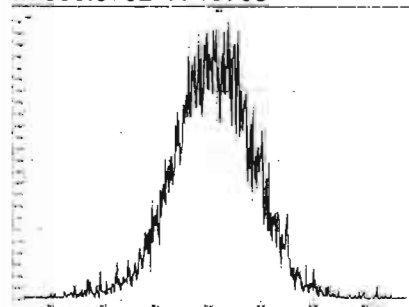
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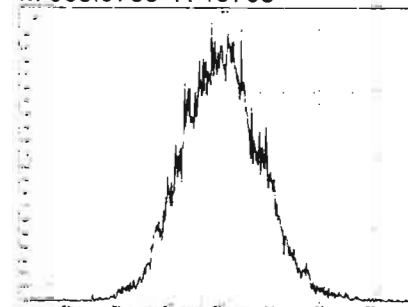
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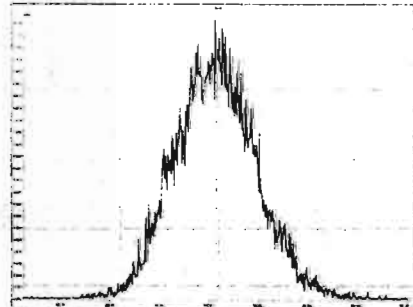
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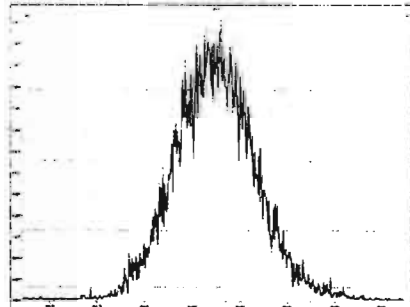
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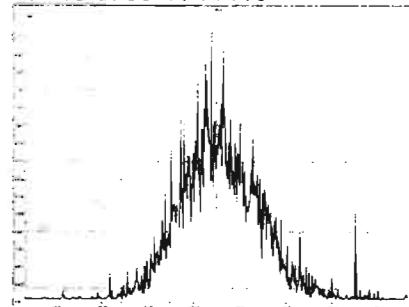
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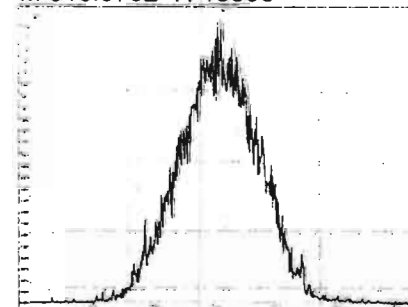
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M 416.9760 R 11418

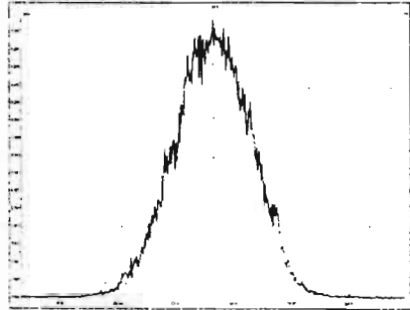


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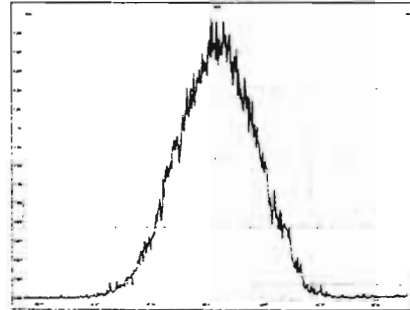


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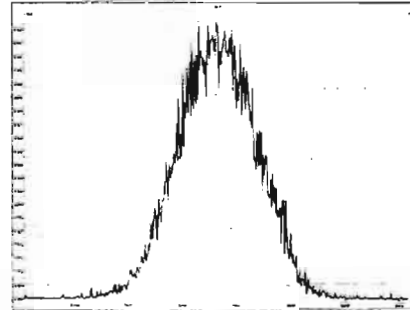
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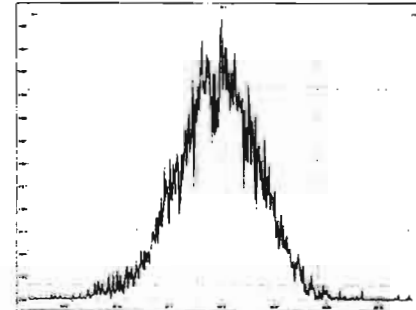
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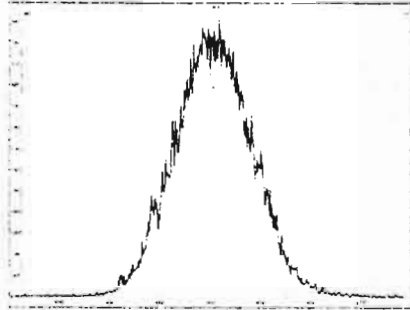
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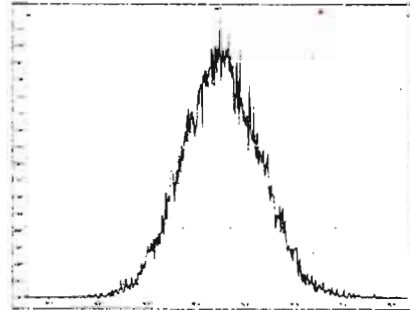
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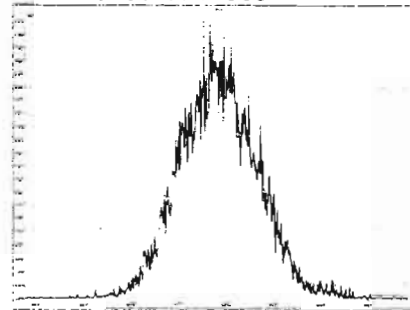
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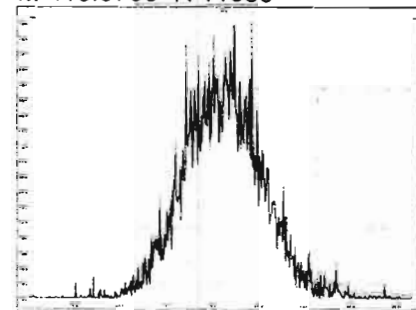
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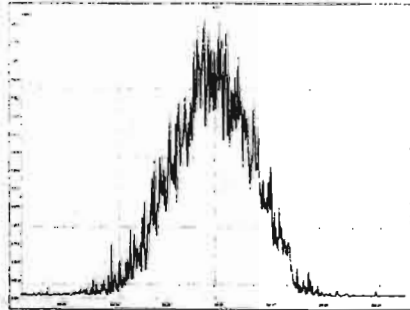
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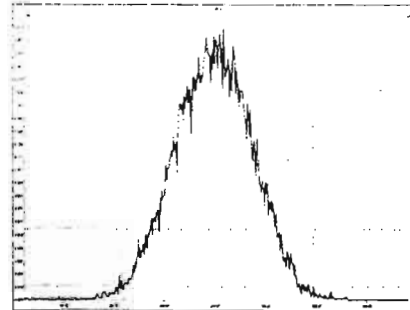
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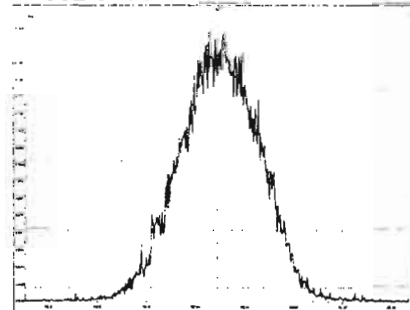
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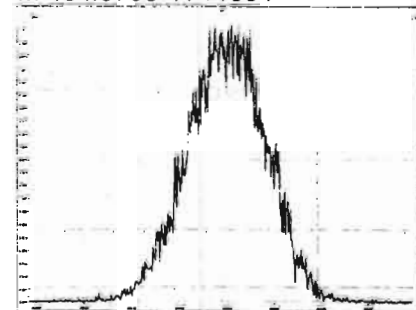
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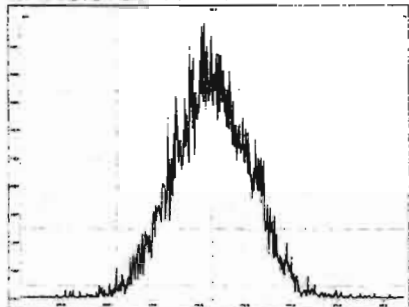


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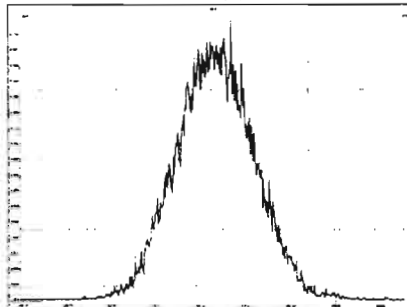


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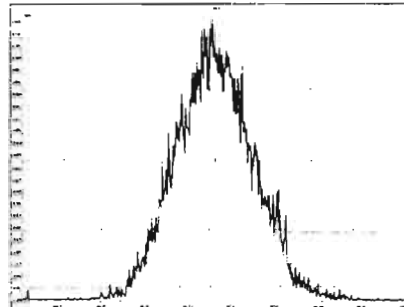
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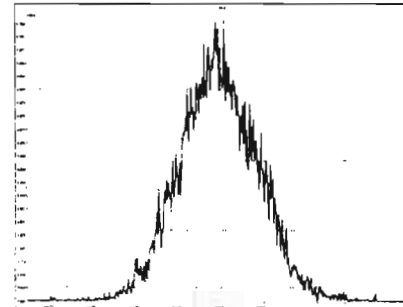
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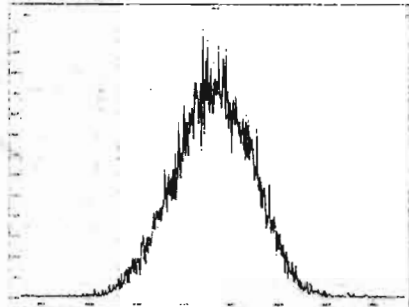
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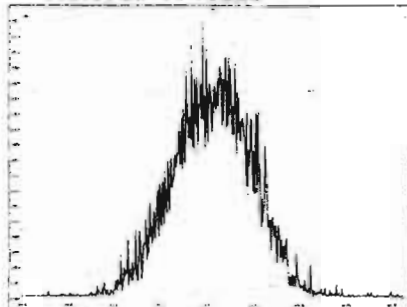
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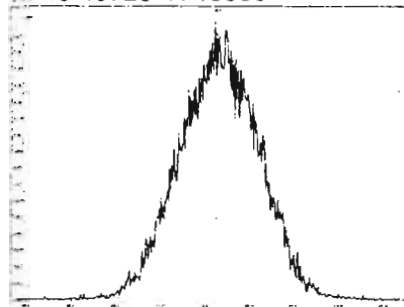
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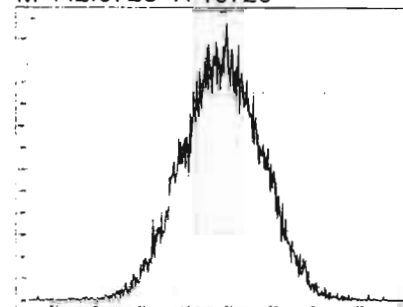
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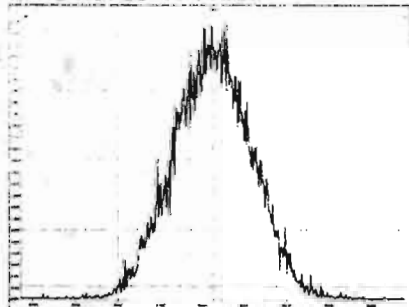
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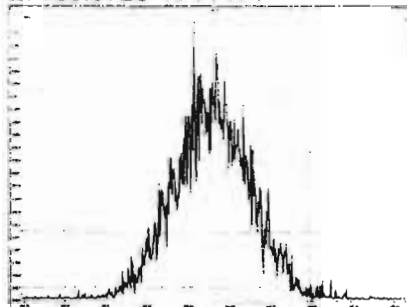
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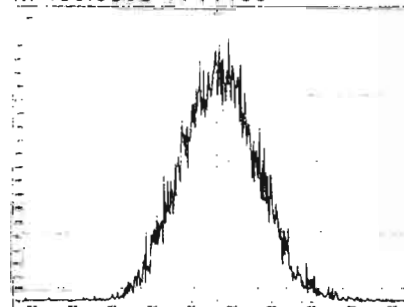
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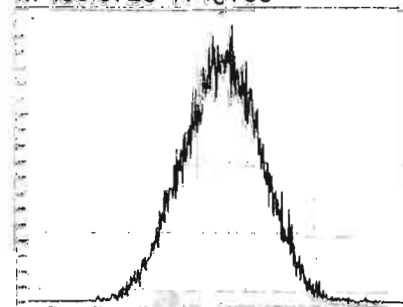
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M 480.9696 R 11188

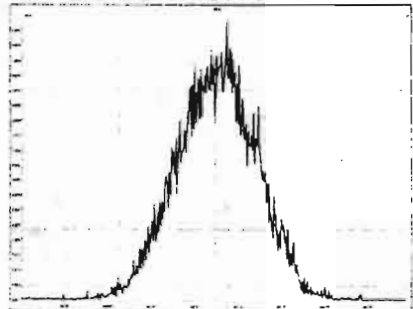


M 430.9728 R 10736

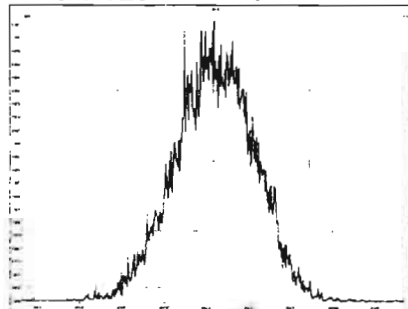


Printed: Wednesday, February 05, 2020 22:28:11 Pacific Standard Time

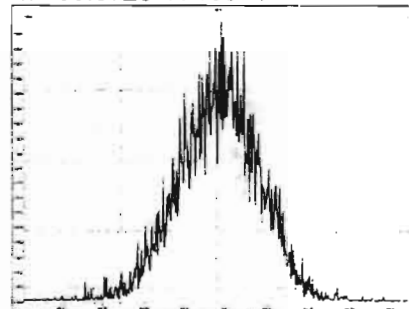
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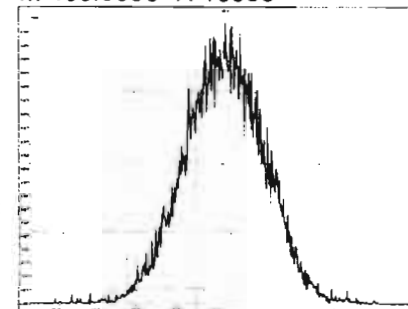
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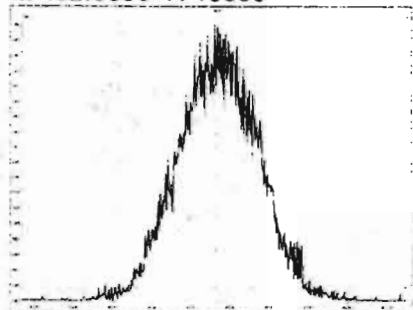
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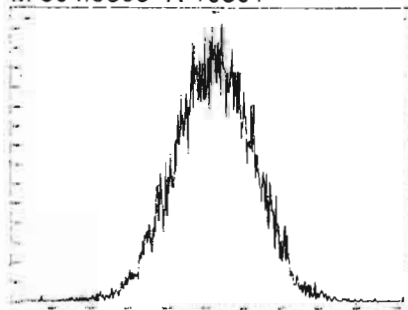
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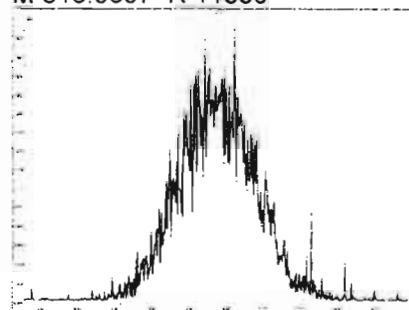
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M 504.9696 R 10801



M 516.9697 R 11550



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20020914-1

Reviewed By: CT 02/10/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GRB</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ↓
- Samples within 12 hour clock?	<input checked="" type="checkbox"/> (Y)	<input type="checkbox"/> N
- Bottle position verified?	<u>GRB</u>	<input type="checkbox"/>

Mass resolution ≥

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

(A) END RES CHECK HAD PFK DRAIN RESULTING IN SOME MASSES <10K RESOLUTION.

Dataset: U:\VG12.PRO\Results\200209R1\200209R1-1.qld

Last Altered: Monday, February 10, 2020 09:34:37 Pacific Standard Time
Printed: Monday, February 10, 2020 09:35:11 Pacific Standard Time

GRB 02/10/2020

C: 02/10/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	1.51e5	1.61e6	0.79	NO	0.988	25.72	25.70	NO	1.001	1.001	9.4943	94.9	NO
2	2 1,2,3,7,8-PeCDD	5.51e5	1.22e6	0.64	NO	0.972	30.72	30.71	NO	1.001	1.000	46.325	92.7	NO
3	3 1,2,3,4,7,8-HxCDD	5.96e5	1.08e6	1.24	NO	1.07	34.06	34.06	NO	1.000	1.000	51.533	103	NO
4	4 1,2,3,6,7,8-HxCDD	5.97e5	1.35e6	1.24	NO	0.921	34.16	34.17	NO	1.000	1.000	48.129	96.3	NO
5	5 1,2,3,7,8,9-HxCDD	5.51e5	1.21e6	1.22	NO	0.918	34.47	34.44	NO	1.001	1.000	49.567	99.1	NO
6	6 1,2,3,4,6,7,8-HpCDD	4.50e5	9.71e5	1.04	NO	0.923	37.96	37.96	NO	1.000	1.000	50.226	100	NO
7	7 OCDD	8.75e5	1.82e6	0.89	NO	0.975	40.97	40.99	NO	1.000	1.000	98.747	98.7	NO
8	8 2,3,7,8-TCDF	1.85e5	2.22e6	0.77	NO	0.802	24.80	24.79	NO	1.001	1.001	10.391	104	NO
9	9 1,2,3,7,8-PeCDF	8.12e5	1.77e6	1.53	NO	0.907	29.42	29.42	NO	1.001	1.001	50.662	101	NO
10	10 2,3,4,7,8-PeCDF	8.37e5	1.75e6	1.56	NO	0.952	30.41	30.39	NO	1.001	1.000	50.132	100	NO
11	11 1,2,3,4,7,8-HxCDF	6.09e5	1.28e6	1.20	NO	0.862	33.19	33.20	NO	1.000	1.000	55.094	110	NO
12	12 1,2,3,6,7,8-HxCDF	6.61e5	1.38e6	1.22	NO	0.841	33.33	33.33	NO	1.000	1.000	56.883	114	NO
13	13 2,3,4,6,7,8-HxCDF	7.33e5	1.44e6	1.22	NO	0.898	33.91	33.89	NO	1.001	1.000	56.735	113	NO
14	14 1,2,3,7,8,9-HxCDF	5.69e5	1.20e6	1.20	NO	0.858	34.78	34.79	NO	1.000	1.000	55.086	110	NO
15	15 1,2,3,4,6,7,8-HpCDF	5.06e5	1.09e6	1.00	NO	0.851	36.55	36.52	NO	1.001	1.000	54.345	109	NO
16	16 1,2,3,4,7,8,9-HpCDF	4.40e5	7.86e5	1.00	NO	0.980	38.56	38.57	NO	1.000	1.000	57.068	114	NO
17	17 OCDF	9.36e5	2.12e6	0.88	NO	0.806	41.15	41.17	NO	1.000	1.000	109.72	110	NO
18	18 13C-2,3,7,8-TCDD	1.61e6	1.36e6	0.78	NO	1.20	25.69	25.69	NO	1.026	1.026	98.298	98.3	NO
19	19 13C-1,2,3,7,8-PeCDD	1.22e6	1.36e6	0.63	NO	0.967	30.43	30.70	NO	1.215	1.226	92.911	92.9	NO
20	20 13C-1,2,3,4,7,8-HxCDD	1.08e6	1.27e6	1.29	NO	0.874	34.05	34.05	NO	1.014	1.014	97.095	97.1	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.35e6	1.27e6	1.27	NO	1.05	34.15	34.16	NO	1.017	1.017	101.22	101	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.21e6	1.27e6	1.23	NO	0.974	34.46	34.44	NO	1.026	1.025	97.544	97.5	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.71e5	1.27e6	1.05	NO	0.747	38.02	37.95	NO	1.132	1.130	102.07	102	NO
24	24 13C-OCDD	1.82e6	1.27e6	0.89	NO	0.707	40.90	40.97	NO	1.218	1.220	202.25	101	NO
25	25 13C-2,3,7,8-TCDF	2.22e6	2.07e6	0.78	NO	1.07	24.87	24.78	NO	0.993	0.989	100.76	101	NO
26	26 13C-1,2,3,7,8-PeCDF	1.77e6	2.07e6	1.55	NO	1.00	29.20	29.40	NO	1.166	1.174	85.300	85.3	NO
27	27 13C-2,3,4,7,8-PeCDF	1.75e6	2.07e6	1.59	NO	0.962	30.16	30.38	NO	1.204	1.213	88.244	88.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.28e6	1.27e6	0.51	NO	1.05	33.18	33.19	NO	0.988	0.988	95.972	96.0	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.38e6	1.27e6	0.51	NO	1.19	33.28	33.32	NO	0.991	0.992	91.238	91.2	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.44e6	1.27e6	0.51	NO	1.07	33.89	33.88	NO	1.009	1.009	105.94	106	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.20e6	1.27e6	0.52	NO	0.922	34.79	34.78	NO	1.036	1.035	102.49	102	NO

Dataset: U:\VG12.PRO\Results\200209R1\200209R1-1.qld

Last Altered: Monday, February 10, 2020 09:34:37 Pacific Standard Time

Printed: Monday, February 10, 2020 09:35:11 Pacific Standard Time

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	1.09e6	1.27e6	0.45	NO	0.767	36.54	36.51	NO	1.088	1.087	112.10	112	NO
33	13C-1,2,3,4,7,8,9-HpCDF	7.86e5	1.27e6	0.44	NO	0.552	38.55	38.56	NO	1.148	1.148	111.84	112	NO
34	13C-OCDF	2.12e6	1.27e6	0.88	NO	0.789	41.14	41.15	NO	1.225	1.225	210.71	105	NO
35	37Cl-2,3,7,8-TCDD	1.58e5	1.36e6			1.18	25.72	25.70	NO	1.027	1.026	9.8732	98.7	NO
36	13C-1,2,3,4-TCDD	1.36e6	1.36e6	0.79	NO	1.00	25.08	25.05	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	2.07e6	2.07e6	0.79	NO	1.00	23.42	23.34	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.27e6	1.27e6	0.52	NO	1.00	33.52	33.58	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	Total Tetra-Dioxins		1.61e6			0.988	24.62		NO	0.000		84.488		NO
40	Total Penta-Dioxins		1.22e6			0.972	29.96		NO	0.000		201.96		NO
41	Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		236.53		NO
42	Total Hepta-Dioxins		9.71e5			0.923	37.64		NO	0.000		131.52		NO
43	Total Tetra-Furans		2.22e6			0.802	23.61		NO	0.000		50.599		NO
44	1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		90.747		NO
45	Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		175.40		NO
46	Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		311.51		NO
47	Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		111.66		NO

Dataset: U:\VG12.PRO\Results\200209R1\200209R1-CPSM.qld

Last Altered: Monday, February 10, 2020 09:16:09 Pacific Standard Time

Printed: Monday, February 10, 2020 09:17:14 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.68
2	1,2,8,9-TCDD (Last)	26.68
3	1,2,4,7,9-PeCDD (First)	28.49
4	1,2,3,8,9-PeCDD (Last)	31.09
5	1,2,4,6,7,9-HxCDD (First)	32.59
6	1,2,3,7,8,9-HxCDD (Last)	34.45
7	1,2,3,4,6,7,9-HpCDD (First)	36.92
8	1,2,3,4,6,7,8-HpCDD (Last)	37.96
9	1,3,6,8-TCDF (First)	19.63
10	1,2,8,9-TCDF (Last)	26.81
11	1,3,4,6,8-PeCDF (First)	26.80
12	1,2,3,8,9-PeCDF (Last)	31.32
13	1,2,3,4,6,8-HxCDF (First)	32.04
14	1,2,3,7,8,9-HxCDF (Last)	34.79
15	1,2,3,4,6,7,8-HpCDF (First)	36.52
16	1,2,3,4,7,8,9-HpCDF (Last)	38.57

Dataset: Untitled

Last Altered: Monday, February 10, 2020 09:41:17 Pacific Standard Time

Printed: Monday, February 10, 2020 09:41:33 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200209R1_1	ST200209R1_1 1613 CS3 19L2305	09-Feb-20	12:06:17
2	200209R1_2	B0B0017-BS1 OPR 10	09-Feb-20	12:55:24
3	200209R1_3	B0A0228-BS1 OPR 10	09-Feb-20	13:41:39
4	200209R1_4	SOLVENT BLANK	09-Feb-20	14:28:55
5	200209R1_5	B0B0017-BLK1 Method Blank 10	09-Feb-20	15:16:07
6	200209R1_6	B0A0228-BLK1 Method Blank 10	09-Feb-20	16:03:19
7	200209R1_7	1904159-13RE1 PDI-023SC-A-04-05-191009 ...	09-Feb-20	16:50:33
8	200209R1_8	1903826-07 PDI-083SC-B-04-06-191022 16.87	09-Feb-20	17:37:43
9	200209R1_9	1903826-09 PDI-099SC-B-00-02-191022 16.73	09-Feb-20	18:24:56
10	200209R1_10	1903826-10 PDI-099SC-B-02-04-191022 18.07	09-Feb-20	19:12:06
11	200209R1_11	1903826-11 PDI-099SC-B-04-06-191022 18.19	09-Feb-20	19:59:17
12	200209R1_12	1903826-12 PDI-099SC-B-06-08-191022 17.63	09-Feb-20	20:46:28
13	200209R1_13	1903738-01 PDI-059SC-B-00-02-191016 18.8	09-Feb-20	21:33:39
14	200209R1_14	1903826-05 PDI-083SC-B-00-02-191022 18.22	09-Feb-20	22:20:50
15	200209R1_15	1903826-05@5X PDI-083SC-B-00-02-191022 ...	09-Feb-20	23:08:03

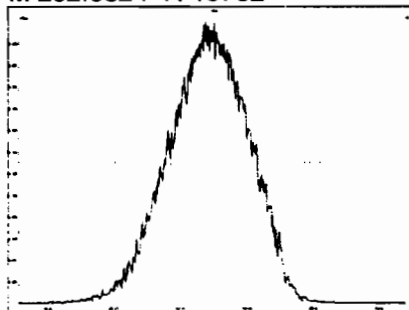
Experiment Calibration Report

MassLynx 4.1 SCN815

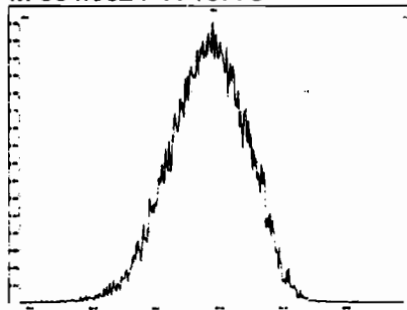
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Sunday, February 09, 2020 12:02:41 Pacific Standard Time

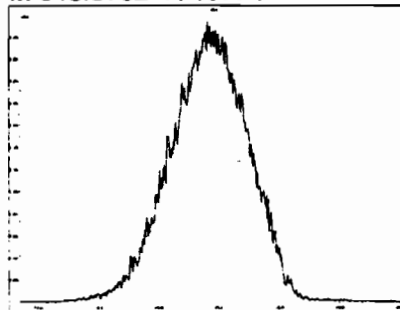
M 292.9824 R 10732



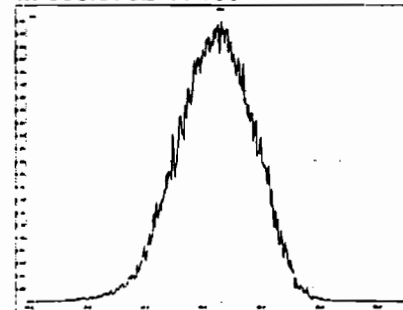
M 304.9824 R 10776



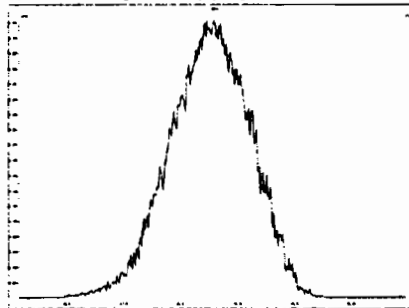
M 318.9792 R 10774



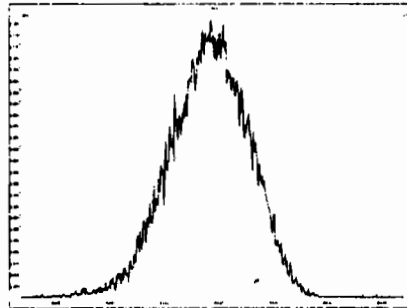
M 330.9792 R 10961



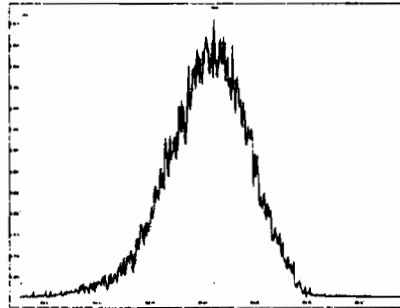
M 342.9792 R 10464



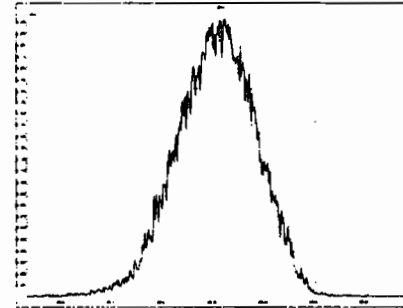
M 354.9792 R 10640



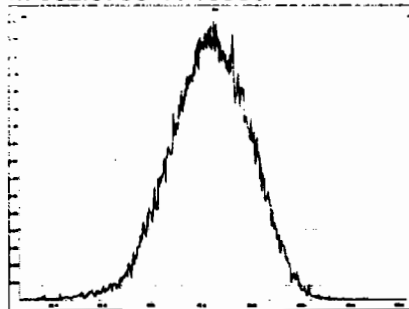
M 366.9792 R 10246



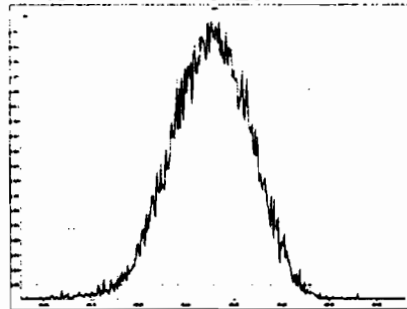
M 380.9760 R 10547



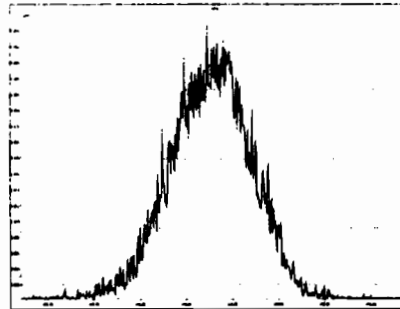
M 392.9760 R 10635



M 404.9760 R 10729



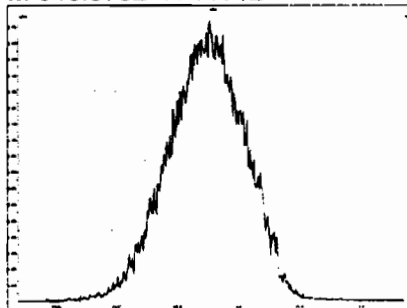
M 416.9760 R 10868



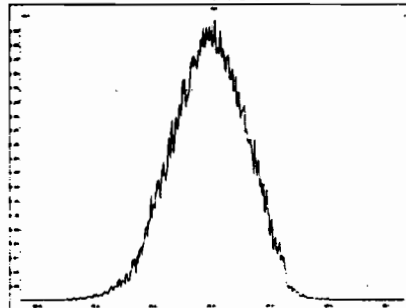
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Sunday, February 09, 2020 12:03:20 Pacific Standard Time

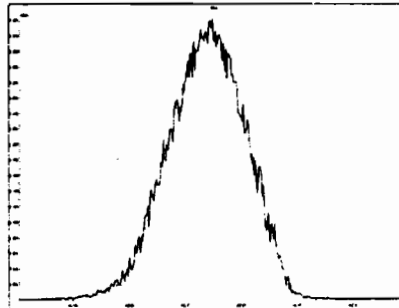
M 318.9792 R 11012



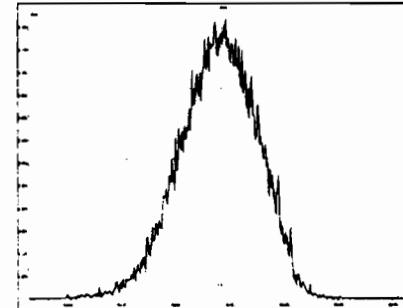
M 330.9792 R 11258



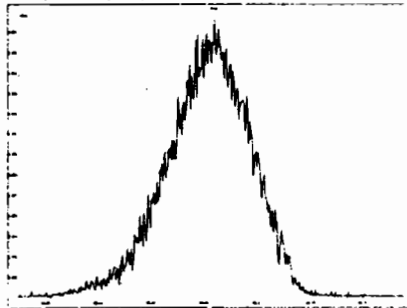
M 342.9792 R 10683



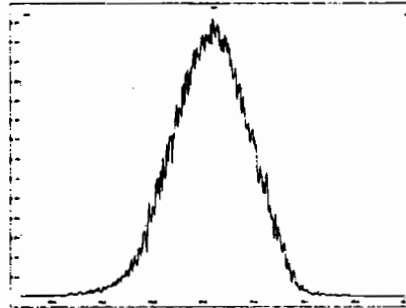
M 354.9792 R 10968



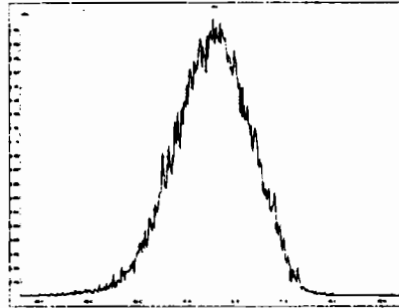
M 366.9792 R 10081



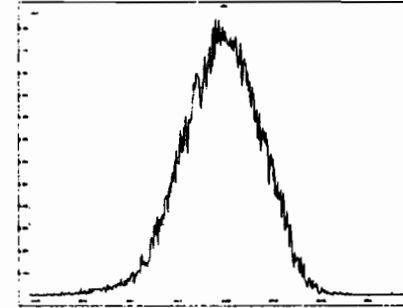
M 380.9760 R 10729



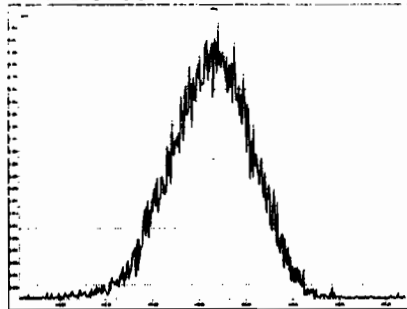
M 392.9760 R 10458



M 404.9760 R 11211



M 416.9760 R 10079



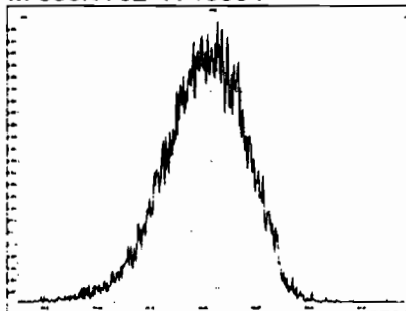
Experiment Calibration Report

MassLynx 4.1 SCN815

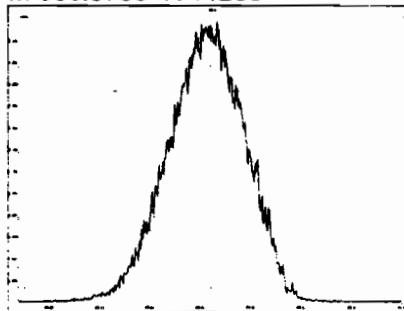
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Sunday, February 09, 2020 12:04:02 Pacific Standard Time

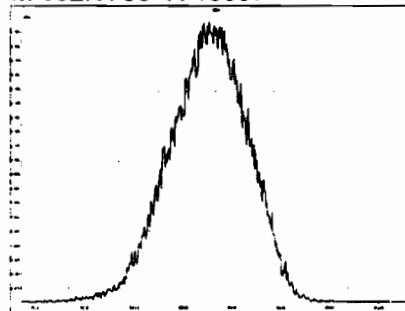
M 366.9792 R 10684



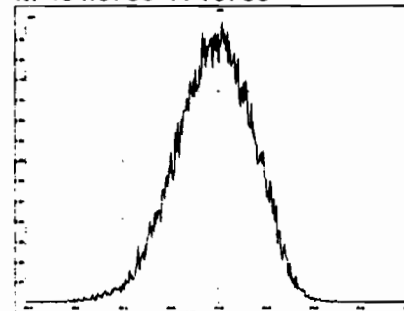
M 380.9760 R 11260



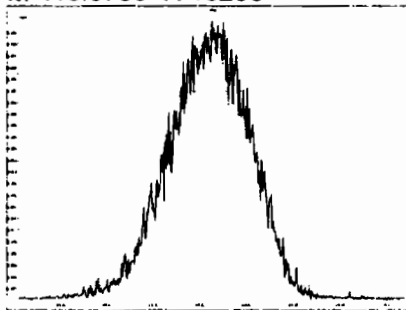
M 392.9760 R 10867



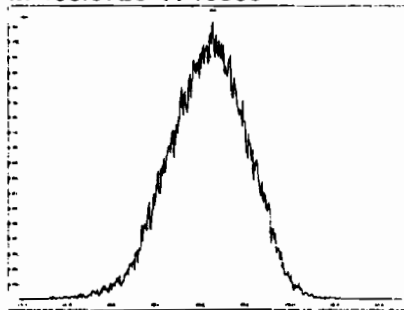
M 404.9760 R 10730



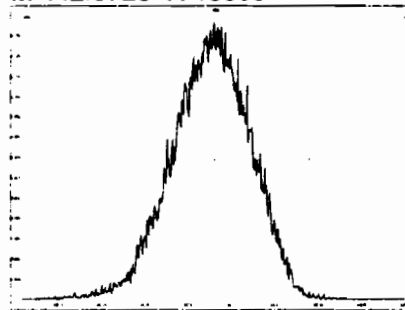
M 416.9760 R 10290



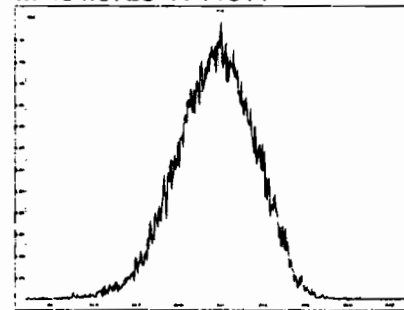
M 430.9728 R 10639



M 442.9728 R 10638



M 454.9728 R 11011



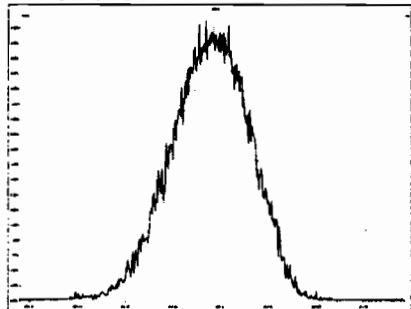
Experiment Calibration Report

MassLynx 4.1 SCN815

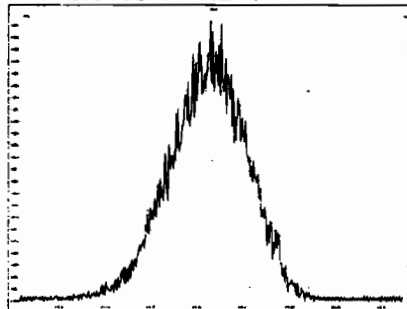
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Sunday, February 09, 2020 12:04:49 Pacific Standard Time

M 404.9760 R 10870



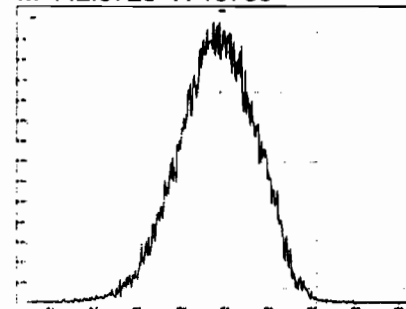
M 416.9760 R 11265



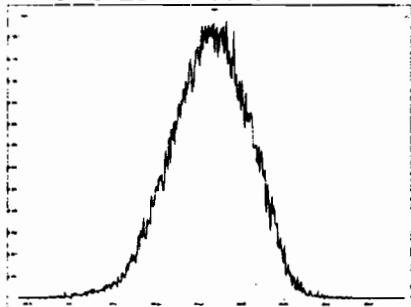
M 430.9728 R 11011



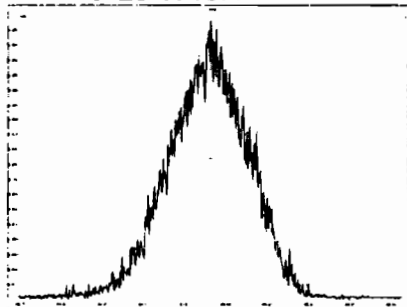
M 442.9728 R 10730



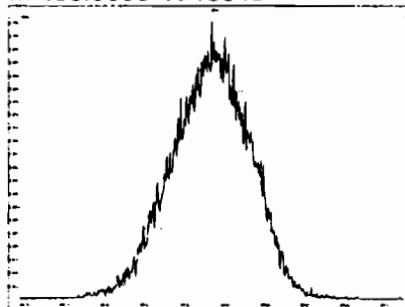
M 454.9728 R 11110



M 466.9728 R 10777



M 480.9696 R 10548



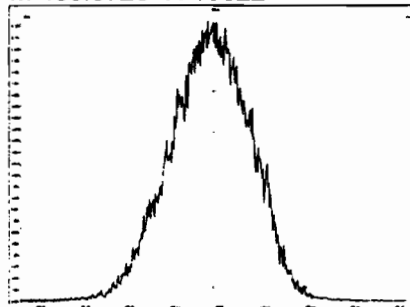
Experiment Calibration Report

MassLynx 4.1 SCN815

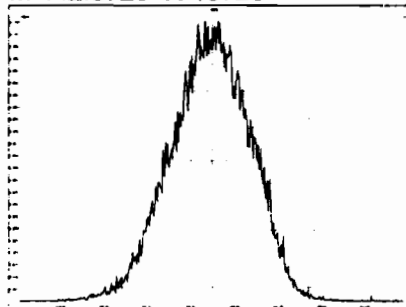
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Sunday, February 09, 2020 12:05:51 Pacific Standard Time

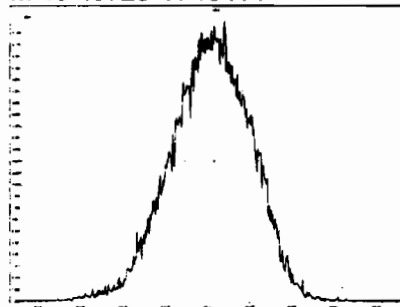
M 430.9728 R 10822



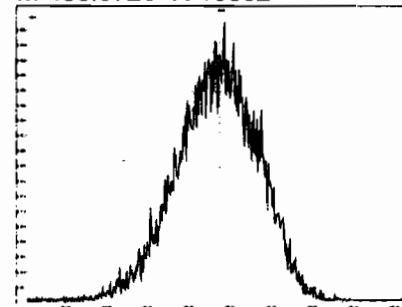
M 442.9728 R 10728



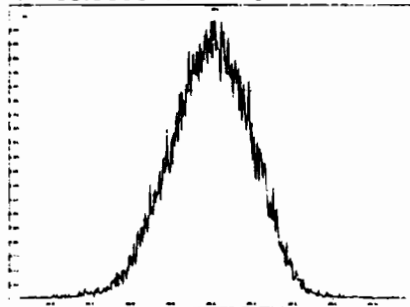
M 454.9728 R 10414



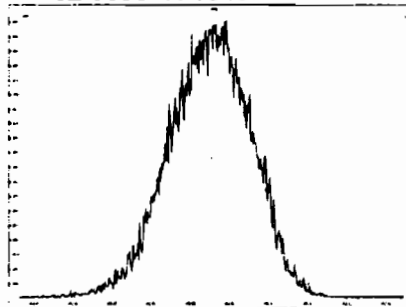
M 466.9728 R 10592



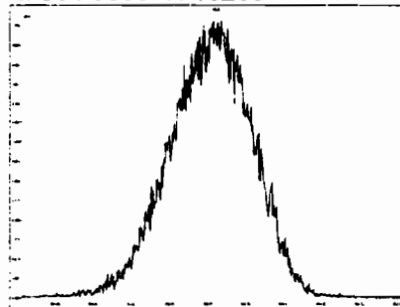
M 480.9696 R 10640



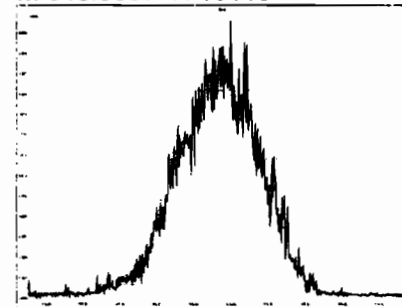
M 492.9696 R 10460



M 504.9696 R 10203



M 516.9697 R 10119



Dataset: U:\VG12.PRO\Results\200209R1\200209R1-CPSM.qld

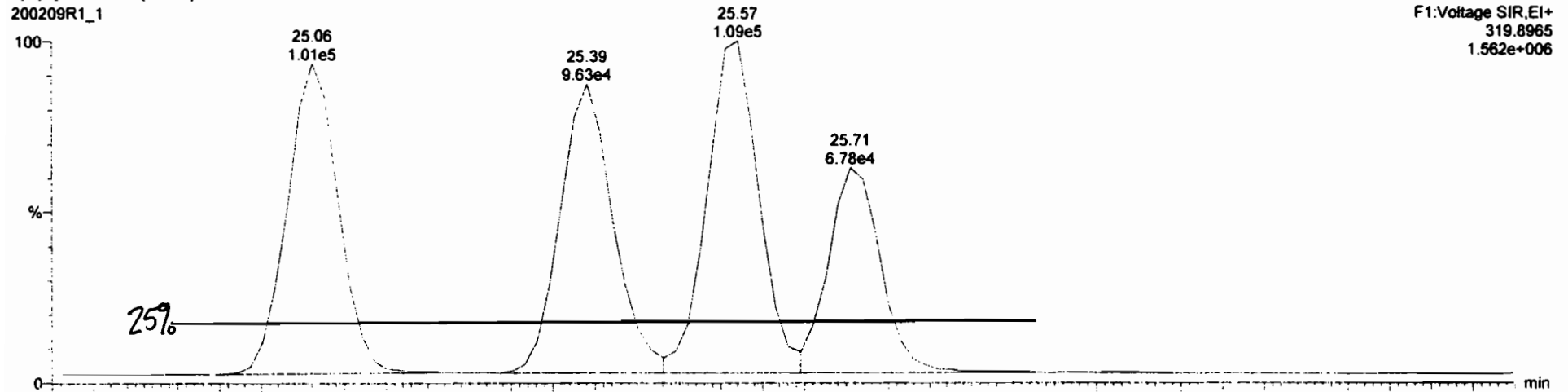
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Printed: Monday, February 10, 2020 09:17:14 Pacific Standard Time

GRB 02/10/2020

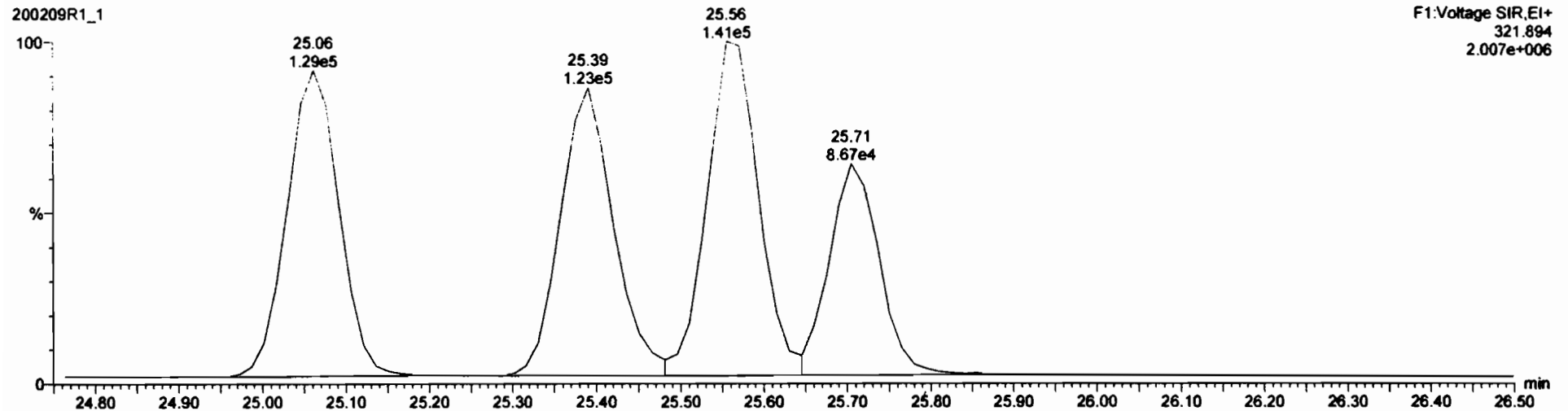
Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26
Calibration: U:\VG12.PRO\CurveDB\cb5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)
200209R1_1



200209R1_1



Dataset: Untitled

Last Altered: Monday, February 10, 2020 08:17:40 Pacific Standard Time

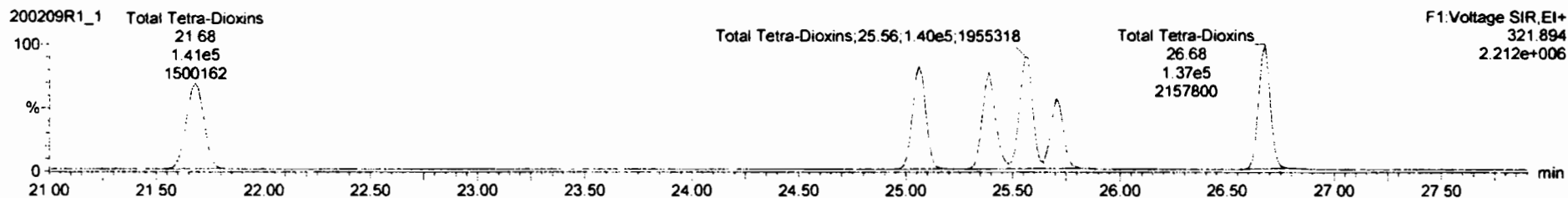
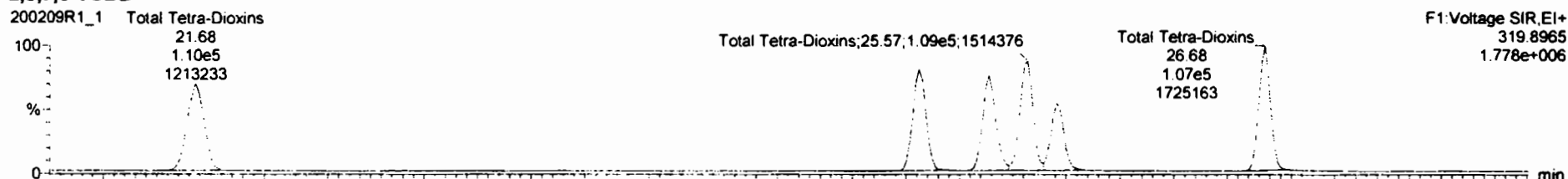
Printed: Monday, February 10, 2020 08:17:56 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

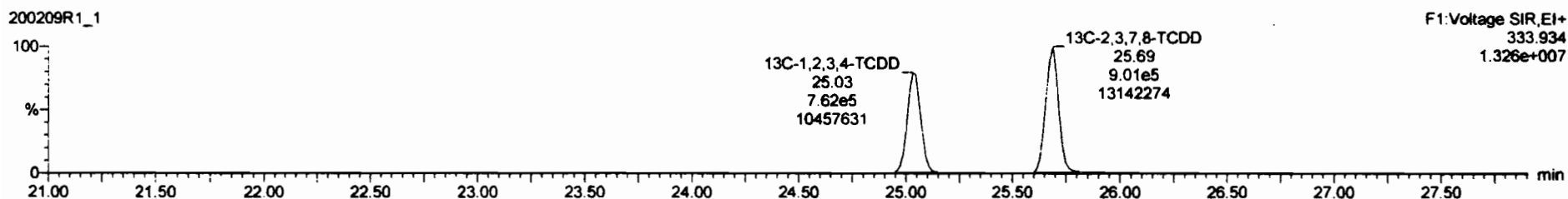
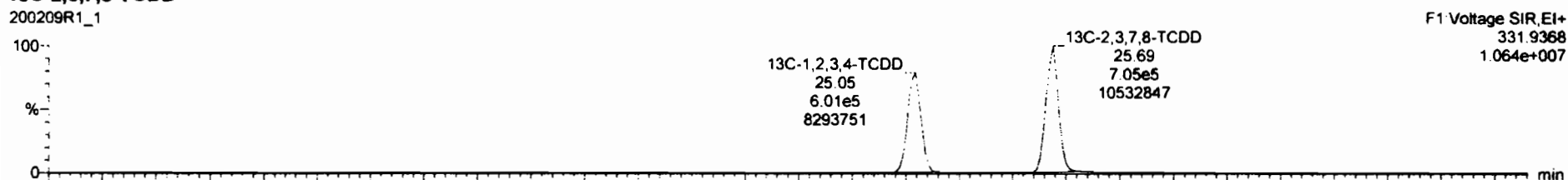
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



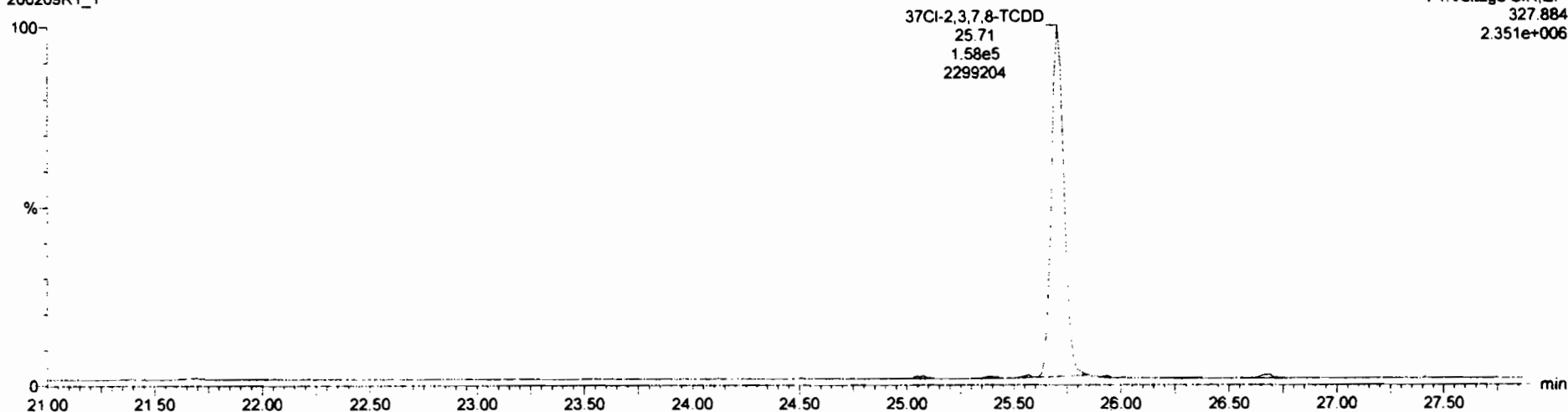
Dataset: Untitled

Last Altered: Monday, February 10, 2020 08:17:40 Pacific Standard Time
Printed: Monday, February 10, 2020 08:17:56 Pacific Standard Time

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

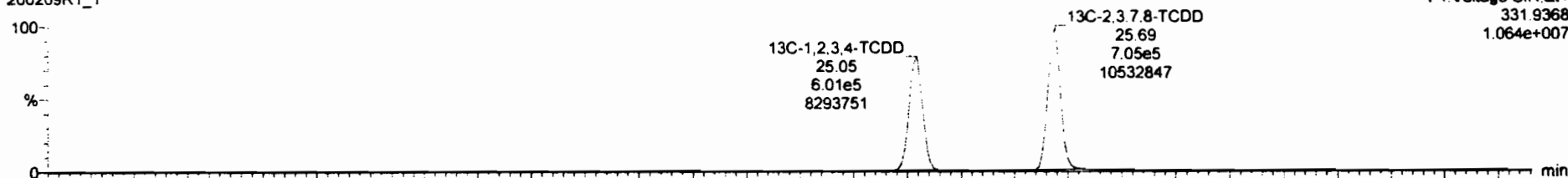
37Cl-2,3,7,8-TCDD

200209R1_1

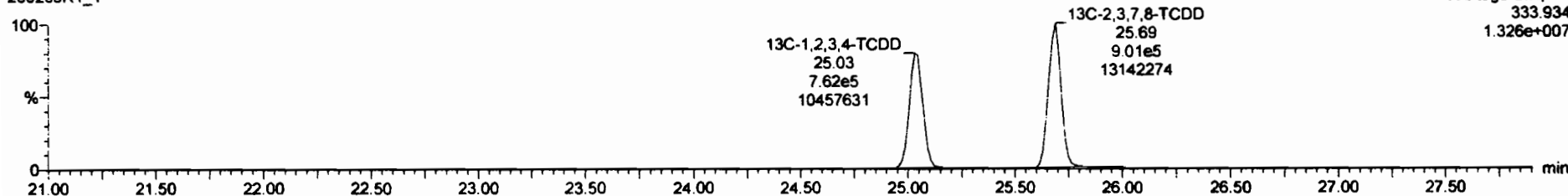


13C-1,2,3,4-TCDD

200209R1_1



200209R1_1



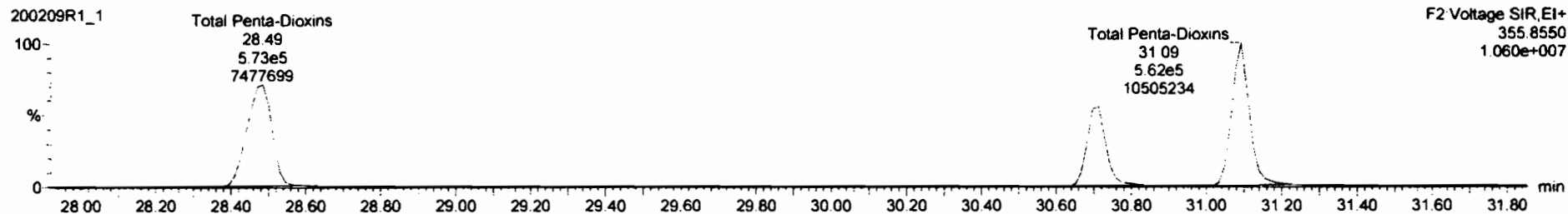
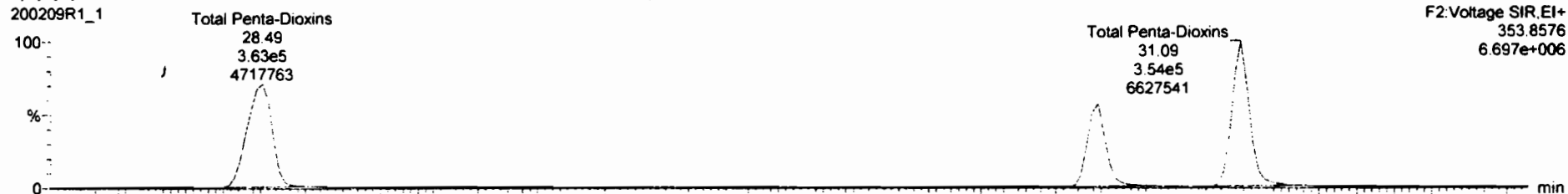
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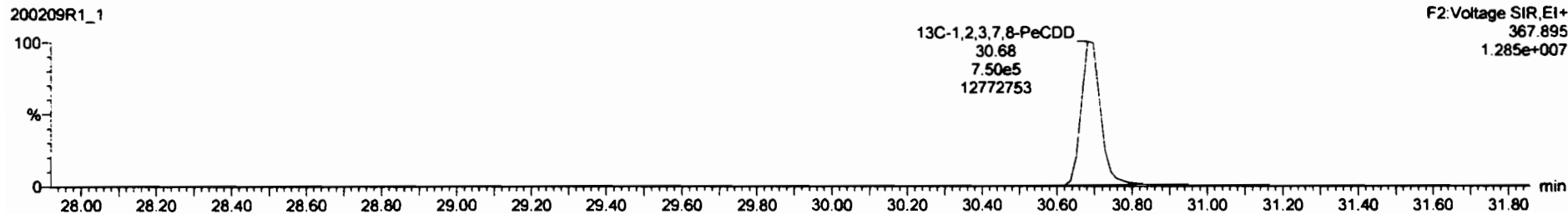
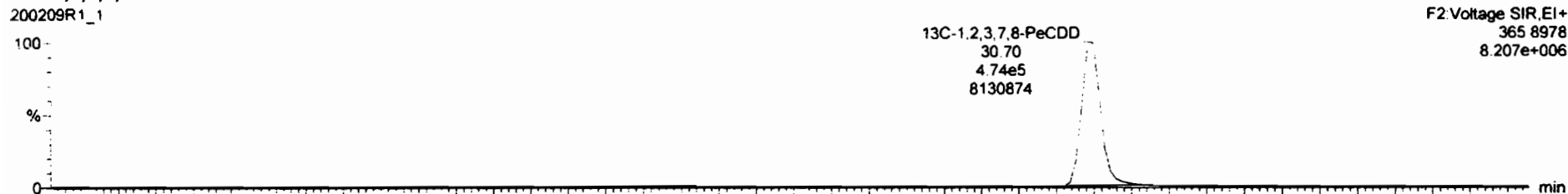
Printed: Monday, February 10, 2020 08:17:56 Pacific Standard Time

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD



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



Dataset: Untitled

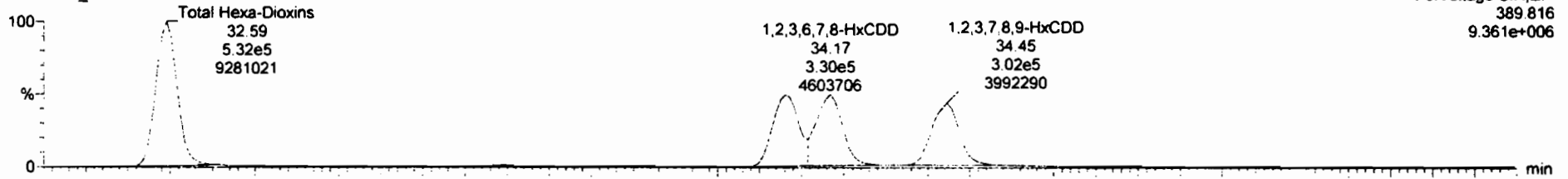
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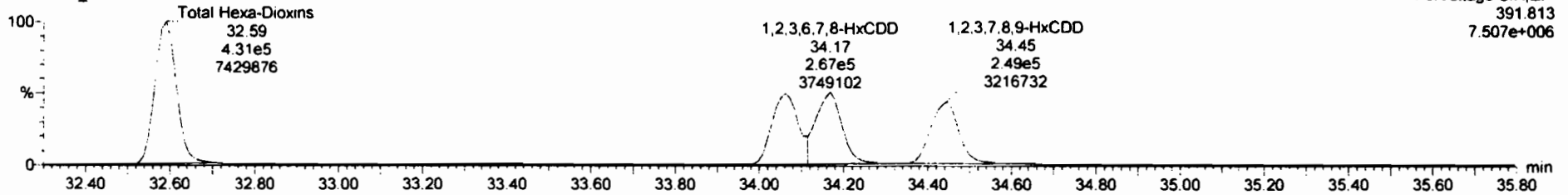
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1,2,3,4,7,8-HxCDD

200209R1_1

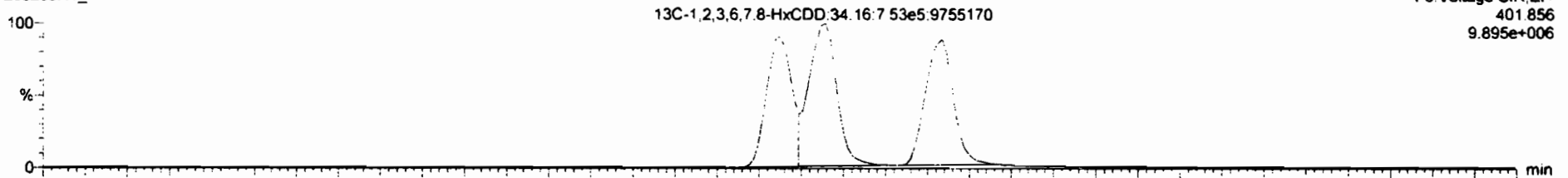


200209R1_1

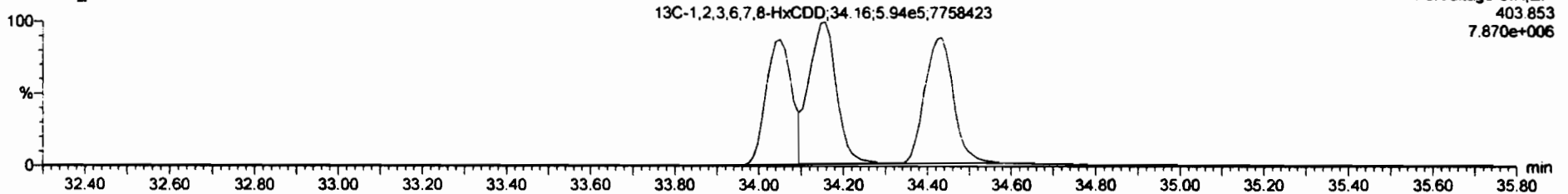


13C-1,2,3,4,7,8-HxCDD

200209R1_1



200209R1_1



Dataset: Untitled

Last Altered: Monday, February 10, 2020 08:17:40 Pacific Standard Time

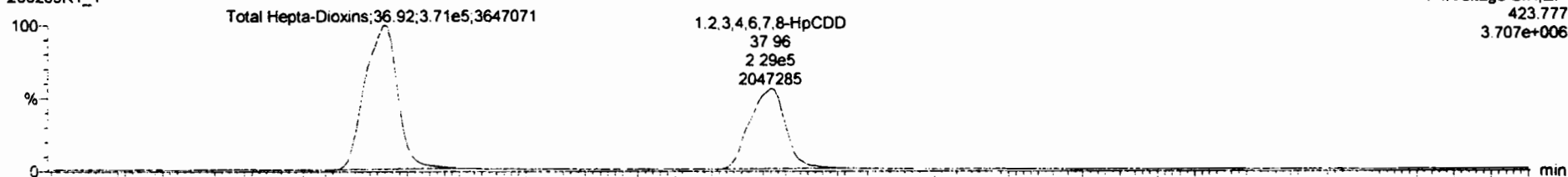
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Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

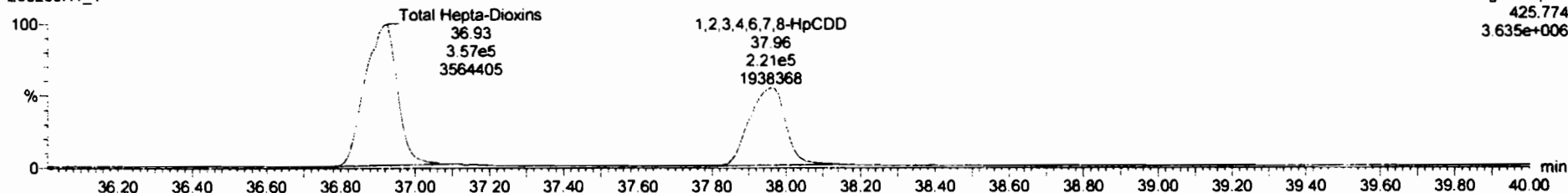
200209R1_1

F4:Voltage SIR,EI+
423.777
3.707e+006



200209R1_1

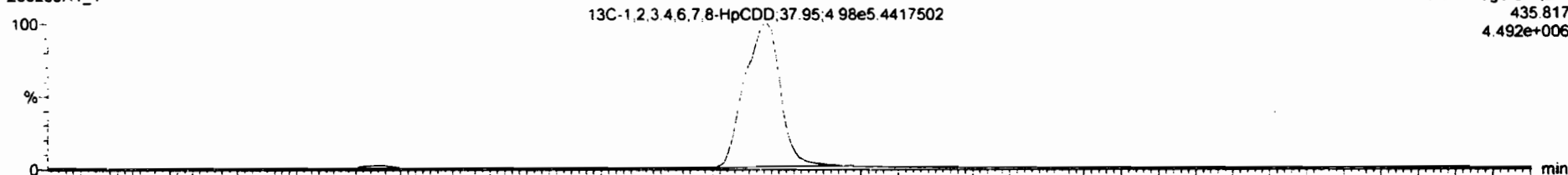
F4:Voltage SIR,EI+
425.774
3.635e+006



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

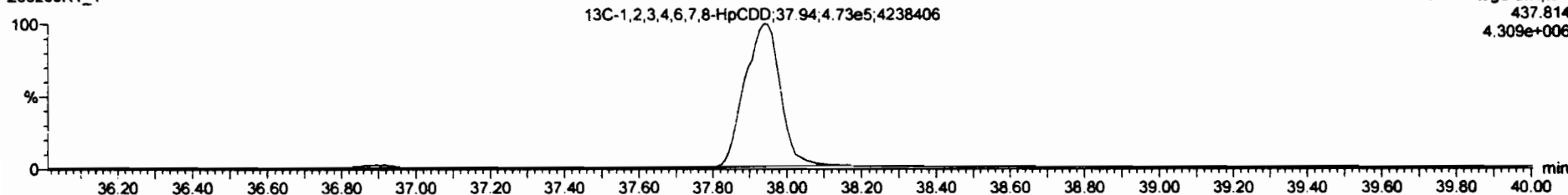
200209R1_1

F4:Voltage SIR,EI+
435.817
4.492e+006



200209R1_1

F4:Voltage SIR,EI+
437.814
4.309e+006



Dataset: Untitled

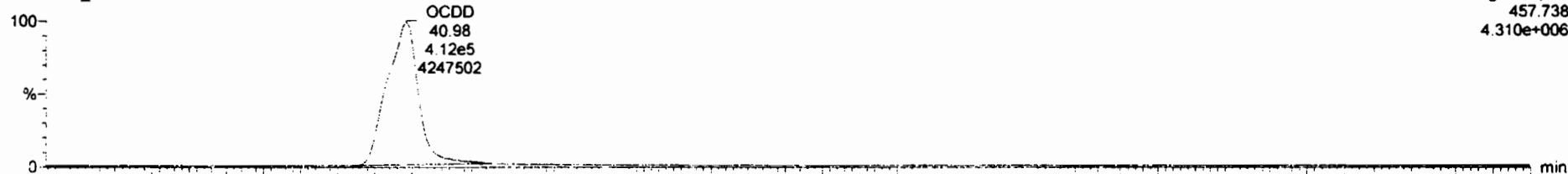
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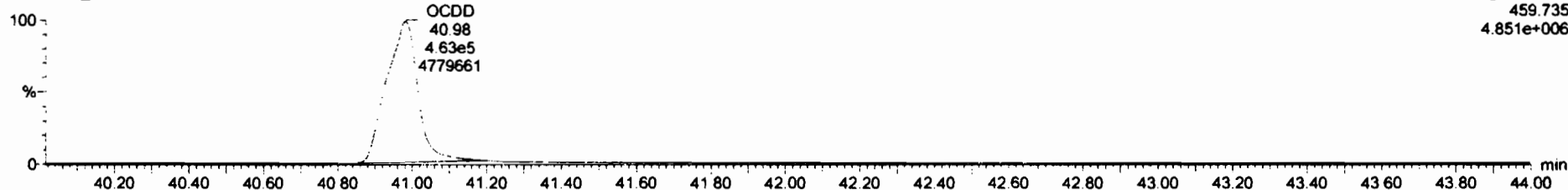
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OCDD

200209R1_1



200209R1_1

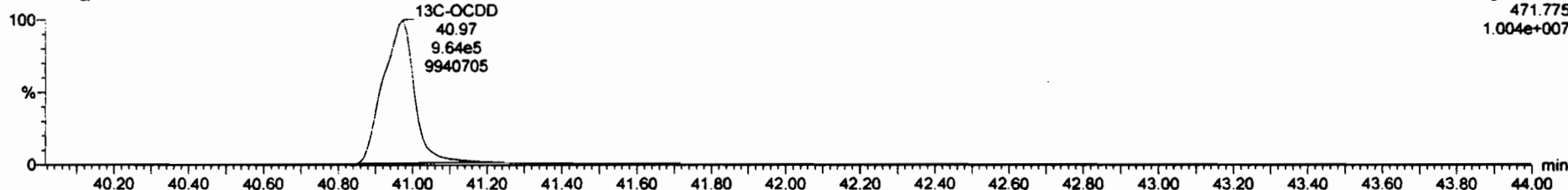


13C-OCDD

200209R1_1



200209R1_1

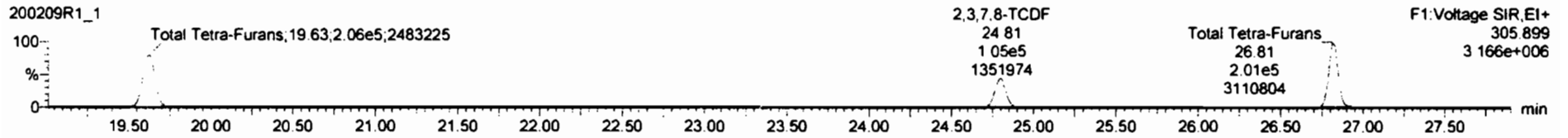
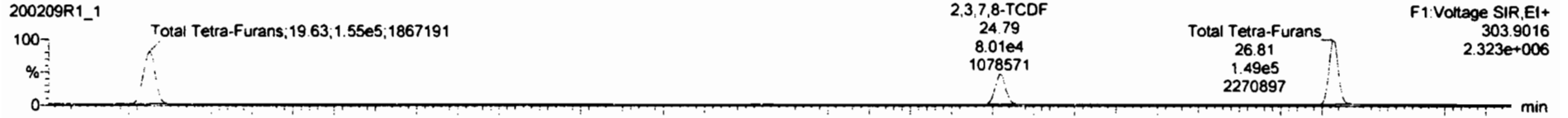


Dataset: Untitled

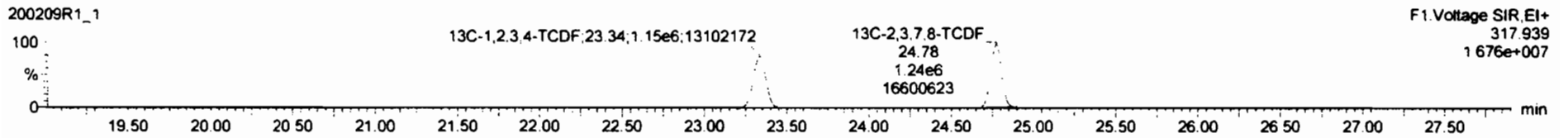
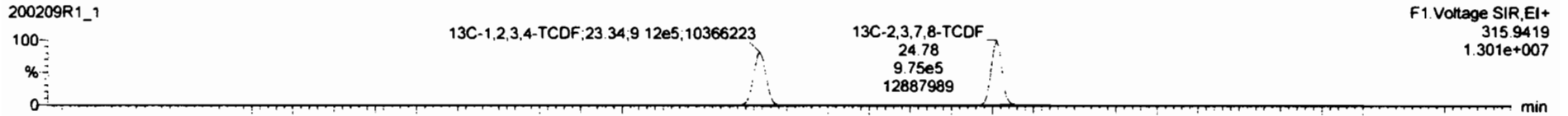
Last Altered: Monday, February 10, 2020 08:17:40 Pacific Standard Time
Printed: Monday, February 10, 2020 08:17:56 Pacific Standard Time

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

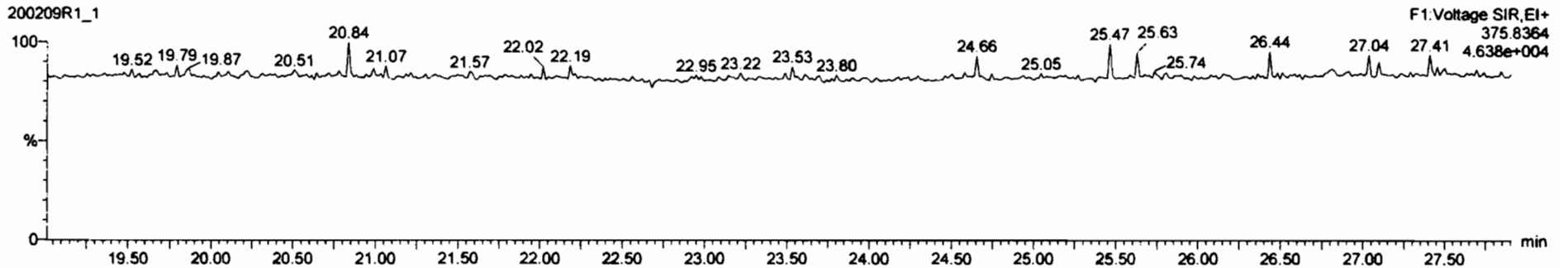
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

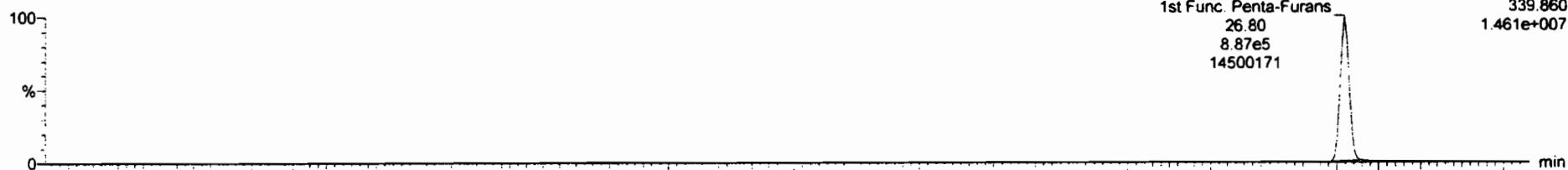
Last Altered: Monday, February 10, 2020 08:17:40 Pacific Standard Time

Printed: Monday, February 10, 2020 08:17:56 Pacific Standard Time

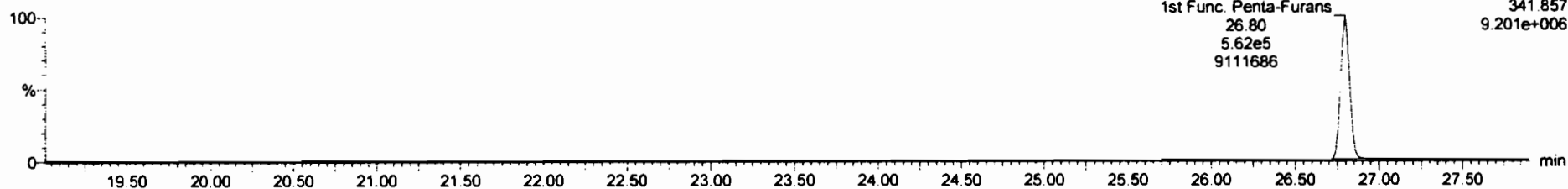
Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200209R1_1

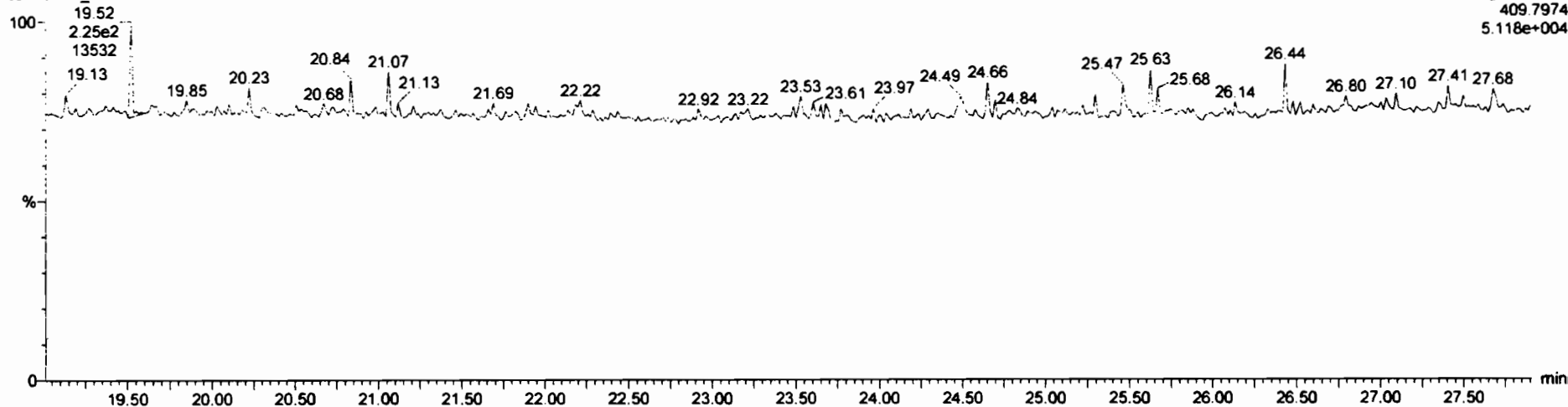


200209R1_1



DPE6

200209R1_1



Dataset: Untitled

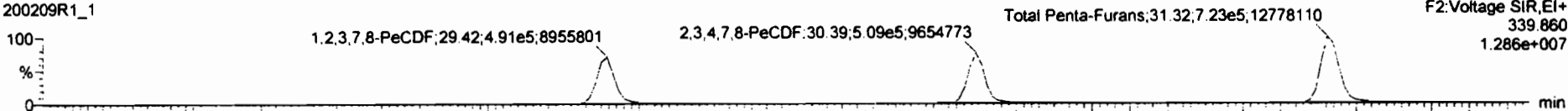
Last Altered: Monday, February 10, 2020 08:17:40 Pacific Standard Time

Printed: Monday, February 10, 2020 08:17:56 Pacific Standard Time

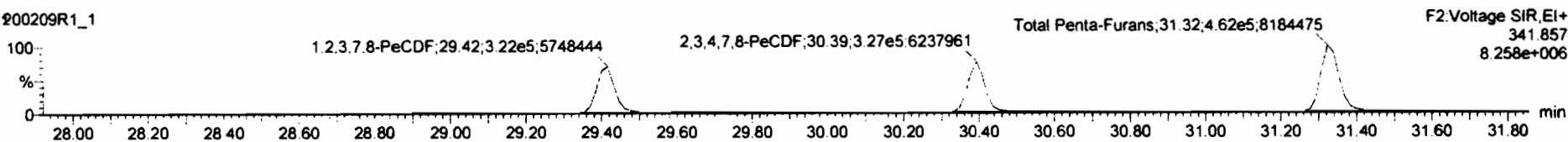
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1,2,3,7,8-PeCDF

200209R1_1

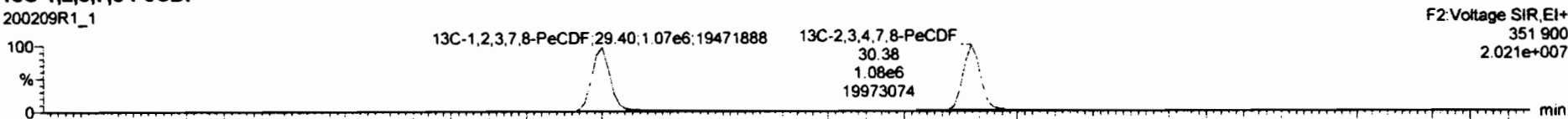


200209R1_1

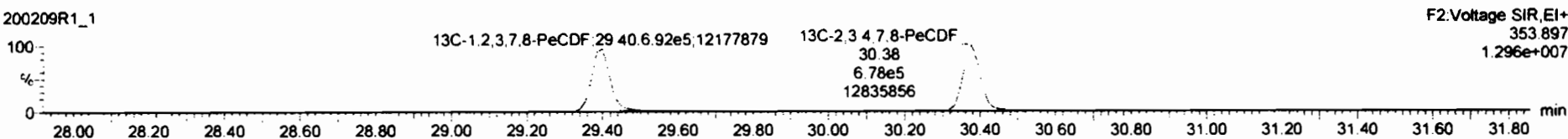


13C-1,2,3,7,8-PeCDF

200209R1_1

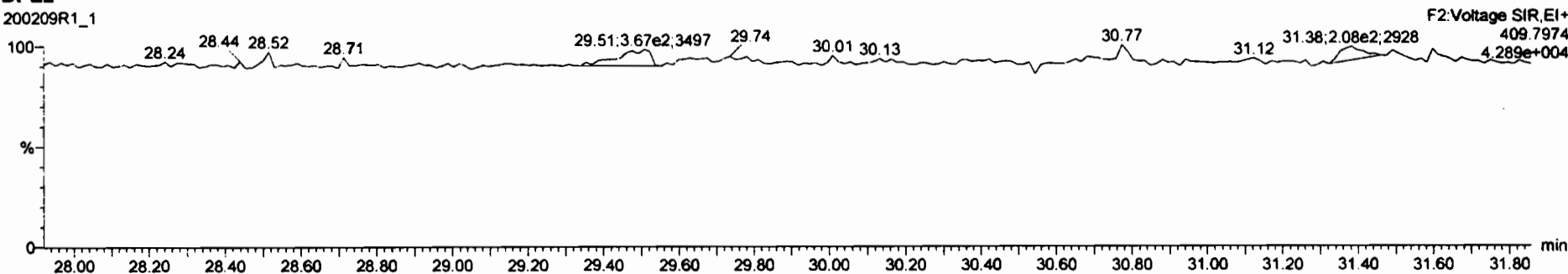


200209R1_1

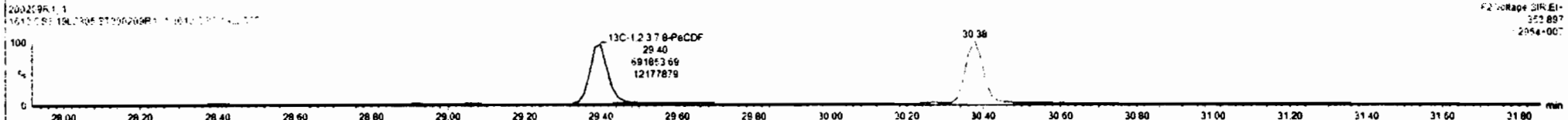
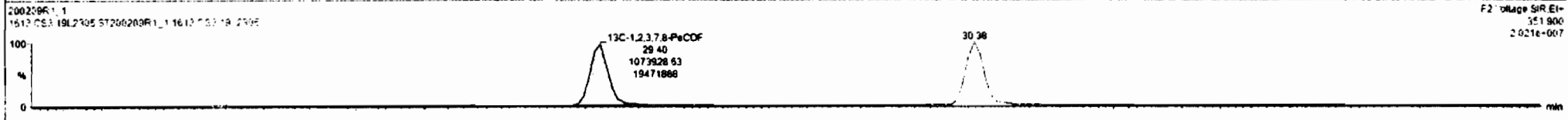
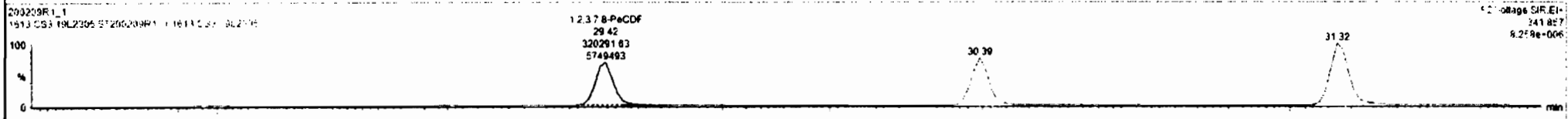
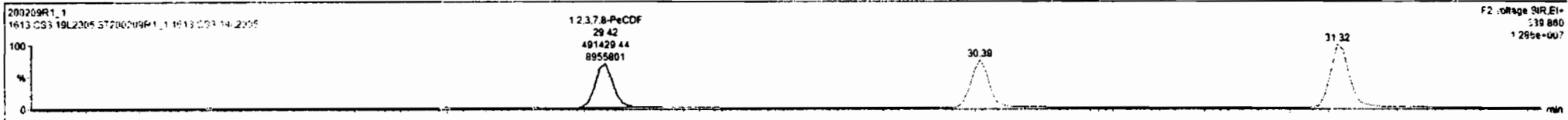


DPE2

200209R1_1



#	Name	Resp	IS Resp	Pres/A	IS	adj	WF	Pres/DT	RT	RT Prop	Pres/DT	WF	Comp	Area	SPB-est
1	2,3,7,8-TCDD	1.51e5	1.61e6	0.77	0.79	NO	0.0081	25.72	25.70	NO	1.001	1.001	9.49	94.9	NO
2	1,2,3,4,7,8-PeCDD	5.51e5	1.22e6	0.63	0.84	NO	0.0723	30.72	30.71	NO	1.001	1.000	46.3	92.7	NO
3	1,2,3,4,7,8-HxCDD	5.96e5	1.08e6	1.24	1.24	NO	1.0708	34.06	34.06	NO	1.000	1.000	51.5	103	NO
4	1,2,3,6,7,8-HxCDD	5.97e5	1.35e6	1.24	1.24	NO	0.8211	34.16	34.17	NO	1.000	1.000	48.1	96.3	NO
5	1,2,3,7,8,9-HxCDD	5.51e5	1.21e6	1.24	1.22	NO	0.9182	34.47	34.44	NO	1.001	1.000	49.6	99.1	NO
6	1,2,3,4,6,7,8-HpCDD	4.50e5	9.71e5	1.04	1.04	NO	0.9231	37.66	37.66	NO	1.000	1.000	50.2	100	NO
7	OCDD	8.75e5	1.82e6	0.88	0.89	NO	0.8746	40.97	40.99	NO	1.000	1.000	86.7	96.7	NO
8	2,3,7,8-TCDF	1.85e5	2.22e6	0.77	0.77	NO	0.8620	24.80	24.78	NO	1.001	1.001	18.4	104	NO
9	2,3,4,7,8-PeCDF	8.37e5	1.75e6	1.55	1.55	NO	0.8518	30.41	30.36	NO	1.001	1.000	56.1	100	NO
10	1,2,3,4,7,8-HxCDF	6.08e5	1.28e6	1.24	1.20	NO	0.8623	33.18	33.20	NO	1.000	1.000	56.1	110	NO
11	1,2,3,6,7,8-HxCDF	6.81e5	1.38e6	1.24	1.22	NO	0.8414	33.33	33.33	NO	1.000	1.000	56.9	114	NO
12	2,3,4,6,7,8-HxCDF	7.33e5	1.44e6	1.24	1.22	NO	0.8982	33.91	33.88	NO	1.001	1.000	56.7	113	NO
13	1,2,3,7,8,9-HxCDF	5.68e5	1.20e6	1.24	1.20	NO	0.8578	34.78	34.79	NO	1.000	1.000	56.1	110	NO
14	1,2,3,4,6,7,8-HpCDF	5.06e5	1.09e6	1.04	1.00	NO	0.8511	36.55	36.52	NO	1.001	1.000	54.3	100	NO
15	1,2,3,4,7,8,9-HpCDF	4.47e5	7.96e5	1.04	1.00	NO	0.9799	38.58	38.57	NO	1.000	1.000	57.3	115	NO
16	OCDF	9.38e5	2.12e6	0.88	0.88	NO	0.8955	41.15	41.17	NO	1.000	1.000	110	110	NO



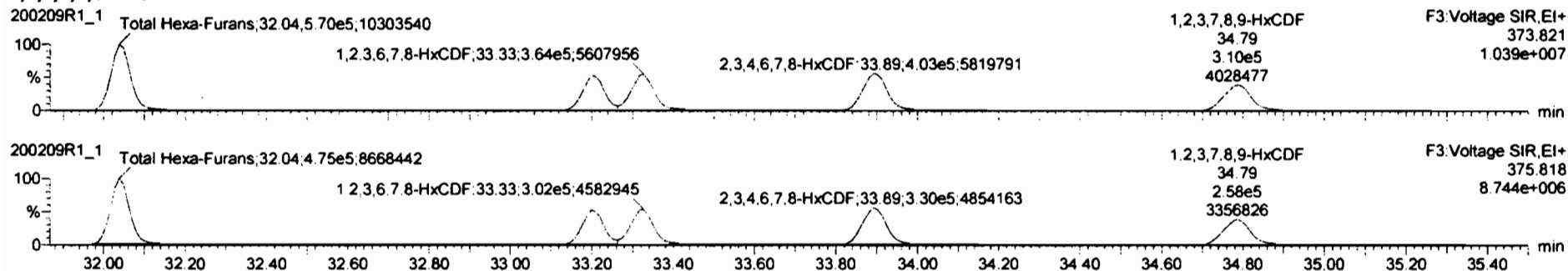
Dataset: Untitled

Last Altered: Monday, February 10, 2020 08:17:40 Pacific Standard Time

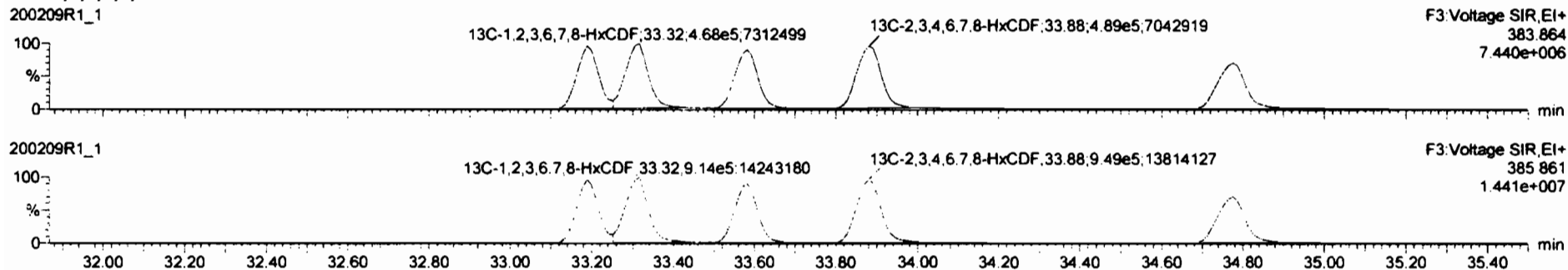
Printed: Monday, February 10, 2020 08:17:56 Pacific Standard Time

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

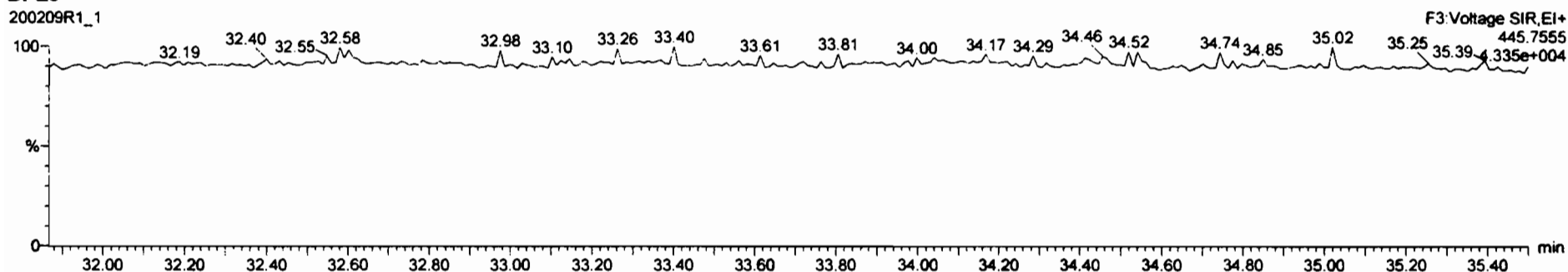
1,2,3,4,7,8-HxCDF



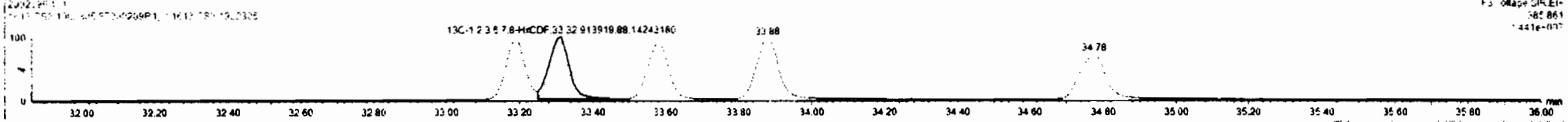
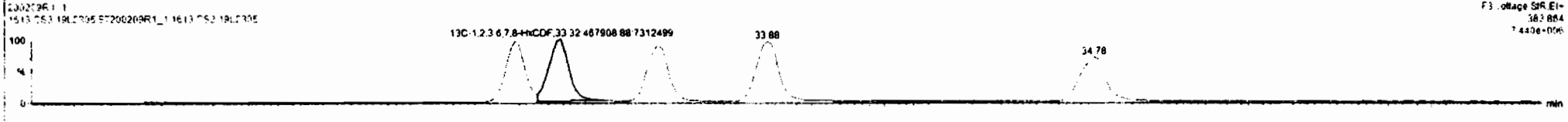
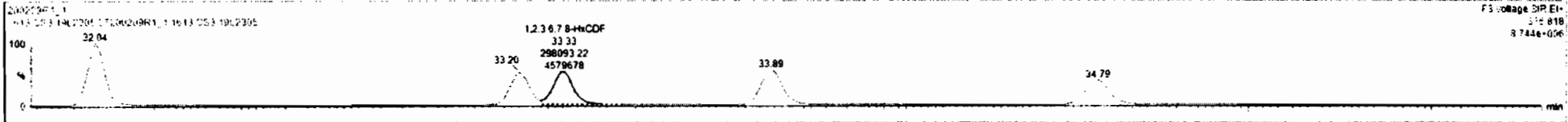
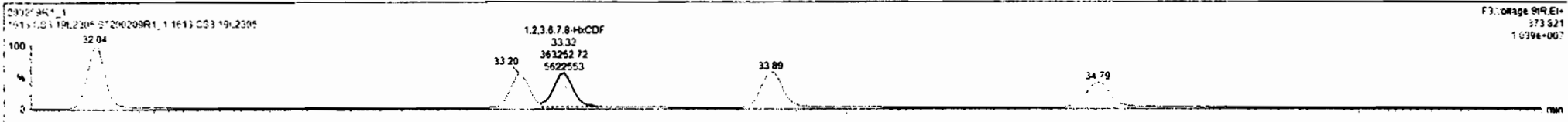
13C-1,2,3,4,7,8-HxCDF



DPE3



#	#	Name	Stng	AS Rang	Post RA	RA	Qty	RF	PostRF	RF	RT Flag	PostRF	RF	Comp	100ac	STD out
1	1	2,3,7,8-TCDD	1.51e5	1.61e5	0.77	0.79	NO	0.0881	25.72	25.70	NO	1.001	1.001	9.46	94.9	NO
2	2	1,2,3,7,8-PeCDD	5.51e5	1.22e5	0.83	0.84	NO	0.9723	30.72	30.71	NO	1.001	1.000	48.3	92.7	NO
3	3	1,2,3,4,7,8-HxCDD	5.98e5	1.08e5	1.24	1.24	NO	1.0708	34.08	34.08	NO	1.000	1.000	51.5	103	NO
4	4	1,2,3,6,7,8-HxCDD	5.97e5	1.35e5	1.24	1.24	NO	0.9211	34.16	34.17	NO	1.000	1.000	48.1	98.3	NO
5	5	1,2,3,7,8,9-HxCDD	5.51e5	1.21e5	1.24	1.22	NO	0.9182	34.47	34.44	NO	1.001	1.000	49.6	99.1	NO
6	6	1,2,3,4,6,7,8-HpCDD	4.50e5	9.71e5	1.04	1.04	NO	0.9231	37.98	37.98	NO	1.000	1.000	50.2	100	NO
7	7	OCDD	8.75e5	1.82e5	0.89	0.89	NO	0.9748	40.97	40.99	NO	1.000	1.000	98.7	98.7	NO
8	8	2,3,7,8-TCDF	1.85e5	2.22e5	0.77	0.77	NO	0.0820	24.80	24.79	NO	1.001	1.001	10.4	104	NO
9	9	1,2,3,7,8-PeCDF	8.12e5	1.77e5	1.55	1.53	NO	0.9874	29.42	29.42	NO	1.001	1.001	58.7	101	NO
10	10	1,2,3,4,7,8-HxCDF	8.37e5	1.75e5	1.55	1.56	NO	0.9516	30.41	30.38	NO	1.001	1.000	50.1	100	NO
11	11	1,2,3,4,7,8,9-HxCDF	8.08e5	1.28e5	1.24	1.20	NO	0.8623	33.19	33.20	NO	1.000	1.000	55.1	110	NO
12	12	OCDF	9.36e5	2.12e5	0.89	0.88	NO	0.8955	41.15	41.17	NO	1.000	1.000	110	110	NO
13	13	2,3,4,6,7,8-HxCDF	7.23e5	1.44e5	1.24	1.22	NO	0.8982	33.91	33.88	NO	1.001	1.000	58.7	113	NO
14	14	1,2,3,7,8,9-HxCDF	5.09e5	1.20e5	1.24	1.20	NO	0.8578	34.78	34.78	NO	1.000	1.000	55.1	110	NO
15	15	1,2,3,4,6,7,8-HpCDF	5.06e5	1.09e5	1.04	1.00	NO	0.8511	38.55	38.52	NO	1.001	1.000	54.3	109	NO
16	16	1,2,3,4,7,8,9-HxCDF	4.47e5	7.96e5	1.04	1.00	NO	0.9799	38.58	38.57	NO	1.000	1.000	57.3	115	NO
17	17	OCDF	9.36e5	2.12e5	0.89	0.88	NO	0.8955	41.15	41.17	NO	1.000	1.000	110	110	NO

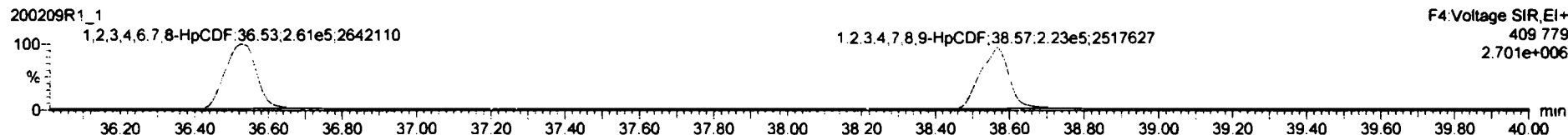
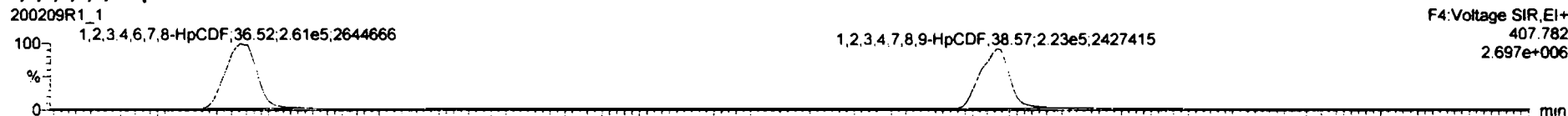


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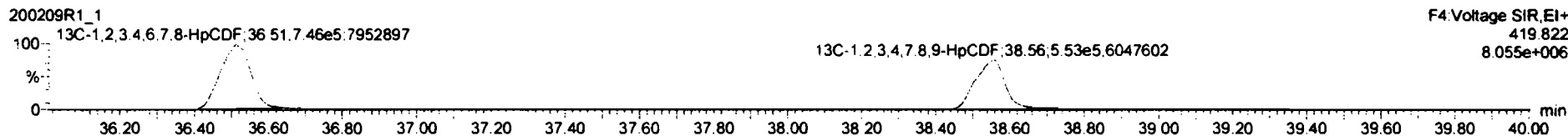
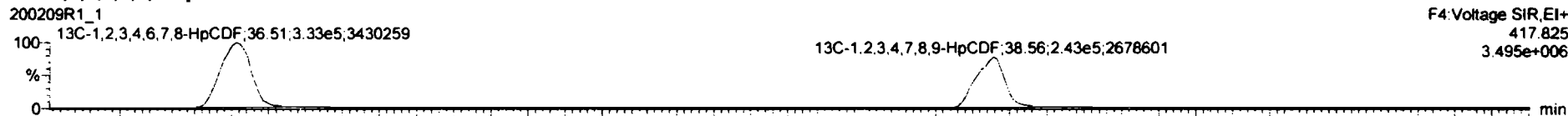
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Printed: Monday, February 10, 2020 08:17:56 Pacific Standard Time

Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

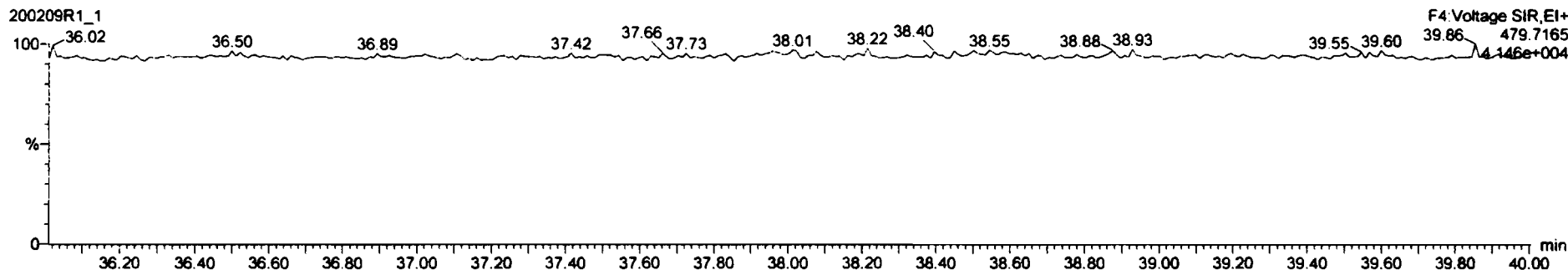
1,2,3,4,6,7,8-HpCDF



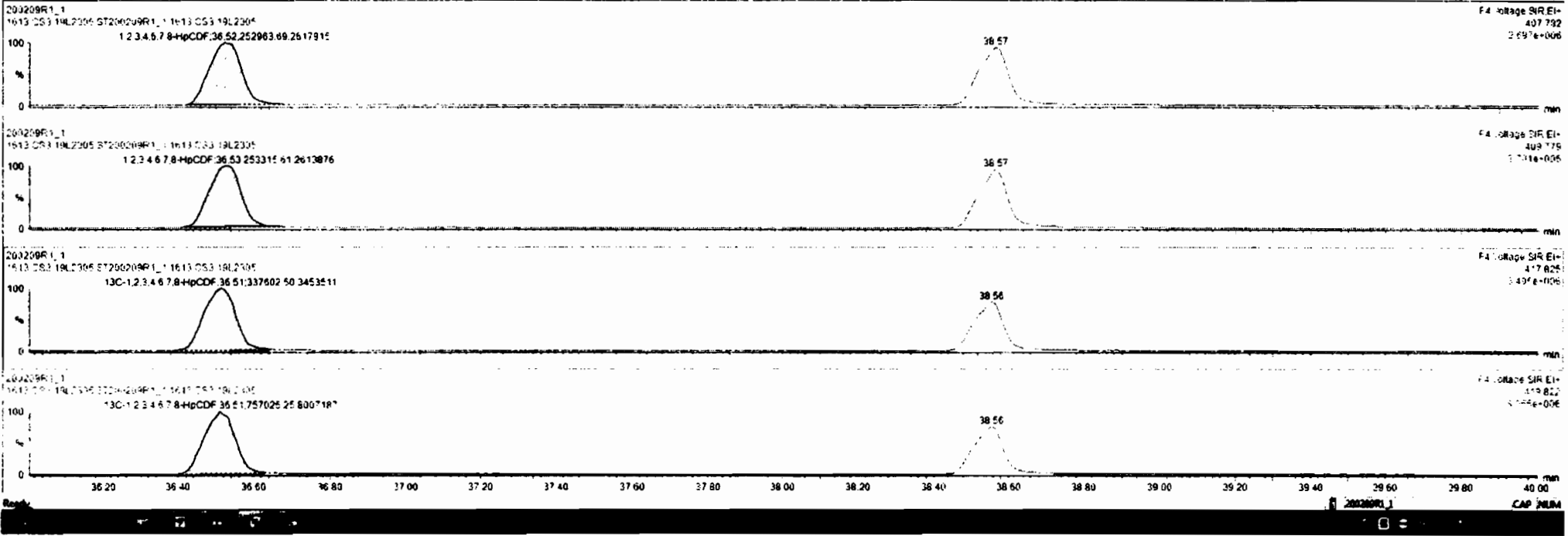
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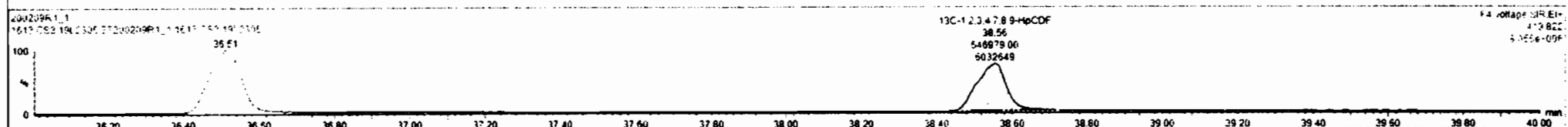
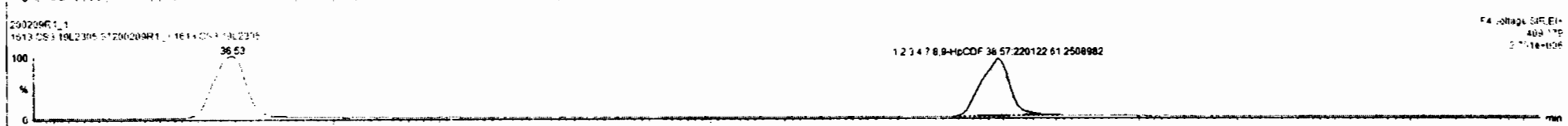
DPE4



#	Name	Resp	Q-Resp	Prod RA	RA	Qty	RF	Prod/RF	RF	RF Flag	Prod/RF	RF	Comp	ISRec	STD out
1	2,3,7,8-TCDD	1.51e5	1.61e5	0.77	0.79	NO	0.9881	25.72	25.70	NO	1.001	1.001	9.48	94.9	NO
2	1,2,3,4,8-PeCDD	5.51e5	1.22e5	0.83	0.64	NO	0.9723	36.72	30.71	NO	1.001	1.000	46.3	82.7	NO
3	1,2,3,4,7,8-HxCDD	5.98e5	1.86e5	1.24	1.24	NO	1.0708	34.08	34.08	NO	1.000	1.000	51.5	103	NO
4	1,2,3,6,7,8-HxCDD	5.97e5	1.35e5	1.24	1.24	NO	0.9211	34.16	34.17	NO	1.000	1.000	48.1	96.3	NO
5	1,2,3,7,8-HxCDD	5.51e5	1.21e5	1.24	1.22	NO	0.9182	34.47	34.44	NO	1.001	1.000	49.6	99.1	NO
6	1,2,3,4,6,7,8-HpCDD	4.50e5	9.71e5	1.04	1.04	NO	0.9211	37.88	37.96	NO	1.000	1.000	50.2	100	NO
7	OCDD	8.75e5	1.82e5	0.89	0.89	NO	0.9748	40.97	40.99	NO	1.000	1.000	98.7	98.7	NO
8	2,3,7,8-TCDF	1.85e5	2.22e5	0.77	0.77	NO	0.9820	24.80	24.79	NO	1.001	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	8.12e5	1.77e5	1.55	1.53	NO	0.9074	29.42	29.42	NO	1.001	1.001	50.7	101	NO
10	2,3,4,7,8-PeCDF	8.37e5	1.75e5	1.55	1.56	NO	0.9518	30.41	30.38	NO	1.001	1.000	50.1	100	NO
11	1,2,3,4,7,8-HxCDF	6.09e5	1.20e5	1.24	1.20	NO	0.8823	33.19	33.20	NO	1.000	1.000	55.1	110	NO
12	1,2,3,6,7,8-HxCDF	6.81e5	1.38e5	1.24	1.22	NO	0.8414	33.33	33.33	NO	1.000	1.000	56.9	114	NO
13	2,3,4,6,7,8-HxCDF	7.33e5	1.44e5	1.24	1.22	NO	0.8982	33.91	33.89	NO	1.001	1.000	58.7	113	NO
14	1,2,3,7,8-HpCDF	5.08e5	1.20e5	1.24	1.20	NO	0.9578	34.78	34.79	NO	1.000	1.000	55.1	110	NO
15	1,2,3,4,7,8-PeCDF	4.47e5	7.99e5	1.04	1.00	NO	0.9799	38.58	38.57	NO	1.000	1.000	57.3	115	NO
16	1,2,3,4,7,8-HpCDF	9.38e5	2.12e5	0.89	0.88	NO	0.8955	41.15	41.17	NO	1.000	1.000	110	110	NO



#	RT	Comp	IS Comp	Peak No.	RA	dy	RF	Preced	RT	RT Flag	Preced	RT	Comp	Std	STD-ent	
1	2.3	7.8-TCDD	1.51e5	1.61e5	0.77	0.79	NO	0.9881	25.72	25.78	NO	1.001	1.001	9.49	94.9	NO
2	2.3	7.8-PeCDD	5.51e5	1.22e5	0.83	0.84	NO	0.9723	30.72	30.71	NO	1.001	1.000	46.3	92.7	NO
3	1.2	3.4,7.8-HxCDD	5.98e5	1.08e5	1.24	1.24	NO	1.0788	34.06	34.06	NO	1.000	1.000	51.5	105	NO
4	1.2	3.6,7.8-HxCDD	5.97e5	1.35e5	1.24	1.24	NO	0.8211	34.16	34.17	NO	1.000	1.000	48.1	96.3	NO
5	1.2	3.7,8.9-HxCDD	5.51e5	1.21e5	1.24	1.22	NO	0.9182	34.47	34.44	NO	1.001	1.000	48.6	99.1	NO
6	1.2	3.4,6.7.8-HpCDD	4.50e5	9.71e5	1.04	1.04	NO	0.9231	37.98	37.98	NO	1.000	1.000	50.2	100	NO
7	OCDD		8.75e5	1.82e5	0.89	0.89	NO	0.8748	40.87	40.89	NO	1.000	1.000	98.7	98.7	NO
8	2.3	7.8-TCDF	1.85e5	2.22e5	0.77	0.77	NO	0.9020	24.80	24.79	NO	1.001	1.001	16.4	104	NO
9	1.2	3.7.8-PeCDF	8.12e5	1.77e5	1.55	1.53	NO	0.9074	29.42	29.42	NO	1.001	1.001	50.7	101	NO
10	2.3	4.7.8-PeCDF	8.37e5	1.75e5	1.55	1.56	NO	0.8516	30.41	30.39	NO	1.001	1.000	50.1	100	NO
11	1.2	3.4,7.8-HxCDF	6.08e5	1.28e5	1.24	1.20	NO	0.8623	33.19	33.20	NO	1.000	1.000	56.1	110	NO
12	1.2	3.6,7.8-HxCDF	6.81e5	1.38e5	1.24	1.22	NO	0.8414	33.33	33.33	NO	1.000	1.000	56.9	114	NO
13	2.3	4.8.7.8-HxCDF	7.53e5	1.44e5	1.24	1.22	NO	0.8862	33.91	33.89	NO	1.001	1.000	56.7	113	NO
14	1.2	3.7.8.9-HxCDF	5.89e5	1.20e5	1.24	1.20	NO	0.8578	34.78	34.79	NO	1.000	1.000	55.1	110	NO
15	1.2	3.4.6.7.8-HpCDF	5.06e5	1.09e5	1.04	1.00	NO	0.8511	36.55	36.52	NO	1.001	1.000	54.3	109	NO
17	OCDF		9.38e5	2.12e5	0.89	0.88	NO	0.8055	41.17	41.17	NO	1.000	1.000	110	110	NO

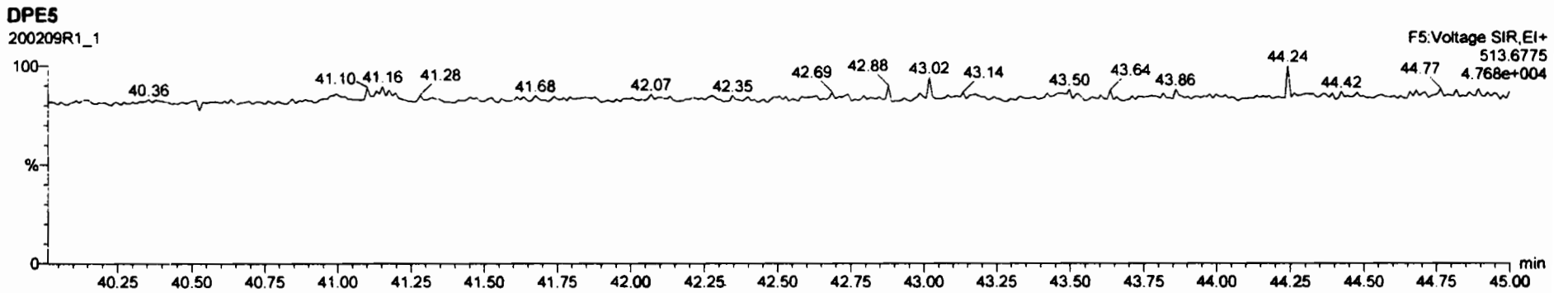
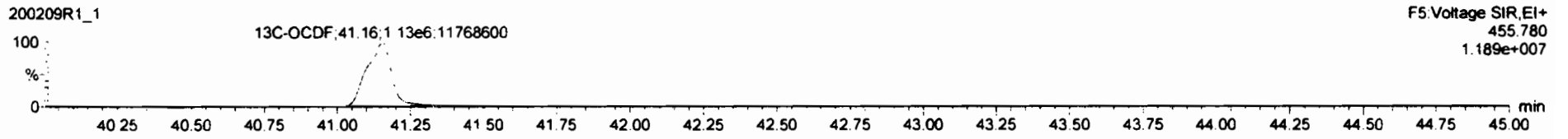
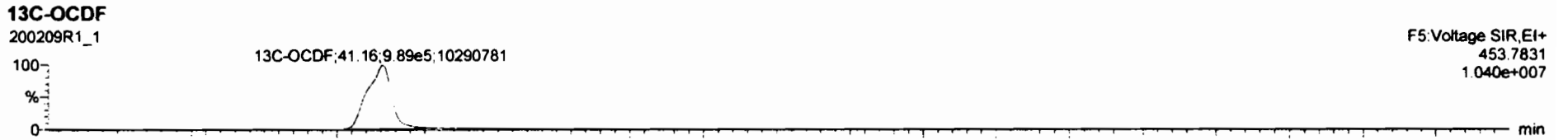
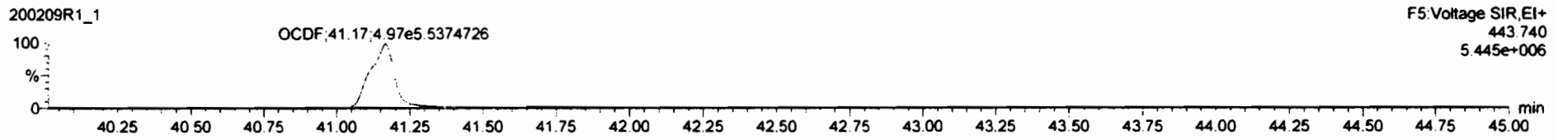
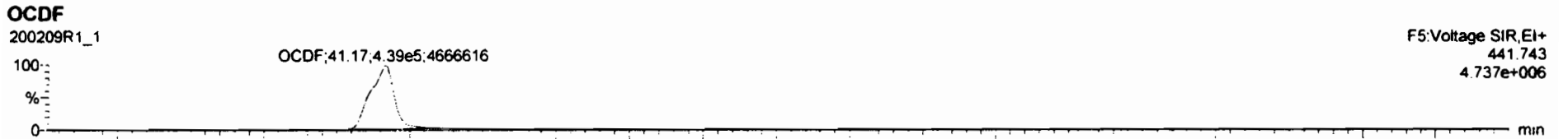


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Last Altered: Monday, February 10, 2020 08:17:40 Pacific Standard Time

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Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

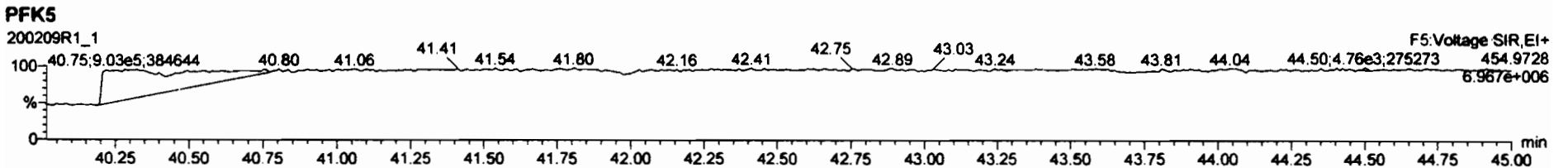
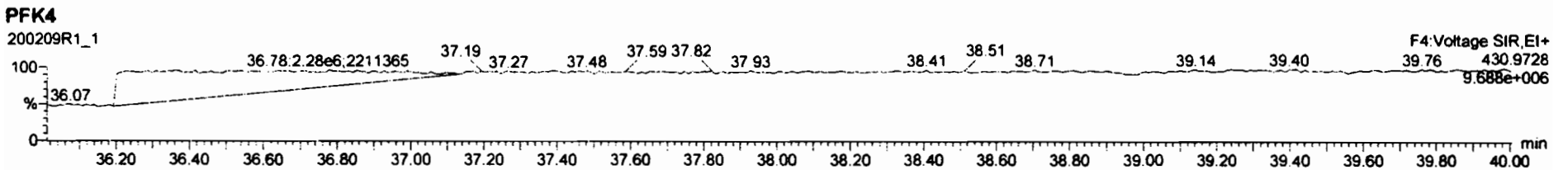
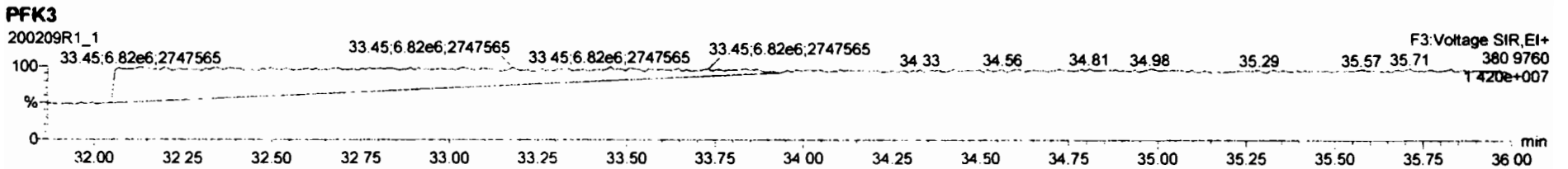
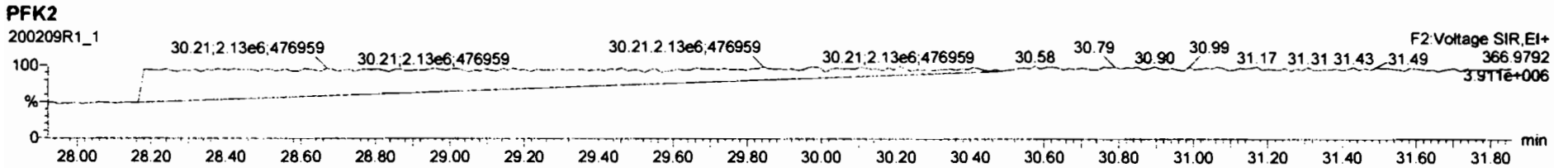
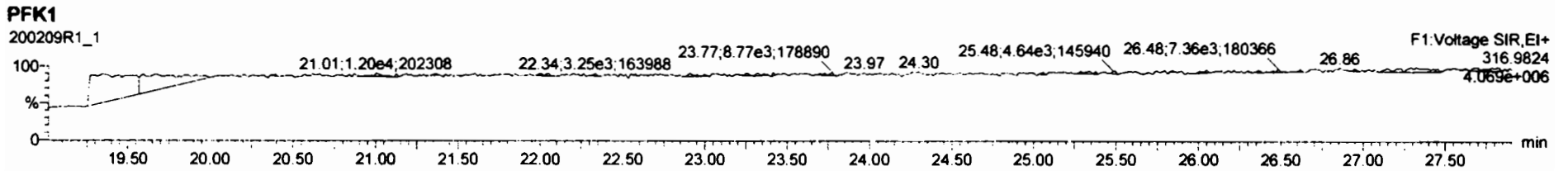


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Name: 200209R1_1, Date: 09-Feb-2020, Time: 12:06:17, ID: ST200209R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



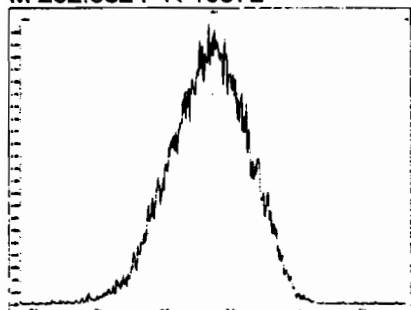
Resolution Check Report

MassLynx 4.1 SCN815

(A) PFK DRAIN

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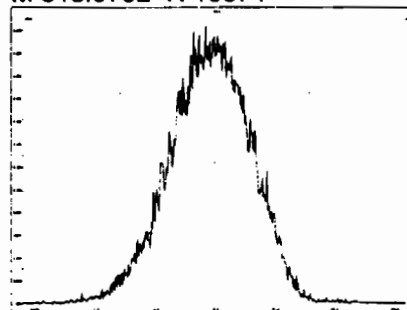
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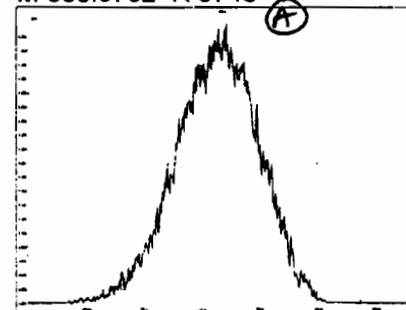
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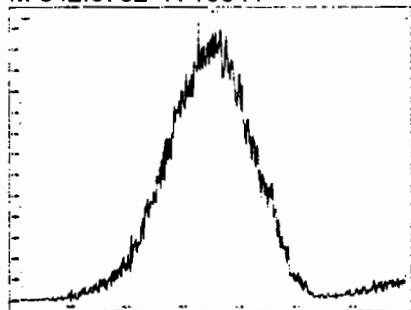
M 318.9792 R 10374



