

April 01, 2020

Vista Work Order No. 2000195

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 January 31, 2020 under your Project Name 'Gasco PDI 000029-02.59'.

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

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

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 2000195

Case Narrative

Sample Condition on Receipt:

Twenty-five 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. The 15 additional samples listed on the CoC were assigned to Vista Work Order 2000194.

Analytical Notes:

EPA Method 1613B

These ten 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

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

Quality Control

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

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

As requested, a laboratory duplicate was performed on sample "PDI-062SC-A-10-11-191023". The RPD was out of the acceptance criteria for OCDD.

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

QC Anomalies

LabNumber	SampleName	Analysis	Analyte	Flag	%Rec
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-2,3,7,8-TCDD	H	24.6
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,7,8-PeCDD	H	21.9
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,4,7,8-HxCDD	H	20.4
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDD	H	19.9
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDD	H	20.6
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-2,3,7,8-TCDF	H	22.1
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,7,8-PeCDF	H	18.2
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-2,3,4,7,8-PeCDF	H	18.4
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,4,7,8-HxCDF	H	24.8
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,6,7,8-HxCDF	H	23.5
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-2,3,4,6,7,8-HxCDF	H	23.8
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,7,8,9-HxCDF	H	24.4
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,4,6,7,8-HpCDF	H	24.8
B0B0187-DUP1	B0B0187-DUP1	EPA Method 1613B	13C-1,2,3,4,7,8,9-HpCDF	H	24.7

H = Recovery was outside laboratory acceptance criteria.

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000195-01	PDI-062SC-A-10-11-191023	Dup23-Oct-19 09:33	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-02	PDI-066SC-A-07-08-191011	11-Oct-19 09:09	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-03	PDI-066SC-A-08-09-191011	11-Oct-19 09:09	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-04	PDI-067SC-A-06-07-191010	10-Oct-19 15:59	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-05	PDI-074SC-A-06-07-191012	12-Oct-19 09:54	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-06	PDI-074SC-A-07-08-191012	12-Oct-19 09:54	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-07	PDI-076SC-A-08-09-191013	13-Oct-19 13:08	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-08	PDI-076SC-A-09-10-191013	13-Oct-19 13:08	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-09	PDI-100SC-J-04-05-191026	26-Sep-19 11:11	31-Jan-20 09:37	Amber Glass, 120 mL
2000195-10	PDI-100SC-J-05-06-191026	26-Sep-19 11:11	31-Jan-20 09:37	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B				
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33		Lab Sample: B0B0187-BLK1 Date Analyzed: 19-Mar-20 20:17 Column: ZB-5MS					
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers	
2,3,7,8-TCDD	ND	0.0812			IS 13C-2,3,7,8-TCDD	90.1	25 - 164		
1,2,3,7,8-PeCDD	ND	0.120			13C-1,2,3,7,8-PeCDD	80.1	25 - 181		
1,2,3,4,7,8-HxCDD	ND	0.119			13C-1,2,3,4,7,8-HxCDD	75.4	32 - 141		
1,2,3,6,7,8-HxCDD	ND	0.118			13C-1,2,3,6,7,8-HxCDD	74.0	28 - 130		
1,2,3,7,8,9-HxCDD	ND	0.133			13C-1,2,3,7,8,9-HxCDD	77.5	32 - 141		
1,2,3,4,6,7,8-HpCDD	ND	0.151			13C-1,2,3,4,6,7,8-HpCDD	79.2	23 - 140		
OCDD	ND		0.252		13C-OCDD	64.2	17 - 157		
2,3,7,8-TCDF	ND	0.0497			13C-2,3,7,8-TCDF	81.9	24 - 169		
1,2,3,7,8-PeCDF	ND	0.0685			13C-1,2,3,7,8-PeCDF	71.9	24 - 185		
2,3,4,7,8-PeCDF	ND	0.0670			13C-2,3,4,7,8-PeCDF	71.0	21 - 178		
1,2,3,4,7,8-HxCDF	ND	0.0863			13C-1,2,3,4,7,8-HxCDF	90.2	26 - 152		
1,2,3,6,7,8-HxCDF	ND	0.0858			13C-1,2,3,6,7,8-HxCDF	88.4	26 - 123		
2,3,4,6,7,8-HxCDF	ND	0.0885			13C-2,3,4,6,7,8-HxCDF	87.4	28 - 136		
1,2,3,7,8,9-HxCDF	ND	0.130			13C-1,2,3,7,8,9-HxCDF	88.7	29 - 147		
1,2,3,4,6,7,8-HpCDF	ND	0.0723			13C-1,2,3,4,6,7,8-HpCDF	86.0	28 - 143		
1,2,3,4,7,8,9-HpCDF	ND	0.0967			13C-1,2,3,4,7,8,9-HpCDF	81.1	26 - 138		
OCDF	ND	0.105			13C-OCDF	70.9	17 - 157		
					CRS 37Cl-2,3,7,8-TCDD	91.9	35 - 197		
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)				
					TEQMinWHO2005Dioxin		0.00		
TOTALS									
Total TCDD	ND	0.0812							
Total PeCDD	ND	0.120							
Total HxCDD	ND	0.133							
Total HpCDD	ND	0.151							
Total TCDF	ND	0.0497							
Total PeCDF	ND	0.0685							
Total HxCDF	ND	0.130							
Total HpCDF	ND	0.0967							

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: B0B0187 Date Extracted: 21-Feb-2020 6:33		Lab Sample: B0B0187-BS1 Date Analyzed: 19-Mar-20 17:54 Column: ZB-5MS			
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	18.9	20.0	94.4	67 - 158	IS 13C-2,3,7,8-TCDD	80.6	20 - 175
1,2,3,7,8-PeCDD	105	100	105	70 - 142	13C-1,2,3,7,8-PeCDD	72.9	21 - 227
1,2,3,4,7,8-HxCDD	101	100	101	70 - 164	13C-1,2,3,4,7,8-HxCDD	77.0	21 - 193
1,2,3,6,7,8-HxCDD	102	100	102	76 - 134	13C-1,2,3,6,7,8-HxCDD	75.0	25 - 163
1,2,3,7,8,9-HxCDD	101	100	101	64 - 162	13C-1,2,3,7,8,9-HxCDD	79.1	21 - 193
1,2,3,4,6,7,8-HpCDD	102	100	102	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	71.7	26 - 166
OCDD	203	200	101	78 - 144	13C-OCDD	62.7	13 - 199
2,3,7,8-TCDF	18.9	20.0	94.4	75 - 158	13C-2,3,7,8-TCDF	69.3	22 - 152
1,2,3,7,8-PeCDF	101	100	101	80 - 134	13C-1,2,3,7,8-PeCDF	66.0	21 - 192
2,3,4,7,8-PeCDF	103	100	103	68 - 160	13C-2,3,4,7,8-PeCDF	63.6	13 - 328
1,2,3,4,7,8-HxCDF	97.0	100	97.0	72 - 134	13C-1,2,3,4,7,8-HxCDF	84.2	19 - 202
1,2,3,6,7,8-HxCDF	96.2	100	96.2	84 - 130	13C-1,2,3,6,7,8-HxCDF	84.0	21 - 159
2,3,4,6,7,8-HxCDF	92.4	100	92.4	70 - 156	13C-2,3,4,6,7,8-HxCDF	69.8	22 - 176
1,2,3,7,8,9-HxCDF	96.7	100	96.7	78 - 130	13C-1,2,3,7,8,9-HxCDF	83.0	17 - 205
1,2,3,4,6,7,8-HpCDF	94.1	100	94.1	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	83.3	21 - 158
1,2,3,4,7,8,9-HpCDF	92.6	100	92.6	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	78.3	20 - 186
OCDF	198	200	99.0	63 - 170	13C-OCDF	67.6	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	88.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-062SC-A-10-11-191023 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-01 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 12.2 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 23-Oct-2019 9:33	% Solids: 82.0	Date Analyzed: 19-Mar-20 23:28 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.129			IS 13C-2,3,7,8-TCDD	86.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.119			13C-1,2,3,7,8-PeCDD	75.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.116			13C-1,2,3,4,7,8-HxCDD	74.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.117			13C-1,2,3,6,7,8-HxCDD	70.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.132			13C-1,2,3,7,8,9-HxCDD	76.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.949			J	13C-1,2,3,4,6,7,8-HpCDD	86.9	23 - 140	
OCDD	7.67				13C-OCDD	76.5	17 - 157	
2,3,7,8-TCDF	ND	0.0670			13C-2,3,7,8-TCDF	78.6	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0745			13C-1,2,3,7,8-PeCDF	66.7	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0683			13C-2,3,4,7,8-PeCDF	66.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0611			13C-1,2,3,4,7,8-HxCDF	86.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0634			13C-1,2,3,6,7,8-HxCDF	82.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0619			13C-2,3,4,6,7,8-HxCDF	86.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0836			13C-1,2,3,7,8,9-HxCDF	88.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0833			13C-1,2,3,4,6,7,8-HpCDF	91.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.112			13C-1,2,3,4,7,8,9-HpCDF	95.1	26 - 138	
OCDF	ND	0.118			13C-OCDF	84.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.3	35 - 197	

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

TEQMinWHO2005Dioxin 0.0118

TOTALS								
Total TCDD	ND	0.129						
Total PeCDD	ND	0.119						
Total HxCDD	0.646		1.01					
Total HpCDD	2.64							
Total TCDF	ND	0.0670						
Total PeCDF	ND	0.0745						
Total HxCDF	ND	0.0836						
Total HpCDF	ND	0.112						

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

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

Sample ID: Duplicate					EPA Method 1613B			
Source Client ID: PDI-062SC-A-10-11-191023		QC Batch: B0B0187		Lab Sample: B0B0187-DUP1				
Source LabNumber: 2000195-01		Date Extracted: 21-Feb-2020 6:33		Date Analyzed: 19-Mar-20 22:40 Column: ZB-5MS				
Matrix: Solid								
Sample Size: 12.2 g								
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.454			IS 13C-2,3,7,8-TCDD	24.6	25 - 164	H
1,2,3,7,8-PeCDD	ND	0.506			13C-1,2,3,7,8-PeCDD	21.9	25 - 181	H
1,2,3,4,7,8-HxCDD	ND	0.420			13C-1,2,3,4,7,8-HxCDD	20.4	32 - 141	H
1,2,3,6,7,8-HxCDD	ND	0.427			13C-1,2,3,6,7,8-HxCDD	19.9	28 - 130	H
1,2,3,7,8,9-HxCDD	ND	0.490			13C-1,2,3,7,8,9-HxCDD	20.6	32 - 141	H
1,2,3,4,6,7,8-HpCDD	ND		3.79		13C-1,2,3,4,6,7,8-HpCDD	23.4	23 - 140	
OCDD	34.1				13C-OCDD	19.4	17 - 157	
2,3,7,8-TCDF	ND	0.206			13C-2,3,7,8-TCDF	22.1	24 - 169	H
1,2,3,7,8-PeCDF	ND	0.275			13C-1,2,3,7,8-PeCDF	18.2	24 - 185	H
2,3,4,7,8-PeCDF	ND	0.242			13C-2,3,4,7,8-PeCDF	18.4	21 - 178	H
1,2,3,4,7,8-HxCDF	ND	0.179			13C-1,2,3,4,7,8-HxCDF	24.8	26 - 152	H
1,2,3,6,7,8-HxCDF	ND	0.182			13C-1,2,3,6,7,8-HxCDF	23.5	26 - 123	H
2,3,4,6,7,8-HxCDF	ND	0.181			13C-2,3,4,6,7,8-HxCDF	23.8	28 - 136	H
1,2,3,7,8,9-HxCDF	ND	0.224			13C-1,2,3,7,8,9-HxCDF	24.4	29 - 147	H
1,2,3,4,6,7,8-HpCDF	ND	0.273			13C-1,2,3,4,6,7,8-HpCDF	24.8	28 - 143	H
1,2,3,4,7,8,9-HpCDF	ND	0.377			13C-1,2,3,4,7,8,9-HpCDF	24.7	26 - 138	H
OCDF	ND	0.394			13C-OCDF	22.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	90.8	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.0102			
TOTALS								
Total TCDD	ND	0.454						
Total PeCDD	ND		0.432					
Total HxCDD	5.48							
Total HpCDD	8.32		12.1					
Total TCDF	ND	0.206						
Total PeCDF	ND	0.275						
Total HxCDF	ND	0.224						
Total HpCDF	ND	0.377						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL - Lower control limit - upper control limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Sample ID: Duplicate					EPA Method 1613B				
Source Client ID: PDI-062SC-A-10-11-191023					Duplicate Lab Sample: B0B0187-DUP1				
Source LabNumber: 2000195-01									
Matrix: Solid									
Analyte	Dup Conc. (pg/g)	Source Conc.	RPD	RPD Limits	Labeled Standard	Dup %R	Source %R	LCL-UCL	
2,3,7,8-TCDD	ND	ND	NA	25	IS 13C-2,3,7,8-TCDD	24.6	86.1	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	21.9	75.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDD	20.4	74.5	32 - 141	
1,2,3,6,7,8-HxCDD	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDD	19.9	70.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDD	20.6	76.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.949	#	25	13C-1,2,3,4,6,7,8-HpCDD	23.4	86.9	23 - 140	
OCDD	34.1	7.67	127	25	13C-OCDD	19.4	76.5	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	22.1	78.6	24 - 169	
1,2,3,7,8-PeCDF	ND	ND	NA	25	13C-1,2,3,7,8-PeCDF	18.2	66.7	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	18.4	66.1	21 - 178	
1,2,3,4,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,4,7,8-HxCDF	24.8	86.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	ND	NA	25	13C-1,2,3,6,7,8-HxCDF	23.5	82.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	ND	NA	25	13C-2,3,4,6,7,8-HxCDF	23.8	86.7	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	24.4	88.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	ND	NA	25	13C-1,2,3,4,6,7,8-HpCDF	24.8	91.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	ND	NA	25	13C-1,2,3,4,7,8,9-HpCDF	24.7	95.1	26 - 138	
OCDF	ND	ND	NA	25	13C-OCDF	22.2	84.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	90.8	95.3	35 - 197	

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

Sample ID: PDI-066SC-A-07-08-191011 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-02 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 16.8 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 11-Oct-2019 9:09	% Solids: 59.8	Date Analyzed : 20-Mar-20 00:16 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.139			IS 13C-2,3,7,8-TCDD	86.7	25 - 164	
1,2,3,7,8-PeCDD	ND	0.205			13C-1,2,3,7,8-PeCDD	72.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.143			13C-1,2,3,4,7,8-HxCDD	63.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND		0.339		13C-1,2,3,6,7,8-HxCDD	62.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.374		13C-1,2,3,7,8,9-HxCDD	62.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	5.30				13C-1,2,3,4,6,7,8-HpCDD	60.2	23 - 140	
OCDD	55.2				13C-OCDD	24.0	17 - 157	
2,3,7,8-TCDF	0.283			J	13C-2,3,7,8-TCDF	80.0	24 - 169	
1,2,3,7,8-PeCDF	ND		0.149		13C-1,2,3,7,8-PeCDF	67.7	24 - 185	
2,3,4,7,8-PeCDF	ND		0.448		13C-2,3,4,7,8-PeCDF	61.4	21 - 178	
1,2,3,4,7,8-HxCDF	0.905			J	13C-1,2,3,4,7,8-HxCDF	78.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.797			J	13C-1,2,3,6,7,8-HxCDF	75.0	26 - 123	
2,3,4,6,7,8-HxCDF	0.453			J	13C-2,3,4,6,7,8-HxCDF	67.3	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.122			13C-1,2,3,7,8,9-HxCDF	76.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	11.2				13C-1,2,3,4,6,7,8-HpCDF	67.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.524		13C-1,2,3,4,7,8,9-HpCDF	65.2	26 - 138	
OCDF	4.63			J	13C-OCDF	37.7	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.7	35 - 197	

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

TEQMinWHO2005Dioxin 0.427

TOTALS			
Total TCDD	0.537		1.32
Total PeCDD	0.634		0.812
Total HxCDD	2.58		5.22
Total HpCDD	14.2		
Total TCDF	6.90		7.38
Total PeCDF	4.37		5.84
Total HxCDF	8.59		8.77
Total HpCDF	19.7		20.3

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-066SC-A-08-09-191011 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-03 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 17.1 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 11-Oct-2019 9:09	% Solids: 58.5	Date Analyzed: 20-Mar-20 01:04 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.117			IS 13C-2,3,7,8-TCDD	96.7	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0680		13C-1,2,3,7,8-PeCDD	84.8	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0749			13C-1,2,3,4,7,8-HxCDD	81.7	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0779			13C-1,2,3,6,7,8-HxCDD	76.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0815			13C-1,2,3,7,8,9-HxCDD	82.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.03			J	13C-1,2,3,4,6,7,8-HpCDD	92.3	23 - 140	
OCDD	6.52				13C-OCDD	72.3	17 - 157	
2,3,7,8-TCDF	0.209			J	13C-2,3,7,8-TCDF	88.0	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0730		13C-1,2,3,7,8-PeCDF	77.9	24 - 185	
2,3,4,7,8-PeCDF	ND		0.130		13C-2,3,4,7,8-PeCDF	74.2	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0656			13C-1,2,3,4,7,8-HxCDF	95.0	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0679			13C-1,2,3,6,7,8-HxCDF	89.7	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0689			13C-2,3,4,6,7,8-HxCDF	92.5	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0889			13C-1,2,3,7,8,9-HxCDF	95.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0735			13C-1,2,3,4,6,7,8-HpCDF	94.9	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0930			13C-1,2,3,4,7,8,9-HpCDF	98.1	26 - 138	
OCDF	ND	0.102			13C-OCDF	84.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.1	35 - 197	

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

TEQMinWHO2005Dioxin 0.0332

TOTALS								
Total TCDD	0.882		1.28					
Total PeCDD	0.468		1.29					
Total HxCDD	2.16							
Total HpCDD	1.03							
Total TCDF	4.73		5.56					
Total PeCDF	0.258		0.686					
Total HxCDF	0.112							
Total HpCDF	ND	0.0930						

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-067SC-A-06-07-191010 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-04 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 13.3 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 10-Oct-2019 15:59	% Solids: 75.0	Date Analyzed: 20-Mar-20 01:51 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.115			IS 13C-2,3,7,8-TCDD	94.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.113			13C-1,2,3,7,8-PeCDD	84.0	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.112			13C-1,2,3,4,7,8-HxCDD	78.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.118			13C-1,2,3,6,7,8-HxCDD	77.9	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.126			13C-1,2,3,7,8,9-HxCDD	81.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.51				13C-1,2,3,4,6,7,8-HpCDD	93.7	23 - 140	
OCDD	28.0				13C-OCDD	80.7	17 - 157	
2,3,7,8-TCDF	0.153			J	13C-2,3,7,8-TCDF	84.2	24 - 169	
1,2,3,7,8-PeCDF	0.142			J	13C-1,2,3,7,8-PeCDF	74.1	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0861			13C-2,3,4,7,8-PeCDF	74.1	21 - 178	
1,2,3,4,7,8-HxCDF	0.132			J	13C-1,2,3,4,7,8-HxCDF	93.4	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0492			13C-1,2,3,6,7,8-HxCDF	88.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0525			13C-2,3,4,6,7,8-HxCDF	91.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0489		13C-1,2,3,7,8,9-HxCDF	93.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.190		13C-1,2,3,4,6,7,8-HpCDF	94.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.116			13C-1,2,3,4,7,8,9-HpCDF	99.6	26 - 138	
OCDF	0.698			J	13C-OCDF	91.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.9	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0765

TOTALS			
Total TCDD	ND		0.380
Total PeCDD	0.109		0.280
Total HxCDD	1.66		1.84
Total HpCDD	8.18		
Total TCDF	0.302		0.610
Total PeCDF	0.142		
Total HxCDF	0.201		0.337
Total HpCDF	ND		0.555

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-074SC-A-06-07-191012 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-05 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 16.1 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 12-Oct-2019 9:54	% Solids: 62.1	Date Analyzed : 20-Mar-20 07:32 Column: ZB-5MS 24-Mar-20 16:43 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	0.492			J	IS 13C-2,3,7,8-TCDD	91.5	25 - 164	
1,2,3,7,8-PeCDD	1.20			J	13C-1,2,3,7,8-PeCDD	83.9	25 - 181	
1,2,3,4,7,8-HxCDD	1.13			J	13C-1,2,3,4,7,8-HxCDD	78.8	32 - 141	
1,2,3,6,7,8-HxCDD	9.97				13C-1,2,3,6,7,8-HxCDD	75.7	28 - 130	
1,2,3,7,8,9-HxCDD	ND		2.83		13C-1,2,3,7,8,9-HxCDD	79.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	300				13C-1,2,3,4,6,7,8-HpCDD	88.0	23 - 140	
OCDD	5070				13C-OCDD	80.5	17 - 157	
2,3,7,8-TCDF	3.45				13C-2,3,7,8-TCDF	87.3	24 - 169	
1,2,3,7,8-PeCDF	4.29				13C-1,2,3,7,8-PeCDF	80.2	24 - 185	
2,3,4,7,8-PeCDF	2.31			J	13C-2,3,4,7,8-PeCDF	78.5	21 - 178	
1,2,3,4,7,8-HxCDF	9.36				13C-1,2,3,4,7,8-HxCDF	89.7	26 - 152	
1,2,3,6,7,8-HxCDF	5.15				13C-1,2,3,6,7,8-HxCDF	87.1	26 - 123	
2,3,4,6,7,8-HxCDF	3.93				13C-2,3,4,6,7,8-HxCDF	86.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.640			J	13C-1,2,3,7,8,9-HxCDF	86.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	65.5				13C-1,2,3,4,6,7,8-HpCDF	86.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	3.33				13C-1,2,3,4,7,8,9-HpCDF	87.9	26 - 138	
OCDF	70.6				13C-OCDF	81.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	92.6	35 - 197	

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

TEQMinWHO2005Dioxin 11.1

TOTALS			
Total TCDD	3.55	4.83	
Total PeCDD	14.3	14.5	
Total HxCDD	108	113	
Total HpCDD	855		
Total TCDF	39.5	40.5	P
Total PeCDF	66.2		P
Total HxCDF	93.7	94.5	P
Total HpCDF	184		

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-074SC-A-07-08-191012 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-06 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 14.8 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 12-Oct-2019 9:54	% Solids: 67.8	Date Analyzed: 20-Mar-20 08:20 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0809			IS 13C-2,3,7,8-TCDD	93.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.103			13C-1,2,3,7,8-PeCDD	89.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0857			13C-1,2,3,4,7,8-HxCDD	81.8	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0854			13C-1,2,3,6,7,8-HxCDD	82.1	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0964			13C-1,2,3,7,8,9-HxCDD	84.5	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.47			J	13C-1,2,3,4,6,7,8-HpCDD	95.5	23 - 140	
OCDD	13.4				13C-OCDD	84.7	17 - 157	
2,3,7,8-TCDF	ND	0.0529			13C-2,3,7,8-TCDF	87.5	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0860		13C-1,2,3,7,8-PeCDF	81.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0523			13C-2,3,4,7,8-PeCDF	81.5	21 - 178	
1,2,3,4,7,8-HxCDF	0.124			J	13C-1,2,3,4,7,8-HxCDF	93.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0632			13C-1,2,3,6,7,8-HxCDF	90.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0686			13C-2,3,4,6,7,8-HxCDF	91.8	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0330		13C-1,2,3,7,8,9-HxCDF	91.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.200			J	13C-1,2,3,4,6,7,8-HpCDF	91.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0655			13C-1,2,3,4,7,8,9-HpCDF	96.5	26 - 138	
OCDF	0.447			J	13C-OCDF	89.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.0333

TOTALS			
Total TCDD	0.379		
Total PeCDD	ND	0.129	
Total HxCDD	0.748	1.04	
Total HpCDD	3.57		
Total TCDF	ND	0.158	
Total PeCDF	0.0931	0.179	
Total HxCDF	0.124	0.243	
Total HpCDF	0.200	0.453	

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-076SC-A-08-09-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-07 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 15.9 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 13-Oct-2019 13:08	% Solids: 62.9	Date Analyzed : 20-Mar-20 09:08 Column: ZB-5MS 25-Mar-20 11:16 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.208			IS 13C-2,3,7,8-TCDD	97.2	25 - 164	
1,2,3,7,8-PeCDD	ND	0.258			13C-1,2,3,7,8-PeCDD	89.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.203			13C-1,2,3,4,7,8-HxCDD	83.8	32 - 141	
1,2,3,6,7,8-HxCDD	0.360			J	13C-1,2,3,6,7,8-HxCDD	79.5	28 - 130	
1,2,3,7,8,9-HxCDD	0.323			J	13C-1,2,3,7,8,9-HxCDD	85.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	5.46				13C-1,2,3,4,6,7,8-HpCDD	96.7	23 - 140	
OCDD	62.2				13C-OCDD	86.9	17 - 157	
2,3,7,8-TCDF	0.665				13C-2,3,7,8-TCDF	88.9	24 - 169	
1,2,3,7,8-PeCDF	0.953			J	13C-1,2,3,7,8-PeCDF	83.6	24 - 185	
2,3,4,7,8-PeCDF	ND		0.258		13C-2,3,4,7,8-PeCDF	82.4	21 - 178	
1,2,3,4,7,8-HxCDF	1.33			J	13C-1,2,3,4,7,8-HxCDF	93.5	26 - 152	
1,2,3,6,7,8-HxCDF	0.544			J	13C-1,2,3,6,7,8-HxCDF	91.4	26 - 123	
2,3,4,6,7,8-HxCDF	0.273			J	13C-2,3,4,6,7,8-HxCDF	90.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.166			J	13C-1,2,3,7,8,9-HxCDF	97.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.58				13C-1,2,3,4,6,7,8-HpCDF	90.5	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.296			J	13C-1,2,3,4,7,8,9-HpCDF	95.4	26 - 138	
OCDF	3.16			J	13C-OCDF	89.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.1	35 - 197	

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

TEQMinWHO2005Dioxin 0.498

TOTALS		
Total TCDD	0.498	0.898
Total PeCDD	0.278	0.517
Total HxCDD	3.52	3.80
Total HpCDD	13.3	
Total TCDF	3.54	3.97
Total PeCDF	3.61	3.87
Total HxCDF	4.38	4.49
Total HpCDF	5.75	5.75

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-076SC-A-09-10-191013 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-08 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 14.2 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 13-Oct-2019 13:08	% Solids: 70.4	Date Analyzed : 20-Mar-20 09:56 Column: ZB-5MS 24-Mar-20 17:46 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.130			IS 13C-2,3,7,8-TCDD	97.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.121			13C-1,2,3,7,8-PeCDD	97.7	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0759			13C-1,2,3,4,7,8-HxCDD	89.7	32 - 141	
1,2,3,6,7,8-HxCDD	0.235			J	13C-1,2,3,6,7,8-HxCDD	85.0	28 - 130	
1,2,3,7,8,9-HxCDD	0.219			J	13C-1,2,3,7,8,9-HxCDD	89.7	32 - 141	
1,2,3,4,6,7,8-HpCDD	7.45				13C-1,2,3,4,6,7,8-HpCDD	103	23 - 140	
OCDD	73.6				13C-OCDD	95.4	17 - 157	
2,3,7,8-TCDF	0.992				13C-2,3,7,8-TCDF	90.6	24 - 169	
1,2,3,7,8-PeCDF	1.55			J	13C-1,2,3,7,8-PeCDF	90.5	24 - 185	
2,3,4,7,8-PeCDF	0.628			J	13C-2,3,4,7,8-PeCDF	87.6	21 - 178	
1,2,3,4,7,8-HxCDF	2.14			J	13C-1,2,3,4,7,8-HxCDF	95.3	26 - 152	
1,2,3,6,7,8-HxCDF	0.661			J	13C-1,2,3,6,7,8-HxCDF	93.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.226		13C-2,3,4,6,7,8-HxCDF	94.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.195			J	13C-1,2,3,7,8,9-HxCDF	95.7	29 - 147	
1,2,3,4,6,7,8-HpCDF	2.11			J	13C-1,2,3,4,6,7,8-HpCDF	97.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.413			J	13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	4.12			J	13C-OCDF	98.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	96.7	35 - 197	

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

TEQMinWHO2005Dioxin 0.802

TOTALS		
Total TCDD	ND	0.246
Total PeCDD	0.0981	0.285
Total HxCDD	3.28	
Total HpCDD	16.2	
Total TCDF	3.69	4.22
Total PeCDF	5.09	5.20
Total HxCDF	4.91	5.14
Total HpCDF	5.55	

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-100SC-J-04-05-190926 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-09 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 13.4 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 26-Sep-2019 11:11	% Solids: 74.4	Date Analyzed : 20-Mar-20 12:19 Column: ZB-5MS 24-Mar-20 18:18 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.168		IS 13C-2,3,7,8-TCDD	94.7	25 - 164	
1,2,3,7,8-PeCDD	0.988			J	13C-1,2,3,7,8-PeCDD	96.1	25 - 181	
1,2,3,4,7,8-HxCDD	0.463			J	13C-1,2,3,4,7,8-HxCDD	89.5	32 - 141	
1,2,3,6,7,8-HxCDD	7.72				13C-1,2,3,6,7,8-HxCDD	84.8	28 - 130	
1,2,3,7,8,9-HxCDD	3.02				13C-1,2,3,7,8,9-HxCDD	89.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	86.1				13C-1,2,3,4,6,7,8-HpCDD	104	23 - 140	
OCDD	1090				13C-OCDD	89.6	17 - 157	
2,3,7,8-TCDF	0.500				13C-2,3,7,8-TCDF	87.6	24 - 169	
1,2,3,7,8-PeCDF	0.828			J	13C-1,2,3,7,8-PeCDF	88.8	24 - 185	
2,3,4,7,8-PeCDF	2.01			J	13C-2,3,4,7,8-PeCDF	88.3	21 - 178	
1,2,3,4,7,8-HxCDF	5.46				13C-1,2,3,4,7,8-HxCDF	91.7	26 - 152	
1,2,3,6,7,8-HxCDF	9.07				13C-1,2,3,6,7,8-HxCDF	89.0	26 - 123	
2,3,4,6,7,8-HxCDF	8.23				13C-2,3,4,6,7,8-HxCDF	89.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.889			J	13C-1,2,3,7,8,9-HxCDF	94.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	400				13C-1,2,3,4,6,7,8-HpCDF	95.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.68				13C-1,2,3,4,7,8,9-HpCDF	97.3	26 - 138	
OCDF	140				13C-OCDF	88.5	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	91.1	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
TEQMinWHO2005Dioxin 10.4

TOTALS								
Total TCDD	3.01		3.82					
Total PeCDD	11.4		14.1					
Total HxCDD	72.7							
Total HpCDD	198							
Total TCDF	44.2		44.5	P				
Total PeCDF	111		112	P				
Total HxCDF	268							
Total HpCDF	718							

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-100SC-J-05-06-190926 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000195-10 Date Received: 31-Jan-2020 9:37
Project: Gasco PDI 000029-02.59	Sample Size: 12.2 g	QC Batch: B0B0187 Date Extracted: 21-Feb-2020 6:33
Date Collected: 26-Sep-2019 11:11	% Solids: 82.2	Date Analyzed: 20-Mar-20 11:31 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.110			IS 13C-2,3,7,8-TCDD	92.7	25 - 164	
1,2,3,7,8-PeCDD	0.729			J	13C-1,2,3,7,8-PeCDD	88.6	25 - 181	
1,2,3,4,7,8-HxCDD	0.369			J	13C-1,2,3,4,7,8-HxCDD	82.3	32 - 141	
1,2,3,6,7,8-HxCDD	4.44				13C-1,2,3,6,7,8-HxCDD	78.0	28 - 130	
1,2,3,7,8,9-HxCDD	1.62			J	13C-1,2,3,7,8,9-HxCDD	80.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	70.6				13C-1,2,3,4,6,7,8-HpCDD	92.7	23 - 140	
OCDD	1080				13C-OCDD	74.2	17 - 157	
2,3,7,8-TCDF	0.294			J	13C-2,3,7,8-TCDF	86.4	24 - 169	
1,2,3,7,8-PeCDF	0.594			J	13C-1,2,3,7,8-PeCDF	83.5	24 - 185	
2,3,4,7,8-PeCDF	1.96			J	13C-2,3,4,7,8-PeCDF	81.2	21 - 178	
1,2,3,4,7,8-HxCDF	4.60				13C-1,2,3,4,7,8-HxCDF	88.5	26 - 152	
1,2,3,6,7,8-HxCDF	5.38				13C-1,2,3,6,7,8-HxCDF	85.0	26 - 123	
2,3,4,6,7,8-HxCDF	6.11				13C-2,3,4,6,7,8-HxCDF	84.1	28 - 136	
1,2,3,7,8,9-HxCDF	0.380			J	13C-1,2,3,7,8,9-HxCDF	86.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	535				13C-1,2,3,4,6,7,8-HpCDF	89.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	2.45			J	13C-1,2,3,4,7,8,9-HpCDF	88.0	26 - 138	
OCDF	ND	0.273			13C-OCDF	76.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	90.0	35 - 197	

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

TEQMinWHO2005Dioxin 10.1

TOTALS			
Total TCDD	0.682	1.56	
Total PeCDD	8.08	8.42	
Total HxCDD	38.6	38.8	
Total HpCDD	165		
Total TCDF	24.8	26.6	P
Total PeCDF	73.9	74.8	P
Total HxCDF	250	251	
Total HpCDF	947		

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

Sample Log-In Checklist

Page # 1 of 1

Vista Work Order #: 20001945 ^{on 01/31/20} TAT 28

Samples Arrival:	Date/Time <u>09:37</u> <u>01/31/2020</u>		Initials: <u>WUW</u>		Location: <u>WR-2</u>		
	Shelf/Rack: <u>NA</u>						
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac	<input type="checkbox"/> GLS	<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered	<input type="checkbox"/> Other
Preservation:	<input checked="" type="checkbox"/> Ice		<input type="checkbox"/> Blue Ice		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
Temp °C: <u>2.5</u> (uncorrected)	Probe used: Y <input checked="" type="checkbox"/> (N)				Thermometer ID: <u>IR-4</u>		
Temp °C: <u>2.5</u> (corrected)							

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipping Custody Seals Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Airbill <u> </u> Trk # <u>7776 4924 8898</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 <u>1301</u> <u>01/31/20</u> <u>1254</u> <u>CM 01/31/20</u>		Initials: <u>CM</u>
	Location: <u>WR-2</u>		Shelf/Rack: <u>G-6</u>
COC Anomaly/Sample Acceptance Form completed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: 25 - Amber glass JARS

CoC/Label Reconciliation Report WO# 2000195

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2000195-01	A PDI-062SC-A-10-11-191023	<input checked="" type="checkbox"/>	16	23-Oct-19 09:33	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	Dup
2000195-02	A PDI-066SC-A-07-08-191011	<input checked="" type="checkbox"/>	17	11-Oct-19 09:09	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000195-03	A PDI-066SC-A-08-09-191011	<input checked="" type="checkbox"/>	18	11-Oct-19 09:09	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000195-04	A PDI-067SC-A-06-07-191010	<input checked="" type="checkbox"/>	19	10-Oct-19 15:59	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000195-05	A PDI-074SC-A-06-07-191012	<input checked="" type="checkbox"/>	20	12-Oct-19 09:54	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000195-06	A PDI-074SC-A-07-08-191012	<input checked="" type="checkbox"/>	21	12-Oct-19 09:54	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000195-07	A PDI-076SC-A-08-09-191013	<input checked="" type="checkbox"/>	22	13-Oct-19 13:08	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000195-08	A PDI-076SC-A-09-10-191013	<input checked="" type="checkbox"/>	23	13-Oct-19 13:08	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000195-09	A PDI-100SC-J-04-05-191026	<input checked="" type="checkbox"/>	24	26-Sep-19 11:11	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	
2000195-10	A PCI-100SC-J-05-06-191026	<input type="checkbox"/> (A)	25	26-Sep-19 11:11	<input checked="" type="checkbox"/>	Amber Glass, 120 mL	Solid	

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

	Yes	No	NA
Sample Container Intact?	✓		
Sample Custody Seals Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)	✓		
Preservation Documented: Na2S2O3 Trizma None Other (B)	✓		
If Chlorinated or Drinking Water Samples, Acceptable Preservation?			✓

Comments:

(A)
COC:
PCI-100SC-J-05-06-191026

(B)
Preservation: "-10°C"

Label:
PDI-100SC-J-05-06-191026

Verified by/Date: lm 01/31/20

EXTRACTION INFORMATION

PREPARATION BENCH SHEET

Matrix: Solid

B0B0187

Chemist: MS

Method: 1613 Full List

Prepared using: HRMS - Soxhlet

Prep Date/Time: 21-Feb-20 06:33

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"/>	B0B0187-BLK1	NA	(10.00)	RR 02/21/20	AZ 02/24/20	NA	AZ 02/24/20	AZ 02/24/20	AZ 02/24/20	RR 02/25/20
<input type="checkbox"/>	B0B0187-BS1	NA	(10.00)	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	B0B0187-DUP1	12.19	12.19	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000195-01	12.19	12.20	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000195-02	16.73	16.75	↓	↓	↓	orange ↓	↓	↓	↓
<input type="checkbox"/>	2000195-03	17.11	17.12	↓	↓	↓	yellow ↓	↓	↓	↓
<input type="checkbox"/>	2000195-04	13.33	13.34	↓	↓	↓	yellow ↓	↓	↓	↓
<input type="checkbox"/>	2000195-05	16.11	16.14	↓	↓	↓	yellow ↓	↓	↓	↓
<input type="checkbox"/>	2000195-06	14.75	14.77	↓	↓	↓	yellow ↓	↓	↓	↓
<input type="checkbox"/>	2000195-07	15.90	15.91	↓	↓	↓	yellow ↓	↓	↓	↓
<input type="checkbox"/>	2000195-08	14.20	14.22	↓	↓	↓	yellow ↓	↓	↓	↓
<input type="checkbox"/>	2000195-09	13.44	13.44	↓	↓	↓	orange ↓	↓	↓	↓
<input type="checkbox"/>	2000195-10	12.16	12.18	↓	↓	↓	orange ↓	↓	↓	↓

Ⓐ 02/21/20

Ⓑ Built ABSG/AA columns RR 02/24/20

IS Name <u>V6</u>	NS Name <u>V3</u>	CRS Name <u>V3</u>	RS Name <u>V3</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 02/21/20</u>
PCDD/F <u>19L2301, 10ul</u>	PCDD/F <u>18F1913, 10ul</u>	PCDD/F <u>19I1602, 10ul</u>	PCDD/F <u>20 02/25/20 RR 19I1603, 10ul</u>	Start Date/Time <u>02-21-20 1400</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 02-21-20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>2-22-20 0720</u>	Other <u>NA</u>	Balance ID: <u>HRMS-8</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14 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

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0B0029

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

Inst **HRMS-8**

Date/Time IN: 02-05-20 0920 Date/Time OUT: 02/06/20 1100

B	C	D	E	F	G	H	I	K	L	M	N	O	P
Particle Size	SampleID	SampType	Initial and Date:	RR 02-05-20	CH 02/06/20			RR 02-05-20	NA			RR 02-05-20	
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl. Before	pH After	pH Added	Sample Homogenized*	
	A	Sample	1.28	6.18	5.30			Sand				X	
		Sample	1.26	5.66	3.89			Mud				X	
		Sample	1.27	6.95	4.59			Mud				X	
		Sample	1.25	5.49	4.43			Dirt				X	
		Sample	1.29	6.30	4.40			Mud				X	
		Sample	1.27	8.78	6.36			Mud				X	
		Sample	1.26	7.51	5.19			Mud				X	
		Sample	1.29	6.77	5.15			Mud				X	
		Sample	1.27	5.57	4.47			Sand				X	
		Sample	1.26	5.70	4.91			Dirt				X	

*Sample homogenized in sample container unless otherwise noted.

Batch: B0B0187

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000195-01	12.2 ✓	82.04082	10.0090	20 ✓	21-Feb-20 06:33 ✓	MSD ✓			Sediment	1613 Full List
2000195-02	16.75 ✓	59.77273	10.0119	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
2000195-03	17.12 ✓	58.45071	10.0068	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
2000195-04	13.34 ✓	75	10.0050	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
2000195-05	16.14 ✓	62.07585	10.0190	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
2000195-06	14.77 ✓	67.77631	10.0106	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
2000195-07	15.91 ✓	62.88	10.0042	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
2000195-08	14.22 ✓	70.43796	10.0163	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
2000195-09	13.44 ✓	74.41859	10.0019	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
2000195-10	12.18 ✓	82.20721	10.0128	20	21-Feb-20 06:33	MSD			Sediment	1613 Full List
B0B0187-BLK1	10 ✓			20	21-Feb-20 06:33	MSD				QC
B0B0187-BS1	10 ✓			20	21-Feb-20 06:33	MSD	18F1913 ✓	10 ✓		QC
B0B0187-DUP1	12.19 ✓	82.04082	10.0008	20 ✓	21-Feb-20 06:33 ✓	MSD ✓				QC

All bolded data on report verified against written benchsheet by (initial/date) AZ 02/25/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-6.qld

Last Altered: Monday, March 23, 2020 08:20:38 Pacific Daylight Time

Printed: Monday, March 23, 2020 08:38:33 Pacific Daylight Time

31 03/23/2020

3/27/20

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

04/01/2020

Name: 200319R1_6, Date: 19-Mar-2020, Time: 20:17:51, ID: B0B0187-BLK1 Method Blank 10, Description: Method Blank, Task: ST200319R1_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.983	10.000					0.0812	
2	1,2,3,7,8-PeCDD			NO	0.921	10.000					0.120	
3	1,2,3,4,7,8-HxCDD			NO	1.13	10.000					0.119	
4	1,2,3,6,7,8-HxCDD			NO	0.984	10.000					0.118	
5	1,2,3,7,8,9-HxCDD			NO	0.967	10.000					0.133	
6	1,2,3,4,6,7,8-HpCDD			NO	1.01	10.000					0.151	
7	OCDD	2.47e2	0.71	YES	1.05	10.000	41.33	1.000	0.28499		0.127	0.252
8	2,3,7,8-TCDF			NO	0.915	10.000					0.0497	
9	1,2,3,7,8-PeCDF			NO	0.959	10.000					0.0685	
10	2,3,4,7,8-PeCDF			NO	1.00	10.000					0.0670	
11	1,2,3,4,7,8-HxCDF			NO	1.04	10.000					0.0863	
12	1,2,3,6,7,8-HxCDF			NO	1.01	10.000					0.0858	
13	2,3,4,6,7,8-HxCDF			NO	1.09	10.000					0.0885	
14	1,2,3,7,8,9-HxCDF			NO	1.03	10.000					0.130	
15	1,2,3,4,6,7,8-HpCDF			NO	1.05	10.000					0.0723	
16	1,2,3,4,7,8,9-HpCDF			NO	1.21	10.000					0.0967	
17	OCDF			NO	0.947	10.000					0.105	
18	13C-2,3,7,8-TCDD	4.97e5	0.79	NO	1.18	10.000	25.74	1.029	180.14	90.1	0.267	
19	13C-1,2,3,7,8-PeCDD	3.23e5	0.64	NO	0.864	10.000	31.05	1.241	160.23	80.1	0.392	
20	13C-1,2,3,4,7,8-HxCDD	2.56e5	1.29	NO	0.754	10.000	34.46	1.014	150.75	75.4	0.488	
21	13C-1,2,3,6,7,8-HxCDD	3.08e5	1.30	NO	0.925	10.000	34.56	1.017	147.94	74.0	0.398	
22	13C-1,2,3,7,8,9-HxCDD	2.89e5	1.23	NO	0.829	10.000	34.82	1.024	155.02	77.5	0.444	
23	13C-1,2,3,4,6,7,8-HpCDD	2.13e5	1.03	NO	0.598	10.000	38.24	1.125	158.34	79.2	0.513	
24	13C-OCDD	3.30e5	0.86	NO	0.571	10.000	41.31	1.215	256.90	64.2	0.438	
25	13C-2,3,7,8-TCDF	7.64e5	0.79	NO	1.09	10.000	24.75	0.989	163.70	81.9	0.359	
26	13C-1,2,3,7,8-PeCDF	5.40e5	1.60	NO	0.876	10.000	29.69	1.187	143.74	71.9	0.468	
27	13C-2,3,4,7,8-PeCDF	5.14e5	1.63	NO	0.844	10.000	30.73	1.228	142.07	71.0	0.486	
28	13C-1,2,3,4,7,8-HxCDF	4.06e5	0.51	NO	1.00	10.000	33.61	0.989	180.50	90.2	0.586	
29	13C-1,2,3,6,7,8-HxCDF	4.45e5	0.52	NO	1.12	10.000	33.72	0.992	176.81	88.4	0.524	
30	13C-2,3,4,6,7,8-HxCDF	4.07e5	0.52	NO	1.04	10.000	34.29	1.009	174.84	87.4	0.566	
31	13C-1,2,3,7,8,9-HxCDF	3.49e5	0.52	NO	0.873	10.000	35.16	1.035	177.35	88.7	0.671	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-6.qld

Last Altered: Monday, March 23, 2020 08:20:38 Pacific Daylight Time

Printed: Monday, March 23, 2020 08:38:33 Pacific Daylight Time

Name: 200319R1_6, Date: 19-Mar-2020, Time: 20:17:51, ID: B0B0187-BLK1 Method Blank 10, Description: Method Blank, Task: ST200319R1_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	2.98e5	0.45	NO	0.771	10.000	36.85	1.084	172.00	86.0	0.544	
33	13C-1,2,3,4,7,8,9-HpCDF	1.90e5	0.44	NO	0.519	10.000	38.90	1.144	162.16	81.1	0.808	
34	13C-OCDF	4.44e5	0.90	NO	0.696	10.000	41.49	1.221	283.51	70.9	0.306	
35	37Cl-2,3,7,8-TCDD	2.01e5			1.17	10.000	25.76	1.030	73.529	91.9	0.0724	
36	13C-1,2,3,4-TCDD	4.66e5	0.79	NO	1.00	10.000	25.02	1.000	200.00	100	0.316	
37	13C-1,2,3,4-TCDF	8.57e5	0.80	NO	1.00	10.000	23.07	1.000	200.00	100	0.391	
38	13C-1,2,3,4,6,9-HxCDF	4.50e5	0.52	NO	1.00	10.000	33.99	1.000	200.00	100	0.586	
39	Total Tetra-Dioxins				0.983	10.000					0.0504	
40	Total Penta-Dioxins				0.921	10.000					0.0552	
41	Total Hexa-Dioxins				0.984	10.000					0.0689	
42	Total Hepta-Dioxins				1.01	10.000					0.0932	
43	Total Tetra-Furans				0.915	10.000					0.0241	
44	1st Func. Penta-Furans				0.959	10.000					0.0207	
45	Total Penta-Furans				0.959	10.000					0.0319	
46	Total Hexa-Furans				1.09	10.000					0.0537	
47	Total Hepta-Furans				1.05	10.000					0.0404	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-6.qld

Last Altered: Monday, March 23, 2020 08:20:38 Pacific Daylight Time

Printed: Monday, March 23, 2020 08:38:33 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_6, Date: 19-Mar-2020, Time: 20:17:51, ID: B0B0187-BLK1 Method Blank 10, Description: Method Blank, Task: ST200319R1_2

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-6.qld

Last Altered: Monday, March 23, 2020 08:20:38 Pacific Daylight Time

Printed: Monday, March 23, 2020 08:38:33 Pacific Daylight Time

Name: 200319R1_6, Date: 19-Mar-2020, Time: 20:17:51, ID: B0B0187-BLK1 Method Blank 10, Description: Method Blank, Task: ST200319R1_2

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

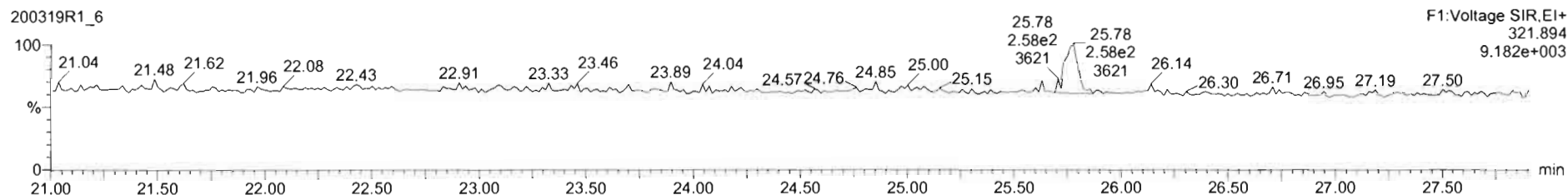
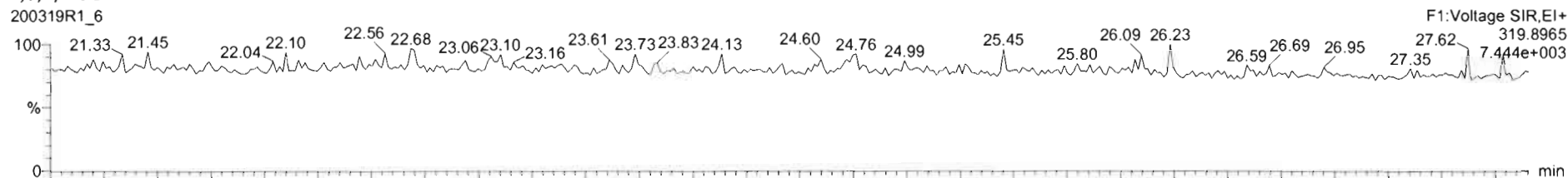
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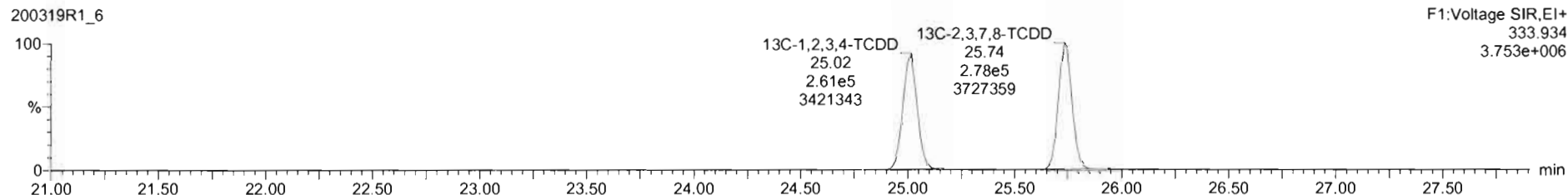
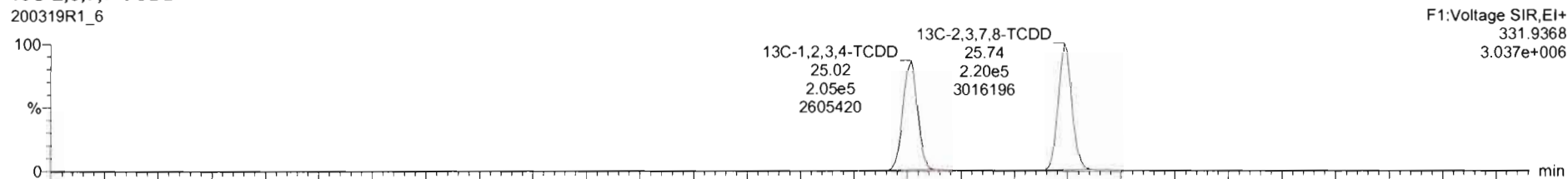
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Name: 200319R1_6, Date: 19-Mar-2020, Time: 20:17:51, ID: B0B0187-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD



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



Dataset: Untitled

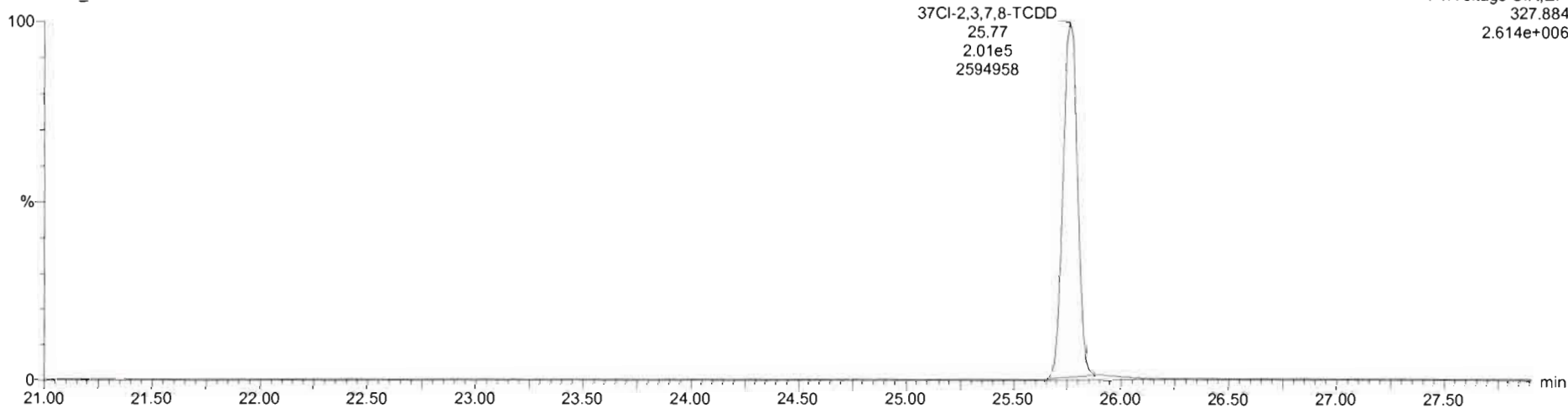
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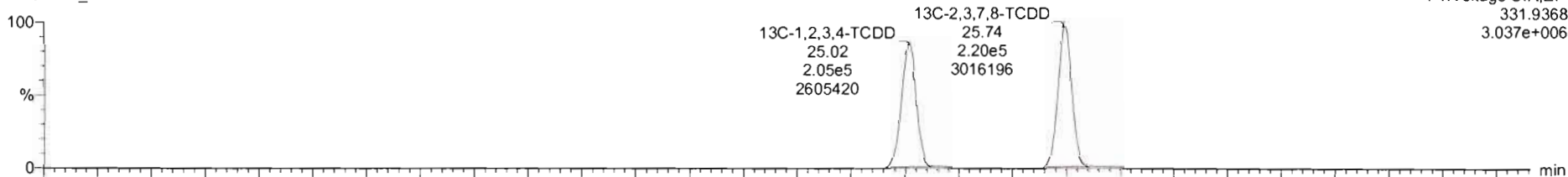
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200319R1_6

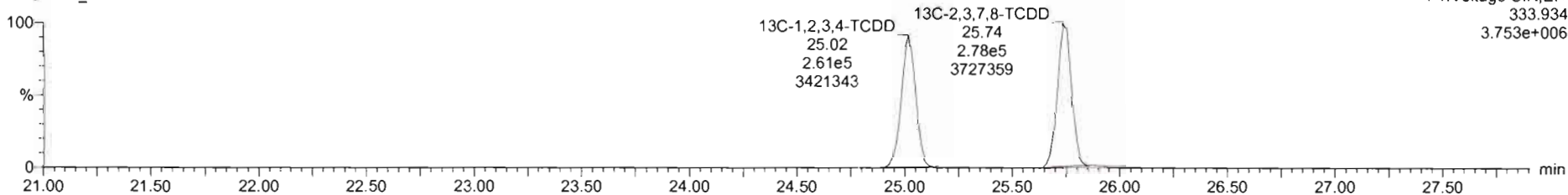


13C-1,2,3,4-TCDD

200319R1_6



200319R1_6



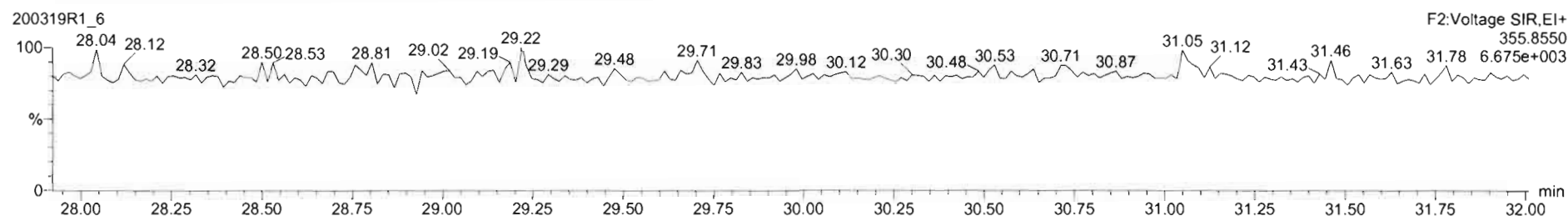
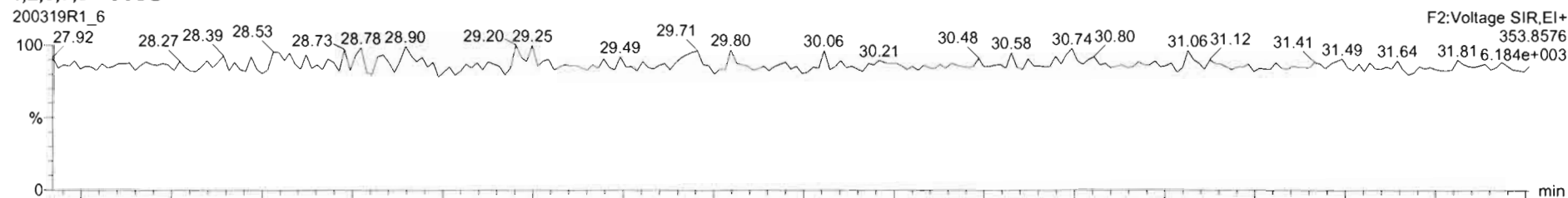
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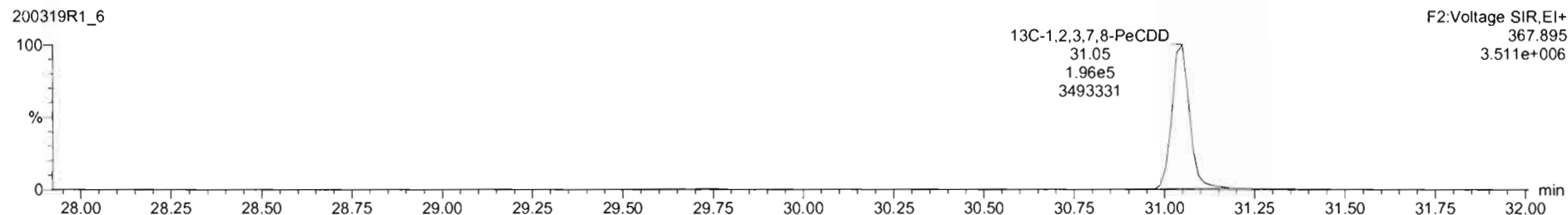
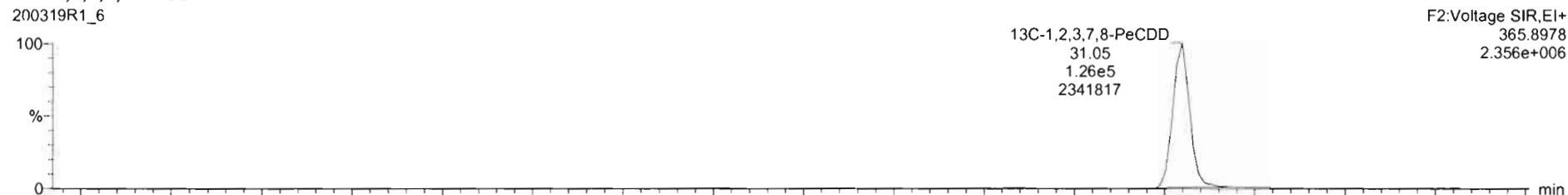
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1,2,3,7,8-PeCDD



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



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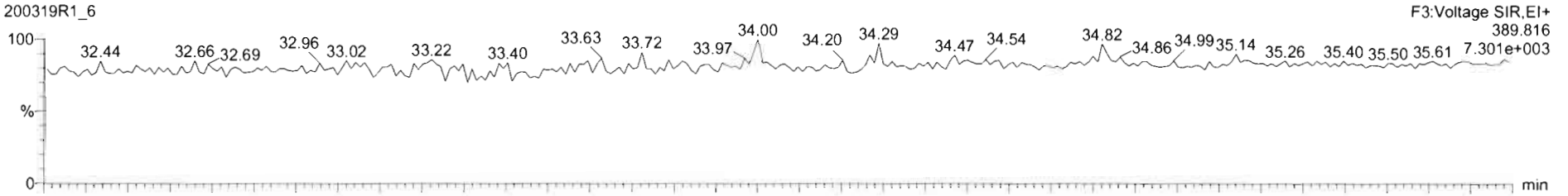
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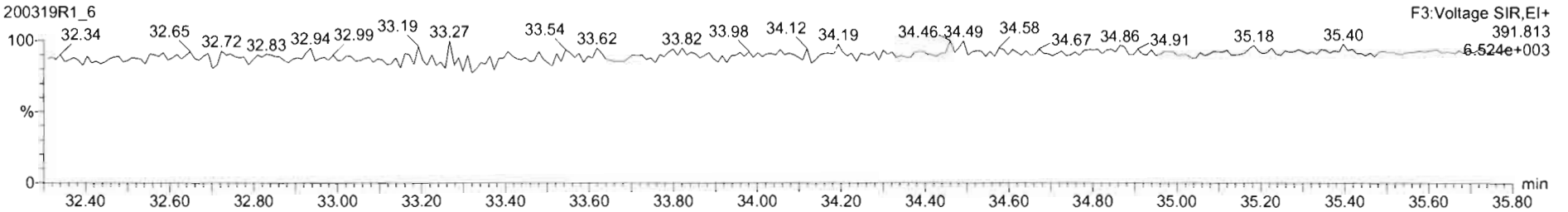
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1,2,3,4,7,8-HxCDD

200319R1_6

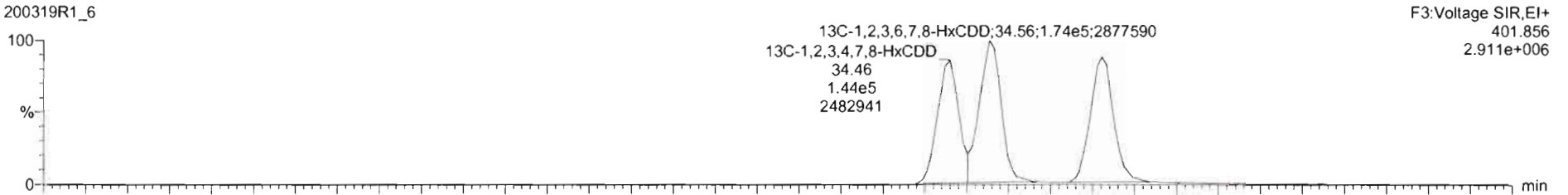


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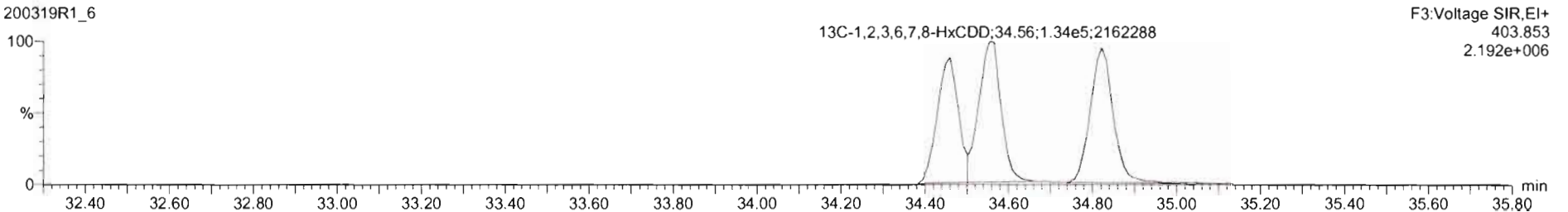


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200319R1_6



200319R1_6



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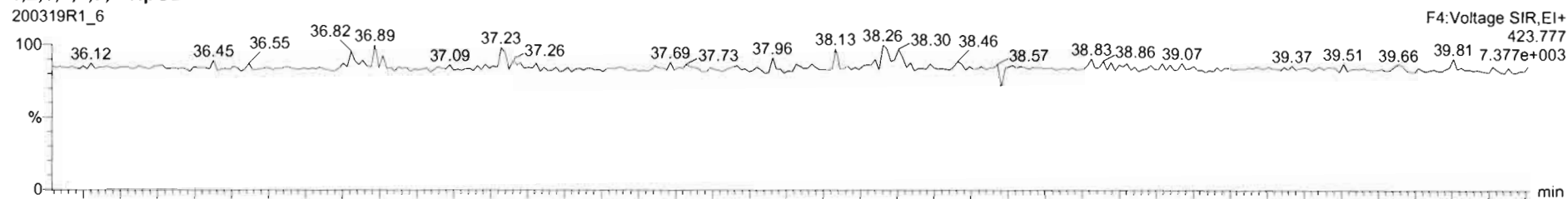
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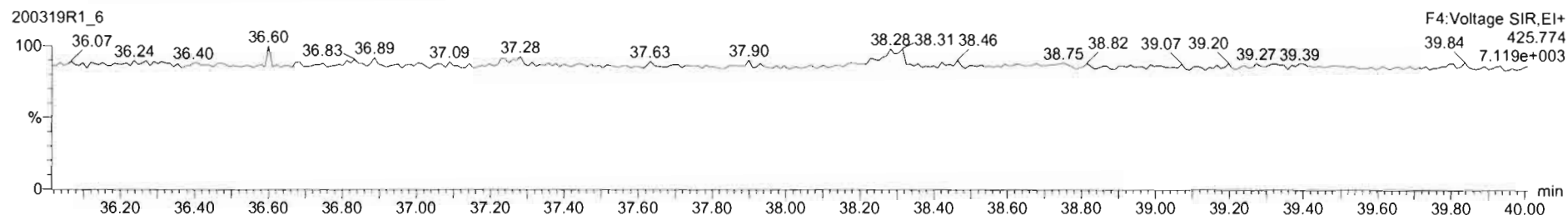
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1,2,3,4,6,7,8-HpCDD

200319R1_6

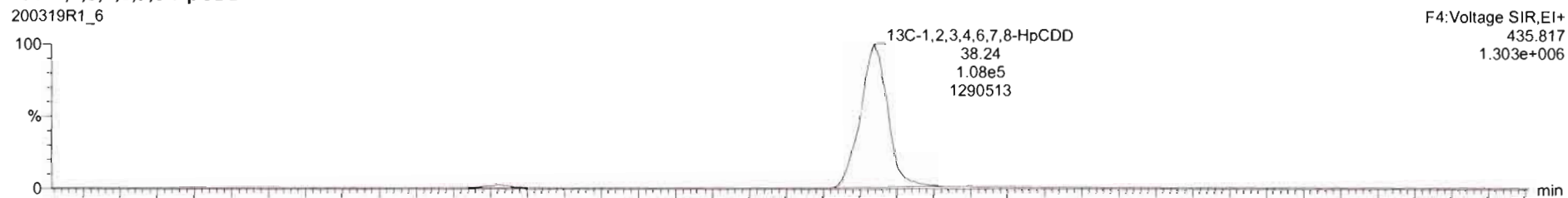


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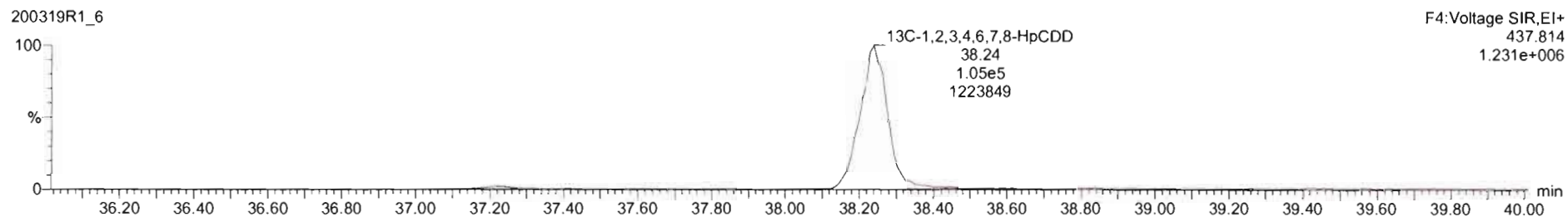


13C-1,2,3,4,6,7,8-HpCDD

200319R1_6



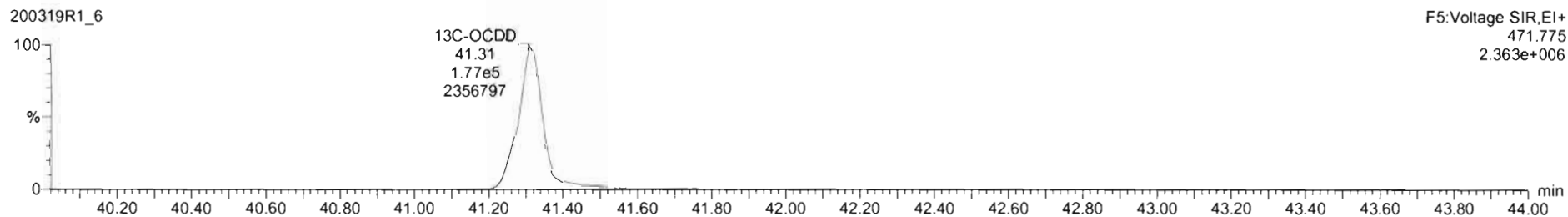
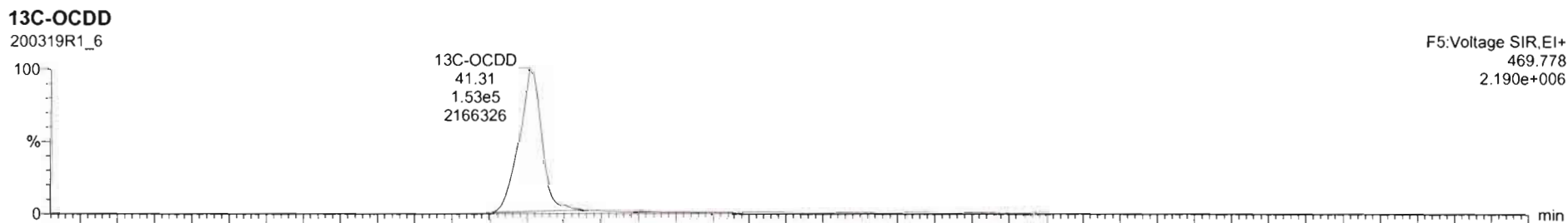
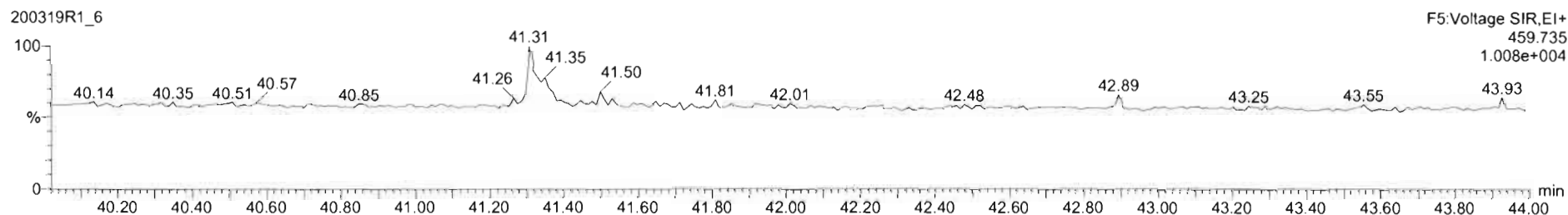
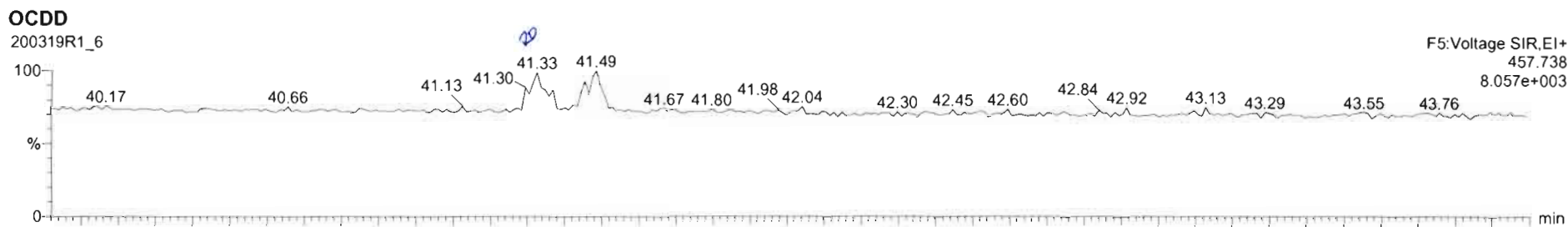
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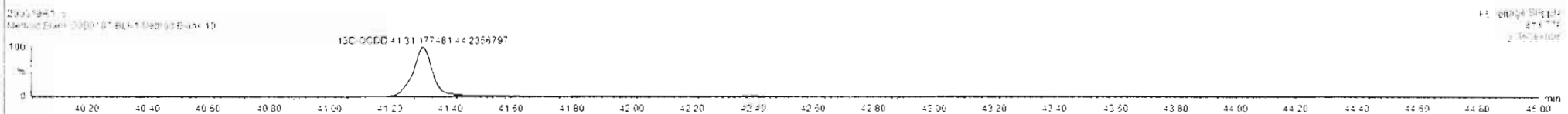
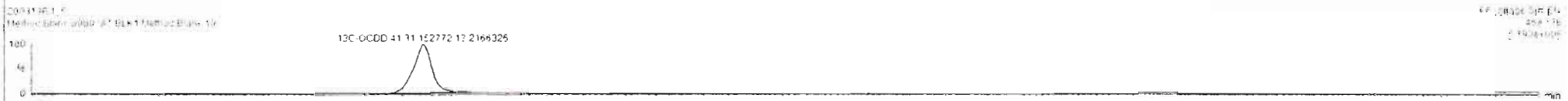
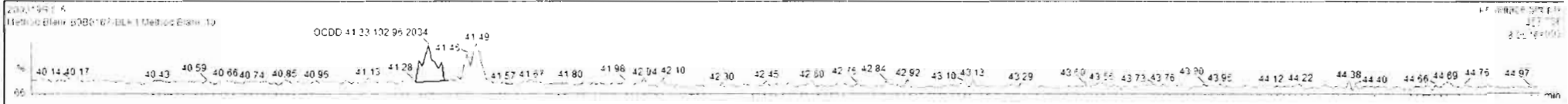
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_6, Date: 19-Mar-2020, Time: 20:17:51, ID: B0B0187-BLK1 Method Blank 10, Description: Method Blank



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2 3 6 7 8-HxCDD			NO	0.9844	10.000					0.118	
1 2 3 7 8 9-HxCDD			NO	0.9874	10.000					0.133	
1 2 3 4 6 7 8-HpCDD			NO	1.0061	10.000					0.151	
OCDD	2.47e2	0.71	YES	1.0515	10.000	41.33	1.001	0.265		0.327	0.252
2 3 7 8-TCDF			NO	0.9154	10.000					0.0497	
1 2 3 7 8-PeCDF			NO	0.9594	10.000					0.0665	
2 3 4 7 8-PeCDF			NO	1.0035	10.000					0.0670	

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



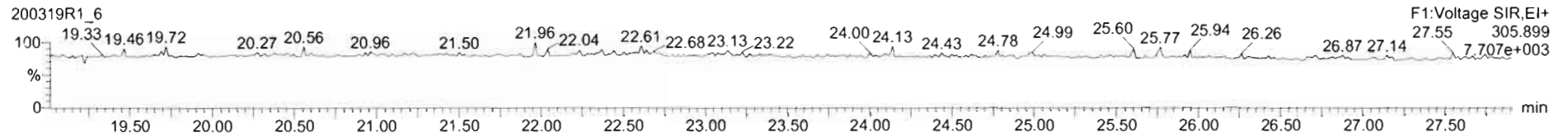
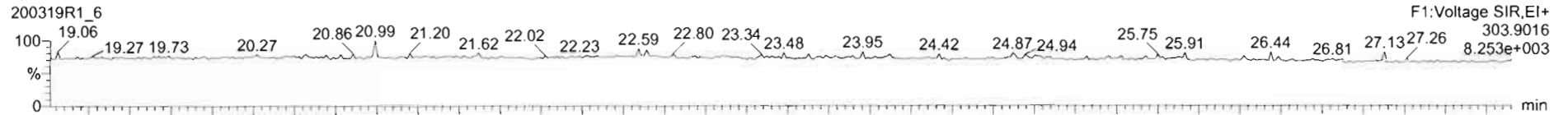
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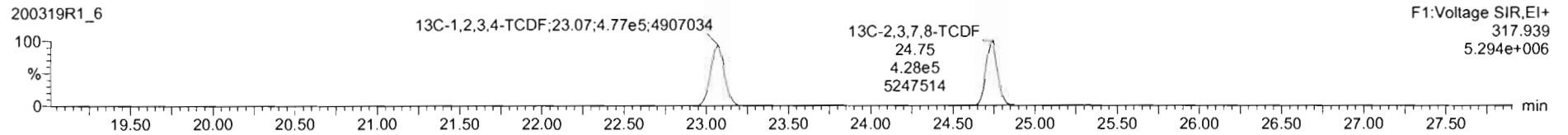
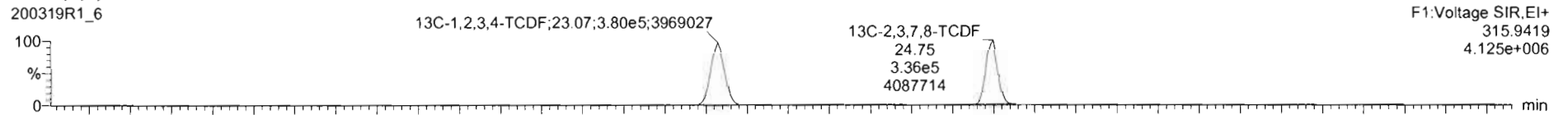
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

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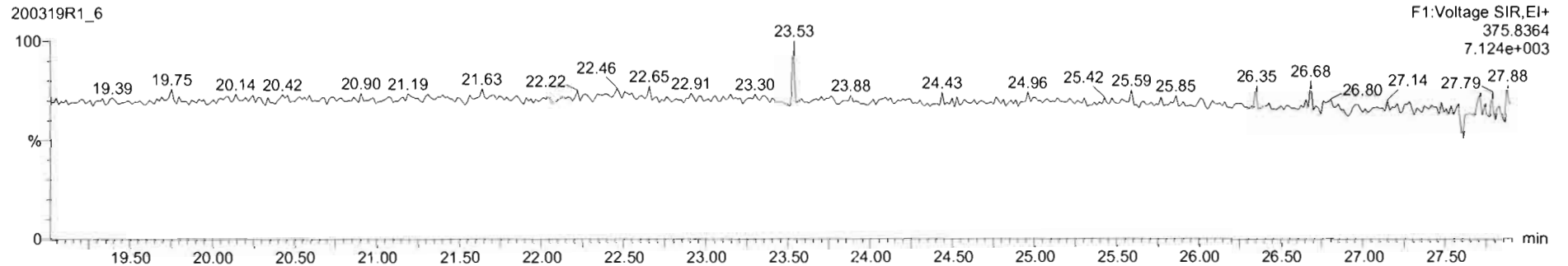
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

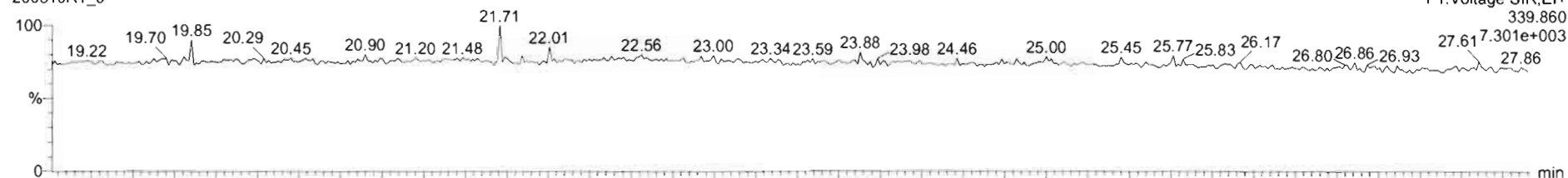
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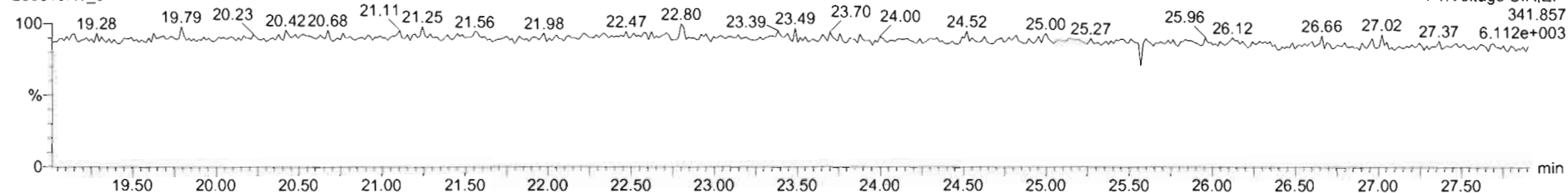
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1st Func. Penta-Furans

200319R1_6

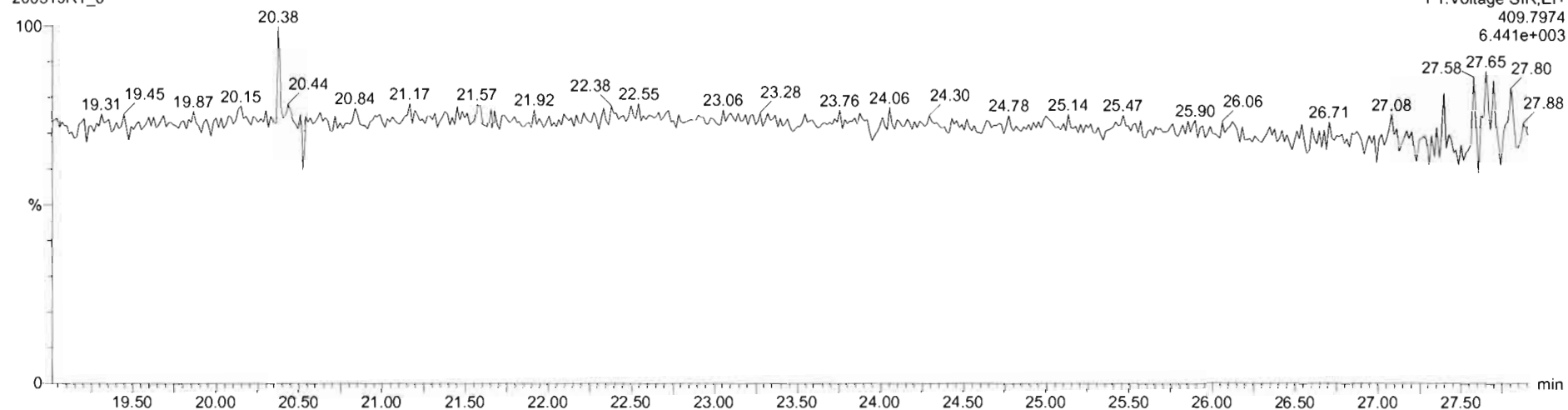


200319R1_6



DPE6

200319R1_6



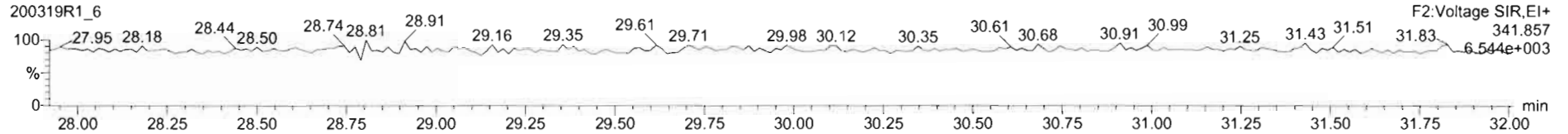
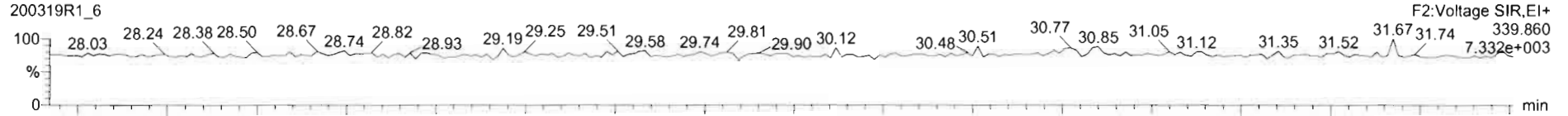
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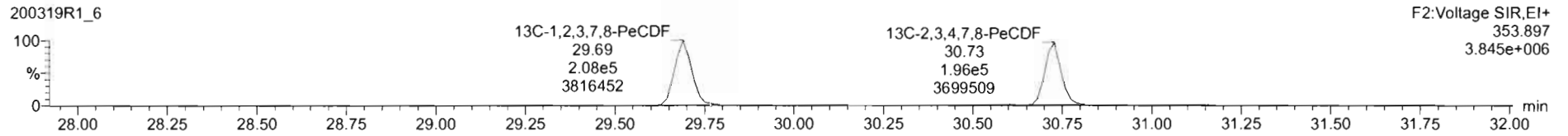
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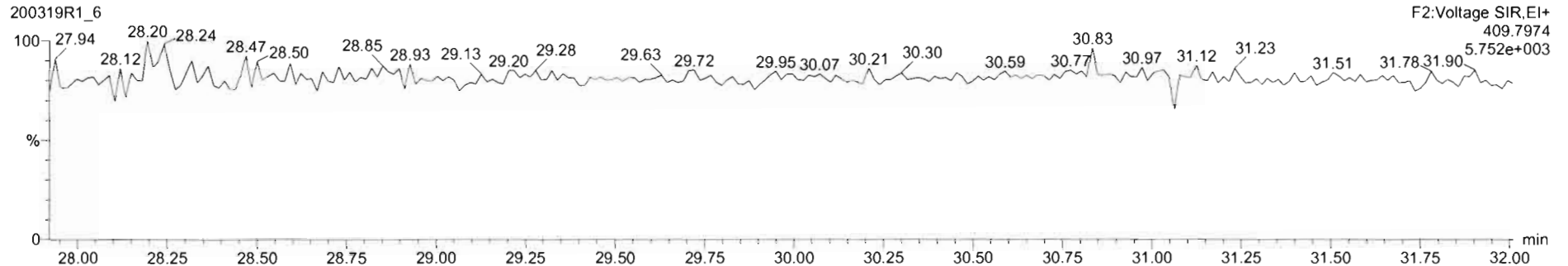
1,2,3,7,8-PeCDF



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



DPE2



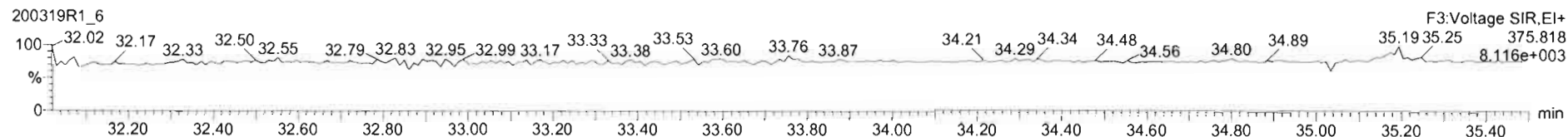
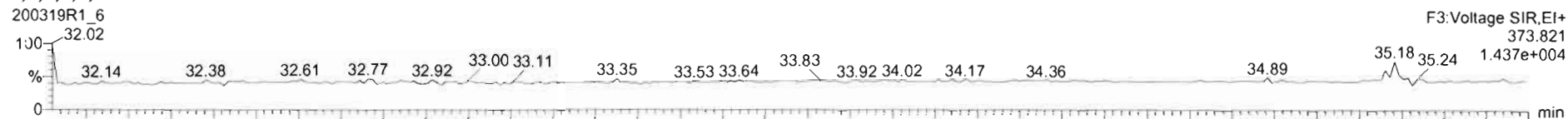
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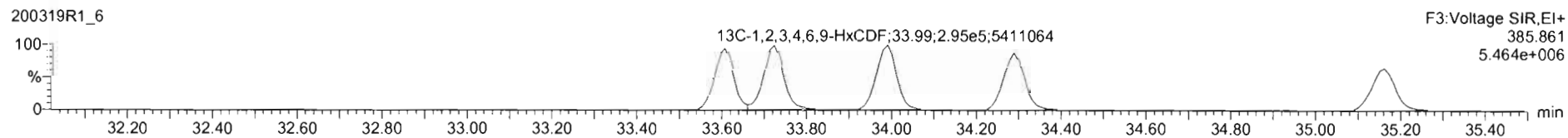
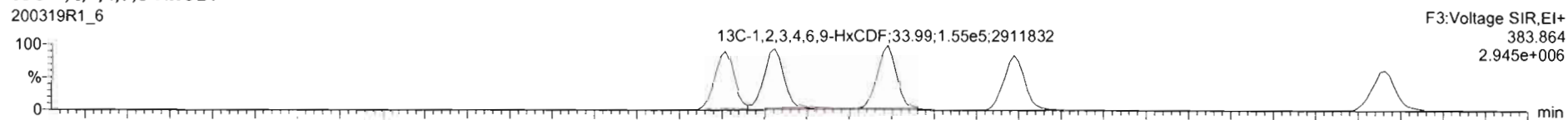
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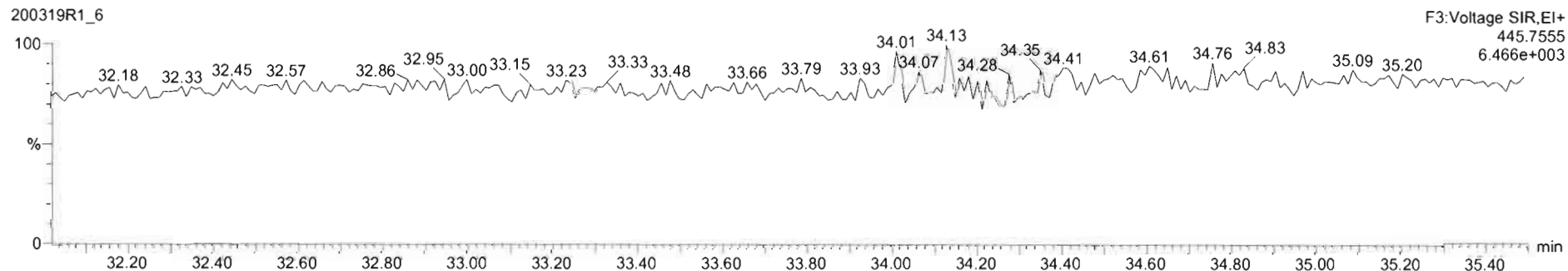
1,2,3,4,7,8-HxCDF



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



DPE3



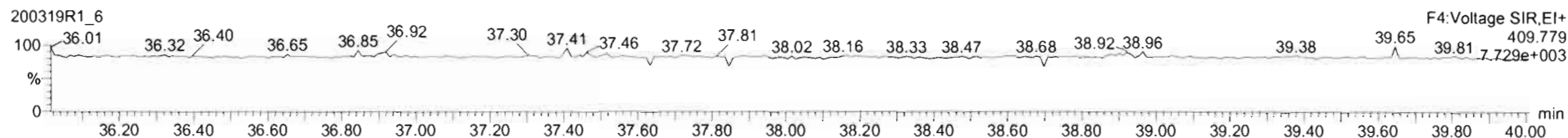
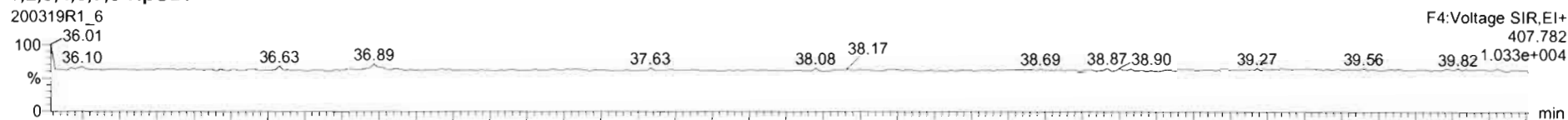
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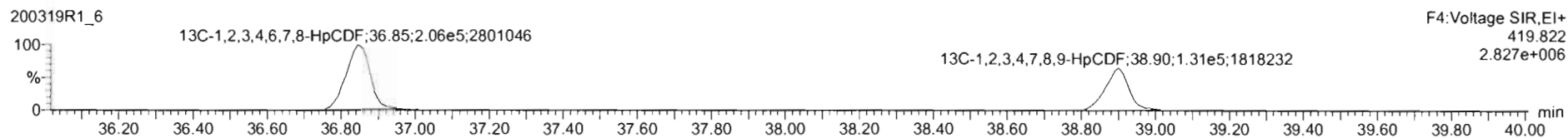
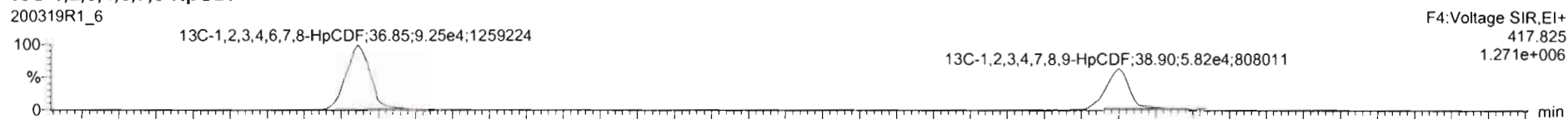
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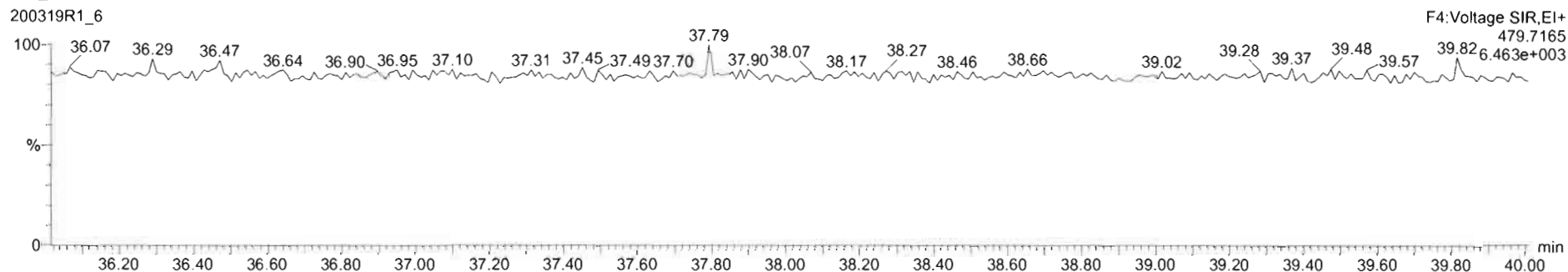
1,2,3,4,6,7,8-HpCDF