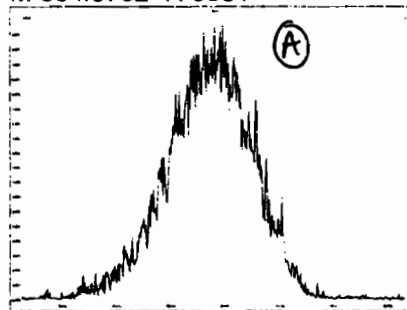
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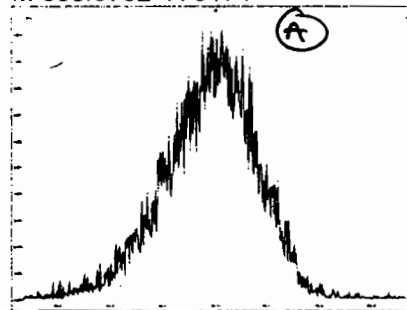
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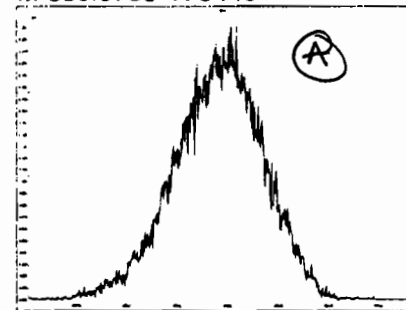
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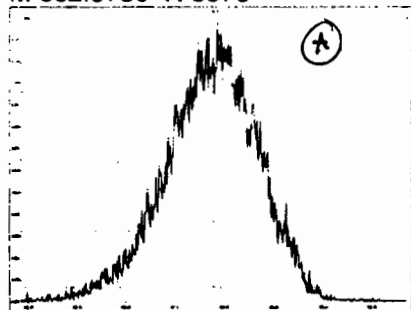
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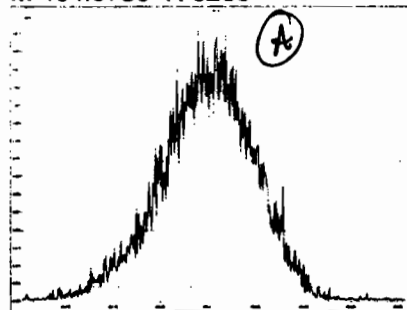
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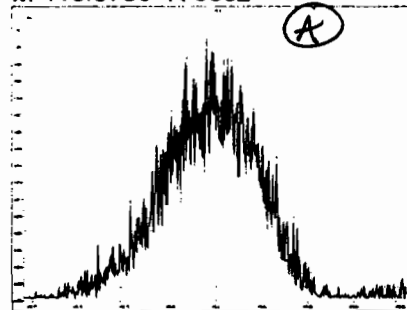
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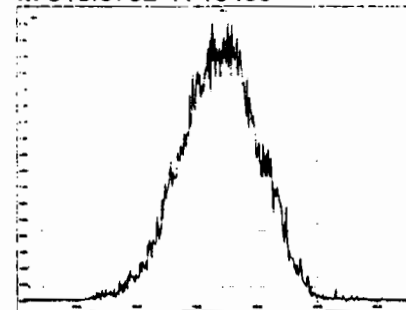
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M 416.9760 R 9362 (A)

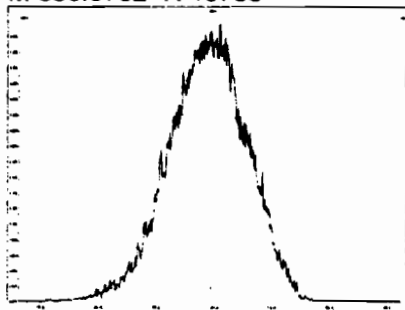


M 318.9792 R 10460

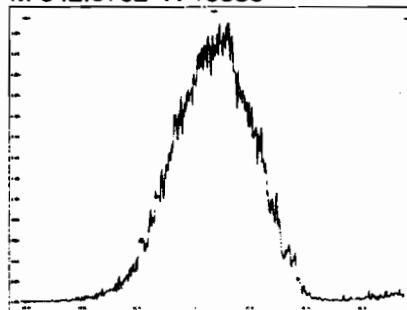


Printed: Monday, February 10, 2020 00:04:07 Pacific Standard Time

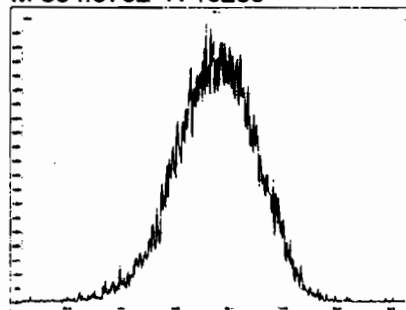
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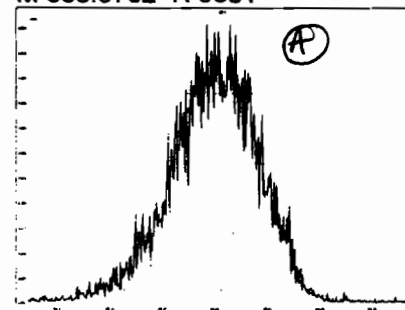
M 342.9792 R 10333



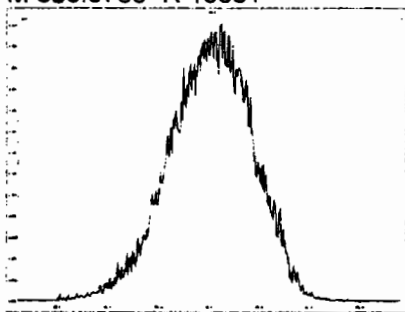
M 354.9792 R 10259



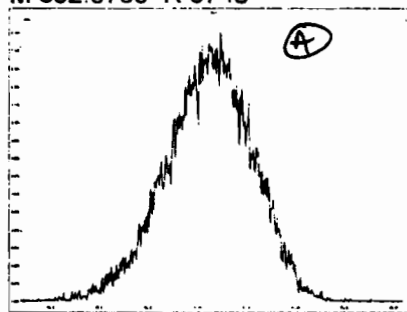
M 366.9792 R 9381



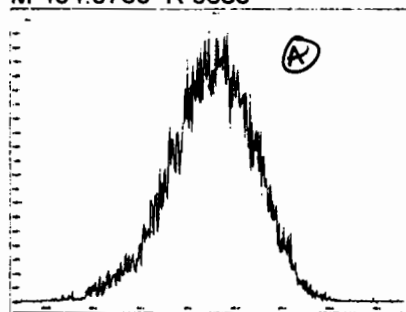
M 380.9760 R 10061



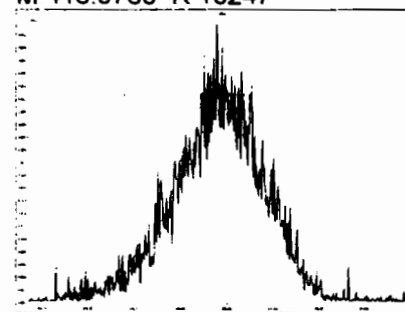
M 392.9760 R 9748



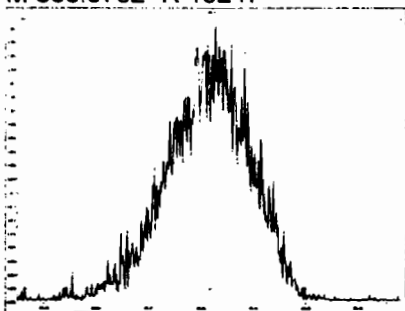
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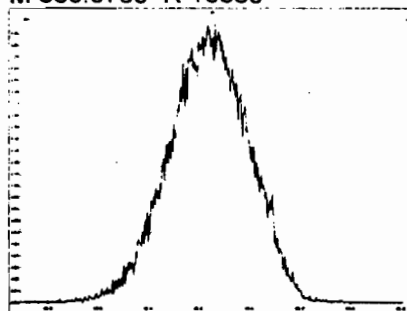
M 416.9760 R 10247



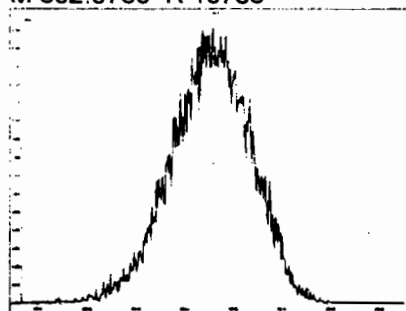
M 366.9792 R 10247



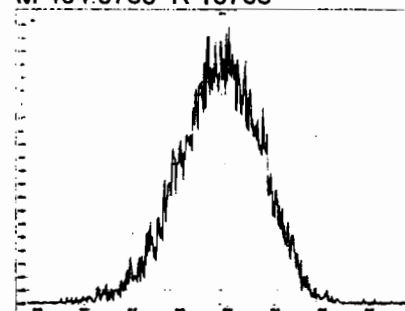
M 380.9760 R 10639



M 392.9760 R 10753

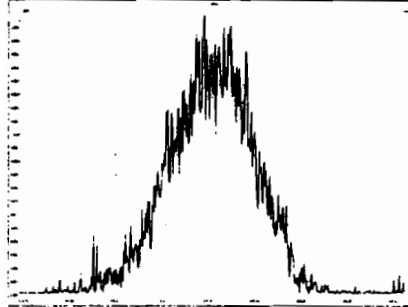


M 404.9760 R 10706

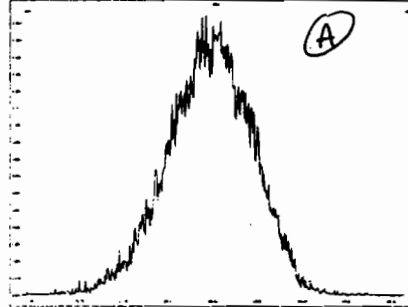


Printed: Monday, February 10, 2020 00:04:07 Pacific Standard Time

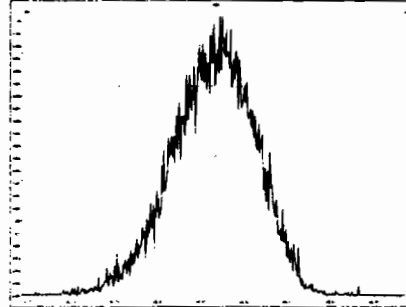
M 416.9760 R 10486



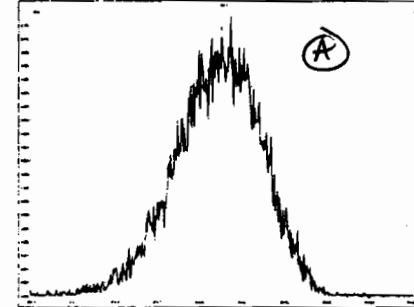
M 430.9728 R 9928



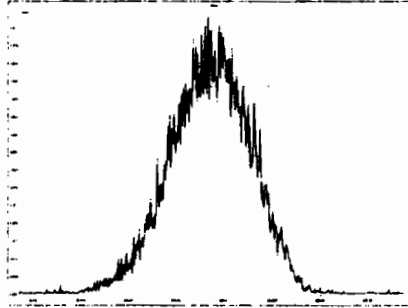
M 442.9728 R 10062



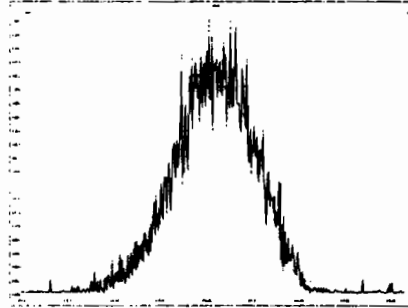
M 454.9728 R 9770



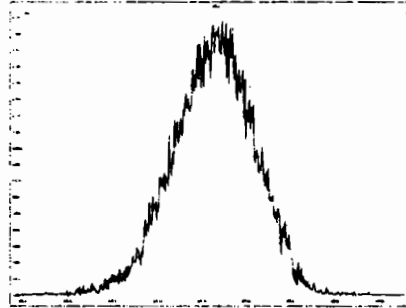
M 404.9760 R 10593



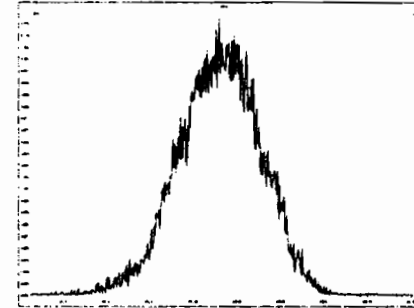
M 416.9760 R 10736



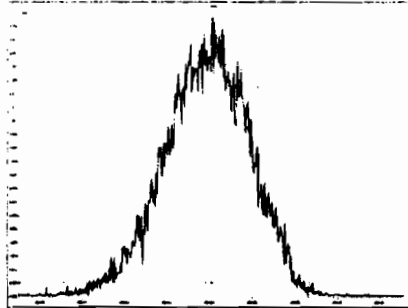
M 430.9728 R 10639



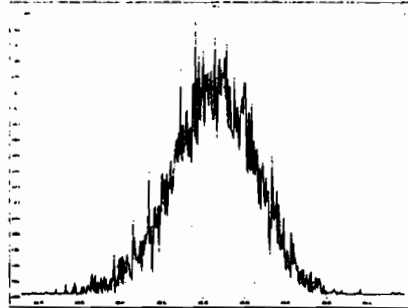
M 442.9728 R 10395



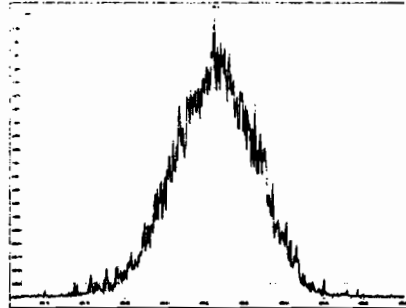
M 454.9728 R 10146



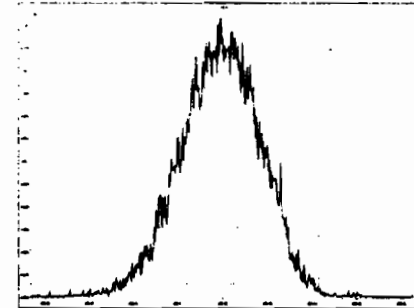
M 466.9728 R 10657



M 480.9696 R 10332

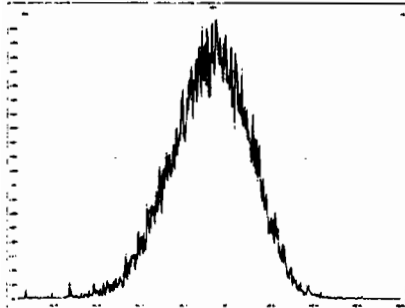


M 430.9728 R 10549

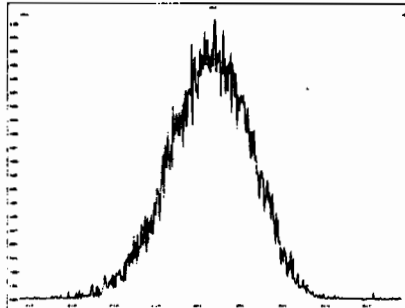


Printed: Monday, February 10, 2020 00:04:07 Pacific Standard Time

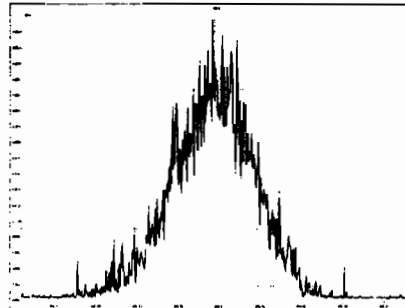
M 442.9728 R 10760



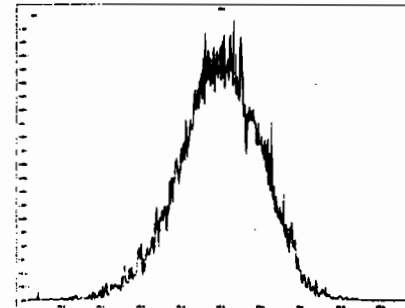
M 454.9728 R 10616



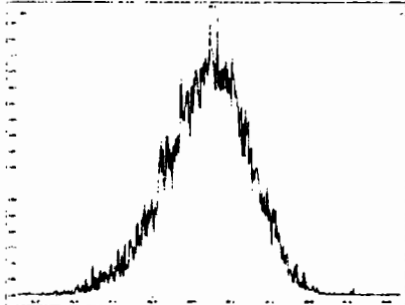
M 466.9728 R 10827



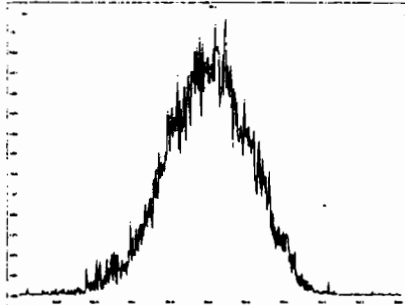
M 480.9696 R 10146



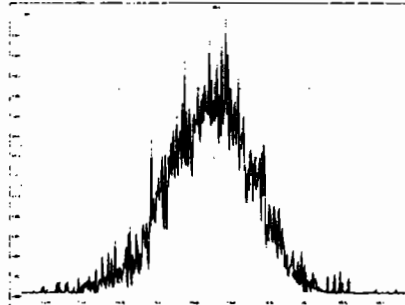
M 492.9696 R 10270



M 504.9696 R 10109



M 516.9697 R 10519



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200211R2-1

Reviewed By: CT 02/12/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
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"/> (Y)	<input type="checkbox"/> N
- Bottle position verified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Mass resolution ≥

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-1.qld

Last Altered: Wednesday, February 12, 2020 11:36:25 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:37:00 Pacific Standard Time

GRB 02/12/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	1.41e5	1.41e6	0.80	NO	0.988	25.80	25.80	NO	1.001	1.001	10.114	101	NO
2	2 1,2,3,7,8-PeCDD	4.59e5	9.84e5	0.63	NO	0.972	30.84	30.82	NO	1.001	1.000	47.994	96.0	NO
3	3 1,2,3,4,7,8-HxCDD	3.93e5	7.49e5	1.23	NO	1.07	34.19	34.19	NO	1.000	1.000	49.031	98.1	NO
4	4 1,2,3,6,7,8-HxCDD	4.15e5	9.54e5	1.23	NO	0.921	34.28	34.29	NO	1.000	1.000	47.261	94.5	NO
5	5 1,2,3,7,8,9-HxCDD	3.67e5	8.73e5	1.19	NO	0.918	34.59	34.56	NO	1.001	1.000	45.857	91.7	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.55e5	7.90e5	1.04	NO	0.923	38.08	38.08	NO	1.000	1.000	48.598	97.2	NO
7	7 OCDD	5.65e5	1.17e6	0.87	NO	0.975	41.09	41.10	NO	1.000	1.000	99.106	99.1	NO
8	8 2,3,7,8-TCDF	1.61e5	2.02e6	0.75	NO	0.802	24.86	24.87	NO	1.001	1.001	9.8989	99.0	NO
9	9 1,2,3,7,8-PeCDF	7.19e5	1.60e6	1.55	NO	0.907	29.53	29.52	NO	1.001	1.001	49.614	99.2	NO
10	10 2,3,4,7,8-PeCDF	7.28e5	1.54e6	1.55	NO	0.952	30.53	30.51	NO	1.001	1.001	49.771	99.5	NO
11	11 1,2,3,4,7,8-HxCDF	4.45e5	9.95e5	1.17	NO	0.862	33.32	33.33	NO	1.000	1.000	51.836	104	NO
12	12 1,2,3,6,7,8-HxCDF	4.98e5	1.11e6	1.18	NO	0.841	33.44	33.46	NO	1.000	1.001	53.323	107	NO
13	13 2,3,4,6,7,8-HxCDF	4.83e5	9.93e5	1.18	NO	0.898	34.04	34.02	NO	1.001	1.000	54.149	108	NO
14	14 1,2,3,7,8,9-HxCDF	3.59e5	8.16e5	1.18	NO	0.858	34.89	34.91	NO	1.000	1.001	51.330	103	NO
15	15 1,2,3,4,6,7,8-HpCDF	3.61e5	8.11e5	0.97	NO	0.851	36.68	36.65	NO	1.001	1.000	52.266	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	2.90e5	5.71e5	0.98	NO	0.980	38.68	38.69	NO	1.000	1.000	51.829	104	NO
17	17 OCDF	5.62e5	1.36e6	0.88	NO	0.806	41.28	41.29	NO	1.000	1.000	102.52	103	NO
18	18 13C-2,3,7,8-TCDD	1.41e6	1.22e6	0.79	NO	1.20	25.75	25.76	NO	1.026	1.026	96.942	96.9	NO
19	19 13C-1,2,3,7,8-PeCDD	9.84e5	1.22e6	0.65	NO	0.967	30.51	30.82	NO	1.215	1.228	83.635	83.6	NO
20	20 13C-1,2,3,4,7,8-HxCDD	7.49e5	1.00e6	1.28	NO	0.874	34.18	34.18	NO	1.014	1.014	85.574	85.6	NO
21	21 13C-1,2,3,6,7,8-HxCDD	9.54e5	1.00e6	1.27	NO	1.05	34.28	34.28	NO	1.017	1.017	91.143	91.1	NO
22	22 13C-1,2,3,7,8,9-HxCDD	8.73e5	1.00e6	1.24	NO	0.974	34.59	34.55	NO	1.026	1.025	89.479	89.5	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.90e5	1.00e6	1.02	NO	0.747	38.16	38.07	NO	1.132	1.129	105.66	106	NO
24	24 13C-OCDD	1.17e6	1.00e6	0.89	NO	0.707	41.06	41.09	NO	1.218	1.219	165.30	82.6	NO
25	25 13C-2,3,7,8-TCDF	2.02e6	1.90e6	0.78	NO	1.07	24.93	24.84	NO	0.993	0.989	100.03	100	NO
26	26 13C-1,2,3,7,8-PeCDF	1.60e6	1.90e6	1.59	NO	1.00	29.27	29.51	NO	1.166	1.175	83.999	84.0	NO
27	27 13C-2,3,4,7,8-PeCDF	1.54e6	1.90e6	1.59	NO	0.962	30.50	30.50	NO	1.215	1.215	84.249	84.2	NO
28	28 13C-1,2,3,4,7,8-HxCDF	9.95e5	1.00e6	0.51	NO	1.05	33.31	33.32	NO	0.988	0.988	94.740	94.7	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.11e6	1.00e6	0.51	NO	1.19	33.41	33.43	NO	0.991	0.992	93.224	93.2	NO
30	30 13C-2,3,4,6,7,8-HxCDF	9.93e5	1.00e6	0.52	NO	1.07	34.02	34.01	NO	1.009	1.009	93.089	93.1	NO
31	31 13C-1,2,3,7,8,9-HxCDF	8.16e5	1.00e6	0.50	NO	0.922	34.92	34.89	NO	1.036	1.035	88.412	88.4	NO

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-1.qld

Last Altered: Wednesday, February 12, 2020 11:36:25 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:37:00 Pacific Standard Time

Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	8.11e5	1.00e6	0.45	NO	0.767	36.68	36.64	NO	1.088	1.087	105.61	106	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.71e5	1.00e6	0.43	NO	0.552	38.70	38.68	NO	1.148	1.148	103.31	103	NO
34	34 13C-OCDF	1.36e6	1.00e6	0.88	NO	0.789	41.29	41.28	NO	1.225	1.225	172.37	86.2	NO
35	35 37Cl-2,3,7,8-TCDD	1.41e5	1.22e6			1.18	25.78	25.78	NO	1.027	1.027	9.8761	98.8	NO
36	36 13C-1,2,3,4-TCDD	1.22e6	1.22e6	0.81	NO	1.00	25.11	25.11	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.90e6	1.90e6	0.79	NO	1.00	23.37	23.37	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.00e6	1.00e6	0.50	NO	1.00	33.71	33.71	NO	1.000	1.000	100.00	100	YES <i>ck</i>
39	39 Total Tetra-Dioxins		1.41e6			0.988	24.62		NO	0.000		87.083		NO
40	40 Total Penta-Dioxins		9.84e5			0.972	29.96		NO	0.000		218.22		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		242.21		NO
42	42 Total Hepta-Dioxins		7.90e5			0.923	37.64		NO	0.000		118.98		NO
43	43 Total Tetra-Furans		2.02e6			0.802	23.61		NO	0.000		48.783		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		86.657		NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		171.50		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		301.69		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		104.57		NO

Dataset: U:\VG12.PRO\Results\200211R2\200211R2-CPSM.qld

Last Altered: Tuesday, February 11, 2020 16:49:38 Pacific Standard Time

Printed: Tuesday, February 11, 2020 16:50:08 Pacific Standard Time

Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.69
2	2 1,2,8,9-TCDD (Last)	26.77
3	3 1,2,4,7,9-PeCDD (First)	28.59
4	4 1,2,3,8,9-PeCDD (Last)	31.22
5	5 1,2,4,6,7,9-HxCDD (First)	32.72
6	6 1,2,3,7,8,9-HxCDD (Last)	34.56
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.04
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.08
9	9 1,3,6,8-TCDF (First)	19.63
10	10 1,2,8,9-TCDF (Last)	26.92
11	11 1,3,4,6,8-PeCDF (First)	26.89
12	12 1,2,3,8,9-PeCDF (Last)	31.45
13	13 1,2,3,4,6,8-HxCDF (First)	32.17
14	14 1,2,3,7,8,9-HxCDF (Last)	34.91
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.65
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.69

Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 11:37:42 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:38:28 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200211R2_1	ST200211R2_1 1613 CS3 19L2305	11-Feb-20	15:56:15
2	200211R2_2	B0A0104-BS1 OPR 1	11-Feb-20	16:45:00
3	200211R2_3	SOLVENT BLANK	11-Feb-20	17:31:16
4	200211R2_4	B0A0104-BLK1 Method Blank 1	11-Feb-20	18:18:29
5	200211R2_5	2000030-01 Forebay Composite (24 hr) 1.00463	11-Feb-20	19:05:46
6	200211R2_6	2000033-01 EFF-001 Composite 1.00088	11-Feb-20	19:53:03
7	200211R2_7	2000043-01 EFF-002 0.92038	11-Feb-20	20:40:19
8	200211R2_8	2000063-01 LU00065 0.92599	11-Feb-20	21:27:37
9	200211R2_9	1903738-02 PDI-059SC-B-02-04-191016 12.59	11-Feb-20	22:14:54
10	200211R2_10	1903738-03 PDI-059SC-B-04-06-191016 13.87	11-Feb-20	23:02:11
11	200211R2_11	1903738-04 PDI-059SC-B-06-08-191016 14.5	11-Feb-20	23:49:29
12	200211R2_12	1903738-08 PDI-069SC-B-06-08-191016 16.36	12-Feb-20	00:36:46
13	200211R2_13	1903738-05 PDI-069SC-B-00-02-191016 17.26	12-Feb-20	01:24:02
14	200211R2_14	1903738-06 PDI-069SC-B-02-04-191016 16.94	12-Feb-20	02:11:22
15	200211R2_15	1903738-07 PDI-069SC-B-04-06-191016 16.97	12-Feb-20	02:58:39

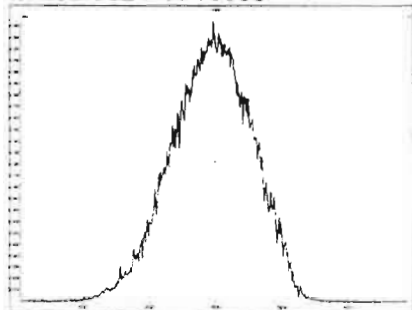
Experiment Calibration Report

MassLynx 4.1 SCN815

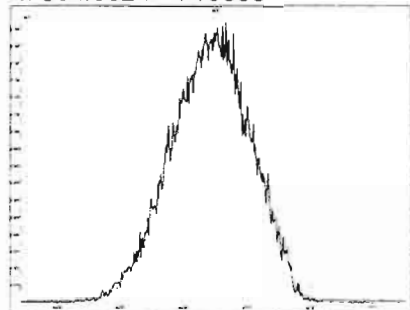
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, February 11, 2020 15:51:28 Pacific Standard Time

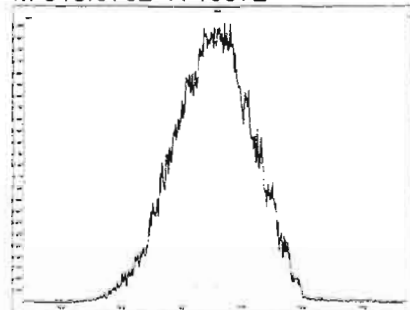
M 292.9824 R 10866



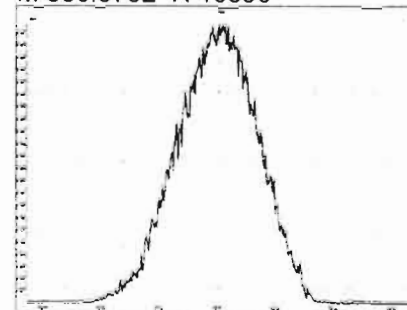
M 304.9824 R 10593



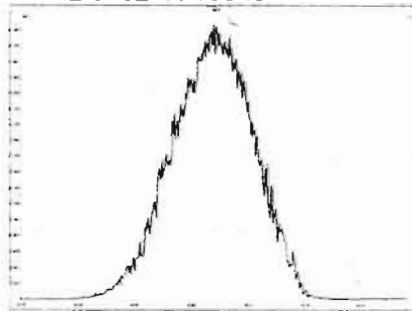
M 318.9792 R 10372



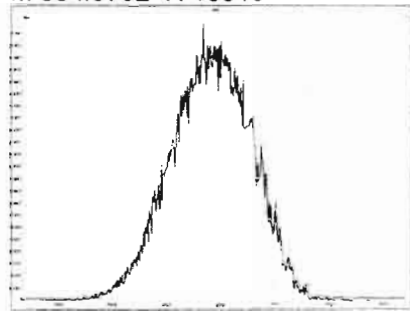
M 330.9792 R 10590



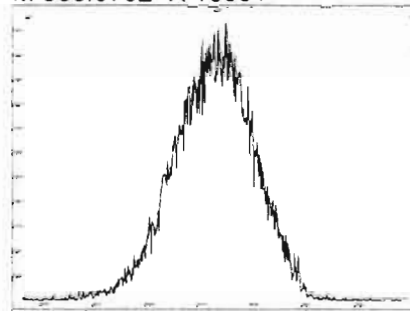
M 342.9792 R 10548



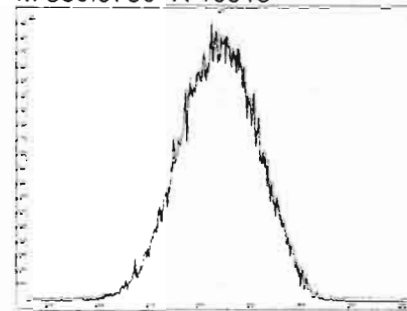
M 354.9792 R 10919



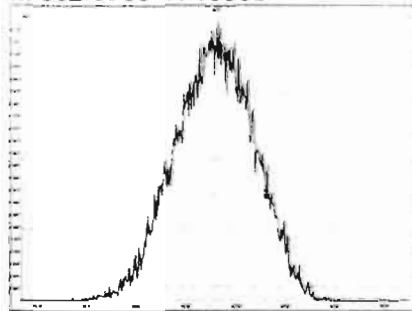
M 366.9792 R 10331



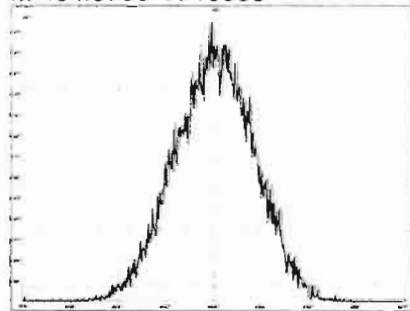
M 380.9760 R 10916



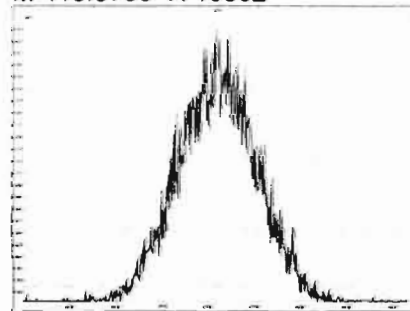
M 392.9760 R 10685



M 404.9760 R 10965



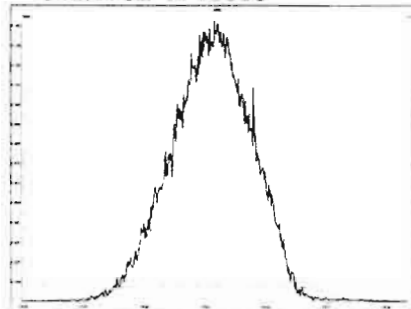
M 416.9760 R 10592



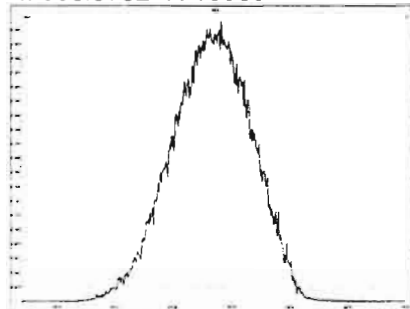
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Tuesday, February 11, 2020 15:52:09 Pacific Standard Time

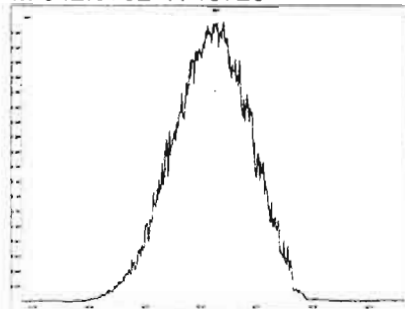
M 318.9792 R 10503



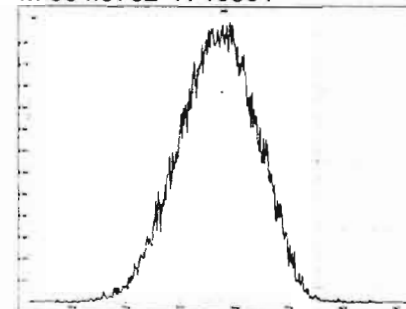
M 330.9792 R 10686



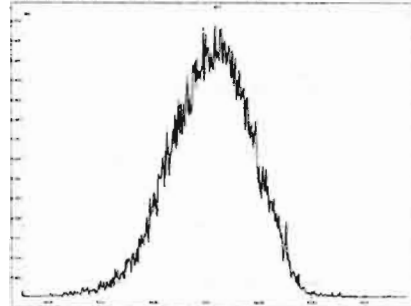
M 342.9792 R 10725



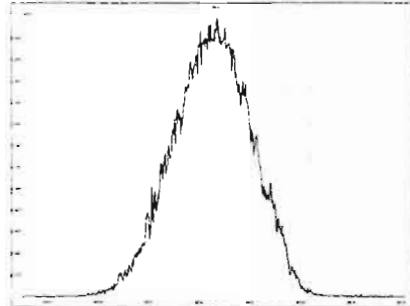
M 354.9792 R 10591



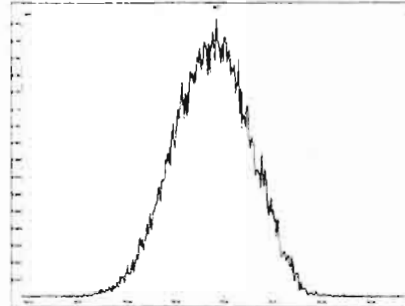
M 366.9792 R 10413



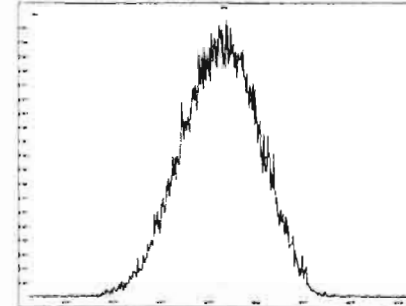
M 380.9760 R 10548



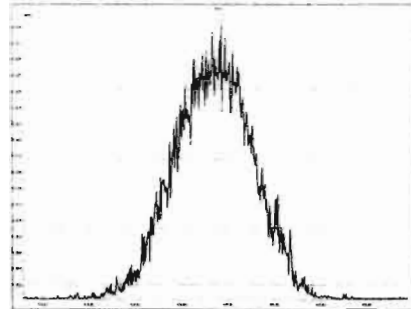
M 392.9760 R 10640



M 404.9760 R 10549



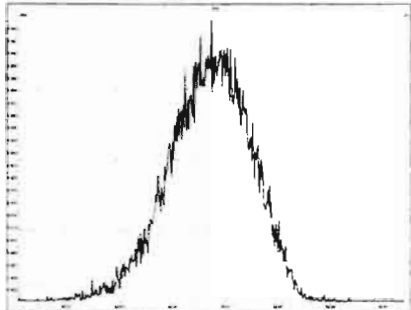
M 416.9760 R 11210



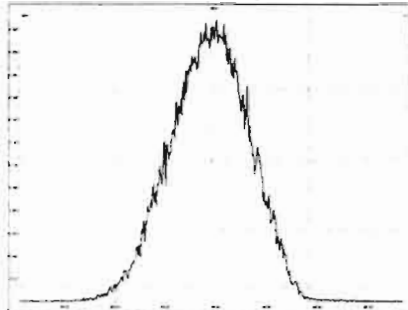
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Printed: Tuesday, February 11, 2020 15:52:47 Pacific Standard Time

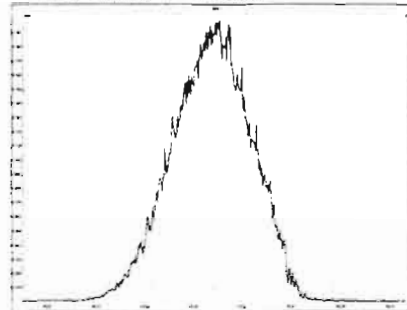
M 366.9792 R 10501



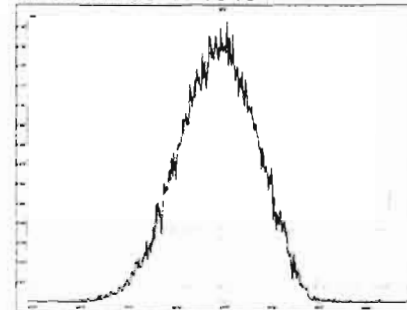
M 380.9760 R 10593



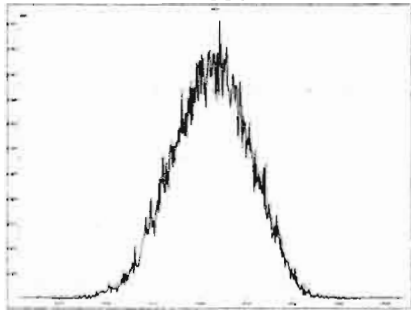
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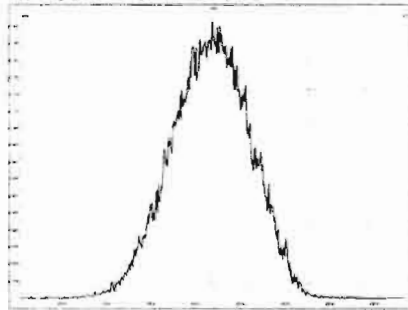
M 404.9760 R 10461



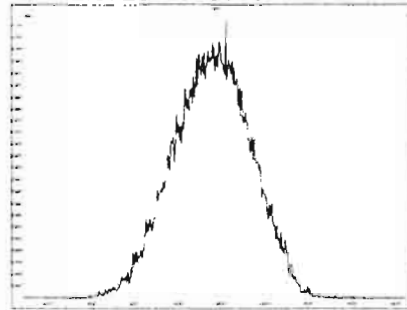
M 416.9760 R 10637



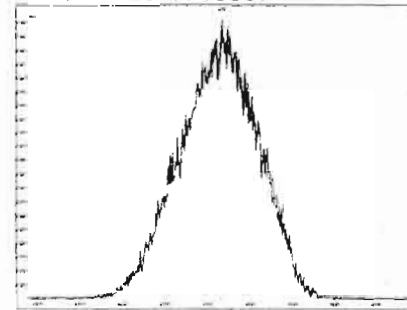
M 430.9728 R 10546



M 442.9728 R 10593



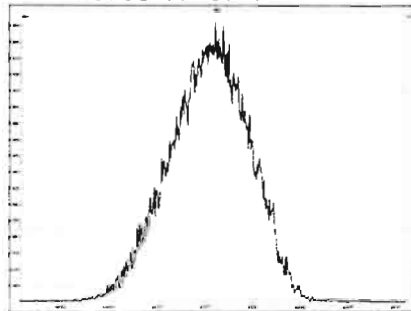
M 454.9728 R 10637



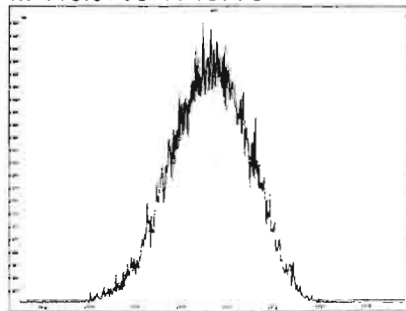
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Printed: Tuesday, February 11, 2020 15:53:30 Pacific Standard Time

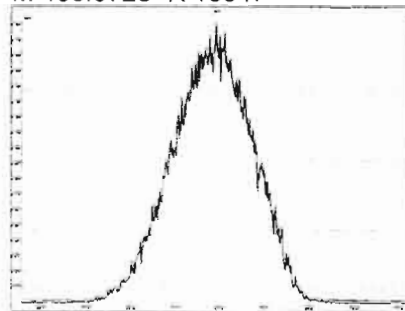
M 404.9760 R 10777



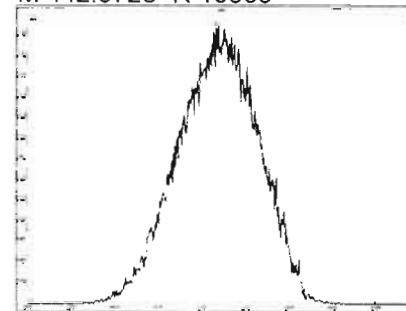
M 416.9760 R 10775



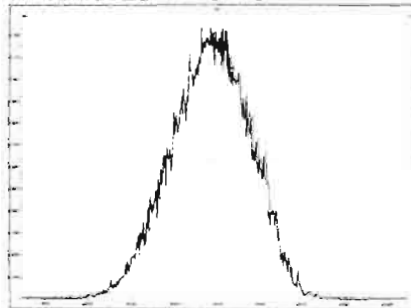
M 430.9728 R 10547



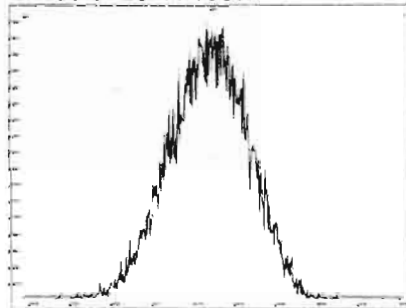
M 442.9728 R 10639



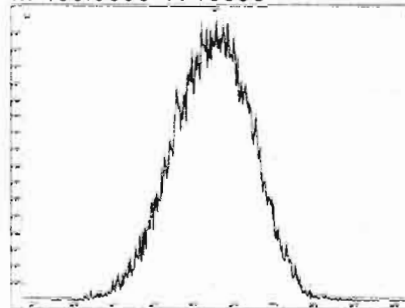
M 454.9728 R 10775



M 466.9728 R 10871

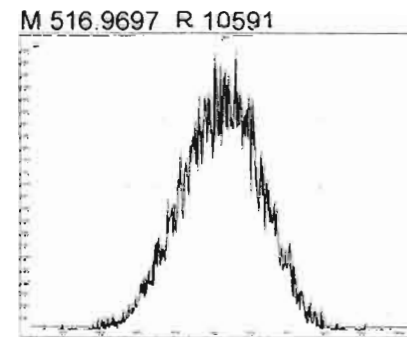
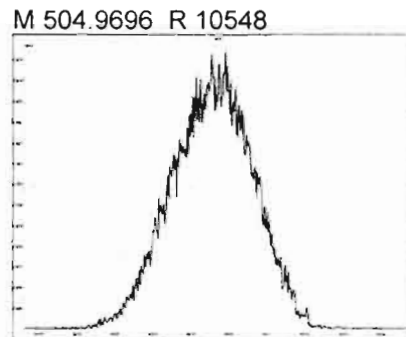
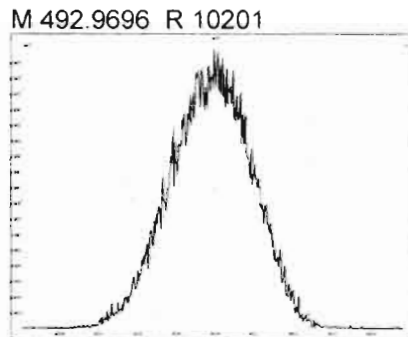
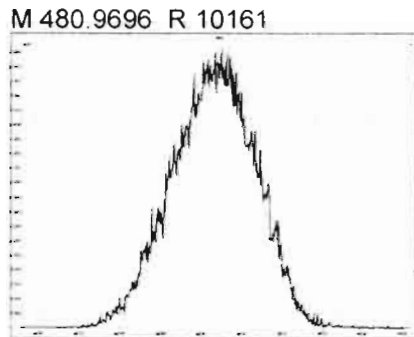
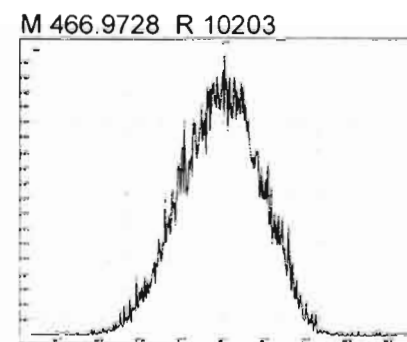
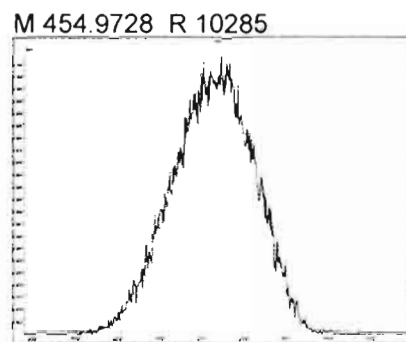
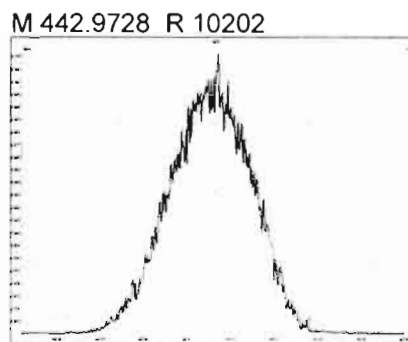
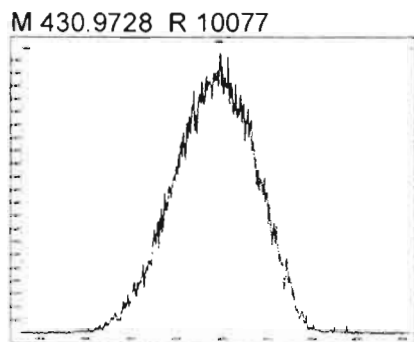


M 480.9696 R 10593



File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Tuesday, February 11, 2020 15:54:03 Pacific Standard Time



Dataset: U:\VG12.PRO\Results\200211R2\200211R2-CPSM.qld

Last Altered: Tuesday, February 11, 2020 16:49:38 Pacific Standard Time
Printed: Tuesday, February 11, 2020 16:50:08 Pacific Standard Time

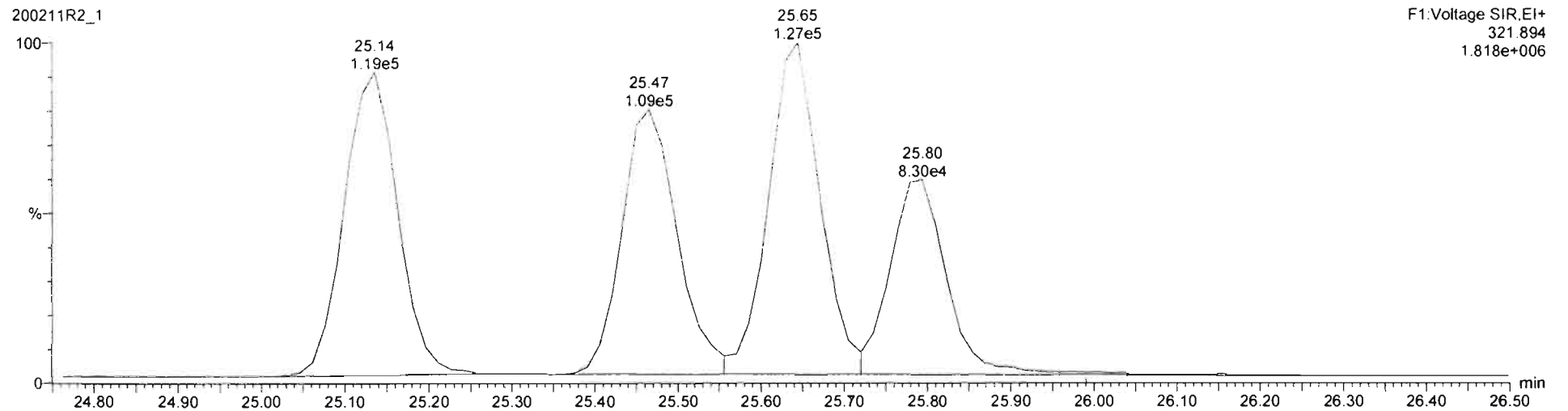
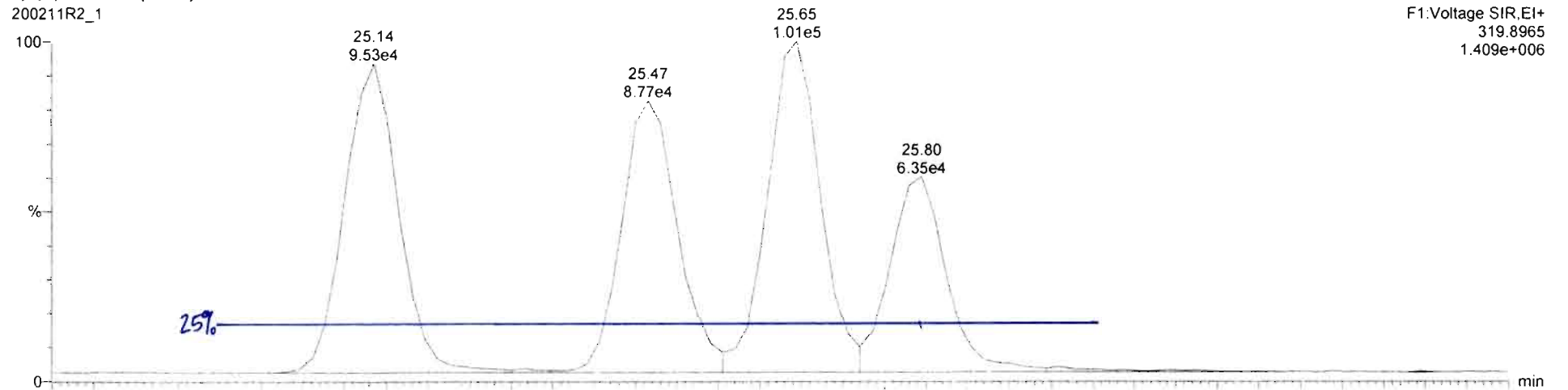
GPO 02/12/2020

Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)



Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 11:33:12 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

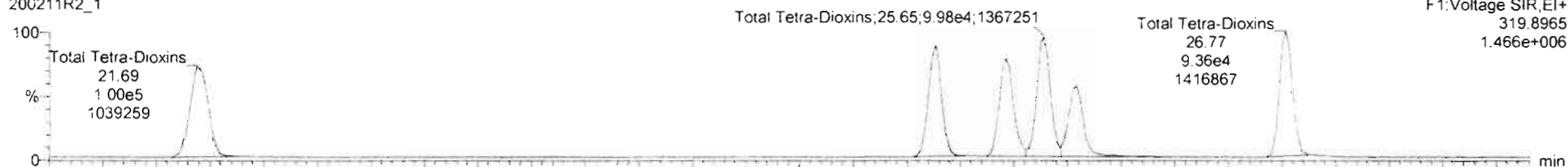
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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

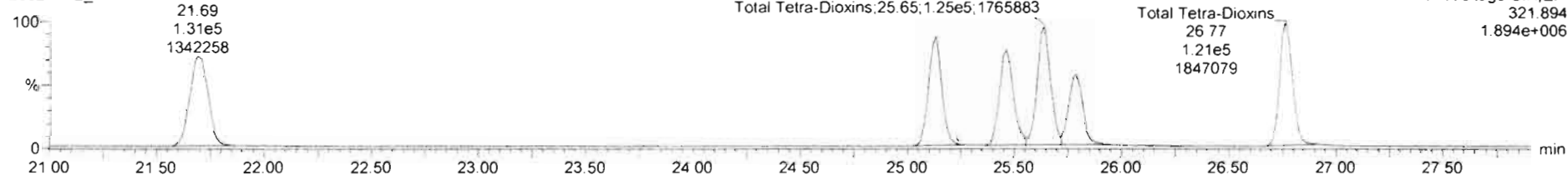
Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200211R2_1

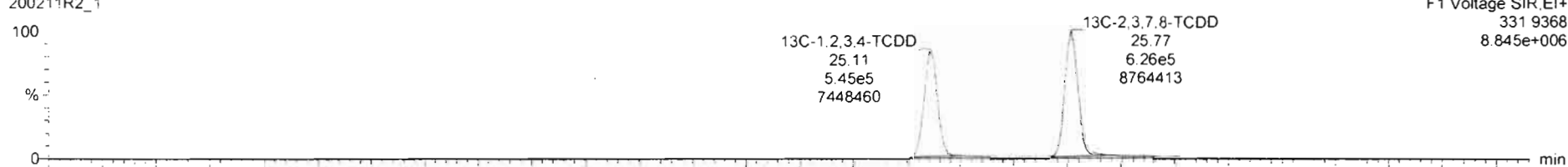


200211R2_1 Total Tetra-Dioxins

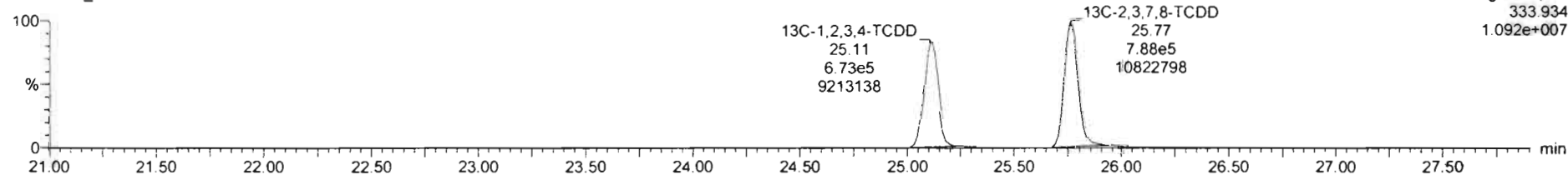


13C-2,3,7,8-TCDD

200211R2_1



200211R2_1



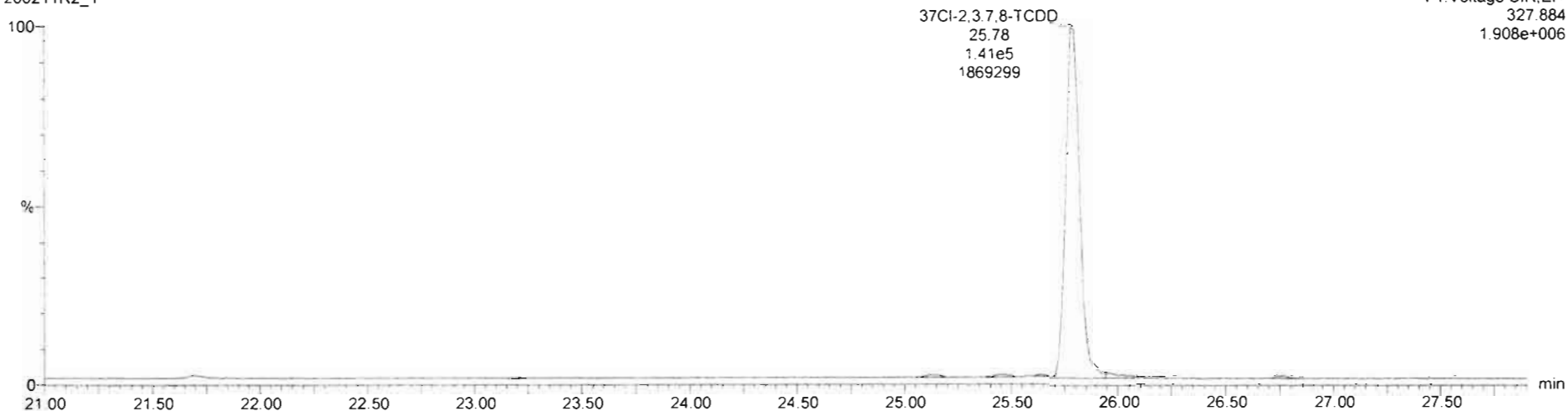
Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 11:33:12 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

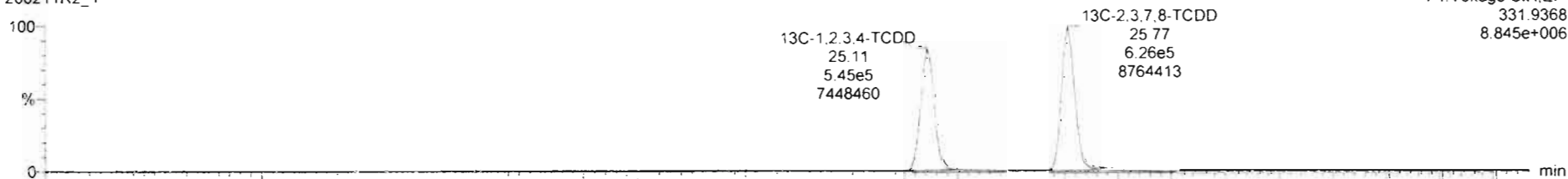
37Cl-2,3,7,8-TCDD

200211R2_1

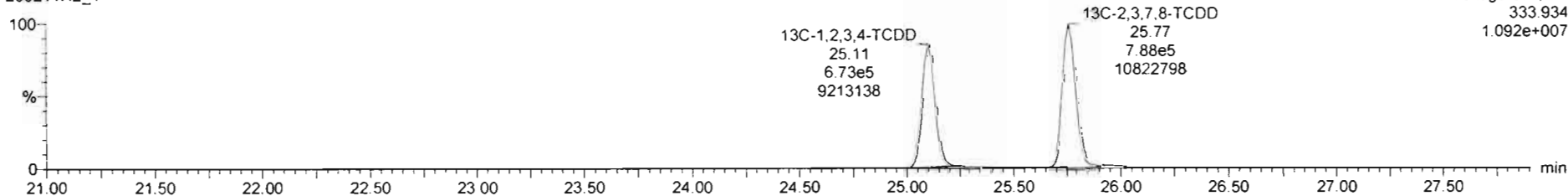


13C-1,2,3,4-TCDD

200211R2_1



200211R2_1



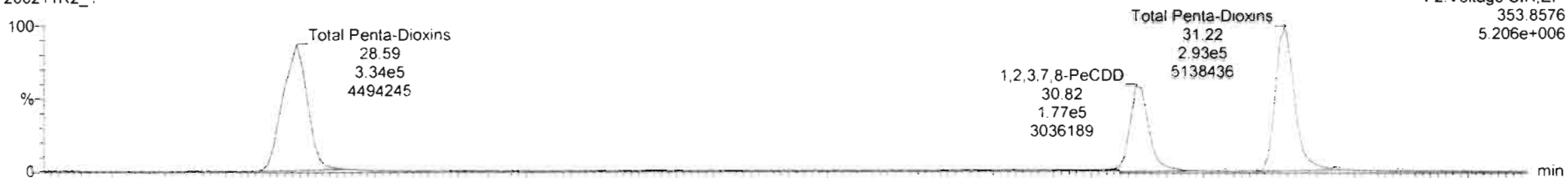
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Last Altered: Wednesday, February 12, 2020 11:33:12 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

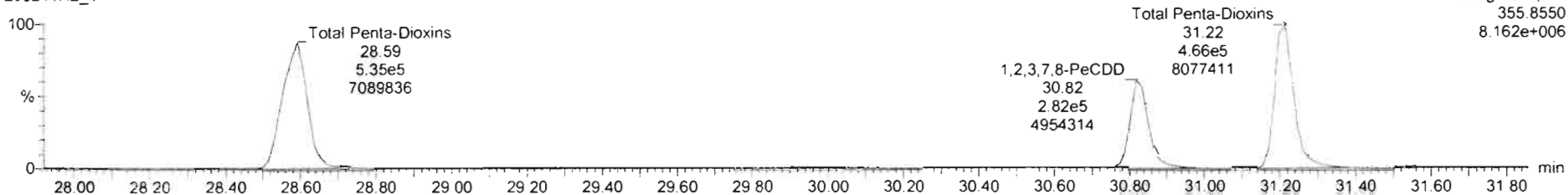
1,2,3,7,8-PeCDD

200211R2_1



F2: Voltage SIR, EI+
353.8576
5.206e+006

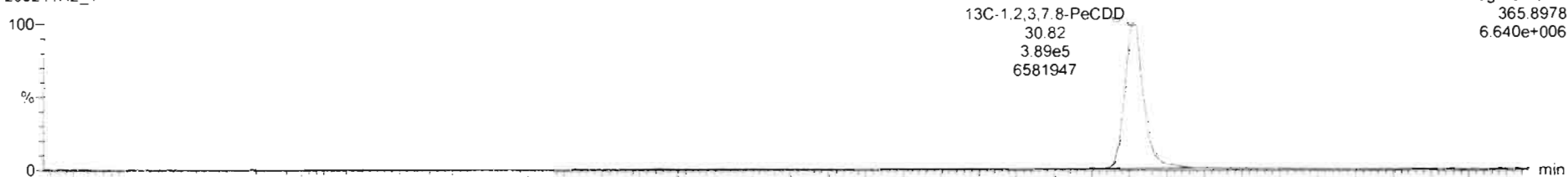
200211R2_1



F2: Voltage SIR, EI+
355.8550
8.162e+006

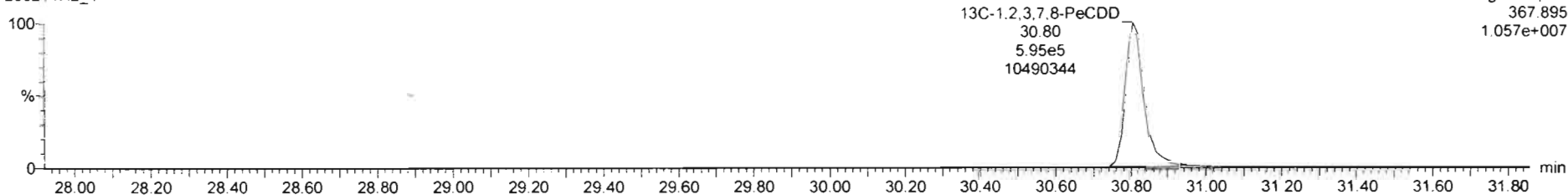
13C-1,2,3,7,8-PeCDD

200211R2_1



F2: Voltage SIR, EI+
365.8978
6.640e+006

200211R2_1



F2: Voltage SIR, EI+
367.895
1.057e+007

Dataset: Untitled

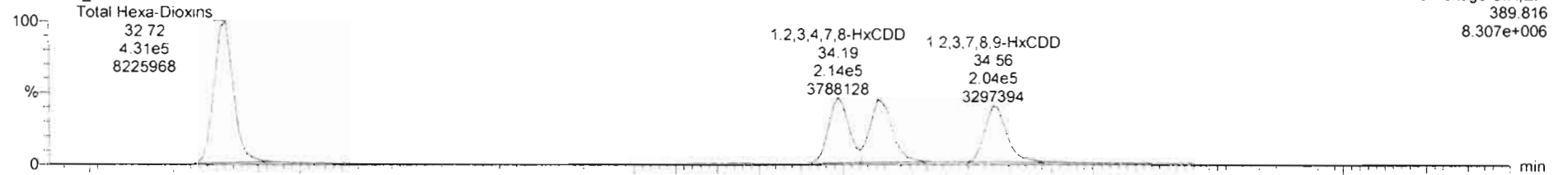
Last Altered: Wednesday, February 12, 2020 11:33:12 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

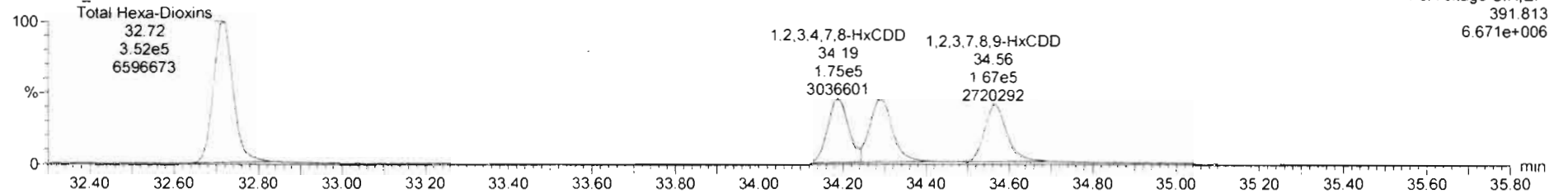
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1,2,3,4,7,8-HxCDD

200211R2_1

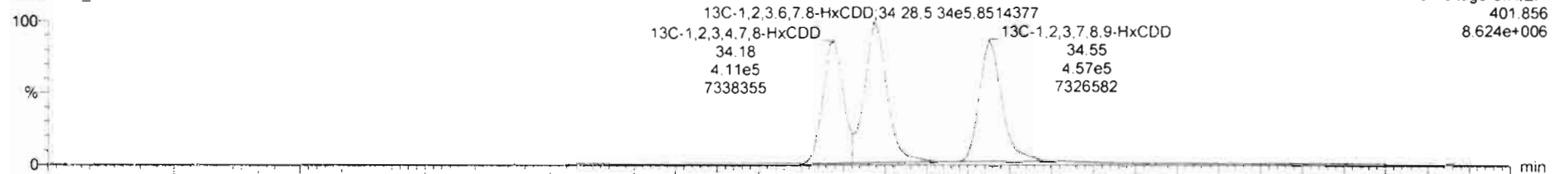


200211R2_1

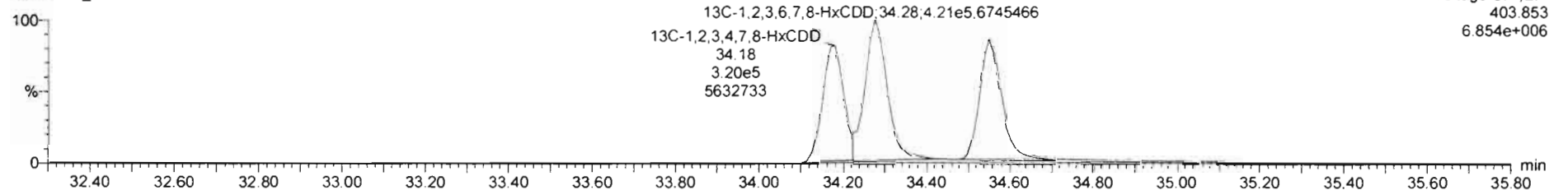


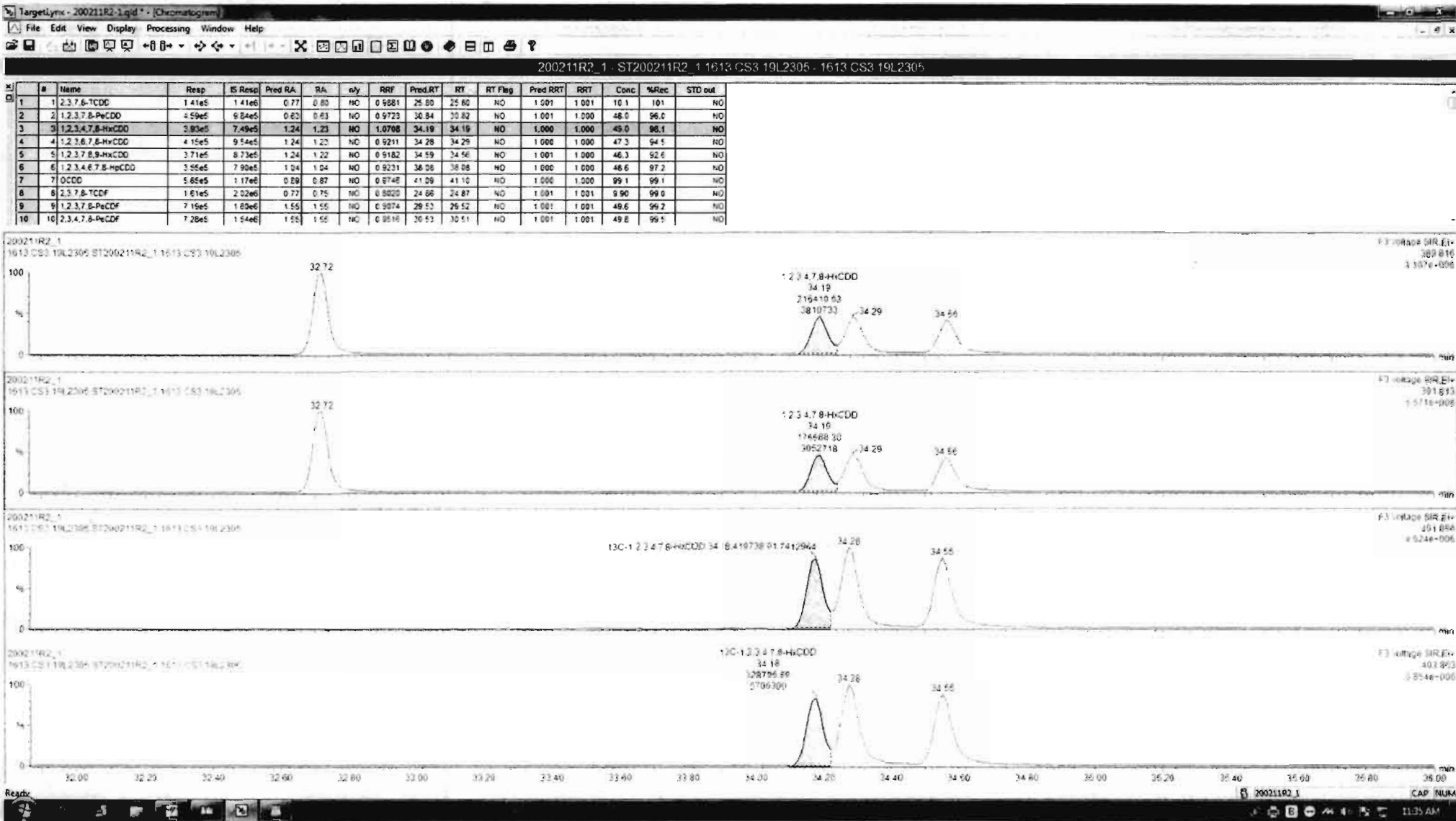
13C-1,2,3,4,7,8-HxCDD

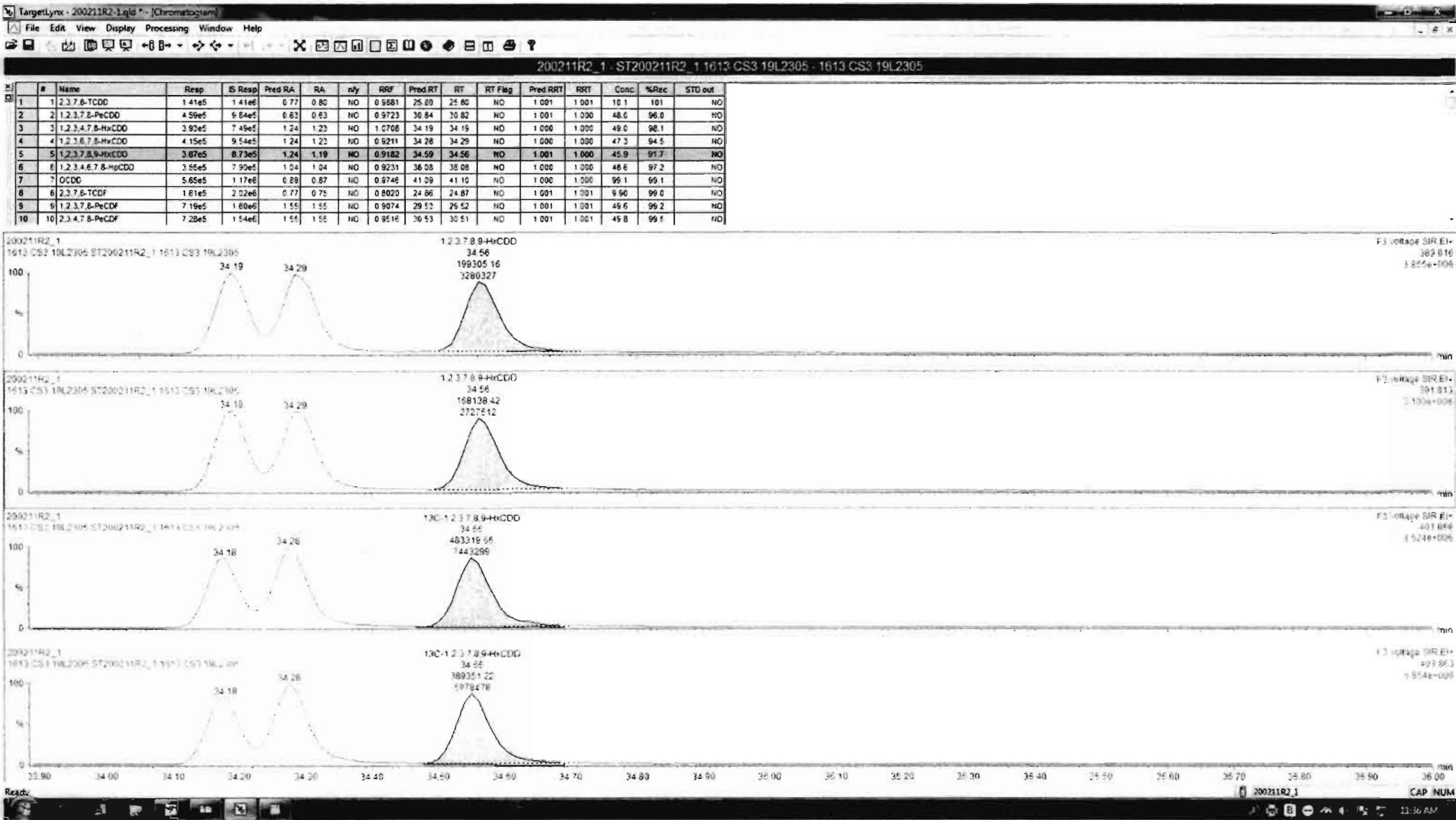
200211R2_1



200211R2_1







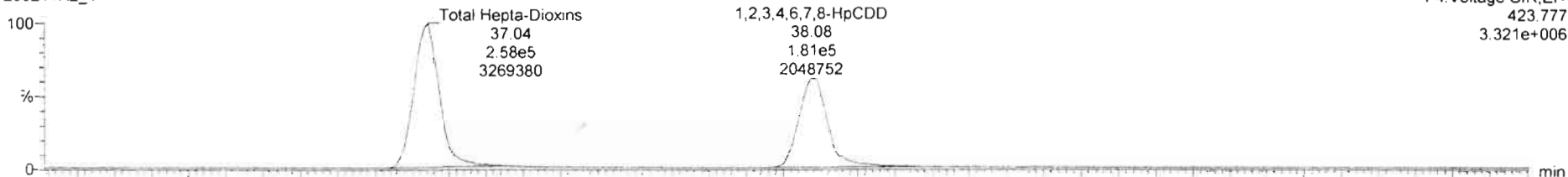
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Last Altered: Wednesday, February 12, 2020 11:33:12 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

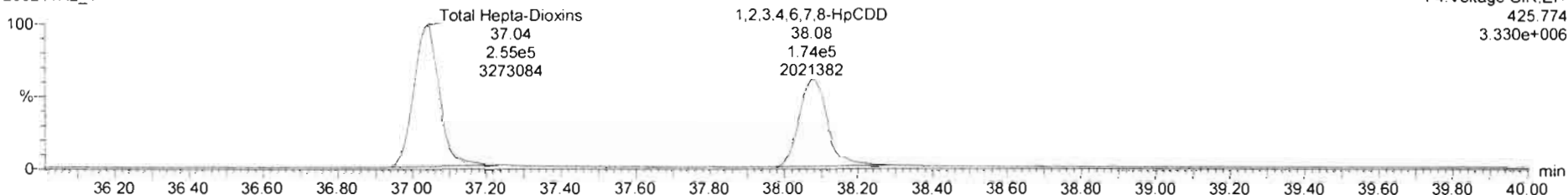
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1,2,3,4,6,7,8-HpCDD

200211R2_1

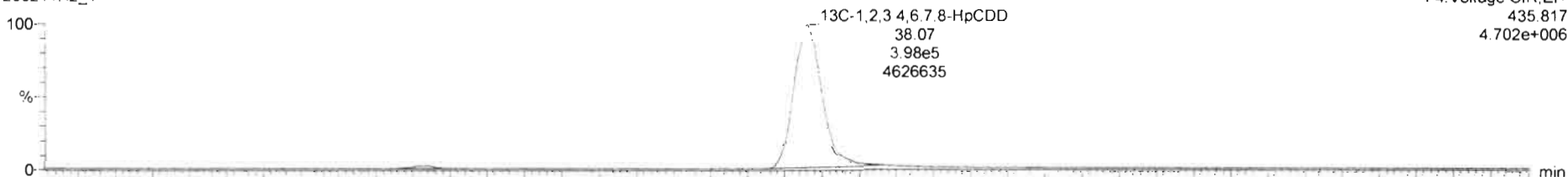


200211R2_1

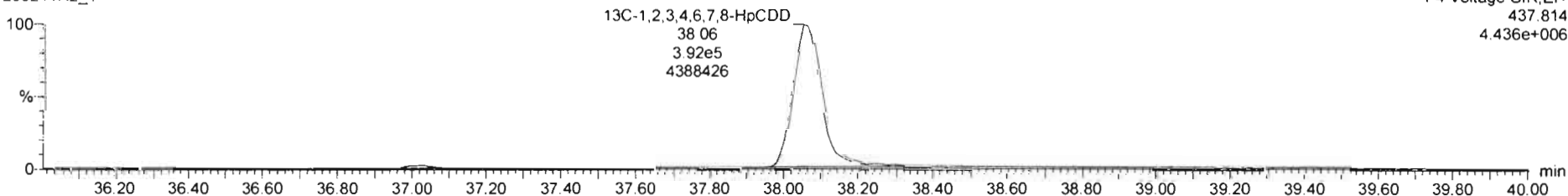


13C-1,2,3,4,6,7,8-HpCDD

200211R2_1



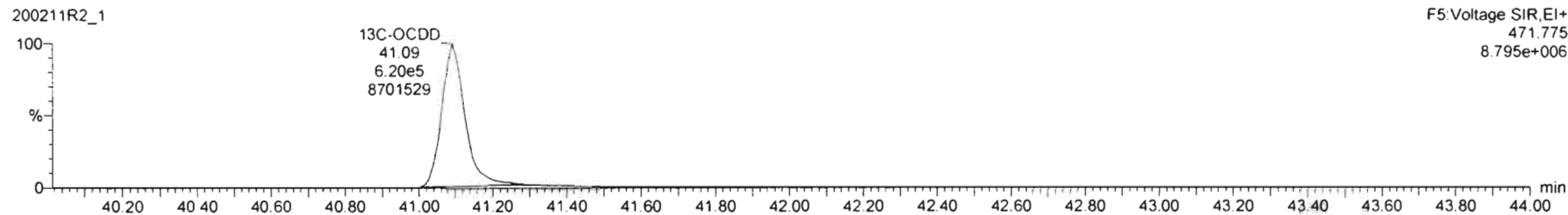
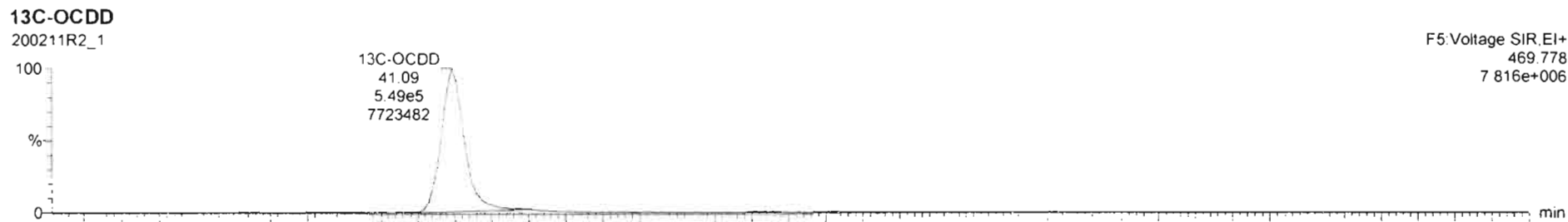
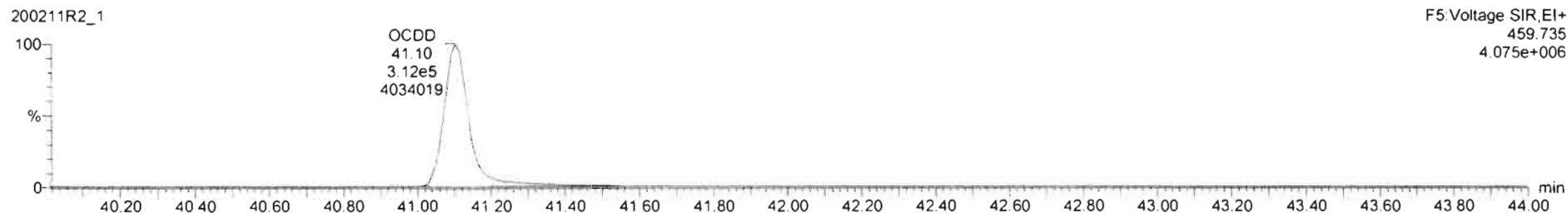
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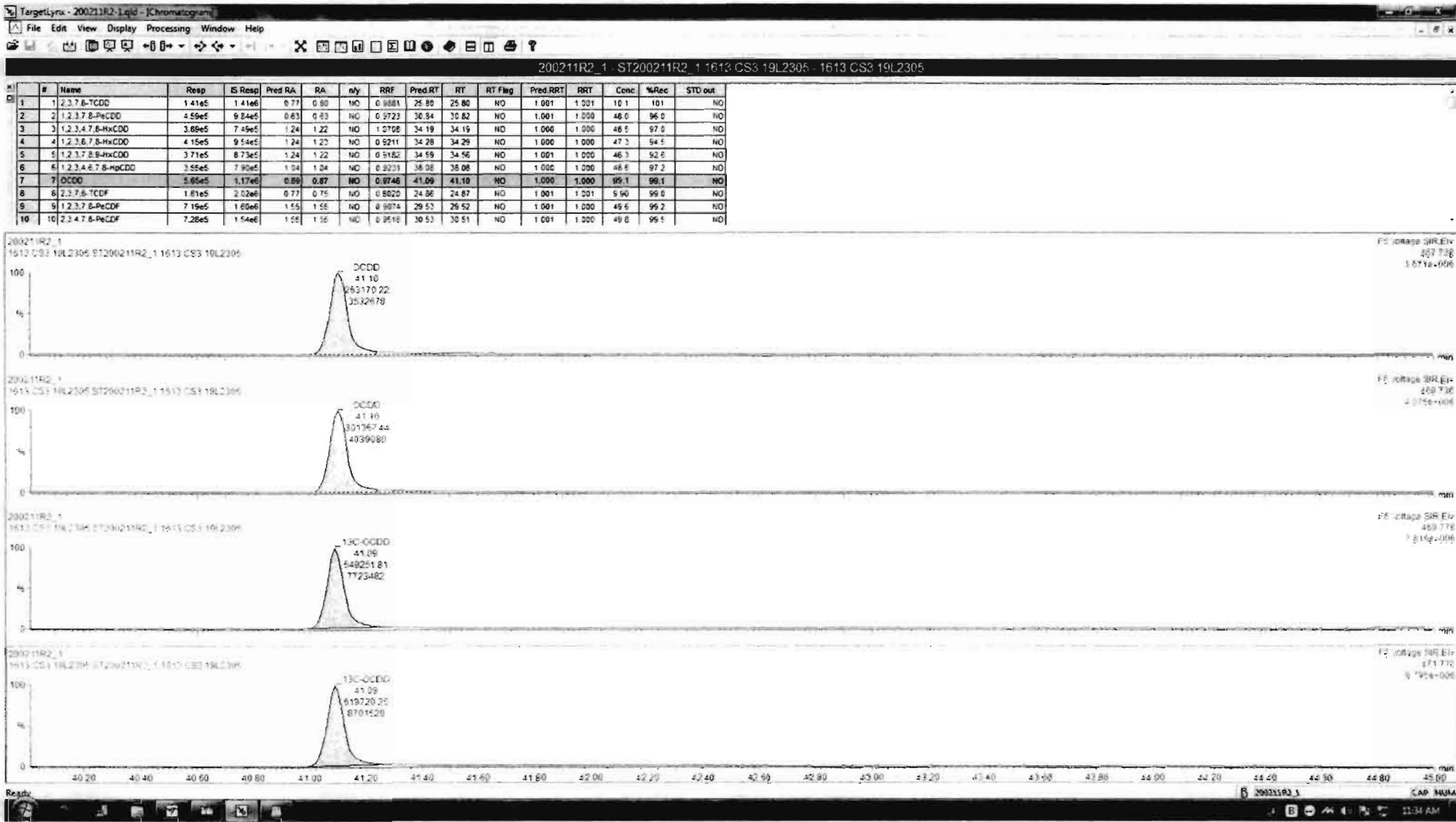


Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 11:33:12 Pacific Standard Time
Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305





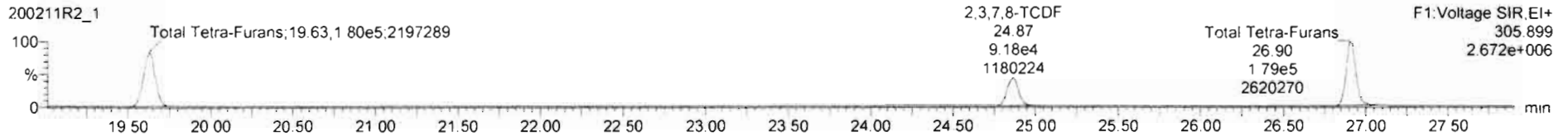
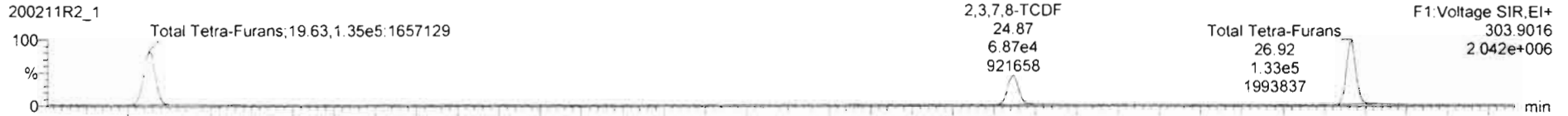
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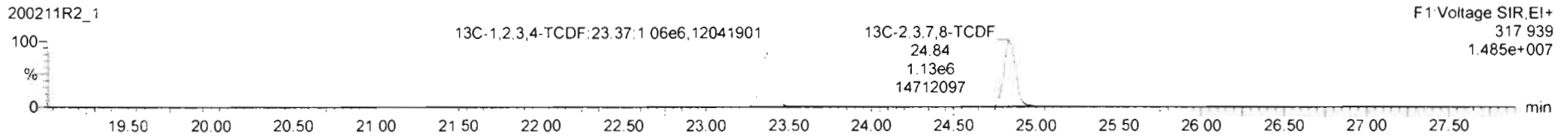
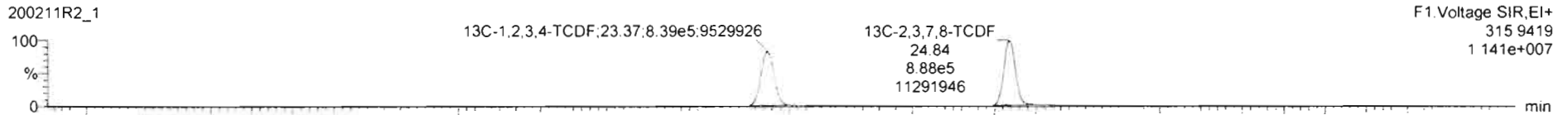
Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

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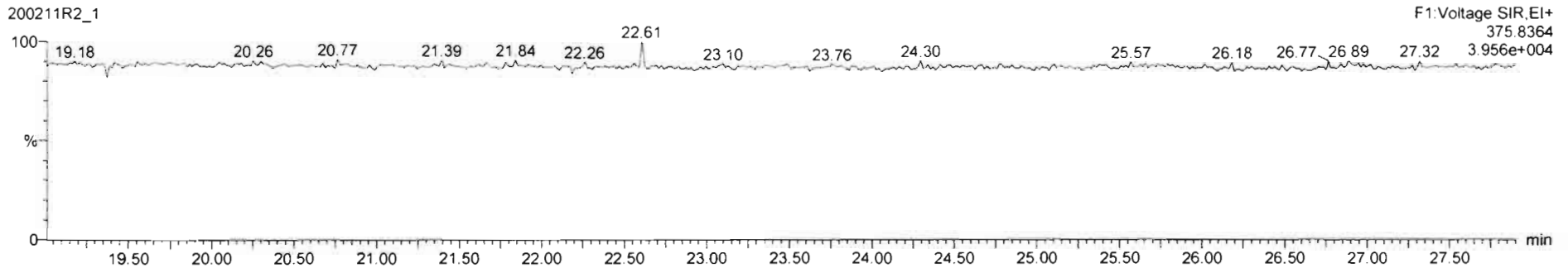
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

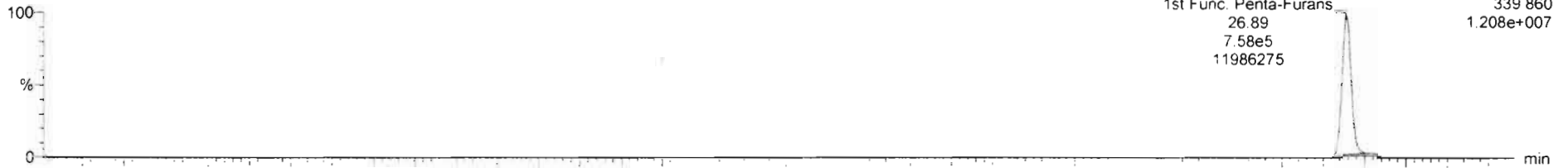
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Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

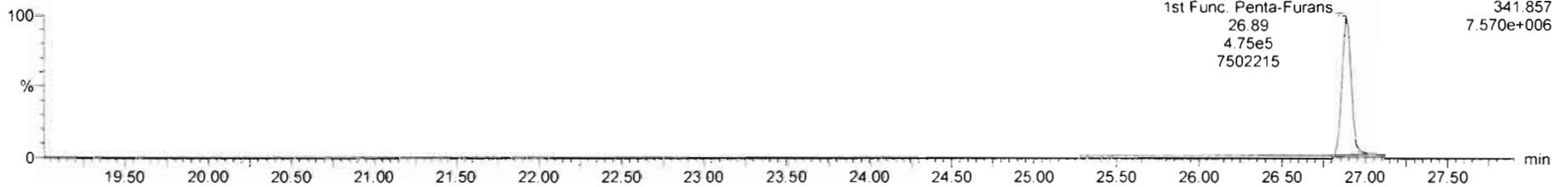
Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200211R2_1

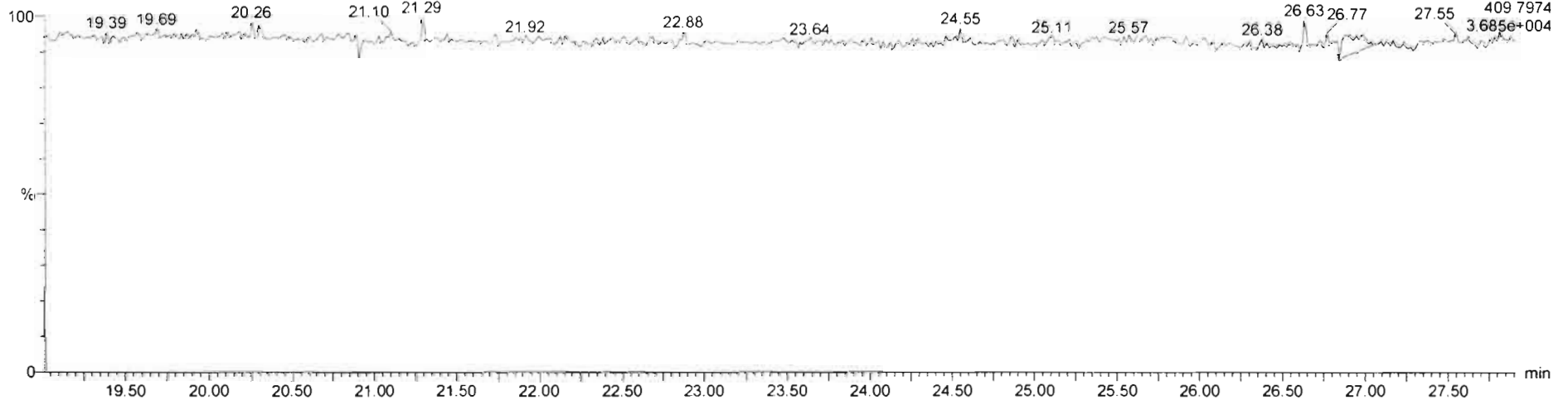


200211R2_1



DPE6

200211R2_1

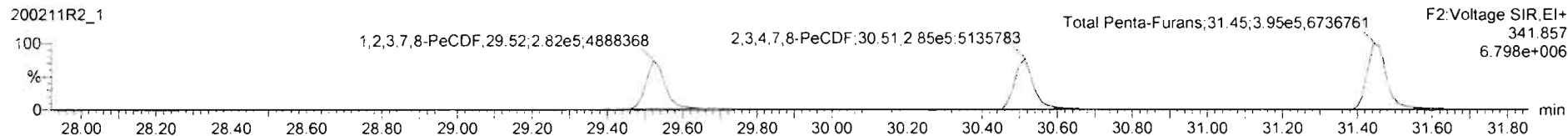
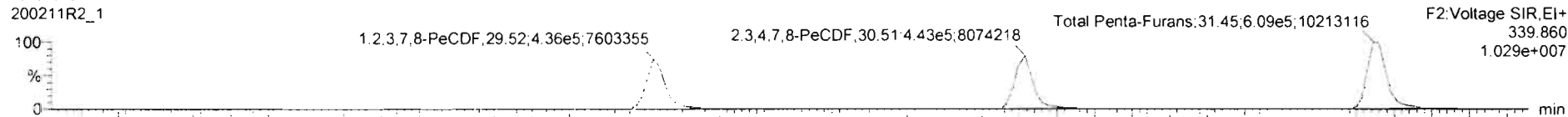


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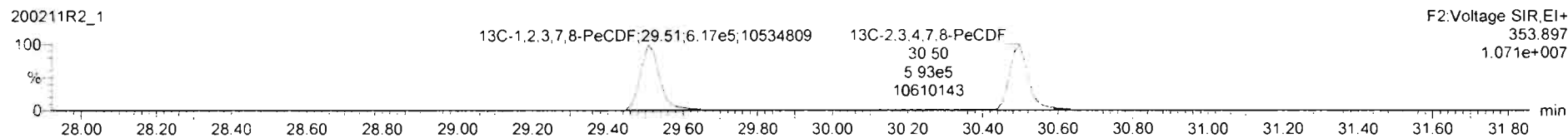
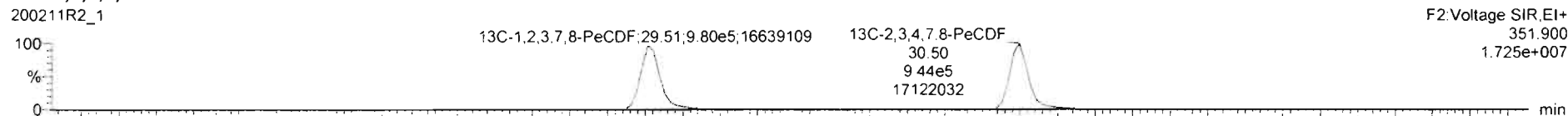
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Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

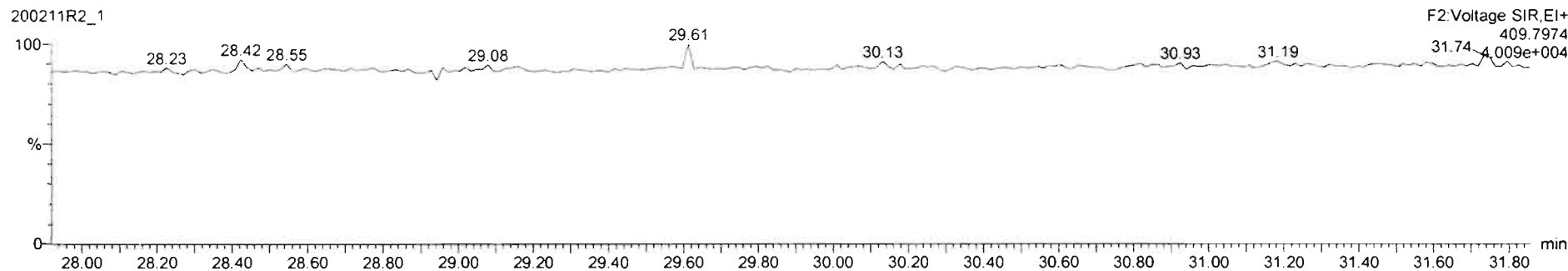
1,2,3,7,8-PeCDF



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



DPE2



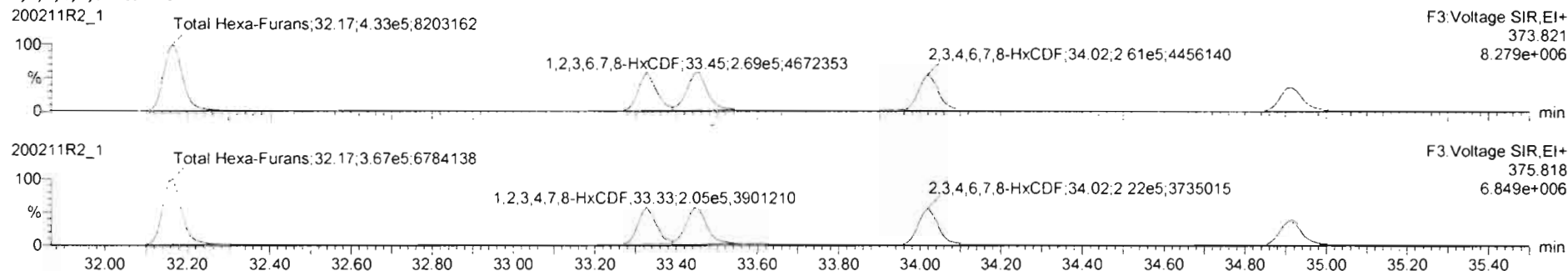
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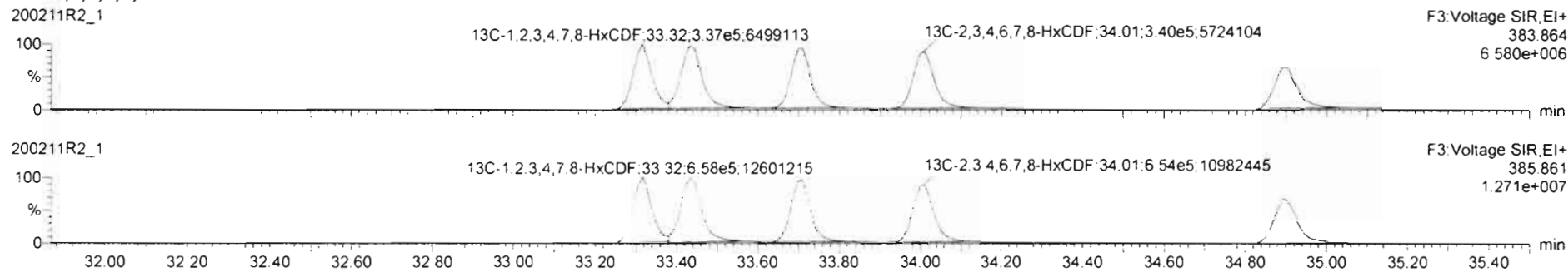
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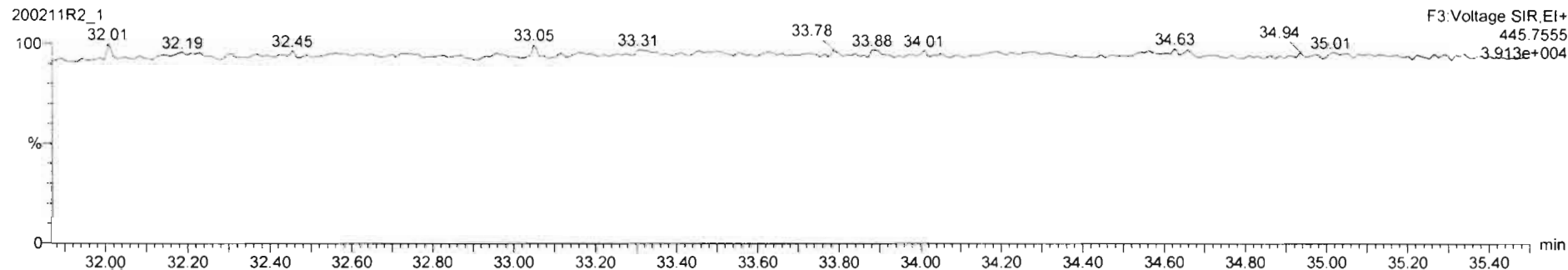
1,2,3,4,7,8-HxCDF



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



DPE3



Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 11:33:12 Pacific Standard Time

Printed: Wednesday, February 12, 2020 11:33:23 Pacific Standard Time

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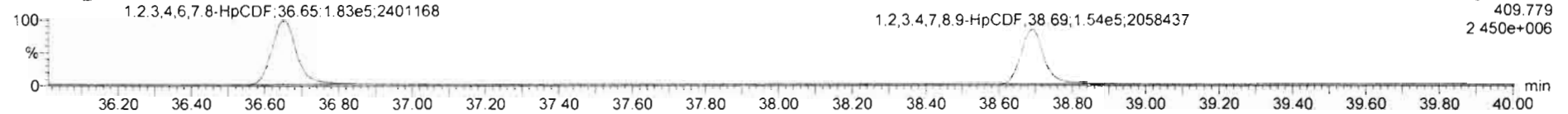
1,2,3,4,6,7,8-HpCDF

200211R2_1



F4:Voltage SIR,EI+
407.782
2.407e+006

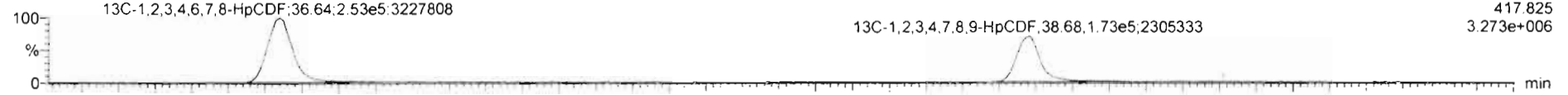
200211R2_1



F4:Voltage SIR,EI+
409.779
2.450e+006

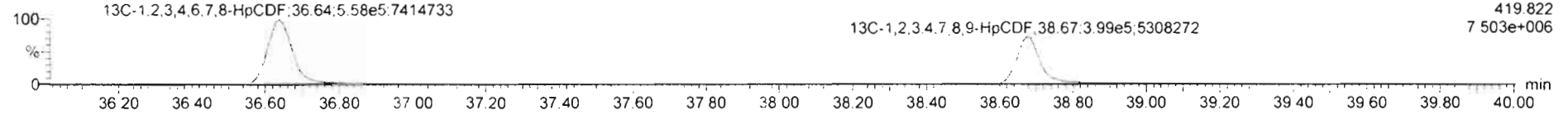
13C-1,2,3,4,6,7,8-HpCDF

200211R2_1



F4:Voltage SIR,EI+
417.825
3.273e+006

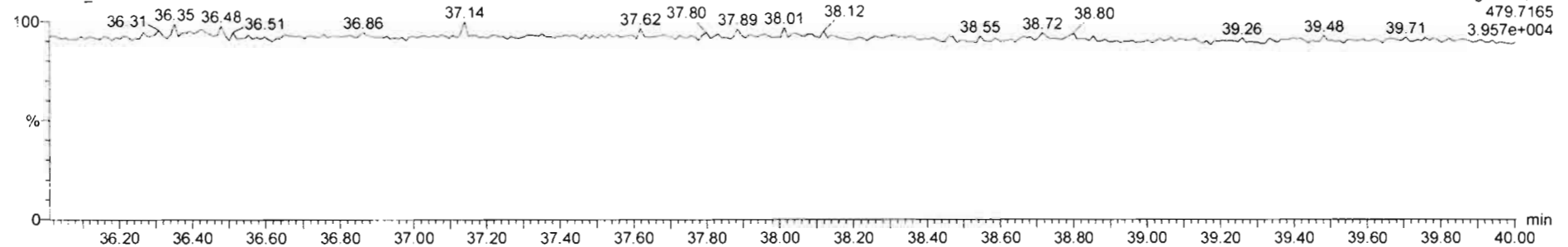
200211R2_1



F4:Voltage SIR,EI+
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7.503e+006

DPE4

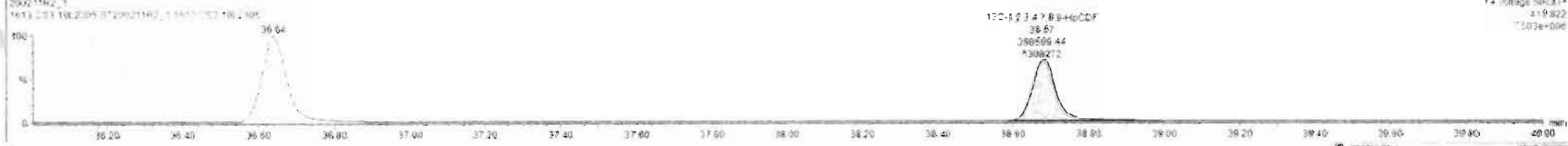
200211R2_1



F4:Voltage SIR,EI+
479.7165
3.957e+004

200211R2_1 - ST200211R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	nly	DRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
11	12.3.4.7.8-HxCDF	4.45e5	9.95e5	1.24	1.17	NO	0.9827	33.32	33.33	NO	1.000	1.000	51.6	104	NO
12	12.3.6.7.8-HxCDF	4.98e5	1.11e6	1.24	1.18	NO	0.9414	33.44	33.46	NO	1.000	1.001	53.3	107	NO
13	12.3.4.6.7.8-HxCDF	4.83e5	9.93e5	1.24	1.18	NO	0.9982	34.04	34.02	NO	1.001	1.000	54.1	108	NO
14	12.3.7.8.9-HxCDF	3.59e5	8.16e5	1.24	1.18	NO	0.9578	34.89	34.91	NO	1.000	1.001	51.3	102	NO
15	12.3.4.6.7.8-HpCDF	3.81e5	8.11e5	1.04	0.97	NO	0.9511	36.68	36.65	NO	1.001	1.000	52.3	105	NO
16	12.3.4.7.8.9-HpCDF	2.90e5	5.71e5	1.04	0.98	NO	0.9799	38.68	38.69	NO	1.000	1.000	51.8	104	NO
17	OCDF	5.62e5	1.36e6	0.88	0.88	NO	0.9055	41.28	41.29	NO	1.000	1.000	103	102	NO
18	17C-2,3,7,8-TCDD	1.41e6	1.22e6	0.77	0.79	NO	1.1985	25.75	25.78	NO	1.026	1.026	96.9	96.5	NO
19	17C-1,2,3,7,8-PeCDD	5.64e5	1.22e6	0.63	0.65	NO	0.9667	30.51	30.82	NO	1.215	1.226	83.6	83.8	NO
20	17C-1,2,3,4,7,8-HxCDD	7.49e5	1.00e6	1.24	1.28	NO	0.9735	34.18	34.18	NO	1.014	1.014	85.6	85.6	NO



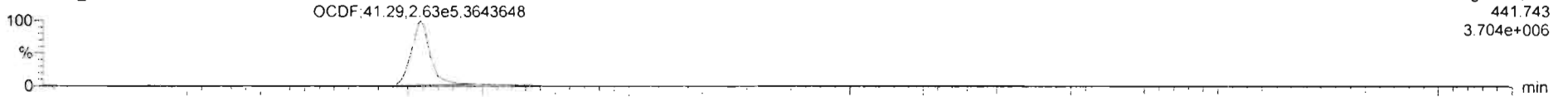
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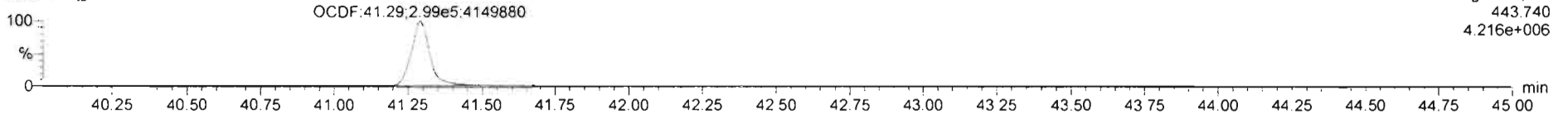
Name: 200211R2_1, Date: 11-Feb-2020, Time: 15:56:15, ID: ST200211R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDF

200211R2_1



200211R2_1

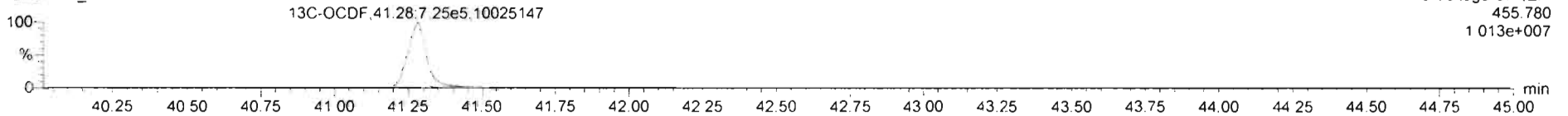


13C-OCDF

200211R2_1

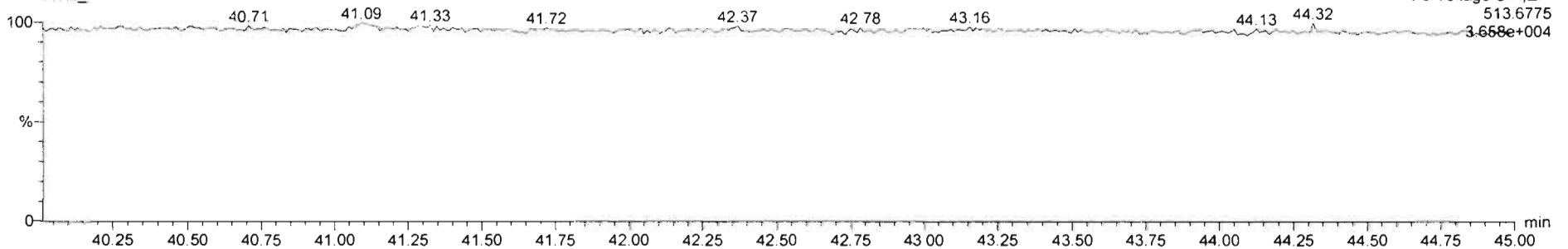


200211R2_1



DPE5

200211R2_1

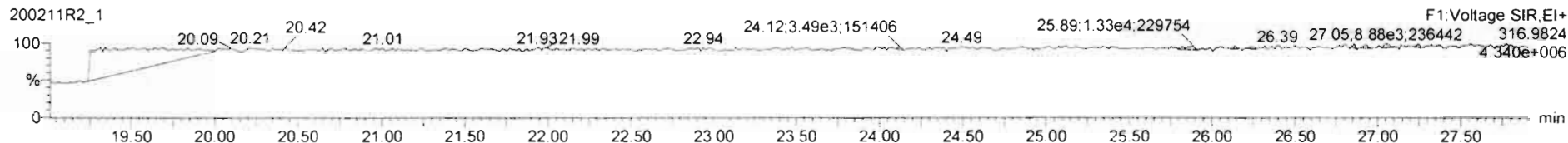


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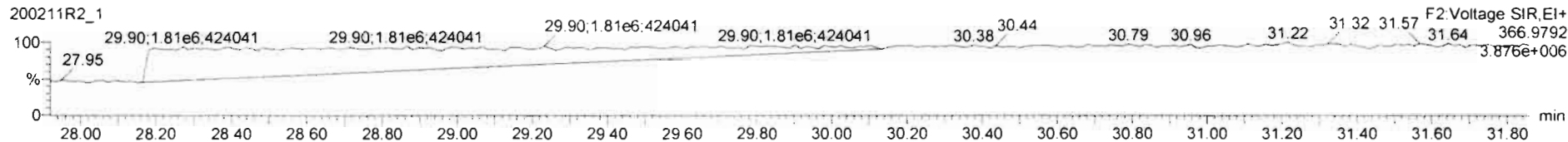
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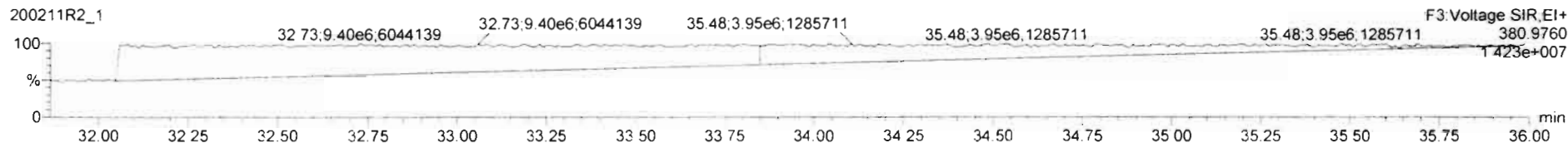
PFK1



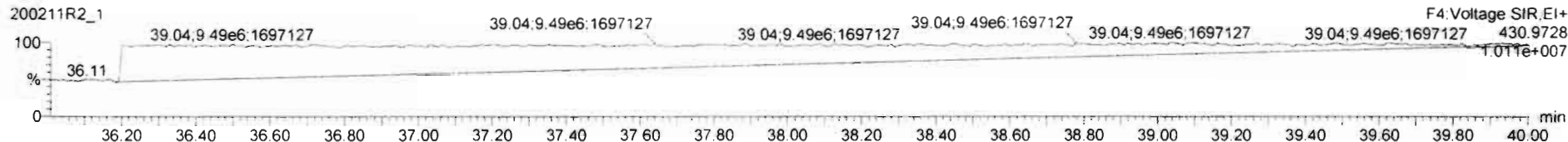
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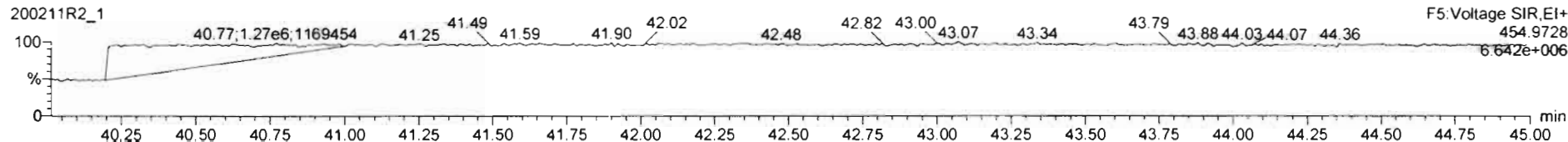
PFK3



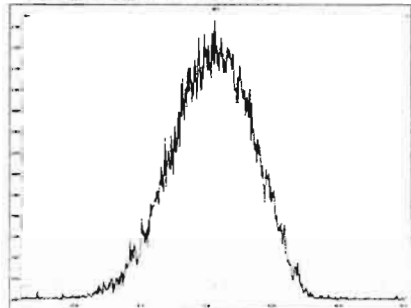
PFK4



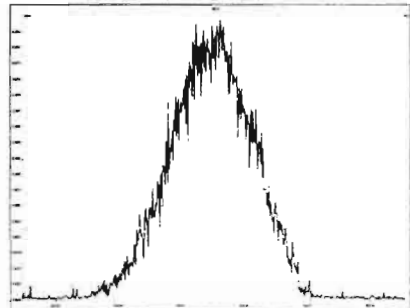
PFK5



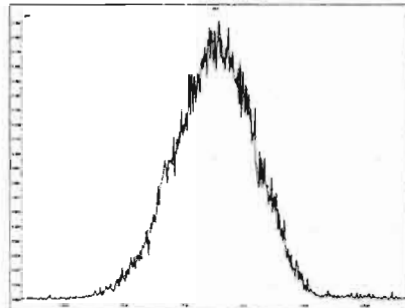
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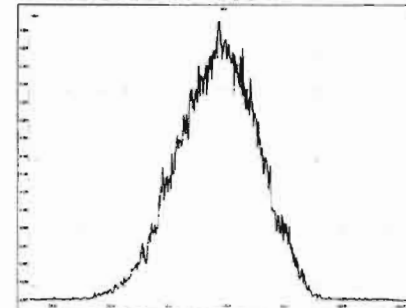
M 304.9824 R 10461



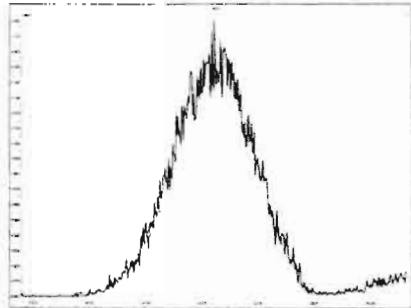
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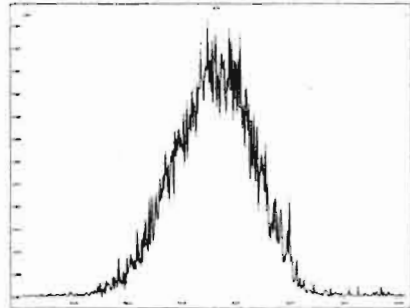
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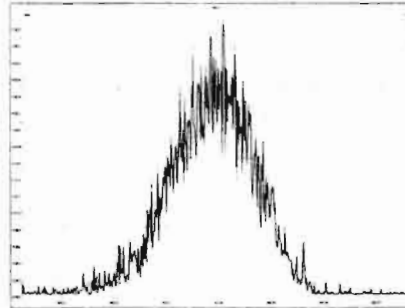
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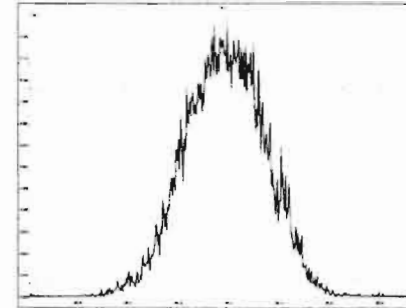
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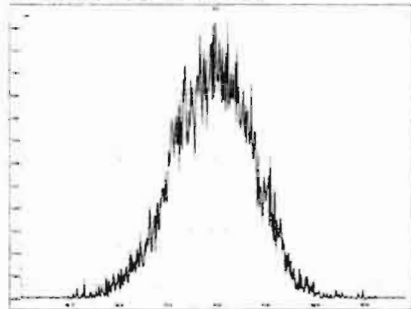
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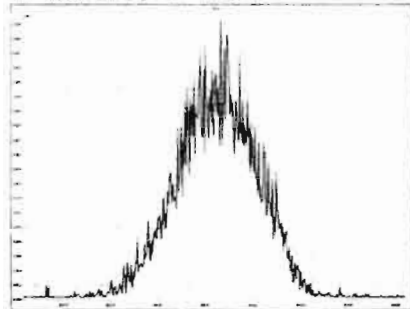
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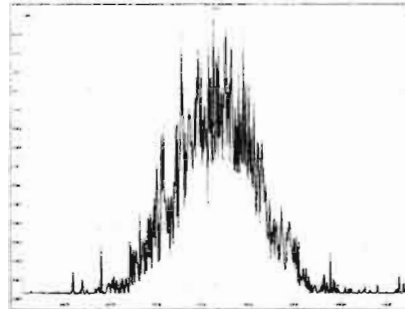
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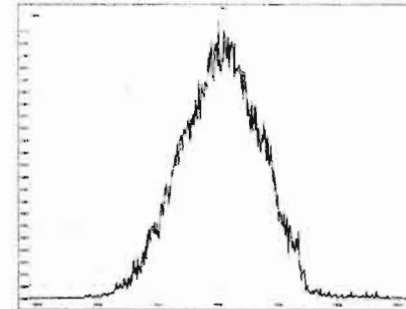
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M 416.9760 R 10504

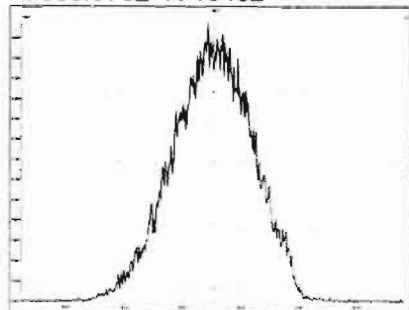


M 318.9792 R 10572

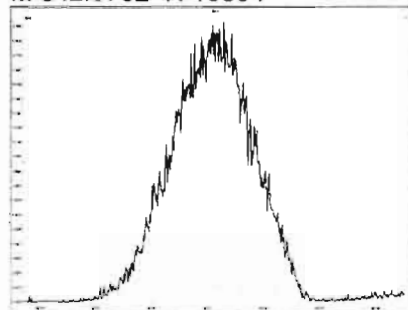


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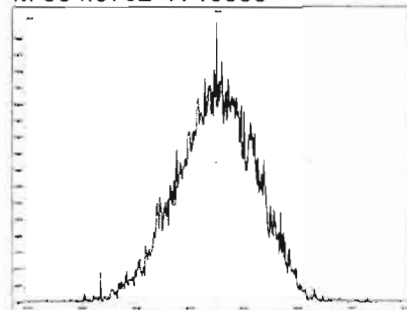
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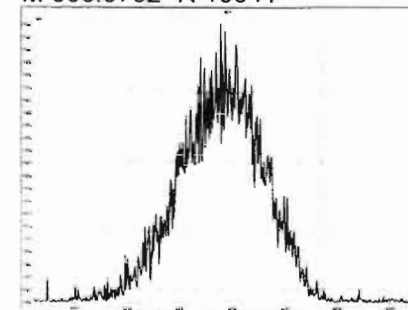
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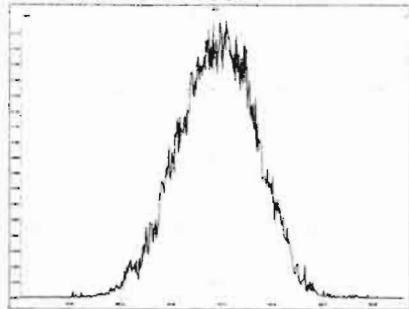
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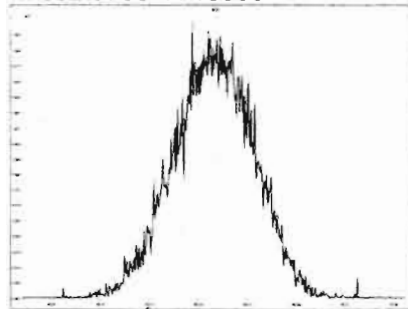
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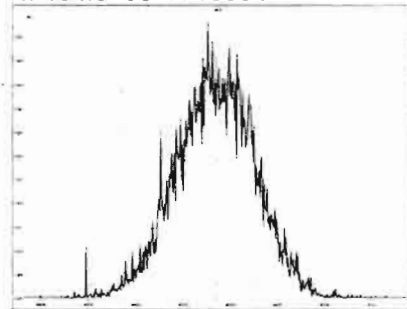
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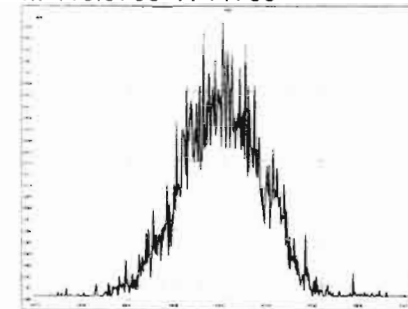
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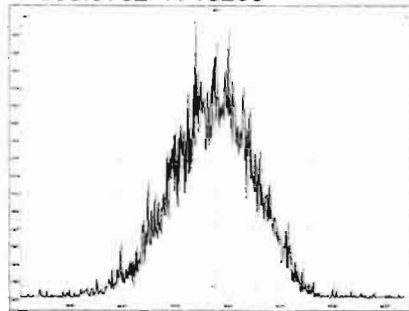
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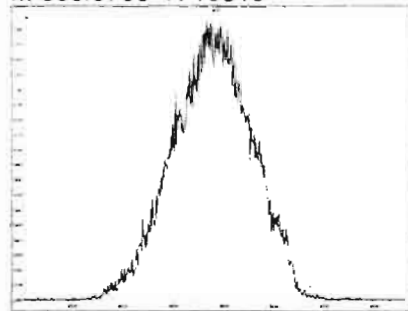
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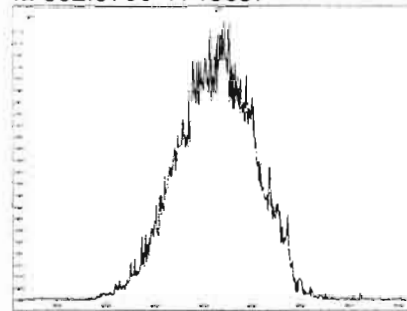
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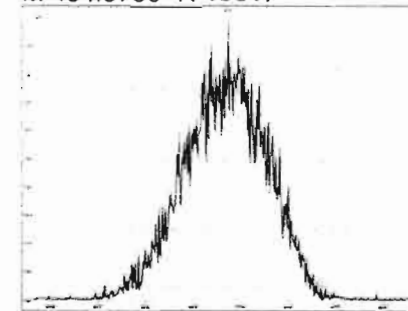
M 380.9760 R 10615



M 392.9760 R 10857

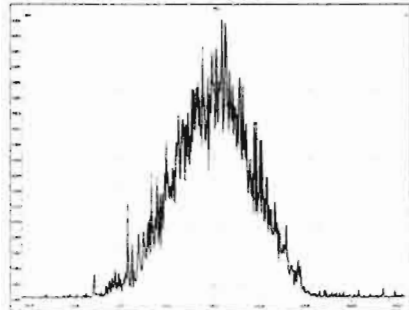


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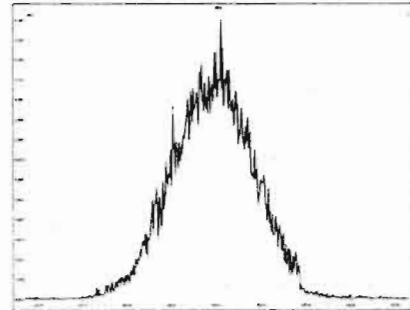