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



DPE4



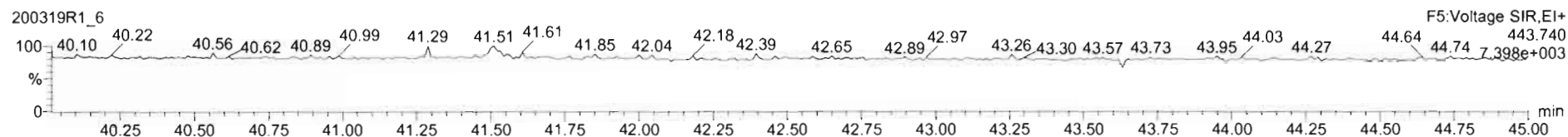
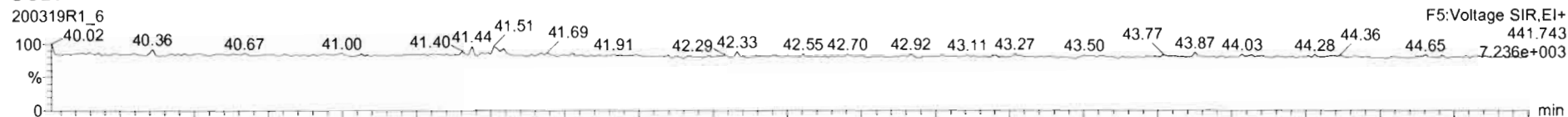
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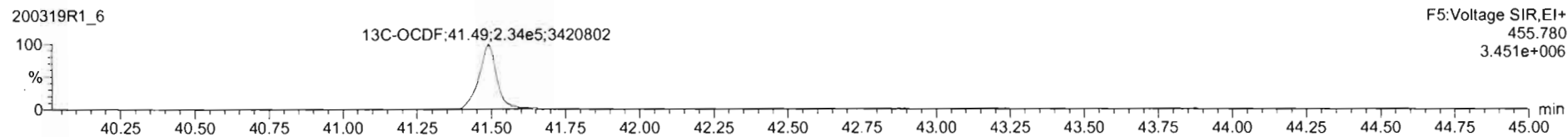
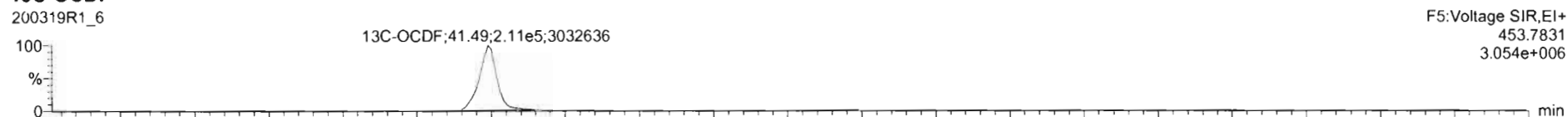
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Name: 200319R1_6, Date: 19-Mar-2020, Time: 20:17:51, ID: B0B0187-BLK1 Method Blank 10, Description: Method Blank

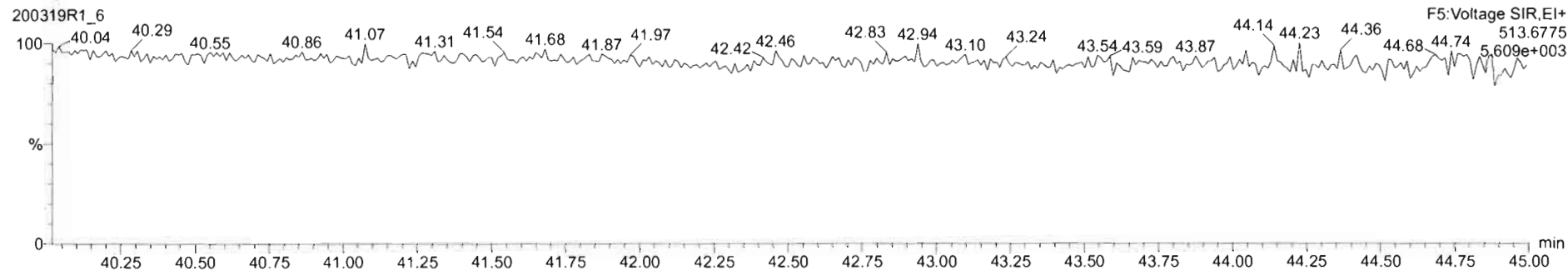
OCDF



13C-OCDF



DPE5

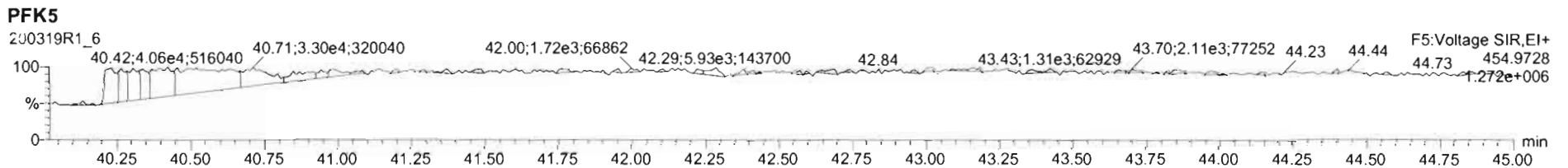
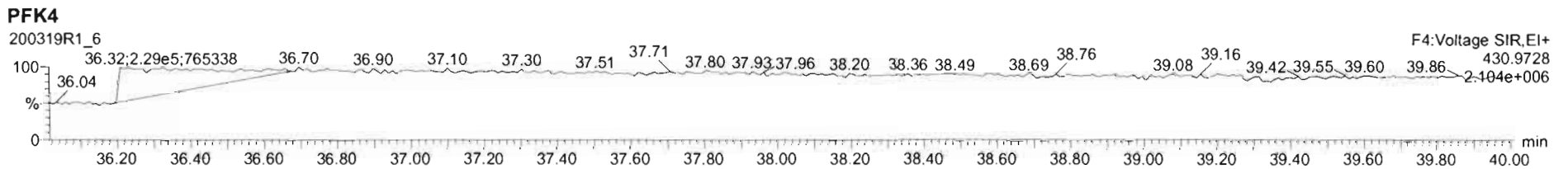
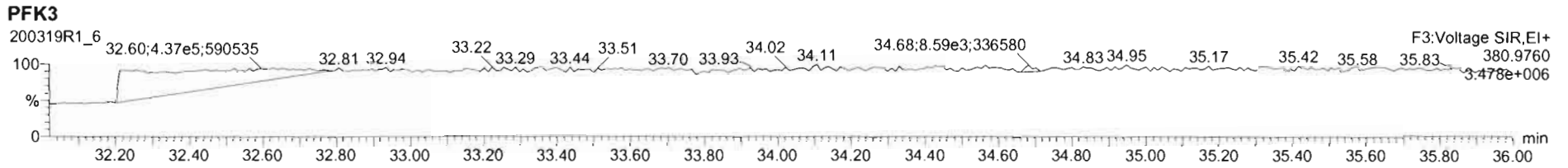
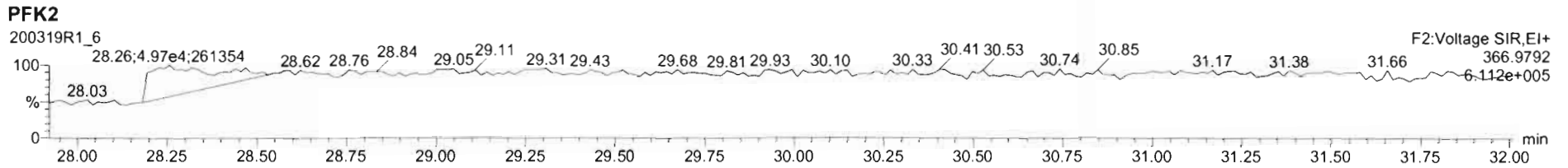
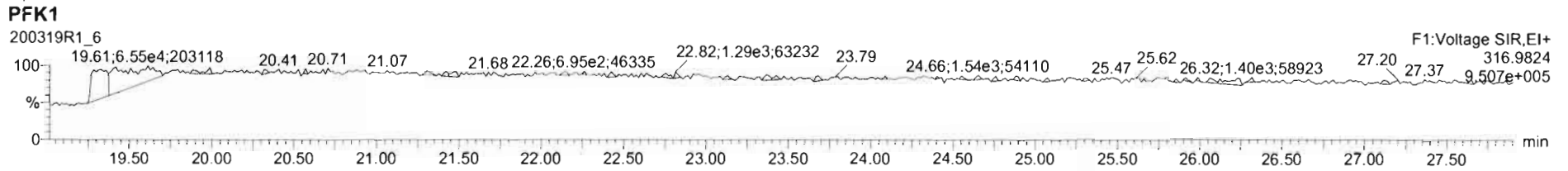


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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_6, Date: 19-Mar-2020, Time: 20:17:51, ID: B0B0187-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200319R1\200319R1-3.qld

Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time
Printed: Monday, March 23, 2020 08:45:49 Pacific Daylight Time

2003/23/2020

3/27/20

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_3, Date: 19-Mar-2020, Time: 17:54:46, ID: B0B0187-BS1 OPR 10, Description: OPR, Task: ST200319R1_2

2704/01/2020

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD	5.35e4	0.75	NO	0.983	10.000	25.80	1.001	18.878		0.104	18.9
2	1,2,3,7,8-PeCDD	1.83e5	0.62	NO	0.921	10.000	31.09	1.000	104.64		0.234	105
3	1,2,3,4,7,8-HxCDD	1.82e5	1.25	NO	1.13	10.000	34.50	1.001	101.01		0.225	101
4	1,2,3,6,7,8-HxCDD	1.91e5	1.27	NO	0.984	10.000	34.60	1.000	101.77		0.234	102
5	1,2,3,7,8,9-HxCDD	1.77e5	1.27	NO	0.967	10.000	34.86	1.000	101.34		0.254	101
6	1,2,3,4,6,7,8-HpCDD	1.20e5	1.03	NO	1.01	10.000	38.28	1.000	101.55		0.392	102
7	OCDD	2.09e5	0.90	NO	1.05	10.000	41.34	1.000	202.52		0.321	203
8	2,3,7,8-TCDF	7.21e4	0.78	NO	0.915	10.000	24.81	1.001	18.880		0.0798	18.9
9	1,2,3,7,8-PeCDF	3.09e5	1.51	NO	0.959	10.000	29.75	1.000	100.72		0.172	101
10	2,3,4,7,8-PeCDF	3.07e5	1.57	NO	1.00	10.000	30.77	1.000	103.17		0.161	103
11	1,2,3,4,7,8-HxCDF	2.33e5	1.21	NO	1.04	10.000	33.65	1.000	96.988		0.218	97.0
12	1,2,3,6,7,8-HxCDF	2.51e5	1.22	NO	1.01	10.000	33.77	1.000	96.239		0.204	96.2
13	2,3,4,6,7,8-HxCDF	2.00e5	1.24	NO	1.09	10.000	34.33	1.000	92.423		0.253	92.4
14	1,2,3,7,8,9-HxCDF	1.97e5	1.25	NO	1.03	10.000	35.21	1.000	96.685		0.295	96.7
15	1,2,3,4,6,7,8-HpCDF	1.74e5	1.00	NO	1.05	10.000	36.90	1.000	94.114		0.303	94.1
16	1,2,3,4,7,8,9-HpCDF	1.25e5	0.99	NO	1.21	10.000	38.94	1.000	92.561		0.421	92.6
17	OCDF	2.42e5	0.87	NO	0.947	10.000	41.53	1.000	198.09		0.360	198
18	13C-2,3,7,8-TCDD	5.76e5	0.81	NO	1.18	10.000	25.78	1.029	161.29	80.6	0.324	
19	13C-1,2,3,7,8-PeCDD	3.80e5	0.64	NO	0.864	10.000	31.08	1.241	145.84	72.9	0.344	
20	13C-1,2,3,4,7,8-HxCDD	3.19e5	1.30	NO	0.754	10.000	34.48	1.013	154.07	77.0	0.356	
21	13C-1,2,3,6,7,8-HxCDD	3.81e5	1.30	NO	0.925	10.000	34.59	1.017	149.95	75.0	0.290	
22	13C-1,2,3,7,8,9-HxCDD	3.60e5	1.23	NO	0.829	10.000	34.85	1.024	158.28	79.1	0.324	
23	13C-1,2,3,4,6,7,8-HpCDD	2.35e5	1.05	NO	0.598	10.000	38.27	1.125	143.39	71.7	0.351	
24	13C-OCDD	3.93e5	0.94	NO	0.571	10.000	41.34	1.215	250.72	62.7	0.488	
25	13C-2,3,7,8-TCDF	8.34e5	0.79	NO	1.09	10.000	24.78	0.989	138.67	69.3	0.368	
26	13C-1,2,3,7,8-PeCDF	6.39e5	1.59	NO	0.876	10.000	29.74	1.187	131.99	66.0	0.402	
27	13C-2,3,4,7,8-PeCDF	5.92e5	1.62	NO	0.844	10.000	30.76	1.228	127.18	63.6	0.418	
28	13C-1,2,3,4,7,8-HxCDF	4.62e5	0.51	NO	1.00	10.000	33.64	0.989	168.34	84.2	0.449	
29	13C-1,2,3,6,7,8-HxCDF	5.16e5	0.51	NO	1.12	10.000	33.76	0.992	168.09	84.0	0.401	
30	13C-2,3,4,6,7,8-HxCDF	3.97e5	0.52	NO	1.04	10.000	34.32	1.009	139.58	69.8	0.433	
31	13C-1,2,3,7,8,9-HxCDF	3.98e5	0.52	NO	0.873	10.000	35.19	1.034	165.99	83.0	0.514	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-3.qld

Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time
Printed: Monday, March 23, 2020 08:45:49 Pacific Daylight Time

Name: 200319R1_3, Date: 19-Mar-2020, Time: 17:54:46, ID: B0B0187-BS1 OPR 10, Description: OPR, Task: ST200319R1_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.53e5	0.44	NO	0.771	10.000	36.89	1.084	166.69	83.3	0.483	
33	13C-1,2,3,4,7,8,9-HpCDF	2.23e5	0.42	NO	0.519	10.000	38.92	1.144	156.68	78.3	0.718	
34	13C-OCDF	5.16e5	0.90	NO	0.696	10.000	41.51	1.220	270.25	67.6	0.376	
35	37Cl-2,3,7,8-TCDD	2.51e5			1.17	10.000	25.81	1.031	70.805	88.5	0.0419	
36	13C-1,2,3,4-TCDD	6.04e5	0.82	NO	1.00	10.000	25.05	1.000	200.00	100	0.383	
37	13C-1,2,3,4-TCDF	1.10e6	0.80	NO	1.00	10.000	23.10	1.000	200.00	100	0.401	
38	13C-1,2,3,4,6,9-HxCDF	5.49e5	0.52	NO	1.00	10.000	34.02	1.000	200.00	100	0.449	
39	Total Tetra-Dioxins				0.983	10.000			18.878		0.104	19.2
40	Total Penta-Dioxins				0.921	10.000			104.64		0.234	105
41	Total Hexa-Dioxins				0.984	10.000			304.12		0.247	304
42	Total Hepta-Dioxins				1.01	10.000			102.46		0.392	102
43	Total Tetra-Furans				0.915	10.000			18.880		0.0798	19.0
44	1st Func. Penta-Furans				0.959	10.000					0.0229	
45	Total Penta-Furans				0.959	10.000			203.89		0.170	205
46	Total Hexa-Furans				1.09	10.000			382.52		0.228	383
47	Total Hepta-Furans				1.05	10.000			186.67		0.374	187

Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

2003/23/2020

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

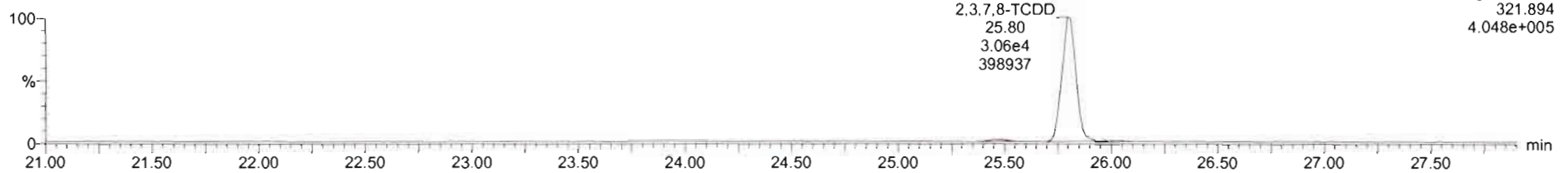
Name: 200319R1_3, Date: 19-Mar-2020, Time: 17:54:46, ID: B0B0187-BS1 OPR 10, Description: OPR

2,3,7,8-TCDD

200319R1_3

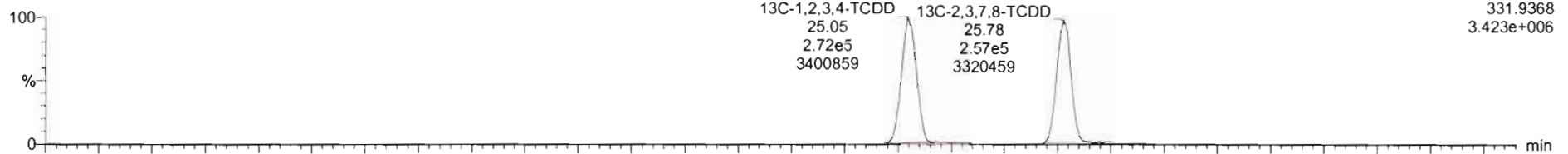


200319R1_3

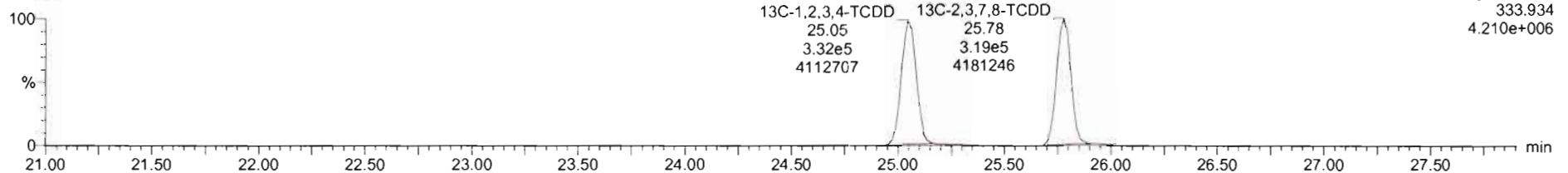


13C-2,3,7,8-TCDD

200319R1_3



200319R1_3



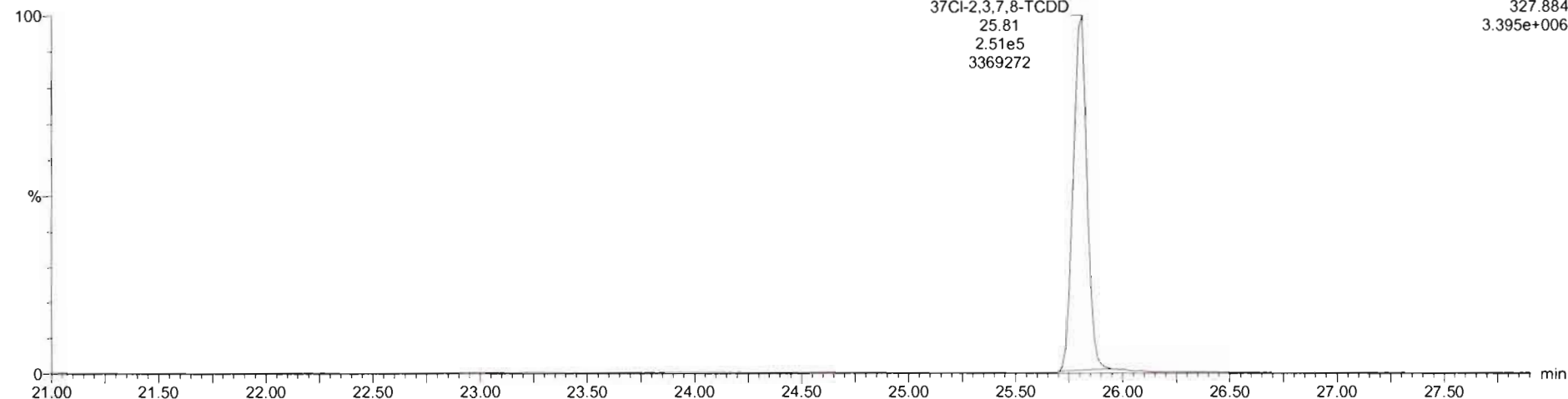
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Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

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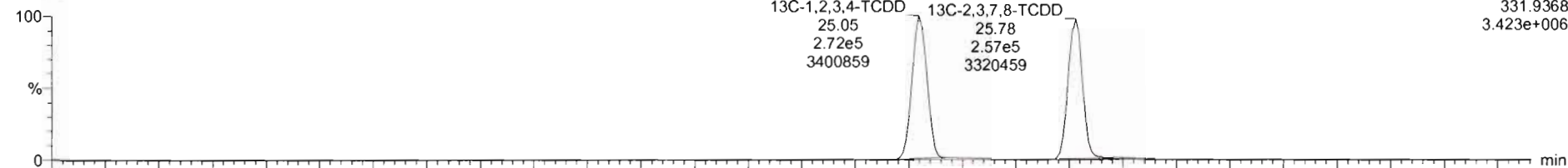
37Cl-2,3,7,8-TCDD

200319R1_3

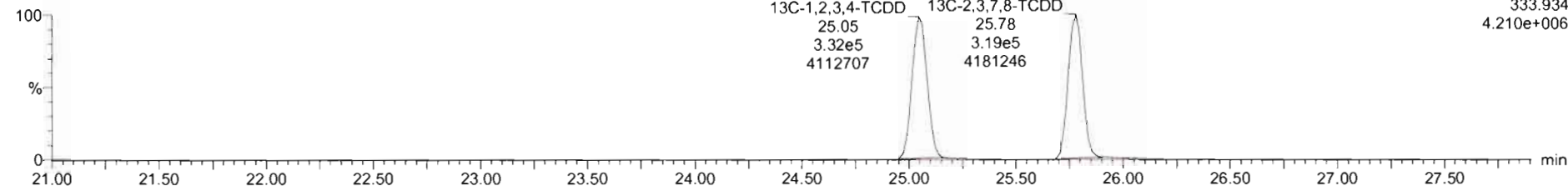


13C-1,2,3,4-TCDD

200319R1_3



200319R1_3



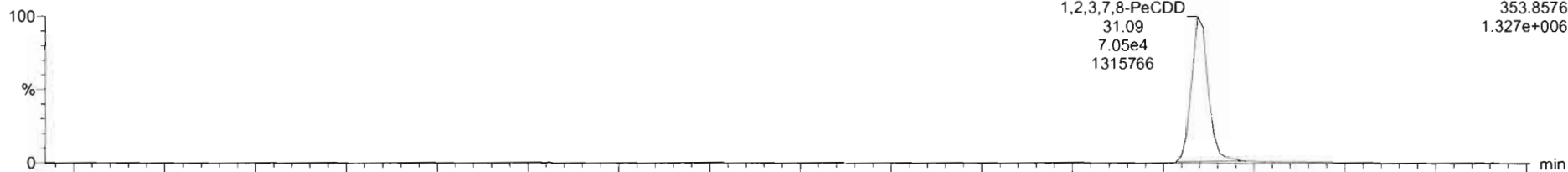
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Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

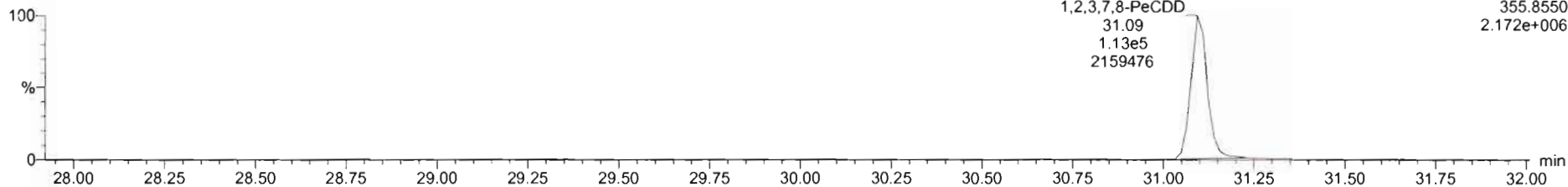
Name: 200319R1_3, Date: 19-Mar-2020, Time: 17:54:46, ID: B0B0187-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDD

200319R1_3

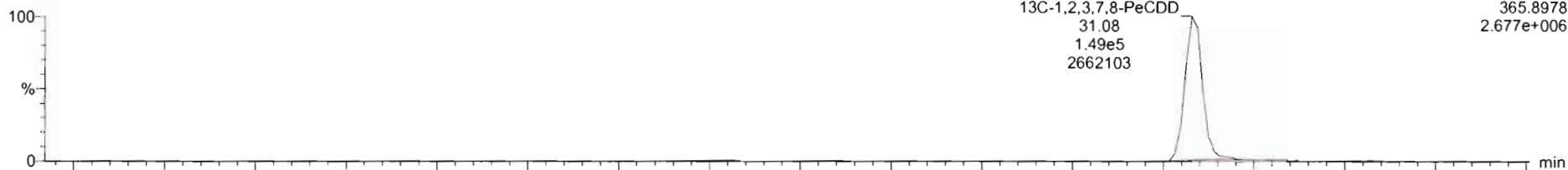


200319R1_3

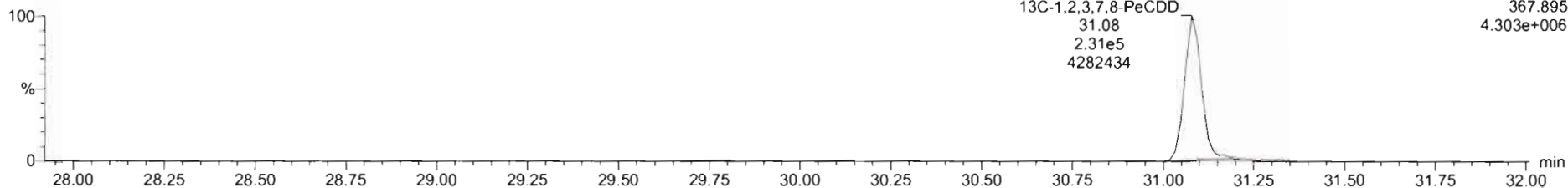


¹³C-1,2,3,7,8-PeCDD

200319R1_3



200319R1_3



Dataset: Untitled

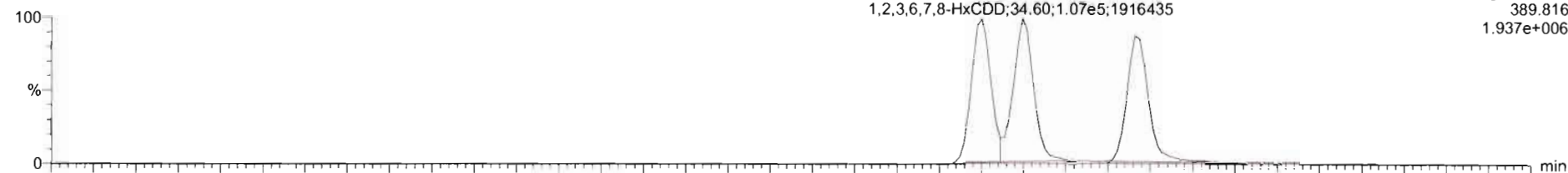
Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

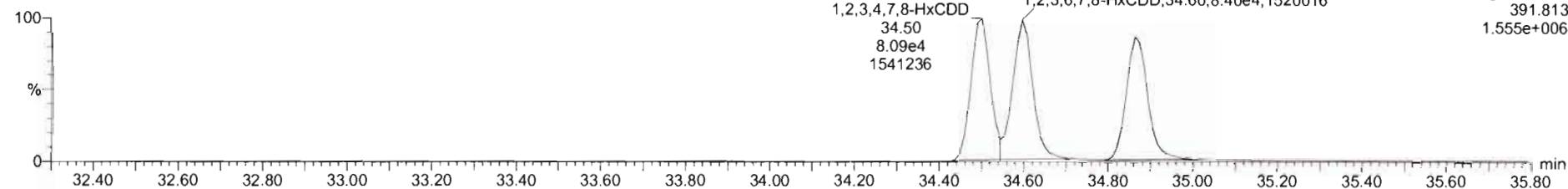
Name: 200319R1_3, Date: 19-Mar-2020, Time: 17:54:46, ID: B0B0187-BS1 OPR 10, Description: OPR

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

200319R1_3

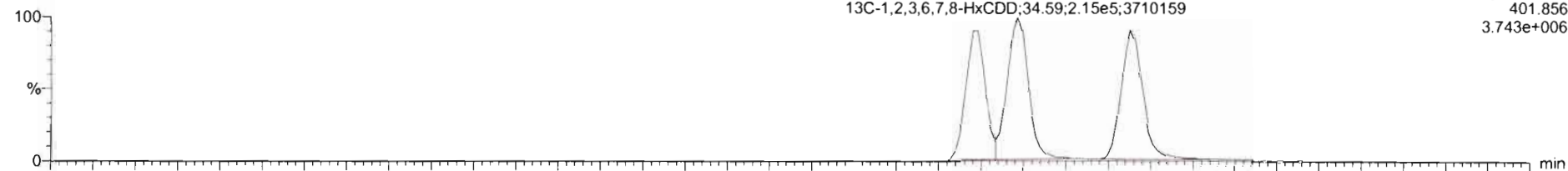


200319R1_3

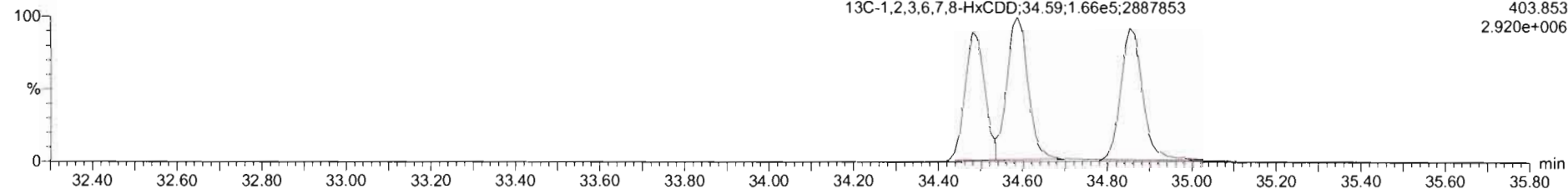


13C-1,2,3,4,7,8-HxCDD

200319R1_3



200319R1_3



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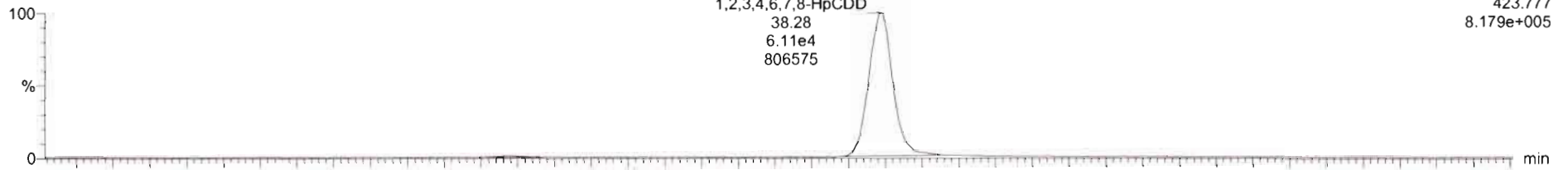
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Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

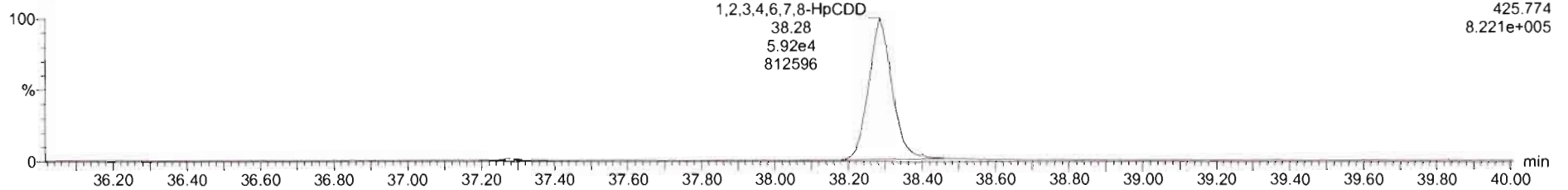
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1,2,3,4,6,7,8-HpCDD

200319R1_3

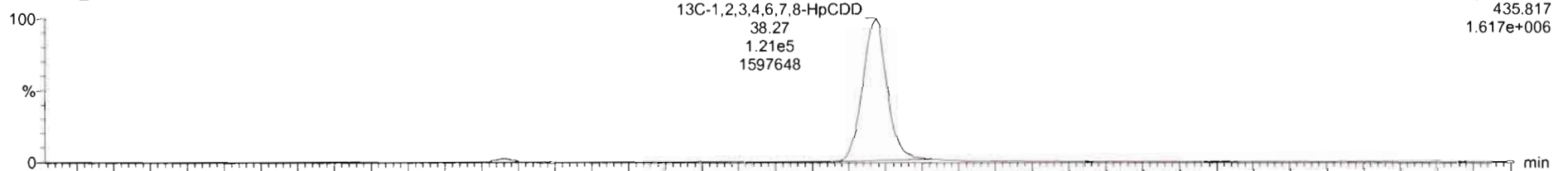


200319R1_3

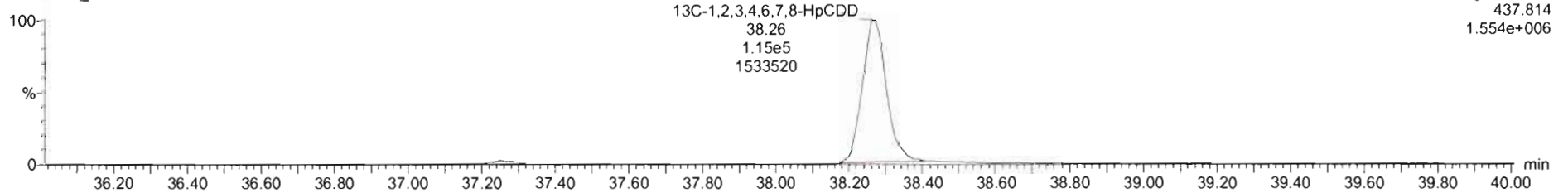


13C-1,2,3,4,6,7,8-HpCDD

200319R1_3



200319R1_3



Dataset: Untitled

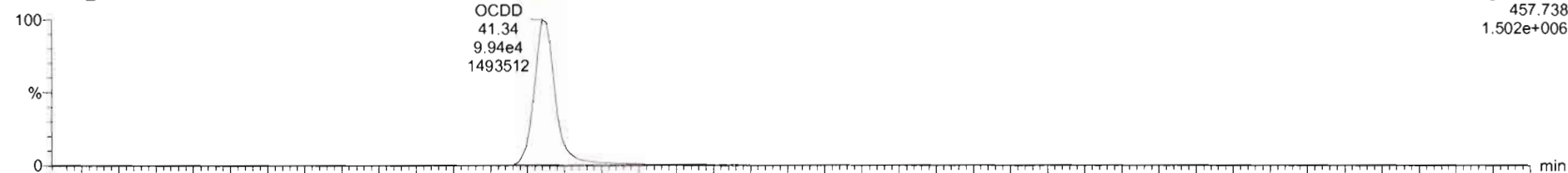
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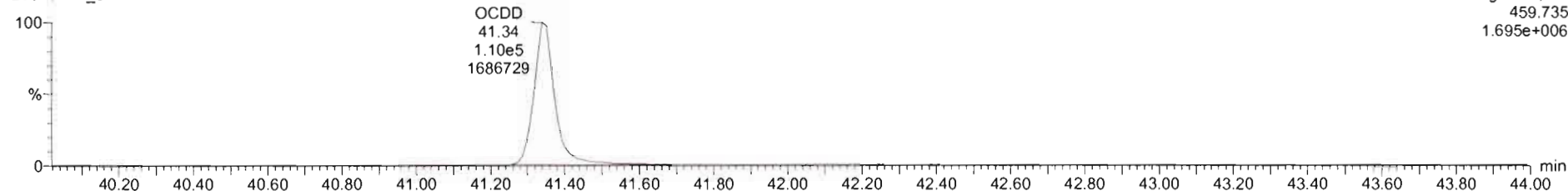
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OCDD

200319R1_3

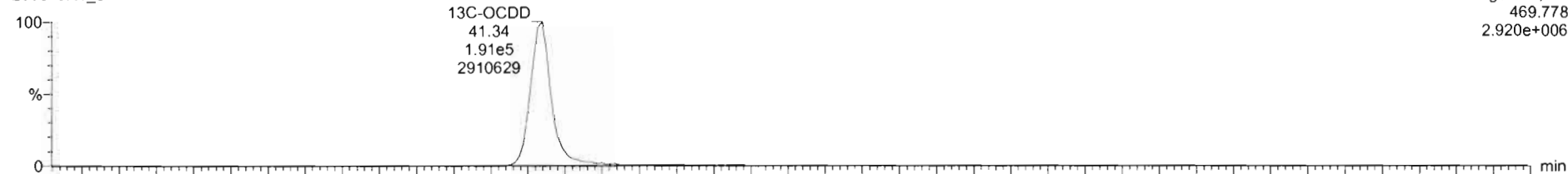


200319R1_3

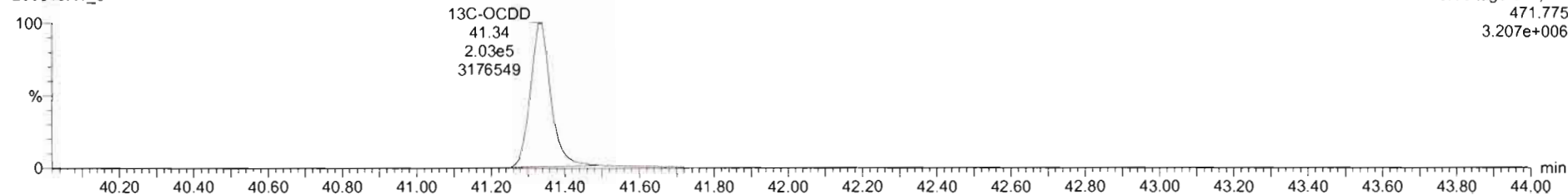


13C-OCDD

200319R1_3



200319R1_3



Dataset: Untitled

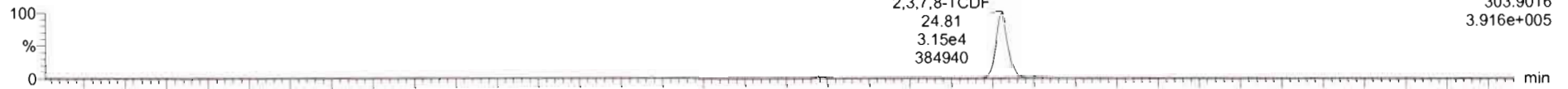
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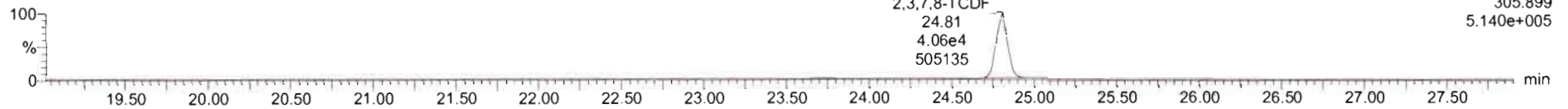
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2,3,7,8-TCDF

200319R1_3



200319R1_3

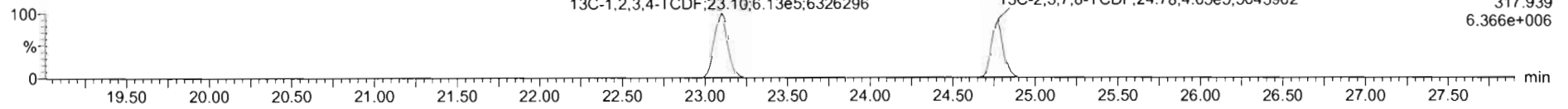


13C-2,3,7,8-TCDF

200319R1_3

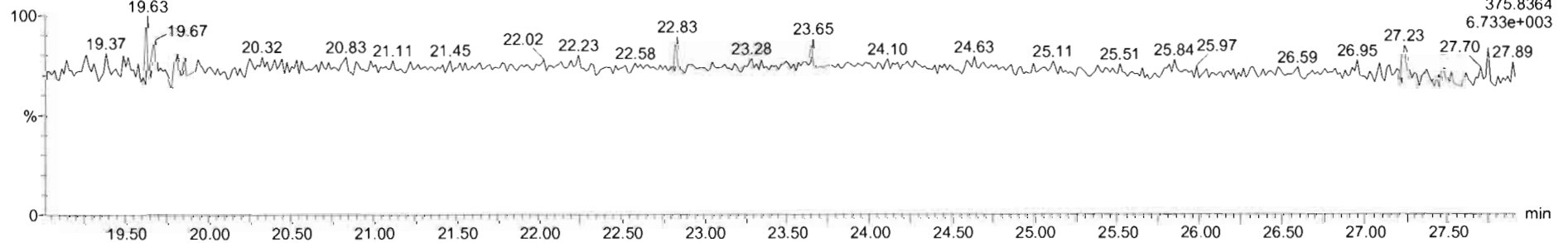


200319R1_3



DPE1

200319R1_3



Dataset: Untitled

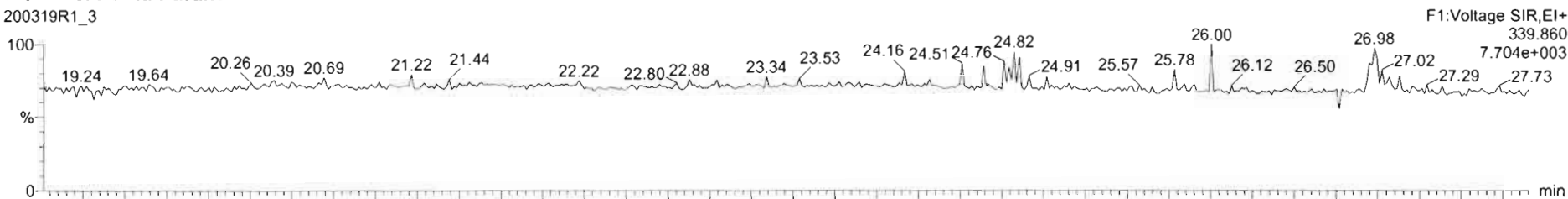
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Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

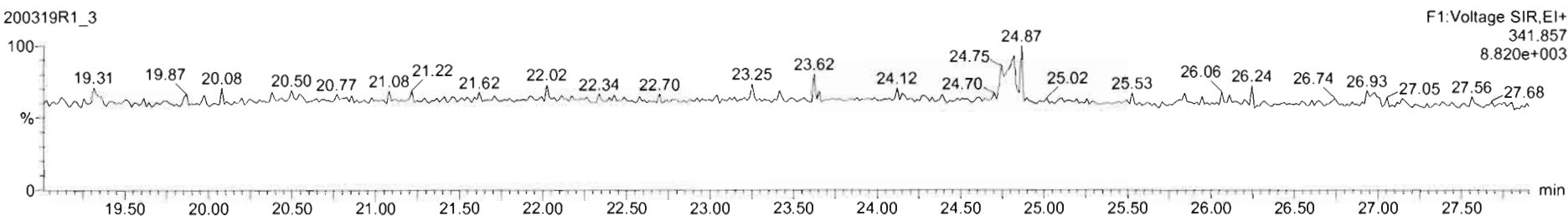
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1st Func. Penta-Furans

200319R1_3

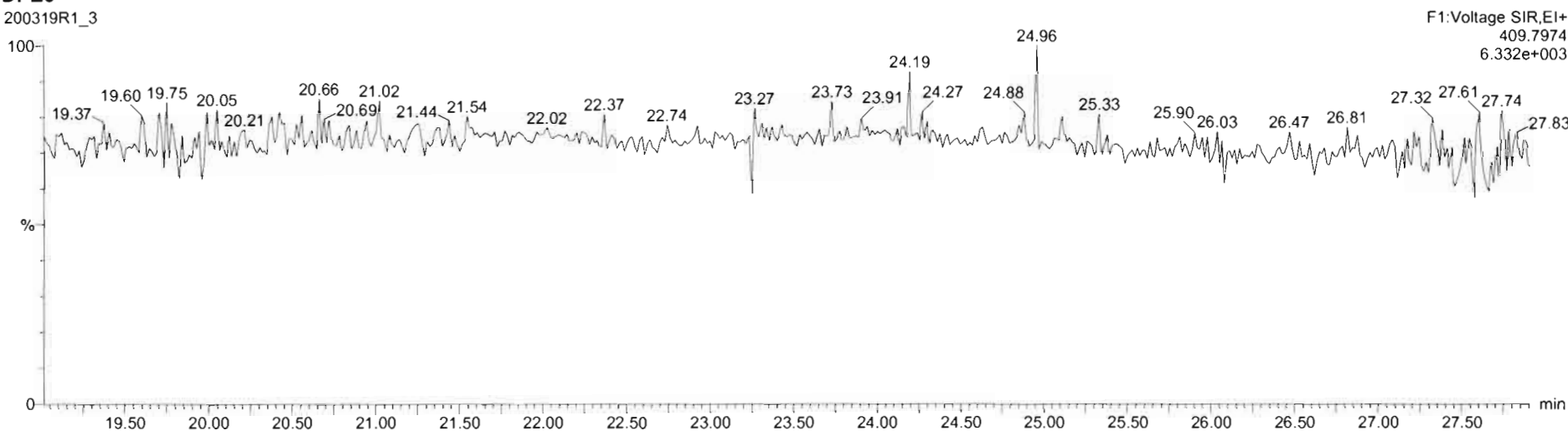


200319R1_3



DPE6

200319R1_3



Dataset: Untitled

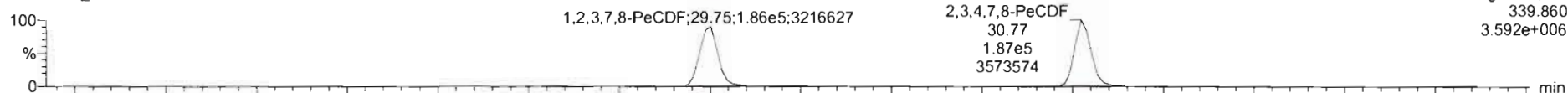
Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

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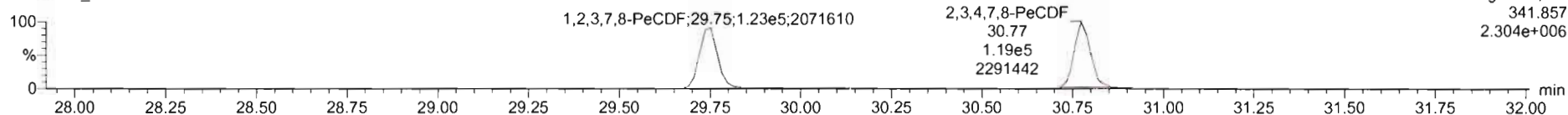
1,2,3,7,8-PeCDF

200319R1_3



F2:Voltage SIR,EI+
339.860
3.592e+006

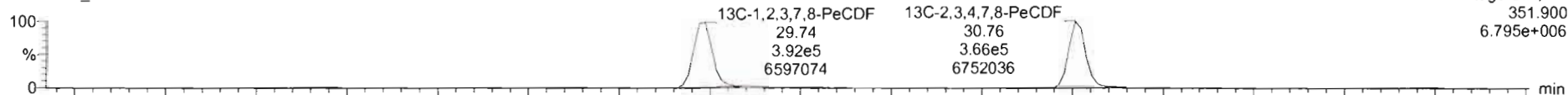
200319R1_3



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2.304e+006

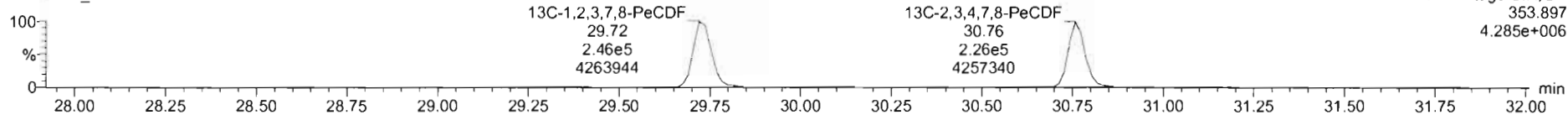
13C-1,2,3,7,8-PeCDF

200319R1_3



F2:Voltage SIR,EI+
351.900
6.795e+006

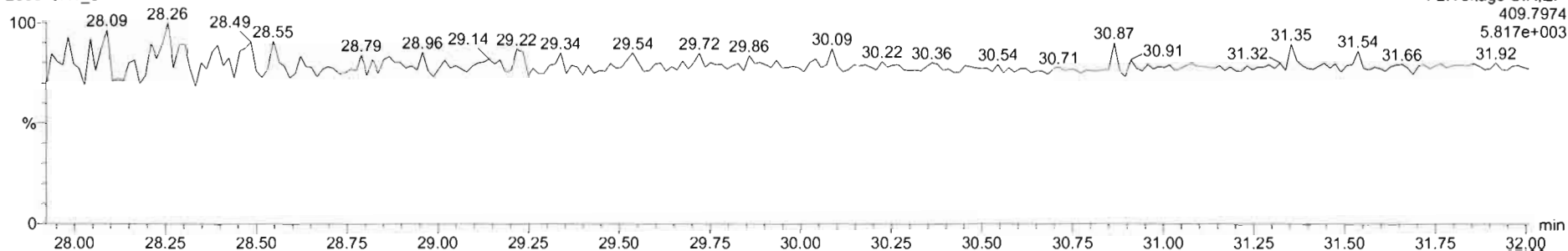
200319R1_3



F2:Voltage SIR,EI+
353.897
4.285e+006

DPE2

200319R1_3



F2:Voltage SIR,EI+
409.7974
5.817e+003

Dataset: Untitled

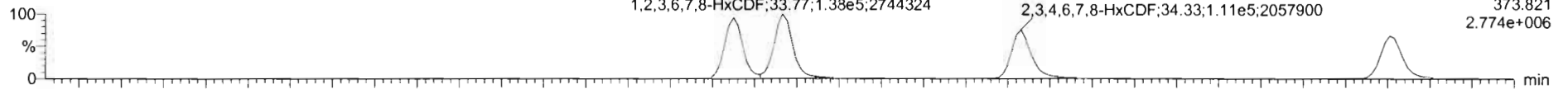
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Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

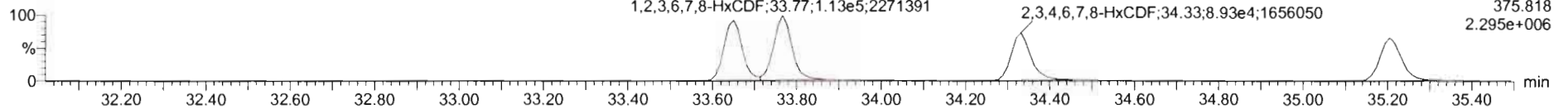
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1,2,3,4,7,8-HxCDF

200319R1_3

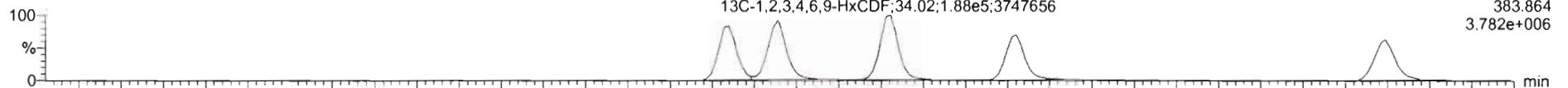


200319R1_3

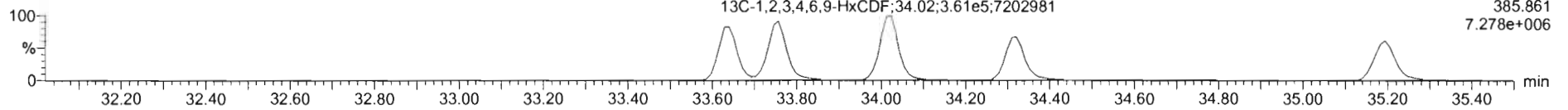


13C-1,2,3,4,7,8-HxCDF

200319R1_3

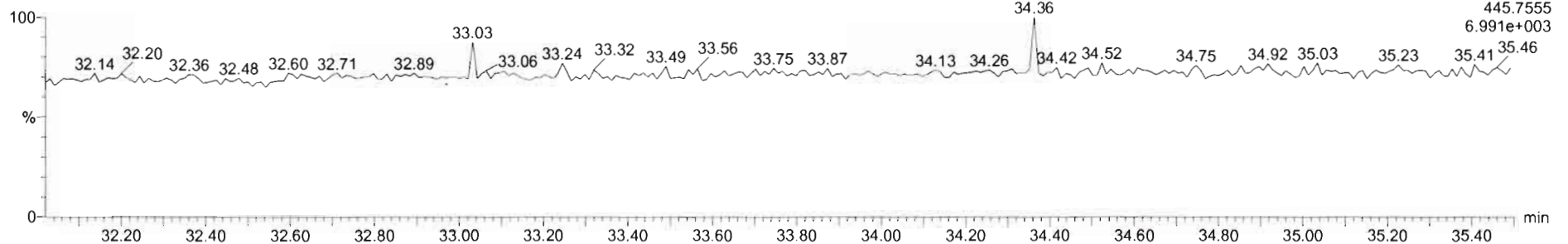


200319R1_3



DPE3

200319R1_3



Dataset: Untitled

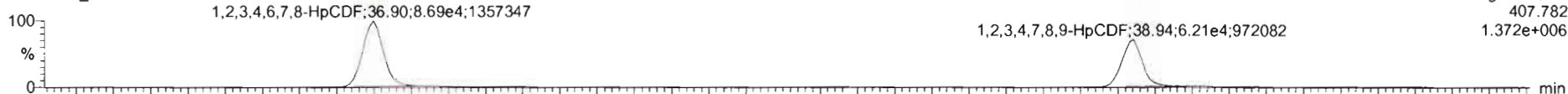
Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

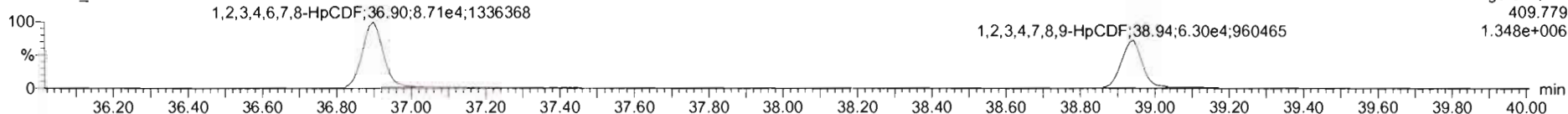
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1,2,3,4,6,7,8-HpCDF

200319R1_3

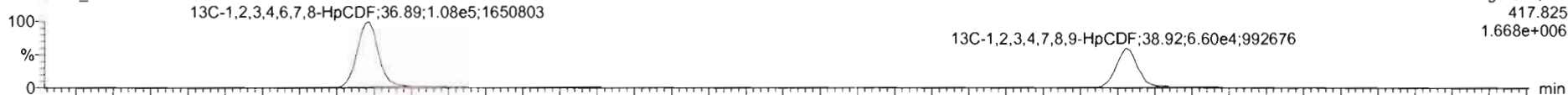


200319R1_3

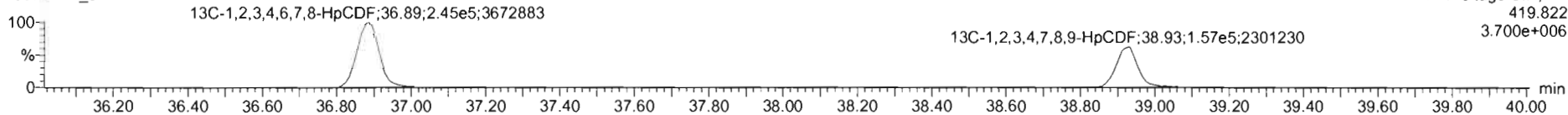


13C-1,2,3,4,6,7,8-HpCDF

200319R1_3

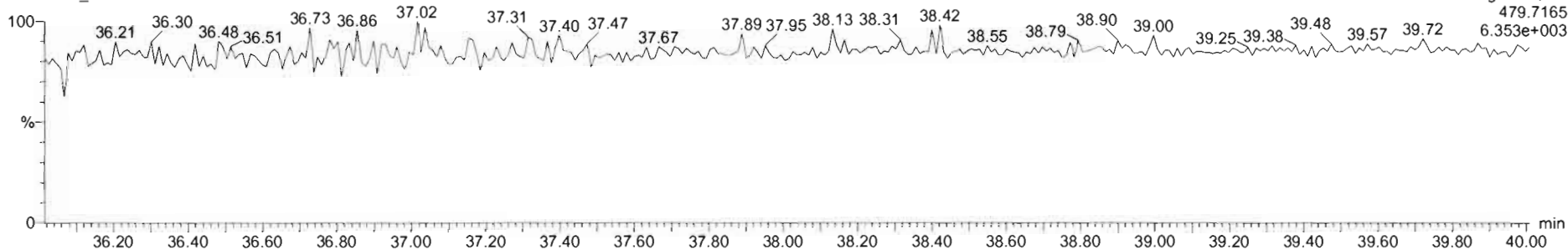


200319R1_3



DPE4

200319R1_3

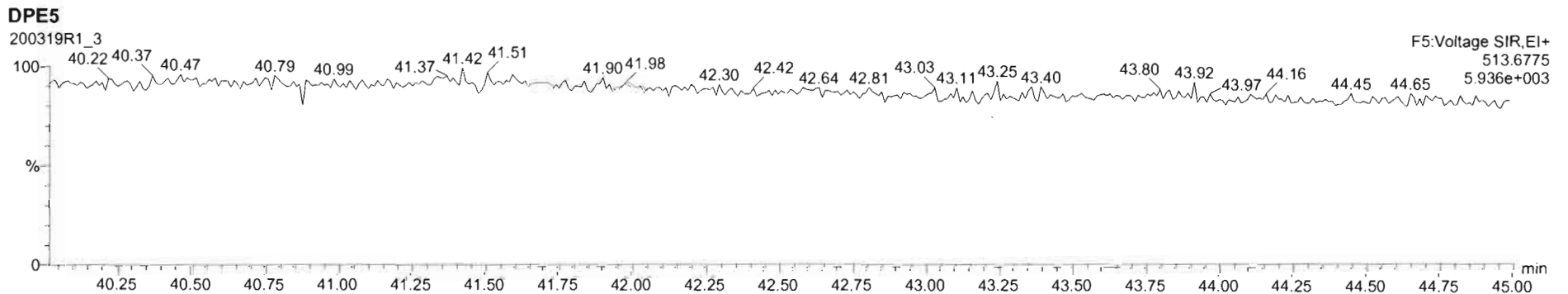
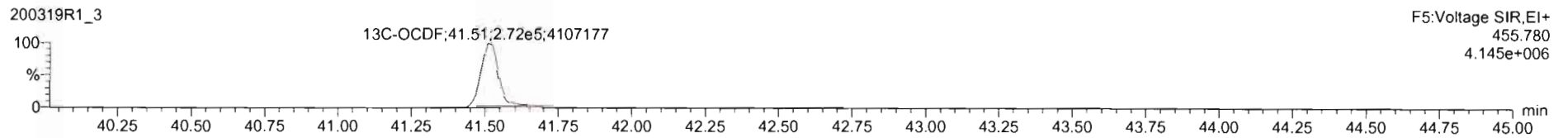
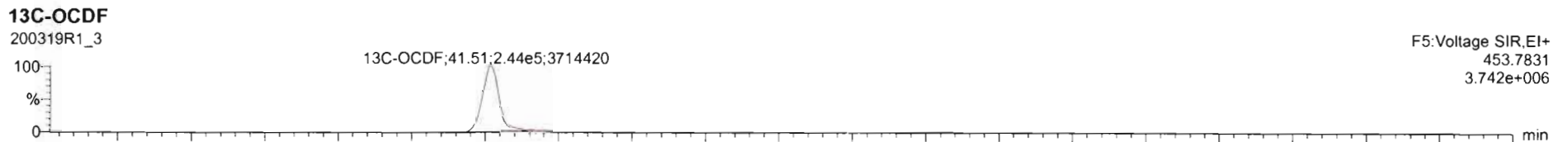
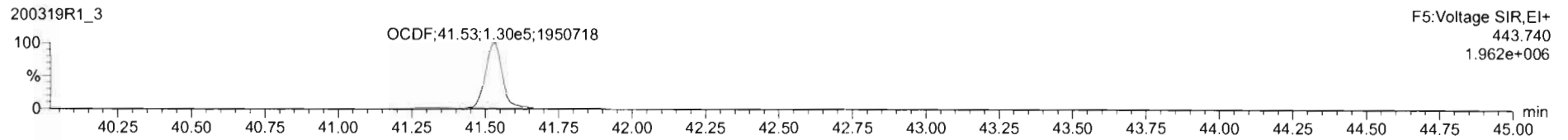
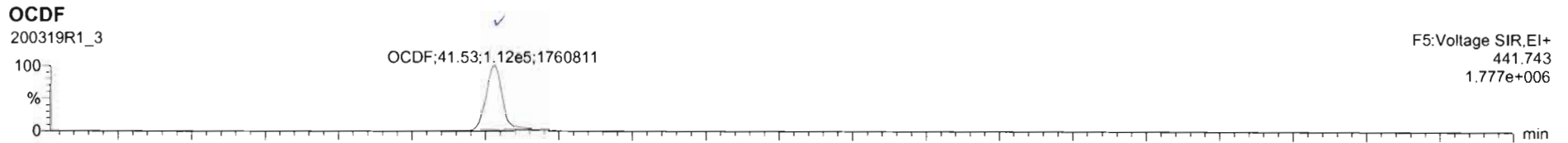


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Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

Name: 200319R1_3, Date: 19-Mar-2020, Time: 17:54:46, ID: B0B0187-BS1 OPR 10, Description: OPR

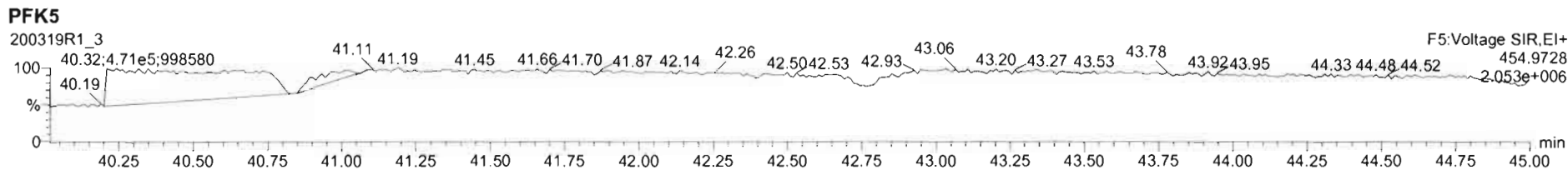
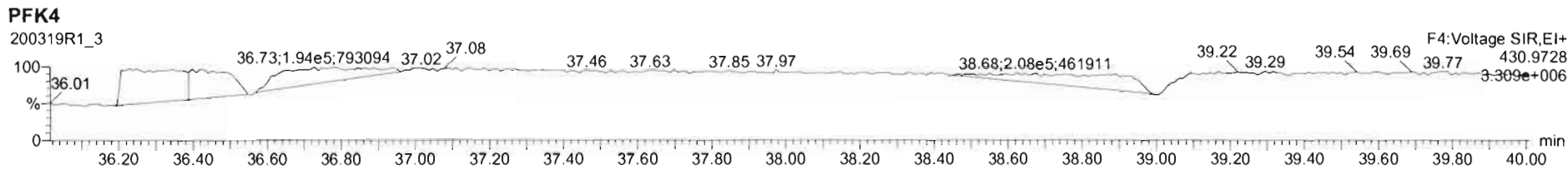
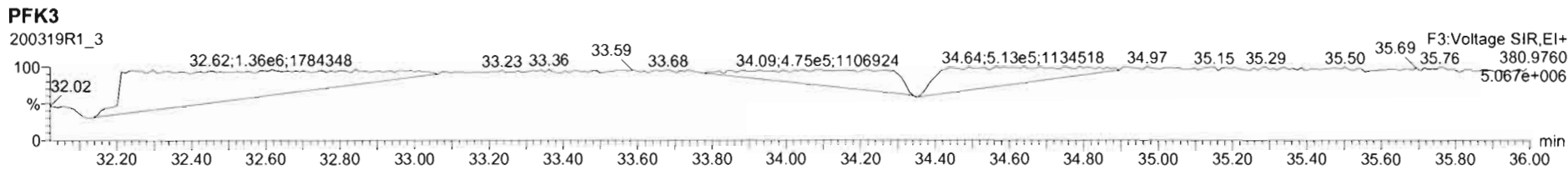
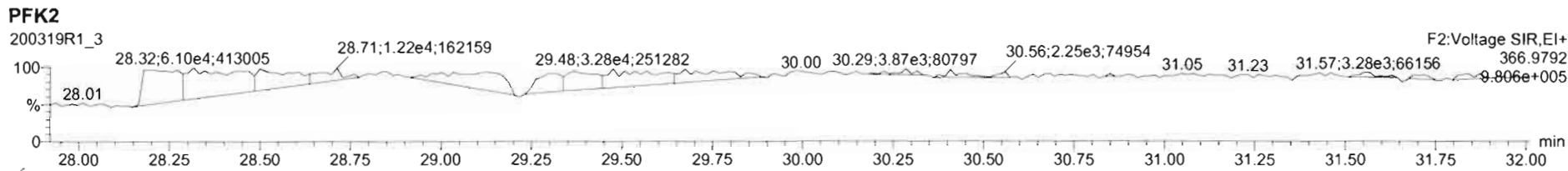
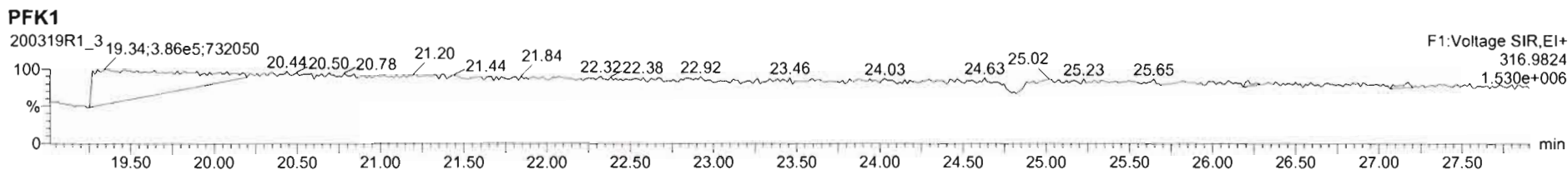


Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:44:17 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:44:34 Pacific Daylight Time

Name: 200319R1_3, Date: 19-Mar-2020, Time: 17:54:46, ID: B0B0187-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200319R1\200319R1-10.qld

Last Altered: Wednesday, March 25, 2020 7:31:20 AM Pacific Daylight Time

Printed: Wednesday, March 25, 2020 7:34:08 AM Pacific Daylight Time

dy 03-25-2020

JA 3/27/20 @ 104/01/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_10, Date: 19-Mar-2020, Time: 23:28:38, ID: 2000195-01 PDI-062SC-A-10-11-191023 12.2, Description: PDI-062SC-A-10-11-191023

#	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	0.983	10.009	25.781		1.001				0.129	
2	2 1,2,3,7,8-PeCDD			NO	0.921	10.009	31.085		1.001				0.119	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.009	34.480		1.000				0.116	
4	4 1,2,3,6,7,8-HxCDD			NO	0.984	10.009	34.566		1.000				0.117	
5	5 1,2,3,7,8,9-HxCDD			NO	0.967	10.009	34.842		1.000				0.132	
6	6 1,2,3,4,6,7,8-HpCDD	8.74e2	0.96	NO	1.01	10.009	38.272	38.29	1.000	1.001	0.94878		0.232	0.949
7	7 OCDD	6.21e3	0.96	NO	1.05	10.009	41.329	41.34	1.000	1.000	7.6743		0.156	7.67
8	8 2,3,7,8-TCDF			NO	0.915	10.009	24.772		1.001				0.0670	
9	9 1,2,3,7,8-PeCDF			NO	0.959	10.009	29.727		1.001				0.0745	
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.009	30.774		1.001				0.0683	
11	11 1,2,3,4,7,8-HxCDF			NO	1.04	10.009	33.618		1.000				0.0611	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.009	33.745		1.000				0.0634	
13	13 2,3,4,6,7,8-HxCDF			NO	1.09	10.009	34.333		1.001				0.0619	
14	14 1,2,3,7,8,9-HxCDF			NO	1.03	10.009	35.173		1.000				0.0836	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.009	36.903		1.001				0.0833	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.21	10.009	38.922		1.000				0.112	
17	17 OCDF			NO	0.947	10.009	41.510		1.000				0.118	
18	18 13C-2,3,7,8-TCDD	3.53e5	0.81	NO	1.18	10.009	25.750	25.75	1.029	1.029	172.04	86.1	0.409	
19	19 13C-1,2,3,7,8-PeCDD	2.25e5	0.64	NO	0.864	10.009	30.937	31.06	1.236	1.241	150.31	75.2	0.442	
20	20 13C-1,2,3,4,7,8-HxCDD	1.98e5	1.31	NO	0.754	10.009	34.474	34.47	1.014	1.014	148.92	74.5	0.540	
21	21 13C-1,2,3,6,7,8-HxCDD	2.29e5	1.29	NO	0.925	10.009	34.582	34.57	1.017	1.017	140.35	70.2	0.440	
22	22 13C-1,2,3,7,8,9-HxCDD	2.23e5	1.30	NO	0.829	10.009	34.844	34.83	1.025	1.024	152.81	76.5	0.491	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.83e5	1.01	NO	0.598	10.009	38.306	38.26	1.127	1.125	173.62	86.9	0.610	
24	24 13C-OCDD	3.08e5	0.93	NO	0.571	10.009	41.457	41.33	1.219	1.216	305.82	76.5	0.668	
25	25 13C-2,3,7,8-TCDF	5.58e5	0.80	NO	1.09	10.009	24.772	24.75	0.990	0.989	157.01	78.6	0.465	
26	26 13C-1,2,3,7,8-PeCDF	3.81e5	1.63	NO	0.876	10.009	29.608	29.71	1.183	1.187	133.22	66.7	0.722	
27	27 13C-2,3,4,7,8-PeCDF	3.63e5	1.60	NO	0.844	10.009	30.619	30.74	1.223	1.228	131.99	66.1	0.750	
28	28 13C-1,2,3,4,7,8-HxCDF	3.03e5	0.52	NO	1.00	10.009	33.620	33.62	0.989	0.989	172.23	86.2	0.545	
29	29 13C-1,2,3,6,7,8-HxCDF	3.24e5	0.53	NO	1.12	10.009	33.729	33.74	0.992	0.992	164.78	82.5	0.488	
30	30 13C-2,3,4,6,7,8-HxCDF	3.16e5	0.51	NO	1.04	10.009	34.310	34.30	1.009	1.009	173.20	86.7	0.527	
31	31 13C-1,2,3,7,8,9-HxCDF	2.73e5	0.51	NO	0.873	10.009	35.184	35.17	1.035	1.034	177.63	88.9	0.625	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-10.qld

Last Altered: Wednesday, March 25, 2020 7:31:20 AM Pacific Daylight Time

Printed: Wednesday, March 25, 2020 7:34:08 AM Pacific Daylight Time

Name: 200319R1_10, Date: 19-Mar-2020, Time: 23:28:38, ID: 2000195-01 PDI-062SC-A-10-11-191023 12.2, Description: PDI-062SC-A-10-11-191023

#	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	2.48e5	0.44	NO	0.771	10.009	36.901	36.87	1.085	1.084	182.75	91.5	0.519	
33	13C-1,2,3,4,7,8,9-HpCDF	1.74e5	0.44	NO	0.519	10.009	38.989	38.92	1.147	1.145	190.06	95.1	0.770	
34	13C-OCDF	4.14e5	0.93	NO	0.696	10.009	41.638	41.51	1.225	1.221	337.49	84.4	0.483	
35	37Cl-2,3,7,8-TCDD	1.55e5			1.17	10.009	25.760	25.78	1.029	1.030	76.204	95.3	0.0812	
36	13C-1,2,3,4-TCDD	3.46e5	0.82	NO	1.00	10.009	25.050	25.03	1.000	1.000	199.82	100	0.484	
37	13C-1,2,3,4-TCDF	6.52e5	0.81	NO	1.00	10.009	23.190	23.07	1.000	1.000	199.82	100	0.506	
38	13C-1,2,3,4,6,9-HxCDF	3.52e5	0.52	NO	1.00	10.009	33.880	34.00	1.000	1.000	199.82	100	0.545	
39	Total Tetra-Dioxins				0.983	10.009	24.620		0.000				0.0742	
40	Total Penta-Dioxins				0.921	10.009	29.960		0.000				0.0535	
41	Total Hexa-Dioxins				0.984	10.009	33.635		0.000		0.64574		0.126	1.01
42	Total Hepta-Dioxins				1.01	10.009	37.640		0.000		2.6352		0.232	2.64
43	Total Tetra-Furans				0.915	10.009	23.610		0.000				0.0310	
44	1st Func. Penta-Furans				0.959	10.009	27.090		0.000				0.0223	
45	Total Penta-Furans				0.959	10.009	29.275		0.000				0.0358	
46	Total Hexa-Furans				1.09	10.009	33.555		0.000				0.0334	
47	Total Hepta-Furans				1.05	10.009	37.835		0.000				0.0482	

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Dataset: U:\VG12.PRO\Results\200319R1\200319R1-10.qld

Last Altered: Wednesday, March 25, 2020 7:31:20 AM Pacific Daylight Time

Printed: Wednesday, March 25, 2020 7:34:08 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_10, Date: 19-Mar-2020, Time: 23:28:38, ID: 2000195-01 PDI-062SC-A-10-11-191023 12.2, Description: PDI-062SC-A-10-11-191023

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	8.862e3	6.785e3	3.915e2	2.973e2	1.32	NO	6.888e2	0.64574	0.64574	0.126
2	Total Hexa-Dioxins	33.83	3.730e3	3.253e3	2.021e2	1.889e2	1.07	NO	0.000e0	0.00000	0.36656	0.126

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.25	1.230e4	1.202e4	7.906e2	7.622e2	1.04	NO	1.553e3	1.6864	1.6864	0.232
2	1,2,3,4,6,7,8-HpCDD	38.29	6.566e3	6.978e3	4.285e2	4.451e2	0.96	NO	8.736e2	0.94878	0.94878	0.232

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\200319R1\200319R1-10.qld

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Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

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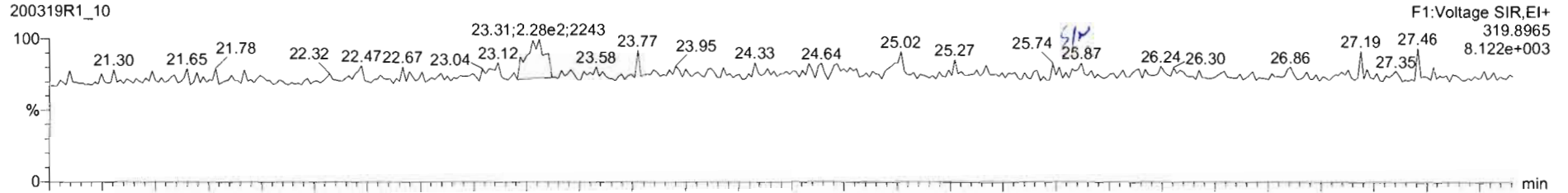
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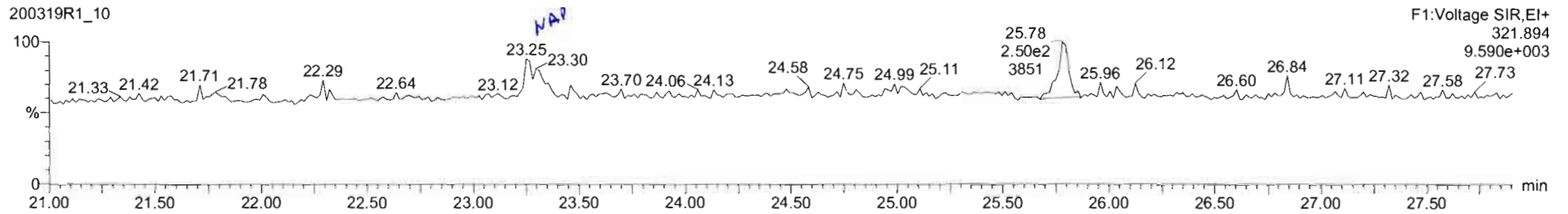
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2,3,7,8-TCDD

200319R1_10

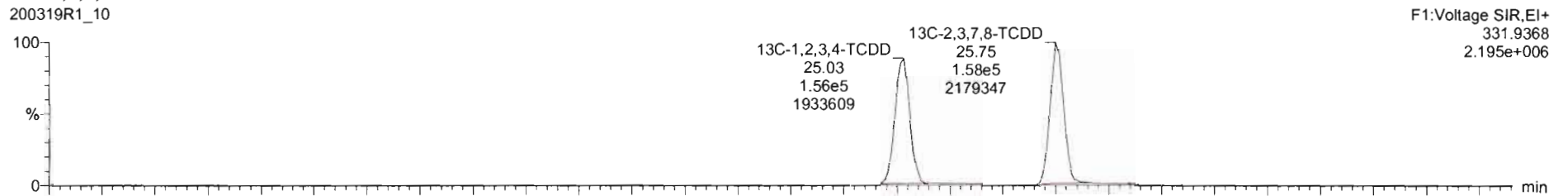


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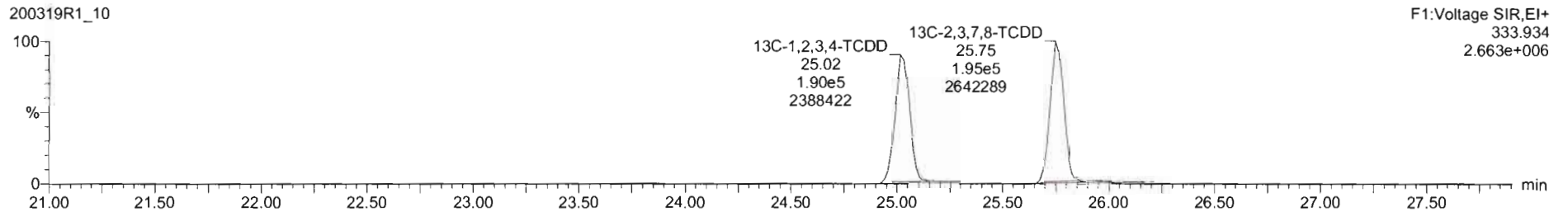


13C-2,3,7,8-TCDD

200319R1_10



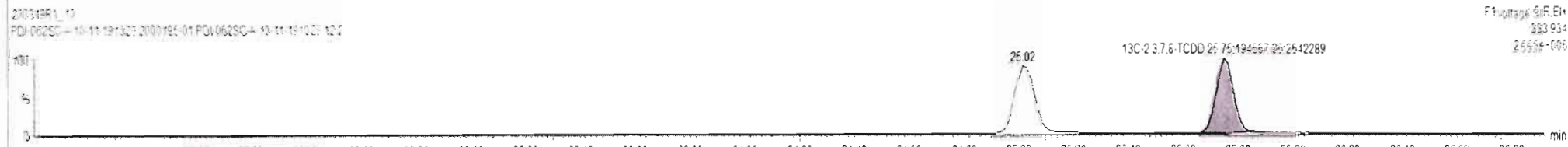
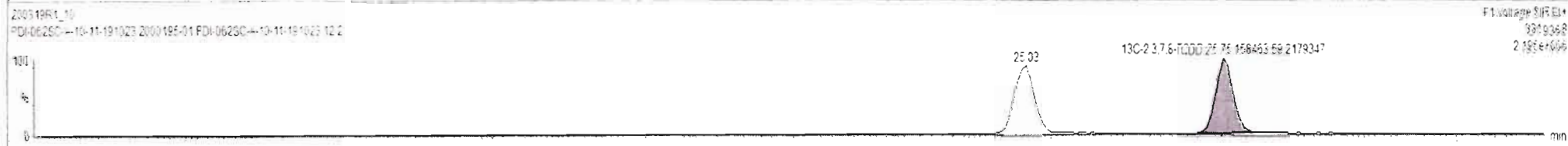
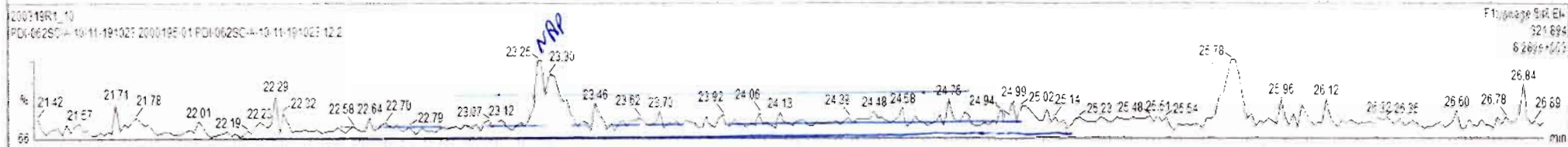
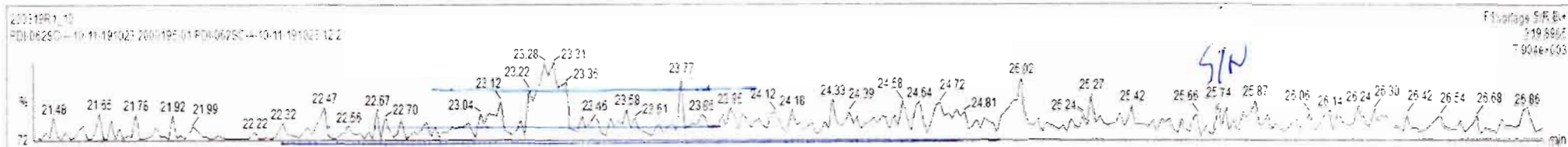
200319R1_10



200319R1_10 - 2000195-01 PDI-062SC-A-10-11-191023 12.2 - PDI-062SC-A-10-11-191023

Name	Resp	RA	n/y	RRF	wt/wal	RT	RRT	Conc	%Rec	BL	EMPC
38 13C-1,2,3,4,6,9-HxCDF	3.52e5	0.52	NO	1.0500	10.009	24.02	1.000	200	100	0.545	
39 Total Tetra-Dioxins				0.9835	10.009					0.0742	
40 Total Penta-Dioxins				0.5212	10.005					0.0535	
41 Total Hexa-Dioxins				0.0224	10.000			0.211		0.196	0.211

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



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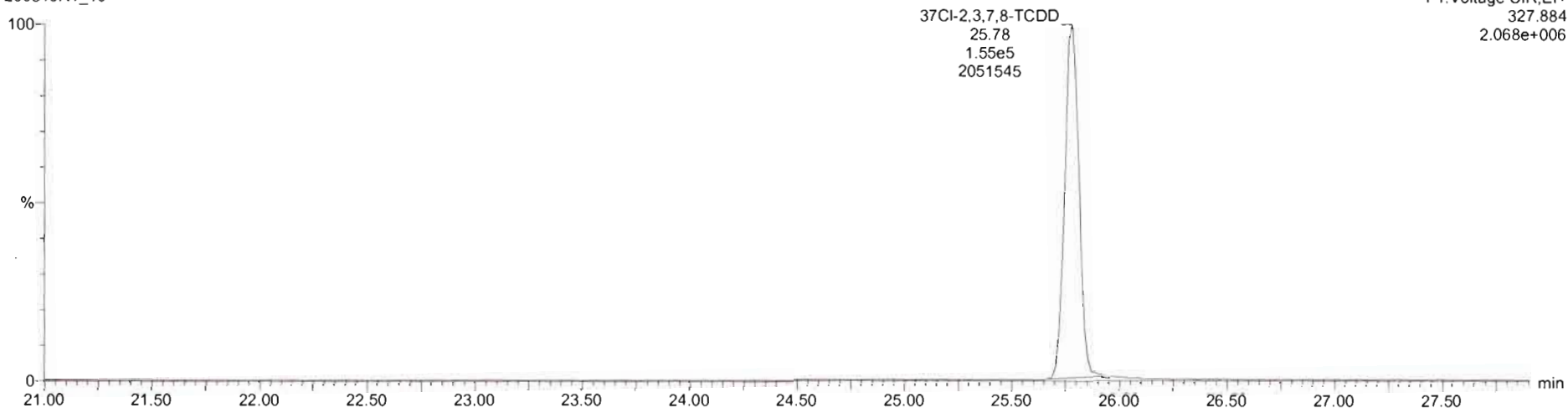
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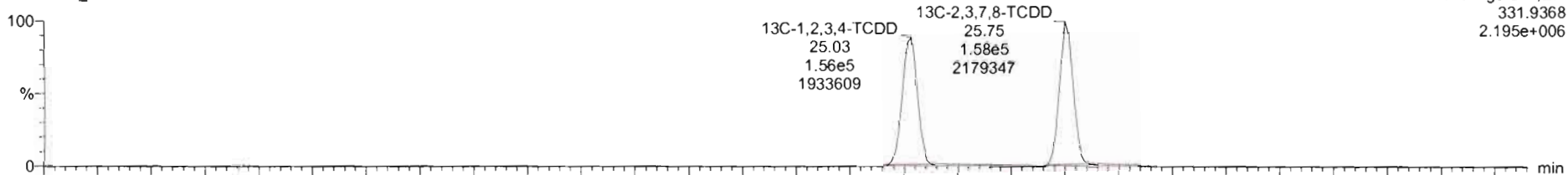
37Cl-2,3,7,8-TCDD

200319R1_10

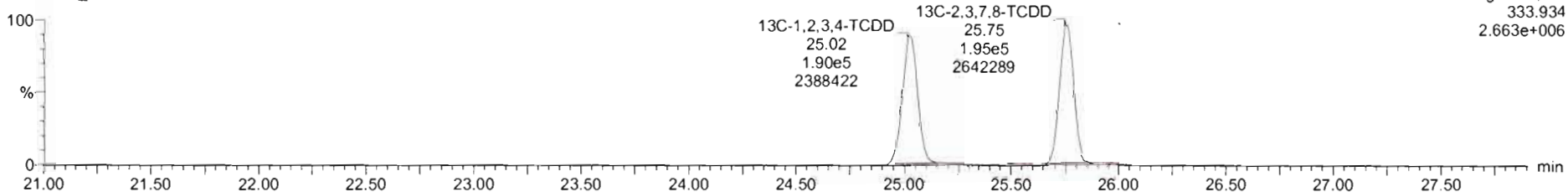


13C-1,2,3,4-TCDD

200319R1_10



200319R1_10



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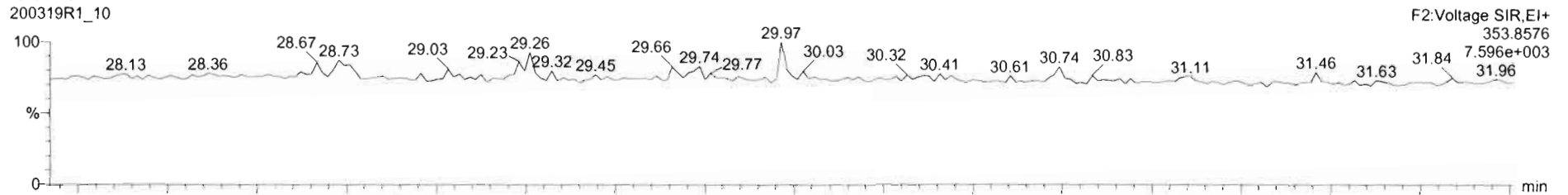
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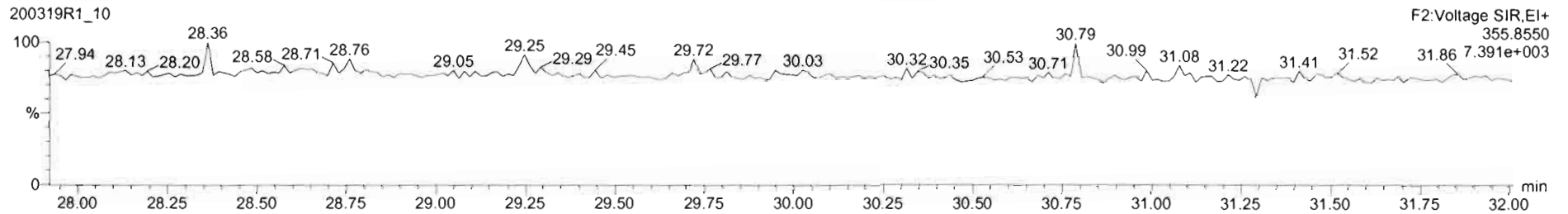
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1,2,3,7,8-PeCDD

200319R1_10

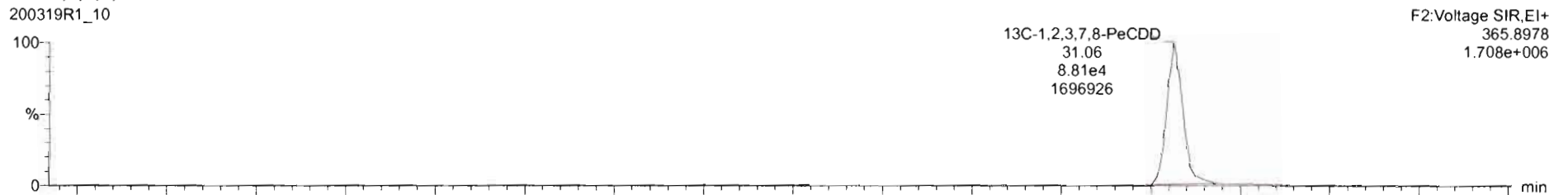


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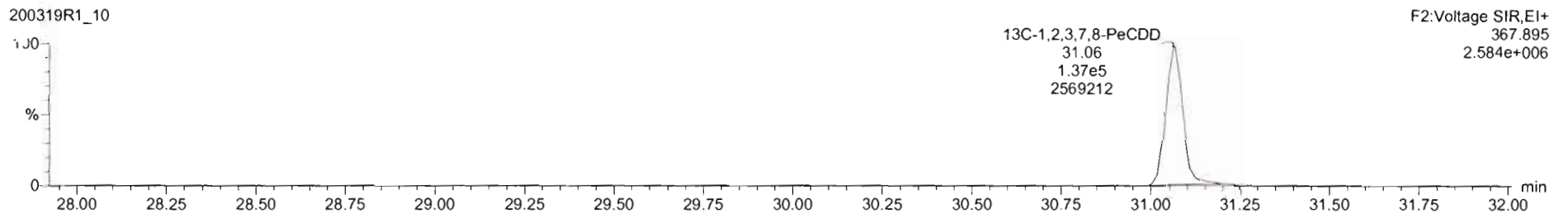


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200319R1_10



200319R1_10



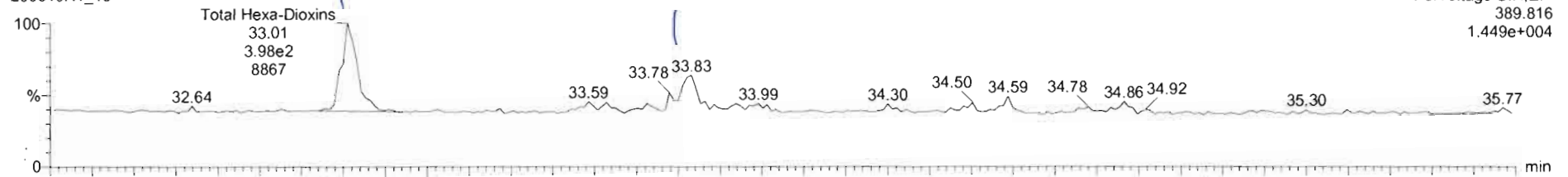
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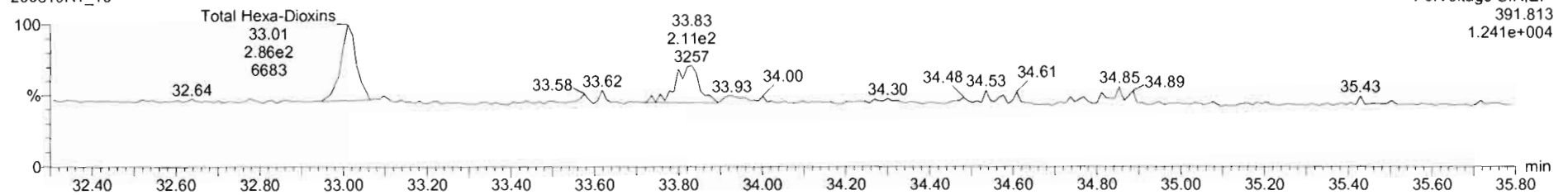
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1,2,3,4,7,8-HxCDD

200319R1_10

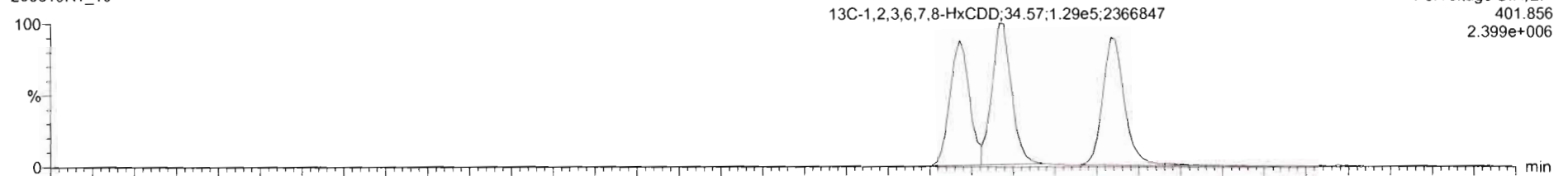


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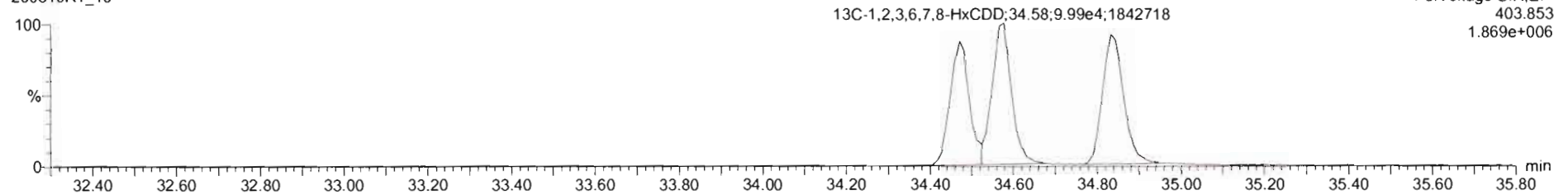


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200319R1_10



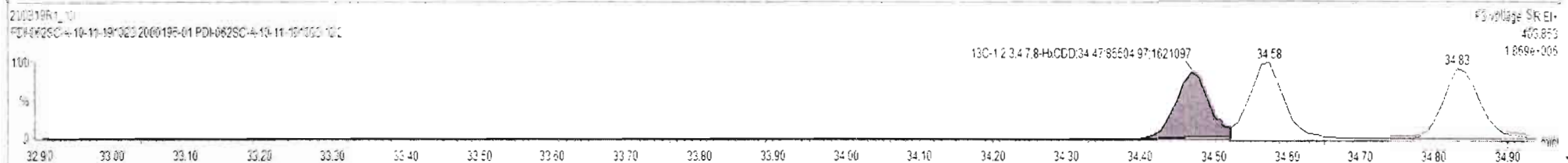
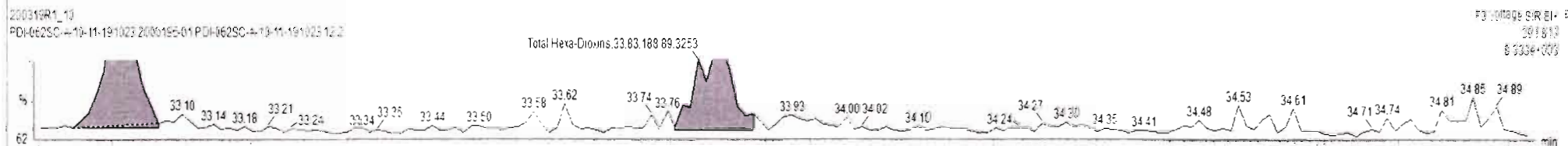
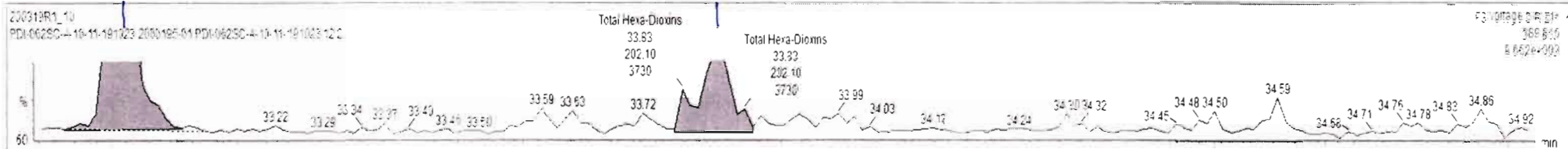
200319R1_10



200319R1_10 - 2000195-01 PDI-062SC-A-10-11-191023 12.2 - PDI-062SC-A-10-11-191023

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
38 13C-1,2,3,4,6,8-HxCDF	1.52e5	0.52	NO	1.0682	10.009	34.00	1.000	290	100	0.545	
39 Total Tetra-Dioxins				0.9335	10.009					0.0742	
40 Total Penta-Dioxins				0.5212	10.009					0.0535	
41 Total Hexa-Dioxins				0.0824	10.009			0.645		0.176	1.01

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.91	2.915e2	2.973e2	1.32	NO	0.64574	0.64574
2 Total Hexa-Dioxins	33.80	2.021e2	1.835e2	1.37	NO	0.26258	0.00300



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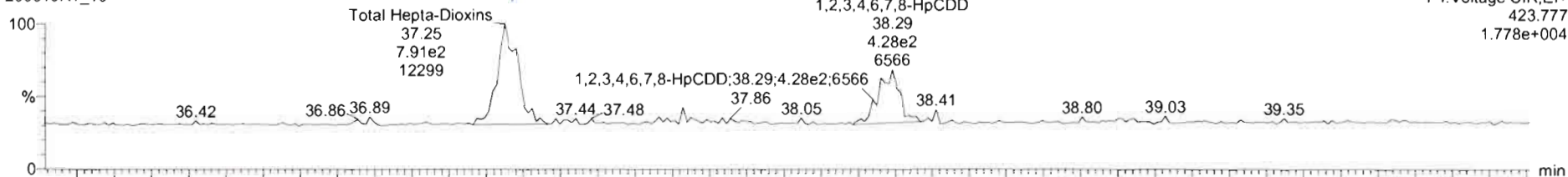
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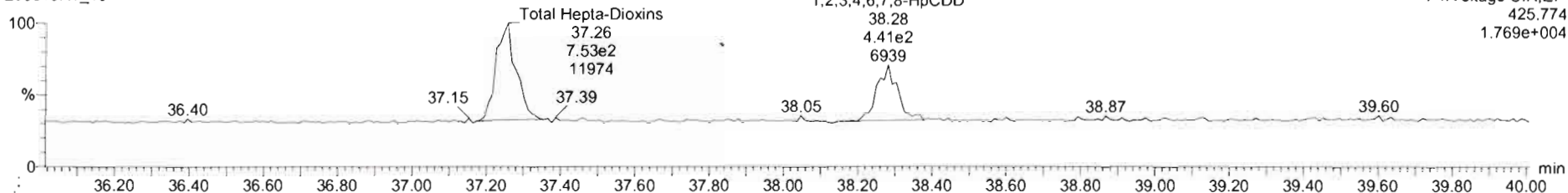
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1,2,3,4,6,7,8-HpCDD

200319R1_10

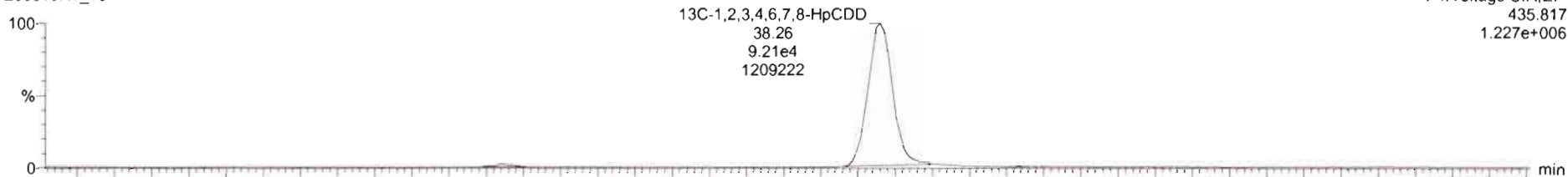


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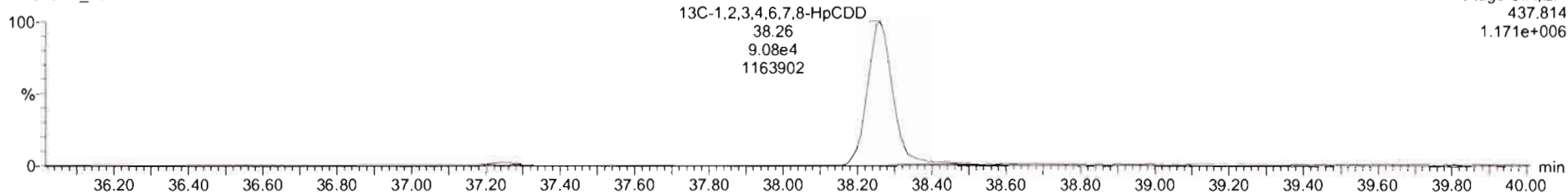


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200319R1_10



200319R1_10

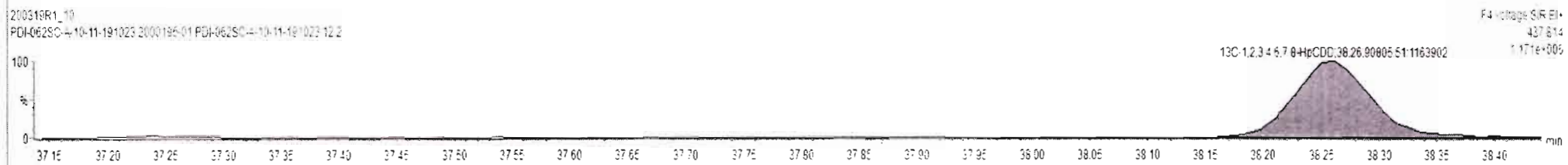
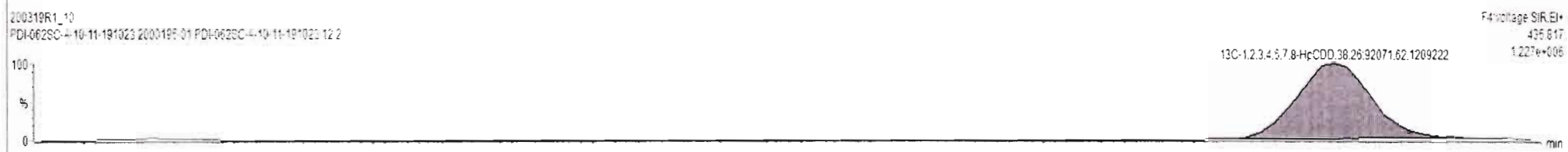
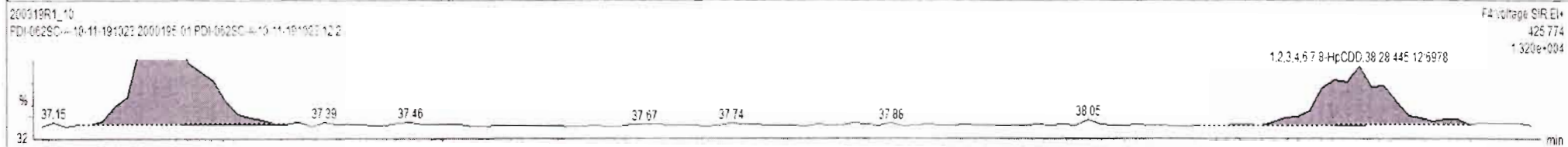
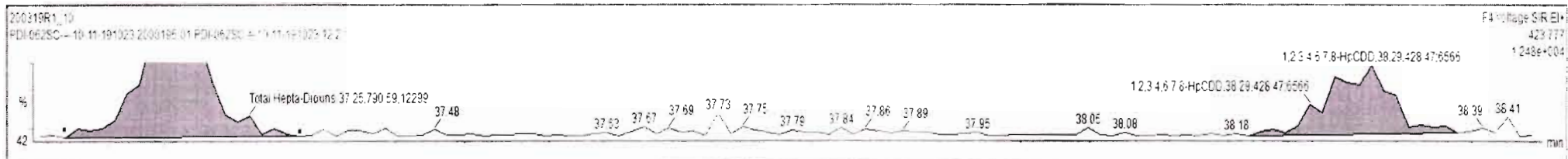




200319R1_10 - 2000195-01 PDI-062SC-A-10-11-191023 12.2 - PDI-062SC-A-10-11-191023

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.0061	10.009			2.64		0.232	2.64
43 Total Tetra-Furans				0.5154	10.009					0.2310	
44 1st Func. Penta-Furans				0.9054	10.009					0.3225	
45 Total Dibenzo-Furans				0.0462	10.009					0.2358	

Name	RT	mt Resp	mc Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.25	7.906e2	7.622e2	1.24	NO	1.6864	1.6864
2 1,2,3,4,6,7,8-HpCDD	38.29	4.265e2	4.451e2	0.96	NO	0.94878	0.94878

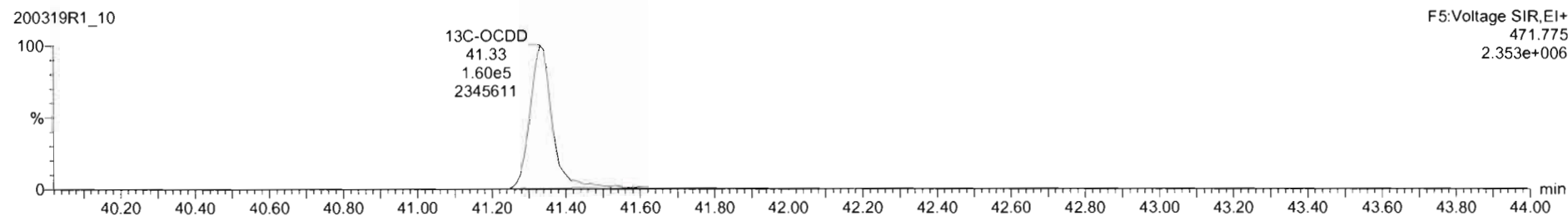
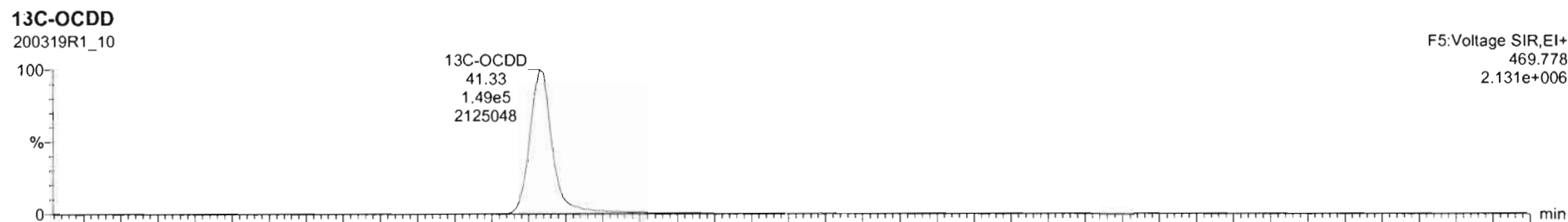
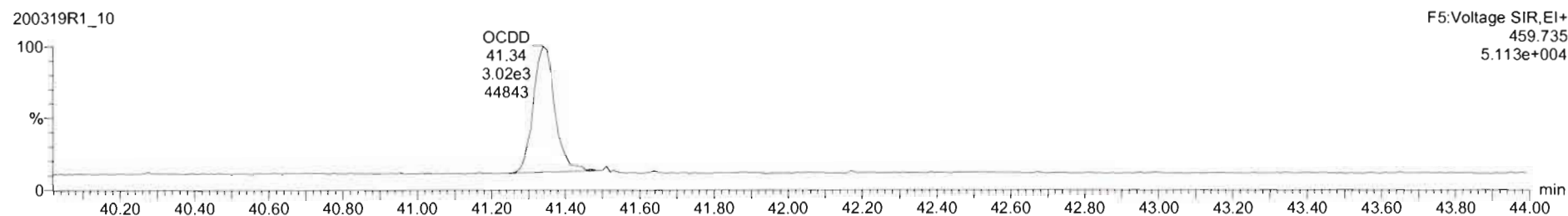
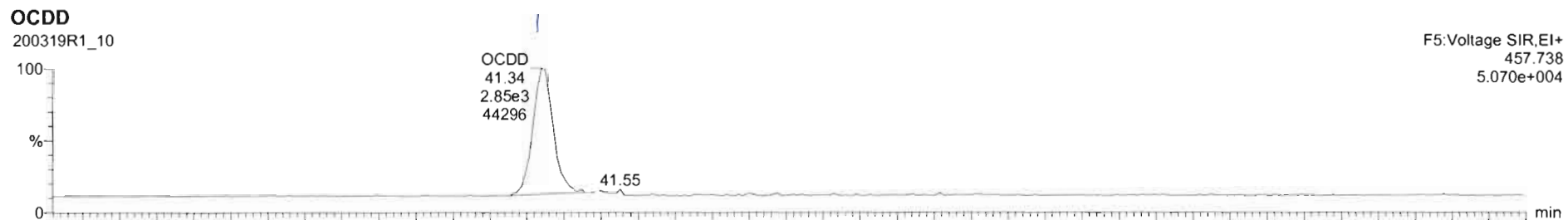


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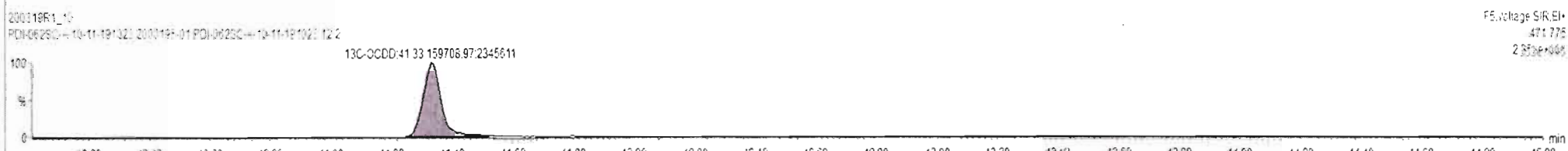
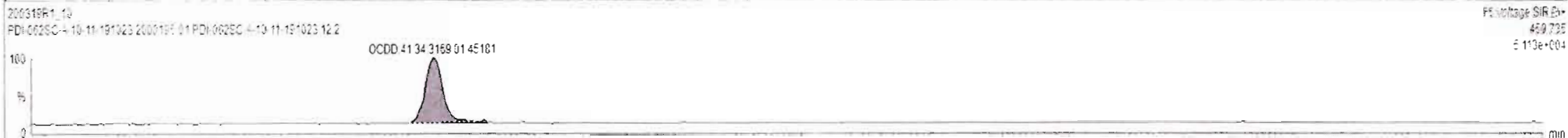
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200319R1_10 - 2000195-01 PDI-062SC-A-10-11-191023 12.2 - PDI-062SC-A-10-11-191023

Name	Resp	RA	n/y	RFI	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	8.21e3	0.96	NO	1.0515	10.009	41.34	1.000	7.67		0.156	7.67
8 2,3,7,8-TCDF			NO	0.5154	10.009					0.0670	
9 1,2,3,7,8-PeCDF			NO	0.9594	10.009					0.0745	
10 1,2,3,4,6,8-PeCDF			NO	1.0034	10.009					0.0681	

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

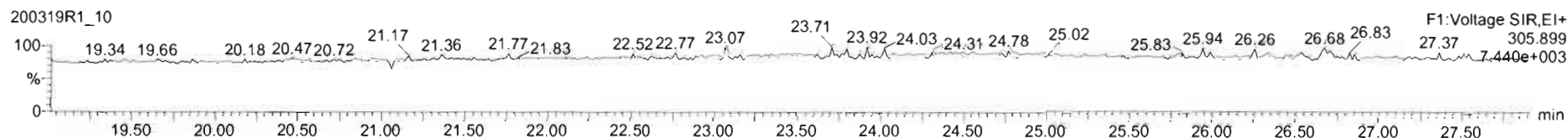
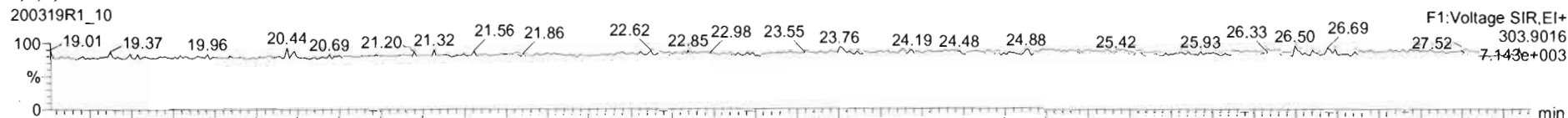


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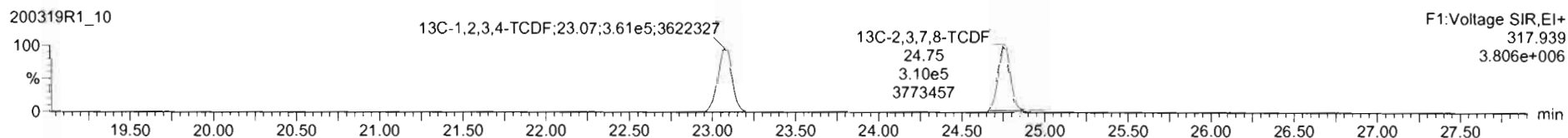
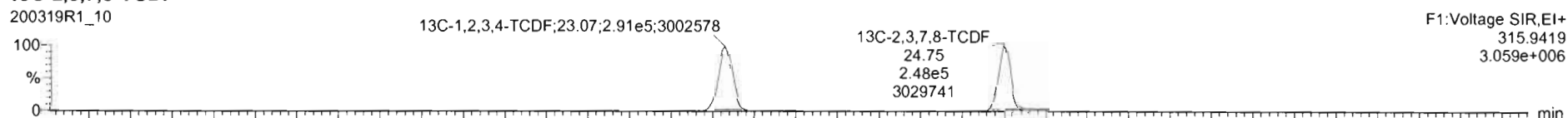
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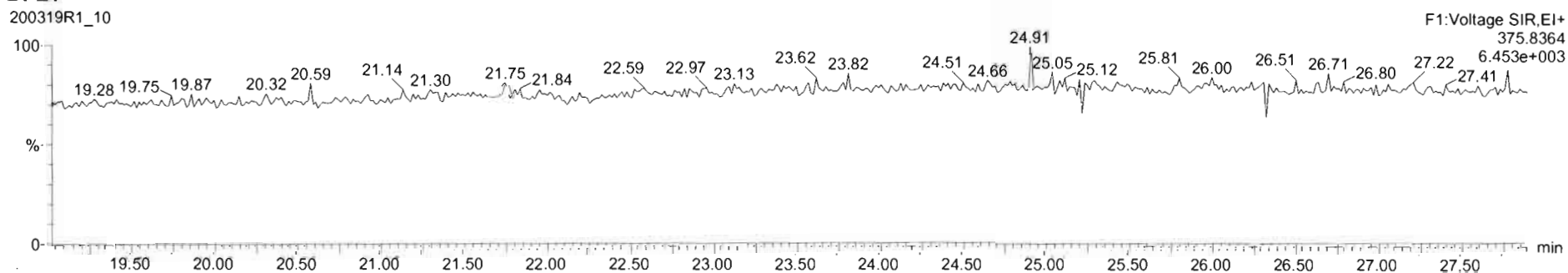
2,3,7,8-TCDF



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



DPE1



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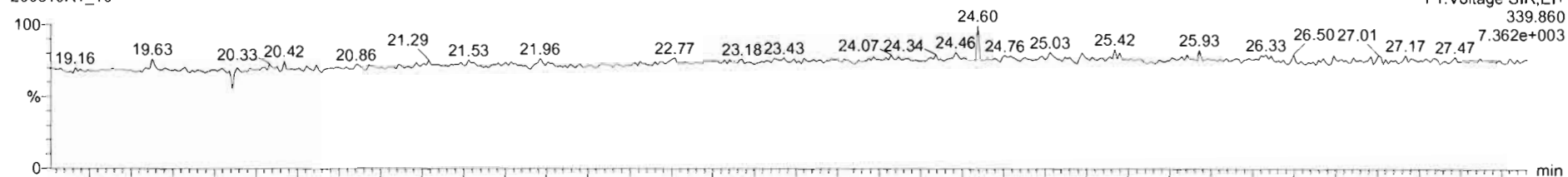
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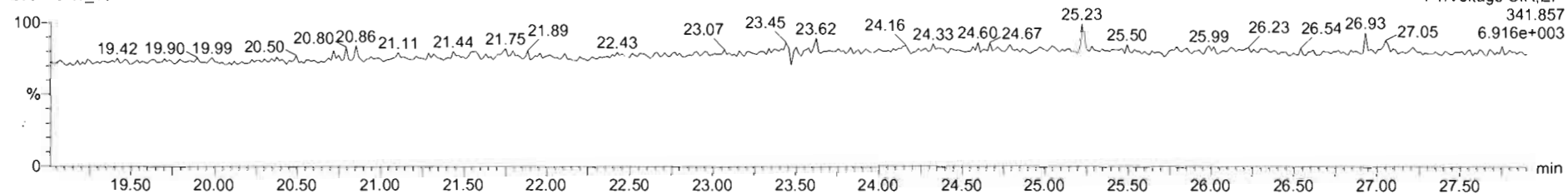
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1st Func. Penta-Furans

200319R1_10

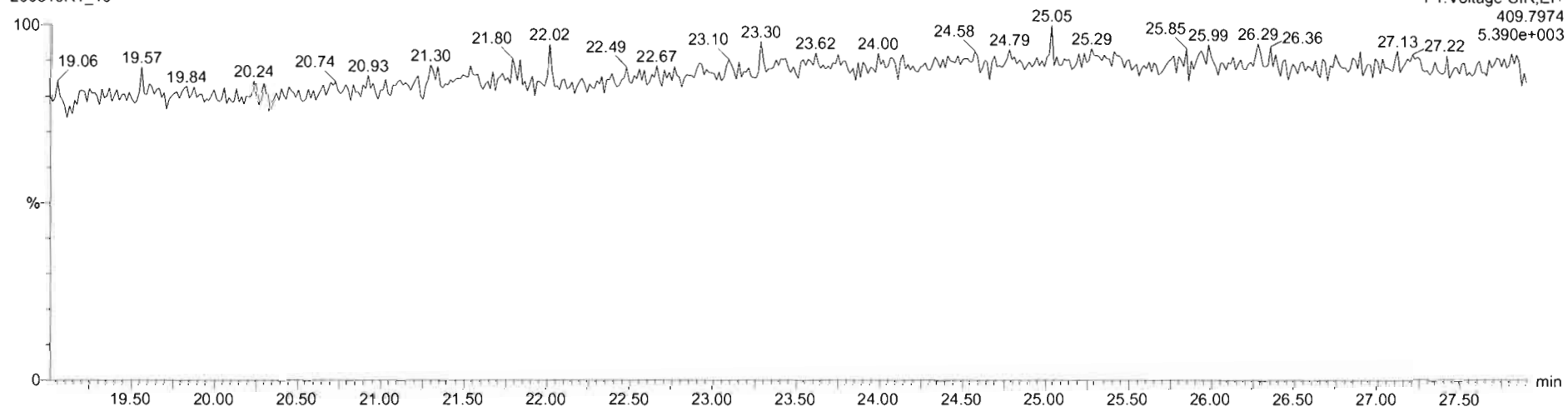


200319R1_10



DPE6

200319R1_10



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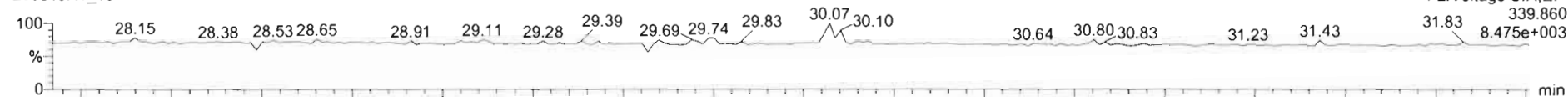
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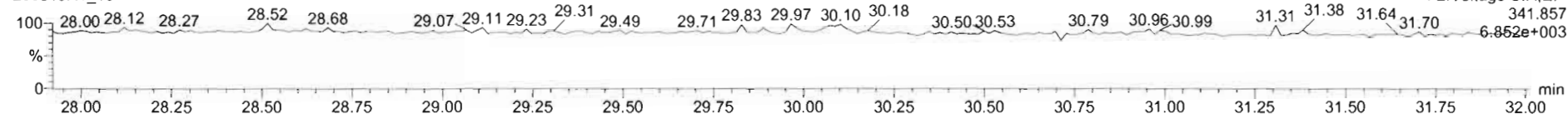
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1,2,3,7,8-PeCDF

200319R1_10



200319R1_10

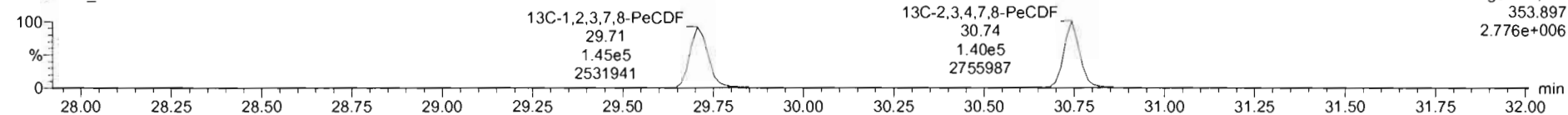


13C-1,2,3,7,8-PeCDF

200319R1_10

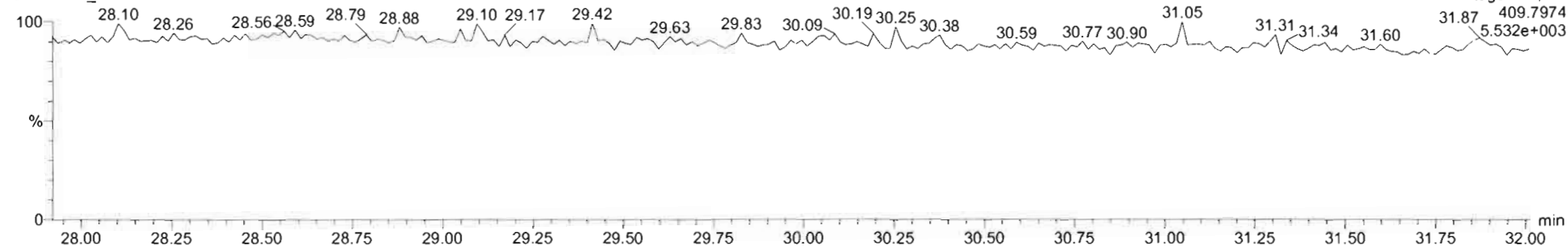


200319R1_10



DPE2

200319R1_10

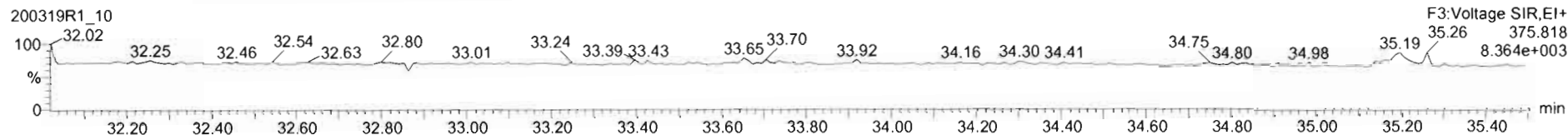
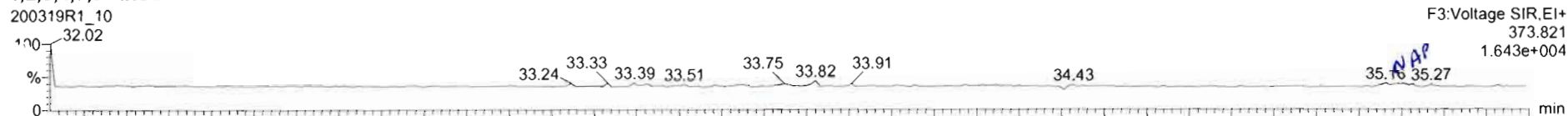


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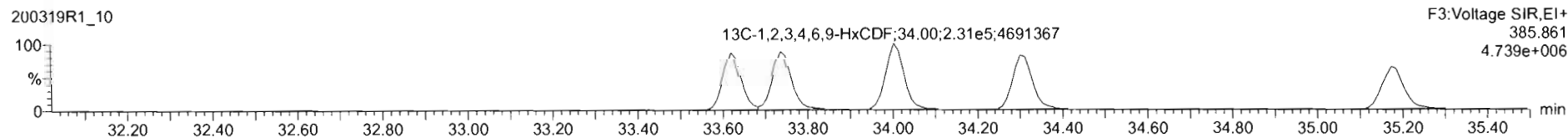
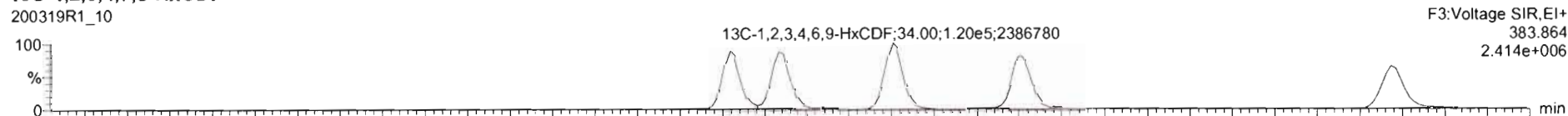
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_10, Date: 19-Mar-2020, Time: 23:28:38, ID: 2000195-01 PDI-062SC-A-10-11-191023 12.2, Description: PDI-062SC-A-10-11-191023

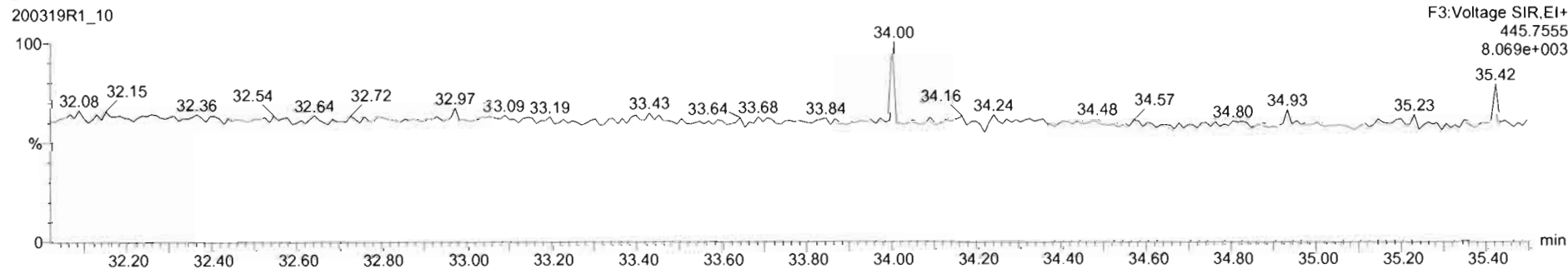
1,2,3,4,7,8-HxCDF



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

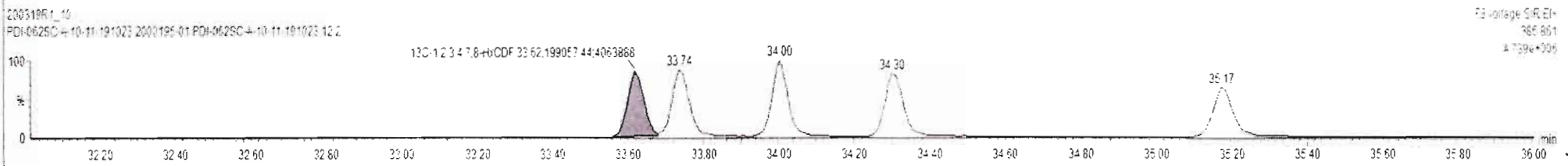
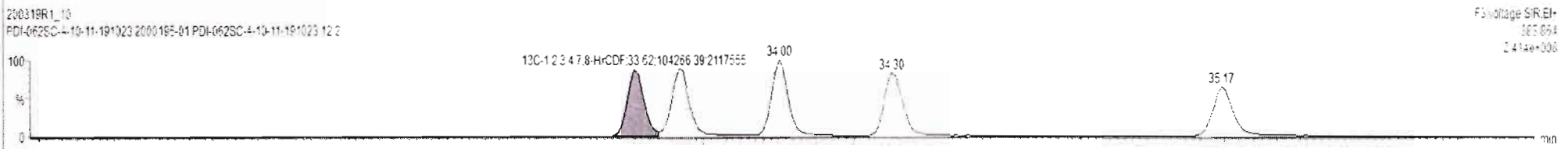
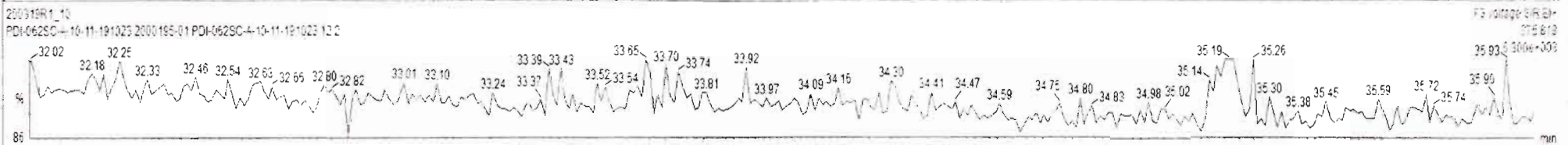
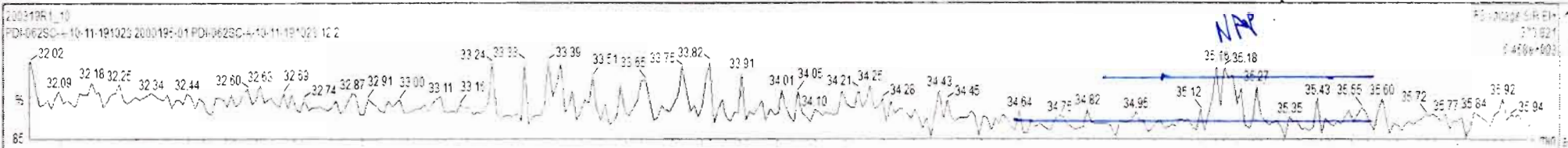


DPE3



Name	Resp	RA	n/y	RRF	wt%vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func Penta-Furans				0.9594	10.009					0.0223	
45 Total Penta-Furans				0.9594	10.009					0.0258	
46 Total Hexa-Furans				1.0920	10.009					0.0334	
47 Total Hepta-Furans				1.1249	10.009					0.1251	

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



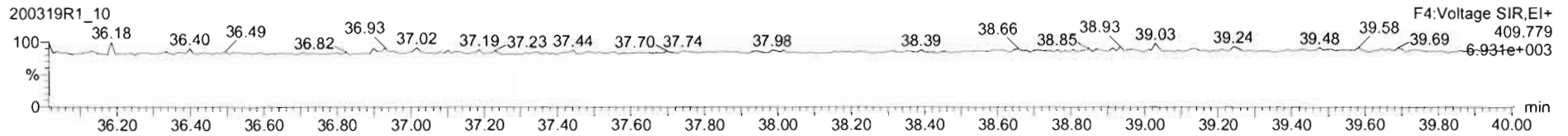
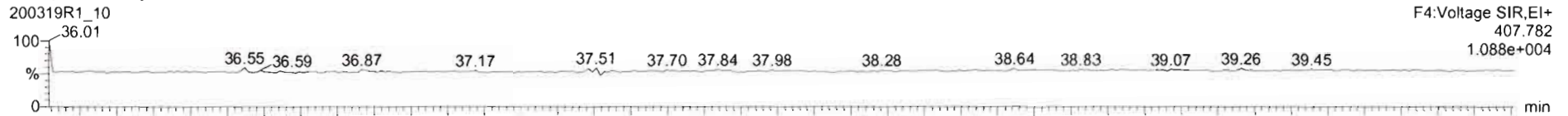
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

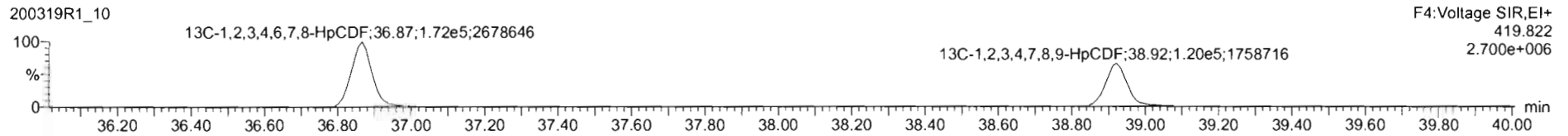
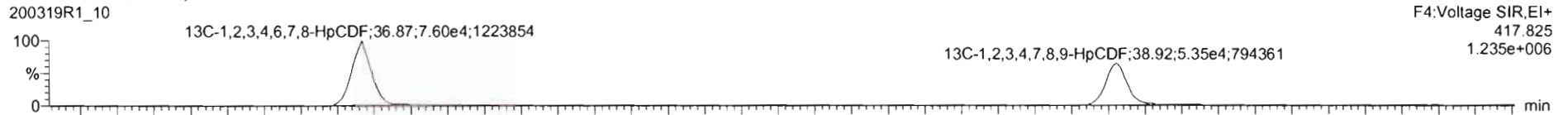
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_10, Date: 19-Mar-2020, Time: 23:28:38, ID: 2000195-01 PDI-062SC-A-10-11-191023 12.2, Description: PDI-062SC-A-10-11-191023

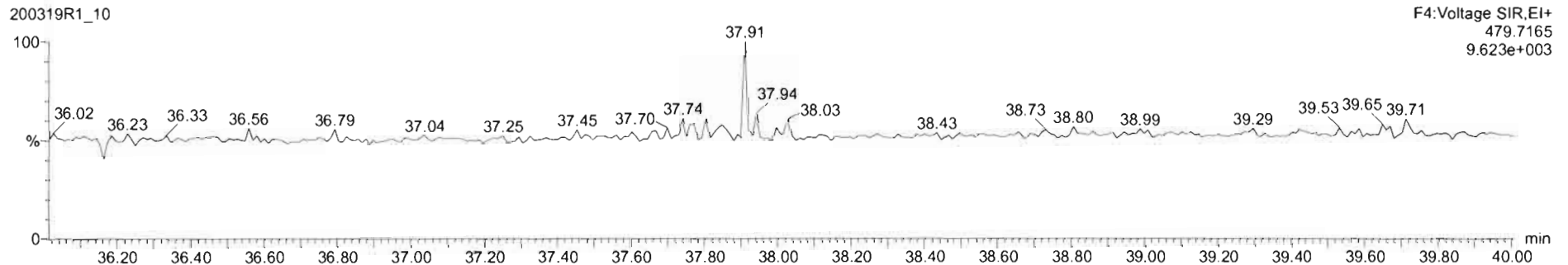
1,2,3,4,6,7,8-HpCDF



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



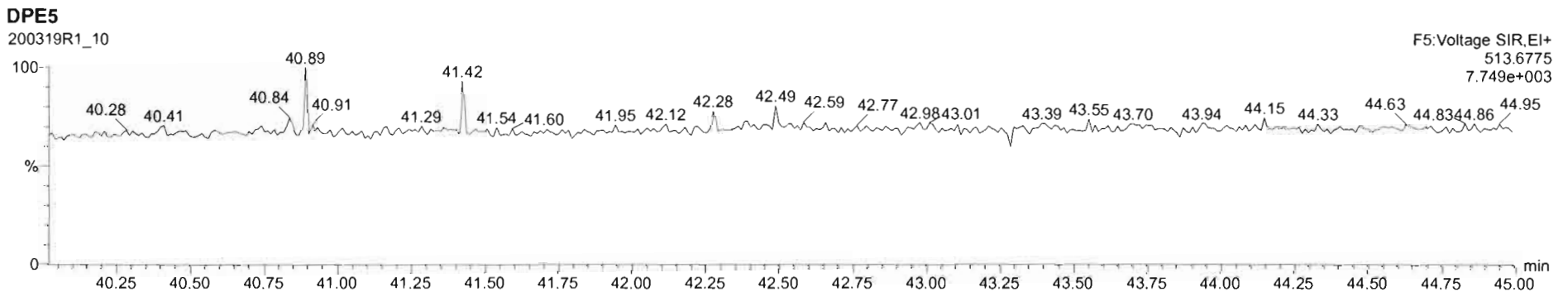
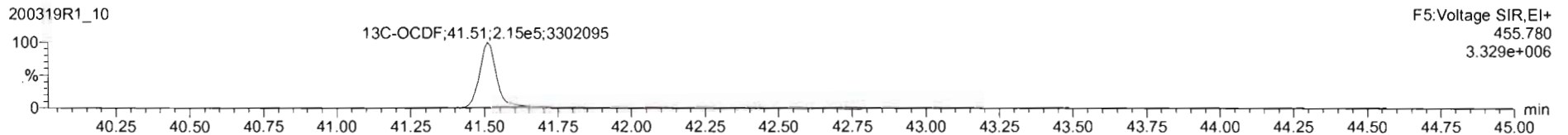
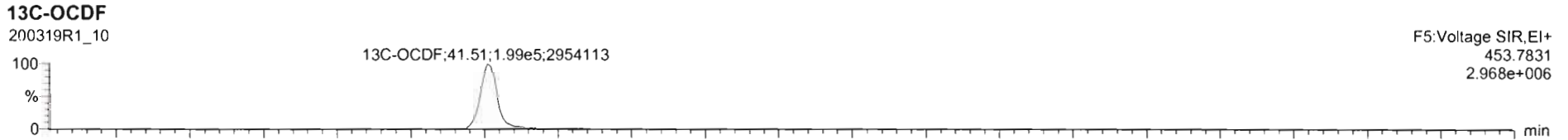
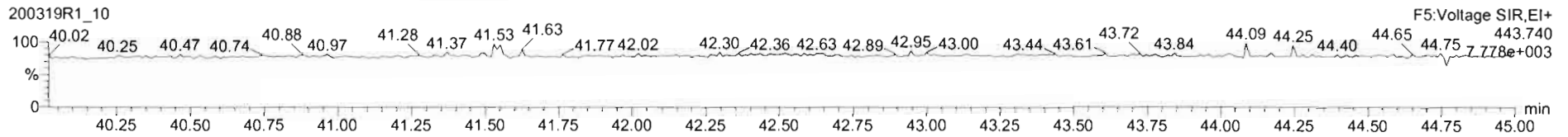
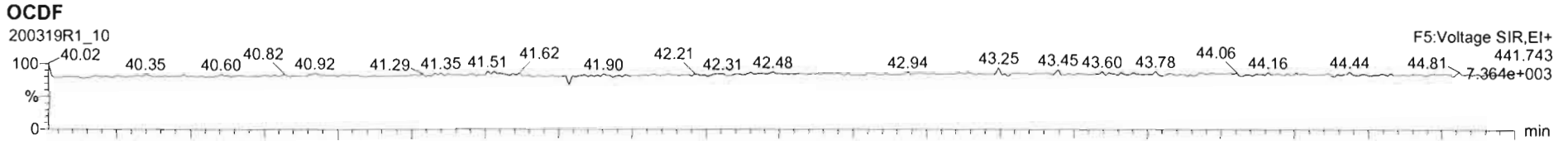
DPE4



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_10, Date: 19-Mar-2020, Time: 23:28:38, ID: 2000195-01 PDI-062SC-A-10-11-191023 12.2, Description: PDI-062SC-A-10-11-191023

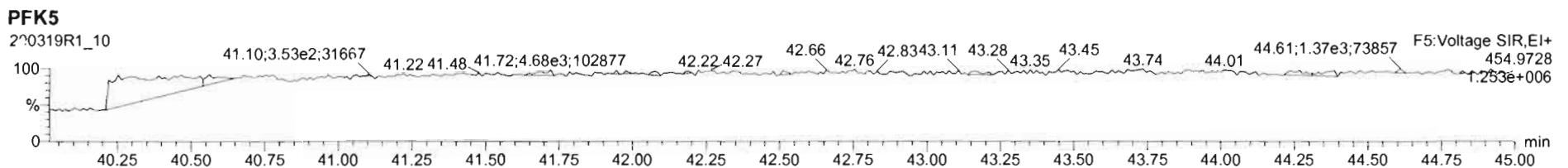
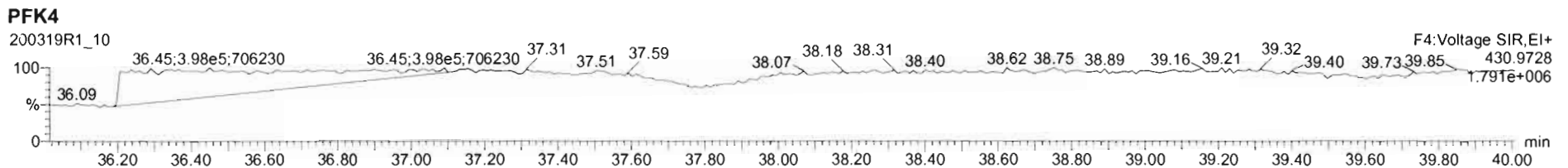
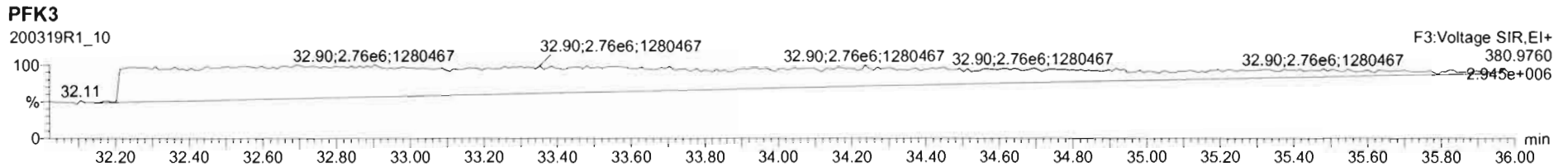
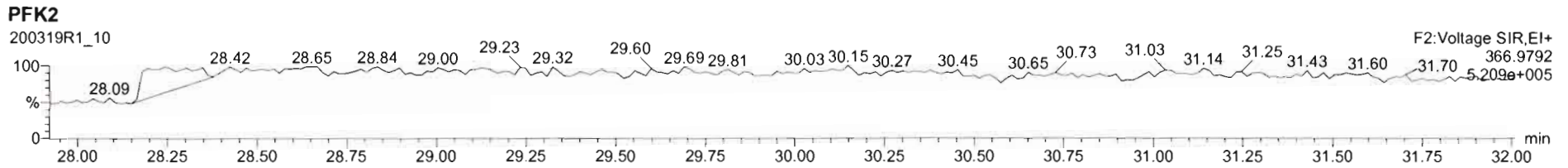
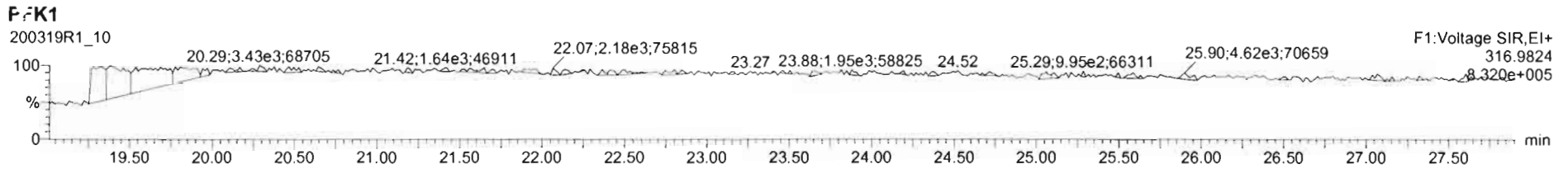


Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_10, Date: 19-Mar-2020, Time: 23:28:38, ID: 2000195-01 PDI-062SC-A-10-11-191023 12.2, Description: PDI-062SC-A-10-11-191023



Dataset: U:\VG12.PRO\Results\200319R1\200319R1-9B.qld

Last Altered: Wednesday, April 01, 2020 14:39:22 Pacific Daylight Time
Printed: Wednesday, April 01, 2020 14:39:41 Pacific Daylight Time

BL 04/01/2020 for IT

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

C1 04/01/2020

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.983	12.190	25.781		1.001				0.454	
2	2 1,2,3,7,8-PeCDD			NO	0.921	12.190	31.085		1.001				0.506	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	12.190	34.480		1.000				0.420	
4	4 1,2,3,6,7,8-HxCDD			NO	0.984	12.190	34.566		1.000				0.427	
5	5 1,2,3,7,8,9-HxCDD			NO	0.967	12.190	34.842		1.000				0.490	
6	6 1,2,3,4,6,7,8-HpCDD	1.07e3	1.23	YES	1.01	12.190	38.272	38.27	1.000	1.000	4.1424		0.676	3.79
7	7 OCDD	7.28e3	0.87	NO	1.05	12.190	41.329	41.34	1.000	1.000	34.100		0.866	34.1
8	8 2,3,7,8-TCDF			NO	0.915	12.190	24.772		1.001				0.206	
9	9 1,2,3,7,8-PeCDF			NO	0.959	12.190	29.726		1.001				0.275	
10	10 2,3,4,7,8-PeCDF			NO	1.00	12.190	30.774		1.001				0.242	
11	11 1,2,3,4,7,8-HxCDF			NO	1.04	12.190	33.618		1.000				0.179	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	12.190	33.745		1.000				0.182	
13	13 2,3,4,6,7,8-HxCDF			NO	1.09	12.190	34.333		1.001				0.181	
14	14 1,2,3,7,8,9-HxCDF			NO	1.03	12.190	35.173		1.000				0.224	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	12.190	36.903		1.001				0.273	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.21	12.190	38.911		1.000				0.377	
17	17 OCDF			NO	0.947	12.190	41.510		1.000				0.394	
18	18 13C-2,3,7,8-TCDD	1.03e5	0.83	NO	1.18	12.190	25.735	25.75	1.029	1.029	49.134	24.6	0.307	
19	19 13C-1,2,3,7,8-PeCDD	6.73e4	0.63	NO	0.864	12.190	30.919	31.06	1.236	1.242	43.836	21.9	0.231	
20	20 13C-1,2,3,4,7,8-HxCDD	5.66e4	1.31	NO	0.754	12.190	34.474	34.47	1.014	1.014	40.879	20.4	0.284	
21	21 13C-1,2,3,6,7,8-HxCDD	6.76e4	1.32	NO	0.925	12.190	34.582	34.57	1.017	1.017	39.793	19.9	0.232	
22	22 13C-1,2,3,7,8,9-HxCDD	6.28e4	1.25	NO	0.829	12.190	34.844	34.83	1.025	1.024	41.254	20.6	0.258	
23	23 13C-1,2,3,4,6,7,8-HpCDD	5.14e4	1.10	NO	0.598	12.190	38.306	38.26	1.127	1.125	46.794	23.4	0.333	
24	24 13C-OCDD	8.12e4	0.92	NO	0.571	12.190	41.457	41.33	1.219	1.216	77.431	19.4	0.345	
25	25 13C-2,3,7,8-TCDF	1.67e5	0.79	NO	1.09	12.190	24.757	24.75	0.990	0.989	44.161	22.1	0.407	
26	26 13C-1,2,3,7,8-PeCDF	1.11e5	1.69	NO	0.876	12.190	29.590	29.70	1.183	1.187	36.423	18.2	0.660	
27	27 13C-2,3,4,7,8-PeCDF	1.08e5	1.61	NO	0.844	12.190	30.601	30.74	1.223	1.229	36.896	18.4	0.686	
28	28 13C-1,2,3,4,7,8-HxCDF	9.10e4	0.50	NO	1.00	12.190	33.620	33.62	0.989	0.989	49.523	24.8	0.394	
29	29 13C-1,2,3,6,7,8-HxCDF	9.66e4	0.53	NO	1.12	12.190	33.729	33.74	0.992	0.992	47.065	23.5	0.353	
30	30 13C-2,3,4,6,7,8-HxCDF	9.06e4	0.52	NO	1.04	12.190	34.310	34.30	1.009	1.009	47.667	23.8	0.381	
31	31 13C-1,2,3,7,8,9-HxCDF	7.83e4	0.49	NO	0.873	12.190	35.184	35.17	1.035	1.034	48.863	24.4	0.452	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-9B.qld

Last Altered: Wednesday, April 01, 2020 14:39:22 Pacific Daylight Time

Printed: Wednesday, April 01, 2020 14:39:41 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

B. 04/01/2020

#	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	7.03e4	0.45	NO	0.771	12.190	36.901	36.87	1.085	1.084	49.654	24.8	0.353	
33	33 13C-1,2,3,4,7,8,9-HpCDF	4.72e4	0.46	NO	0.519	12.190	38.989	38.91	1.147	1.144	49.449	24.7	0.525	
34	34 13C-OCDF	1.13e5	0.91	NO	0.696	12.190	41.638	41.51	1.225	1.221	88.752	22.2	0.271	
35	35 37Cl-2,3,7,8-TCDD	1.52e5			1.17	12.190	25.745	25.78	1.029	1.030	72.662	90.8	0.0877	
36	36 13C-1,2,3,4-TCDD	3.55e5	0.83	NO	1.00	12.190	25.050	25.02	1.000	1.000	200.00	100	0.363	
37	37 13C-1,2,3,4-TCDF	6.96e5	0.81	NO	1.00	12.190	23.190	23.07	1.000	1.000	200.00	100	0.443	
38	38 13C-1,2,3,4,6,9-HxCDF	3.67e5	0.51	NO	1.00	12.190	33.880	34.00	1.000	1.000	200.00	100	0.394	
39	39 Total Tetra-Dioxins				0.983	12.190	24.620		0.000				0.282	
40	40 Total Penta-Dioxins				0.921	12.190	29.960		0.000		0.00000		0.200	0.432
41	41 Total Hexa-Dioxins				0.984	12.190	33.635		0.000		5.4826		0.463	5.48
42	42 Total Hepta-Dioxins				1.01	12.190	37.640		0.000		8.3172		0.676	12.1
43	43 Total Tetra-Furans				0.915	12.190	23.610		0.000				0.0862	
44	44 1st Func. Penta-Furans				0.959	12.190	27.090		0.000				0.0762	
45	45 Total Penta-Furans				0.959	12.190	29.275		0.000				0.123	
46	46 Total Hexa-Furans				1.09	12.190	33.555		0.000				0.0850	
47	47 Total Hepta-Furans				1.05	12.190	37.835		0.000				0.164	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-9B.qld

Last Altered: Wednesday, April 01, 2020 14:39:22 Pacific Daylight Time

Printed: Wednesday, April 01, 2020 14:39:41 Pacific Daylight Time

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

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	Total Penta-Dioxins	29.25	1.140e3	1.481e3	6.702e1	8.219e1	0.82	YES	0.000e0	0.00000	0.43220	0.200

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	1.474e4	9.686e3	6.118e2	5.294e2	1.16	NO	1.141e3	3.7186	3.7186	0.463
2	Total Hexa-Dioxins	33.80	4.340e3	6.278e3	2.787e2	2.627e2	1.06	NO	5.414e2	1.7640	1.7640	0.463

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.26	1.541e4	1.601e4	1.097e3	1.054e3	1.04	NO	2.151e3	8.3172	8.3172	0.676
2	1,2,3,4,6,7,8-HpCDD	38.27	8.803e3	5.835e3	5.905e2	4.807e2	1.23	YES	1.071e3	0.00000	3.7922	0.676

Tetra-Furans

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

Penta-Furans function 1

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

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-9B.qld

Last Altered: Wednesday, April 01, 2020 14:39:22 Pacific Daylight Time

Printed: Wednesday, April 01, 2020 14:39:41 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

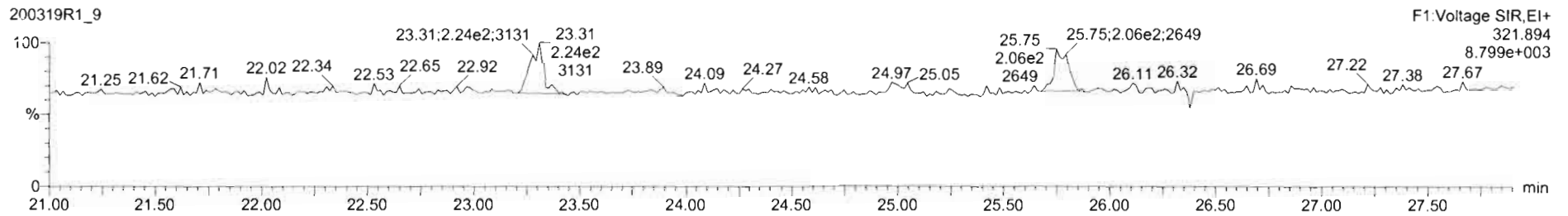
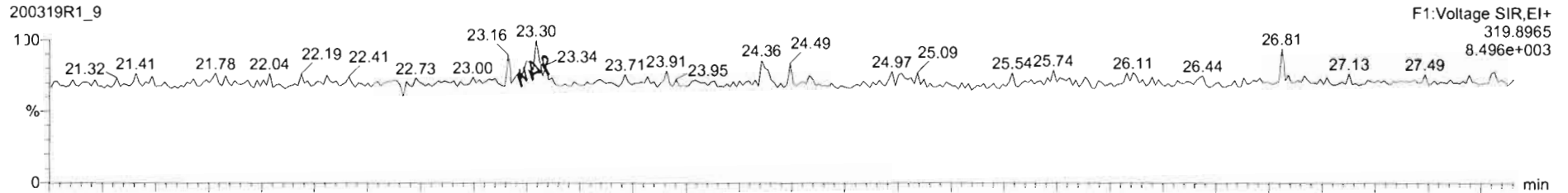
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

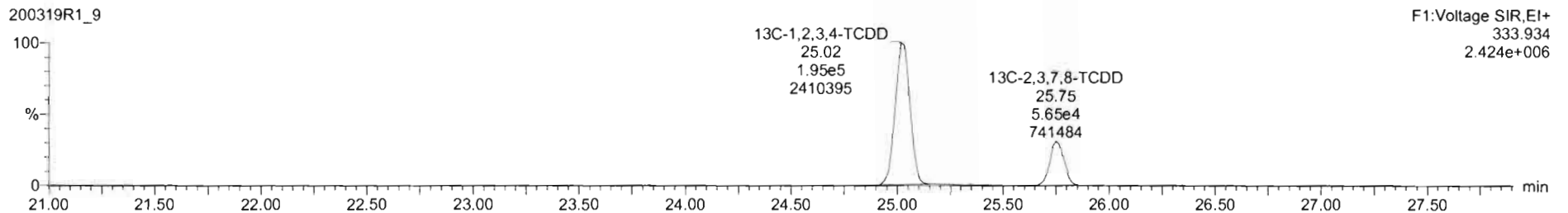
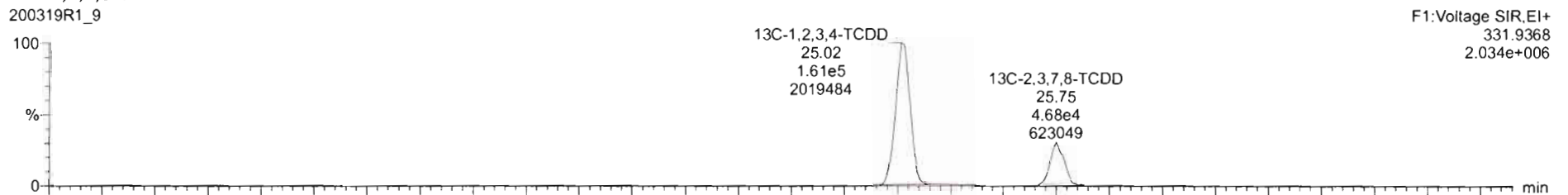
dy 03-25-2020

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

2,3,7,8-TCDD



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



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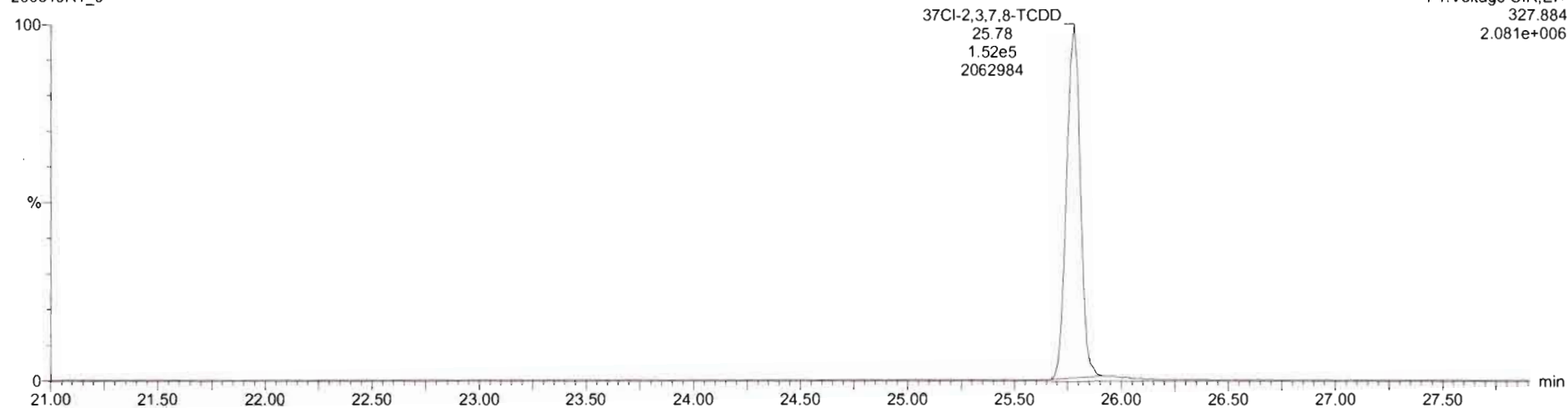
Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

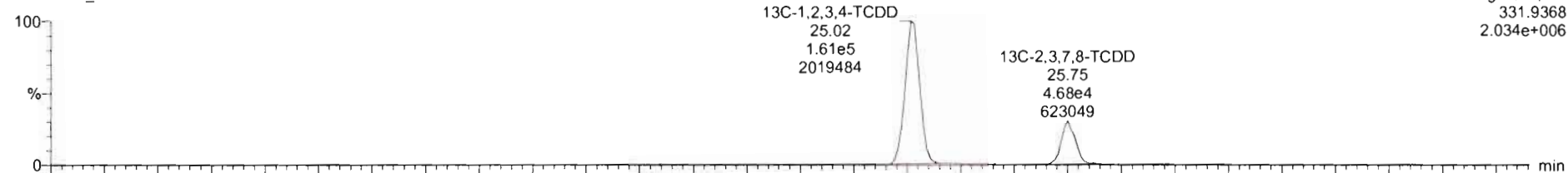
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200319R1_9

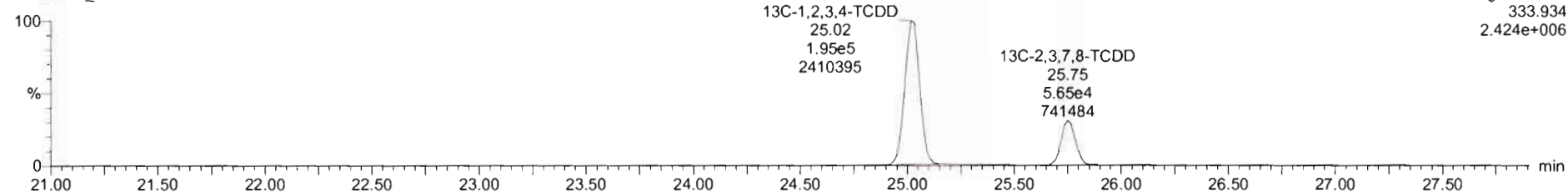


13C-1,2,3,4-TCDD

2 0319R1_9



200319R1_9



Dataset: Untitled

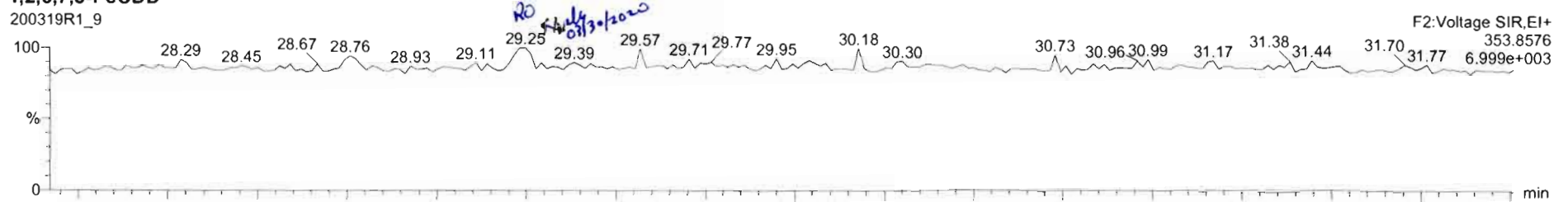
Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

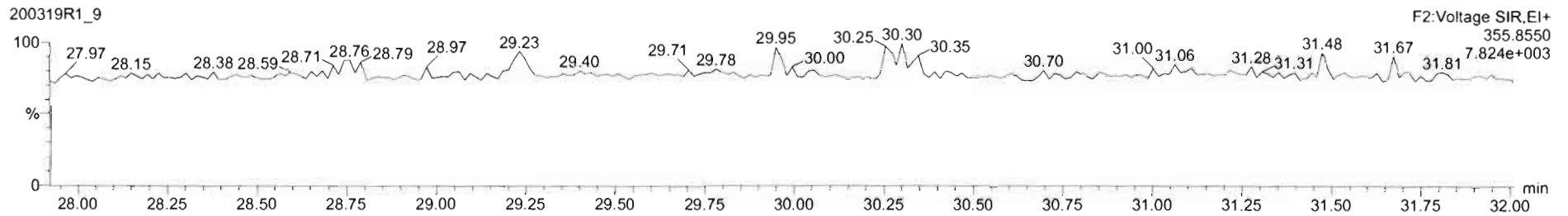
Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

1,2,3,7,8-PeCDD

200319R1_9

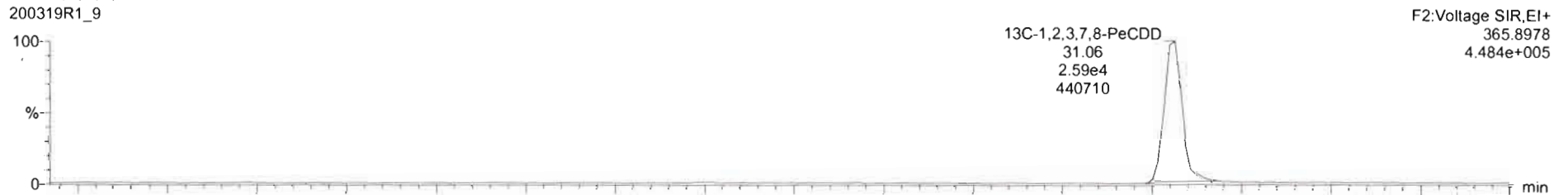


200319R1_9

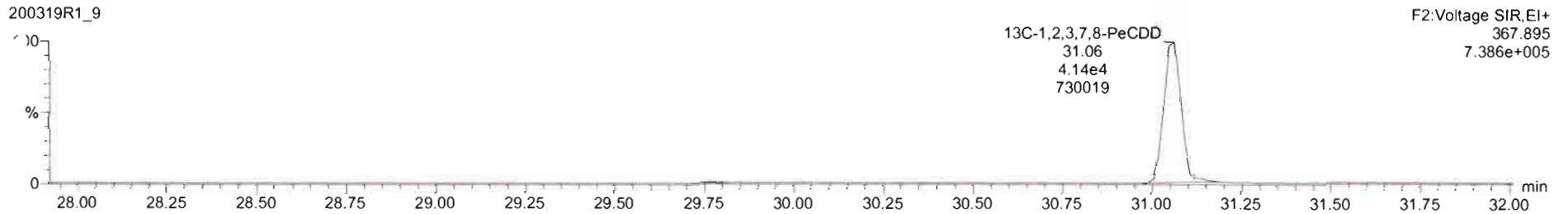


13C-1,2,3,7,8-PeCDD

200319R1_9



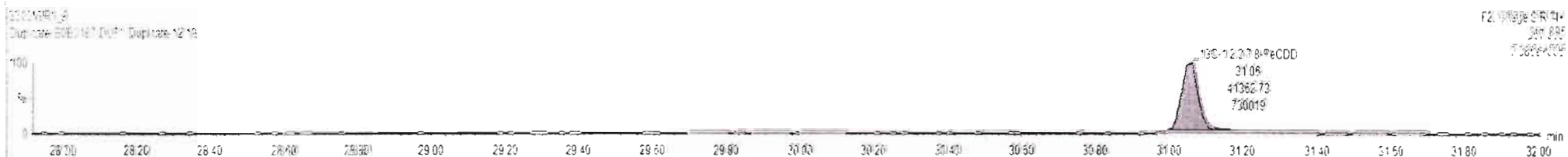
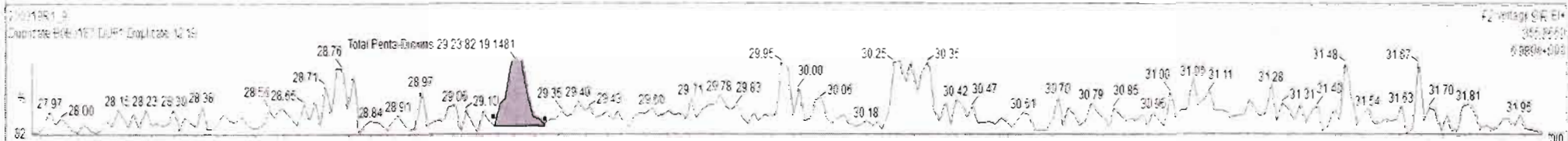
200319R1_9



200319R1_9 - B0B0187-DUP1 Duplicate 12.19 - Duplicate

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9212	12.190			0.000		0.164	0.355
41 Total Hexa-Dioxins				0.9844	12.150			4.50		0.375	4.50

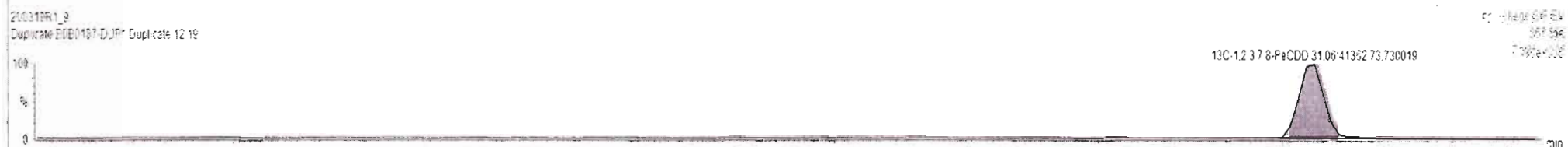
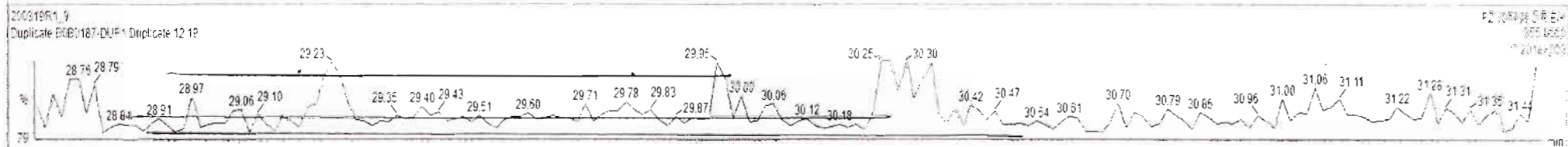
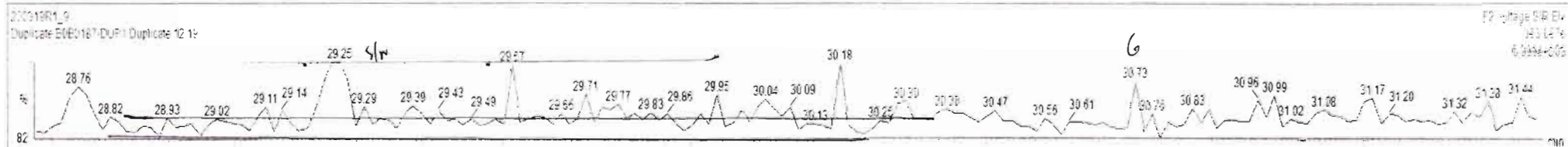
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Dioxins	29.25	6.702e1	6.219e1	0.92	YES	0.26455	0.00000



200319R1_9 - B0B0187-DUP1 Duplicate 12.19 - Duplicate

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RRF	RT	#	IS#	RA	YRI	RRT	Acq Date	Acq Time	1 st Chr.Noise	ID	Sample Text	Factor1	SWt	Cal File
39 Total Tetra-Dioxins		0.232			0.983		29						19-Mar-20	22:46:53		B0B0187-D	Duplicate	0.0	12.2	det_1
40 Total Penta-Dioxins		0.164			0.921		40						19-Mar-20	22:46:53		B0B0187-D...	Duplicate	0.0	12.2	det_1..
41 Total Hexa-Dioxins	4.45765	0.279		4.45765	0.984		41						19-Mar-20	22:46:53		B0B0187-D	Duplicate	0.0	12.2	det_1
47 Total hepta-Dioxins	5.84244	0.559		5.84244	1.000		47						19-Mar-20	22:46:53		B0B0187-D	Duplicate	0.0	12.2	det_1

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

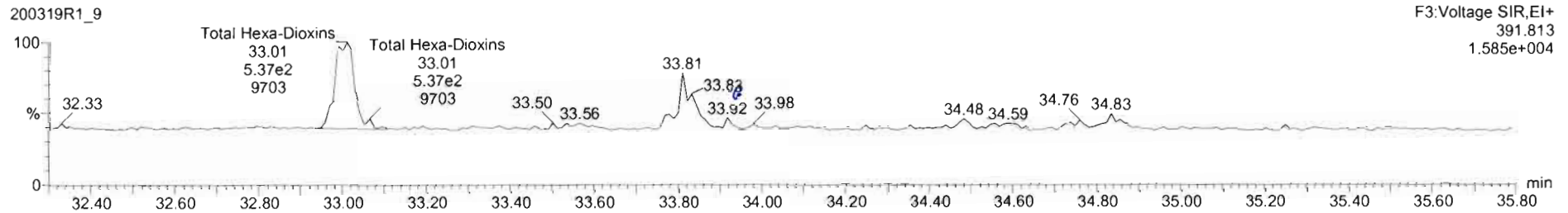
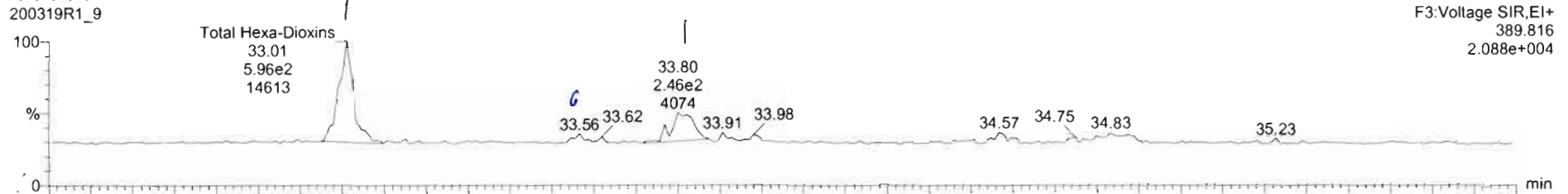


Dataset: Untitled

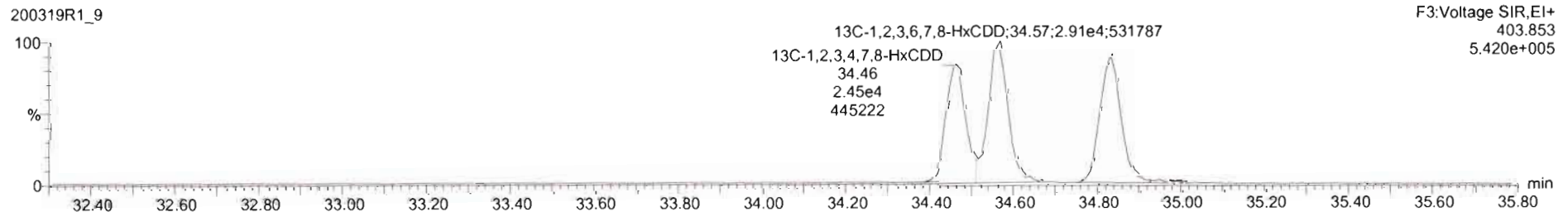
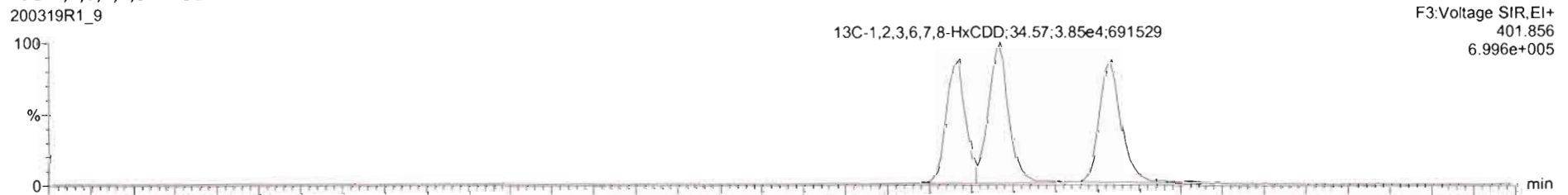
Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

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



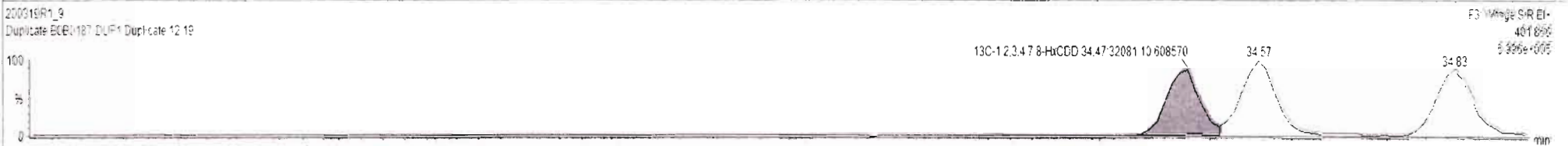
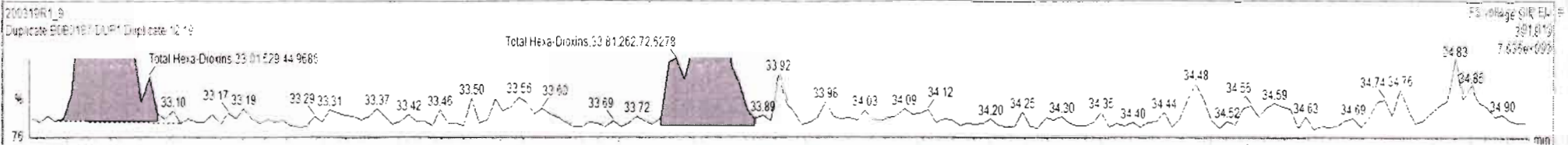
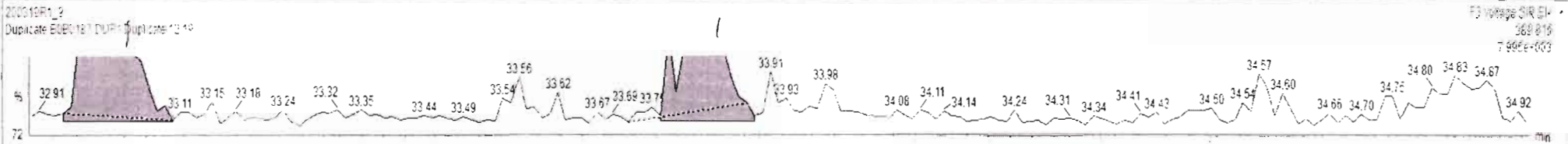
13C-1,2,3,4,7,8-HxCDD



200319R1_9 - B0B0187-DUP1 Duplicate 12.19 - Duplicate

Name	Conc.	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	Y/N	RRT	Acq Date	Acq Time	1 st Chr.Norse	ID	Sample Text	Factor1	SWI	CalFile
39 Total Tetra-Dioxins		0.232				0.693	39						19-Mar-20	22:40:53		B0B0187-D...	Duplicate	0.0	12.2	db5_1
40 Total Penta-Dioxins		0.154				0.921	40						19-Mar-20	22:40:53		B0B0187-D...	Duplicate	0.0	12.2	db5_1
41 Total Hexa-Dioxins	4.49765	0.379		4.49765		0.984	41						19-Mar-20	22:40:53		B0B0187-D...	Duplicate	0.0	12.2	db5_1...
42 Total Hepta-Dioxins	8.26511	0.657		8.26511		1.052	42						19-Mar-20	22:40:53		B0B0187-D...	Duplicate	0.0	12.2	db5_1...

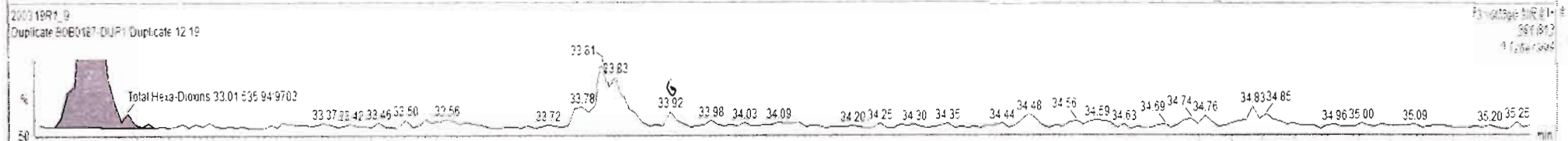
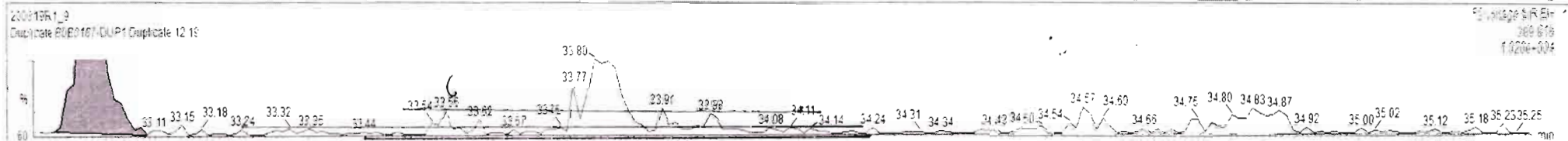
Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC
1 Total Hexa-Dioxins	33.80	4.240e3	8.278e3	2.737e2	2.627e2	1.06	N/D	5.414e2	1.45	1.45
2 Total Hexa-Dioxins	33.81	1.474e4	9.956e2	6.116e2	5.294e2	1.16	N/D	1.141e3	3.05	3.05



200319R1_9 - B0B0187-DUP1 Duplicate 12.19 - Duplicate

ID	Name	Conc	DL	%Rec	EMPC	Als.Resp	RF	RT	#	IS#	RA	Y/N	RRT	Acq.Date	Acq.Time	1° Chr.Horse	ID	Sample Text	Factor1	SWt	Cal.File
39	Total Tetra-Dioxns		0.232				0.983	25						19-Mar-20	22:40:53		B0B0187-D	Duplicate	0.0	12.2	db5_1
40	Total Penta-Dioxns		0.164				0.921	40						19-Mar-20	22:40:53		B0B0187-D	Duplicate	0.0	12.2	db5_1
41	Total Hexa-Dioxns	3.02723	0.379		3.02700		0.994	41						19-Mar-20	22:40:53		B0B0187-D	Duplicate	0.0	12.2	db5_1
47	Total Hepta-Dioxns	0.82744	0.629		0.82500		1.008	27						19-Mar-20	22:40:53		B0B0187-D	Duplicate	0.0	12.2	db5_1

ID	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc	EMPC
1	Total Hexa-Dioxns	33.01	1.461e4	9.732e3	5.956e2	5.369e2	1.11	NO	1.132e2	3.03	3.03



Dataset: Untitled

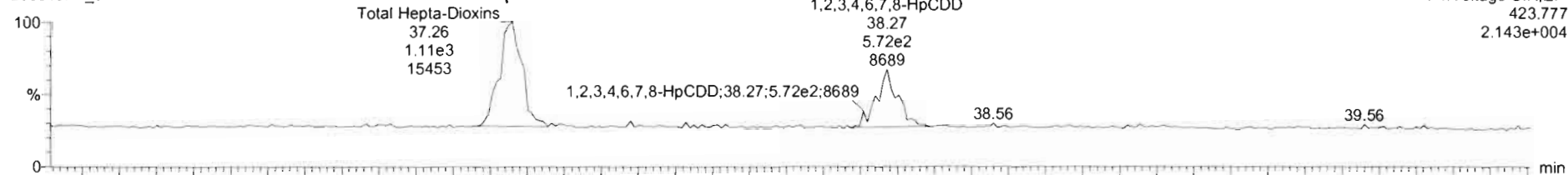
Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

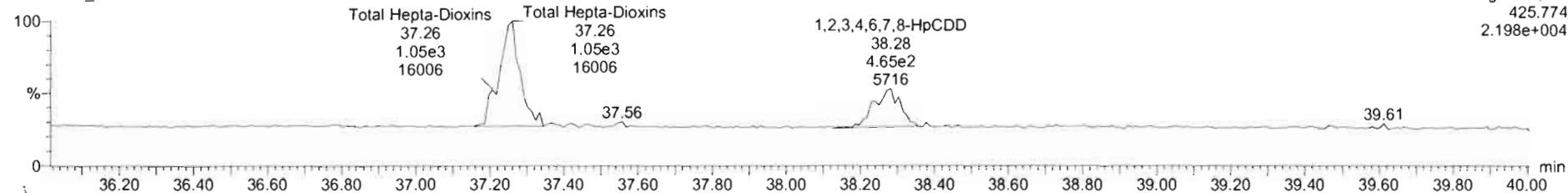
Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

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

200319R1_9

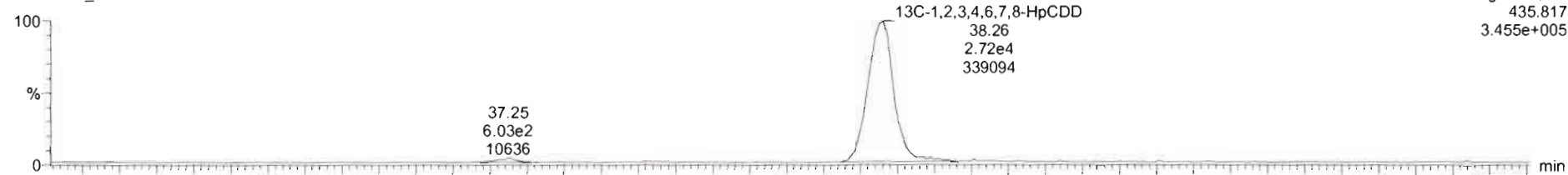


200319R1_9

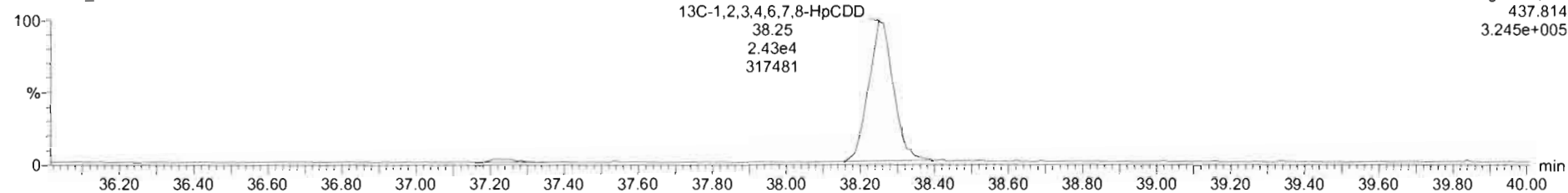


13C-1,2,3,4,6,7,8-HpCDD

200319R1_9



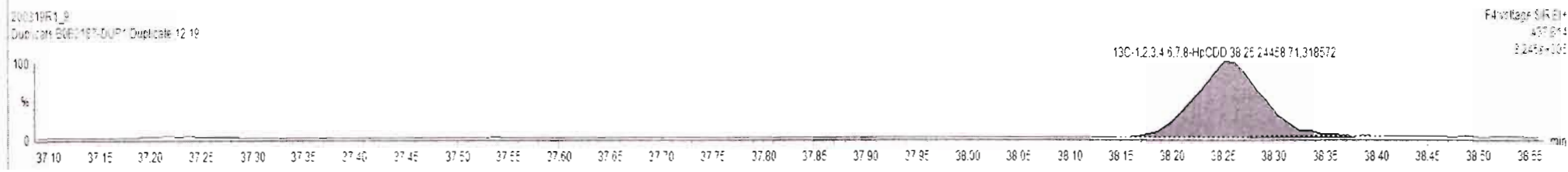
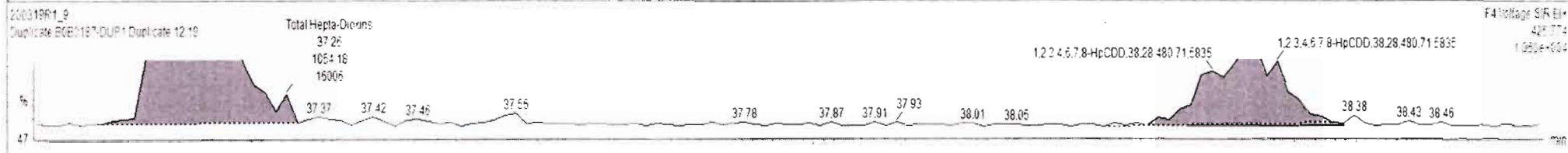
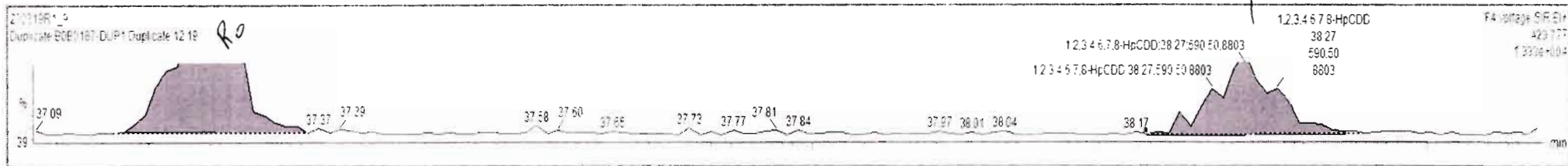
200319R1_9



200319R1_9 - B0B0187-DUP1 Duplicate 12.19 - Duplicate

Name	Conc	DL	%Rec	EMPC	Abs Resp	RRF	RT	#	IS#	RA	YNI	RRT	Acq Date	Acq Time	1 st Chr/Noise	ID	Sample Text	Factor1	S/N	Cal File
Total Hepta-Dioxins	6.82296	0.555		9.93389		1.006	42						19-Mar-20	22:40:53		B0B0187-D...	Duplicate	0.0	12.2	def_1...
Total Tetra-Furans		0.0707				0.915	42						19-Mar-20	22:40:53		B0B0187-D...	Duplicate	0.0	12.2	def_1...
1st Func. Penta-Furans		0.0625				0.959	44						19-Mar-20	22:40:53		B0B0187-D...	Duplicate	0.0	12.2	def_1...
Total Dioxin/Furane		0.6881				0.940	24						19-Mar-20	22:40:53		B0B0187-D...	Duplicate	0.0	12.2	def_1...