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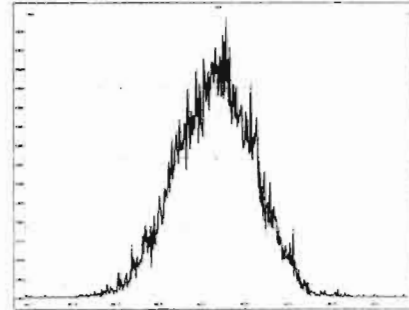
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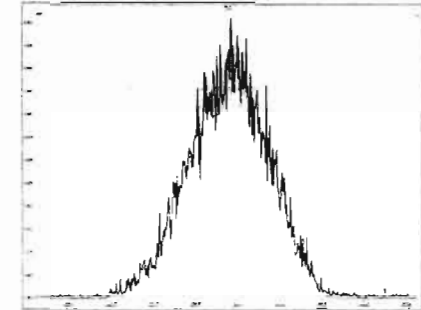
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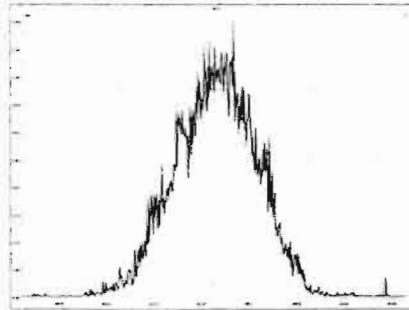
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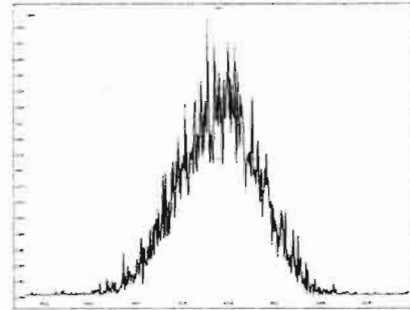
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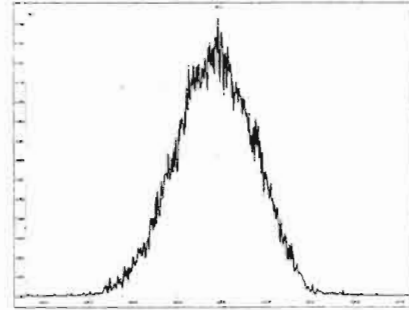
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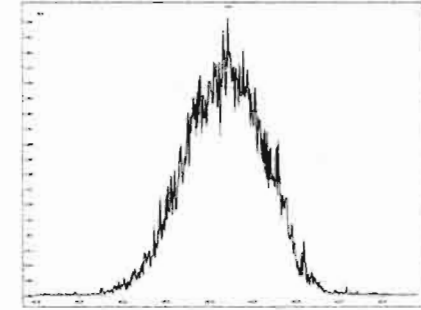
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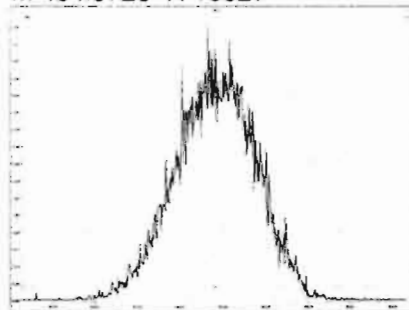
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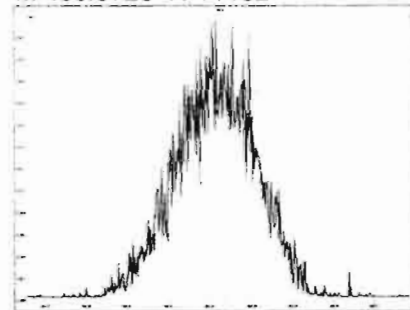
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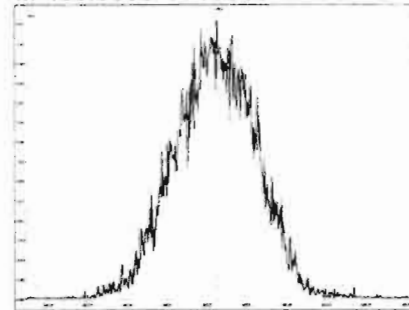
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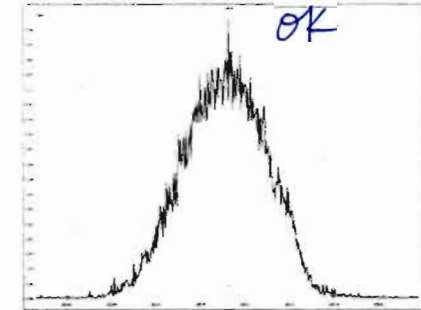
M 466.9728 R 11162



M 480.9696 R 10869

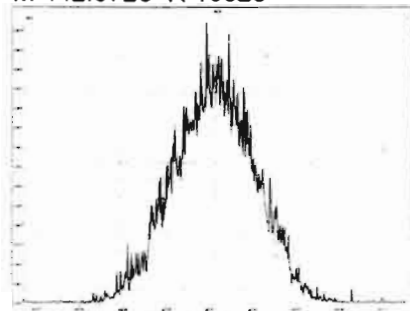


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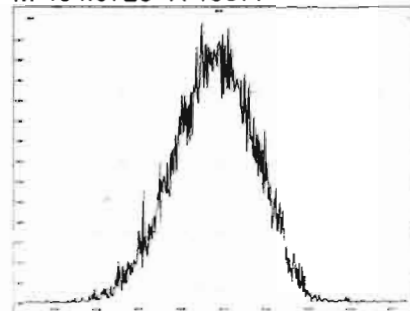


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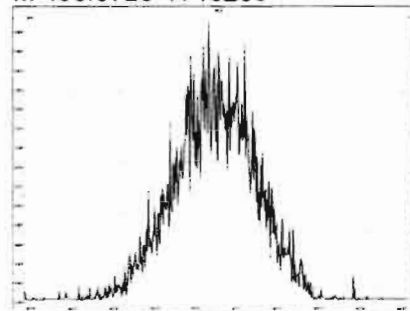
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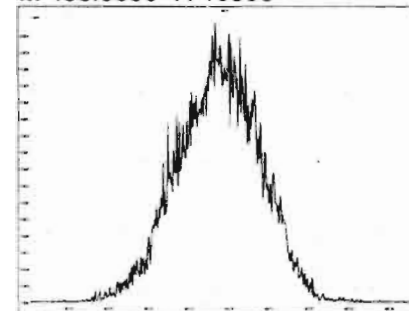
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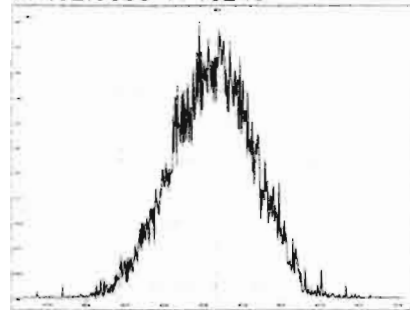
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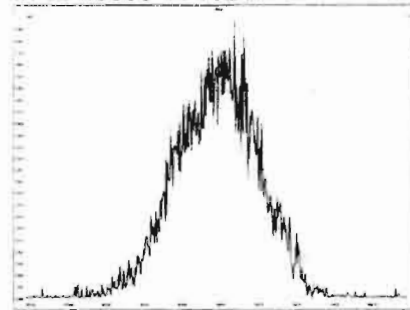
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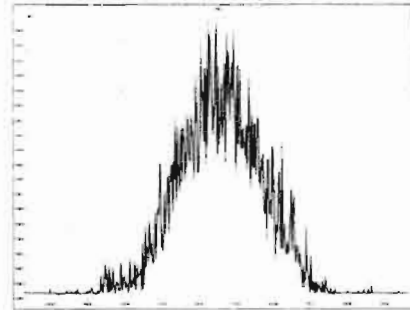
M 492.9696 R 10245



M 504.9696 R 10217



M 516.9697 R 11286



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200212R2-1

Reviewed By: CT 02/13/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
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>GRB</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GRB</u>	

	<u>Beg.</u>	<u>End</u>
Mass resolution ≥	<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 type="checkbox"/> <u>NA</u>
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\200212R2\200212R2-1.qld

Last Altered: Thursday, February 13, 2020 08:14:12 Pacific Standard Time

Printed: Thursday, February 13, 2020 08:17:40 Pacific Standard Time

GRB 02/13/2020

C7 02/13/2020

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200212R2_1, Date: 12-Feb-2020, Time: 14:05:29, ID: ST200212R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	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	1.50e5	1.40e6	0.79	NO	0.988	25.78	25.76	NO	1.001	1.001	10.871	109	NO
2	2 1,2,3,7,8-PeCDD	5.02e5	9.96e5	0.64	NO	0.972	30.81	30.80	NO	1.001	1.000	51.872	104	NO
3	3 1,2,3,4,7,8-HxCDD	4.79e5	9.04e5	1.25	NO	1.07	34.17	34.17	NO	1.000	1.000	49.505	99.0	NO
4	4 1,2,3,6,7,8-HxCDD	5.04e5	1.11e6	1.24	NO	0.921	34.26	34.27	NO	1.000	1.000	49.056	98.1	NO
5	5 1,2,3,7,8,9-HxCDD	4.44e5	1.04e6	1.22	NO	0.918	34.56	34.55	NO	1.001	1.001	46.469	92.9	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.59e5	7.71e5	1.02	NO	0.923	38.08	38.08	NO	1.000	1.000	50.492	101	NO
7	7 OCDD	6.74e5	1.37e6	0.87	NO	0.975	41.10	41.11	NO	1.000	1.000	101.14	101	NO
8	8 2,3,7,8-TCDF	1.84e5	2.21e6	0.77	NO	0.802	24.85	24.85	NO	1.001	1.001	10.374	104	NO
9	9 1,2,3,7,8-PeCDF	8.49e5	1.75e6	1.57	NO	0.907	29.51	29.51	NO	1.001	1.001	53.382	107	NO
10	10 2,3,4,7,8-PeCDF	8.54e5	1.71e6	1.54	NO	0.952	30.50	30.48	NO	1.001	1.000	52.476	105	NO
11	11 1,2,3,4,7,8-HxCDF	5.75e5	1.23e6	1.21	NO	0.862	33.29	33.31	NO	1.000	1.000	54.270	109	NO
12	12 1,2,3,6,7,8-HxCDF	6.75e5	1.41e6	1.22	NO	0.841	33.42	33.42	NO	1.000	1.000	56.726	113	NO
13	13 2,3,4,6,7,8-HxCDF	6.34e5	1.27e6	1.18	NO	0.898	34.02	34.00	NO	1.001	1.000	55.586	111	NO
14	14 1,2,3,7,8,9-HxCDF	4.69e5	1.01e6	1.21	NO	0.858	34.88	34.89	NO	1.000	1.000	54.183	108	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.29e5	9.19e5	1.02	NO	0.851	36.67	36.64	NO	1.001	1.000	54.905	110	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.41e5	6.23e5	1.00	NO	0.980	38.67	38.68	NO	1.000	1.000	55.908	112	NO
17	17 OCDF	7.15e5	1.67e6	0.88	NO	0.806	41.28	41.29	NO	1.000	1.000	106.13	106	NO
18	18 13C-2,3,7,8-TCDD	1.40e6	1.20e6	0.82	NO	1.20	25.74	25.75	NO	1.026	1.026	97.010	97.0	NO
19	19 13C-1,2,3,7,8-PeCDD	9.96e5	1.20e6	0.64	NO	0.967	30.49	30.79	NO	1.215	1.227	85.814	85.8	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.04e5	1.21e6	1.28	NO	0.874	34.16	34.16	NO	1.014	1.014	85.338	85.3	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.11e6	1.21e6	1.26	NO	1.05	34.26	34.26	NO	1.017	1.017	87.958	88.0	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.04e6	1.21e6	1.25	NO	0.974	34.56	34.53	NO	1.026	1.025	88.223	88.2	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.71e5	1.21e6	1.06	NO	0.747	38.14	38.07	NO	1.132	1.130	85.152	85.2	NO
24	24 13C-OCDD	1.37e6	1.21e6	0.90	NO	0.707	41.03	41.10	NO	1.218	1.220	159.70	79.9	NO
25	25 13C-2,3,7,8-TCDF	2.21e6	2.07e6	0.80	NO	1.07	24.92	24.82	NO	0.993	0.989	100.05	100	NO
26	26 13C-1,2,3,7,8-PeCDF	1.75e6	2.07e6	1.61	NO	1.00	29.26	29.49	NO	1.166	1.175	84.454	84.5	NO
27	27 13C-2,3,4,7,8-PeCDF	1.71e6	2.07e6	1.60	NO	0.962	30.48	30.47	NO	1.215	1.214	85.839	85.8	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	1.21e6	0.51	NO	1.05	33.28	33.29	NO	0.988	0.988	96.700	96.7	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.41e6	1.21e6	0.52	NO	1.19	33.39	33.41	NO	0.991	0.992	98.109	98.1	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.27e6	1.21e6	0.51	NO	1.07	34.00	33.99	NO	1.009	1.009	98.297	98.3	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.01e6	1.21e6	0.51	NO	0.922	34.90	34.88	NO	1.036	1.035	90.266	90.3	NO

Dataset: U:\VG12.PRO\Results\200212R2\200212R2-1.qld

Last Altered: Thursday, February 13, 2020 08:14:12 Pacific Standard Time

Printed: Thursday, February 13, 2020 08:17:40 Pacific Standard Time

Name: 200212R2_1, Date: 12-Feb-2020, Time: 14:05:29, ID: ST200212R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.19e5	1.21e6	0.44	NO	0.767	36.65	36.63	NO	1.088	1.087	98.857	98.9	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.23e5	1.21e6	0.45	NO	0.552	38.67	38.67	NO	1.148	1.148	93.097	93.1	NO
34	34 13C-OCDF	1.67e6	1.21e6	0.87	NO	0.789	41.27	41.28	NO	1.225	1.225	174.85	87.4	NO
35	35 37Cl-2,3,7,8-TCDD	1.41e5	1.20e6			1.18	25.77	25.76	NO	1.027	1.027	9.9690	99.7	NO
36	36 13C-1,2,3,4-TCDD	1.20e6	1.20e6	0.83	NO	1.00	25.11	25.09	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.07e6	2.07e6	0.79	NO	1.00	23.37	23.35	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.21e6	1.21e6	0.51	NO	1.00	33.71	33.69	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		1.40e6			0.988	24.62		NO	0.000		95.063		NO
40	40 Total Penta-Dioxins		9.96e5			0.972	29.96		NO	0.000		241.01		NO
41	41 Total Hexa-Dioxins		0.00e0			0.921	33.63		NO	0.000		250.68		NO
42	42 Total Hepta-Dioxins		7.71e5			0.923	37.64		NO	0.000		137.36		NO
43	43 Total Tetra-Furans		2.21e6			0.802	23.61		NO	0.000		51.211		NO
44	44 1st Func. Penta-Furans		0.00e0			0.907	27.09		NO	0.000		73.614		NO
45	45 Total Penta-Furans		0.00e0			0.907	29.27		NO	0.000		186.48		NO
46	46 Total Hexa-Furans		0.00e0			0.898	33.56		NO	0.000		317.98		NO
47	47 Total Hepta-Furans		0.00e0			0.851	37.83		NO	0.000		111.39		NO

Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 15:02:16 Pacific Standard Time

Printed: Wednesday, February 12, 2020 15:02:44 Pacific Standard Time

Method: Untitled 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200212R2_1, Date: 12-Feb-2020, Time: 14:05:29, ID: ST200212R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.68
2	2 1,2,8,9-TCDD (Last)	26.74
3	3 1,2,4,7,9-PeCDD (First)	28.56
4	4 1,2,3,8,9-PeCDD (Last)	31.19
5	5 1,2,4,6,7,9-HxCDD (First)	32.70
6	6 1,2,3,7,8,9-HxCDD (Last)	34.55
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.03
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.08
9	9 1,3,6,8-TCDF (First)	19.61
10	10 1,2,8,9-TCDF (Last)	26.89
11	11 1,3,4,6,8-PeCDF (First)	26.87
12	12 1,2,3,8,9-PeCDF (Last)	31.43
13	13 1,2,3,4,6,8-HxCDF (First)	32.14
14	14 1,2,3,7,8,9-HxCDF (Last)	34.89
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.64
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.68

Dataset: Untitled

Last Altered: Thursday, February 13, 2020 08:17:57 Pacific Standard Time

Printed: Thursday, February 13, 2020 08:18:54 Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-02-11-20.mdb 11 Feb 2020 16:47:46

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200212R2_1	ST200212R2_1 1613 CS3 19L2305	12-Feb-20	14:05:29
2	200212R2_2	SOLVENT BLANK	12-Feb-20	14:54:27
3	200212R2_3	1904337-01 PDI-034SC-A-02-03-191022 14.47	12-Feb-20	15:51:33
4	200212R2_4	B0A0040-DUP1 Duplicate 14.56	12-Feb-20	16:37:49
5	200212R2_5	1904337-02 PDI-034SC-A-03-04-191022 14.49	12-Feb-20	17:25:02
6	200212R2_6	1904337-03 PDI-057SC-A-04-05-191023 17.29	12-Feb-20	18:12:10
7	200212R2_7	1904337-04 PDI-057SC-A-05-06-191023 17.1	12-Feb-20	18:59:20
8	200212R2_8	1904337-05 PDI-062SC-A-06-07-191023 15.82	12-Feb-20	19:46:27
9	200212R2_9	1904337-06 PDI-062SC-A-07-08-191023 14.76	12-Feb-20	20:33:44
10	200212R2_10	1903738-06@2X PDI-069SC-B-02-04-191016 ...	12-Feb-20	21:20:52
11	200212R2_11	1903738-05@5X PDI-069SC-B-00-02-191016 ...	12-Feb-20	22:08:01
12	200212R2_12	1903738-08@10X PDI-069SC-B-06-08-19101...	12-Feb-20	22:55:09
13	200212R2_13	1903738-07@10X PDI-069SC-B-04-06-19101...	12-Feb-20	23:42:20
14	200212R2_14	1903738-07@20X PDI-069SC-B-04-06-19101...	13-Feb-20	00:29:29

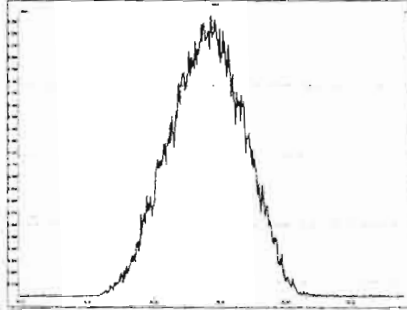
Experiment Calibration Report

MassLynx 4.1 SCN815

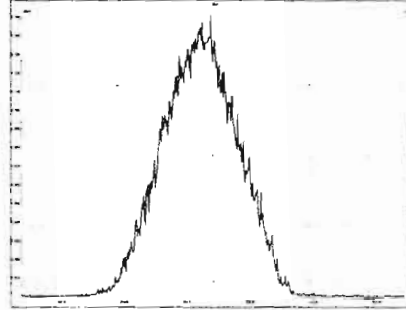
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, February 12, 2020 14:01:56 Pacific Standard Time

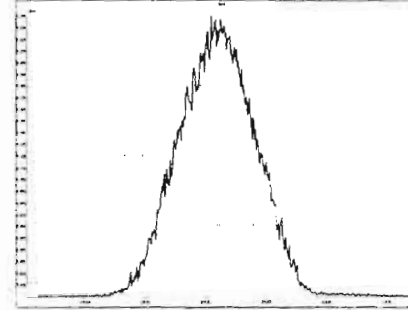
M 292.9824 R 11257



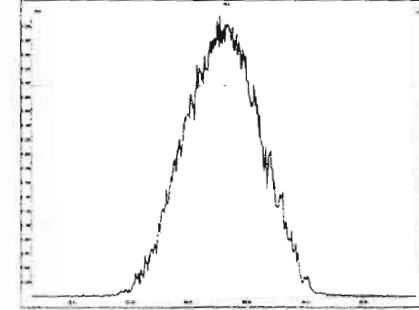
M 304.9824 R 11682



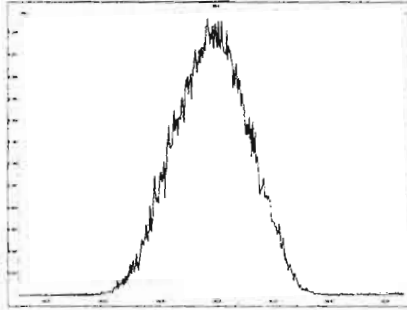
M 318.9792 R 11466



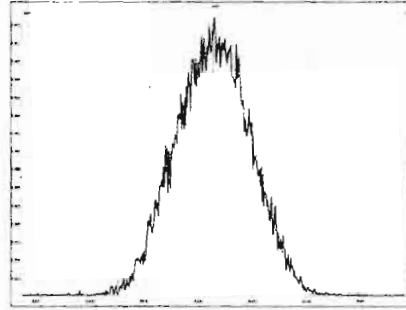
M 330.9792 R 11464



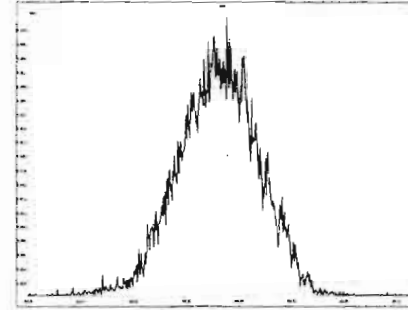
M 342.9792 R 11210



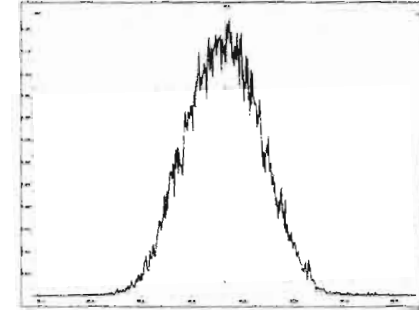
M 354.9792 R 11361



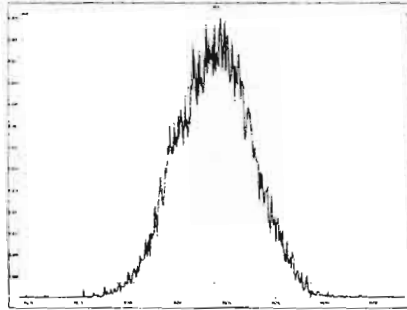
M 366.9792 R 11364



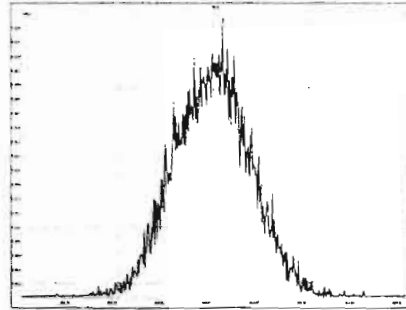
M 380.9760 R 10774



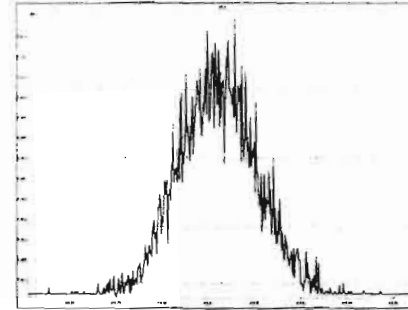
M 392.9760 R 10866



M 404.9760 R 11261



M 416.9760 R 10732



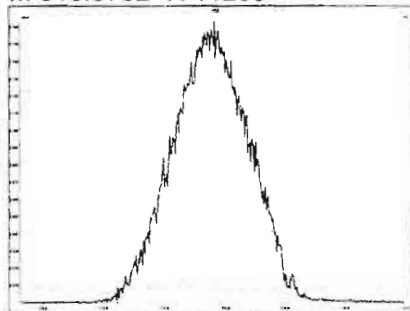
Experiment Calibration Report

MassLynx 4.1 SCN815

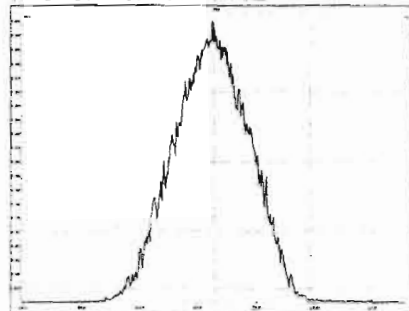
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, February 12, 2020 14:02:31 Pacific Standard Time

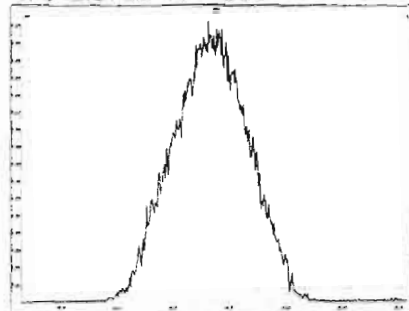
M 318.9792 R 11209



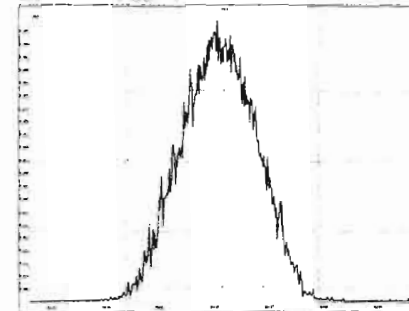
M 330.9792 R 11412



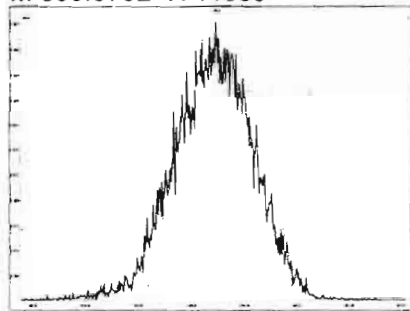
M 342.9792 R 11904



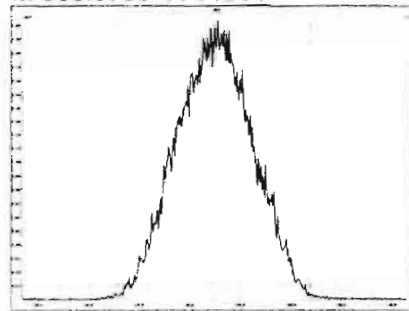
M 354.9792 R 11735



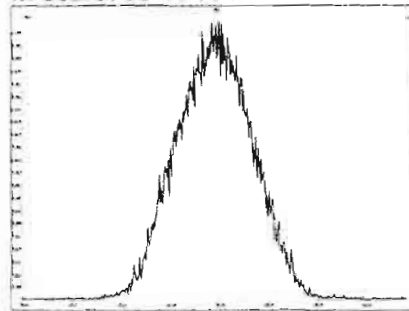
M 366.9792 R 11359



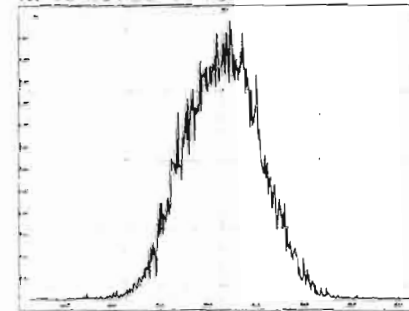
M 380.9760 R 11311



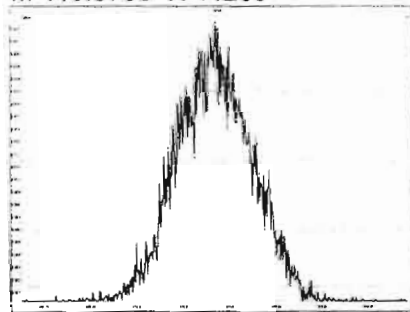
M 392.9760 R 11470



M 404.9760 R 10917



M 416.9760 R 11209



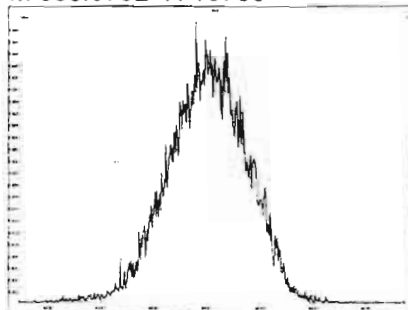
Experiment Calibration Report

MassLynx 4.1 SCN815

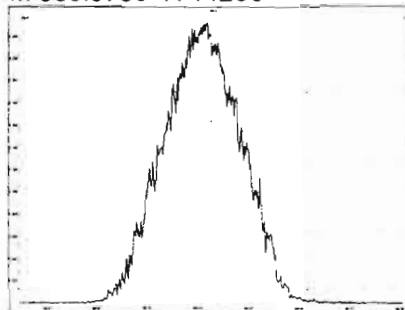
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, February 12, 2020 14:02:56 Pacific Standard Time

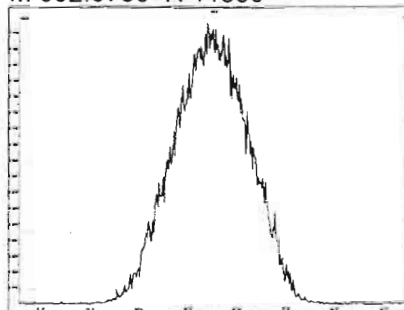
M 366.9792 R 10730



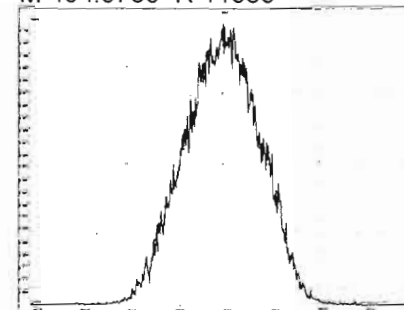
M 380.9760 R 11260



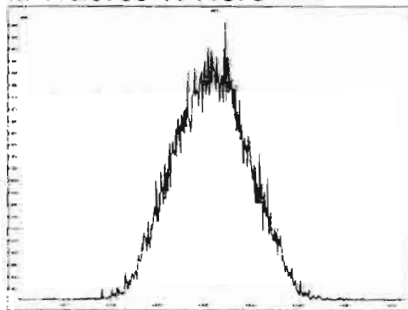
M 392.9760 R 11630



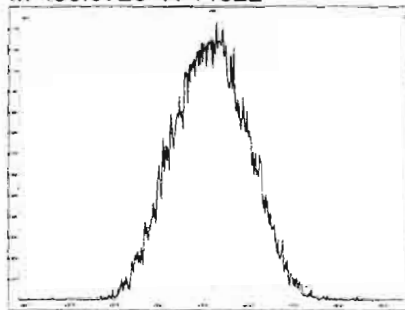
M 404.9760 R 11363



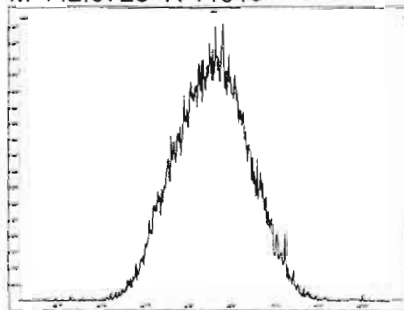
M 416.9760 R 11576



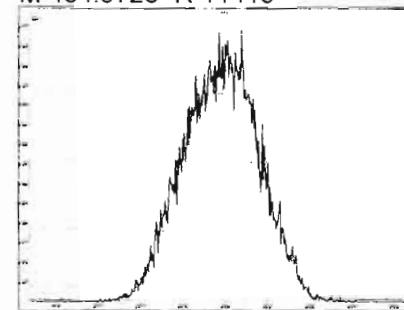
M 430.9728 R 11522



M 442.9728 R 11013



M 454.9728 R 11413



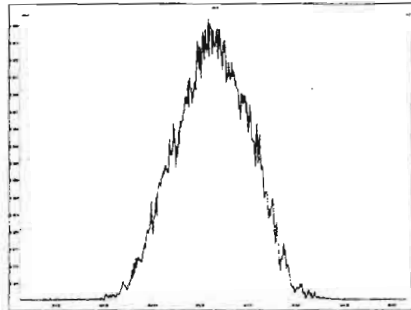
Experiment Calibration Report

MassLynx 4.1 SCN815

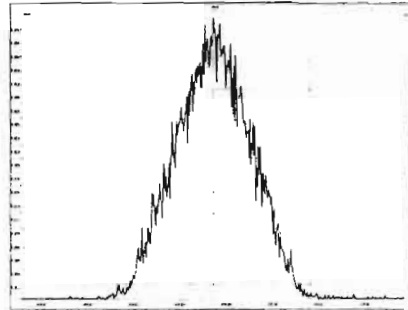
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, February 12, 2020 14:03:30 Pacific Standard Time

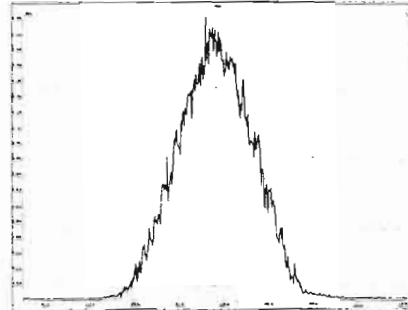
M 404.9760 R 11849



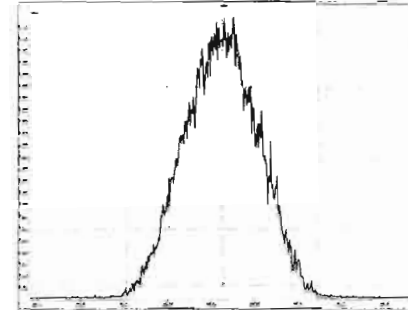
M 416.9760 R 11681



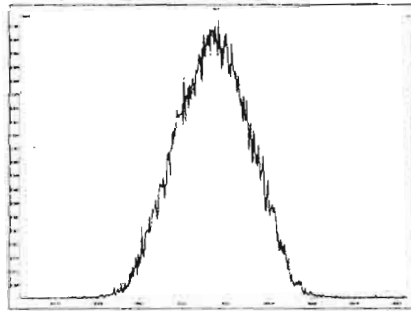
M 430.9728 R 11417



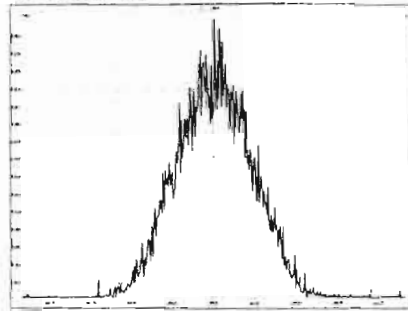
M 442.9728 R 11416



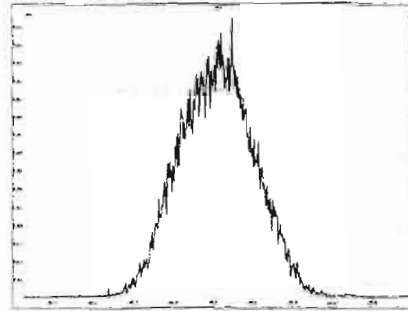
M 454.9728 R 11795



M 466.9728 R 10918



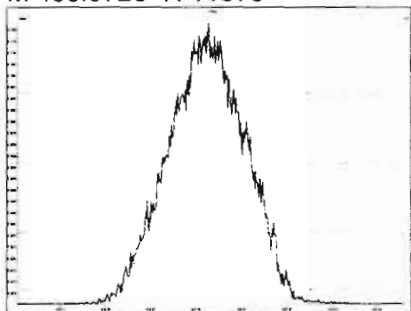
M 480.9696 R 11464



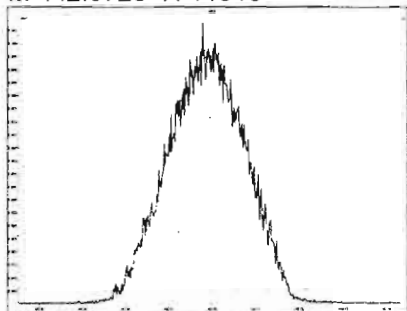
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Printed: Wednesday, February 12, 2020 14:03:59 Pacific Standard Time

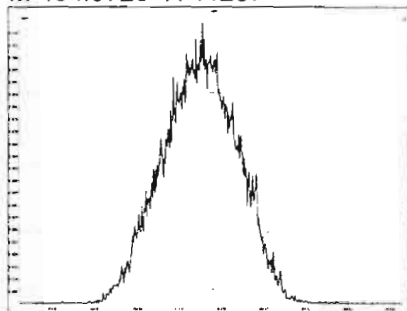
M 430.9728 R 11573



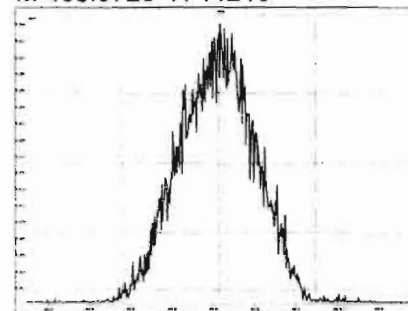
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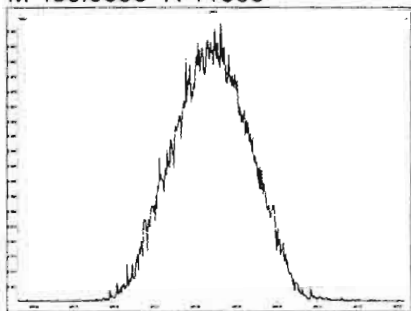
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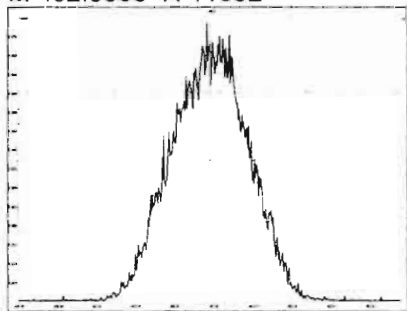
M 466.9728 R 11210



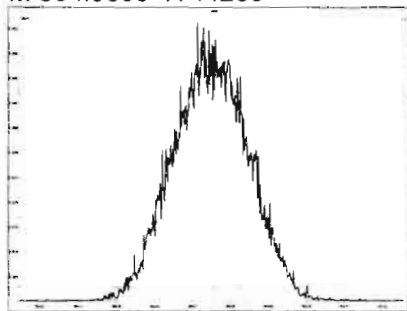
M 480.9696 R 11365



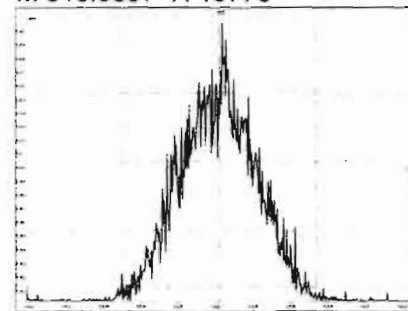
M 492.9696 R 11062



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M 516.9697 R 10773



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GPR 02/13/2020

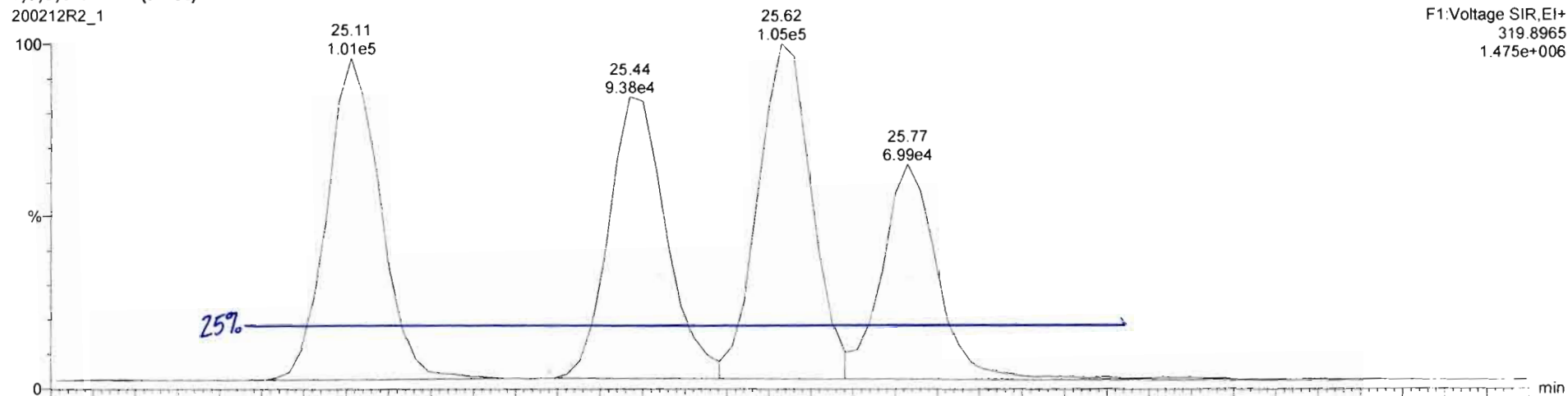
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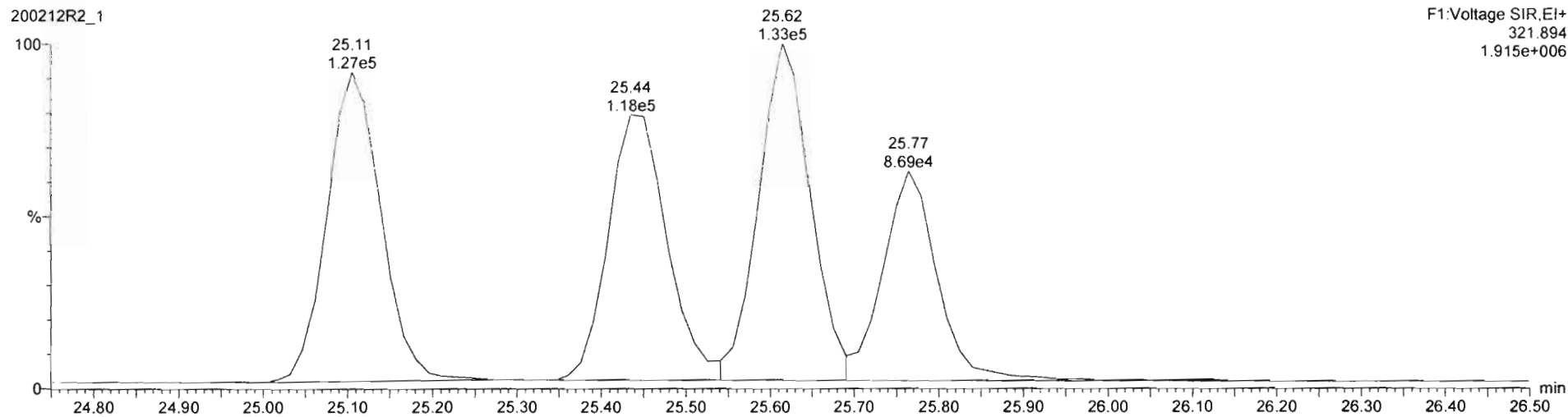
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1,3,6,8-TCDD (First)

200212R2_1



200212R2_1



Dataset: Untitled

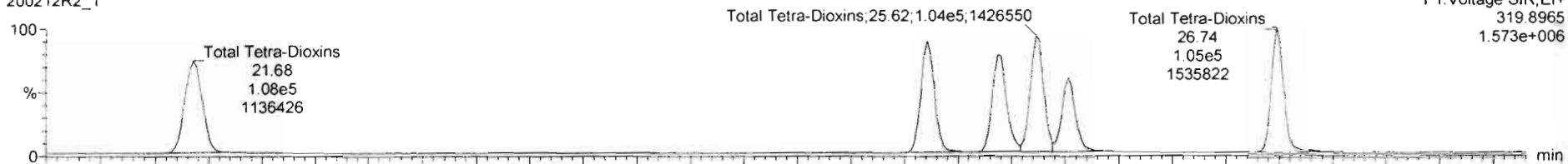
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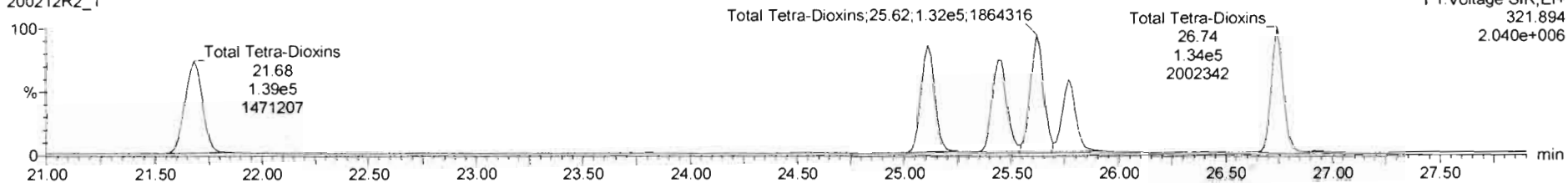
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2,3,7,8-TCDD

200212R2_1

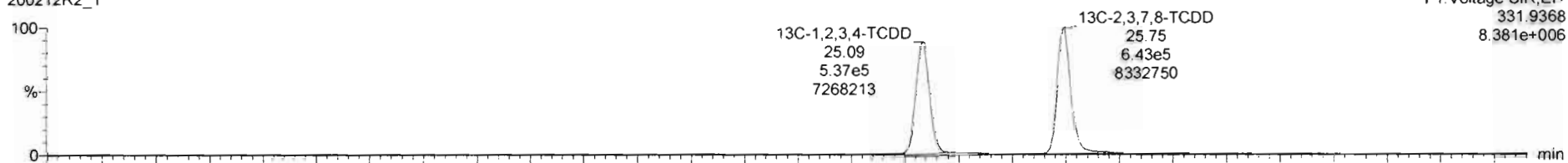


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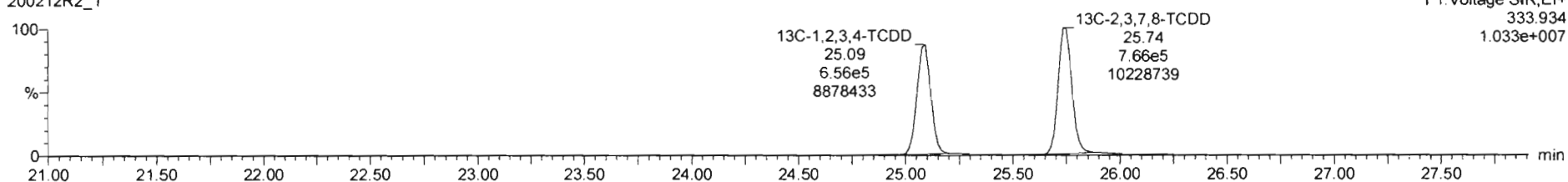


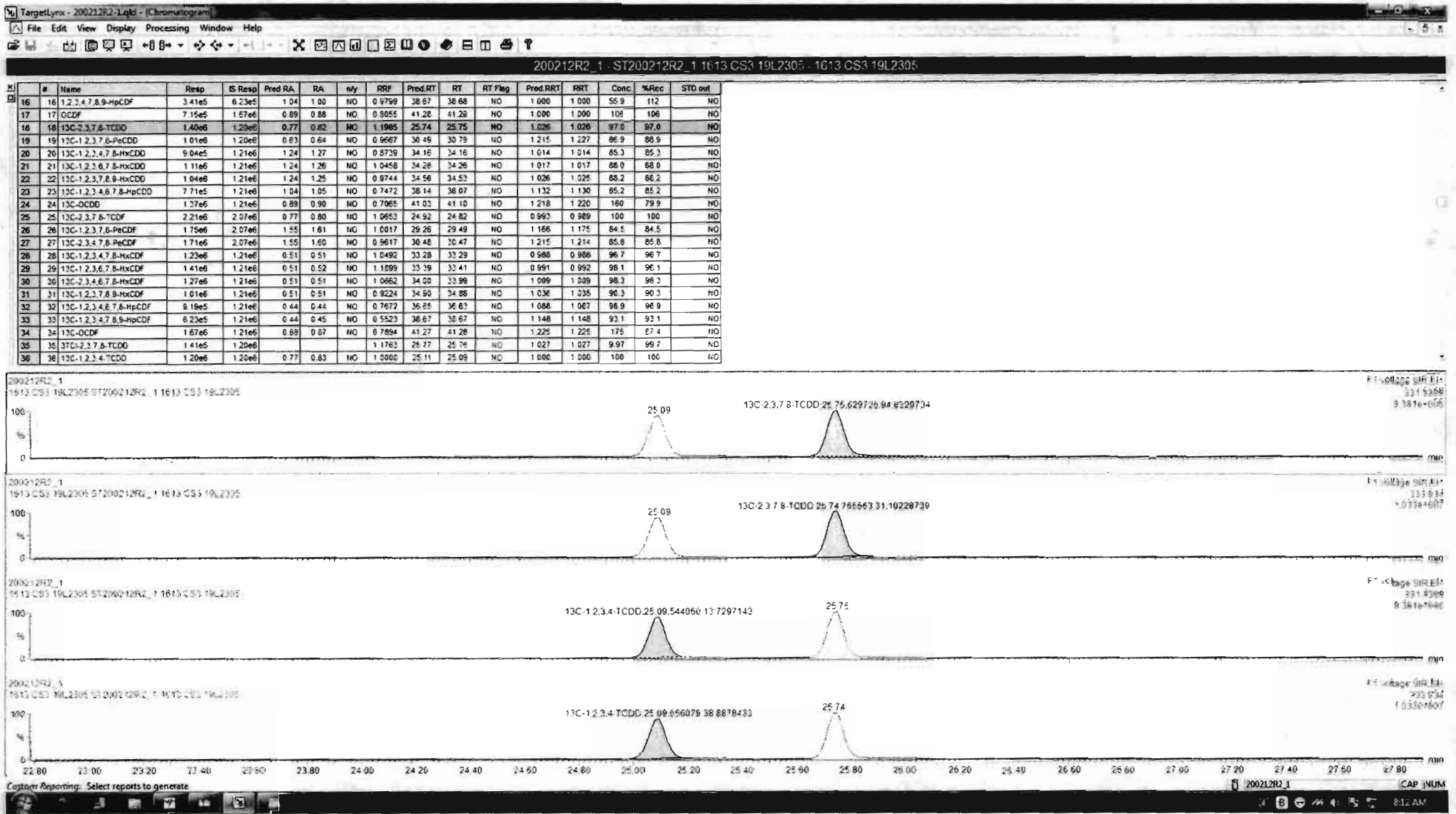
13C-2,3,7,8-TCDD

200212R2_1



200212R2_1





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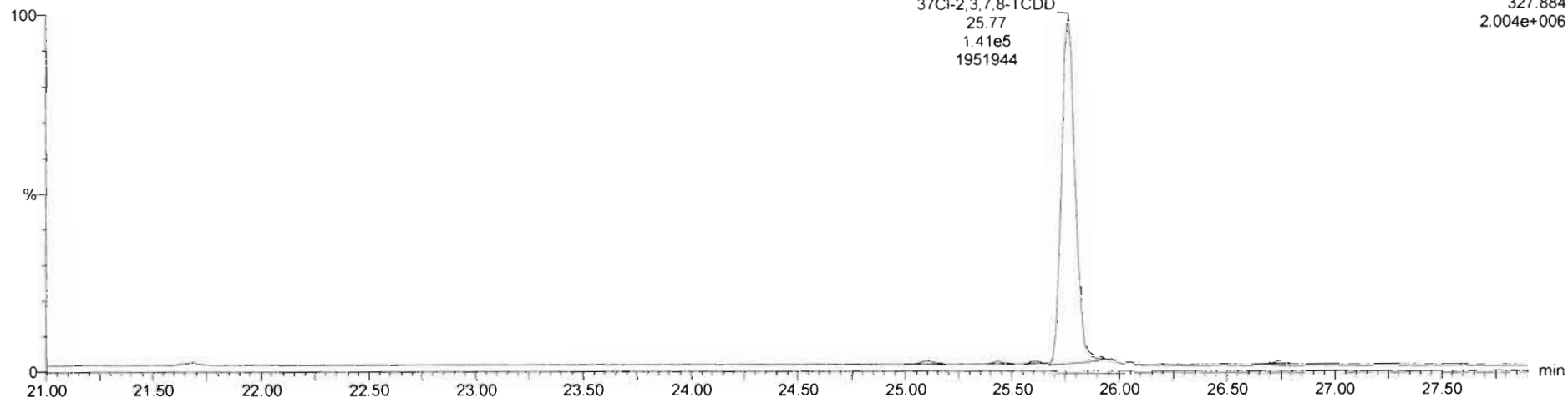
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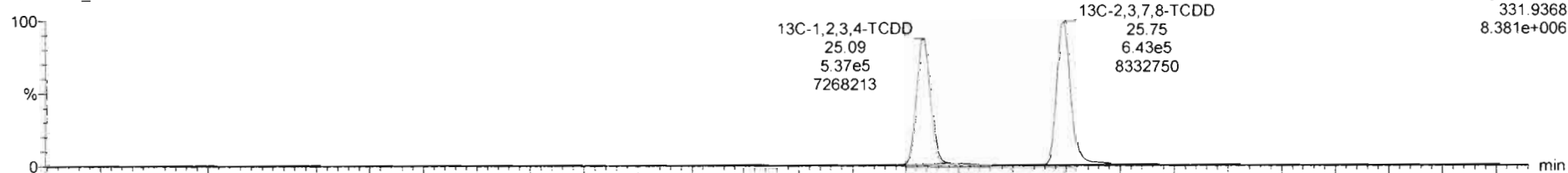
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200212R2_1

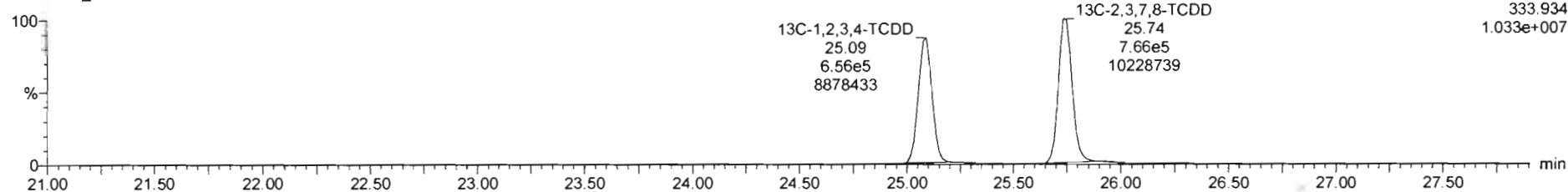


13C-1,2,3,4-TCDD

200212R2_1



200212R2_1



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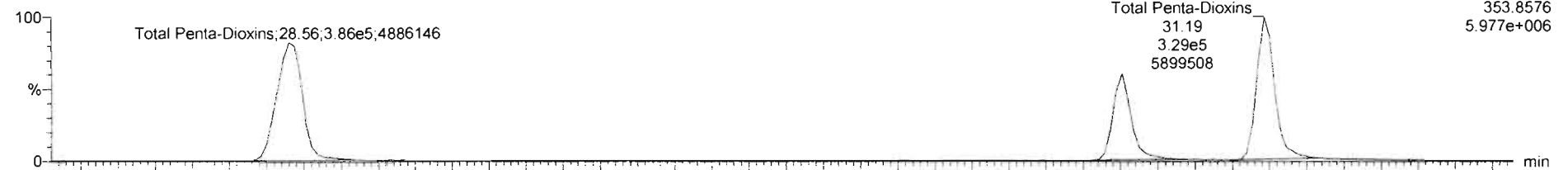
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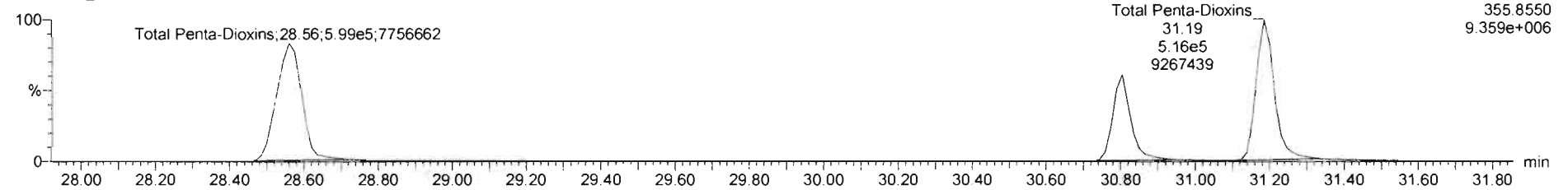
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1,2,3,7,8-PeCDD

200212R2_1

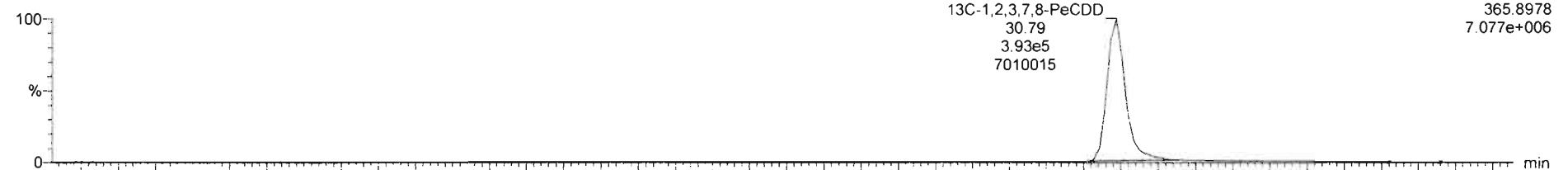


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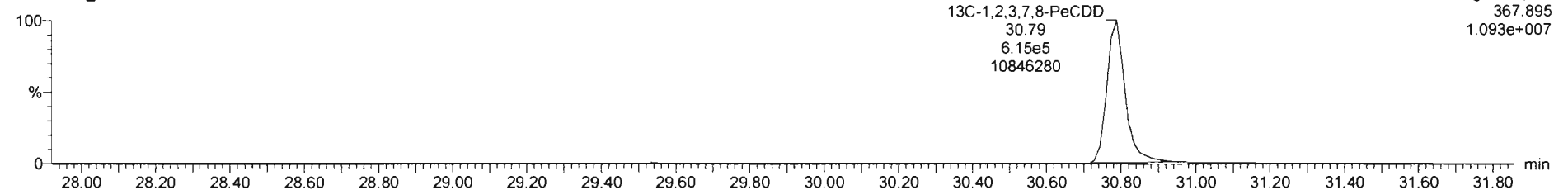


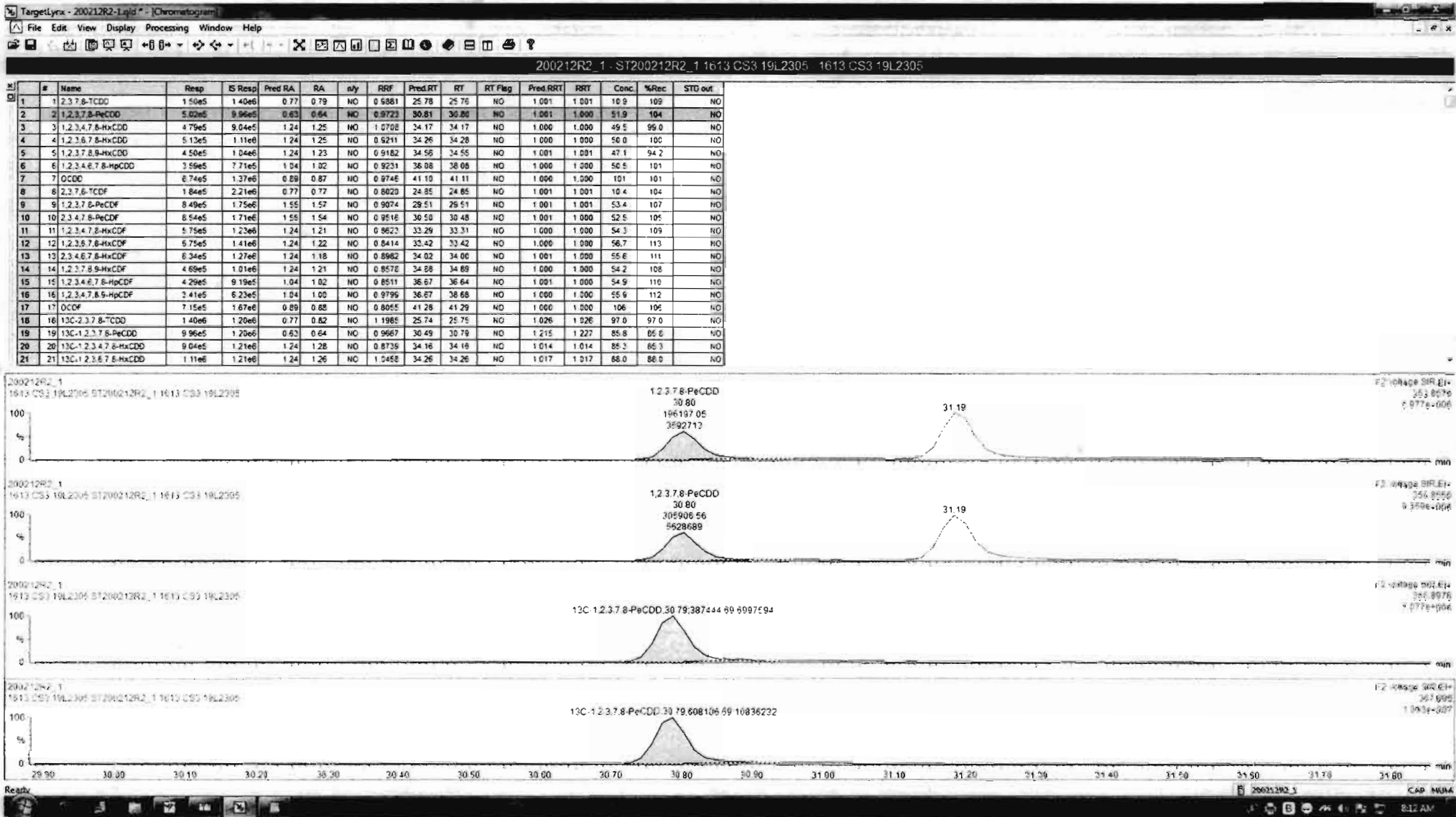
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200212R2_1



200212R2_1





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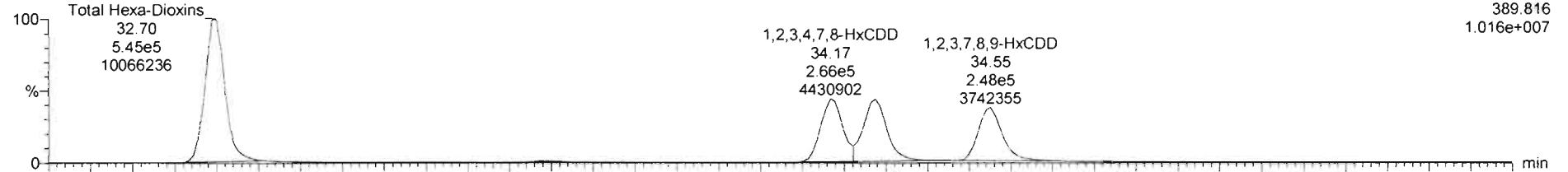
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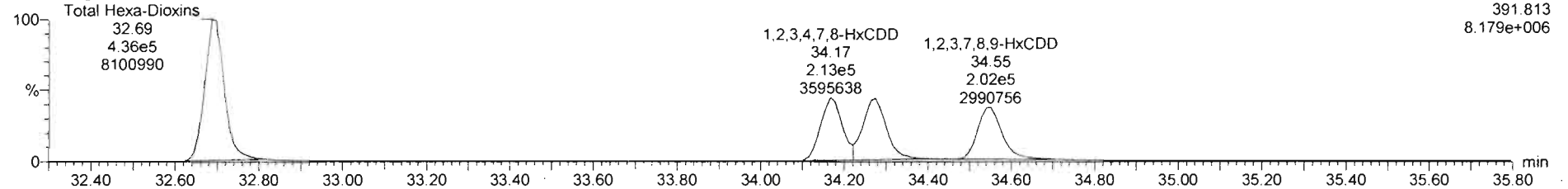
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1,2,3,4,7,8-HxCDD

200212R2_1

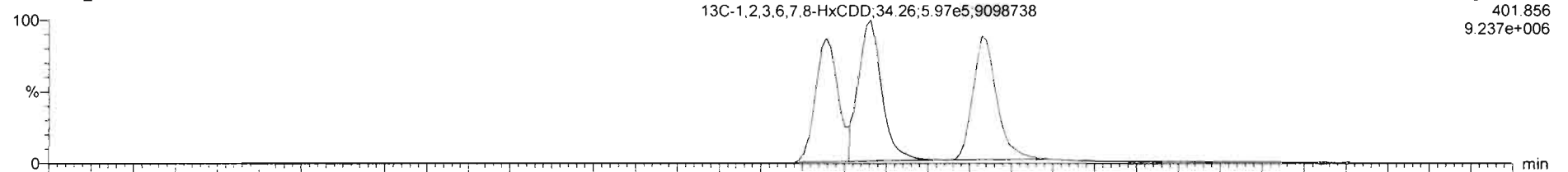


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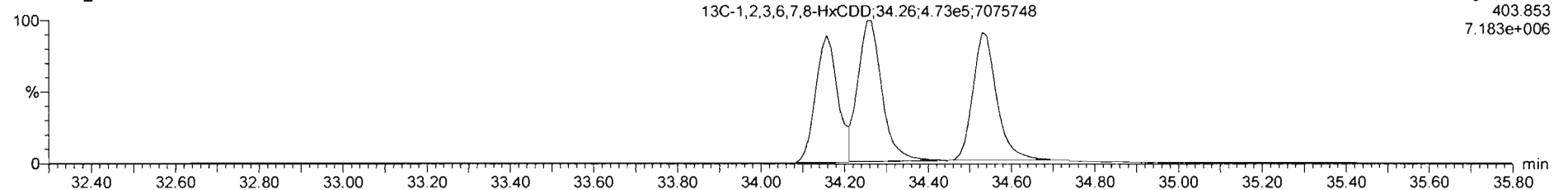


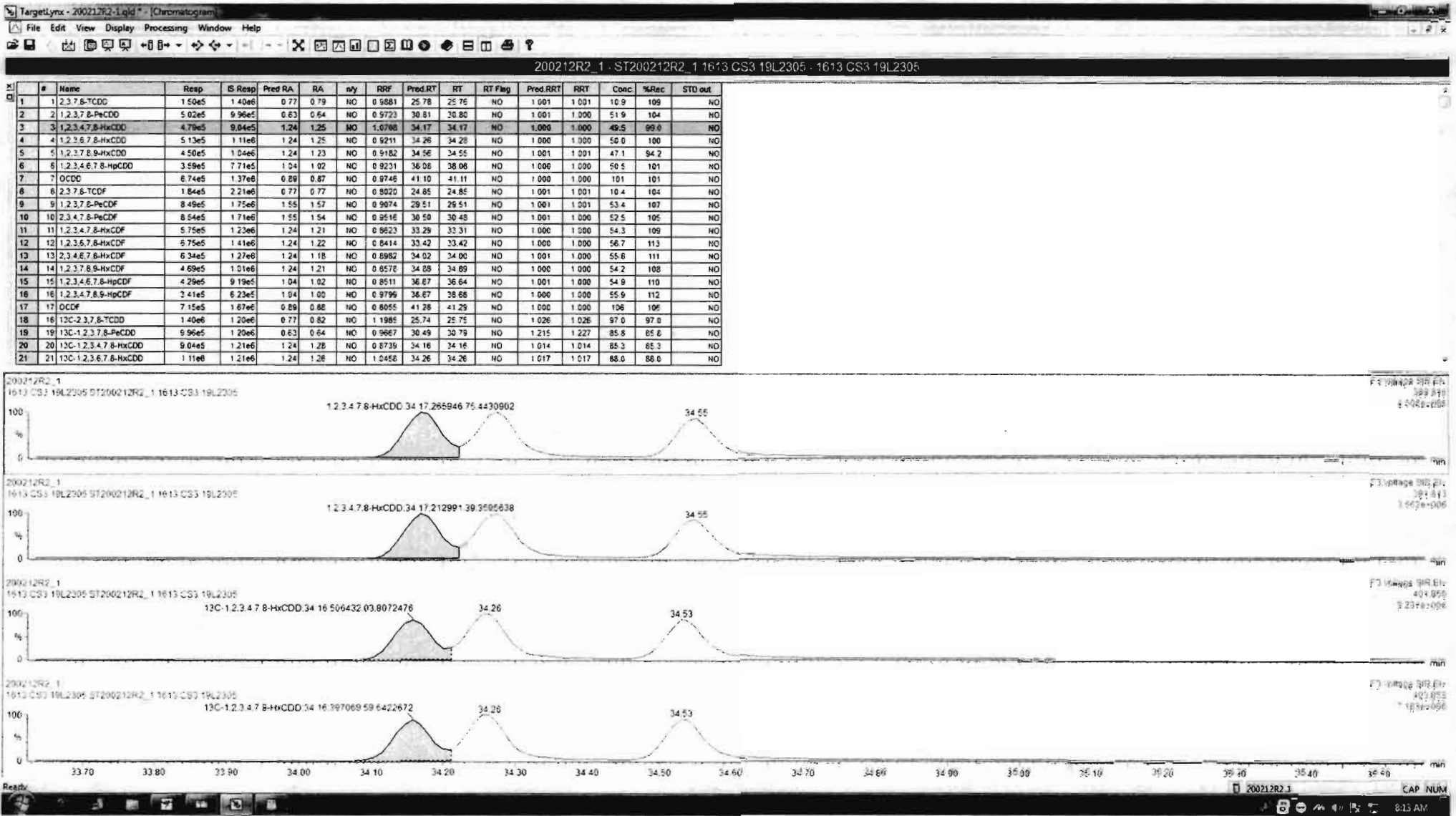
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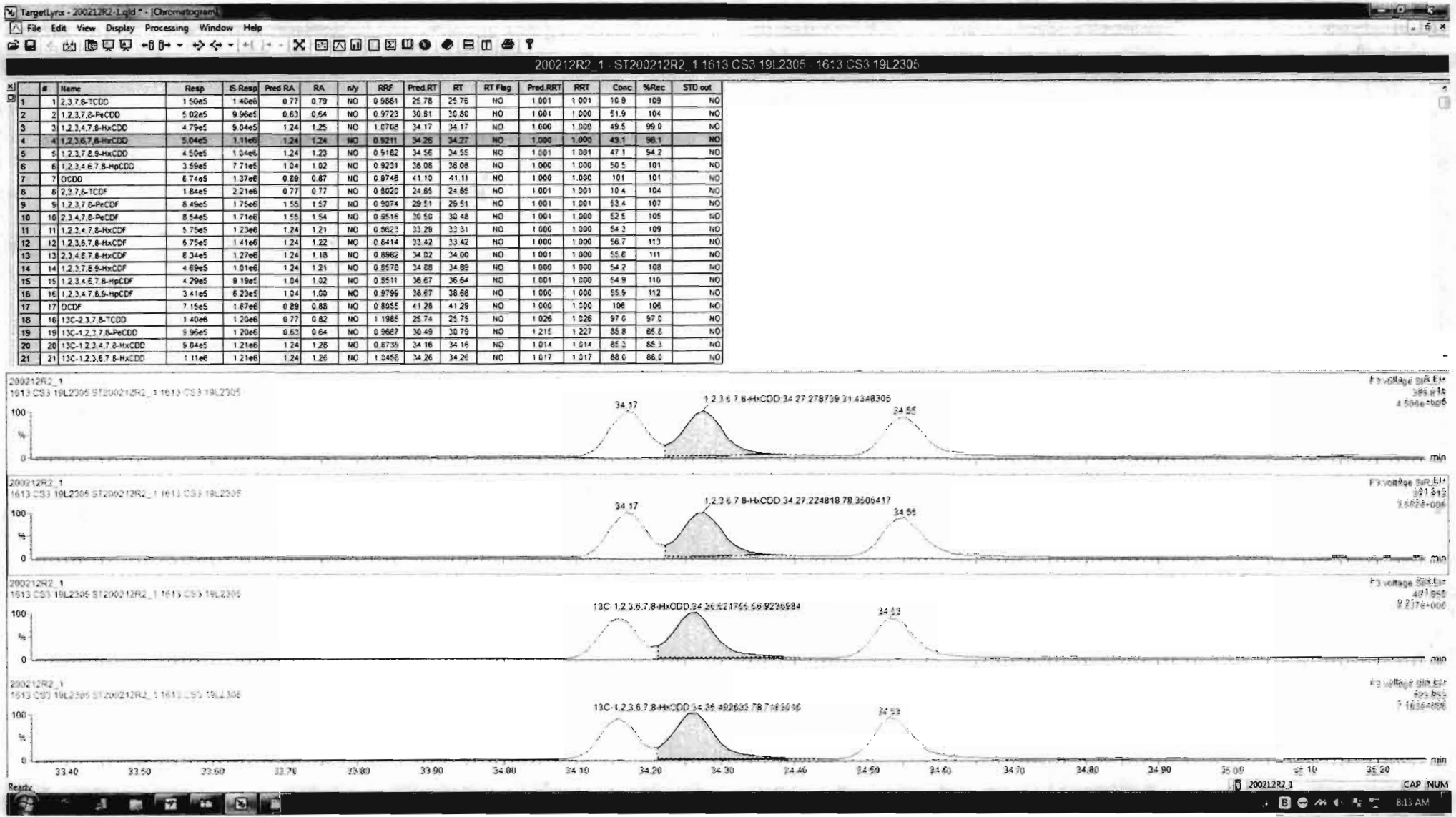
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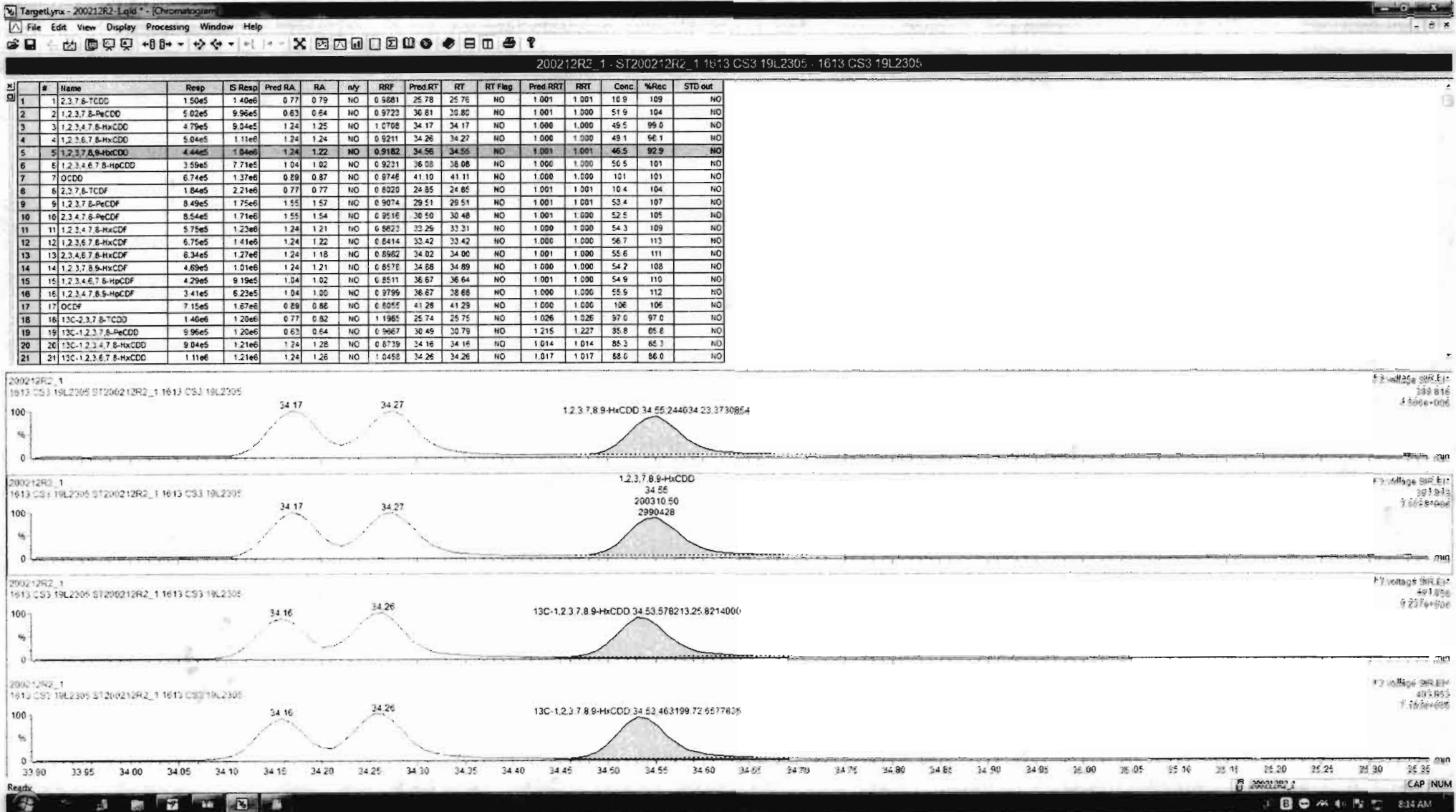


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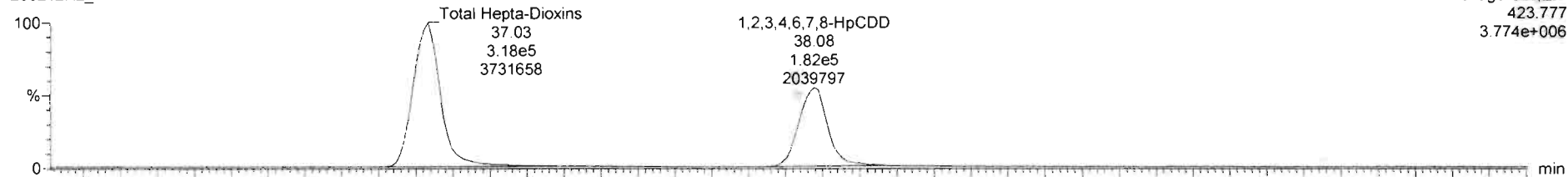
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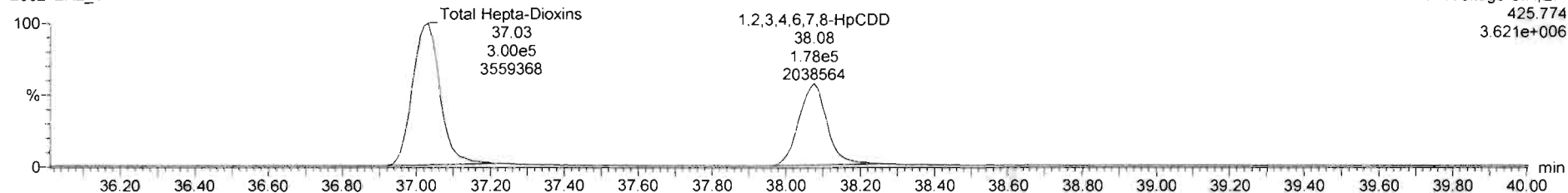
1,2,3,4,6,7,8-HpCDD

200212R2_1



F4: Voltage SIR, EI+
423.777
3.774e+006

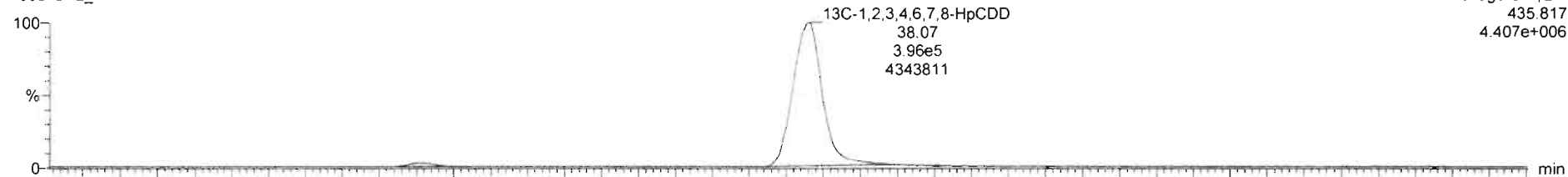
200212R2_1



F4: Voltage SIR, EI+
425.774
3.621e+006

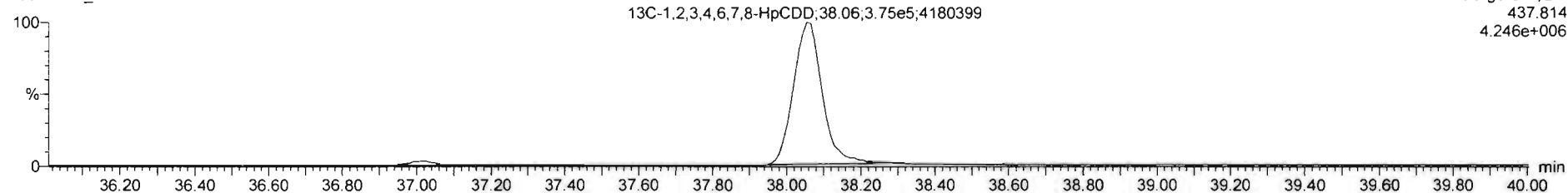
13C-1,2,3,4,6,7,8-HpCDD

200212R2_1



F4: Voltage SIR, EI+
435.817
4.407e+006

200212R2_1



F4: Voltage SIR, EI+
437.814
4.246e+006

Dataset: Untitled

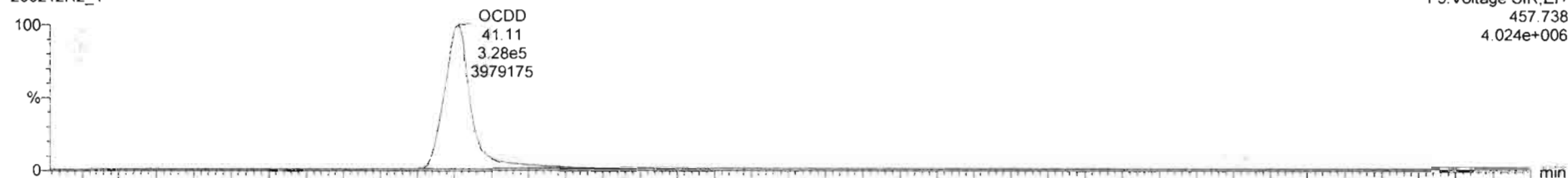
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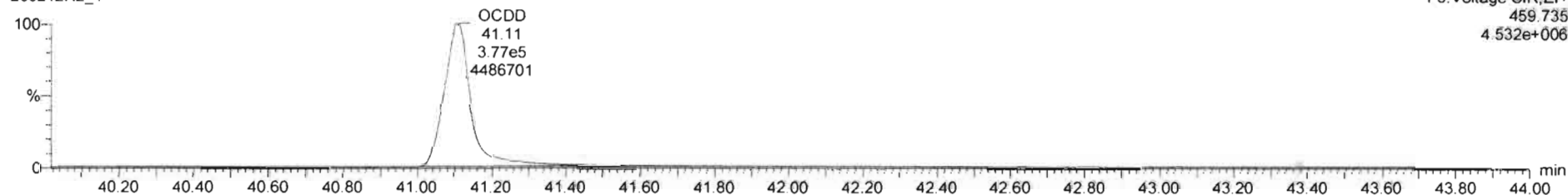
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OCDD

200212R2_1

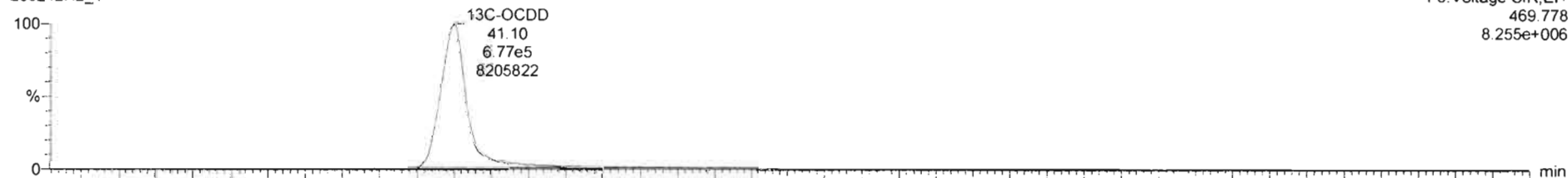


200212R2_1

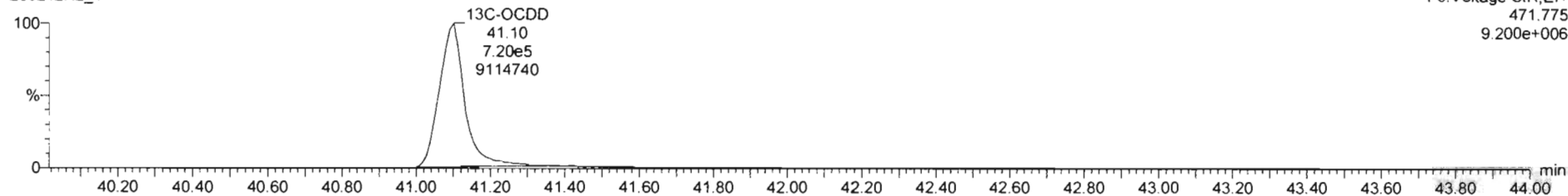


13C-OCDD

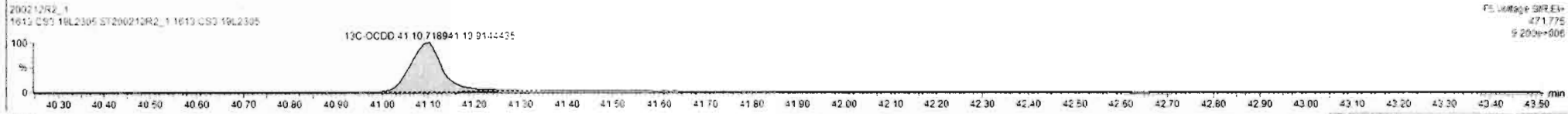
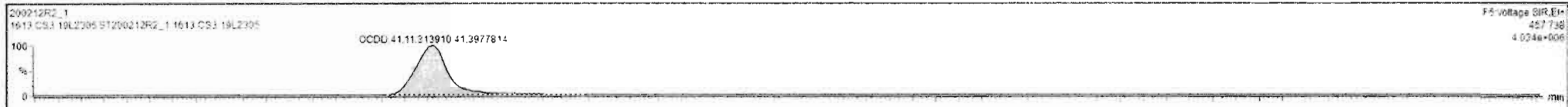
200212R2_1



200212R2_1



#	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	1.50e5	1.40e6	0.77	0.79	NO	0.9881	25.78	25.78	NO	1.001	1.001	10.9	109	NO
2	1,2,3,7,8-PeCDD	5.02e5	9.96e5	0.63	0.64	NO	0.9723	30.81	30.80	NO	1.001	1.000	51.9	104	NO
3	1,2,3,4,7,8-HxCDD	4.79e5	9.04e5	1.24	1.25	NO	1.0708	34.17	34.17	NO	1.000	1.000	45.5	99.0	NO
4	1,2,3,6,7,8-HxCDD	5.04e5	1.11e6	1.24	1.24	NO	0.9211	34.26	34.27	NO	1.000	1.000	49.1	98.1	NO
5	1,2,3,7,8,9-HxCDD	4.44e5	1.04e6	1.24	1.22	NO	0.9182	34.56	34.55	NO	1.001	1.001	46.5	92.9	NO
6	1,2,3,4,6,7,8-HpCDD	3.59e5	7.71e5	1.04	1.02	NO	0.9231	36.08	36.08	NO	1.000	1.000	50.5	101	NO
7	OCDD	6.74e5	1.37e6	0.89	0.87	NO	0.9746	41.10	41.11	NO	1.000	1.000	101	101	NO
8	6,2,3,7,8-TCDF	1.84e5	2.21e6	0.77	0.77	NO	0.8020	24.85	24.85	NO	1.001	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	8.49e5	1.75e6	1.55	1.57	NO	0.9074	29.51	29.51	NO	1.001	1.001	53.4	107	NO
10	1,2,3,4,7,8-PeCDF	8.54e5	1.71e6	1.55	1.54	NO	0.9516	30.50	30.48	NO	1.001	1.000	52.5	105	NO
11	1,2,3,4,7,8-HxCDF	5.75e5	1.23e6	1.24	1.21	NO	0.8623	33.29	33.31	NO	1.000	1.000	54.3	109	NO
12	1,2,3,6,7,8-HxCDF	6.75e5	1.41e6	1.24	1.22	NO	0.8414	33.42	33.42	NO	1.000	1.000	56.7	113	NO
13	1,2,3,4,6,7,8-HxCDF	6.34e5	1.27e6	1.24	1.18	NO	0.8982	34.02	34.00	NO	1.001	1.000	55.6	111	NO
14	1,2,3,7,8,9-HxCDF	4.69e5	1.01e6	1.24	1.21	NO	0.8578	34.88	34.89	NO	1.000	1.000	54.2	108	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	9.19e5	1.04	1.02	NO	0.8511	36.67	36.64	NO	1.001	1.000	54.9	110	NO
16	1,2,3,4,7,8,9-HpCDF	3.41e5	6.23e5	1.04	1.00	NO	0.9799	36.67	36.68	NO	1.000	1.000	55.9	112	NO
17	OCDF	7.15e5	1.67e6	0.89	0.88	NO	0.8055	41.28	41.29	NO	1.000	1.000	106	106	NO
18	13C-2,3,7,8-TCDD	1.40e6	1.20e6	0.77	0.82	NO	1.1985	25.74	25.75	NO	1.026	1.026	97.0	97.0	NO
19	13C-1,2,3,7,8-PeCDD	9.96e5	1.20e6	0.63	0.64	NO	0.9667	30.49	30.79	NO	1.215	1.227	85.8	85.8	NO
20	13C-1,2,3,4,7,8-HxCDD	9.04e5	1.21e6	1.24	1.28	NO	0.8739	34.16	34.16	NO	1.014	1.014	85.2	85.3	NO
21	13C-1,2,3,6,7,8-HxCDD	1.11e6	1.21e6	1.24	1.26	NO	1.0458	34.26	34.26	NO	1.017	1.017	86.0	86.0	NO



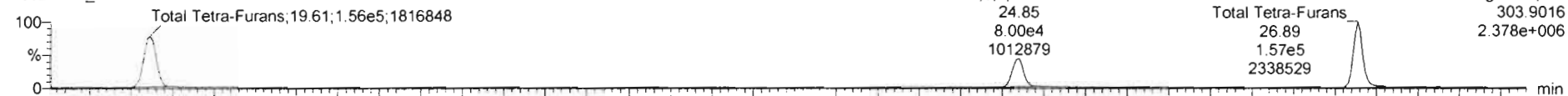
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Printed: Thursday, February 13, 2020 08:03:15 Pacific Standard Time

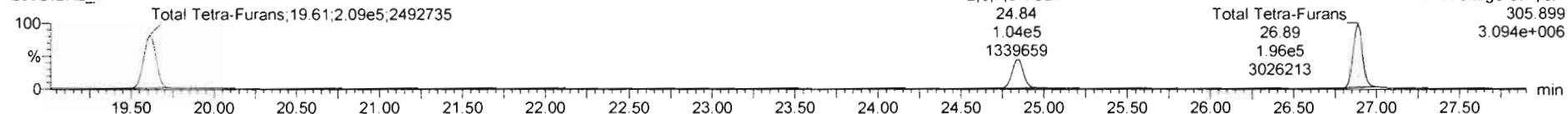
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2,3,7,8-TCDF

200212R2_1

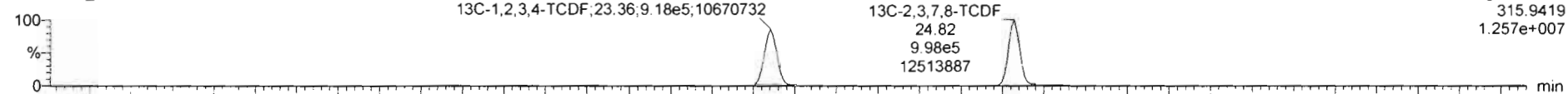


200212R2_1

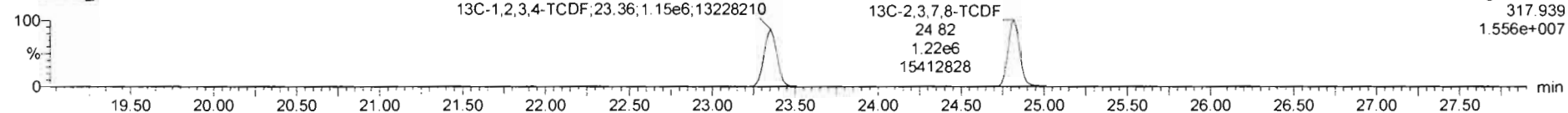


13C-2,3,7,8-TCDF

200212R2_1

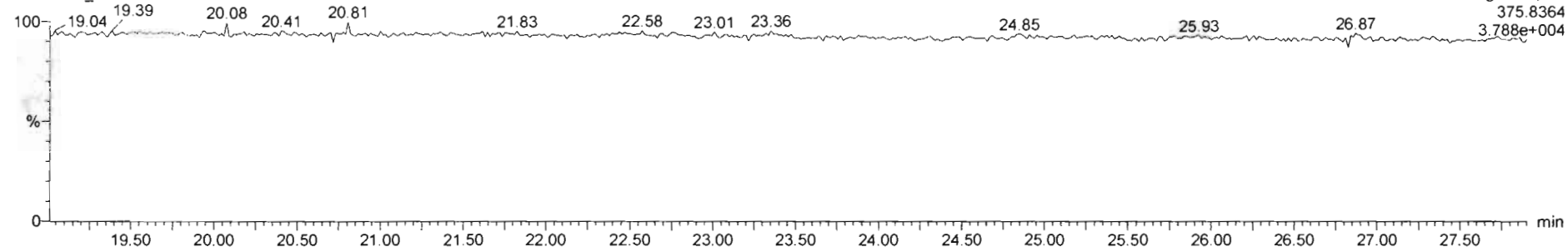


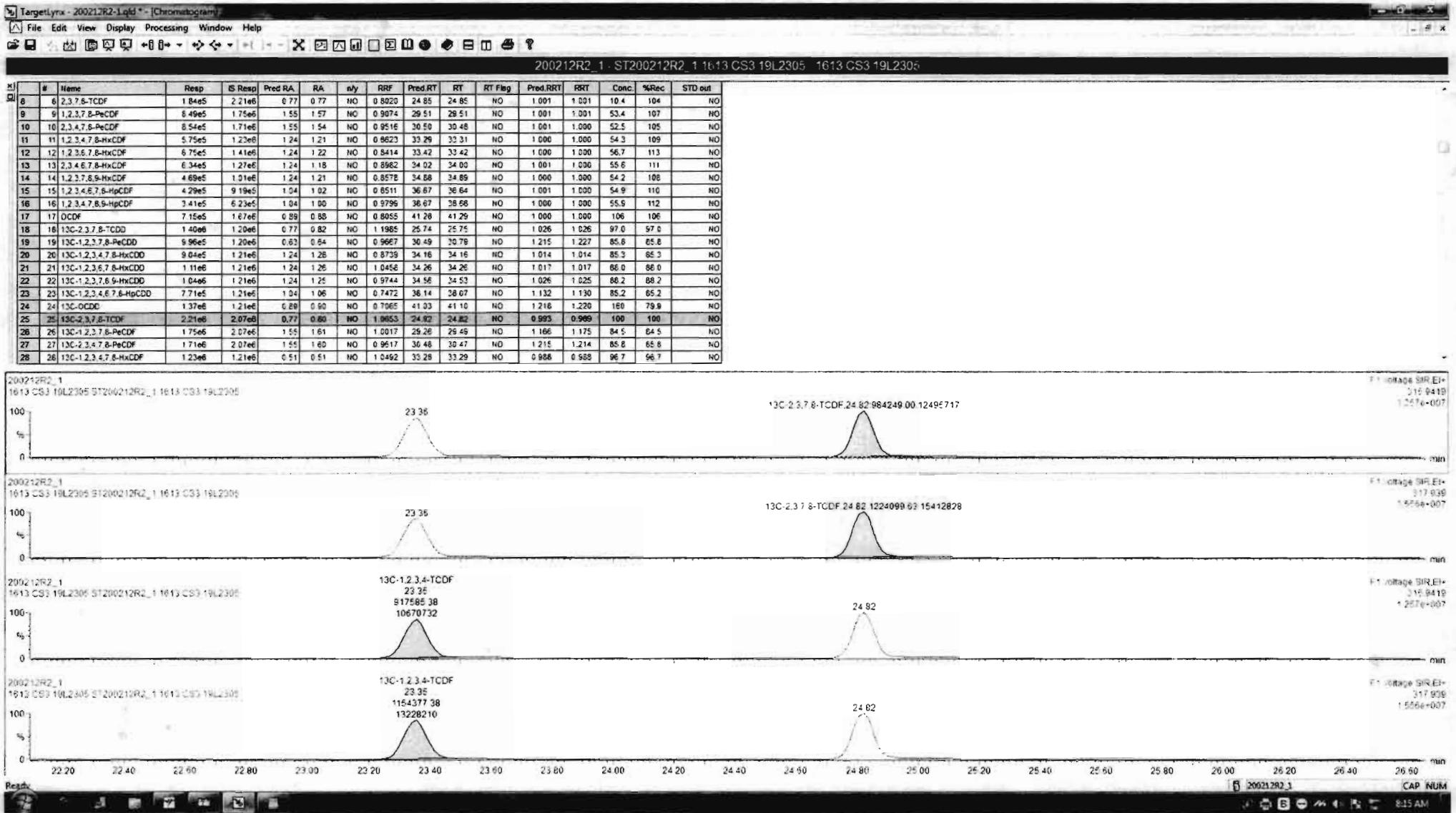
200212R2_1



DPE1

200212R2_1





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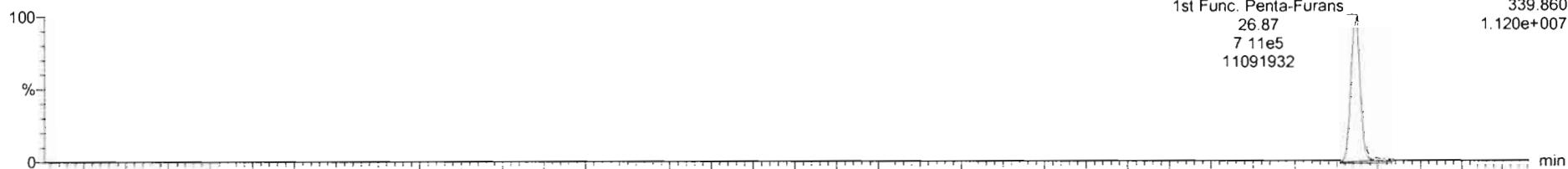
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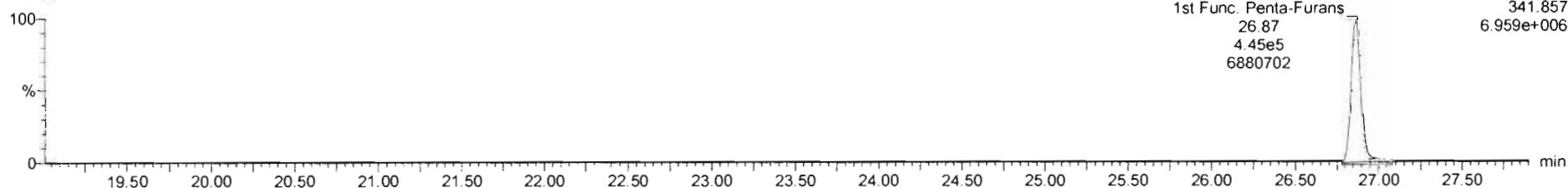
1st Func. Penta-Furans

200212R2_1



F1: Voltage SIR, EI+
339.860
1.120e+007

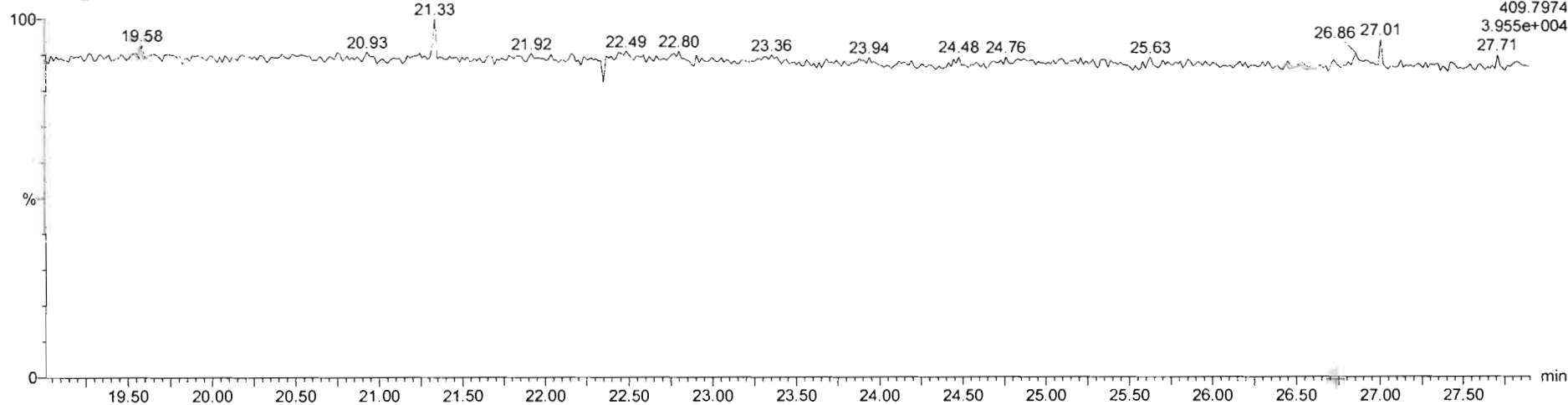
200212R2_1



F1: Voltage SIR, EI+
341.857
6.959e+006

DPE6

200212R2_1



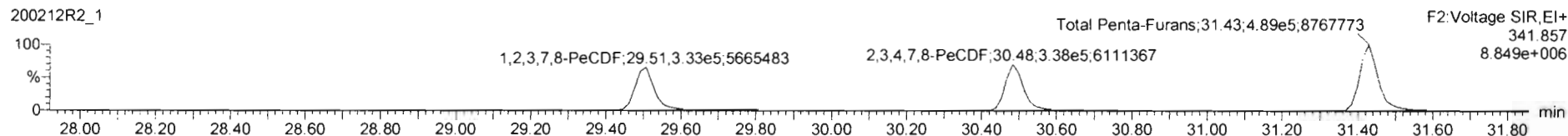
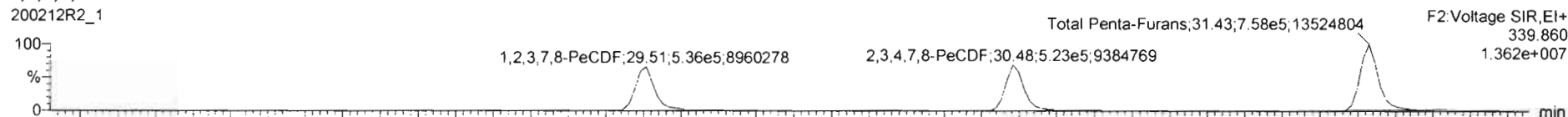
F1: Voltage SIR, EI+
409.7974
3.955e+004
27.71

Dataset: Untitled

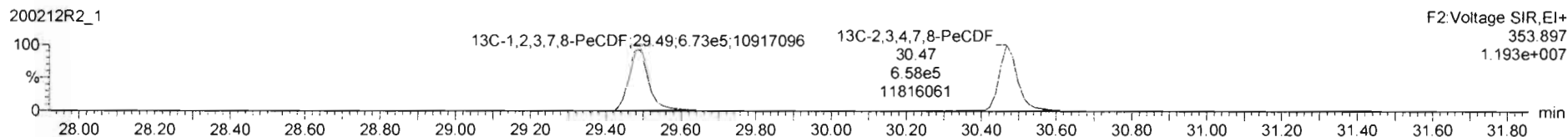
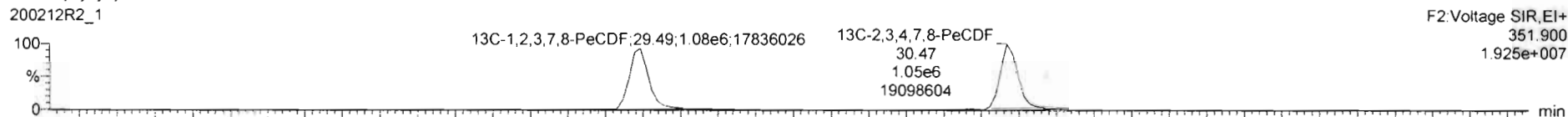
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Printed: Thursday, February 13, 2020 08:03:15 Pacific Standard Time

Name: 200212R2_1, Date: 12-Feb-2020, Time: 14:05:29, ID: ST200212R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

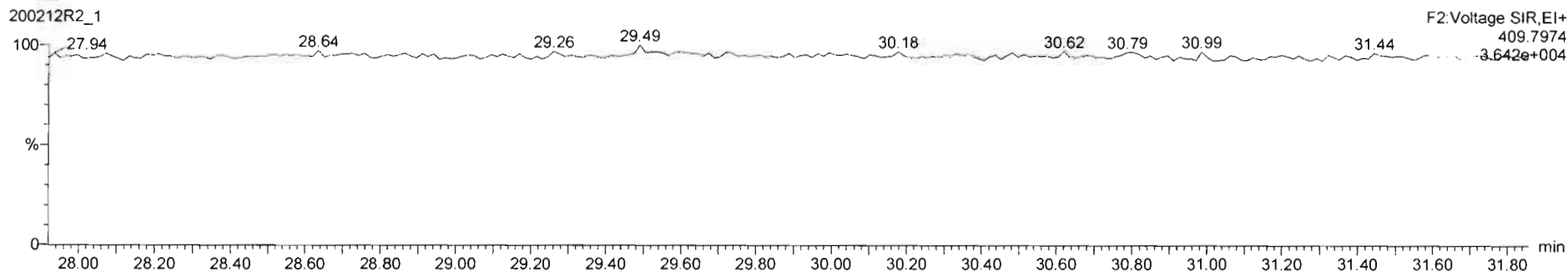
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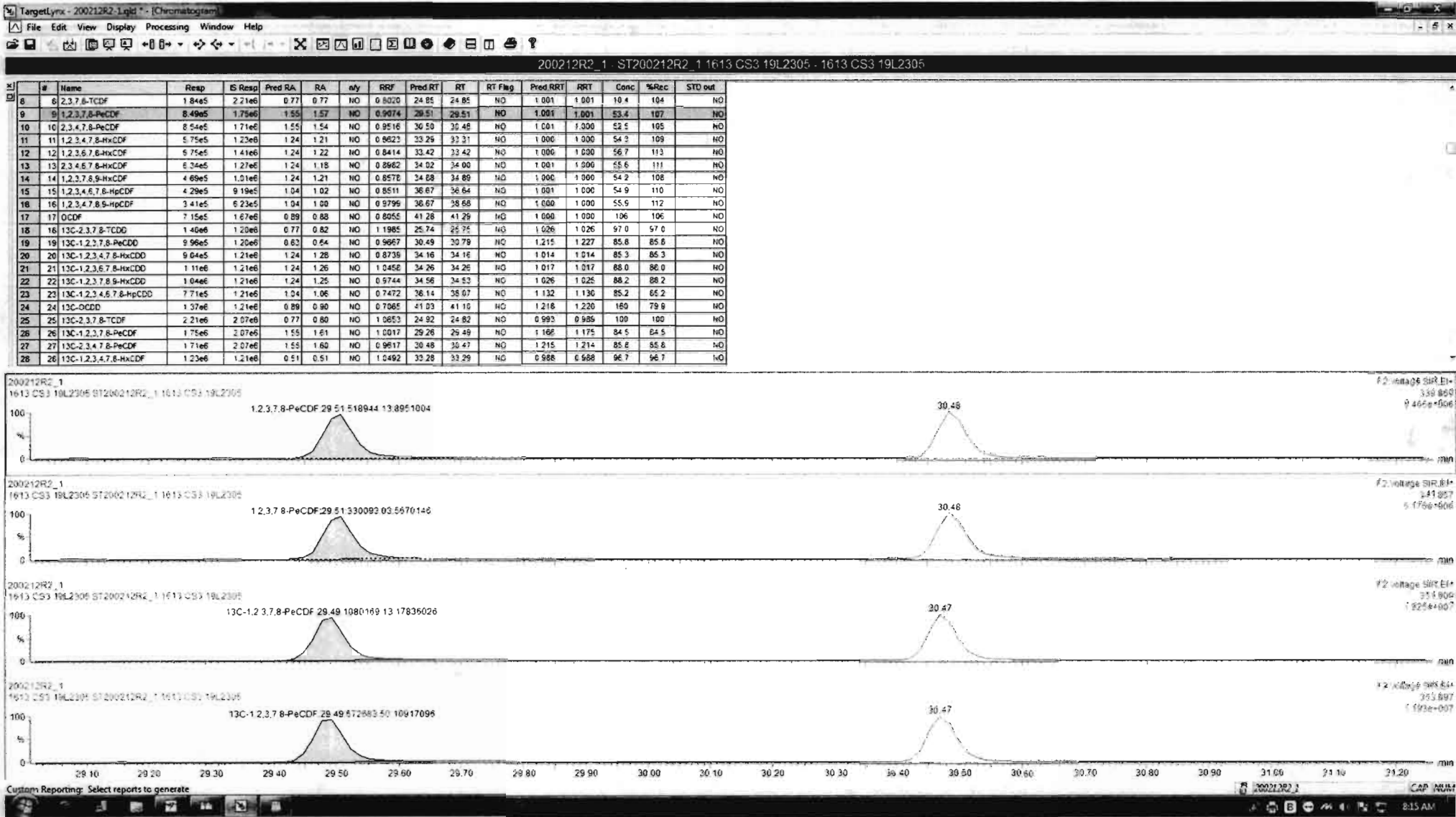


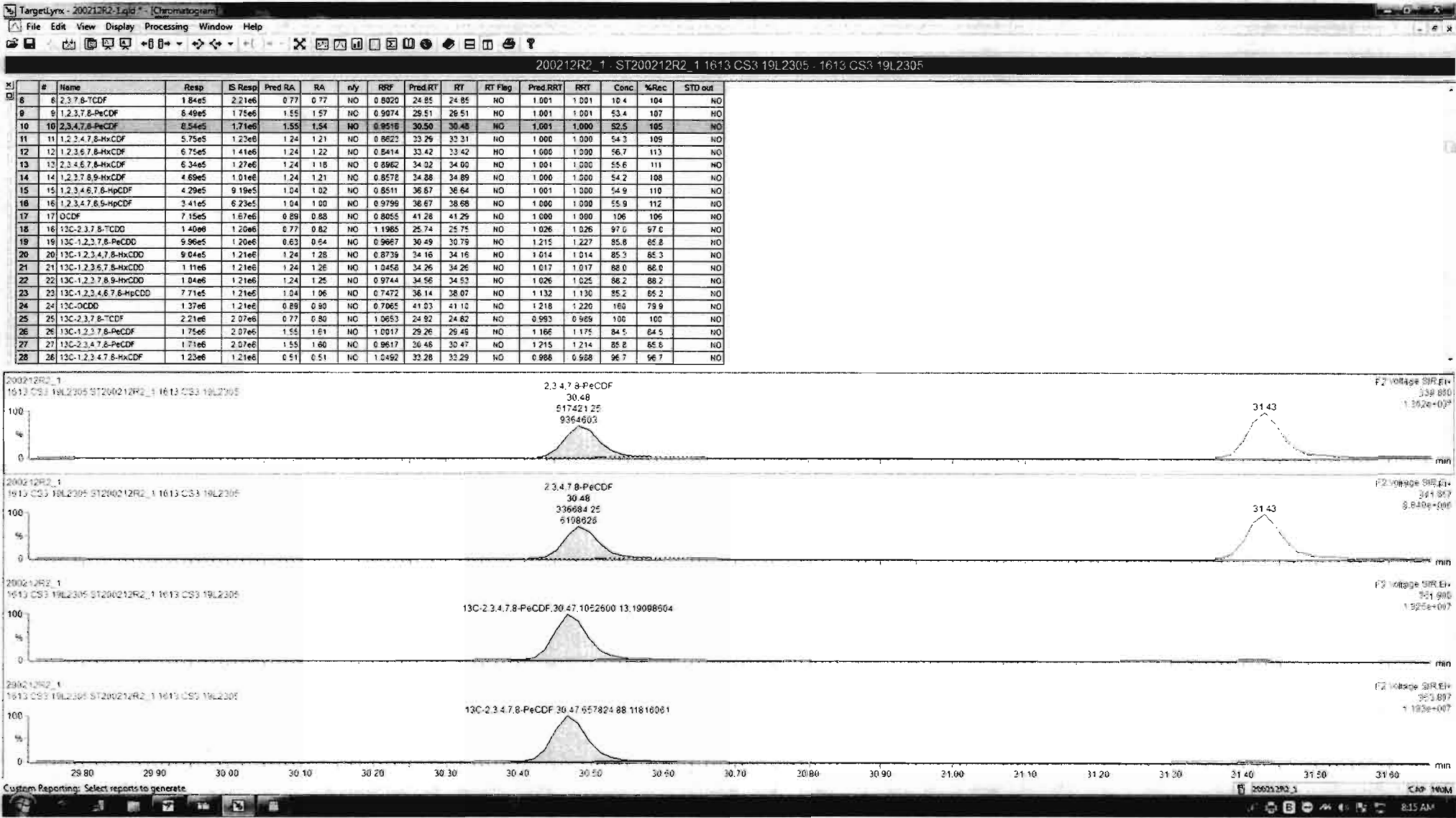
13C-1,2,3,7,8-PeCDF



DPE2







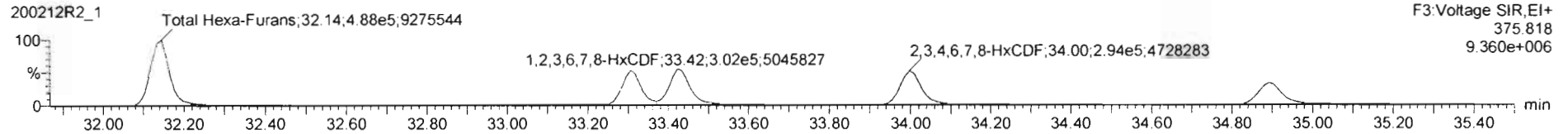
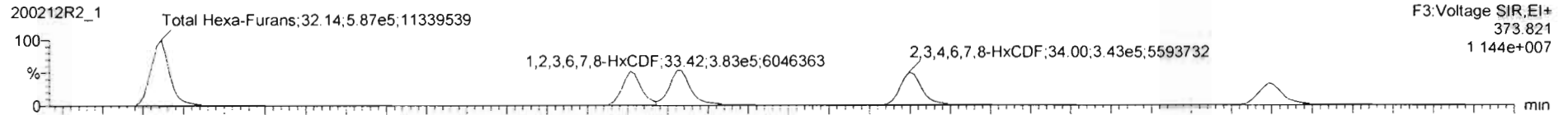
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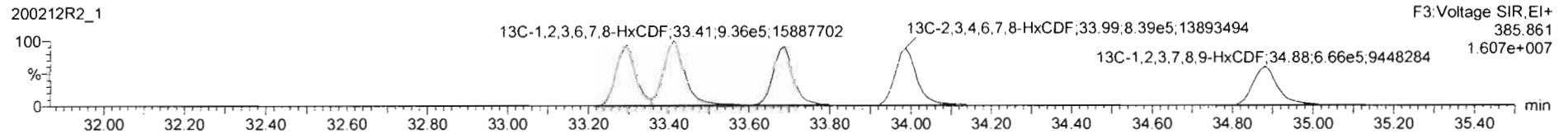
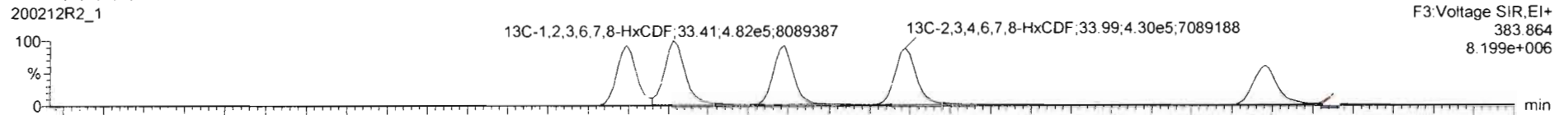
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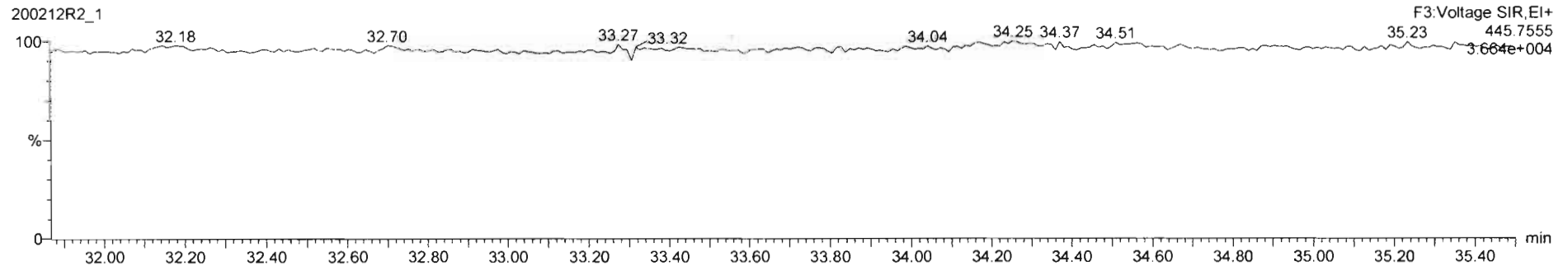
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13C-1,2,3,4,7,8-HxCDF

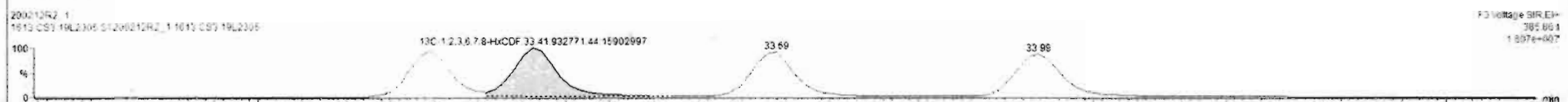
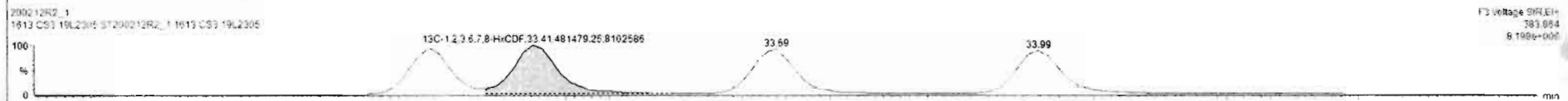


DPE3



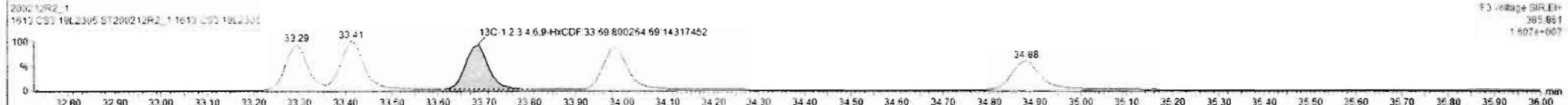
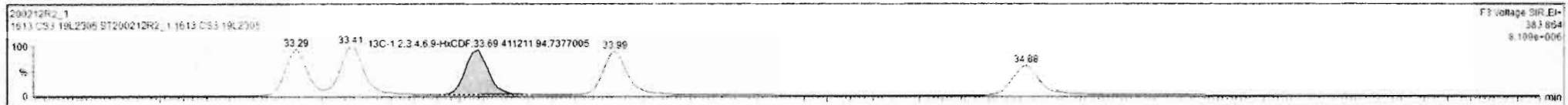
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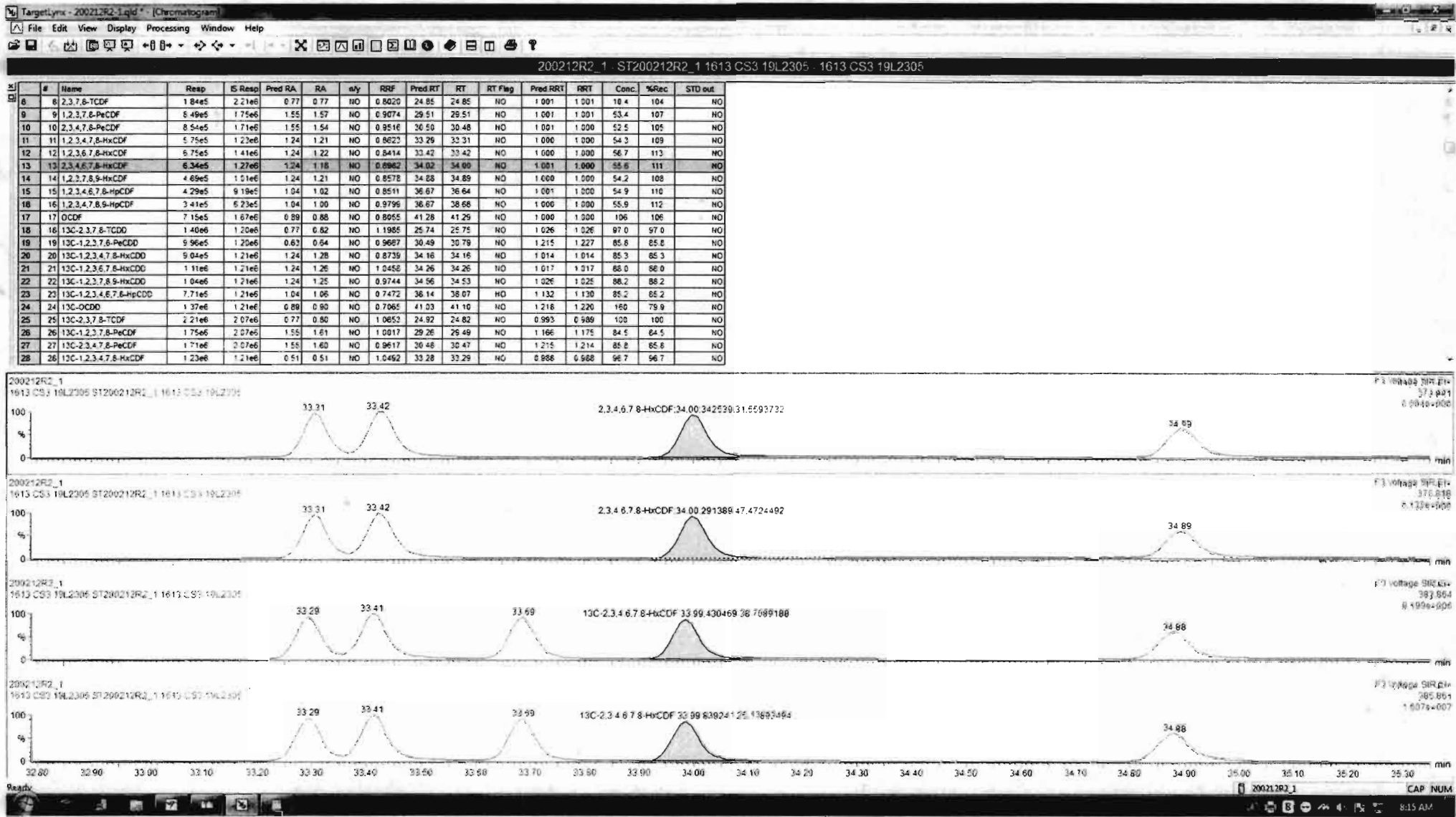
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8	2,3,7,8-TCDF	1.84e5	2.21e6	0.77	0.77	NO	0.8020	24.85	24.85	NO	1.001	1.001	10.4	104	NO
9	1,2,3,7,8-PeCDF	8.49e5	1.75e6	1.55	1.57	NO	0.9074	29.51	29.51	NO	1.001	1.001	53.4	107	NO
10	2,3,4,7,8-PeCDF	8.54e5	1.71e6	1.55	1.54	NO	0.9516	30.50	30.48	NO	1.001	1.000	52.5	105	NO
11	1,2,3,4,7,8-HxCDF	5.75e5	1.23e6	1.24	1.21	NO	0.8623	33.29	33.31	NO	1.000	1.000	54.3	109	NO
12	1,2,3,6,7,8-HxCDF	6.75e5	1.41e6	1.24	1.22	NO	0.8414	33.42	33.42	NO	1.000	1.000	56.7	113	NO
13	1,2,3,4,6,7,8-HxCDF	6.34e5	1.27e6	1.24	1.18	NO	0.8962	34.02	34.00	NO	1.001	1.000	55.6	111	NO
14	1,2,3,7,8,9-HxCDF	4.69e5	1.01e6	1.24	1.21	NO	0.8578	34.88	34.89	NO	1.000	1.000	54.2	108	NO
15	1,2,3,4,6,7,8-HpCDF	4.29e5	9.19e5	1.04	1.02	NO	0.8511	36.67	36.64	NO	1.001	1.000	54.9	110	NO
16	1,2,3,4,7,8,9-HpCDF	2.41e5	6.23e5	1.04	1.00	NO	0.9799	36.67	36.66	NO	1.000	1.000	55.9	112	NO
17	OCDF	7.15e5	1.67e6	0.89	0.88	NO	0.8055	41.28	41.29	NO	1.000	1.000	106	106	NO
18	13C-2,3,7,8-TCDD	1.40e6	1.20e6	0.77	0.82	NO	1.1985	25.74	25.75	NO	1.026	1.026	97.0	97.0	NO
19	13C-1,2,3,7,8-PeCDD	5.96e5	1.29e6	0.63	0.64	NO	0.9687	30.49	30.79	NO	1.215	1.227	85.8	85.8	NO
20	13C-1,2,3,4,7,8-HxCDD	9.04e5	1.21e6	1.24	1.28	NO	0.8739	34.16	34.16	NO	1.014	1.014	85.3	85.3	NO
21	13C-1,2,3,6,7,8-HxCDD	1.11e6	1.21e6	1.24	1.26	NO	1.0458	34.26	34.26	NO	1.017	1.017	86.0	86.0	NO
22	13C-1,2,3,7,8,9-HxCDD	1.04e6	1.21e6	1.24	1.25	NO	0.9744	34.56	34.53	NO	1.026	1.025	86.2	86.2	NO
23	13C-1,2,3,4,6,7,8-HpCDD	7.71e5	1.21e6	1.04	1.06	NO	0.7472	36.14	36.07	NO	1.132	1.130	85.2	85.2	NO
24	13C-OCDD	1.37e6	1.21e6	0.89	0.90	NO	0.7065	41.03	41.10	NO	1.218	1.220	160	79.9	NO
25	75-13C-2,3,7,8-TCDF	2.21e6	2.07e6	0.77	0.80	NO	1.0853	24.92	24.82	NO	0.993	0.989	100	100	NO
26	13C-1,2,3,7,8-PeCDF	1.75e6	2.07e6	1.55	1.61	NO	1.0017	29.28	28.48	NO	1.166	1.175	84.5	84.5	NO
27	13C-2,3,4,7,8-PeCDF	1.71e6	2.07e6	1.55	1.60	NO	0.9617	30.46	30.47	NO	1.215	1.214	85.8	85.6	NO
28	13C-1,2,3,4,7,8-HxCDF	1.23e6	1.21e6	0.51	0.51	NO	1.0462	33.28	33.29	NO	0.986	0.988	96.7	96.7	NO



200212R2_1 ST200212R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
30	13C-2,3,4,6,7,8-HxCDF	1.27e6	1.21e6	0.51	0.51	NO	1.0562	34.00	33.99	NO	1.009	1.005	98.3	98.3	NO
31	13C-1,2,3,7,8,9-HxCDF	1.01e6	1.21e6	0.51	0.51	NO	0.9224	34.90	34.88	NO	1.036	1.035	90.3	90.3	NO
32	13C-1,2,3,4,6,7,8-HpCDF	5.19e5	1.21e6	0.44	0.44	NO	0.7672	36.65	36.63	NO	1.068	1.067	98.9	98.9	NO
33	13C-1,2,3,4,7,8,9-HpCDF	8.23e5	1.21e6	0.44	0.45	NO	0.5523	38.87	38.87	NO	1.148	1.148	93.1	93.1	NO
34	13C-OCDF	1.67e6	1.21e6	0.89	0.87	NO	0.7894	41.27	41.28	NO	1.225	1.225	175	87.4	NO
35	37Cl-2,3,7,8-TCDD	1.41e5	1.20e5				1.1763	25.77	25.76	NO	1.027	1.027	9.97	99.7	NO
36	13C-1,2,3,4-TCDD	1.20e6	1.20e6	0.77	0.82	NO	1.0000	25.11	25.09	NO	1.000	1.000	100	100	NO
37	13C-1,2,3,4-TCDF	2.07e6	2.07e6	0.77	0.79	NO	1.0000	23.37	23.35	NO	1.000	1.000	100	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.21e6	1.21e6	0.51	0.51	NO	1.0000	33.71	33.69	NO	1.000	1.000	100	100	YES
39	Total Tetra-Dioxins	1.40e6					0.9581	24.62		NO	0.000		95.1		NO
40	Total Penta-Dioxins	9.96e5					0.9723	29.96		NO	0.000		241		NO
41	Total Hexa-Dioxins	0.00e0					0.9211	33.63		NO	0.000		251		NO
42	Total Hepta-Dioxins	7.71e5					0.9231	37.64		NO	0.000		137		NO
43	Total Tetra-Furans	2.21e6					0.8020	23.81		NO	0.000		51.2		NO
44	1st Func. Penta-Furans	0.00e0					0.9074	27.09		NO	0.000		73.6		NO
45	Total Penta-Furans	0.00e0					0.9074	29.27		NO	0.000		186		NO
46	Total Hexa-Furans	0.00e0					0.8982	33.56		NO	0.000		318		NO
47	Total Hepta-Furans	0.00e0					0.8511	37.83		NO	0.000		111		NO
48	PFK1														
49	PFK2														
50	PFK3														





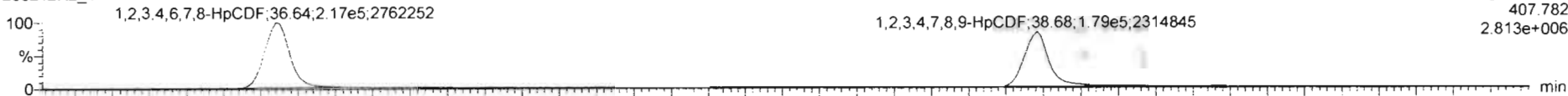
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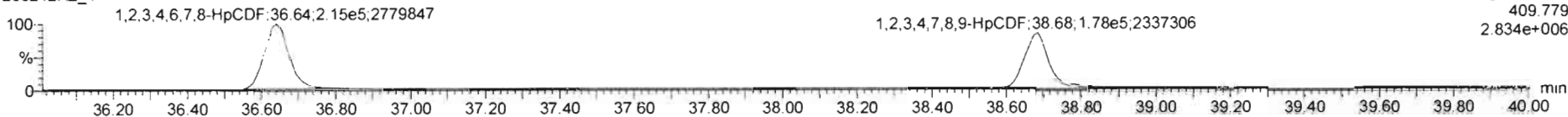
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1,2,3,4,6,7,8-HpCDF

200212R2_1

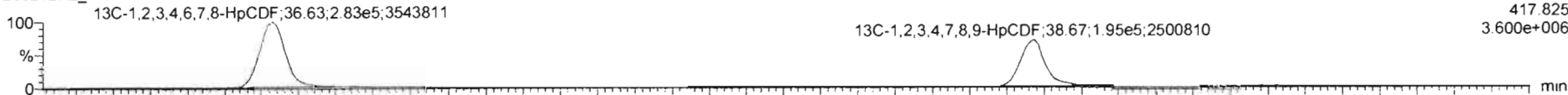


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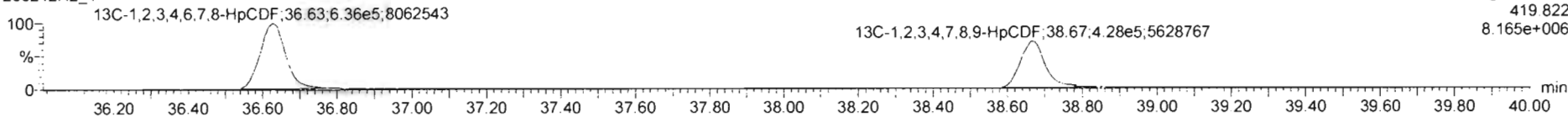


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200212R2_1

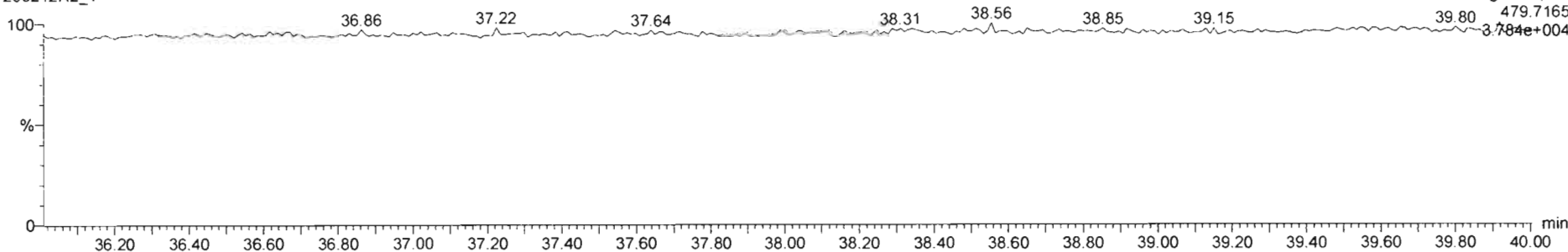


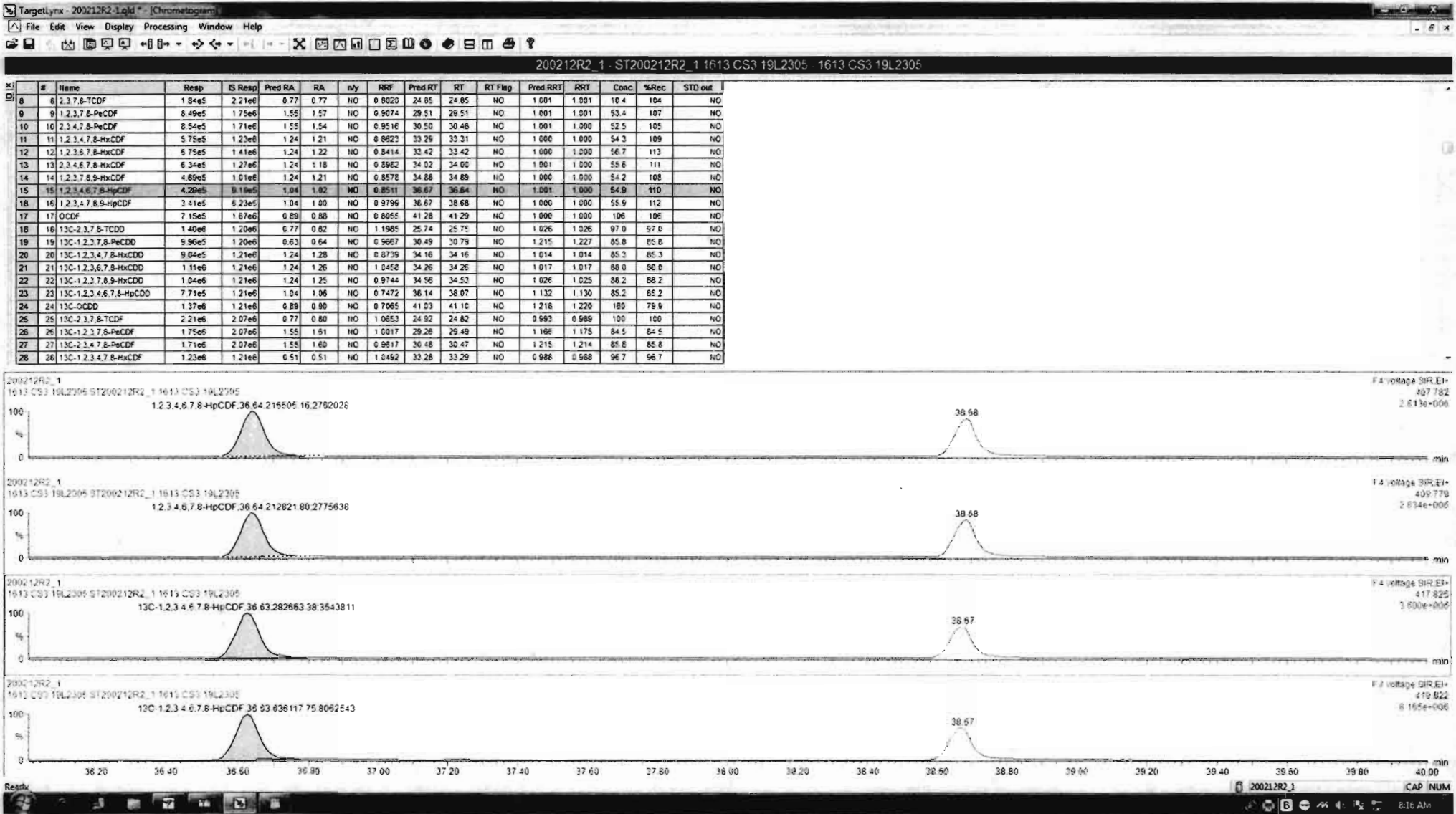
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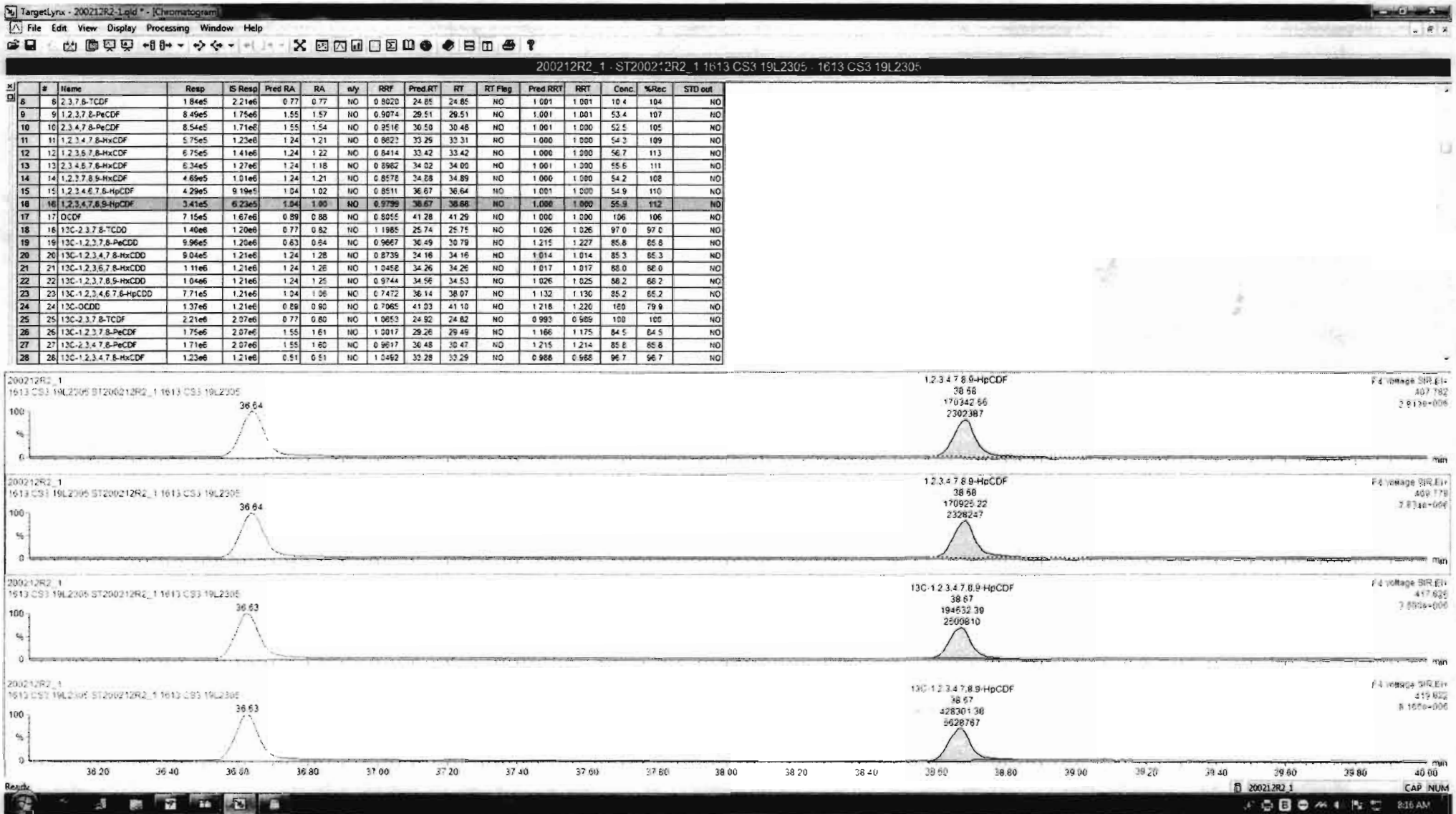


DPE4

200212R2_1





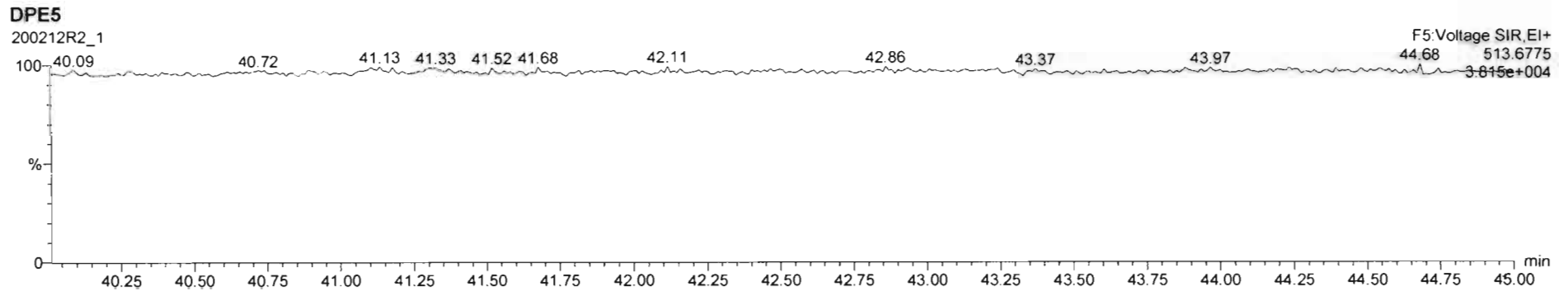
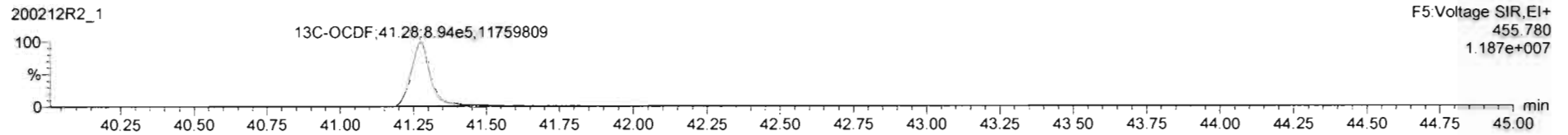
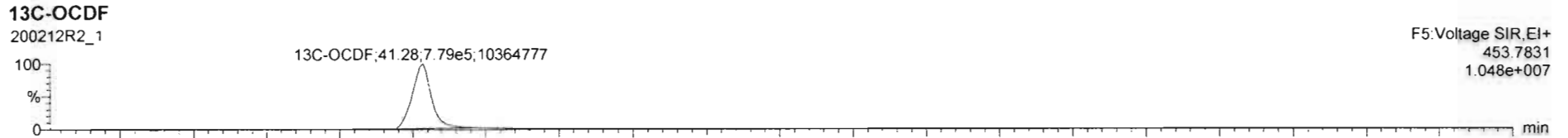
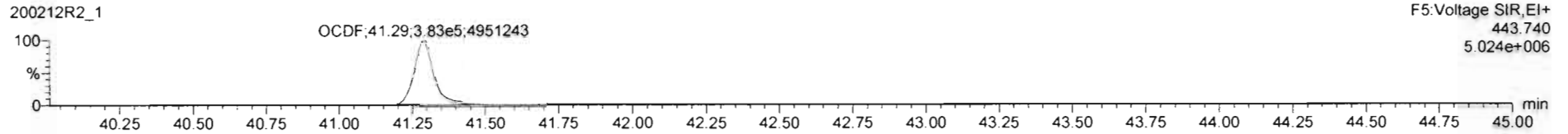
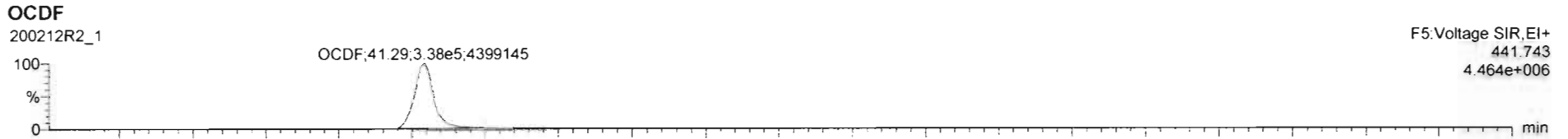


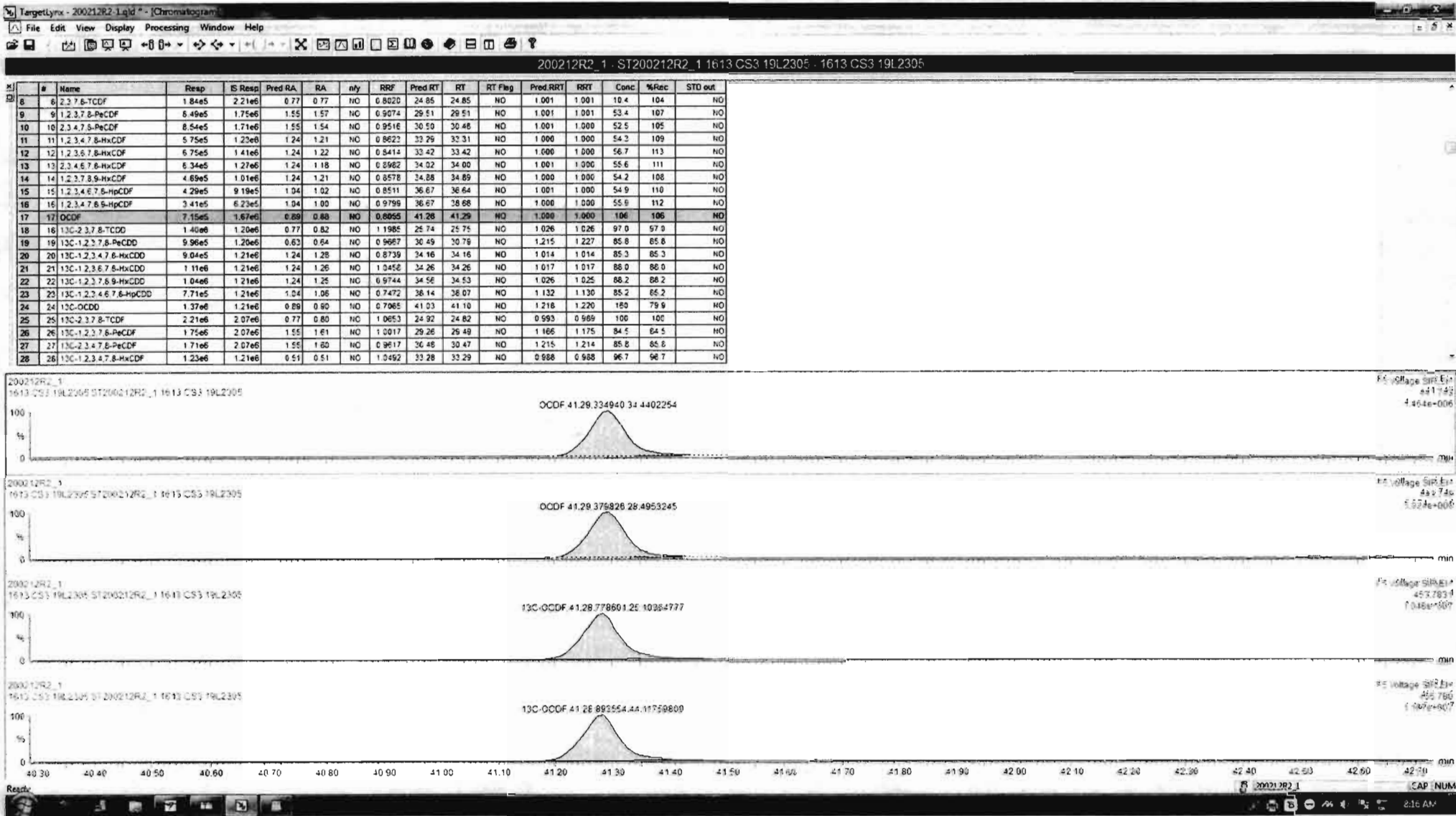
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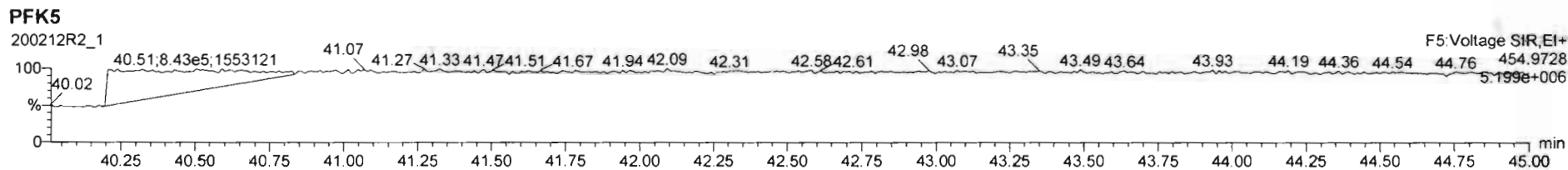
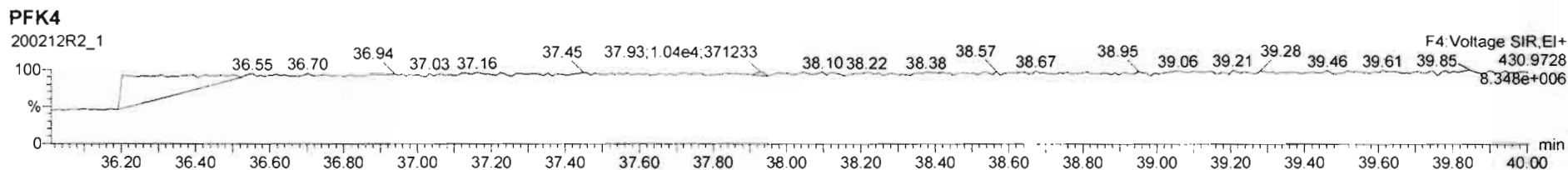
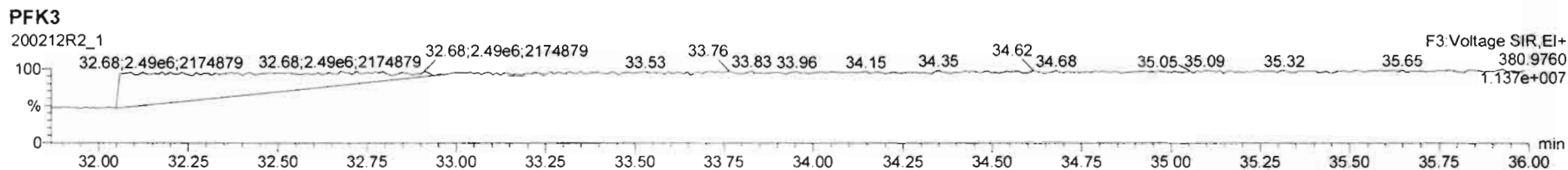
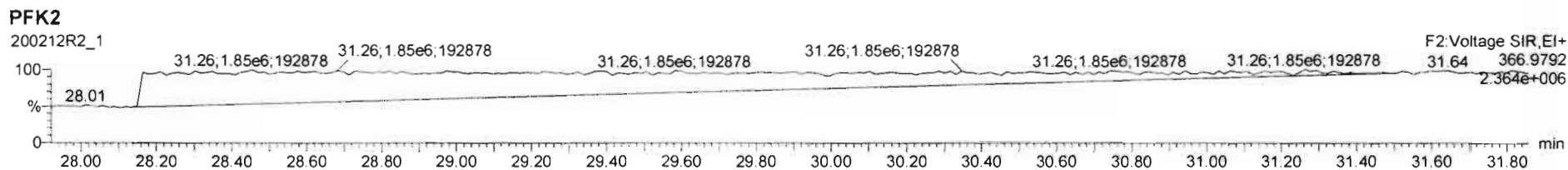
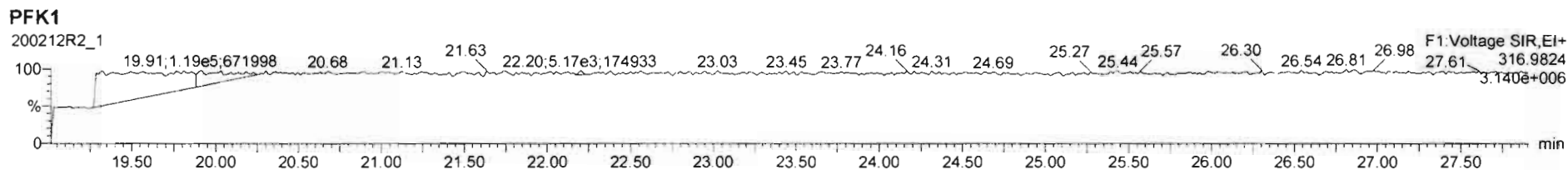


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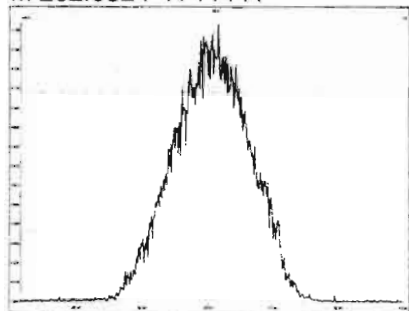
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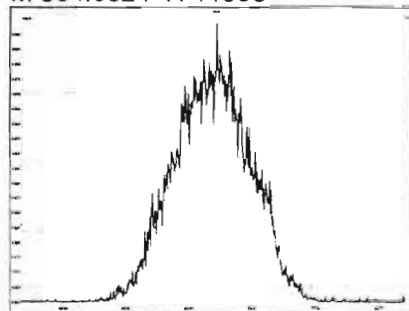


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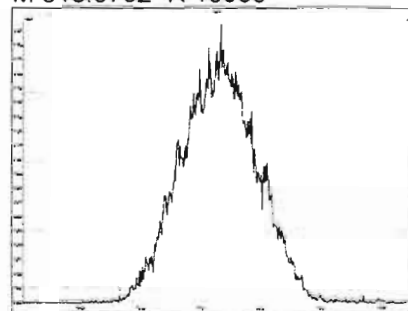
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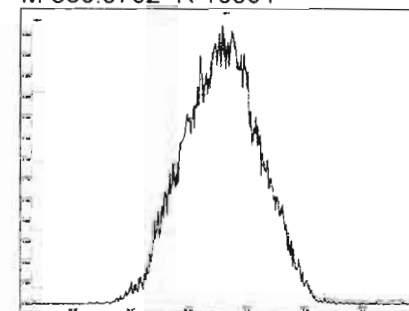
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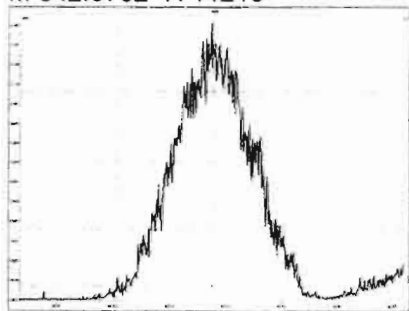
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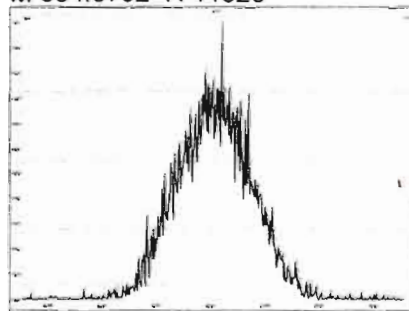
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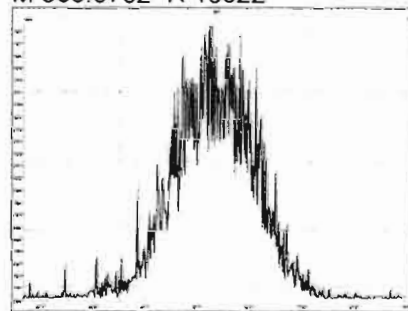
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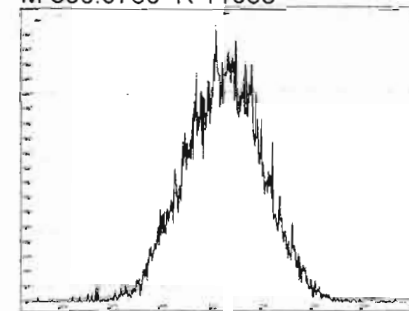
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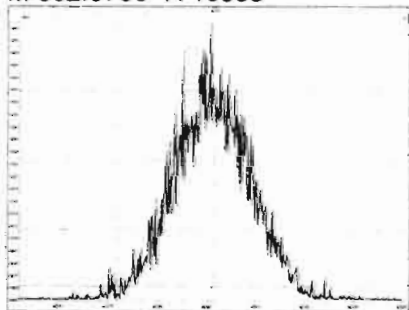
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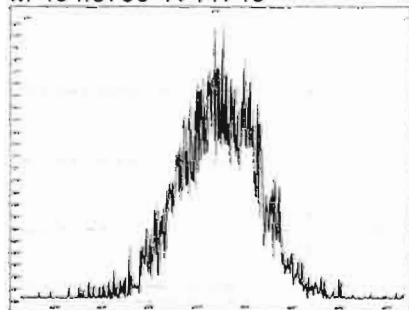
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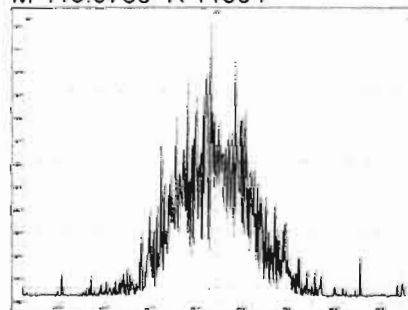
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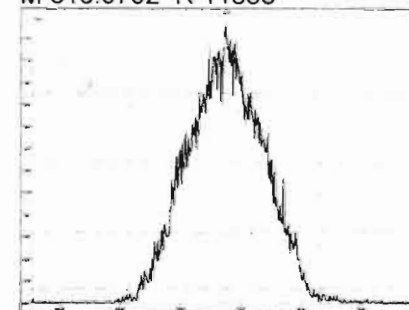
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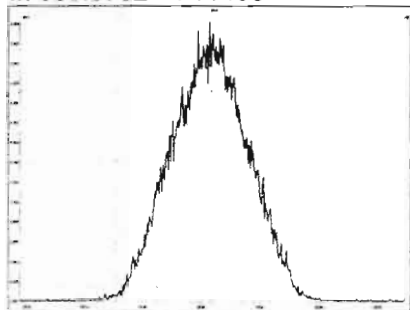


M 318.9792 R 11338

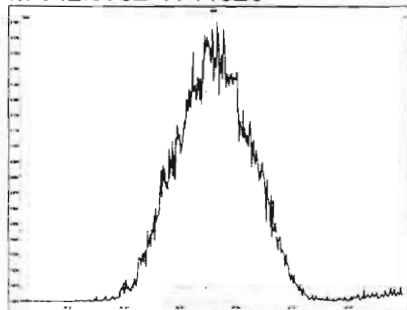


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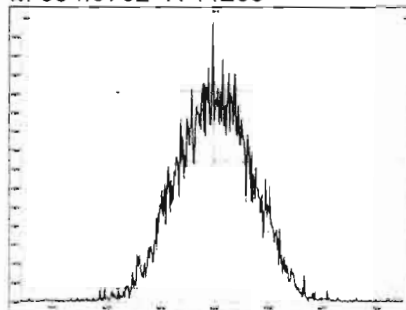
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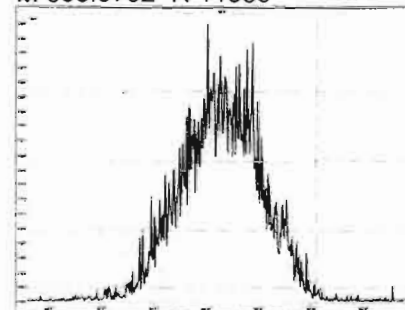
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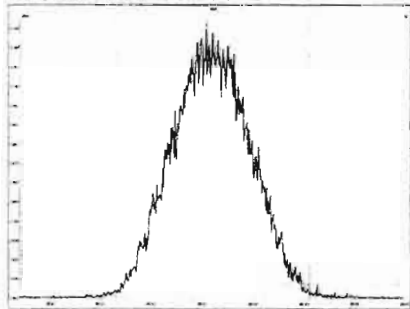
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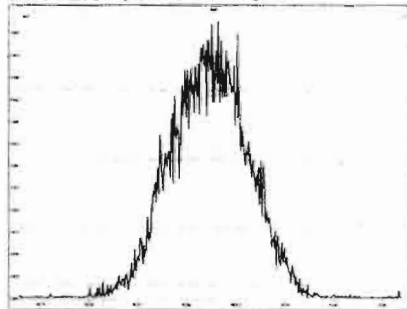
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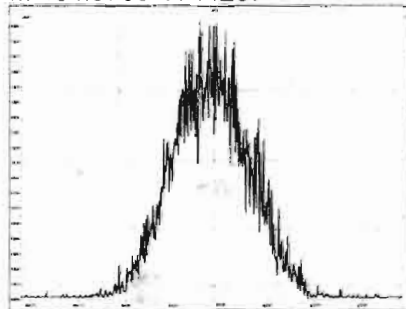
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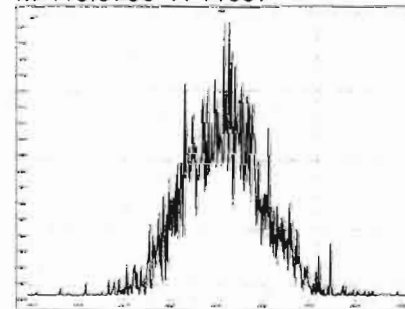
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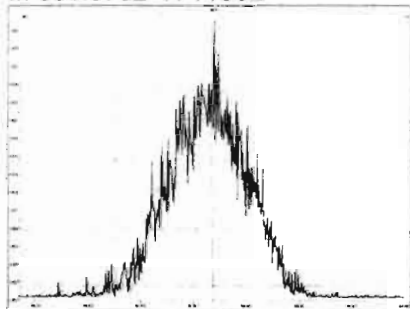
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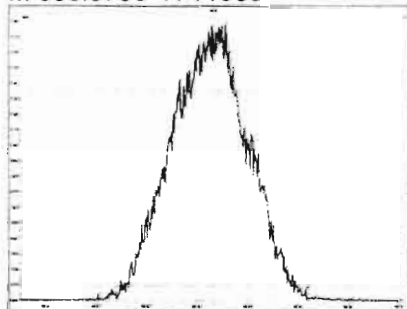
M 416.9760 R 11367



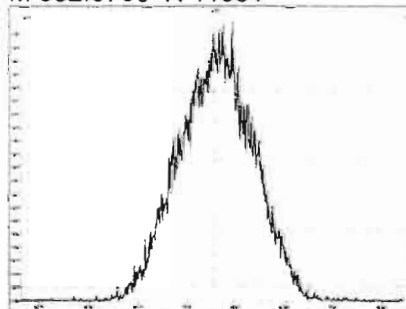
M 366.9792 R 11932



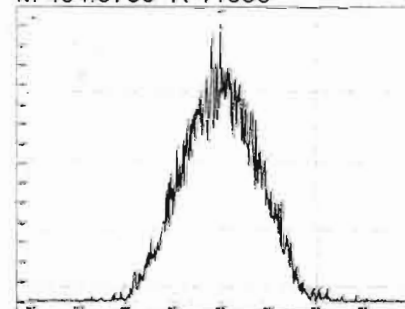
M 380.9760 R 11389



M 392.9760 R 11831

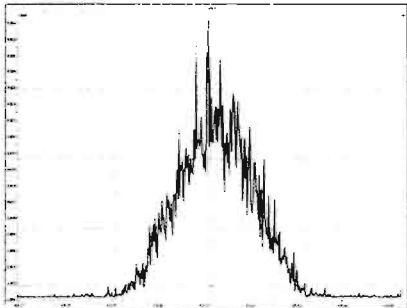


M 404.9760 R 11688

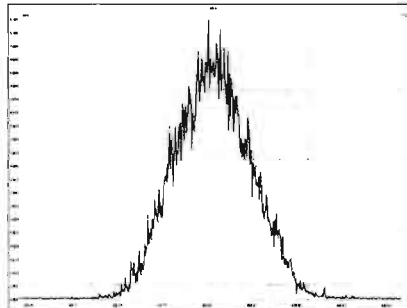


Printed: Thursday, February 13, 2020 01:25:37 Pacific Standard Time

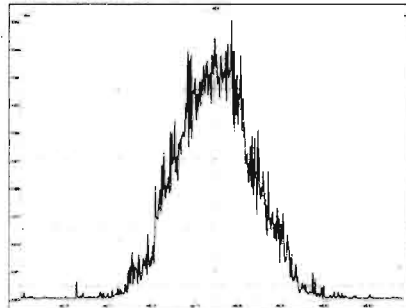
M 416.9760 R 11669



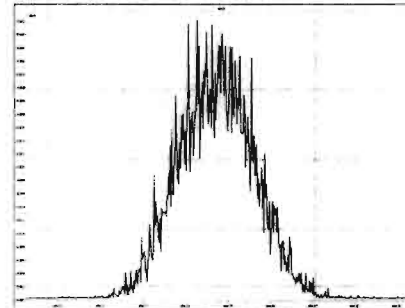
M 430.9728 R 11495



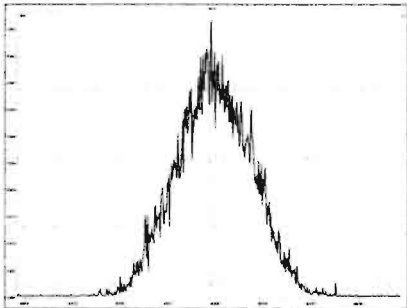
M 442.9728 R 11473



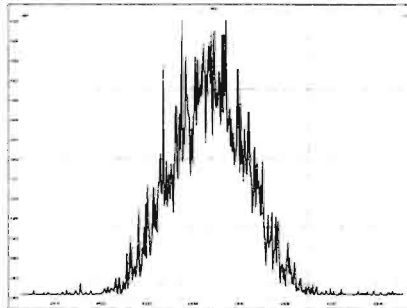
M 454.9728 R 11467



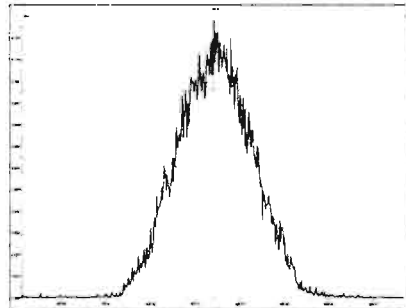
M 404.9760 R 11798



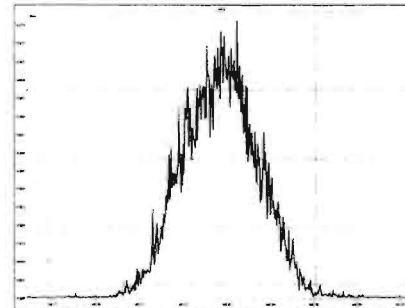
M 416.9760 R 12315



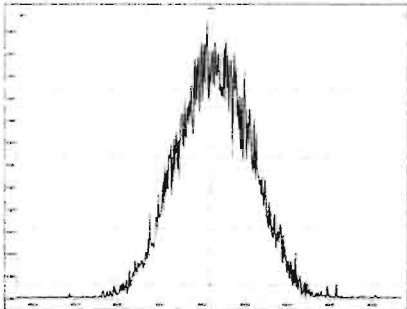
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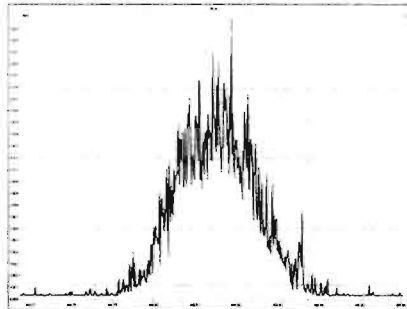
M 442.9728 R 11792



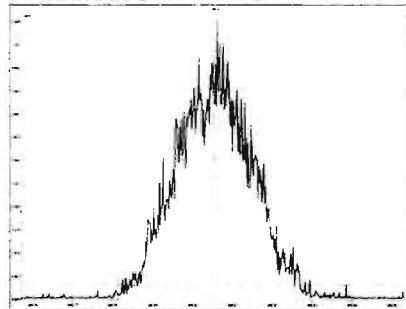
M 454.9728 R 11312



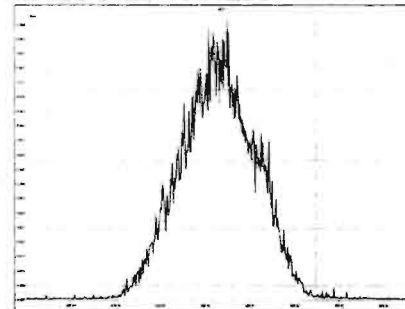
M 466.9728 R 11482



M 480.9696 R 11476

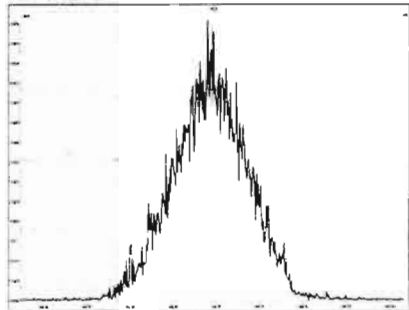


M 430.9728 R 11266

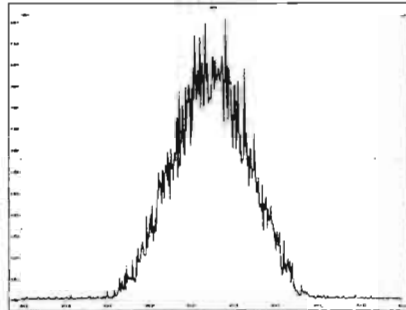


Printed: Thursday, February 13, 2020 01:25:37 Pacific Standard Time

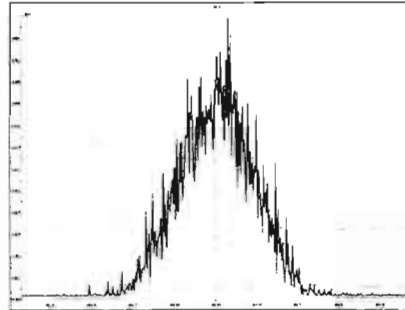
M 442.9728 R 11467



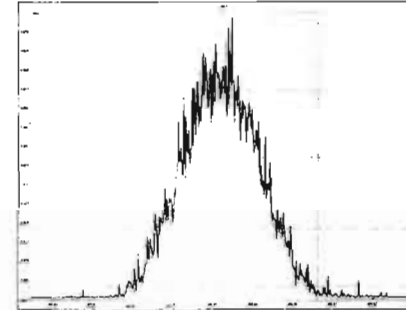
M 454.9728 R 11552



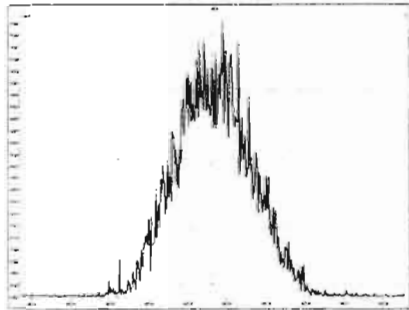
M 466.9728 R 12136



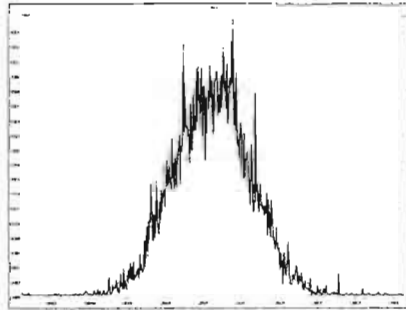
M 480.9696 R 11210



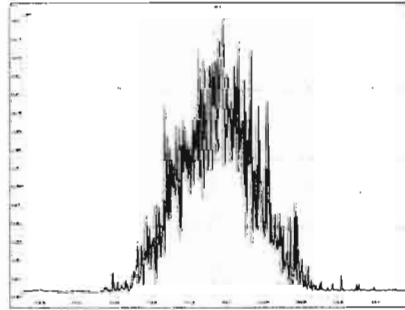
M 492.9696 R 11821



M 504.9696 R 11192



M 516.9697 R 12136



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200311R1-1

Reviewed By: CT 03/12/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1614 1699 429 1613/1668/8280		
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	GC Break <20%		<input type="checkbox"/> NA
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>8280 CS1 End Standard:</u>		
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA
Correct ICAL referenced?	<u>GRB</u>	<u>GRB</u>	Comments:		
<u>Run Log:</u>					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ↓			
- Samples within 12 hour clock?	(Y)	N			
- Bottle position verified?	<u>GRB</u>	<u>GRB</u>			

Dataset: U:\VG12.PRO\Results\200311R1\200311R1-2.qld

Last Altered: Wednesday, March 11, 2020 09:42:56 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 09:44:15 Pacific Daylight Time

GPB 03/11/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

C7 03/12/2020

Name: 200311R1_2, Date: 11-Mar-2020, Time: 09:12:24, ID: ST200311R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.94e5	0.76	NO	0.821	1.000	16.51	9.2467	92.5	0.0601
2	2 13C-2,3,7,8-TCDF	2.56e6	0.77	NO	1.10	1.000	16.48	102.08	102	0.205
3	3 13C-1,2,3,4-TCDF	2.28e6	0.78	NO	1.00	1.000	14.39	100.00	100	0.226
4	4 13C-1,2,3,4-TCDD	2.02e6	0.78	NO	12000	1.000	15.01	168.40	168	0.263

Dataset: Untitled

Last Altered: Wednesday, March 11, 2020 14:51:29 Pacific Daylight Time

Printed: Wednesday, March 11, 2020 14:51:42 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200311R1_1	CP200311R1_1 225 CPSM	11-Mar-20	08:42:09
2	200311R1_2	ST200311R1_1 1613 CS3 19L2305	11-Mar-20	09:12:24
3	200311R1_3	SOLVENT BLANK	11-Mar-20	09:43:19
4	200311R1_4	1903738-01RE1 PDI-059SC-B-00-02-191016 ...	11-Mar-20	10:13:49
5	200311R1_5	1903738-02RE1 PDI-059SC-B-02-04-191016 ...	11-Mar-20	10:44:12
6	200311R1_6	1903738-05RE1 PDI-069SC-B-00-02-191016 ...	11-Mar-20	11:14:39
7	200311R1_7	1903738-06RE1 PDI-069SC-B-02-04-191016 ...	11-Mar-20	11:45:07
8	200311R1_8	1903738-07RE1 PDI-069SC-B-04-06-191016 ...	11-Mar-20	12:15:34
9	200311R1_9	1903738-08RE1 PDI-069SC-B-06-08-191016 ...	11-Mar-20	12:46:02
10	200311R1_10	B0A0040-DUP1 Duplicate 14.56	11-Mar-20	13:16:30
11	200311R1_11	1904337-01RE1 PDI-034SC-A-02-03-191022 ...	11-Mar-20	13:46:57
12	200311R1_12	1904337-03RE1 PDI-057SC-A-04-05-191023 ...	11-Mar-20	14:17:26

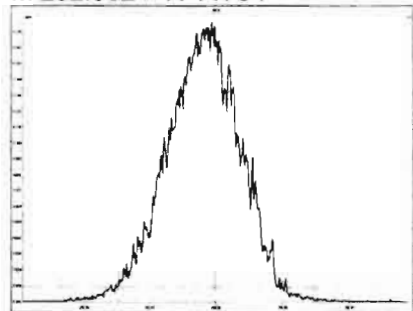
Experiment Calibration Report

MassLynx 4.1 SCN815

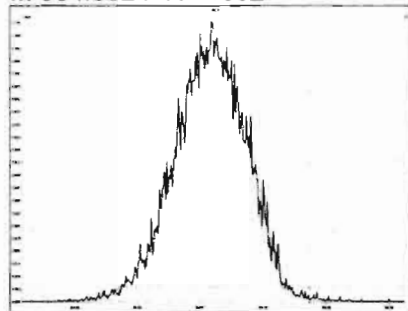
File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, March 11, 2020 08:41:34 Pacific Daylight Time

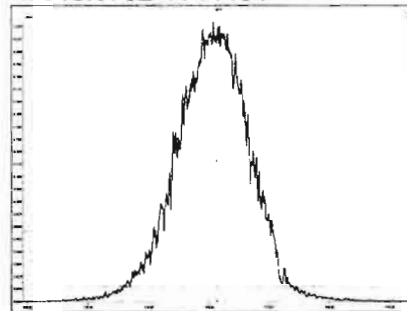
M 292.9824 R 11794



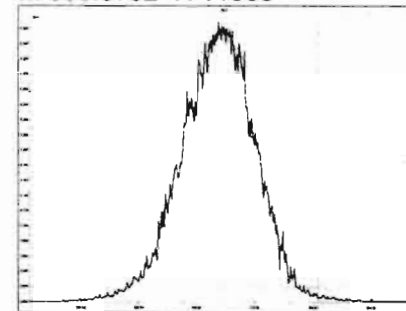
M 304.9824 R 11682



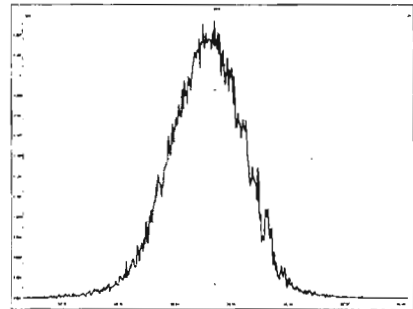
M 318.9792 R 11164



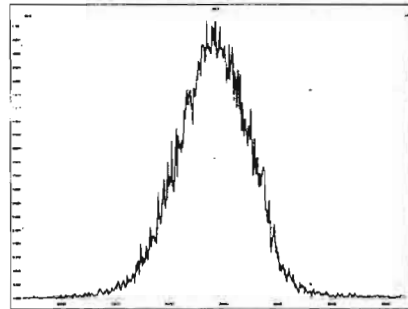
M 330.9792 R 11365



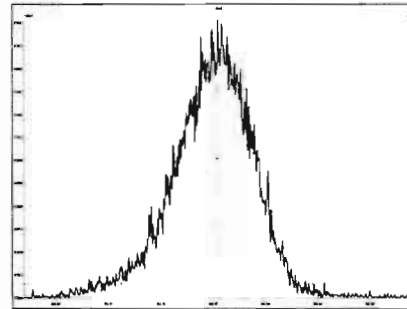
M 342.9792 R 11260



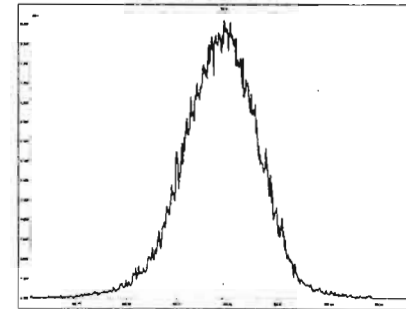
M 354.9792 R 11361



M 366.9792 R 10416



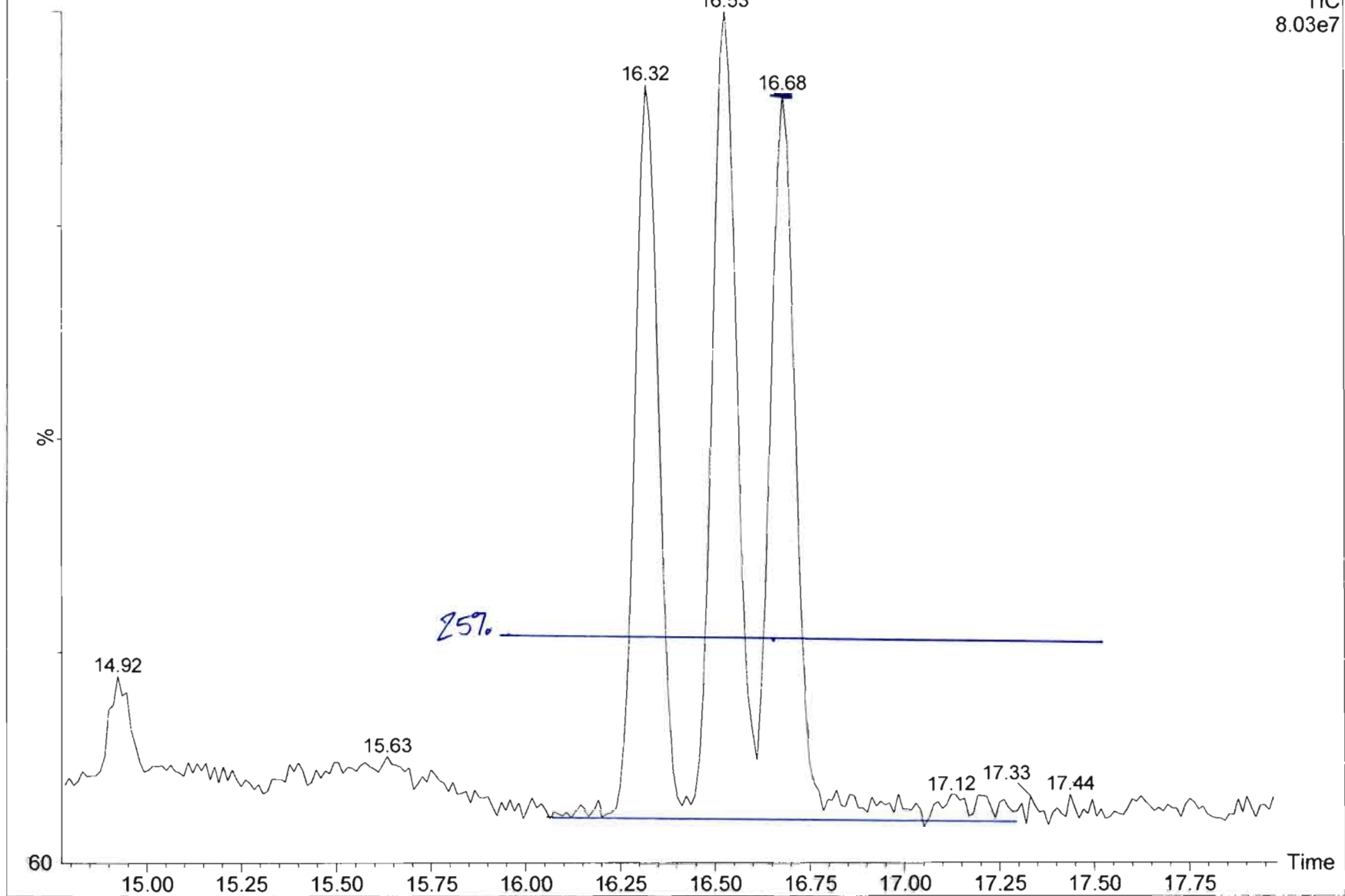
M 380.9760 R 10774



GRB 03/11/2020

225 CPSM
200311R1_1

Voltage SIR 12 Channels EI+
TIC
8.03e7



Dataset: U:\VG12.PRO\Results\200311R1\200311R1-2.qld

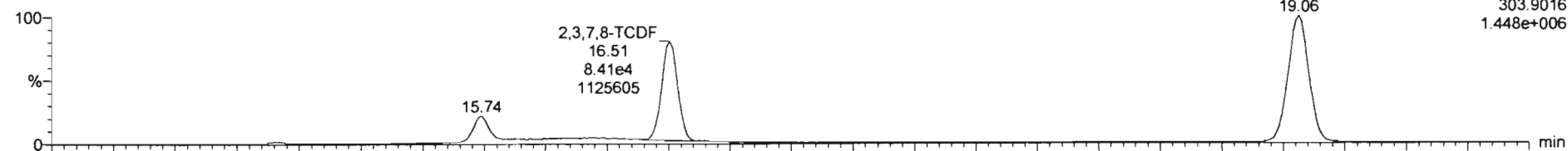
Last Altered: Wednesday, March 11, 2020 09:42:56 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 09:44:30 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 11 Mar 2020 07:47:30
Calibration: U:\VG12.PRO\CurveDB\lb225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

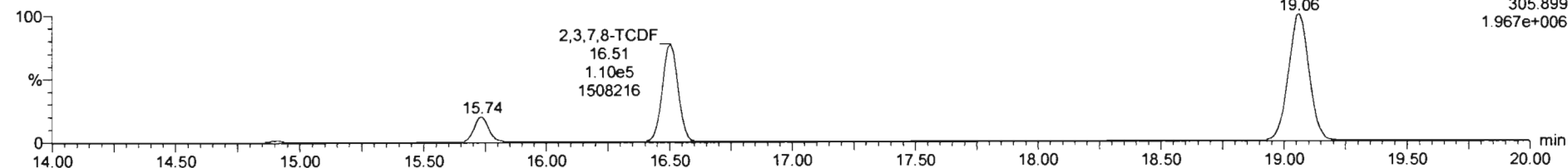
Name: 200311R1_2, Date: 11-Mar-2020, Time: 09:12:24, ID: ST200311R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200311R1_2

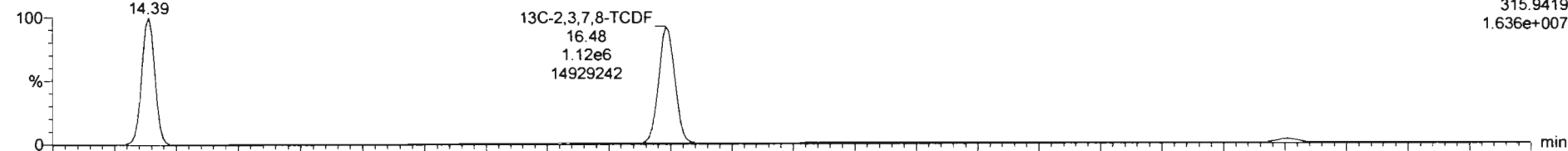


200311R1_2

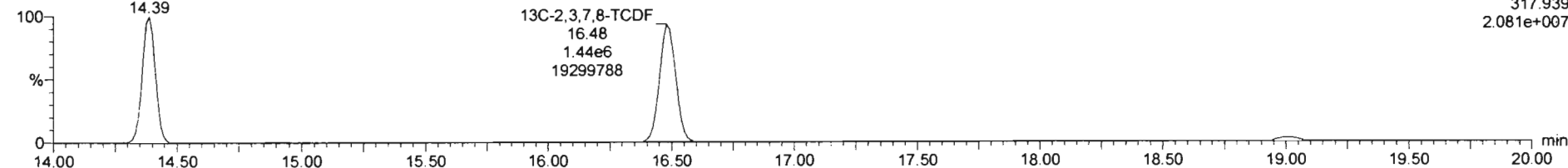


13C-2,3,7,8-TCDF

200311R1_2



200311R1_2



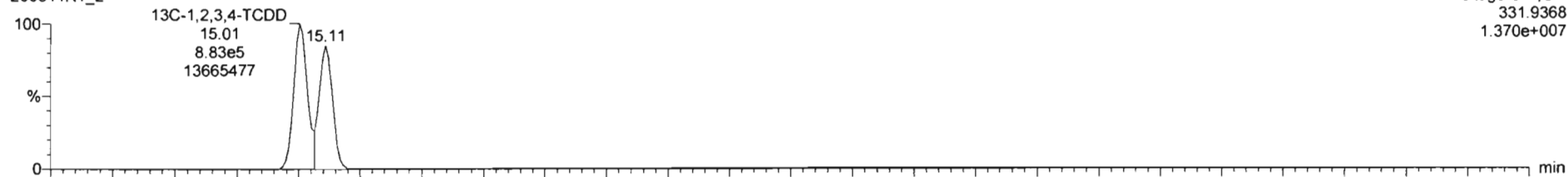
Dataset: U:\VG12.PRO\Results\200311R1\200311R1-2.qld

Last Altered: Wednesday, March 11, 2020 09:42:56 Pacific Daylight Time
Printed: Wednesday, March 11, 2020 09:44:30 Pacific Daylight Time

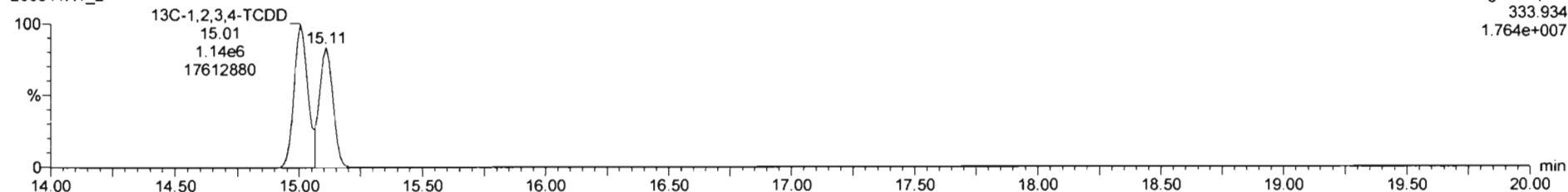
Name: 200311R1_2, Date: 11-Mar-2020, Time: 09:12:24, ID: ST200311R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200311R1_2

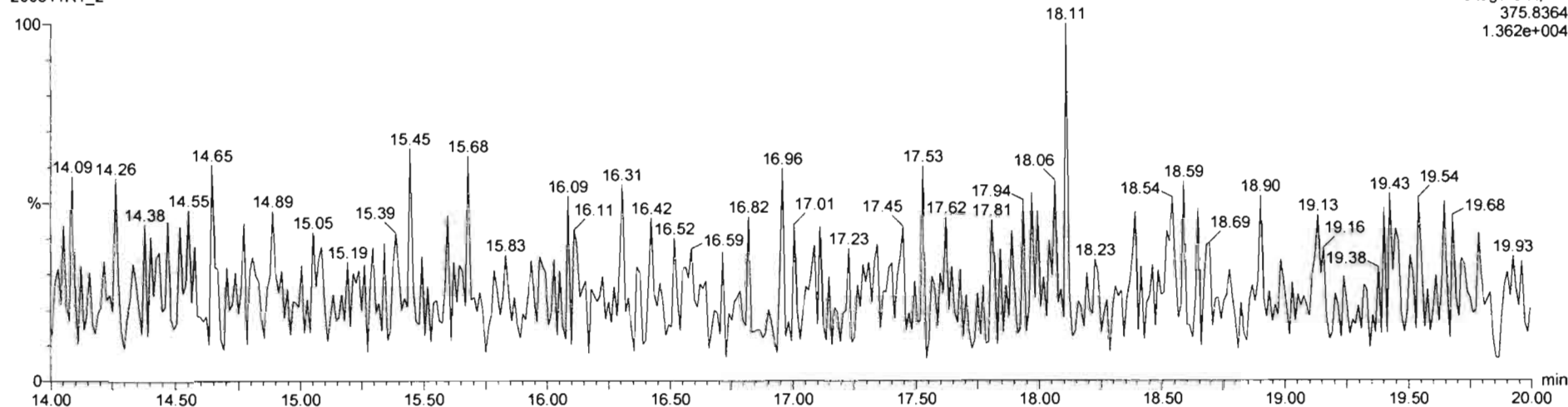


200311R1_2



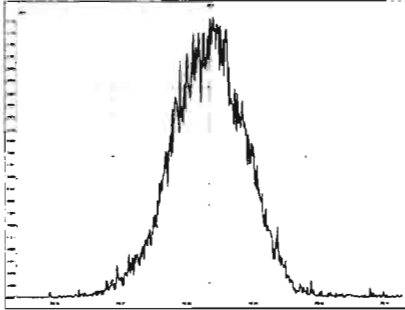
DPE1

200311R1_2

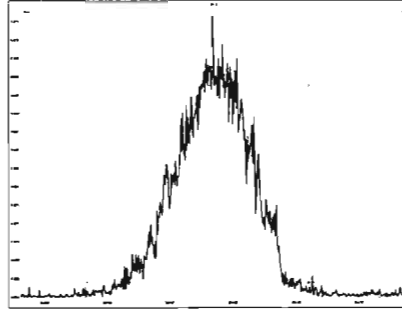


Printed: Wednesday, March 11, 2020 14:49:46 Pacific Daylight Time

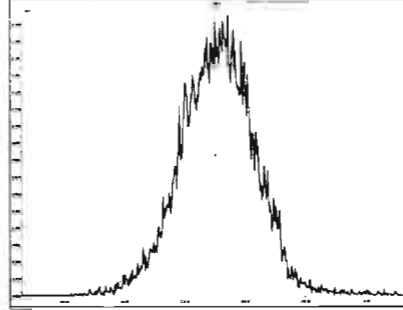
M 292.9824 R 11364



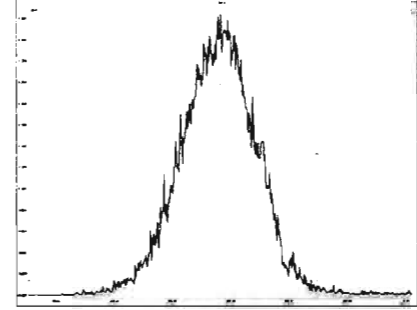
M 304.9824 R 11820



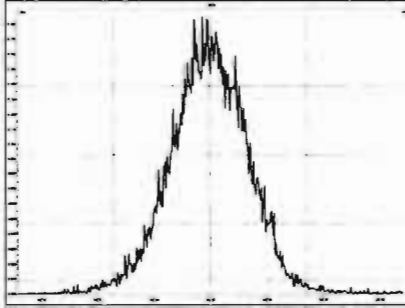
M 318.9792 R 11494



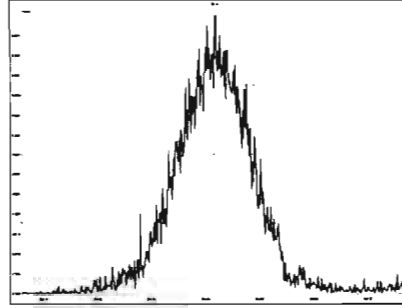
M 330.9792 R 11441



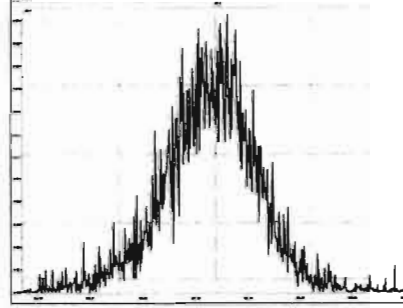
M 342.9792 R 11421



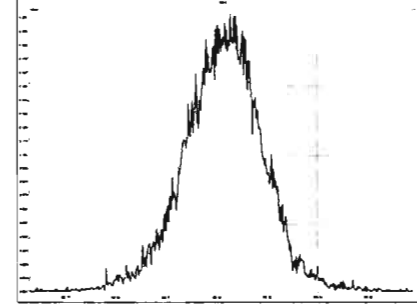
M 354.9792 R 12634



M 366.9792 R 10650



M 380.9760 R 10706



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

GRB 02/02/2020

C: 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

Response Factor: 0.988069

RRF SD: 0.0483829, Relative SD: 4.89671

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	200131R1_1	0.250	0.83	NO	25.74	1.001	2.87e3	1.21e6	0.239	-4.3	0.945	bb
2	200131R1_2	0.500	0.77	NO	25.69	1.001	7.22e3	1.37e6	0.532	6.5	1.05	bb
3	200131R1_3	2.00	0.80	NO	25.70	1.001	3.00e4	1.44e6	2.11	5.7	1.04	bb
4	200131R1_4	10.0	0.78	NO	25.70	1.001	1.39e5	1.42e6	9.92	-0.8	0.980	db
5	200131R1_5	40.0	0.77	NO	25.69	1.001	5.51e5	1.45e6	38.3	-4.2	0.946	bb
6	200131R1_6	300	0.78	NO	25.70	1.001	5.05e6	1.75e6	291	-2.9	0.960	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.972284

RRF SD: 0.054098, Relative SD: 5.56402

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	200131R1_1	1.25	0.57	NO	30.67	1.000	1.12e4	9.52e5	1.21	-3.0	0.943	bb
2	200131R1_2	2.50	0.60	NO	30.64	1.001	2.75e4	1.05e6	2.70	7.9	1.05	bb
3	200131R1_3	10.0	0.63	NO	30.64	1.000	1.18e5	1.14e6	10.6	6.4	1.03	bb
4	200131R1_4	50.0	0.63	NO	30.64	1.000	5.09e5	1.09e6	48.2	-3.7	0.936	bb
5	200131R1_5	200	0.63	NO	30.62	1.000	2.30e6	1.23e6	192	-4.2	0.931	bb
6	200131R1_6	1500	0.63	NO	30.64	1.000	2.16e7	1.53e6	1450	-3.4	0.940	bb

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-CRV.qld

Last Altered: Sunday, February 02, 2020 11:05:29 AM Pacific Standard Time
 Printed: Sunday, February 02, 2020 11:14:39 AM Pacific Standard Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.07079
 RRF SD: 0.0439702, Relative SD: 4.10634
 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	200131R1_1	1.25	1.18	NO	34.01	1.001	9.84e3	7.72e5	1.19	-4.8	1.02	MM
2	200131R1_2	2.50	1.28	NO	33.98	1.001	2.47e4	8.79e5	2.62	4.9	1.12	bd
3	200131R1_3	10.0	1.23	NO	33.98	1.000	1.09e5	9.69e5	10.5	5.2	1.13	bd
4	200131R1_4	50.0	1.22	NO	33.99	1.000	4.82e5	9.08e5	49.6	-0.8	1.06	bd
5	200131R1_5	200	1.27	NO	33.97	1.000	2.18e6	1.04e6	195	-2.7	1.04	bd
6	200131R1_6	1500	1.21	NO	33.99	1.000	2.05e7	1.30e6	1470	-1.8	1.05	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.921124
 RRF SD: 0.0705821, Relative SD: 7.66261
 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	200131R1_1	1.25	1.14	NO	34.10	1.000	1.01e4	9.31e5	1.18	-5.8	0.868	MM
2	200131R1_2	2.50	1.28	NO	34.08	1.001	2.68e4	1.05e6	2.78	11.2	1.02	db
3	200131R1_3	10.0	1.21	NO	34.08	1.000	1.13e5	1.13e6	10.8	8.3	0.998	db
4	200131R1_4	50.0	1.22	NO	34.09	1.001	4.87e5	1.11e6	47.7	-4.7	0.878	db
5	200131R1_5	200	1.17	NO	34.07	1.000	2.21e6	1.24e6	193	-3.4	0.890	db
6	200131R1_6	1500	1.22	NO	34.09	1.001	2.03e7	1.56e6	1410	-5.7	0.868	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.9182
 RRF SD: 0.0596016, Relative SD: 6.49114
 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	200131R1_1	1.25	1.36	NO	34.38	1.000	9.78e3	9.08e5	1.17	-6.1	0.862	MM
2	200131R1_2	2.50	1.21	NO	34.35	1.000	2.43e4	9.77e5	2.71	8.3	0.995	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	200131R1_3	10.0	1.18	NO	34.36	1.000	1.03e5	1.04e6	10.8	8.0	0.991	bb
4	200131R1_4	50.0	1.22	NO	34.37	1.001	4.43e5	1.02e6	47.4	-5.3	0.870	bb
5	200131R1_5	200	1.22	NO	34.35	1.001	2.05e6	1.15e6	195	-2.7	0.893	bb
6	200131R1_6	1500	1.22	NO	34.37	1.001	1.94e7	1.44e6	1470	-2.2	0.898	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.923064
 RRF SD: 0.0512135, Relative SD: 5.54821
 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	200131R1_1	1.25	1.04	NO	37.92	1.000	8.20e3	7.05e5	1.26	0.7	0.930	bb
2	200131R1_2	2.50	1.06	NO	37.88	1.000	1.88e4	7.60e5	2.69	7.4	0.991	bb
3	200131R1_3	10.0	1.02	NO	37.90	1.001	7.44e4	7.62e5	10.6	5.8	0.976	bb
4	200131R1_4	50.0	1.01	NO	37.90	1.000	3.45e5	7.83e5	47.7	-4.7	0.880	bb
5	200131R1_5	200	1.00	NO	37.88	1.000	1.57e6	8.87e5	192	-4.0	0.886	bb
6	200131R1_6	1500	1.01	NO	37.91	1.001	1.45e7	1.10e6	1420	-5.2	0.875	bb

Compound name: OCDD

Response Factor: 0.974578
 RRF SD: 0.0610366, Relative SD: 6.26287
 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	200131R1_1	2.50	0.90	NO	40.92	1.000	1.61e4	1.29e6	2.55	2.2	0.996	bd
2	200131R1_2	5.00	0.89	NO	40.90	1.000	3.84e4	1.46e6	5.41	8.2	1.05	bd
3	200131R1_3	20.0	0.88	NO	40.90	1.000	1.46e5	1.41e6	21.2	5.9	1.03	bd
4	200131R1_4	100	0.86	NO	40.90	1.000	6.76e5	1.48e6	93.7	-6.3	0.914	MM
5	200131R1_5	400	0.87	NO	40.90	1.000	3.13e6	1.69e6	379	-5.2	0.924	bb
6	200131R1_6	3000	0.83	NO	40.92	1.000	2.97e7	2.14e6	2850	-4.8	0.927	bb

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Compound name: 2,3,7,8-TCDF

Response Factor: 0.801975

RRF SD: 0.0524877, Relative SD: 6.54481

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	200131R1_1	0.250	0.73	NO	24.85	1.001	3.48e3	1.69e6	0.257	2.8	0.824	bb
2	200131R1_2	0.500	0.74	NO	24.82	1.001	8.24e3	1.87e6	0.549	9.9	0.881	bb
3	200131R1_3	2.00	0.71	NO	24.82	1.001	3.25e4	1.95e6	2.08	4.0	0.834	bb
4	200131R1_4	10.0	0.73	NO	24.82	1.001	1.47e5	1.92e6	9.50	-5.0	0.762	bb
5	200131R1_5	40.0	0.74	NO	24.81	1.001	5.87e5	1.96e6	37.3	-6.7	0.748	bb
6	200131R1_6	300	0.74	NO	24.82	1.001	5.37e6	2.35e6	285	-4.9	0.763	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.907368

RRF SD: 0.0556686, Relative SD: 6.13518

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	200131R1_1	1.25	1.54	NO	29.39	1.000	1.54e4	1.46e6	1.16	-7.1	0.843	MM
2	200131R1_2	2.50	1.49	NO	29.35	1.000	4.02e4	1.66e6	2.66	6.5	0.967	bb
3	200131R1_3	10.0	1.55	NO	29.35	1.000	1.82e5	1.85e6	10.8	8.5	0.984	bb
4	200131R1_4	50.0	1.54	NO	29.37	1.000	7.66e5	1.72e6	49.2	-1.7	0.892	bb
5	200131R1_5	200	1.53	NO	29.34	1.000	3.44e6	1.96e6	193	-3.5	0.875	bb
6	200131R1_6	1500	1.52	NO	29.37	1.000	3.24e7	2.45e6	1460	-2.7	0.883	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 0.951581

RRF SD: 0.0710528, Relative SD: 7.46682

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	200131R1_1	1.25	1.39	NO	30.36	1.000	1.52e4	1.40e6	1.14	-9.0	0.866	bb
2	200131R1_2	2.50	1.49	NO	30.33	1.000	4.18e4	1.60e6	2.74	9.7	1.04	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	200131R1_3	10.0	1.52	NO	30.33	1.000	1.83e5	1.77e6	10.9	8.5	1.03	bb
4	200131R1_4	50.0	1.52	NO	30.33	1.000	7.42e5	1.63e6	48.0	-4.1	0.913	bb
5	200131R1_5	200	1.52	NO	30.32	1.000	3.55e6	1.92e6	195	-2.7	0.926	bb
6	200131R1_6	1500	1.53	NO	30.33	1.000	3.27e7	2.35e6	1460	-2.5	0.928	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.862294

RRF SD: 0.0432122, Relative SD: 5.0113

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	200131R1_1	1.25	1.16	NO	33.13	1.000	1.04e4	9.82e5	1.22	-2.1	0.844	MM
2	200131R1_2	2.50	1.16	NO	33.10	1.000	2.37e4	1.03e6	2.66	6.4	0.917	bd
3	200131R1_3	10.0	1.18	NO	33.11	1.000	1.05e5	1.14e6	10.6	6.5	0.918	bd
4	200131R1_4	50.0	1.16	NO	33.13	1.000	4.53e5	1.09e6	48.4	-3.3	0.834	dd
5	200131R1_5	200	1.16	NO	33.10	1.001	2.04e6	1.23e6	192	-4.1	0.827	bd
6	200131R1_6	1500	1.16	NO	33.12	1.000	1.94e7	1.55e6	1450	-3.4	0.833	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.841382

RRF SD: 0.0466581, Relative SD: 5.54541

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	200131R1_1	1.25	1.21	NO	33.26	1.001	1.06e4	1.07e6	1.17	-6.2	0.789	MM
2	200131R1_2	2.50	1.19	NO	33.23	1.001	2.67e4	1.18e6	2.69	7.5	0.904	MM
3	200131R1_3	10.0	1.15	NO	33.24	1.001	1.15e5	1.29e6	10.6	6.3	0.894	db
4	200131R1_4	50.0	1.16	NO	33.24	1.000	5.01e5	1.23e6	48.3	-3.3	0.813	db
5	200131R1_5	200	1.15	NO	33.22	1.000	2.41e6	1.46e6	196	-1.9	0.825	db
6	200131R1_6	1500	1.16	NO	33.24	1.000	2.16e7	1.75e6	1470	-2.3	0.822	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 0.898194

RRF SD: 0.0533025, Relative SD: 5.9344

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	200131R1_1	1.25	1.07	NO	33.84	1.000	1.01e4	9.62e5	1.17	-6.1	0.844	bb
2	200131R1_2	2.50	1.21	NO	33.81	1.000	2.55e4	1.06e6	2.67	6.7	0.958	bb
3	200131R1_3	10.0	1.14	NO	33.82	1.001	1.14e5	1.17e6	10.8	8.3	0.972	bb
4	200131R1_4	50.0	1.16	NO	33.82	1.000	4.82e5	1.11e6	48.4	-3.3	0.869	bb
5	200131R1_5	200	1.17	NO	33.80	1.000	2.21e6	1.27e6	194	-2.8	0.873	bb
6	200131R1_6	1500	1.17	NO	33.82	1.000	2.08e7	1.59e6	1460	-2.8	0.873	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.857779

RRF SD: 0.0530165, Relative SD: 6.18067

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	200131R1_1	1.25	1.12	NO	34.74	1.000	9.51e3	8.96e5	1.24	-1.0	0.849	bb
2	200131R1_2	2.50	1.18	NO	34.71	1.000	2.15e4	9.11e5	2.76	10.2	0.946	bb
3	200131R1_3	10.0	1.17	NO	34.72	1.001	8.71e4	9.71e5	10.5	4.6	0.897	MM
4	200131R1_4	50.0	1.15	NO	34.72	1.000	3.90e5	9.57e5	47.6	-4.9	0.816	bb
5	200131R1_5	200	1.16	NO	34.70	1.000	1.74e6	1.06e6	191	-4.6	0.818	bb
6	200131R1_6	1500	1.17	NO	34.72	1.000	1.68e7	1.37e6	1430	-4.4	0.820	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 0.851072

RRF SD: 0.0458765, Relative SD: 5.39044

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	200131R1_1	1.25	0.94	NO	36.48	1.000	7.60e3	7.37e5	1.21	-3.0	0.826	bb
2	200131R1_2	2.50	0.99	NO	36.47	1.001	1.79e4	7.82e5	2.70	7.9	0.918	bd

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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	200131R1_3	10.0	0.96	NO	36.46	1.000	7.21e4	8.00e5	10.6	5.9	0.901	bd
4	200131R1_4	50.0	0.96	NO	36.47	1.001	3.29e5	8.01e5	48.2	-3.5	0.821	bb
5	200131R1_5	200	0.97	NO	36.45	1.000	1.46e6	8.88e5	193	-3.4	0.822	bb
6	200131R1_6	1500	0.96	NO	36.47	1.000	1.37e7	1.12e6	1440	-3.9	0.818	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 0.979894

RRF SD: 0.0488516, Relative SD: 4.9854

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	200131R1_1	1.25	0.96	NO	38.50	1.000	5.89e3	5.04e5	1.19	-4.7	0.934	MM
2	200131R1_2	2.50	0.97	NO	38.48	1.000	1.47e4	5.63e5	2.66	6.4	1.04	bb
3	200131R1_3	10.0	0.96	NO	38.49	1.000	5.91e4	5.68e5	10.6	6.2	1.04	bb
4	200131R1_4	50.0	0.97	NO	38.50	1.000	2.74e5	5.80e5	48.2	-3.6	0.945	bb
5	200131R1_5	200	0.96	NO	38.48	1.000	1.25e6	6.58e5	194	-2.9	0.952	bb
6	200131R1_6	1500	0.96	NO	38.50	1.000	1.20e7	8.31e5	1480	-1.5	0.966	bb

Compound name: OCDF

Response Factor: 0.805548

RRF SD: 0.0471476, Relative SD: 5.85286

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	200131R1_1	2.50	0.85	NO	41.10	1.000	1.39e4	1.44e6	2.40	-4.0	0.773	bb
2	200131R1_2	5.00	0.87	NO	41.08	1.000	3.50e4	1.59e6	5.46	9.2	0.880	bb
3	200131R1_3	20.0	0.87	NO	41.09	1.000	1.37e5	1.61e6	21.1	5.5	0.850	MM
4	200131R1_4	100	0.85	NO	41.10	1.000	6.45e5	1.67e6	95.6	-4.4	0.770	bb
5	200131R1_5	400	0.86	NO	41.09	1.000	2.92e6	1.87e6	388	-3.1	0.781	bb
6	200131R1_6	3000	0.86	NO	41.10	1.000	2.81e7	2.40e6	2900	-3.3	0.779	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.19852

RRF SD: 0.0939444, Relative SD: 7.83835

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	200131R1_1	100	0.79	NO	25.72	1.026	1.21e6	9.30e5	109	9.0	1.31	bb
2	200131R1_2	100	0.79	NO	25.67	1.026	1.37e6	1.27e6	90.2	-9.8	1.08	bb
3	200131R1_3	100	0.79	NO	25.67	1.026	1.44e6	1.31e6	91.3	-8.7	1.09	bb
4	200131R1_4	100	0.79	NO	25.67	1.026	1.42e6	1.19e6	99.9	-0.1	1.20	bb
5	200131R1_5	100	0.80	NO	25.66	1.026	1.45e6	1.18e6	103	2.7	1.23	bb
6	200131R1_6	100	0.78	NO	25.69	1.026	1.75e6	1.37e6	107	6.9	1.28	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.966657

RRF SD: 0.113301, Relative SD: 11.7209

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	200131R1_1	100	0.64	NO	30.65	1.222	9.52e5	9.30e5	106	5.9	1.02	bb
2	200131R1_2	100	0.63	NO	30.61	1.223	1.05e6	1.27e6	85.4	-14.6	0.826	bb
3	200131R1_3	100	0.64	NO	30.62	1.223	1.14e6	1.31e6	90.0	-10.0	0.870	bb
4	200131R1_4	100	0.65	NO	30.62	1.223	1.09e6	1.19e6	95.0	-5.0	0.918	bb
5	200131R1_5	100	0.64	NO	30.61	1.223	1.23e6	1.18e6	108	7.9	1.04	bb
6	200131R1_6	100	0.64	NO	30.62	1.223	1.53e6	1.37e6	116	15.8	1.12	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.873915

RRF SD: 0.0797425, Relative SD: 9.12474

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	200131R1_1	100	1.26	NO	33.99	1.014	7.72e5	8.41e5	105	5.1	0.918	bd
2	200131R1_2	100	1.27	NO	33.96	1.014	8.79e5	1.13e6	89.1	-10.9	0.778	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	200131R1_3	100	1.28	NO	33.97	1.014	9.69e5	1.23e6	90.5	-9.5	0.791	bd
4	200131R1_4	100	1.26	NO	33.98	1.014	9.08e5	1.05e6	98.8	-1.2	0.863	bd
5	200131R1_5	100	1.27	NO	33.96	1.014	1.04e6	1.15e6	104	3.8	0.907	bd
6	200131R1_6	100	1.28	NO	33.98	1.014	1.30e6	1.32e6	113	12.8	0.986	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 1.04579

RRF SD: 0.10317, Relative SD: 9.86527

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	200131R1_1	100	1.24	NO	34.09	1.017	9.31e5	8.41e5	106	5.9	1.11	db
2	200131R1_2	100	1.25	NO	34.06	1.017	1.05e6	1.13e6	88.6	-11.4	0.927	db
3	200131R1_3	100	1.25	NO	34.07	1.017	1.13e6	1.23e6	88.2	-11.8	0.923	db
4	200131R1_4	100	1.25	NO	34.07	1.017	1.11e6	1.05e6	101	0.9	1.05	db
5	200131R1_5	100	1.26	NO	34.06	1.017	1.24e6	1.15e6	103	3.3	1.08	db
6	200131R1_6	100	1.27	NO	34.07	1.017	1.56e6	1.32e6	113	13.1	1.18	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.974375

RRF SD: 0.10254, Relative SD: 10.5236

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	200131R1_1	100	1.26	NO	34.37	1.025	9.08e5	8.41e5	111	10.8	1.08	bb
2	200131R1_2	100	1.24	NO	34.34	1.025	9.77e5	1.13e6	88.8	-11.2	0.865	bb
3	200131R1_3	100	1.23	NO	34.35	1.025	1.04e6	1.23e6	87.1	-12.9	0.848	bb
4	200131R1_4	100	1.26	NO	34.35	1.025	1.02e6	1.05e6	99.4	-0.6	0.968	bb
5	200131R1_5	100	1.22	NO	34.33	1.025	1.15e6	1.15e6	102	2.1	0.995	bb
6	200131R1_6	100	1.27	NO	34.35	1.025	1.44e6	1.32e6	112	11.8	1.09	bb

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

Response Factor: 0.747228

RRF SD: 0.0868418, Relative SD: 11.6219

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	200131R1_1	100	1.04	NO	37.91	1.131	7.05e5	8.41e5	112	12.3	0.839	bb
2	200131R1_2	100	1.03	NO	37.88	1.131	7.60e5	1.13e6	90.0	-10.0	0.673	bb
3	200131R1_3	100	1.05	NO	37.88	1.131	7.62e5	1.23e6	83.2	-16.8	0.622	bb
4	200131R1_4	100	1.05	NO	37.88	1.131	7.83e5	1.05e6	99.7	-0.3	0.745	bb
5	200131R1_5	100	1.05	NO	37.88	1.131	8.87e5	1.15e6	103	3.2	0.771	bb
6	200131R1_6	100	1.03	NO	37.88	1.131	1.10e6	1.32e6	112	11.6	0.834	bb

Compound name: 13C-OCDD

Response Factor: 0.706533

RRF SD: 0.0850665, Relative SD: 12.04

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	200131R1_1	200	0.89	NO	40.90	1.220	1.29e6	8.41e5	218	8.9	0.770	bb
2	200131R1_2	200	0.92	NO	40.88	1.221	1.46e6	1.13e6	183	-8.6	0.646	bd
3	200131R1_3	200	0.90	NO	40.89	1.221	1.41e6	1.23e6	163	-18.5	0.575	bb
4	200131R1_4	200	0.90	NO	40.90	1.221	1.48e6	1.05e6	199	-0.4	0.704	bb
5	200131R1_5	200	0.86	NO	40.89	1.221	1.69e6	1.15e6	208	4.0	0.735	bb
6	200131R1_6	200	0.84	NO	40.90	1.221	2.14e6	1.32e6	229	14.6	0.809	bb

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.06529

RRF SD: 0.0915828, Relative SD: 8.59701

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	200131R1_1	100	0.77	NO	24.84	0.990	1.69e6	1.42e6	112	11.8	1.19	bb
2	200131R1_2	100	0.78	NO	24.79	0.990	1.87e6	1.95e6	89.9	-10.1	0.958	bb

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	100	0.76	NO	24.79	0.990	1.95e6	2.03e6	90.3	-9.7	0.962	bb
4	200131R1_4	100	0.77	NO	24.79	0.990	1.92e6	1.80e6	100	0.3	1.07	bb
5	200131R1_5	100	0.77	NO	24.78	0.990	1.96e6	1.80e6	103	2.6	1.09	bb
6	200131R1_6	100	0.77	NO	24.81	0.990	2.35e6	2.10e6	105	5.1	1.12	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 1.00172

RRF SD: 0.117905, Relative SD: 11.7703

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	200131R1_1	100	1.57	NO	29.37	1.171	1.46e6	1.42e6	103	3.0	1.03	bb
2	200131R1_2	100	1.56	NO	29.34	1.172	1.66e6	1.95e6	84.9	-15.1	0.851	bb
3	200131R1_3	100	1.61	NO	29.34	1.172	1.85e6	2.03e6	91.2	-8.8	0.914	bb
4	200131R1_4	100	1.59	NO	29.35	1.173	1.72e6	1.80e6	95.2	-4.8	0.953	bb
5	200131R1_5	100	1.60	NO	29.32	1.172	1.96e6	1.80e6	109	9.1	1.09	bb
6	200131R1_6	100	1.59	NO	29.35	1.172	2.45e6	2.10e6	117	16.5	1.17	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.961692

RRF SD: 0.117094, Relative SD: 12.1758

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	200131R1_1	100	1.59	NO	30.35	1.210	1.40e6	1.42e6	103	2.7	0.988	db
2	200131R1_2	100	1.59	NO	30.32	1.211	1.60e6	1.95e6	85.2	-14.8	0.820	db
3	200131R1_3	100	1.56	NO	30.32	1.211	1.77e6	2.03e6	90.8	-9.2	0.873	bb
4	200131R1_4	100	1.61	NO	30.32	1.211	1.63e6	1.80e6	93.8	-6.2	0.902	db
5	200131R1_5	100	1.59	NO	30.30	1.211	1.92e6	1.80e6	111	10.9	1.07	db
6	200131R1_6	100	1.62	NO	30.33	1.211	2.35e6	2.10e6	117	16.5	1.12	db

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.0492

RRF SD: 0.111678, Relative SD: 10.6441

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	200131R1_1	100	0.51	NO	33.13	0.988	9.82e5	8.41e5	111	11.3	1.17	bd
2	200131R1_2	100	0.50	NO	33.09	0.988	1.03e6	1.13e6	87.3	-12.7	0.915	bd
3	200131R1_3	100	0.51	NO	33.10	0.988	1.14e6	1.23e6	88.8	-11.2	0.932	bd
4	200131R1_4	100	0.50	NO	33.11	0.988	1.09e6	1.05e6	98.5	-1.5	1.03	bd
5	200131R1_5	100	0.51	NO	33.08	0.988	1.23e6	1.15e6	102	2.0	1.07	bd
6	200131R1_6	100	0.50	NO	33.11	0.989	1.55e6	1.32e6	112	12.1	1.18	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.18988

RRF SD: 0.120357, Relative SD: 10.1151

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	200131R1_1	100	0.51	NO	33.24	0.992	1.07e6	8.41e5	107	7.4	1.28	db
2	200131R1_2	100	0.50	NO	33.21	0.992	1.18e6	1.13e6	88.0	-12.0	1.05	db
3	200131R1_3	100	0.51	NO	33.22	0.992	1.29e6	1.23e6	88.2	-11.8	1.05	db
4	200131R1_4	100	0.51	NO	33.23	0.992	1.23e6	1.05e6	98.5	-1.5	1.17	db
5	200131R1_5	100	0.51	NO	33.21	0.992	1.46e6	1.15e6	107	6.7	1.27	db
6	200131R1_6	100	0.51	NO	33.23	0.992	1.75e6	1.32e6	111	11.2	1.32	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.06623

RRF SD: 0.103589, Relative SD: 9.71549

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	200131R1_1	100	0.51	NO	33.83	1.009	9.62e5	8.41e5	107	7.2	1.14	bb
2	200131R1_2	100	0.50	NO	33.80	1.009	1.06e6	1.13e6	88.4	-11.6	0.943	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	200131R1_3	100	0.51	NO	33.79	1.009	1.17e6	1.23e6	89.3	-10.7	0.953	bb
4	200131R1_4	100	0.51	NO	33.81	1.009	1.11e6	1.05e6	99.0	-1.0	1.06	bb
5	200131R1_5	100	0.51	NO	33.78	1.009	1.27e6	1.15e6	103	3.4	1.10	bb
6	200131R1_6	100	0.50	NO	33.81	1.009	1.59e6	1.32e6	113	12.6	1.20	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.922357

RRF SD: 0.112781, Relative SD: 12.2275

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	200131R1_1	100	0.52	NO	34.73	1.036	8.96e5	8.41e5	115	15.5	1.07	bd
2	200131R1_2	100	0.50	NO	34.70	1.036	9.11e5	1.13e6	87.5	-12.5	0.807	bb
3	200131R1_3	100	0.50	NO	34.70	1.036	9.71e5	1.23e6	85.9	-14.1	0.793	bb
4	200131R1_4	100	0.51	NO	34.71	1.036	9.57e5	1.05e6	98.7	-1.3	0.910	bb
5	200131R1_5	100	0.50	NO	34.69	1.036	1.06e6	1.15e6	100	0.1	0.923	bb
6	200131R1_6	100	0.52	NO	34.71	1.036	1.37e6	1.32e6	112	12.3	1.04	bb

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

Response Factor: 0.767165

RRF SD: 0.0861255, Relative SD: 11.2265

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	200131R1_1	100	0.44	NO	36.47	1.088	7.37e5	8.41e5	114	14.2	0.876	bb
2	200131R1_2	100	0.43	NO	36.44	1.088	7.82e5	1.13e6	90.2	-9.8	0.692	bb
3	200131R1_3	100	0.42	NO	36.45	1.088	8.00e5	1.23e6	85.1	-14.9	0.653	bb
4	200131R1_4	100	0.43	NO	36.45	1.088	8.01e5	1.05e6	99.3	-0.7	0.762	bb
5	200131R1_5	100	0.44	NO	36.44	1.088	8.88e5	1.15e6	101	0.6	0.772	bb
6	200131R1_6	100	0.44	NO	36.46	1.088	1.12e6	1.32e6	111	10.6	0.848	bb

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.552323
 RRF SD: 0.0621028, Relative SD: 11.2439
 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	200131R1_1	100	0.44	NO	38.50	1.149	5.04e5	8.41e5	109	8.5	0.600	MM
2	200131R1_2	100	0.43	NO	38.47	1.149	5.63e5	1.13e6	90.3	-9.7	0.499	bb
3	200131R1_3	100	0.44	NO	38.48	1.149	5.68e5	1.23e6	83.9	-16.1	0.464	bb
4	200131R1_4	100	0.43	NO	38.48	1.148	5.80e5	1.05e6	99.8	-0.2	0.551	bb
5	200131R1_5	100	0.43	NO	38.47	1.149	6.58e5	1.15e6	104	3.6	0.572	bb
6	200131R1_6	100	0.43	NO	38.49	1.149	8.31e5	1.32e6	114	13.9	0.629	bb

Compound name: 13C-OCDF

Response Factor: 0.78941
 RRF SD: 0.0937006, Relative SD: 11.8697
 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	200131R1_1	200	0.88	NO	41.10	1.226	1.44e6	8.41e5	217	8.5	0.856	bb
2	200131R1_2	200	0.86	NO	41.07	1.226	1.59e6	1.13e6	178	-10.8	0.704	bb
3	200131R1_3	200	0.84	NO	41.08	1.226	1.61e6	1.23e6	167	-16.6	0.658	bb
4	200131R1_4	200	0.87	NO	41.08	1.226	1.67e6	1.05e6	202	0.8	0.796	bb
5	200131R1_5	200	0.86	NO	41.07	1.227	1.87e6	1.15e6	206	2.8	0.812	bb
6	200131R1_6	200	0.87	NO	41.09	1.227	2.40e6	1.32e6	230	15.2	0.910	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17626
 RRF SD: 0.0677436, Relative SD: 5.75926
 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	200131R1_1	0.250			25.74	1.026	2.61e3	9.30e5	0.239	-4.6	1.12	bb
2	200131R1_2	0.500			25.70	1.027	7.49e3	1.27e6	0.502	0.3	1.18	bb

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Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200131R1_3	2.00			25.70	1.027	2.85e4	1.31e6	1.85	-7.7	1.09	bb
4	200131R1_4	10.0			25.70	1.027	1.40e5	1.19e6	10.0	0.4	1.18	bb
5	200131R1_5	40.0			25.69	1.027	5.71e5	1.18e6	41.0	2.6	1.21	bb
6	200131R1_6	200			25.70	1.026	3.51e6	1.37e6	218	8.9	1.28	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	200131R1_1	100	0.78	NO	25.08	1.000	9.30e5	9.30e5	100	0.0	1.00	bb
2	200131R1_2	100	0.80	NO	25.03	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
3	200131R1_3	100	0.80	NO	25.03	1.000	1.31e6	1.31e6	100	0.0	1.00	bb
4	200131R1_4	100	0.80	NO	25.03	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	25.02	1.000	1.18e6	1.18e6	100	0.0	1.00	bb
6	200131R1_6	100	0.80	NO	25.05	1.000	1.37e6	1.37e6	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	200131R1_1	100	0.79	NO	23.42	1.000	1.42e6	1.42e6	100	0.0	1.00	bd
2	200131R1_2	100	0.79	NO	23.35	1.000	1.95e6	1.95e6	100	0.0	1.00	bb
3	200131R1_3	100	0.79	NO	23.37	1.000	2.03e6	2.03e6	100	0.0	1.00	bb
4	200131R1_4	100	0.79	NO	23.37	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
5	200131R1_5	100	0.80	NO	23.35	1.000	1.80e6	1.80e6	100	0.0	1.00	bb
6	200131R1_6	100	0.79	NO	23.39	1.000	2.10e6	2.10e6	100	0.0	1.00	bb

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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	200131R1_1	100	0.51	NO	33.52	1.000	8.41e5	8.41e5	100	0.0	1.00	bb
2	200131R1_2	100	0.51	NO	33.49	1.000	1.13e6	1.13e6	100	0.0	1.00	bb
3	200131R1_3	100	0.51	NO	33.50	1.000	1.23e6	1.23e6	100	0.0	1.00	bb
4	200131R1_4	100	0.51	NO	33.51	1.000	1.05e6	1.05e6	100	0.0	1.00	bb
5	200131R1_5	100	0.51	NO	33.49	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
6	200131R1_6	100	0.51	NO	33.50	1.000	1.32e6	1.32e6	100	0.0	1.00	bb

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:48 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:18:51 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200131R1_1	ST200131R1_1 1613 CS0 19L2302	31-Jan-20	16:48:41
2	200131R1_2	ST200131R1_2 1613 CS1 19L2303	31-Jan-20	17:37:04
3	200131R1_3	ST200131R1_3 1613 CS2 19L2304	31-Jan-20	18:23:19
4	200131R1_4	ST200131R1_4 1613 CS3 19L2305	31-Jan-20	19:10:18
5	200131R1_5	ST200131R1_5 1613 CS4 19L2306	31-Jan-20	19:57:17
6	200131R1_6	ST200131R1_6 1613 CS5 19L2307	31-Jan-20	20:44:23
7	200131R1_7	SOLVENT BLANK	31-Jan-20	21:31:31
8	200131R1_8	SS200131R1_1 1613 SSS 19L2308	31-Jan-20	22:18:30
9	200131R1_9	ST200131R1_7 1613 CS3 19I1604	31-Jan-20	23:05:36
10	200131R1_10	B0A0133-BS1 OPR 1	31-Jan-20	23:52:35
11	200131R1_11	B0A0226-BS1 OPR 10	01-Feb-20	00:39:35
12	200131R1_12	SOLVENT BLANK	01-Feb-20	01:26:32
13	200131R1_13	B0A0133-BLK1 Method Blank 1	01-Feb-20	02:13:32
14	200131R1_14	B0A0226-BLK1 Method Blank 10	01-Feb-20	03:00:32
15	200131R1_15	1904161-10RE1 PDI-046SC-A-02-03-191001 ...	01-Feb-20	03:47:38
16	200131R1_16	1904161-16RE1 PDI-066SC-A-06-07-191011 ...	01-Feb-20	04:34:37
17	200131R1_17	1904207-04RE1 PDI-076SC-A-05-06-191013 ...	01-Feb-20	05:21:38
18	200131R1_18	1903647-05@2X PDI-067SC-B-06-08-191010 ...	01-Feb-20	06:08:35
19	200131R1_19	1903647-02@10X PDI-067SC-B-00-02-19101...	01-Feb-20	06:55:34

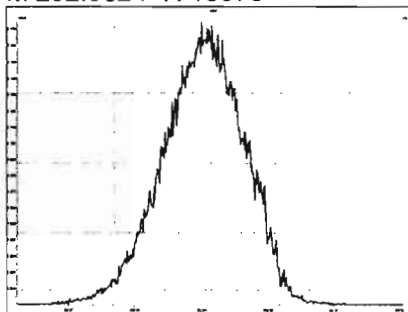
Experiment Calibration Report

MassLynx 4.1 SCN815

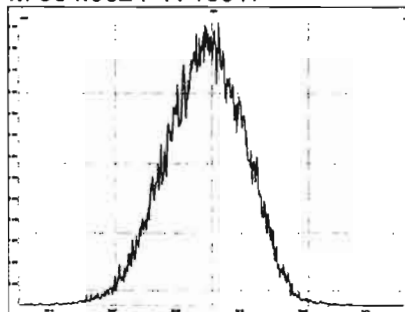
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:41:39 Pacific Standard Time

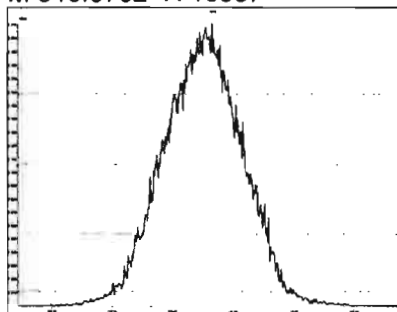
M 292.9824 R 10370



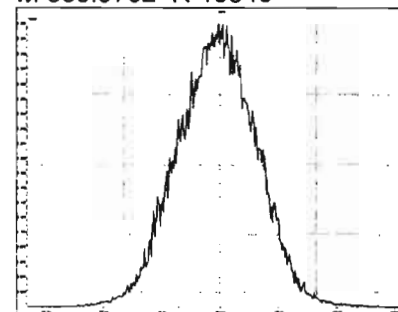
M 304.9824 R 10917



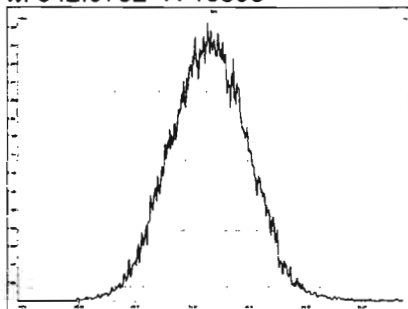
M 318.9792 R 10637



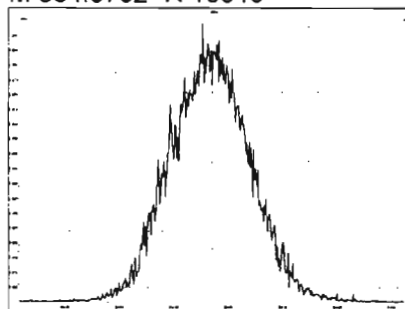
M 330.9792 R 10640



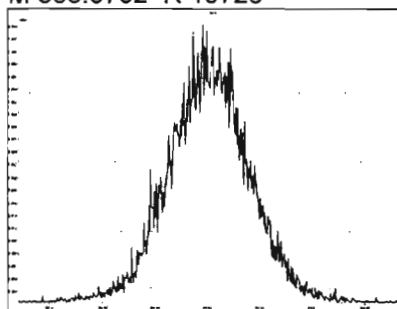
M 342.9792 R 10593



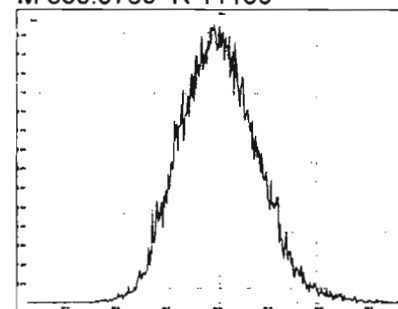
M 354.9792 R 10919



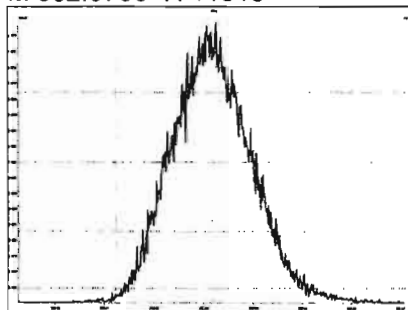
M 366.9792 R 10726



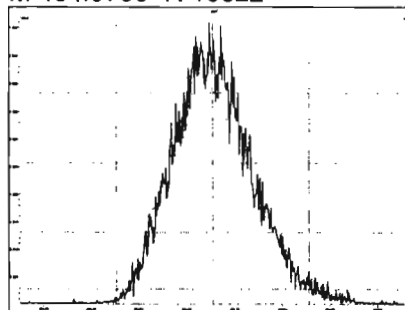
M 380.9760 R 11160



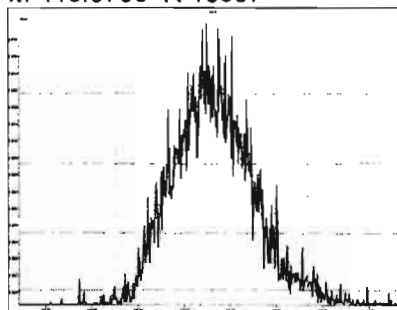
M 392.9760 R 11015



M 404.9760 R 10822



M 416.9760 R 10507



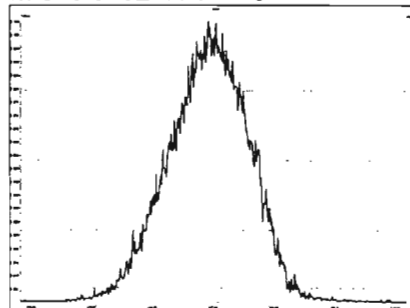
Experiment Calibration Report

MassLynx 4.1 SCN815

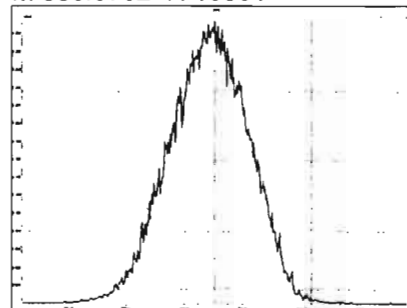
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:42:23 Pacific Standard Time

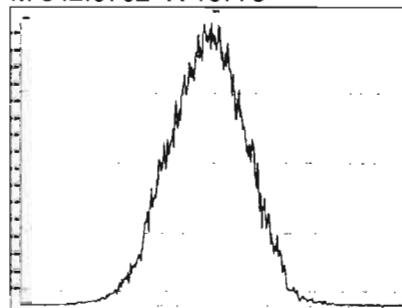
M 318.9792 R 11110



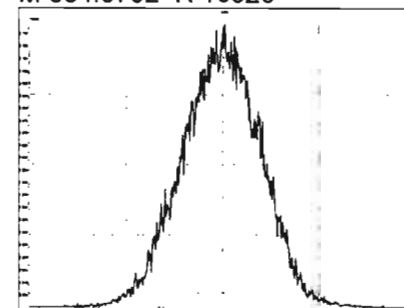
M 330.9792 R 10681



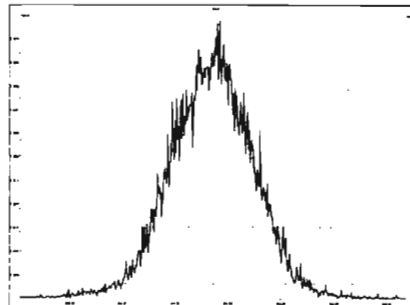
M 342.9792 R 10776



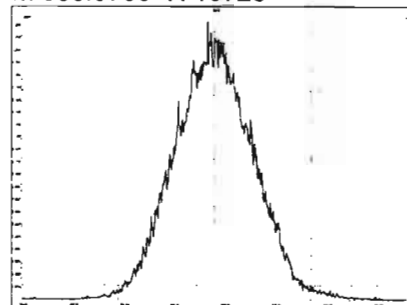
M 354.9792 R 10920



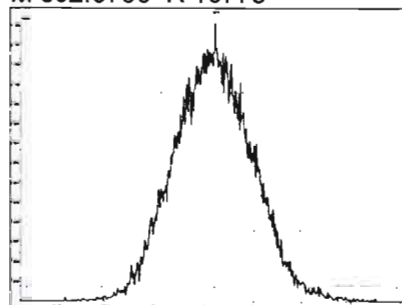
M 366.9792 R 10730



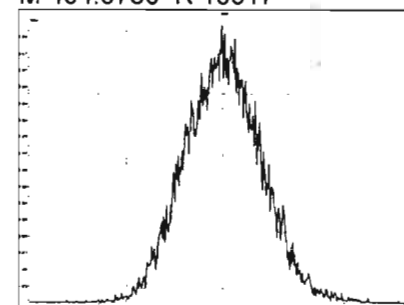
M 380.9760 R 10729



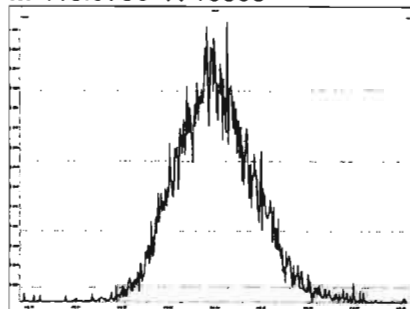
M 392.9760 R 10778



M 404.9760 R 10917



M 416.9760 R 10503



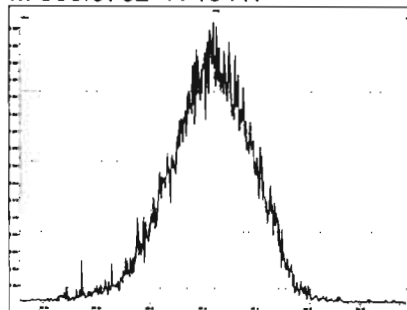
Experiment Calibration Report

MassLynx 4.1 SCN815

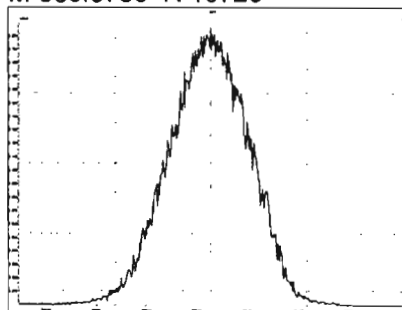
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:43:30 Pacific Standard Time

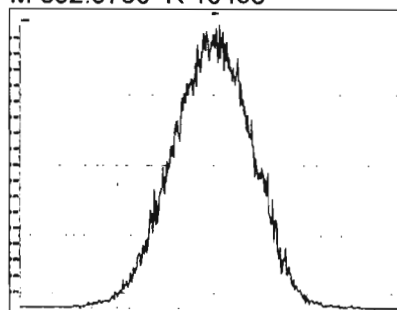
M 366.9792 R 10417



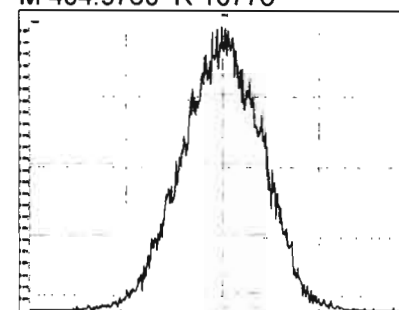
M 380.9760 R 10729



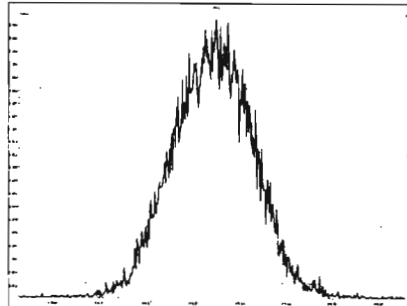
M 392.9760 R 10458



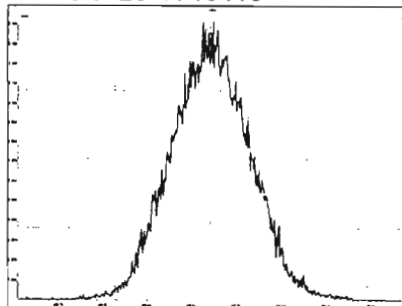
M 404.9760 R 10776



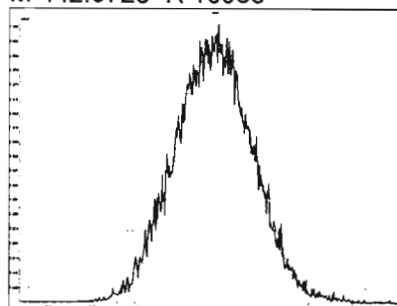
M 416.9760 R 10728



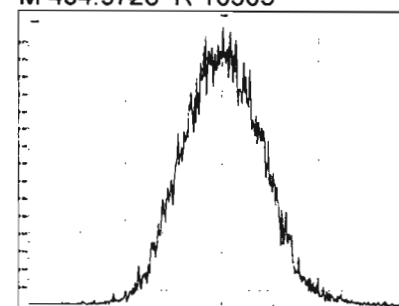
M 430.9728 R 10418



M 442.9728 R 10965



M 454.9728 R 10503



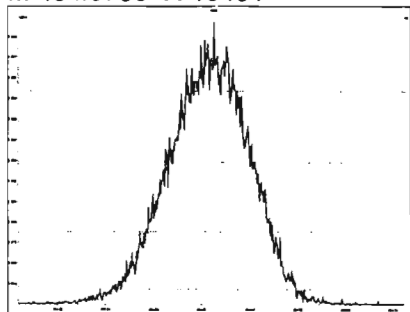
Experiment Calibration Report

MassLynx 4.1 SCN815

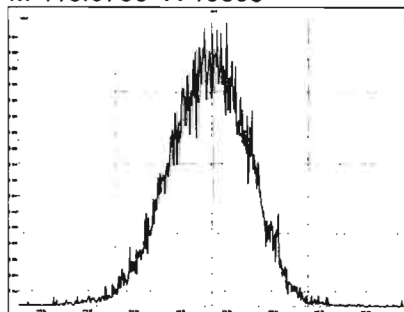
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:44:27 Pacific Standard Time

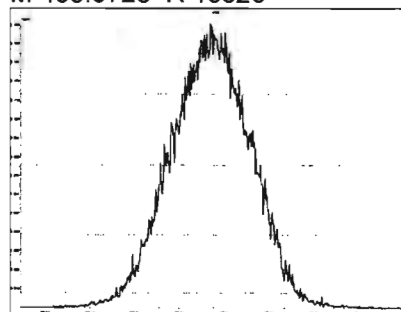
M 404.9760 R 10461



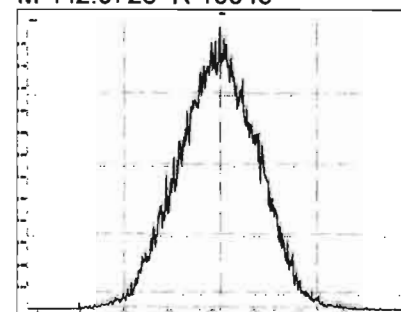
M 416.9760 R 10503



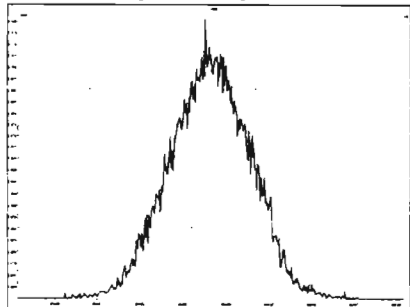
M 430.9728 R 10820



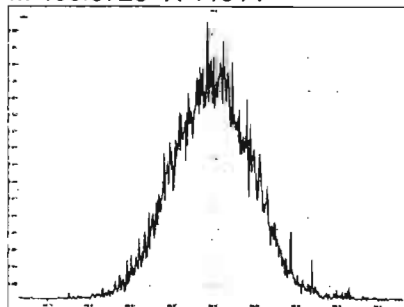
M 442.9728 R 10545



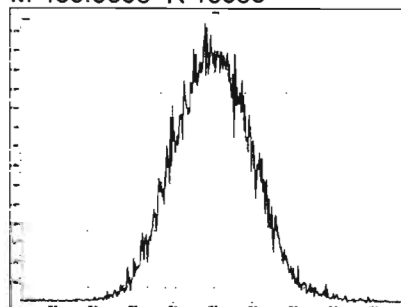
M 454.9728 R 10637



M 466.9728 R 11014



M 480.9696 R 10965



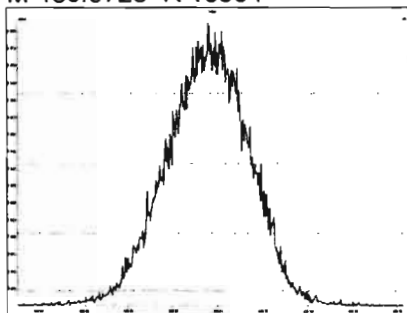
Experiment Calibration Report

MassLynx 4.1 SCN815

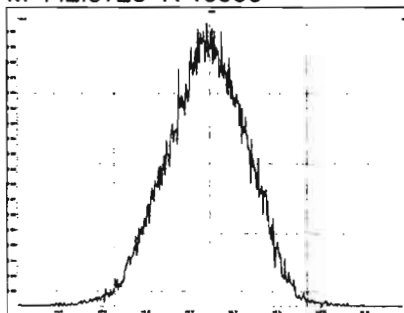
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, January 31, 2020 16:45:52 Pacific Standard Time

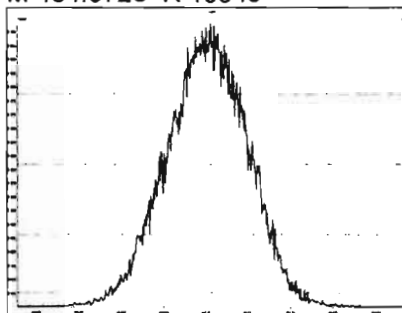
M 430.9728 R 10504



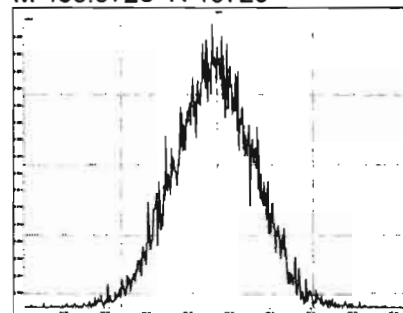
M 442.9728 R 10550



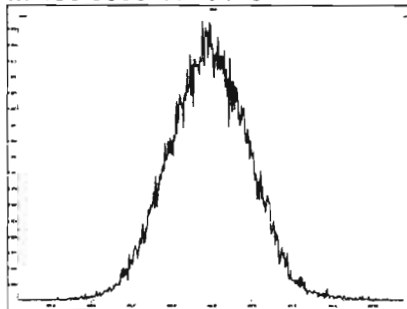
M 454.9728 R 10549



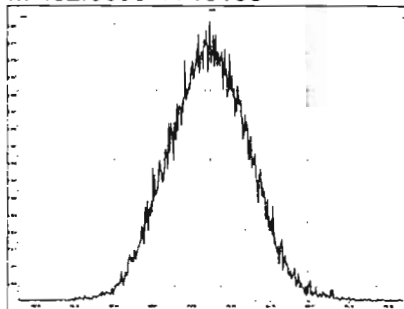
M 466.9728 R 10729



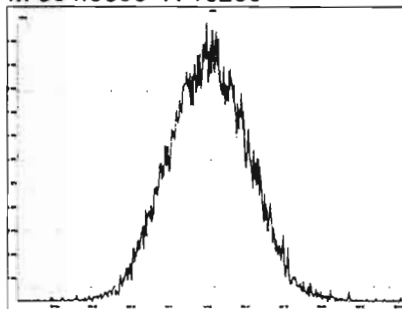
M 480.9696 R 10415



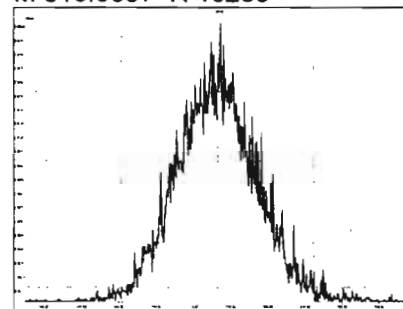
M 492.9696 R 10163



M 504.9696 R 10290



M 516.9697 R 10286



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.72
2	2 1,2,8,9-TCDD (Last)	26.66
3	3 1,2,4,7,9-PeCDD (First)	28.44
4	4 1,2,3,8,9-PeCDD (Last)	31.02
5	5 1,2,4,6,7,9-HxCDD (First)	32.51
6	6 1,2,3,7,8,9-HxCDD (Last)	34.37
7	7 1,2,3,4,6,7,9-HpCDD (First)	36.85
8	8 1,2,3,4,6,7,8-HpCDD (Last)	37.90
9	9 1,3,6,8-TCDF (First)	19.63
10	10 1,2,8,9-TCDF (Last)	26.81
11	11 1,3,4,6,8-PeCDF (First)	26.77
12	12 1,2,3,8,9-PeCDF (Last)	31.26
13	13 1,2,3,4,6,8-HxCDF (First)	31.95
14	14 1,2,3,7,8,9-HxCDF (Last)	34.72
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.47
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.50

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:18:10 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:18:19 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 23 Jan 2020 15:01:26

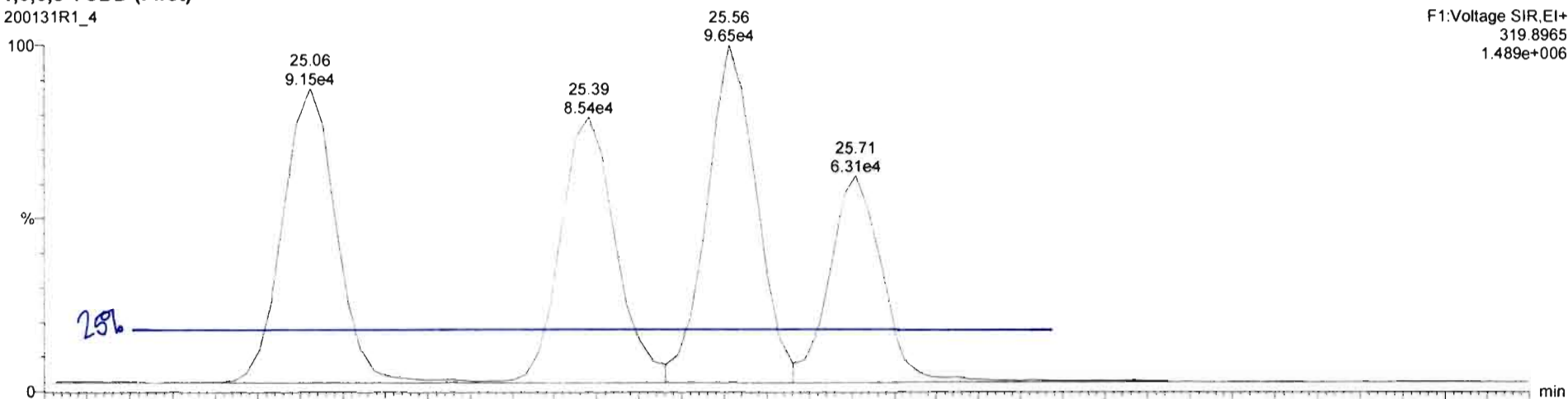
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

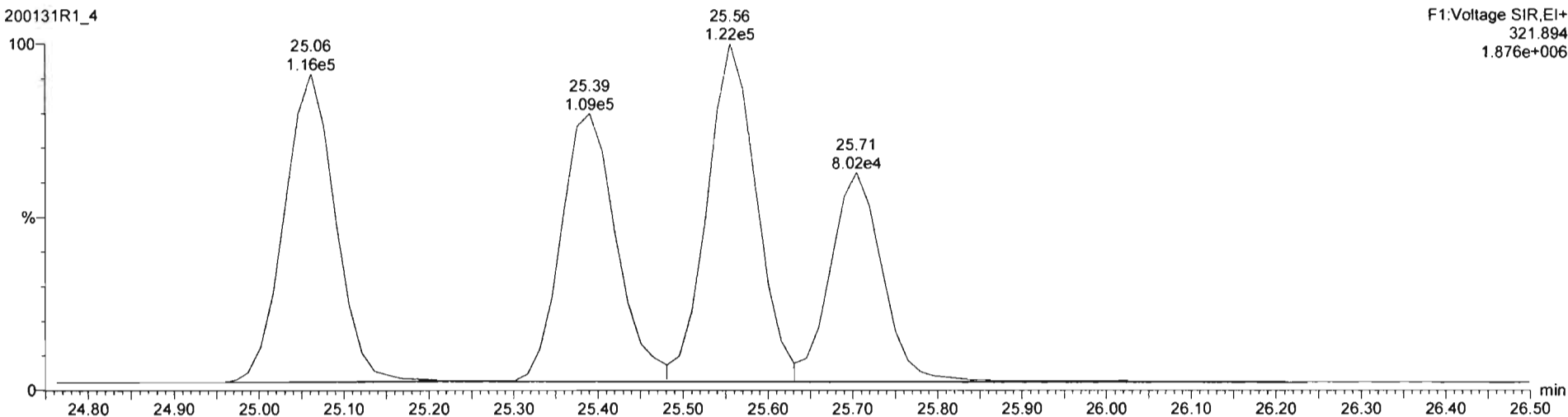
200131R1_4

F1:Voltage SIR,EI+
319.8965
1.489e+006



200131R1_4

F1:Voltage SIR,EI+
321.894
1.876e+006



Dataset: Untitled

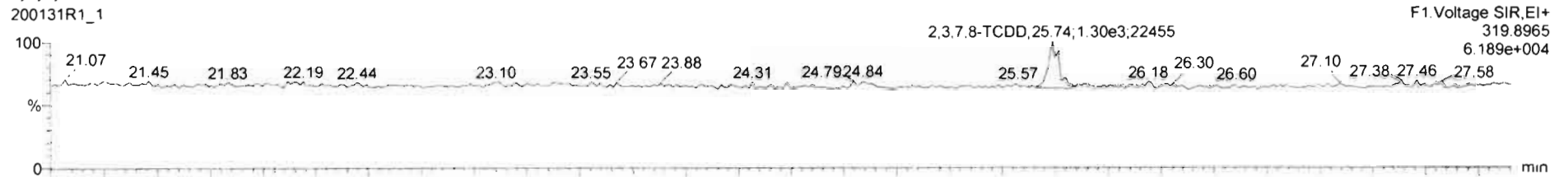
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: 02 Feb 2020 11:06:20

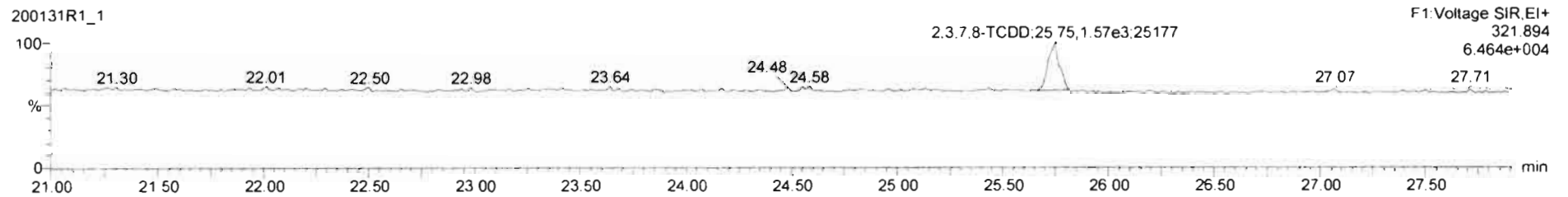
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200131R1_1