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC
1,2,3,4,6,7,8-HpCDD	38.27	8.802e3	5.635e2	5.905e2	4.607e2	1.23	N/S	1.071e2	0.000	2.11
Total Hepta-Dioxins	37.26	1.541e4	1.601e4	1.037e3	1.054e3	1.04	NO	2.151e2	2.82	6.52



Ready

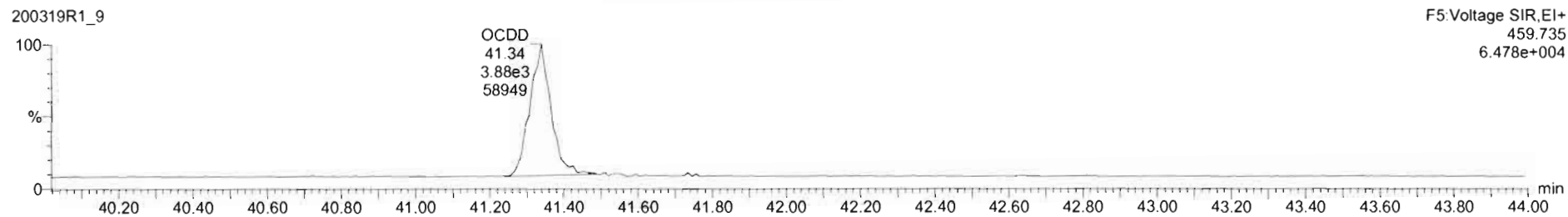
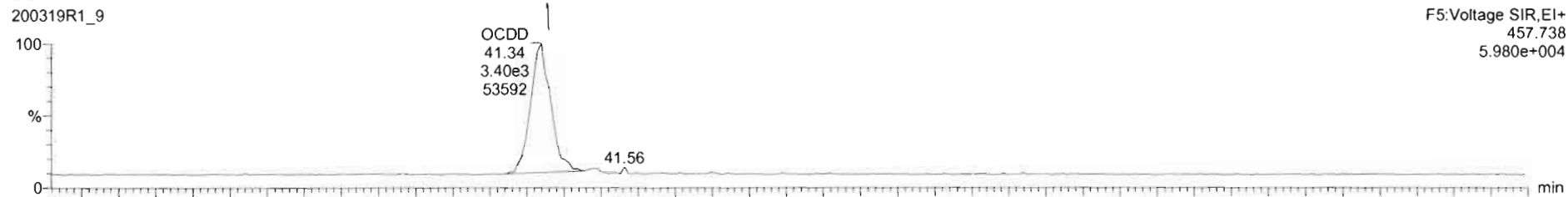
Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

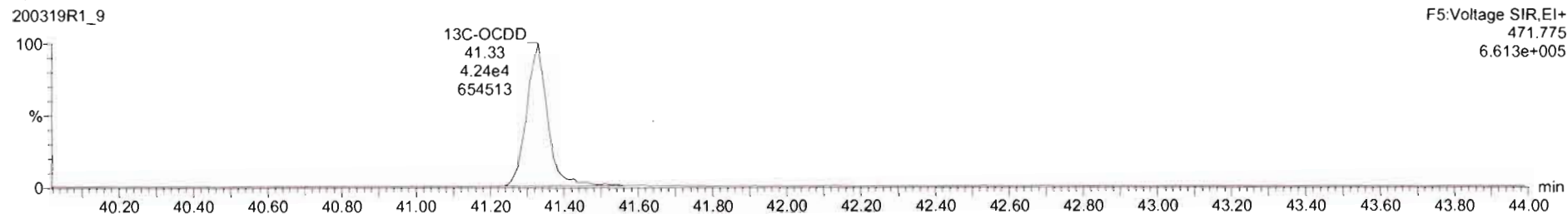
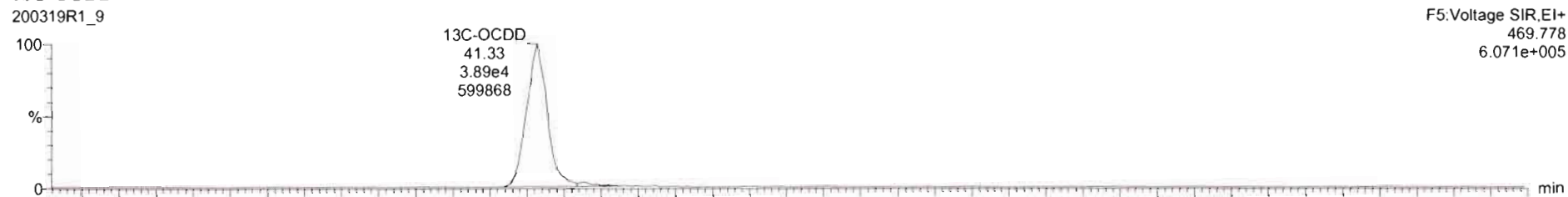
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

OCDD



13C-OCDD



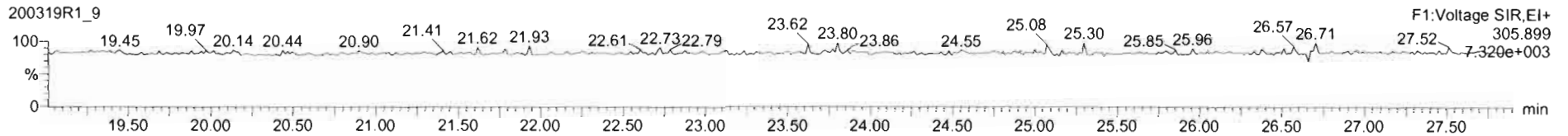
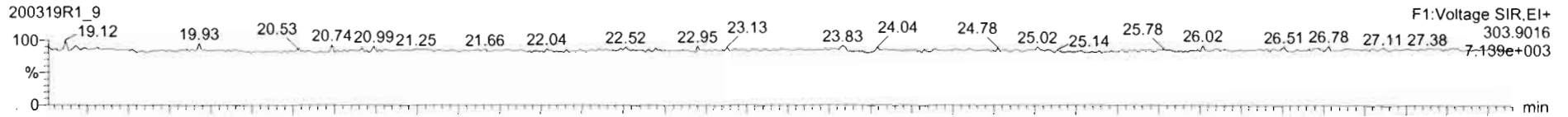
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

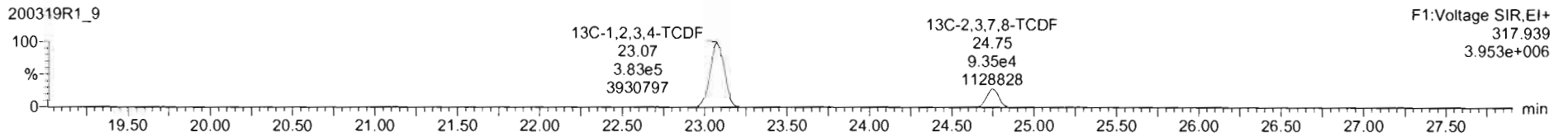
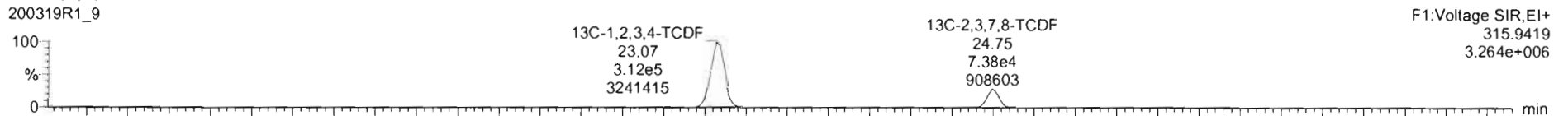
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

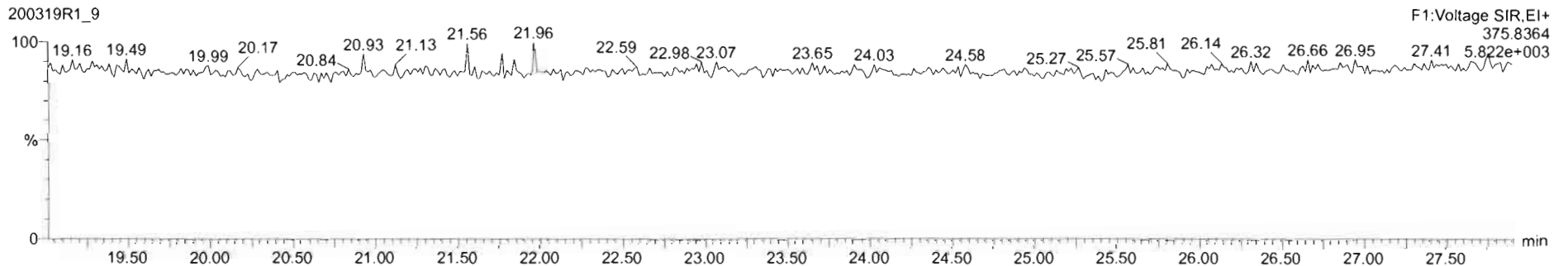
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

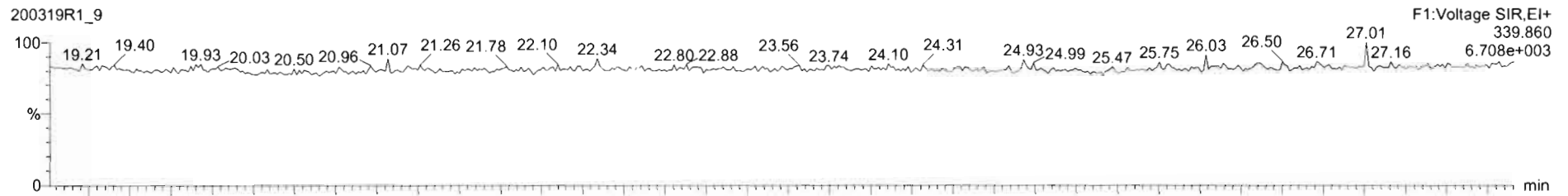
Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

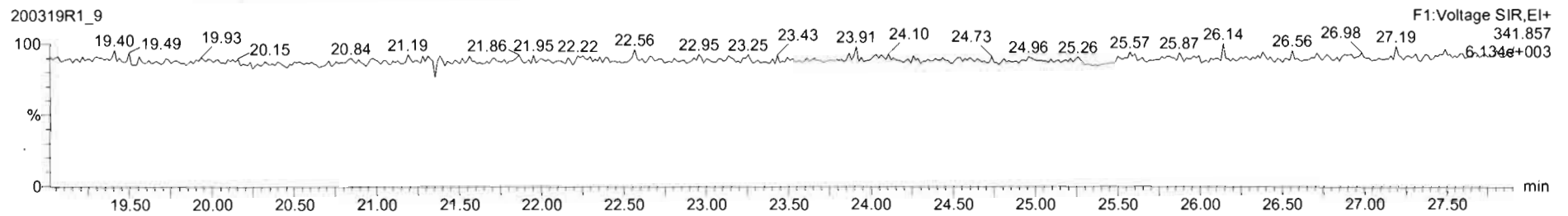
Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

1st Func. Penta-Furans

200319R1_9

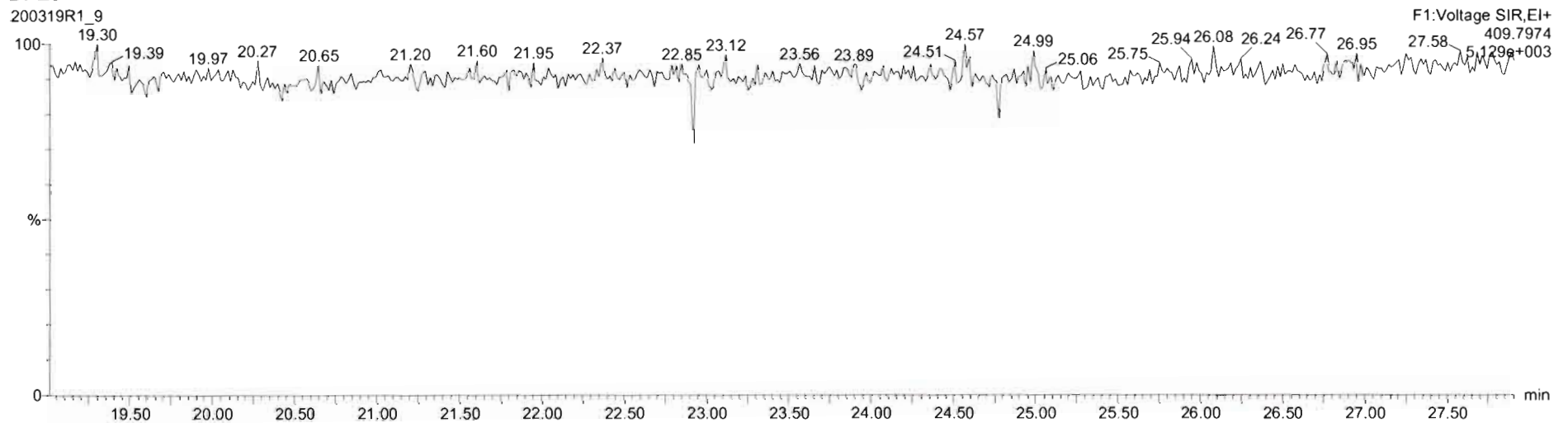


200319R1_9



DPE6

200319R1_9



Dataset: Untitled

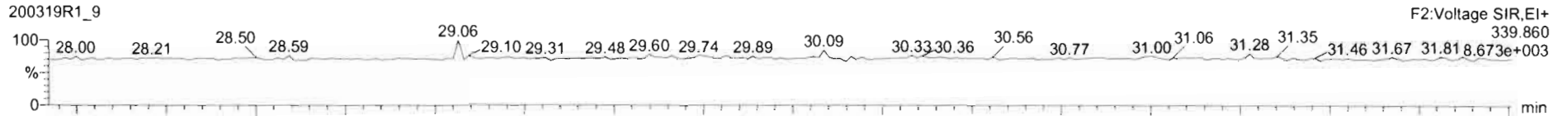
Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

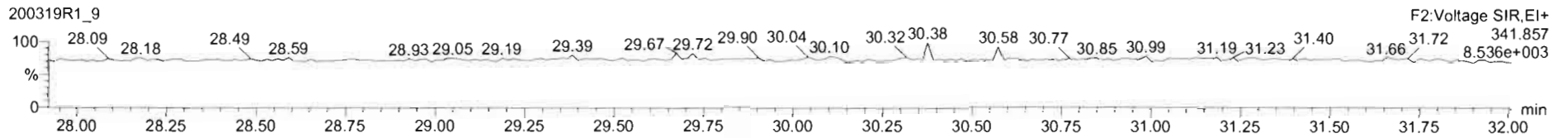
Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

1,2,3,7,8-PeCDF

200319R1_9



200319R1_9

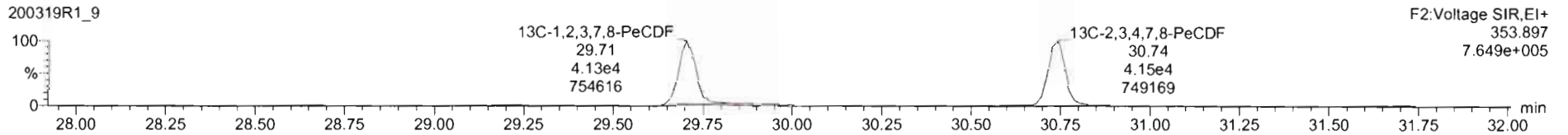


13C-1,2,3,7,8-PeCDF

200319R1_9

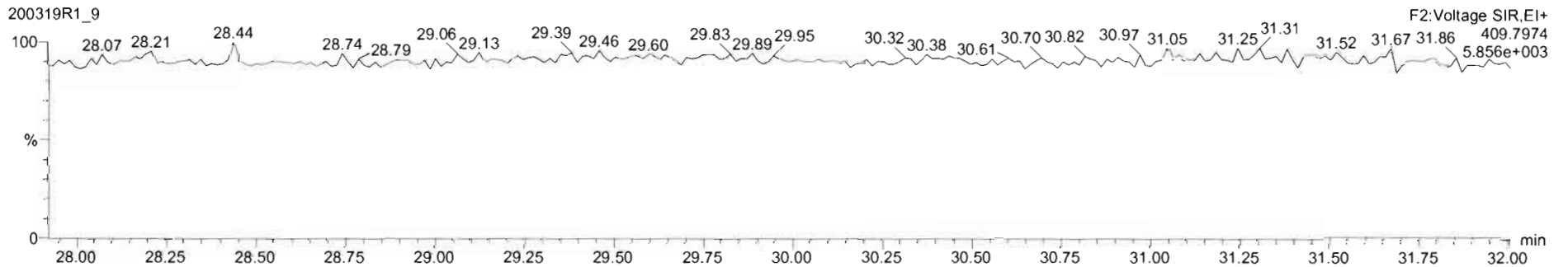


200319R1_9



DPE2

200319R1_9



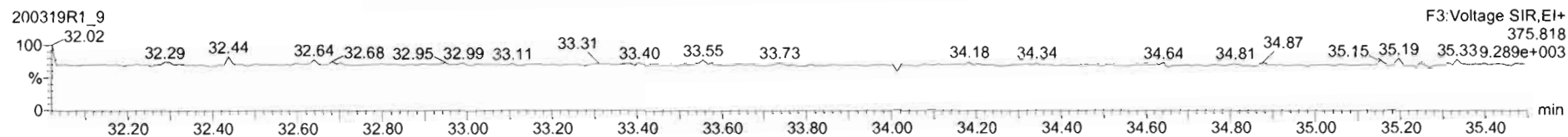
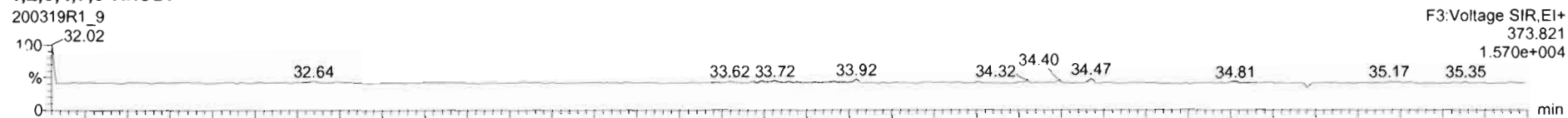
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

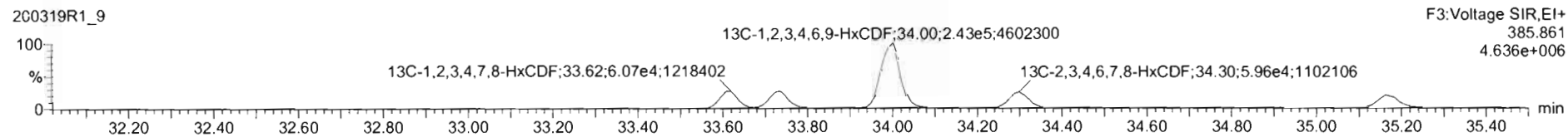
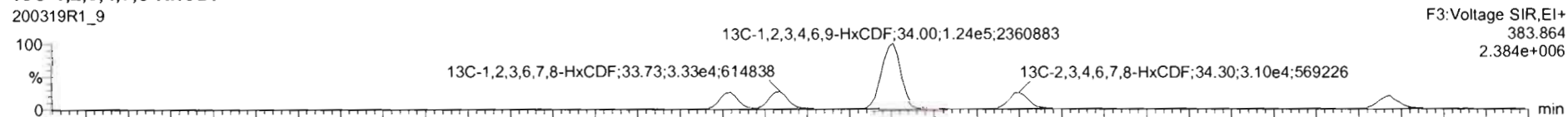
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

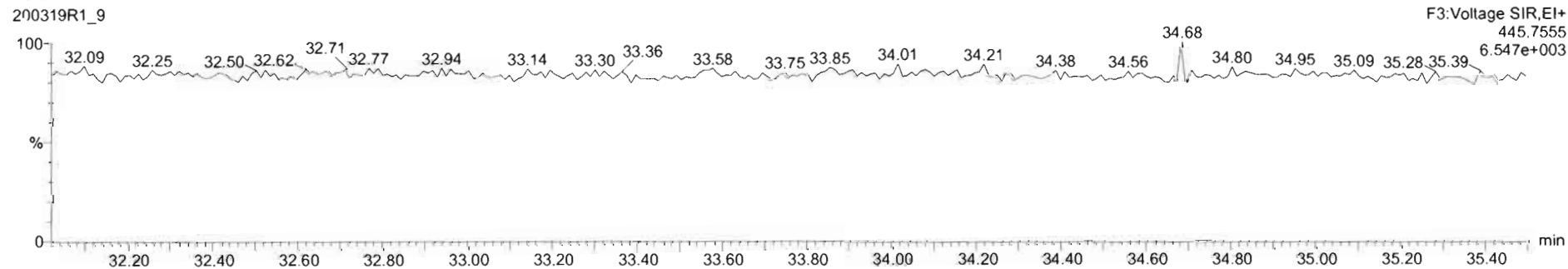
1,2,3,4,7,8-HxCDF



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



DPE3

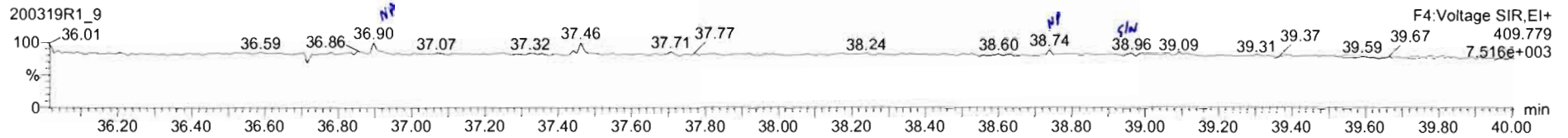
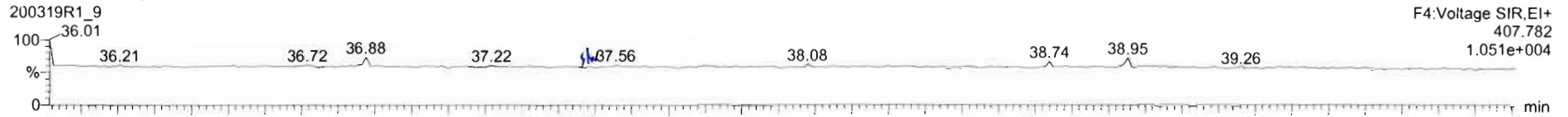


Dataset: Untitled

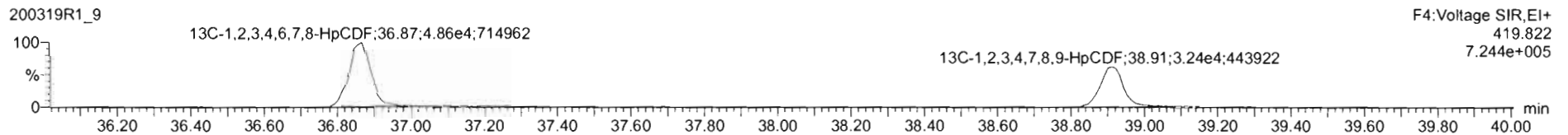
Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

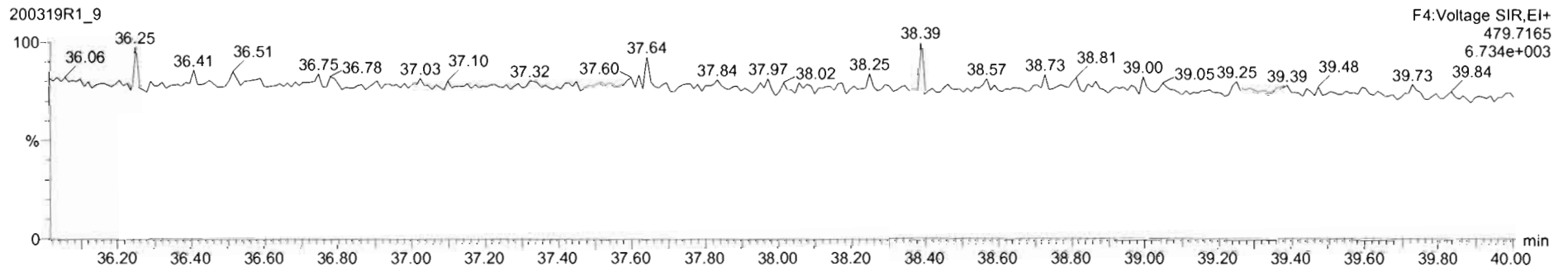
1,2,3,4,6,7,8-HpCDF



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



DPE4

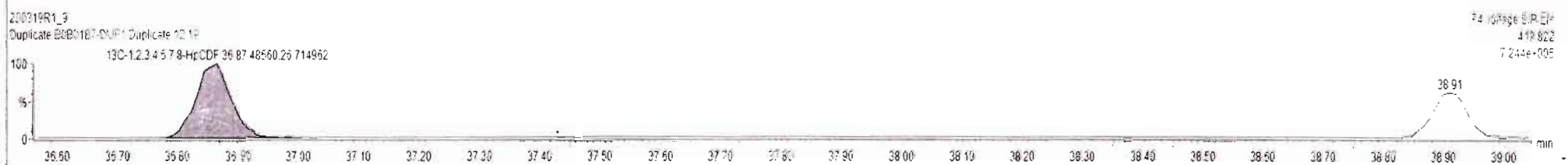
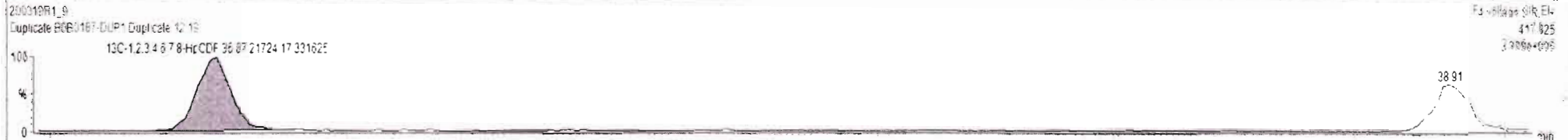
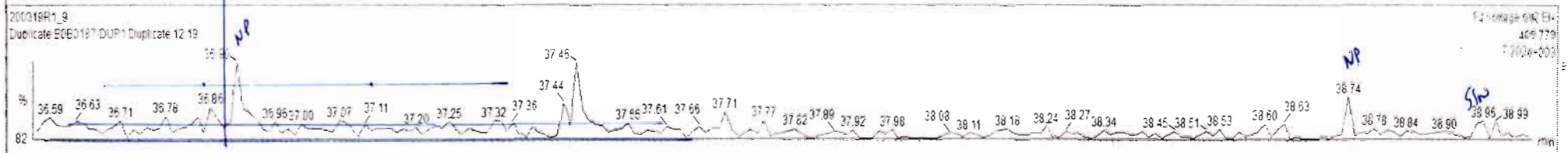
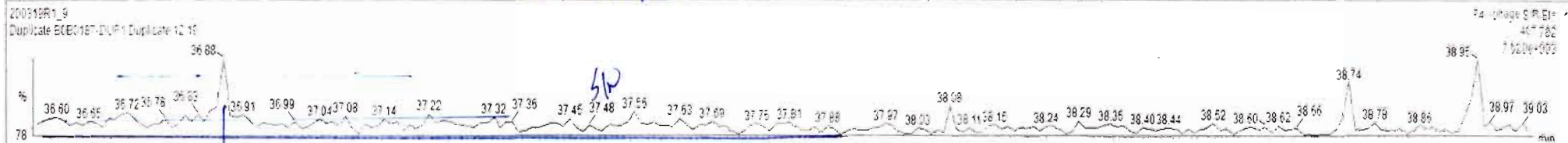


200319R1_9 - B0B0187-DUP1 Duplicate 12.19 - Duplicate

Name	Conc.	DL	%Rec	EMPC	Abs.Resp	RIF	RT	#	IS#	RA	YM	RRT	Acq.Date	Acq.Time	1° Chr.Noise	ID	Sample Text	Factor1	SV#	Cal File	
47 Total Hepta-Furans		0.135				1.048	47						19-Mar-20	22:46:53		B0B0187-D...	Duplicate	0.0	12.2	db5_1...	
48 PFK1							48											1			
49 PFK2							49											1			
50 PFK3							50											1			

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

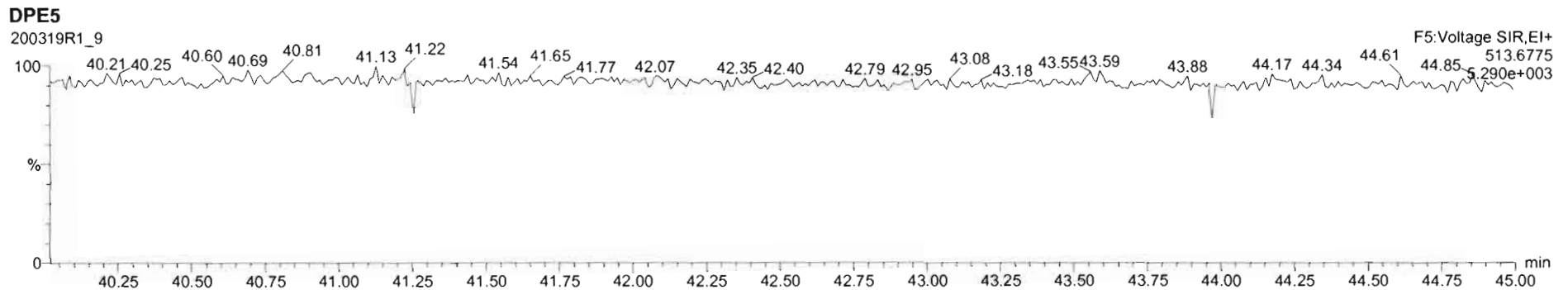
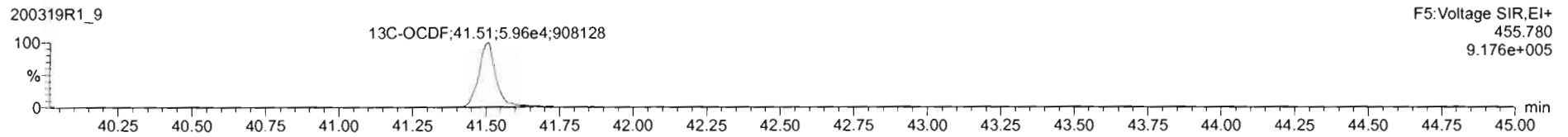
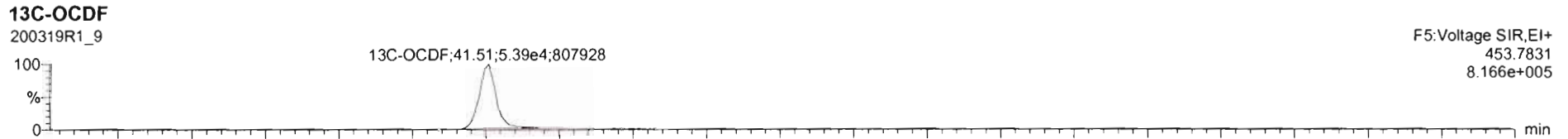
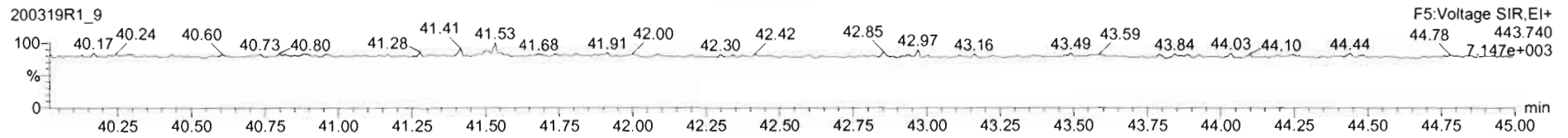
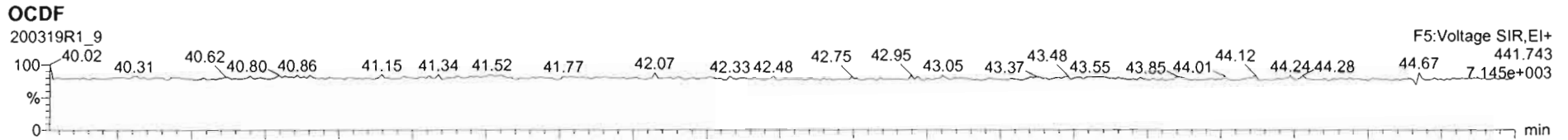
NP = Noise Peak



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate

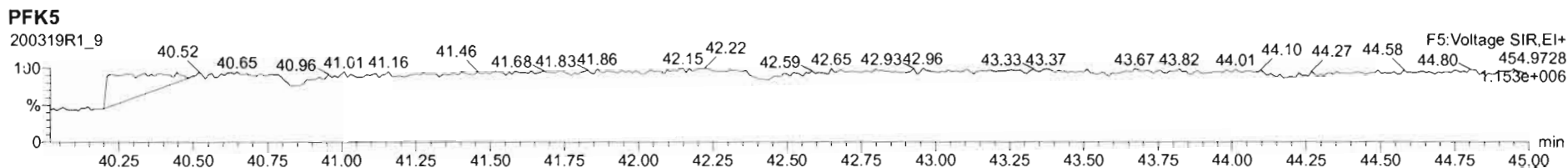
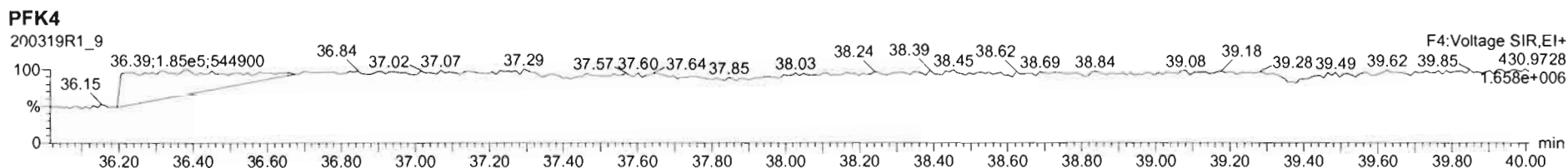
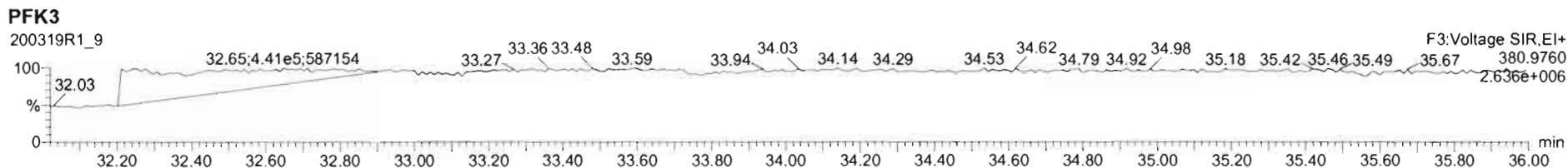
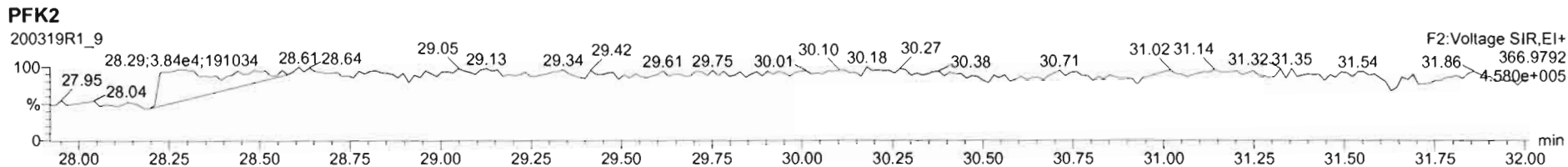
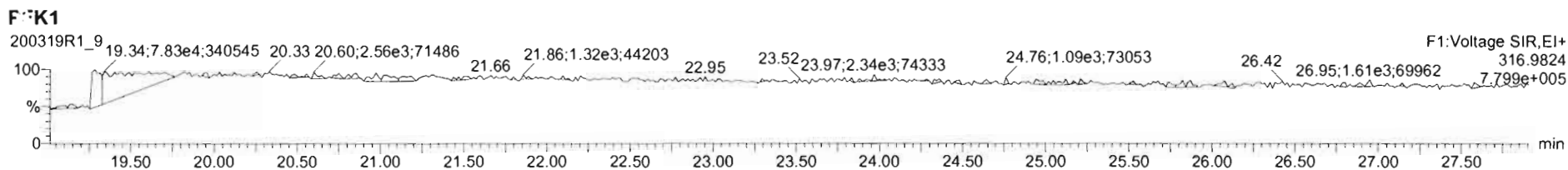


Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_9, Date: 19-Mar-2020, Time: 22:40:53, ID: B0B0187-DUP1 Duplicate 12.19, Description: Duplicate



Dataset: U:\VG12.PRO\Results\200319R1\200319R1-11c.qld

Last Altered: Monday, March 30, 2020 8:29:59 AM Pacific Daylight Time

Printed: Monday, March 30, 2020 8:33:25 AM Pacific Daylight Time

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Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

6704/01/2020

Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

#	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	0.983	10.012	25.781		1.001				0.139	
2	2 1,2,3,7,8-PeCDD			NO	0.921	10.012	31.086		1.001				0.205	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.012	34.480		1.000				0.143	
4	4 1,2,3,6,7,8-HxCDD	4.22e2	1.02	YES	0.984	10.012	34.576	34.58	1.000	1.000	0.37150		0.144	0.339
5	5 1,2,3,7,8,9-HxCDD	4.20e2	1.49	YES	0.967	10.012	34.853	34.86	1.000	1.001	0.41608		0.167	0.374
6	6 1,2,3,4,6,7,8-HpCDD	3.85e3	1.07	NO	1.01	10.012	38.273	38.27	1.000	1.000	5.2957		0.362	5.30
7	7 OCDD	1.60e4	0.90	NO	1.05	10.012	41.340	41.35	1.000	1.000	55.224		0.713	55.2
8	8 2,3,7,8-TCDF	8.38e2	0.74	NO	0.915	10.012	24.772	24.79	1.001	1.002	0.28299		0.219	0.283
9	9 1,2,3,7,8-PeCDF	3.56e2	1.16	YES	0.959	10.012	29.742	29.72	1.001	1.000	0.16837		0.135	0.149
10	10 2,3,4,7,8-PeCDF	9.45e2	1.79	YES	1.00	10.012	30.774	30.77	1.001	1.001	0.48935		0.128	0.448
11	11 1,2,3,4,7,8-HxCDF	1.48e3	1.30	NO	1.04	10.012	33.618	33.64	1.000	1.001	0.90481		0.0871	0.905
12	12 1,2,3,6,7,8-HxCDF	1.36e3	1.29	NO	1.01	10.012	33.745	33.76	1.000	1.001	0.79691		0.0938	0.797
13	13 2,3,4,6,7,8-HxCDF	6.92e2	1.34	NO	1.09	10.012	34.310	34.32	1.000	1.000	0.45317		0.101	0.453
14	14 1,2,3,7,8,9-HxCDF			NO	1.03	10.012	35.183		1.000				0.122	
15	15 1,2,3,4,6,7,8-HpCDF	1.23e4	0.99	NO	1.05	10.012	36.903	36.89	1.001	1.001	11.236		0.207	11.2
16	16 1,2,3,4,7,8,9-HpCDF	4.69e2	0.88	YES	1.21	10.012	38.922	38.92	1.000	1.000	0.57067		0.287	0.524
17	17 OCDF	2.31e3	0.93	NO	0.947	10.012	41.521	41.54	1.000	1.001	4.6301		0.361	4.63
18	18 13C-2,3,7,8-TCDD	4.05e5	0.80	NO	1.18	10.012	25.750	25.75	1.029	1.029	173.15	86.7	0.390	
19	19 13C-1,2,3,7,8-PeCDD	2.47e5	0.63	NO	0.864	10.012	30.937	31.06	1.236	1.241	144.67	72.4	0.322	
20	20 13C-1,2,3,4,7,8-HxCDD	1.93e5	1.31	NO	0.754	10.012	34.474	34.48	1.014	1.014	127.23	63.7	0.317	
21	21 13C-1,2,3,6,7,8-HxCDD	2.30e5	1.29	NO	0.925	10.012	34.582	34.58	1.017	1.017	123.99	62.1	0.259	
22	22 13C-1,2,3,7,8,9-HxCDD	2.09e5	1.26	NO	0.829	10.012	34.844	34.84	1.025	1.025	125.57	62.9	0.288	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.44e5	1.05	NO	0.598	10.012	38.306	38.26	1.127	1.125	120.19	60.2	0.401	
24	24 13C-OCDD	1.10e5	0.91	NO	0.571	10.012	41.457	41.34	1.219	1.216	95.995	24.0	0.322	
25	25 13C-2,3,7,8-TCDF	6.46e5	0.80	NO	1.09	10.012	24.772	24.75	0.990	0.989	159.74	80.0	0.483	
26	26 13C-1,2,3,7,8-PeCDF	4.40e5	1.60	NO	0.876	10.012	29.608	29.72	1.183	1.187	135.19	67.7	0.482	
27	27 13C-2,3,4,7,8-PeCDF	3.84e5	1.63	NO	0.844	10.012	30.619	30.74	1.223	1.228	122.69	61.4	0.501	
28	28 13C-1,2,3,4,7,8-HxCDF	3.15e5	0.52	NO	1.00	10.012	33.620	33.62	0.989	0.989	156.91	78.6	0.478	
29	29 13C-1,2,3,6,7,8-HxCDF	3.36e5	0.54	NO	1.12	10.012	33.729	33.74	0.992	0.992	149.84	75.0	0.428	
30	30 13C-2,3,4,6,7,8-HxCDF	2.79e5	0.53	NO	1.04	10.012	34.310	34.31	1.009	1.009	134.48	67.3	0.462	
31	31 13C-1,2,3,7,8,9-HxCDF	2.69e5	0.50	NO	0.873	10.012	35.184	35.18	1.035	1.035	153.64	76.9	0.547	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-11c.qld

Last Altered: Monday, March 30, 2020 8:29:59 AM Pacific Daylight Time
Printed: Monday, March 30, 2020 8:33:25 AM Pacific Daylight Time

Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	2.09e5	0.42	NO	0.771	10.012	36.901	36.87	1.085	1.084	135.17	67.7	0.431	
33	33 13C-1,2,3,4,7,8,9-HpCDF	1.36e5	0.45	NO	0.519	10.012	38.989	38.92	1.147	1.145	130.25	65.2	0.640	
34	34 13C-OCDF	2.10e5	0.88	NO	0.696	10.012	41.638	41.52	1.225	1.221	150.50	37.7	0.308	
35	35 37Cl-2,3,7,8-TCDD	1.59e5			1.17	10.012	25.760	25.78	1.029	1.030	68.511	85.7	0.0590	
36	36 13C-1,2,3,4-TCDD	3.94e5	0.80	NO	1.00	10.012	25.050	25.03	1.000	1.000	199.76	100	0.462	
37	37 13C-1,2,3,4-TCDF	7.42e5	0.81	NO	1.00	10.012	23.190	23.07	1.000	1.000	199.76	100	0.526	
38	38 13C-1,2,3,4,6,9-HxCDF	4.01e5	0.53	NO	1.00	10.012	33.880	34.00	1.000	1.000	199.76	100	0.478	
39	39 Total Tetra-Dioxins				0.983	10.012	24.620		0.000		0.53663		0.139	1.32
40	40 Total Penta-Dioxins				0.921	10.012	29.960		0.000		0.63407		0.0906	0.812
41	41 Total Hexa-Dioxins				0.984	10.012	33.635		0.000		2.5813		0.157	5.22
42	42 Total Hepta-Dioxins				1.01	10.012	37.640		0.000		14.225		0.362	14.2
43	43 Total Tetra-Furans				0.915	10.012	23.610		0.000		6.9009		0.219	7.38
44	44 1st Func. Penta-Furans				0.959	10.012	27.090		0.000		1.9234		0.0475	1.92
45	45 Total Penta-Furans				0.959	10.012	29.275		0.000		2.4434		0.134	3.92
46	46 Total Hexa-Furans				1.09	10.012	33.555		0.000		8.5916		0.0954	8.77
47	47 Total Hepta-Furans				1.05	10.012	37.835		0.000		19.738		0.256	20.3

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-11c.qld

Last Altered: Monday, March 30, 2020 8:29:59 AM Pacific Daylight Time
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Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.41	4.087e3	7.269e3	4.856e2	5.840e2	0.83	NO	1.070e3	0.53663	0.53663	0.139
2	Total Tetra-Dioxins	21.78	3.936e3	5.666e3	3.753e2	4.529e2	0.83	NO	0.000e0	0.00000	0.41547	0.139
3	Total Tetra-Dioxins	23.30	4.406e3	4.894e3	3.726e2	4.124e2	0.90	YES	0.000e0	0.00000	0.36618	0.139

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.75	2.721e3	3.998e3	1.897e2	2.962e2	0.64	NO	4.859e2	0.42668	0.42668	0.205
2	Total Penta-Dioxins	29.98	2.147e3	2.720e3	9.595e1	1.402e2	0.68	NO	2.362e2	0.20739	0.20739	0.0906
3	Total Penta-Dioxins	30.27	2.028e3	5.026e3	7.817e1	1.601e2	0.49	YES	0.000e0	0.00000	0.17762	0.0906

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.02	2.403e4	2.201e4	1.236e3	1.017e3	1.22	NO	2.253e3	2.1707	2.1707	0.157
2	Total Hexa-Dioxins	33.56	4.219e3	3.823e3	2.394e2	1.867e2	1.28	NO	4.261e2	0.41053	0.41053	0.157
3	Total Hexa-Dioxins	33.83	2.088e4	1.975e4	1.281e3	8.944e2	1.43	YES	0.000e0	0.00000	1.9300	0.157
4	1,2,3,6,7,8-HxCDD	34.58	4.336e3	5.515e3	2.129e2	2.087e2	1.02	YES	4.216e2	0.00000	0.33888	0.144
5	1,2,3,7,8,9-HxCDD	34.86	6.373e3	3.385e3	2.512e2	1.690e2	1.49	YES	4.202e2	0.00000	0.37392	0.167

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.27	4.848e4	4.686e4	3.383e3	3.107e3	1.09	NO	6.490e3	8.9293	8.9293	0.362
2	1,2,3,4,6,7,8-HpCDD	38.27	2.595e4	2.410e4	1.987e3	1.862e3	1.07	NO	3.849e3	5.2957	5.2957	0.362

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-11c.qld

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.40	4.404e3	6.803e3	3.447e2	6.003e2	0.57	YES	0.000e0	0.00000	0.26766	0.219
2	Total Tetra-Furans	19.88	5.524e3	6.758e3	4.680e2	6.196e2	0.76	NO	1.088e3	0.36740	0.36740	0.219
3	Total Tetra-Furans	20.47	2.554e4	4.255e4	2.117e3	2.994e3	0.71	NO	5.111e3	1.7266	1.7266	0.219
4	Total Tetra-Furans	20.98	7.013e3	8.382e3	9.148e2	1.265e3	0.72	NO	2.180e3	0.73637	0.73637	0.219
5	Total Tetra-Furans	21.39	9.996e3	1.423e4	1.330e3	1.624e3	0.82	NO	2.953e3	0.99766	0.99766	0.219
6	Total Tetra-Furans	21.80	4.312e3	8.486e3	5.930e2	8.622e2	0.69	NO	1.455e3	0.49158	0.49158	0.219
7	Total Tetra-Furans	22.16	2.794e3	3.484e3	2.418e2	3.182e2	0.76	NO	5.601e2	0.18919	0.18919	0.219
8	Total Tetra-Furans	22.61	2.797e3	2.713e3	2.006e2	2.521e2	0.80	NO	4.527e2	0.15293	0.15293	0.219
9	Total Tetra-Furans	22.77	3.833e3	3.578e3	2.394e2	3.384e2	0.71	NO	5.778e2	0.19518	0.19518	0.219
10	Total Tetra-Furans	22.95	5.846e3	1.046e4	6.422e2	7.690e2	0.84	NO	1.411e3	0.47670	0.47670	0.219
11	Total Tetra-Furans	23.67	6.484e3	5.819e3	5.349e2	7.002e2	0.76	NO	1.235e3	0.41725	0.41725	0.219
12	Total Tetra-Furans	24.03	1.908e3	3.710e3	2.220e2	3.236e2	0.69	NO	5.457e2	0.18433	0.18433	0.219
13	Total Tetra-Furans	24.27	1.636e3	2.073e3	1.615e2	2.100e2	0.77	NO	3.715e2	0.12550	0.12550	0.219
14	Total Tetra-Furans	24.57	2.707e3	3.761e3	2.195e2	2.669e2	0.82	NO	4.864e2	0.16432	0.16432	0.219
15	Total Tetra-Furans	24.67	3.236e3	3.871e3	2.122e2	2.408e2	0.88	NO	4.530e2	0.15302	0.15302	0.219
16	2,3,7,8-TCDF	24.79	4.355e3	7.114e3	3.558e2	4.819e2	0.74	NO	8.377e2	0.28299	0.28299	0.219
17	Total Tetra-Furans	25.18	4.223e3	5.240e3	3.320e2	3.783e2	0.88	NO	7.102e2	0.23992	0.23992	0.219
18	Total Tetra-Furans	26.53	1.615e3	2.693e3	8.511e1	2.221e2	0.38	YES	0.000e0	0.00000	0.066085	0.219
19	Total Tetra-Furans	26.68	1.399e3	3.042e3	7.895e1	1.869e2	0.42	YES	0.000e0	0.00000	0.061304	0.219
20	Total Tetra-Furans	26.99	6.906e3	2.357e3	2.410e2	1.412e2	1.71	YES	0.000e0	0.00000	0.084444	0.219

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	26.99	3.523e4	2.408e4	2.310e3	1.497e3	1.54	NO	3.806e3	1.9234	1.9234	0.0475

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Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.53	4.566e3	5.629e3	4.588e2	3.684e2	1.25	YES	0.000e0	0.00000	0.38137	0.134
2	Total Penta-Furans	28.68	2.011e4	1.337e4	1.931e3	1.205e3	1.60	NO	3.136e3	1.5849	1.5849	0.134
3	Total Penta-Furans	29.32	9.913e3	4.938e3	7.064e2	4.553e2	1.55	NO	1.162e3	0.58700	0.58700	0.134
4	Total Penta-Furans	29.54	2.237e3	1.598e3	1.210e2	6.754e1	1.79	YES	0.000e0	0.00000	0.087024	0.134
5	1,2,3,7,8-PeCDF	29.72	3.305e3	3.110e3	1.908e2	1.648e2	1.16	YES	3.557e2	0.00000	0.14862	0.135
6	Total Penta-Furans	30.01	6.160e3	3.724e3	3.115e2	2.258e2	1.38	NO	5.373e2	0.27152	0.27152	0.134
7	Total Penta-Furans	30.09	2.018e3	2.918e3	1.048e2	1.203e2	0.87	YES	0.000e0	0.00000	0.087092	0.134
8	Total Penta-Furans	30.64	2.713e3	4.408e3	1.606e2	1.607e2	1.00	YES	0.000e0	0.00000	0.13355	0.134
9	2,3,4,7,8-PeCDF	30.77	1.437e4	1.055e4	6.056e2	3.390e2	1.79	YES	9.445e2	0.00000	0.44780	0.128
10	Total Penta-Furans	30.79	1.082e4	6.410e3	3.259e2	1.455e2	2.24	YES	0.000e0	0.00000	0.18744	0.134

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	2.135e4	1.594e4	9.061e2	7.286e2	1.24	NO	1.635e3	0.99681	0.99681	0.0954
2	Total Hexa-Furans	32.63	4.353e4	3.828e4	2.285e3	1.932e3	1.18	NO	4.217e3	2.5717	2.5717	0.0954
3	Total Hexa-Furans	33.18	5.761e4	3.970e4	2.600e3	2.104e3	1.24	NO	4.704e3	2.8683	2.8683	0.0954
4	Total Hexa-Furans	33.55	2.646e3	2.984e3	1.589e2	1.514e2	1.05	YES	0.000e0	0.00000	0.17505	0.0954
5	1,2,3,4,7,8-HxCDF	33.64	1.718e4	1.218e4	8.363e2	6.450e2	1.30	NO	1.481e3	0.90481	0.90481	0.0871
6	1,2,3,6,7,8-HxCDF	33.76	1.435e4	9.842e3	7.650e2	5.931e2	1.29	NO	1.358e3	0.79691	0.79691	0.0938
7	2,3,4,6,7,8-HxCDF	34.32	7.576e3	5.021e3	3.971e2	2.952e2	1.34	NO	6.923e2	0.45317	0.45317	0.101

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	36.89	8.761e4	9.339e4	6.146e3	6.186e3	0.99	NO	1.233e4	11.236	11.236	0.207
2	Total Hepta-Furans	37.47	5.119e4	4.916e4	3.887e3	3.806e3	1.02	NO	7.694e3	8.5018	8.5018	0.256
3	1,2,3,4,7,8,9-HpCDF	38.92	3.210e3	3.701e3	2.197e2	2.496e2	0.88	YES	4.692e2	0.00000	0.52408	0.287

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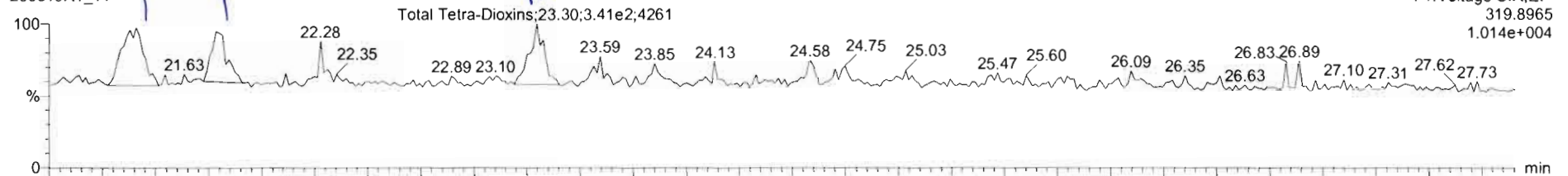
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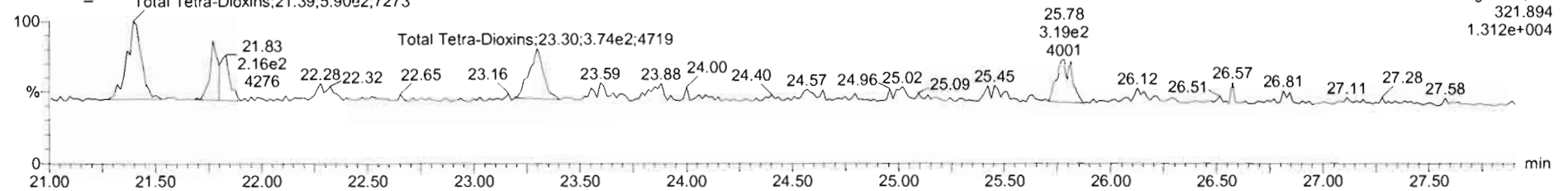
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2,3,7,8-TCDD

200319R1_11

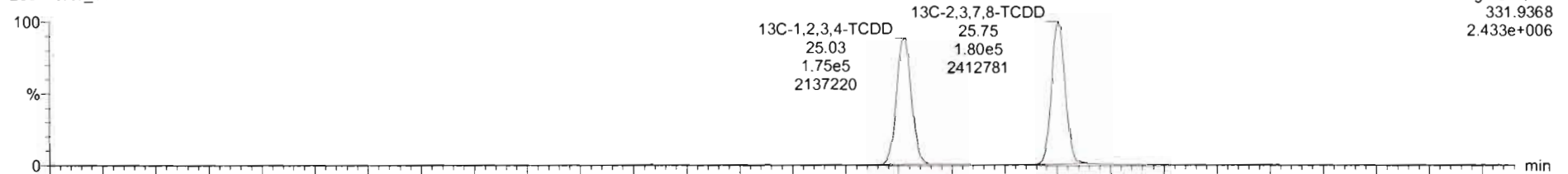


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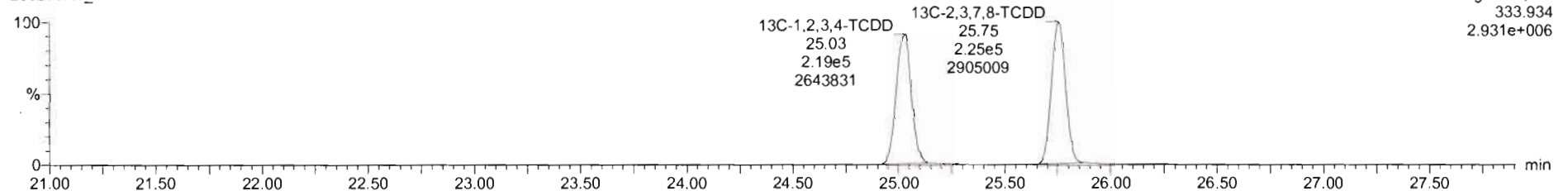


13C-2,3,7,8-TCDD

200319R1_11



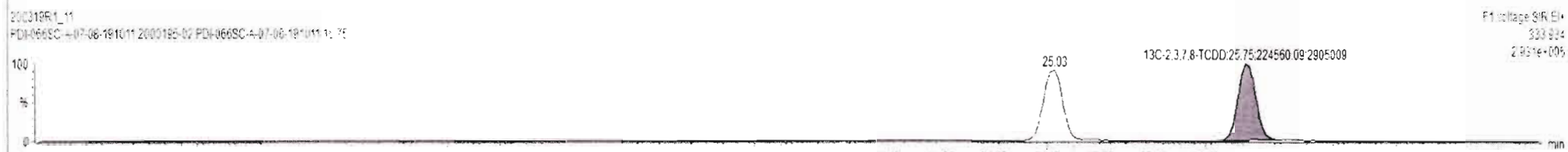
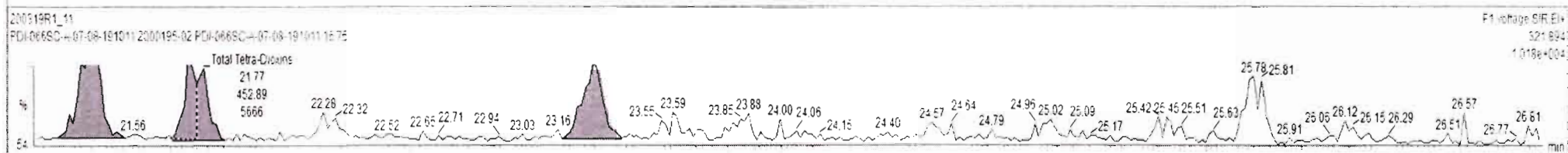
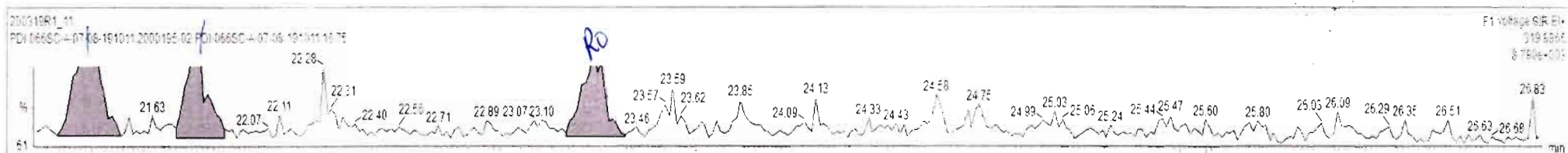
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200319R1_11 - 2000195-02 PDI-066SC-A-07-08-191011 16.75 - PDI-066SC-A-07-08-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.012			0.549		0.139	1.33
40 Total Penta-Dioxins				0.5212	10.012					0.0906	
41 Total Hexa-Dioxins				0.9244	10.012			4.58		0.157	5.06
27 Total Hexa-Dioxins				1.0251	10.012			13.8		0.360	11.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.41	4.959e2	5.951e2	0.83	NO	0.54939	0.54939
2 Total Tetra-Dioxins	21.78	2.753e2	4.529e2	0.61	NO	0.41547	0.00000
3 Total Tetra-Dioxins	22.30	3.726e2	4.124e2	0.90	YES	0.06618	0.00000

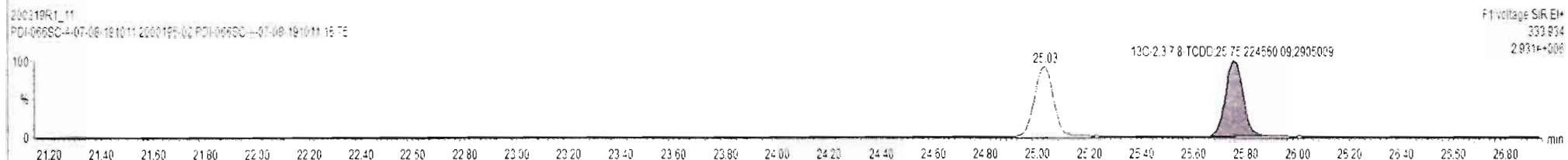
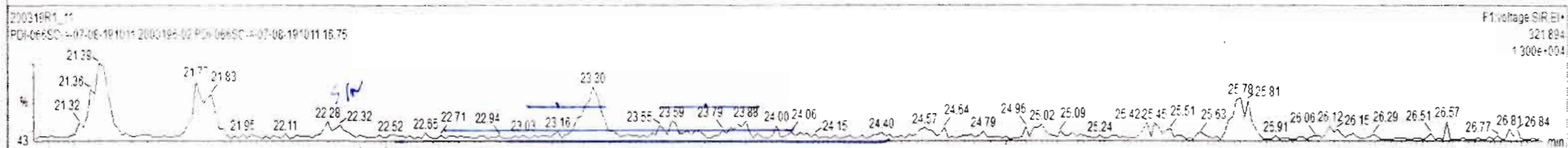
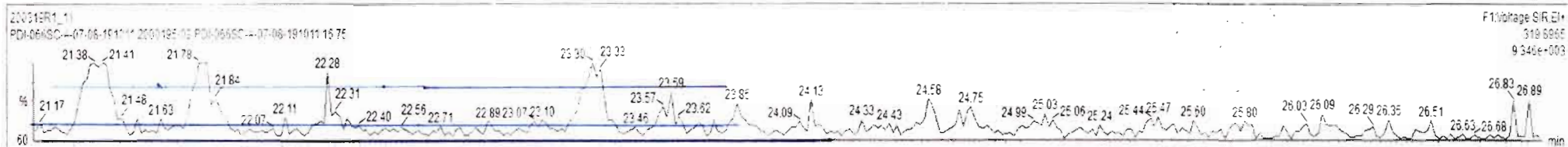




200319R1_11 - 2000195-02 PDI-066SC-A-07-08-191011 16.75 - PDI-066SC-A-07-08-191011

Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
1	237.8-TCDD			NC	0.9835	10.012				0.136	
2	123.78-PeCDD			NC	0.9212	10.012				0.225	
3	123.47.8-HxCDD			NC	1.1325	10.012				0.142	
4	123.47.8-HxCDF			NC	0.8822	10.012				0.122	

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



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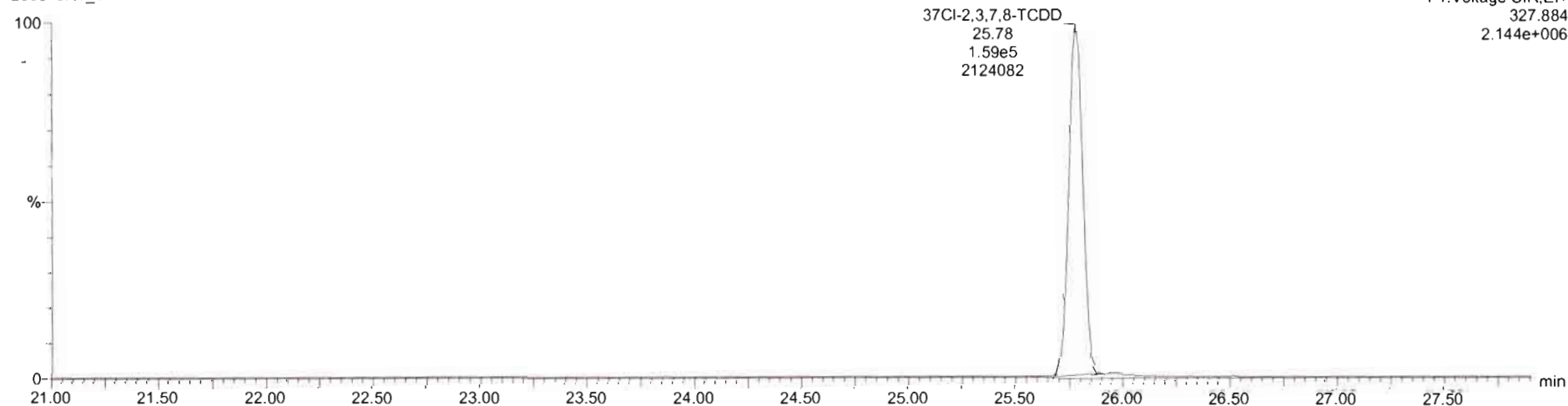
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Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

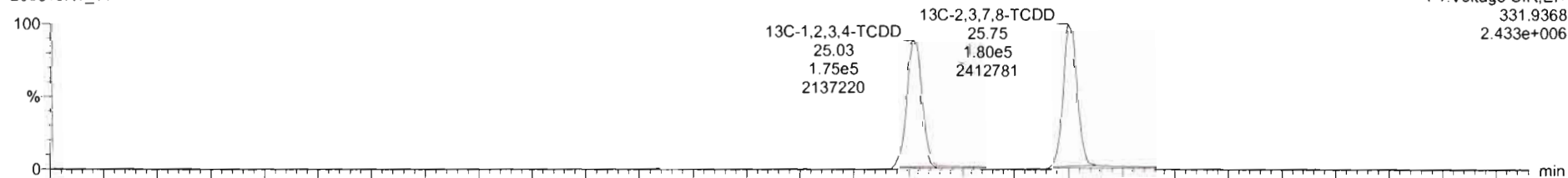
37Cl-2,3,7,8-TCDD

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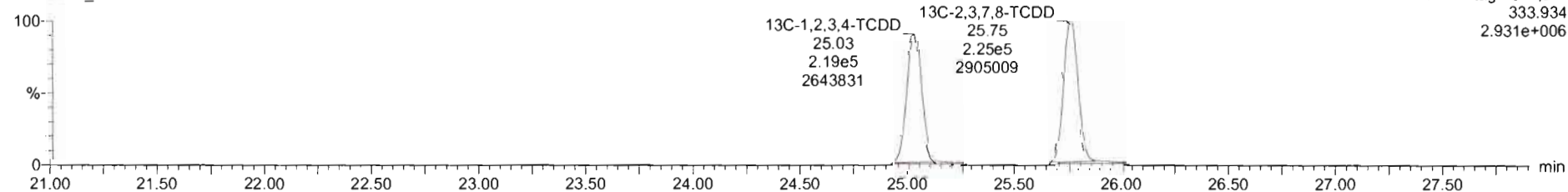


13C-1,2,3,4-TCDD

200319R1_11



200319R1_11



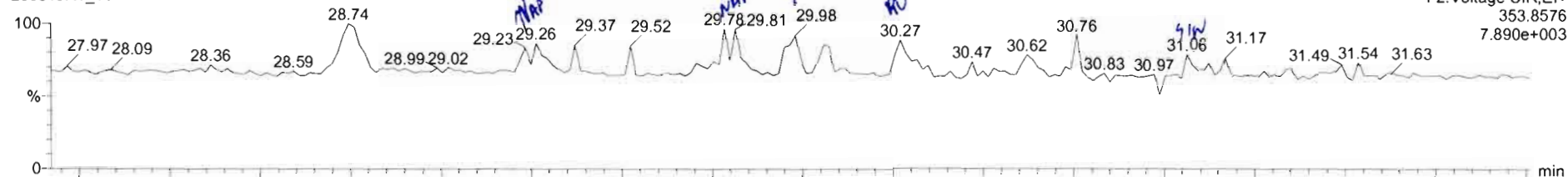
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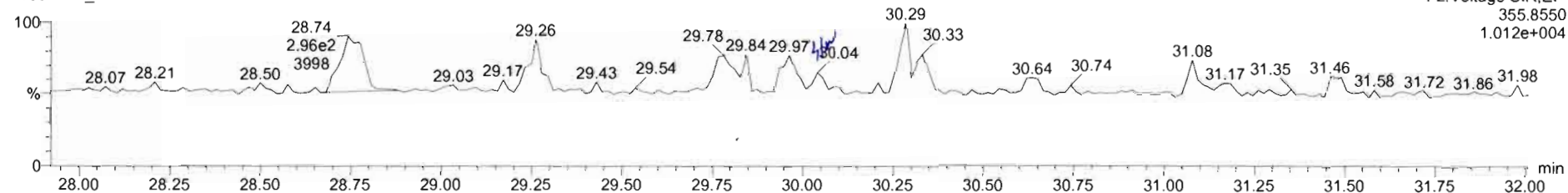
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1,2,3,7,8-PeCDD

200319R1_11

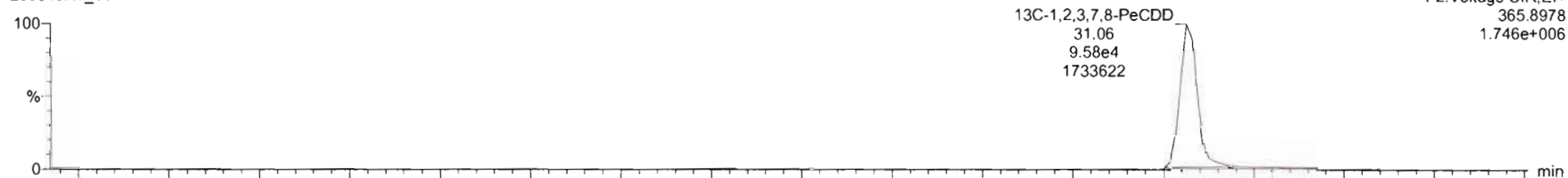


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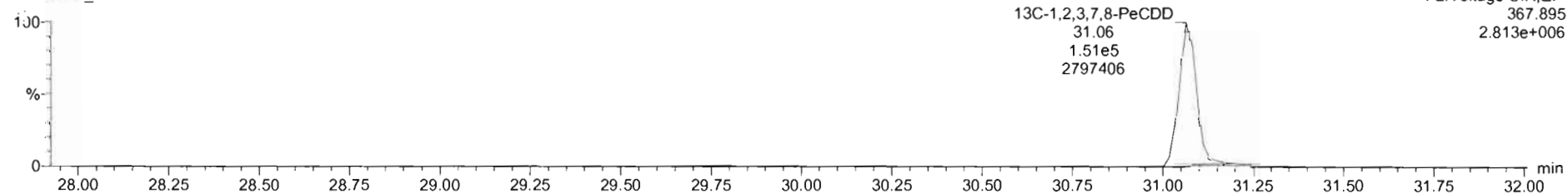


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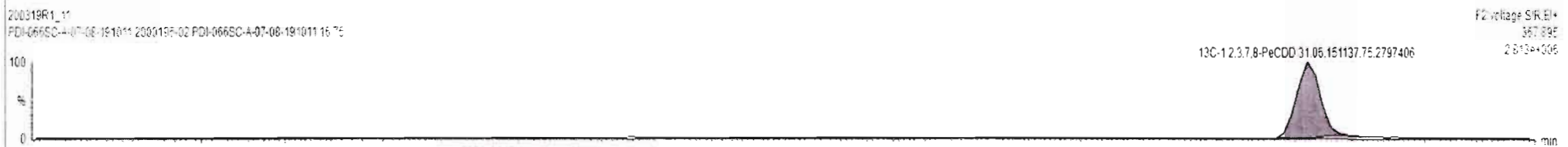
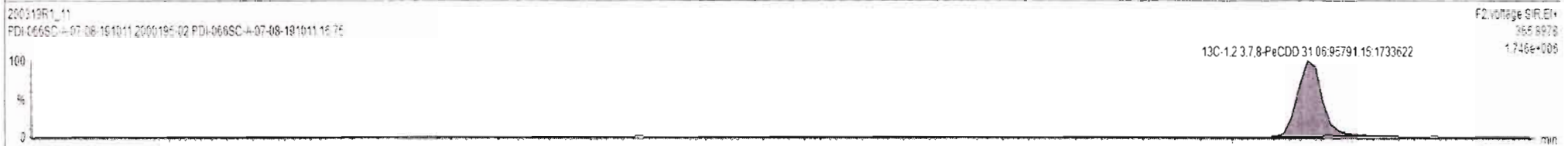
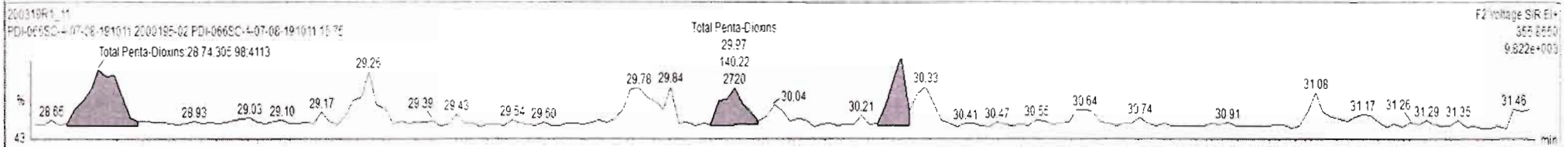
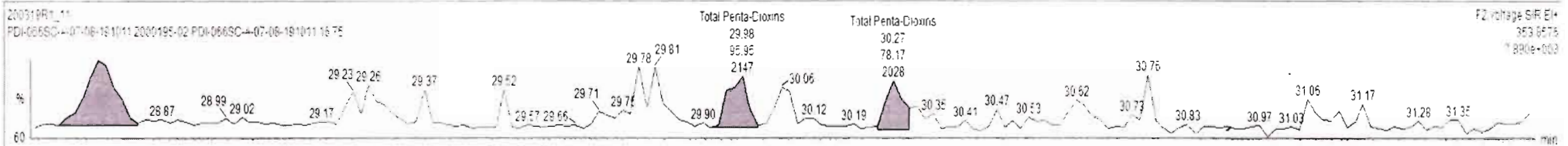


200319R1_11



Name	Resp	RA	nHy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9635	10.012			0.549		0.139	1.32
40 Total Penta-Dioxins				0.9212	10.012			0.643	0.0906	0.820	
41 Total Hexa-Dioxins				0.9844	10.012			4.55	0.157	5.02	
42 Total Hepta-Dioxins				1.0021	10.012			13.8	0.225	15.2	

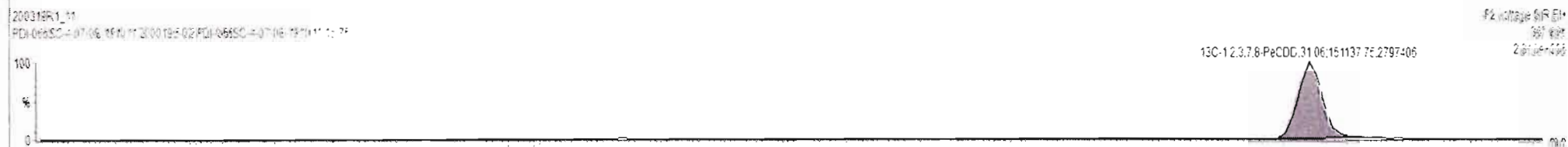
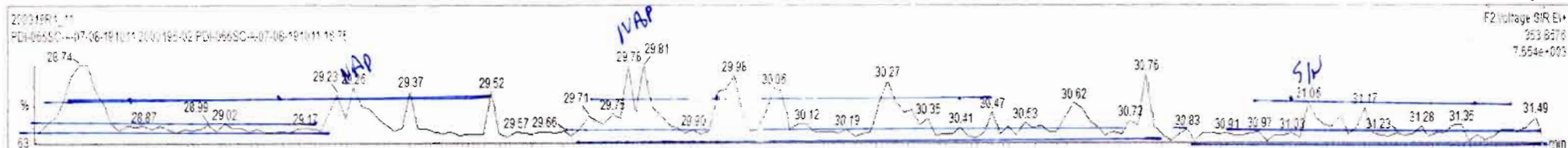
Name	RT	m1 Resp	m2 Resp	RA	nHy	EMPC	Conc.
1 Total Penta-Dioxins	28.74	1.897e2	2.050e2	0.62	NO	0.42520	0.42520
2 Total Penta-Dioxins	29.98	5.595e1	1.402e2	0.68	NO	0.20729	0.20729
3 Total Penta-Dioxins	30.27	7.817e1	1.601e2	0.45	YES	0.17782	0.00000



200319R1_11 - 2000195-02 PDI-066SC-A-07-08-191011 16.75 - PDI-066SC-A-07-08-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5875	10.012			0.549		0.139	1.22
40 Total Penta-Dioxins				0.9212	10.012				0.0906		
41 Total Hexa-Dioxins				0.5844	10.012			4.58		0.157	5.06
27 Total Hama,Pyrene				1.0081	10.012			17.81		0.322	17.81

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



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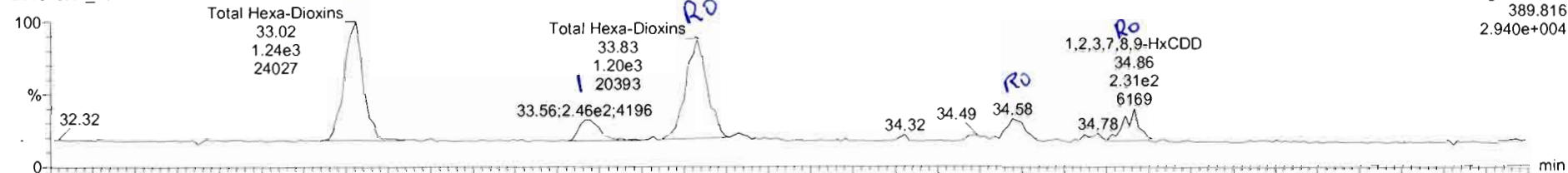
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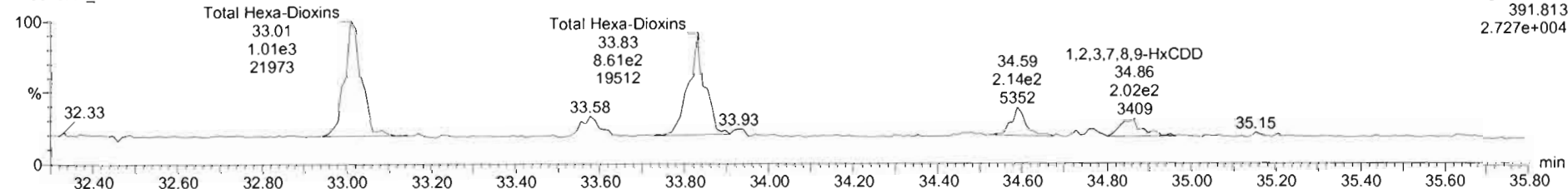
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1,2,3,4,7,8-HxCDD

200319R1_11

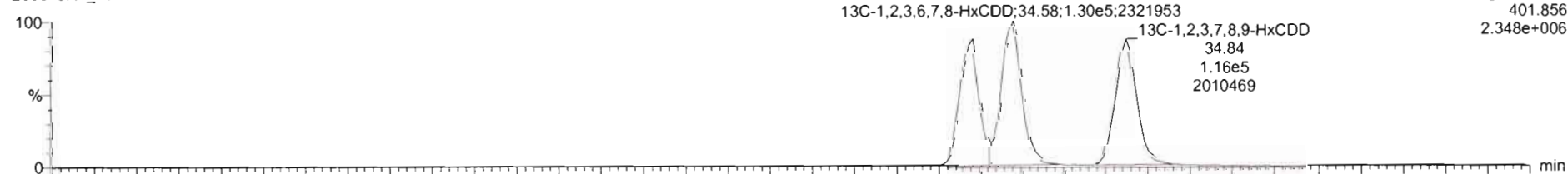


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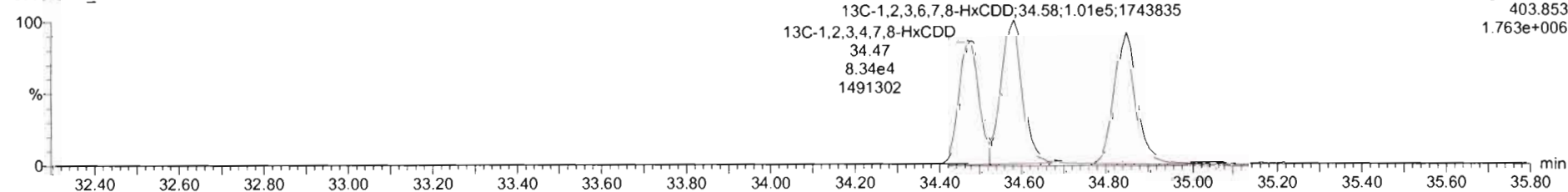


13C-1,2,3,4,7,8-HxCDD

200319R1_11

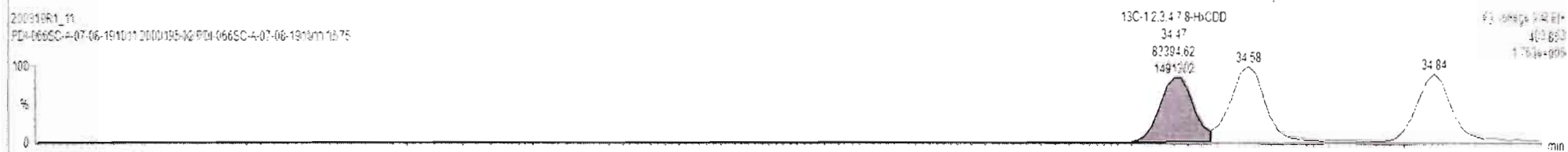
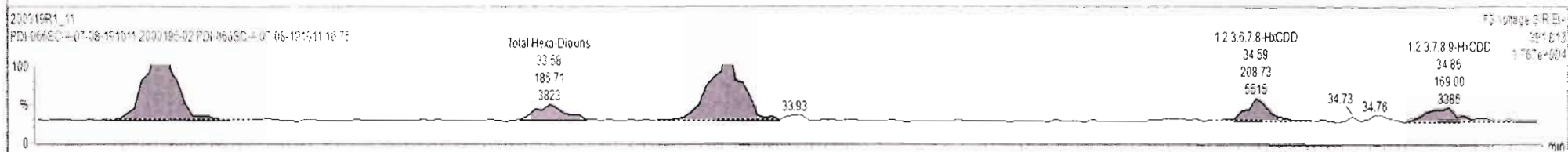
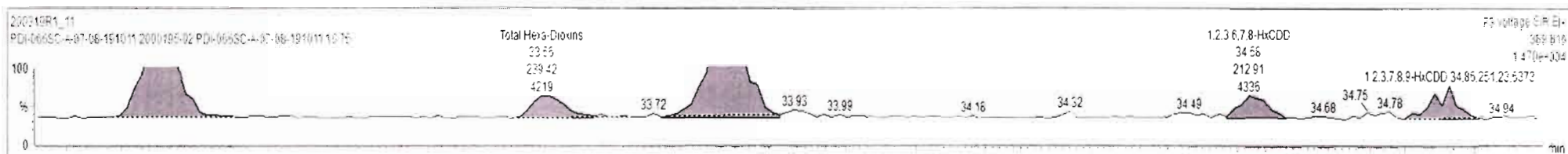


200319R1_11



Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9844	10.012			2.58		0.157	5.22
42 Total Hepta-Dioxins				1.0081	10.012			14.2		0.382	14.2
43 Total Tetra-Furans				0.9154	10.012			5.72		0.219	6.07
44 1st Func. Penta-Furans				0.9594	10.012			1.52		0.0475	1.92
45 Total Penta-Furans				0.9594	10.012			2.07		0.134	3.08
46 Total Hexa-Furans				1.0520	10.012			8.59		0.0954	8.77
47 Total Hepta-Furans				1.0483	10.012			15.7		0.296	19.7
48 PFK1											
49 PFK2											
50 PFK3											
51 PFK4											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.02	1.23e3	1.017e3	1.22	NO	2.1707	2.1707
2 Total Hexa-Dioxins	33.56	2.75e2	1.867e2	1.28	NO	0.41053	0.41053
3 Total Hexa-Dioxins	33.83	1.281e2	8.944e2	1.43	YES	1.9300	0.00000
4 1,2,3,6,7,8-HxCDD	34.58	2.125e2	2.087e2	1.82	YES	0.33880	0.00000
5 1,2,3,7,8,9-HxCDD	34.86	2.512e2	1.690e2	1.49	YES	0.37352	0.00000



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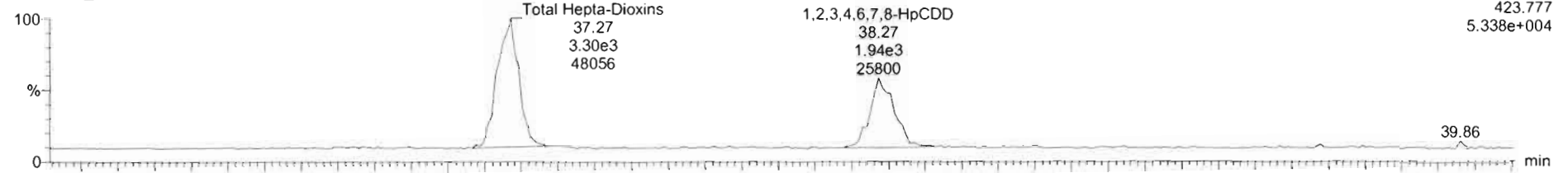
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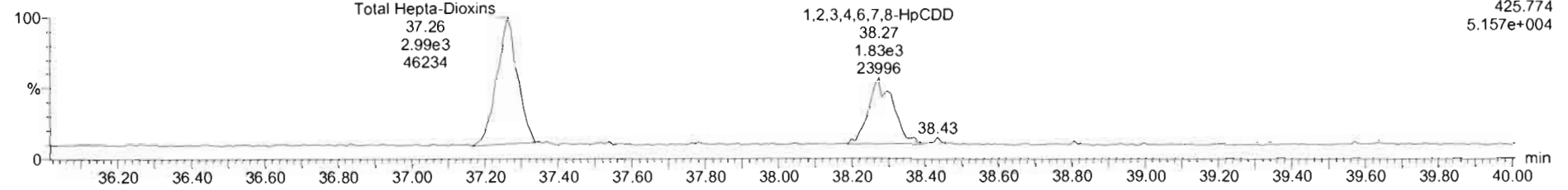
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1,2,3,4,6,7,8-HpCDD

200319R1_11

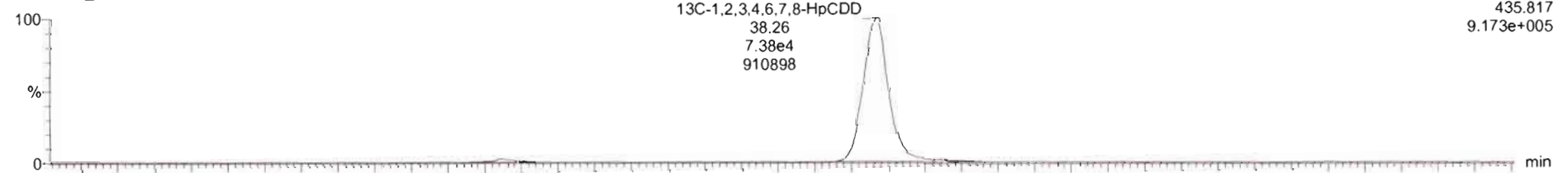


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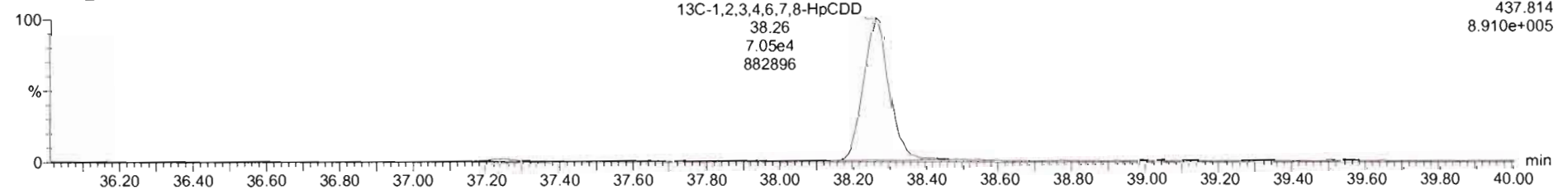


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200319R1_11



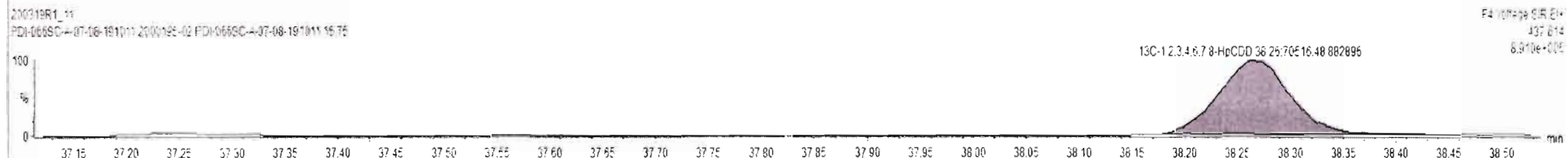
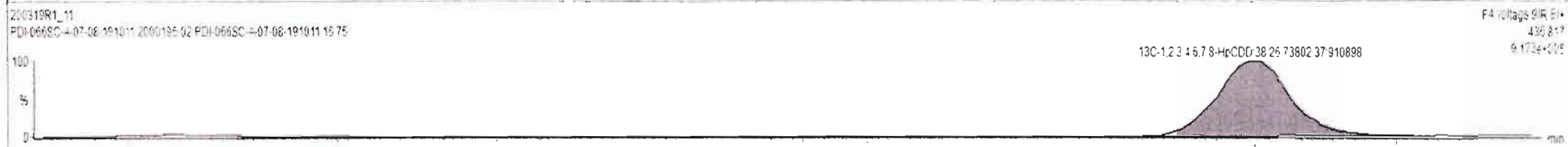
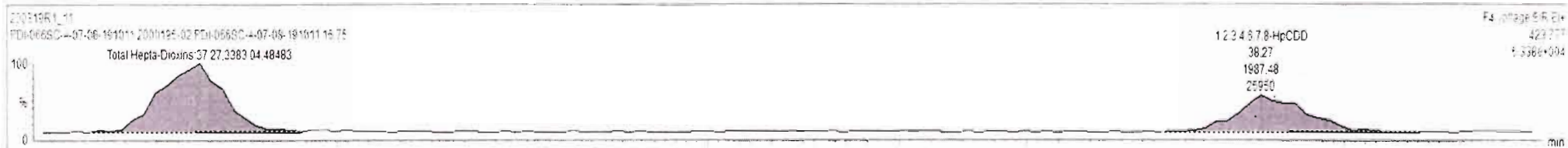
200319R1_11



200319R1_11 - 2000195-02 PDI-066SC-A-07-08-191011 16.75 - PDI-066SC-A-07-08-191011

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5835	10.012			0.549		0.139	1.33
40 Total Penta-Dioxins				0.5212	10.012			0.643		0.0506	0.820
41 Total Hexa-Dioxins				0.9244	10.012			2.58		0.157	5.24
27 Total Hepta-Dioxins				1.0861	10.012			14.7		0.347	14.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.27	2.383e3	3.107e3	1.09	NO	8.5253	8.9293
2 1,2,3,4,6,7,8-HpCDD	38.27	1.987e3	1.662e3	1.07	NO	5.2957	5.2957

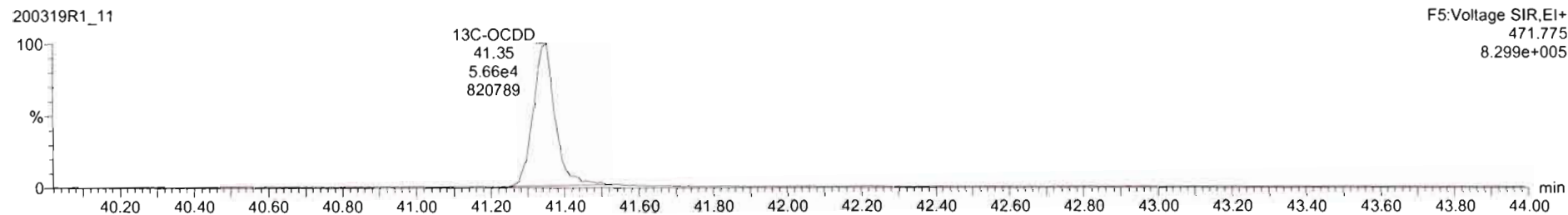
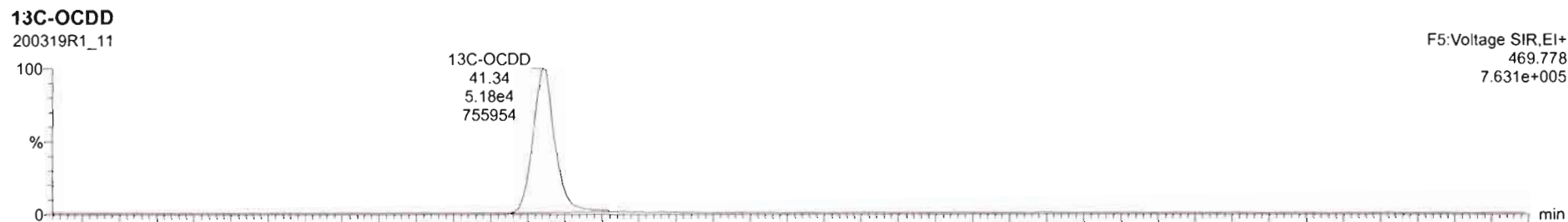
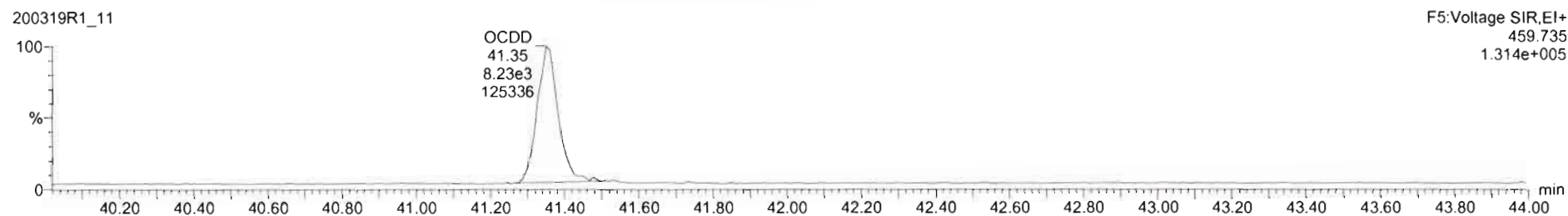


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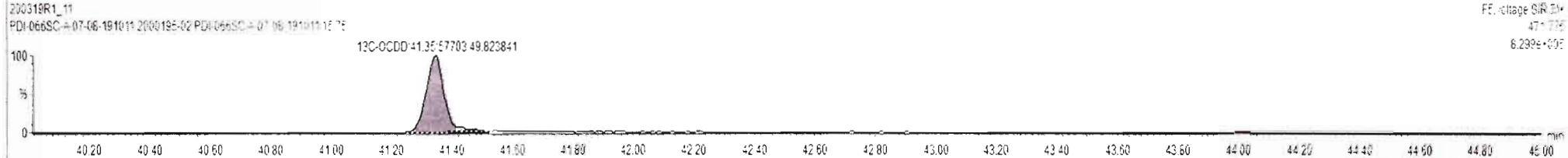
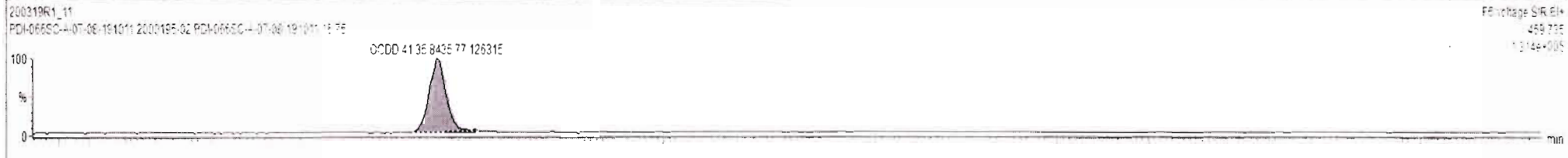
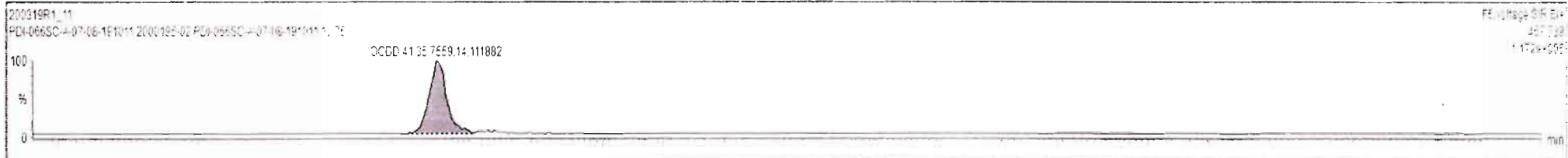
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200319R1_11 - 2000195-02 PDI-066SC-A-07-08-191011 16.75 - PDI-066SC-A-07-08-191011

Name	Resp	RA	n/y	RF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	1.60e4	0.90	NO	1.0515	10.012	41.35	1.000	55.2		0.713	55.2
8 2,2,7,8-TCDF	7.61e2	0.56	YES	0.9154	10.012	24.79	1.002	0.257		0.219	0.217
9 1,2,7,8-PeCDF			NO	0.9594	10.012			0.136			
10 2,2,4,7-PeCDF	1.35e3	1.80	YES	1.0014	10.012	30.77	1.004	0.702		0.178	0.169

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



Dataset: Untitled

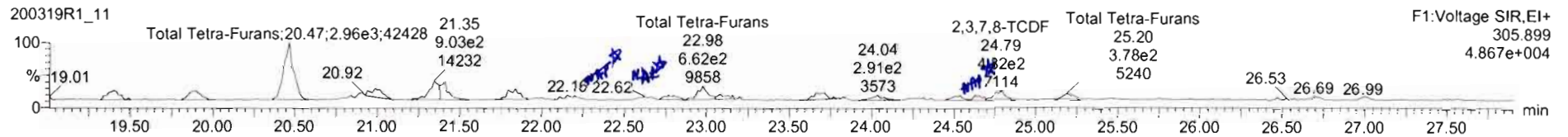
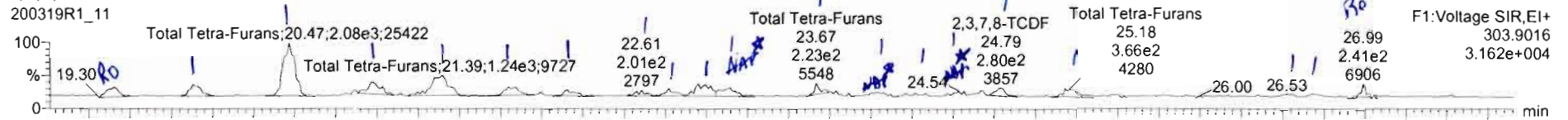
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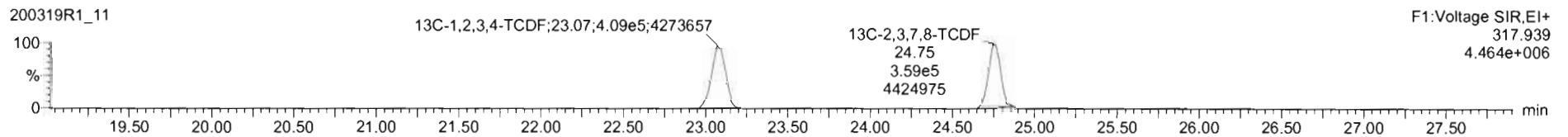
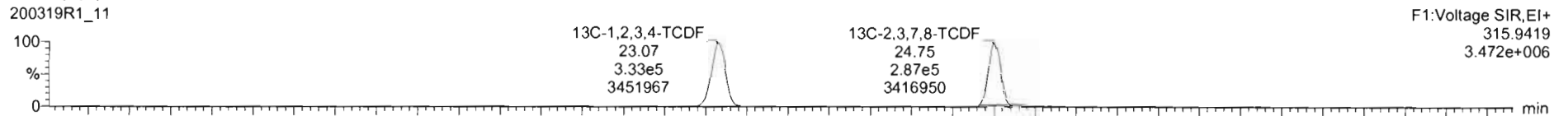
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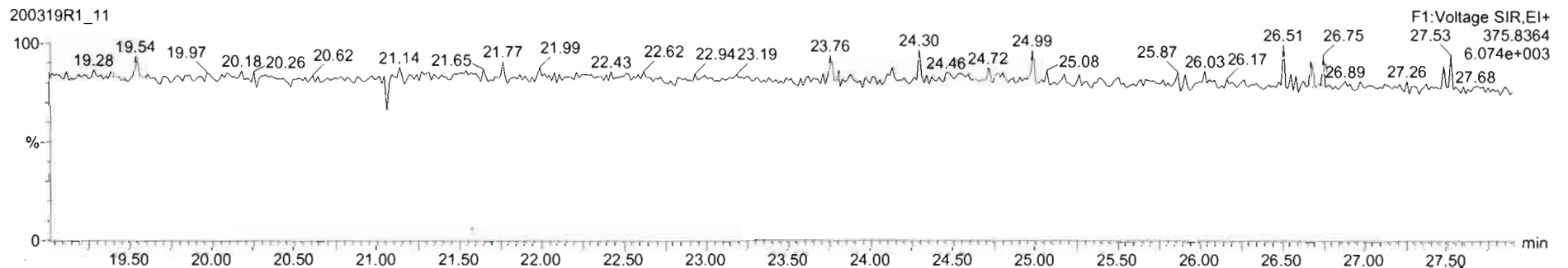
2,3,7,8-TCDF