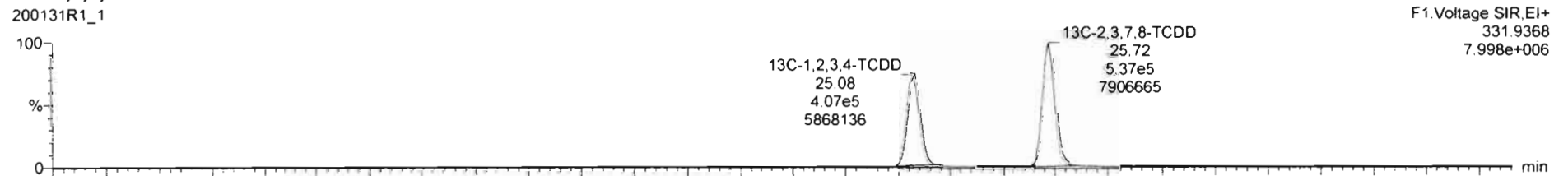


200131R1_1

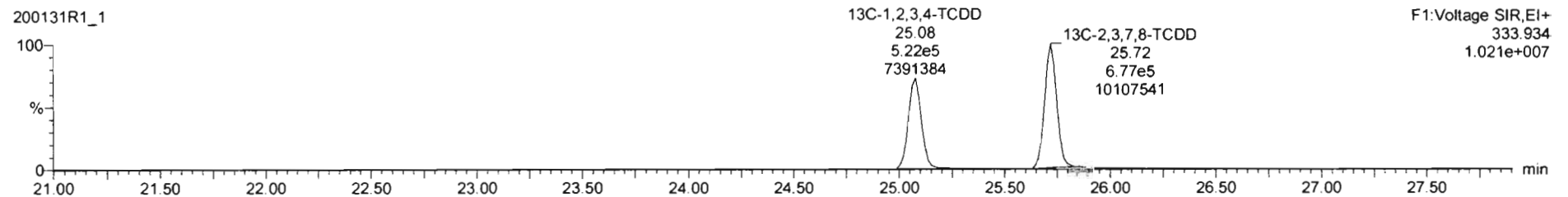


13C-2,3,7,8-TCDD

200131R1_1



200131R1_1



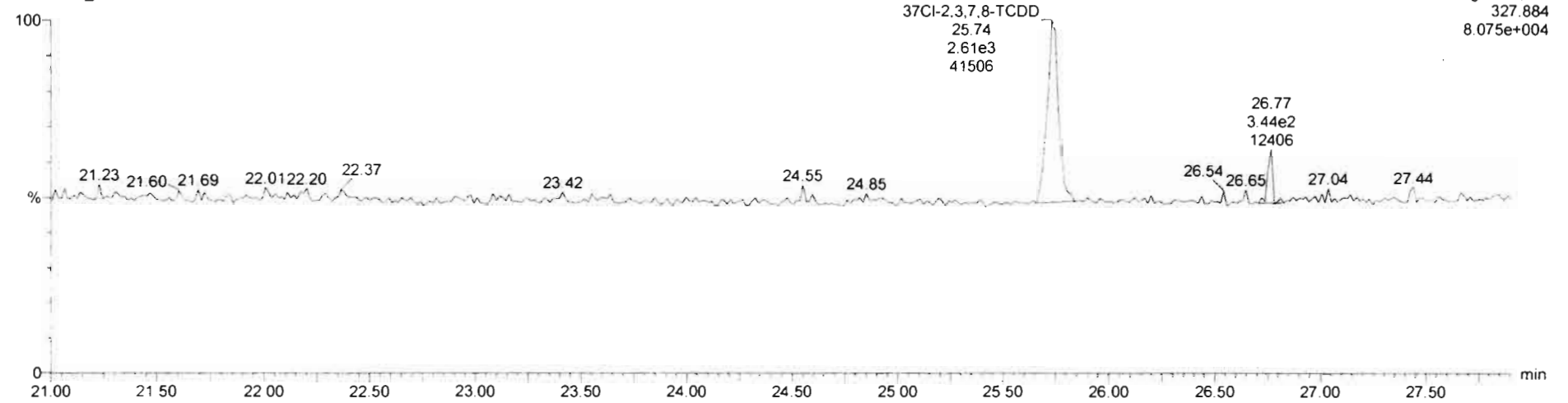
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

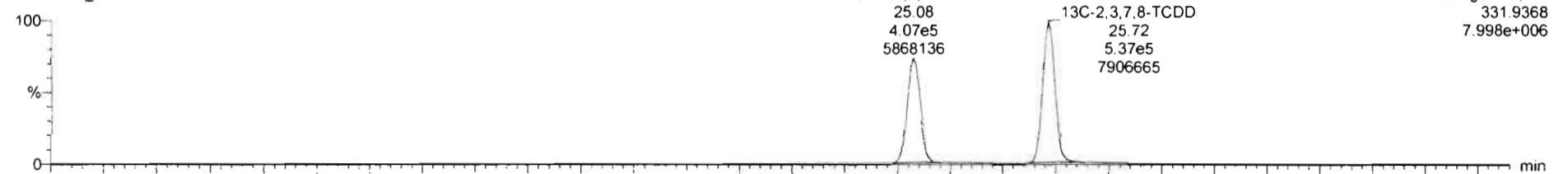
37Cl-2,3,7,8-TCDD

200131R1_1

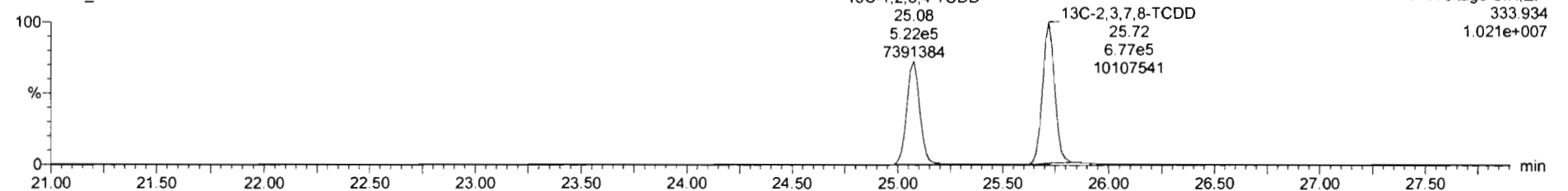


13C-1,2,3,4-TCDD

200131R1_1



200131R1_1



Dataset: Untitled

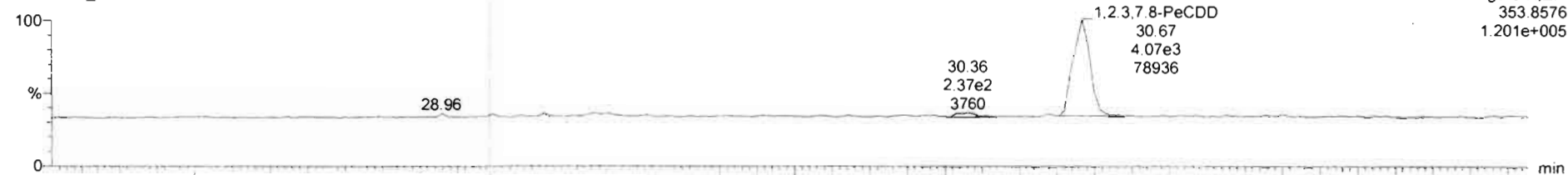
Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

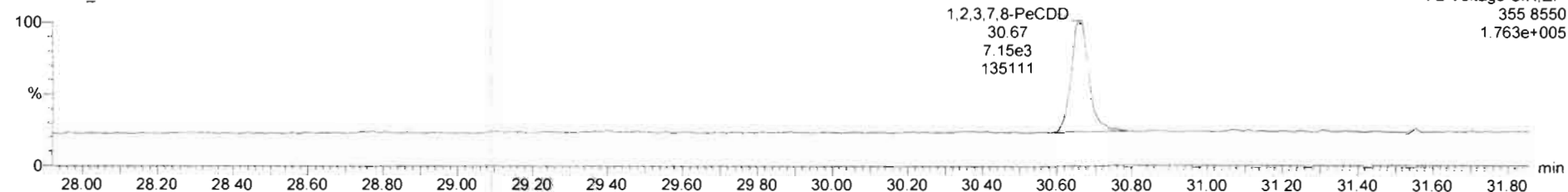
Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200131R1_1

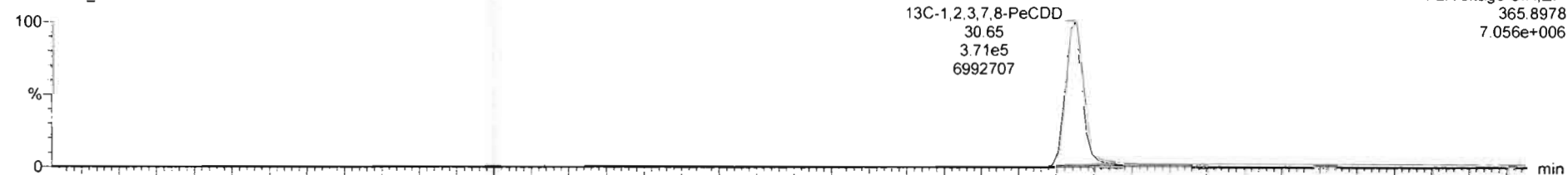


200131R1_1

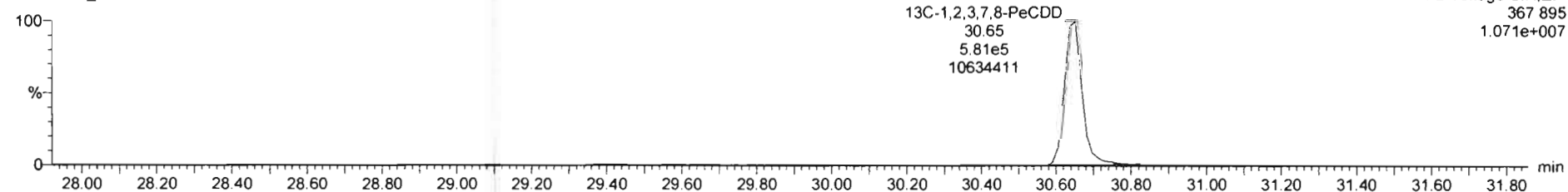


13C-1,2,3,7,8-PeCDD

200131R1_1



200131R1_1



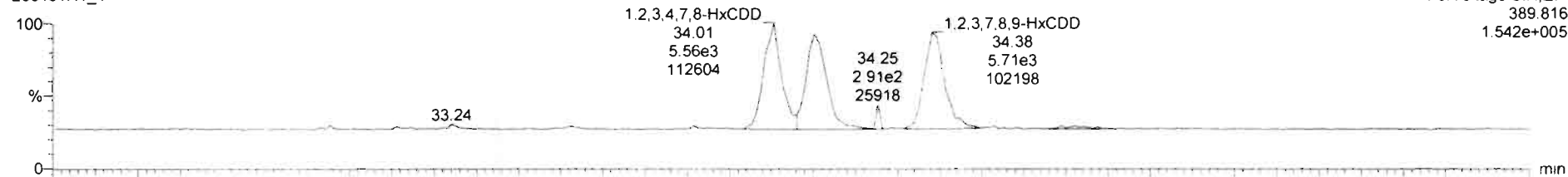
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

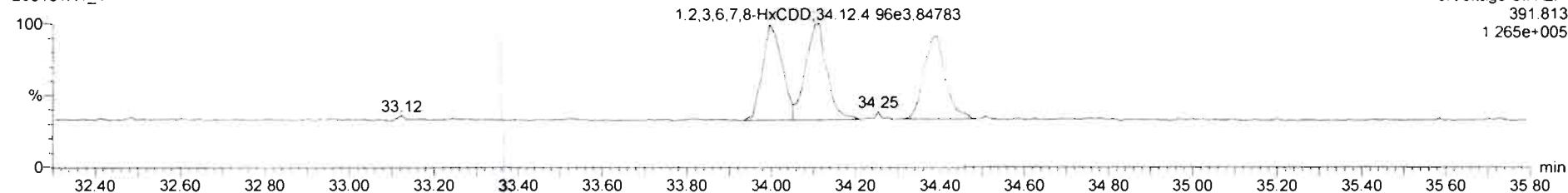
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1,2,3,4,7,8-HxCDD

200131R1_1

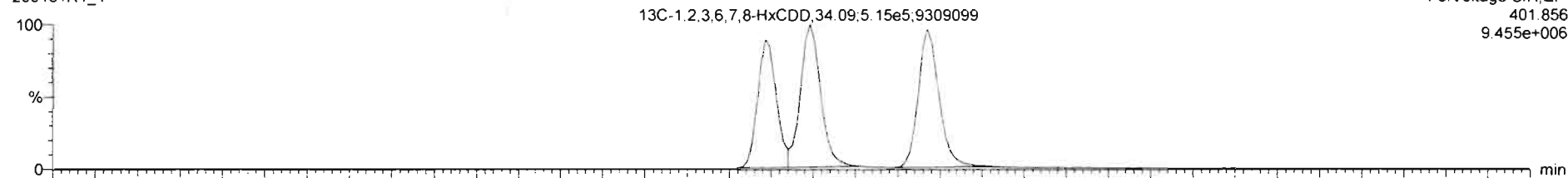


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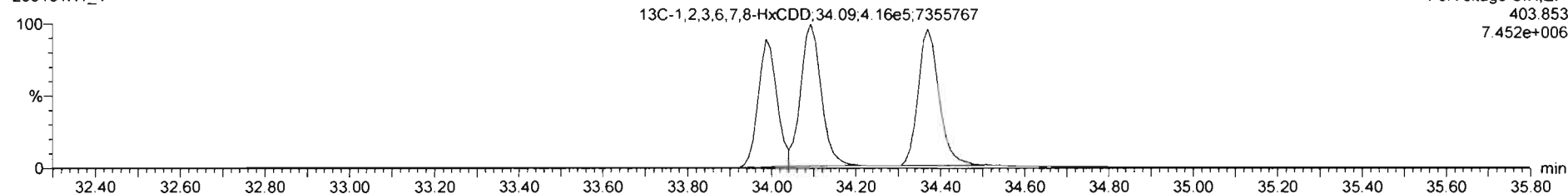


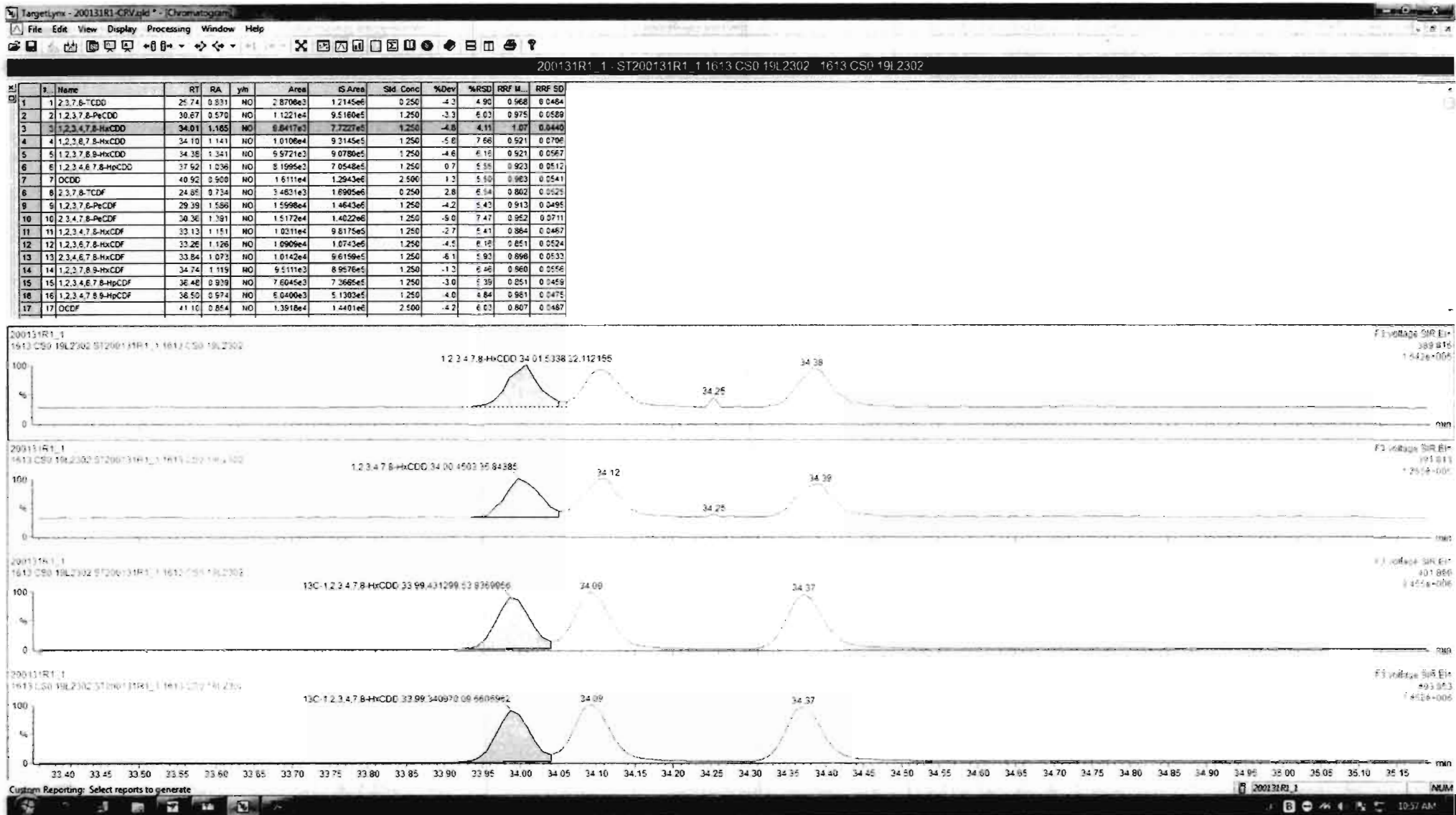
13C-1,2,3,4,7,8-HxCDD

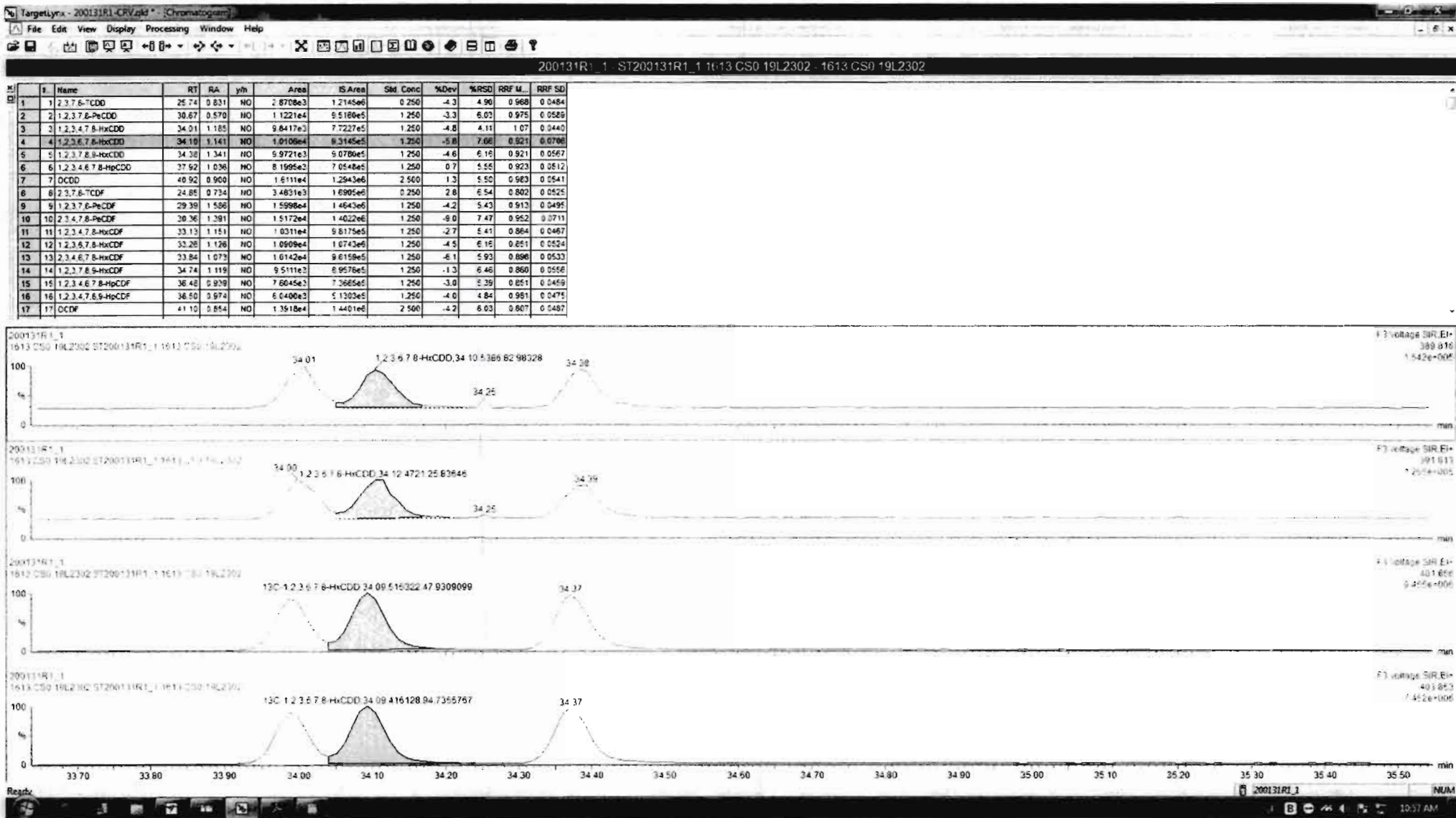
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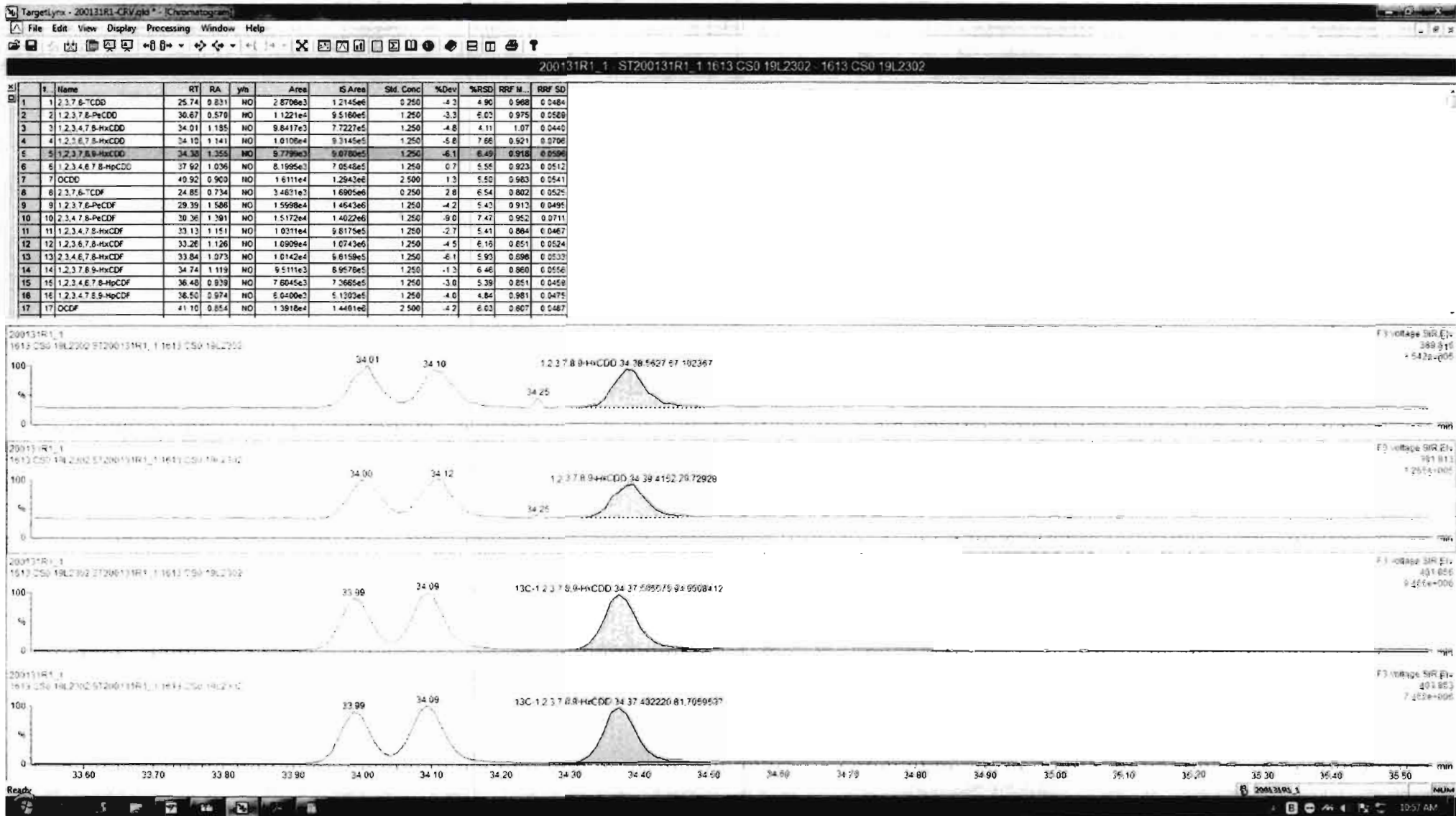


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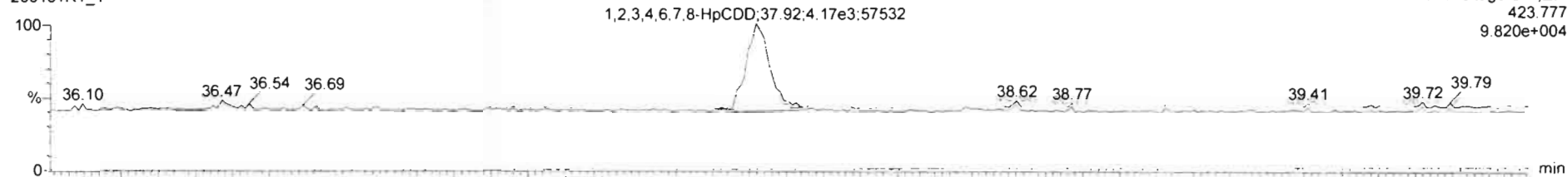
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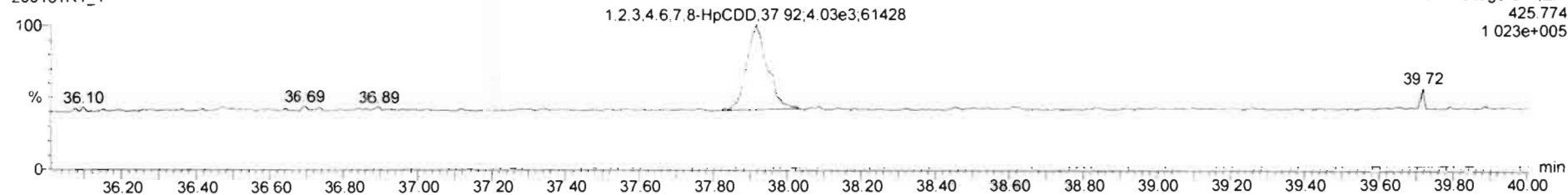
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1,2,3,4,6,7,8-HpCDD

200131R1_1

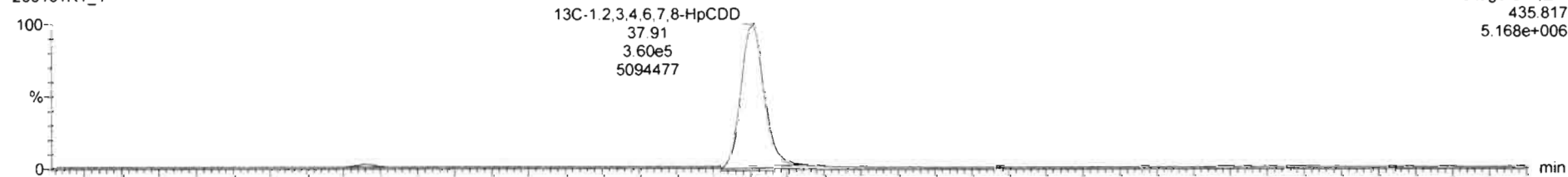


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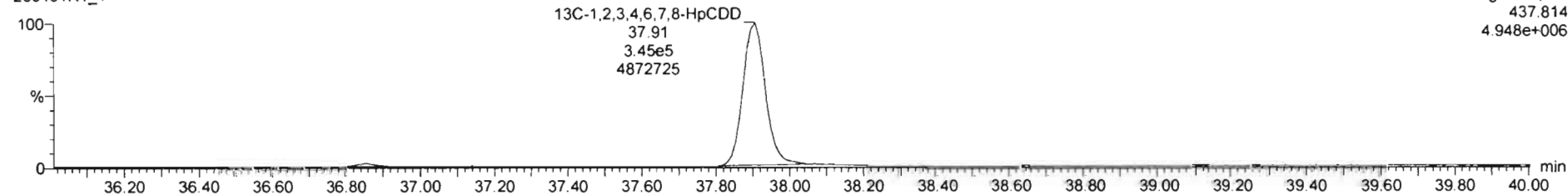


13C-1,2,3,4,6,7,8-HpCDD

200131R1_1



200131R1_1

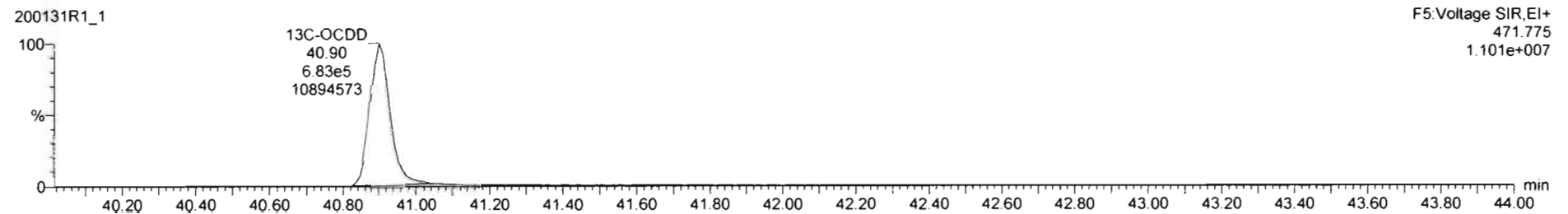
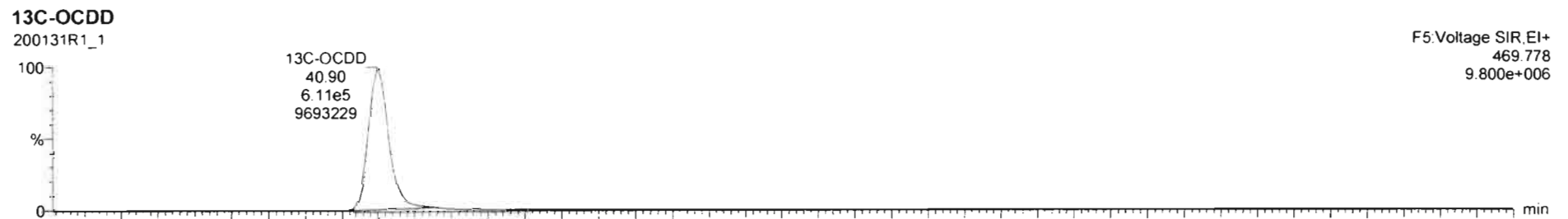
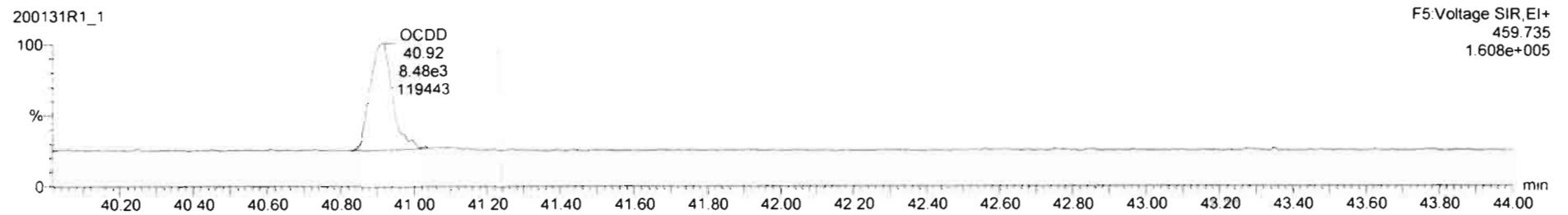
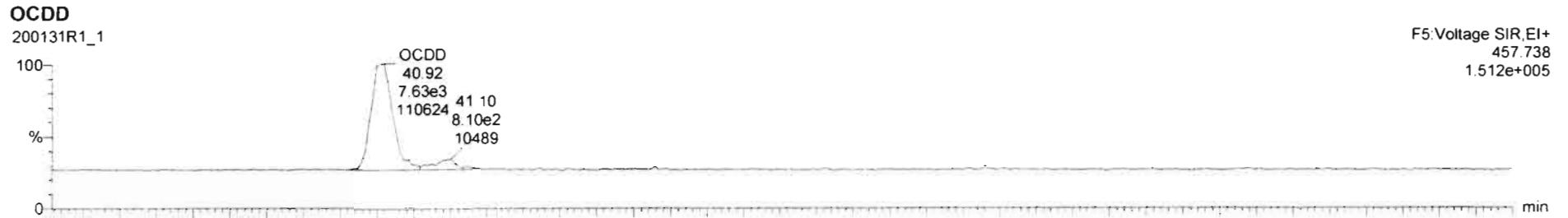


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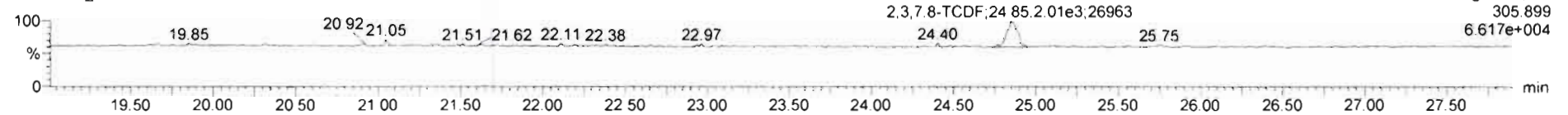
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2,3,7,8-TCDF

200131R1_1

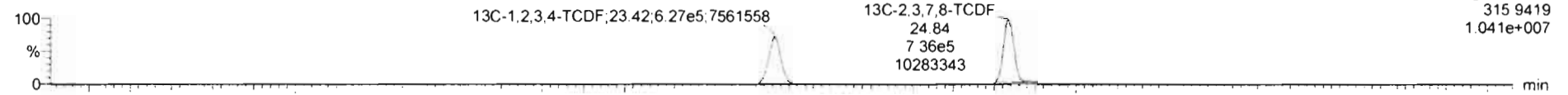


200131R1_1

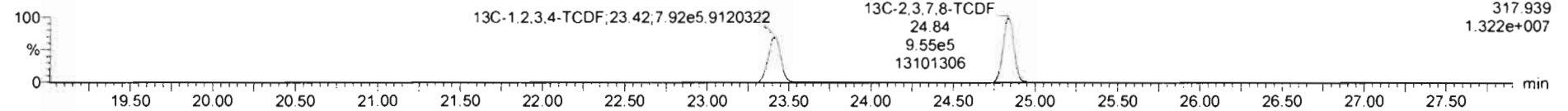


13C-2,3,7,8-TCDF

200131R1_1

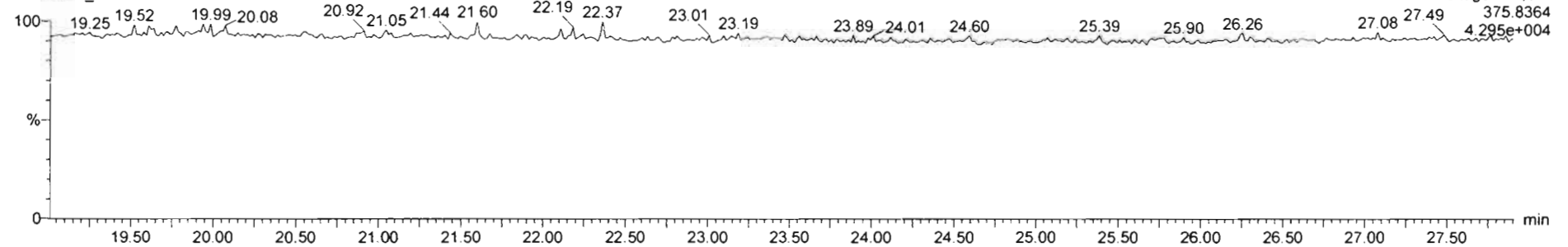


200131R1_1



DPE1

200131R1_1



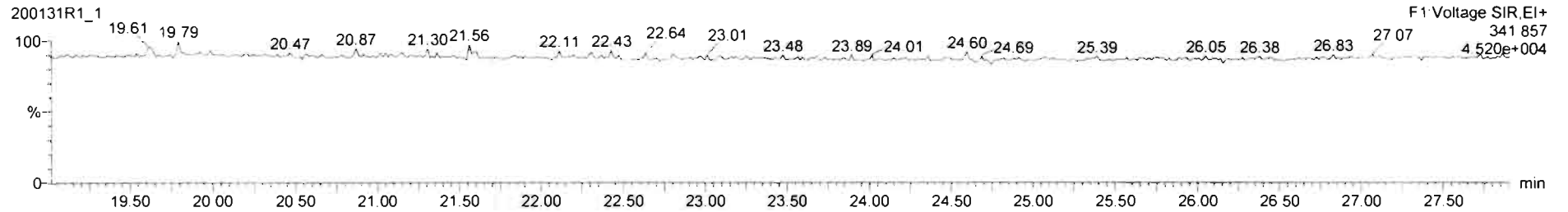
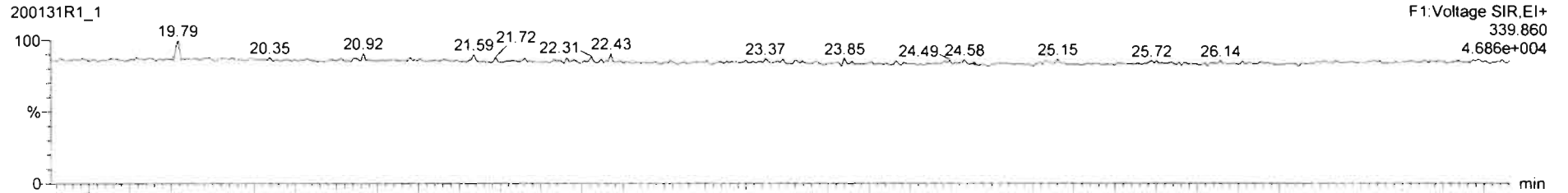
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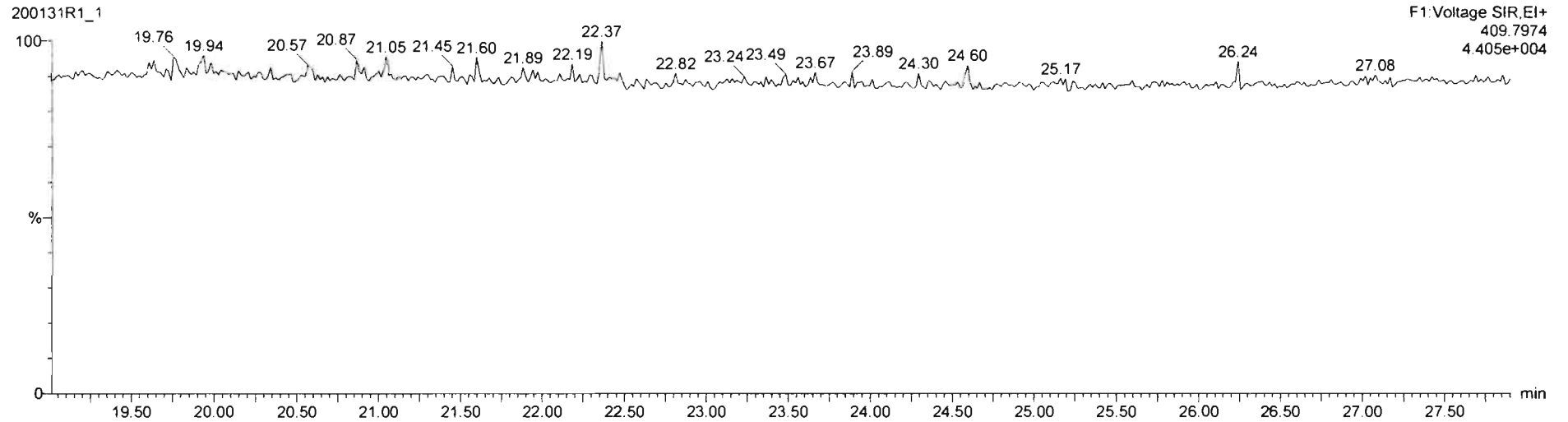
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Name: 200131R1_1, Date: 31-Jan-2020, Time: 16:48:41, ID: ST200131R1_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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DPE6



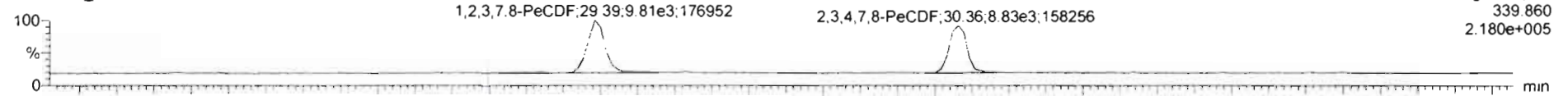
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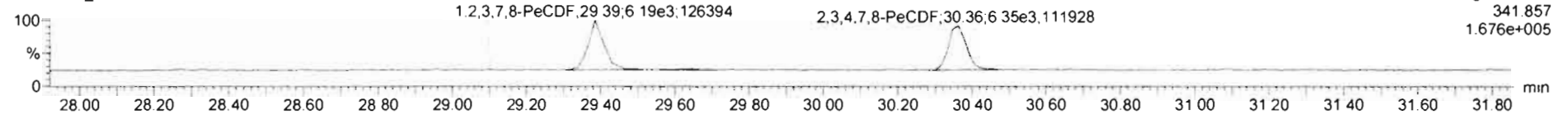
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1,2,3,7,8-PeCDF

200131R1_1

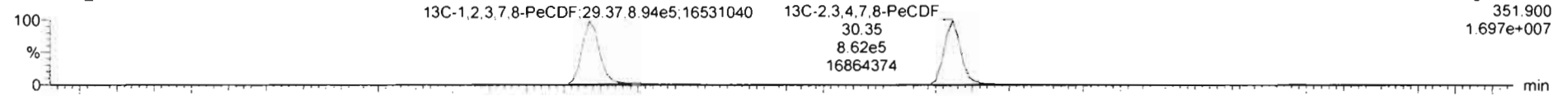


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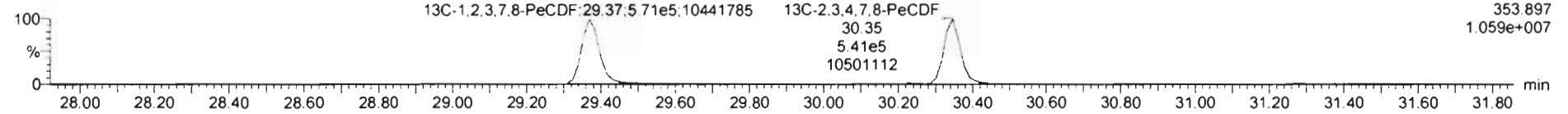


13C-1,2,3,7,8-PeCDF

200131R1_1

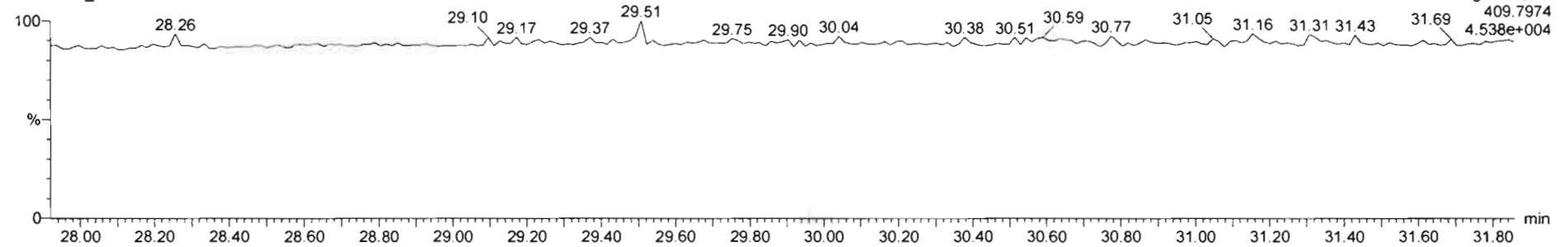


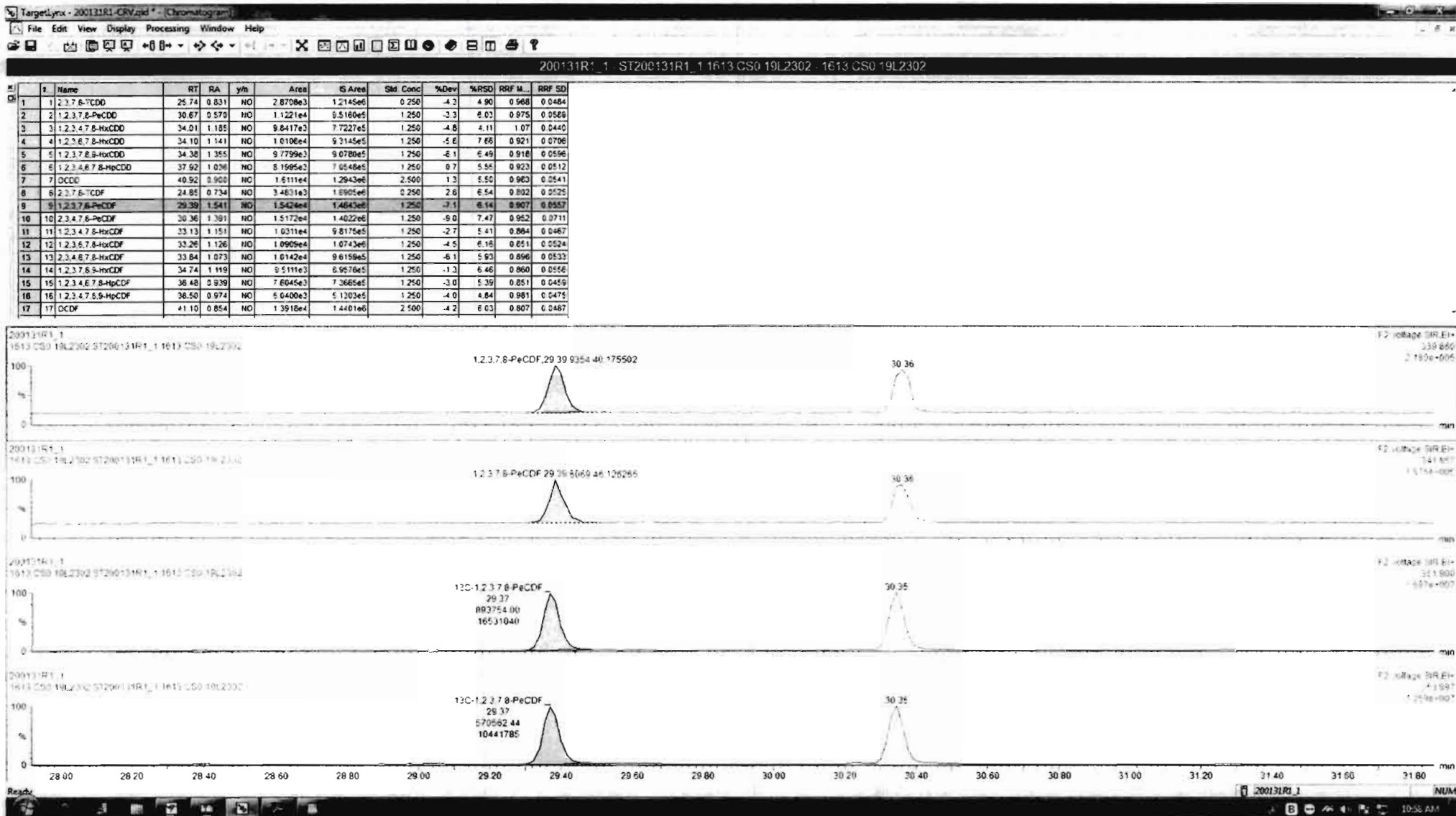
200131R1_1



DPE2

200131R1_1





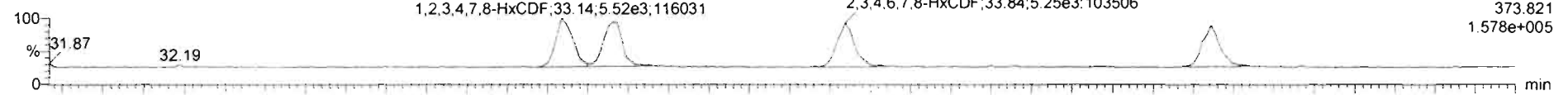
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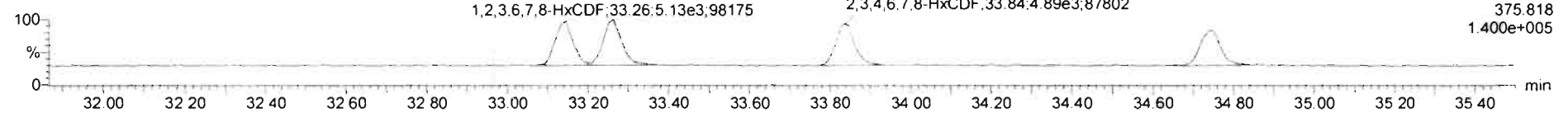
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1,2,3,4,7,8-HxCDF

200131R1_1

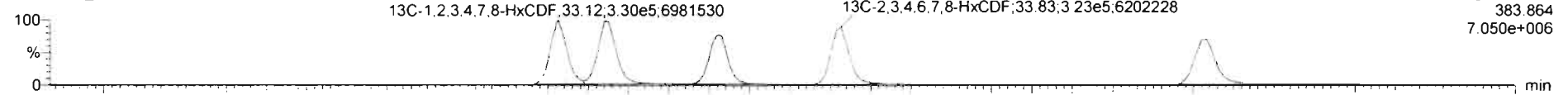


200131R1_1

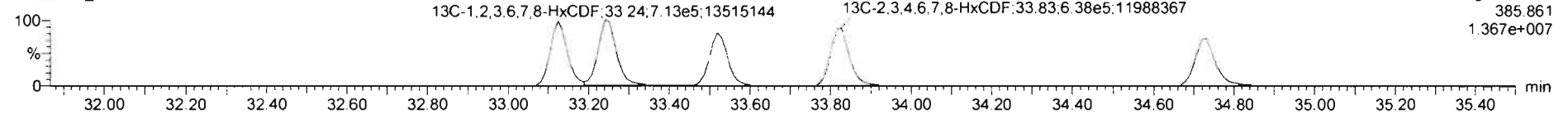


13C-1,2,3,4,7,8-HxCDF

200131R1_1

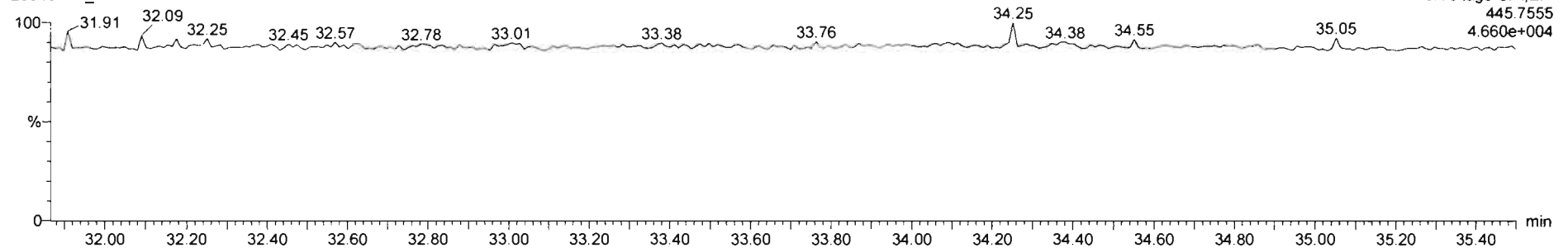


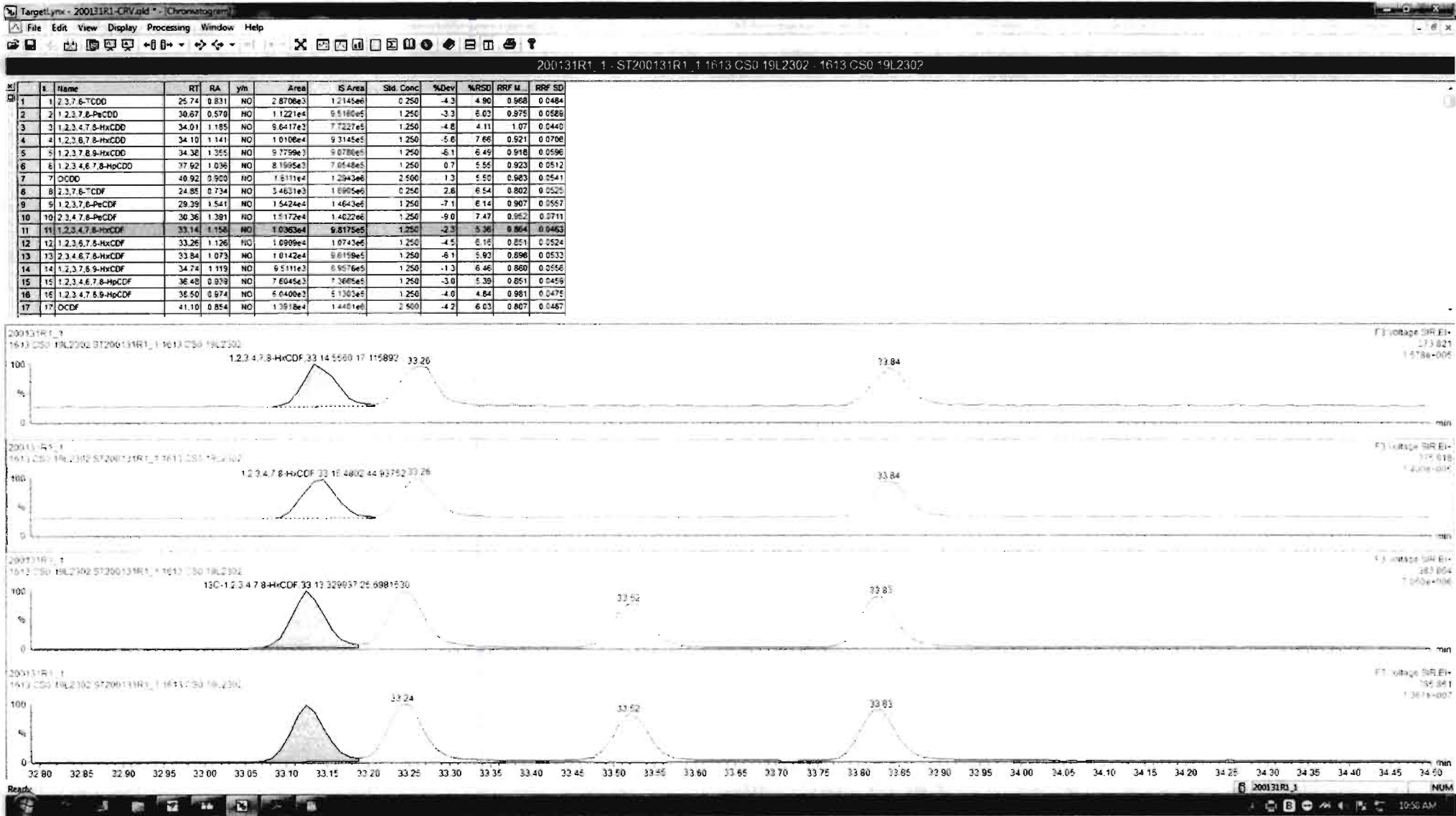
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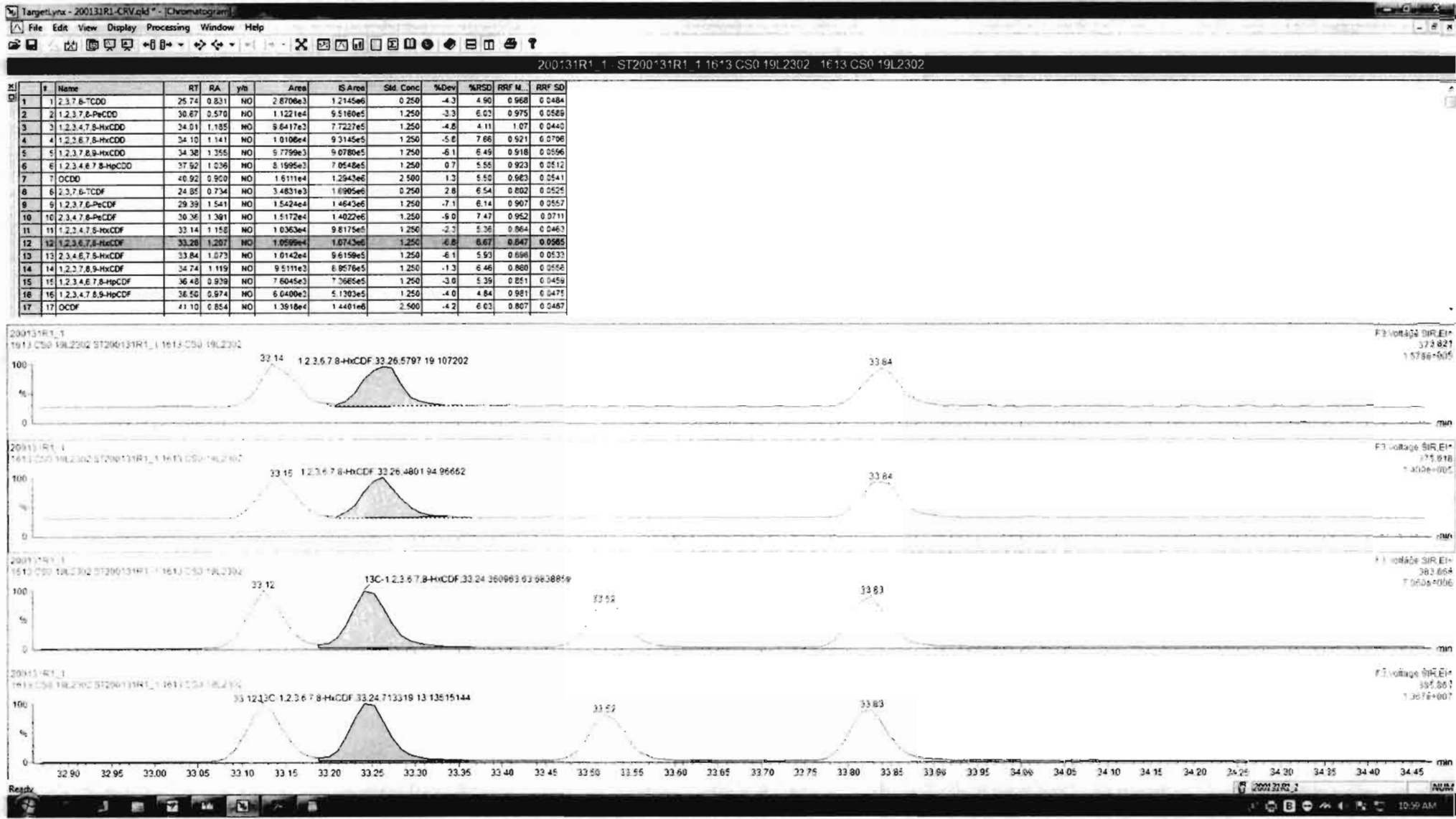


DPE3

200131R1_1





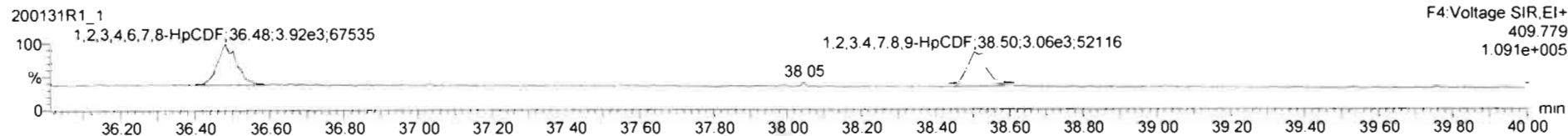
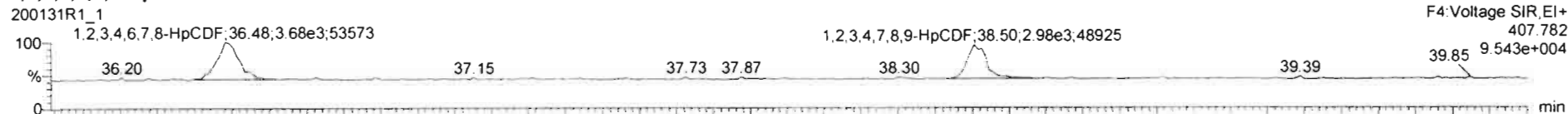


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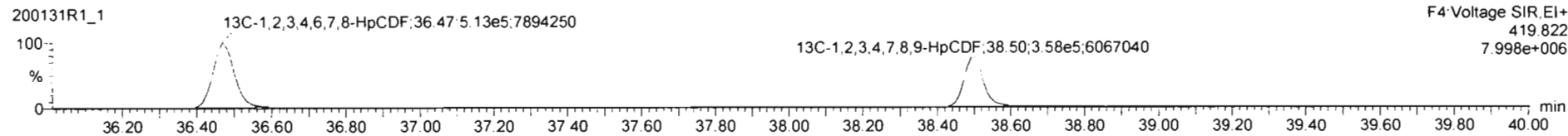
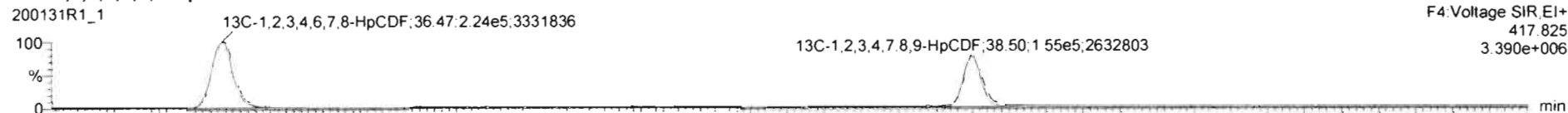
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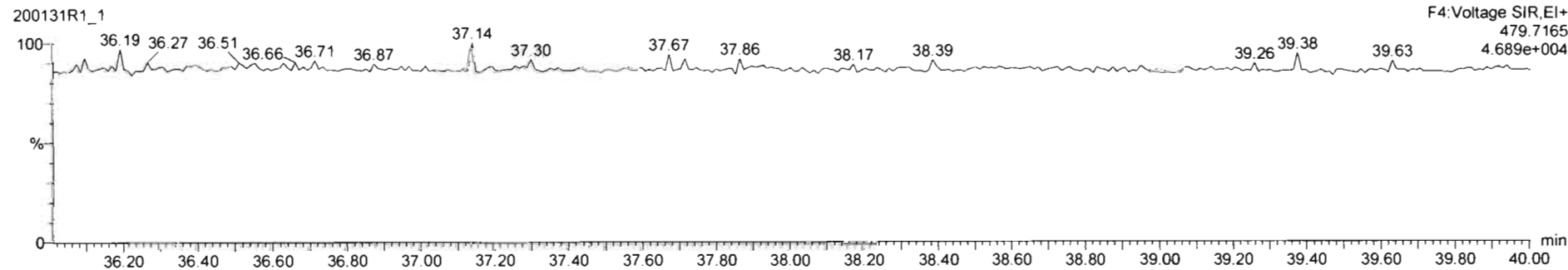
1,2,3,4,6,7,8-HpCDF

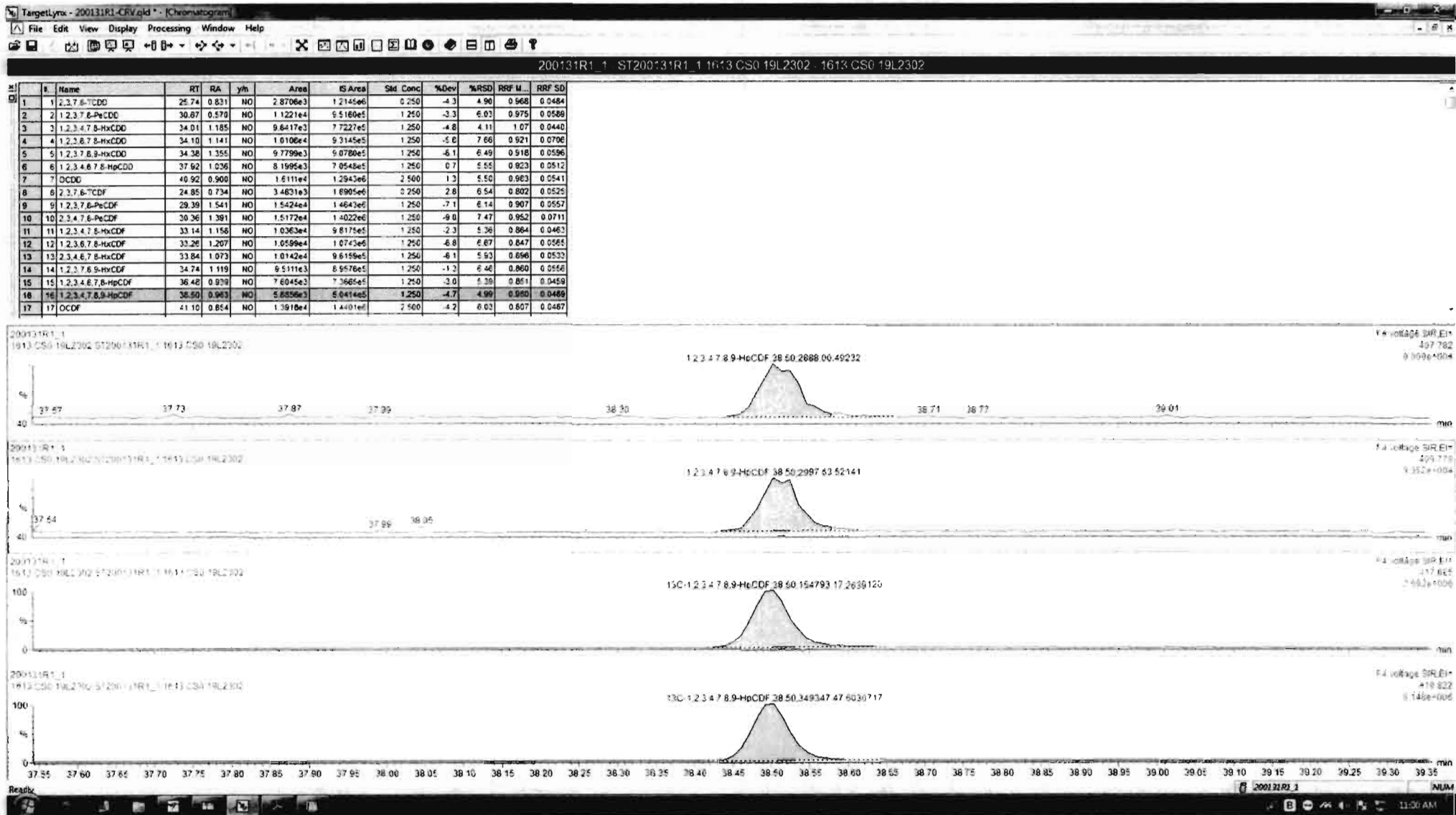


13C-1,2,3,4,6,7,8-HpCDF



DPE4





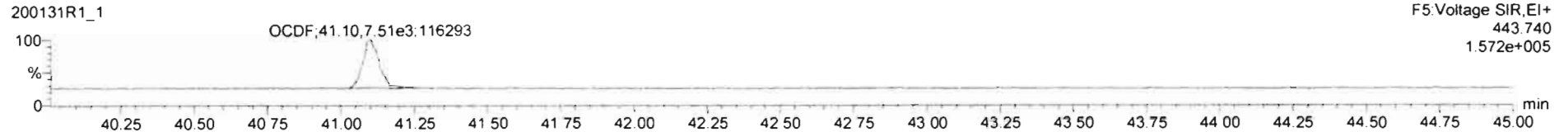
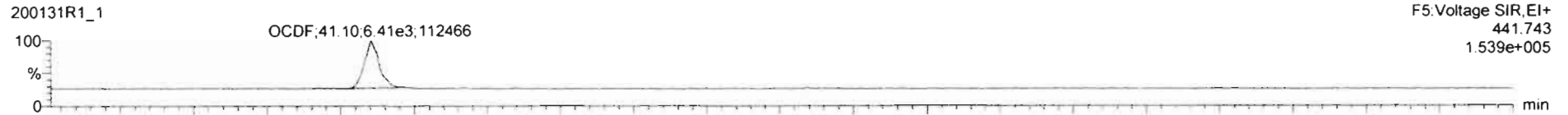
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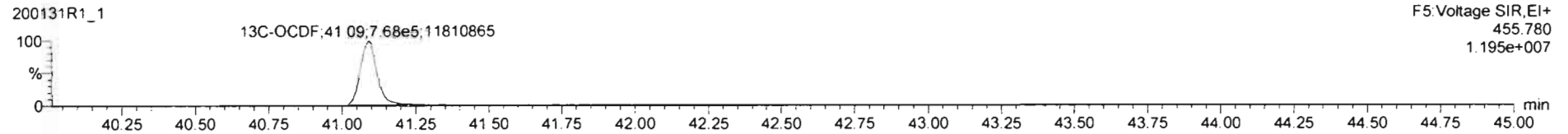
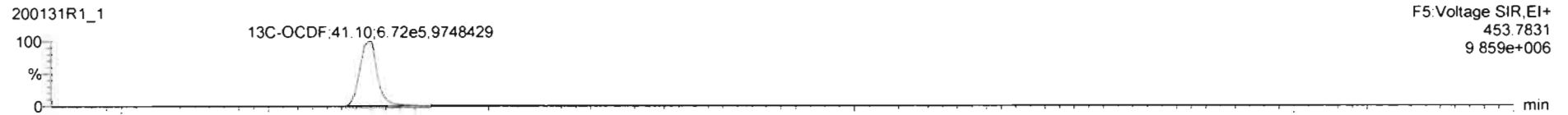
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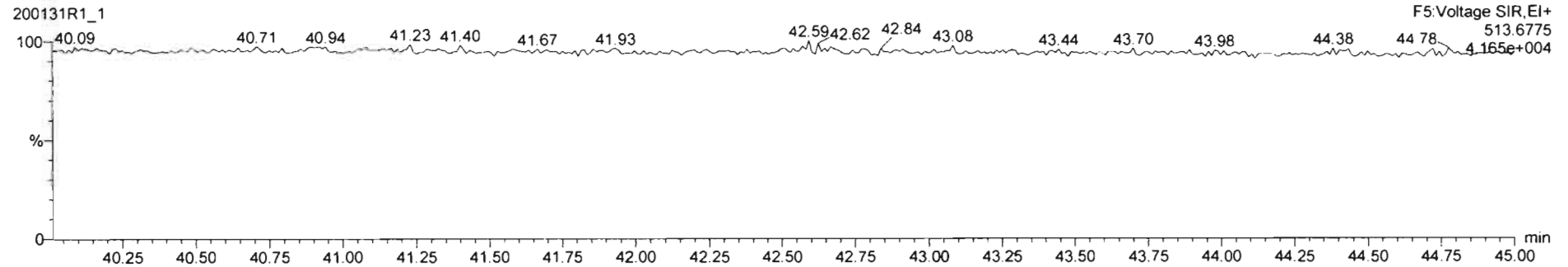
OCDF



13C-OCDF



DPE5

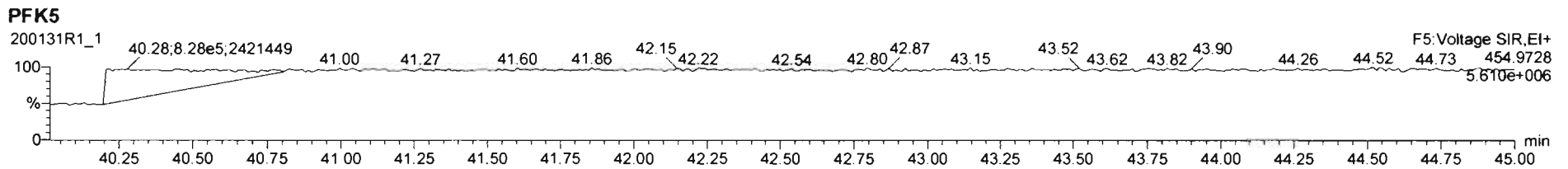
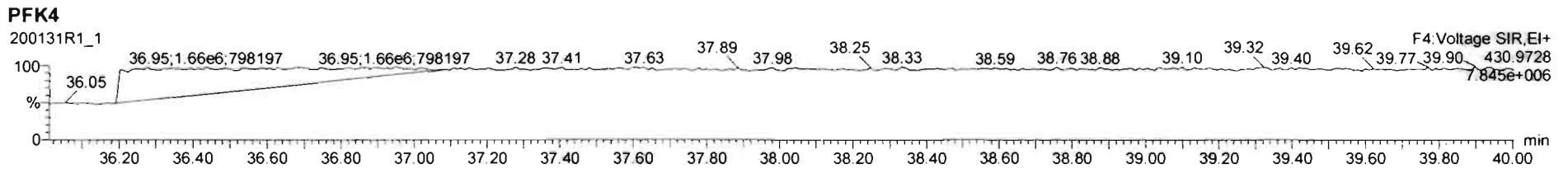
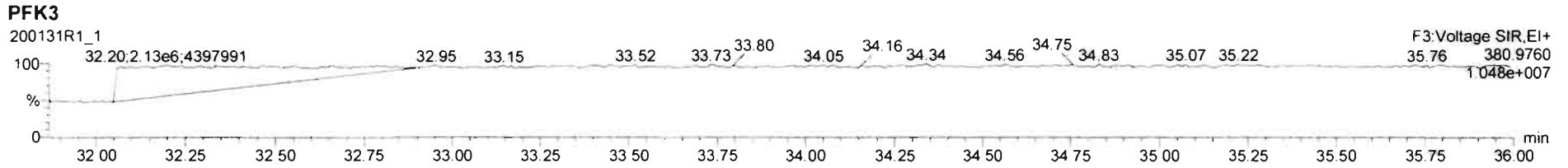
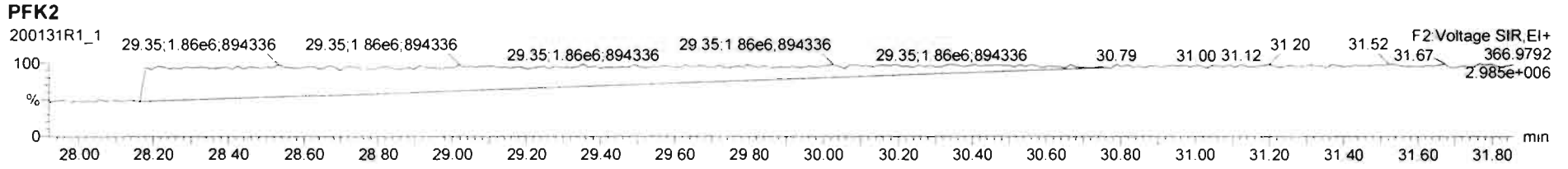
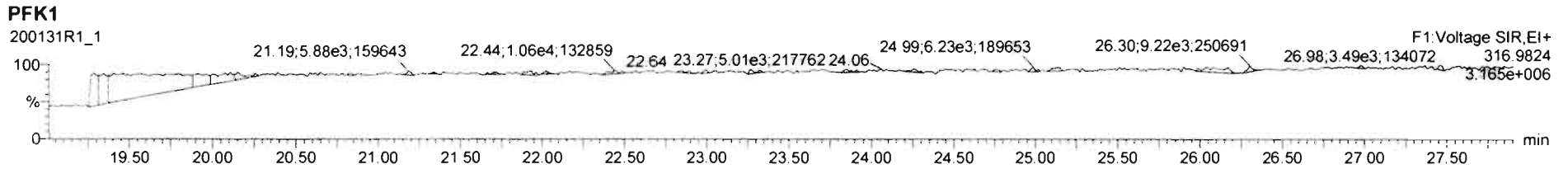


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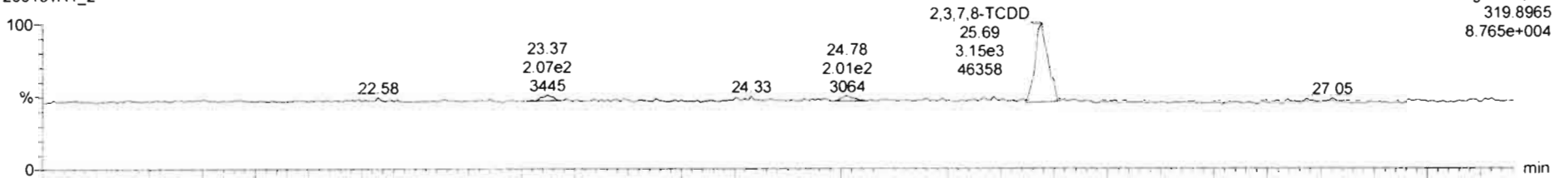
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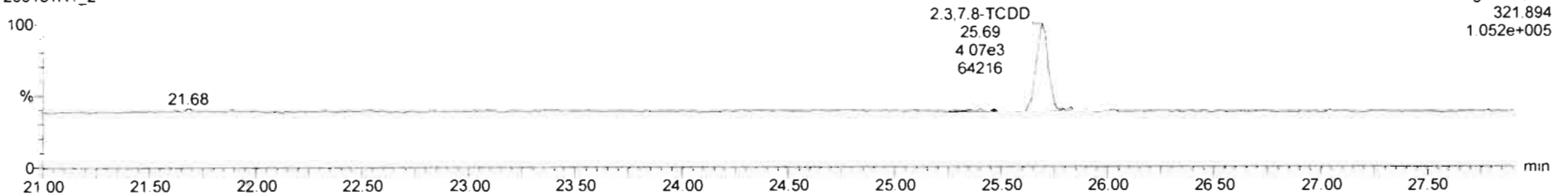
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2,3,7,8-TCDD

200131R1_2

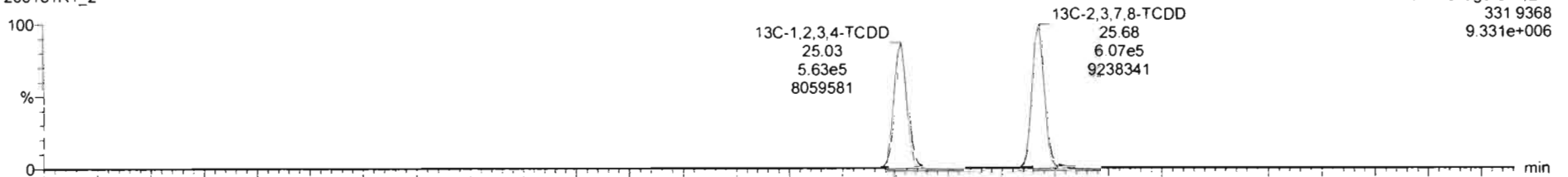


200131R1_2

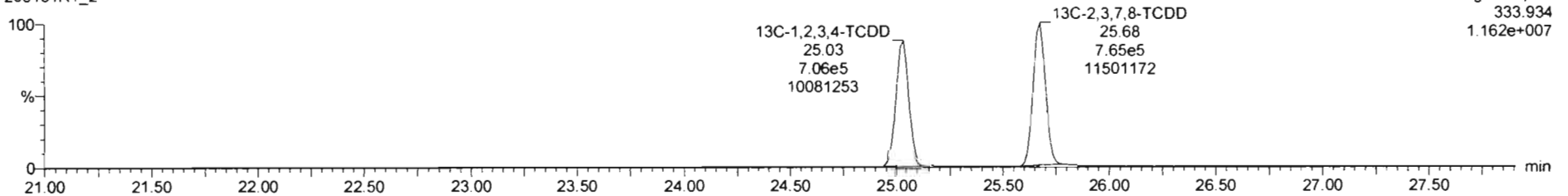


13C-2,3,7,8-TCDD

200131R1_2



200131R1_2



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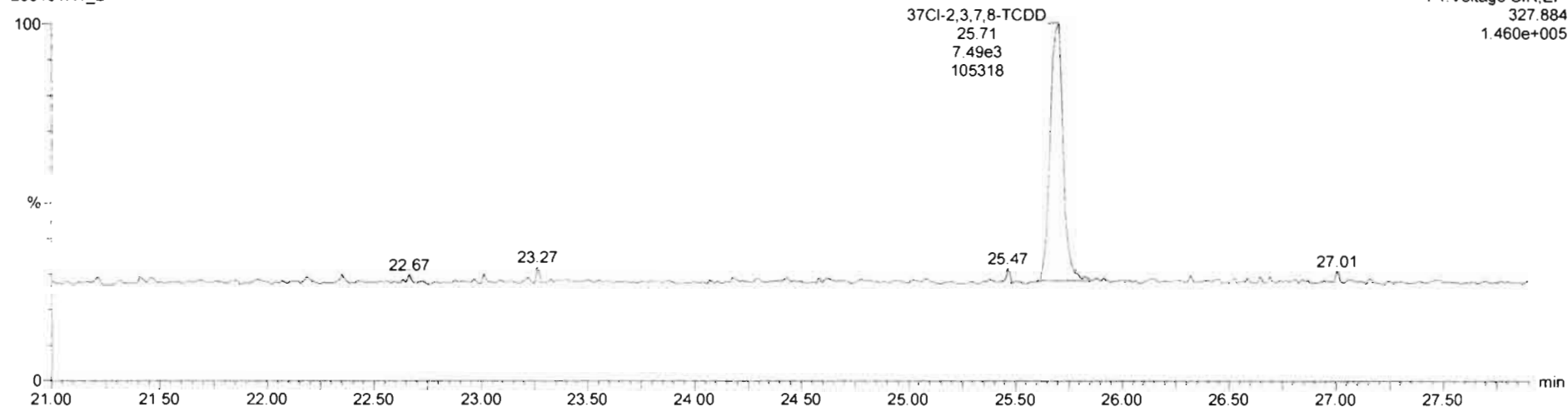
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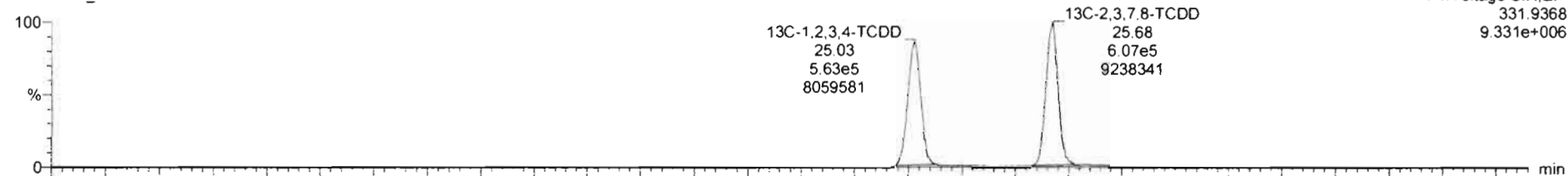
37Cl-2,3,7,8-TCDD

200131R1_2

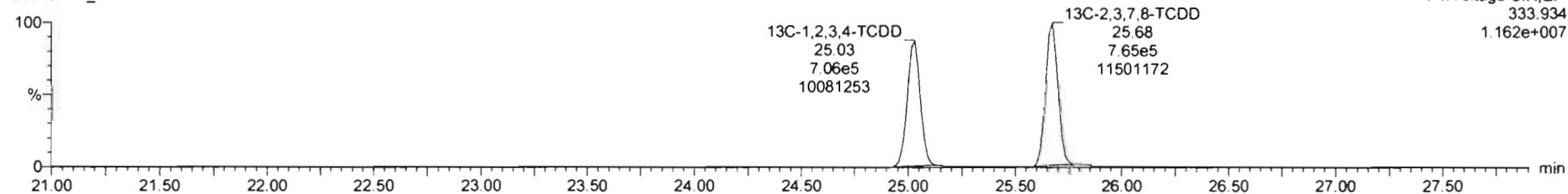


13C-1,2,3,4-TCDD

200131R1_2



200131R1_2



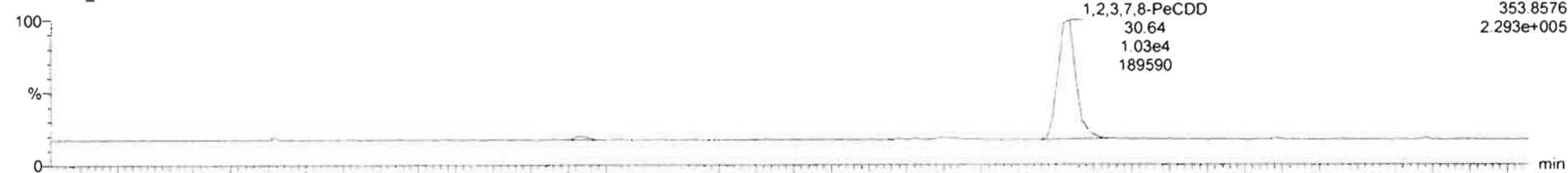
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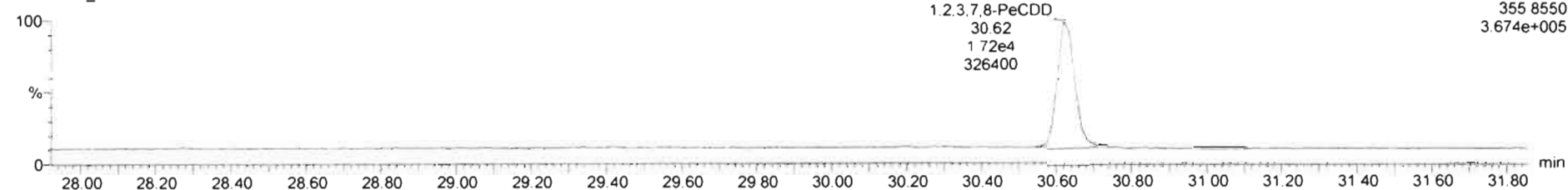
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1,2,3,7,8-PeCDD

200131R1_2

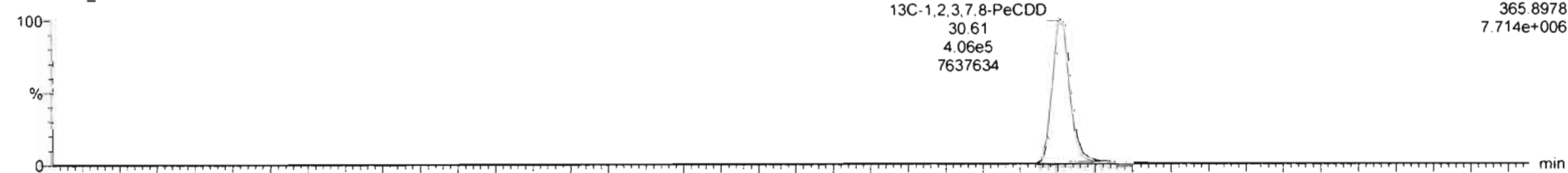


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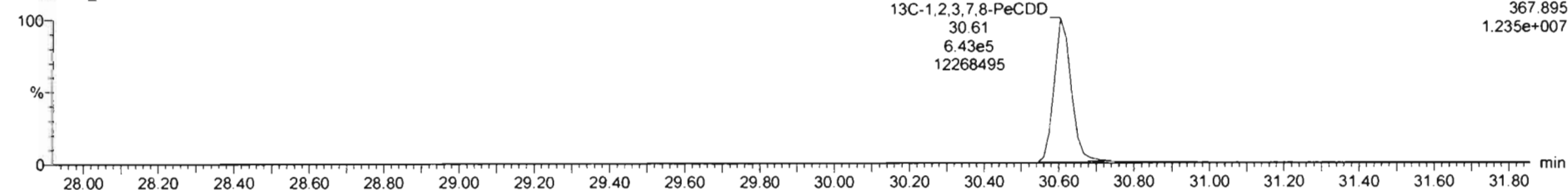


13C-1,2,3,7,8-PeCDD

200131R1_2



200131R1_2



Dataset: Untitled

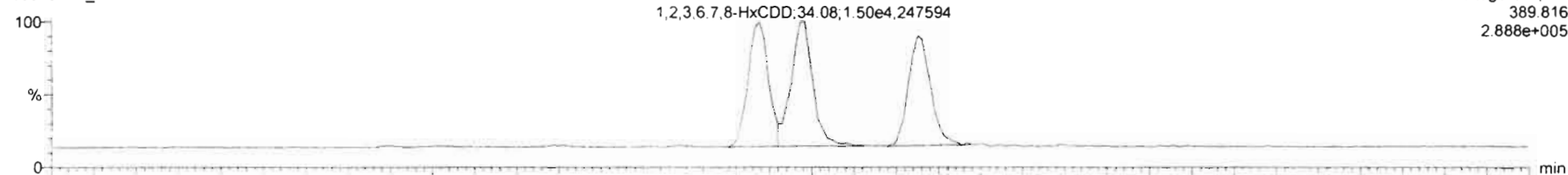
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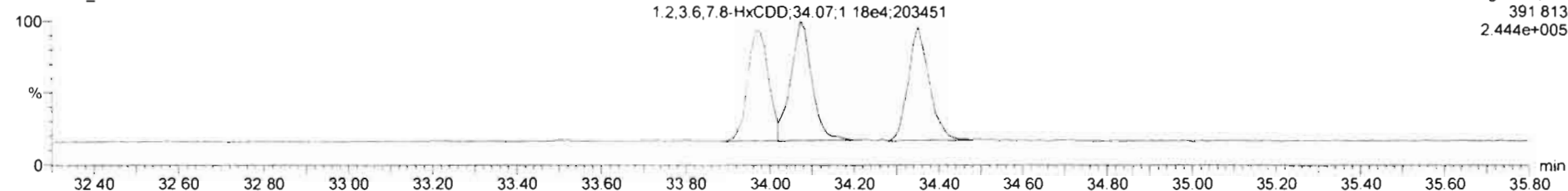
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1,2,3,4,7,8-HxCDD

200131R1_2

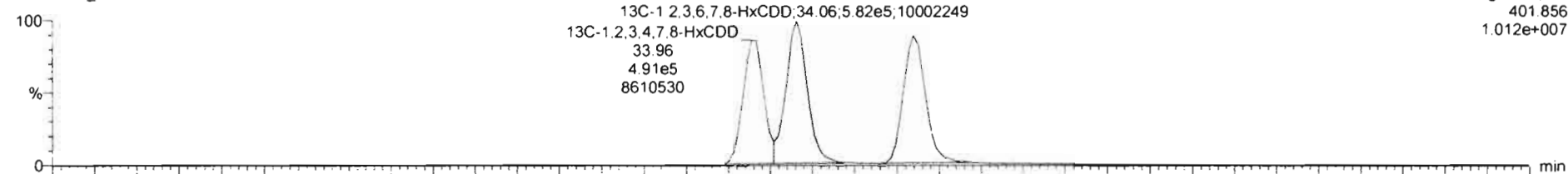


200131R1_2

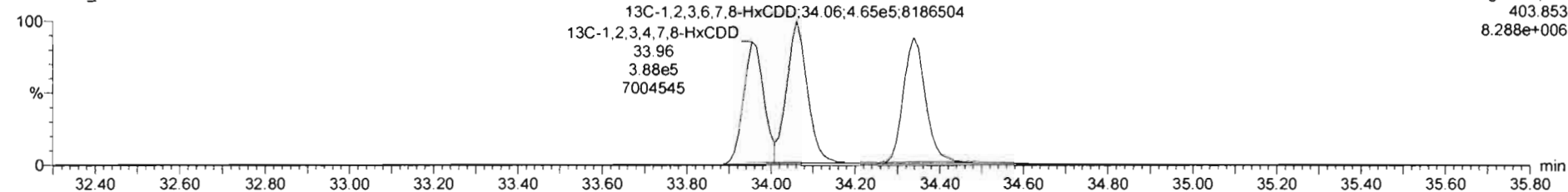


13C-1,2,3,4,7,8-HxCDD

200131R1_2



200131R1_2



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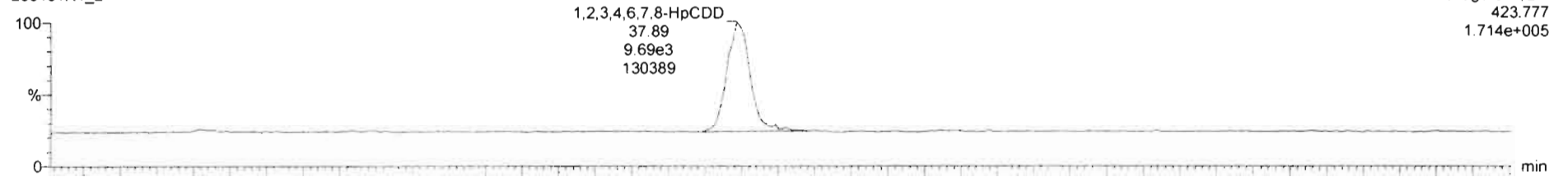
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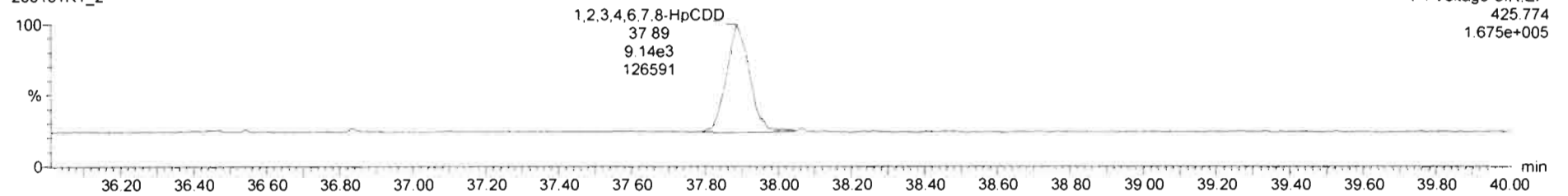
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1,2,3,4,6,7,8-HpCDD

200131R1_2

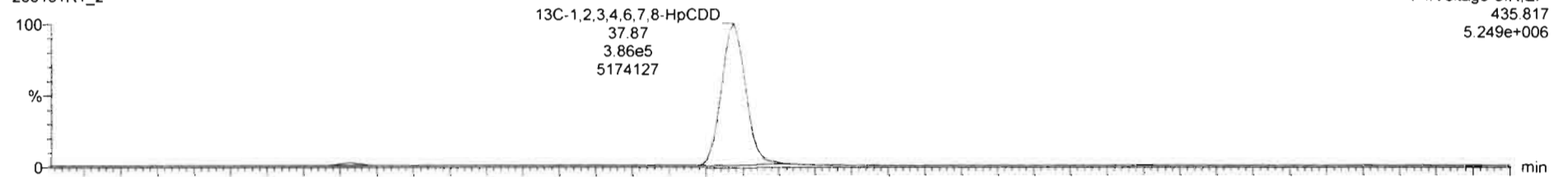


200131R1_2

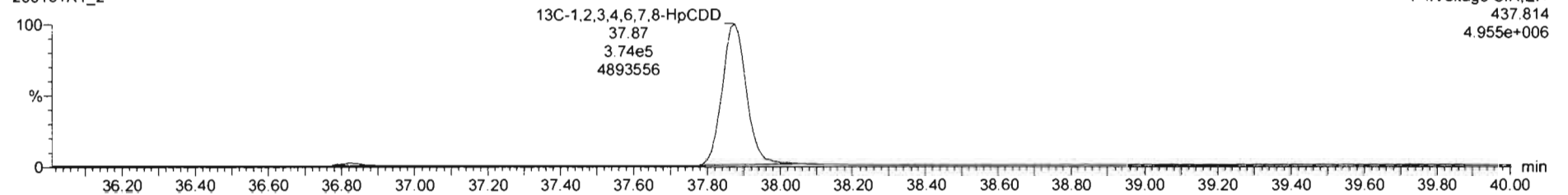


13C-1,2,3,4,6,7,8-HpCDD

200131R1_2



200131R1_2

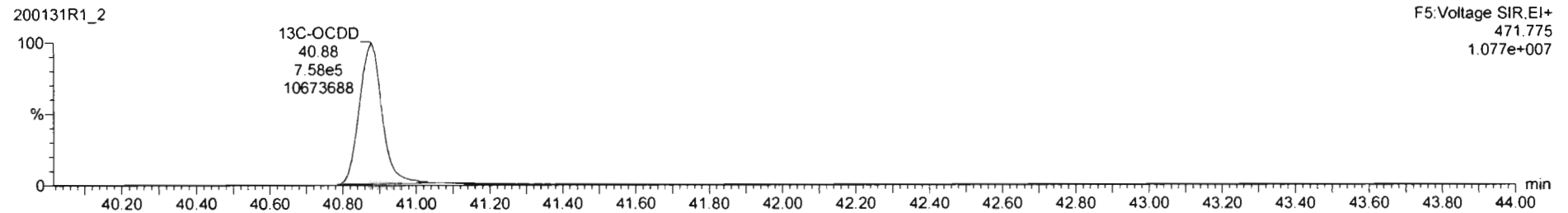
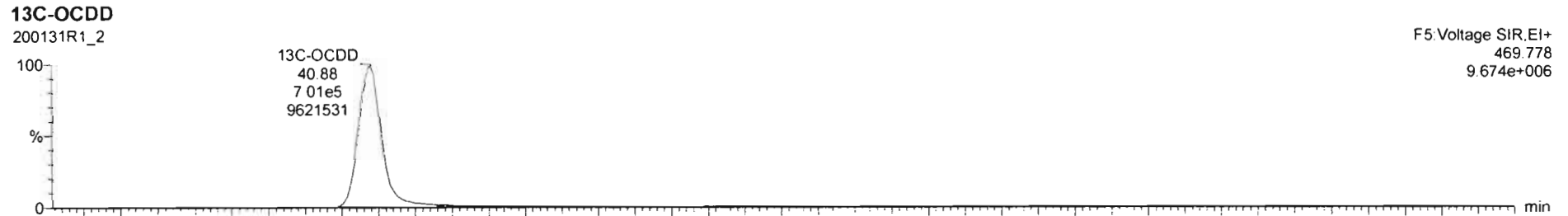
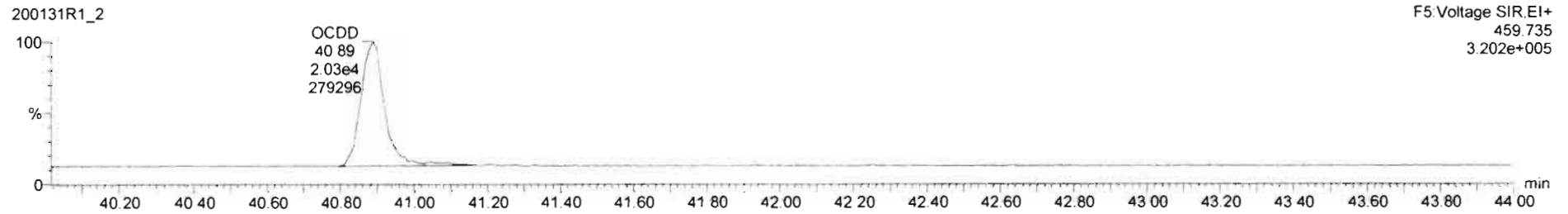
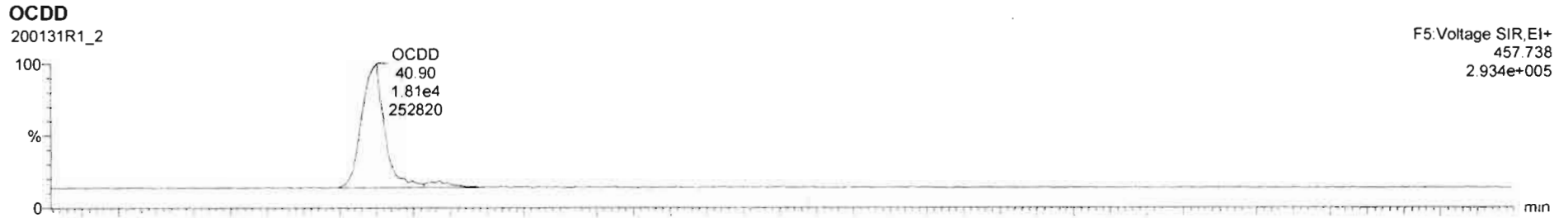


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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



Dataset: Untitled

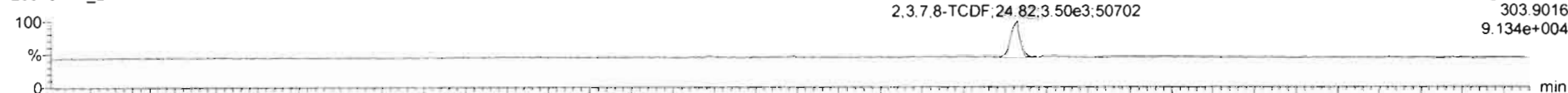
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

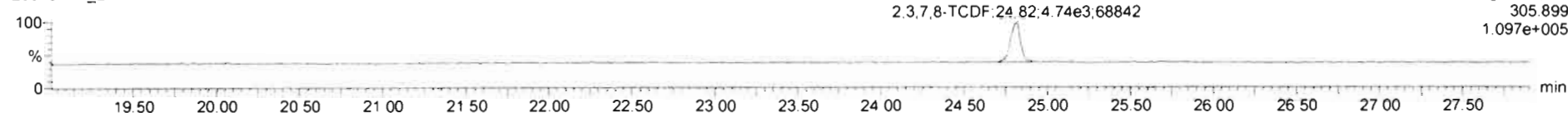
2,3,7,8-TCDF

200131R1_2



F1:Voltage SIR,EI+
303.9016
9.134e+004

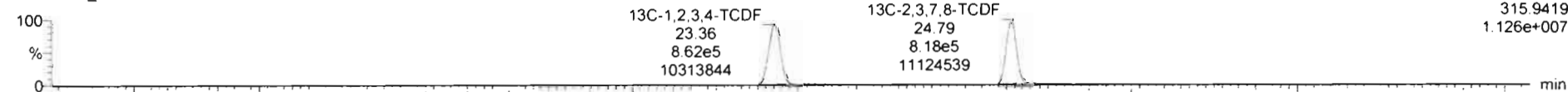
200131R1_2



F1:Voltage SIR,EI+
305.899
1.097e+005

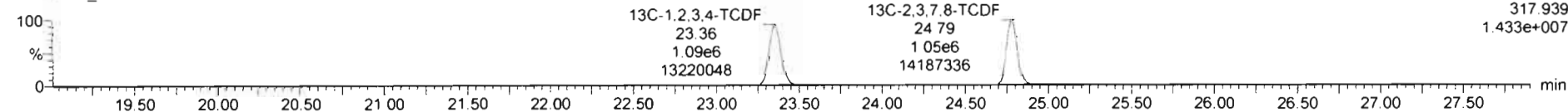
13C-2,3,7,8-TCDF

200131R1_2



F1:Voltage SIR,EI+
315.9419
1.126e+007

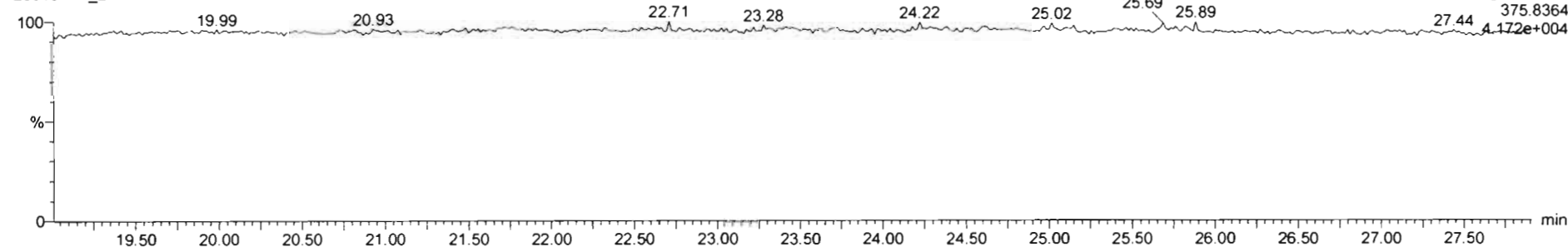
200131R1_2



F1:Voltage SIR,EI+
317.939
1.433e+007

DPE1

200131R1_2



F1:Voltage SIR,EI+
375.8364
4.172e+004

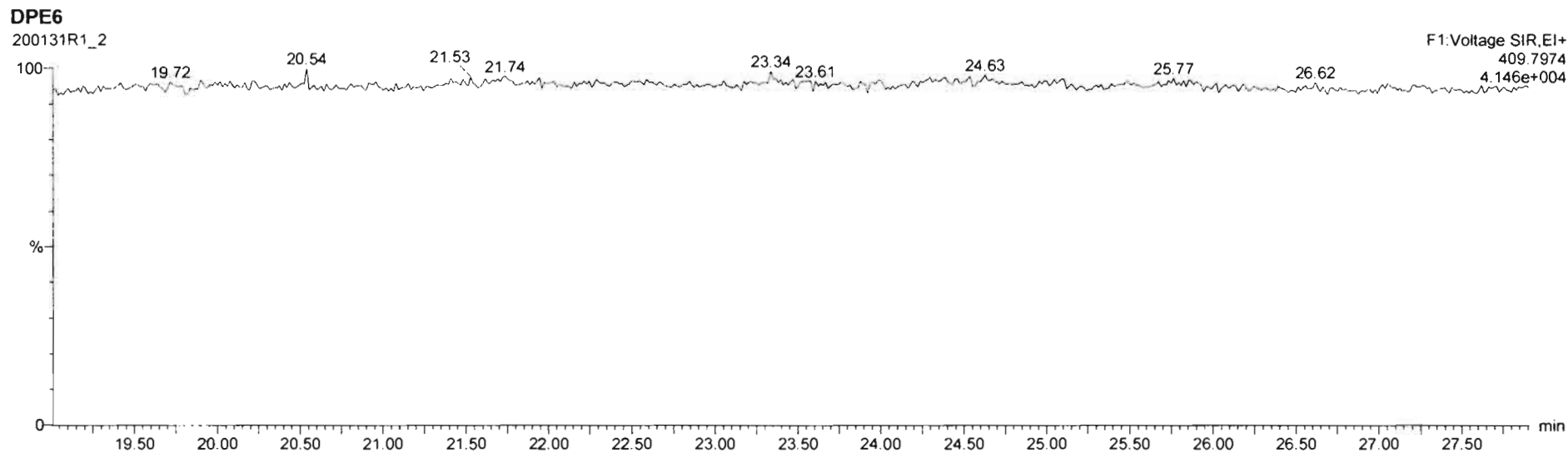
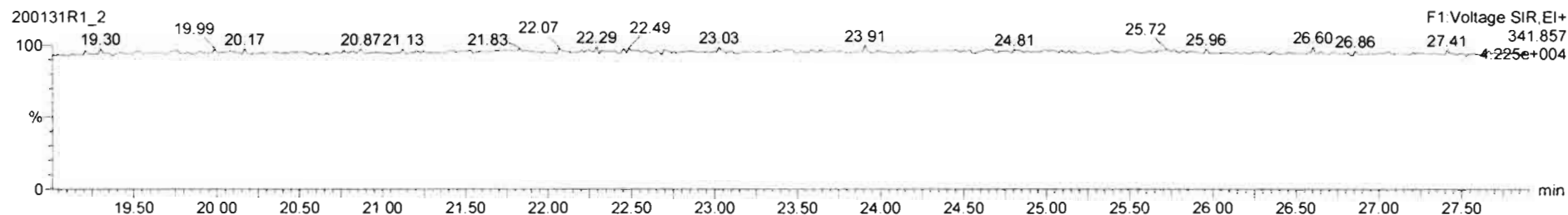
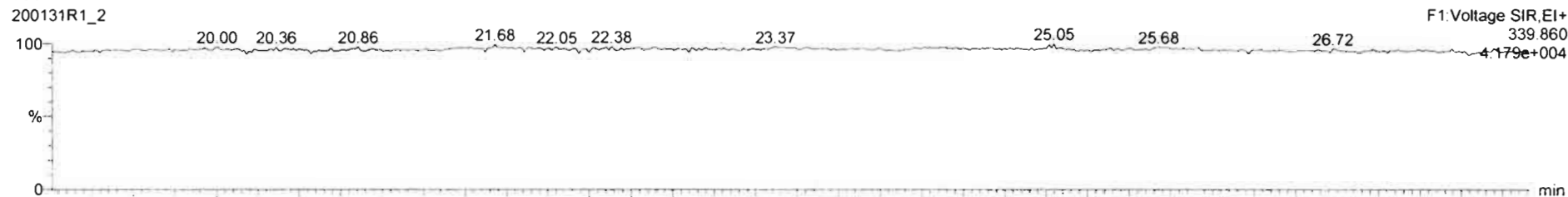
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans



Dataset: Untitled

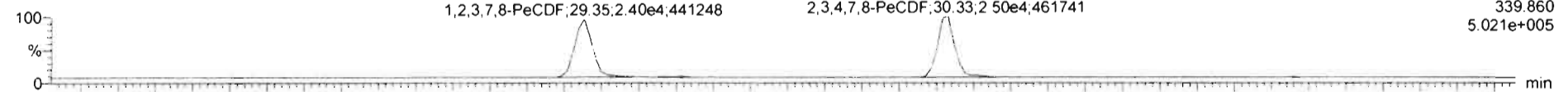
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

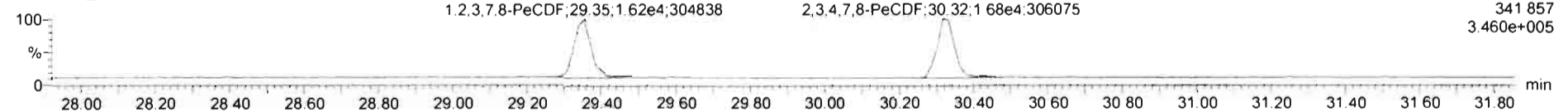
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1,2,3,7,8-PeCDF

200131R1_2

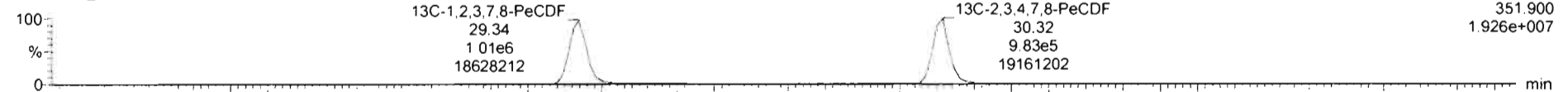


200131R1_2

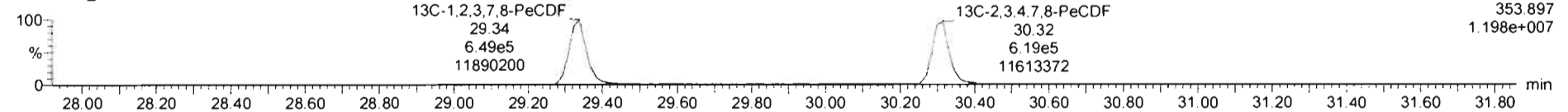


13C-1,2,3,7,8-PeCDF

200131R1_2

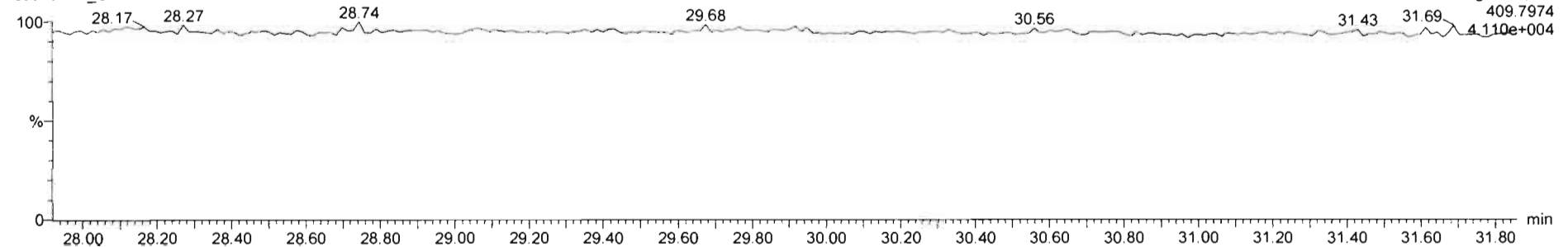


200131R1_2



DPE2

200131R1_2



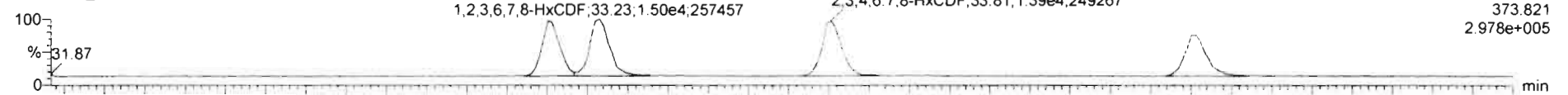
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

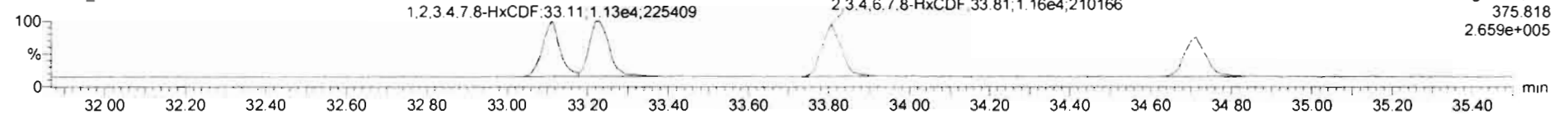
Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

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

200131R1_2

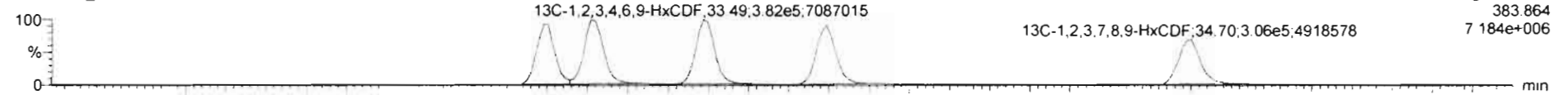


200131R1_2

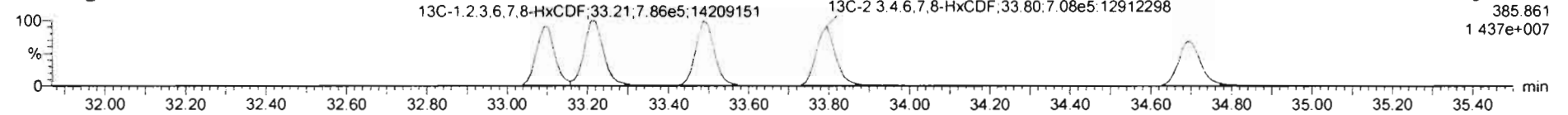


13C-1,2,3,4,7,8-HxCDF

200131R1_2

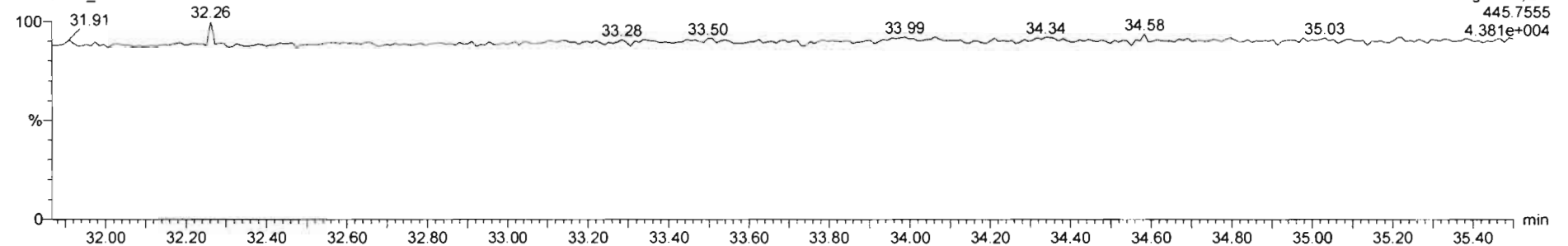


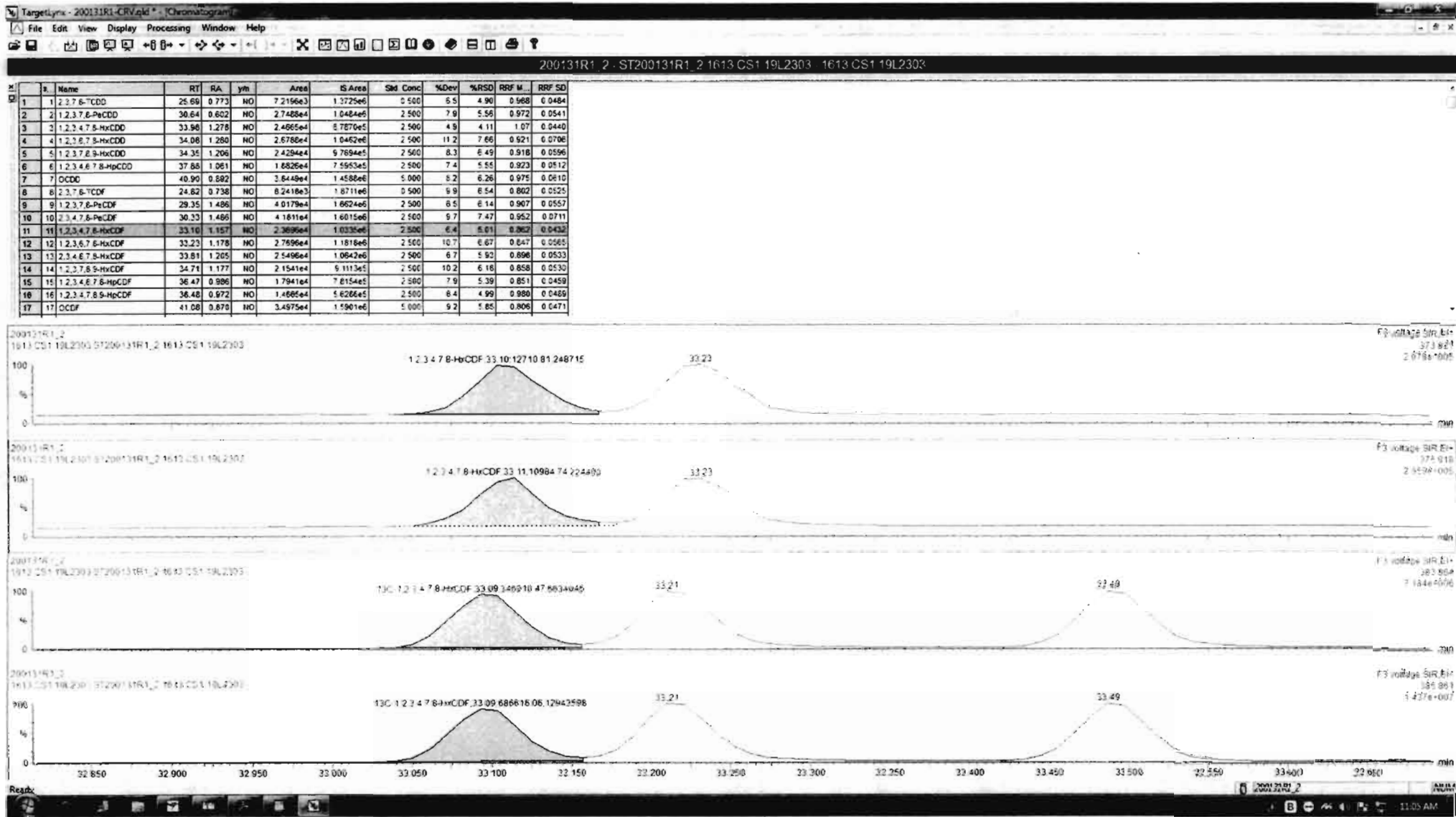
200131R1_2

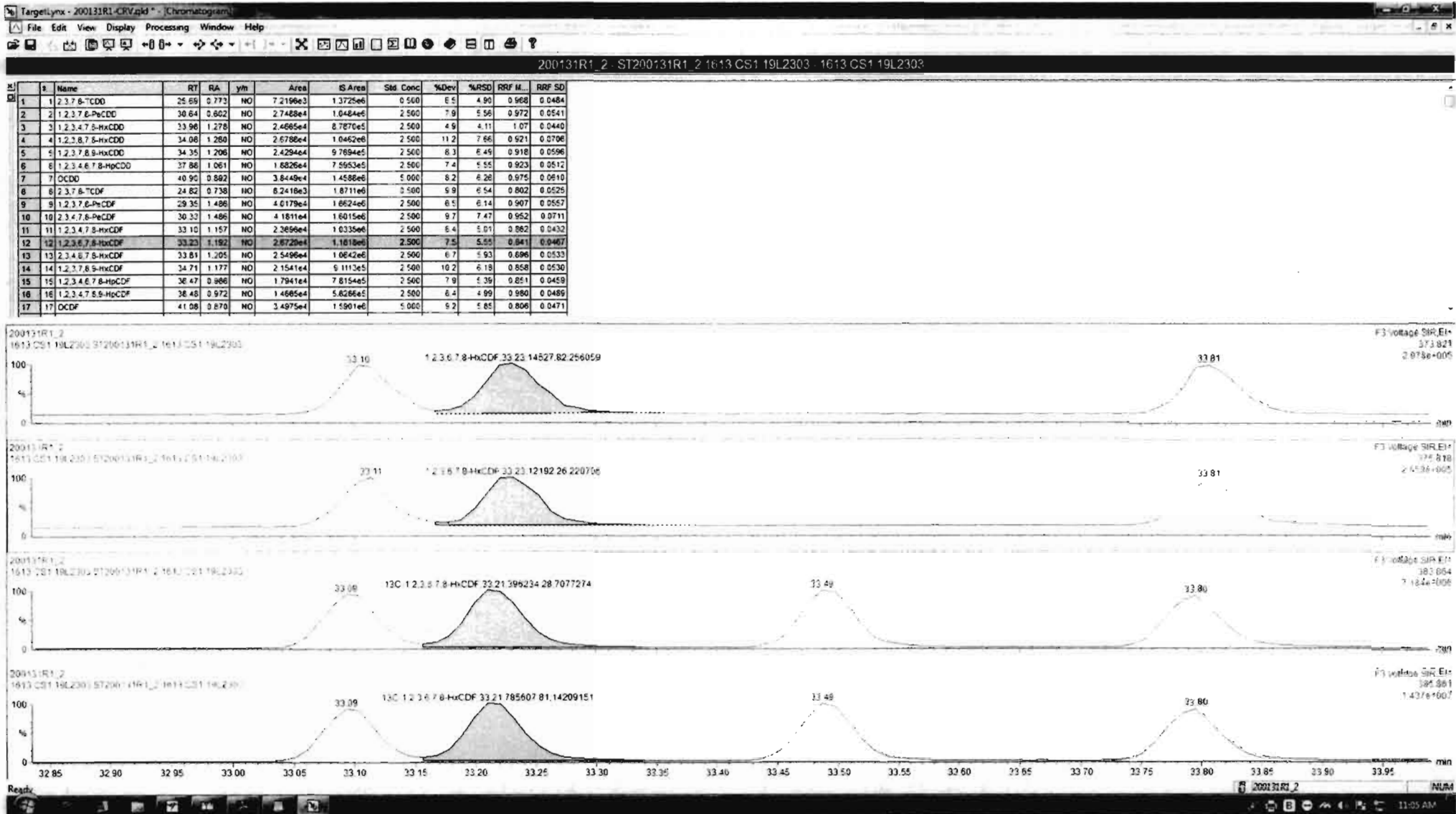


DPE3

200131R1_2







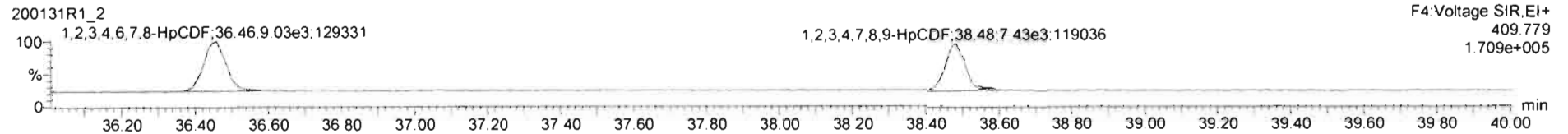
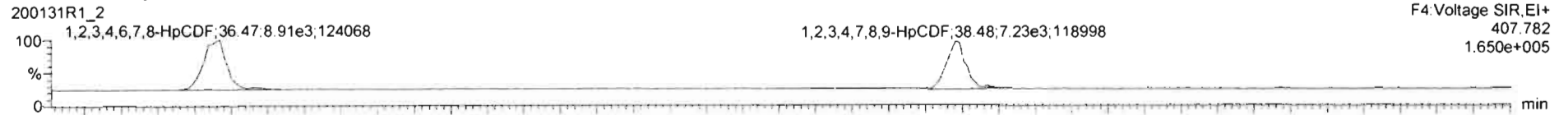
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

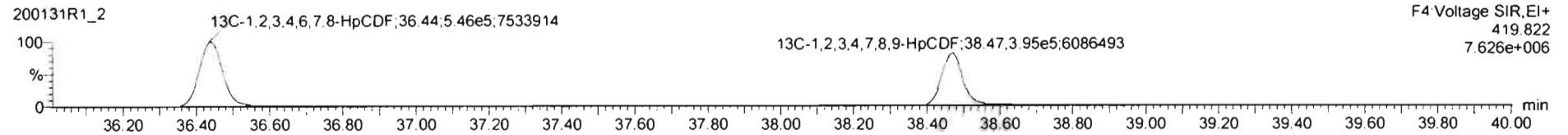
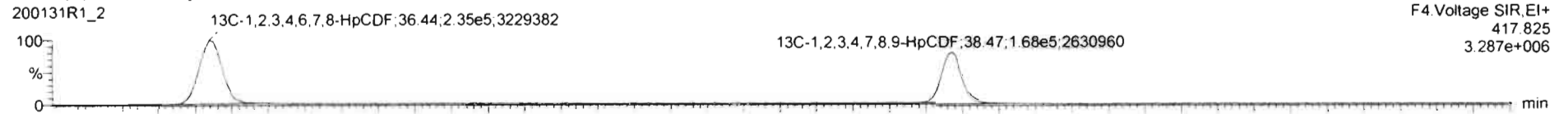
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_2, Date: 31-Jan-2020, Time: 17:37:04, ID: ST200131R1_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

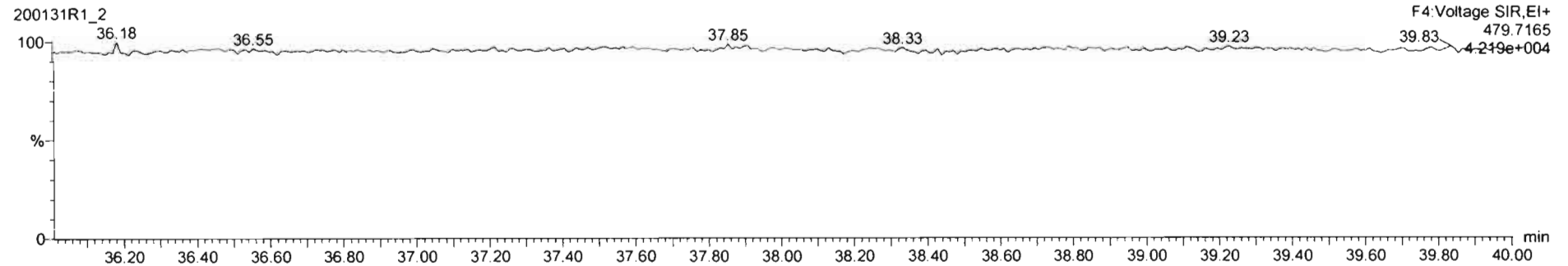
1,2,3,4,6,7,8-HpCDF



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



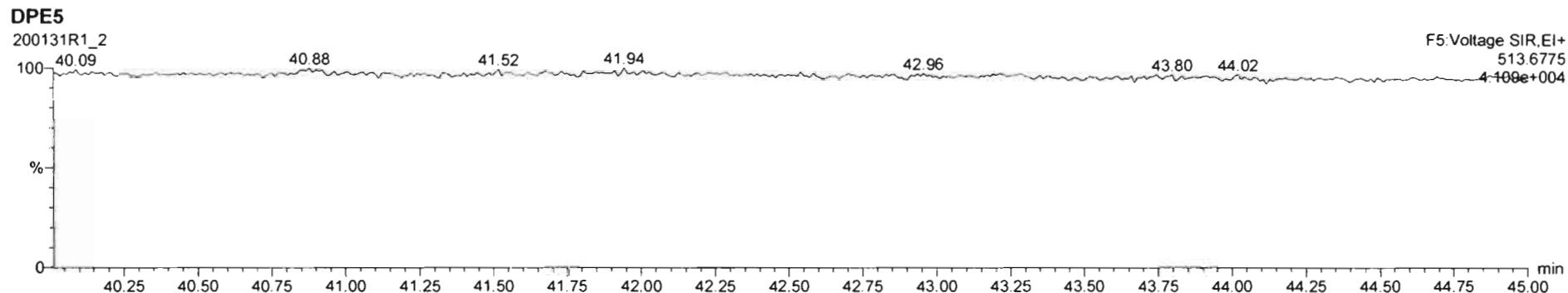
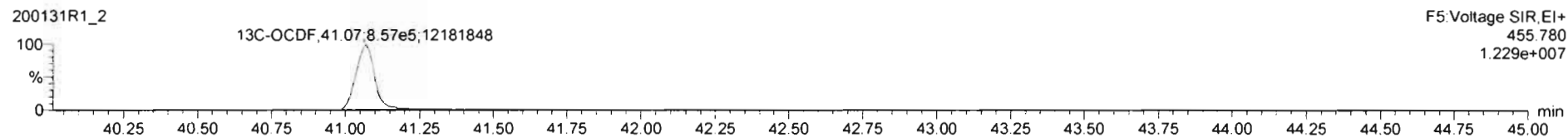
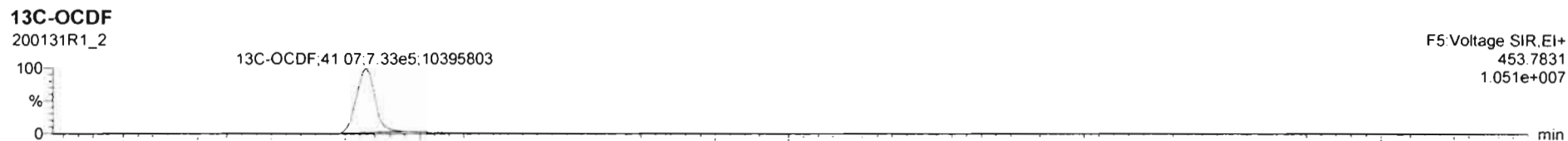
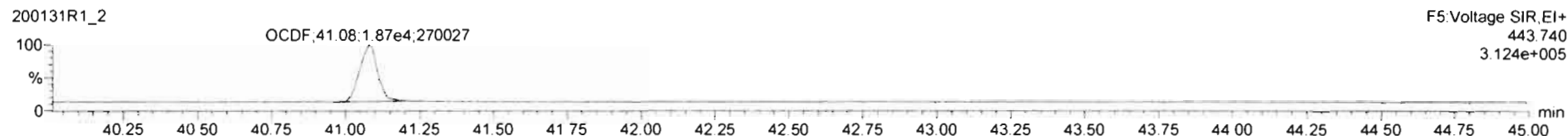
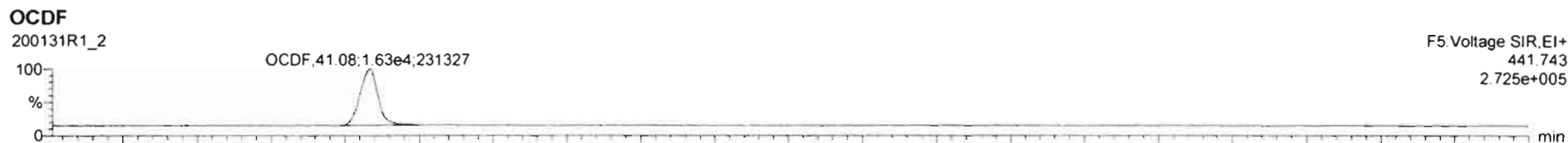
DPE4



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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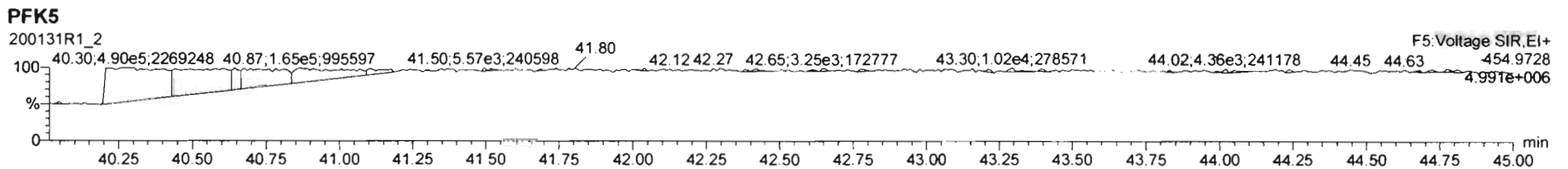
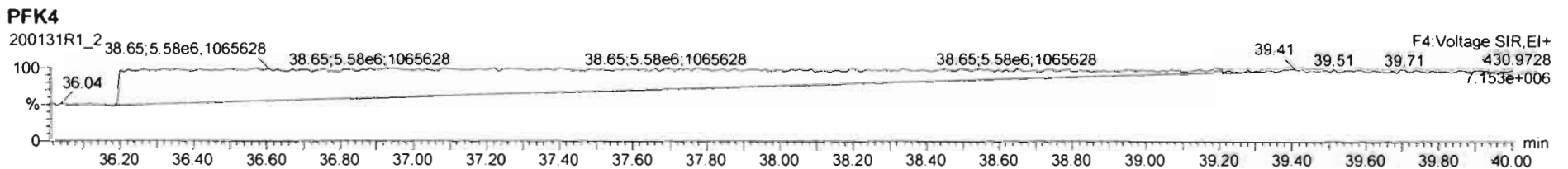
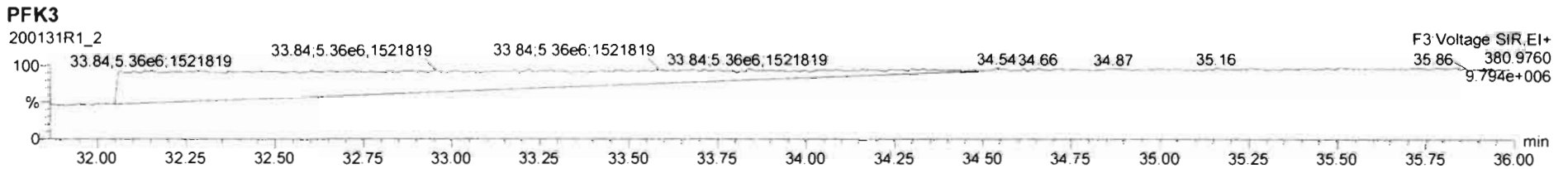
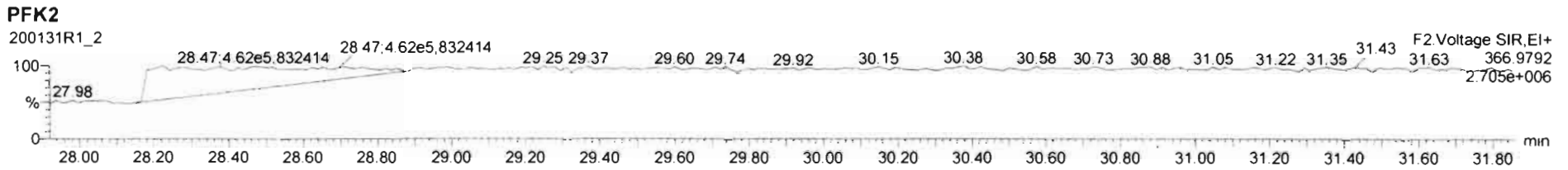
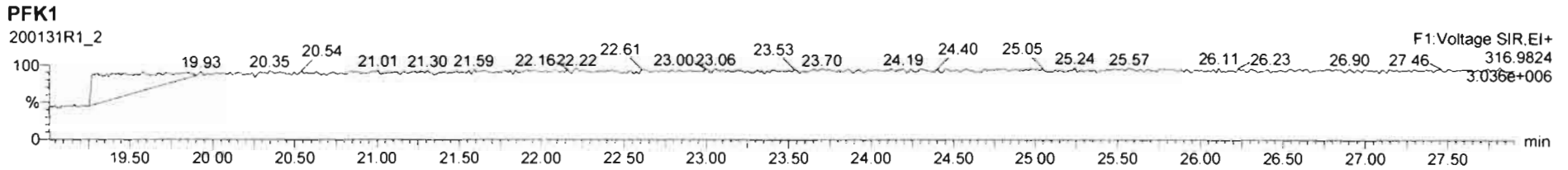


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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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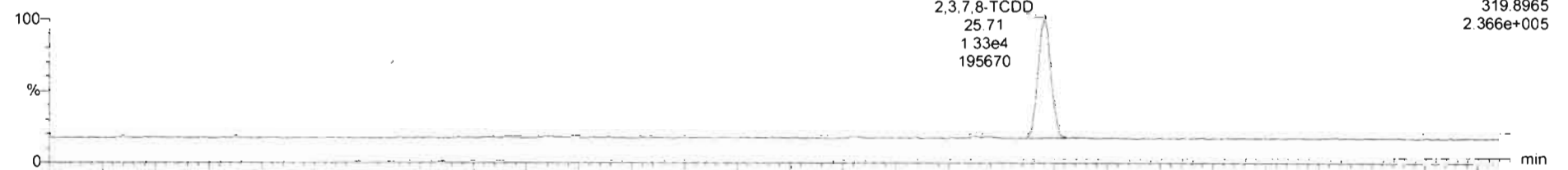
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Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

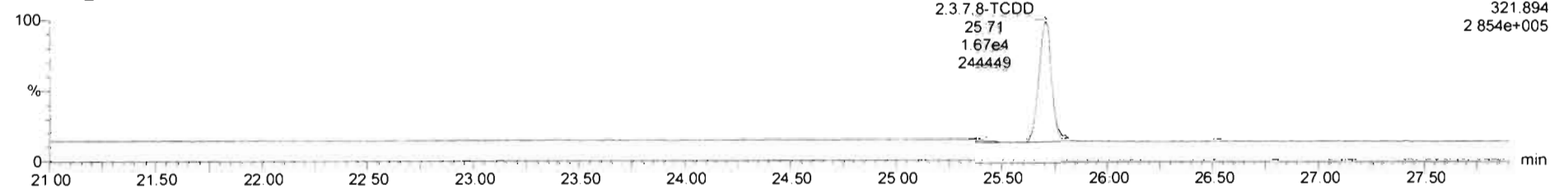
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2,3,7,8-TCDD

200131R1_3

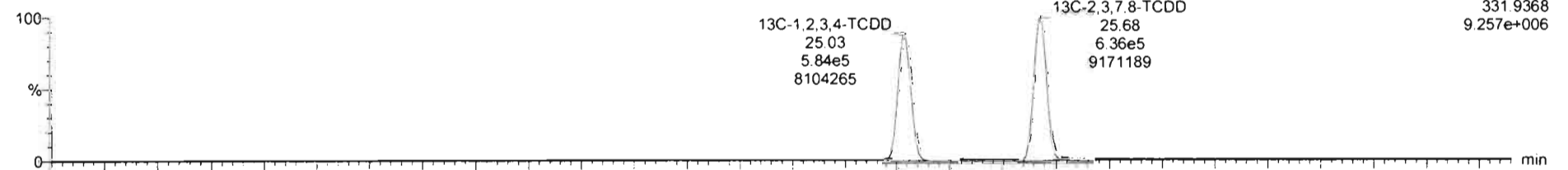


200131R1_3

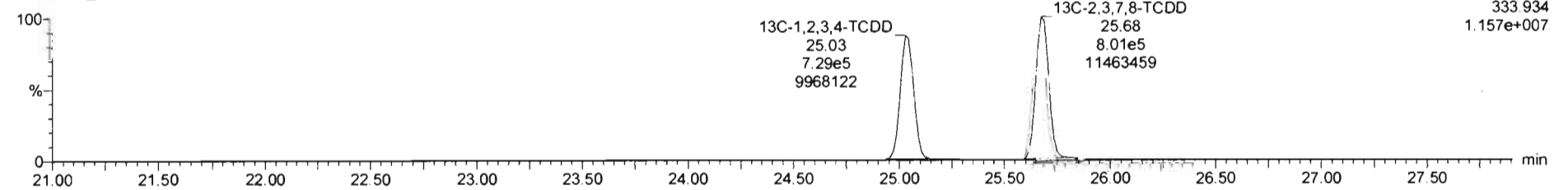


13C-2,3,7,8-TCDD

200131R1_3



200131R1_3



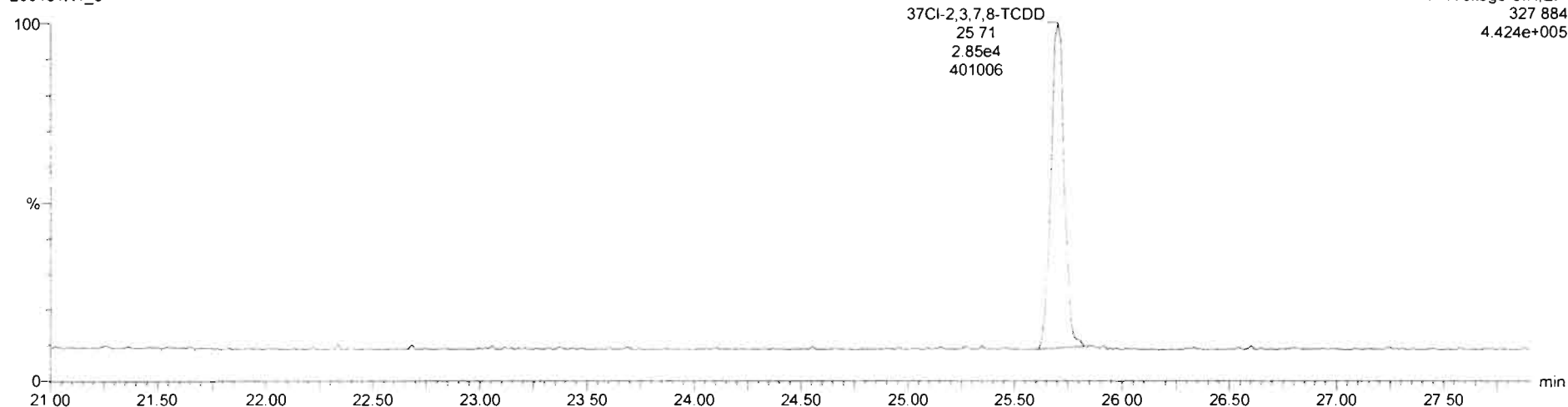
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

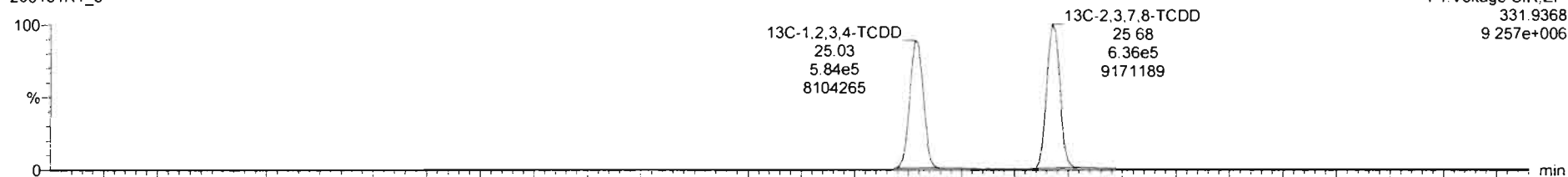
37Cl-2,3,7,8-TCDD

200131R1_3

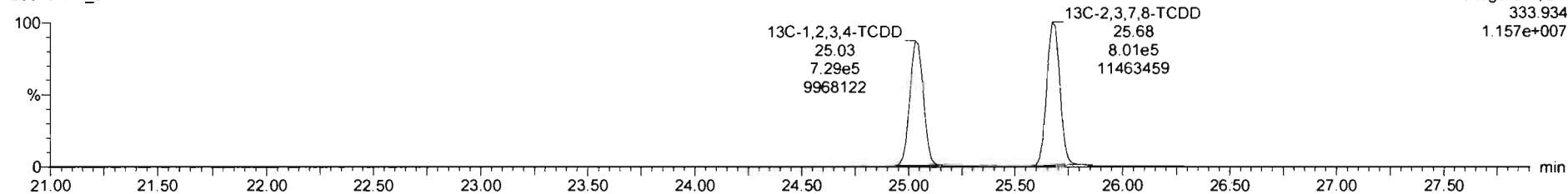


13C-1,2,3,4-TCDD

200131R1_3



200131R1_3



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

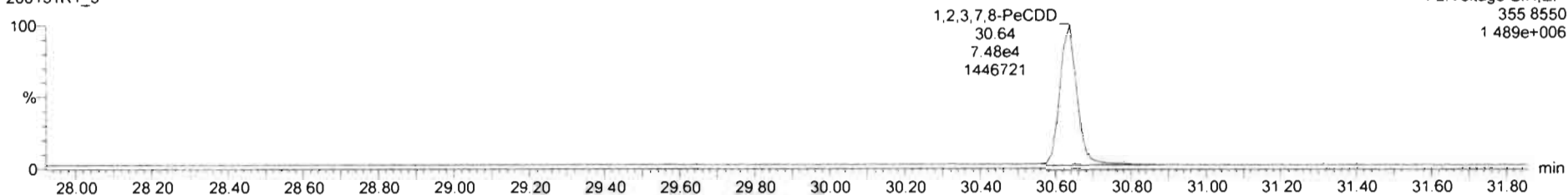
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1,2,3,7,8-PeCDD

200131R1_3

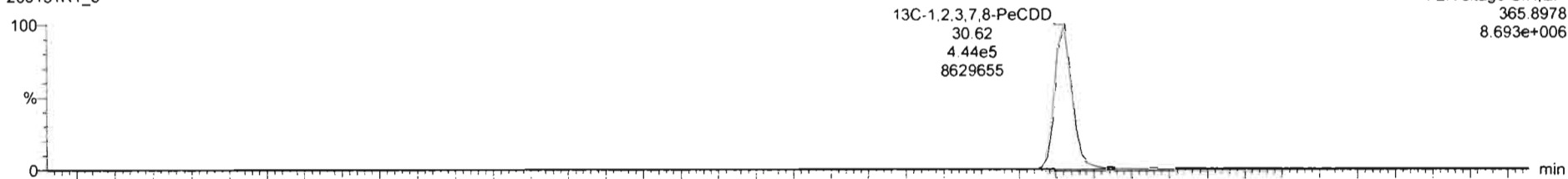


200131R1_3

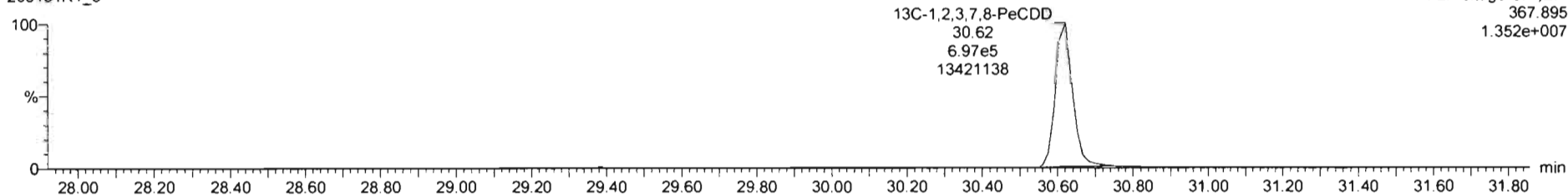


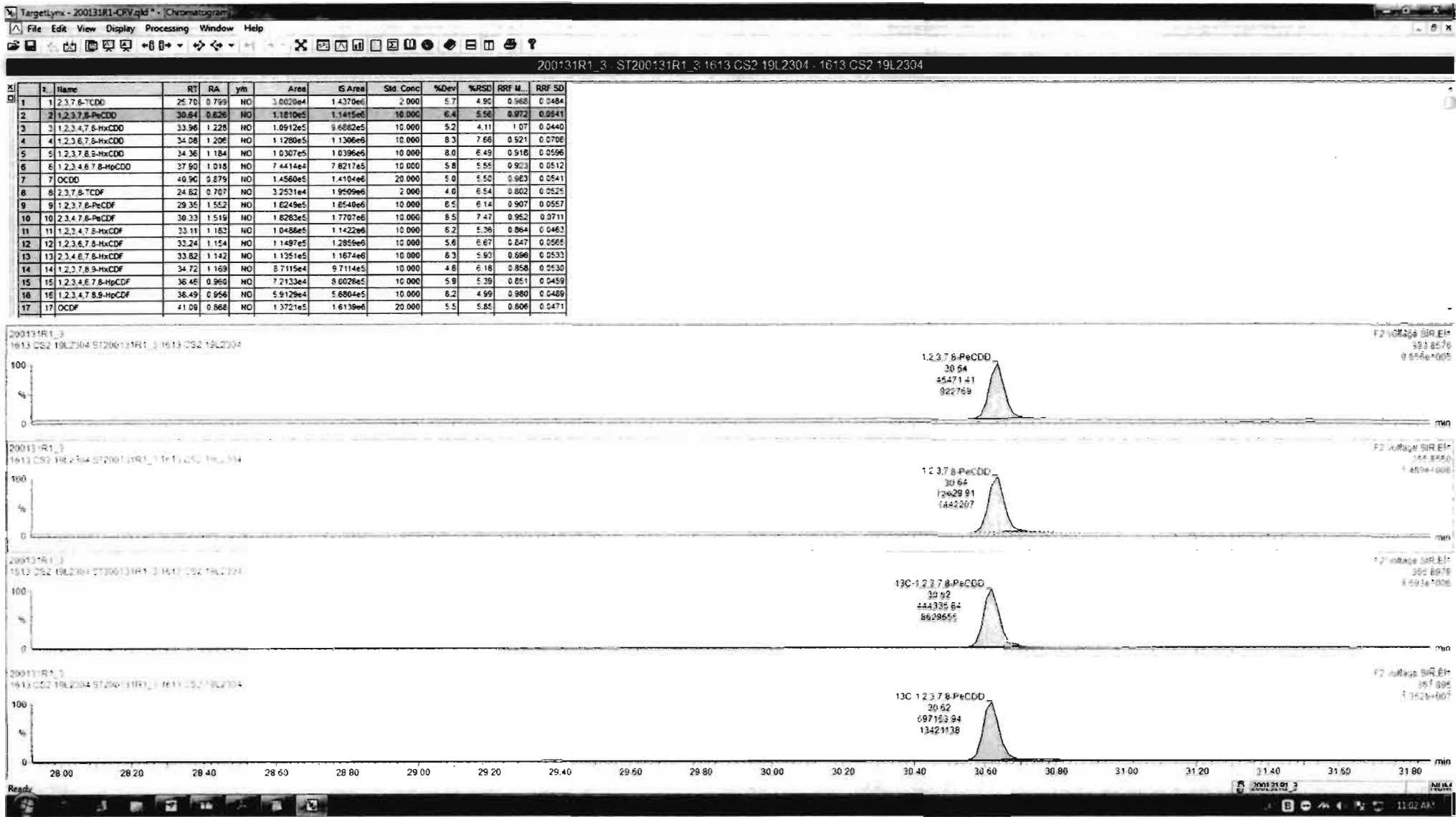
13C-1,2,3,7,8-PeCDD

200131R1_3



200131R1_3





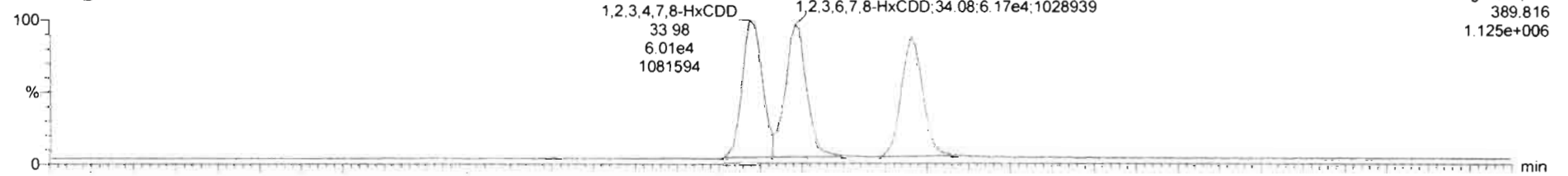
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

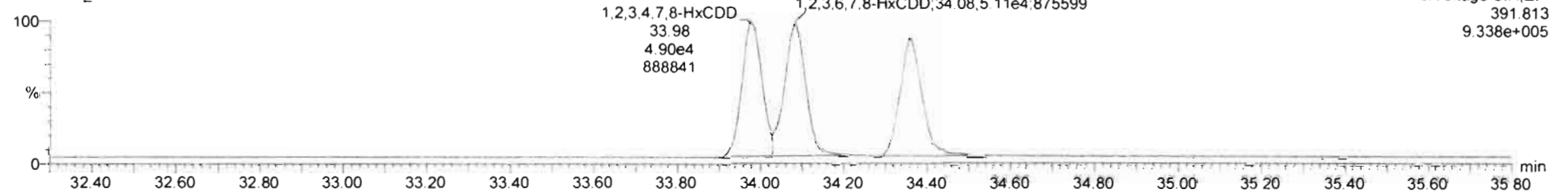
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1,2,3,4,7,8-HxCDD

200131R1_3

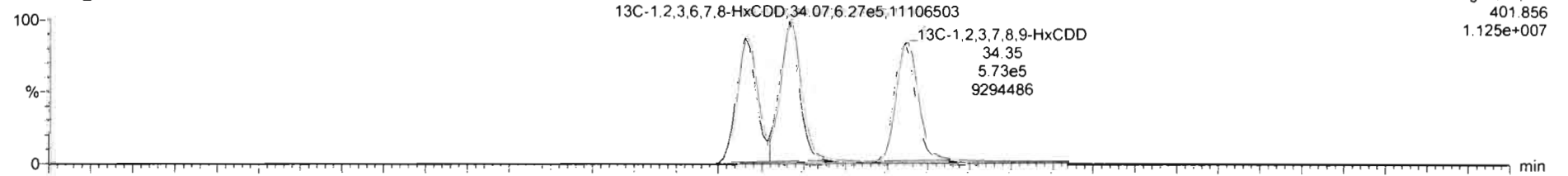


200131R1_3

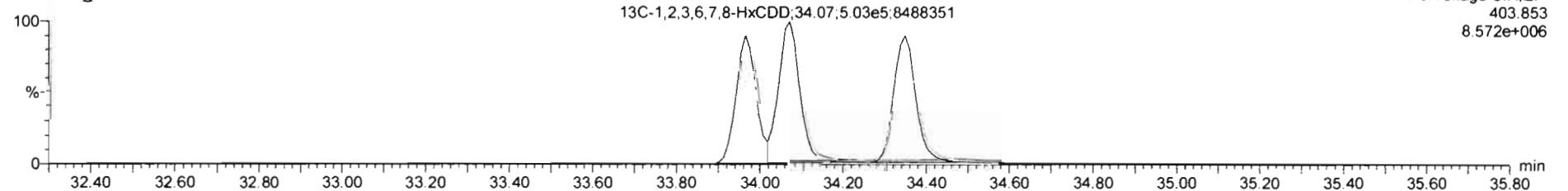


13C-1,2,3,4,7,8-HxCDD

200131R1_3



200131R1_3



Dataset: Untitled

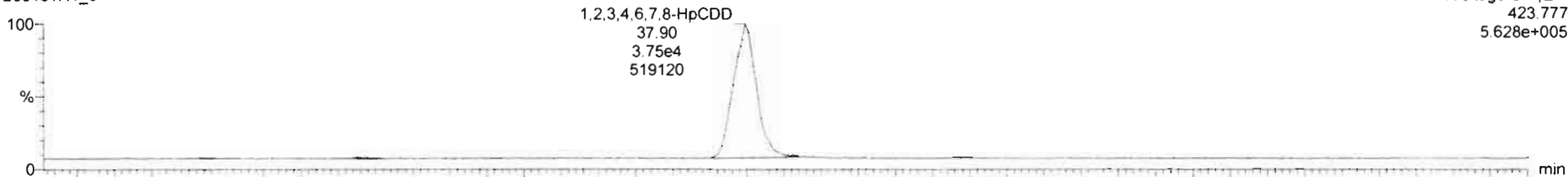
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

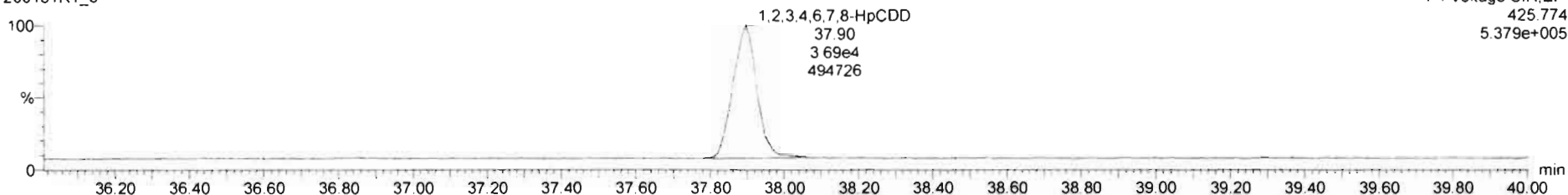
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1,2,3,4,6,7,8-HpCDD

200131R1_3

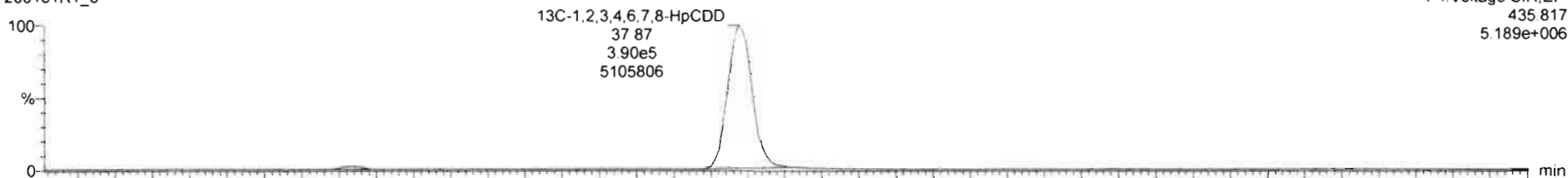


200131R1_3

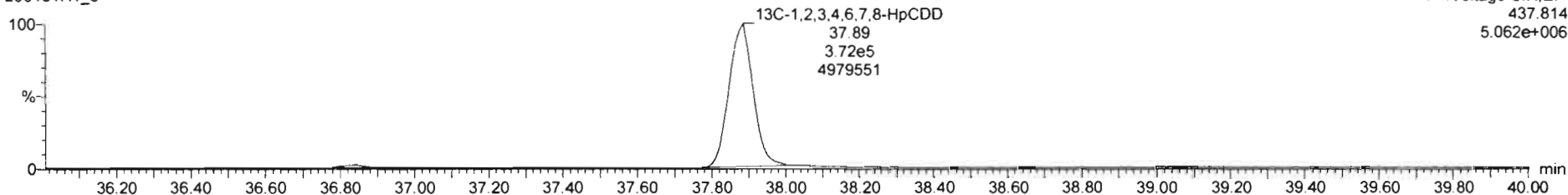


13C-1,2,3,4,6,7,8-HpCDD

200131R1_3



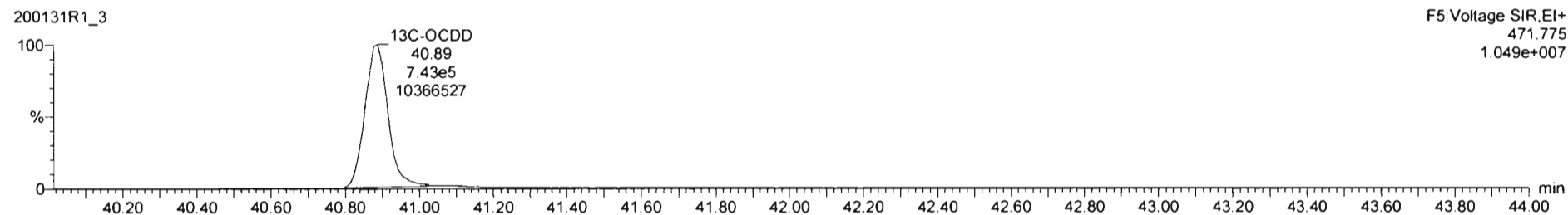
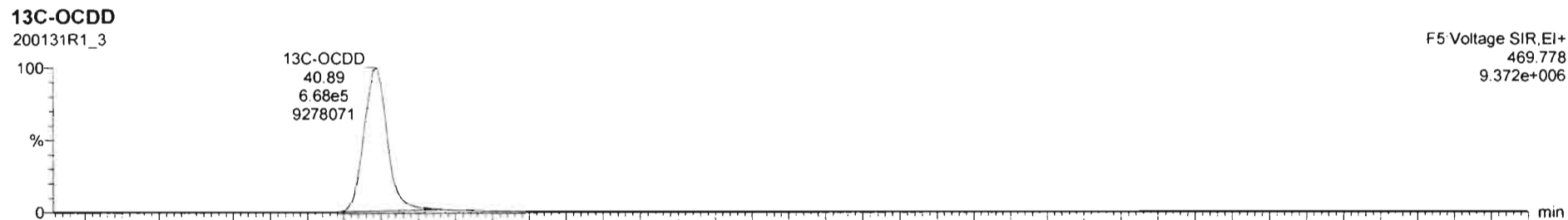
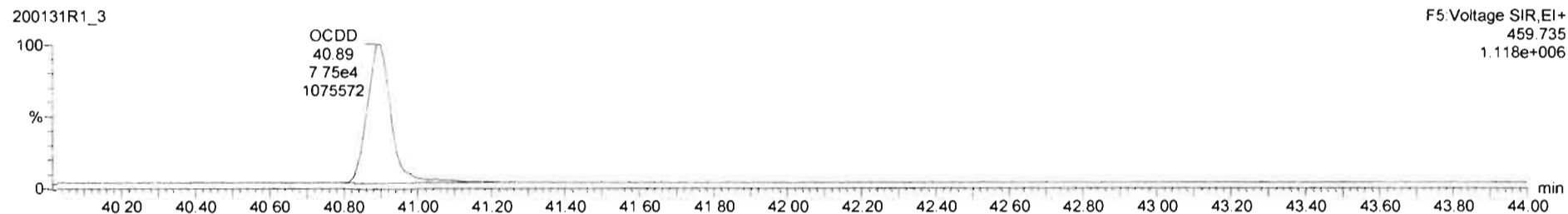
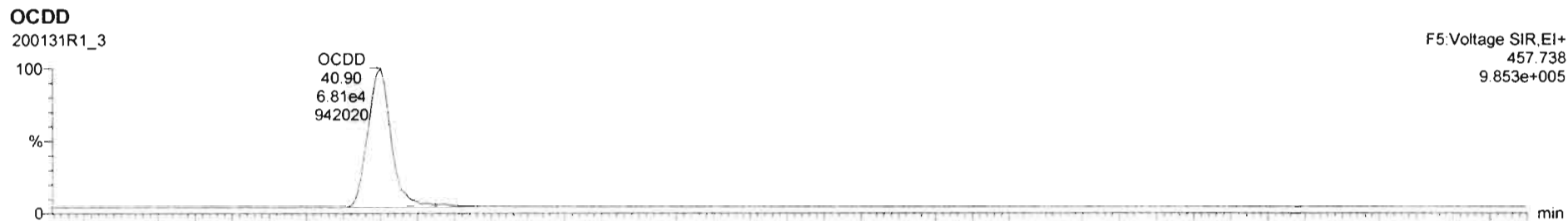
200131R1_3



Dataset: Untitled

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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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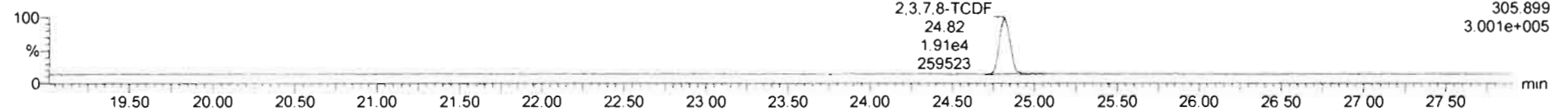
2,3,7,8-TCDF

200131R1_3



F1: Voltage SIR, EI+
303.9016
2.305e+005

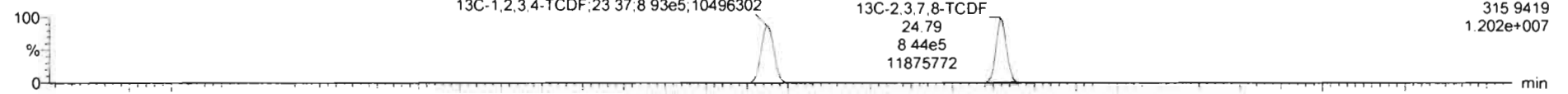
200131R1_3



F1: Voltage SIR, EI+
305.899
3.001e+005

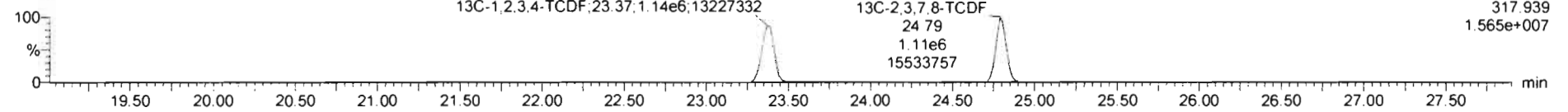
13C-2,3,7,8-TCDF

200131R1_3



F1: Voltage SIR, EI+
315.9419
1.202e+007

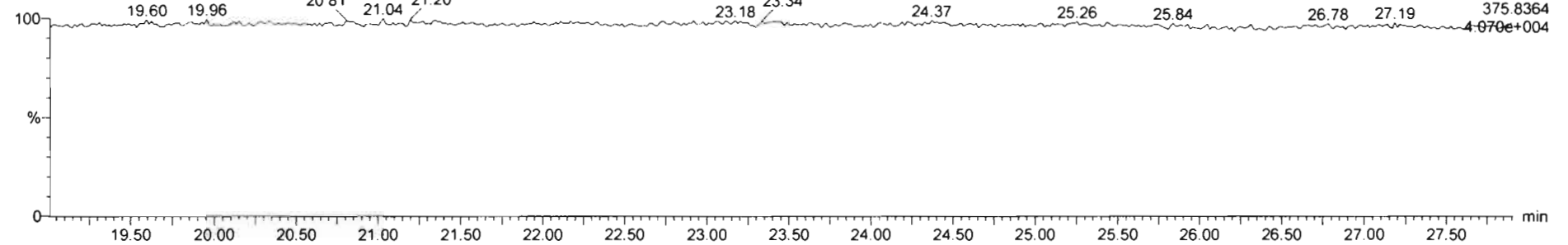
200131R1_3



F1: Voltage SIR, EI+
317.939
1.565e+007

DPE1

200131R1_3



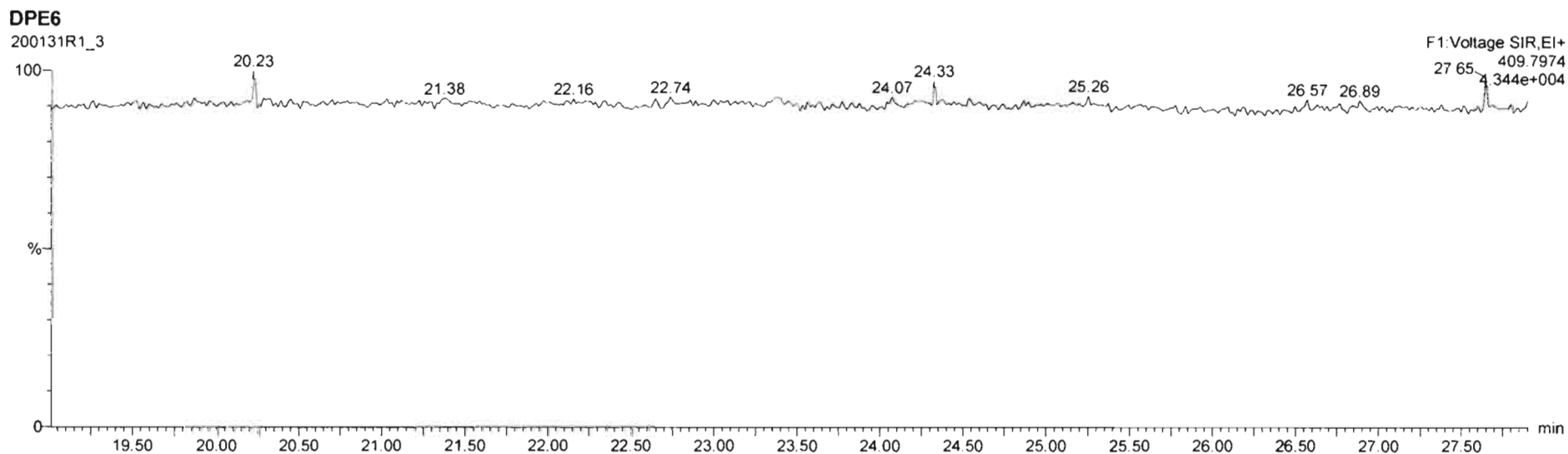
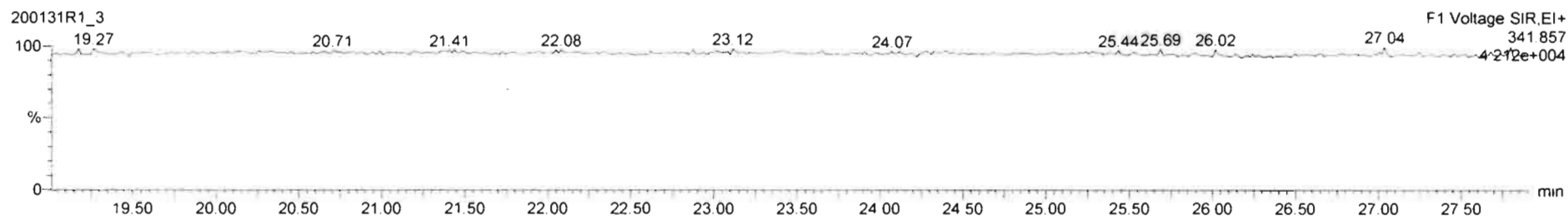
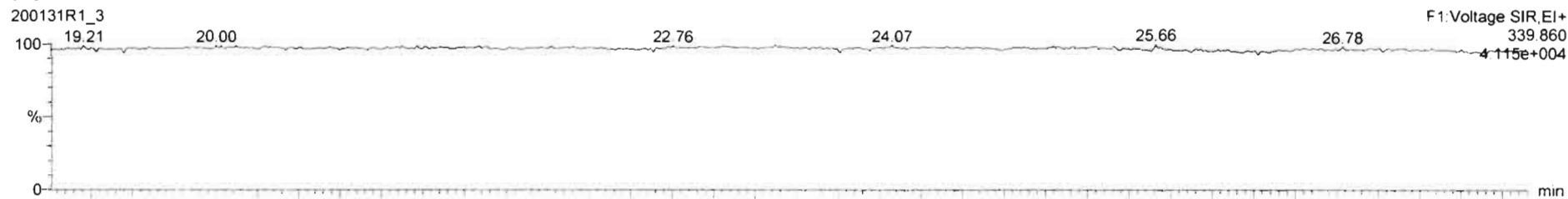
F1: Voltage SIR, EI+
375.8364
4.070e+004

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans



Dataset: Untitled

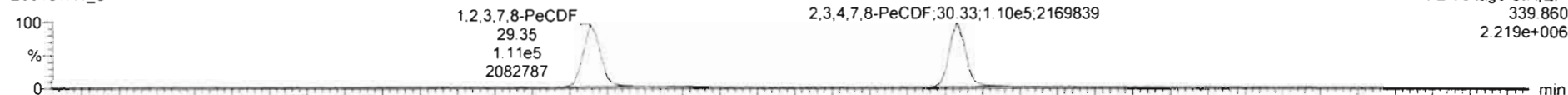
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Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

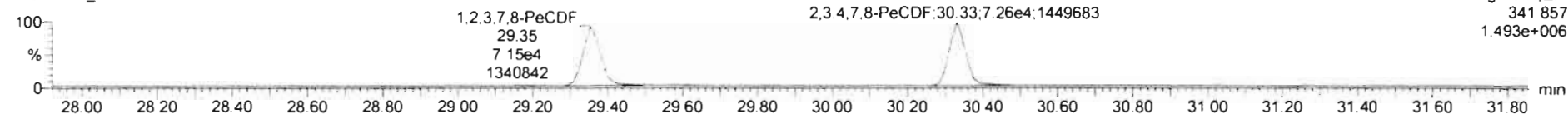
1,2,3,7,8-PeCDF

200131R1_3



F2: Voltage SIR, EI+
339.860
2.219e+006

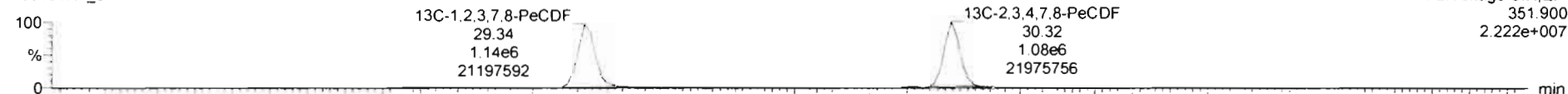
200131R1_3



F2: Voltage SIR, EI+
341.857
1.493e+006

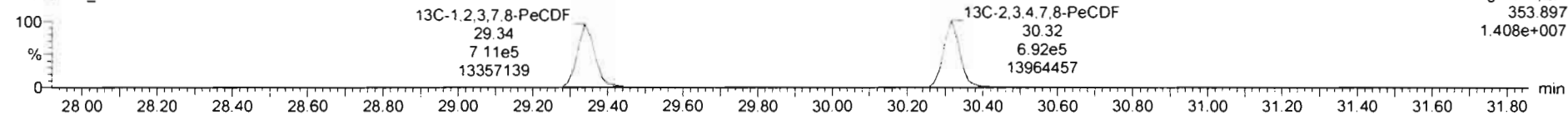
13C-1,2,3,7,8-PeCDF

200131R1_3



F2: Voltage SIR, EI+
351.900
2.222e+007

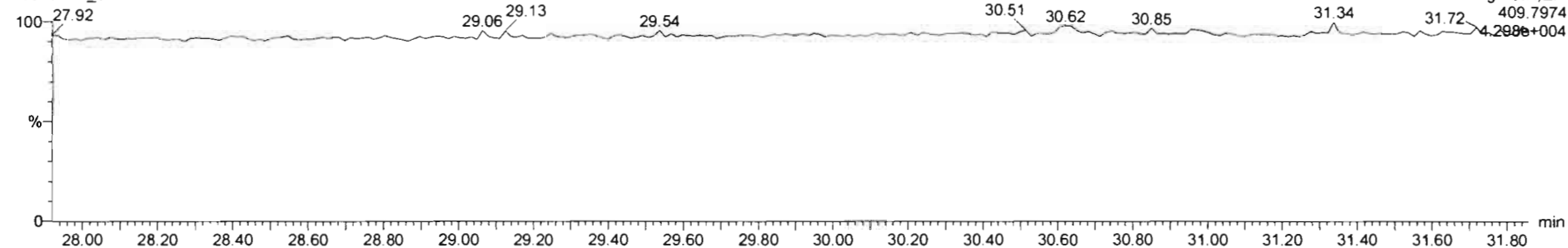
200131R1_3



F2: Voltage SIR, EI+
353.897
1.408e+007

DPE2

200131R1_3



F2: Voltage SIR, EI+
409.7974
4.298e+004

Dataset: Untitled

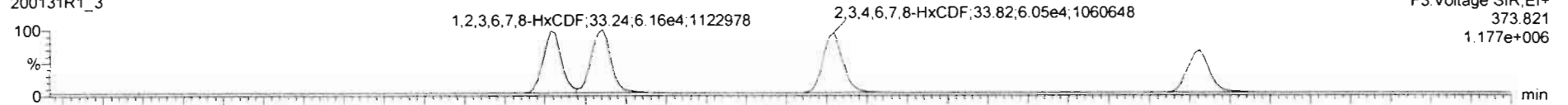
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Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

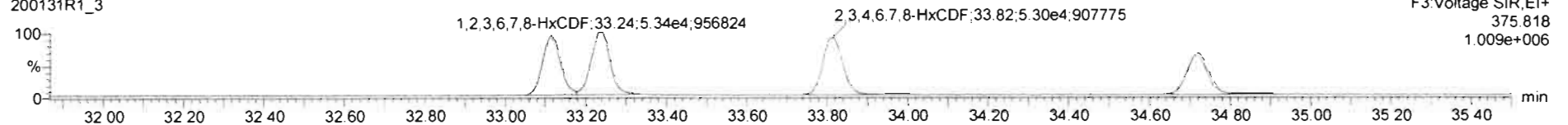
1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
373.821
1.177e+006

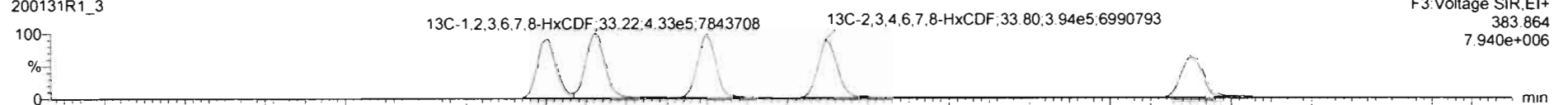
200131R1_3



F3: Voltage SIR, EI+
375.818
1.009e+006

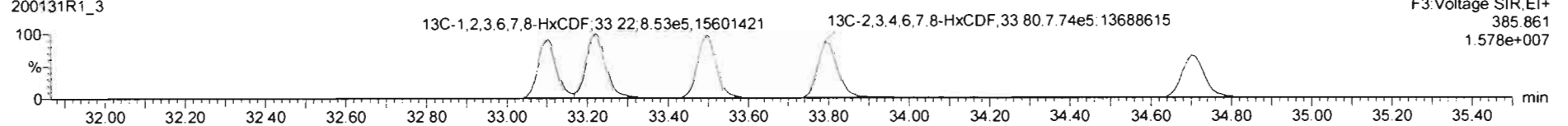
13C-1,2,3,4,7,8-HxCDF

200131R1_3



F3: Voltage SIR, EI+
383.864
7.940e+006

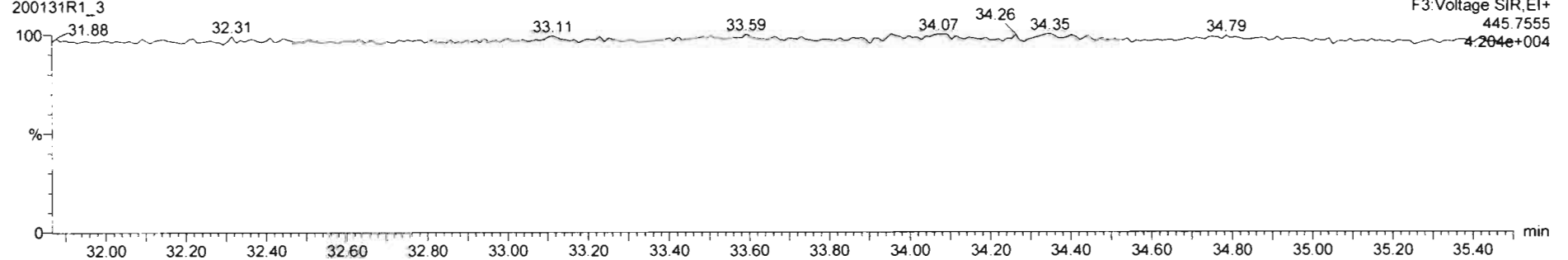
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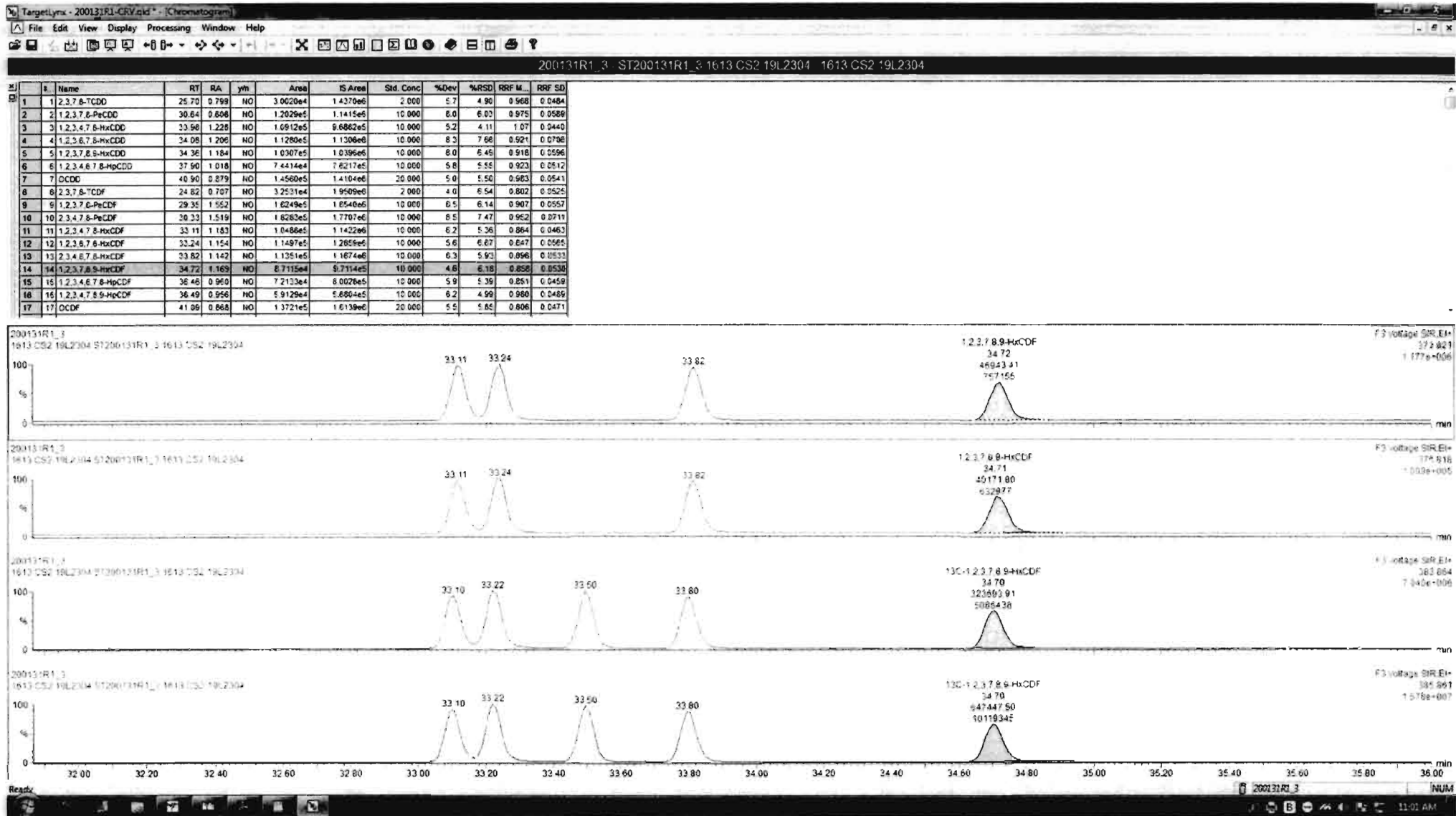
F3: Voltage SIR, EI+
385.861
1.578e+007

DPE3

200131R1_3



F3: Voltage SIR, EI+
445.7555
4.204e+004

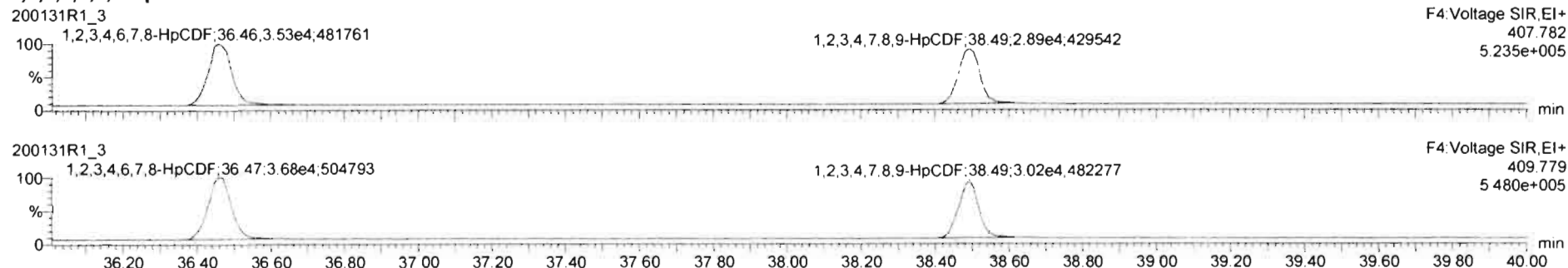


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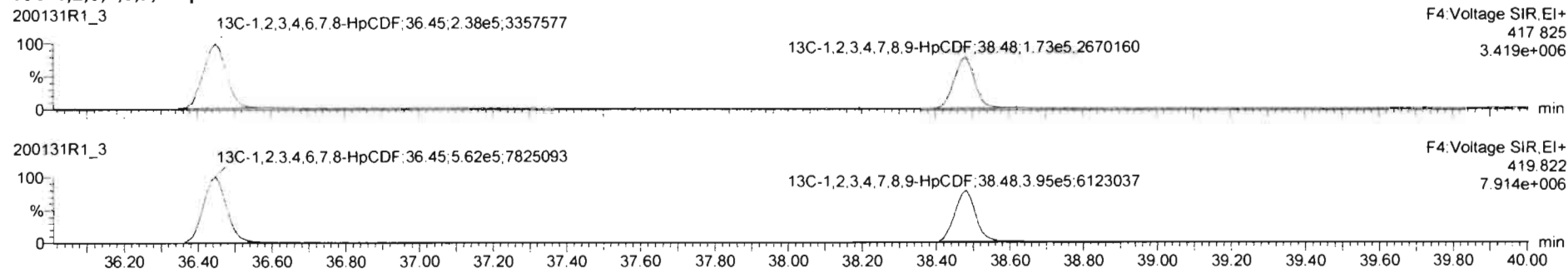
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Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

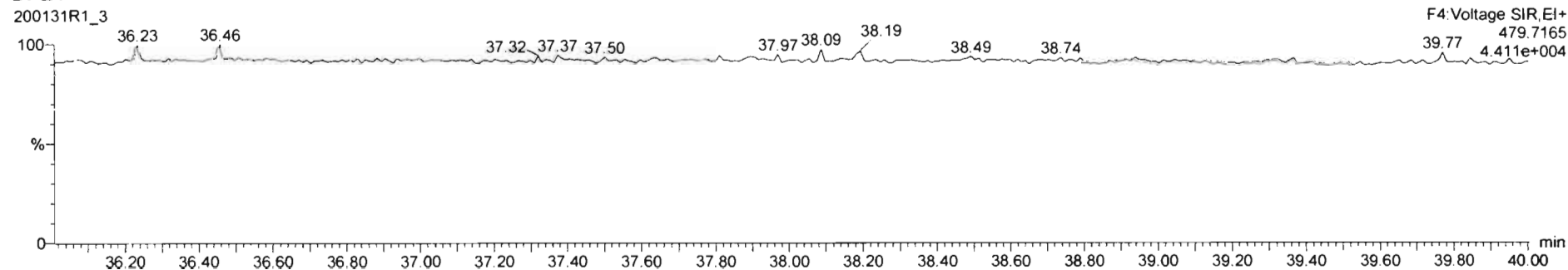
1,2,3,4,6,7,8-HpCDF



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



DPE4



Dataset: Untitled

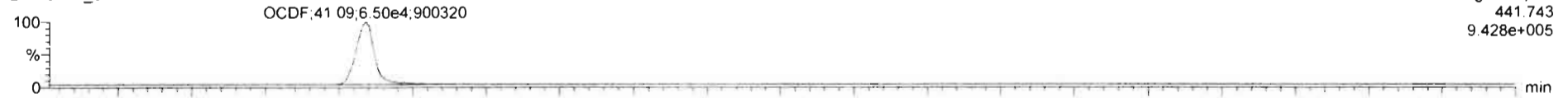
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

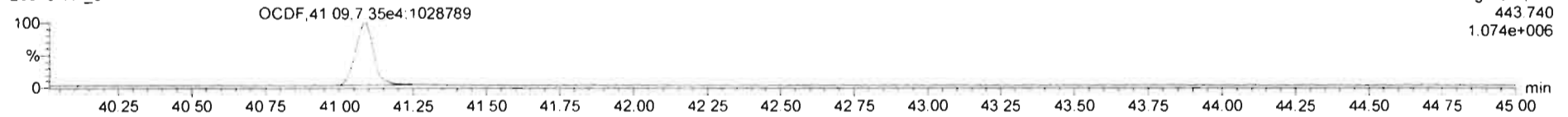
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OCDF

200131R1_3

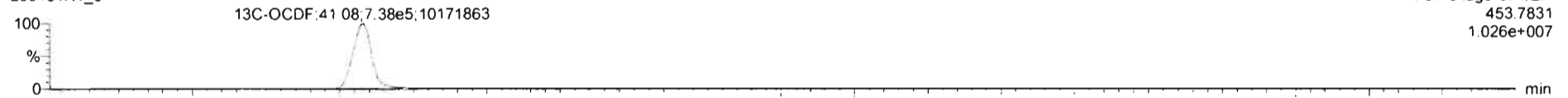


200131R1_3

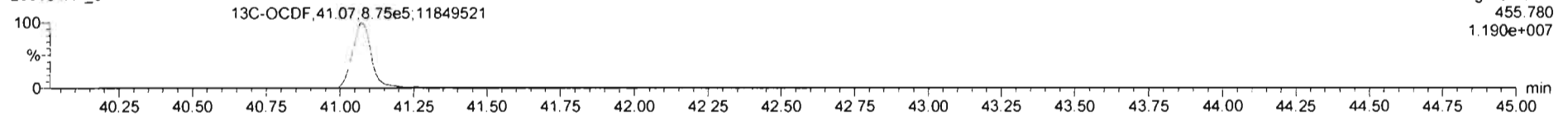


13C-OCDF

200131R1_3

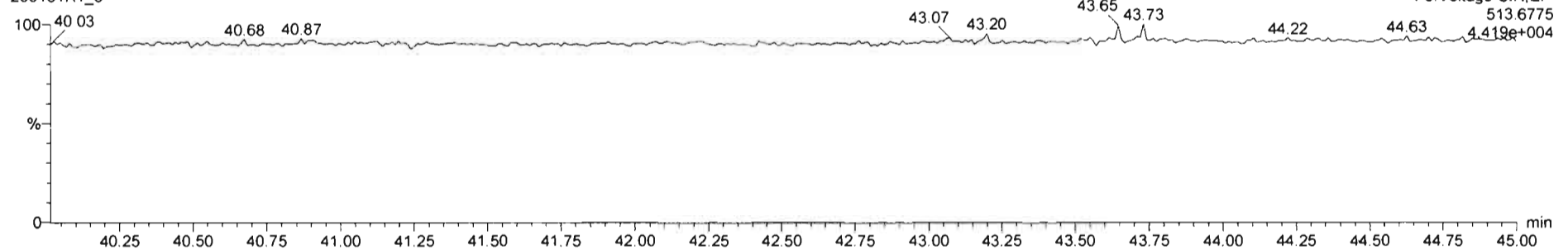


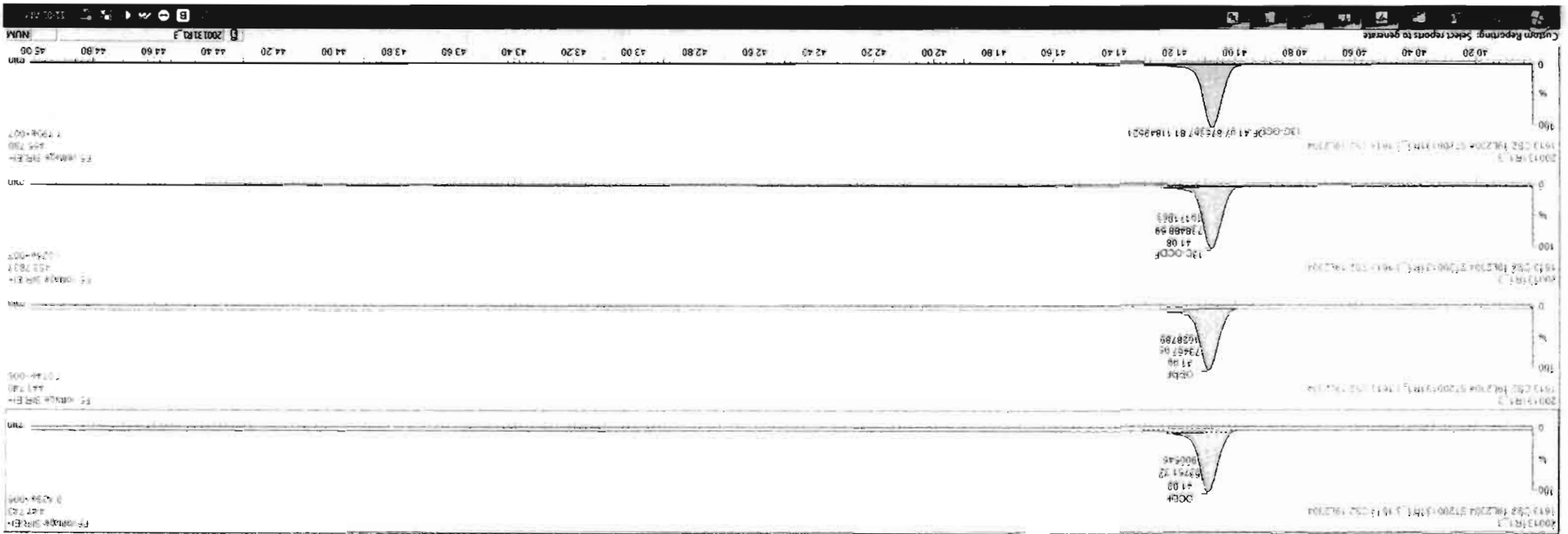
200131R1_3



DPE5

200131R1_3





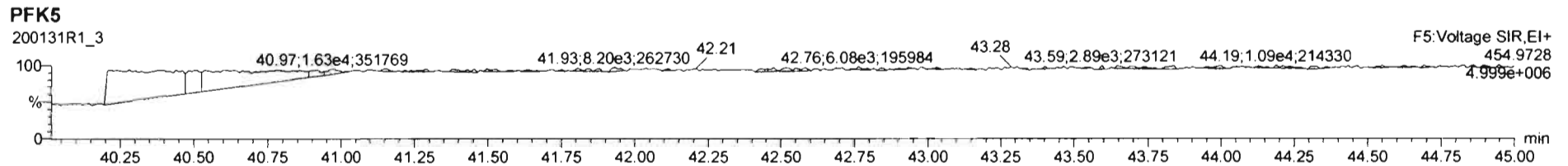
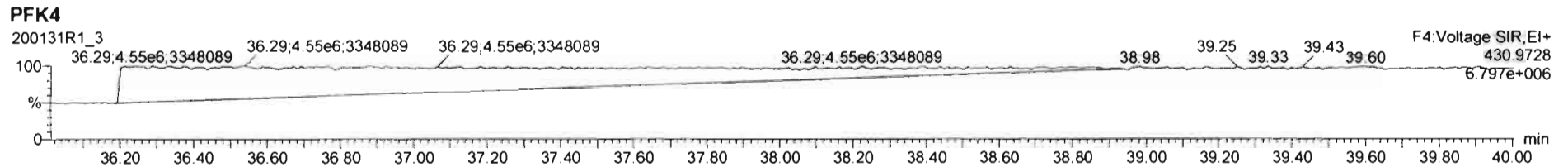
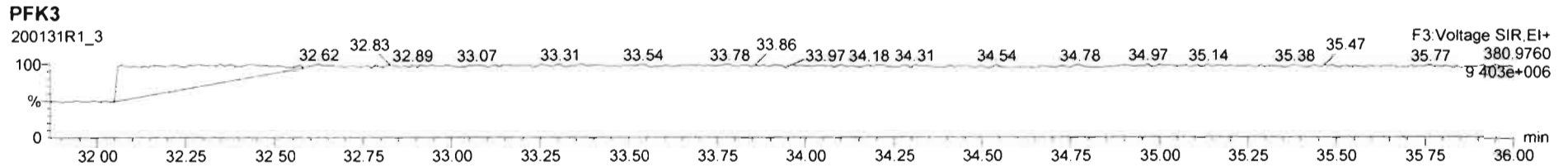
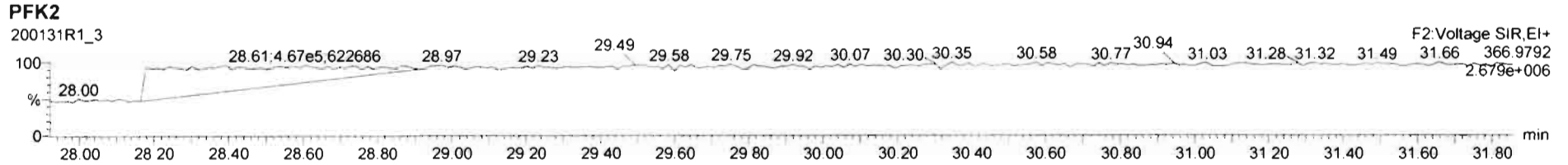
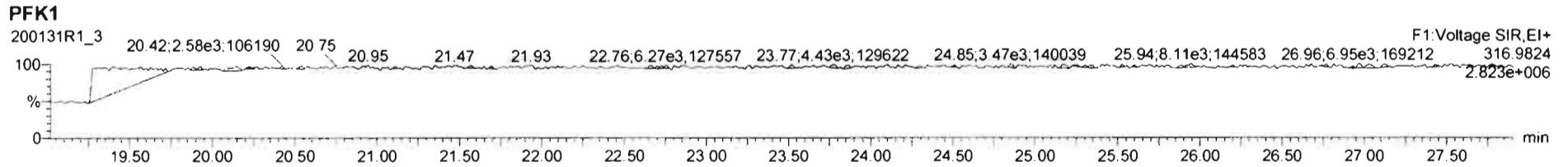
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1	1.227 E-05	25.70	0.799	NO	2.00204	1.42768	2.96	1.90	0.968
2	2.223 E-05	36.64	0.855	NO	1.20295	1.14155	10.00	1.63	0.975
3	3.223 E-05	33.94	1.228	NO	1.09124	5.68825	10.00	5.2	1.07
4	4.223 E-05	34.08	1.205	NO	1.12804	1.13068	10.00	8.3	0.921
5	5.223 E-05	34.36	1.184	NO	1.03075	1.03964	10.00	6.0	0.918
6	6.223 E-05	37.90	1.018	NO	7.44144	2.62743	10.00	5.8	0.932
7	7.223 E-05	40.90	0.879	NO	1.55695	1.41046	20.00	5.0	0.983
8	8.223 E-05	24.00	0.707	NO	3.25344	1.95946	2.000	4.0	0.807
9	9.223 E-05	29.30	1.552	NO	1.62485	1.02404	10.00	6.5	0.907
10	10.223 E-05	20.20	1.119	NO	1.62505	1.77076	10.00	6.5	0.952
11	11.223 E-05	22.10	1.130	NO	1.62645	1.14226	10.00	6.2	0.964
12	12.223 E-05	32.24	1.154	NO	1.14974	1.28585	10.00	5.6	0.847
13	13.223 E-05	32.82	1.142	NO	1.13245	1.16746	10.00	6.3	0.898
14	14.223 E-05	34.70	1.147	NO	6.65974	5.71441	10.00	6.0	0.860
15	15.223 E-05	36.46	0.900	NO	7.21244	6.02845	10.00	5.9	0.851
16	16.223 E-05	38.49	0.956	NO	5.91294	5.66443	10.00	6.7	0.900
17	17.223 E-05	41.08	0.868	NO	1.37245	1.61966	20.00	5.5	0.806

Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:06:20 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_3, Date: 31-Jan-2020, Time: 18:23:19, ID: ST200131R1_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

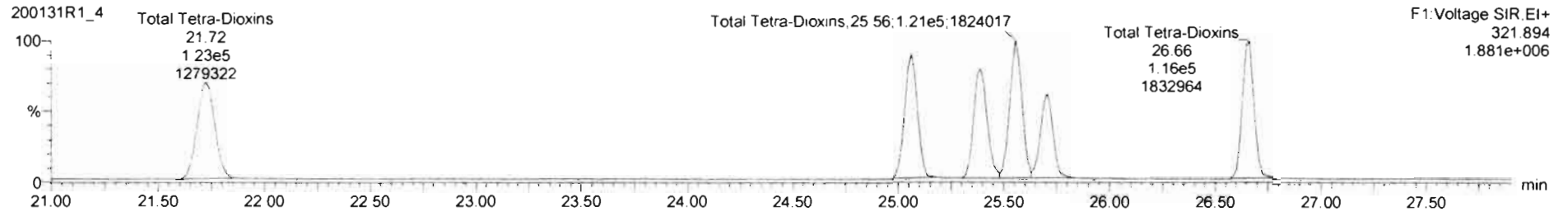
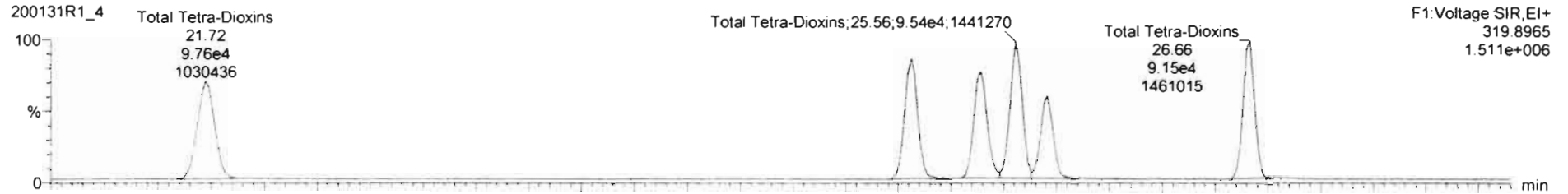


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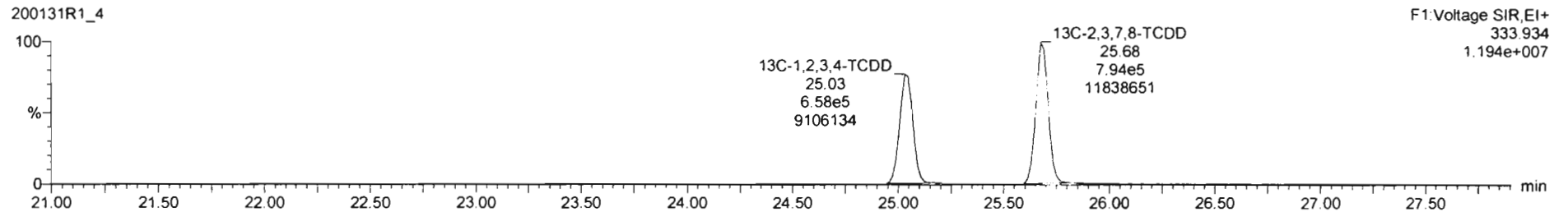
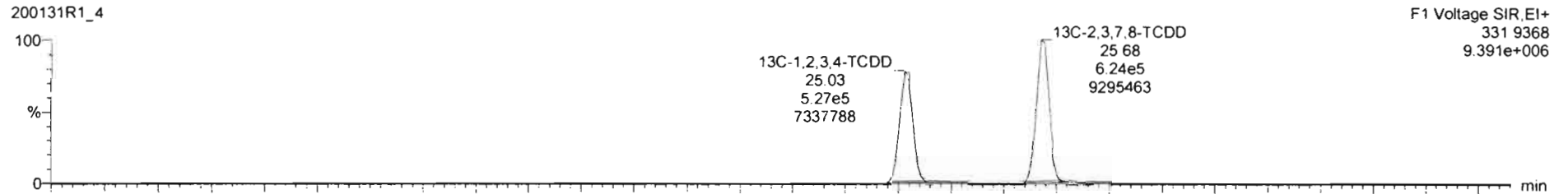
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Name: 200131R1_4, Date: 31-Jan-2020, Time: 19:10:18, ID: ST200131R1_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



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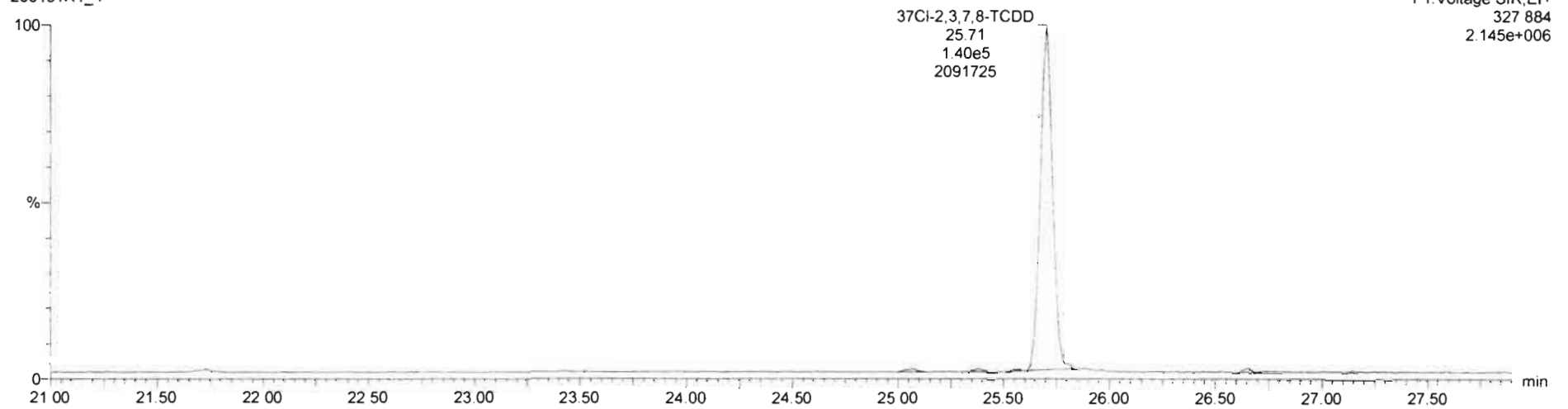
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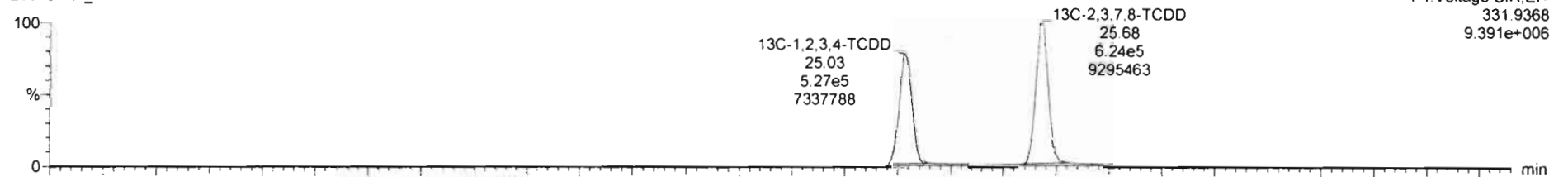
37Cl-2,3,7,8-TCDD

200131R1_4

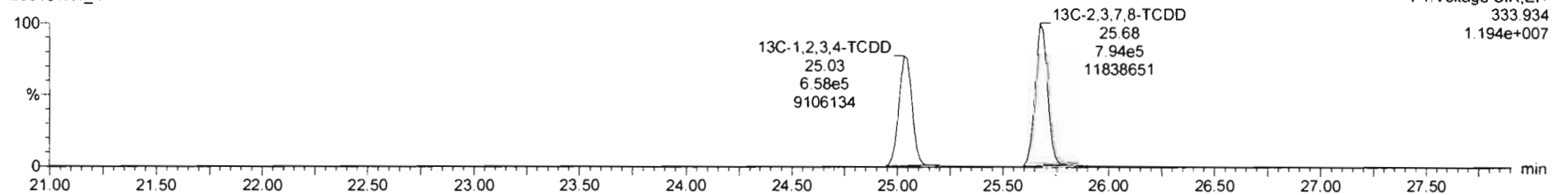


13C-1,2,3,4-TCDD

200131R1_4



200131R1_4

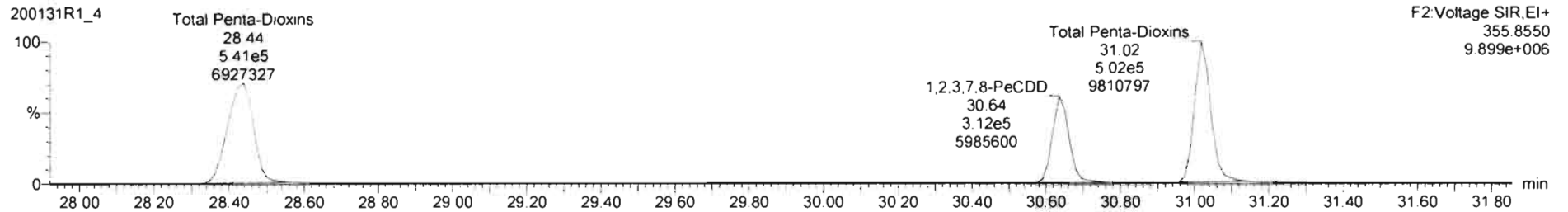
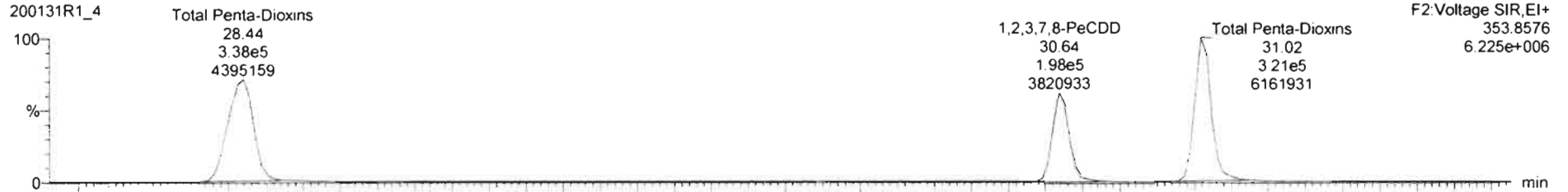


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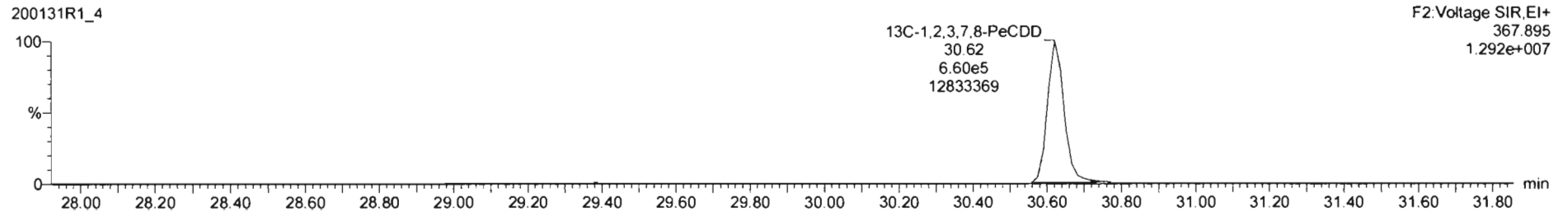
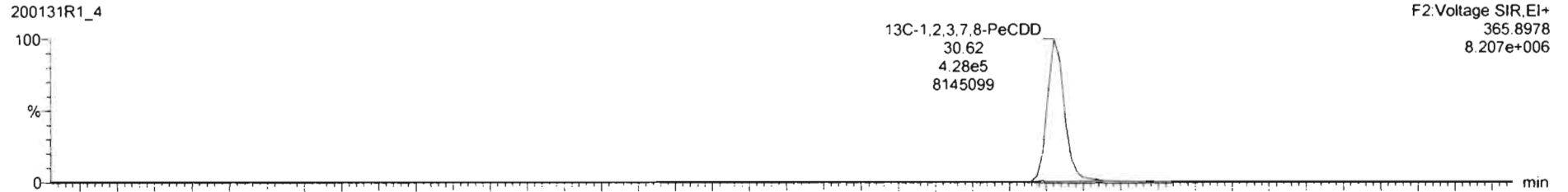
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1,2,3,7,8-PeCDD



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



Dataset: Untitled

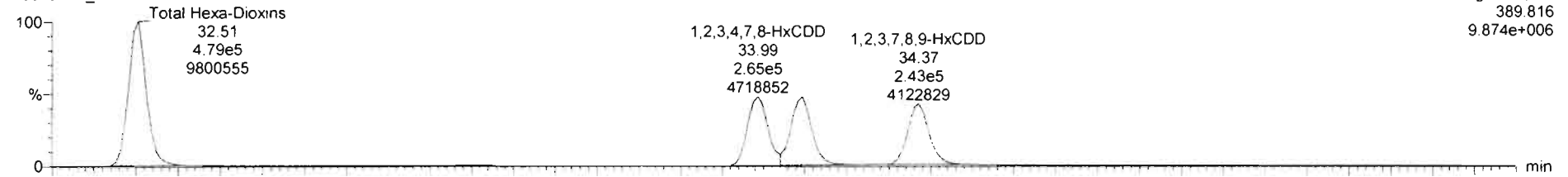
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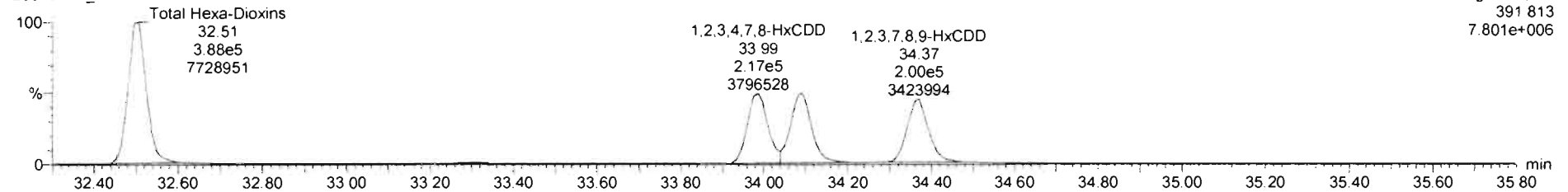
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1,2,3,4,7,8-HxCDD

200131R1_4

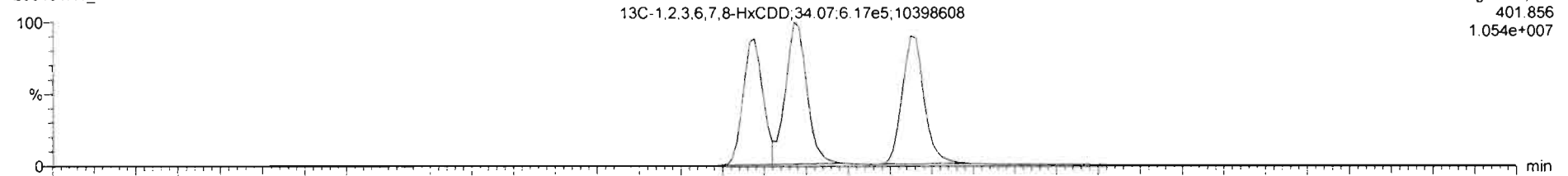


200131R1_4

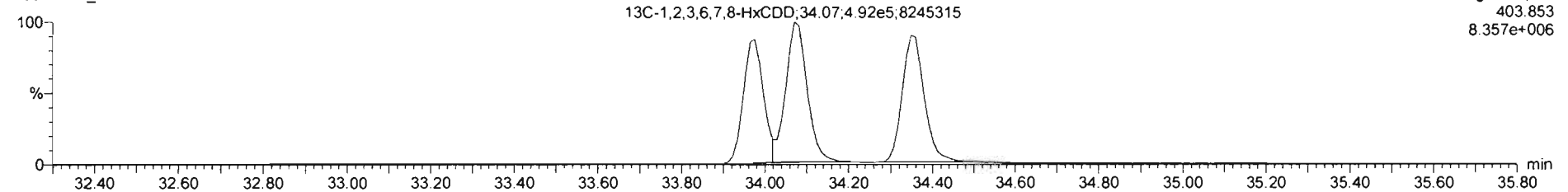


13C-1,2,3,4,7,8-HxCDD

200131R1_4



200131R1_4



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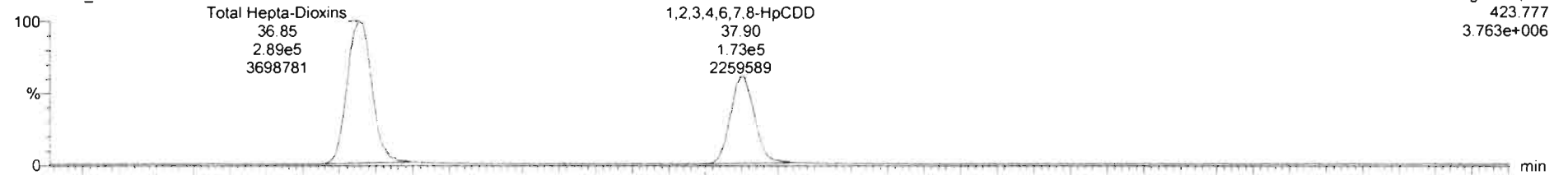
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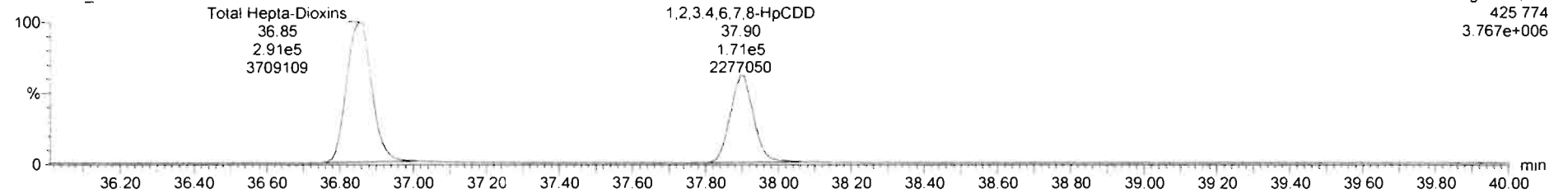
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1,2,3,4,6,7,8-HpCDD

200131R1_4

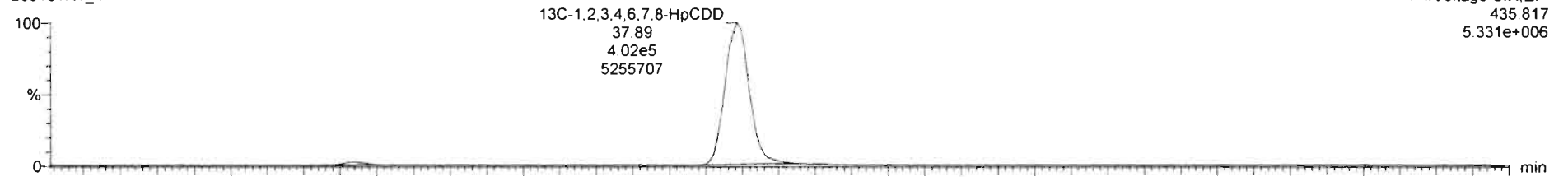


200131R1_4

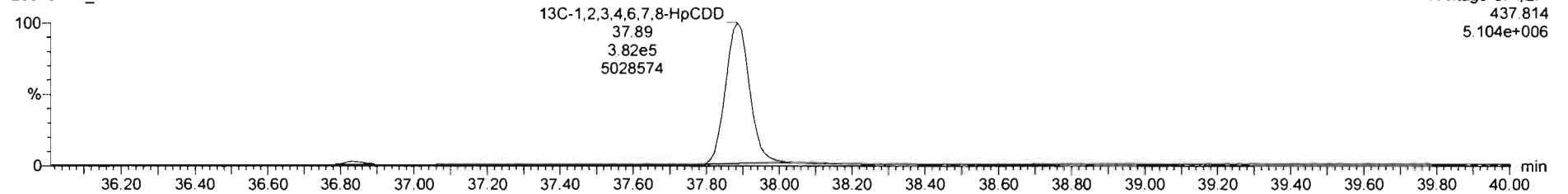


13C-1,2,3,4,6,7,8-HpCDD

200131R1_4



200131R1_4



Dataset: Untitled

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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

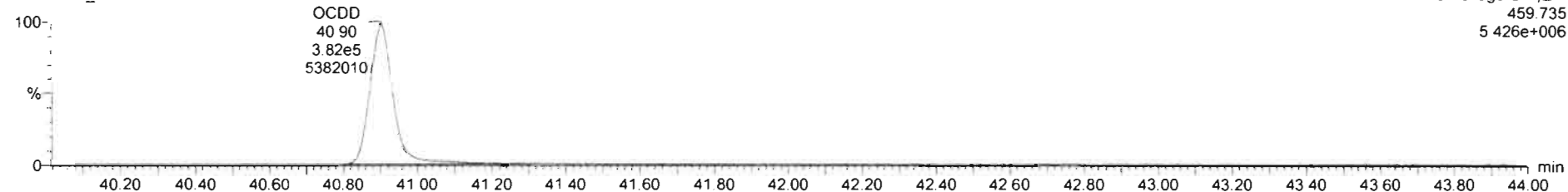
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OCDD

200131R1_4

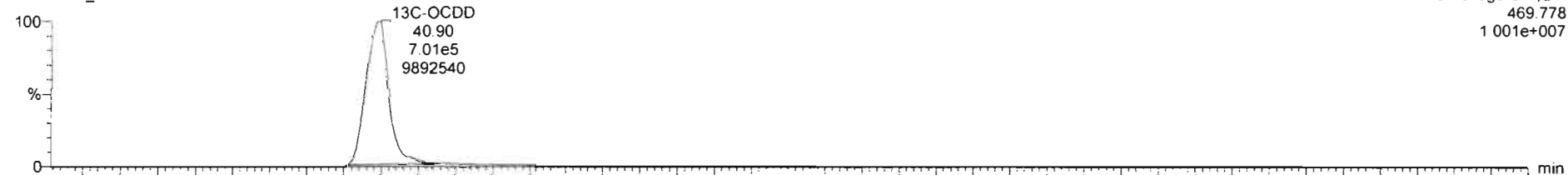


200131R1_4

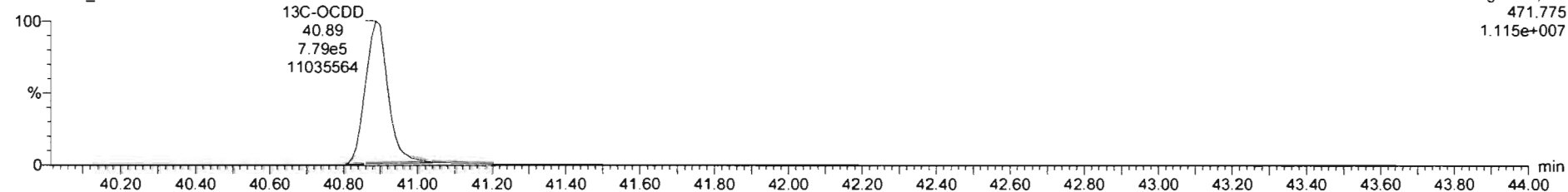


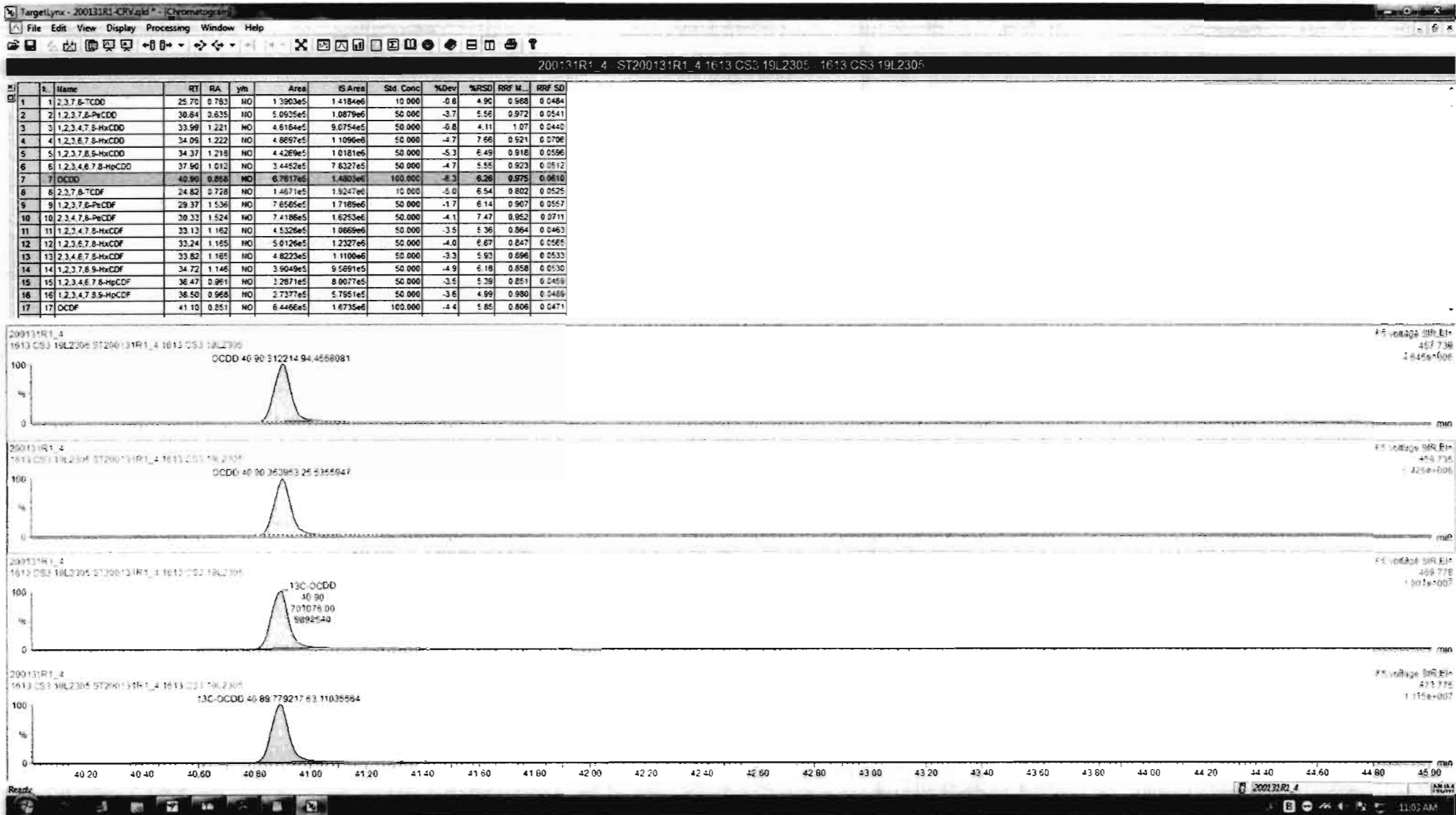
13C-OCDD

200131R1_4



200131R1_4





Dataset: Untitled

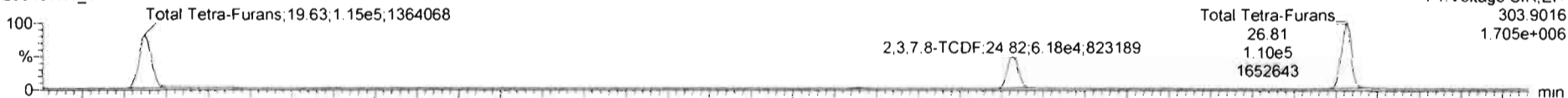
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

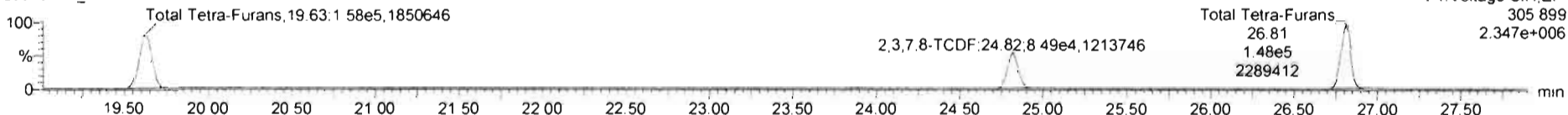
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2,3,7,8-TCDF

200131R1_4

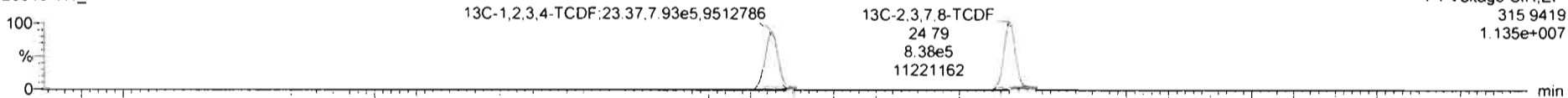


200131R1_4

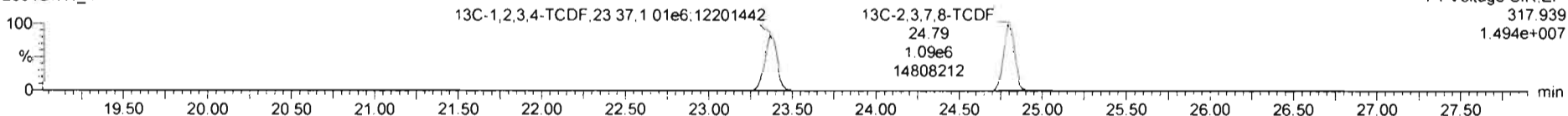


13C-2,3,7,8-TCDF

200131R1_4

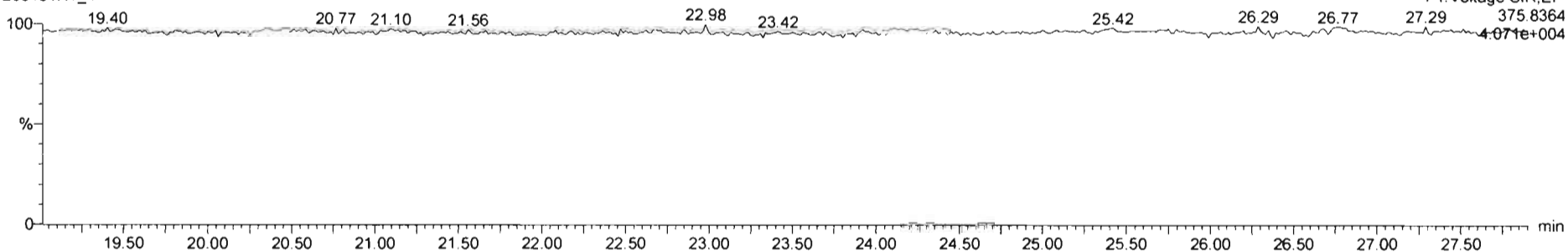


200131R1_4



DPE1

200131R1_4



Dataset: Untitled

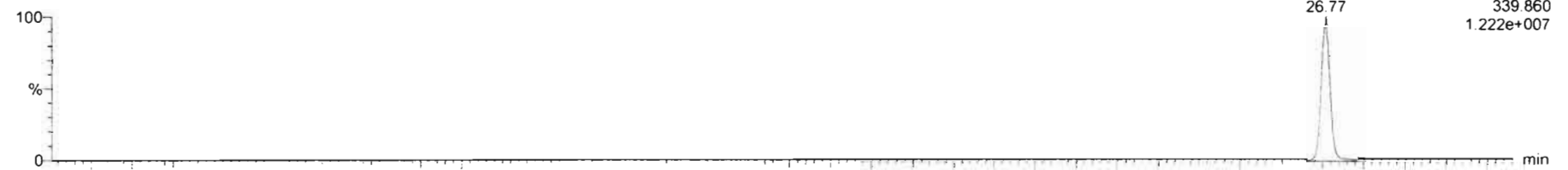
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

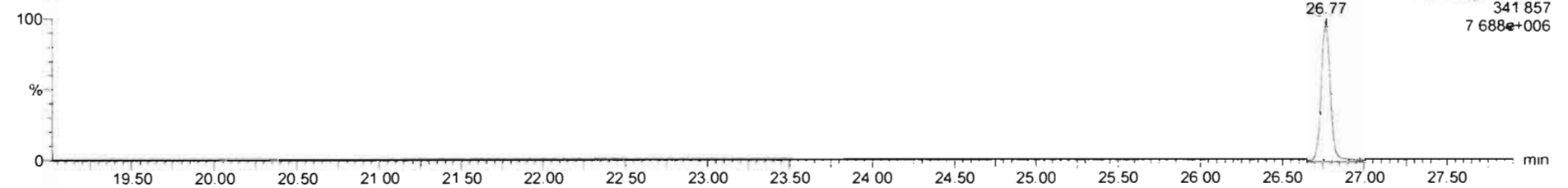
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1st Func. Penta-Furans

200131R1_4

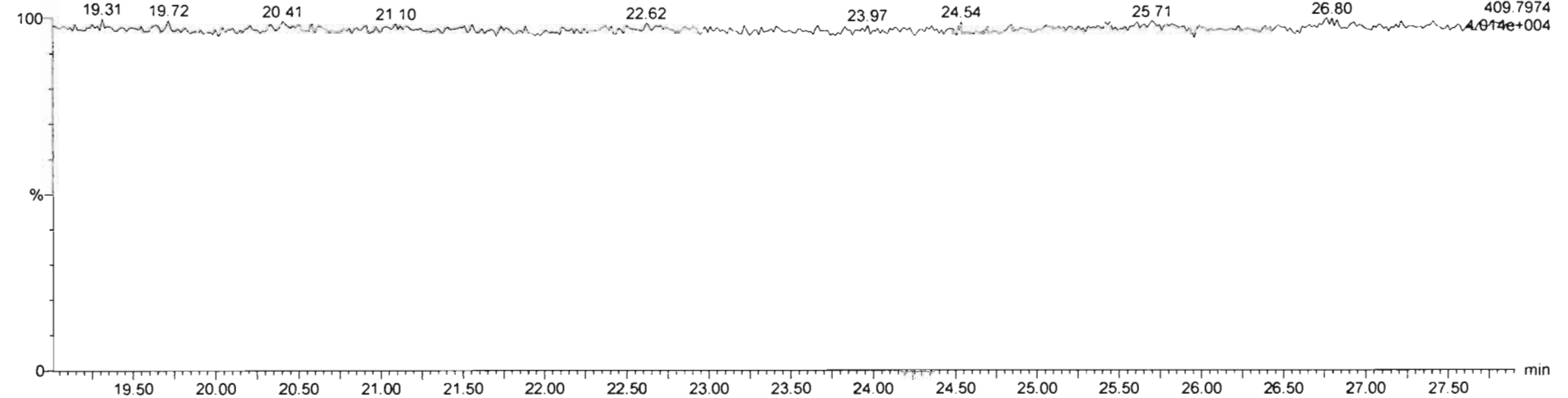


200131R1_4



DPE6

200131R1_4

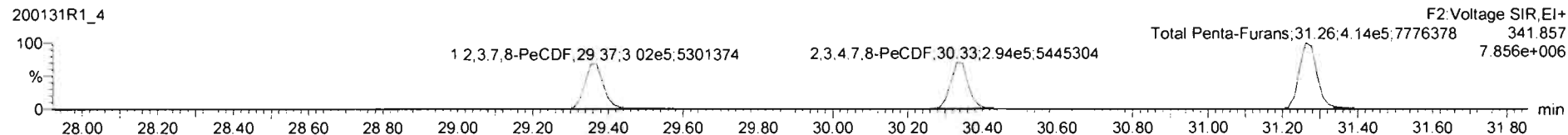
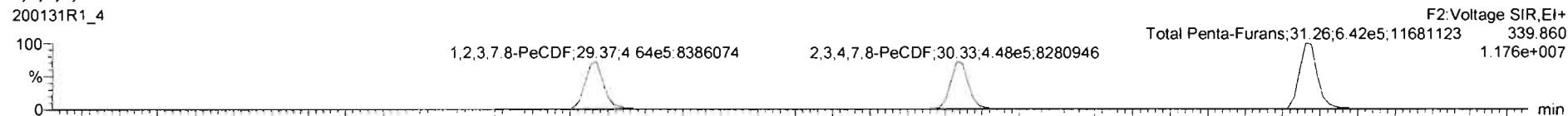


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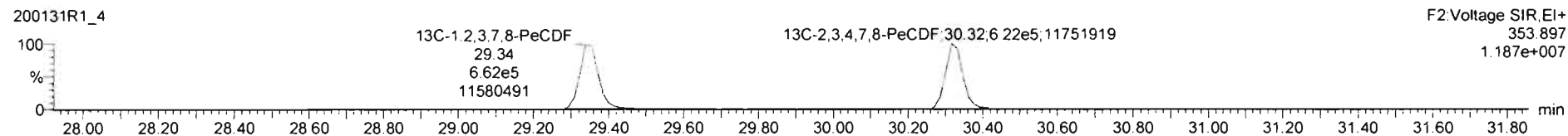
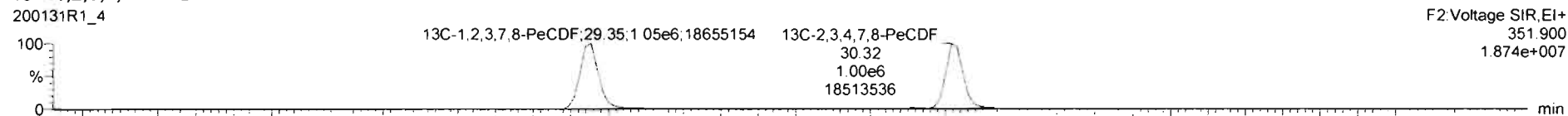
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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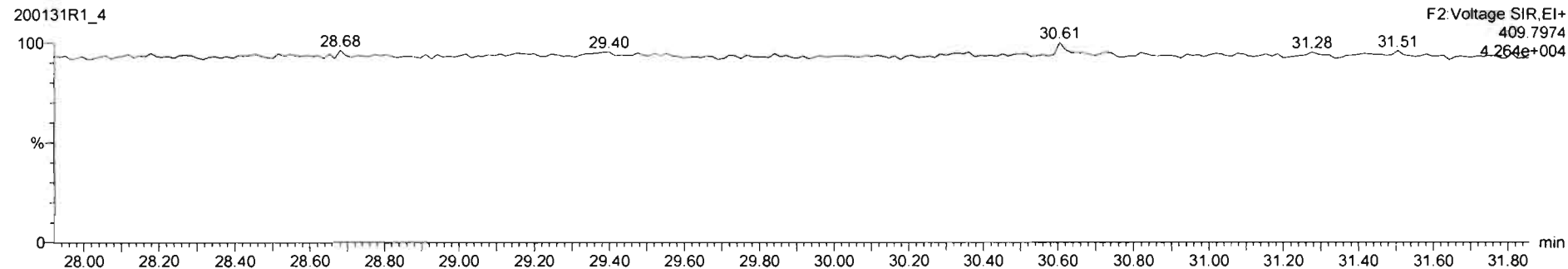
1,2,3,7,8-PeCDF



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



DPE2



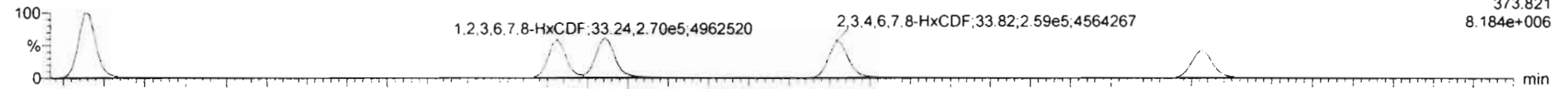
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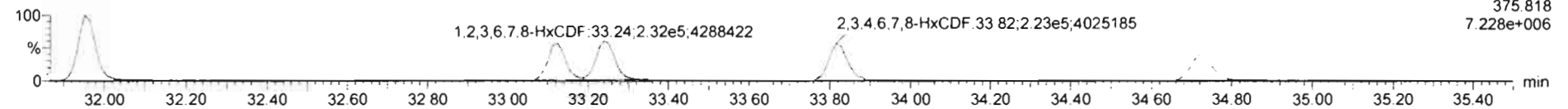
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1,2,3,4,7,8-HxCDF

200131R1_4

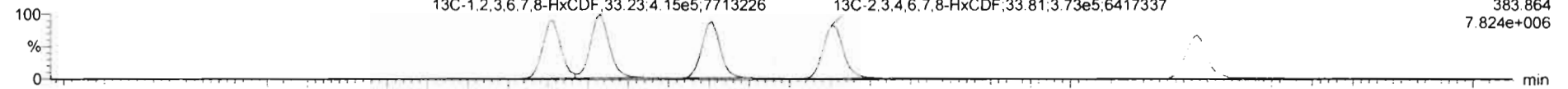


200131R1_4

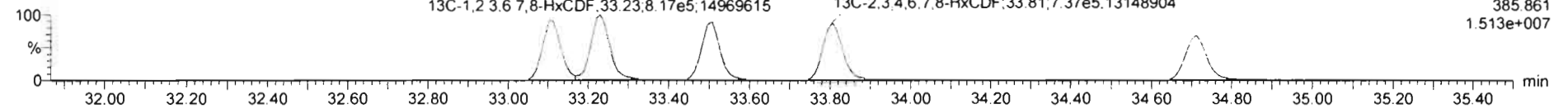


13C-1,2,3,4,7,8-HxCDF

200131R1_4

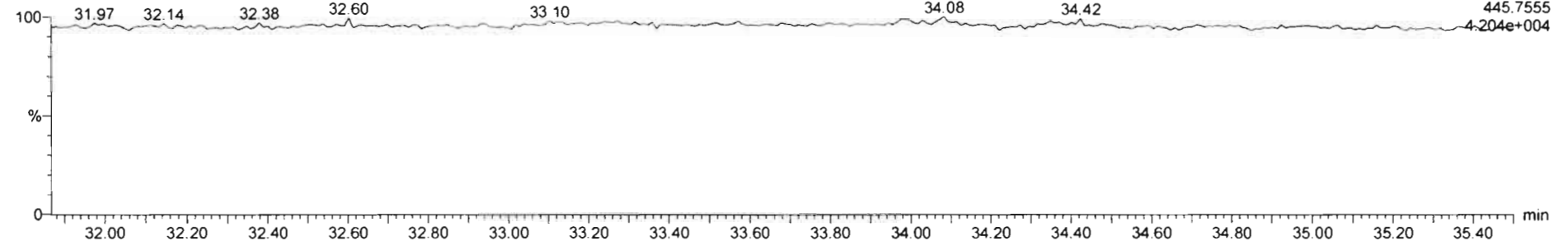


200131R1_4



DPE3

200131R1_4

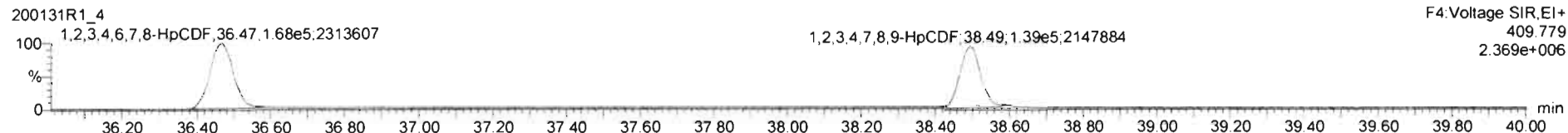
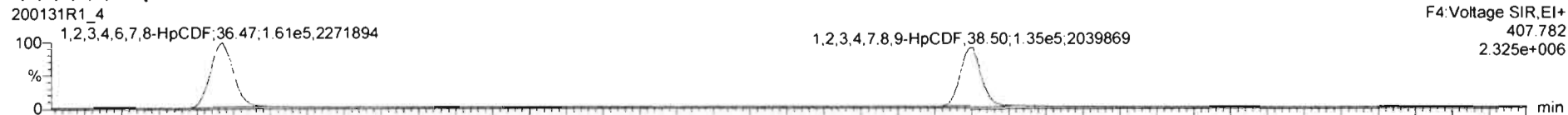


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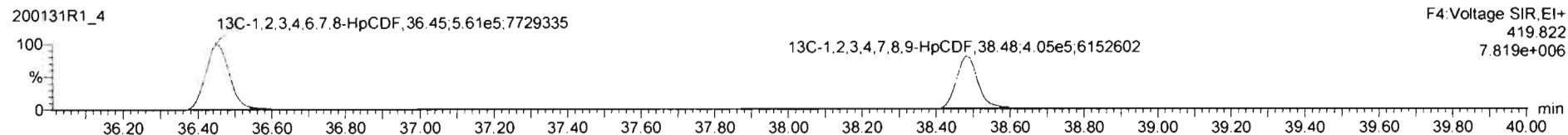
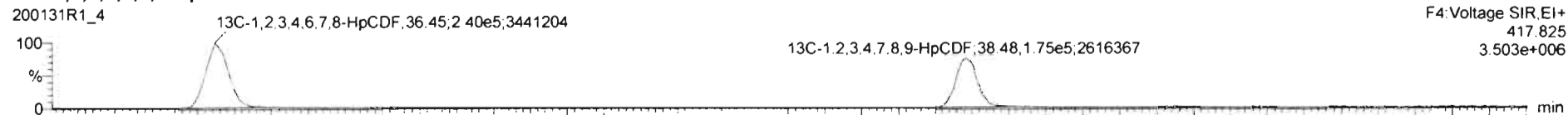
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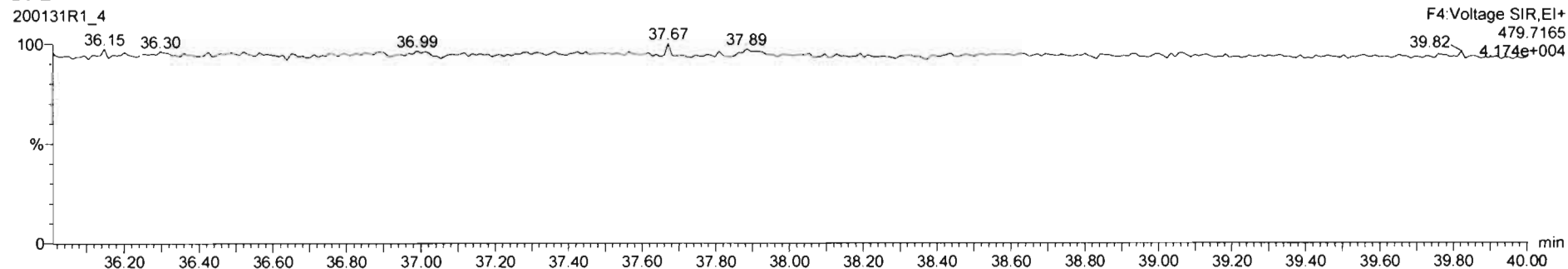
1,2,3,4,6,7,8-HpCDF



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



DPE4

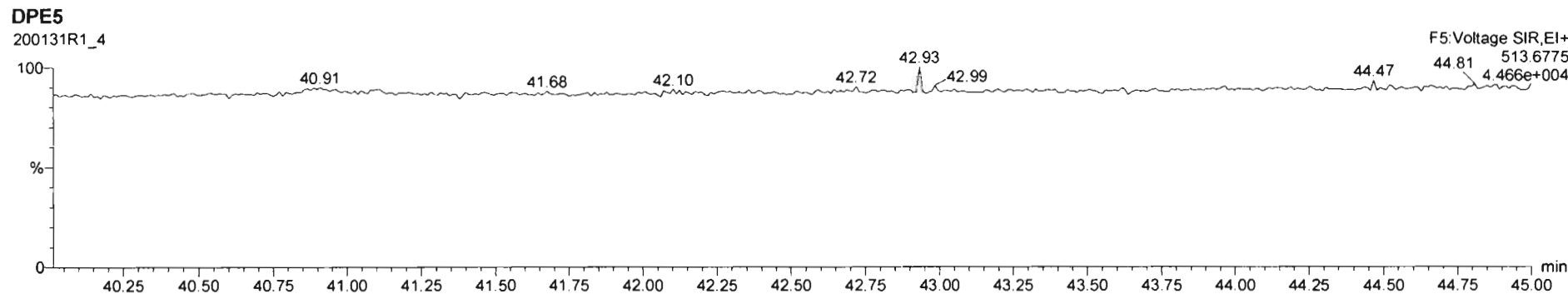
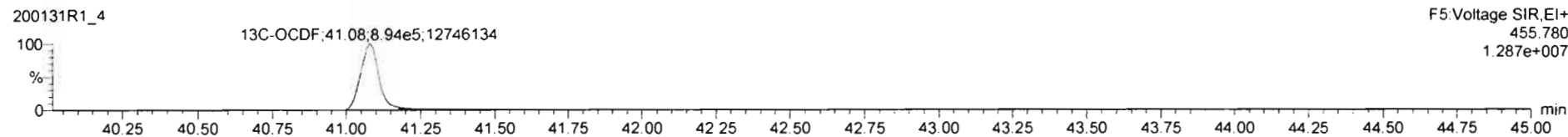
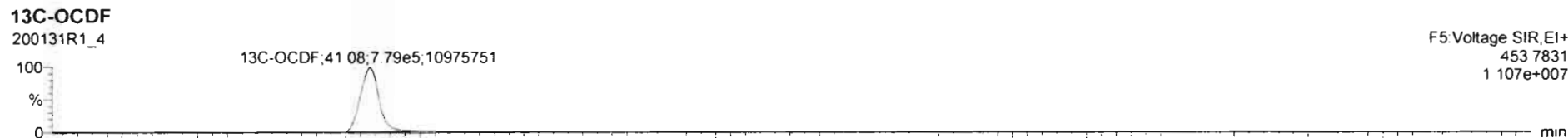
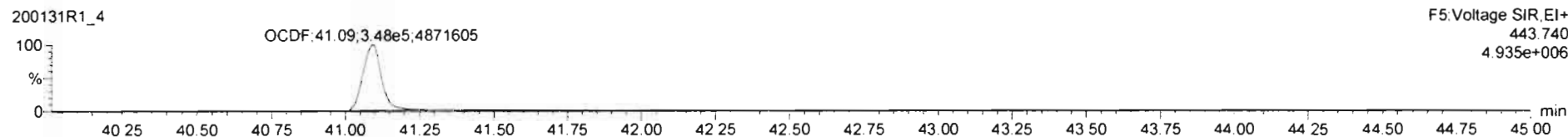
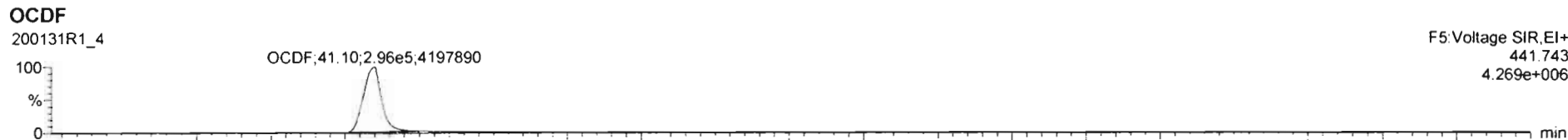


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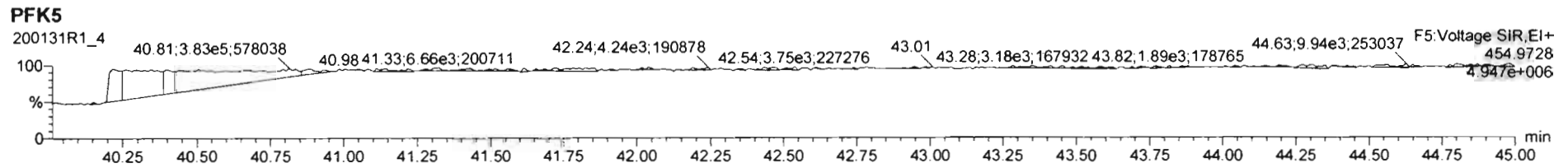
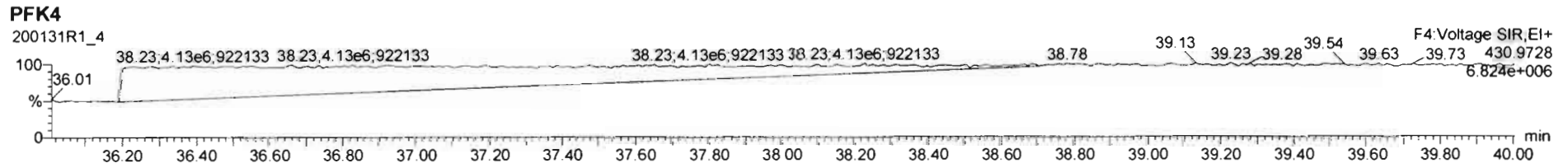
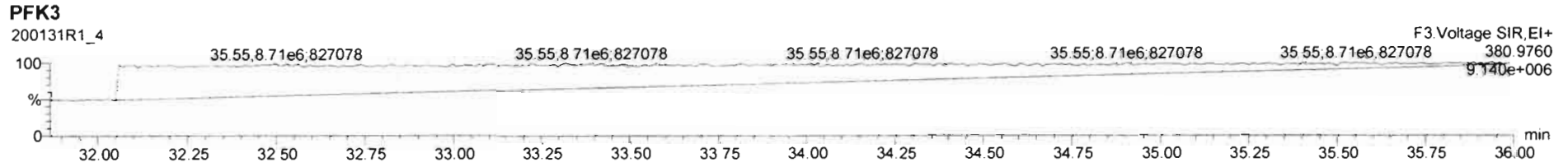
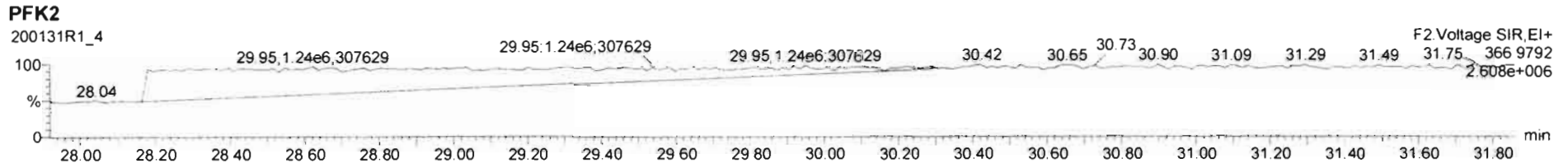
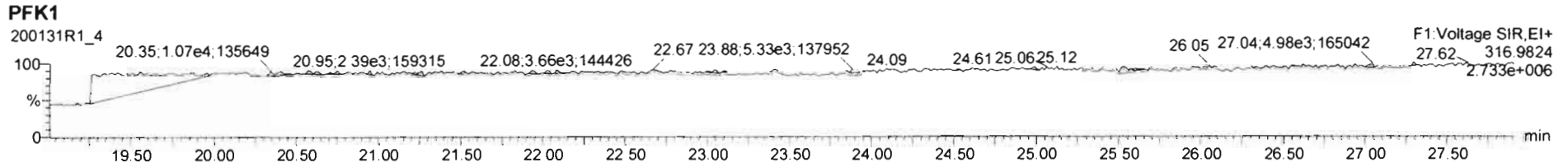