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



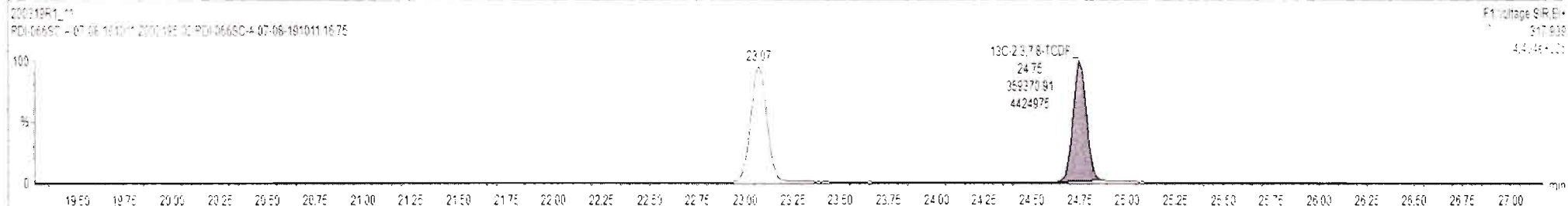
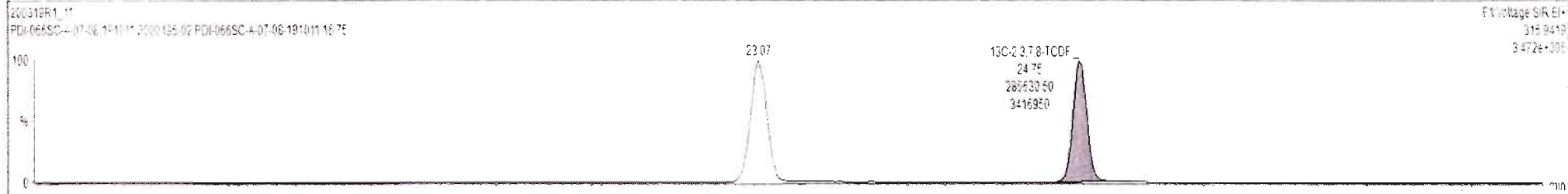
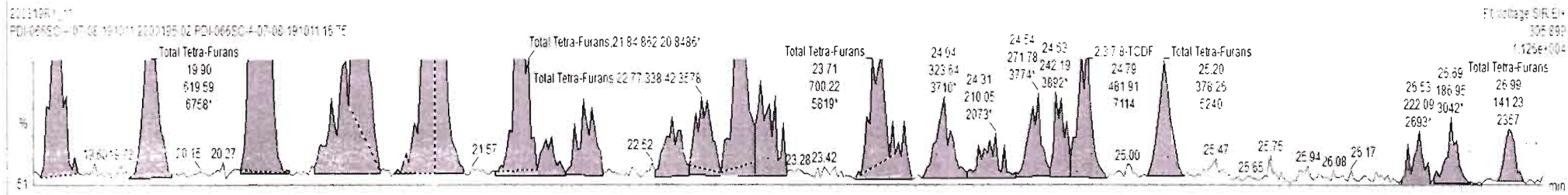
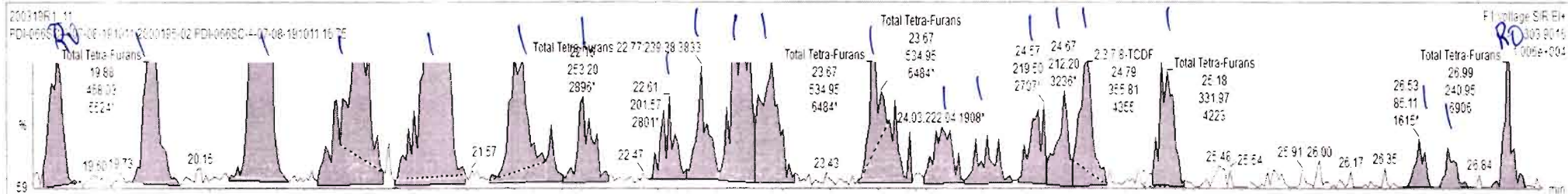
DPE1



200319R1_11 - 2000195-02 PDI-066SC-A-07-08-191011 16.75 - PDI-066SC-A-07-08-191011

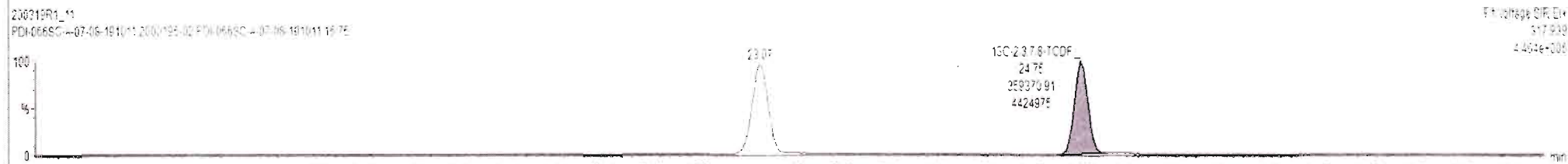
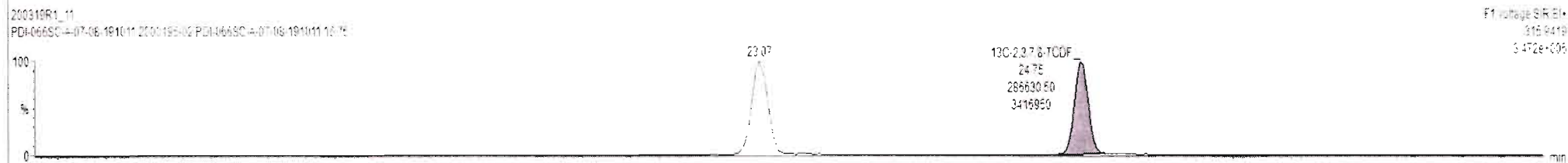
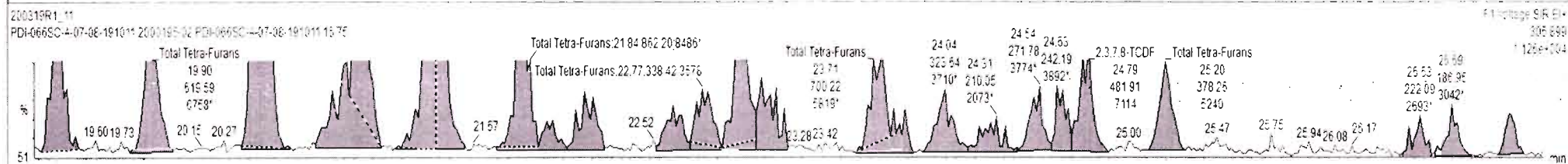
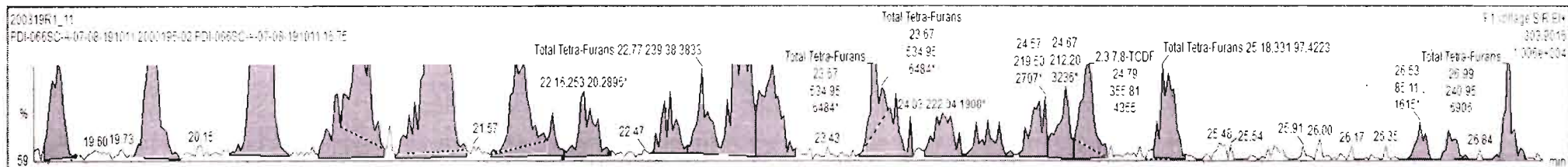
SI	Name	Resc	RA	nly	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.9154	10.012			5.72		0.219	6.07

SI	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Core
1	Total Tetra-Furans	19.40	2.447e2	6.003e2	0.57	YES	0.26768	0.00300
2	Total Tetra-Furans	19.86	4.476e2	5.807e2	0.77	NO	0.34739	0.04739
3	Total Tetra-Furans	20.47	2.081e3	2.994e3	0.70	NO	1.7145	1.7145
4	Total Tetra-Furans	20.96	9.143e2	1.265e3	0.72	NO	0.73937	0.73937
5	Total Tetra-Furans	21.40	1.255e3	1.624e3	0.77	NO	0.57240	0.57240
6	Total Tetra-Furans	21.80	4.989e2	6.910e2	0.72	NO	0.40191	0.40191
7	Total Tetra-Furans	22.77	2.394e2	3.384e2	0.71	NO	0.19518	0.19518



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6154	10.012			5.72		0.219	6.07

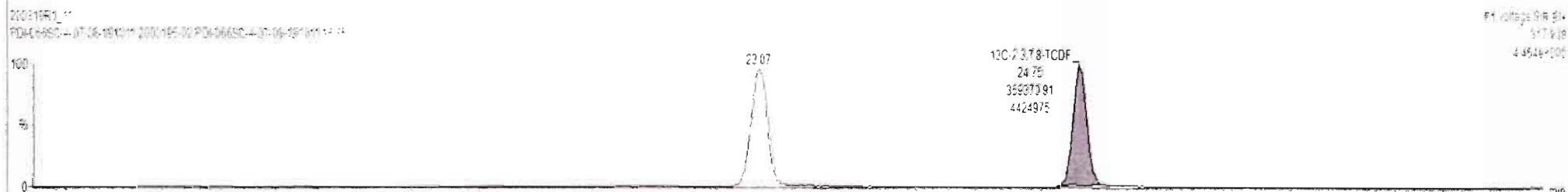
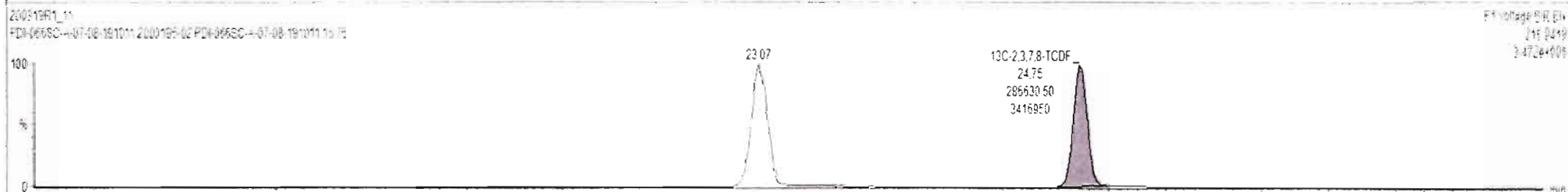
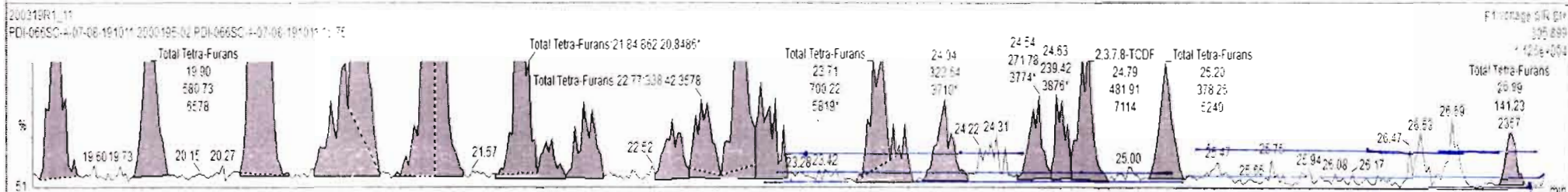
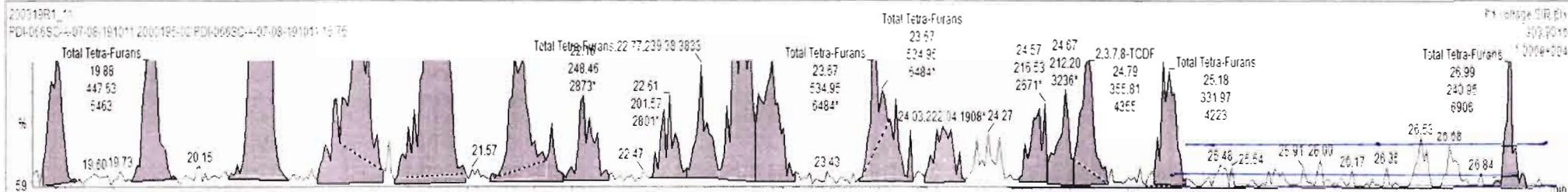
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	19.40	3.447e2	6.003e2	0.57	YES	0.28766	0.00000
2 Total Tetra-Furans	19.38	4.476e2	5.007e2	0.77	NO	0.34739	0.34739
3 Total Tetra-Furans	20.47	2.081e2	2.964e2	0.70	NO	1.7145	1.7145
4 Total Tetra-Furans	20.36	5.145e2	1.255e3	0.72	NO	0.73637	0.73637
5 Total Tetra-Furans	21.40	1.259e2	1.624e2	0.77	NO	0.97340	0.97340
6 Total Tetra-Furane	21.80	4.988e2	6.810e2	0.72	NO	0.40191	0.40191
7 Total Tetra-Furans	22.77	2.394e2	3.384e2	0.71	NO	0.19518	0.19518
8 Total Tetra-Furans	22.96	6.323e2	7.636e2	0.83	NO	0.47162	0.47162
9 Total Tetra-Furans	23.67	4.681e2	5.943e2	0.79	NO	0.35888	0.35888
10 2,3,7,8-TCDF	24.75	3.655e2	4.819e2	0.74	NO	0.23299	0.23299
11 Total Tetra-Furans	25.18	3.320e2	3.763e2	0.88	NO	0.23992	0.23992
12 Total Tetra-Furans	26.99	2.410e2	1.412e2	1.71	YES	0.084444	0.00000



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Name	Resp	RA	n/y	RBF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.9154	10.012		5.72		0.219	6.07

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc	
1	Total Tetra-Furans	19.40	3.447e2	6.003e2	0.57	YES	0.26766	0.60200
2	Total Tetra-Furans	19.88	4.476e2	5.807e2	0.77	NO	0.34739	0.34735
3	Total Tetra-Furans	20.47	2.081e3	2.954e2	0.70	NO	1.7145	1.7145
4	Total Tetra-Furans	20.98	9.149e2	1.265e2	0.72	NO	0.73637	0.73637
5	Total Tetra-Furans	21.40	1.259e3	1.624e2	0.77	NO	0.67340	0.67340
6	Total Tetra-Furans	21.80	4.988e2	6.910e2	0.72	NO	0.40191	0.40191
7	Total Tetra-Furans	22.77	2.394e2	3.384e2	0.71	NO	0.19510	0.19510



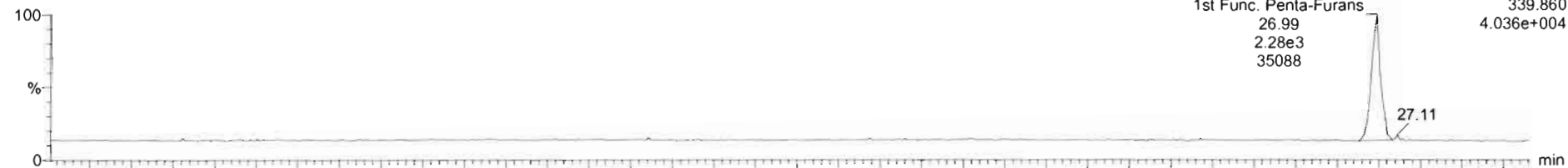
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

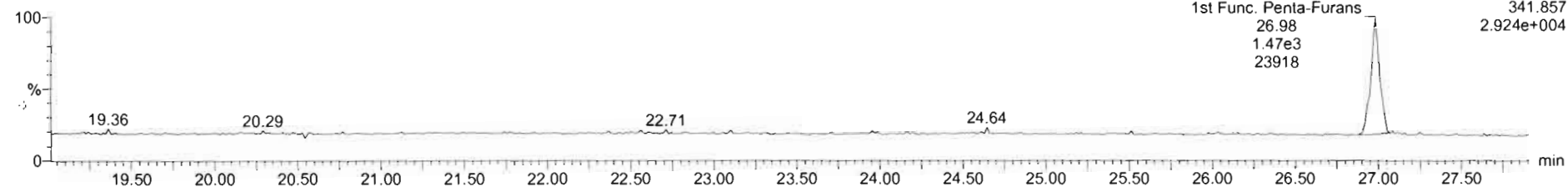
Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

1st Func. Penta-Furans

200319R1_11

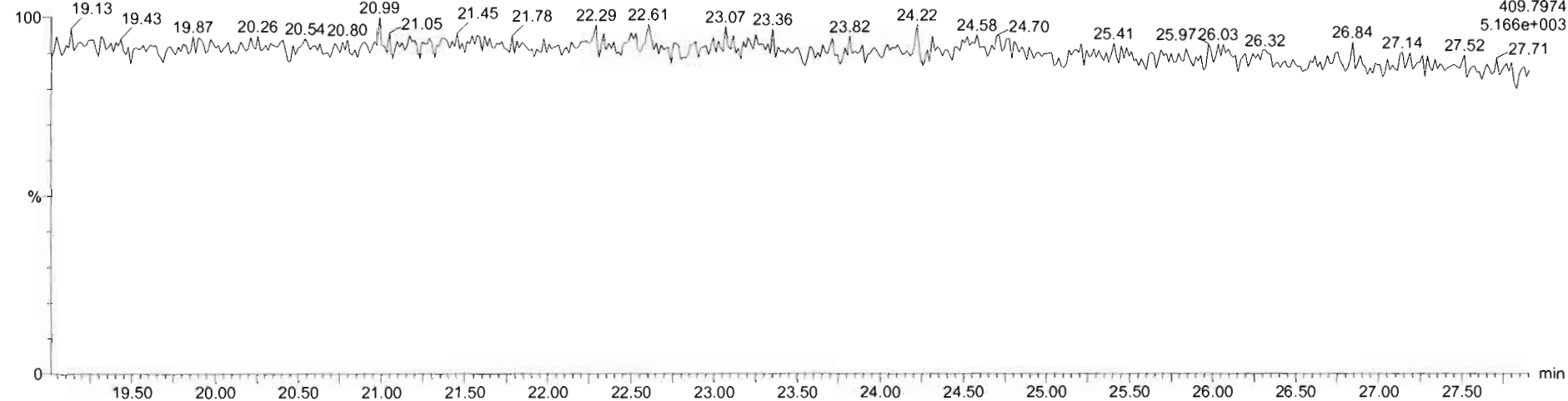


200319R1_11



DPE6

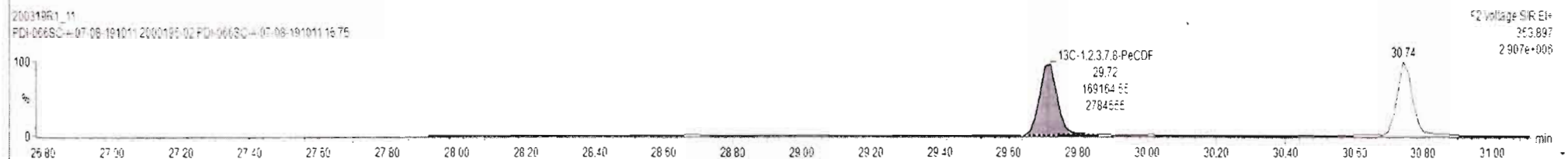
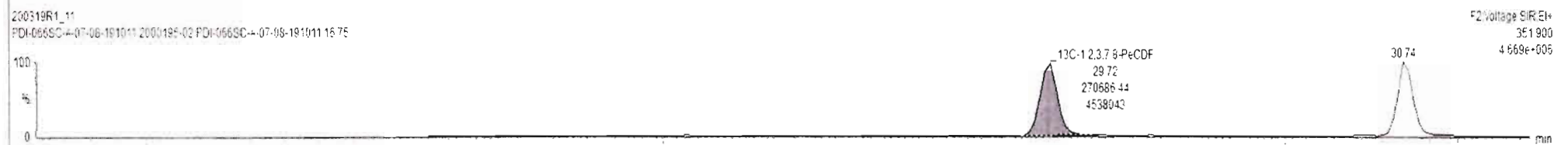
200319R1_11



200319R1_11 - 2000195-02 PDI-066SC-A-07-08-191011 16.75 - PDI-066SC-A-07-08-191011

Name	Resp	RA	n/y	RFI	wt/vol	RT	RRT	Conc.	%Rec	DL	EUPC
43 Total Tetra-Furans				0.9154	10.012			5.72		0.219	6.07
44 1st Func. Penta-Furans				0.9594	10.012			1.92		0.0475	1.92
45 Total Penta-Furans				0.9594	10.012			2.03		0.134	3.03
46 Total Hexa-Furans				1.027	10.012			0.96		0.1042	3.20

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1st Func Penta-Furans	26.95	2.210e2	1.497e2	1.54	NO	1.9224	1.9224



Ready

200319R1_11

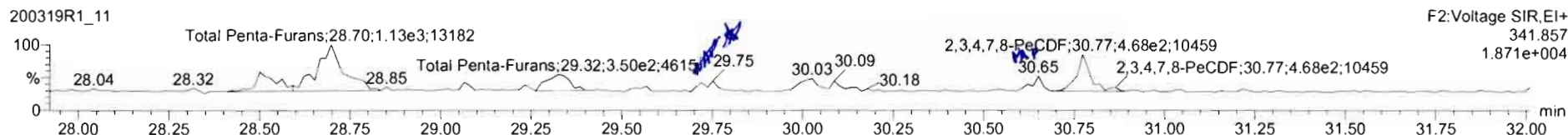
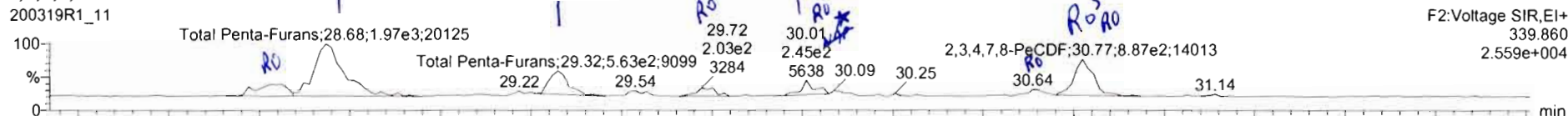
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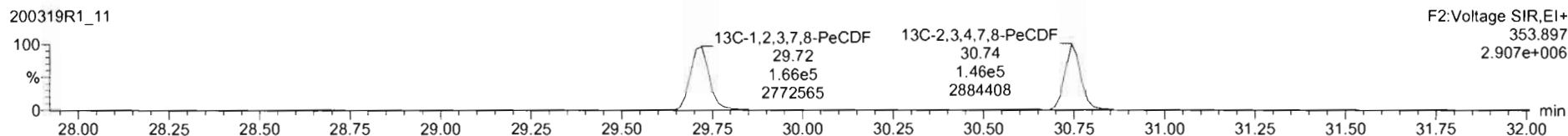
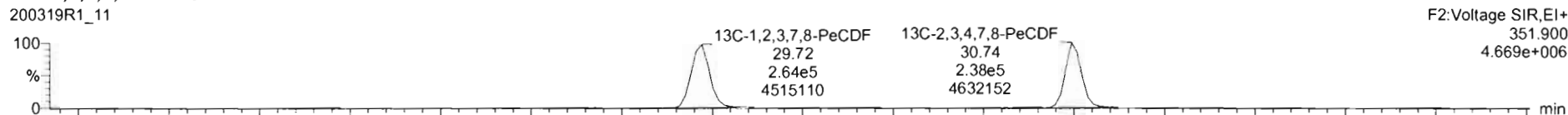
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Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

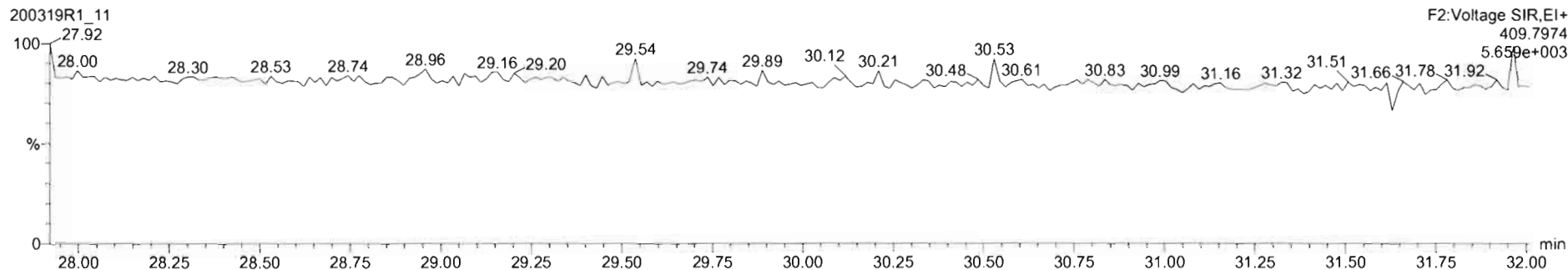
1,2,3,7,8-PeCDF



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

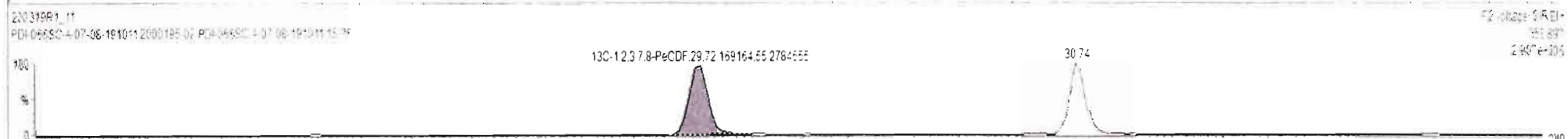
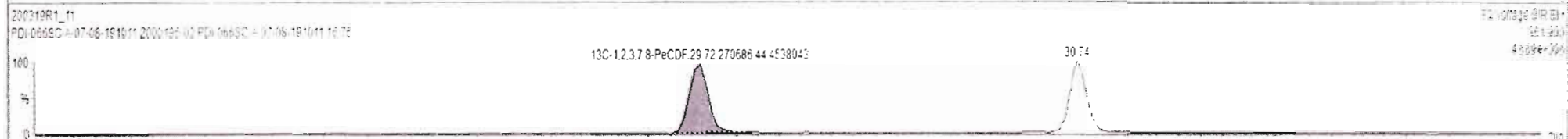
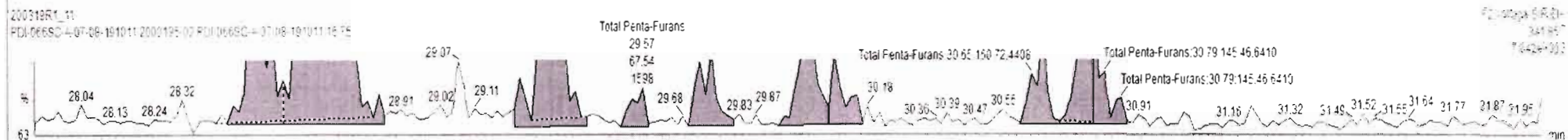
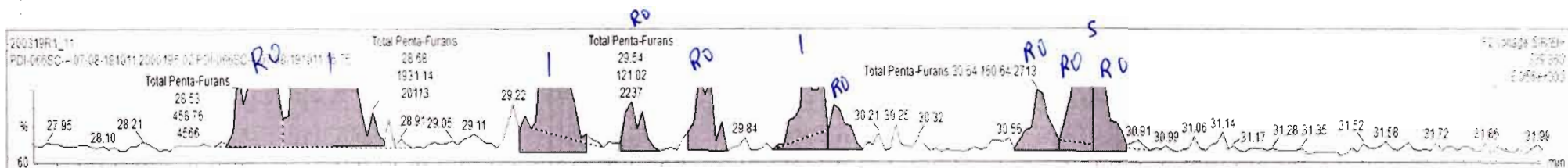


DPE2



ID	Name	Resp	RA	n/y	RF	wt/wbl	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9594	10.012			2.44		0.134	3.92
46	Total Hexa-Furans				1.0520	10.012			8.99		0.0954	8.77

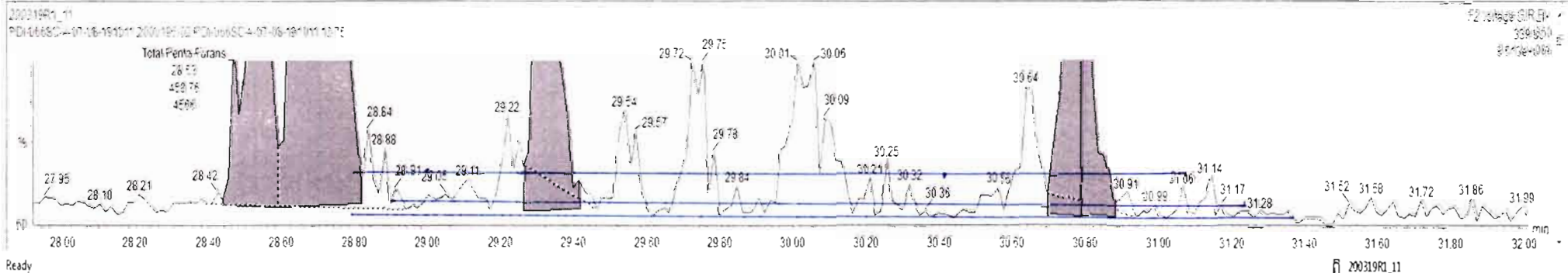
ID	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Penta-Furans	26.53	4.568e2	3.604e2	1.25	YES	0.38137	0.00000
2	Total Penta-Furans	26.96	1.921e3	1.205e3	1.60	NO	1.5649	1.5649
3	Total Penta-Furans	28.32	7.044e2	4.553e2	1.55	NO	0.58700	0.58700
4	Total Penta-Furans	28.54	1.210e2	5.754e1	1.79	YES	0.067024	0.00000
5	1,2,3,7,8-PeCDF	29.72	1.903e2	1.648e2	1.18	YES	0.14862	0.00000
6	Total Penta-Furans	30.01	3.115e2	2.258e2	1.38	NO	0.27152	0.27152
7	Total Penta-Furans	30.06	1.043e2	1.203e2	0.87	YES	0.027052	0.00000
8	Total Penta-Furans	30.64	1.806e2	1.607e2	1.00	YES	0.13355	0.00000
9	2,3,4,7,8-PeCDF	30.77	6.656e2	3.750e2	1.79	YES	0.44780	0.00000
10	Total Penta-Furans	30.79	2.259e2	1.455e2	2.24	YES	0.18744	0.00000



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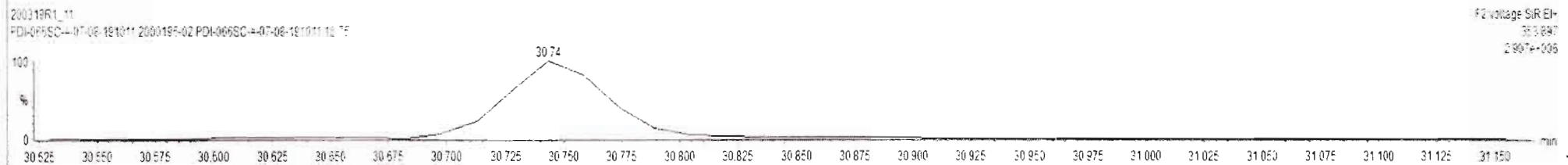
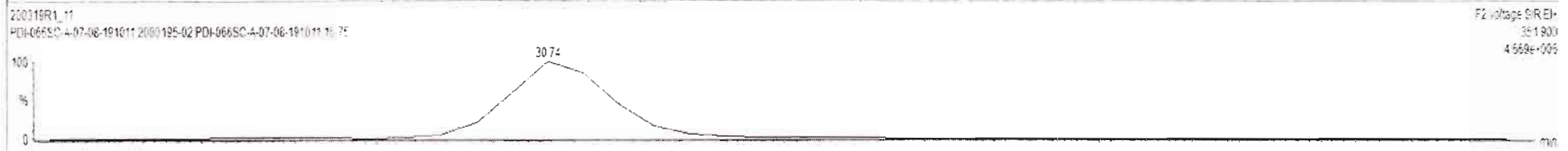
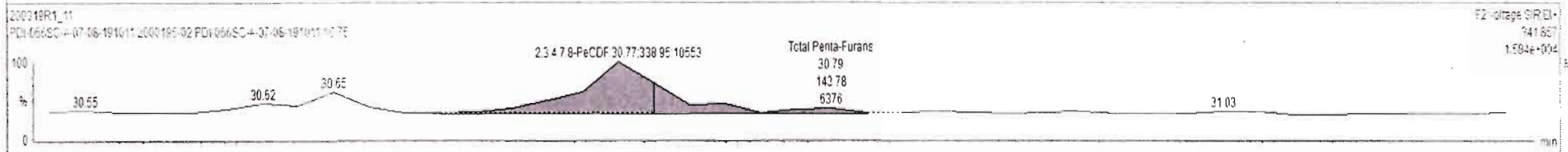
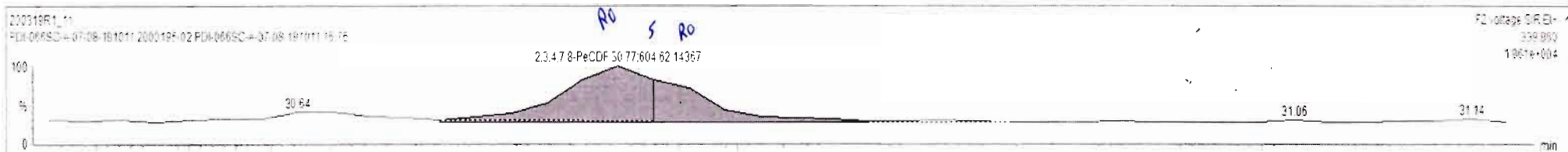
Name	Reso	RA	n/y	RRF	w/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.012			6.90		0.219	7.35
44 1s:Furc Penta-Furans				0.9594	10.012			1.92		0.0475	1.52
45 Total Penta-Furans				0.9594	10.012			2.07		0.134	3.08
46 Total Hexa-Furans				1.0920	10.012			6.59		0.0954	8.77
47 Total Hepta-Furans				1.0483	10.012			19.7		0.256	19.7
48 P<41											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.53	4.589e2	3.684e2	1.25	YES	0.38127	0.00000
2 Total Penta-Furans	28.68	1.892e2	1.183e3	1.60	NO	1.5542	1.5542
3 Total Penta-Furans	29.32	2.415e2	3.782e2	1.71	NO	0.51429	0.51429
4 2,3,4,7,8-PeCDF	30.77	8.049e2	3.399e2	1.78	YES	0.44783	0.00000
5 Total Penta-Furans	30.79	3.235e2	1.418e2	2.25	YES	0.15526	0.00000



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	Dt	EMPC
45 Total Penta-Furans				0.9594	10.012			2.07		0.134	3.08
46 Total Hexa-Furans				1.0520	10.012			6.29		0.0954	8.23
47 Total Hepta-Furans				1.0461	10.012			15.2		0.256	19.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.53	4.588e2	2.684e2	1.25	YES	0.36127	0.00000
2 Total Penta-Furans	28.68	1.692e1	1.163e1	1.26	NO	1.5542	1.5542
3 Total Penta-Furans	29.32	6.415e2	3.762e2	1.71	NO	0.51429	0.51429
4 2,3,4,7,8-PeCDF	30.77	6.046e2	3.390e2	1.78	YES	0.44780	0.00000
5 Total Penta-Furans	30.79	2.279e2	1.438e2	2.25	YES	0.18528	0.00000



Dataset: Untitled

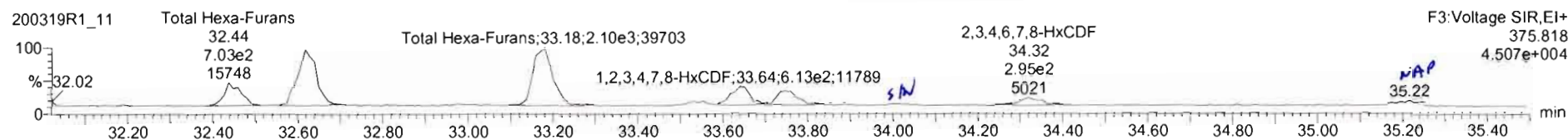
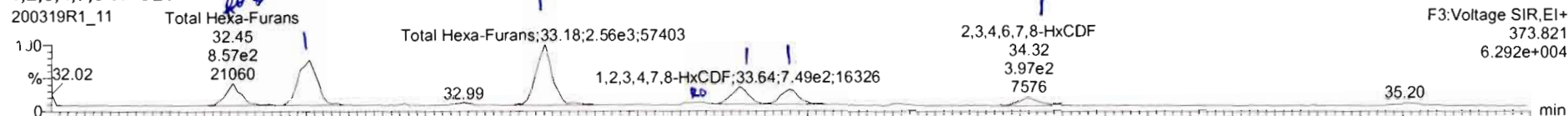
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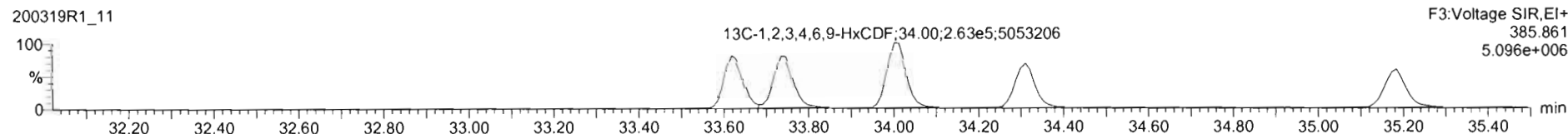
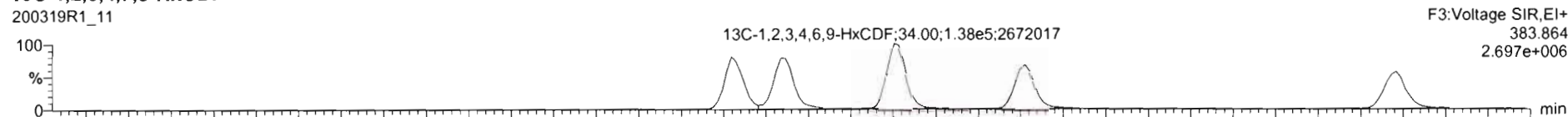
dy 03-25-2020

Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

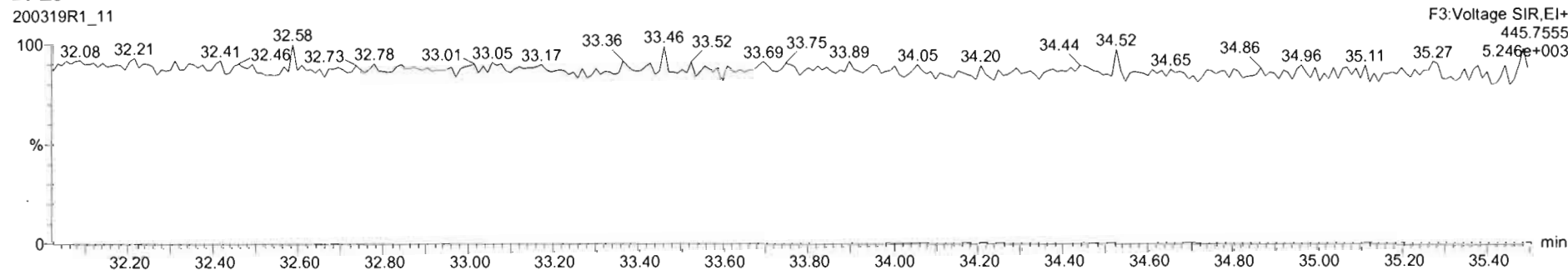
1,2,3,4,7,8-HxCDF



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

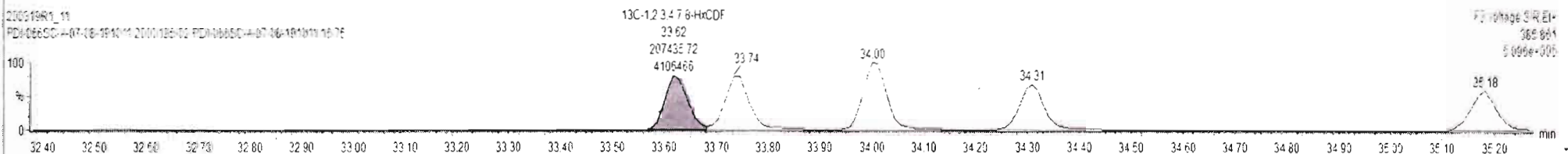
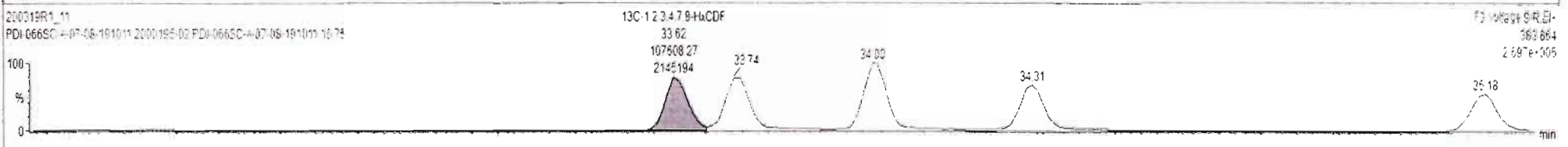
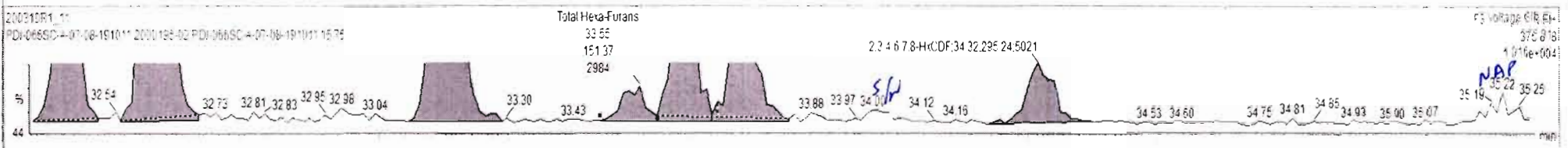
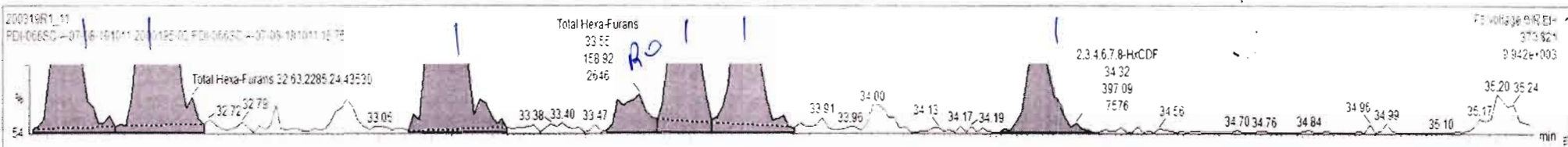


DPE3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.012			5.72		0.219	8.07
44 1st Func. Penta-Furans				0.9594	10.012			1.92		0.0475	1.92
45 Total Penta-Furans				0.9594	10.012			2.07		0.134	3.02
46 Total Hexa-Furans				1.0920	10.012			8.59		0.0954	8.77
47 Total Hepta-Furans				1.0483	10.012			19.2		0.256	19.2

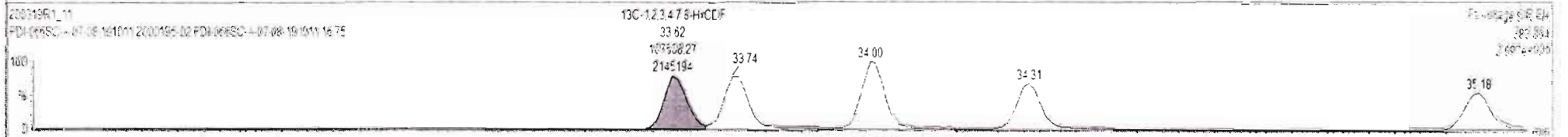
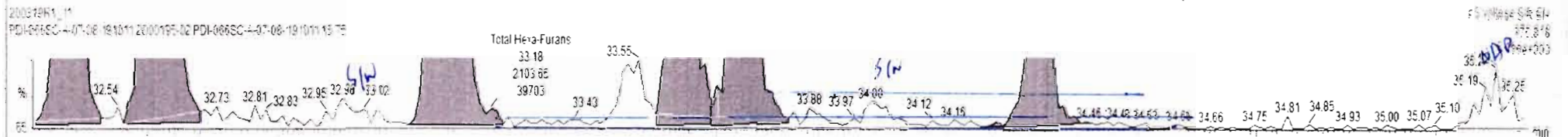
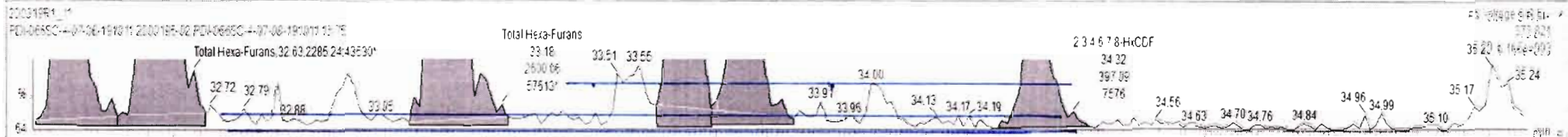
Name	RT	mI Resp	mZ Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.45	9.021e2	7.286e2	1.24	NO	0.9961	0.9961
2 Total Hexa-Furans	32.83	2.285e3	1.922e3	1.18	NO	2.5717	2.5717
3 Total Hexa-Furans	33.16	2.670e2	2.184e2	1.24	NO	2.8683	2.8683
4 Total Hexa-Furans	33.55	1.589e2	1.514e2	1.05	YES	0.17505	0.00300
5 1,2,3,4,7,8-HxCDF	33.84	8.363e2	6.450e2	1.30	NO	0.90481	0.90481
6 1,2,3,6,7,8-HxCDF	33.75	7.650e2	5.931e2	1.26	NO	0.79691	0.79691
7 2,3,4,6,7,8-HxCDF	34.32	3.971e2	2.952e2	1.34	NO	0.45317	0.45317



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Name	Resp	RA	n/y	RRF	retVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9194	10.012			5.72		0.219	6.07
44 1st Func. Penta-Furans				0.9594	10.012			1.92		0.0475	1.92
45 Total Penta-Furans				0.9594	10.012			2.07		0.134	3.08
46 Total Hexa-Furans				1.0920	10.012			6.29		0.0954	8.28
47 Total Hepta-Furans				1.0483	10.012			15.3		0.296	16.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	8.598e2	7.026e2	1.22	NO	0.91095	0.91095
2 Total Hexa-Furans	32.83	2.198e2	1.894e2	1.16	NO	2.4949	2.4949
3 Total Hexa-Furans	33.16	2.555e2	2.104e2	1.21	NO	2.8410	2.8410
4 1,2,3,4,7,8-HxCDF	33.64	7.491e2	6.126e2	1.22	NO	0.82189	0.82189
5 1,2,3,6,7,8-HxCDF	33.76	6.827e2	5.410e2	1.26	NO	0.71961	0.71961
6 2,3,4,6,7,8-HxCDF	34.32	3.971e2	2.852e2	1.34	NO	0.45317	0.45317



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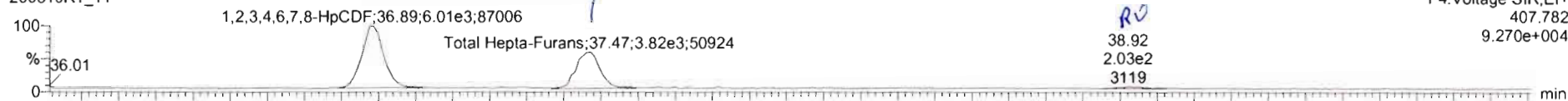
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

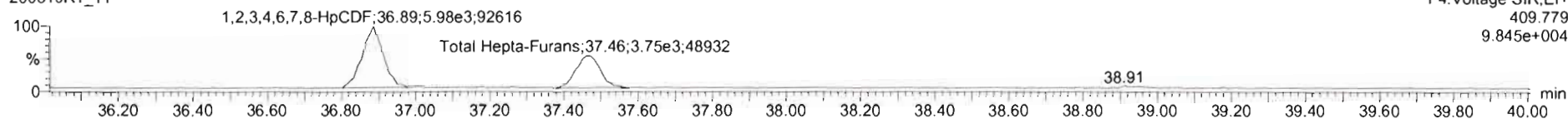
Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

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

200319R1_11

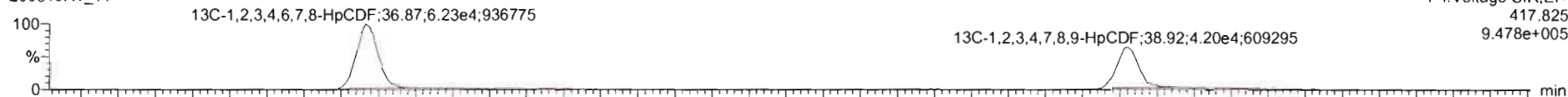


200319R1_11

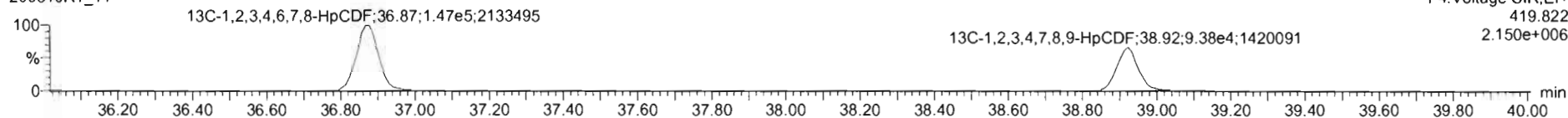


13C-1,2,3,4,6,7,8-HpCDF

200319R1_11

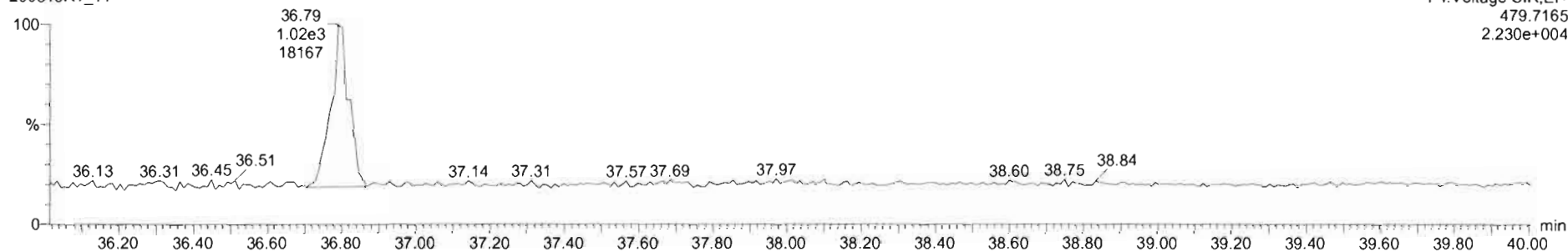


200319R1_11



DPE4

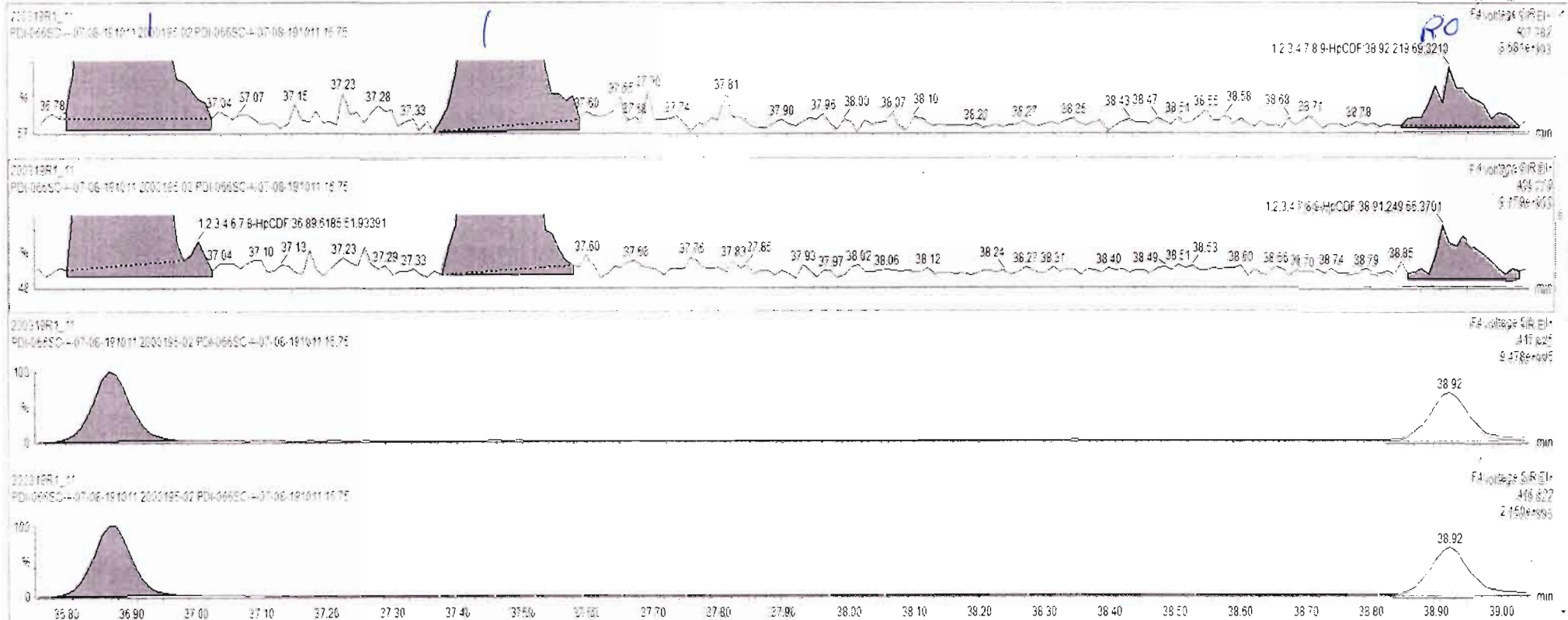
200319R1_11



200319R1_11 - 2000195-02 PDI-066SC-A-07-08-191011 16.75 - PDI-066SC-A-07-08-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.012			2.44		0.134	3.92
46 Total Hexa-Furans				1.0520	10.012			8.59		0.0954	8.77

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1.2.3.4.6.7.8-HpCDF	36.89	6.146e2	5.188e2	0.99	NO	11.236	11.236
2 Total Hepta-Furans	37.47	3.887e2	3.806e2	1.22	NO	8.5018	8.5018
3 1.2.3.4.7.8.9-HpCDF	38.92	2.197e2	2.456e2	0.76	YES	0.52408	0.00000



Ready

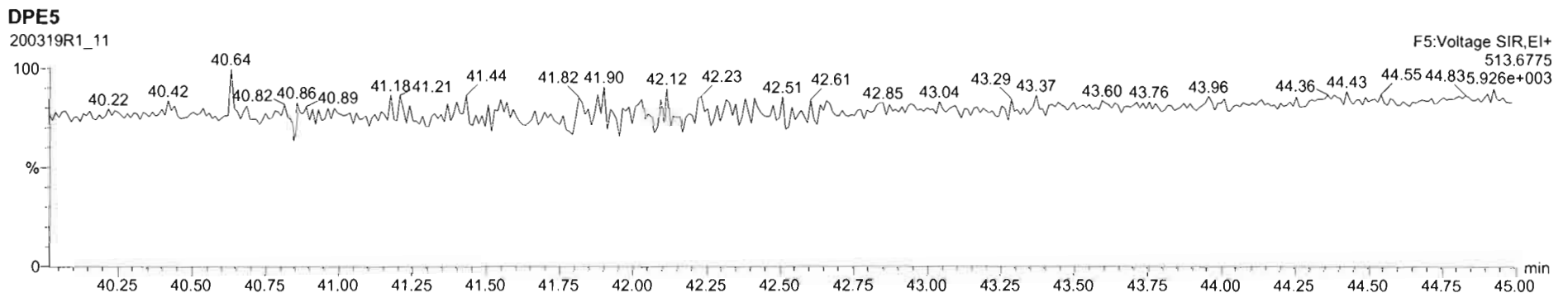
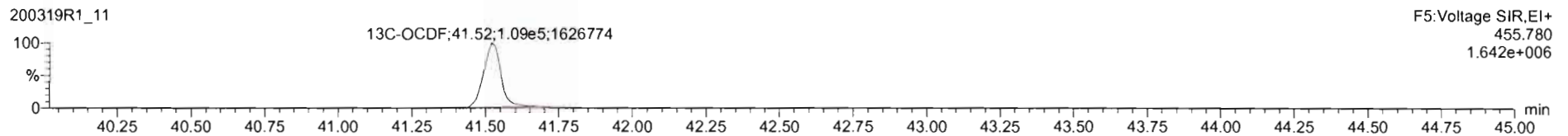
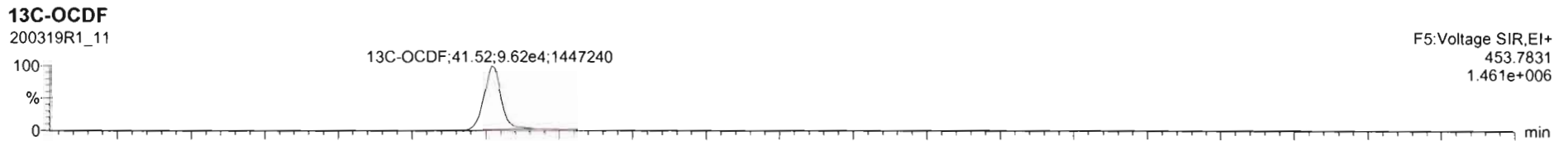
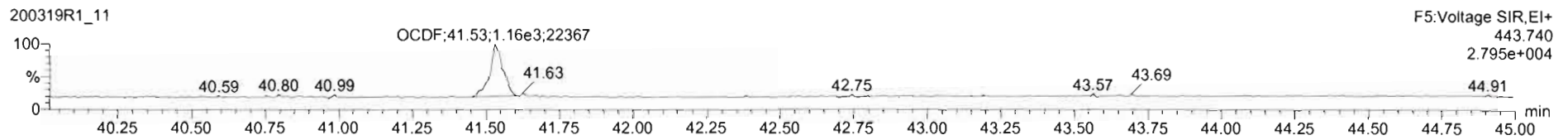
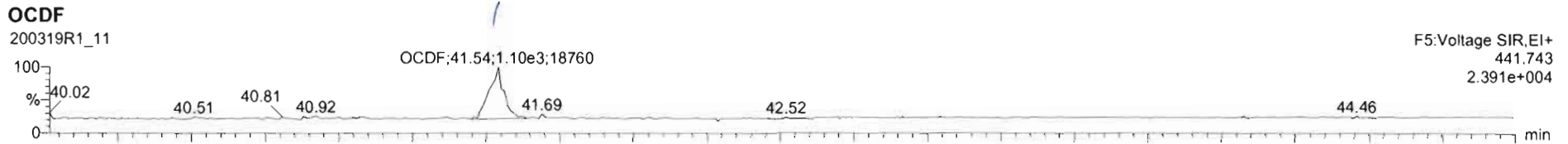
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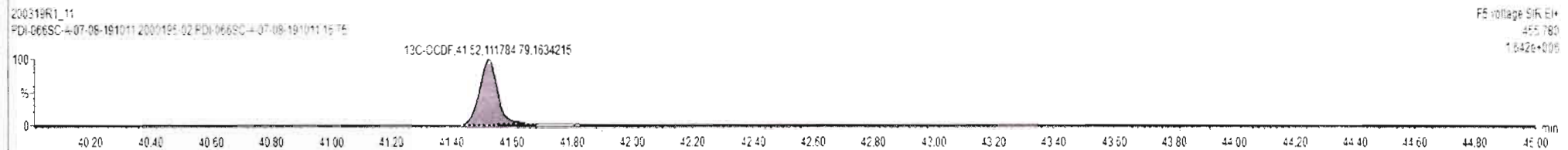
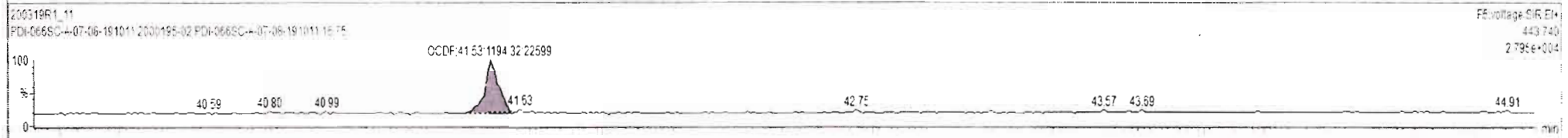
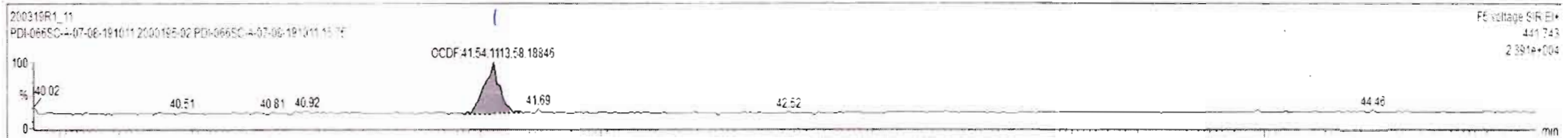
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Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	2.31e3	0.93	NO	0.9468	10.012	41.54	1.001	4.63	0.361	4.63
18	13C-2,3,7,8- ¹³ CDD	4.05e5	0.80	NO	1.1342	10.012	26.75	1.029	173	86.7	0.390
19	13C-1,2,3,7,8-PeCDD	2.47e5	0.83	NO	0.8644	10.012	21.06	1.241	145	72.4	0.322
20	13C-1,2,3,4,7,8-HxCDD	1.93e5	1.31	NO	0.7535	10.012	24.46	1.014	127	63.7	0.217
21	13C-1,2,3,6,7,8-HxCDD	2.30e5	1.25	NO	0.8254	10.012	24.58	1.017	124	62.1	0.255

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



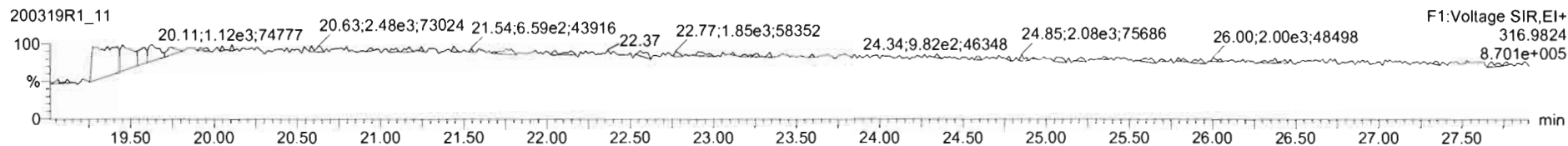
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

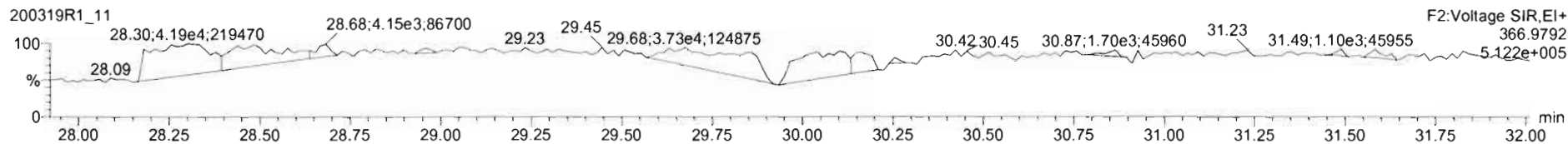
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_11, Date: 20-Mar-2020, Time: 00:16:22, ID: 2000195-02 PDI-066SC-A-07-08-191011 16.75, Description: PDI-066SC-A-07-08-191011

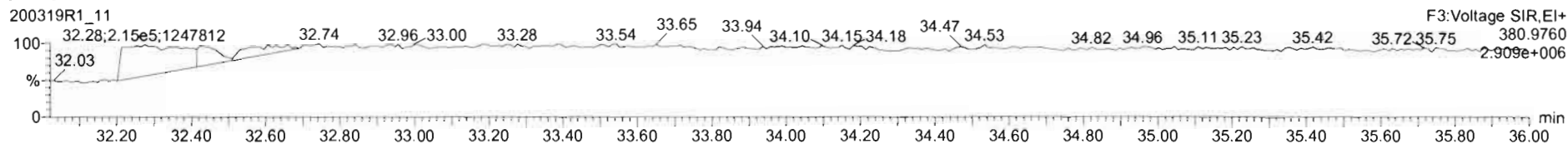
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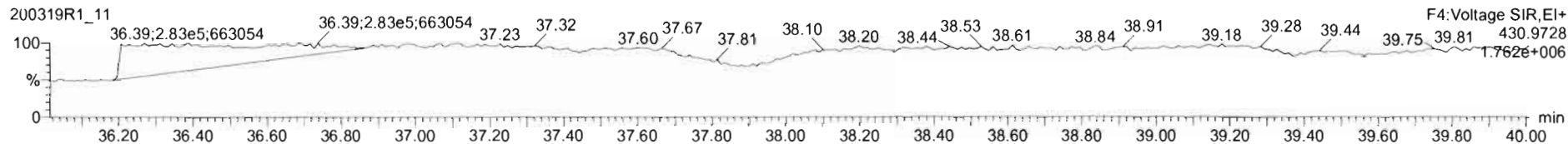
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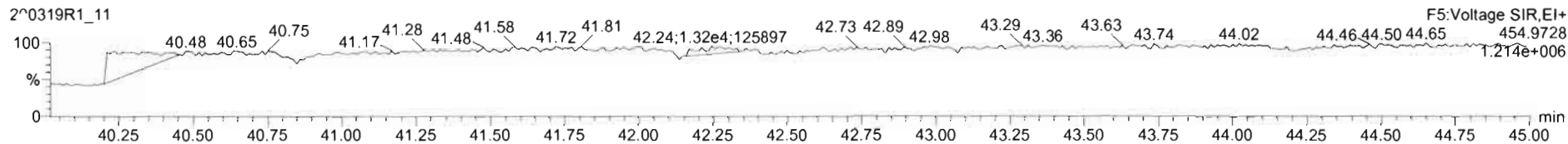
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200319R1\200319R1-12c.qld

Last Altered: Monday, March 30, 2020 10:24:33 AM Pacific Daylight Time

Printed: Monday, March 30, 2020 10:29:54 AM Pacific Daylight Time

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dy 03/31/2020

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

C7 03/01/2020

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

#	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						31.071	31.08	1.001	1.001	0.093549		0.117	
2	2 1,2,3,7,8-PeCDD	1.36e2	1.26	YES	0.921	10.007	31.071	31.08	1.001	1.001	0.093549		0.134	0.0676
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.007	34.469		1.000				0.0749	
4	4 1,2,3,6,7,8-HxCDD			NO	0.984	10.007	34.555		1.000				0.0779	
5	5 1,2,3,7,8,9-HxCDD			NO	0.967	10.007	34.831		1.000				0.0815	
6	6 1,2,3,4,6,7,8-HpCDD	1.25e3	1.05	NO	1.01	10.007	38.262	38.25	1.000	1.000	1.0273		0.138	1.03
7	7 OCDD	6.22e3	0.85	NO	1.05	10.007	41.329	41.34	1.000	1.000	6.5157		0.169	6.52
8	8 2,3,7,8-TCDF	7.28e2	0.84	NO	0.915	10.007	24.732	24.73	1.000	1.000	6.20909		0.122	0.209
9	9 1,2,3,7,8-PeCDF	2.32e2	1.00	YES	0.959	10.007	29.712	29.71	1.001	1.000	0.089296		0.0685	0.0734
10	10 2,3,4,7,8-PeCDF	3.82e2	1.06	YES	1.00	10.007	30.759	30.73	1.001	1.000	0.15326		0.0640	0.130
11	11 1,2,3,4,7,8-HxCDF			NO	1.04	10.007	33.607		1.000				0.0656	
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.007	33.734		1.000				0.0679	
13	13 2,3,4,6,7,8-HxCDF			NO	1.09	10.007	34.333		1.001				0.0689	
14	14 1,2,3,7,8,9-HxCDF			NO	1.03	10.007	35.162		1.000				0.0889	
15	15 1,2,3,4,6,7,8-HpCDF			NO	1.05	10.007	36.893		1.001				0.0735	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.21	10.007	38.901		1.000				0.0930	
17	17 OCDF			NO	0.947	10.007	41.510		1.000				0.102	
18	18 13C-2,3,7,8-TCDD	4.91e5	0.83	NO	1.18	10.007	25.720	25.74	1.029	1.029	193.18	96.7	0.303	
19	19 13C-1,2,3,7,8-PeCDD	3.15e5	0.65	NO	0.864	10.007	30.900	31.05	1.236	1.242	169.54	84.8	0.324	
20	20 13C-1,2,3,4,7,8-HxCDD	2.71e5	1.29	NO	0.754	10.007	34.463	34.46	1.014	1.014	163.37	81.7	0.277	
21	21 13C-1,2,3,6,7,8-HxCDD	3.12e5	1.30	NO	0.925	10.007	34.572	34.56	1.017	1.017	153.30	76.7	0.225	
22	22 13C-1,2,3,7,8,9-HxCDD	3.02e5	1.26	NO	0.829	10.007	34.834	34.82	1.025	1.024	165.28	82.7	0.251	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.43e5	1.07	NO	0.598	10.007	38.294	38.25	1.127	1.125	184.39	92.3	0.515	
24	24 13C-OCDD	3.63e5	0.96	NO	0.571	10.007	41.445	41.33	1.219	1.216	289.00	72.3	0.386	
25	25 13C-2,3,7,8-TCDF	7.60e5	0.79	NO	1.09	10.007	24.742	24.73	0.990	0.989	175.91	88.0	0.441	
26	26 13C-1,2,3,7,8-PeCDF	5.42e5	1.61	NO	0.876	10.007	29.572	29.69	1.183	1.188	155.71	77.9	0.525	
27	27 13C-2,3,4,7,8-PeCDF	4.96e5	1.63	NO	0.844	10.007	30.582	30.73	1.223	1.229	148.26	74.2	0.546	
28	28 13C-1,2,3,4,7,8-HxCDF	4.18e5	0.52	NO	1.00	10.007	33.610	33.61	0.989	0.989	189.84	95.0	0.457	
29	29 13C-1,2,3,6,7,8-HxCDF	4.41e5	0.51	NO	1.12	10.007	33.719	33.72	0.992	0.992	179.32	89.7	0.409	
30	30 13C-2,3,4,6,7,8-HxCDF	4.21e5	0.51	NO	1.04	10.007	34.300	34.30	1.009	1.009	184.96	92.5	0.441	
31	31 13C-1,2,3,7,8,9-HxCDF	3.67e5	0.51	NO	0.873	10.007	35.174	35.16	1.035	1.034	191.31	95.7	0.523	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-12c.qld

Last Altered: Monday, March 30, 2020 10:24:33 AM Pacific Daylight Time

Printed: Monday, March 30, 2020 10:29:54 AM Pacific Daylight Time

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	3.22e5	0.43	NO	0.771	10.007	36.890	36.86	1.085	1.084	189.64	94.9	0.625	
33	13C-1,2,3,4,7,8,9-HpCDF	2.24e5	0.43	NO	0.519	10.007	38.977	38.90	1.147	1.144	196.09	98.1	0.928	
34	13C-OCDF	5.15e5	0.92	NO	0.696	10.007	41.625	41.51	1.225	1.221	335.91	84.0	0.488	
35	37Cl-2,3,7,8-TCDD	1.84e5			1.17	10.007	25.730	25.76	1.029	1.031	72.829 ✓	91.1	0.0665	
36	13C-1,2,3,4-TCDD	4.29e5	0.80	NO	1.00	10.007	25.050	25.00	1.000	1.000	199.86	100	0.358	
37	13C-1,2,3,4-TCDF	7.93e5	0.80	NO	1.00	10.007	23.190	23.06	1.000	1.000	199.86	100	0.480	
38	13C-1,2,3,4,6,9-HxCDF	4.40e5	0.53	NO	1.00	10.007	33.880	33.99	1.000	1.000	199.86	100	0.457	
39	Total Tetra-Dioxins				0.983	10.007	24.620		0.000		0.88238		0.117	1.28
40	Total Penta-Dioxins				0.921	10.007	29.960		0.000		0.46770		0.134	1.29
41	Total Hexa-Dioxins				0.984	10.007	33.635		0.000		2.1556		0.0812	2.16
42	Total Hepta-Dioxins				1.01	10.007	37.640		0.000		1.0273		0.138	1.03
43	Total Tetra-Furans				0.915	10.007	23.610		0.000		4.7349		0.122	5.55
44	1st Func. Penta-Furans				0.959	10.007	27.090		0.000		0.00000		0.0170	0.0867
45	Total Penta-Furans				0.959	10.007	29.275		0.000		0.25761		0.0678	0.599
46	Total Hexa-Furans				1.09	10.007	33.555		0.000		0.11196		0.0337	0.112
47	Total Hepta-Furans				1.05	10.007	37.835		0.000				0.0443	

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-12c.qld

Last Altered: Monday, March 30, 2020 10:24:33 AM Pacific Daylight Time
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Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.38	6.468e3	7.821e3	4.985e2	6.367e2	0.78	NO	1.135e3	0.46977	0.46977	0.117
2	Total Tetra-Dioxins	21.77	5.296e3	5.963e3	4.868e2	5.370e2	0.91	YES	0.000e0	0.00000	0.39334	0.117
3	Total Tetra-Dioxins	23.30	5.315e3	5.808e3	4.452e2	5.519e2	0.81	NO	9.971e2	0.41261	0.41261	0.117

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.74	2.819e3	3.603e3	1.890e2	2.670e2	0.71	NO	4.560e2	0.31444	0.31444	0.0632
2	Total Penta-Dioxins	29.25	3.685e3	7.139e3	1.613e2	3.412e2	0.47	YES	0.000e0	0.00000	0.28777	0.134
3	Total Penta-Dioxins	29.72	1.201e3	1.990e3	4.009e1	4.841e1	0.83	YES	0.000e0	0.00000	0.054415	0.134
4	Total Penta-Dioxins	29.80	3.115e3	4.096e3	1.119e2	1.402e2	0.80	YES	0.000e0	0.00000	0.15762	0.134
5	Total Penta-Dioxins	29.93	1.064e3	1.278e3	4.207e1	4.991e1	0.84	YES	0.000e0	0.00000	0.056108	0.134
6	Total Penta-Dioxins	30.04	3.246e3	2.743e3	1.341e2	1.096e2	1.22	YES	0.000e0	0.00000	0.12325	0.134
7	Total Penta-Dioxins	30.30	1.088e3	2.734e3	5.887e1	8.746e1	0.67	NO	1.463e2	0.10092	0.10092	0.134
8	Total Penta-Dioxins	30.64	1.531e3	9.930e2	5.885e1	6.387e1	0.92	YES	0.000e0	0.00000	0.071793	0.134
9	1,2,3,7,8-PeCDD	31.08	1.517e3	1.313e3	7.569e1	6.011e1	1.26	YES	1.358e2	0.00000	0.067570	0.134
10	Total Penta-Dioxins	31.46	9.950e2	1.373e3	2.861e1	4.729e1	0.61	NO	7.591e1	0.052347	0.052347	0.134

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.99	1.841e4	1.656e4	9.646e2	7.547e2	1.28	NO	1.719e3	1.1837	1.1837	0.0812
2	Total Hexa-Dioxins	33.54	5.671e3	5.371e3	2.905e2	2.537e2	1.14	NO	5.442e2	0.37470	0.37470	0.0812
3	Total Hexa-Dioxins	33.83	7.472e3	6.172e3	4.612e2	4.061e2	1.14	NO	8.673e2	0.59713	0.59713	0.0812

Hepta-Dioxins

	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-HpCDD	38.25	9.096e3	7.768e3	6.425e2	6.123e2	1.05	NO	1.255e3	1.0273	1.0273	0.138

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-12c.qld

Last Altered: Monday, March 30, 2020 10:24:33 AM Pacific Daylight Time

Printed: Monday, March 30, 2020 10:29:54 AM Pacific Daylight Time

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.37	6.430e3	9.246e3	4.552e2	6.444e2	0.71	NO	1.100e3	0.31571	0.31571	0.122
2	Total Tetra-Furans	19.85	2.819e3	2.863e3	1.644e2	2.879e2	0.57	YES	0.000e0	0.00000	0.10850	0.122
3	Total Tetra-Furans	20.45	2.573e4	3.325e4	2.237e3	2.754e3	0.81	NO	4.991e3	1.4330	1.4330	0.122
4	Total Tetra-Furans	20.96	7.531e3	1.116e4	8.193e2	1.162e3	0.71	NO	1.981e3	0.56881	0.56881	0.122
5	Total Tetra-Furans	21.39	6.501e3	6.666e3	8.178e2	9.854e2	0.83	NO	1.803e3	0.51771	0.51771	0.122
6	Total Tetra-Furans	21.78	3.357e3	4.460e3	2.324e2	3.497e2	0.66	NO	5.821e2	0.16713	0.16713	0.122
7	Total Tetra-Furans	21.93	1.936e3	1.924e3	1.241e2	1.160e2	1.07	YES	0.000e0	0.00000	0.058923	0.122
8	Total Tetra-Furans	22.13	3.645e3	3.646e3	2.997e2	2.585e2	1.16	YES	0.000e0	0.00000	0.13139	0.122
9	Total Tetra-Furans	22.58	2.664e3	4.939e3	1.926e2	3.096e2	0.62	YES	0.000e0	0.00000	0.12714	0.122
10	Total Tetra-Furans	22.77	2.993e3	3.548e3	2.178e2	3.170e2	0.69	NO	5.349e2	0.15357	0.15357	0.122
11	Total Tetra-Furans	22.95	5.164e3	5.002e3	3.361e2	4.654e2	0.72	NO	8.015e2	0.23011	0.23011	0.122
12	Total Tetra-Furans	23.09	4.249e3	5.151e3	4.147e2	5.672e2	0.73	NO	9.818e2	0.28188	0.28188	0.122
13	Total Tetra-Furans	23.65	7.182e3	8.554e3	5.931e2	7.707e2	0.77	NO	1.364e3	0.39156	0.39156	0.122
14	Total Tetra-Furans	24.03	2.344e3	3.570e3	1.728e2	2.711e2	0.64	YES	0.000e0	0.00000	0.11406	0.122
15	Total Tetra-Furans	24.21	1.697e3	1.806e3	9.869e1	5.910e1	1.67	YES	0.000e0	0.00000	0.030036	0.122
16	Total Tetra-Furans	24.25	1.242e3	2.251e3	6.421e1	1.302e2	0.49	YES	0.000e0	0.00000	0.042376	0.122
17	Total Tetra-Furans	24.46	3.023e3	3.169e3	1.966e2	2.261e2	0.87	NO	4.227e2	0.12135	0.12135	0.122
18	Total Tetra-Furans	24.61	2.846e3	2.820e3	1.087e2	1.616e2	0.67	NO	2.703e2	0.077618	0.077618	0.122
19	2,3,7,8-TCDF	24.73	6.409e3	1.021e4	3.329e2	3.954e2	0.84	NO	7.283e2	0.20909	0.20909	0.122
20	Total Tetra-Furans	24.78	6.755e3	1.019e4	2.733e2	2.930e2	0.93	YES	0.000e0	0.00000	0.14888	0.122
21	Total Tetra-Furans	25.20	4.581e3	7.059e3	4.096e2	5.218e2	0.78	NO	9.314e2	0.26741	0.26741	0.122
22	Total Tetra-Furans	26.95	3.344e3	1.560e3	1.768e2	1.147e2	1.54	YES	0.000e0	0.00000	0.058281	0.122

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	26.98	1.543e3	1.276e3	1.313e2	9.969e1	1.32	YES	0.000e0	0.00000	0.086728	0.0170

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-12c.qld

Last Altered: Monday, March 30, 2020 10:24:33 AM Pacific Daylight Time

Printed: Monday, March 30, 2020 10:29:54 AM Pacific Daylight Time

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.53	3.836e3	2.984e3	2.096e2	1.833e2	1.14	YES	0.000e0	0.00000	0.13841	0.0678
2	Total Penta-Furans	28.67	5.257e3	3.841e3	3.873e2	2.545e2	1.52	NO	6.418e2	0.25761	0.25761	0.0678
3	1,2,3,7,8-PeCDF	29.71	2.917e3	2.380e3	1.160e2	1.161e2	1.00	YES	2.321e2	0.00000	0.073412	0.0685
4	2,3,4,7,8-PeCDF	30.73	3.523e3	3.545e3	1.969e2	1.851e2	1.06	YES	3.820e2	0.00000	0.12996	0.0640

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.60	3.433e3	1.882e3	1.435e2	1.085e2	1.32	NO	2.520e2	0.11196	0.11196	0.0337

Hepta-Furans

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

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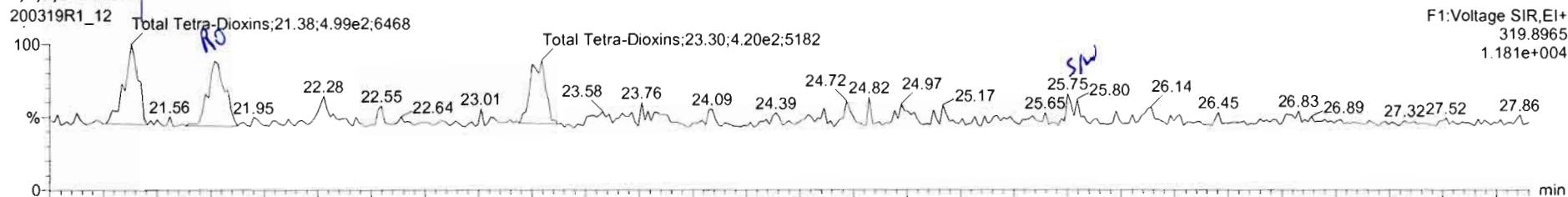
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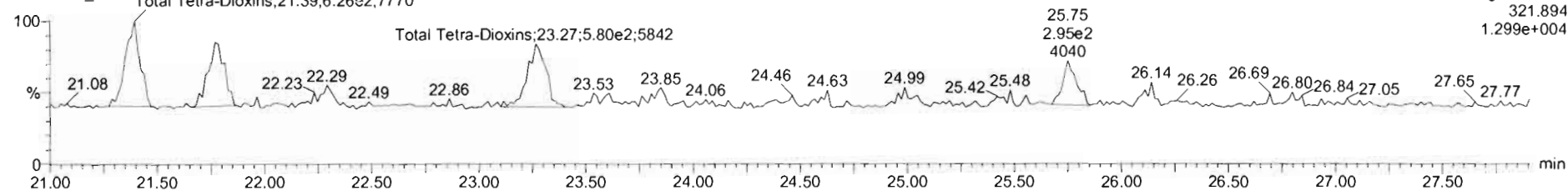
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Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

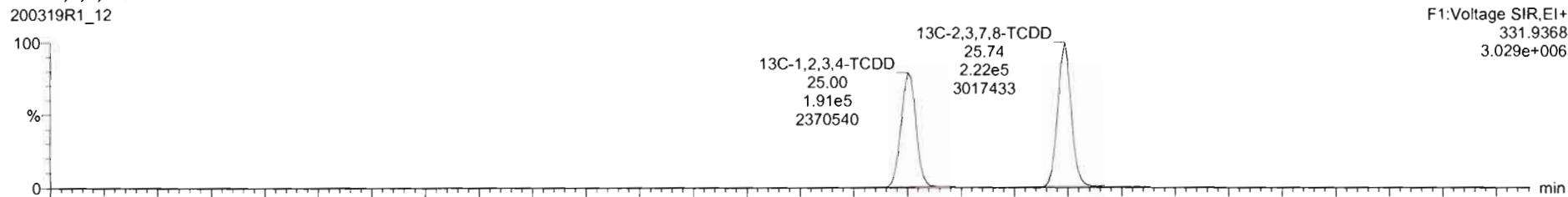
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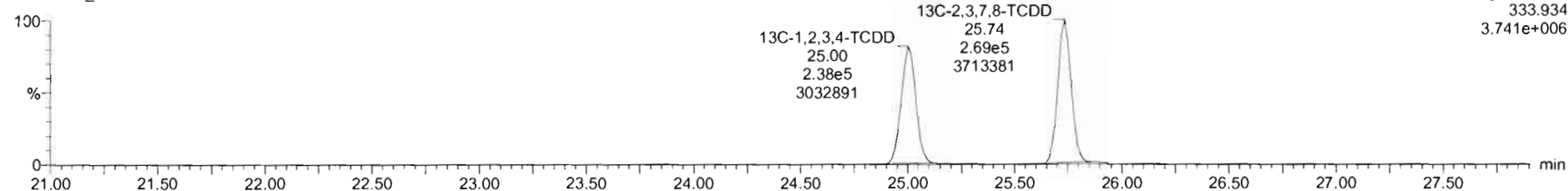
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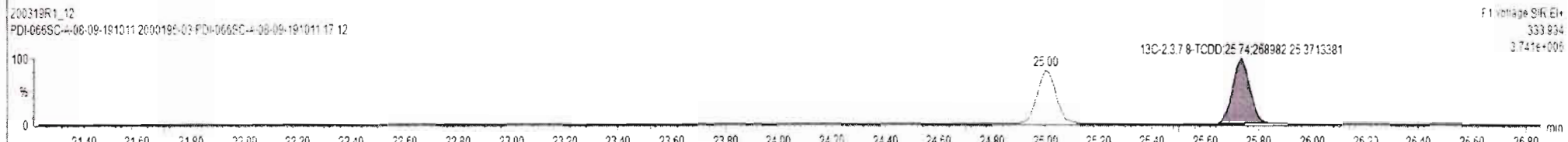
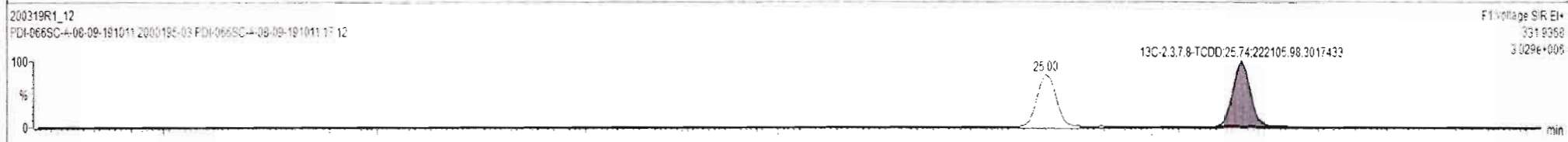
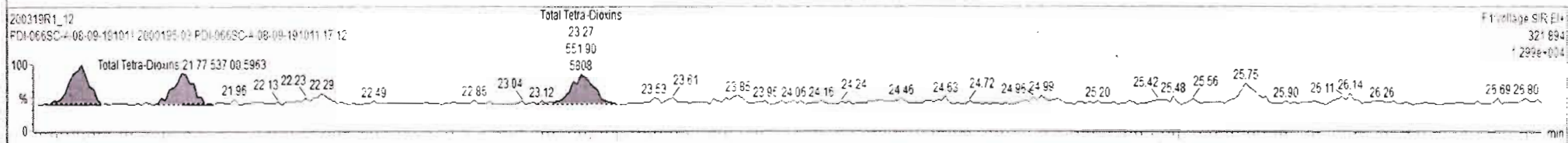
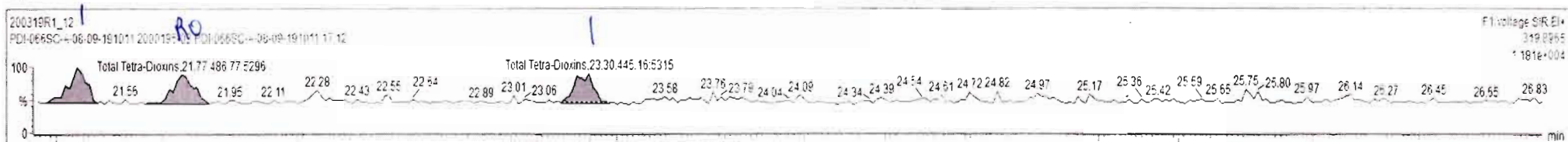
200319R1_12



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wrt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.007			0.682		0.117	1.28
40 Total Penta-Dioxins				0.5212	10.007					0.0632	
41 Total Hexa-Dioxins				0.2344	10.007			1.19		0.0812	2.05
42 Total Hepta-Dioxins				1.0051	10.007			2.78		0.136	2.78
43 Total Tetra-Furans				0.9154	10.007			2.23		0.122	3.18

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	21.38	4.585e2	5.367e2	0.78	NO	0.46977	0.46977
2 Total Tetra-Dioxins	21.77	4.585e2	5.376e2	0.91	YES	0.38934	0.00300
3 Total Tetra-Dioxins	23.30	4.452e2	5.515e2	0.81	NO	0.41261	0.41261



Ready

200319R1_12

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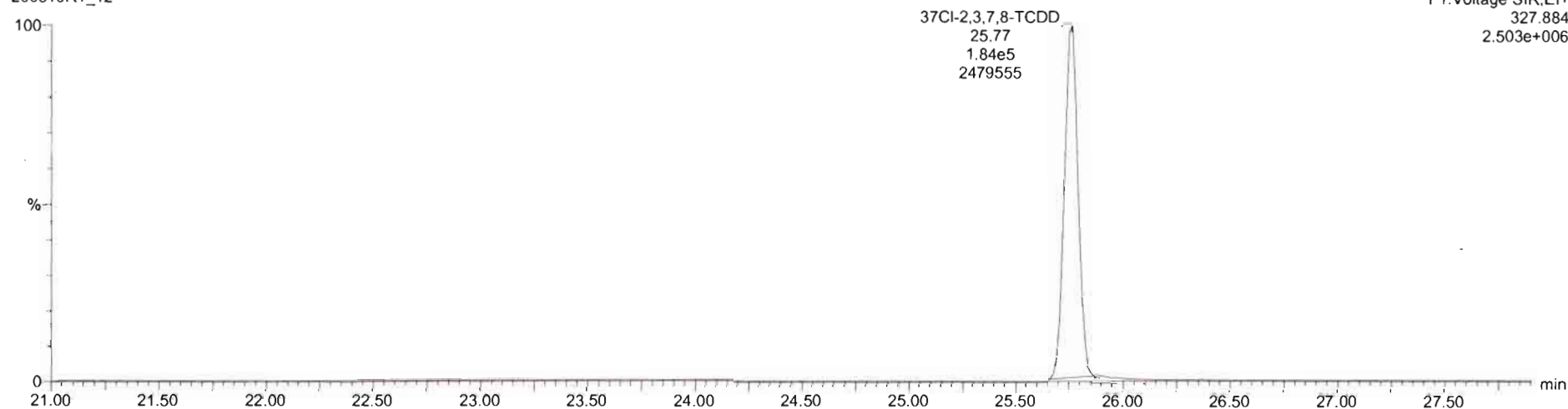
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Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

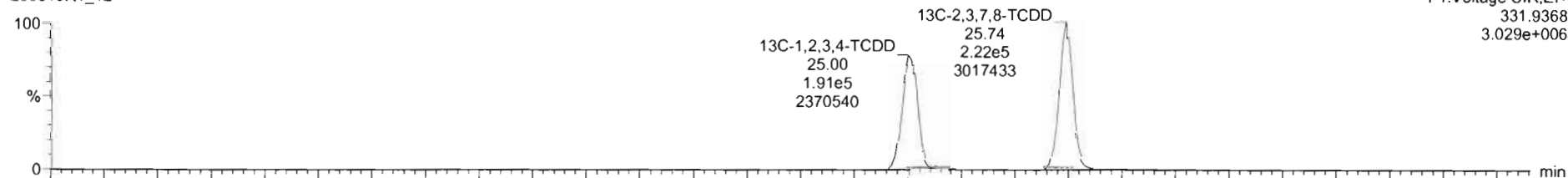
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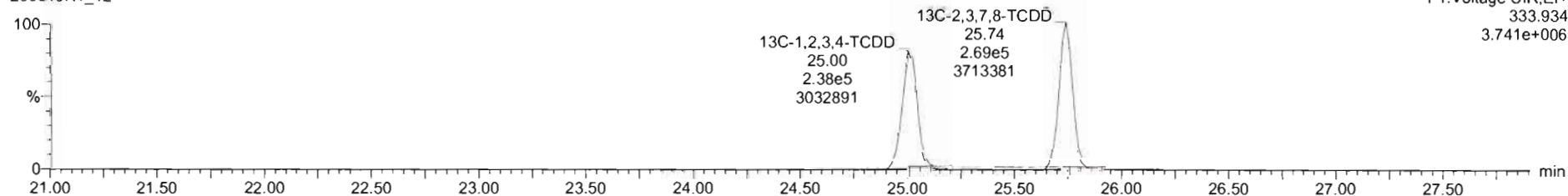


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200319R1_12



200319R1_12



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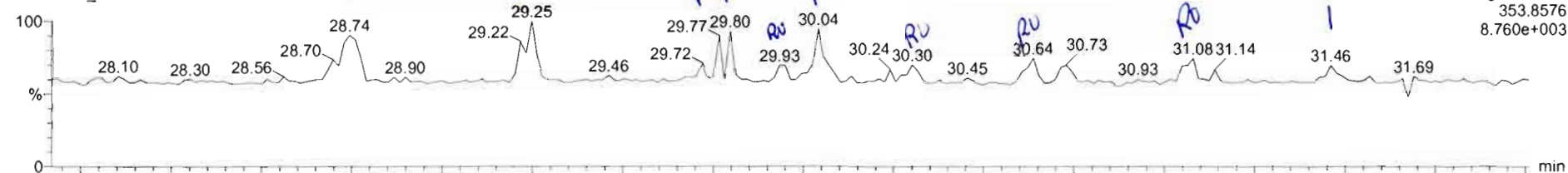
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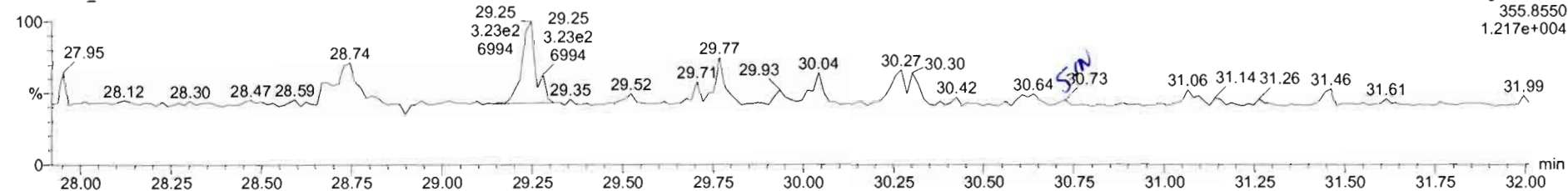
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1,2,3,7,8-PeCDD

200319R1_12

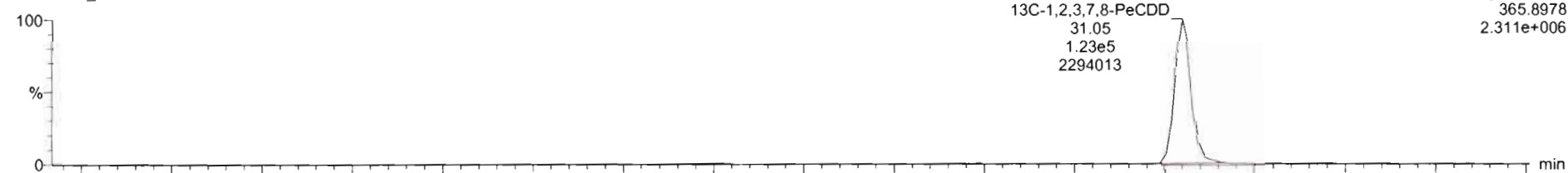


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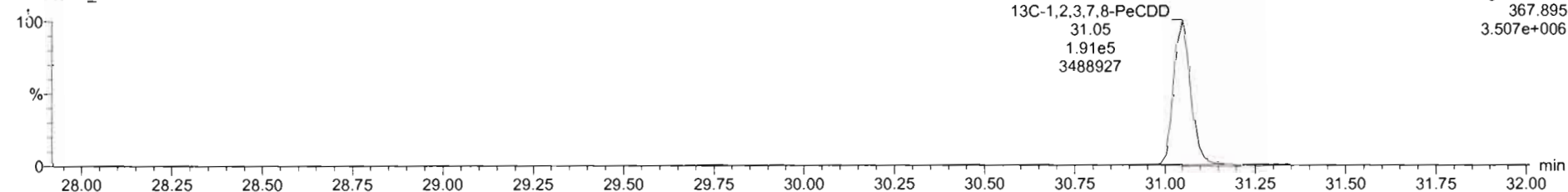


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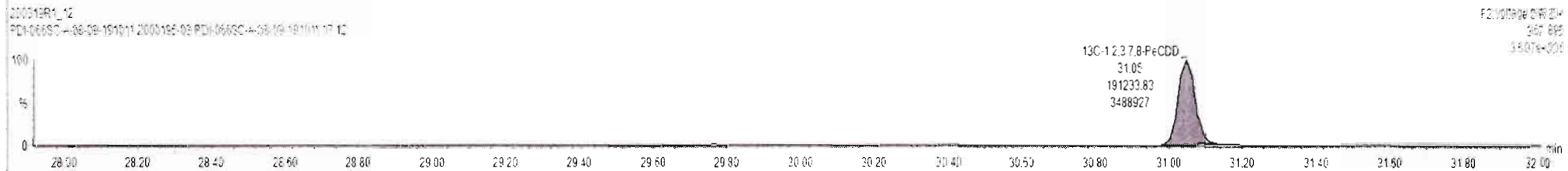
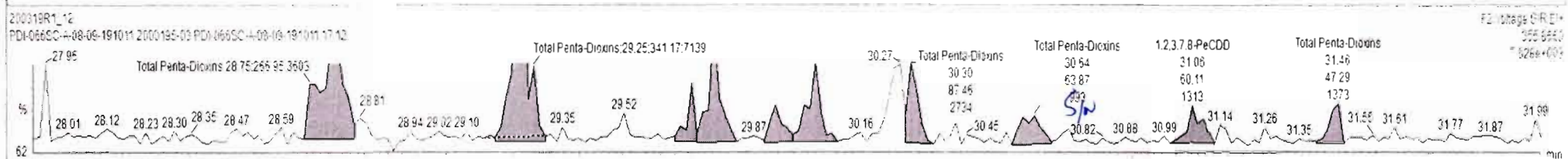
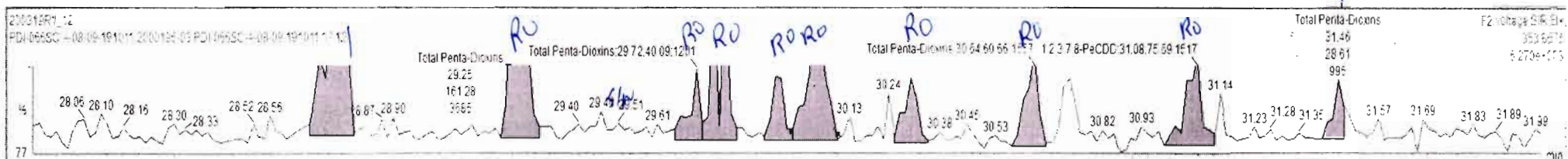


200319R1_12



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9212	10.007			0.367		0.0632	1.27
41 Total Hexa-Dioxins				0.9844	10.007			2.1E		0.0212	2.1E

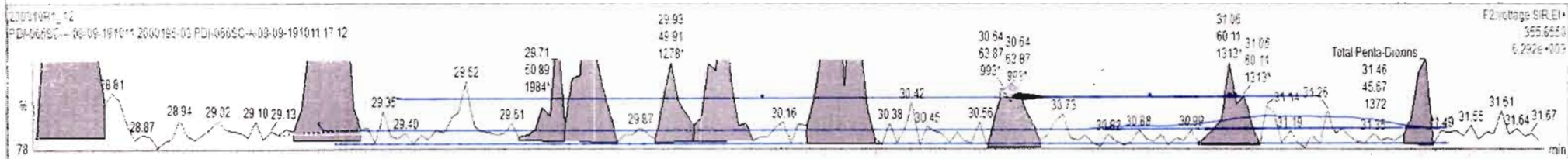
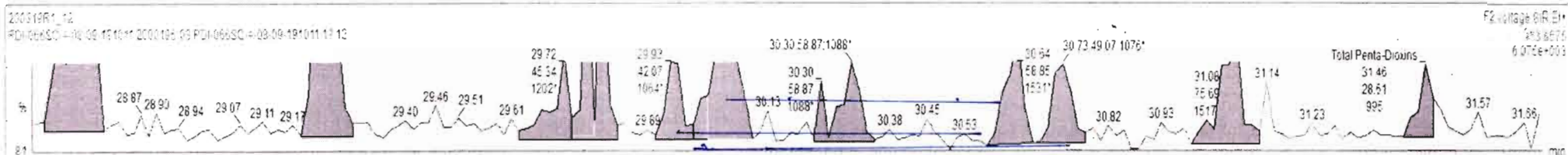
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.74	1.890e2	2.670e2	0.71	NO	0.21444	0.31444
2 Total Penta-Dioxins	29.25	1.613e2	3.412e2	0.47	YES	0.28777	0.00000
3 Total Penta-Dioxins	29.72	4.009e1	4.841e1	0.82	YES	0.054415	0.00000
4 Total Penta-Dioxins	29.80	1.119e2	1.402e2	0.80	YES	0.15762	0.00000
5 Total Penta-Dioxins	29.93	4.207e1	4.951e1	0.84	YES	0.056108	0.00000
6 Total Penta-Dioxins	30.04	1.341e2	1.099e2	1.22	YES	0.12325	0.00000
7 Total Penta-Dioxins	30.30	4.542e1	8.746e1	0.52	YES	0.081041	0.00000
8 Total Penta-Dioxins	30.64	6.066e1	9.287e1	0.65	YES	0.071793	0.00000
9 1,2,3,7,8-PeCDD	31.08	7.569e1	6.011e1	1.26	YES	0.067570	0.00000
10 Total Penta-Dioxins	31.46	2.861e1	4.729e1	0.61	NO	0.052347	0.052347



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	nly	RF	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9212	10.007			0.361		0.0632	0.859
41 Total Hexa-Dioxins				0.9844	10.007			2.15		0.0612	2.15

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	26.75	1.821e2	2.670e2	0.66	NO	0.01000	0.10965
2 Total Penta-Dioxins	26.25	1.613e2	3.256e2	0.50	YES	0.23800	0.00000
3 Total Penta-Dioxins	26.77	5.055e1	1.066e2	0.47	YES	0.090000	0.00000
4 Total Penta-Dioxins	30.04	1.189e2	1.063e2	1.12	YES	0.12000	0.00000
5 Total Penta-Dioxins	31.46	2.861e1	4.567e1	0.63	NO	0.051000	0.051232



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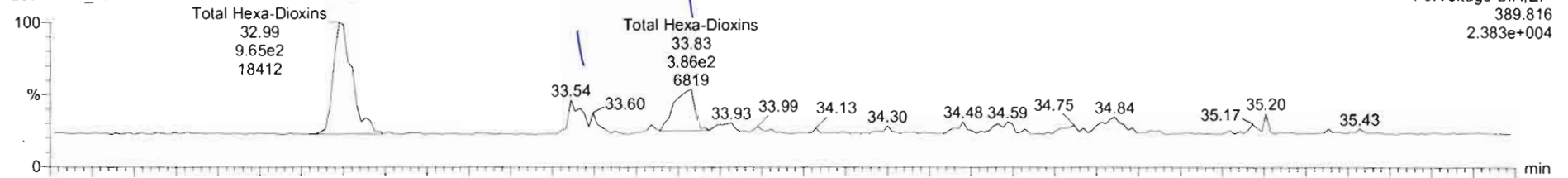
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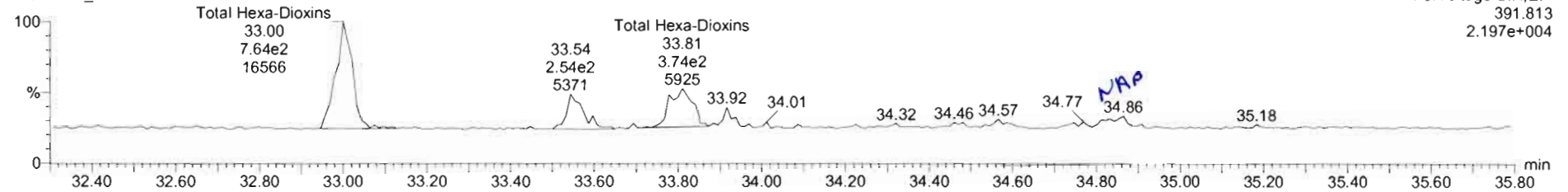
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1,2,3,4,7,8-HxCDD

200319R1_12

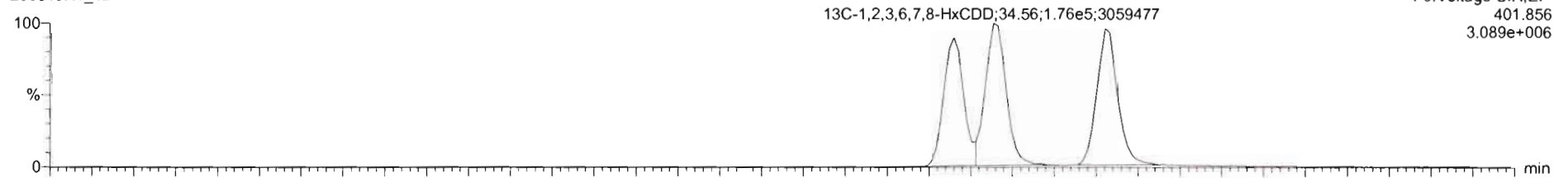


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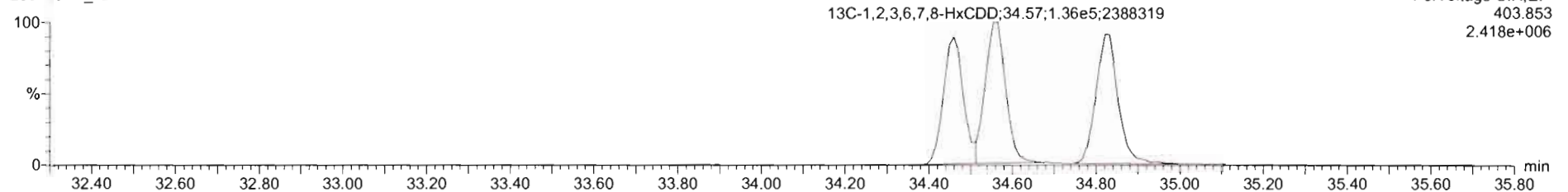


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200319R1_12



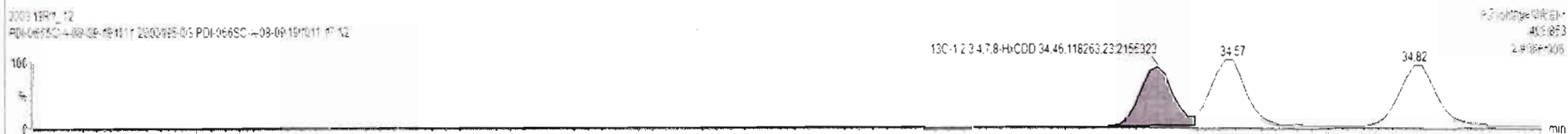
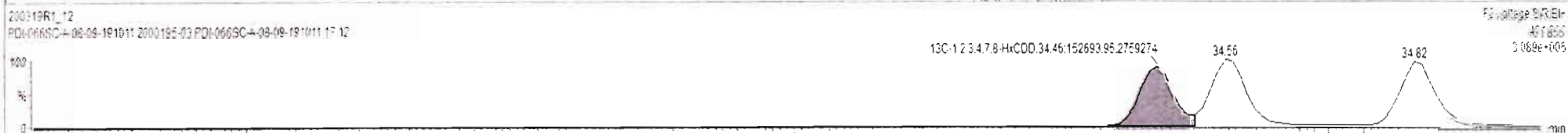
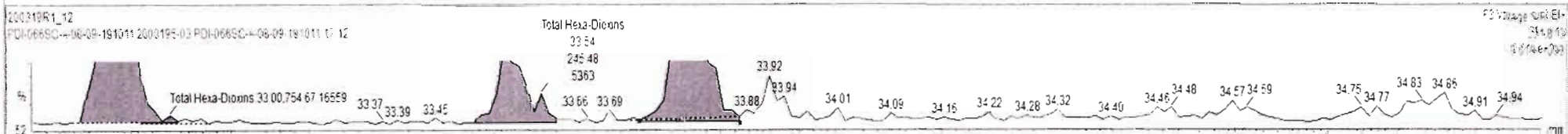
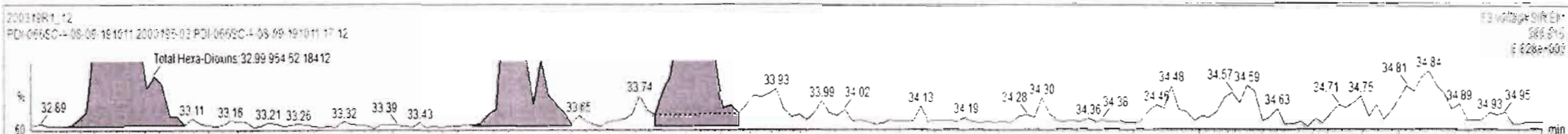
200319R1_12



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9805	10.007			0.882	0.117	1.28	
40 Total Penta-Dioxins				0.9212	10.007			0.561	0.2632	0.853	
41 Total Hexa-Dioxins				0.9844	10.007			2.15	0.0812	2.15	
42 Total Hepta-Dioxins				1.0021	10.007			2.78	0.136	2.78	
43 Total Tetra-Furans				0.6154	10.007			2.33	0.122	2.19	

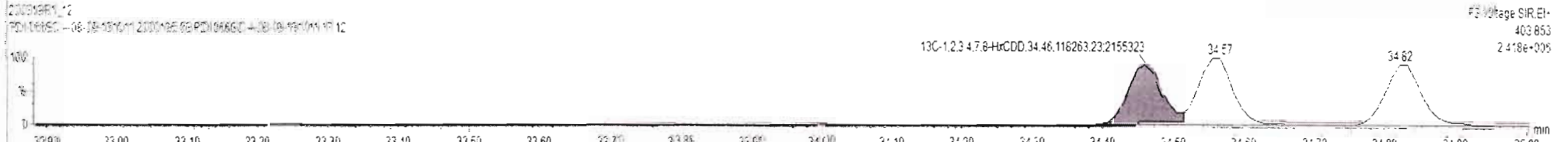
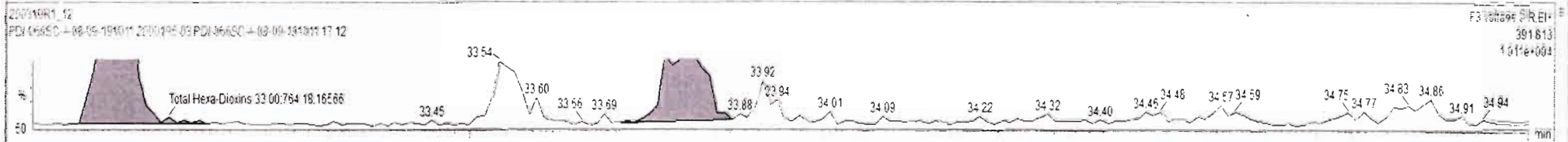
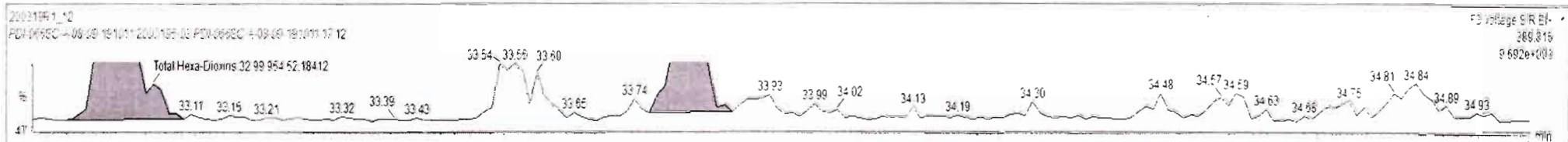
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	32.95	5.646e2	7.447e2	1.28	ND	1.1827	1.1827
2 Total Hexa-Dioxins	33.54	2.905e2	2.455e2	1.18	ND	0.36902	0.36902
3 Total Hexa-Dioxins	33.83	4.612e2	4.081e2	1.14	ND	0.59713	0.59713



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

ID	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.5835	10.007			0.382		0.117	1.28
40	Total Penta-Dioxins				0.5212	10.007			0.351		0.0532	0.855
41	Total Hexa-Dioxins				0.9844	10.007			1.19		0.0812	2.06
42	Total hepta-Dioxins				1.0061	10.007			2.78		0.136	2.73
43	Total Tetra-Furans				0.9154	10.007			2.23		0.122	3.18

ID	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	32.14	3.155e2	1.755e2	0.91	ES	0.79258	0.00300
2	Total Hexa-Dioxins	32.39	9.646e2	7.642e2	1.26	NO	1.1903	1.1903
3	Total Hexa-Dioxins	33.83	3.855e2	3.743e2	1.03	YES	0.47948	0.00000



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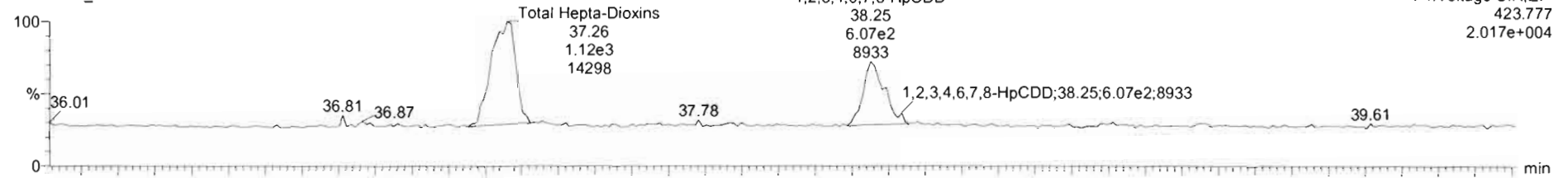
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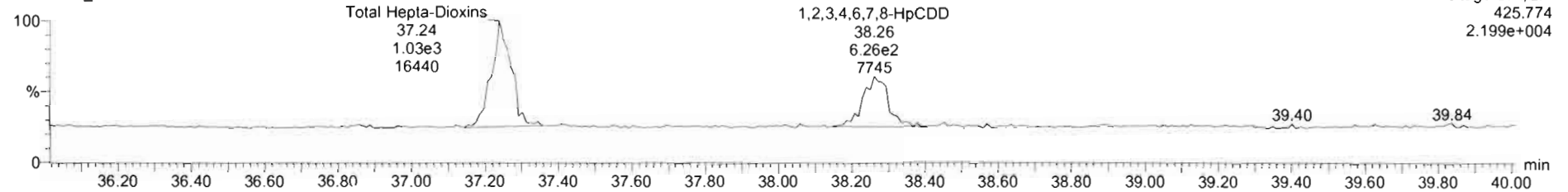
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1,2,3,4,6,7,8-HpCDD

200319R1_12

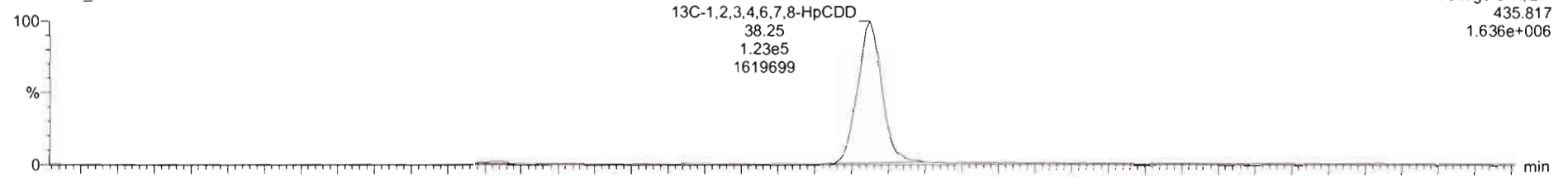


200319R1_12

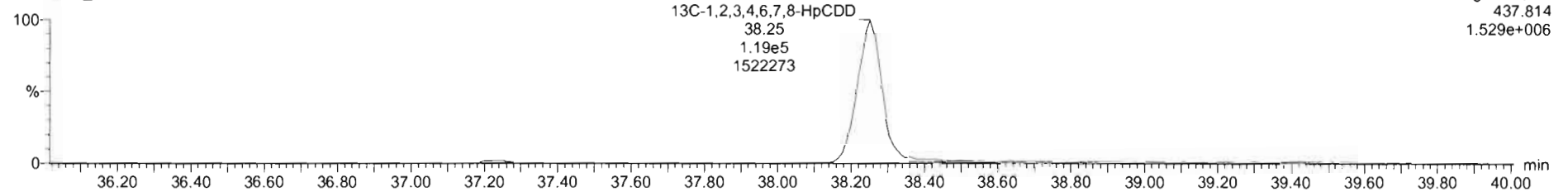


13C-1,2,3,4,6,7,8-HpCDD

200319R1_12



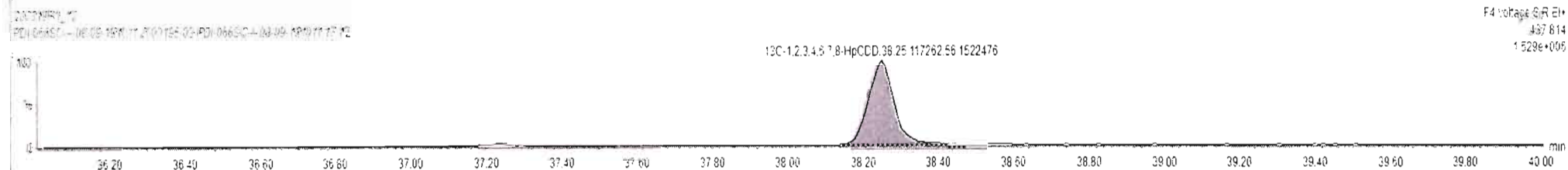
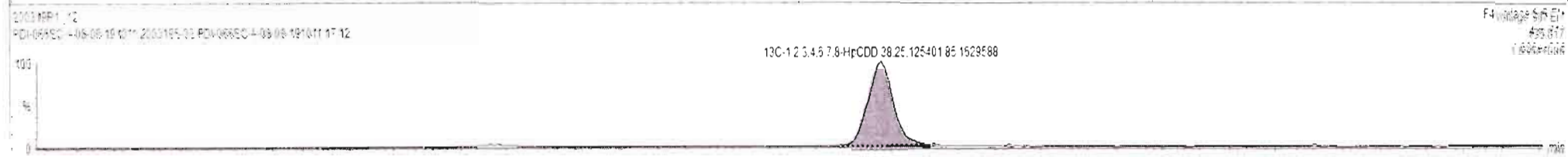
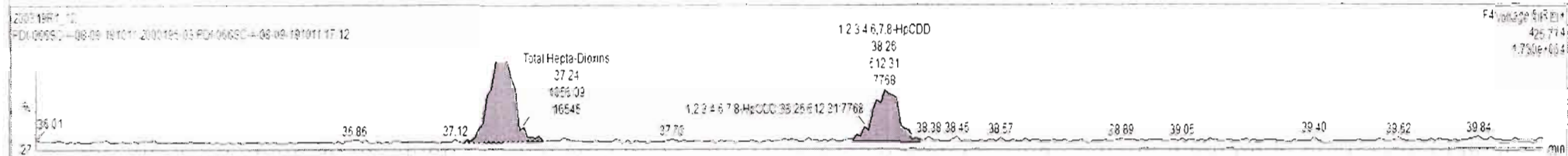
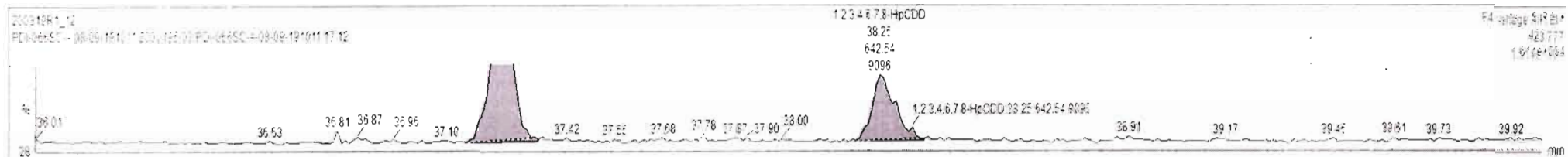
200319R1_12



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9212	10.007			0.367		0.0630	1.27
41 Total Hexa-Dioxins				0.9844	10.007			2.16		0.0612	2.16

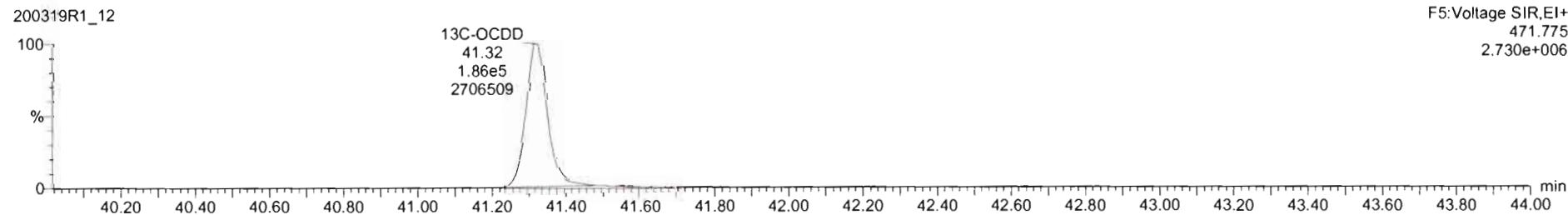
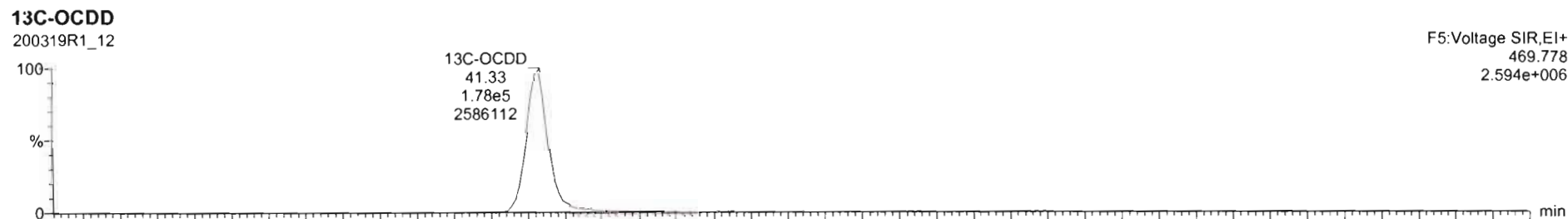
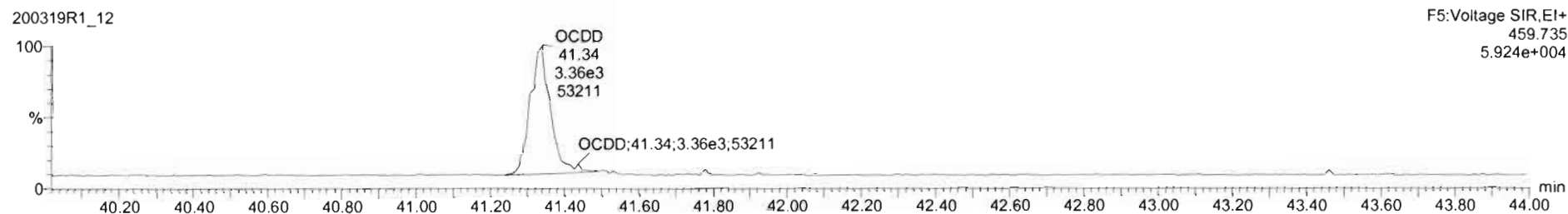
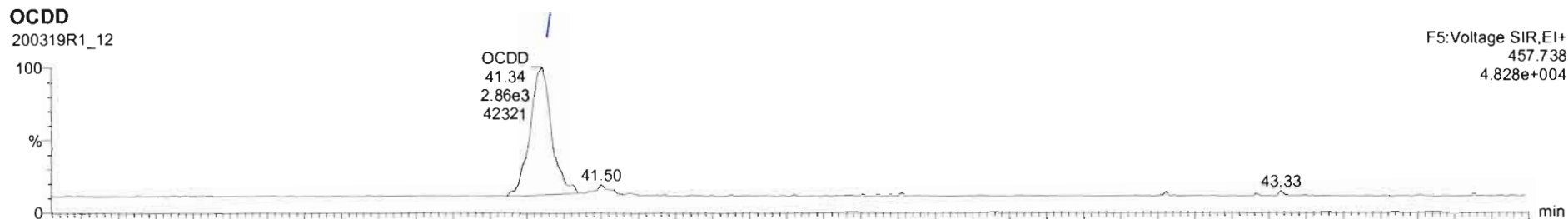
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hepta-Dioxins	37.26	1.155e1	1.058e2	1.10	NO	1.5187	1.5187
2 1,2,3,4,6,7,8-HpCDD	38.26	6.426e2	6.123e2	1.05	NO	1.0273	1.0273



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011



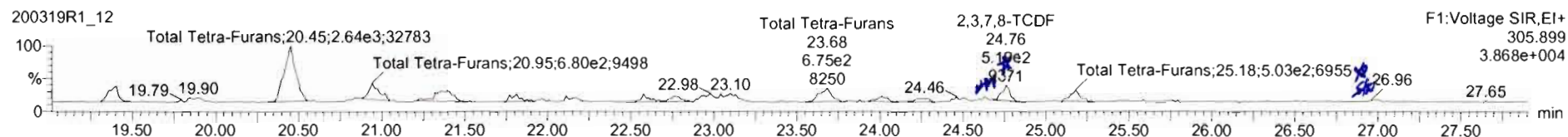
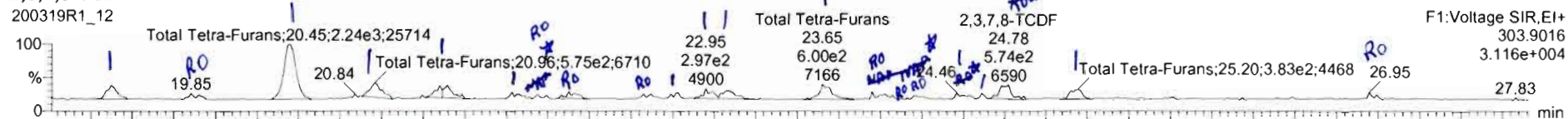
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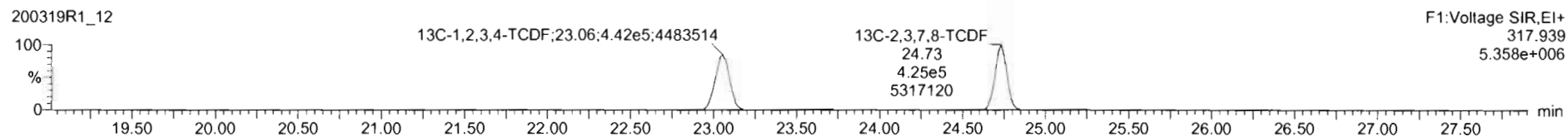
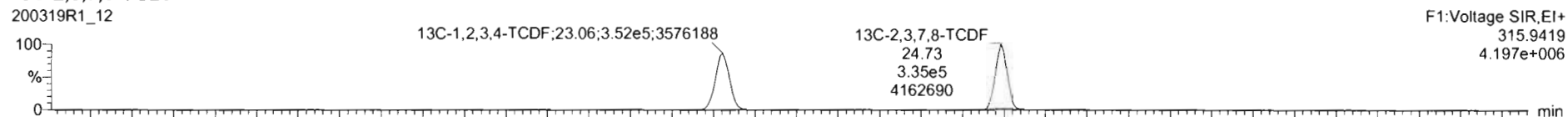
day 03-30-2020

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

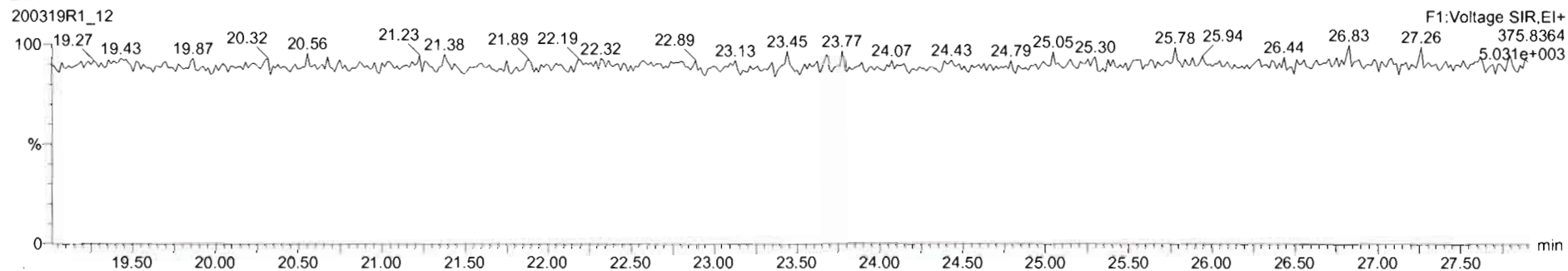
2,3,7,8-TCDF



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



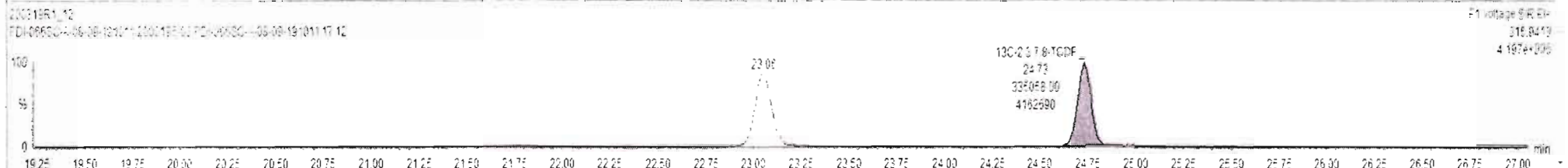
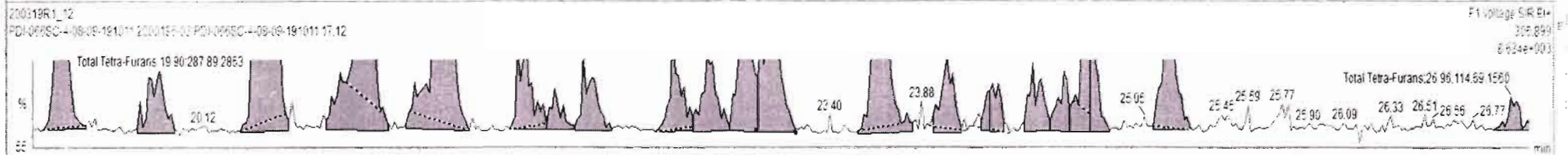
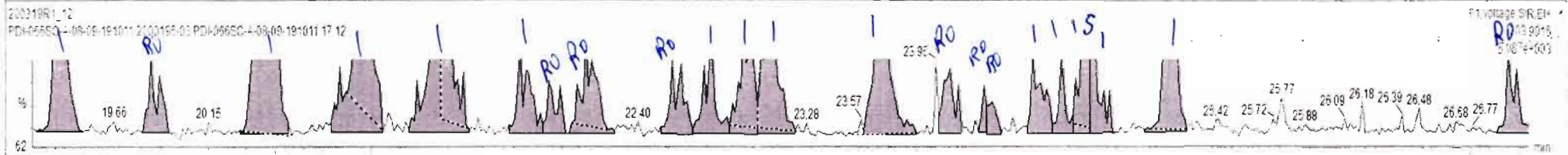
DPE1



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.007			4.73		0.122	5.55
44 1st-Furc Penta-Furans				0.9594	10.007			0.050		0.0170	0.0667

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	19.37	4.552e2	5.444e2	0.71	NO	0.31671	0.31671
2 Total Tetra-Furans	19.85	1.644e2	2.879e2	0.57	YES	0.13850	0.00000
3 Total Tetra-Furans	20.45	2.207e2	2.754e2	0.81	NO	1.4330	1.4330
4 Total Tetra-Furans	20.96	5.193e2	1.162e2	0.71	NO	0.52881	0.52881
5 Total Tetra-Furans	21.39	8.178e2	9.654e2	0.83	NO	0.51771	0.51771
6 Total Tetra-Furans	21.78	2.524e2	3.497e2	0.66	NO	0.16712	0.16712
7 Total Tetra-Furans	21.92	1.241e2	1.100e2	1.07	YES	0.058923	0.00000
8 Total Tetra-Furans	22.10	2.897e2	2.555e2	1.16	YES	0.13139	0.00000
9 Total Tetra-Furans	22.58	1.926e2	3.095e2	0.62	YES	0.12714	0.00000
10 Total Tetra-Furans	22.77	2.178e2	3.170e2	0.69	NO	0.15267	0.15267
11 Total Tetra-Furans	22.95	3.321e2	4.654e2	0.72	NO	0.23011	0.23011
12 Total Tetra-Furans	23.05	4.147e2	5.672e2	0.73	NO	0.28188	0.28188
13 Total Tetra-Furans	23.85	5.921e2	7.707e2	0.77	NO	0.39156	0.39156
14 Total Tetra-Furans	24.03	1.723e2	2.711e2	0.64	YES	0.11406	0.00000
15 Total Tetra-Furans	24.21	5.663e1	5.910e1	1.67	YES	0.000036	0.00000
16 Total Tetra-Furans	24.25	6.421e1	1.002e2	0.49	YES	0.042276	0.00000
17 Total Tetra-Furans	24.45	1.969e2	2.281e2	0.87	NO	0.12105	0.12105
18 Total Tetra-Furans	24.81	1.087e2	1.616e2	0.67	NO	0.077818	0.077818
19 13C-2,3,7,8-TCDF	24.73	3.323e2	3.954e2	0.84	NO	0.23909	0.23909
20 Total Tetra-Furans	24.76	2.733e2	2.930e2	0.93	YES	0.14868	0.00000
21 Total Tetra-Furans	25.20	4.090e2	5.216e2	0.76	NO	0.26741	0.26741
22 Total Tetra-Furans	26.95	1.758e2	1.147e2	1.54	YES	0.058261	0.00000

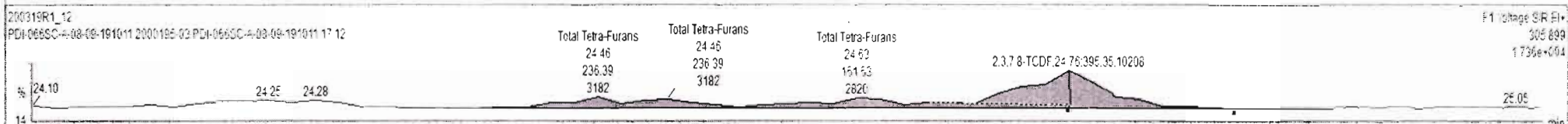
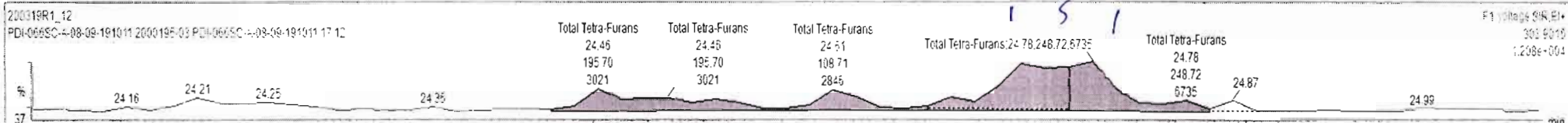




200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.007			4.88		0.122	5.42
44 1st Func. Penta-Furans				0.9594	10.007			0.200		0.0170	0.0867

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.37	4.552e2	6.444e2	0.71	NO	0.31571	0.21571
2 Total Tetra-Furans	19.85	1.644e2	2.879e2	0.57	YES	0.10350	0.00300
3 Total Tetra-Furans	20.45	2.237e3	2.754e3	0.81	NO	1.4330	1.4330
4 Total Tetra-Furans	20.95	7.951e2	1.162e3	0.65	NO	0.56200	0.65100
5 Total Tetra-Furans	21.35	8.685e2	9.854e2	0.82	NO	0.51513	0.51513
6 Total Tetra-Furans	21.75	2.324e2	3.457e2	0.66	NO	0.16712	0.16712
7 Total Tetra-Furans	21.93	1.241e2	1.160e2	1.07	YES	0.056923	0.00000
8 Total Tetra-Furans	22.11	2.956e2	2.595e2	1.14	YES	0.12139	0.00000
9 Total Tetra-Furans	22.58	1.926e2	3.096e2	0.62	YES	0.12714	0.00000
10 Total Tetra-Furans	22.77	2.178e2	3.170e2	0.65	NO	0.15357	0.15357
11 Total Tetra-Furans	22.95	3.381e2	4.654e2	0.72	NO	0.23011	0.23011
12 Total Tetra-Furans	23.09	4.184e2	5.673e2	0.72	NO	0.28065	0.28065
13 Total Tetra-Furans	23.65	5.501e2	7.697e2	0.75	NO	0.39702	0.39702
14 Total Tetra-Furans	24.00	1.728e2	2.711e2	0.64	YES	0.11409	0.00000
15 Total Tetra-Furans	24.46	1.957e2	2.264e2	0.83	NO	0.12405	0.12405
16 Total Tetra-Furans	24.61	1.057e2	1.616e2	0.67	NO	0.077916	0.077916
17 2,3,7,8-TCDF	24.73	3.325e2	3.554e2	0.84	NO	0.26905	0.26905
18 Total Tetra-Furans	24.78	2.487e2	2.830e2	0.85	NO	0.15553	0.15553
19 Total Tetra-Furans	25.20	3.834e2	5.218e2	0.72	NO	0.25950	0.25950



Dataset: Untitled

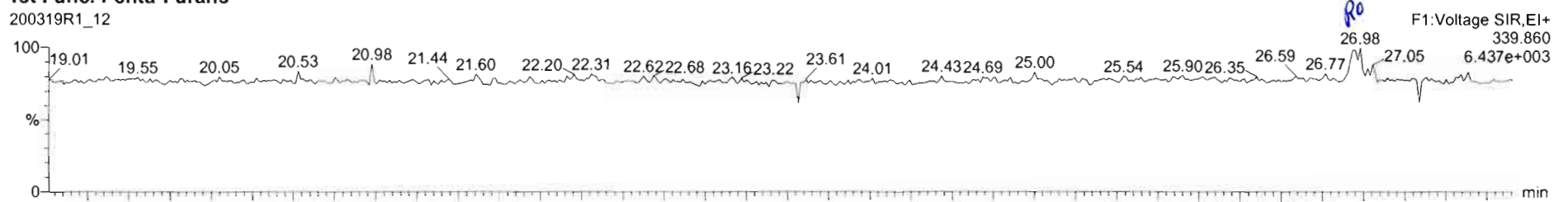
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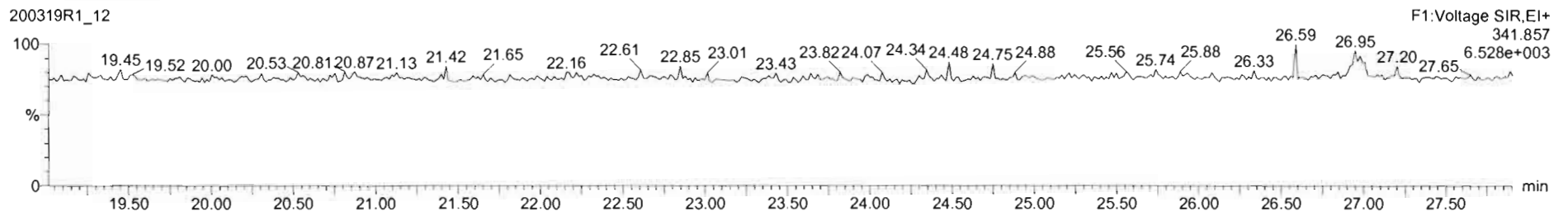
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1st Func. Penta-Furans

200319R1_12

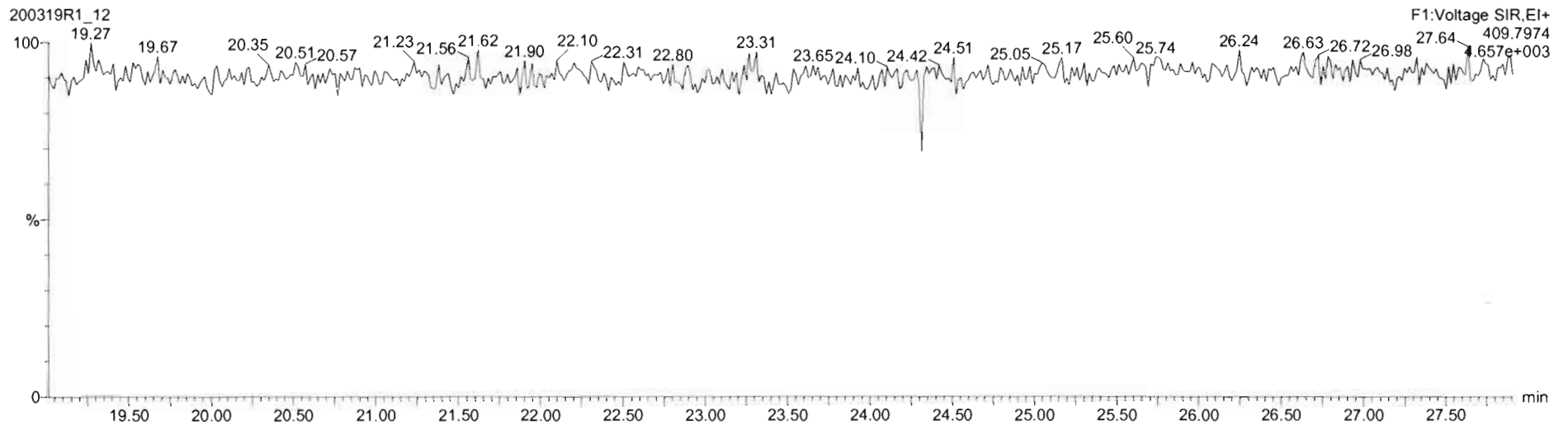


200319R1_12



DPE6

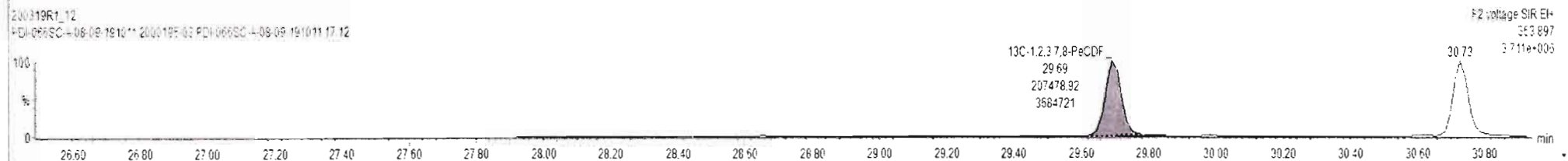
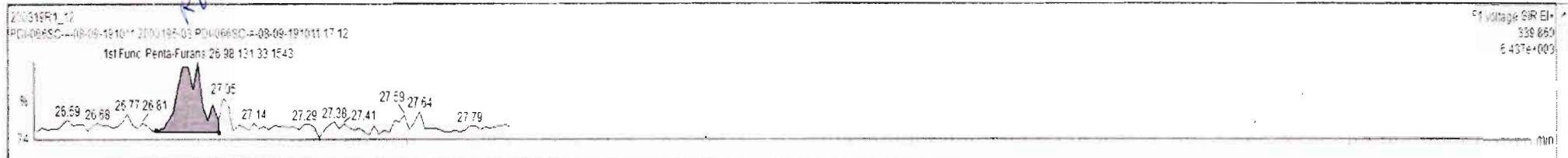
200319R1_12



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.007			± 25		0.122	5.05
44 1st Func. Penta-Furans				0.5594	10.007			0.090		0.0170	0.0867

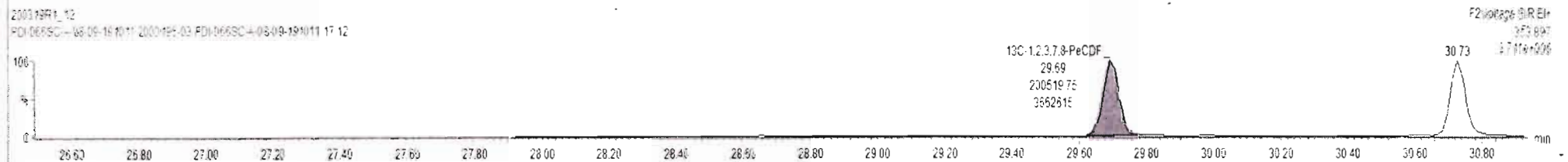
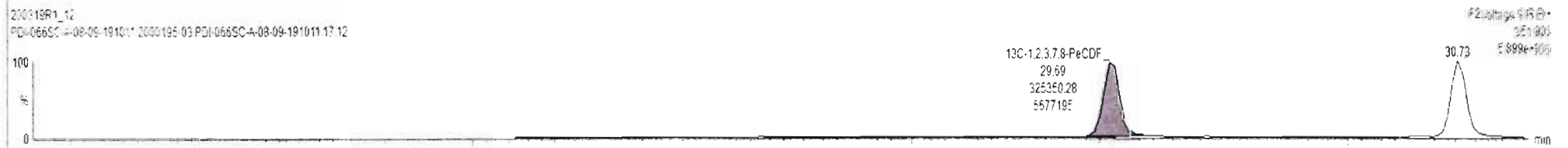
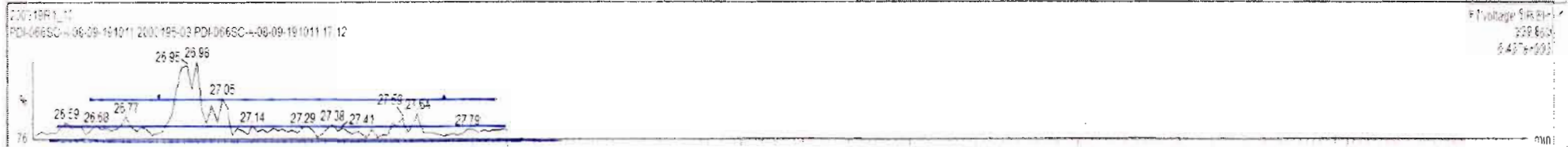
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1st Func. Penta-Furans	26.96	1.111e2	9.969e1	1.32	YES	0.086728	0.00000



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EVPC
43 Total Tetra-Furens				0.3154	10.007			4.25		6.122	5.05
44 1st Func. Penta-Furens				0.9594	10.007					0.0170	

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



Dataset: Untitled

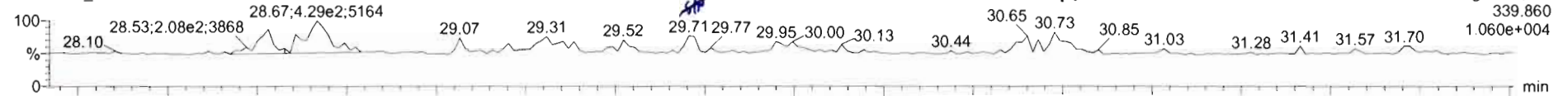
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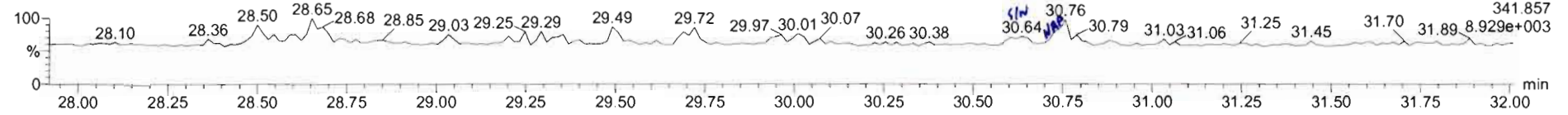
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1,2,3,7,8-PeCDF

200319R1_12

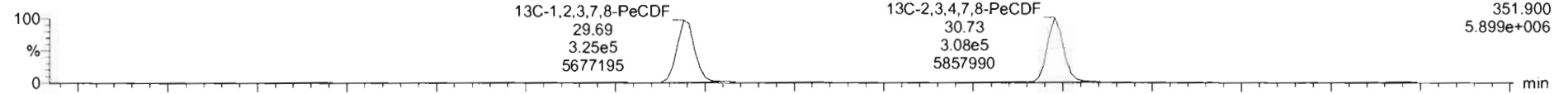


200319R1_12

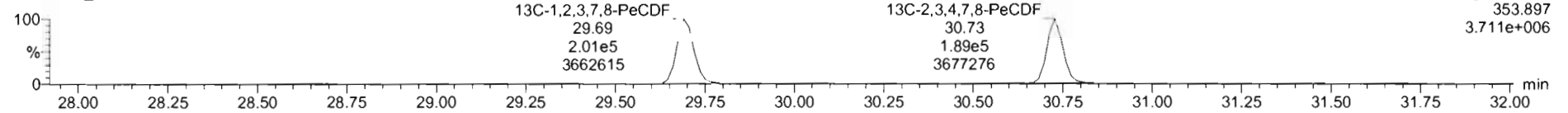


13C-1,2,3,7,8-PeCDF

200319R1_12

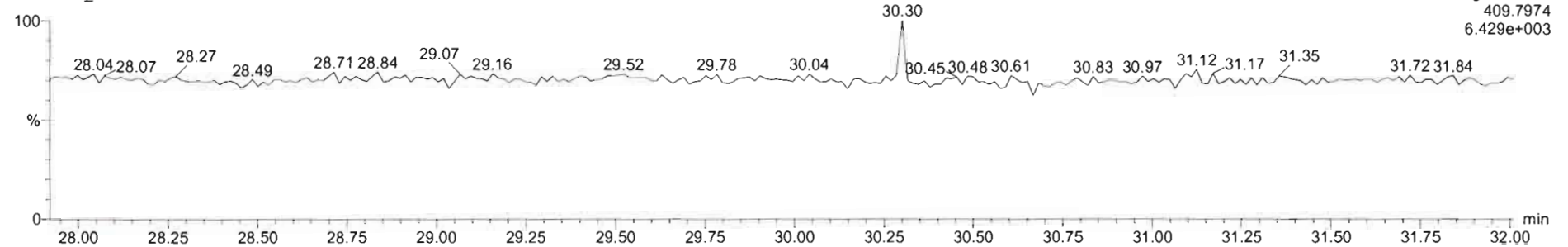


200319R1_12



DPE2

200319R1_12

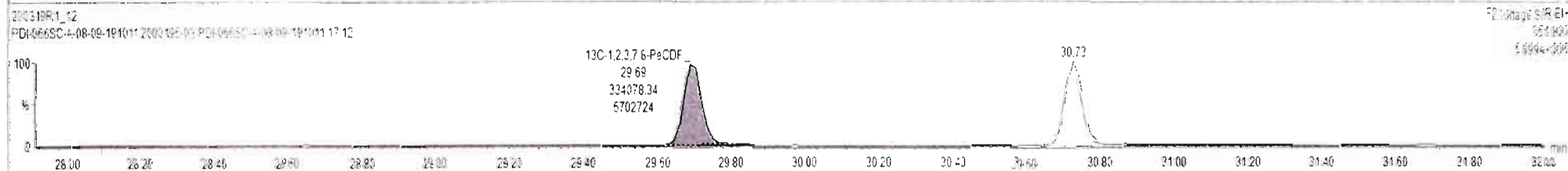
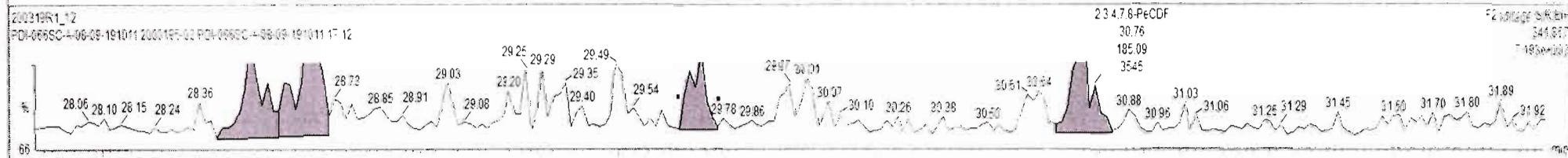
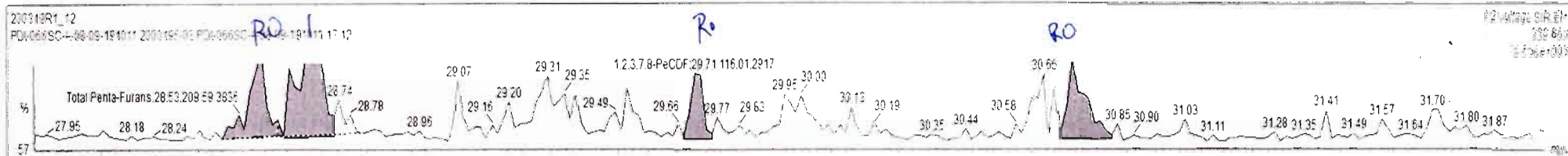




200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wt/wt	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.6154	10.007			4.73		0.122	5.55
44 1st Func. Penta-Furans				0.5594	10.007			0.530		0.0176	0.0827

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.53	2.095e2	1.637e2	1.14	YES	0.13841	0.00000
2 Total Penta-Furans	28.67	2.873e2	2.545e2	1.52	NO	0.25761	0.25761
3 1,2,3,7,8-PeCDF	28.71	1.150e2	1.161e2	1.00	YES	0.073412	0.00000
4 2,3,4,7,8-PeCDF	30.72	1.995e2	1.851e2	1.00	YES	0.12995	0.00000



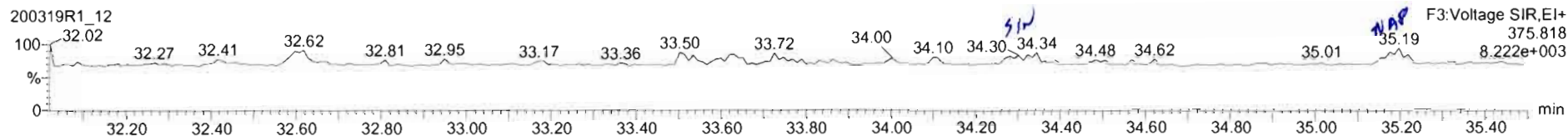
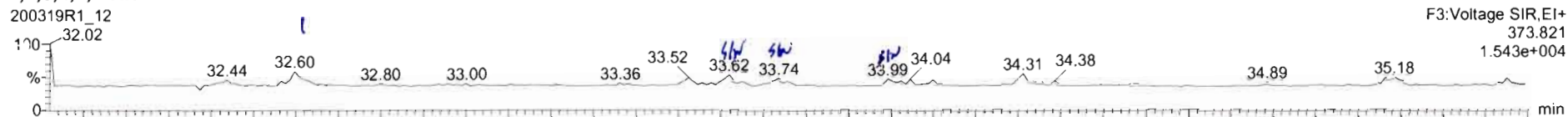
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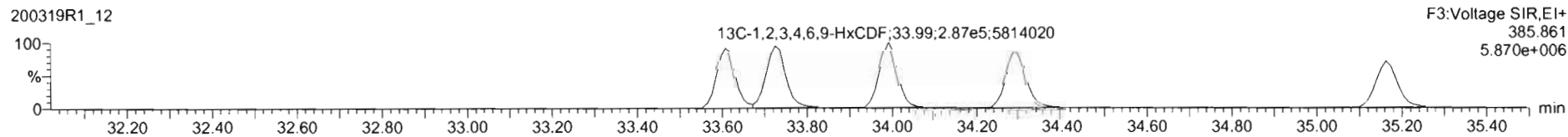
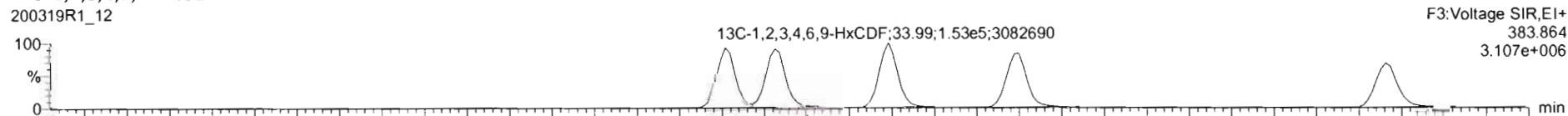
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

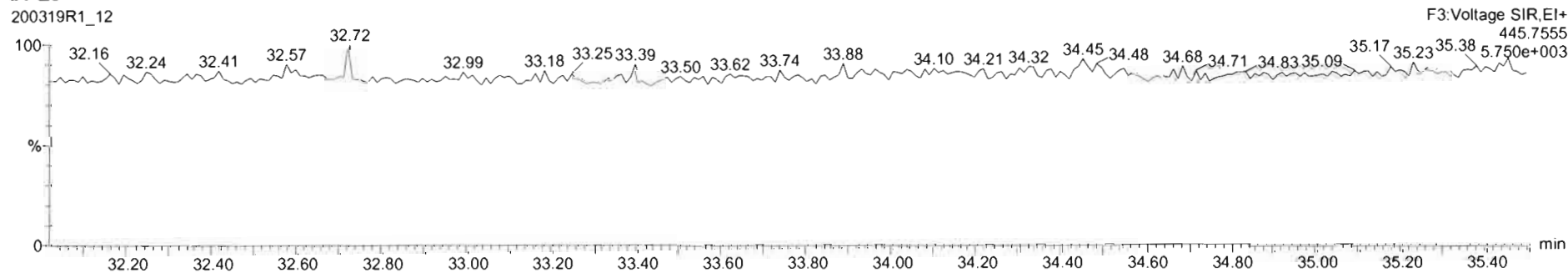
1,2,3,4,7,8-HxCDF



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



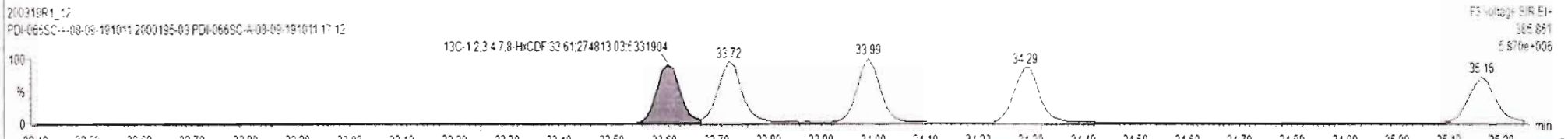
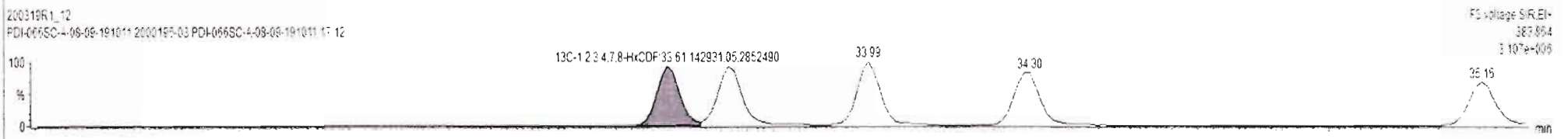
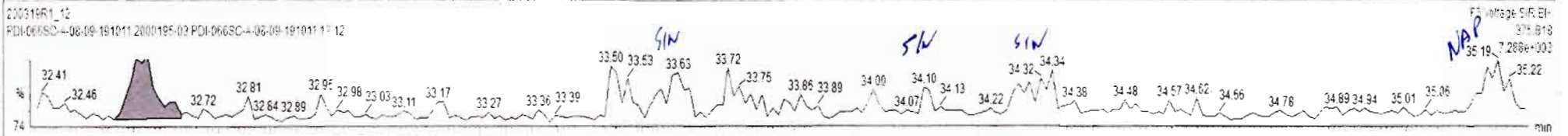
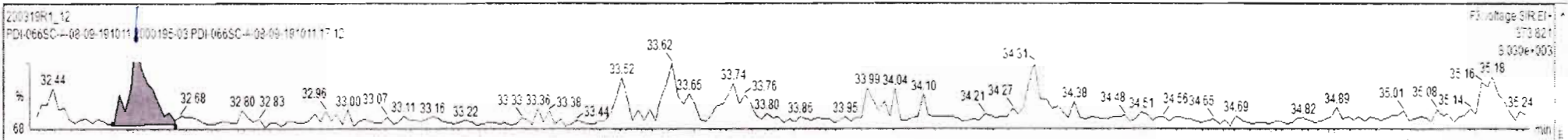
DPE3



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17 12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.007			0.190		0.0678	0.193
46 Total Hexa-Furans				1.0320	10.007			0.112		0.0337	0.112
47 Total Hepta-Furans				1.0453	10.007					0.0442	
48 PFK1											
49 PFK2											

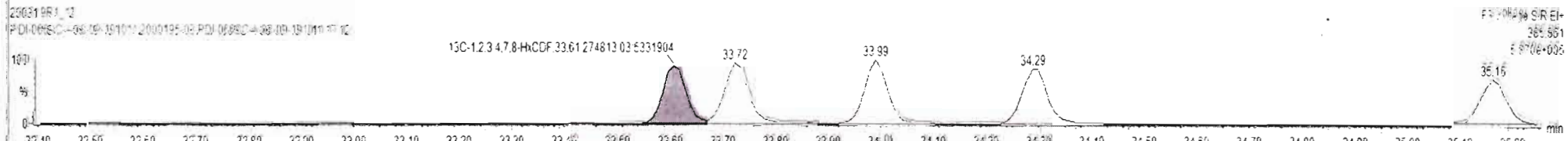
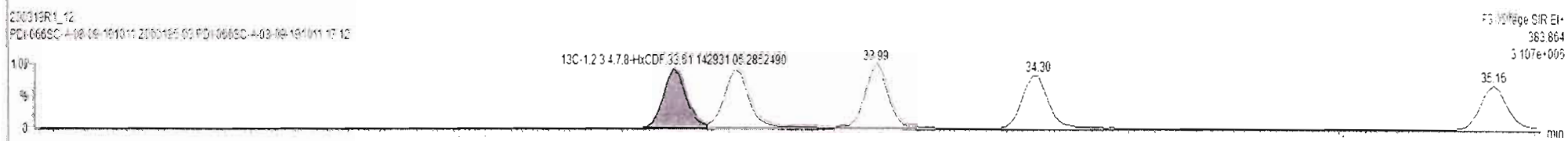
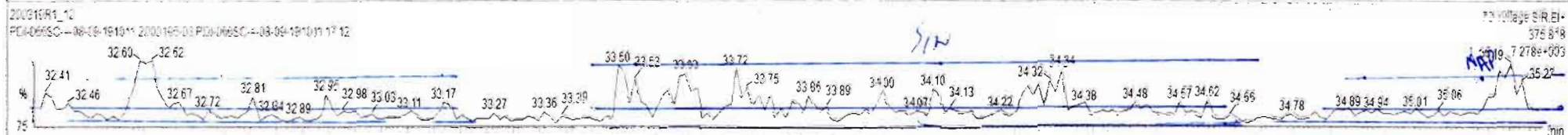
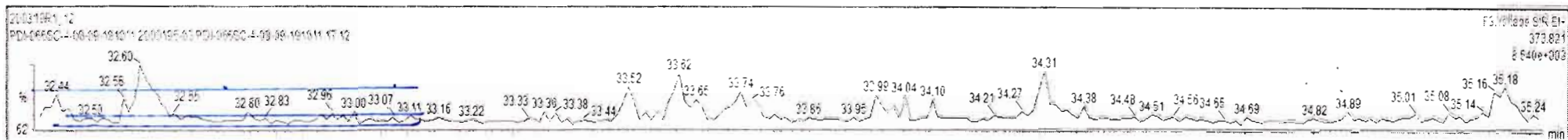
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.50	1.425e2	1.085e2	1.32	N/D	0.1119E	0.1115E



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n _y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.5594	10.007			0.198		0.0278	0.193
46 Total Hexa-Furans				1.0920	10.007					0.0337	
47 Total Hepta-Furans				1.6483	10.007					0.0442	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n _y	EMPC	Conc.
1							

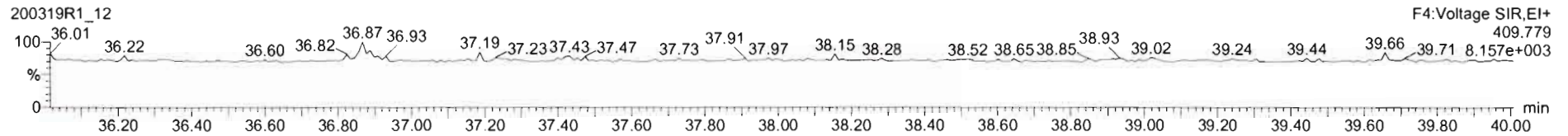
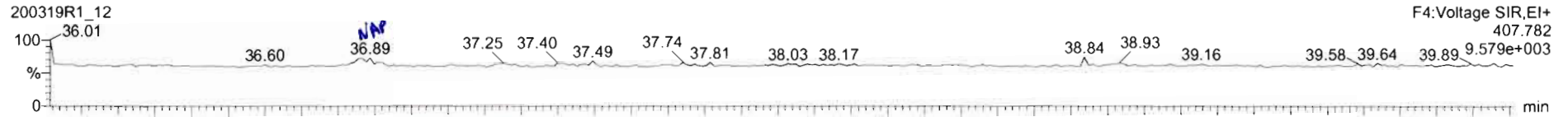


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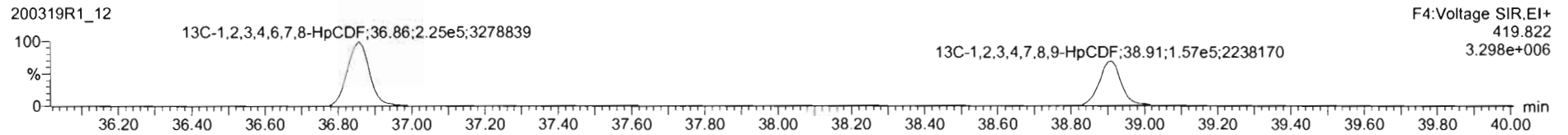
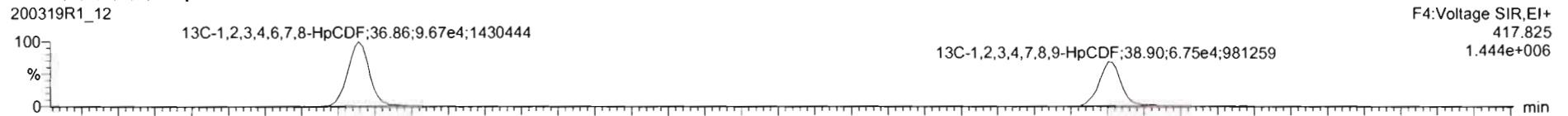
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

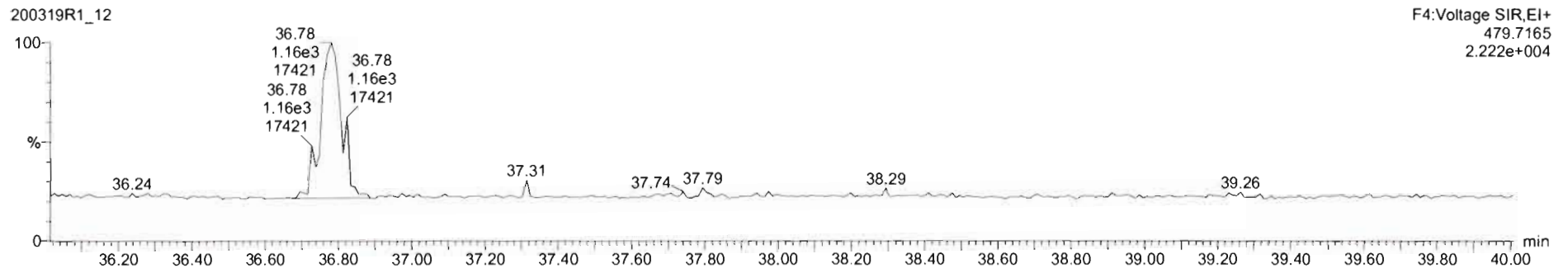
1,2,3,4,6,7,8-HpCDF



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



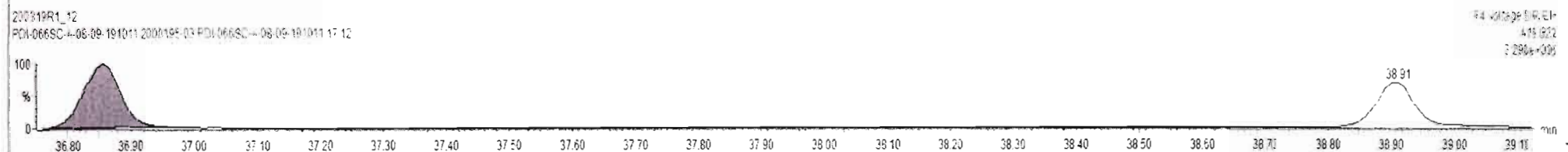
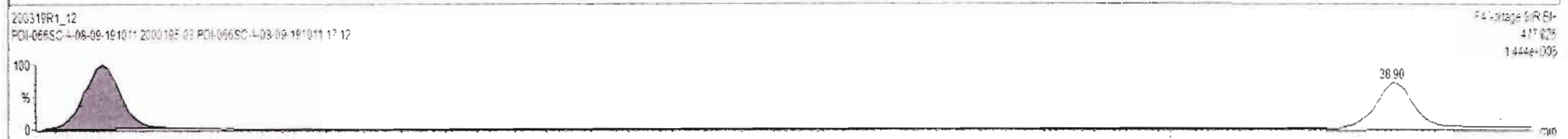
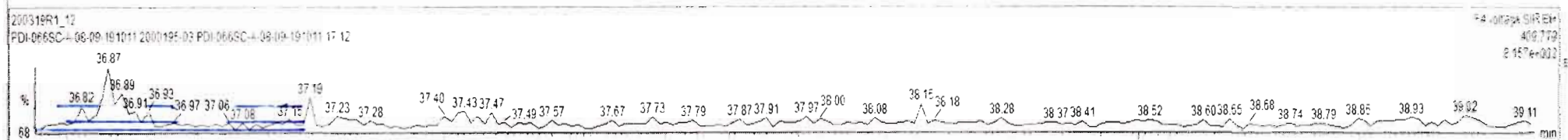
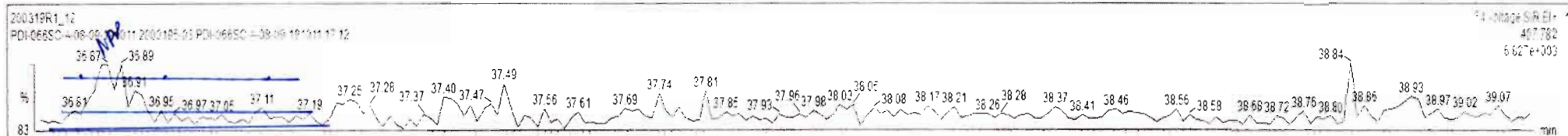
DPE4



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17.12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.2554	10.007			0.158		0.0678	0.155
46 Total Hexa-Furans				1.0520	10.007			0.112		0.0337	0.112
47 Total Hepta-Furans				1.0483	10.007					0.0443	
48 PFK1											
49 PFK2											

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



Ready

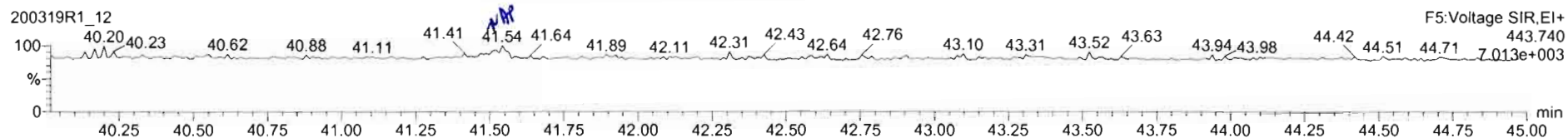
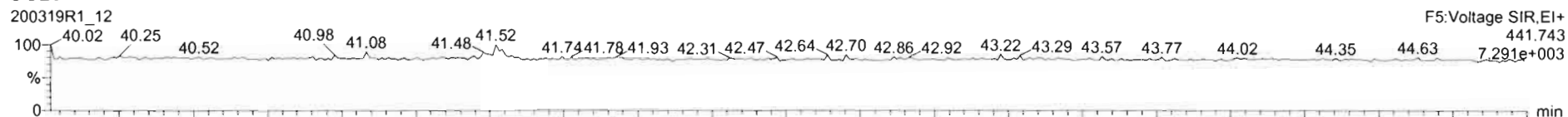
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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

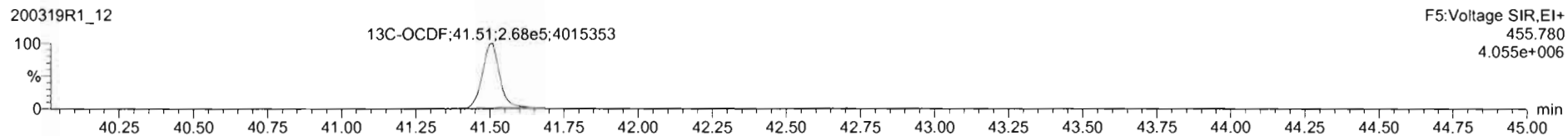
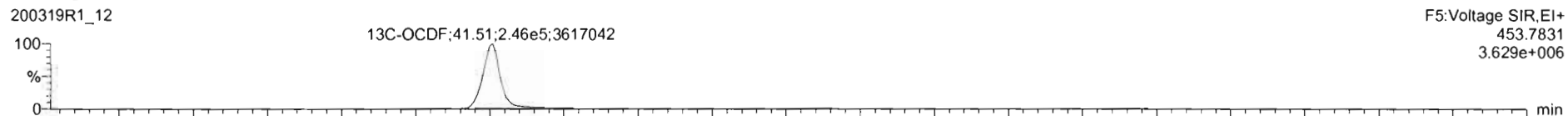
Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011

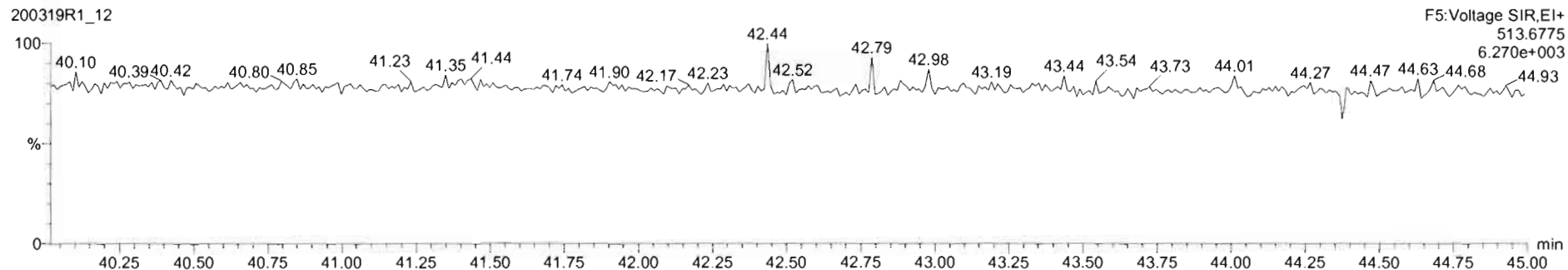
OCDF



13C-OCDF



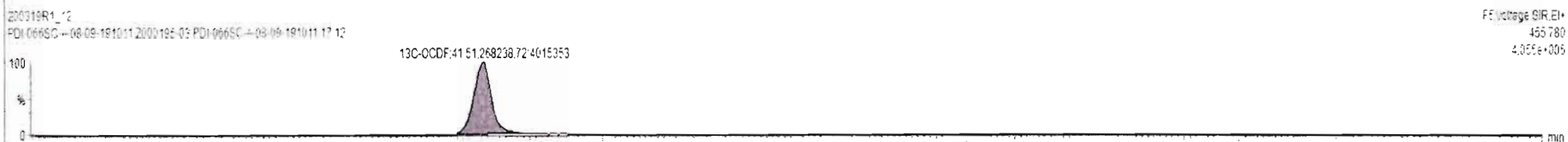
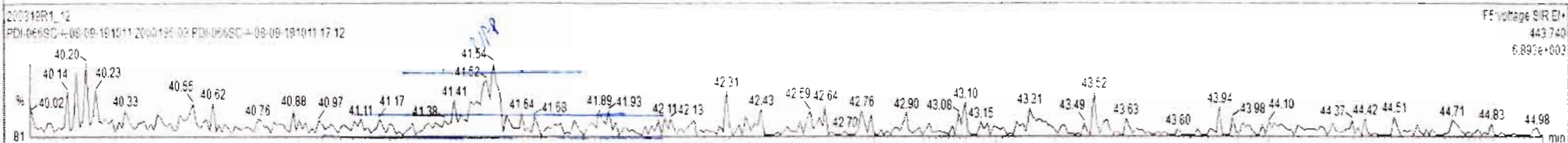
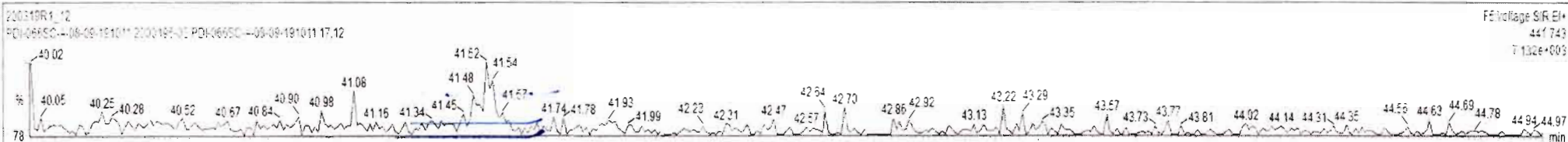
DPE5



200319R1_12 - 2000195-03 PDI-066SC-A-08-09-191011 17 12 - PDI-066SC-A-08-09-191011

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF		NO	0.9468	10.007					0.102	
18	13C-2,3,7,8-TCDD	4.91e5	0.83	NO	1.1842	10.007	25.74	1.929	192	96.7	0.103
19	13C-1,2,3,7,8-PeCDD	3.15e5	0.85	NO	0.8644	10.007	31.05	1.242	170	84.8	0.124
20	13C-1,2,3,4,7,8-HxCDD	2.71e5	1.29	NO	0.7539	10.007	34.48	1.514	163	81.7	0.277
21	13C-1,2,3,6,7,8-HxCDD	1.12e5	1.30	NO	0.6252	10.007	32.56	1.817	168	76.7	0.224

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

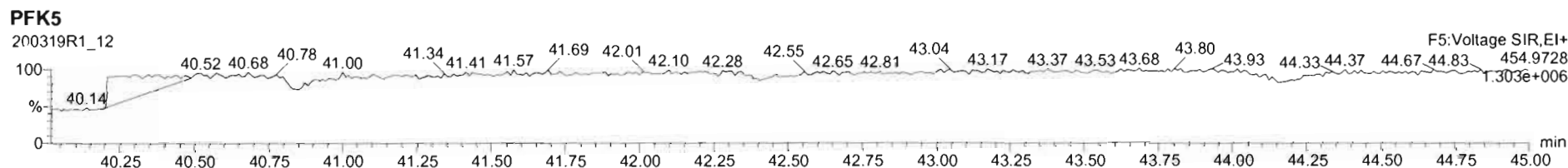
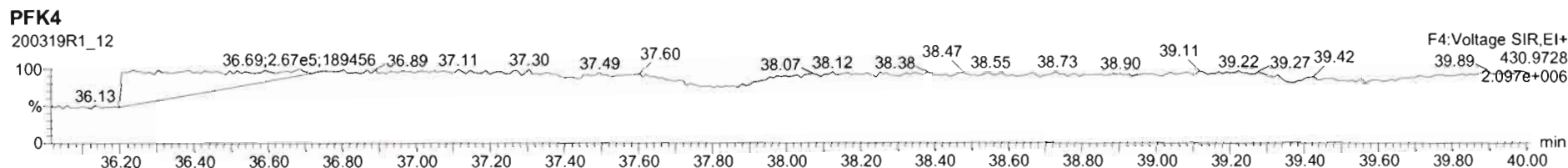
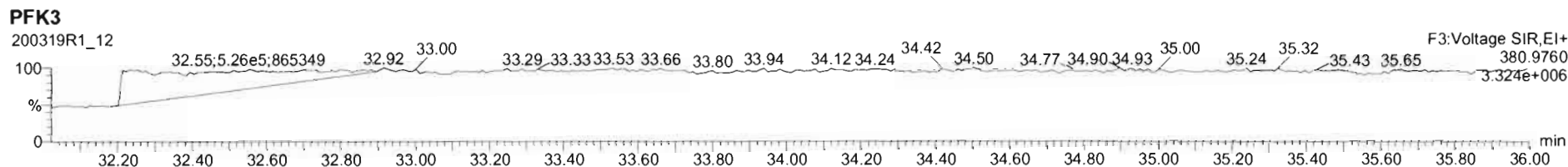
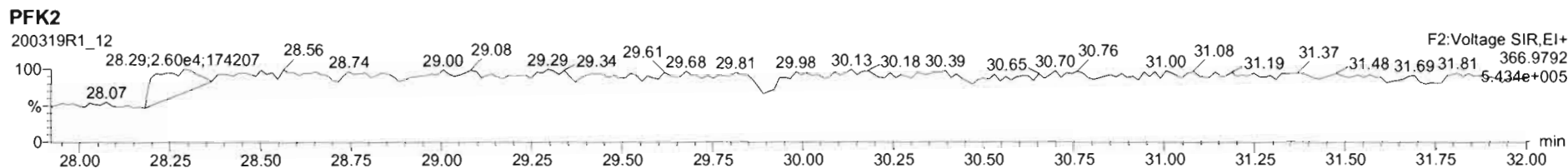
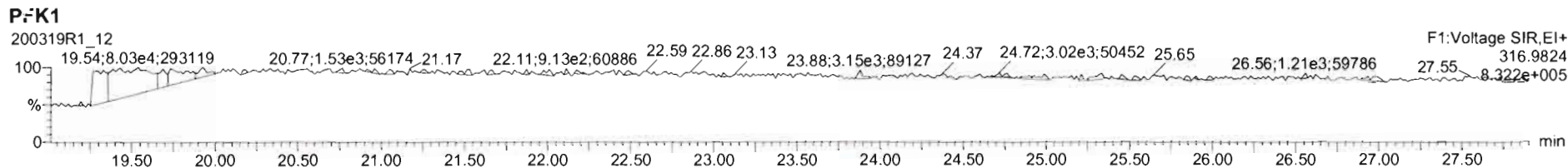


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Last Altered: Friday, March 20, 2020 07:45:25 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

Name: 200319R1_12, Date: 20-Mar-2020, Time: 01:04:01, ID: 2000195-03 PDI-066SC-A-08-09-191011 17.12, Description: PDI-066SC-A-08-09-191011



Dataset: U:\VG12.PRO\Results\200319R1\200319R1-13B.qld

Last Altered: Wednesday, April 01, 2020 1:53:04 PM Pacific Daylight Time

Printed: Wednesday, April 01, 2020 1:54:57 PM Pacific Daylight Time

HZ 4-1-2020 for ISSAC

Q 4/1/20

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010, Task: ST200319R1_2

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD		NO	0.983	10.005					0.115	
2	1,2,3,7,8-PeCDD		NO	0.921	10.005					0.113	
3	1,2,3,4,7,8-HxCDD		NO	1.13	10.005					0.112	
4	1,2,3,6,7,8-HxCDD		NO	0.984	10.005					0.118	
5	1,2,3,7,8,9-HxCDD		NO	0.967	10.005					0.126	
6	1,2,3,4,6,7,8-HpCDD	4.55e3	0.95	NO	1.01	10.005	38.26	1.000	3.5112	0.147	3.51
7	OCDD	3.13e4	0.90	NO	1.05	10.005	41.34	1.000	28.047	0.185	28.0
8	2,3,7,8-TCDF	5.41e2	0.73	NO	0.915	10.005	24.78	1.001	0.15299	0.0874	0.153
9	1,2,3,7,8-PeCDF	3.72e2	1.53	NO	0.959	10.005	29.74	1.001	0.14163	0.0496	0.142
10	2,3,4,7,8-PeCDF			NO	1.00	10.005				0.0861	
11	1,2,3,4,7,8-HxCDF	2.94e2	1.09	NO	1.04	10.005	33.62	1.000	0.13195	0.0277	0.132
12	1,2,3,6,7,8-HxCDF			NO	1.01	10.005				0.0492	
13	2,3,4,6,7,8-HxCDF			NO	1.09	10.005				0.0525	
14	1,2,3,7,8,9-HxCDF	1.12e2	0.87	YES	1.03	10.005	35.19	1.001	0.050197	0.0394	0.0489
15	1,2,3,4,6,7,8-HpCDF	3.70e2	0.86	YES	1.05	10.005	36.88	1.000	0.20997	0.0927	0.190
16	1,2,3,4,7,8,9-HpCDF			NO	1.21	10.005				0.116	
17	OCDF	9.72e2	0.87	NO	0.947	10.005	41.52	1.000	0.69824	0.0762	0.698
18	13C-2,3,7,8-TCDD	4.92e5	0.79	NO	1.18	10.005	25.75	1.029	187.94	94.0	0.422
19	13C-1,2,3,7,8-PeCDD	3.21e5	0.65	NO	0.864	10.005	31.06	1.242	167.97	84.0	0.294
20	13C-1,2,3,4,7,8-HxCDD	2.73e5	1.29	NO	0.754	10.005	34.47	1.014	157.63	78.9	0.377
21	13C-1,2,3,6,7,8-HxCDD	3.31e5	1.28	NO	0.925	10.005	34.57	1.017	155.69	77.9	0.307
22	13C-1,2,3,7,8,9-HxCDD	3.09e5	1.29	NO	0.829	10.005	34.83	1.024	162.16	81.1	0.343
23	13C-1,2,3,4,6,7,8-HpCDD	2.58e5	1.05	NO	0.598	10.005	38.26	1.125	187.35	93.7	0.479
24	13C-OCDD	4.24e5	0.91	NO	0.571	10.005	41.34	1.216	322.79	80.7	0.555
25	13C-2,3,7,8-TCDF	7.73e5	0.78	NO	1.09	10.005	24.75	0.989	168.39	84.2	0.389
26	13C-1,2,3,7,8-PeCDF	5.47e5	1.66	NO	0.876	10.005	29.71	1.187	148.21	74.1	0.331
27	13C-2,3,4,7,8-PeCDF	5.26e5	1.61	NO	0.844	10.005	30.74	1.229	148.17	74.1	0.343
28	13C-1,2,3,4,7,8-HxCDF	4.29e5	0.51	NO	1.00	10.005	33.62	0.989	186.62	93.4	0.456
29	13C-1,2,3,6,7,8-HxCDF	4.56e5	0.53	NO	1.12	10.005	33.74	0.992	177.57	88.8	0.408
30	13C-2,3,4,6,7,8-HxCDF	4.36e5	0.51	NO	1.04	10.005	34.30	1.009	183.11	91.6	0.441

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-13B.qld

Last Altered: Wednesday, April 01, 2020 1:53:04 PM Pacific Daylight Time

Printed: Wednesday, April 01, 2020 1:54:57 PM Pacific Daylight Time

Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010, Task: ST200319R1_2

	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	3.76e5	0.52	NO	0.873	10.005	35.17	1.034	187.19	93.6	0.523	
32	13C-1,2,3,4,6,7,8-HpCDF	3.36e5	0.45	NO	0.771	10.005	36.87	1.084	189.42	94.8	0.520	
33	13C-1,2,3,4,7,8,9-HpCDF	2.38e5	0.42	NO	0.519	10.005	38.91	1.144	199.19	99.6	0.772	
34	13C-OCDF	5.88e5	0.88	NO	0.696	10.005	41.51	1.221	366.97	91.8	0.433	
35	37Cl-2,3,7,8-TCDD	1.91e5			1.17	10.005	25.76	1.030	73.459	91.9	0.0985	
36	13C-1,2,3,4-TCDD	4.42e5	0.82	NO	1.00	10.005	25.02	1.000	199.90	100	0.500	
37	13C-1,2,3,4-TCDF	8.42e5	0.82	NO	1.00	10.005	23.07	1.000	199.90	100	0.424	
38	13C-1,2,3,4,6,9-HxCDF	4.60e5	0.52	NO	1.00	10.005	34.00	1.000	199.90	100	0.457	
39	Total Tetra-Dioxins				0.983	10.005			0.00000		0.115	0.380
40	Total Penta-Dioxins				0.921	10.005			0.10878		0.113	0.280
41	Total Hexa-Dioxins				0.984	10.005			1.6561		0.123	1.84
42	Total Hepta-Dioxins				1.01	10.005			8.1756		0.147	8.18
43	Total Tetra-Furans				0.915	10.005			0.30234		0.0874	0.610
44	1st Func. Penta-Furans				0.959	10.005					0.0235	
45	Total Penta-Furans				0.959	10.005			0.14163		0.0481	0.142
46	Total Hexa-Furans				1.09	10.005			0.20063		0.0289	0.337
47	Total Hepta-Furans				1.05	10.005			0.00000		0.0561	0.555

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-13B.qld

Last Altered: Wednesday, April 01, 2020 1:53:04 PM Pacific Daylight Time

Printed: Wednesday, April 01, 2020 1:54:57 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010,

Task: ST200319R1_2

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.-	EMPC-	DL
1	Total Tetra-Dioxins	21.83	2.529e3	2.806e3	1.721e2	2.123e2	0.81	NO	0.000e0	0.00000	0.15891	0.115
2	Total Tetra-Dioxins	23.25	3.058e3	3.913e3	2.948e2	3.020e2	0.98	YES	0.000e0	0.00000	0.22094	0.115