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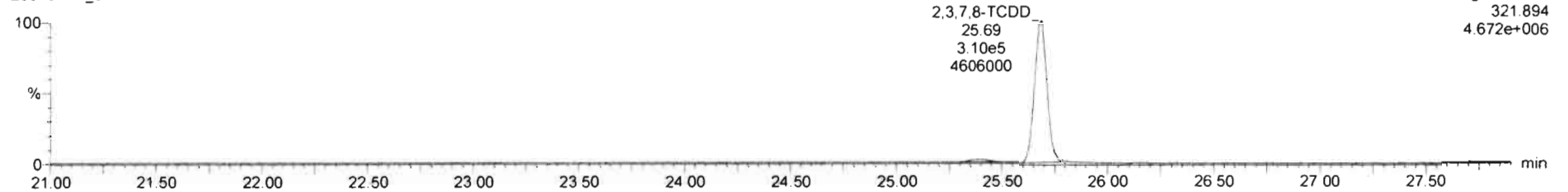
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2,3,7,8-TCDD

200131R1_5

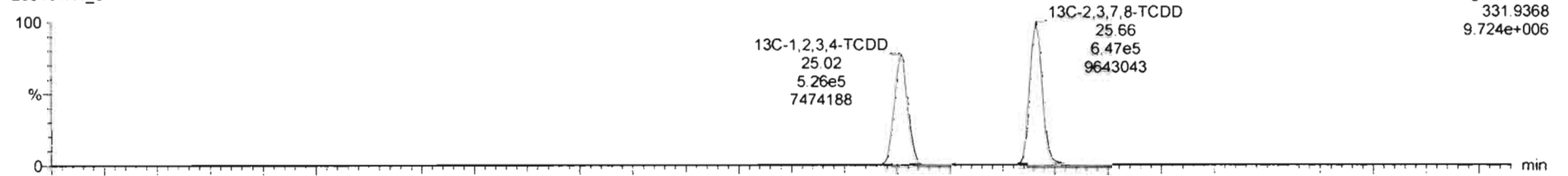


200131R1_5

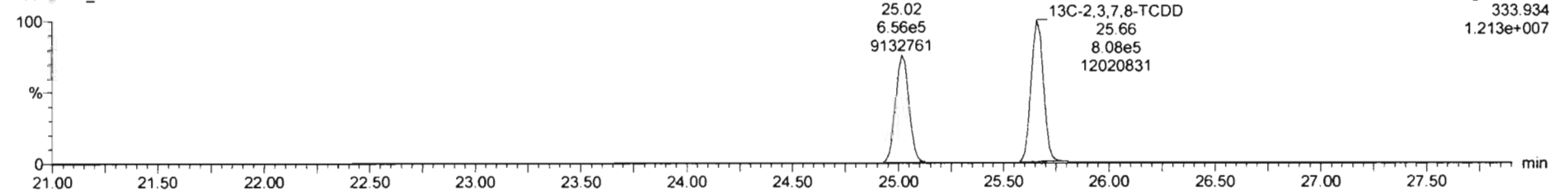


13C-2,3,7,8-TCDD

200131R1_5



200131R1_5



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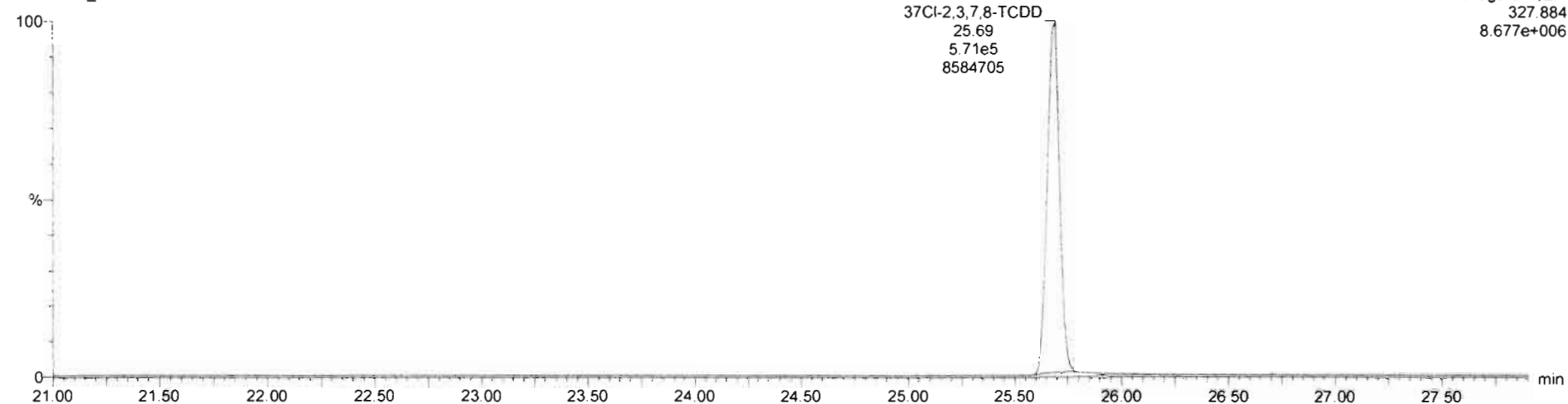
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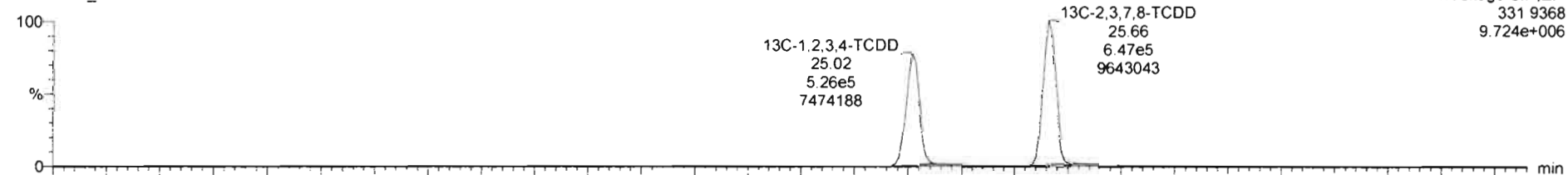
37Cl-2,3,7,8-TCDD

200131R1_5

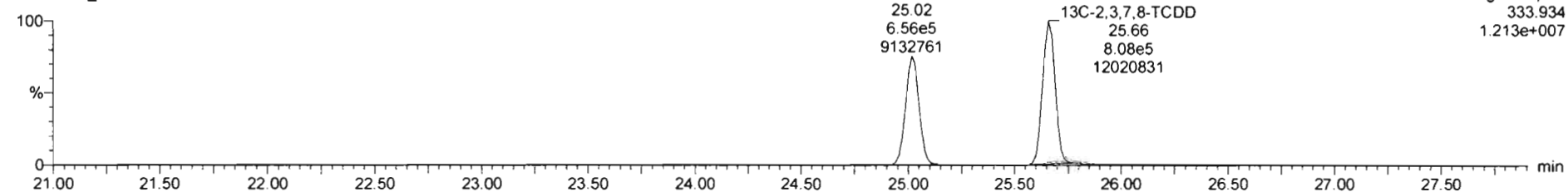


13C-1,2,3,4-TCDD

200131R1_5



200131R1_5



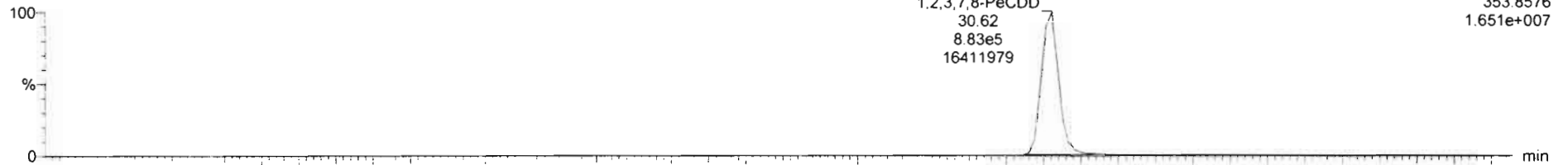
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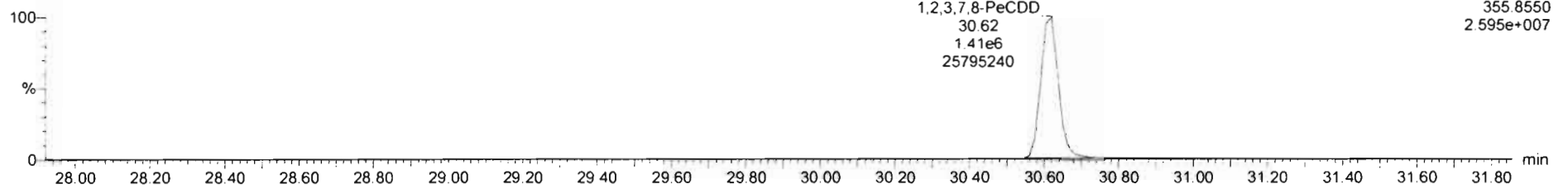
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1,2,3,7,8-PeCDD

200131R1_5

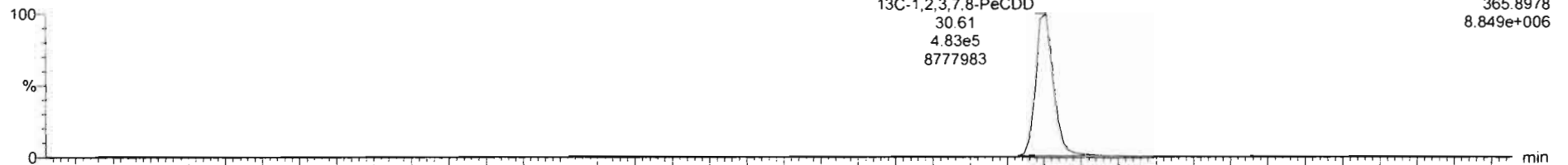


200131R1_5

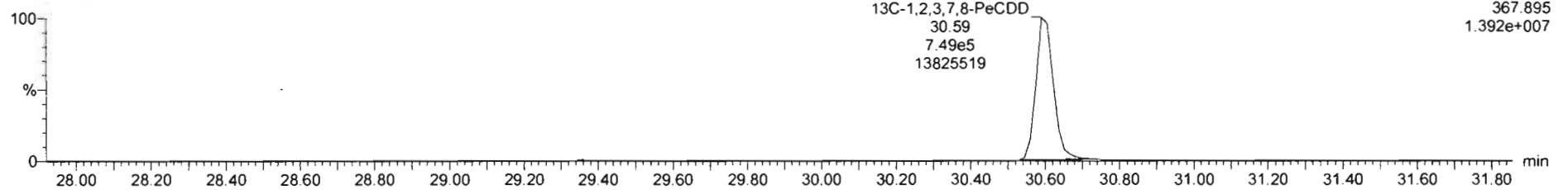


13C-1,2,3,7,8-PeCDD

200131R1_5



200131R1_5



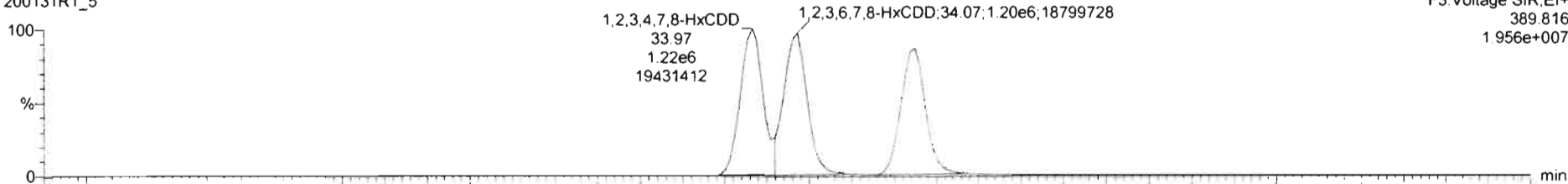
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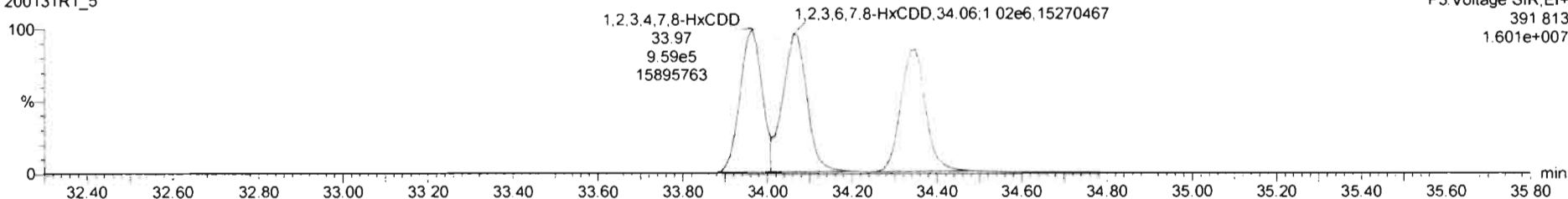
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1,2,3,4,7,8-HxCDD

200131R1_5

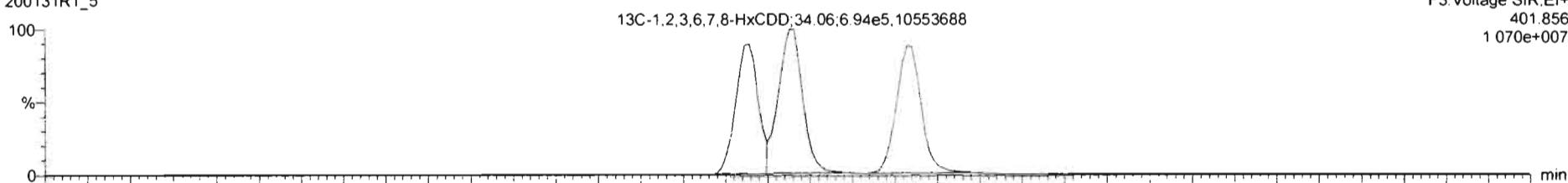


200131R1_5

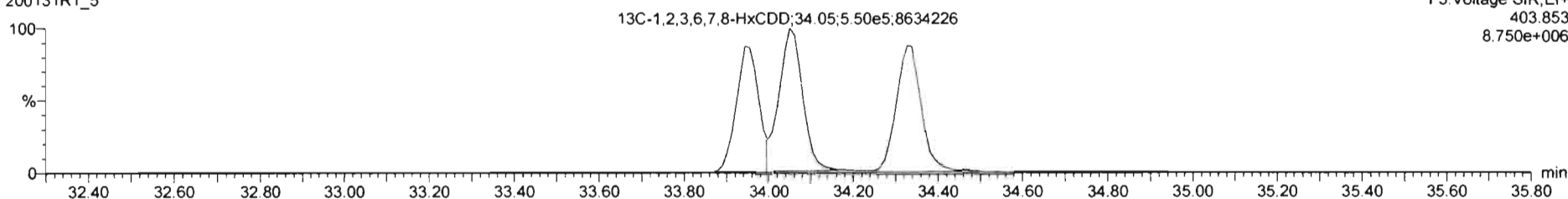


13C-1,2,3,4,7,8-HxCDD

200131R1_5



200131R1_5



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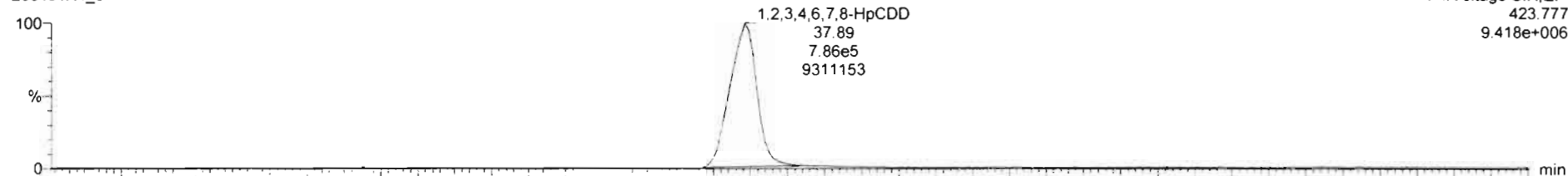
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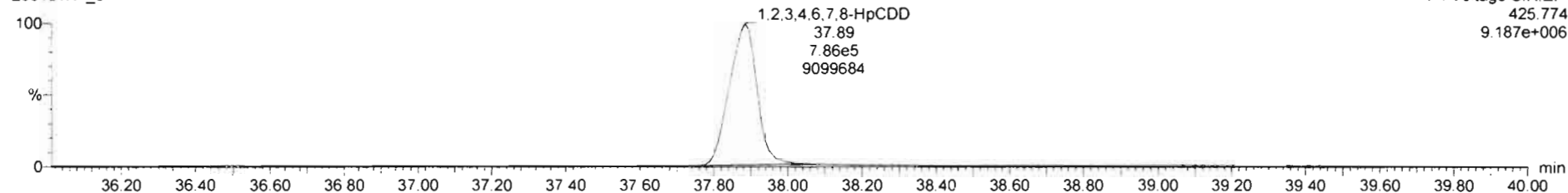
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1,2,3,4,6,7,8-HpCDD

200131R1_5

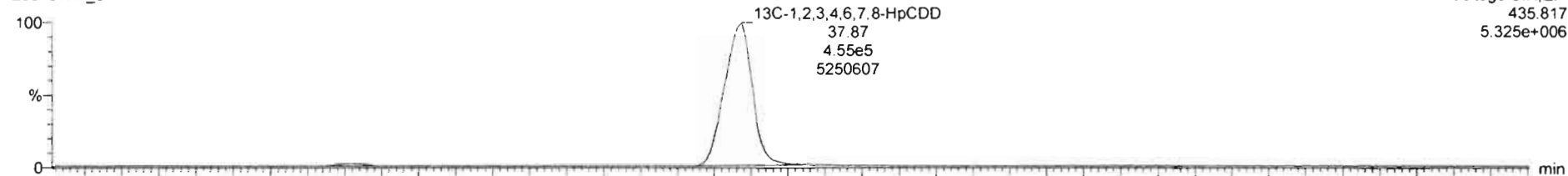


200131R1_5

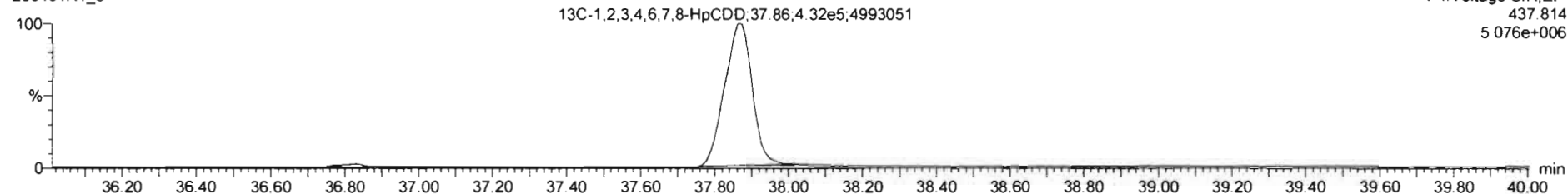


13C-1,2,3,4,6,7,8-HpCDD

200131R1_5



200131R1_5



Dataset: Untitled

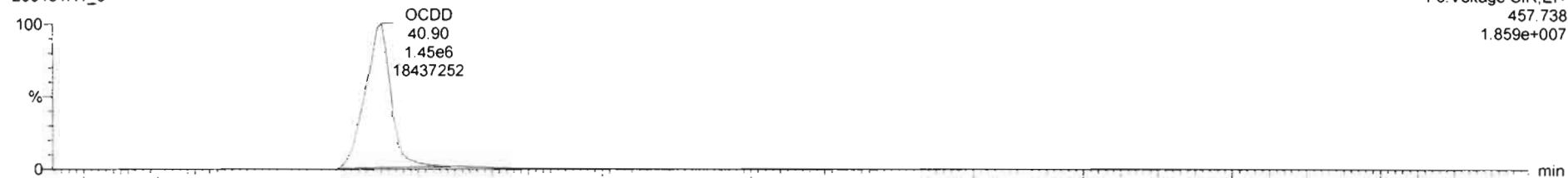
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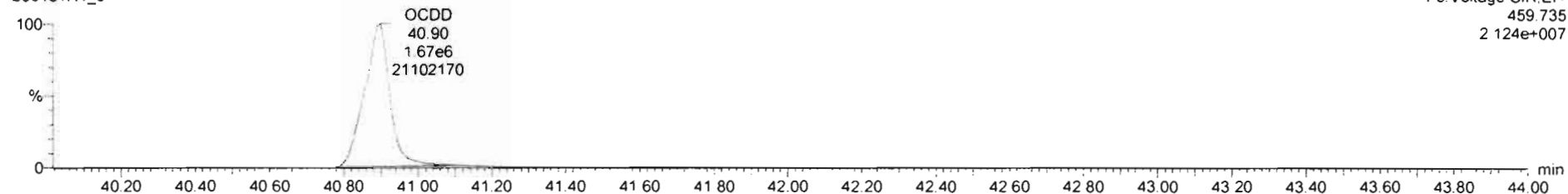
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OCDD

200131R1_5

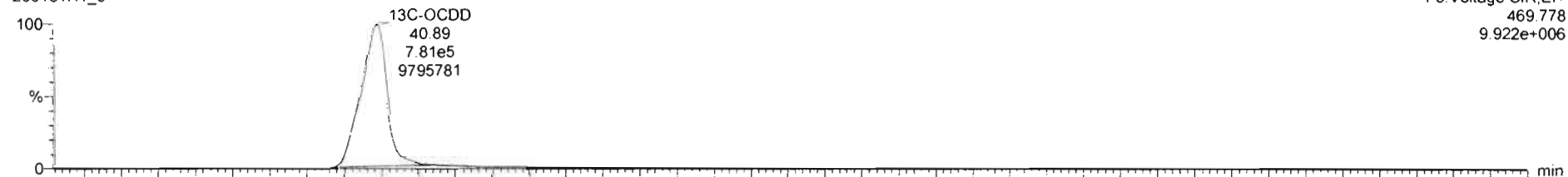


200131R1_5

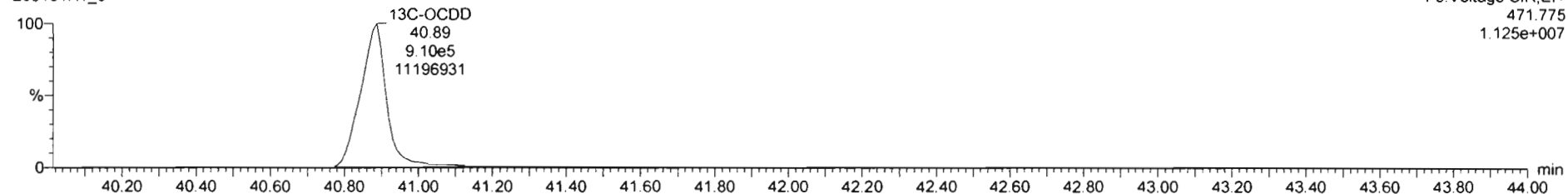


13C-OCDD

200131R1_5



200131R1_5



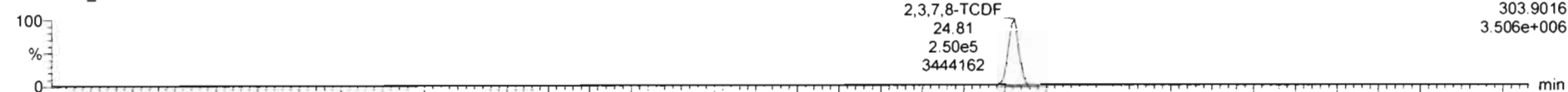
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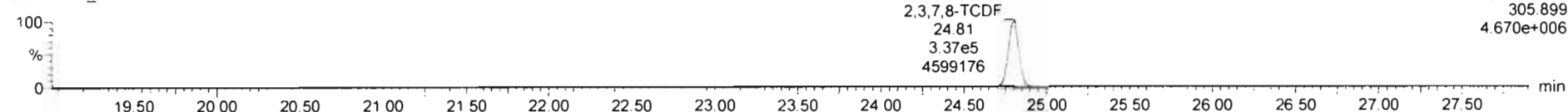
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2,3,7,8-TCDF

200131R1_5

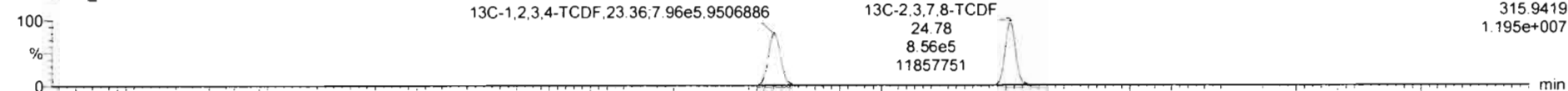


200131R1_5

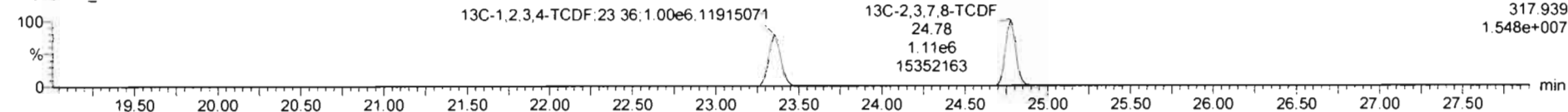


13C-2,3,7,8-TCDF

200131R1_5

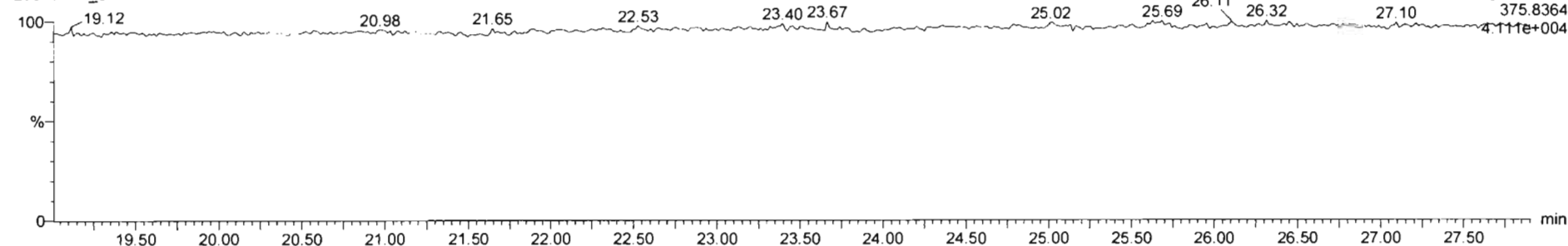


200131R1_5



DPE1

200131R1_5

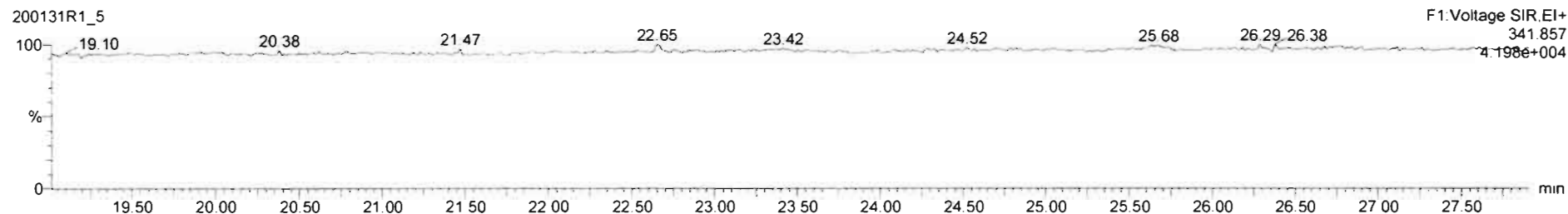
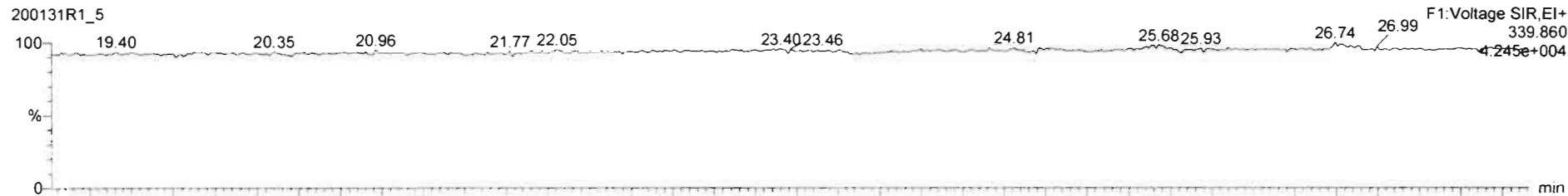


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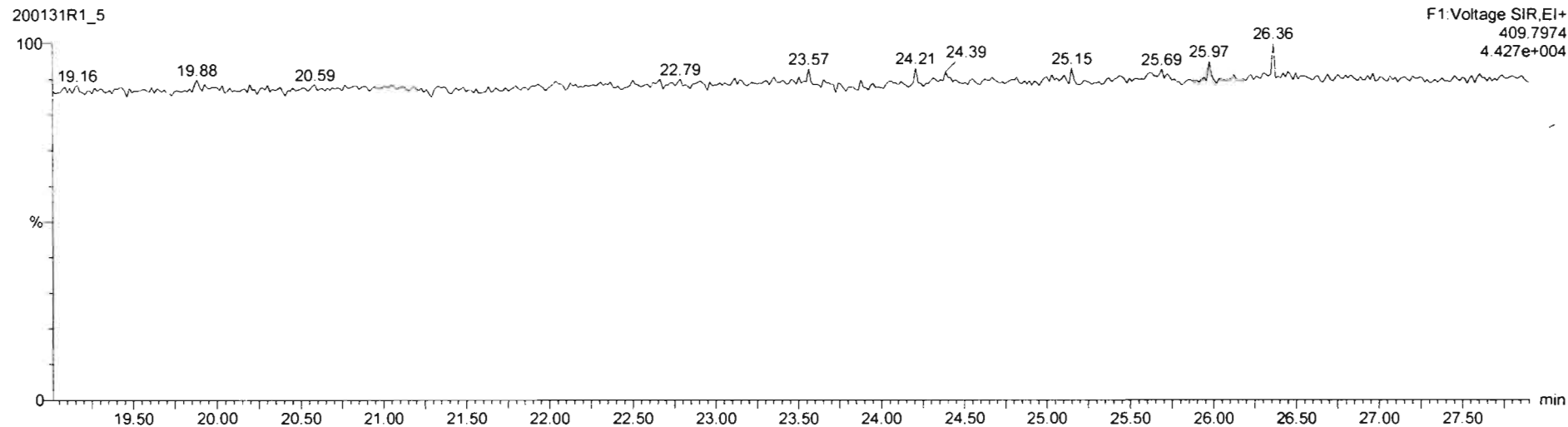
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1st Func. Penta-Furans



DPE6



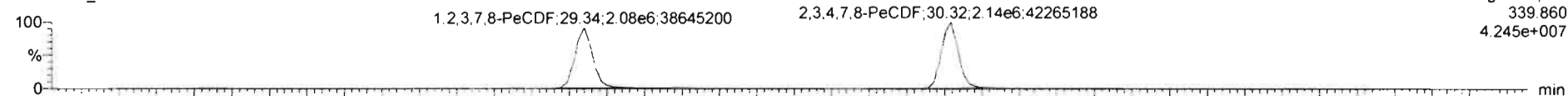
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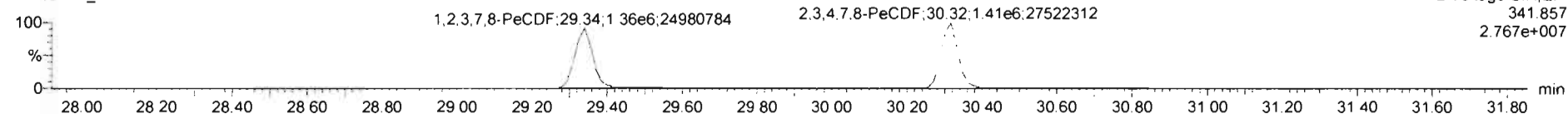
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1,2,3,7,8-PeCDF

200131R1_5

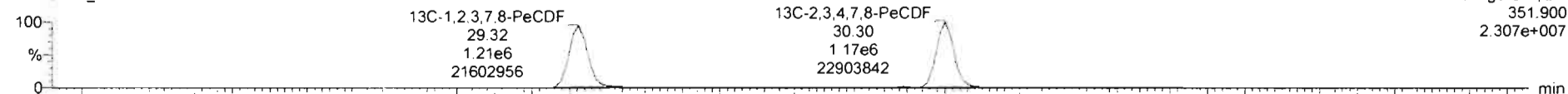


200131R1_5

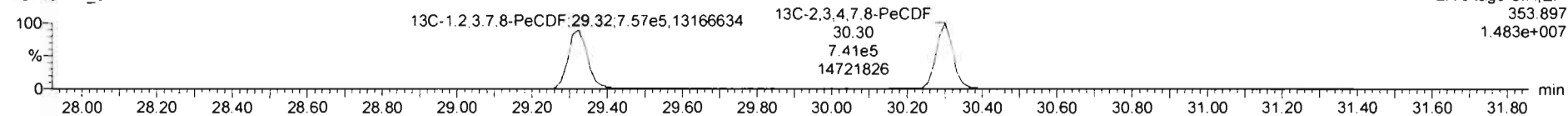


13C-1,2,3,7,8-PeCDF

200131R1_5

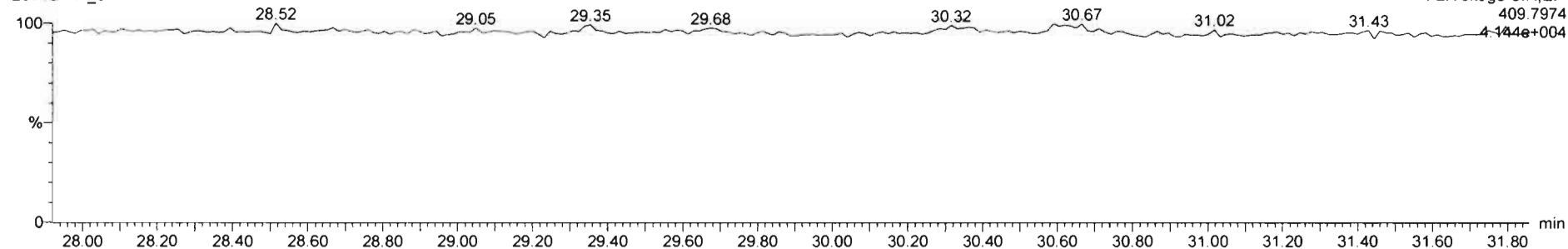


200131R1_5



DPE2

200131R1_5



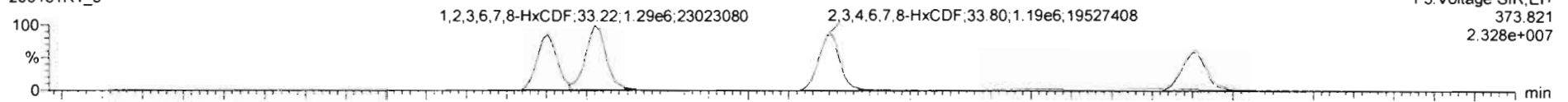
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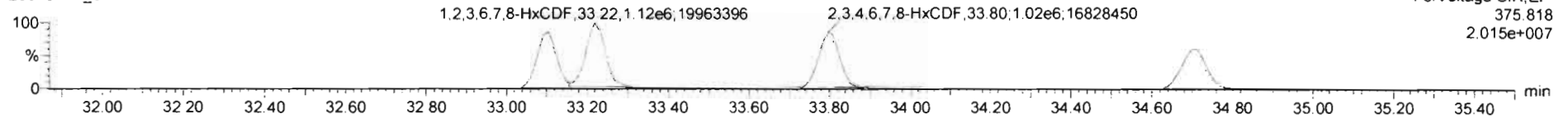
1,2,3,4,7,8-HxCDF

200131R1_5



F3: Voltage SIR, EI+
373.821
2.328e+007

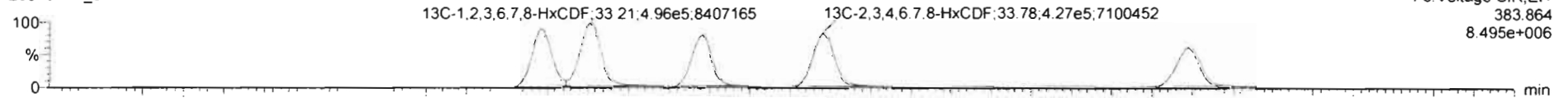
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F3: Voltage SIR, EI+
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2.015e+007

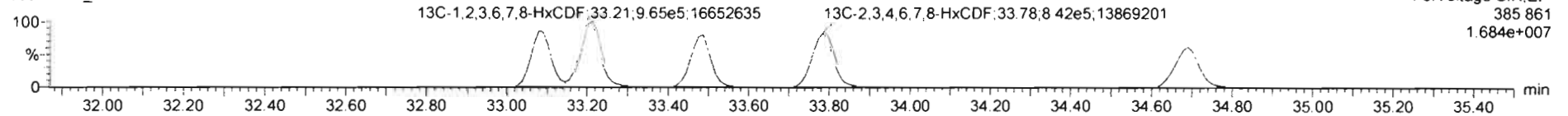
13C-1,2,3,4,7,8-HxCDF

200131R1_5



F3: Voltage SIR, EI+
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8.495e+006

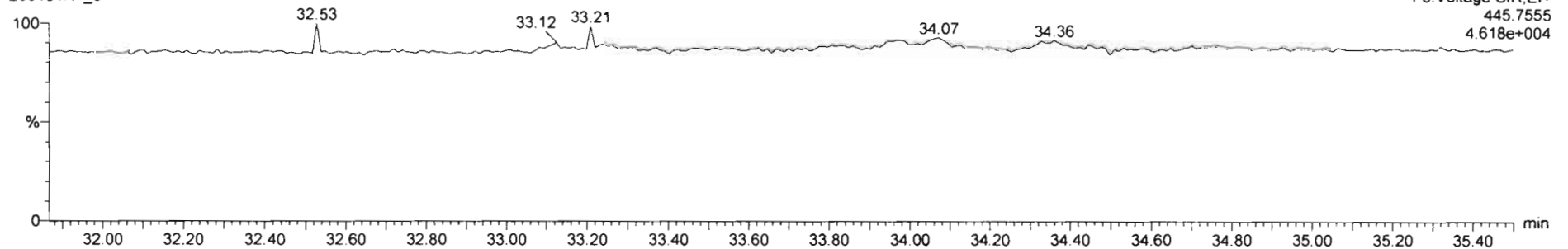
200131R1_5



F3: Voltage SIR, EI+
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1.684e+007

DPE3

200131R1_5



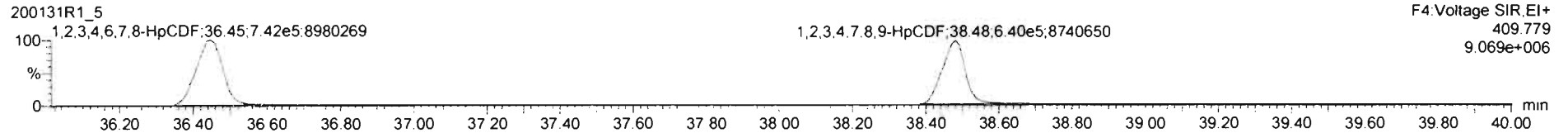
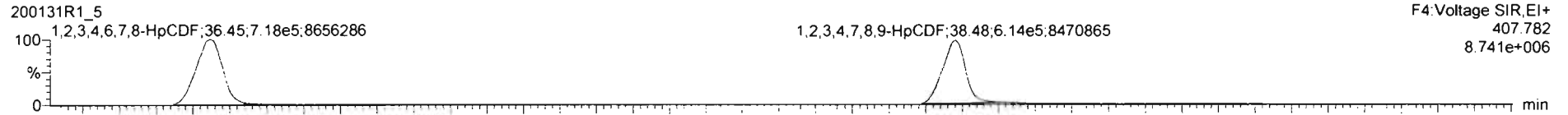
F3: Voltage SIR, EI+
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Dataset: Untitled

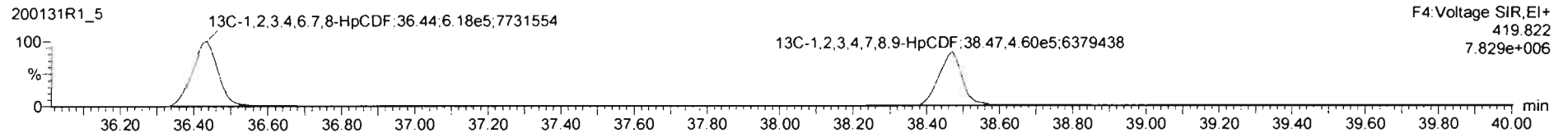
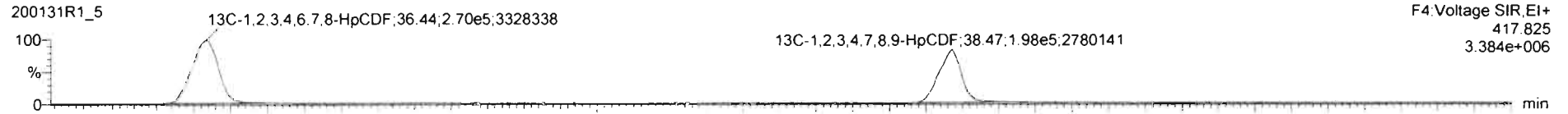
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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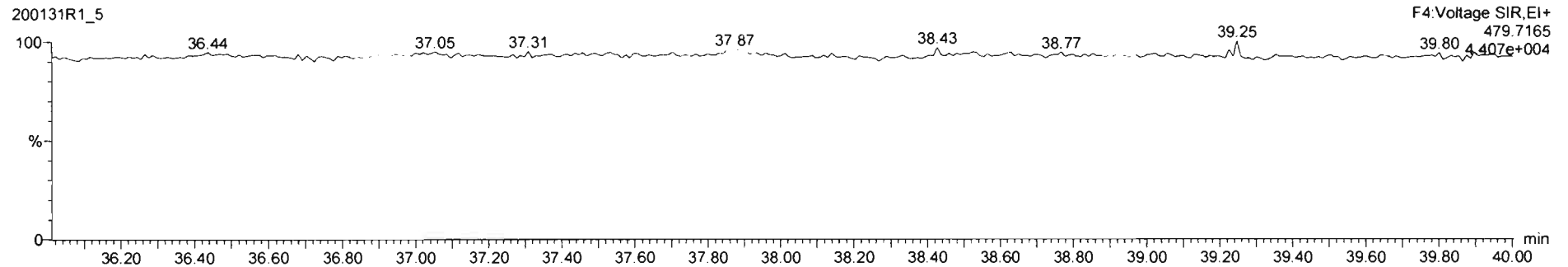
1,2,3,4,6,7,8-HpCDF



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



DPE4

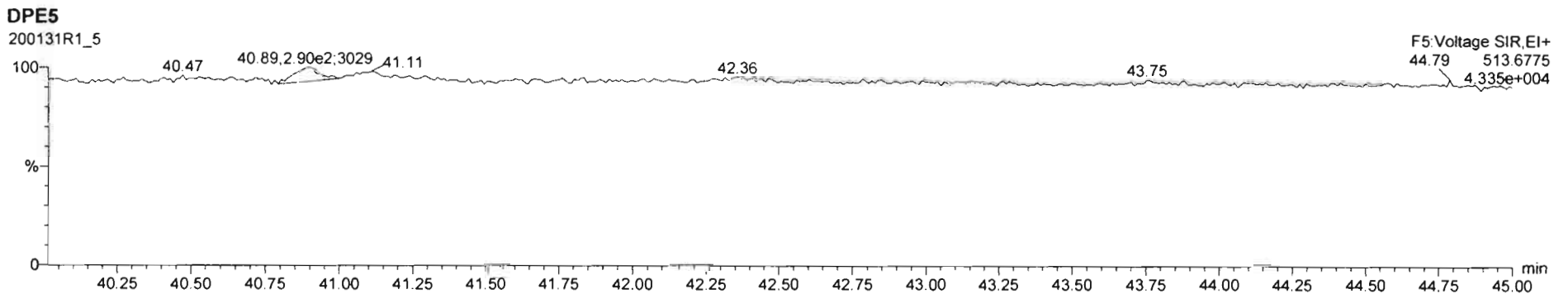
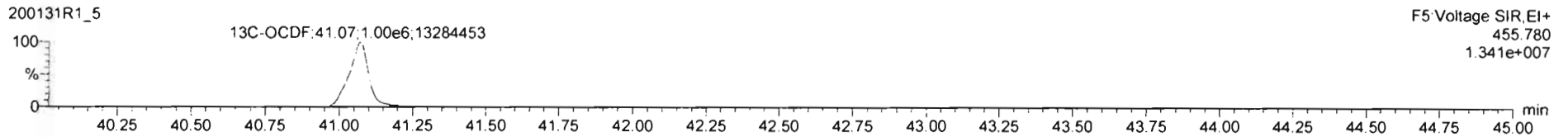
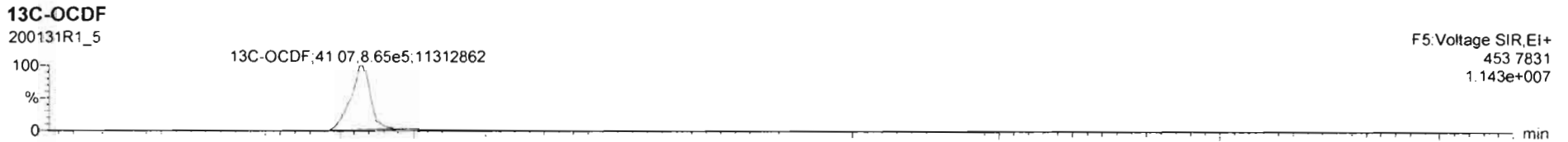
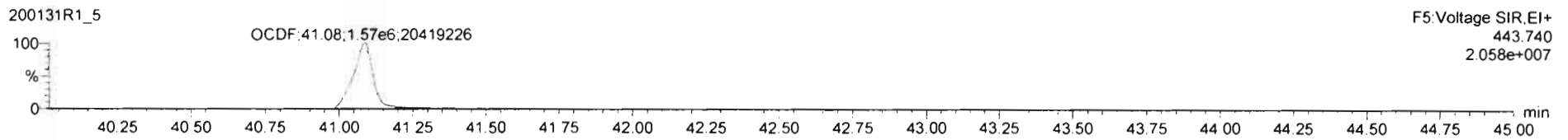
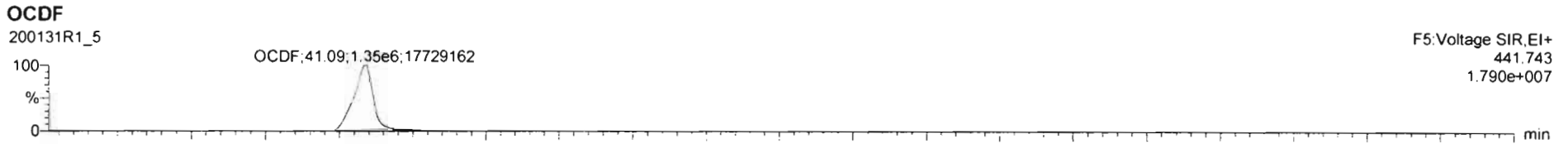


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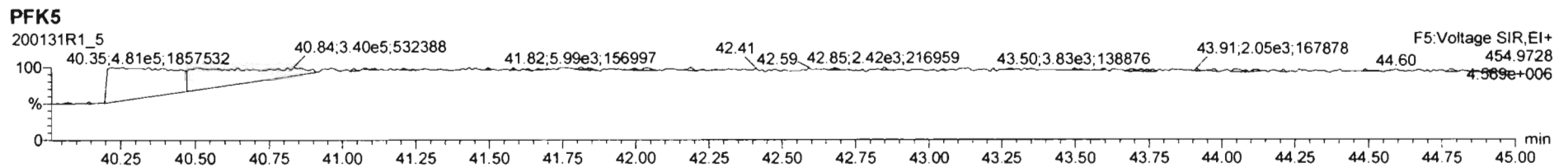
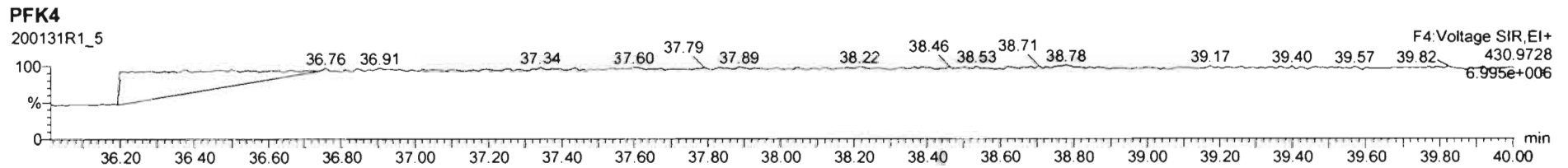
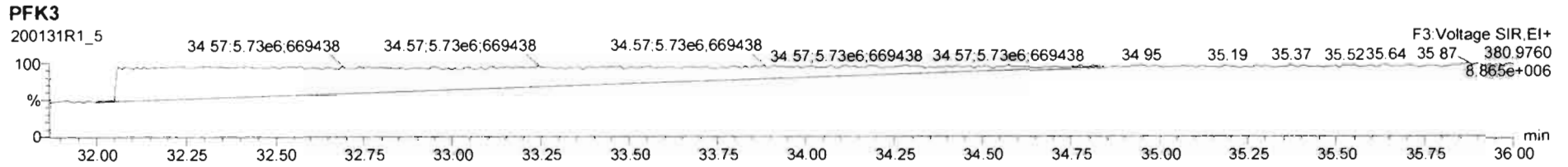
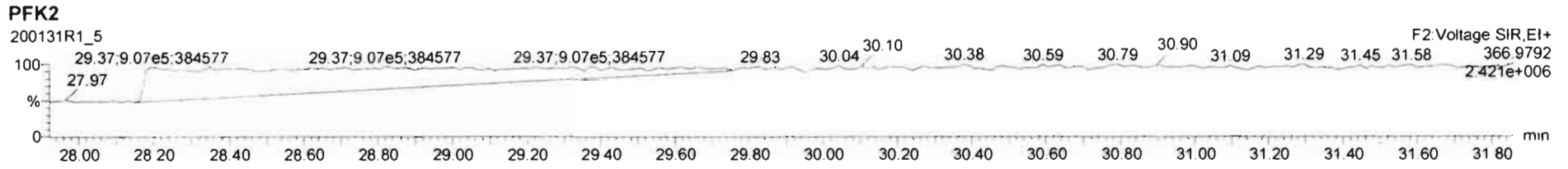
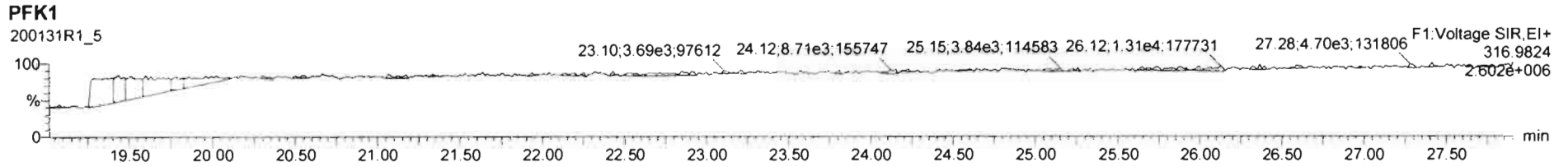
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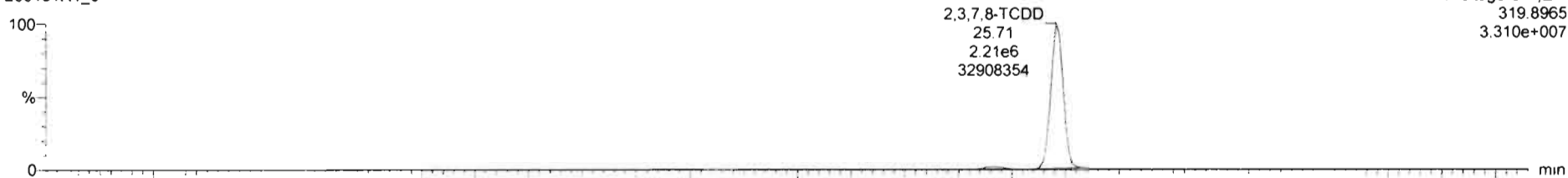
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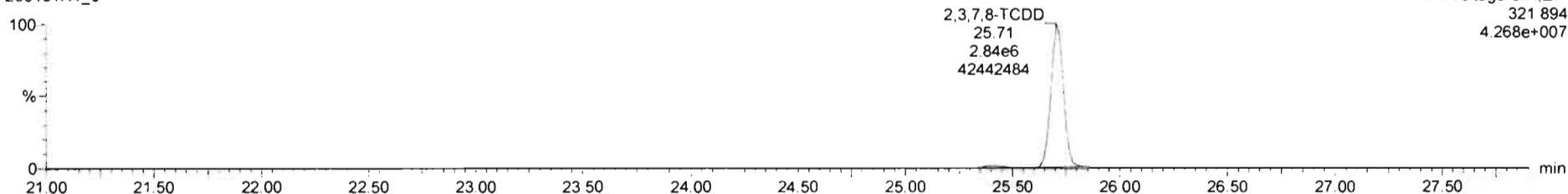
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2,3,7,8-TCDD

200131R1_6

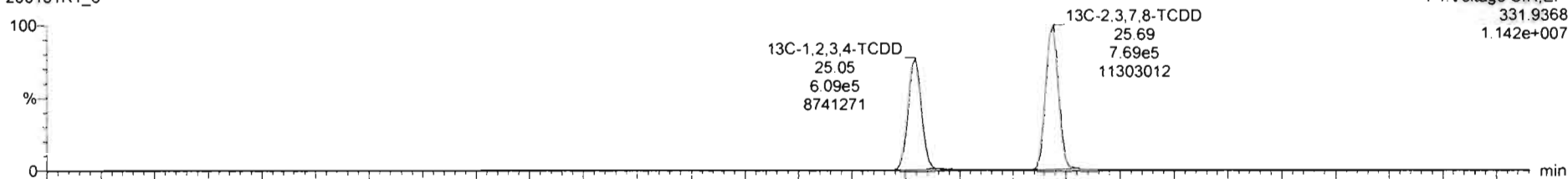


200131R1_6

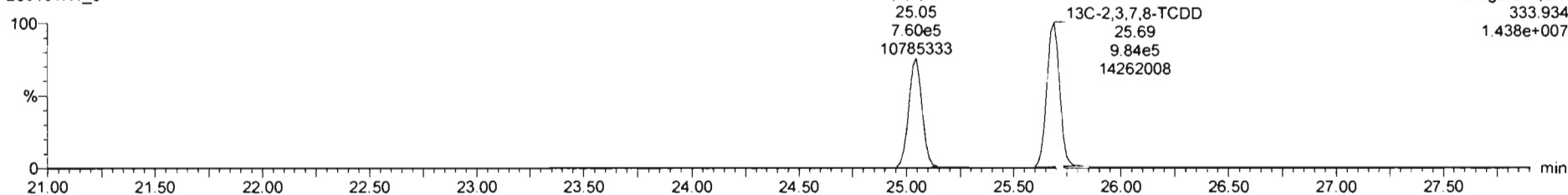


13C-2,3,7,8-TCDD

200131R1_6



200131R1_6



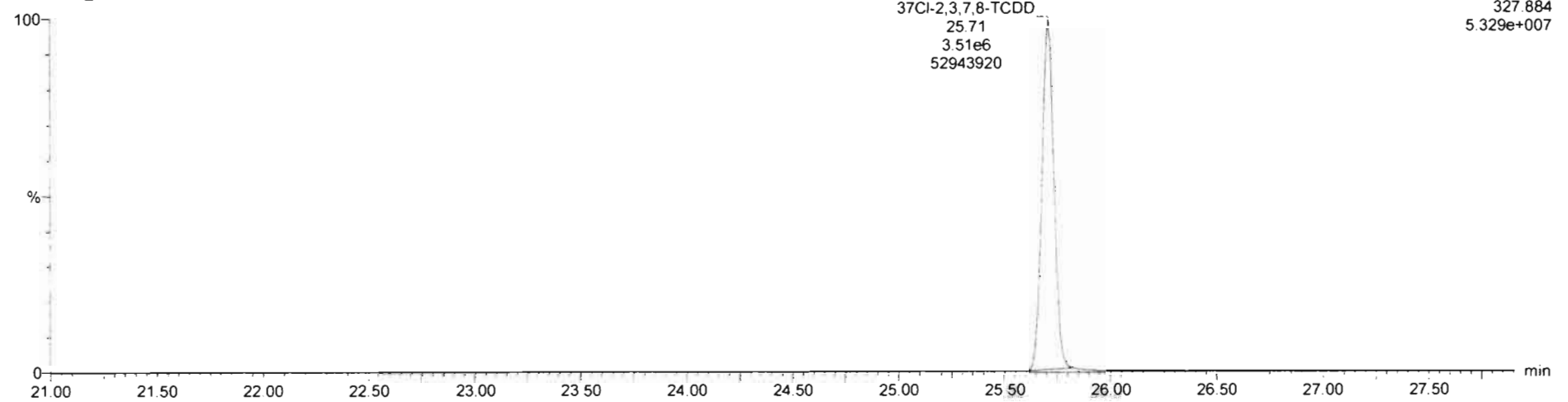
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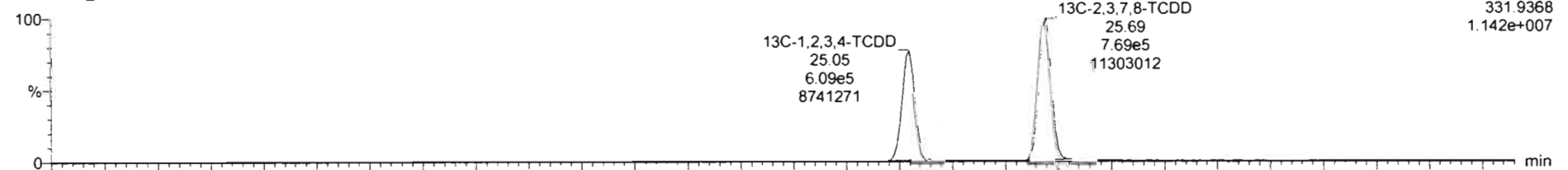
37Cl-2,3,7,8-TCDD

200131R1_6

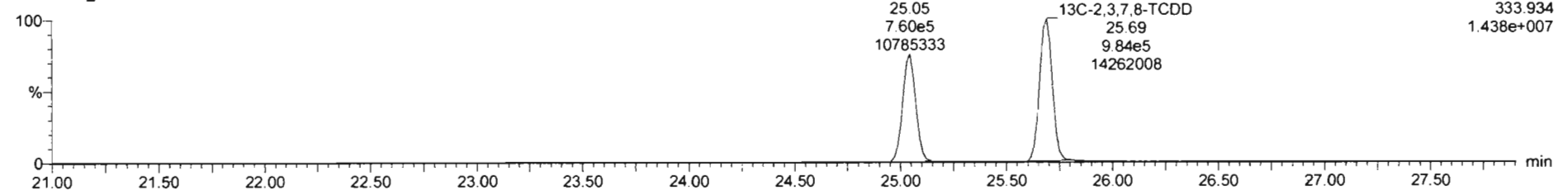


13C-1,2,3,4-TCDD

200131R1_6



200131R1_6



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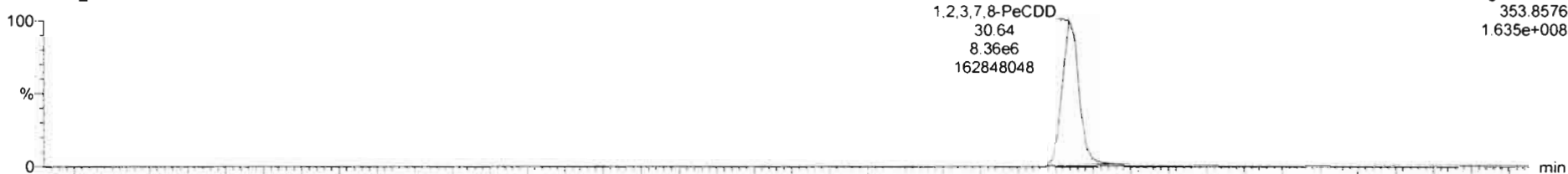
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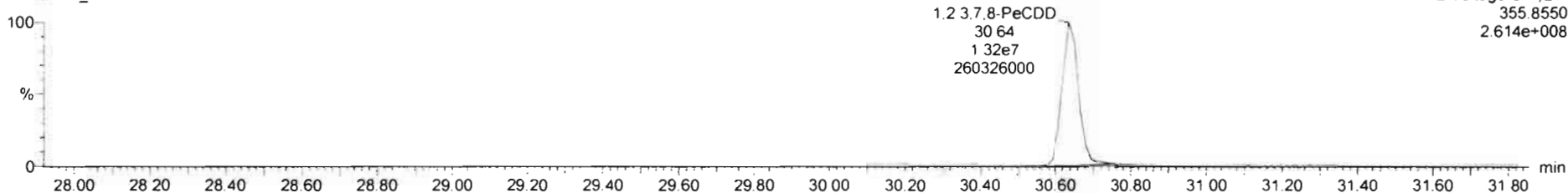
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1,2,3,7,8-PeCDD

200131R1_6

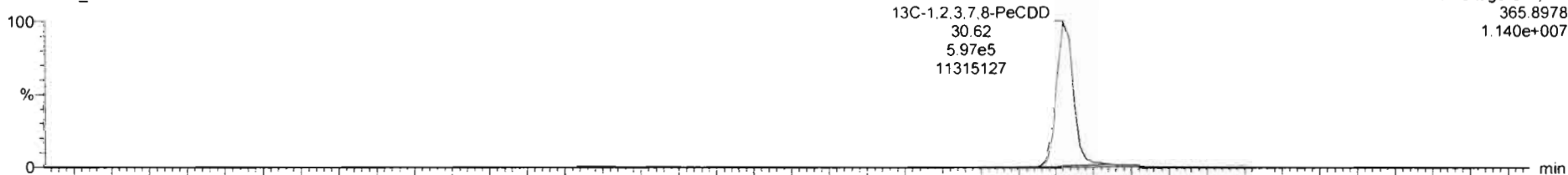


200131R1_6

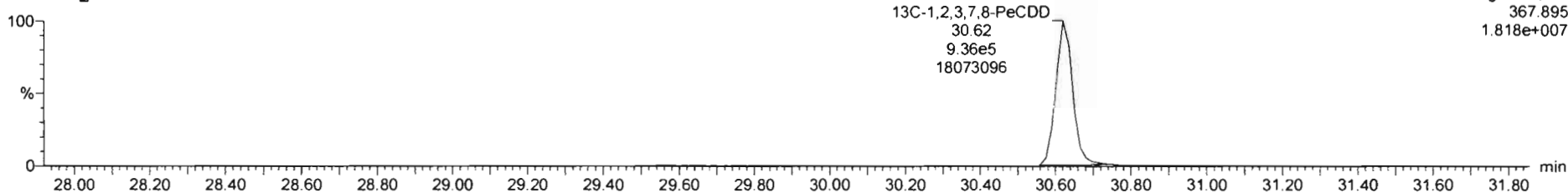


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200131R1_6



200131R1_6



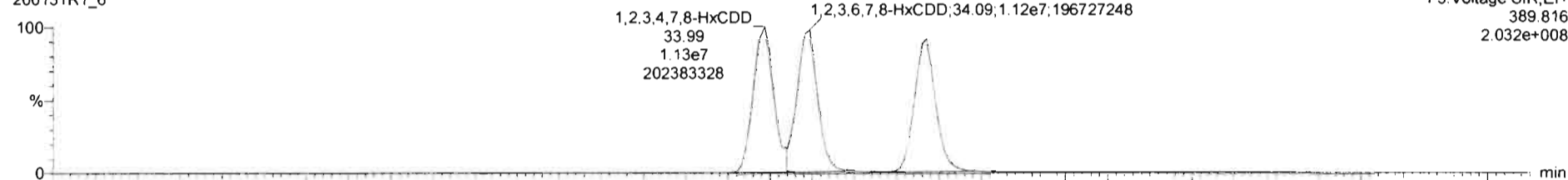
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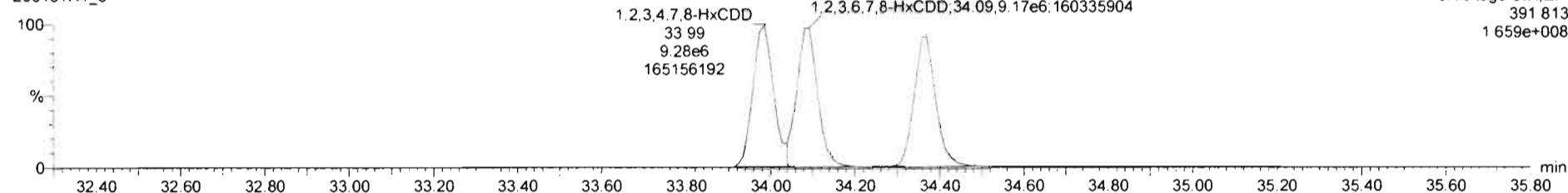
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1,2,3,4,7,8-HxCDD

200131R1_6

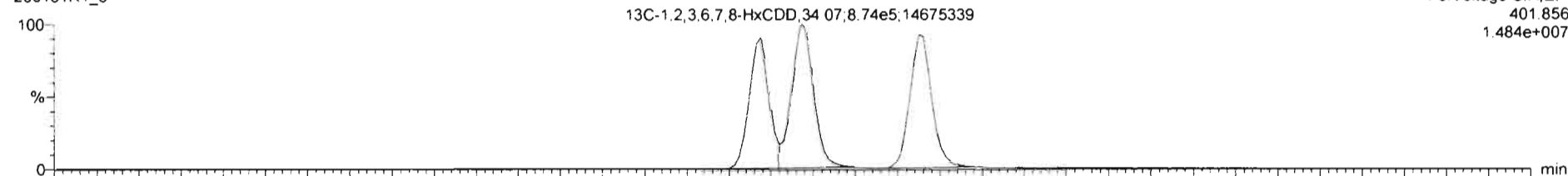


200131R1_6

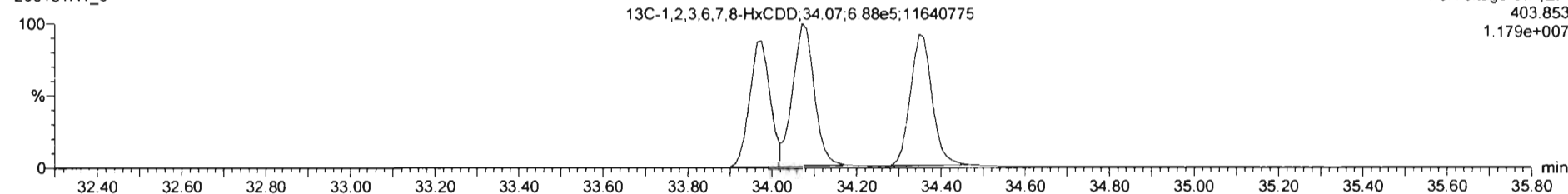


13C-1,2,3,4,7,8-HxCDD

200131R1_6



200131R1_6



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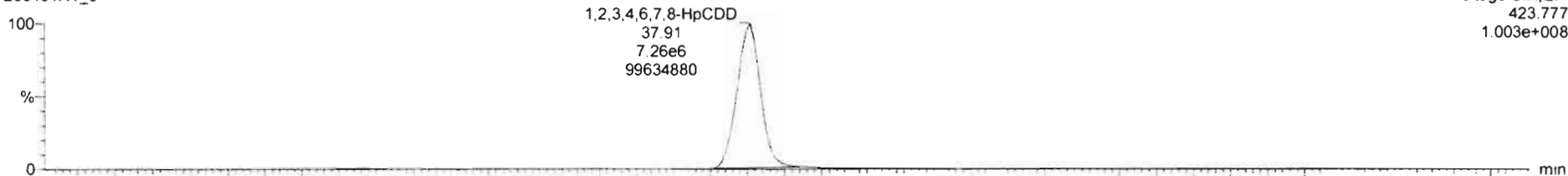
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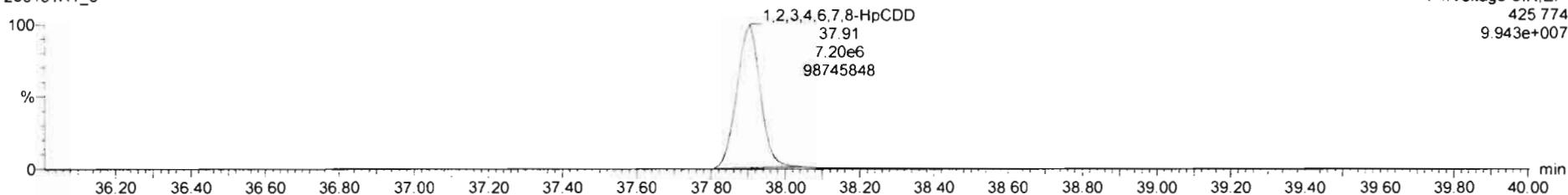
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1,2,3,4,6,7,8-HpCDD

200131R1_6

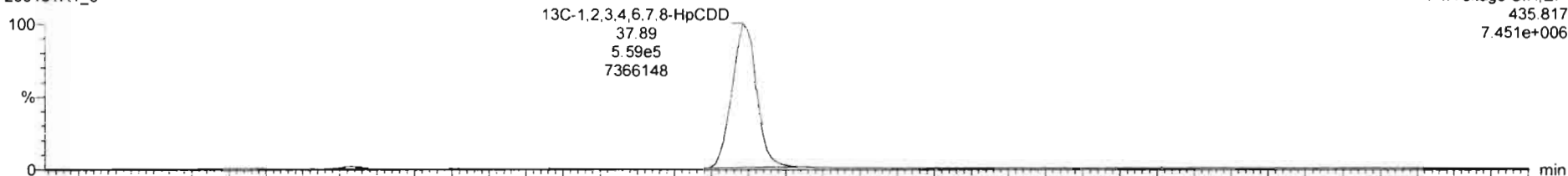


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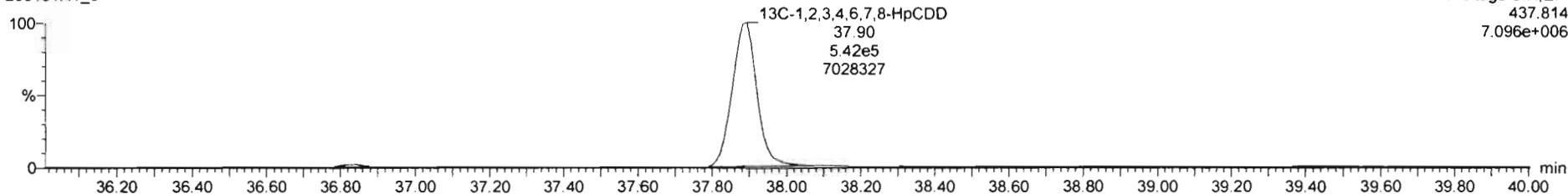


13C-1,2,3,4,6,7,8-HpCDD

200131R1_6



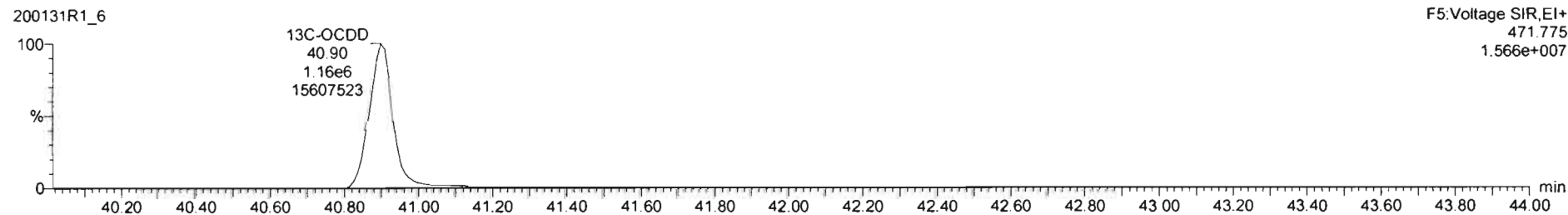
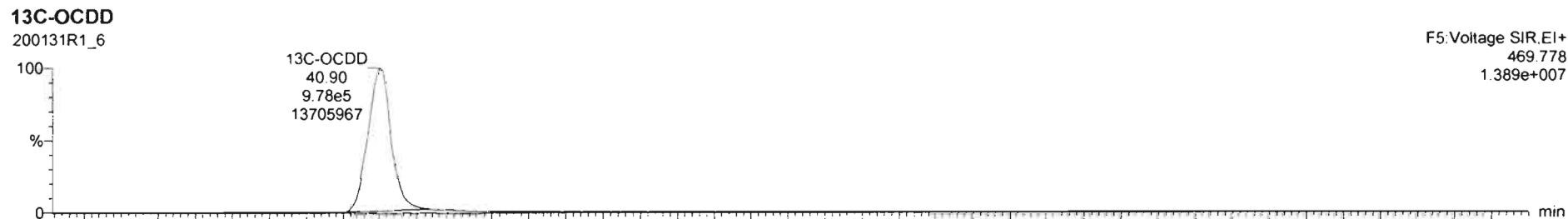
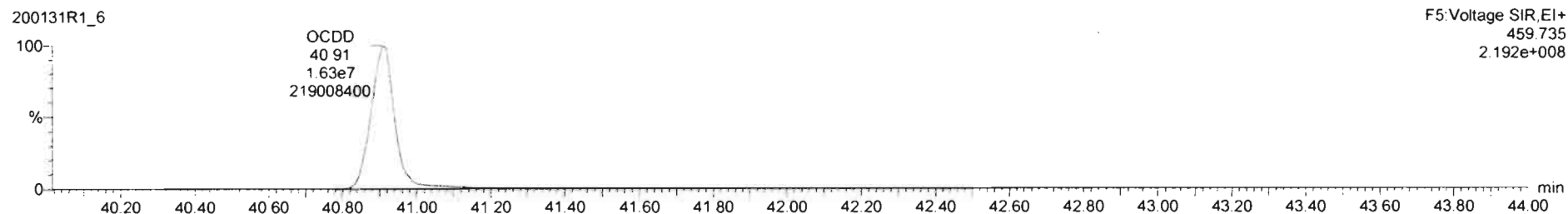
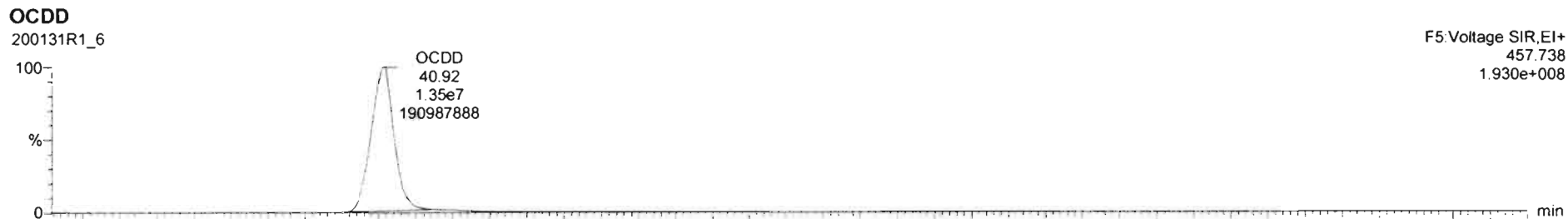
200131R1_6



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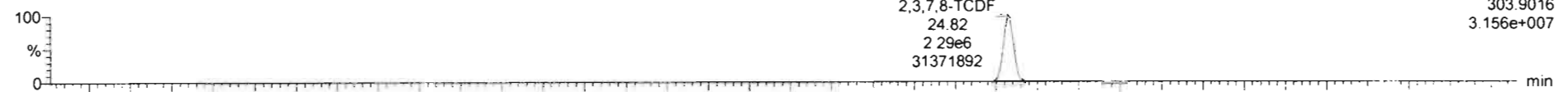
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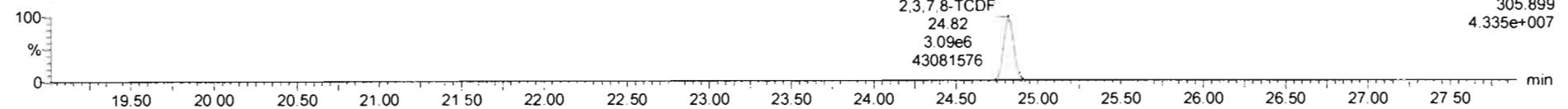
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2,3,7,8-TCDF

200131R1_6

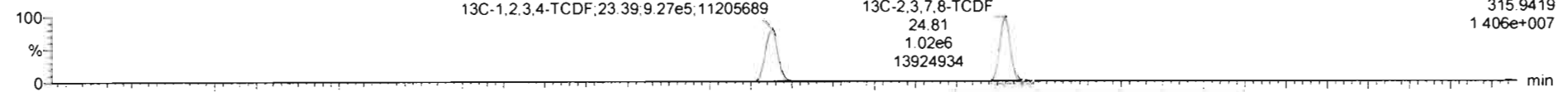


200131R1_6

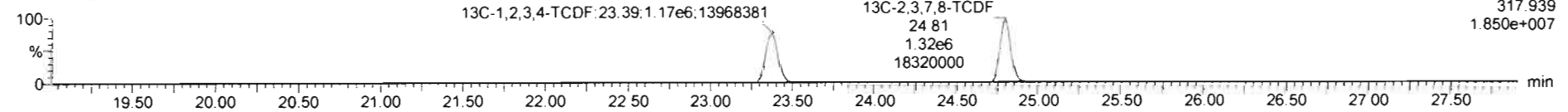


13C-2,3,7,8-TCDF

200131R1_6

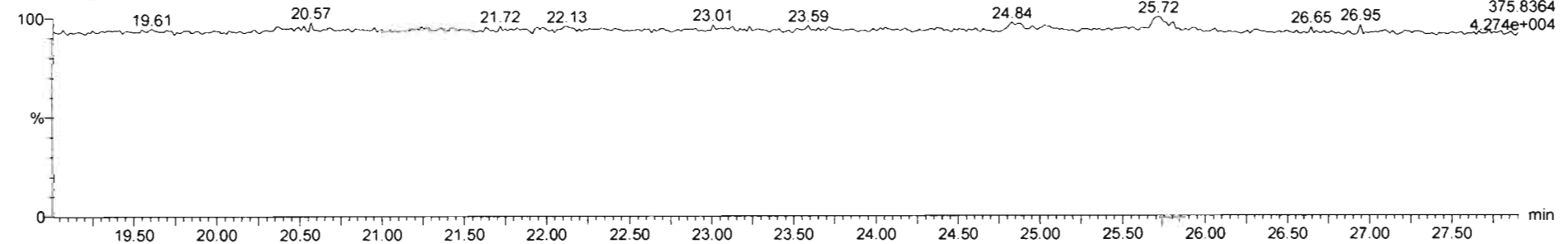


200131R1_6



DPE1

200131R1_6



Dataset: Untitled

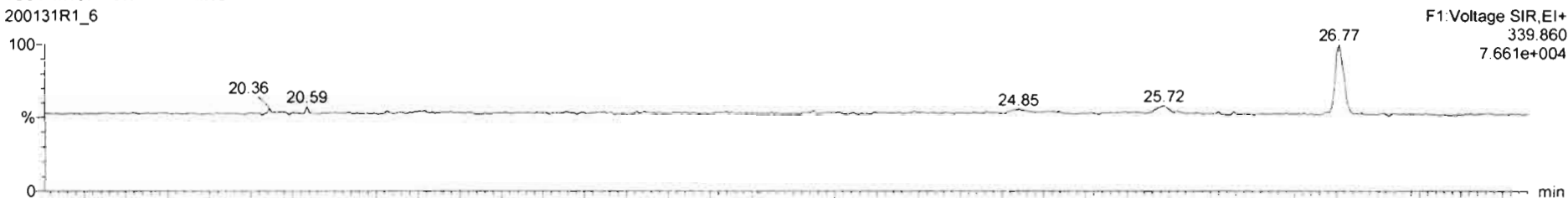
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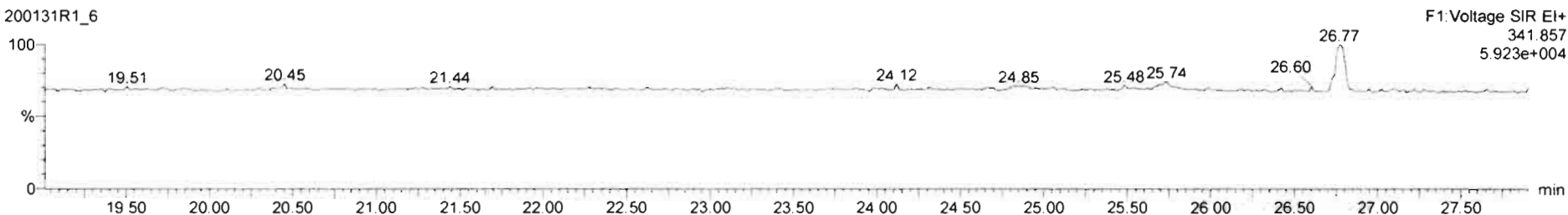
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1st Func. Penta-Furans

200131R1_6

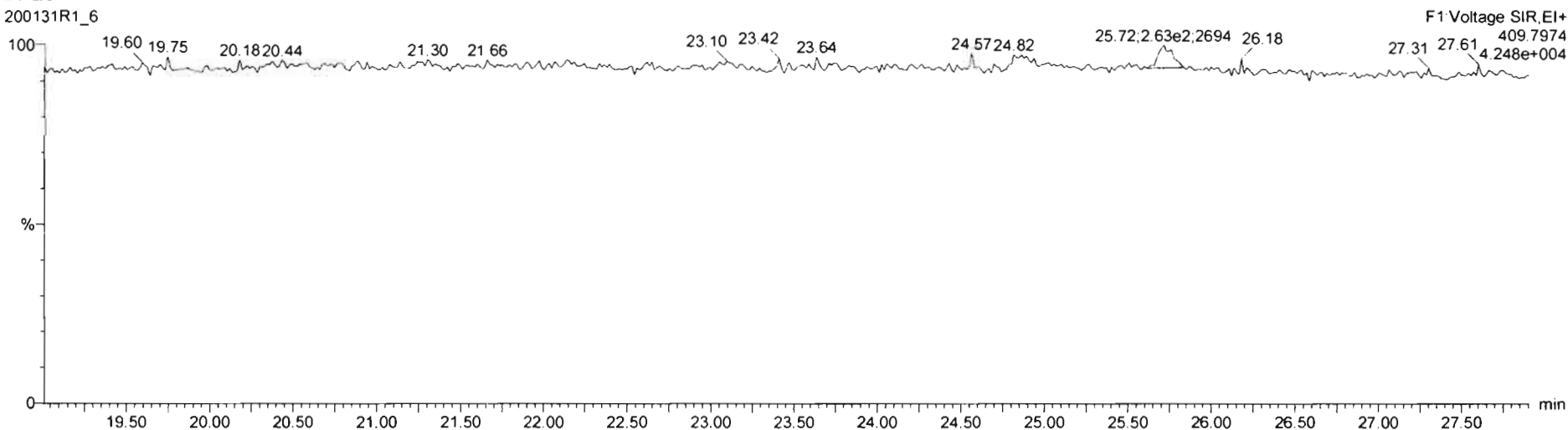


200131R1_6



DPE6

200131R1_6



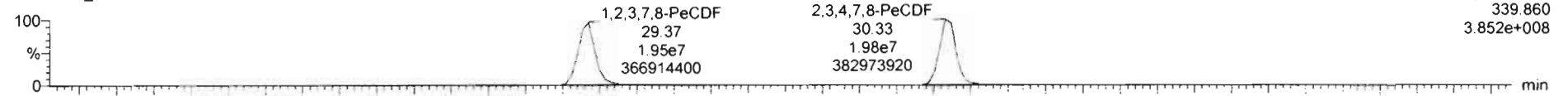
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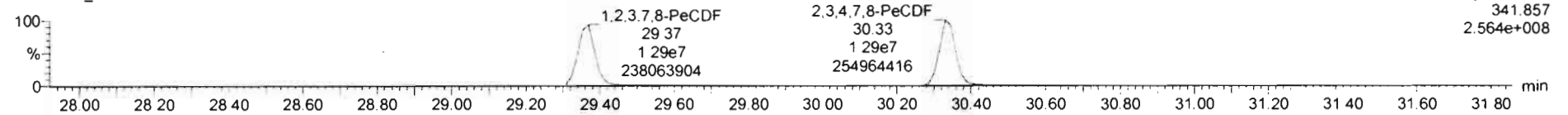
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1,2,3,7,8-PeCDF

200131R1_6

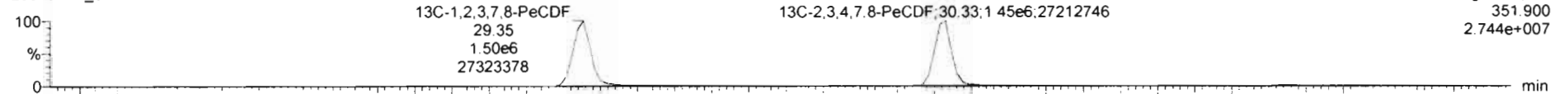


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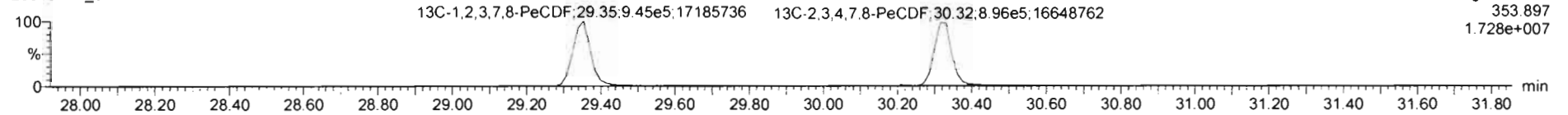


13C-1,2,3,7,8-PeCDF

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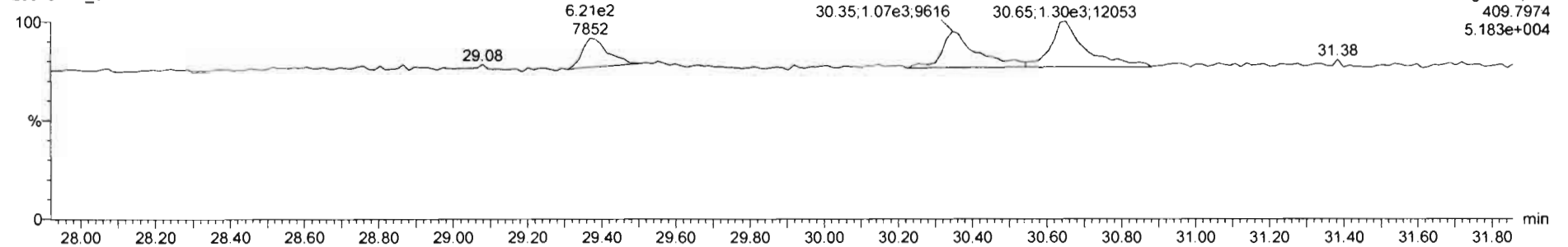


200131R1_6



DPE2

200131R1_6



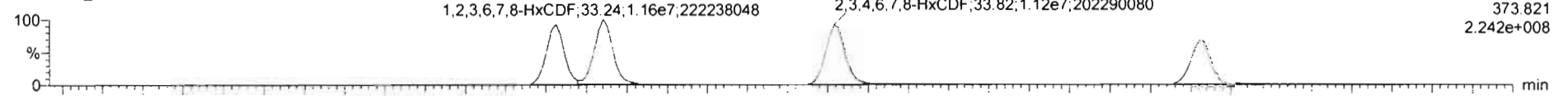
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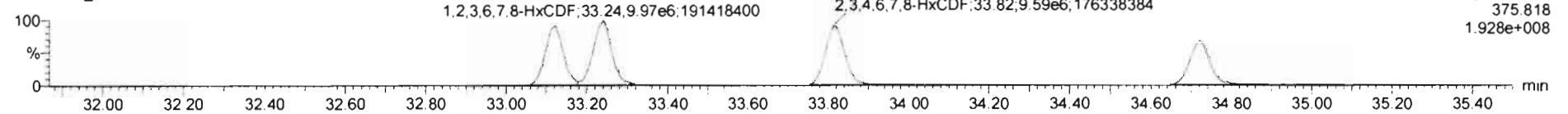
1,2,3,4,7,8-HxCDF

200131R1_6



F3: Voltage SIR, EI+
373 821
2.242e+008

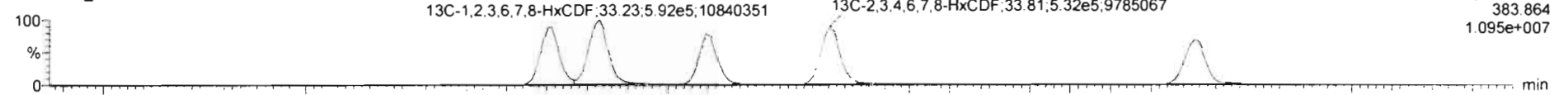
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1.928e+008

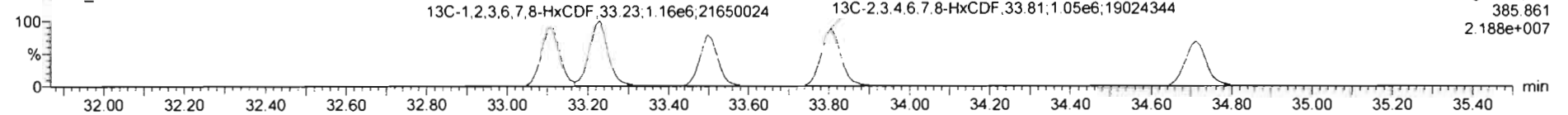
13C-1,2,3,4,7,8-HxCDF

200131R1_6



F3: Voltage SIR, EI+
383 864
1.095e+007

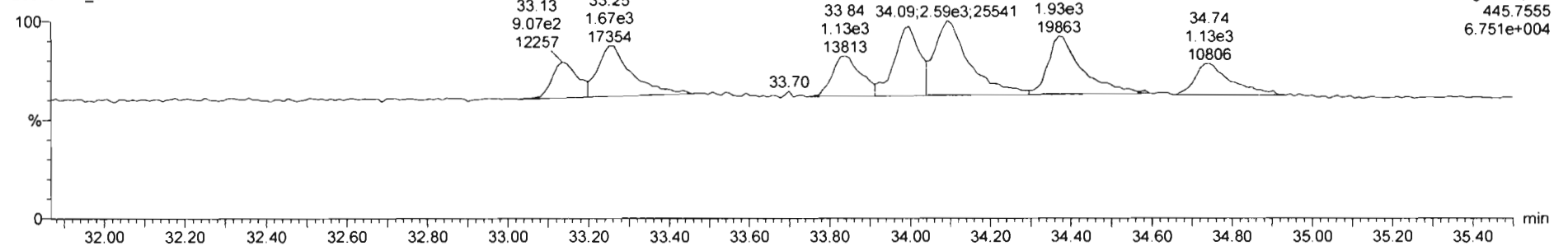
200131R1_6



F3: Voltage SIR, EI+
385 861
2.188e+007

DPE3

200131R1_6



F3: Voltage SIR, EI+
445 7555
6.751e+004

Dataset: Untitled

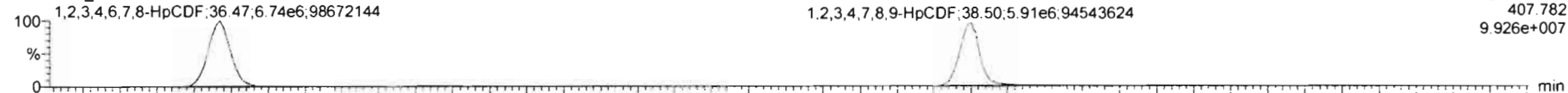
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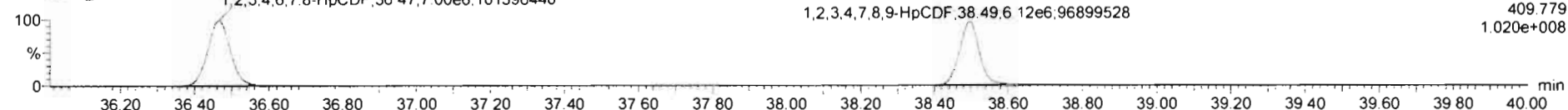
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1,2,3,4,6,7,8-HpCDF

200131R1_6

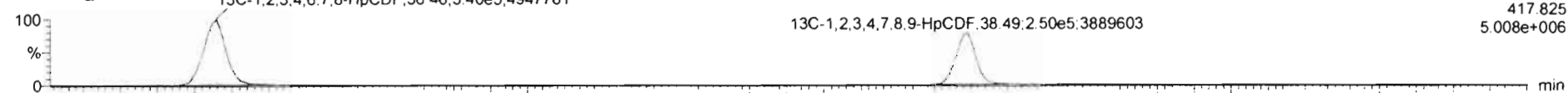


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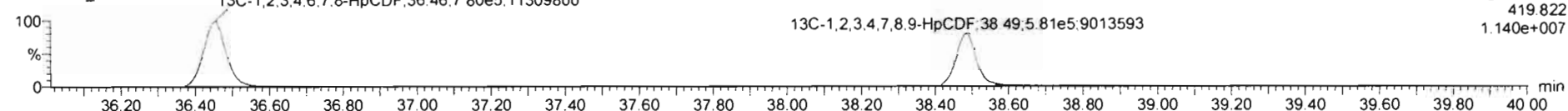


13C-1,2,3,4,6,7,8-HpCDF

200131R1_6

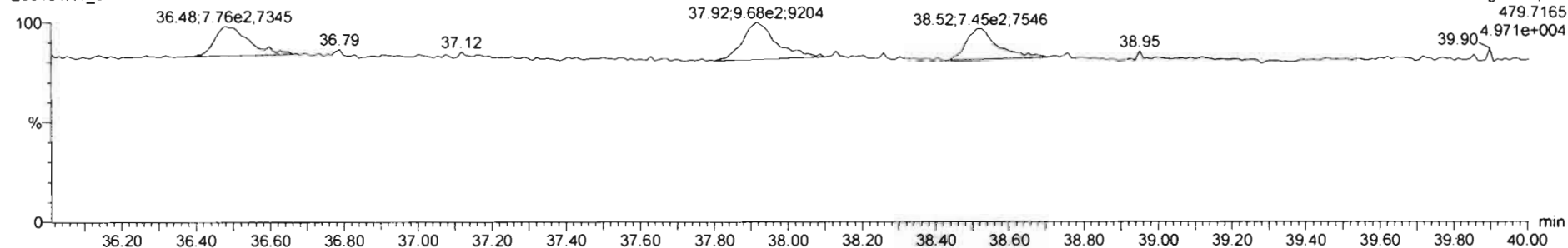


200131R1_6



DPE4

200131R1_6

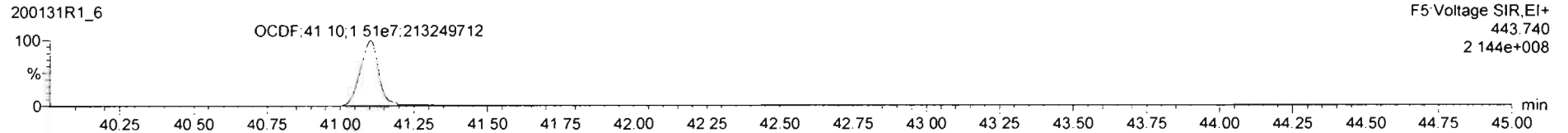
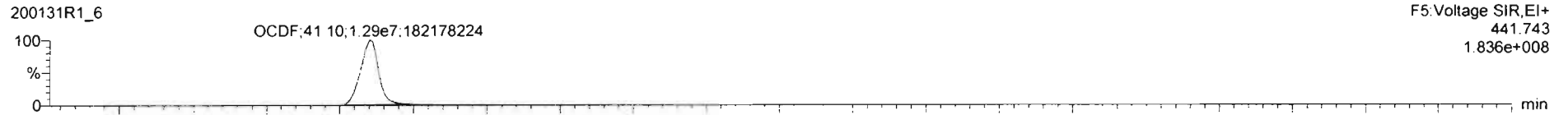


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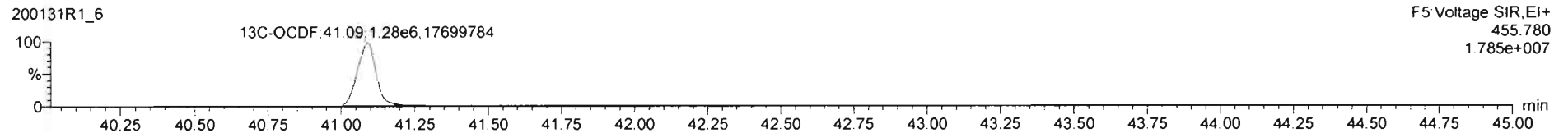
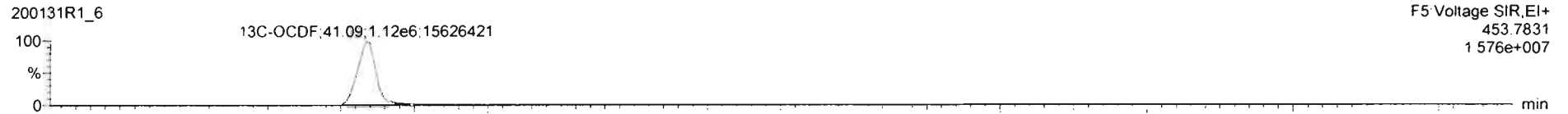
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

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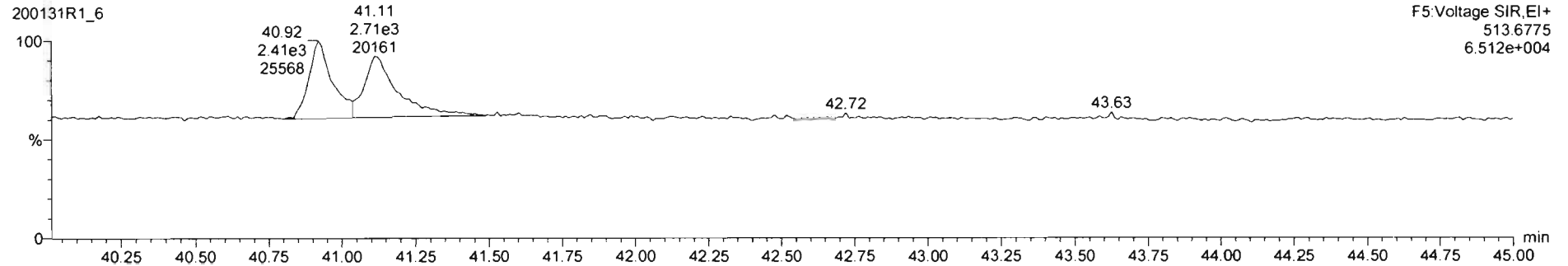
OCDF



13C-OCDF



DPE5

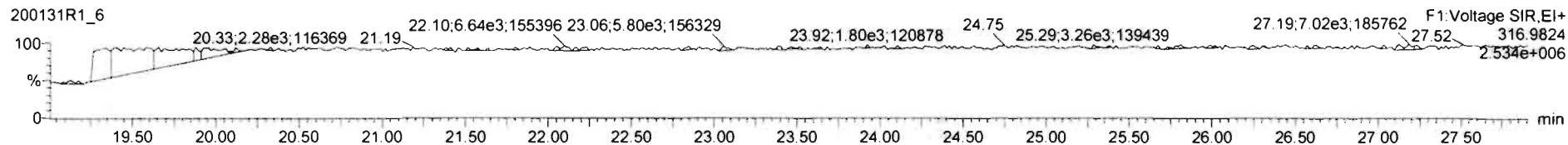


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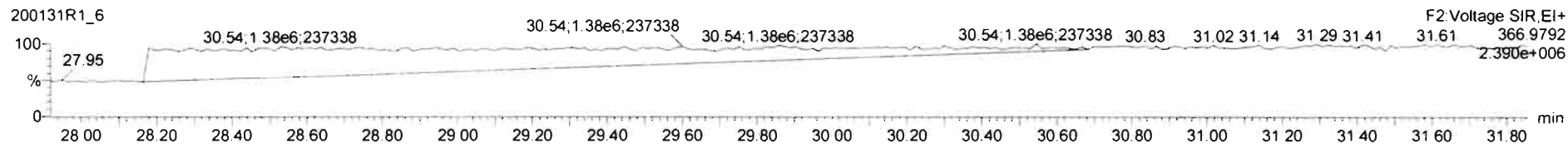
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Printed: Sunday, February 02, 2020 11:06:35 AM Pacific Standard Time

Name: 200131R1_6, Date: 31-Jan-2020, Time: 20:44:23, ID: ST200131R1_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

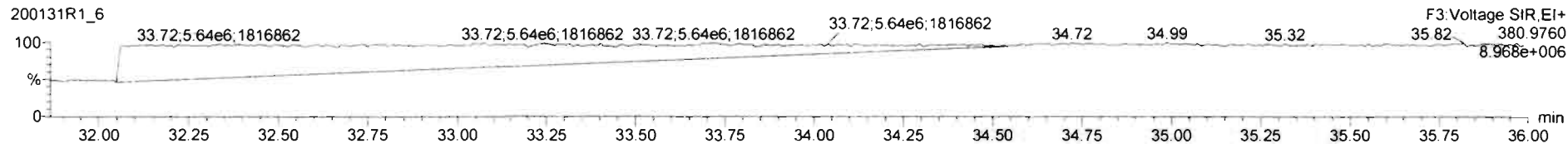
PFK1



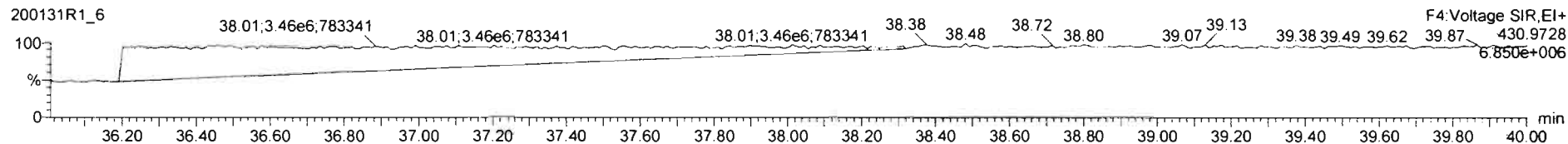
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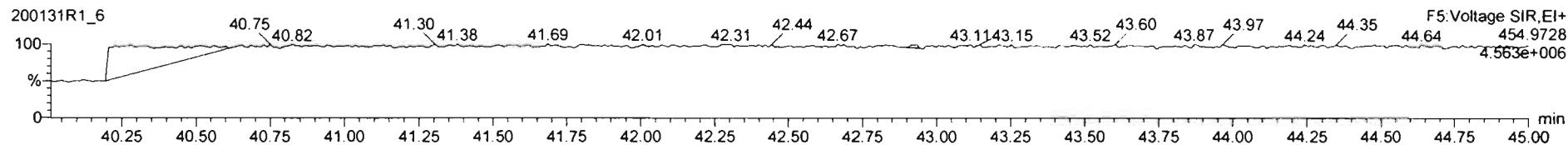
PFK3



PFK4

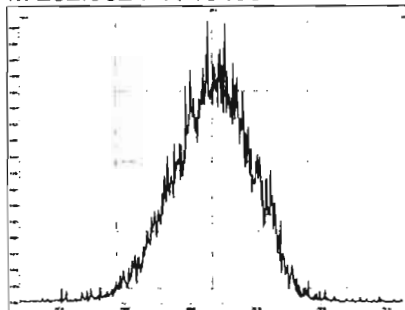


PFK5

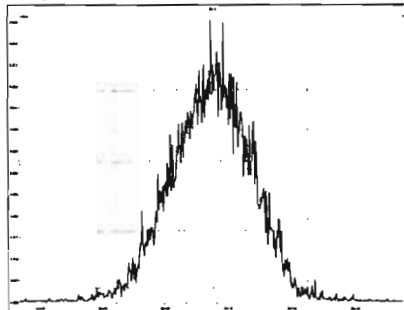


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

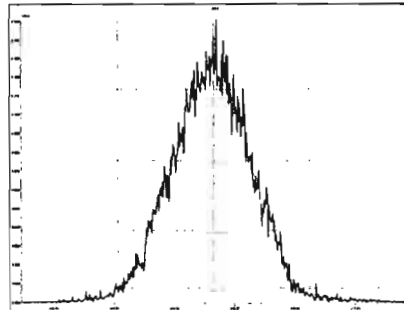
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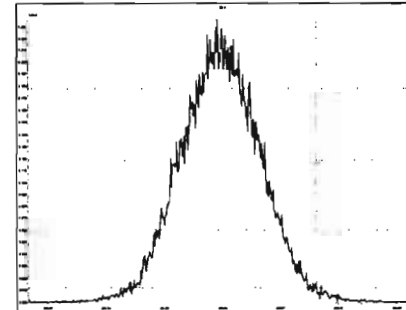
M 304.9824 R 11062



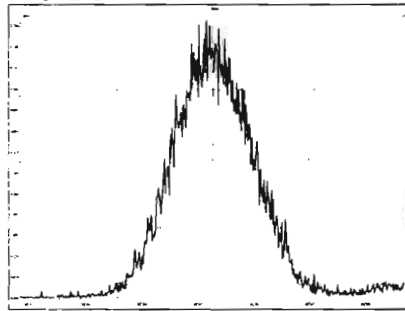
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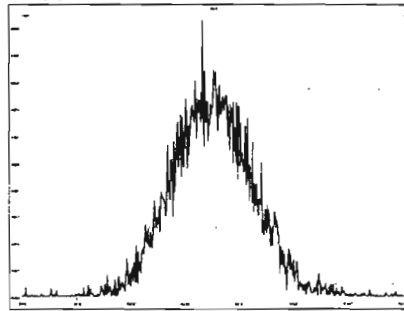
M 330.9792 R 10988



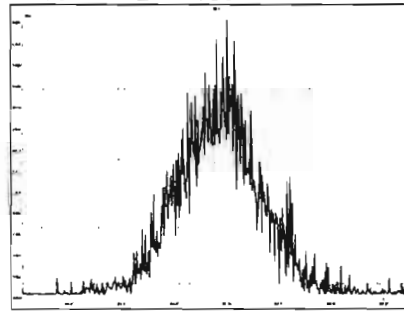
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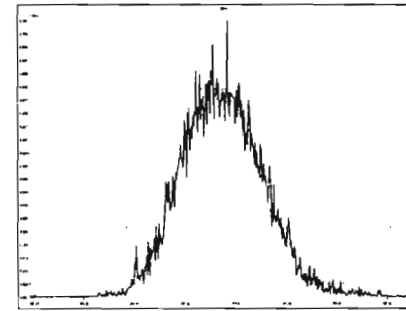
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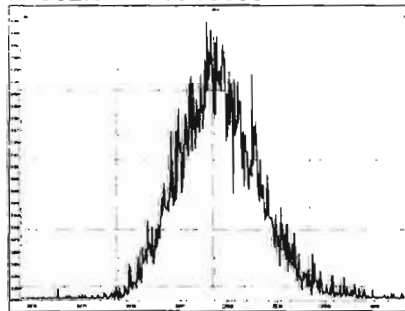
M 366.9792 R 10852



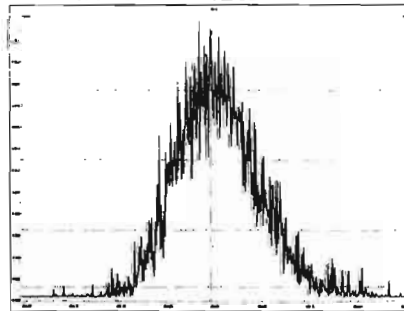
M 380.9760 R 10686



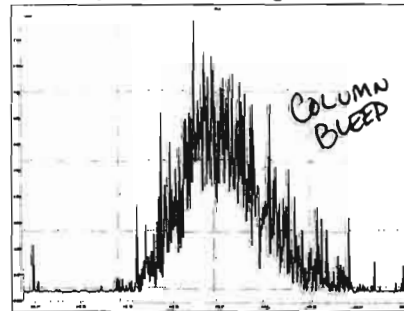
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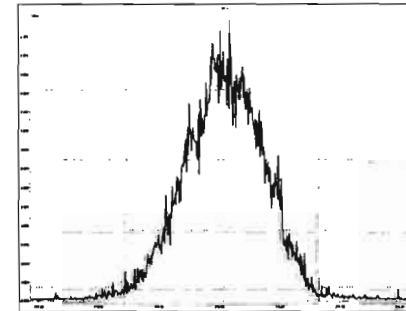
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M 416.9760 R 6578 ok

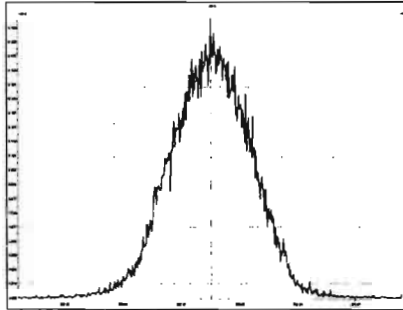


M 318.9792 R 10639

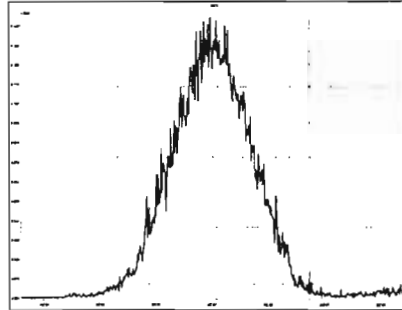


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

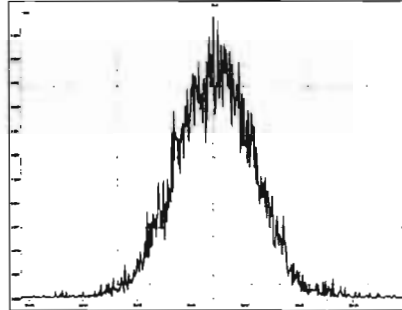
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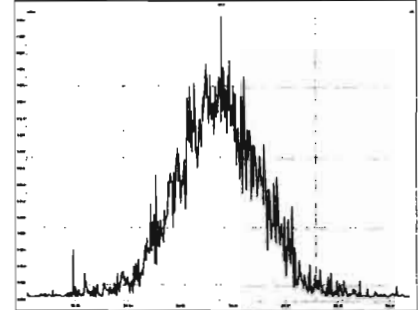
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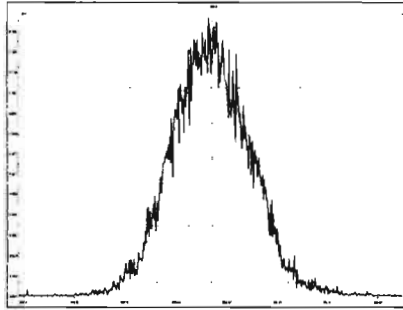
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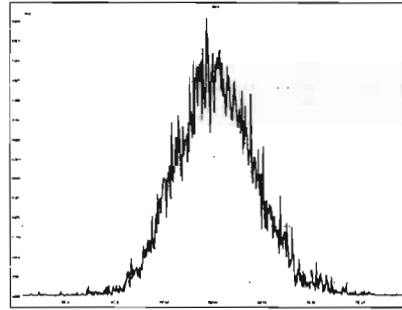
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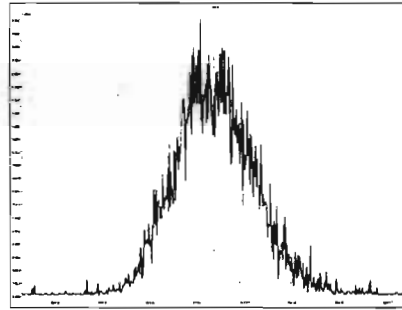
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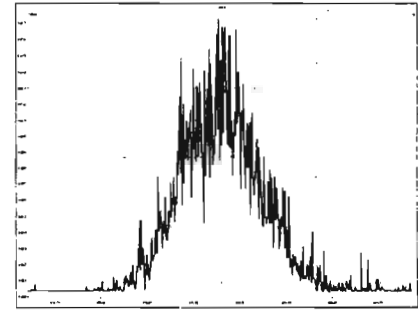
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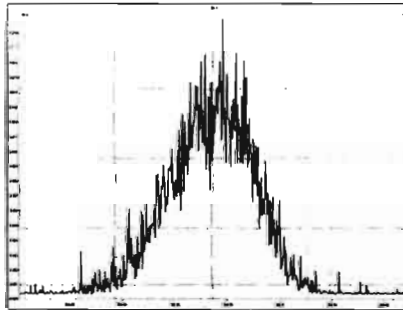
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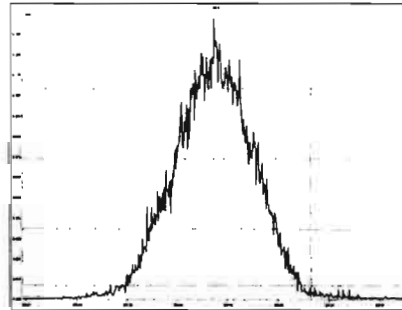
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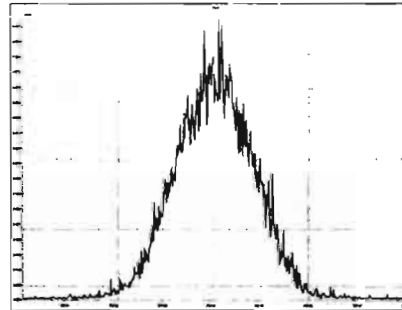
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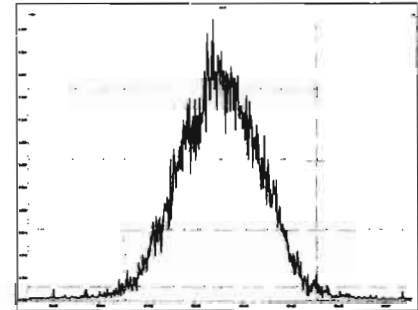
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M 392.9760 R 10930

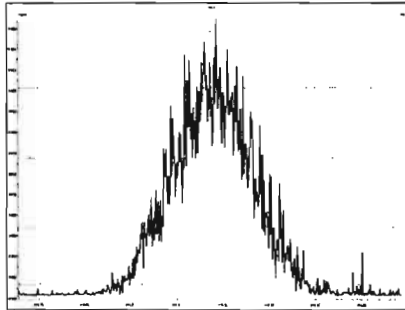


M 404.9760 R 11521

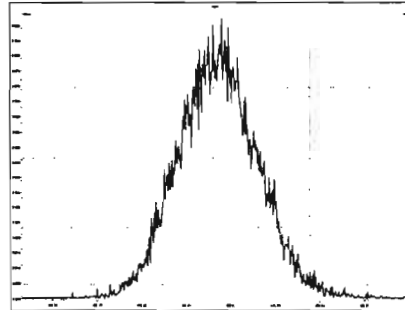


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

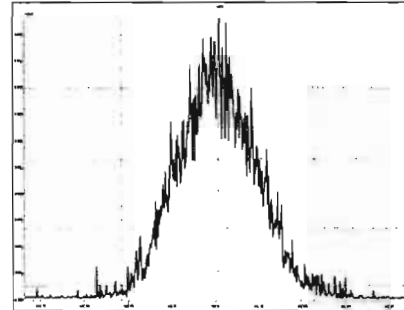
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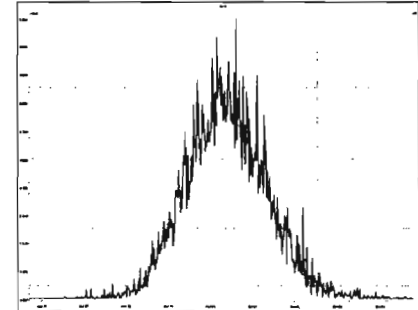
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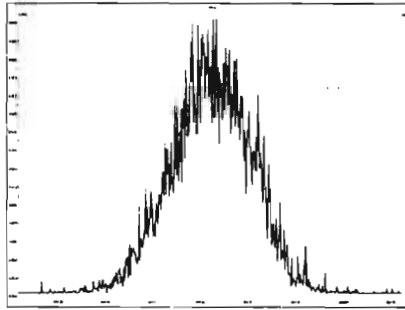
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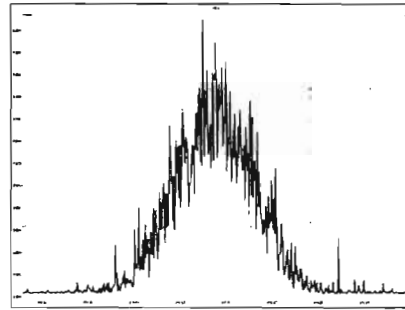
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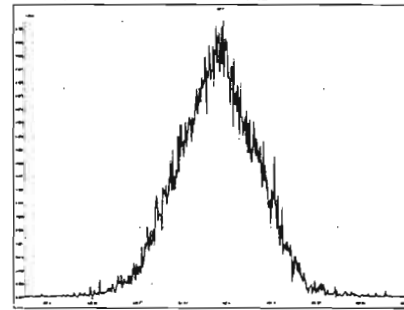
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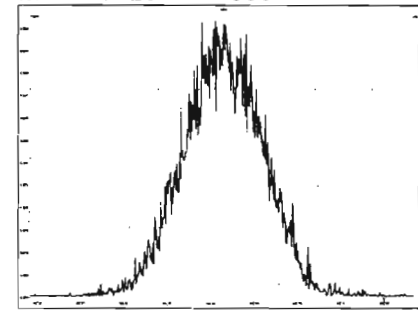
M 416.9760 R 10817



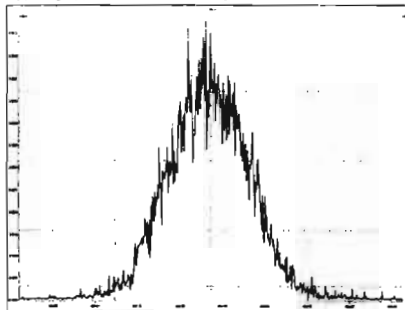
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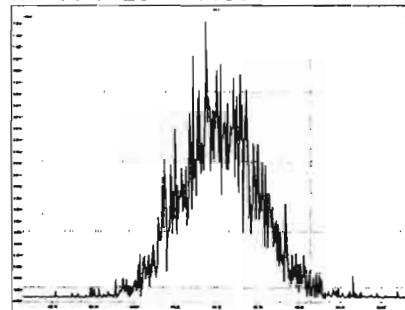
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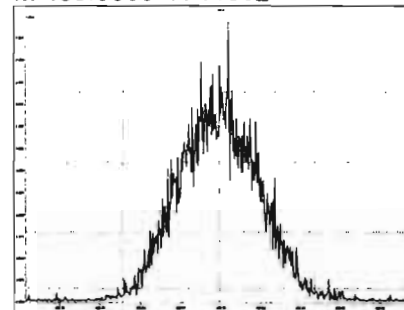
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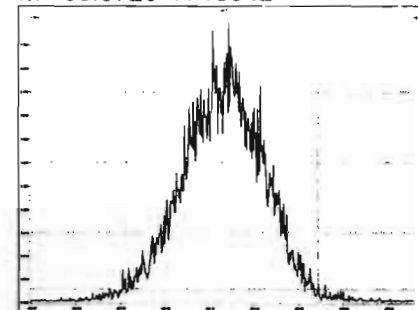
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M 480.9696 R 11062

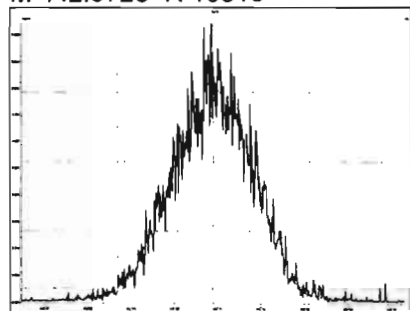


M 430.9728 R 10642

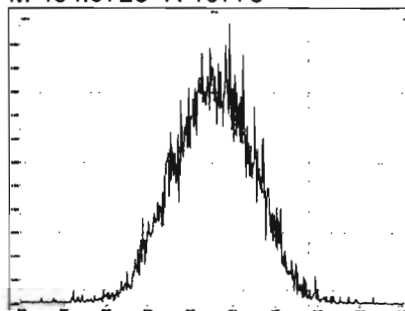


Printed: Saturday, February 01, 2020 07:51:26 Pacific Standard Time

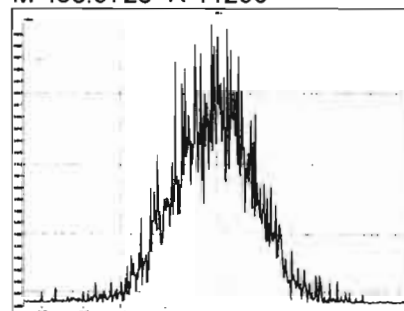
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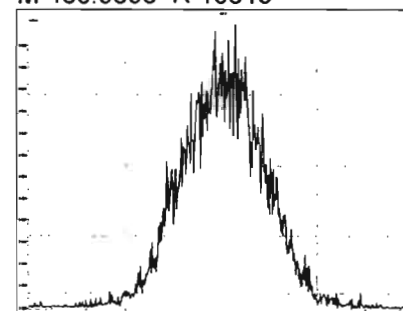
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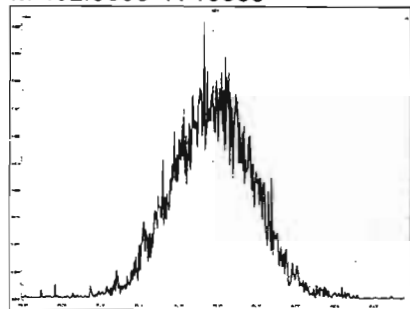
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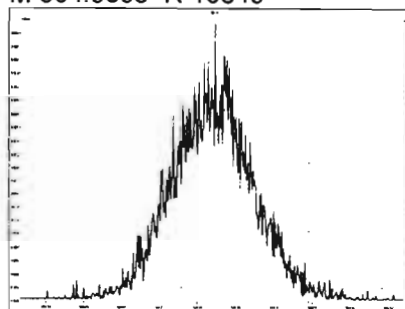
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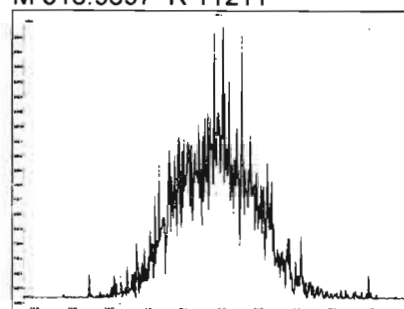
M 492.9696 R 10685



M 504.9696 R 10849



M 516.9697 R 11211



Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

GPB 02/02/2020

C7 02/04/2020

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	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	1.56e5	0.77	NO	0.988	1.000	25.691	25.69	1.001	1.001	10.621	106	0.0312	10.6
2	2 1,2,3,7,8-PeCDD	6.38e5	0.61	NO	0.972	1.000	30.627	30.62	1.001	1.001	53.028	106	0.0615	53.0
3	3 1,2,3,4,7,8-HxCDD	5.69e5	1.22	NO	1.07	1.000	33.966	33.97	1.000	1.000	53.501	107	0.0848	53.5
4	4 1,2,3,6,7,8-HxCDD	6.05e5	1.23	NO	0.921	1.000	34.062	34.07	1.000	1.000	57.295	115	0.0864	57.3
5	5 1,2,3,7,8,9-HxCDD	5.57e5	1.21	NO	0.918	1.000	34.373	34.35	1.001	1.000	55.837	112	0.0961	55.8
6	6 1,2,3,4,6,7,8-HpCDD	4.04e5	1.06	NO	0.923	1.000	37.886	37.90	1.000	1.001	54.330	109	0.220	54.3
7	7 OCDD	7.74e5	0.92	NO	0.975	1.000	40.878	40.89	1.000	1.000	108.30	108	0.139	108
8	8 2,3,7,8-TCDF	1.73e5	0.74	NO	0.802	1.000	24.802	24.79	1.001	1.001	10.751	108	0.0280	10.8
9	9 1,2,3,7,8-PeCDF	9.70e5	1.53	NO	0.907	1.000	29.345	29.34	1.001	1.001	54.081	108	0.0886	54.1
10	10 2,3,4,7,8-PeCDF	1.11e6	1.53	NO	0.952	1.000	30.331	30.32	1.001	1.001	60.939	122	0.0845	60.9
11	11 1,2,3,4,7,8-HxCDF	5.97e5	1.15	NO	0.862	1.000	33.093	33.10	1.000	1.000	56.486	113	0.117	56.5
12	12 1,2,3,6,7,8-HxCDF	6.65e5	1.16	NO	0.841	1.000	33.220	33.22	1.000	1.000	55.919	112	0.104	55.9
13	13 2,3,4,6,7,8-HxCDF	5.96e5	1.17	NO	0.898	1.000	33.819	33.81	1.001	1.001	53.809	108	0.119	53.8
14	14 1,2,3,7,8,9-HxCDF	4.82e5	1.16	NO	0.858	1.000	34.690	34.71	1.000	1.001	54.259	109	0.175	54.3
15	15 1,2,3,4,6,7,8-HpCDF	4.07e5	0.95	NO	0.851	1.000	36.473	36.45	1.001	1.000	56.639	113	0.174	56.6
16	16 1,2,3,4,7,8,9-HpCDF	3.25e5	0.98	NO	0.980	1.000	38.471	38.48	1.000	1.000	55.517	111	0.189	55.5
17	17 OCDF	7.18e5	0.86	NO	0.806	1.000	41.070	41.08	1.000	1.000	105.51	106	0.148	106
18	18 13C-2,3,7,8-TCDD	1.49e6	0.78	NO	1.20	1.000	25.660	25.66	1.026	1.026	92.060	92.1	0.106	
19	19 13C-1,2,3,7,8-PeCDD	1.24e6	0.64	NO	0.967	1.000	30.395	30.61	1.215	1.223	95.149	95.1	0.134	
20	20 13C-1,2,3,4,7,8-HxCDD	9.93e5	1.27	NO	0.874	1.000	33.955	33.96	1.014	1.014	87.678	87.7	0.159	
21	21 13C-1,2,3,6,7,8-HxCDD	1.15e6	1.25	NO	1.05	1.000	34.056	34.06	1.017	1.017	84.618	84.6	0.133	
22	22 13C-1,2,3,7,8,9-HxCDD	1.09e6	1.25	NO	0.974	1.000	34.357	34.34	1.026	1.025	86.118	86.1	0.143	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.06e5	1.06	NO	0.747	1.000	37.907	37.87	1.132	1.131	83.254	83.3	0.245	
24	24 13C-OCDD	1.47e6	0.89	NO	0.707	1.000	40.787	40.88	1.218	1.221	160.15	80.1	0.173	
25	25 13C-2,3,7,8-TCDF	2.01e6	0.78	NO	1.07	1.000	24.842	24.78	0.993	0.990	91.210	91.2	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.98e6	1.58	NO	1.00	1.000	29.170	29.32	1.166	1.172	95.322	95.3	0.190	
27	27 13C-2,3,4,7,8-PeCDF	1.91e6	1.60	NO	0.962	1.000	30.120	30.30	1.204	1.211	96.164	96.2	0.198	
28	28 13C-1,2,3,4,7,8-HxCDF	1.23e6	0.52	NO	1.05	1.000	33.085	33.09	0.988	0.988	90.119	90.1	0.194	
29	29 13C-1,2,3,6,7,8-HxCDF	1.41e6	0.50	NO	1.19	1.000	33.185	33.21	0.991	0.992	91.687	91.7	0.171	
30	30 13C-2,3,4,6,7,8-HxCDF	1.23e6	0.51	NO	1.07	1.000	33.791	33.78	1.009	1.009	89.274	89.3	0.190	
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	0.51	NO	0.922	1.000	34.692	34.69	1.036	1.036	86.700	86.7	0.220	