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.-	EMPC-	DL
1	Total Penta-Dioxins	28.74	2.648e3	2.878e3	1.325e2	1.553e2	0.85	YES	0.000e0	0.00000	0.17127	0.113
2	Total Penta-Dioxins	29.23	1.729e3	1.514e3	6.676e1	9.405e1	0.71	NO	1.608e2	0.10878	0.10878	0.113

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.-	EMPC-	DL
1	Total Hexa-Dioxins	33.00	1.643e4	1.270e4	8.558e2	6.220e2	1.38	NO	1.478e3	0.98499	0.98499	0.123
2	Total Hexa-Dioxins	33.60	4.316e3	2.385e3	2.055e2	1.252e2	1.64	YES	0.000e0	0.00000	0.18698	0.123
3	Total Hexa-Dioxins	33.83	1.012e4	7.585e3	5.512e2	4.556e2	1.21	NO	1.007e3	0.67107	0.67107	0.123

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.-	EMPC-	DL
1	Total Hepta-Dioxins	37.25	4.327e4	4.229e4	3.033e3	3.018e3	1.00	NO	6.051e3	4.6644	4.6644	0.147
2	1,2,3,4,6,7,8-HpCDD	38.26	2.808e4	3.040e4	2.221e3	2.334e3	0.95	NO	4.555e3	3.5112	3.5112	0.147

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.-	EMPC-	DL
1	Total Tetra-Furans	20.45	6.111e3	6.098e3	5.064e2	5.815e2	0.87	NO	0.000e0	0.00000	0.30750	0.0874
2	Total Tetra-Furans	23.68	3.228e3	3.668e3	2.460e2	2.825e2	0.87	NO	5.284e2	0.14936	0.14936	0.0874
3	2,3,7,8-TCDF	24.78	3.780e3	4.863e3	2.290e2	3.123e2	0.73	NO	5.413e2	0.15299	0.15299	0.0874

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-13B.qld

Last Altered: Wednesday, April 01, 2020 1:53:04 PM Pacific Daylight Time

Printed: Wednesday, April 01, 2020 1:54:57 PM Pacific Daylight Time

Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010, Task: ST200319R1_2

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
1,2,3,7,8-PeCDF	29.74	4.490e3	2.869e3	2.247e2	1.472e2	1.53	NO	3.719e2	0.14163	0.14163	0.0496

Hexa-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
Total Hexa-Furans	32.62	2.085e3	1.790e3	8.863e1	7.061e1	1.26	NO	1.592e2	0.068685	0.068685	0.0289
Total Hexa-Furans	33.17	4.246e3	1.114e3	1.167e2	6.417e1	1.82	YES	0.000e0	0.00000	0.061996	0.0289
1,2,3,4,7,8-HxCDF	33.62	3.395e3	2.123e3	1.534e2	1.408e2	1.09	NO	2.941e2	0.13195	0.13195	0.0277
1,2,3,7,8,9-HxCDF	35.19	1.238e3	1.539e3	5.224e1	6.009e1	0.87	YES	1.123e2	0.00000	0.048885	0.0394
Total Hexa-Furans	35.23	1.278e3	8.590e2	4.108e1	2.607e1	1.58	YES	0.000e0	0.00000	0.025187	0.0289

Hepta-Furans

Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1,2,3,4,6,7,8-HpCDF	36.88	3.258e3	3.921e3	1.709e2	1.988e2	0.86	YES	3.697e2	0.00000	0.19040	0.0927
Total Hepta-Furans	37.46	4.681e3	5.545e3	2.799e2	3.365e2	0.83	YES	0.000e0	0.00000	0.36502	0.110

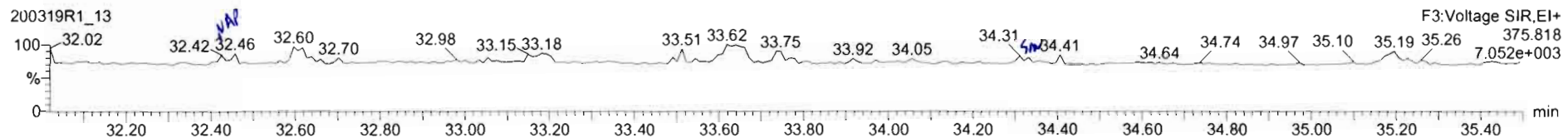
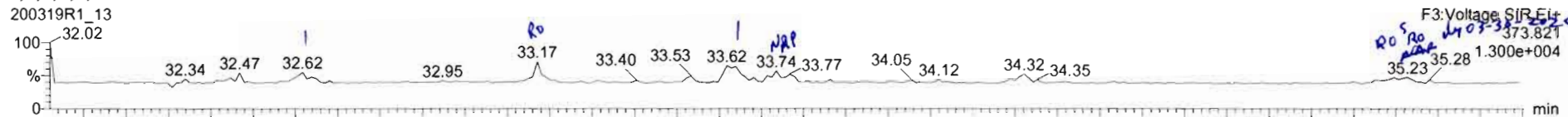
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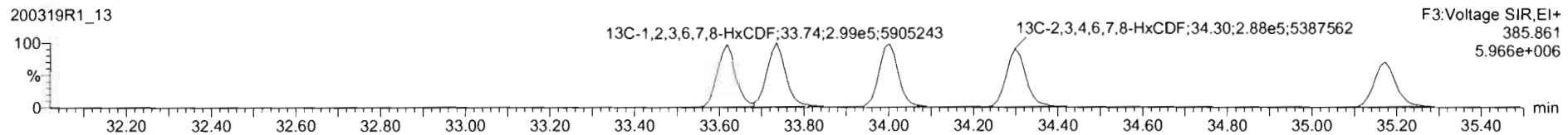
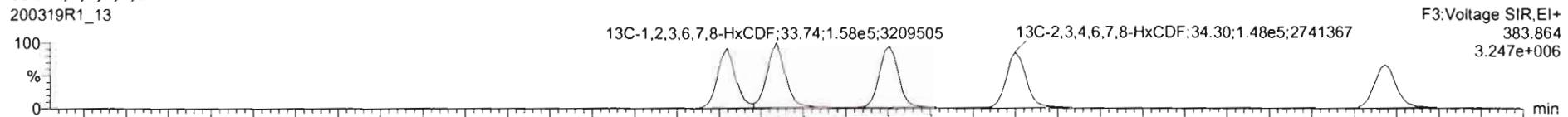
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Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010

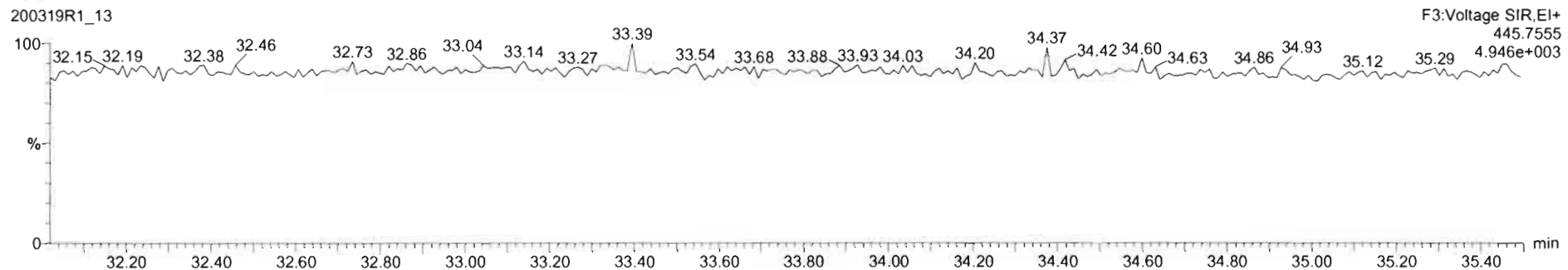
1,2,3,4,7,8-HxCDF



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

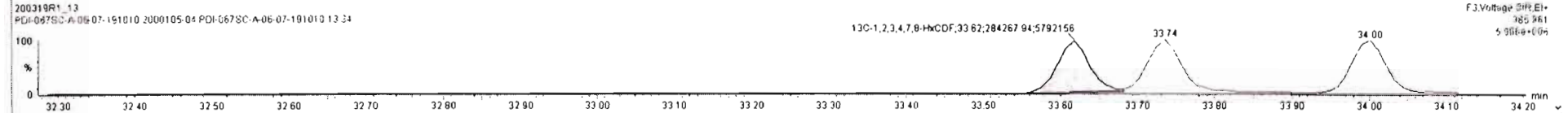
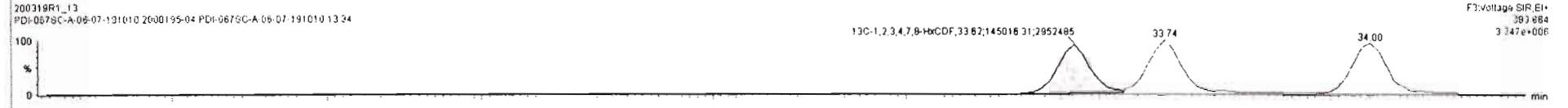
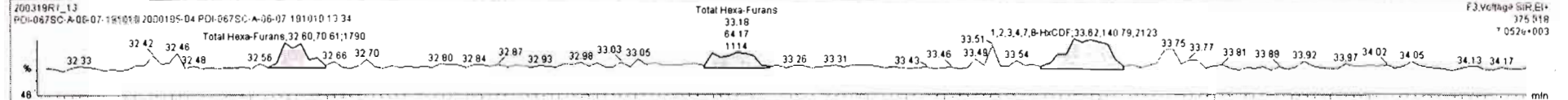
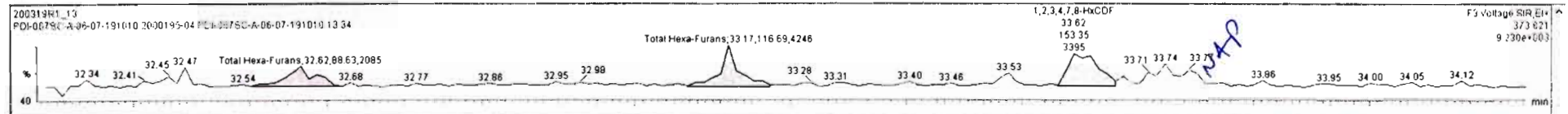


DPE3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.90	10.005					0.115	
2 1,2,3,7,8-PeCDD			NO	0.92	10.005					0.113	
3 1,2,3,4,7,8-HxCDD			NO	1.13	10.005					0.112	
4 1,2,3,6,7,8-HxCDD			NO	0.98	10.005					0.118	
5 1,2,3,7,8-HxCDD			NO	0.97	10.005					0.126	
6 1,2,3,4,6,7,8-HpCDD	4.55e3	0.95	NO	1.01	10.005	38.26	1.000	3.51		0.147	3.51
7 OCDD	3.13e4	0.90	NO	1.05	10.005	41.34	1.000	28.0		0.185	28.0
8 2,3,7,8-TCDF	5.41e2	0.73	NO	0.82	10.005	24.78	1.001	0.153		0.0874	0.153
9 1,2,3,7,8-PeCDF	3.72e2	1.53	NO	0.96	10.005	29.74	1.001	0.142		0.0496	0.142
10 1,2,3,4,7,8-PeCDF			NO	1.00	10.005					0.0861	

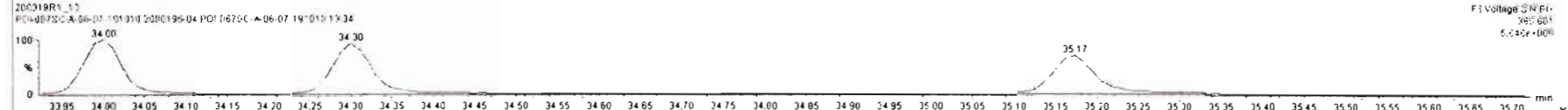
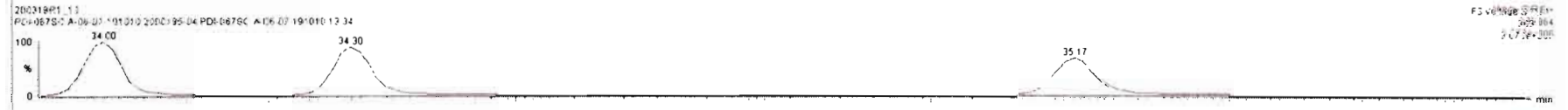
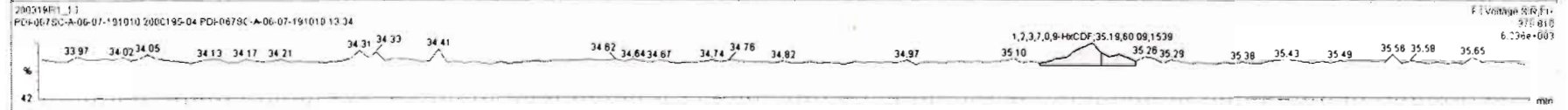
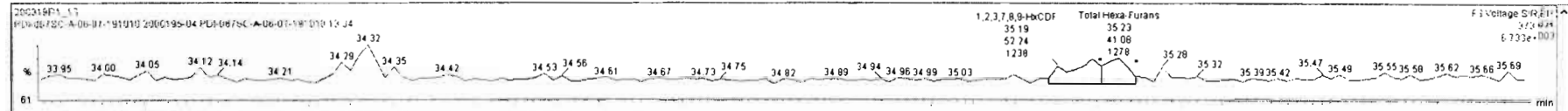
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,7,8-HxCDF	33.62	1.534e2	1.408e2	1.09	NO	0.13195	0.13195
2 Total Hexa-Furans	33.17	1.167e2	6.417e1	1.82	YES	0.061996	0.00000
3 Total Hexa-Furans	32.62	8.863e1	7.061e1	1.26	NO	0.068685	0.068685
4 Total Hexa-Furans	35.23	4.106e1	2.607e1	1.58	YES	0.025187	0.00000
5 1,2,3,7,8,9-HxCDF	35.19	5.274e1	6.009e1	0.87	YES	0.048885	0.00000



200319R1_13 - 2000195-04 PDI-0675C-A-06-07-191010 13 34 - PDI-0675C-A-06-07-191010

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.98	10.005					0.115	
2 1,2,3,7,8-PeCDD			NO	0.82	10.005					0.113	
3 1,2,3,4,7,8-HxCDD			NO	1.13	10.005					0.112	
4 1,2,3,6,7,8-HxCDD			NO	0.98	10.005					0.118	
5 1,2,3,7,8,9-HxCDD			NO	0.97	10.005					0.128	
6 1,2,3,4,6,7,8-HpCDD	4.65e3	0.95	NO	1.01	10.005	38.26	1.000	3.51		0.147	3.51
7 OCDD	3.13e4	0.90	NO	1.05	10.005	41.34	1.000	29.0		0.185	29.0
8 2,3,7,8-TCDF	5.41e2	0.73	NO	0.92	10.005	24.78	1.001	0.153		0.0874	0.153
9 1,2,3,7,8-PeCDF	3.72e2	1.53	NO	0.88	10.005	29.74	1.001	0.142		0.0498	0.142
10 1,2,3,4,7,8-PeCDF			NO	1.00	10.005					0.0861	

Name	RT	int Resp	nl2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,7,8-HxCDF	33.62	1.534e2	1.409e2	1.09	NO	0.13195	0.13195
2 Total Hexa-Furans	33.17	1.167e2	6.417e1	1.82	YES	0.061995	0.00000
3 Total Hexa-Furans	32.62	9.863e1	7.061e1	1.26	NO	0.069685	0.069685
4 Total Hexa-Furans	35.23	4.105e1	2.607e1	1.58	YES	0.025187	0.00000
5 1,2,3,7,8,9-HxCDF	35.19	5.224e1	6.009e1	0.87	YES	0.048885	0.00000

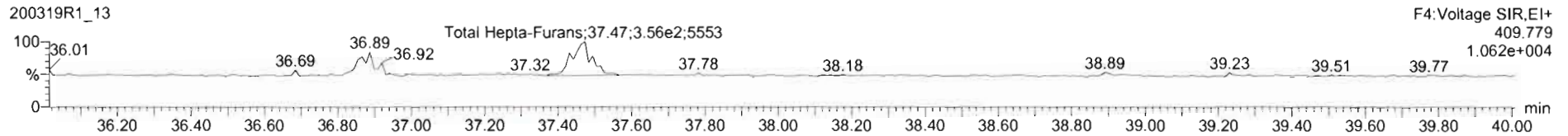
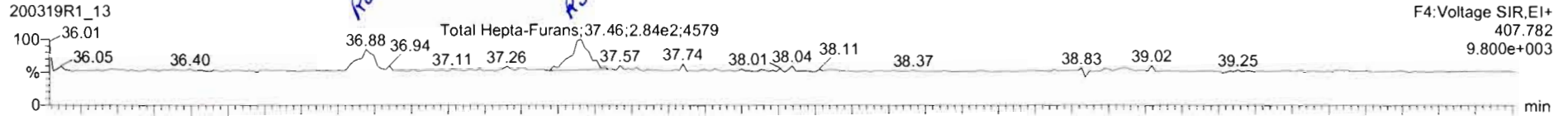


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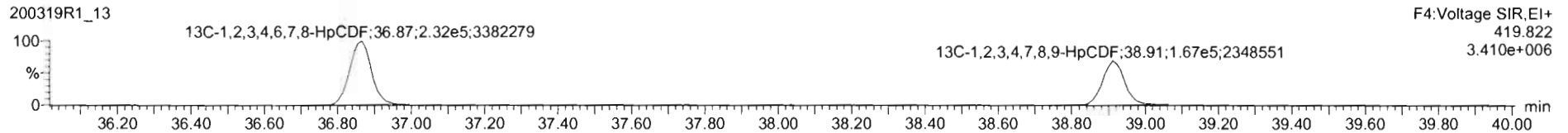
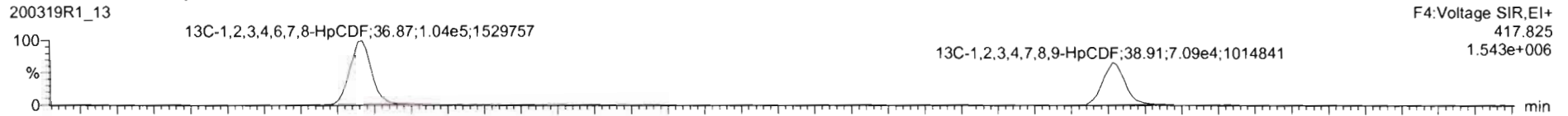
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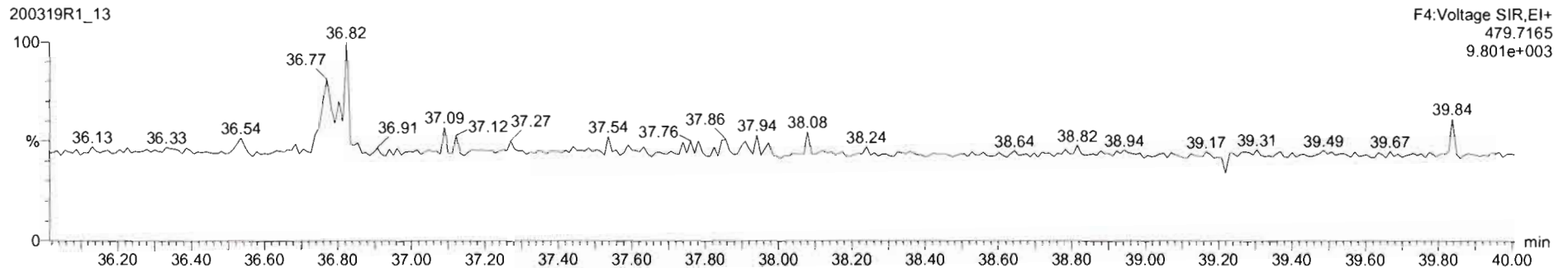
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13C-1,2,3,4,6,7,8-HpCDF

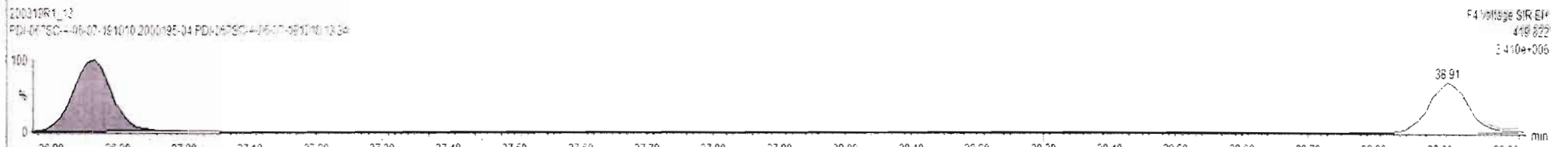
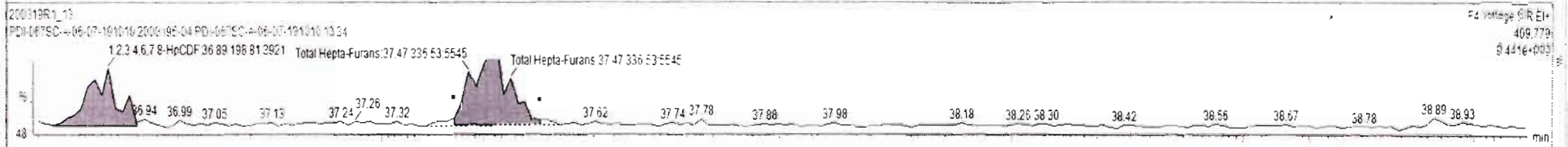
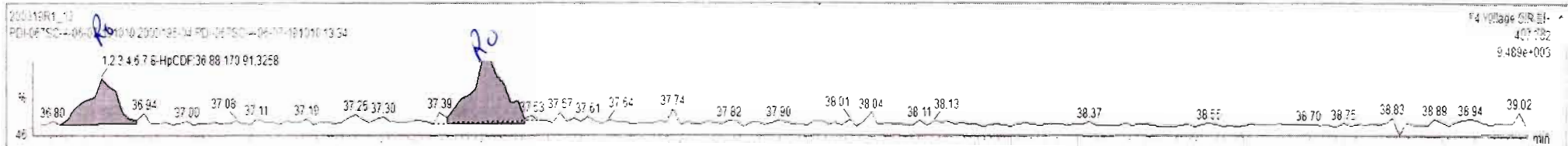


DPE4



Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc.	%Rec	BL	EMPC
45 Total Penta-Furans				0.9594	10.00E			0.142		0.3431	0.142
46 Total Hexa-Furans				1.0820	10.00E			0.187		0.0289	0.225
47 Total Hepta-Furans				1.0483	10.00E			0.000		0.0561	0.555
48 P<K1											
49 P<K2											

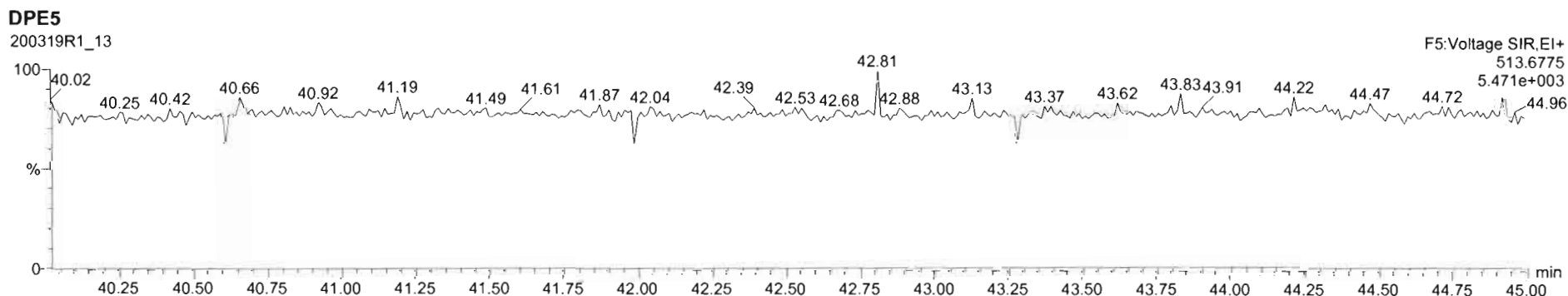
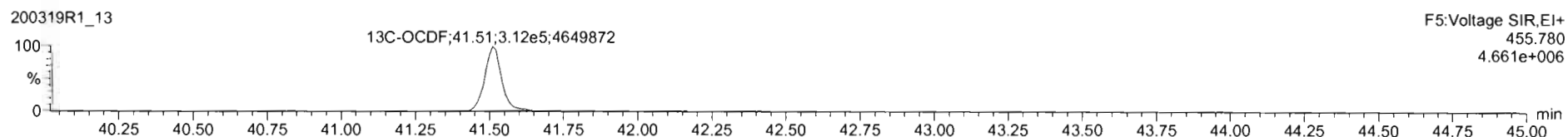
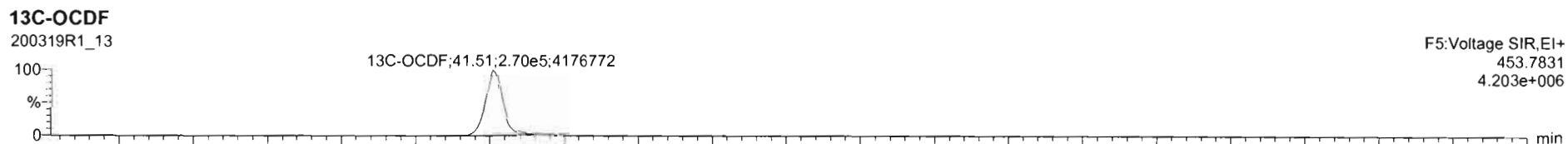
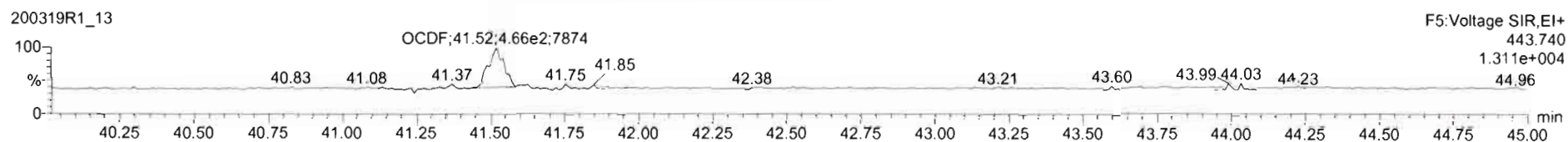
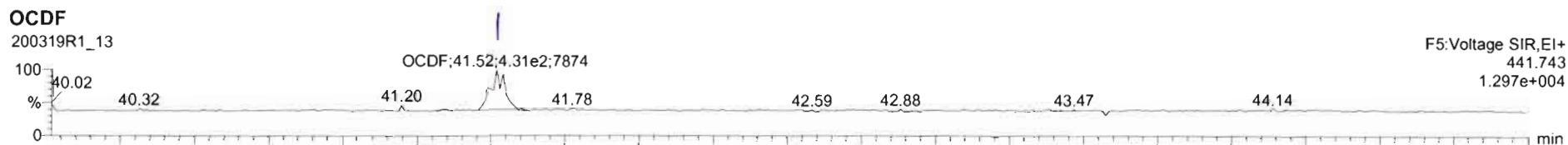
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.88	1.709e2	1.988e2	0.86	YES	0.19040	0.00000
2 Total Hepta-Furans	37.48	2.799e2	3.383e2	0.83	YES	0.36502	0.00000



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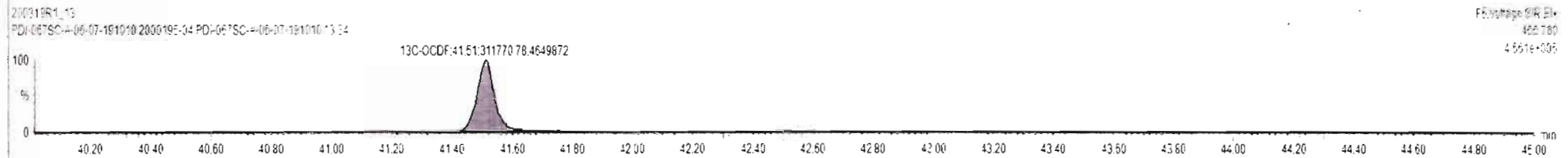
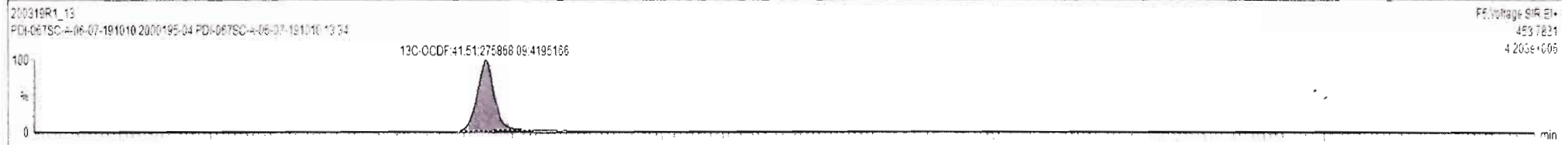
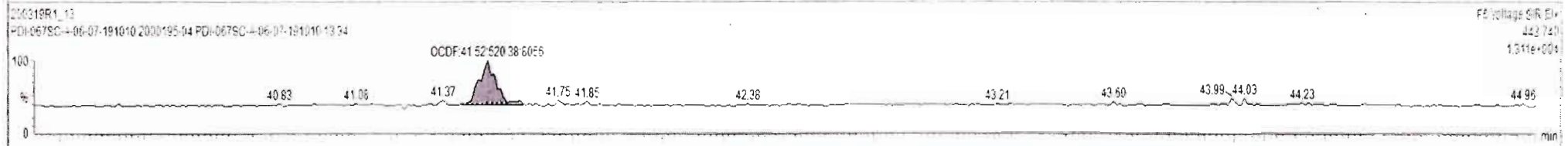
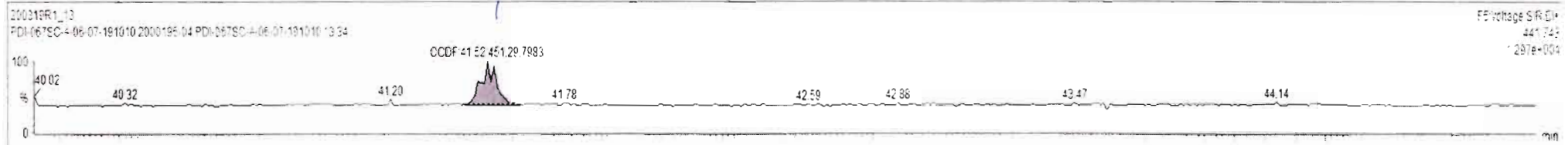
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200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCCF	9.72e2	0.87	NO	0.9468	10.005	41.52	1.000	0.698	0.0762	0.698
18	13C-2,2,7,8- ¹³ CDD	4.92e5	0.79	NC	1.1842	10.005	25.75	1.025	100	94.0	0.422
19	13C-1,2,3,7,8-PeCDD	2.21e5	0.85	NO	0.8844	10.005	21.06	1.242	100	84.0	0.294
20	13C-1,2,3,4,7,8-HxCDD	2.72e5	1.25	NO	0.7529	10.005	24.47	1.014	100	78.9	0.277
21	13C-1,2,3,6,7,8-HxCDD	2.11e5	1.26	NO	0.8954	10.005	24.47	1.017	100	77.0	0.287

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

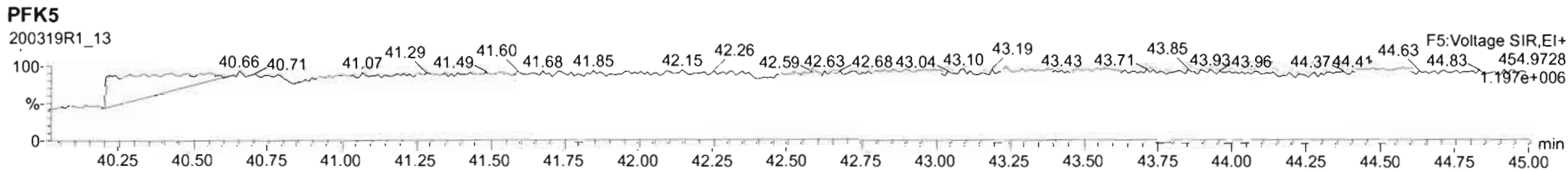
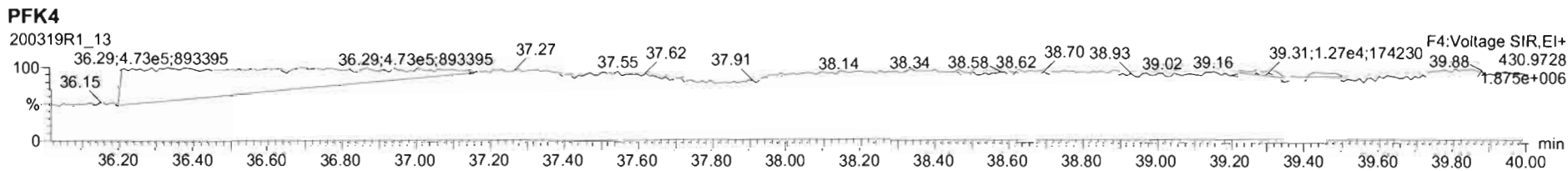
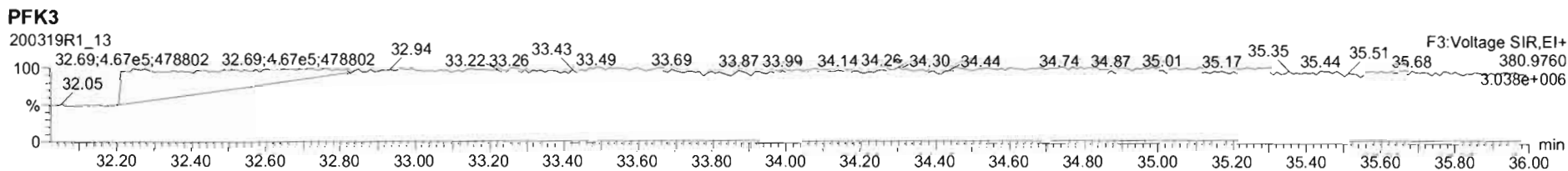
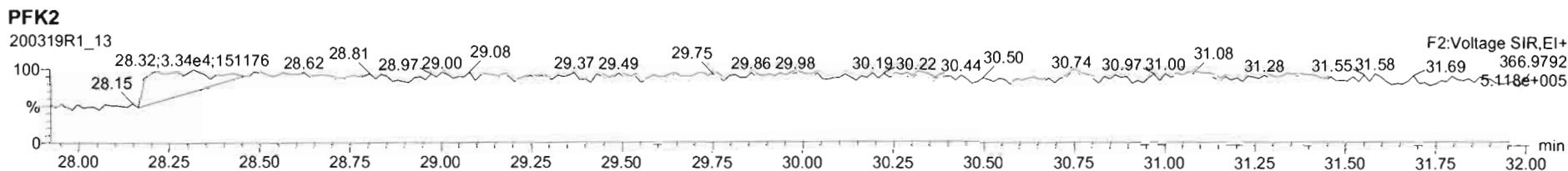
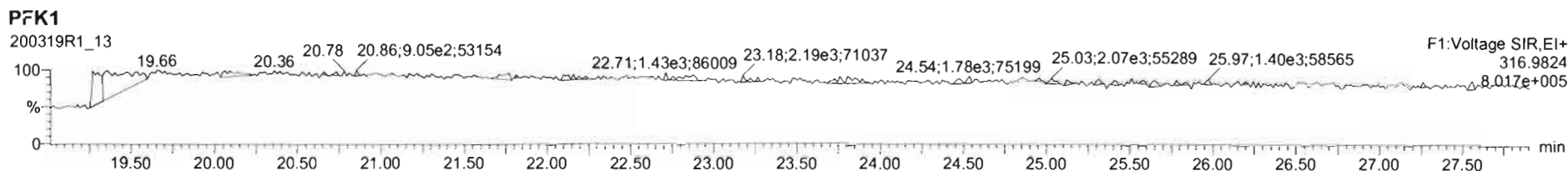


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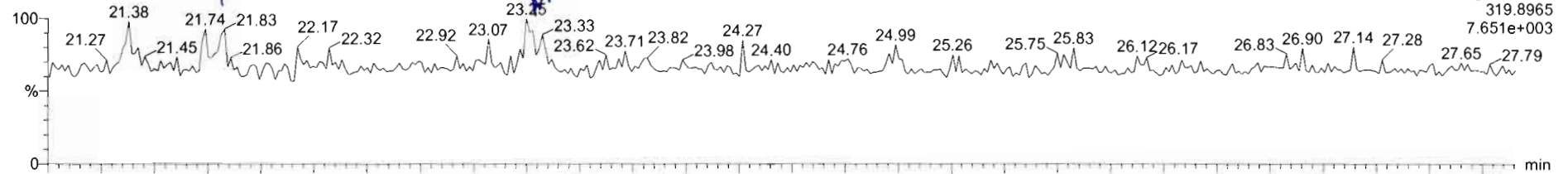
** July 03-30-2020*

July 03-25-2020

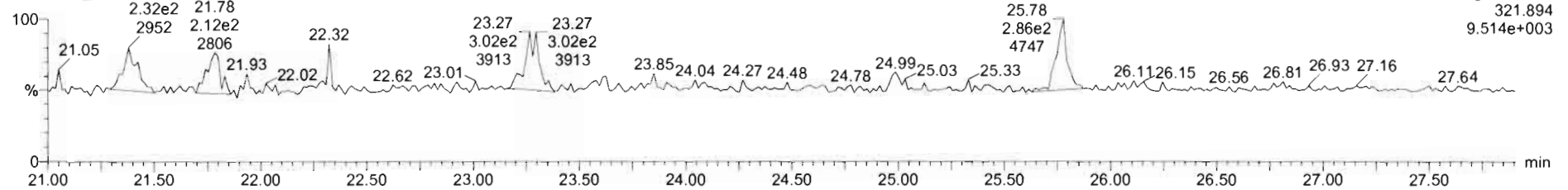
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2,3,7,8-TCDD

200319R1_13

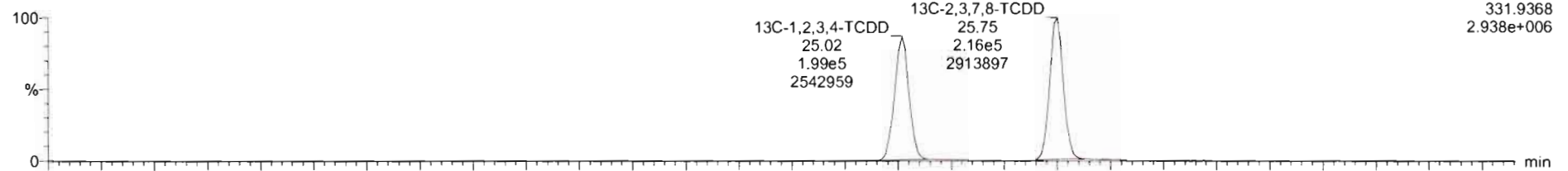


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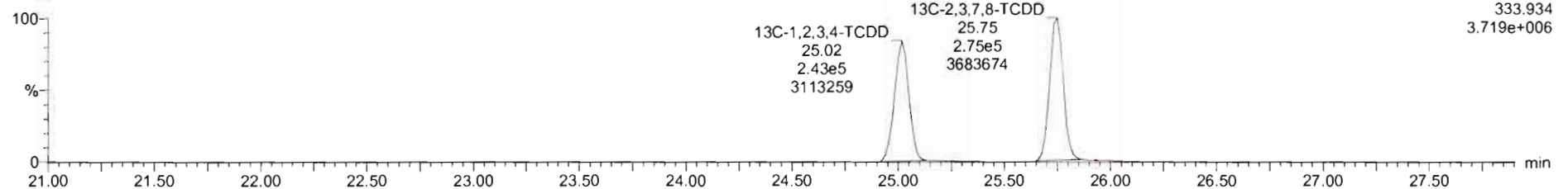


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200319R1_13



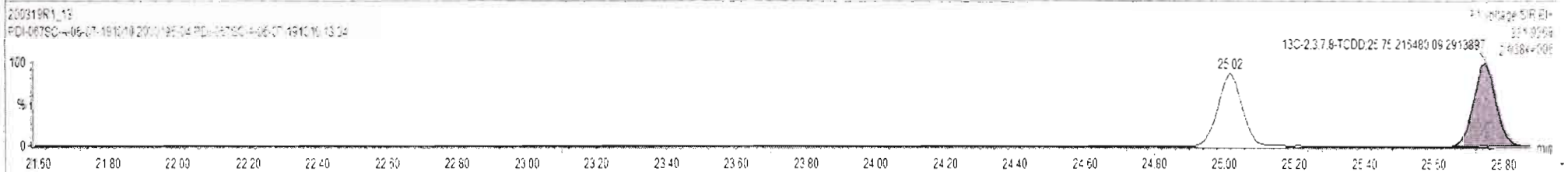
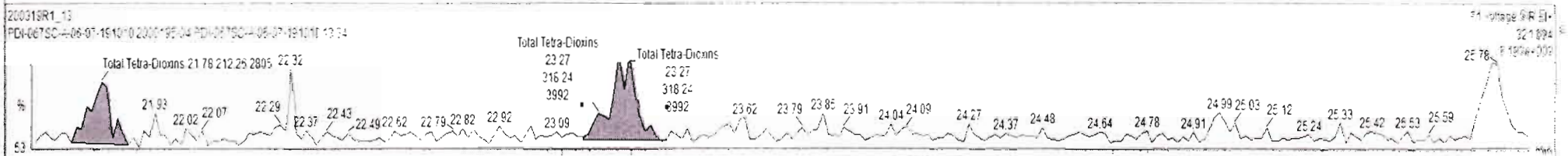
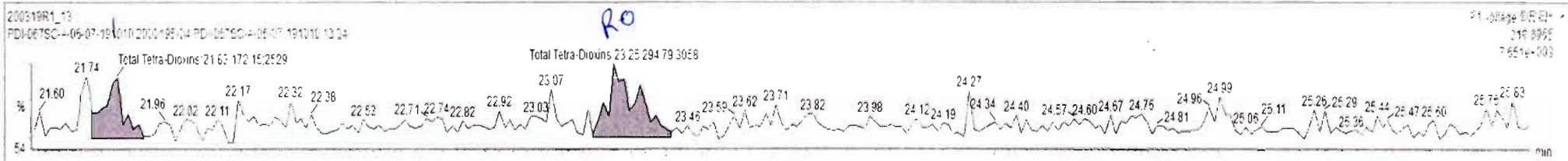
200319R1_13



200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.005			0.090		0.115	0.392
40 Total Penta-Dioxins				0.5312	10.005			0.090		0.112	0.221

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.83	1.721e2	2.120e2	0.81	NO	0.15891	0.00000
2 Total Tetra-Dioxins	22.26	2.949e2	3.182e2	0.93	YES	0.27225	0.00000



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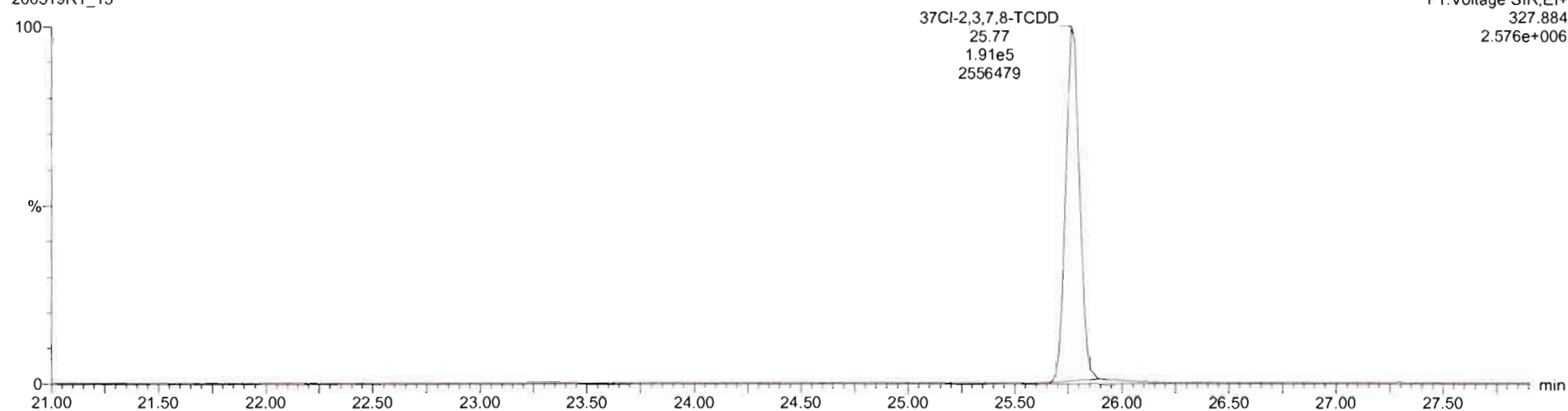
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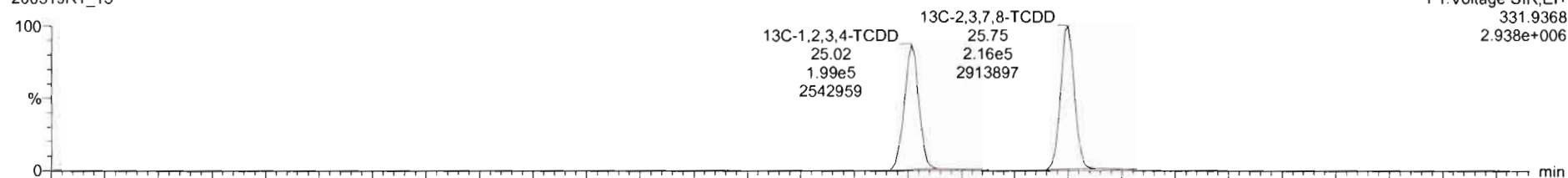
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200319R1_13

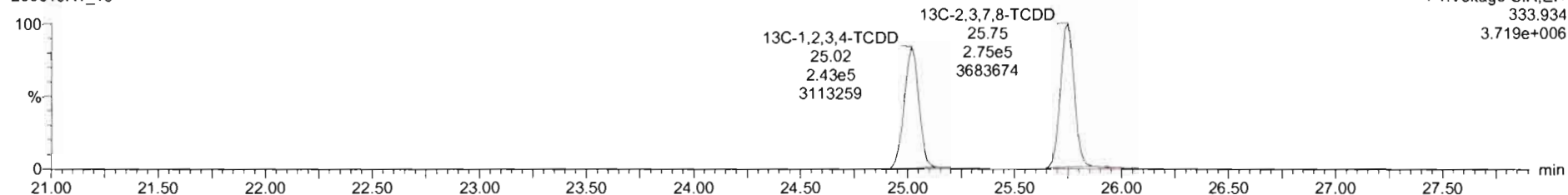


13C-1,2,3,4-TCDD

200319R1_13



200319R1_13



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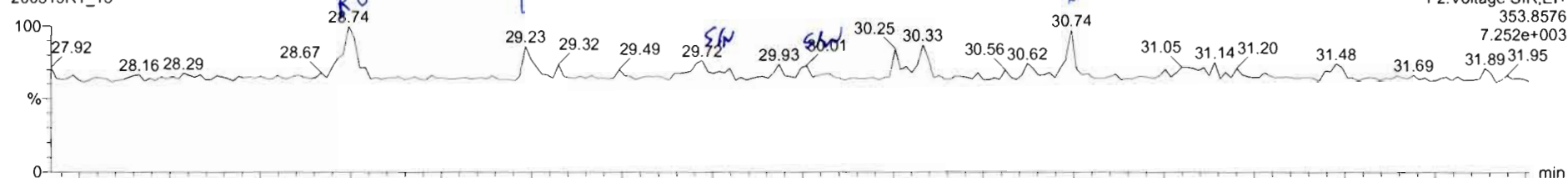
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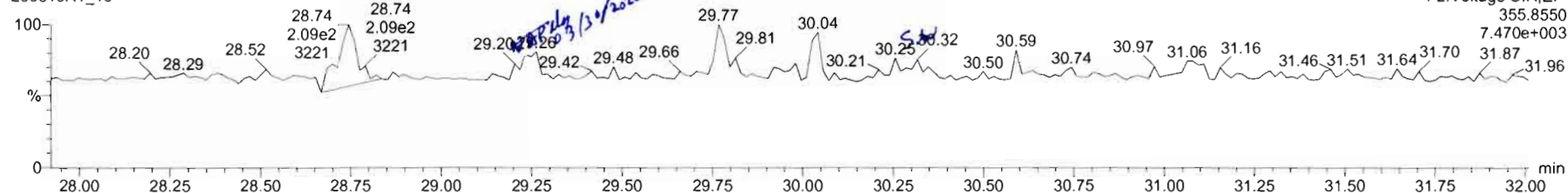
1,2,3,7,8-PeCDD

200319R1_13



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7.252e+003

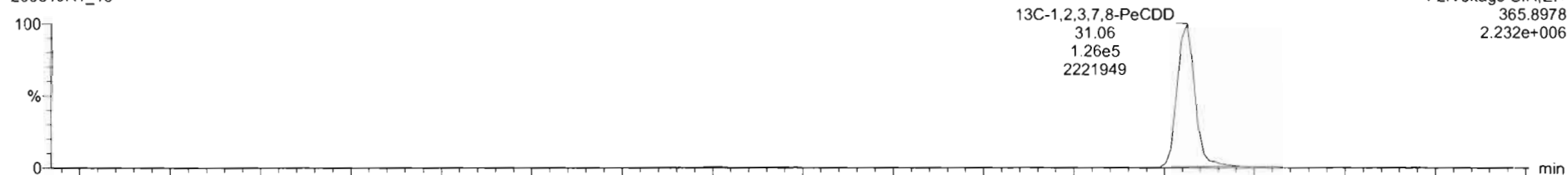
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7.470e+003

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

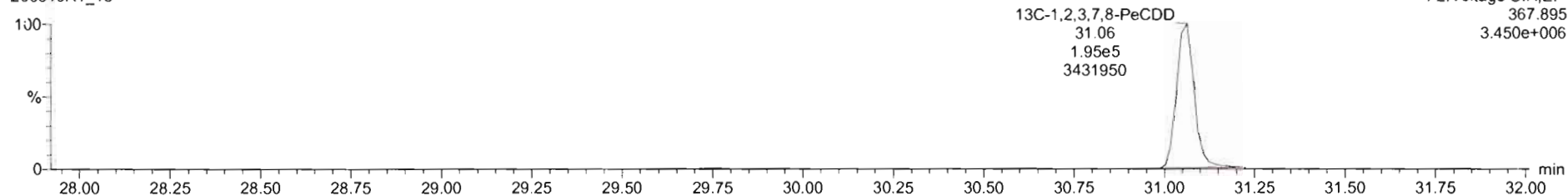
200319R1_13



13C-1,2,3,7,8-PeCDD
31.06
1.26e5
2221949

F2:Voltage SIR,EI+
365.8978
2.232e+006

200319R1_13



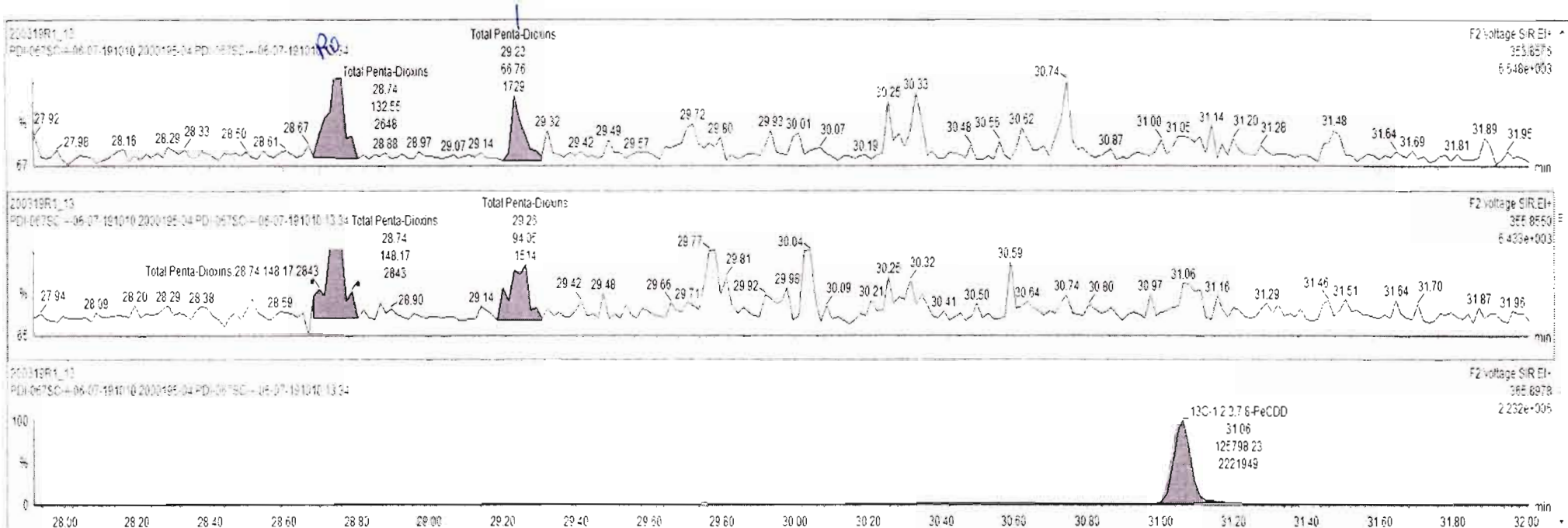
13C-1,2,3,7,8-PeCDD
31.06
1.95e5
3431950

F2:Voltage SIR,EI+
367.895
3.450e+006

200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

Name	Resp	RA	nly	RRF	wt%vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5835	10.005			0.000		0.115	0.192
40 Total Penta-Dioxins				0.9212	10.005			0.109		0.113	0.272

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	28.74	1.321e2	1.422e2	0.89	YES	0.0017	0.0000
2 Total Penta-Dioxins	29.23	6.677e1	6.405e1	0.71	NO	0.13975	0.10278



Dataset: Untitled

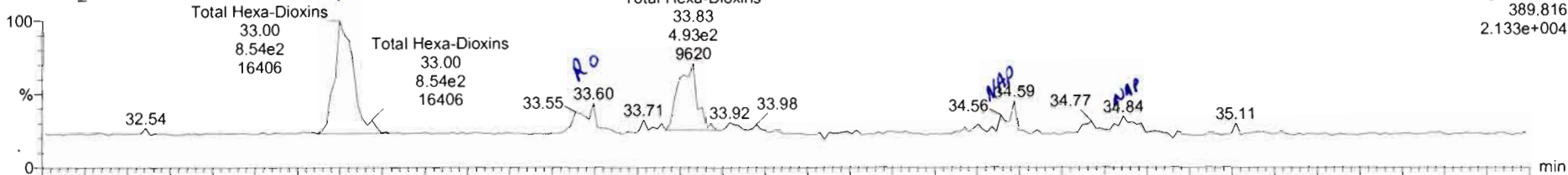
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

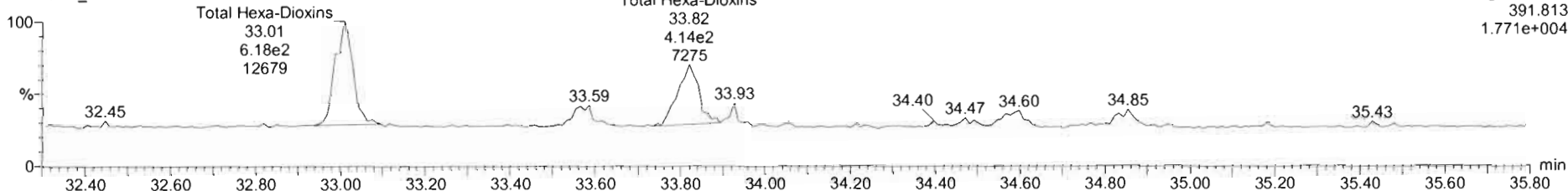
Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010

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

200319R1_13

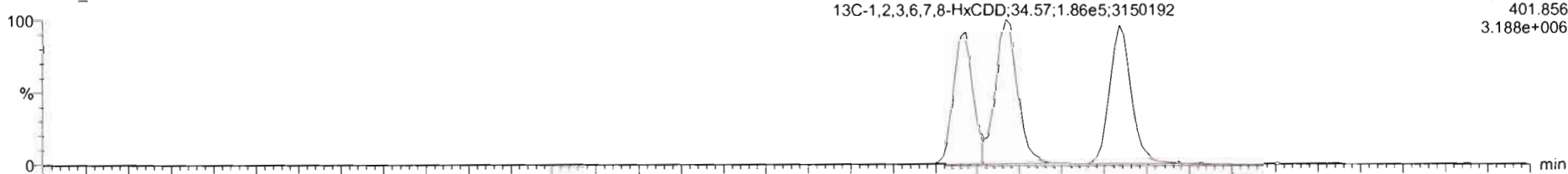


200319R1_13

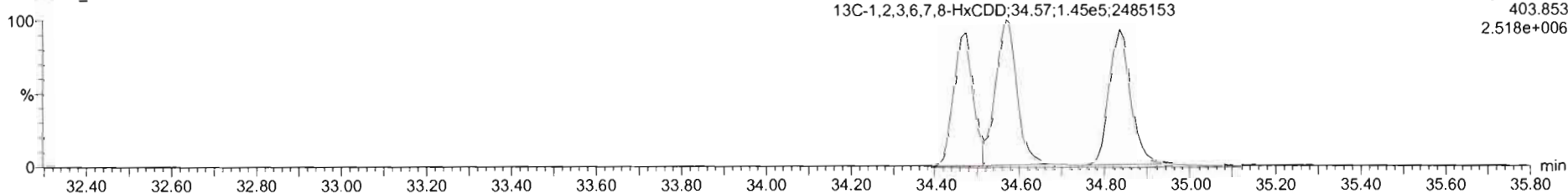


13C-1,2,3,4,7,8-HxCDD

200319R1_13



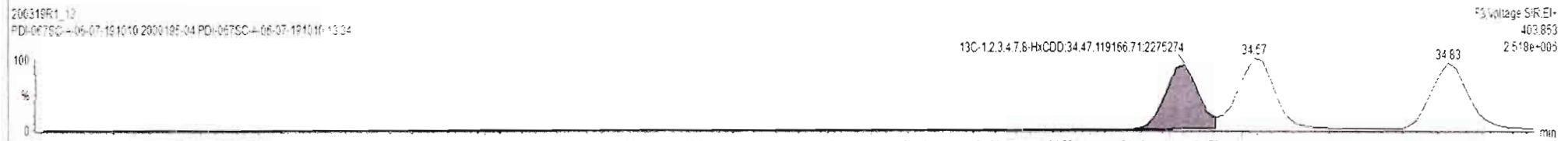
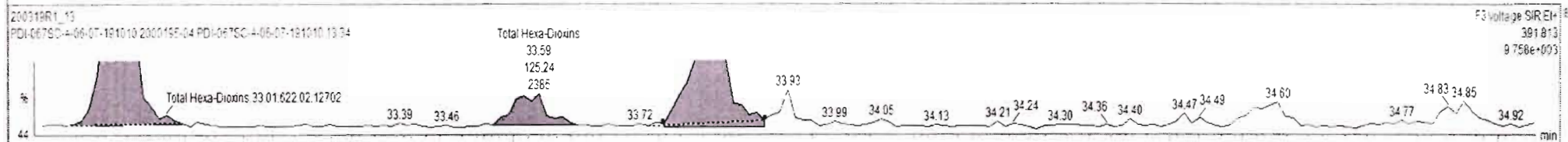
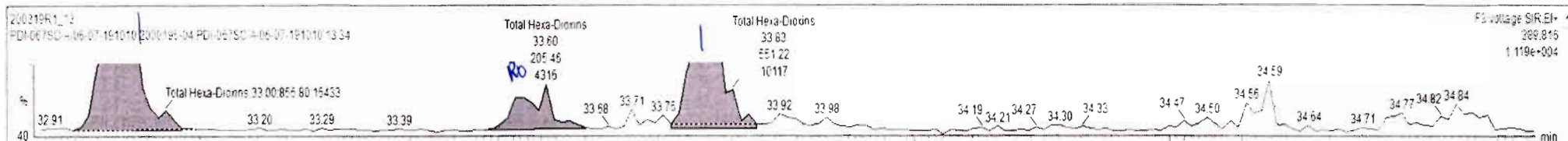
200319R1_13



200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5825	10.005					0.0630	
40 Total Penta-Dioxins				0.9212	10.005			0.000		0.0420	0.183
41 Total Hexa-Dioxins				0.9844	10.005			1.66		0.123	1.84
42 Total Hepta-Dioxins				1.0021	10.005			3.45		0.145	3.45
43 Total Octa-Dioxins				0.0142	10.005			0.247		0.022	0.642

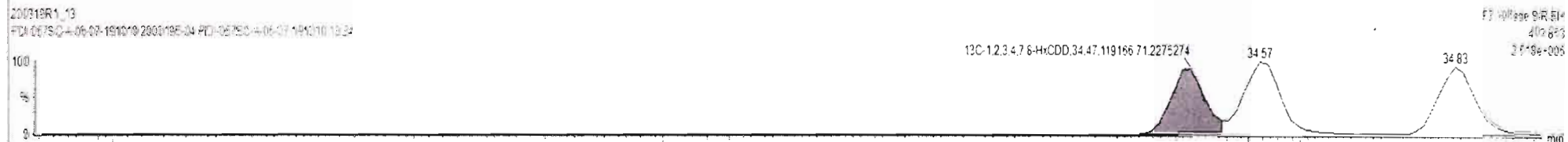
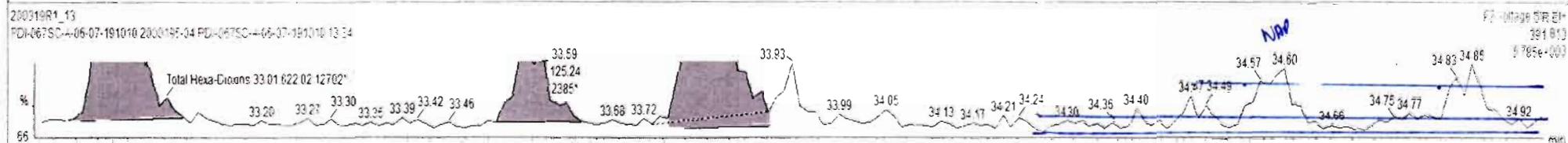
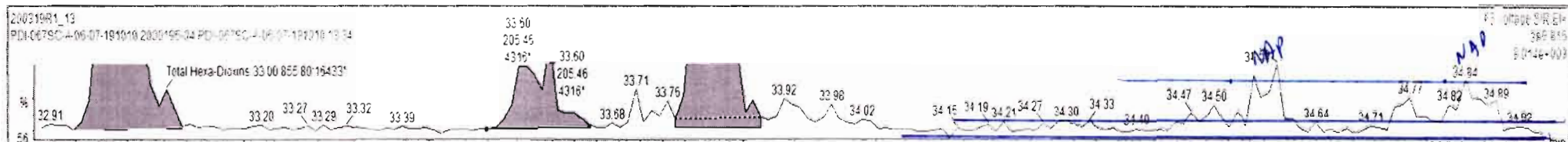
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.00	2.553e2	6.220e2	1.30	HO	0.93499	0.93499
2 Total Hexa-Dioxins	33.60	2.015e2	1.252e2	1.64	YES	0.18698	0.00000
3 Total Hexa-Dioxins	33.83	4.512e2	4.456e2	1.21	HO	0.67107	0.67107



200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.005					0.0680	
40 Total Penta-Dioxins				0.9212	10.005			0.006		0.0420	0.183
41 Total Hexa-Dioxins				0.9844	10.005			1.65		0.123	1.65
42 Total Hepta-Dioxins				1.0061	10.005			6.46		0.145	2.46
43 Total Tetra-Furans				0.9152	10.005			0.249		0.0372	0.442

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.00	8.542e2	6.181e2	1.38	NO	0.95127	0.98127
2 Total Hexa-Dioxins	33.83	5.512e2	4.504e2	1.22	NO	0.66756	0.66756



Dataset: Untitled

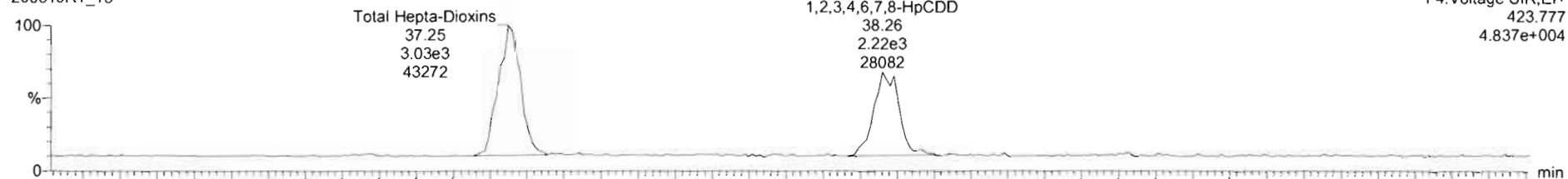
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Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010

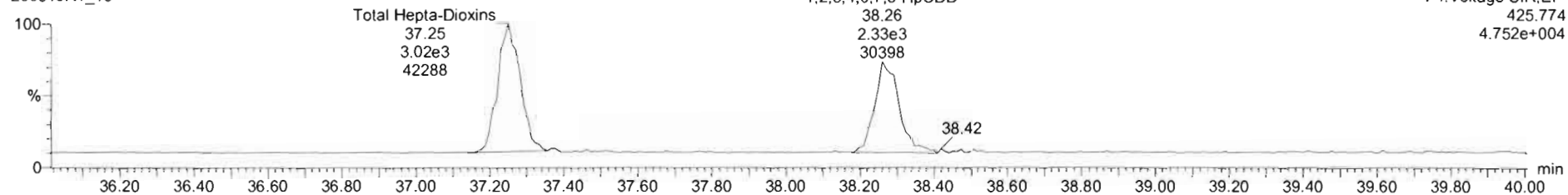
1,2,3,4,6,7,8-HpCDD

200319R1_13



F4:Voltage SIR,EI+
423.777
4.837e+004

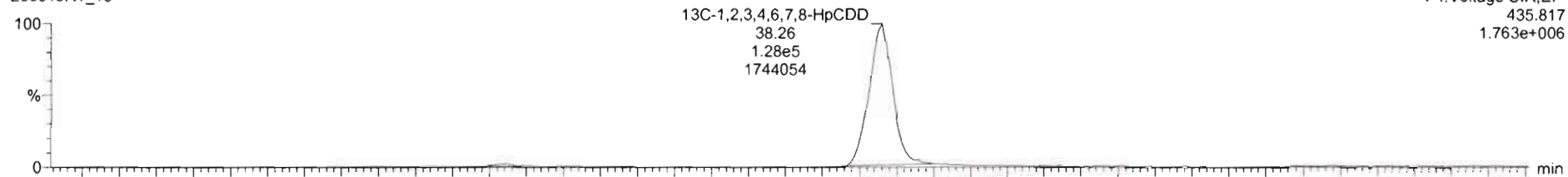
200319R1_13



F4:Voltage SIR,EI+
425.774
4.752e+004

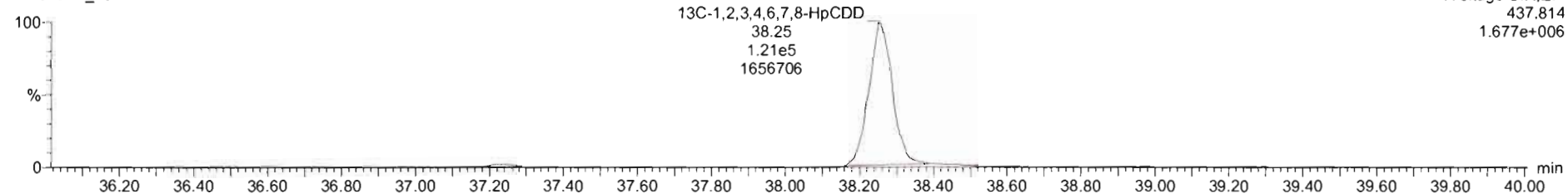
13C-1,2,3,4,6,7,8-HpCDD

200319R1_13



F4:Voltage SIR,EI+
435.817
1.763e+006

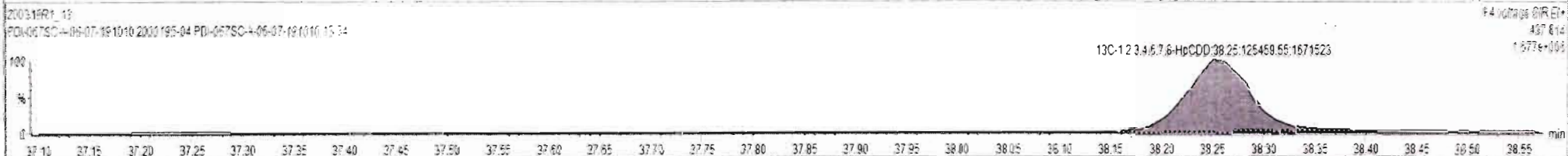
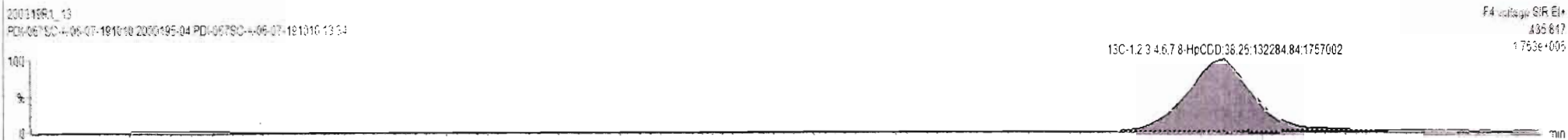
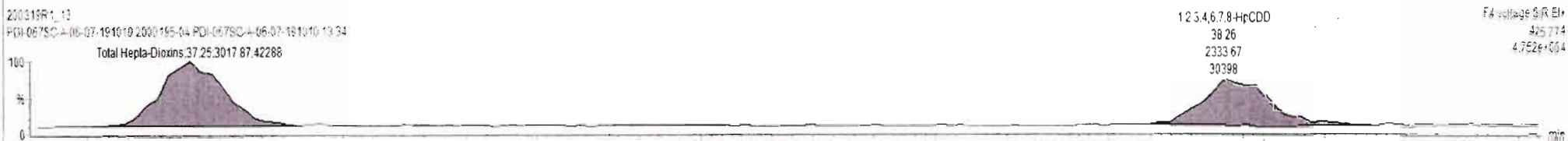
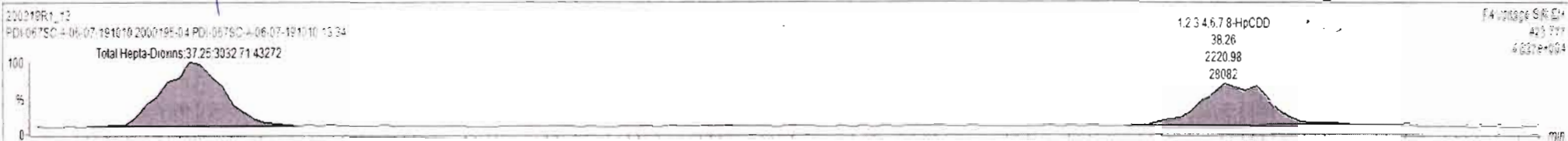
200319R1_13



F4:Voltage SIR,EI+
437.814
1.677e+006

Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9925	10.005					0.0680	
40 Total Penta-Dioxins				0.9212	10.005			0.000		0.0420	0.183
41 Total Hexa-Dioxins				0.9844	10.005			1.66		0.122	1.84
42 Total Hepta-Dioxins				1.0061	10.005			8.18		0.147	8.18
43 Total Total Furans				0.0152	10.005			0.249		0.0872	0.452

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.25	3.073e3	3.018e3	1.00	NO	4.6644	4.6644
2 1,2,3,4,6,7,8-HpCDD	38.25	2.221e3	2.234e3	0.99	NO	3.5112	3.5112

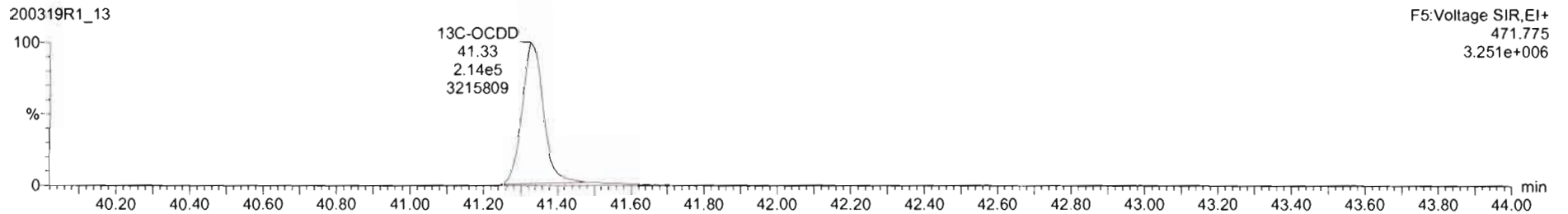
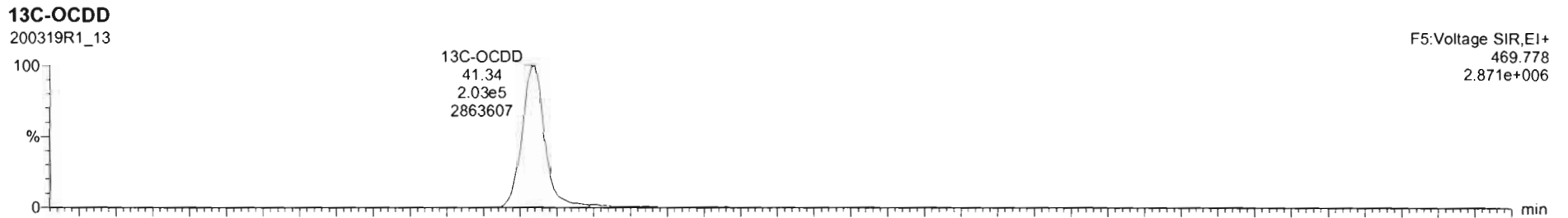
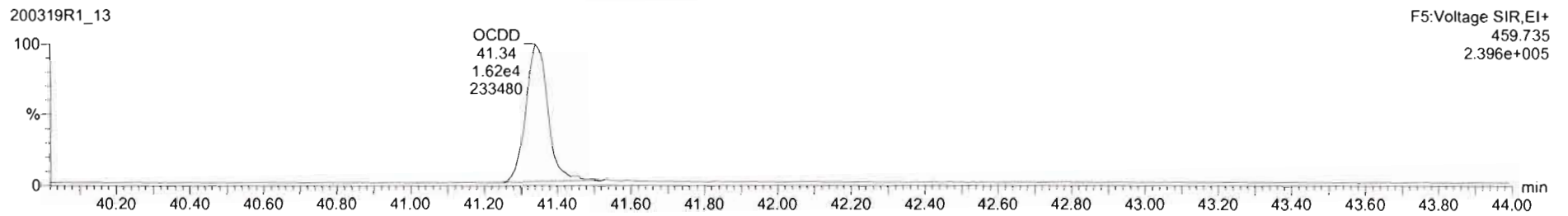
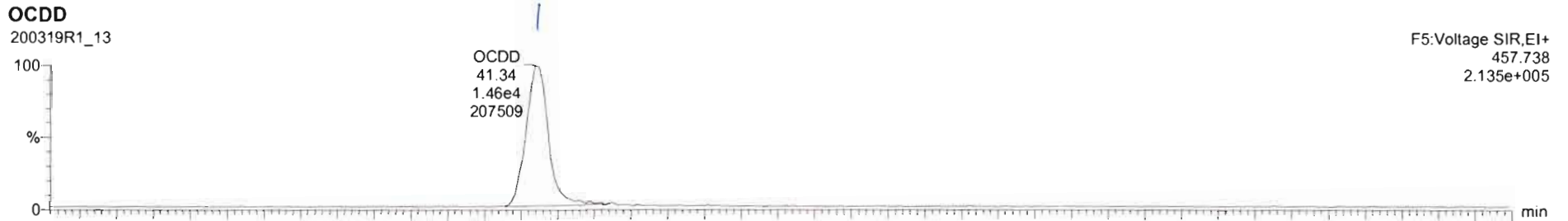


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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

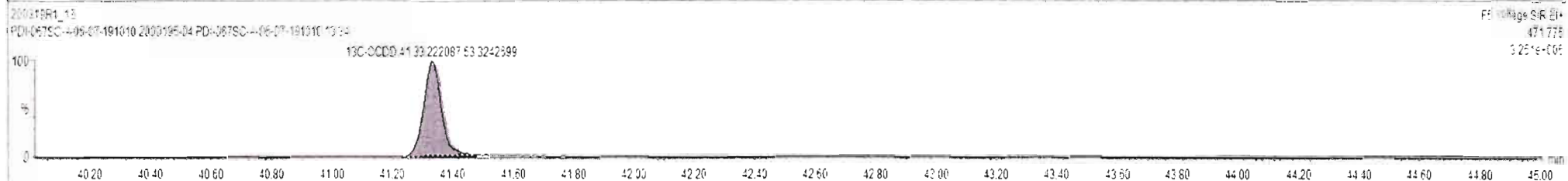
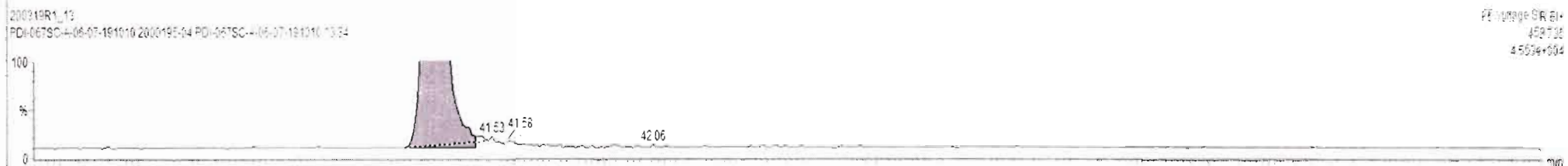
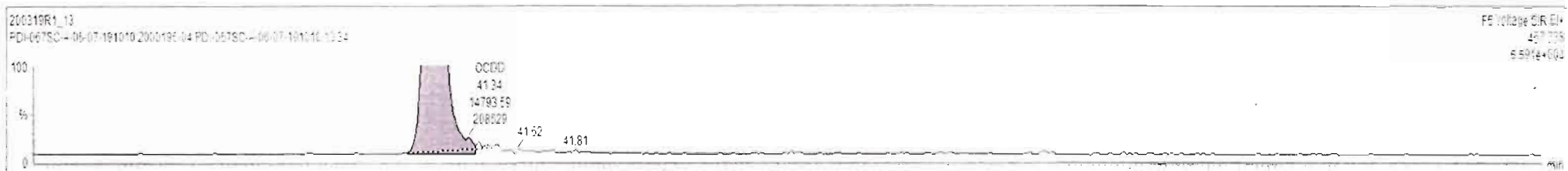
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200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

Name	Resp	RA	ny	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	3.13e4	0.90	NO	1.0515	10.005	41.34	1.000	28.0		0.185	28.0
8 2,2,7,8-TCDF	5.41e2	0.73	NO	0.6154	10.005	24.78	1.001	0.152		0.0374	0.152

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1							

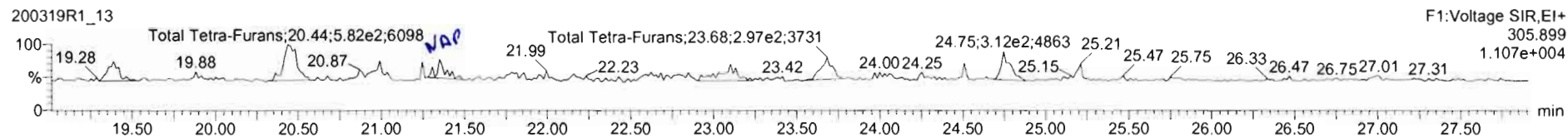
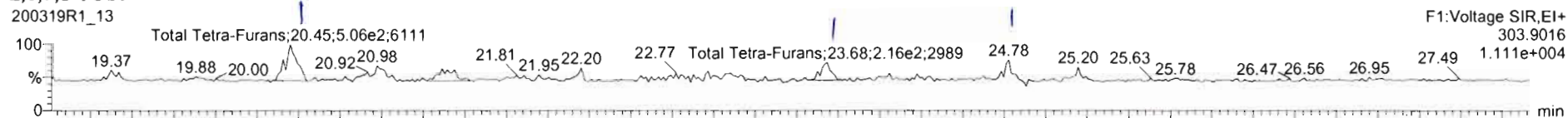


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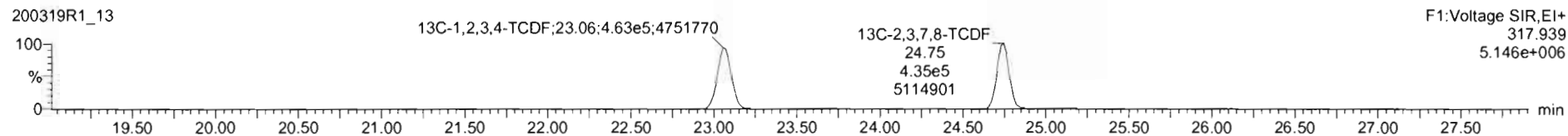
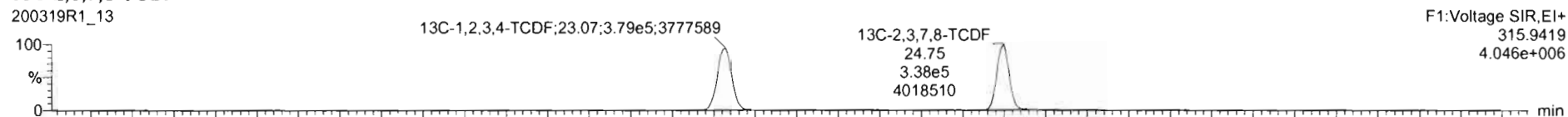
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Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010

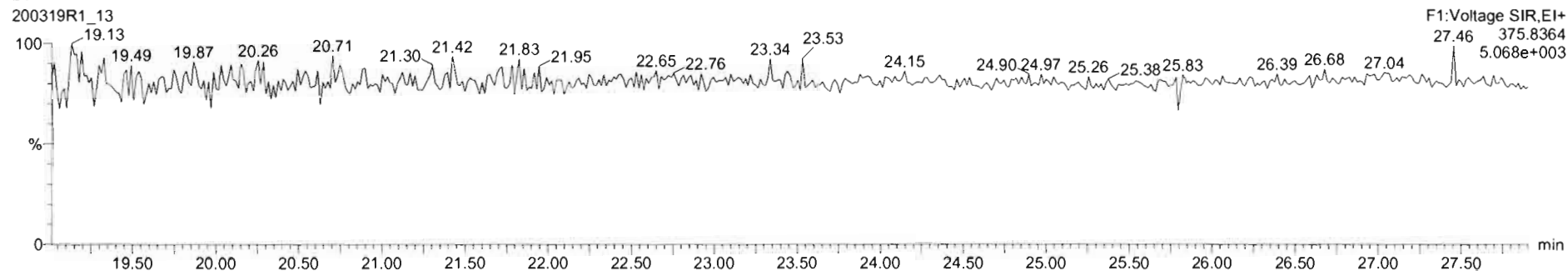
2,3,7,8-TCDF



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

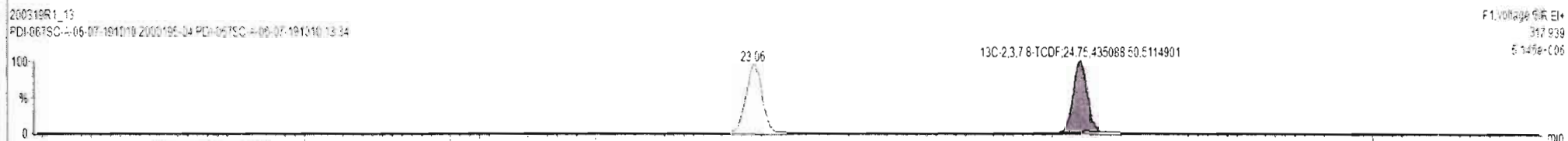
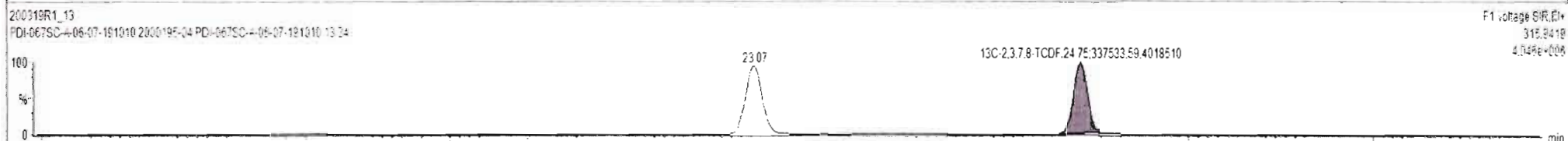
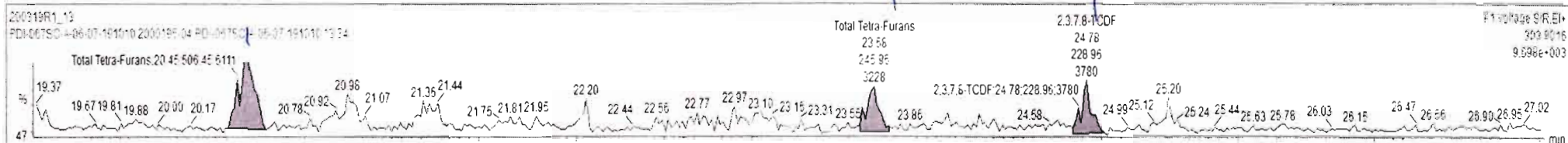


DPE1



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.005			0.302		0.0874	0.610
44 1st Func. Penta-Furans				0.9594	10.005					0.0275	
45 Total Penta-Furans				0.9594	10.005					0.0421	
46 Total Hexa-Furans				1.0920	10.005					0.0259	
47 Total Hepta-Furans				1.0667	10.005			0.0000		0.0529	0.270

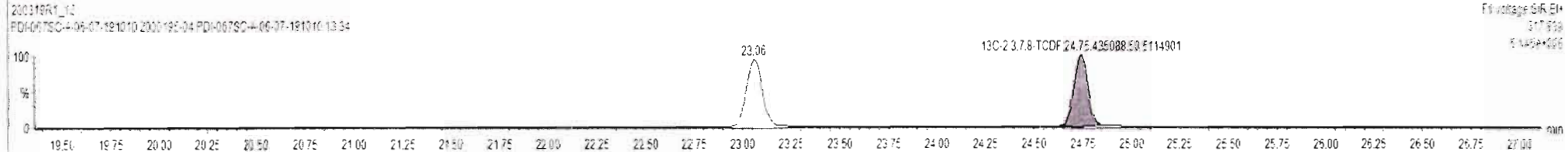
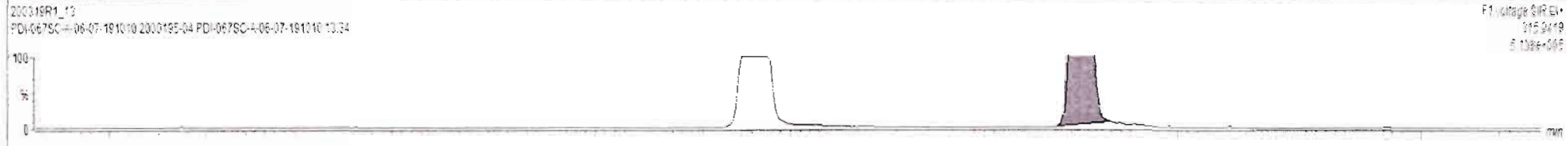
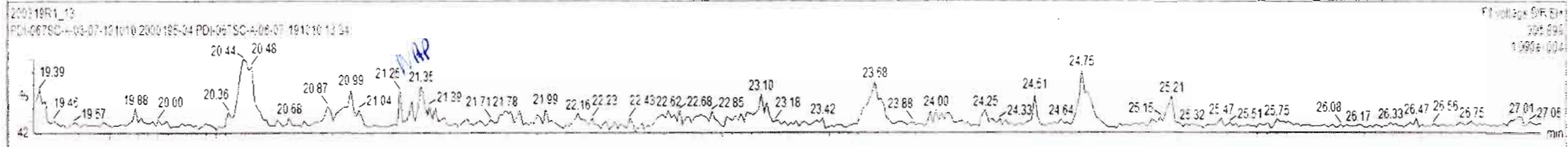
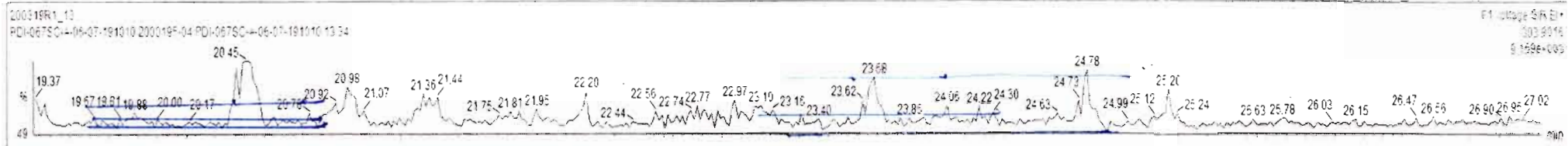
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.45	5.09e+2	5.815e2	0.87	NO	0.20759	0.60000
2 Total Tetra-Furans	23.58	2.460e2	2.825e2	0.87	NO	0.14936	0.14936
3 2,3,7,8-TCDF	24.75	2.260e2	3.123e2	0.72	NO	0.15299	0.15298



200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCCD	3.17e4	0.90	NO	1.0515	10.005	41.34	1.000	28.3	0.185	28.3
8	2,3,7,8-TCDF			NO	0.9154	10.005				0.0874	
9	1,2,3,7,8-PeCDF			NO	0.5594	10.005				0.0961	
10	2,3,4,7,8-PeCDF			NO	1.0025	10.005				0.0861	
11	1,2,3,4,7,8-HxCDF			NO	1.0581	10.005				0.0510	

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



Dataset: Untitled

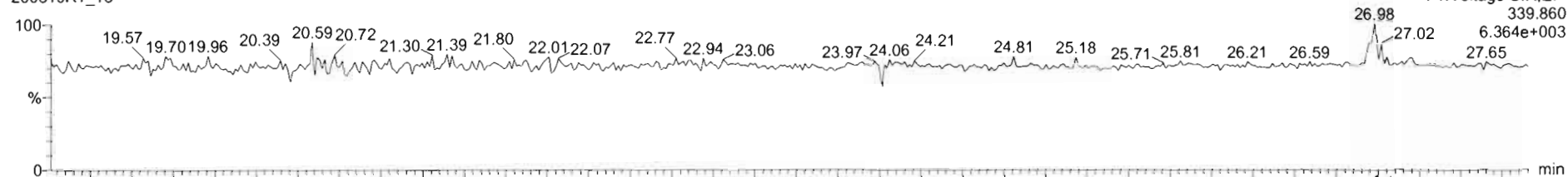
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Printed: Friday, March 20, 2020 07:47:29 Pacific Daylight Time

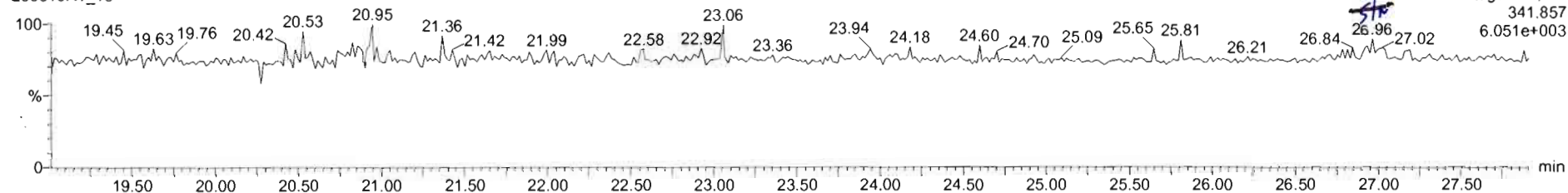
Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010

1st Func. Penta-Furans

200319R1_13

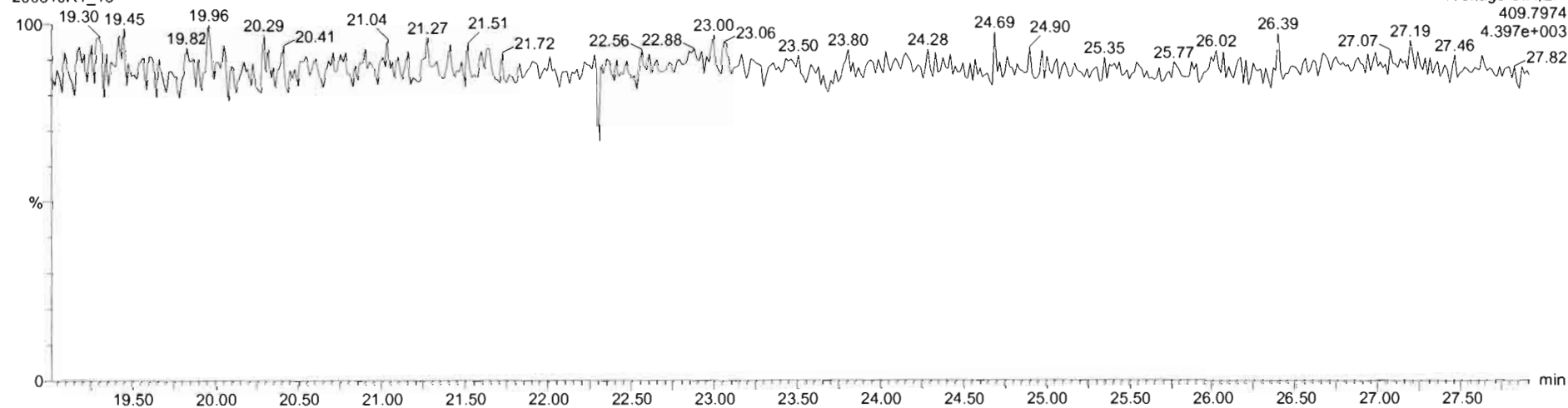


200319R1_13



DPE6

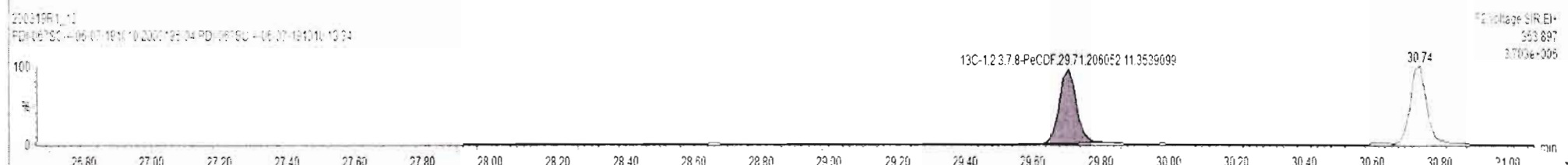
200319R1_13



200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

ID #	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Fura-Furans				0.9154	10.005			0.702		0.0874	0.610
44	1st Func. Penta-Furans				0.9594	10.005					0.0235	

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



Dataset: Untitled

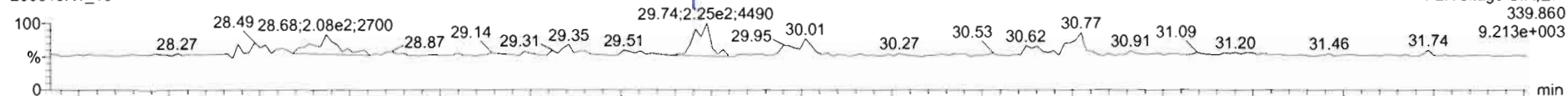
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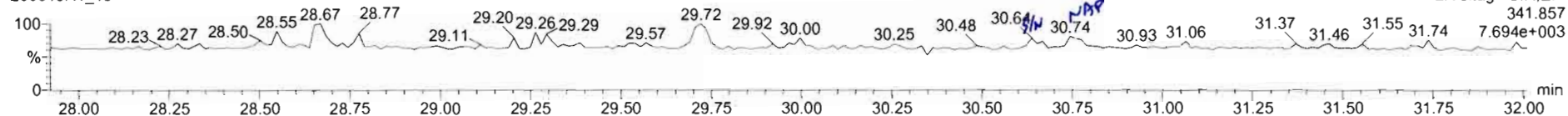
Name: 200319R1_13, Date: 20-Mar-2020, Time: 01:51:41, ID: 2000195-04 PDI-067SC-A-06-07-191010 13.34, Description: PDI-067SC-A-06-07-191010