Dataset: U:\VG12.PRO\Results\200131R1\200131R1-8.qld

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:24:45 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.43e5	0.43	NO	0.767	1.000	36.433	36.44	1.088	1.088	84.846	84.8	0.232	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.98e5	0.43	NO	0.552	1.000	38.443	38.47	1.148	1.149	83.515	83.5	0.322	
34	34 13C-OCDF	1.69e6	0.90	NO	0.789	1.000	41.021	41.07	1.225	1.226	165.15	82.6	0.137	
35	35 37Cl-2,3,7,8-TCDD	1.57e5			1.18	1.000	25.692	25.69	1.027	1.027	9.9110	99.1	0.0232	
36	36 13C-1,2,3,4-TCDD	1.35e6	0.81	NO	1.00	1.000	25.080	25.02	1.000	1.000	100.00	100	0.128	
37	37 13C-1,2,3,4-TCDF	2.07e6	0.79	NO	1.00	1.000	23.420	23.36	1.000	1.000	100.00	100	0.152	
38	38 13C-1,2,3,4,6,9-HxCDF	1.30e6	0.51	NO	1.00	1.000	33.520	33.49	1.000	1.000	100.00	100	0.203	

Dataset: Untitled

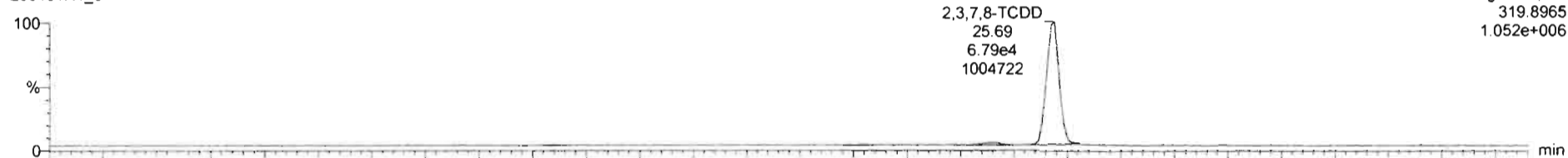
Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Method: U:\VG12.PRO\MethDB\1613rrt-1-28-20.mdb 28 Jan 2020 16:09:23
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-1-31-20.cdb 02 Feb 2020 11:05:29

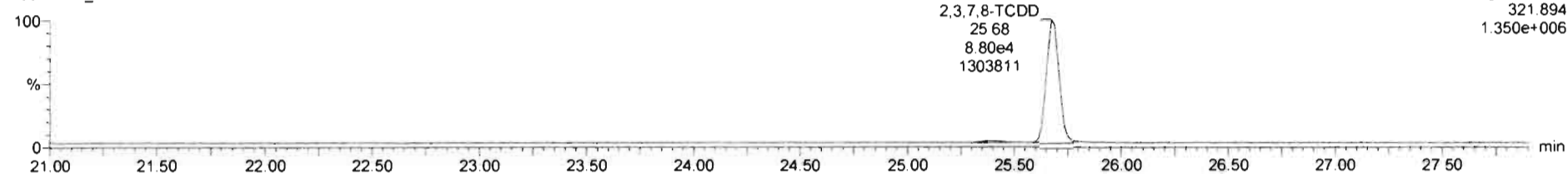
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDD

200131R1_8

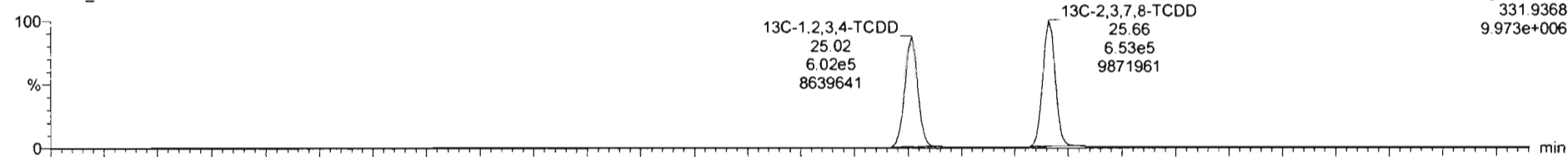


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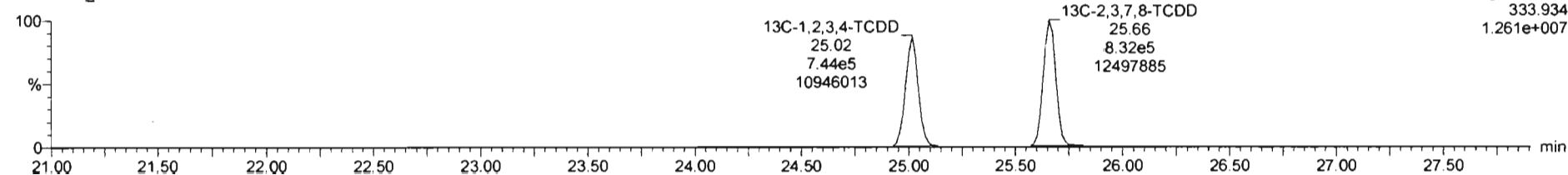


13C-2,3,7,8-TCDD

200131R1_8



200131R1_8



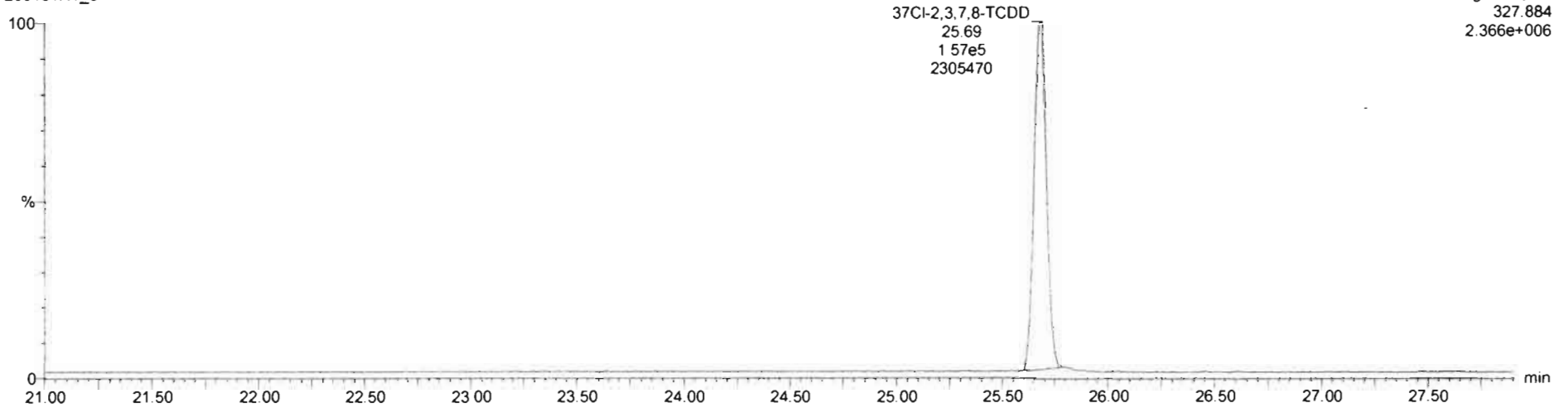
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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

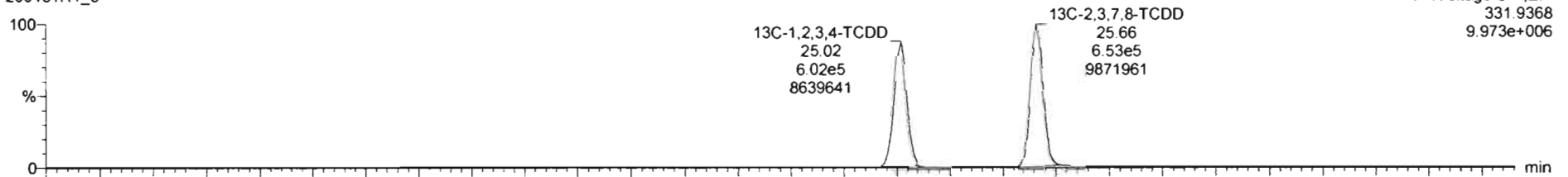
37Cl-2,3,7,8-TCDD

200131R1_8

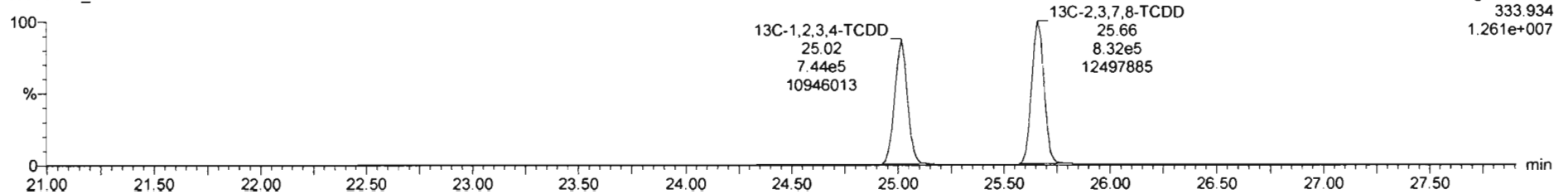


13C-1,2,3,4-TCDD

200131R1_8



200131R1_8



Dataset: Untitled

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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1,2,3,7,8-PeCDD

200131R1_8

1,2,3,7,8-PeCDD
30.62
2.43e5
4890309

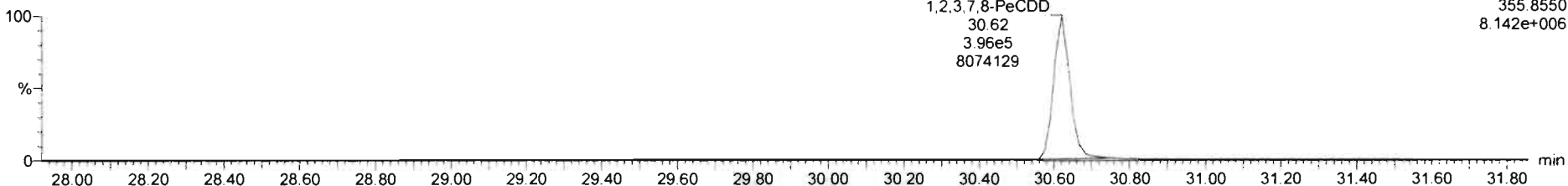
F2:Voltage SIR,EI+
353.8576
4.955e+006



200131R1_8

1,2,3,7,8-PeCDD
30.62
3.96e5
8074129

F2:Voltage SIR,EI+
355.8550
8.142e+006

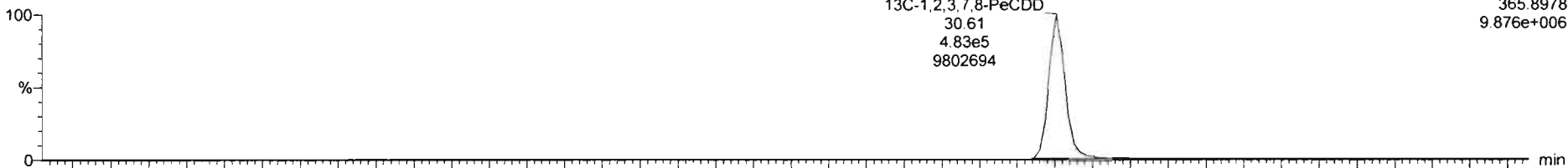


13C-1,2,3,7,8-PeCDD

200131R1_8

13C-1,2,3,7,8-PeCDD
30.61
4.83e5
9802694

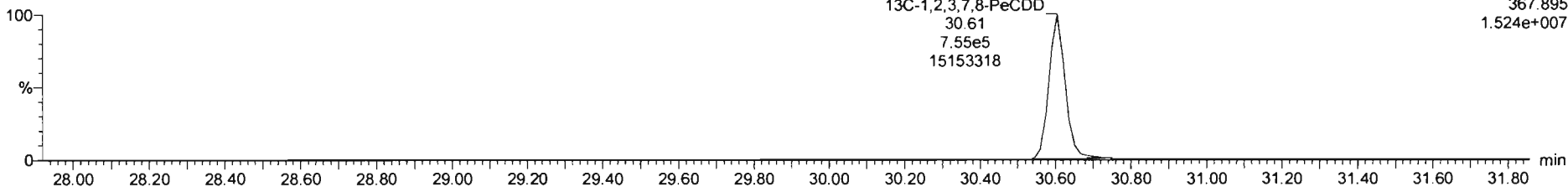
F2:Voltage SIR,EI+
365.8978
9.876e+006



200131R1_8

13C-1,2,3,7,8-PeCDD
30.61
7.55e5
15153318

F2:Voltage SIR,EI+
367.895
1.524e+007



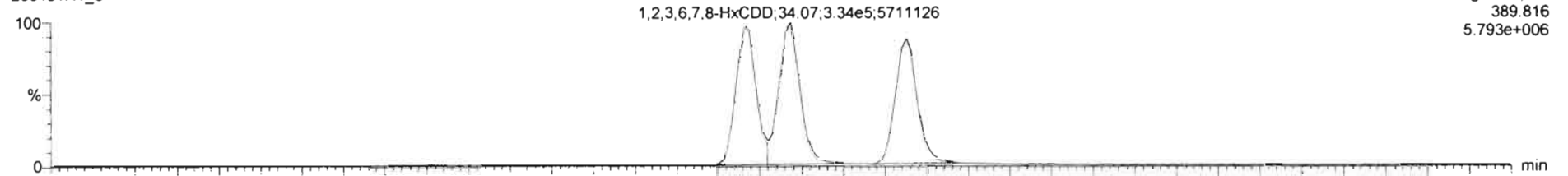
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

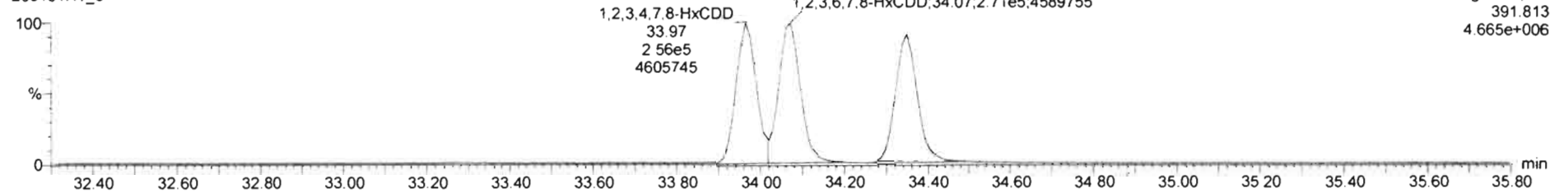
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1,2,3,4,7,8-HxCDD

200131R1_8

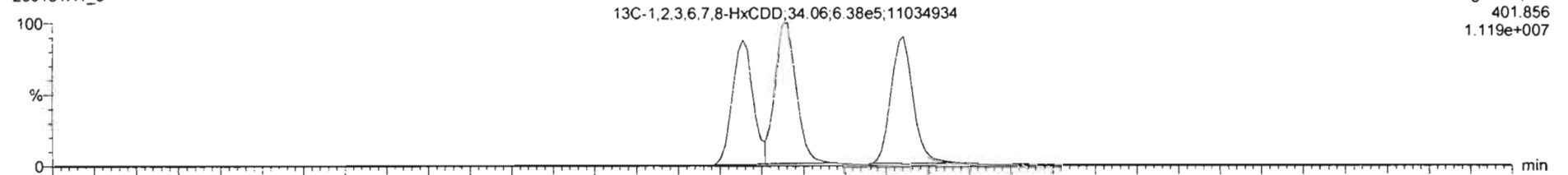


200131R1_8

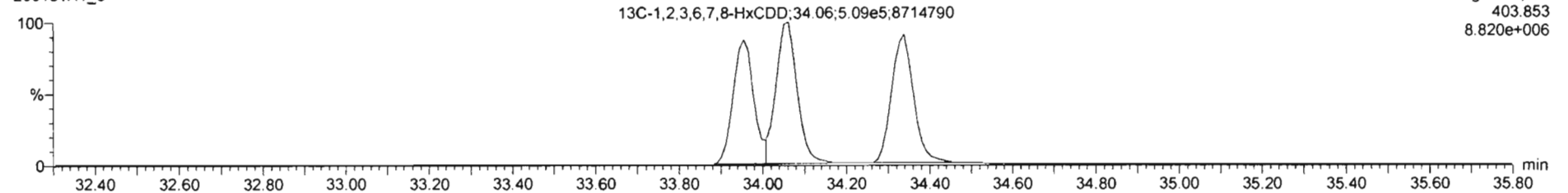


13C-1,2,3,4,7,8-HxCDD

200131R1_8



200131R1_8



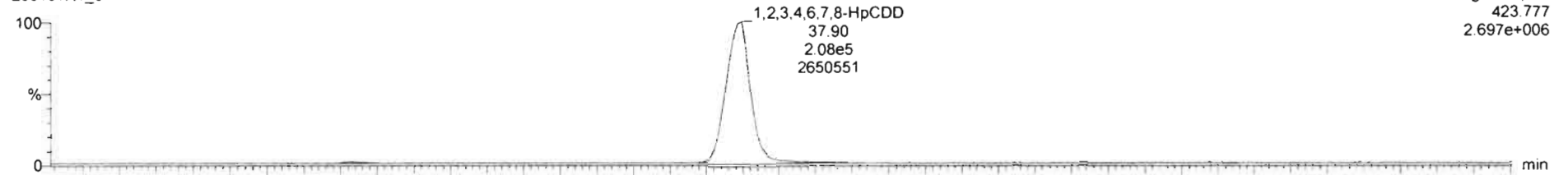
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

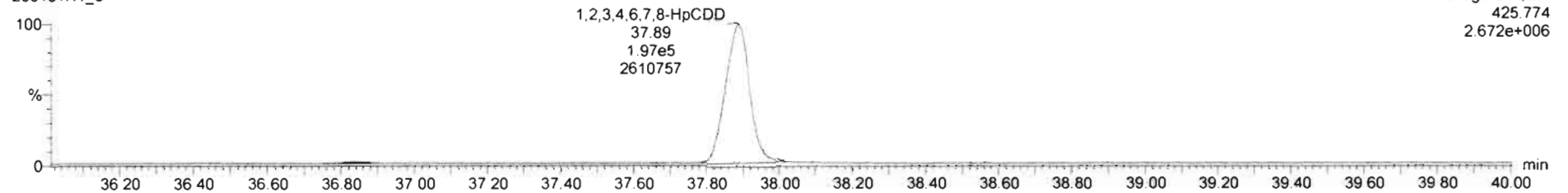
Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200131R1_8

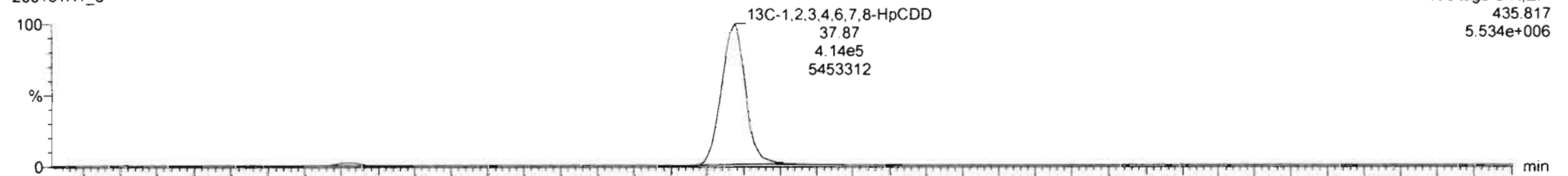


200131R1_8

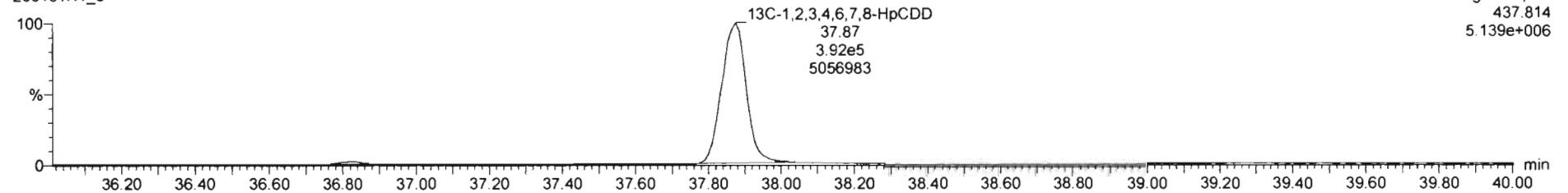


13C-1,2,3,4,6,7,8-HpCDD

200131R1_8



200131R1_8

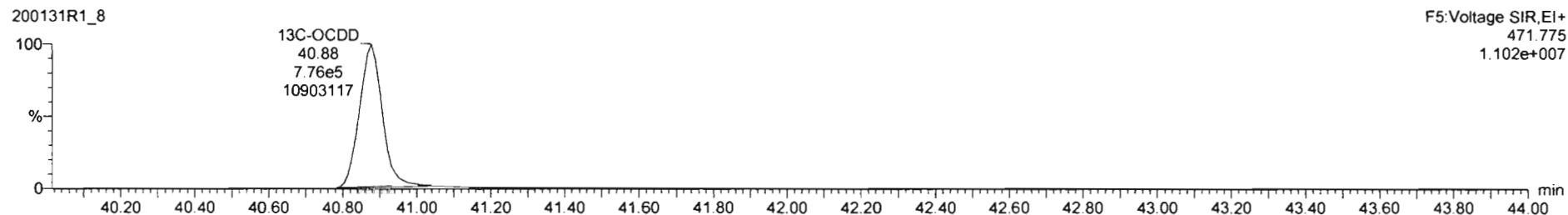
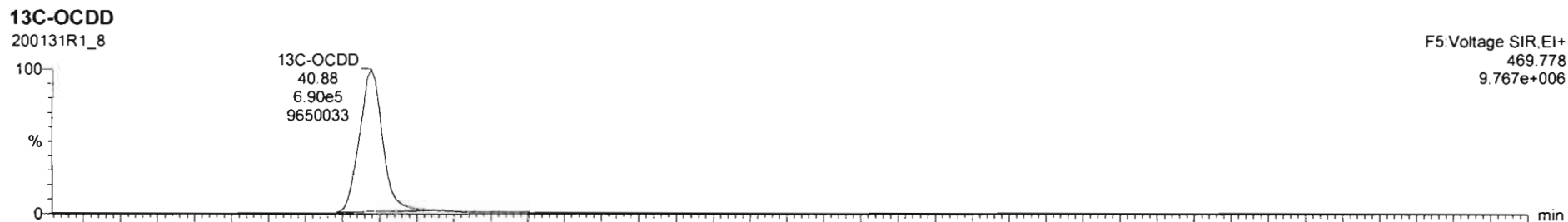
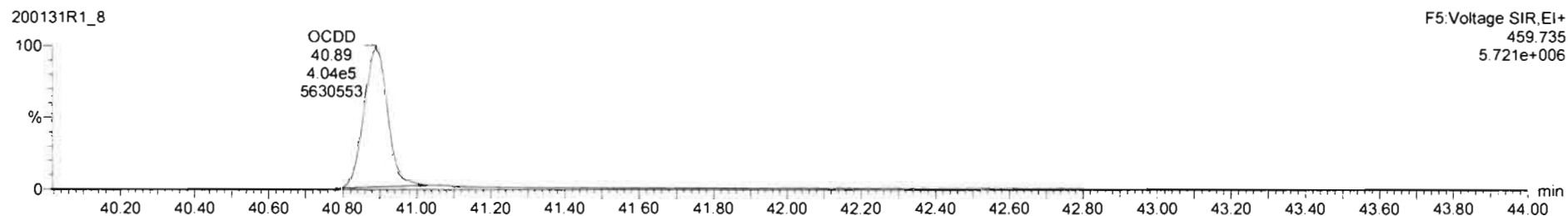
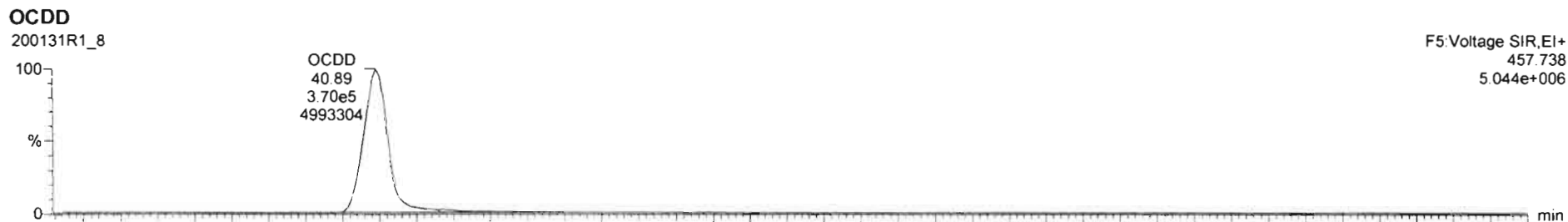


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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

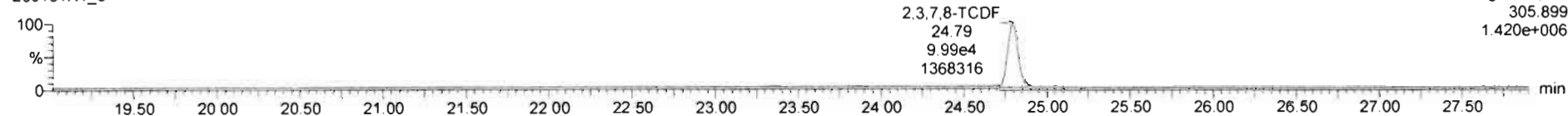
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2,3,7,8-TCDF

200131R1_8

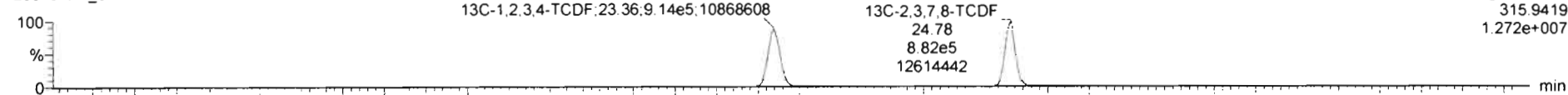


200131R1_8

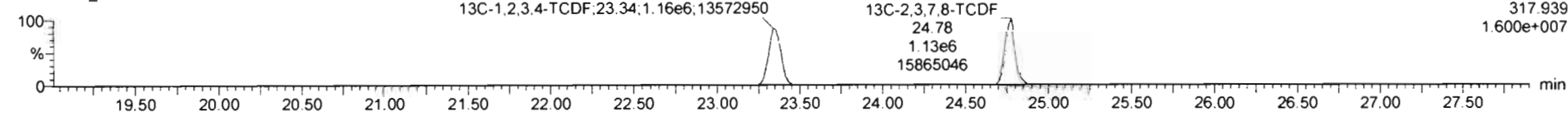


13C-2,3,7,8-TCDF

200131R1_8

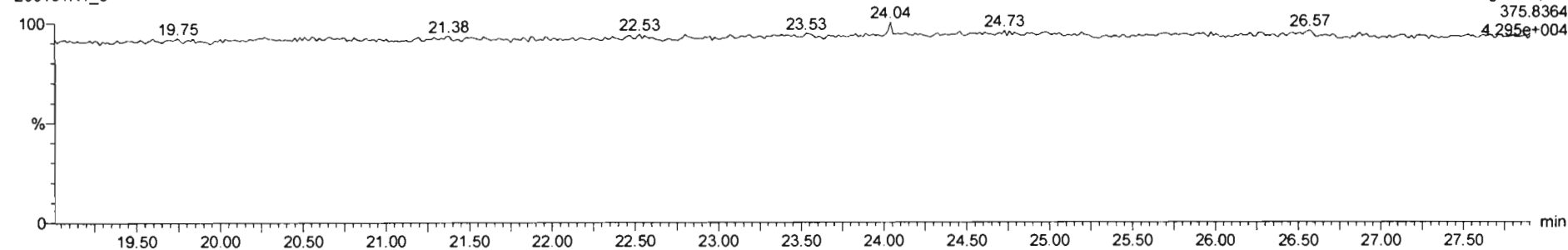


200131R1_8



DPE1

200131R1_8



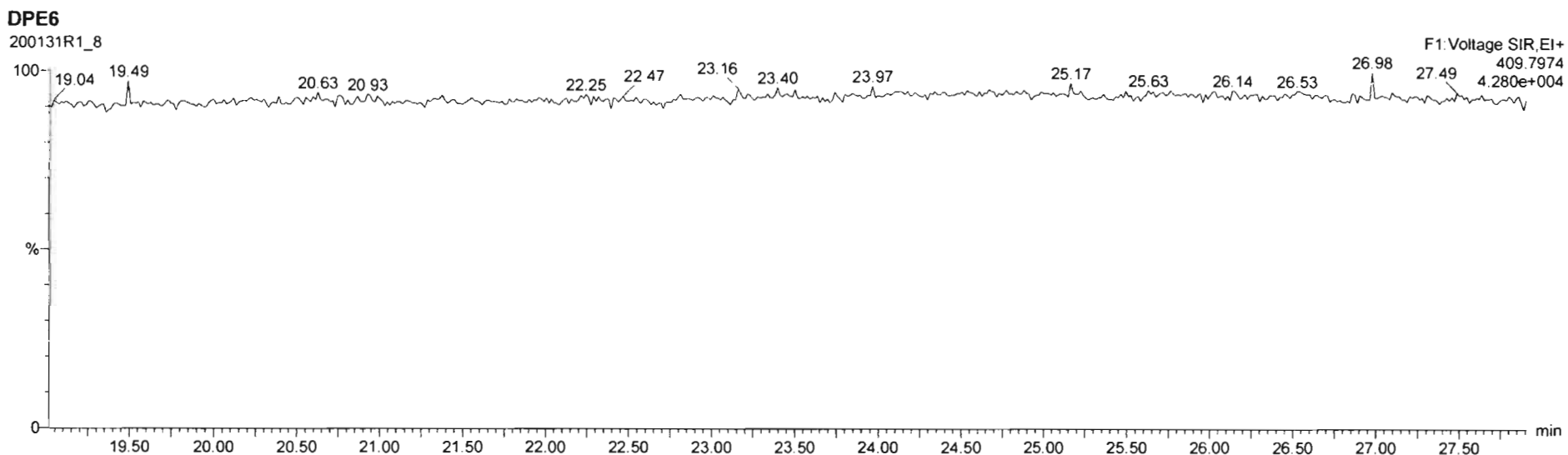
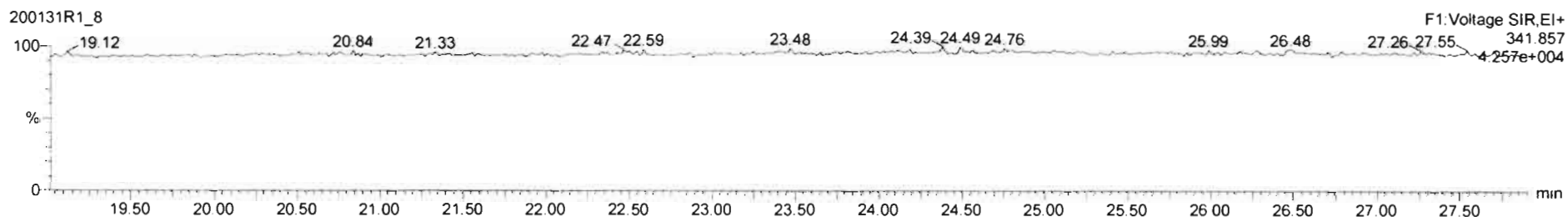
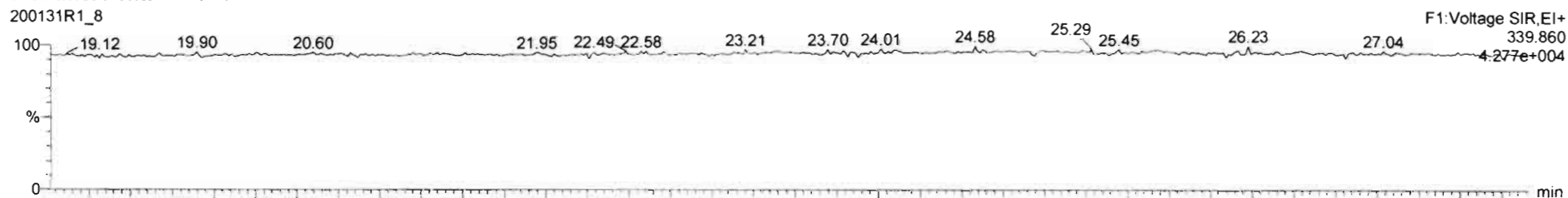
Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



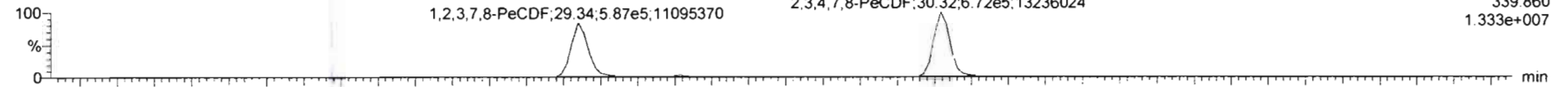
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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

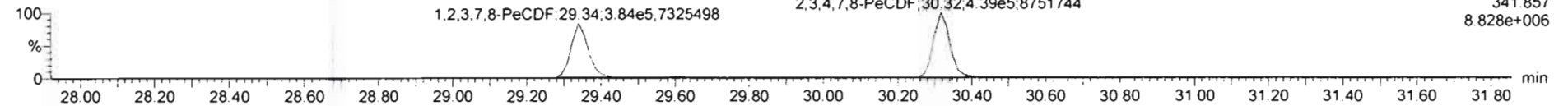
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1,2,3,7,8-PeCDF

200131R1_8

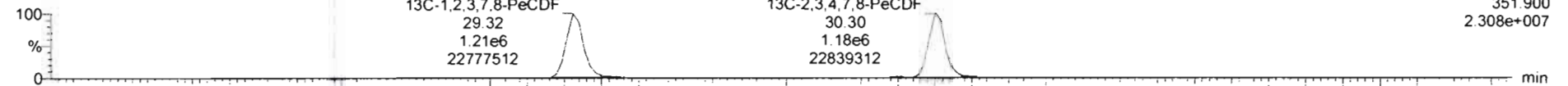


200131R1_8

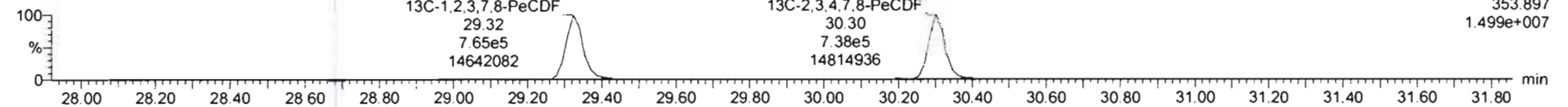


13C-1,2,3,7,8-PeCDF

200131R1_8

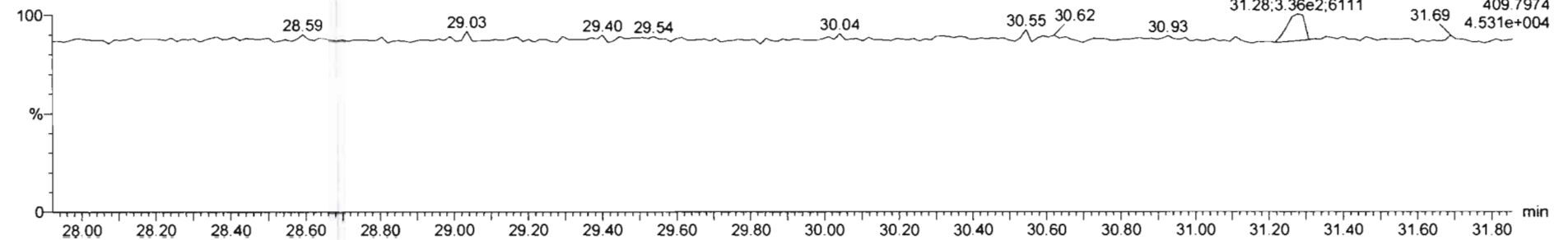


200131R1_8



DPE2

200131R1_8



Dataset: Untitled

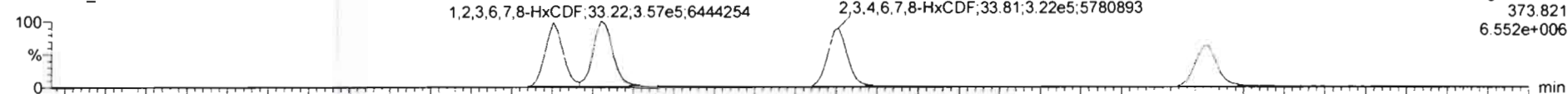
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

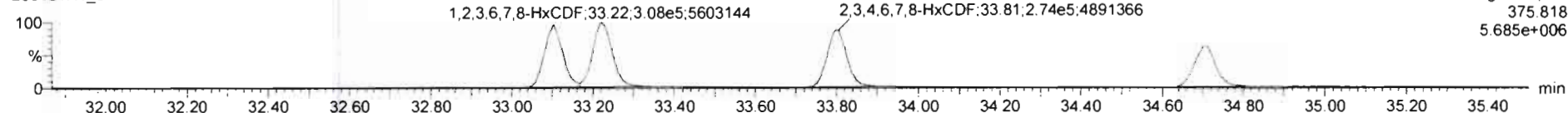
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1,2,3,4,7,8-HxCDF

200131R1_8

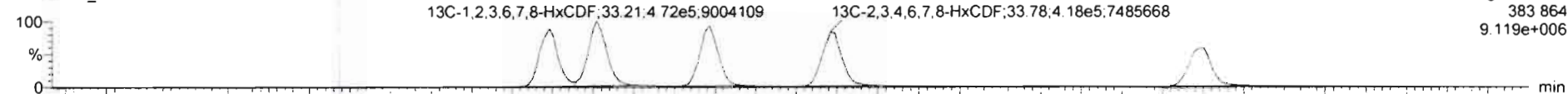


200131R1_8

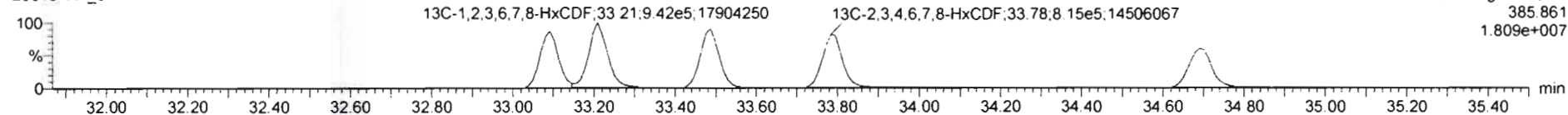


13C-1,2,3,4,7,8-HxCDF

200131R1_8

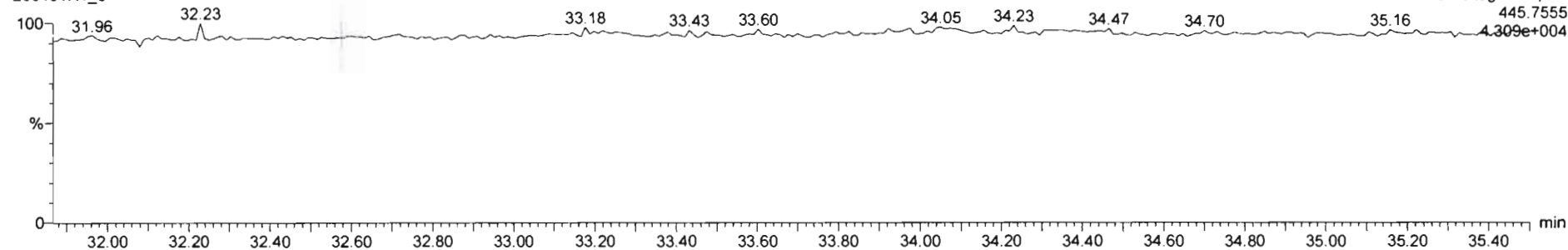


200131R1_8



DPE3

200131R1_8



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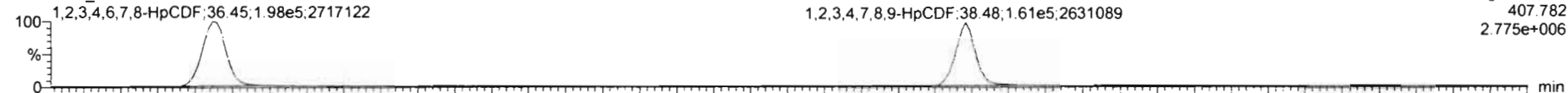
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Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

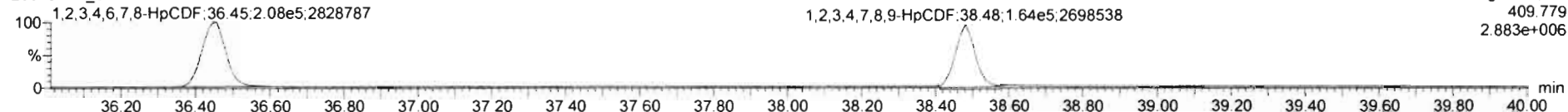
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1,2,3,4,6,7,8-HpCDF

200131R1_8

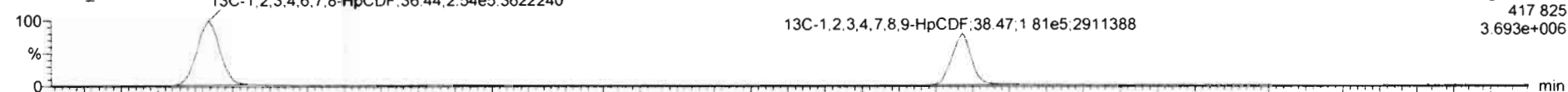


200131R1_8

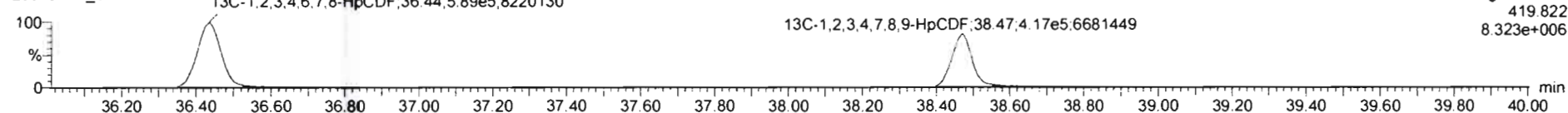


13C-1,2,3,4,6,7,8-HpCDF

200131R1_8

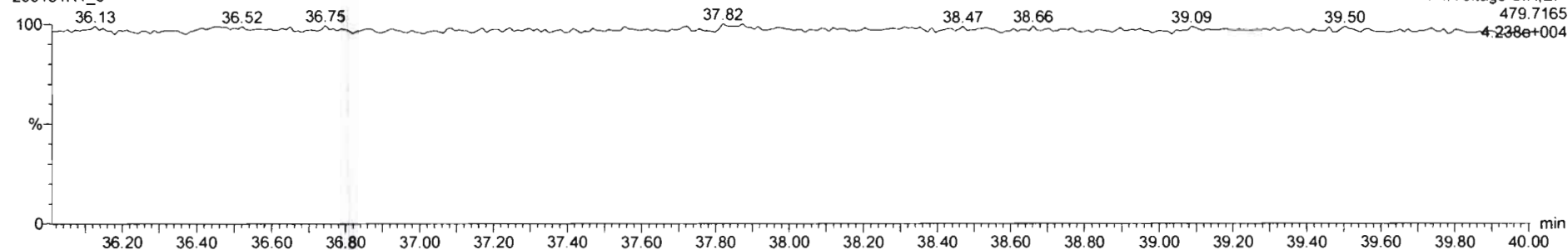


200131R1_8



DPE4

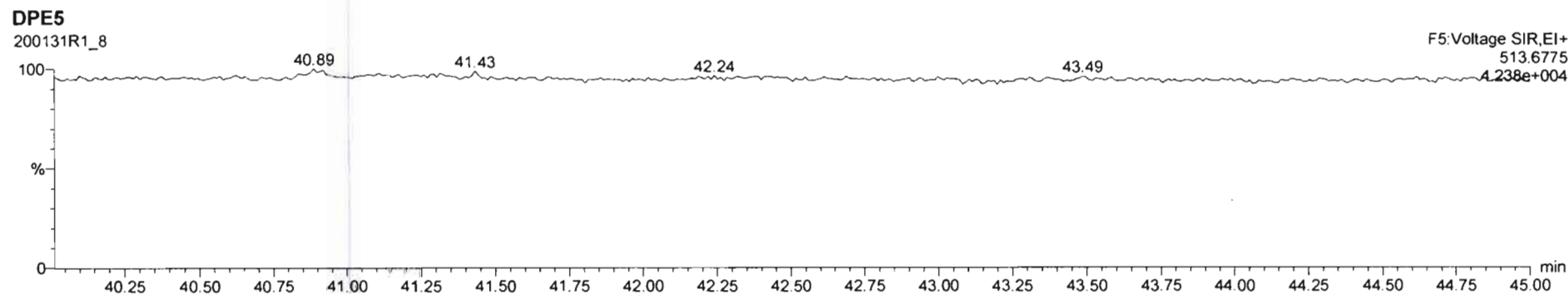
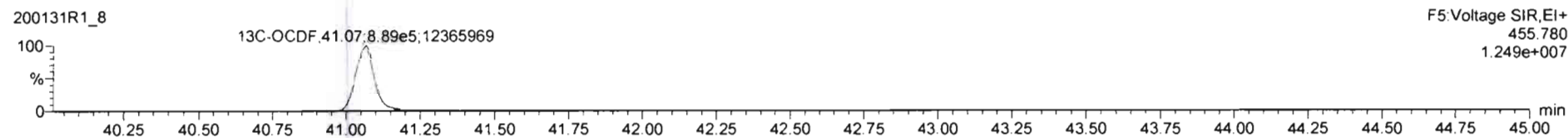
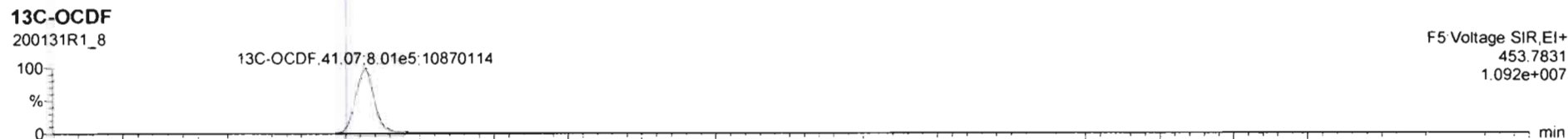
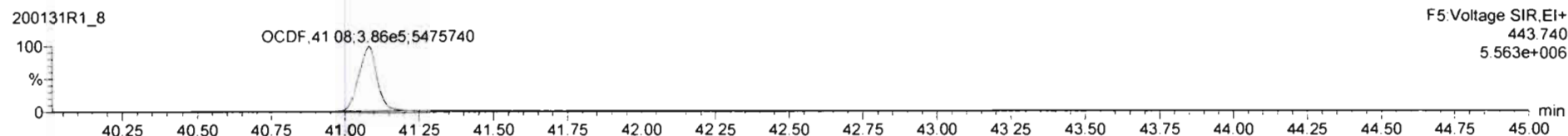
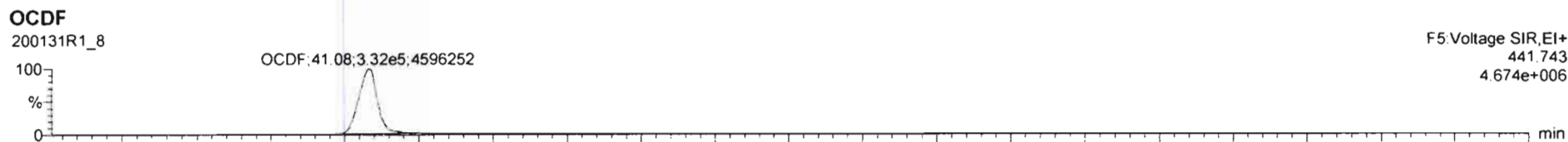
200131R1_8



Dataset: Untitled

Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time
Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

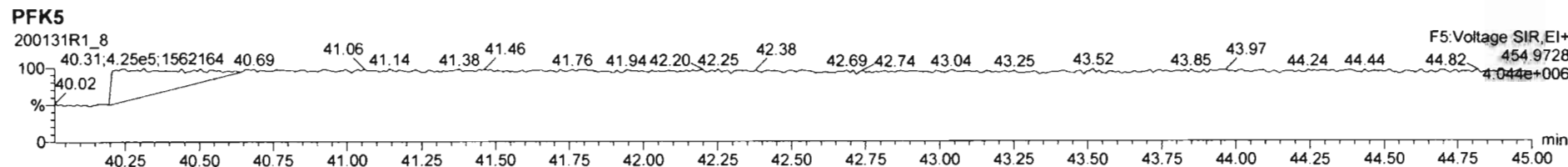
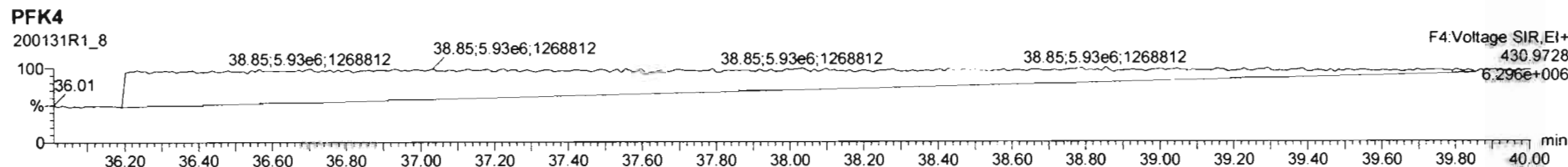
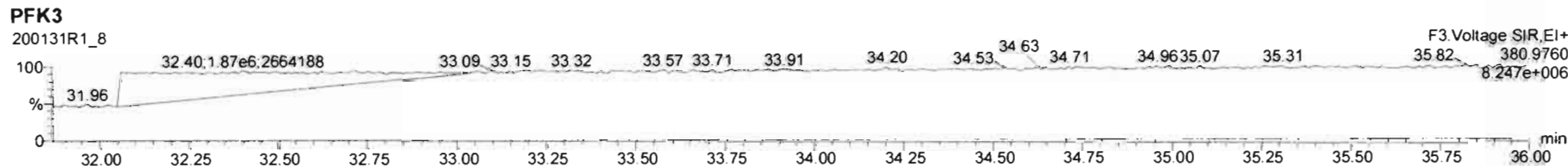
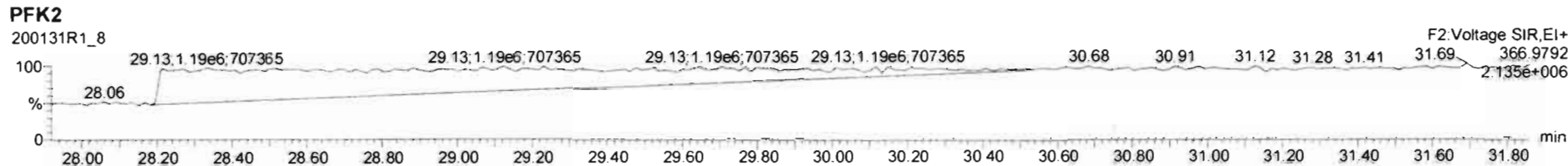
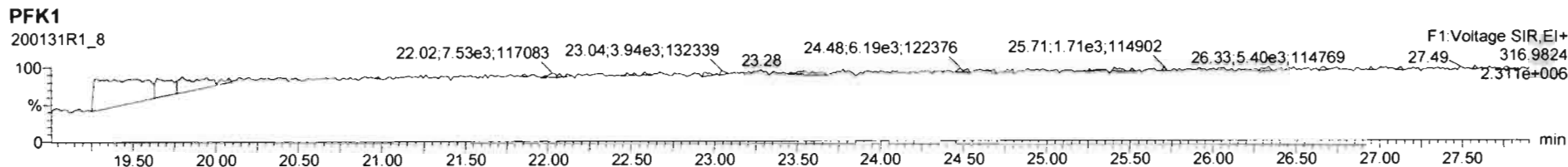


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Last Altered: Sunday, February 02, 2020 11:21:34 AM Pacific Standard Time

Printed: Sunday, February 02, 2020 11:23:53 AM Pacific Standard Time

Name: 200131R1_8, Date: 31-Jan-2020, Time: 22:18:30, ID: SS200131R1_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time
 Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

GRB 03/10/2020

CT 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49
 Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Compound name: 2,3,7,8-TCDF
 Response Factor: 0.820787
 RRF SD: 0.107593, Relative SD: 13.1085
 Response type: Internal Std (Ref 2), 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	200309R2_2	0.250	0.77	NO	16.58	1.001	4.20e3	1.63e6	0.314	25.4	1.03	MM
2	200309R2_3	0.500	0.73	NO	16.59	1.001	5.46e3	1.37e6	0.487	-2.7	0.799	MM
3	200309R2_4	2.00	0.74	NO	16.56	1.001	2.05e4	1.37e6	1.81	-9.3	0.745	bb
4	200309R2_5	10.0	0.75	NO	16.56	1.001	1.02e5	1.39e6	8.95	-10.5	0.735	bb
5	200309R2_6	40.0	0.74	NO	16.56	1.001	5.13e5	1.61e6	38.8	-3.0	0.796	bb
6	200309R2_7	300	0.76	NO	16.56	1.001	4.09e6	1.66e6	300	-0.0	0.821	bb

Compound name: 13C-2,3,7,8-TCDF
 Response Factor: 1.10088
 RRF SD: 0.097324, Relative SD: 8.84057
 Response type: Internal Std (Ref 3), 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	200309R2_2	100	0.78	NO	16.56	1.147	1.63e6	1.30e6	114	13.7	1.25	bb
2	200309R2_3	100	0.77	NO	16.56	1.147	1.37e6	1.38e6	89.9	-10.1	0.990	bb
3	200309R2_4	100	0.77	NO	16.54	1.146	1.37e6	1.38e6	90.5	-9.5	0.996	bb
4	200309R2_5	100	0.77	NO	16.54	1.147	1.39e6	1.25e6	102	1.6	1.12	bb
5	200309R2_6	100	0.77	NO	16.54	1.146	1.61e6	1.43e6	102	2.2	1.13	bb
6	200309R2_7	100	0.77	NO	16.54	1.146	1.66e6	1.48e6	102	2.0	1.12	bb

Dataset: U:\VG12.PRO\Results\200309R2\200309R2-CRV.qld

Last Altered: Tuesday, March 10, 2020 8:18:28 AM Pacific Daylight Time
 Printed: Tuesday, March 10, 2020 8:19:39 AM Pacific Daylight Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 3), 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	200309R2_2	100	0.79	NO	14.45	1.000	1.30e6	1.30e6	100	0.0	1.00	bb
2	200309R2_3	100	0.79	NO	14.45	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
3	200309R2_4	100	0.79	NO	14.44	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200309R2_5	100	0.78	NO	14.42	1.000	1.25e6	1.25e6	100	0.0	1.00	bb
5	200309R2_6	100	0.79	NO	14.44	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
6	200309R2_7	100	0.78	NO	14.44	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 11994.1

RRF SD: 1070.13, Relative SD: 8.92214

Response type: External Std, Area

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200309R2_2	100	0.77	NO	15.08	0.000	1.28e6		107	6.6	12800	bd
2	200309R2_3	100	0.78	NO	15.06	0.000	1.08e6		90.4	-9.6	10800	bd
3	200309R2_4	100	0.77	NO	15.05	0.000	1.11e6		92.2	-7.8	11100	bd
4	200309R2_5	100	0.75	NO	15.05	0.000	1.12e6		93.6	-6.4	11200	bd
5	200309R2_6	100	0.77	NO	15.05	0.000	1.28e6		107	6.5	12800	bd
6	200309R2_7	100	0.78	NO	15.05	0.000	1.33e6		111	10.8	13300	bd

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:04:02 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:04:32 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 07:53:03

Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200309R2_1	CP200309R2_1 225 CPSM	09-Mar-20	17:55:29
2	200309R2_2	ST200309R2_1 1613 CS0 19L2302	09-Mar-20	18:25:43
3	200309R2_3	ST200309R2_2 1613 CS1 19L2303	09-Mar-20	18:56:05
4	200309R2_4	ST200309R2_3 1613 CS2 19L2304	09-Mar-20	19:26:33
5	200309R2_5	ST200309R2_4 1613 CS3 19L2305	09-Mar-20	19:57:01
6	200309R2_6	ST200309R2_5 1613 CS4 19L2306	09-Mar-20	20:27:25
7	200309R2_7	ST200309R2_6 1613 CS5 19L2307	09-Mar-20	20:57:48
8	200309R2_8	SOLVENT BLANK	09-Mar-20	21:28:11
9	200309R2_9	SS200309R2_1 1613 SSS 19L2308	09-Mar-20	21:58:38
10	200309R2_10	SOLVENT BLANK	09-Mar-20	22:29:05
11	200309R2_11	1904012-10RE2 PX-S23-SB48-0203 10.92	09-Mar-20	22:59:38
12	200309R2_12	2000301-01RE2 PDI-077SC-A-02-03-191014 ...	09-Mar-20	23:29:57
13	200309R2_13	B0B0291-DUP1 Duplicate 18.51	10-Mar-20	00:00:21
14	200309R2_14	2000407-01RE1 PDI-084SC-A-05-06-191002 ...	10-Mar-20	00:30:51
15	200309R2_15	2000407-02RE1 PDI-084SC-A-06-07-191002 ...	10-Mar-20	01:01:18
16	200309R2_16	2000407-03RE1 PDI-084SC-A-07-08-191002 ...	10-Mar-20	01:31:45
17	200309R2_17	2000407-04RE1 PDI-084SC-A-08-09-191002 ...	10-Mar-20	02:02:13
18	200309R2_18	2000407-05RE1 PDI-084SC-A-09-10-191002 ...	10-Mar-20	02:32:40
19	200309R2_19	2000407-06RE1 PDI-084SC-A-10-11-191002 ...	10-Mar-20	03:03:07
20	200309R2_20	2000407-07RE1 PDI-084SC-A-11-12-191002 ...	10-Mar-20	03:33:35

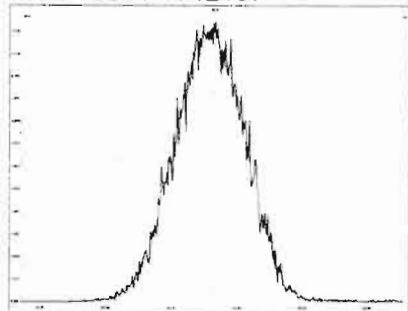
Experiment Calibration Report

MassLynx 4.1 SCN815

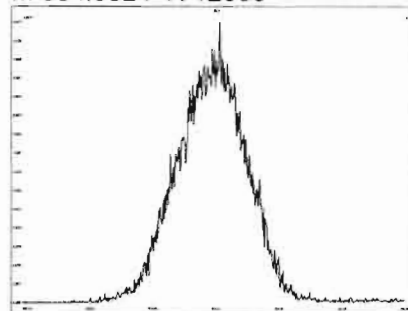
File: Experiment: tcdf_db225.exp Reference: pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, March 09, 2020 17:53:48 Pacific Daylight Time

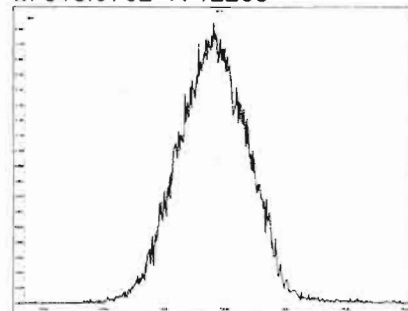
M 292.9824 R 12197



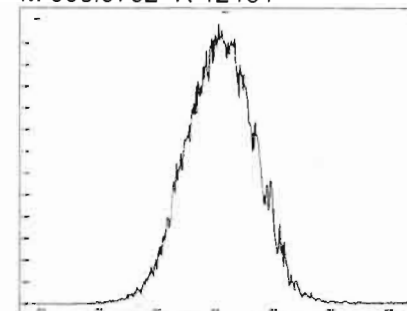
M 304.9824 R 12886



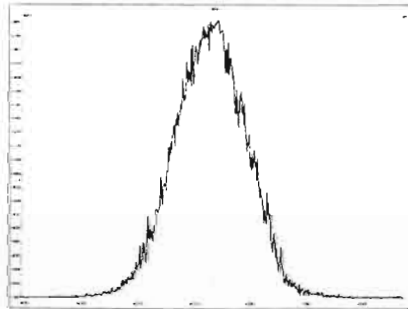
M 318.9792 R 12258



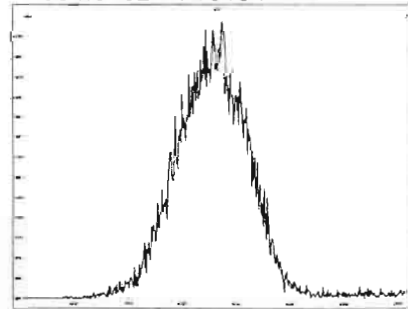
M 330.9792 R 12131



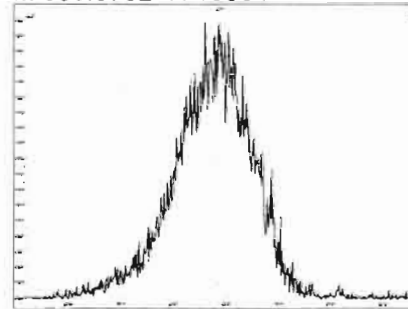
M 342.9792 R 11960



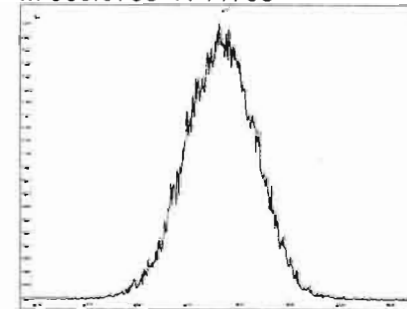
M 354.9792 R 13154



M 366.9792 R 10504



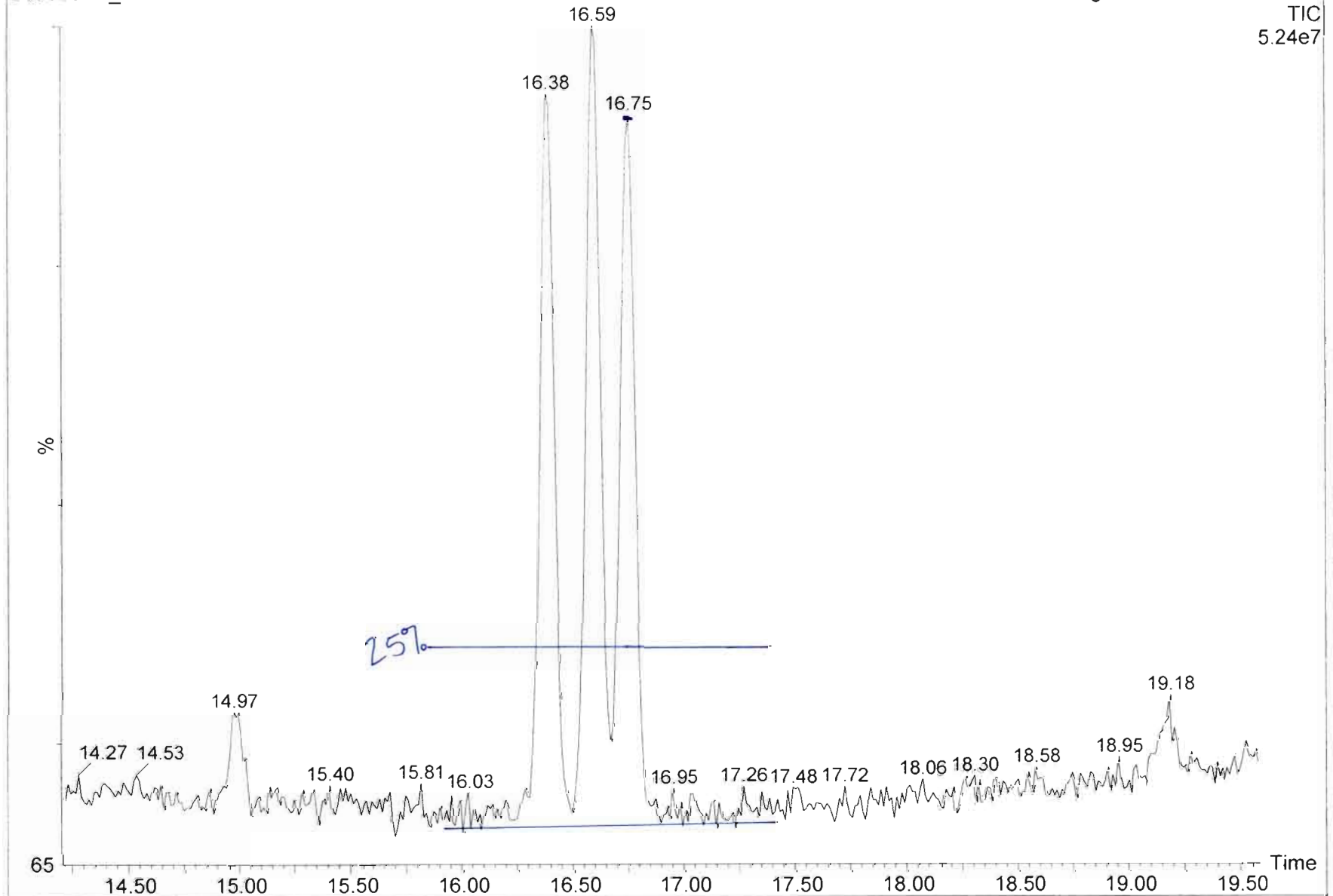
M 380.9760 R 11795



GRB 03/10/2020

225 CPSM
200309R2_1

Voltage SIR 12 Channels EI+
TIC
5.24e7



Dataset: Untitled

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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

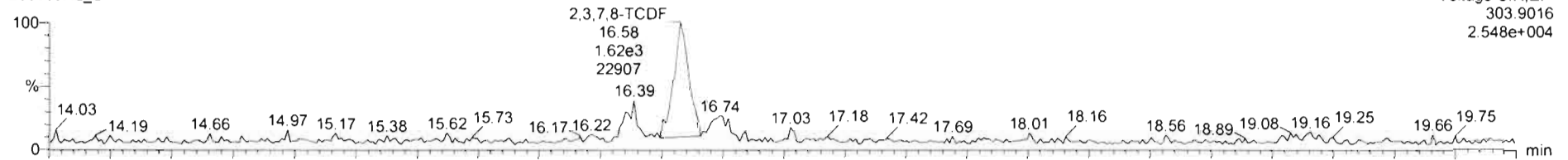
Method: U:\VG11.PRO\MethDB\tcdf.mdb 31 Jan 2020 08:42:36

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

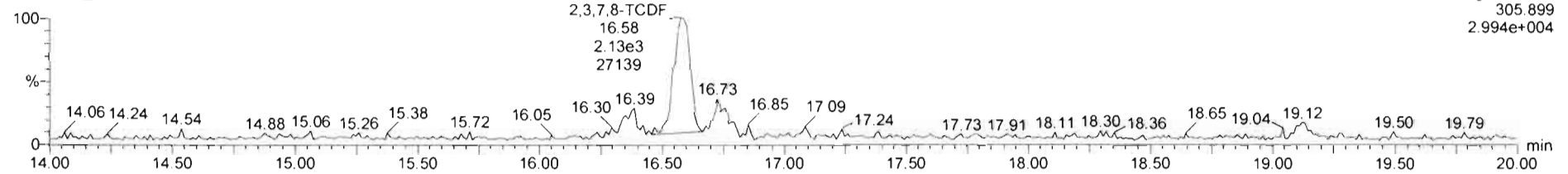
Name: 200309R2_2, Date: 09-Mar-2020, Time: 18:25:43, ID: ST200309R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200309R2_2

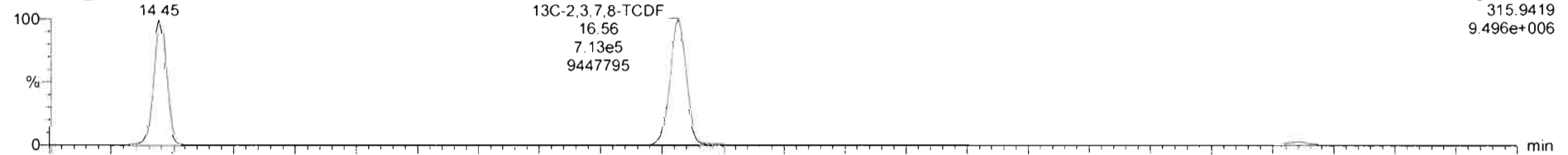


200309R2_2

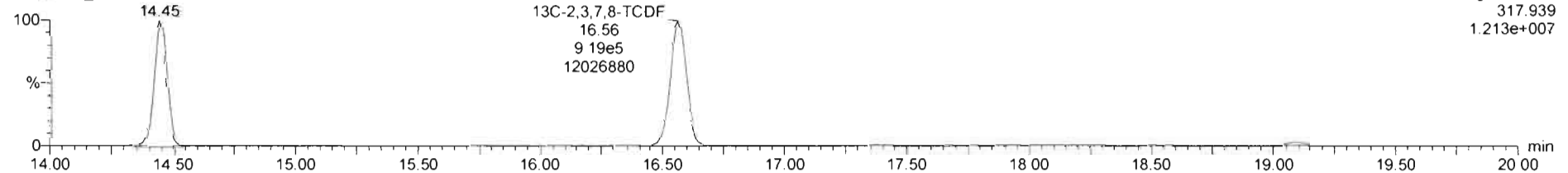


13C-2,3,7,8-TCDF

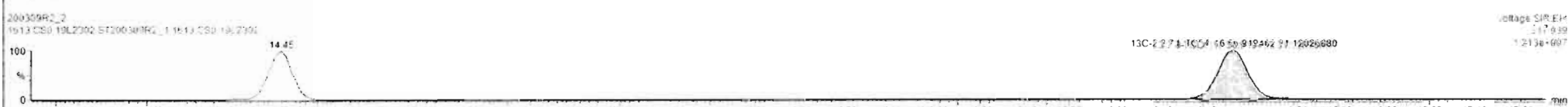
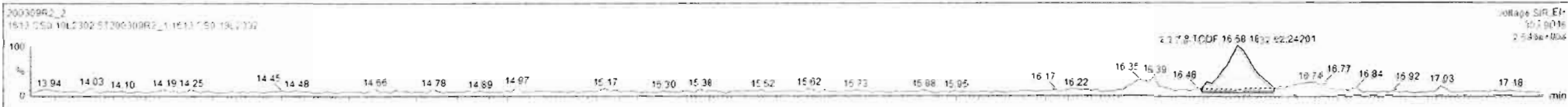
200309R2_2



200309R2_2



#	Name	RT	RA	Yln	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDF	16.58	0.774	NO	4.2011e3	1.6321e6	0.250	24.2	13.0	6.829	0.107
2	1,3C-2,3,7,8-TCDF	16.58	0.775	NO	1.6321e5	1.3038e6	100.000	12.7	2.84	1.10	0.0973
3	1,3C-1,2,3,4-TCDF	14.45	0.787	NO	1.3038e6	1.3038e6	100.000	6.0	0.000	1.00	0.000
4	1,3C-1,2,3,4-TCDD	15.08	0.790	NO	1.2780e6		100.000	6.8	8.92	12000	1070
5	PFK1						1.000				
6	DPE1						1.000				



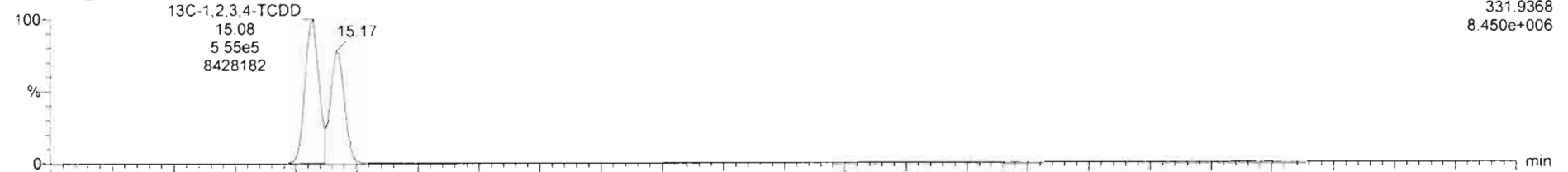
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

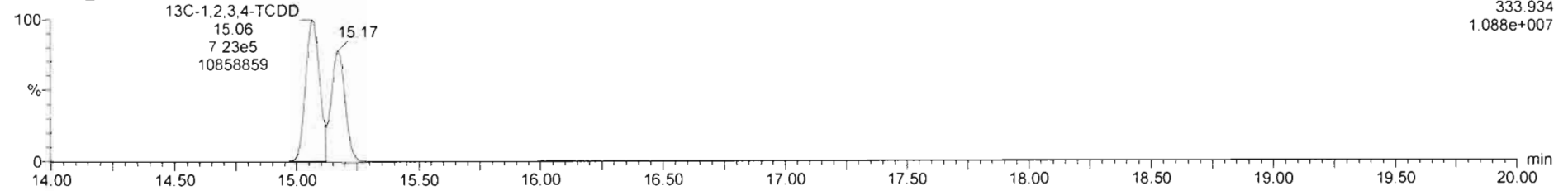
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13C-1,2,3,4-TCDD

200309R2_2

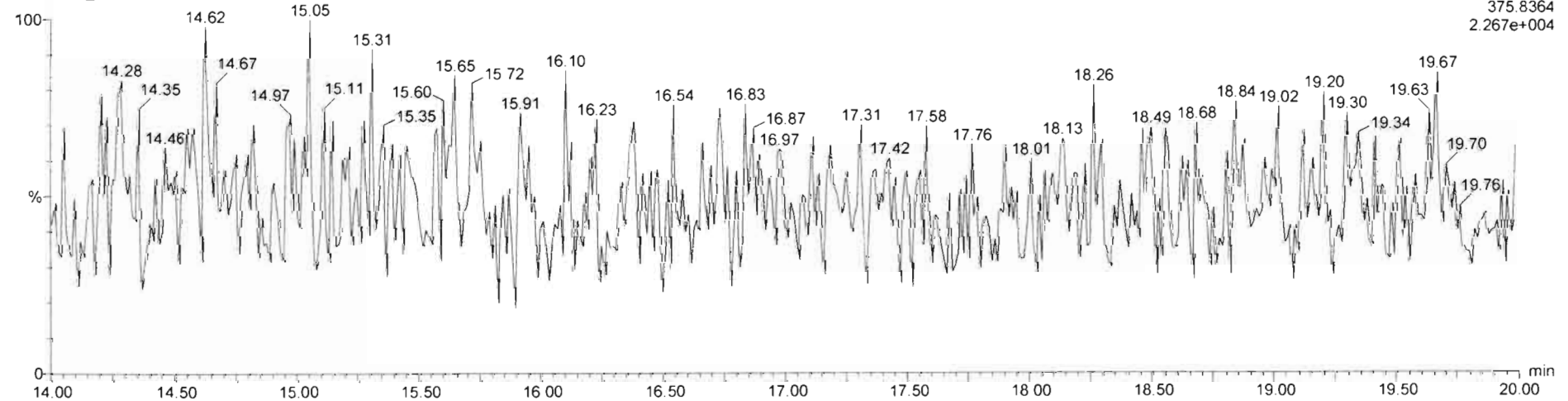


200309R2_2



DPE1

200309R2_2



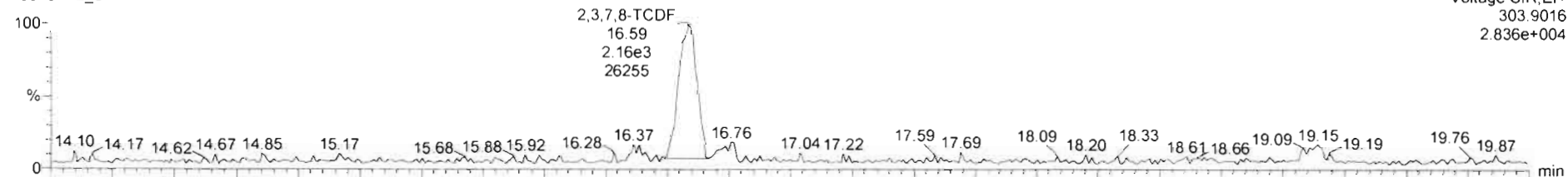
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

Name: 200309R2_3, Date: 09-Mar-2020, Time: 18:56:05, ID: ST200309R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

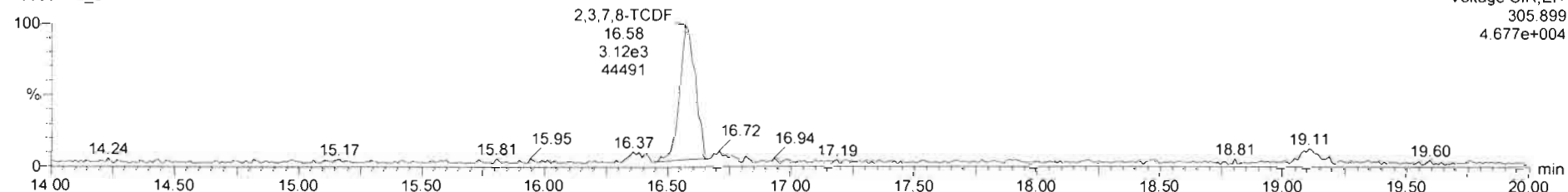
2,3,7,8-TCDF

200309R2_3



Voltage SIR, EI+
303.9016
2.836e+004

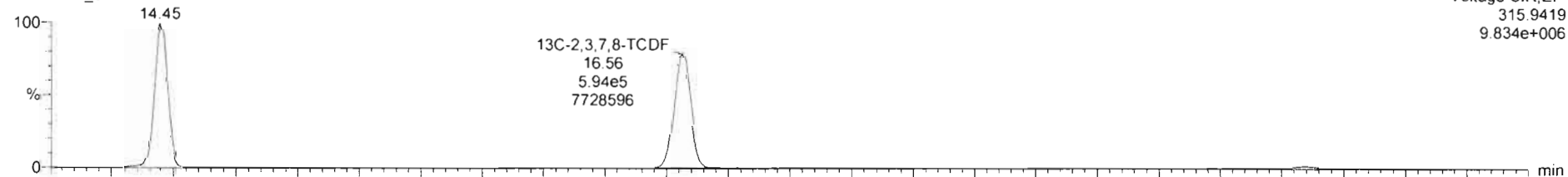
200309R2_3



Voltage SIR, EI+
305.899
4.677e+004

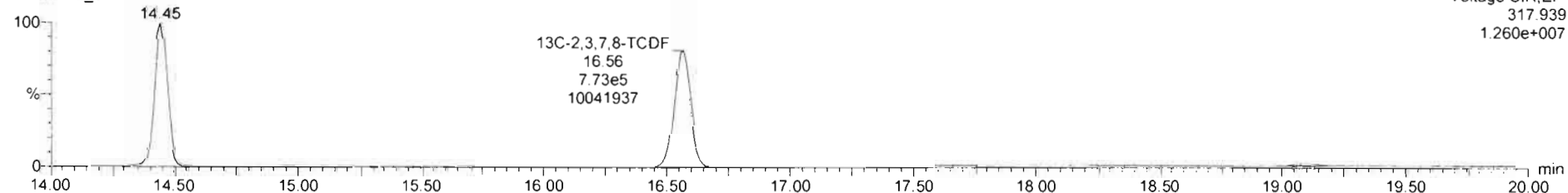
13C-2,3,7,8-TCDF

200309R2_3



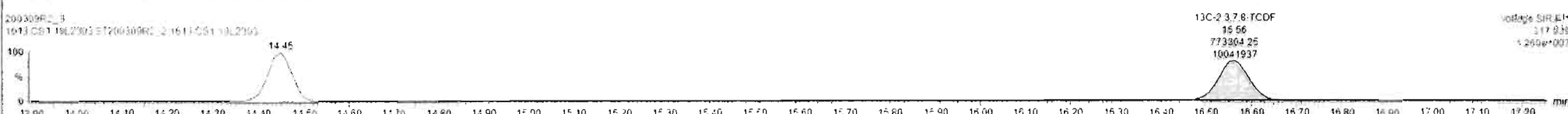
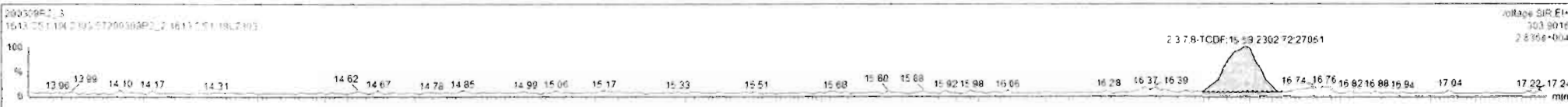
Voltage SIR, EI+
315.9419
9.834e+006

200309R2_3



Voltage SIR, EI+
317.939
1.260e+007

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDF	16.56	0.729	NO	5.4614e3	1.3676e6	0.500	-2.7	13.1	0.021	0.109
2	13C-2,3,7,8-TCDF	16.56	0.768	NO	1.3676e6	1.3812e6	100.000	-10.1	2.84	1.10	0.0973
3	13C-1,2,3,4-TCDF	14.45	0.781	NO	1.3812e6	1.3812e6	100.000	0.0	0.000	1.00	0.000
4	13C-1,2,3,4-TCDD	15.96	0.777	NO	1.0641e6		100.000	-9.6	8.92	12000	1070
5	DPK1						1.000				
6	DPS1						1.000				



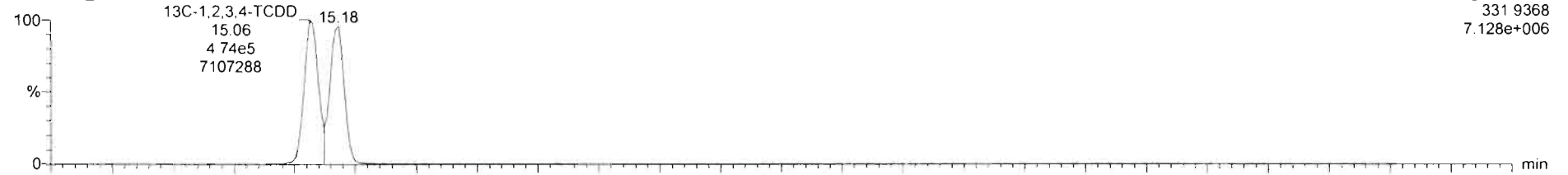
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

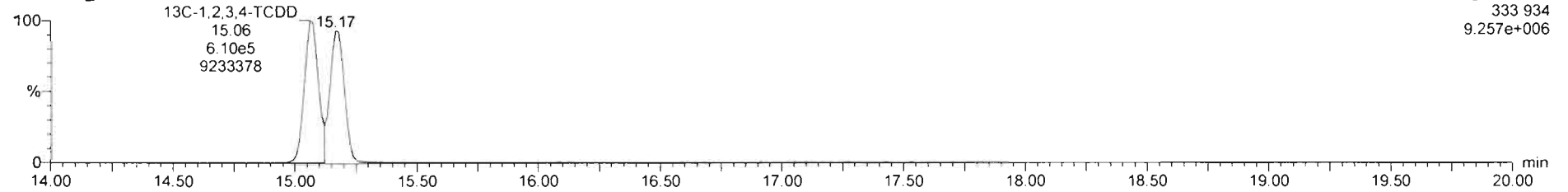
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13C-1,2,3,4-TCDD

200309R2_3

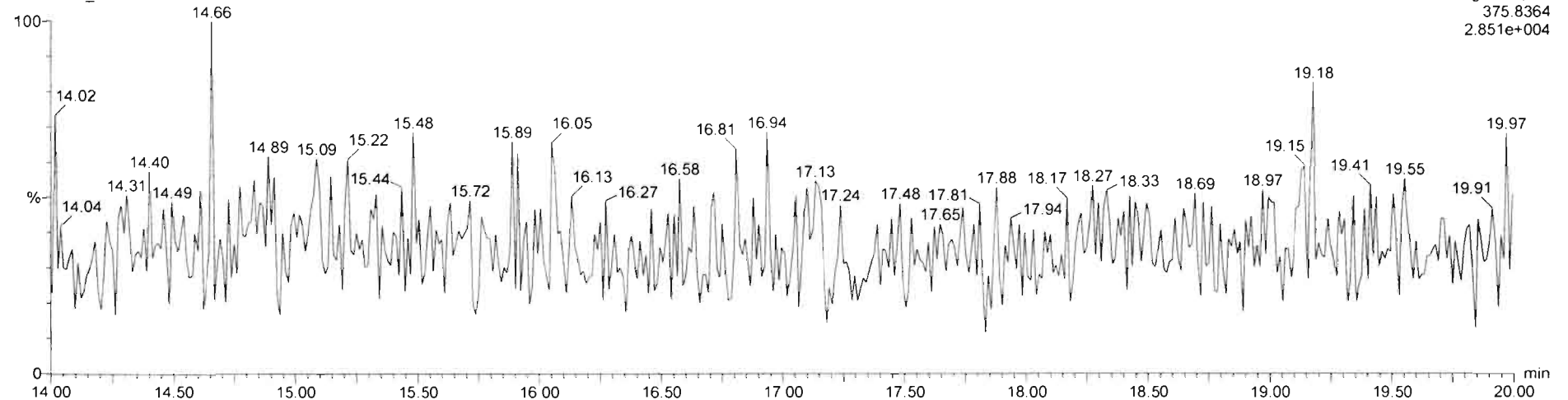


200309R2_3



DPE1

200309R2_3



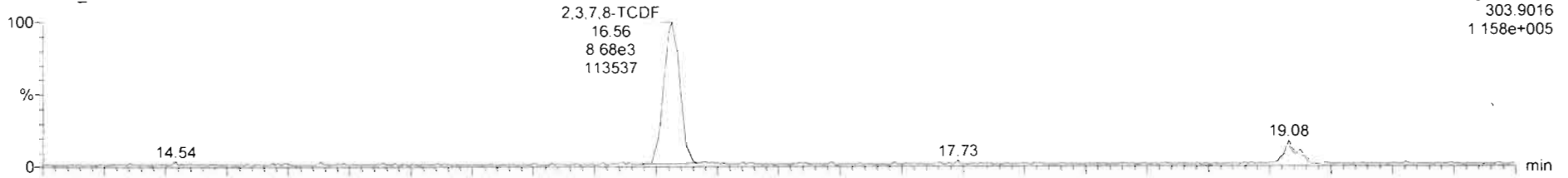
Dataset: Untitled

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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

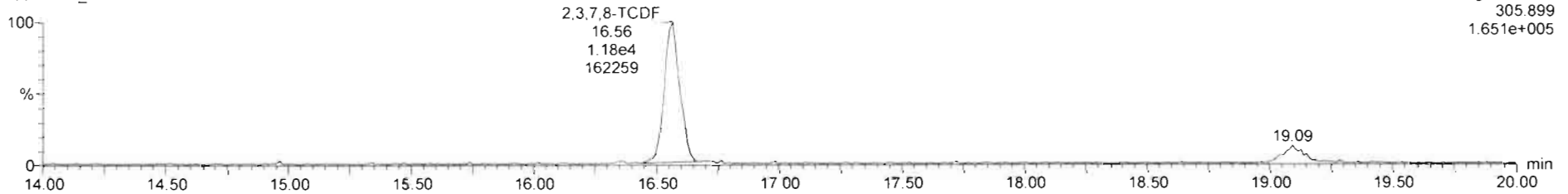
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2,3,7,8-TCDF

200309R2_4

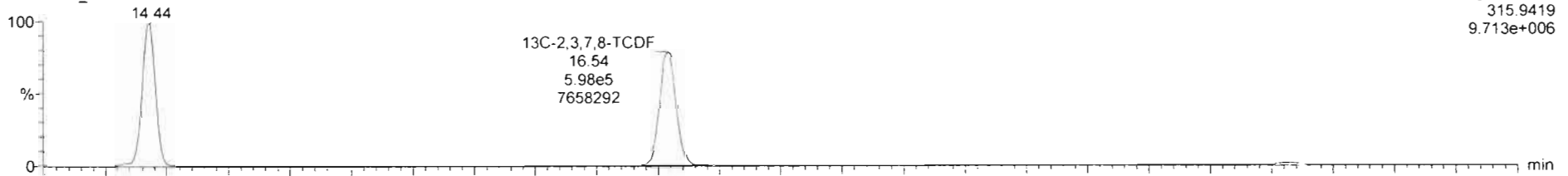


200309R2_4

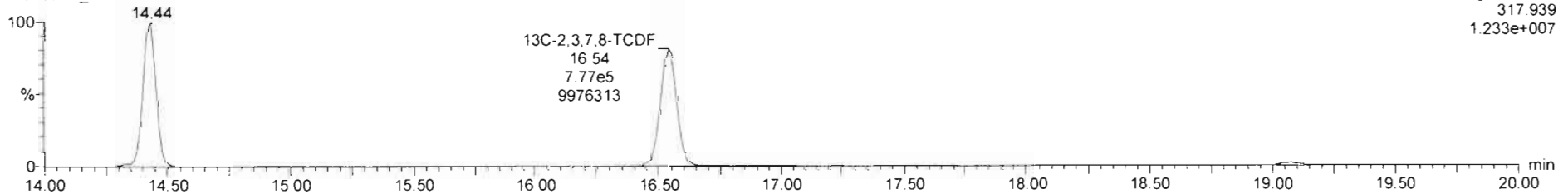


13C-2,3,7,8-TCDF

200309R2_4



200309R2_4



Dataset: Untitled

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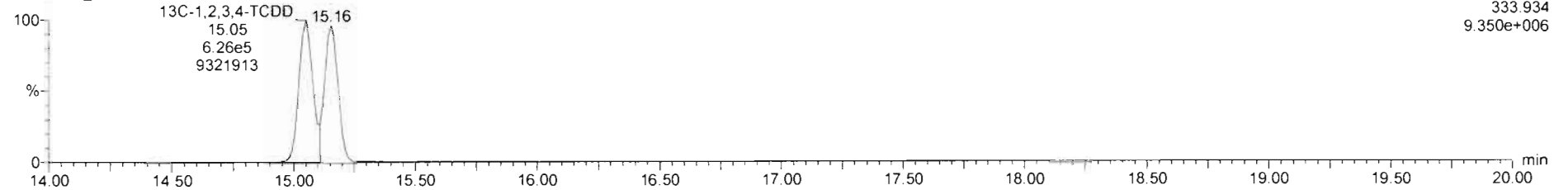
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13C-1,2,3,4-TCDD

200309R2_4

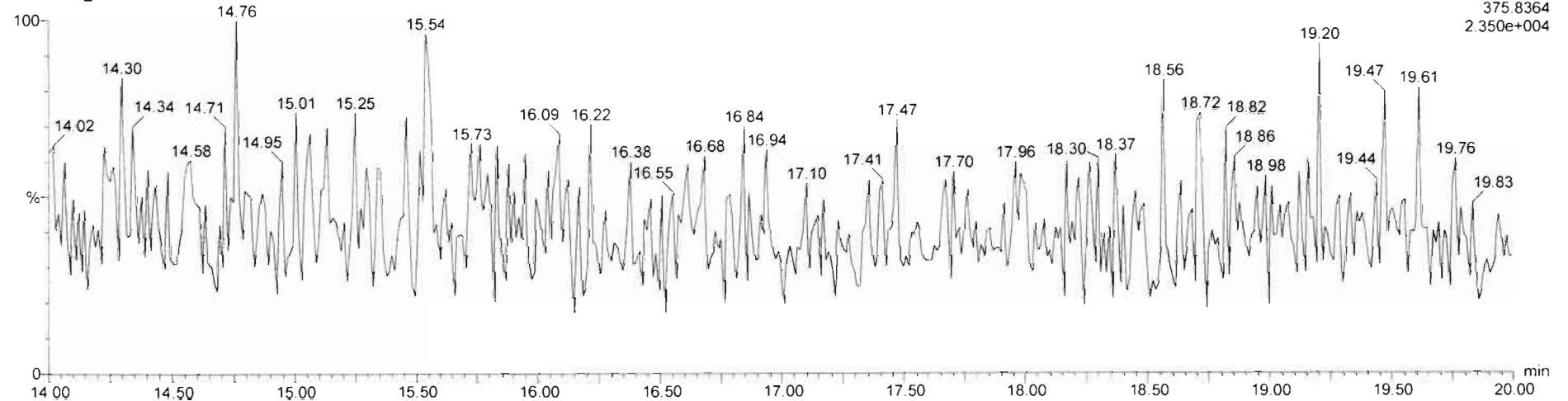


200309R2_4



DPE1

200309R2_4



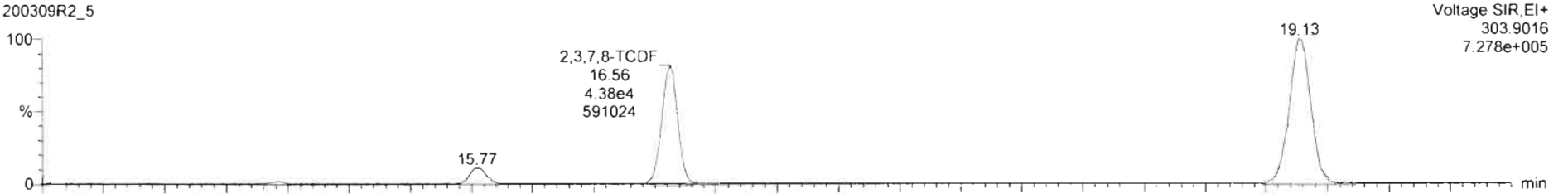
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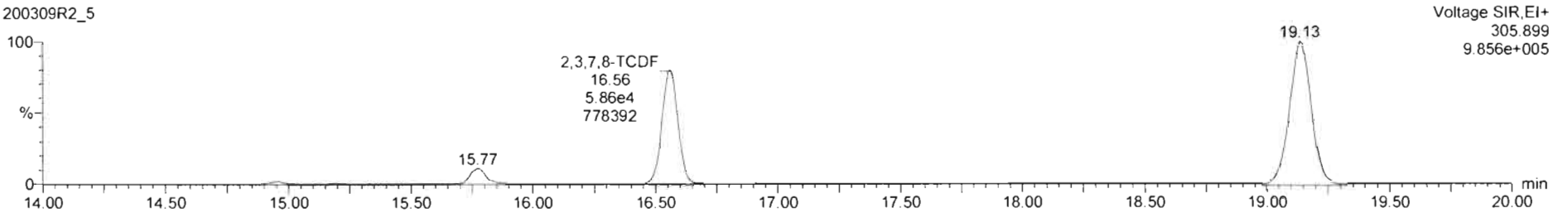
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2,3,7,8-TCDF

200309R2_5

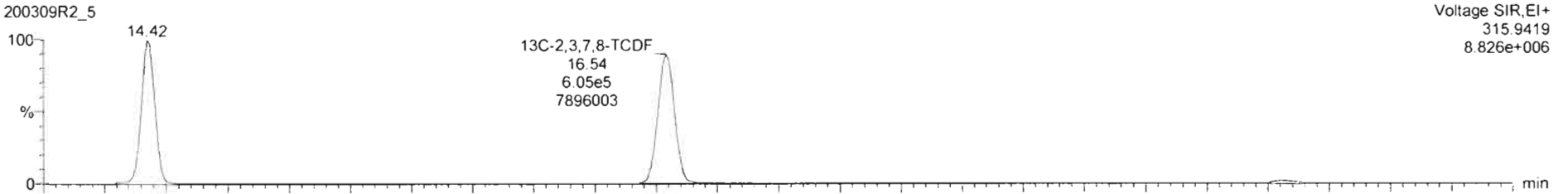


200309R2_5

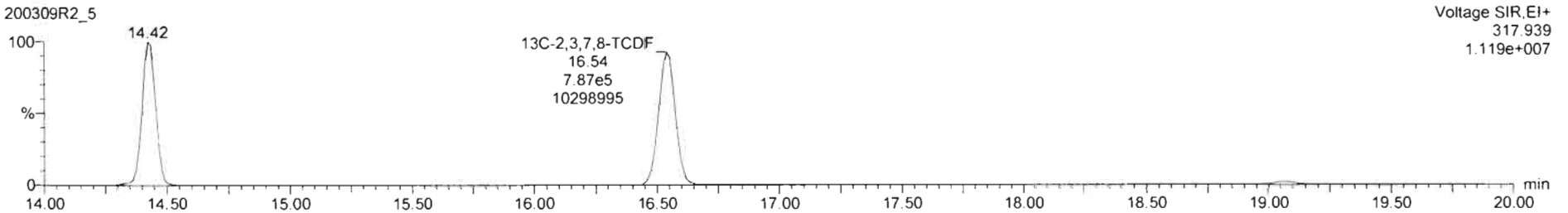


13C-2,3,7,8-TCDF

200309R2_5



200309R2_5



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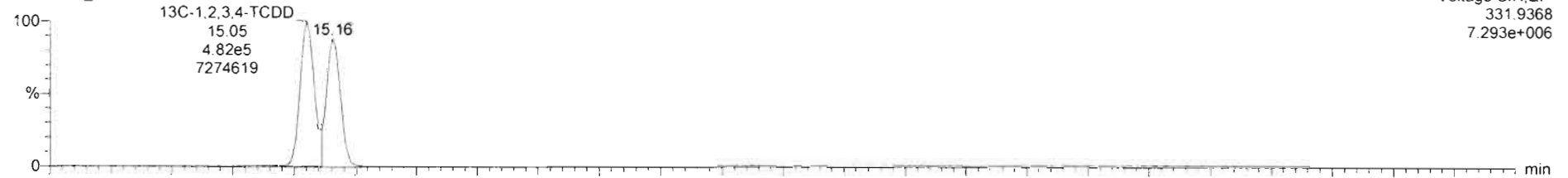
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

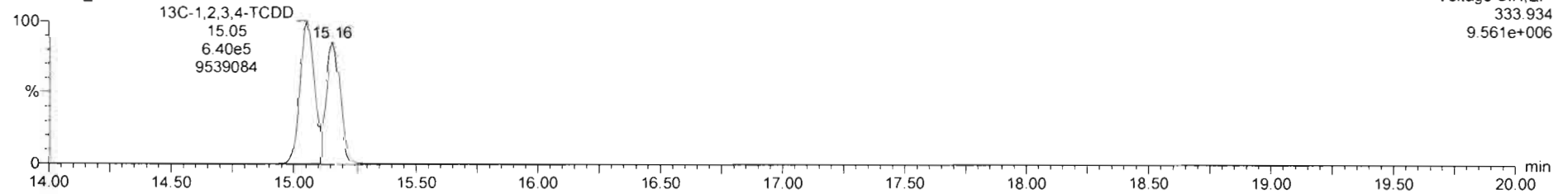
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13C-1,2,3,4-TCDD

200309R2_5

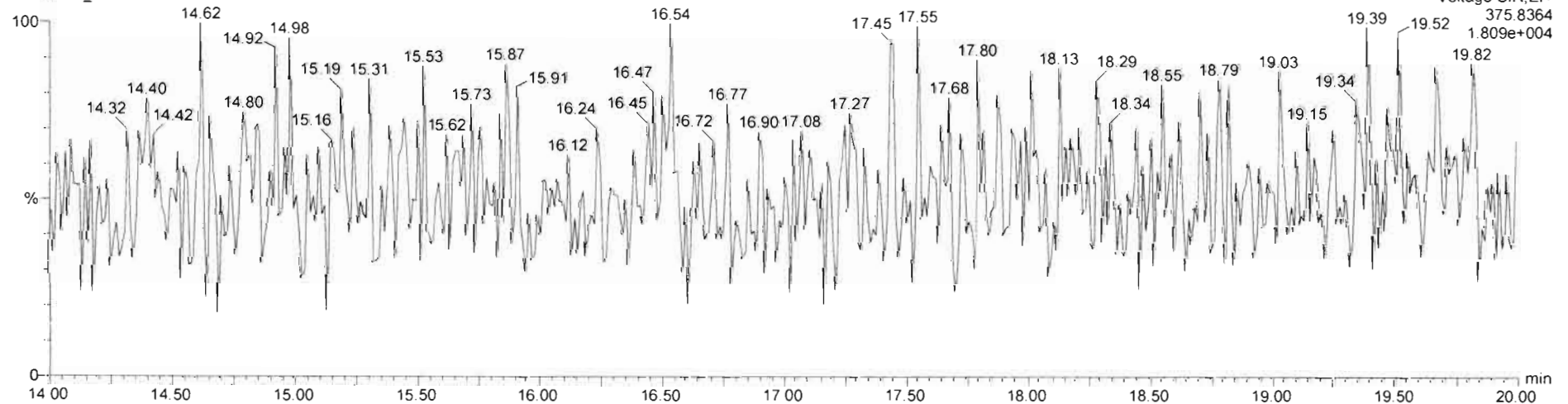


200309R2_5



DPE1

200309R2_5



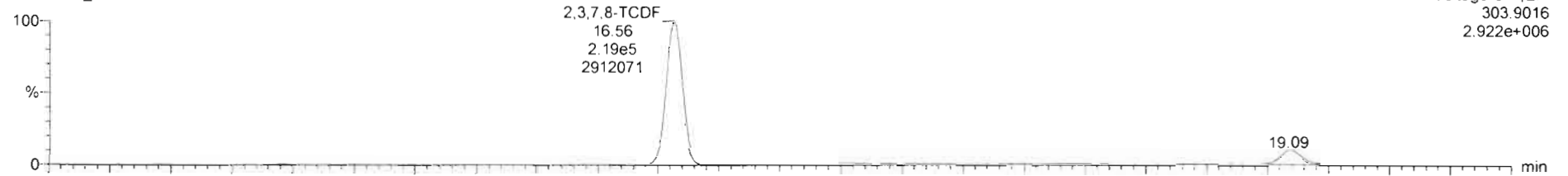
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

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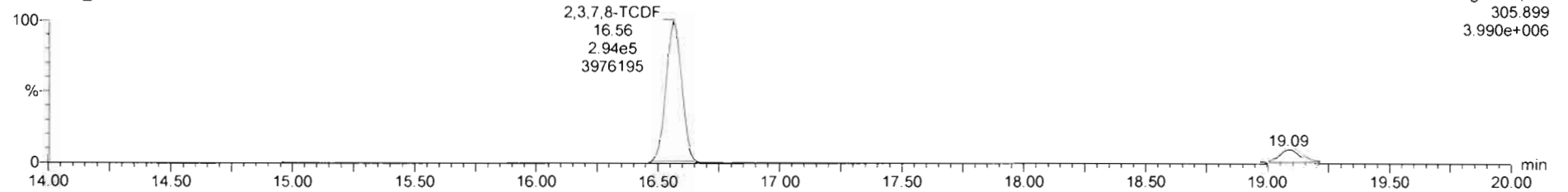
2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
303.9016
2.922e+006

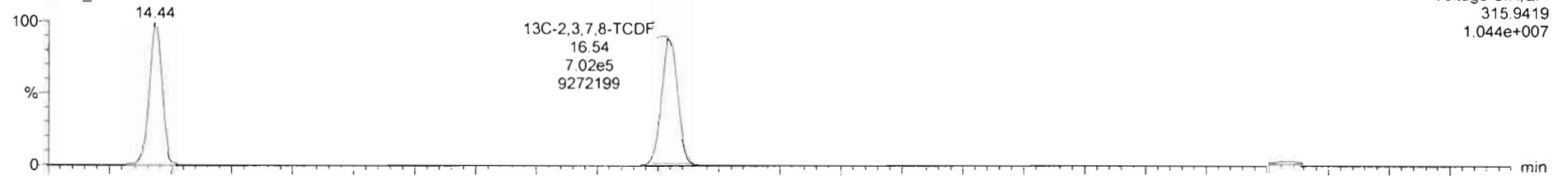
200309R2_6



Voltage SIR,EI+
305.899
3.990e+006

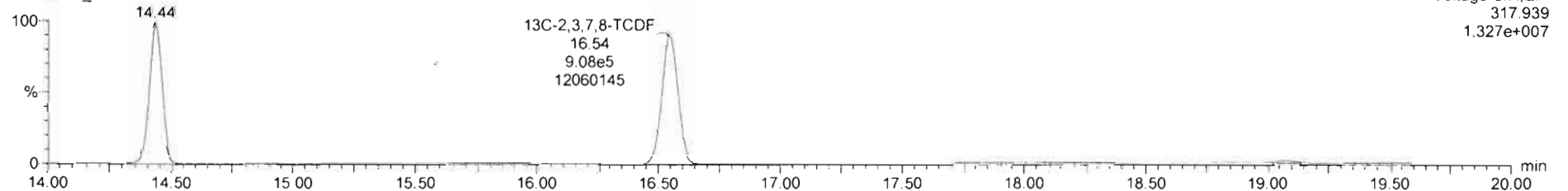
13C-2,3,7,8-TCDF

200309R2_6



Voltage SIR,EI+
315.9419
1.044e+007

200309R2_6



Voltage SIR,EI+
317.939
1.327e+007

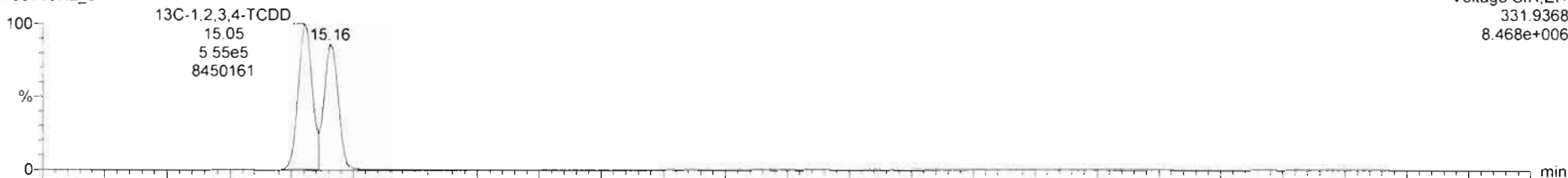
Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

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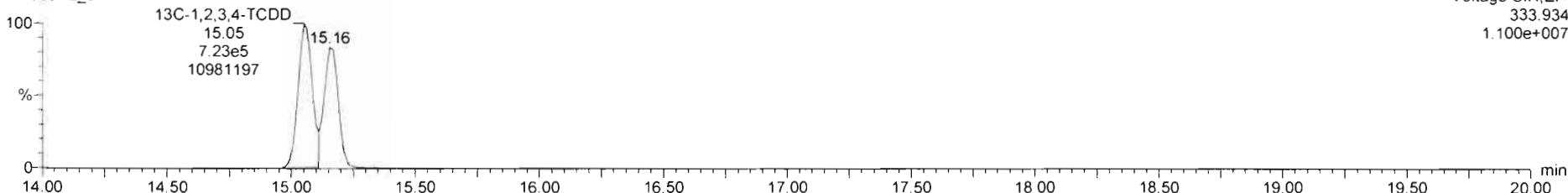
13C-1,2,3,4-TCDD

200309R2_6



Voltage SIR_EI+
331.9368
8.468e+006

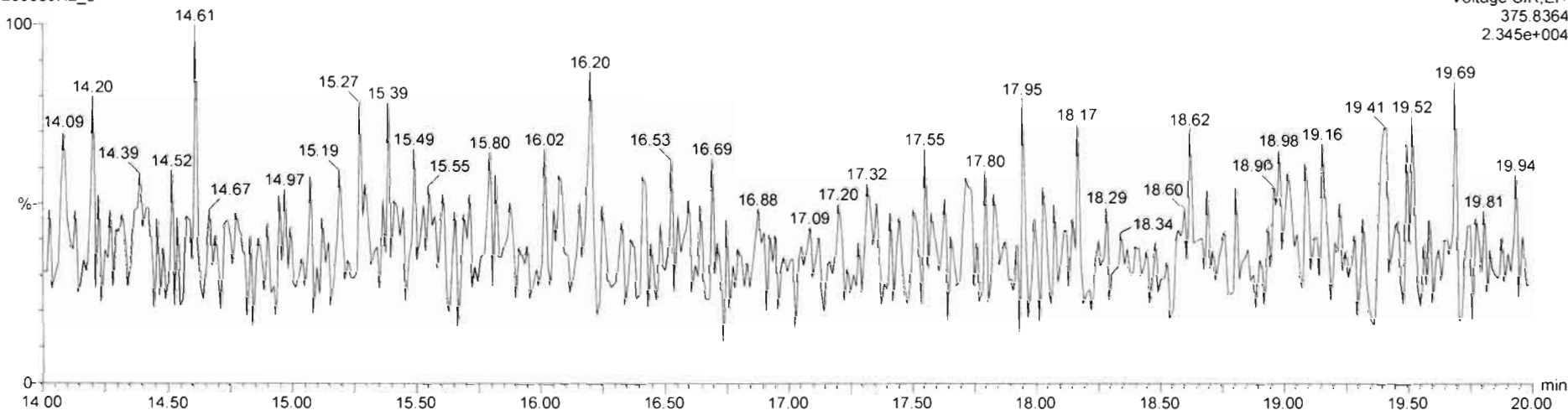
200309R2_6



Voltage SIR_EI+
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1.100e+007

DPE1

200309R2_6



Voltage SIR_EI+
375.8364
2.345e+004

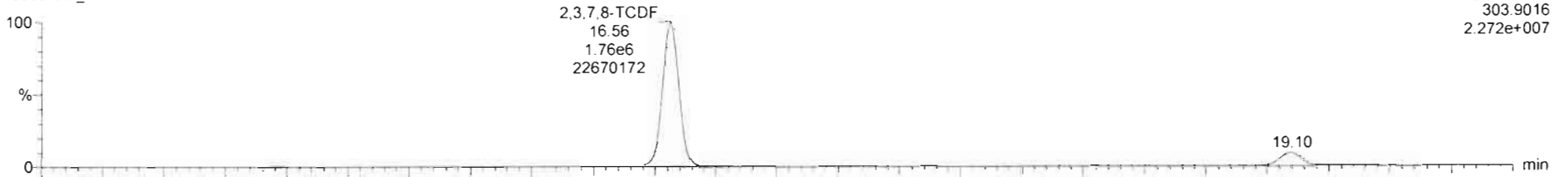
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Last Altered: Tuesday, March 10, 2020 7:38:35 AM Pacific Daylight Time
Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

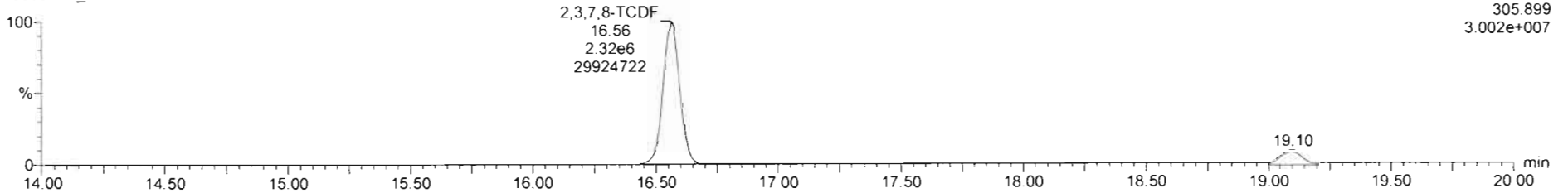
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2,3,7,8-TCDF

200309R2_7

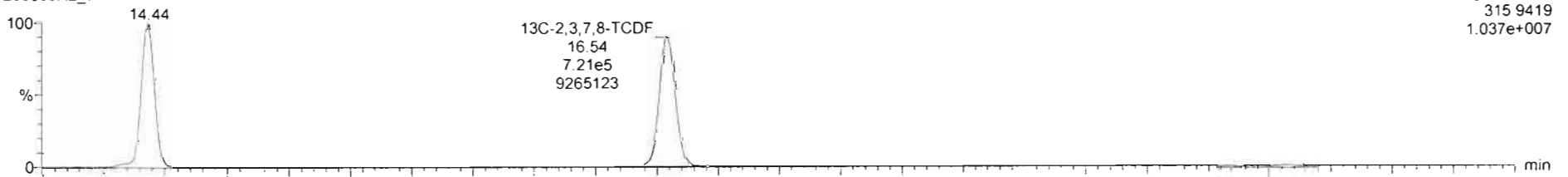


200309R2_7

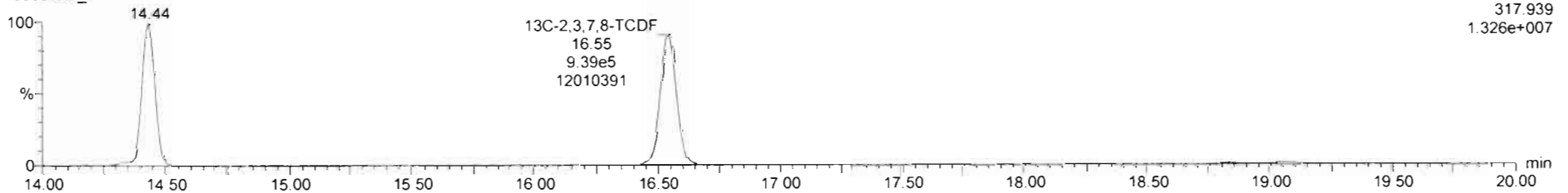


13C-2,3,7,8-TCDF

200309R2_7



200309R2_7



Dataset: Untitled

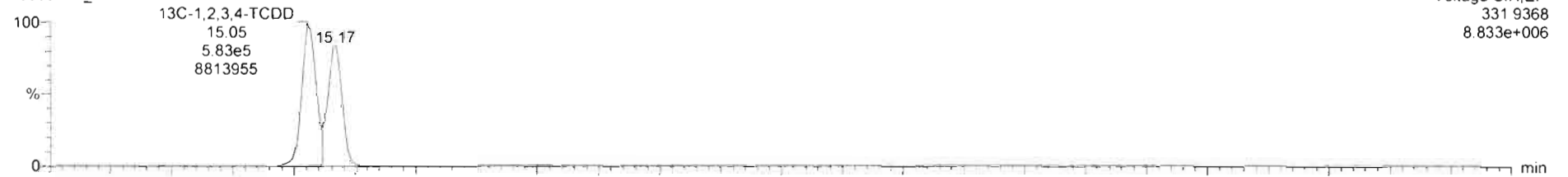
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Printed: Tuesday, March 10, 2020 7:39:58 AM Pacific Daylight Time

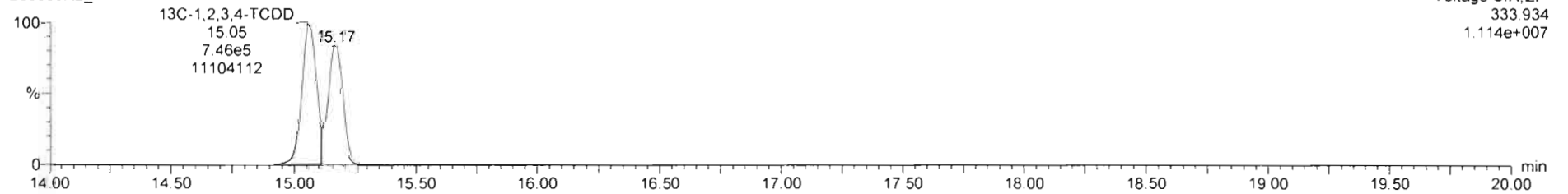
Name: 200309R2_7, Date: 09-Mar-2020, Time: 20:57:48, ID: ST200309R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

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

200309R2_7

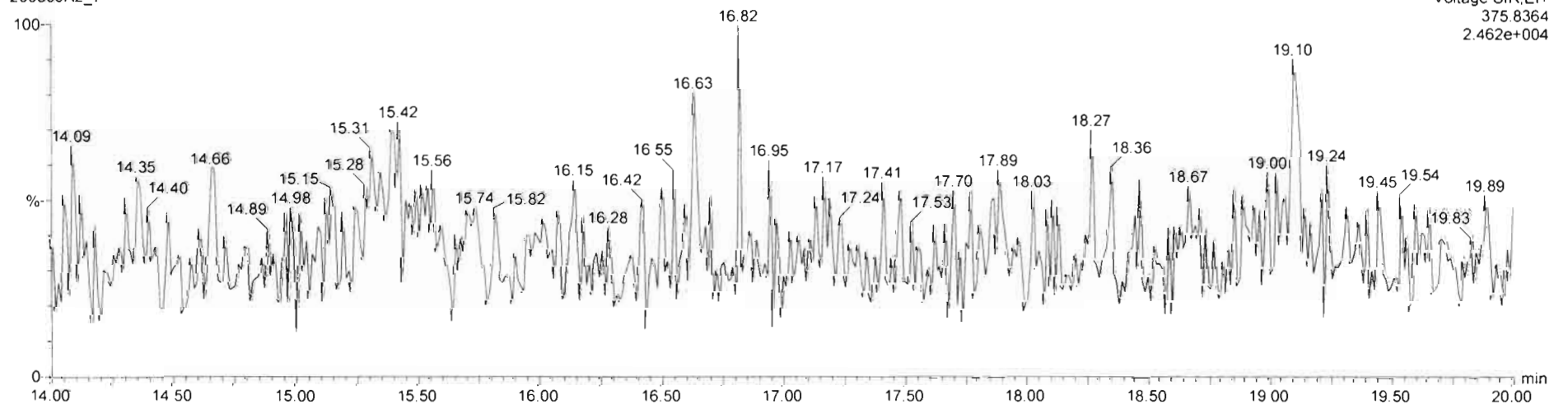


200309R2_7



DPE1

200309R2_7



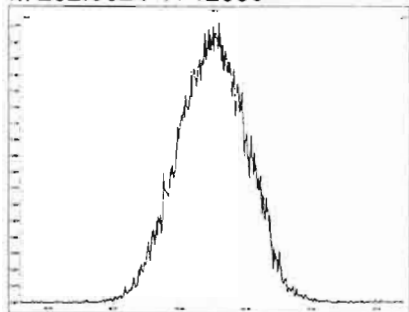
Experiment Calibration Report

MassLynx 4.1 SCN815

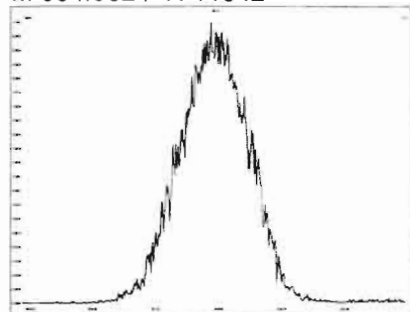
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Printed: Tuesday, March 10, 2020 07:42:24 Pacific Daylight Time

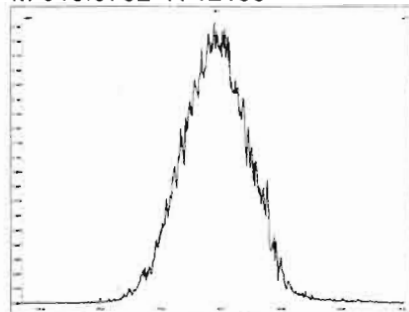
M 292.9824 R 12559



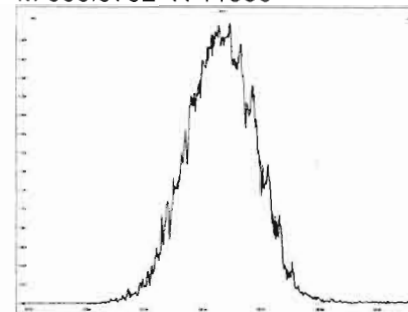
M 304.9824 R 11842



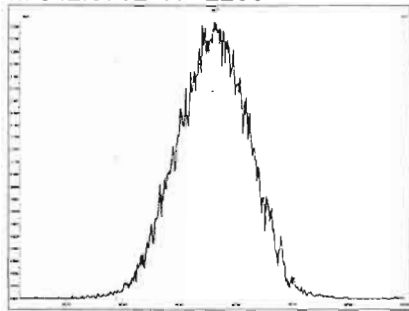
M 318.9792 R 12193



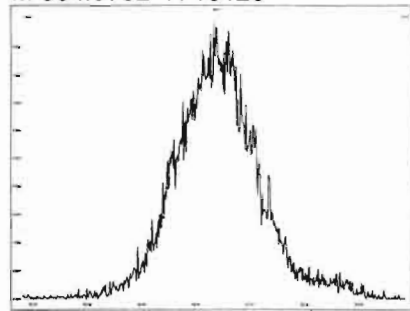
M 330.9792 R 11963



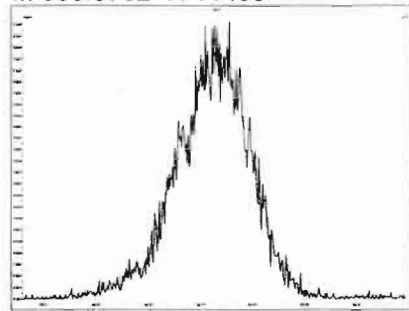
M 342.9792 R 12200



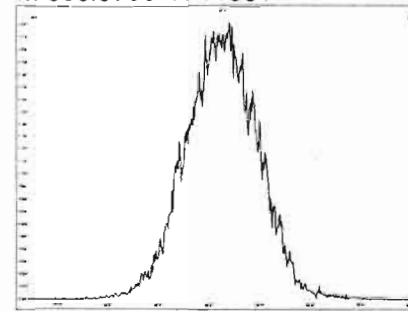
M 354.9792 R 10120



M 366.9792 R 11468



M 380.9760 R 11681



Dataset: U:\VG12.PRO\Results\200309R2\200309R2-9.qld

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:25:09 AM Pacific Daylight Time

GRB 03/10/2020

C1 03/10/2020

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	1.09e5	0.73	NO	0.821	1.000	16.56	10.163	102	0.0715
2	2 13C-2,3,7,8-TCDF	1.30e6	0.77	NO	1.10	1.000	16.54	93.316	93.3	0.191
3	3 13C-1,2,3,4-TCDF	1.27e6	0.79	NO	1.00	1.000	14.44	100.00	100	0.210

Dataset: Untitled

Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

Printed: Tuesday, March 10, 2020 8:22:54 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\tcdf.mdb 10 Mar 2020 07:50:49

Calibration: U:\VG12.PRO\CurveDB\db225_1613TCDFvg12-03-09-20.cdb 10 Mar 2020 08:18:28

Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

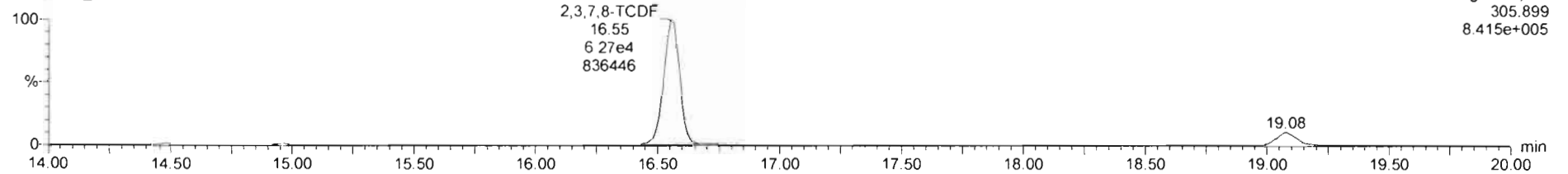
2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
303.9016
6.147e+005

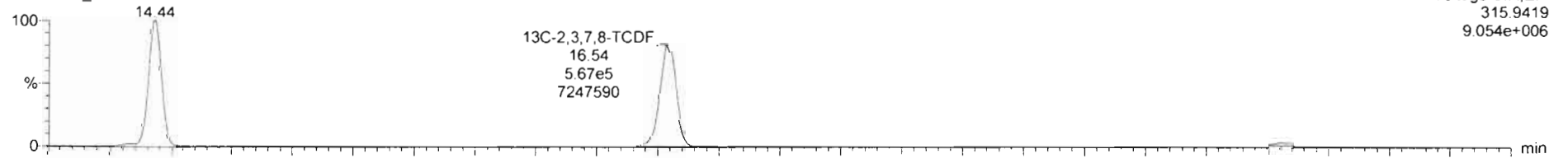
200309R2_9



Voltage SIR,EI+
305.899
8.415e+005

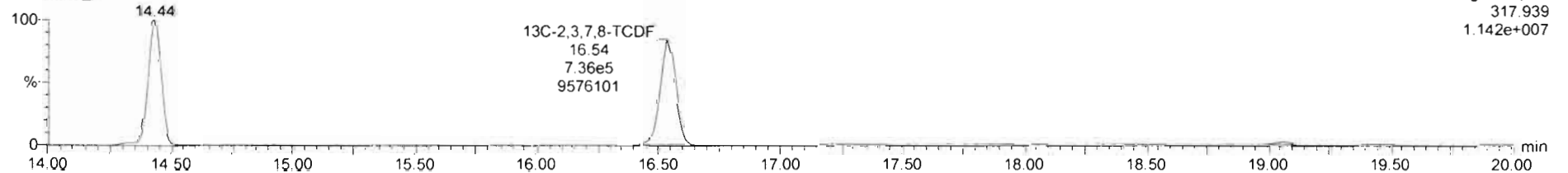
13C-2,3,7,8-TCDF

200309R2_9



Voltage SIR,EI+
315.9419
9.054e+006

200309R2_9



Voltage SIR,EI+
317.939
1.142e+007

Dataset: Untitled

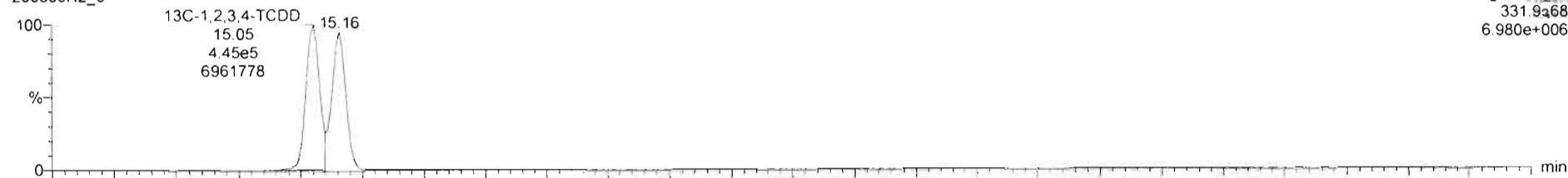
Last Altered: Tuesday, March 10, 2020 8:22:49 AM Pacific Daylight Time

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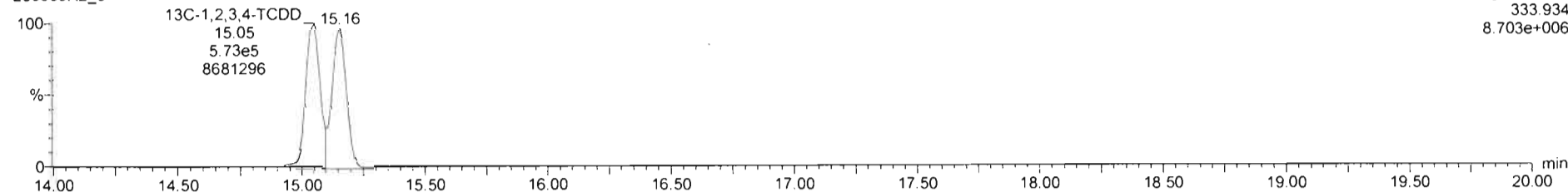
Name: 200309R2_9, Date: 09-Mar-2020, Time: 21:58:38, ID: SS200309R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200309R2_9



200309R2_9



DPE1

200309R2_9