1,2,3,7,8-PeCDF

200319R1_13

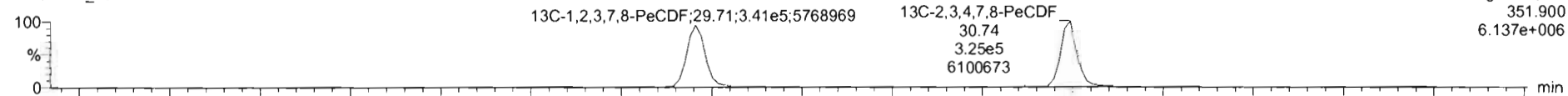


200319R1_13

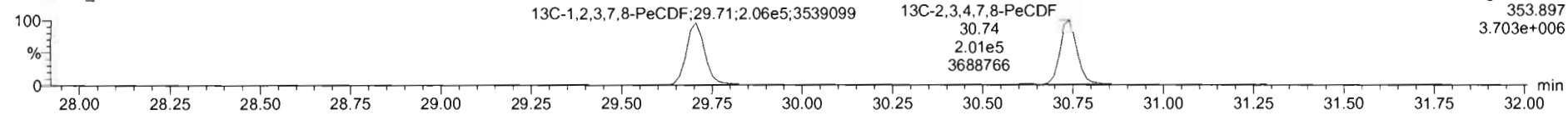


13C-1,2,3,7,8-PeCDF

200319R1_13

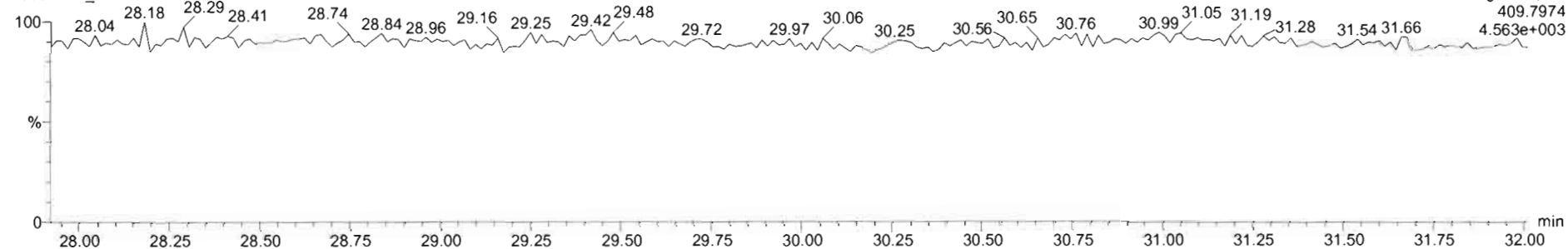


200319R1_13



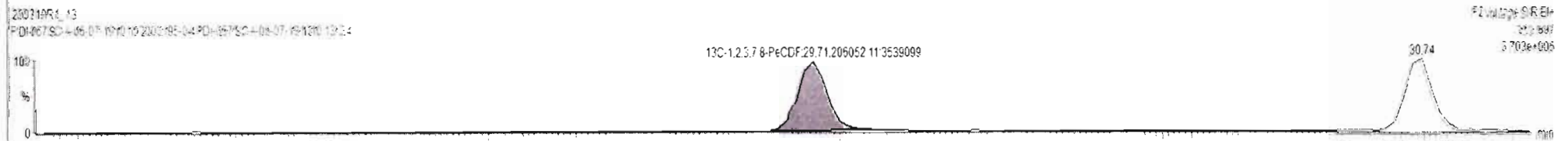
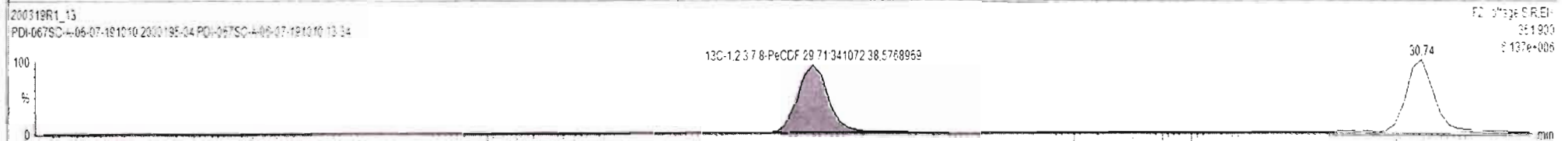
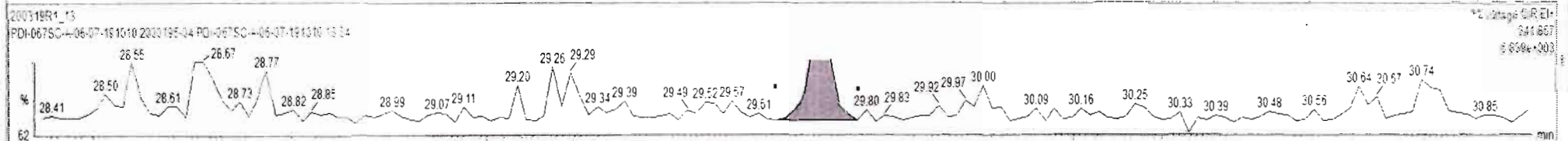
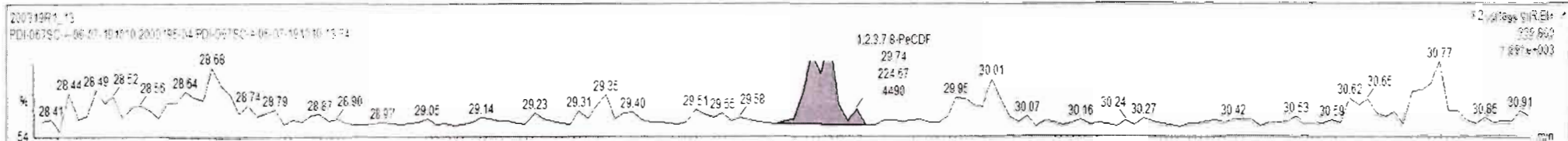
DPE2

200319R1_13



Name	Resp	RA	n/y	RRF	injVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.005			0.332		0.5874	0.610
44 1st Func. Penta-Furans				0.9594	10.005					0.9235	
45 Total Penta-Furans				0.9594	10.005			0.142		0.0481	0.142
46 Total Hexa-Furans				1.0920	10.005					0.2209	
47 Total Hepta-Furans				1.0487	10.005			0.000		0.0581	0.370

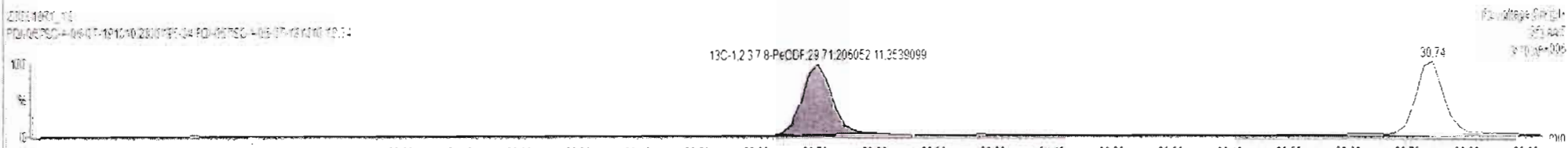
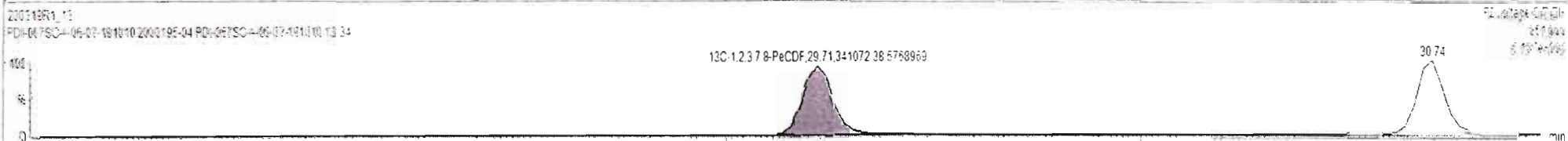
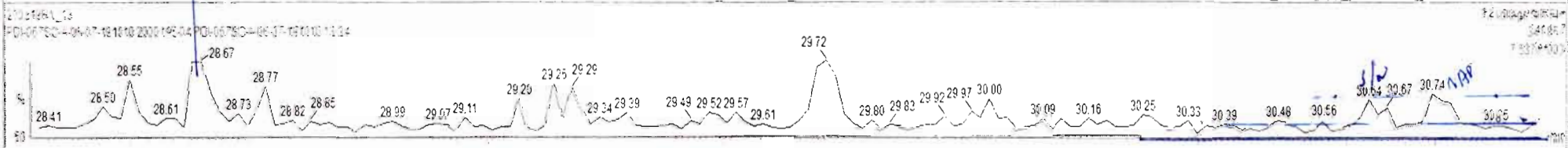
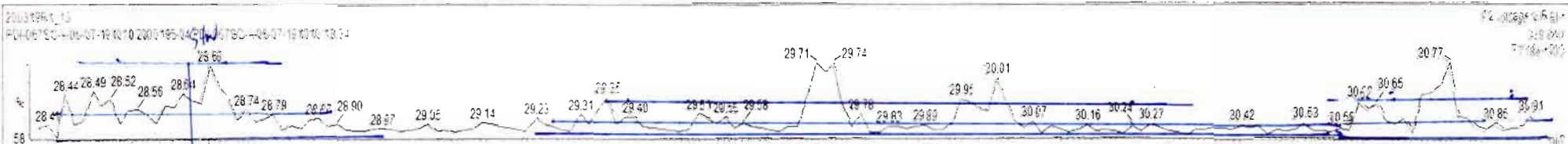
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-PeCDF	29.74	2.247e2	1.472e2	1.53	ND	0.141E3	0.141E3



200319R1_13 - 2000195-04 PDI-067SC-A-06-07-191010 13.34 - PDI-067SC-A-06-07-191010

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.005			0.332		0.2874	0.610
44 1st Func Penta-Furans				0.9594	10.005					0.0235	
45 Total Penta-Furans				0.9594	10.005					0.0481	
46 Total Hexa-Furans				1.0520	10.005					0.0285	
47 Total Hepta-Furans				1.0453	10.005			0.000		0.0663	0.020

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



Dataset: U:\VG12.PRO\Results\200319R2\200319R2-4.qld

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Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

#	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	1.28e3	0.74	NO	0.983	10.019	25.796	25.78	1.001	1.001	0.49243		0.112	0.492
2	2 1,2,3,7,8-PeCDD	1.96e3	0.55	NO	0.921	10.019	31.086	31.09	1.001	1.001	1.2031		0.171	1.20
3	3 1,2,3,4,7,8-HxCDD	1.79e3	1.26	NO	1.13	10.019	34.480	34.48	1.000	1.000	1.1334		0.249	1.13
4	4 1,2,3,6,7,8-HxCDD	1.62e4	1.23	NO	0.984	10.019	34.576	34.59	1.000	1.000	9.9700		0.247	9.97
5	5 1,2,3,7,8,9-HxCDD	4.62e3	1.43	YES	0.967	10.019	34.842	34.85	1.000	1.001	9.8708		0.270	2.83
6	6 1,2,3,4,6,7,8-HpCDD	3.74e5	1.03	NO	1.01	10.019	38.273	38.27	1.000	1.000	300.25		1.32	300
7	7 OCDD	5.77e6	0.89	NO	1.05	10.019	41.329	41.34	1.000	1.000	5069.8		1.04	5070
8	8 2,3,7,8-TCDF	1.27e4	0.77	NO	0.915	10.019	24.788	24.78	1.001	1.001	3.4902	(3.4981)	0.202	3.49
9	9 1,2,3,7,8-PeCDF	1.20e4	1.65	NO	0.959	10.019	29.742	29.72	1.001	1.000	4.2873		0.276	4.29
10	10 2,3,4,7,8-PeCDF	6.38e3	1.53	NO	1.00	10.019	30.774	30.77	1.001	1.001	2.3059		0.269	2.31
11	11 1,2,3,4,7,8-HxCDF	2.05e4	1.19	NO	1.04	10.019	33.618	33.63	1.000	1.000	9.3635		0.147	9.36
12	12 1,2,3,6,7,8-HxCDF	1.20e4	1.13	NO	1.01	10.019	33.745	33.76	1.000	1.001	5.1538		0.147	5.15
13	13 2,3,4,6,7,8-HxCDF	9.01e3	1.22	NO	1.09	10.019	34.344	34.32	1.001	1.000	3.9325		0.151	3.93
14	14 1,2,3,7,8,9-HxCDF	1.17e3	1.32	NO	1.03	10.019	35.173	35.22	1.000	1.001	0.64041		0.216	0.640
15	15 1,2,3,4,6,7,8-HpCDF	1.07e5	1.00	NO	1.05	10.019	36.904	36.88	1.001	1.000	65.500		0.365	65.5
16	16 1,2,3,4,7,8,9-HpCDF	4.33e3	0.92	NO	1.21	10.019	38.922	38.94	1.000	1.001	3.3327		0.449	3.33
17	17 OCDF	8.91e4	0.89	NO	0.947	10.019	41.510	41.52	1.000	1.000	70.568		0.224	70.6
18	18 13C-2,3,7,8-TCDD	5.27e5	0.79	NO	1.18	10.019	25.750	25.76	1.029	1.029	182.55	91.5	0.281	
19	19 13C-1,2,3,7,8-PeCDD	3.53e5	0.63	NO	0.864	10.019	30.937	31.06	1.236	1.241	167.48	83.9	0.343	
20	20 13C-1,2,3,4,7,8-HxCDD	2.79e5	1.28	NO	0.754	10.019	34.474	34.47	1.014	1.014	157.31	78.8	0.705	
21	21 13C-1,2,3,6,7,8-HxCDD	3.29e5	1.27	NO	0.925	10.019	34.582	34.58	1.017	1.017	151.18	75.7	0.574	
22	22 13C-1,2,3,7,8,9-HxCDD	3.11e5	1.24	NO	0.829	10.019	34.844	34.83	1.025	1.024	159.27	79.8	0.641	
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.47e5	1.08	NO	0.598	10.019	38.306	38.26	1.127	1.125	175.59	88.0	0.519	
24	24 13C-OCDD	4.32e5	0.89	NO	0.571	10.019	41.457	41.33	1.219	1.216	321.57	80.5	0.433	
25	25 13C-2,3,7,8-TCDF	7.90e5	0.80	NO	1.09	10.019	24.772	24.76	0.990	0.989	174.29	87.3	0.390	
26	26 13C-1,2,3,7,8-PeCDF	5.84e5	1.59	NO	0.876	10.019	29.608	29.72	1.183	1.187	160.09	80.2	0.745	
27	27 13C-2,3,4,7,8-PeCDF	5.50e5	1.64	NO	0.844	10.019	30.619	30.74	1.223	1.228	156.70	78.5	0.773	
28	28 13C-1,2,3,4,7,8-HxCDF	4.21e5	0.51	NO	1.00	10.019	33.620	33.62	0.989	0.989	179.12	89.7	0.465	
29	29 13C-1,2,3,6,7,8-HxCDF	4.57e5	0.51	NO	1.12	10.019	33.729	33.74	0.992	0.992	173.92	87.1	0.416	
30	30 13C-2,3,4,6,7,8-HxCDF	4.19e5	0.52	NO	1.04	10.019	34.310	34.31	1.009	1.009	171.92	86.1	0.449	
31	31 13C-1,2,3,7,8,9-HxCDF	3.56e5	0.51	NO	0.873	10.019	35.184	35.17	1.035	1.034	173.15	86.7	0.533	

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-4.qld

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Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.12e5	0.45	NO	0.771	10.019	36.901	36.87	1.085	1.084	172.05	86.2	0.470	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.14e5	0.43	NO	0.519	10.019	38.989	38.92	1.147	1.145	175.42	87.9	0.697	
34	34 13C-OCDF	5.32e5	0.92	NO	0.696	10.019	41.638	41.51	1.225	1.221	324.96	81.4	0.298	
35	35 37Cl-2,3,7,8-TCDD	2.12e5			1.17	10.019	25.760	25.78	1.029	1.030	73.912	92.6	0.135	
36	36 13C-1,2,3,4-TCDD	4.87e5	0.80	NO	1.00	10.019	25.050	25.03	1.000	1.000	199.62	100	0.333	
37	37 13C-1,2,3,4-TCDF	8.31e5	0.80	NO	1.00	10.019	23.190	23.07	1.000	1.000	199.62	100	0.425	
38	38 13C-1,2,3,4,6,9-HxCDF	4.69e5	0.51	NO	1.00	10.019	33.880	34.00	1.000	1.000	199.62	100	0.465	
39	39 Total Tetra-Dioxins				0.983	10.019	24.620		0.000		3.5521		0.112	4.83
40	40 Total Penta-Dioxins				0.921	10.019	29.960		0.000		14.287		0.171	14.5
41	41 Total Hexa-Dioxins				0.984	10.019	33.635		0.000		107.90		0.268	113
42	42 Total Hepta-Dioxins				1.01	10.019	37.640		0.000		854.84		1.32	855
43	43 Total Tetra-Furans				0.915	10.019	23.610		0.000		39.494		0.202	40.5 P
44	44 1st Func. Penta-Furans				0.959	10.019	27.090		0.000		29.854		0.0606	29.9
45	45 Total Penta-Furans				0.959	10.019	29.275		0.000		36.296		0.279	36.3 P
46	46 Total Hexa-Furans				1.09	10.019	33.555		0.000		93.707		0.155	94.5 P
47	47 Total Hepta-Furans				1.05	10.019	37.835		0.000		183.70		0.428	184

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Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.42	1.233e4	1.437e4	1.153e3	1.326e3	0.87	NO	2.479e3	0.95396	0.95396	0.112
2	Total Tetra-Dioxins	21.78	7.894e3	7.727e3	6.059e2	6.215e2	0.97	YES	0.000e0	0.00000	0.42334	0.112
3	Total Tetra-Dioxins	22.29	5.055e3	5.997e3	4.503e2	4.892e2	0.92	YES	0.000e0	0.00000	0.33321	0.112
4	Total Tetra-Dioxins	23.28	6.011e3	5.583e3	4.852e2	5.052e2	0.96	YES	0.000e0	0.00000	0.34408	0.112
5	Total Tetra-Dioxins	23.61	6.024e3	7.055e3	6.368e2	7.484e2	0.85	NO	1.385e3	0.53300	0.53300	0.112
6	Total Tetra-Dioxins	23.86	6.951e3	7.602e3	5.657e2	6.492e2	0.87	NO	1.215e3	0.46751	0.46751	0.112
7	Total Tetra-Dioxins	24.15	2.095e3	3.006e3	1.607e2	2.141e2	0.75	NO	3.748e2	0.14422	0.14422	0.112
8	Total Tetra-Dioxins	24.40	2.910e3	2.968e3	2.020e2	2.576e2	0.78	NO	4.596e2	0.17687	0.17687	0.112
9	Total Tetra-Dioxins	24.58	3.643e3	3.796e3	2.550e2	2.534e2	1.01	YES	0.000e0	0.00000	0.17260	0.112
10	Total Tetra-Dioxins	24.99	3.555e3	3.090e3	2.252e2	2.548e2	0.88	NO	4.800e2	0.18471	0.18471	0.112
11	Total Tetra-Dioxins	25.50	3.542e3	5.531e3	3.474e2	4.427e2	0.78	NO	7.901e2	0.30405	0.30405	0.112
12	2,3,7,8-TCDD	25.78	8.024e3	1.069e4	5.462e2	7.334e2	0.74	NO	1.280e3	0.49243	0.49243	0.112
13	Total Tetra-Dioxins	26.15	3.958e3	3.877e3	2.208e2	2.976e2	0.74	NO	5.184e2	0.19947	0.19947	0.112
14	Total Tetra-Dioxins	26.84	1.476e3	2.014e3	1.002e2	1.489e2	0.67	NO	2.491e2	0.095844	0.095844	0.112

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.75	3.839e4	5.929e4	3.389e3	4.933e3	0.69	NO	8.322e3	5.1049	5.1049	0.171
2	Total Penta-Dioxins	29.26	1.822e4	2.321e4	8.744e2	1.442e3	0.61	NO	2.316e3	1.4207	1.4207	0.171
3	Total Penta-Dioxins	29.78	1.890e4	3.037e4	1.099e3	1.736e3	0.63	NO	2.834e3	1.7385	1.7385	0.171
4	Total Penta-Dioxins	29.97	1.427e4	2.916e4	8.432e2	1.419e3	0.59	NO	2.262e3	1.3874	1.3874	0.171
5	Total Penta-Dioxins	30.04	1.063e4	1.143e4	5.228e2	7.236e2	0.72	NO	1.246e3	0.76456	0.76456	0.171
6	Total Penta-Dioxins	30.27	1.628e4	2.292e4	1.267e3	1.821e3	0.70	NO	3.088e3	1.8942	1.8942	0.171
7	Total Penta-Dioxins	30.67	3.691e3	5.070e3	1.794e2	2.027e2	0.89	YES	0.000e0	0.00000	0.20264	0.171
8	1,2,3,7,8-PeCDD	31.09	1.249e4	2.376e4	6.965e2	1.265e3	0.55	NO	1.961e3	1.2031	1.2031	0.171
9	Total Penta-Dioxins	31.17	5.372e3	7.384e3	2.189e2	4.047e2	0.54	NO	6.236e2	0.38254	0.38254	0.171
10	Total Penta-Dioxins	31.48	4.599e3	7.042e3	2.322e2	4.061e2	0.57	NO	6.383e2	0.39154	0.39154	0.171

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Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	8.845e5	7.054e5	4.582e4	3.631e4	1.26	NO	8.213e4	54.391	54.391	0.268
2	Total Hexa-Dioxins	33.58	7.048e4	5.741e4	3.830e3	2.920e3	1.31	NO	6.750e3	4.4701	4.4701	0.268
3	Total Hexa-Dioxins	33.83	4.874e5	3.792e5	3.127e4	2.455e4	1.27	NO	5.582e4	36.968	36.968	0.268
4	Total Hexa-Dioxins	33.93	4.236e4	3.162e4	2.385e3	1.537e3	1.55	YES	0.000e0	0.00000	2.2798	0.268
5	1,2,3,4,7,8-HxCDD	34.48	1.913e4	1.614e4	9.983e2	7.952e2	1.26	NO	1.794e3	1.1334	1.1334	0.249
6	1,2,3,6,7,8-HxCDD	34.59	1.582e5	1.254e5	8.927e3	7.250e3	1.23	NO	1.618e4	9.9700	9.9700	0.247
7	Total Hexa-Dioxins	34.77	1.646e4	1.459e4	7.615e2	7.012e2	1.09	NO	1.463e3	0.96866	0.96866	0.268
8	1,2,3,7,8,9-HxCDD	34.85	5.002e4	3.368e4	2.721e3	1.902e3	1.43	YES	4.623e3	0.00000	2.8300	0.279

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.25	5.015e6	4.865e6	3.532e5	3.373e5	1.05	NO	6.905e5	554.58	554.58	1.32
2	1,2,3,4,6,7,8-HpCDD	38.27	2.540e6	2.426e6	1.898e5	1.841e5	1.03	NO	3.738e5	300.25	300.25	1.32

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Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.39	1.120e4	1.416e4	8.050e2	1.091e3	0.74	NO	1.896e3	0.52320	0.52320	0.202
2	Total Tetra-Furans	19.90	2.616e4	3.274e4	2.044e3	2.647e3	0.77	NO	4.691e3	1.2942	1.2942	0.202
3	Total Tetra-Furans	20.48	1.372e5	1.914e5	1.247e4	1.695e4	0.74	NO	2.942e4	8.1161	8.1161	0.202
4	Total Tetra-Furans	20.92	1.116e4	1.316e4	9.736e2	1.365e3	0.71	NO	2.338e3	0.64513	0.64513	0.202
5	Total Tetra-Furans	20.99	1.484e4	1.425e4	1.162e3	1.142e3	1.02	YES	0.000e0	0.00000	0.55782	0.202
6	Total Tetra-Furans	21.36	7.498e4	8.569e4	6.423e3	8.299e3	0.77	NO	1.472e4	4.0617	4.0617	0.202
7	Total Tetra-Furans	21.83	6.134e4	8.319e4	5.994e3	7.847e3	0.76	NO	1.384e4	3.8186	3.8186	0.202
8	Total Tetra-Furans	22.19	8.036e3	8.970e3	7.197e2	8.951e2	0.80	NO	1.615e3	0.44550	0.44550	0.202
9	Total Tetra-Furans	22.80	7.161e3	7.215e3	6.469e2	7.428e2	0.87	NO	1.390e3	0.38338	0.38338	0.202
10	Total Tetra-Furans	22.98	5.481e4	5.814e4	5.091e3	6.066e3	0.84	NO	1.116e4	3.0780	3.0780	0.202
11	Total Tetra-Furans	23.10	3.575e4	4.131e4	3.287e3	4.113e3	0.80	NO	7.401e3	2.0417	2.0417	0.202
12	Total Tetra-Furans	23.70	5.898e4	7.945e4	7.781e3	1.048e4	0.74	NO	1.826e4	5.0375	5.0375	0.202
13	Total Tetra-Furans	24.04	6.117e3	5.740e3	5.832e2	5.068e2	1.15	YES	0.000e0	0.00000	0.24747	0.202
14	Total Tetra-Furans	24.25	4.561e3	8.194e3	4.127e2	6.010e2	0.69	NO	1.014e3	0.27967	0.27967	0.202
15	Total Tetra-Furans	24.51	3.938e3	5.200e3	3.044e2	3.563e2	0.85	NO	6.607e2	0.18229	0.18229	0.202
16	Total Tetra-Furans	24.67	2.842e4	3.471e4	2.188e3	2.838e3	0.77	NO	5.026e3	1.3867	1.3867	0.202
17	2,3,7,8-TCDF	24.78	6.819e4	8.096e4	5.515e3	7.136e3	0.77	NO	1.265e4	3.4902	3.4902	0.202
18	Total Tetra-Furans	25.21	9.390e3	1.148e4	7.493e2	8.583e2	0.87	NO	1.608e3	0.44350	0.44350	0.202
19	Total Tetra-Furans	25.48	3.772e3	3.251e3	1.689e2	2.398e2	0.70	NO	4.086e2	0.11274	0.11274	0.202
20	Total Tetra-Furans	25.93	4.603e3	5.646e3	2.891e2	4.672e2	0.62	YES	0.000e0	0.00000	0.18331	0.202
21	Total Tetra-Furans	26.51	2.664e4	4.221e4	1.952e3	2.574e3	0.76	NO	4.526e3	1.2485	1.2485	0.202
22	Total Tetra-Furans	26.71	2.473e4	3.327e4	1.742e3	2.360e3	0.74	NO	4.102e3	1.1317	1.1317	0.202
23	Total Tetra-Furans	27.01	3.932e4	4.859e4	2.835e3	3.594e3	0.79	NO	6.429e3	1.7736	1.7736	0.202

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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.99	7.414e5	4.615e5	5.024e4	3.115e4	1.61	NO	8.139e4	29.854	29.854	0.0606

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-4.qld

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 Printed: Monday, March 30, 2020 11:46:41 AM Pacific Daylight Time

Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.56	2.219e4	1.674e4	1.660e3	9.830e2	1.69	NO	2.643e3	0.96960	0.96960	0.279
2	Total Penta-Furans	28.70	2.623e5	1.701e5	2.253e4	1.438e4	1.57	NO	3.691e4	13.539	13.539	0.279
3	Total Penta-Furans	29.11	8.622e3	6.242e3	6.534e2	4.839e2	1.35	NO	1.137e3	0.41714	0.41714	0.279
4	Total Penta-Furans	29.31	1.327e5	8.588e4	9.336e3	5.925e3	1.58	NO	1.526e4	5.5976	5.5976	0.279
5	Total Penta-Furans	29.54	2.480e4	2.010e4	1.477e3	9.934e2	1.49	NO	2.470e3	0.90605	0.90605	0.279
6	1,2,3,7,8-PeCDF	29.72	1.221e5	7.242e4	7.486e3	4.550e3	1.65	NO	1.204e4	4.2873	4.2873	0.276
7	Total Penta-Furans	30.01	7.824e4	4.594e4	4.225e3	2.711e3	1.56	NO	6.936e3	2.5440	2.5440	0.279
8	Total Penta-Furans	30.10	5.021e4	2.918e4	2.793e3	1.788e3	1.56	NO	4.581e3	1.6803	1.6803	0.279
9	Total Penta-Furans	30.65	1.129e4	6.997e3	4.485e2	3.084e2	1.45	NO	7.569e2	0.27761	0.27761	0.279
10	2,3,4,7,8-PeCDF	30.77	1.231e5	8.368e4	3.858e3	2.521e3	1.53	NO	6.380e3	2.3059	2.3059	0.269
11	Total Penta-Furans	30.79	1.265e5	9.284e4	5.953e3	3.846e3	1.55	NO	9.799e3	3.5941	3.5941	0.279
12	Total Penta-Furans	31.74	6.270e3	3.366e3	2.955e2	1.872e2	1.58	NO	4.827e2	0.17707	0.17707	0.279

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Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.45	2.196e5	1.834e5	1.151e4	9.505e3	1.21	NO	2.101e4	9.2967	9.2967	0.155
2	Total Hexa-Furans	32.62	6.957e5	5.694e5	3.457e4	2.787e4	1.24	NO	6.244e4	27.624	27.624	0.155
3	Total Hexa-Furans	32.98	1.177e4	8.845e3	6.500e2	4.883e2	1.33	NO	1.138e3	0.50361	0.50361	0.155
4	Total Hexa-Furans	33.17	8.861e5	7.162e5	4.528e4	3.625e4	1.25	NO	8.153e4	36.072	36.072	0.155
5	Total Hexa-Furans	33.40	1.025e4	6.340e3	3.397e2	3.928e2	0.86	YES	0.000e0	0.00000	0.27150	0.155
6	Total Hexa-Furans	33.54	1.140e4	9.475e3	4.692e2	4.591e2	1.02	YES	0.000e0	0.00000	0.37496	0.155
7	1,2,3,4,7,8-HxCDF	33.63	2.185e5	1.767e5	1.114e4	9.379e3	1.19	NO	2.052e4	9.3635	9.3635	0.147
8	1,2,3,6,7,8-HxCDF	33.76	1.102e5	9.291e4	6.352e3	5.601e3	1.13	NO	1.195e4	5.1538	5.1538	0.147
9	Total Hexa-Furans	34.01	5.732e3	4.660e3	2.157e2	2.080e2	1.04	YES	0.000e0	0.00000	0.17238	0.155
10	Total Hexa-Furans	34.24	7.579e3	6.201e3	2.891e2	2.244e2	1.29	NO	5.135e2	0.22718	0.22718	0.155
11	2,3,4,6,7,8-HxCDF	34.32	9.456e4	6.822e4	4.941e3	4.064e3	1.22	NO	9.005e3	3.9325	3.9325	0.151
12	1,2,3,7,8,9-HxCDF	35.22	2.185e4	2.058e4	6.673e2	5.039e2	1.32	NO	1.171e3	0.64041	0.64041	0.216
13	Total Hexa-Furans	35.23	2.962e4	2.290e4	1.109e3	9.111e2	1.22	NO	2.020e3	0.89365	0.89365	0.155

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Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-4.qld

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Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

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	36.88	7.671e5	7.943e5	5.369e4	5.359e4	1.00	NO	1.073e5	65.500	65.500	0.365
2	Total Hepta-Furans	37.27	8.531e3	9.295e3	5.992e2	5.991e2	1.00	NO	1.198e3	0.86745	0.86745	0.428
3	Total Hepta-Furans	37.45	1.071e6	1.092e6	7.856e4	7.892e4	1.00	NO	1.575e5	114.00	114.00	0.428
4	1,2,3,4,7,8,9-HpCDF	38.94	3.024e4	3.406e4	2.068e3	2.259e3	0.92	NO	4.327e3	3.3327	3.3327	0.449

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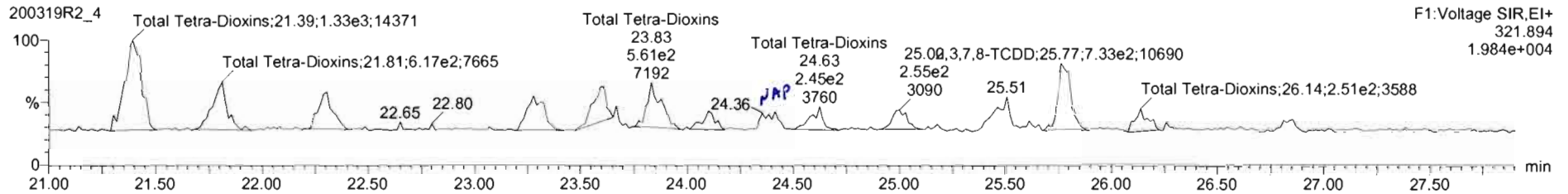
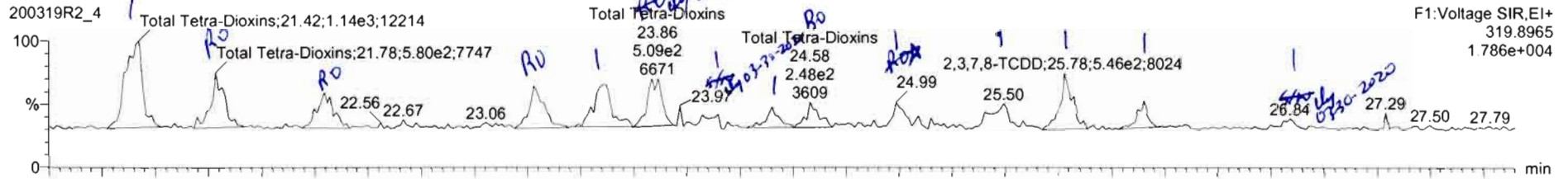
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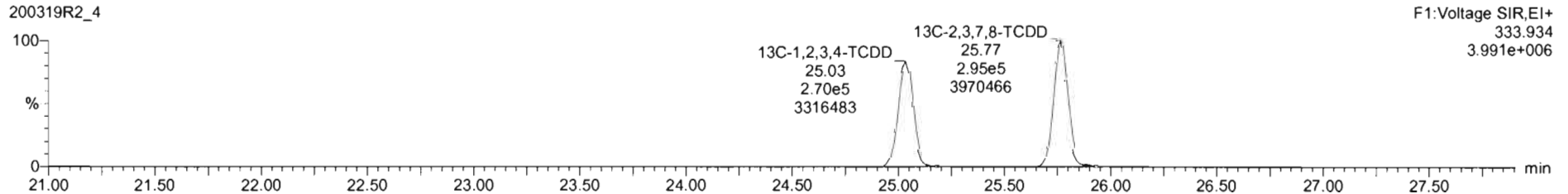
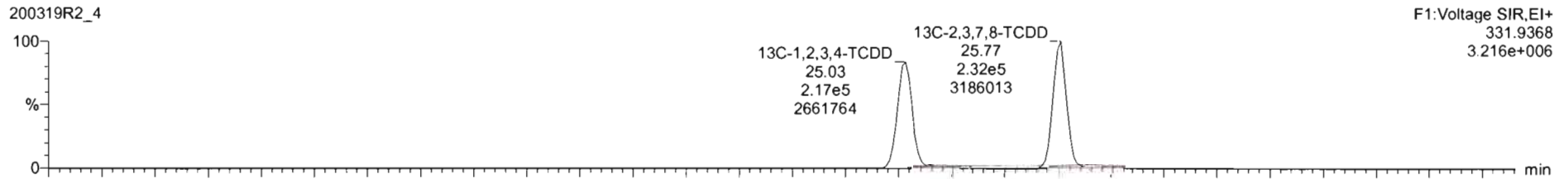
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2,3,7,8-TCDD

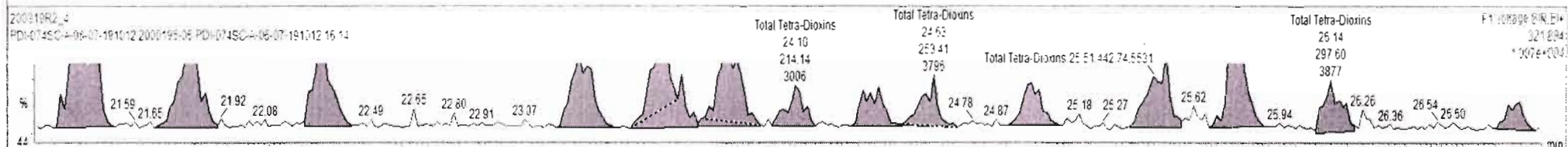
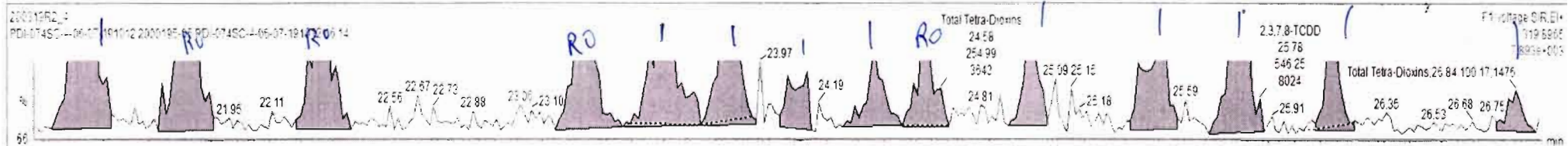


13C-2,3,7,8-TCDD



Name	Resp	RA	nly	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5835	10.019			3.55		0.112	4.83
40 Total Penta-Dioxins				0.5212	10.013			14.2		0.171	14.5

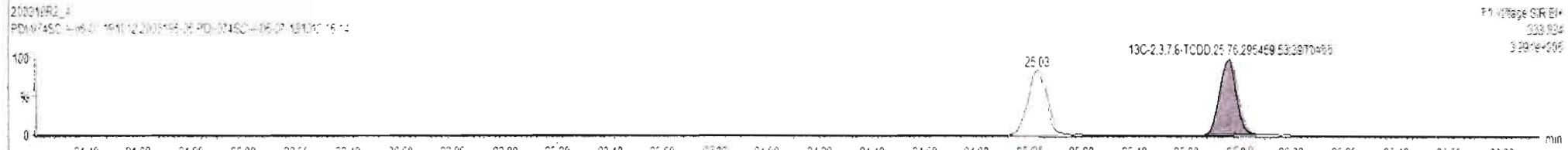
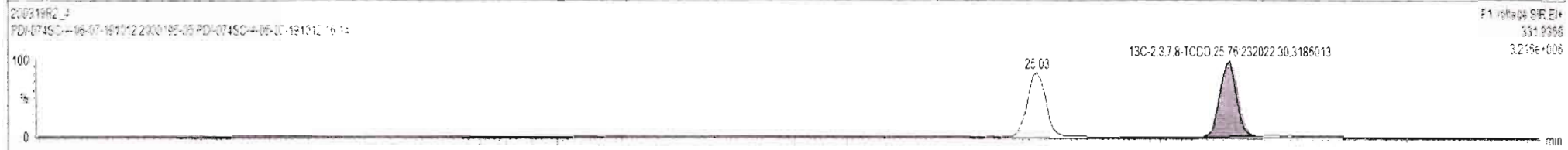
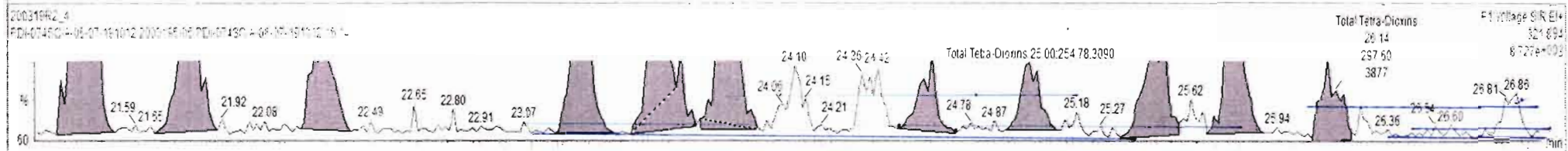
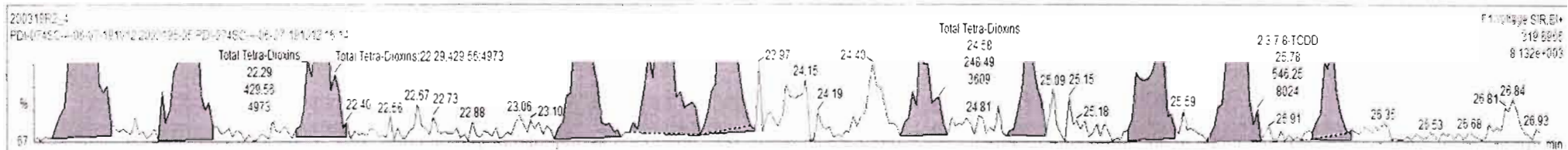
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.42	1.153e3	1.326e3	0.87	NO	0.95396	0.95396
2 Total Tetra-Dioxins	21.78	6.059e2	6.215e2	0.97	YES	0.42334	0.00000
3 Total Tetra-Dioxins	22.26	4.503e2	4.692e2	0.92	YES	0.33221	0.00000
4 Total Tetra-Dioxins	22.28	4.852e2	5.052e2	0.96	YES	0.34408	0.00000
5 Total Tetra-Dioxins	22.81	6.363e2	7.484e2	0.85	NO	0.53300	0.53300
6 Total Tetra-Dioxins	23.96	5.657e2	5.497e2	0.87	NO	0.46751	0.46751
7 Total Tetra-Dioxins	24.15	1.607e2	2.141e2	0.75	NO	0.14422	0.14422
8 Total Tetra-Dioxins	24.40	2.020e2	2.576e2	0.78	NO	0.17687	0.17687
9 Total Tetra-Dioxins	24.58	2.550e2	2.534e2	1.01	YES	0.17260	0.00000
10 Total Tetra-Dioxins	24.99	2.252e2	2.548e2	0.88	NO	0.13471	0.13471
11 Total Tetra-Dioxins	25.50	3.474e2	4.427e2	0.78	NO	0.30405	0.30405
12 2,3,7,8-TCDD	25.78	5.462e2	7.354e2	0.74	NO	0.49243	0.49243
13 Total Tetra-Dioxins	26.15	2.208e2	2.976e2	0.74	NO	0.19947	0.19947
14 Total Tetra-Dioxins	26.84	1.002e2	1.486e2	0.67	NO	0.095844	0.095844



200319R2_4 - 2000195-05 PDI-0745C-A-06-07-191012 16:14 - PDI-0745C-A-06-07-191012

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.019			2.64		0.112	4.30
40 Total Penta-Dioxins				0.9212	10.019			14.3		0.171	14.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.42	1.143e2	1.326e2	0.86	NO	0.95000	0.95904
2 Total Tetra-Dioxins	21.78	6.659e2	5.920e2	1.02	YES	0.40300	0.00000
3 Total Tetra-Dioxins	22.29	4.296e2	4.751e2	0.90	YES	0.32400	0.00000
4 Total Tetra-Dioxins	23.28	4.852e2	5.052e2	0.96	YES	0.34400	0.00000
5 Total Tetra-Dioxins	23.81	6.103e2	7.050e2	0.87	NO	0.53600	0.50613
6 Total Tetra-Dioxins	23.86	5.487e2	6.153e2	0.89	YES	0.41900	0.00000
7 Total Tetra-Dioxins	24.58	2.485e2	2.447e2	1.01	YES	0.16700	0.00000
8 Total Tetra-Dioxins	24.99	2.252e2	2.448e2	0.92	NO	0.18500	0.18471
9 Total Tetra-Dioxins	25.50	3.431e2	4.648e2	0.74	NO	0.21100	0.31090
10 2,3,7,8-TCDD	25.78	5.482e2	7.334e2	0.75	NO	0.49200	0.49243
11 Total Tetra-Dioxins	26.15	2.208e2	2.976e2	0.74	NO	0.19900	0.19947



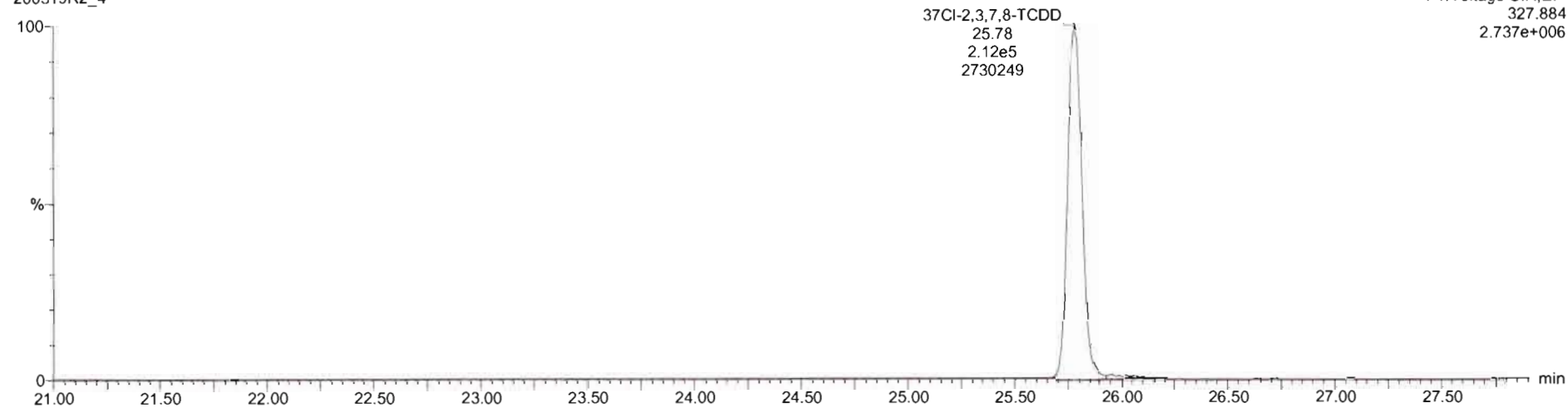
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Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

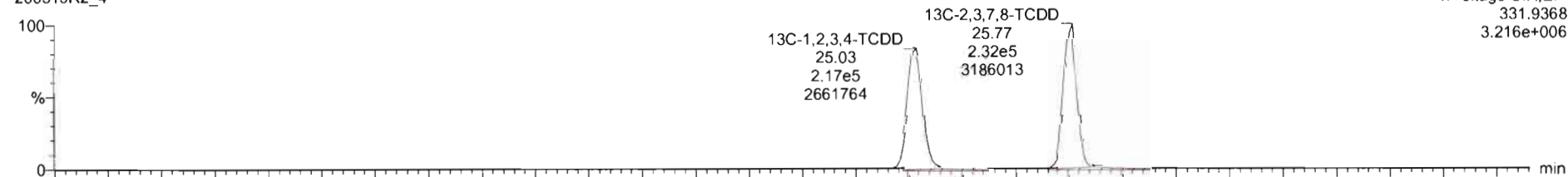
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200319R2_4

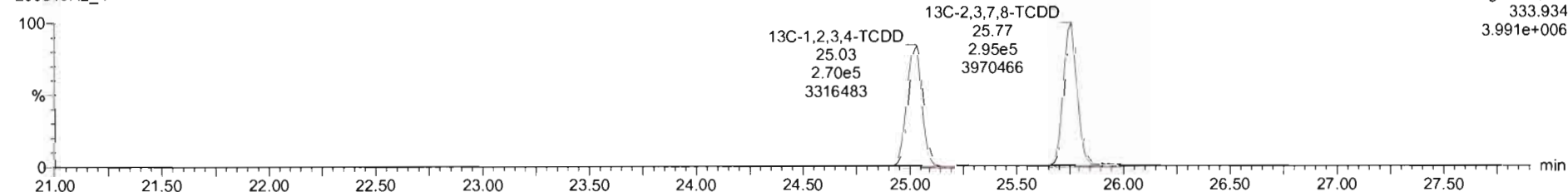


13C-1,2,3,4-TCDD

200319R2_4



200319R2_4



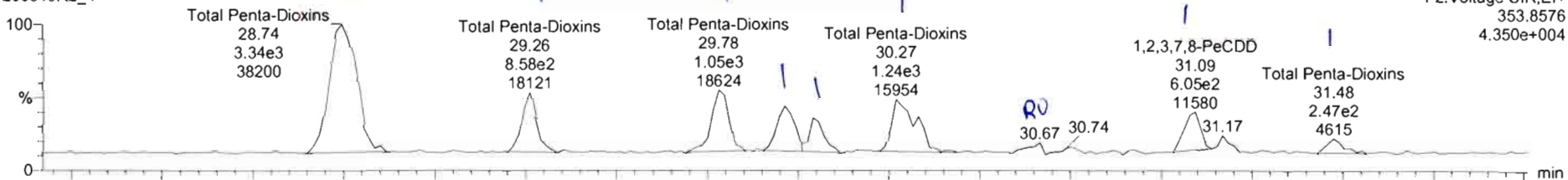
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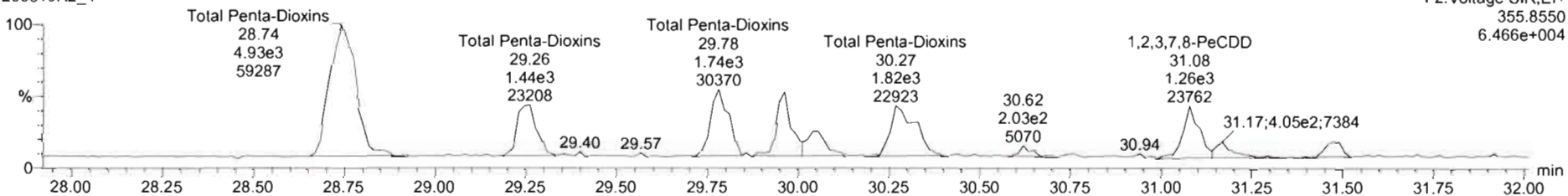
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1,2,3,7,8-PeCDD

200319R2_4

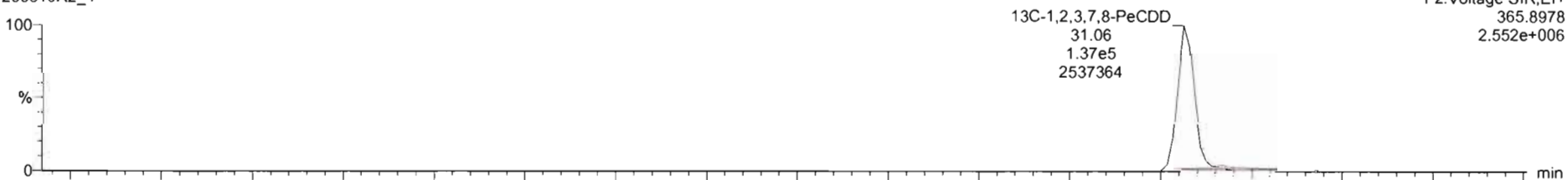


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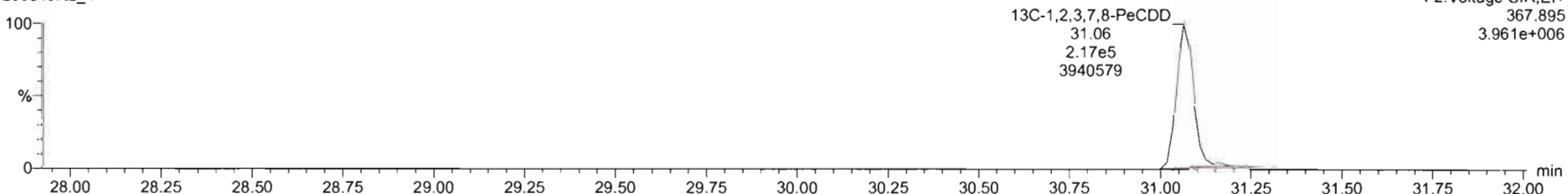


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200319R2_4



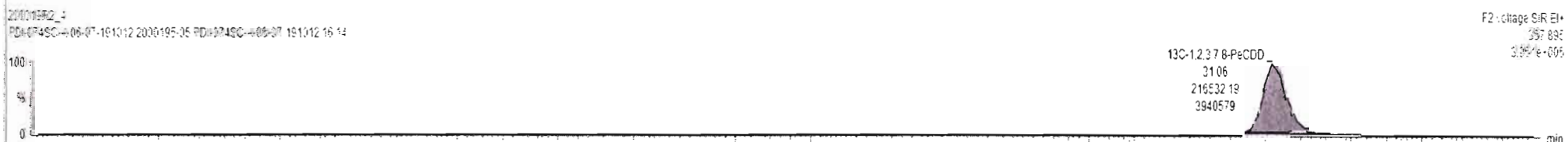
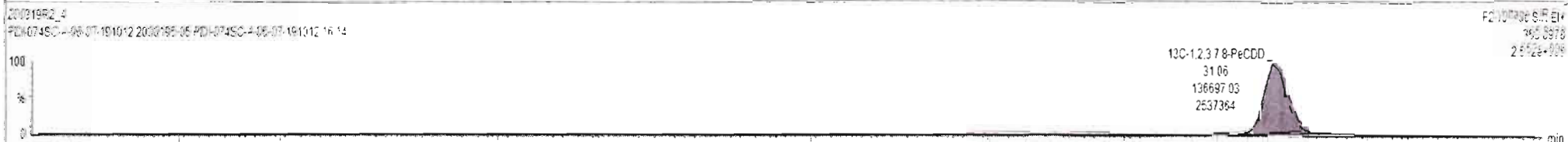
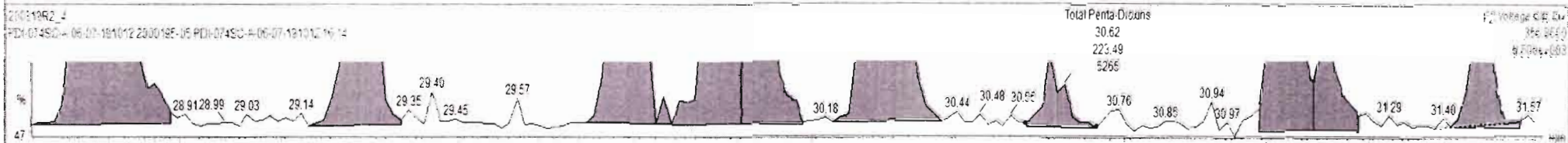
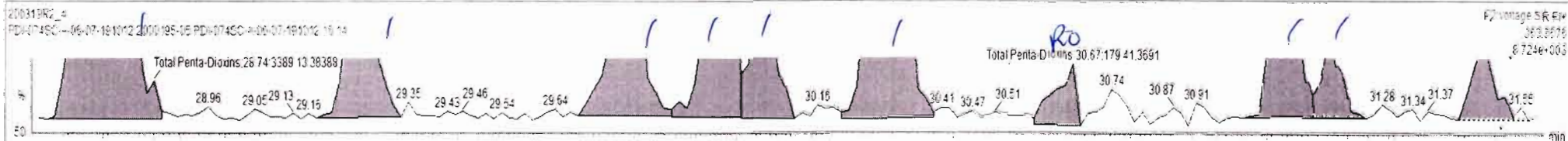
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200319R2_4 - 2000195-05-PDI-074SC-A-06-07-191012 16.14 - PDI-074SC-A-06-07-191012

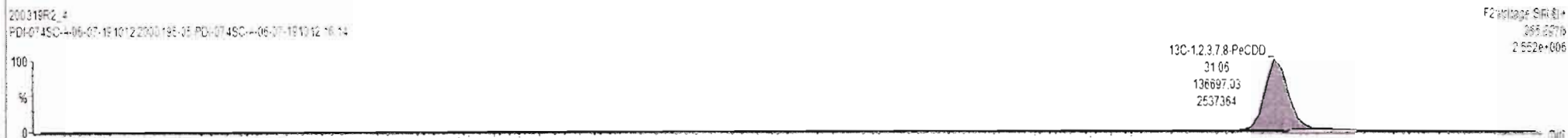
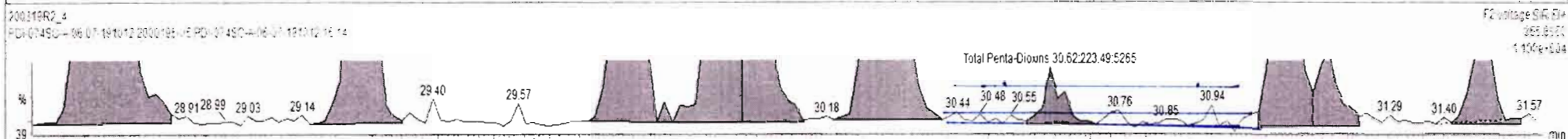
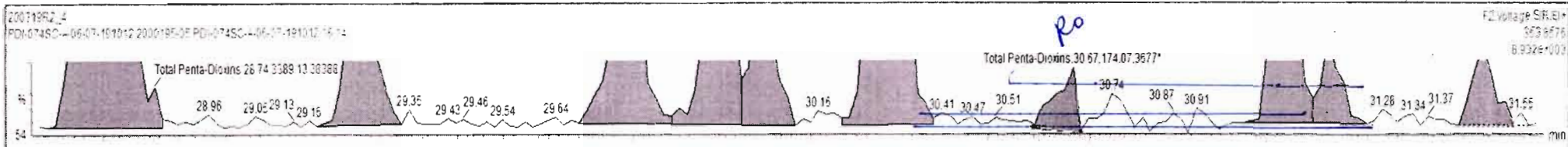
Name	Resp	RA	nly	RPF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.019			2.64		0.112	4.30
40 Total Penta-Dioxins				0.9212	10.019			14.3		0.171	14.5
41 Total Hexa-Dioxins				0.9844	10.019			100		0.268	111
42 Total Hepta-Dioxins				1.0061	10.019			852		1.32	552
43 Total Tetra-Furans				0.142	10.019			12.8		0.353	16.3

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	28.74	3.131e2	4.935e2	0.69	NO	5.1066	5.1066
2 Total Penta-Dioxins	29.28	8.744e2	1.482e2	0.69	NO	1.4454	1.4454
3 Total Penta-Dioxins	29.78	1.059e2	1.771e2	0.62	NO	1.7603	1.7603
4 Total Penta-Dioxins	29.97	8.432e2	1.432e2	0.69	NO	1.3954	1.3954
5 Total Penta-Dioxins	30.04	5.223e2	7.419e2	0.70	NO	0.77579	0.77579
6 Total Penta-Dioxins	30.27	1.267e2	1.821e2	0.70	NO	1.8942	1.8942
7 Total Penta-Dioxins	30.67	1.754e2	2.235e2	0.80	YES	0.22347	0.00000
8 1,2,3,7,8-PeCDD	31.06	6.965e2	1.196e2	0.58	NO	1.1604	1.1604
9 Total Penta-Dioxins	31.17	2.189e2	3.499e2	0.63	NO	0.34891	0.34891
10 Total Penta-Dioxins	31.48	2.322e2	4.061e2	0.57	NO	0.39154	0.39154



Name	Resp	RA	n/y	R5F	wf/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5833	10.015			2.64		0.112	4.30
40 Total Penta-Dioxins				0.9212	10.019			14.3		0.171	14.5
41 Total Hexa-Dioxins				0.5844	10.019			108		0.268	111
42 Total Hepta-Dioxins				1.0061	10.015			856		1.32	856
43 Total Tetra-Furans				0.6154	10.015			12.8		0.200	38.3

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.74	3.389e3	4.925e3	0.69	NO	5.1066	5.1066
2 Total Penta-Dioxins	29.26	0.744e2	1.482e2	0.69	NO	1.4454	1.4454
3 Total Penta-Dioxins	29.78	1.099e2	1.771e2	0.62	NO	1.7603	1.7603
4 Total Penta-Dioxins	29.97	8.422e2	1.422e3	0.69	NO	1.3954	1.3954
5 Total Penta-Dioxins	30.04	5.226e2	7.415e2	0.70	NO	0.77579	0.77575
6 Total Penta-Dioxins	30.27	1.267e3	1.621e3	0.70	NO	1.8542	1.8542
7 Total Penta-Dioxins	30.67	1.649e2	2.225e2	0.74	YES	0.22347	0.00000
8 1,2,3,7,8-PeCDD	31.09	6.965e2	1.195e3	0.58	NO	1.1604	1.1604
9 Total Penta-Dioxins	31.17	2.189e2	3.499e2	0.62	NO	0.34891	0.34891
10 Total Penta-Dioxins	31.48	2.322e2	4.061e2	0.57	NO	0.39154	0.39154



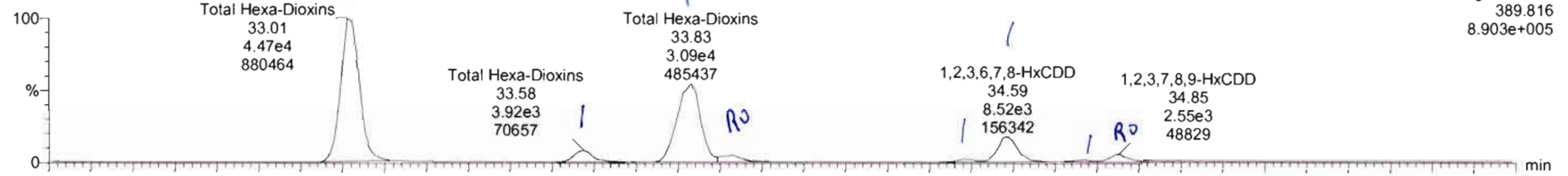
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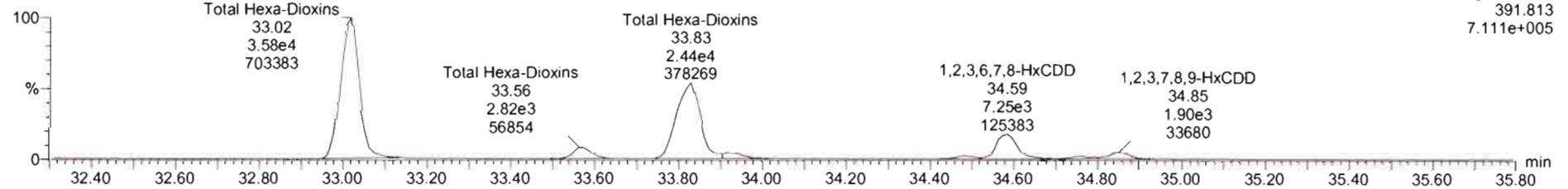
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1,2,3,4,7,8-HxCDD

200319R2_4

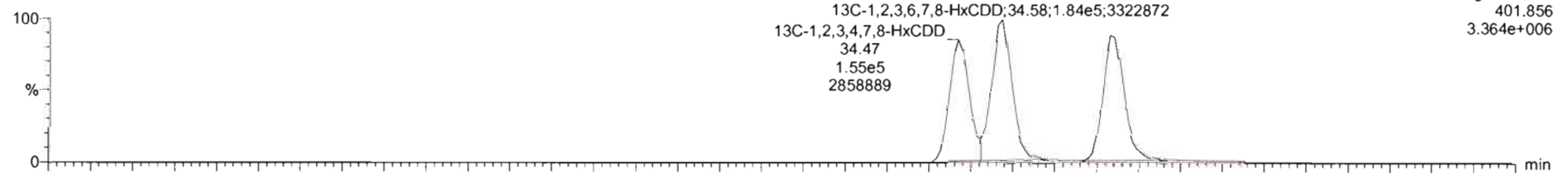


200319R2_4

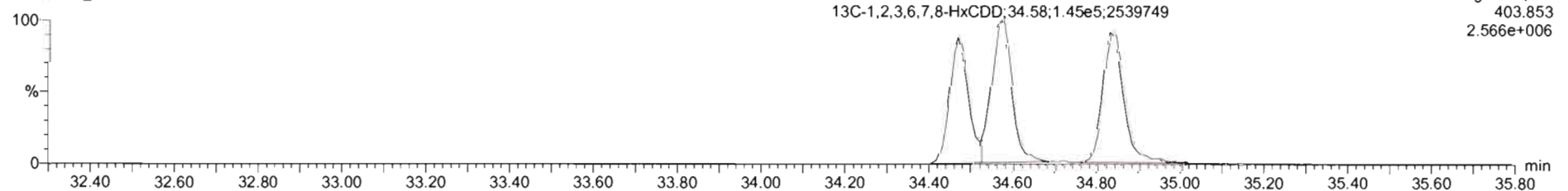


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200319R2_4



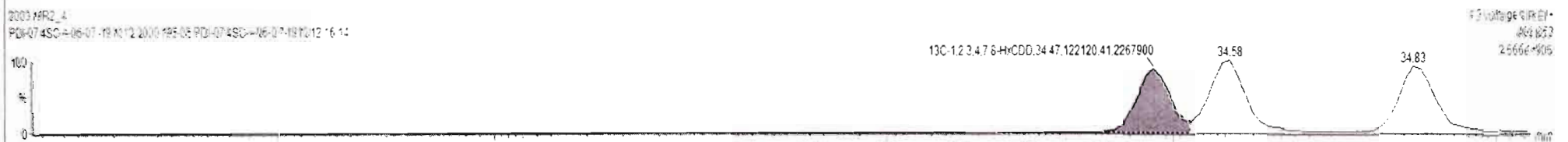
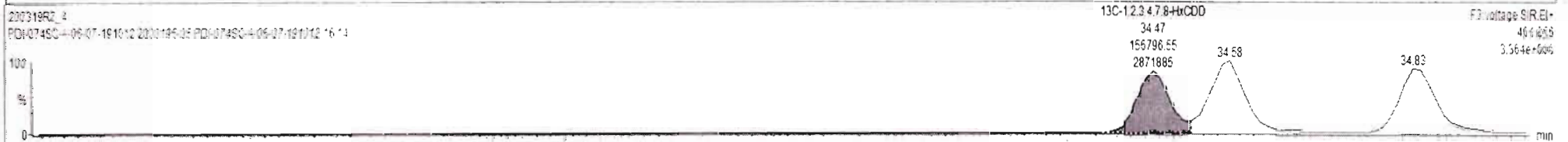
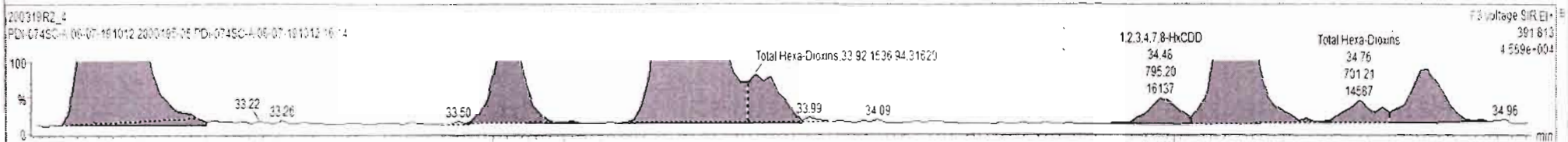
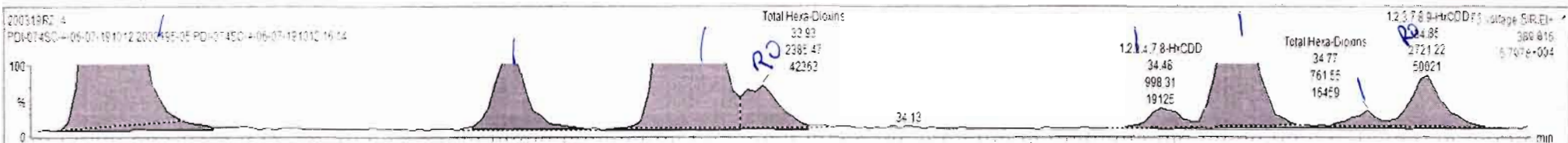
200319R2_4



200319R2_4 - 2000195-05 PDI-074SC-A-06-07-191012 16 14 - PDI-074SC-A-06-07-191012

Name	Resp	RA	n/y	RRF	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9805	10.019			2.64		0.112	4.30
40 Total Penta-Dioxins				0.5212	10.019			14.3		0.171	14.5
41 Total Hexa-Dioxins				0.9844	10.019			108		0.268	113
42 Total Hepta-Dioxins				1.0021	10.019			856		1.32	856
43 Total Tetra-Furane				0.6184	10.019			12.8		0.215	18.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.31	4.582e4	3.671e4	1.26	NO	54.391	54.391
2 Total Hexa-Dioxins	33.58	3.830e3	2.920e3	1.21	NO	4.4701	4.4701
3 Total Hexa-Dioxins	33.83	2.127e4	2.455e4	1.27	NO	36.968	36.968
4 Total Hexa-Dioxins	33.92	2.385e3	1.537e3	1.55	YES	2.2798	0.00200
5 1,2,3,4,7,8-HxCDD	34.48	9.583e2	7.952e2	1.26	NO	1.1334	1.1334
6 1,2,3,6,7,8-HxCDD	34.58	6.927e3	7.250e3	1.23	NO	9.9700	9.9700
7 Total Hexa-Dioxins	34.77	7.615e2	7.012e2	1.25	NO	0.96886	0.96886
8 1,2,3,7,8,9-HxCDD	34.85	2.721e3	1.902e3	1.42	ES	2.8300	0.00900



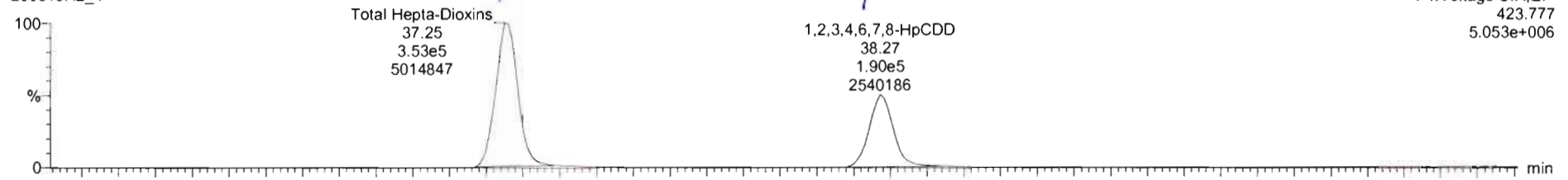
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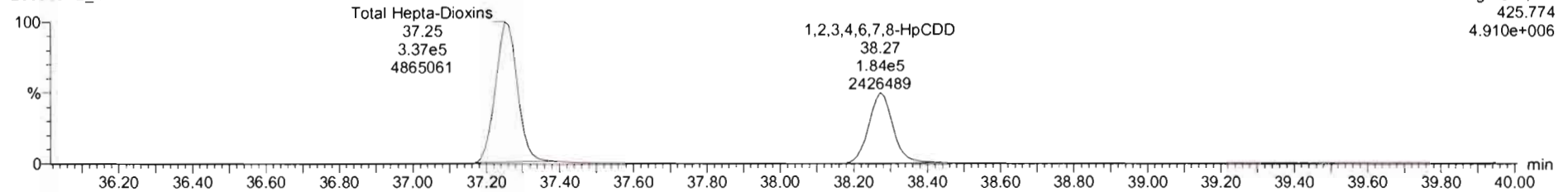
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1,2,3,4,6,7,8-HpCDD

200319R2_4

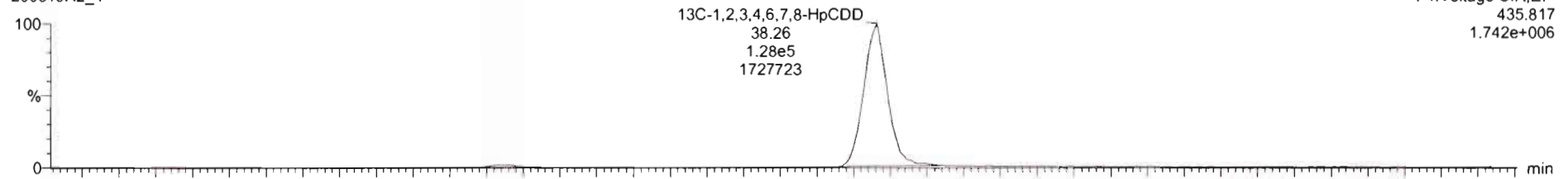


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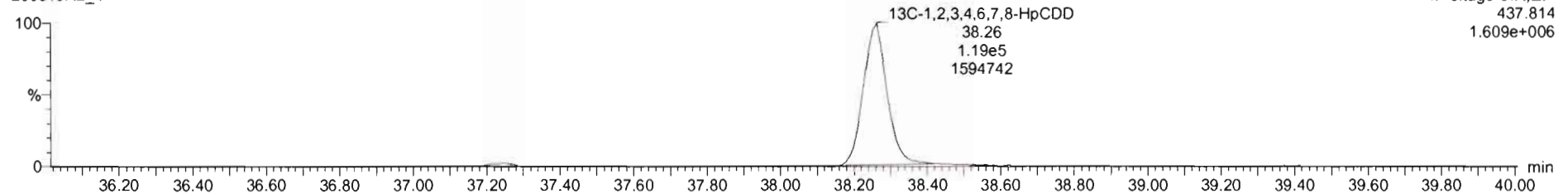


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200319R2_4



200319R2_4

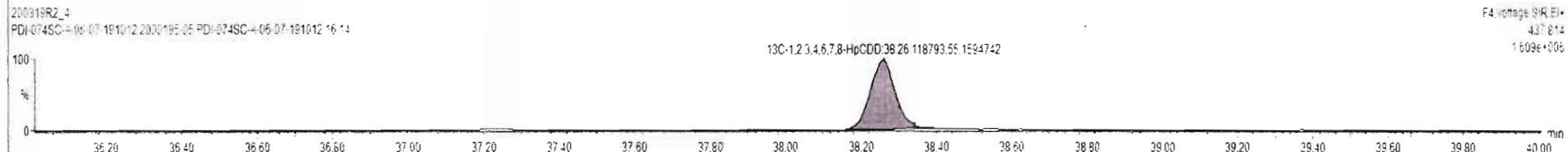
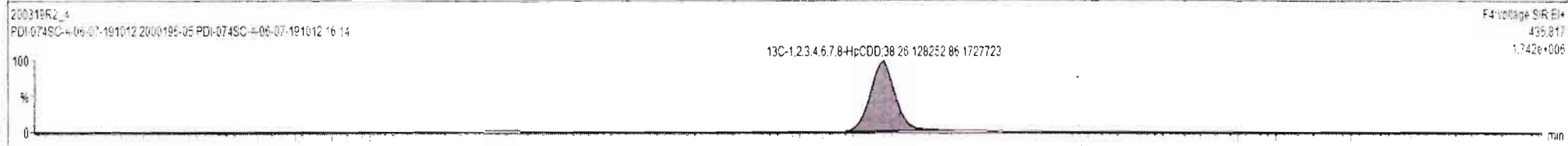
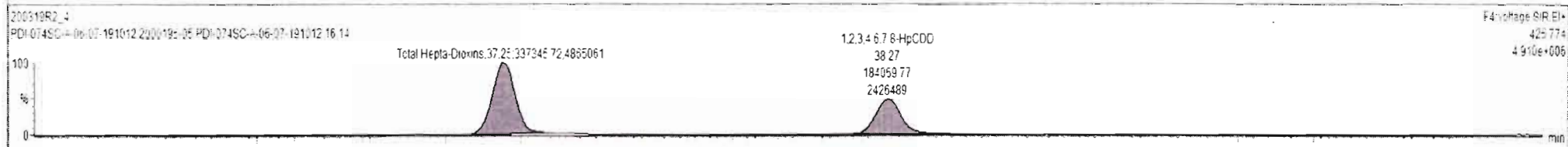
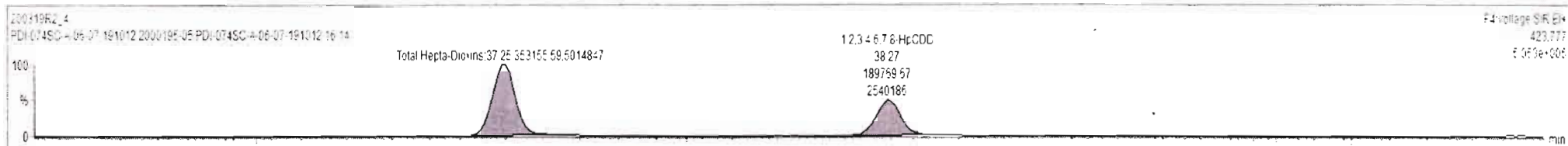




200319R2_4 - 2000195-05 PDI-074SC-A-06-07-191012 16 14 - PDI-074SC-A-06-07-191012

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
39 Total Tetra-Dioxins				0.9935	10.019			2.64	0.112	4.30	
40 Total Penta-Dioxins				0.9212	10.019			14.0	0.174	14.5	
41 Total Hexa-Dioxins				0.9844	10.019			108	0.258	113	
42 Total Hepta-Dioxins				1.0061	10.019			855	1.32	855	
43 Total Tetra-Furans				0.9114	10.019			12.8	0.207	13.1	

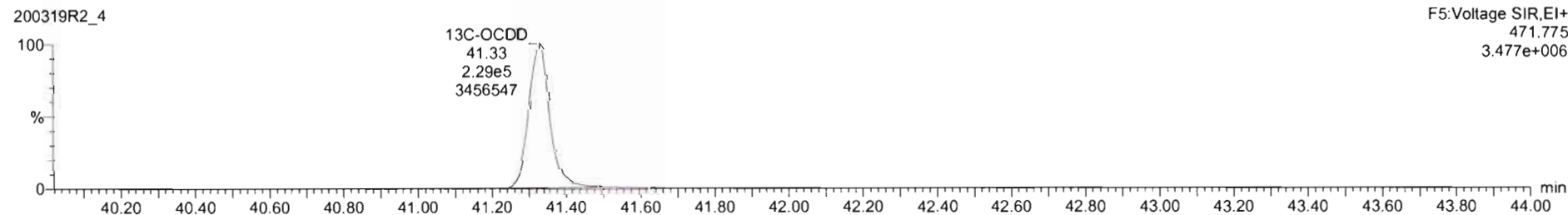
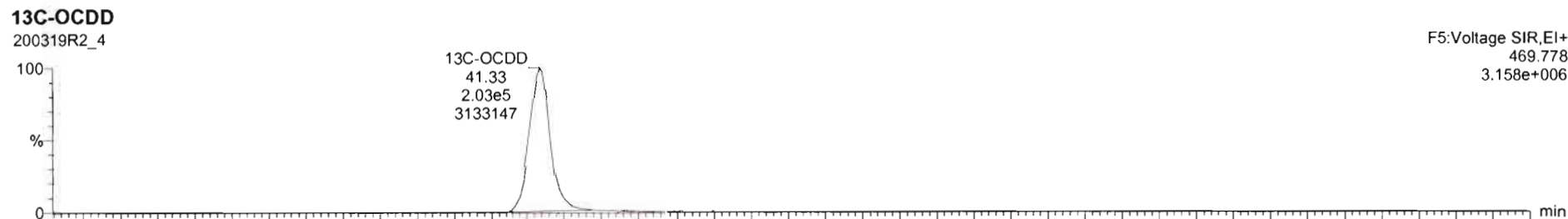
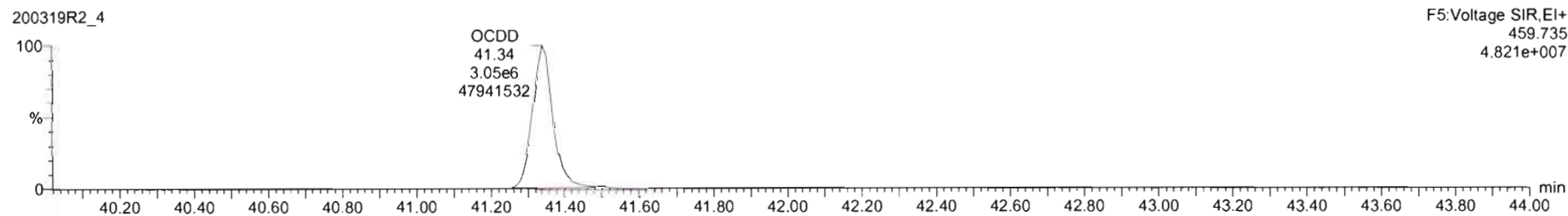
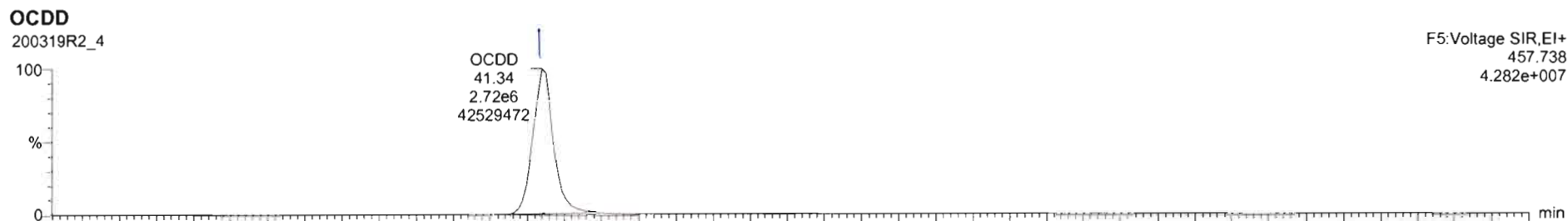
Name	RT	m1 Resp	m2 Resp	RA	n/y	EWPC	Conc.
1 Total Hepta-Dioxins	37.25	3.632e5	3.373e5	1.05	NO	554.58	554.58
2 1,2,3,4,6,7,8-HpCDD	38.27	1.899e5	1.841e5	1.03	NO	300.25	300.25



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Last Altered: Friday, March 20, 2020 09:12:07 Pacific Daylight Time
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Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

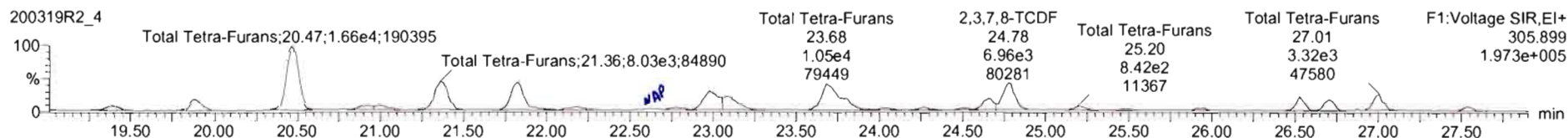
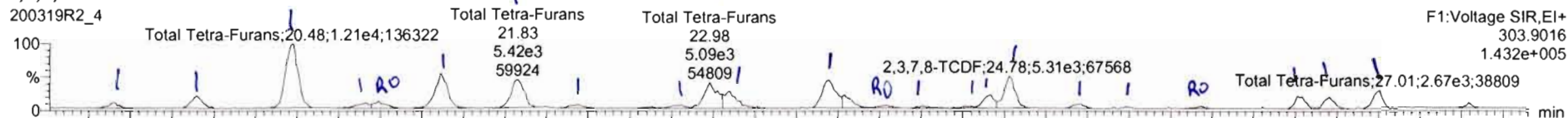


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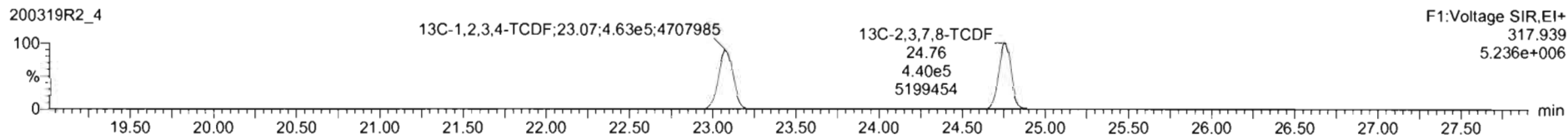
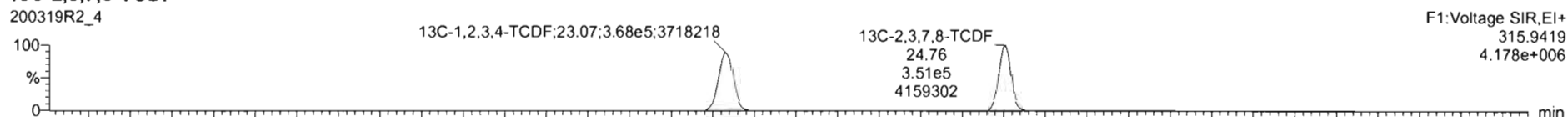
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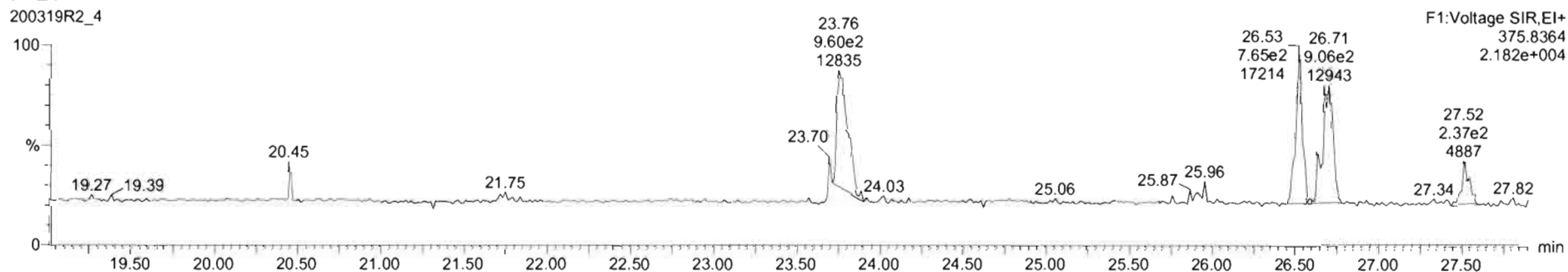
2,3,7,8-TCDF



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



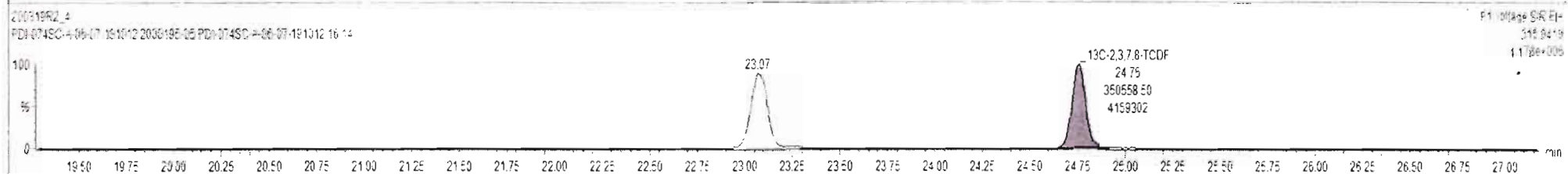
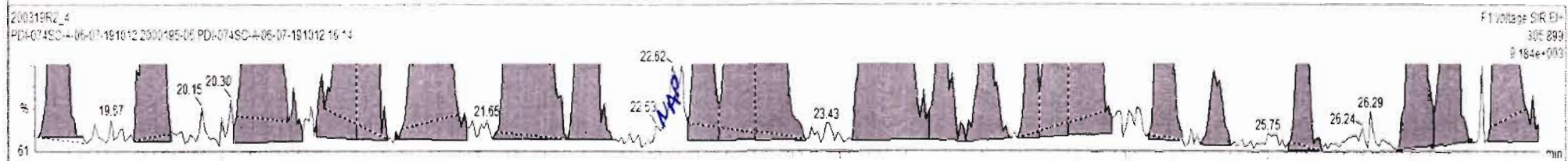
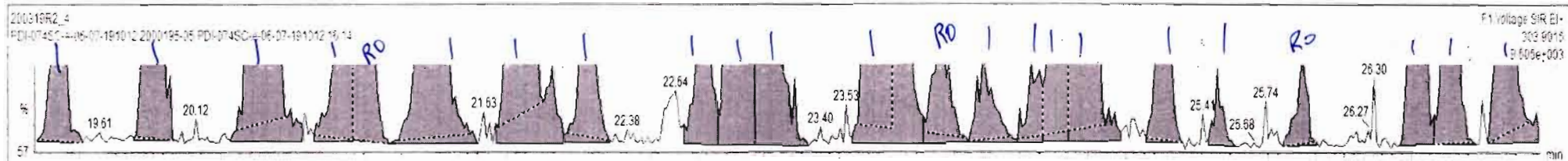
DPE1



200319R2_4 - 2000195-05 PDI-074SC-A-06-07-191012 16.14 - PDI-074SC-A-06-07-191012

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.019			39.1		0.202	40.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.39	0.050e2	1.091e2	0.74	NO	0.52320	0.52320
2 Total Tetra-Furans	19.90	2.044e2	2.647e2	0.77	NO	1.2942	1.2942
3 Total Tetra-Furans	20.48	1.247e4	1.895e4	0.74	NO	5.1181	5.1181
4 Total Tetra-Furans	20.92	9.736e2	1.385e2	0.71	NO	0.64513	0.64513
5 Total Tetra-Furans	20.99	1.182e2	1.142e2	1.02	YES	0.55782	0.00000
6 Total Tetra-Furans	21.36	6.423e2	8.299e2	0.77	NO	4.0617	4.0617
7 Total Tetra-Furans	21.82	6.994e2	7.847e2	0.76	NO	3.5106	3.5106
8 Total Tetra-Furans	22.19	7.197e2	8.951e2	0.80	NO	0.44553	0.44553
9 Total Tetra-Furans	22.80	6.459e2	7.426e2	0.87	NO	0.30338	0.00000
10 Total Tetra-Furans	22.98	5.091e2	6.066e2	0.84	NO	0.0780	3.0780
11 Total Tetra-Furans	22.10	2.287e2	4.113e2	0.80	NO	2.0417	2.0417
12 Total Tetra-Furans	23.70	7.781e2	1.048e4	0.74	NO	5.0375	5.0375
13 Total Tetra-Furans	24.04	5.832e2	5.868e2	1.15	YES	0.24747	0.00000
14 Total Tetra-Furans	24.25	4.127e2	6.010e2	0.69	NO	0.27967	0.27967
15 Total Tetra-Furans	24.51	3.044e2	3.563e2	0.85	NO	0.18229	0.18229
16 Total Tetra-Furans	24.57	2.188e2	2.828e2	0.77	NO	1.3667	1.3667
17 2,3,7,8-TCDF	24.78	5.515e2	7.136e2	0.77	NO	3.4602	3.4602
18 Total Tetra-Furans	25.21	7.492e2	5.582e2	0.87	NO	0.44350	0.44350
19 Total Tetra-Furans	25.48	1.689e2	2.398e2	0.70	NO	0.11274	0.11274
20 Total Tetra-Furans	25.93	2.891e2	4.672e2	0.62	YES	0.19321	0.00000
21 Total Tetra-Furans	26.51	1.952e2	2.574e2	0.76	NO	1.2485	1.2485
22 Total Tetra-Furans	26.71	1.742e2	2.380e2	0.74	NO	1.1317	1.1317
23 Total Tetra-Furans	27.01	2.825e2	3.594e2	0.79	NO	1.7736	1.7736



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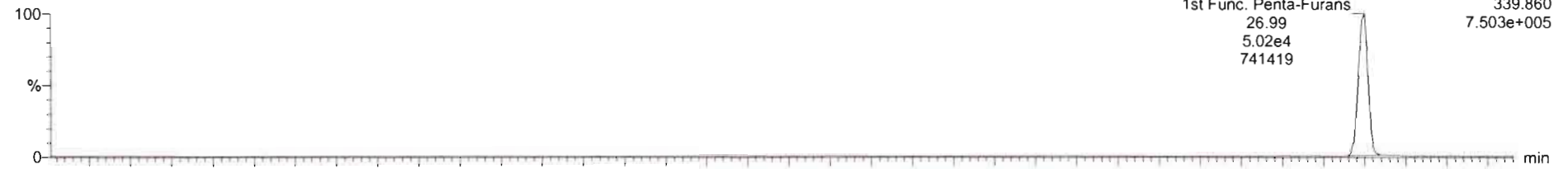
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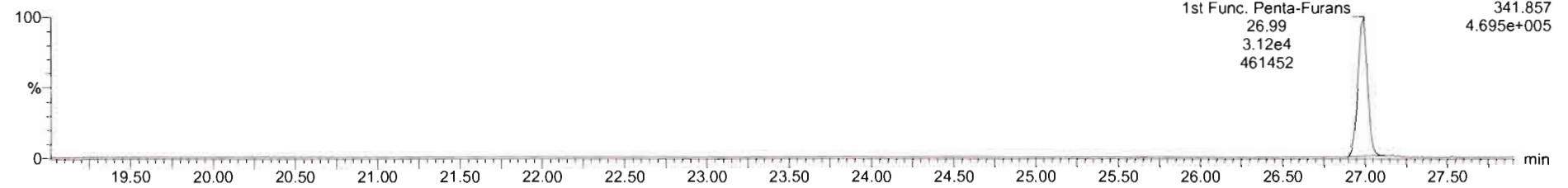
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1st Func. Penta-Furans

200319R2_4

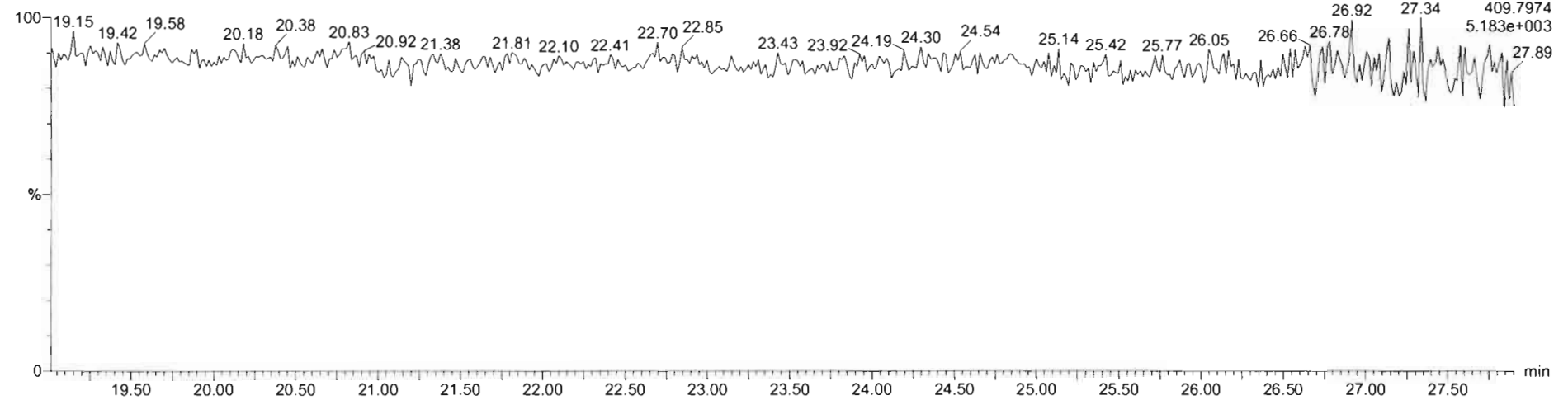


200319R2_4



DPE6

200319R2_4

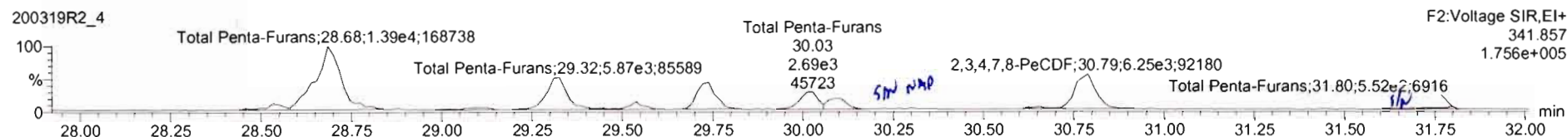
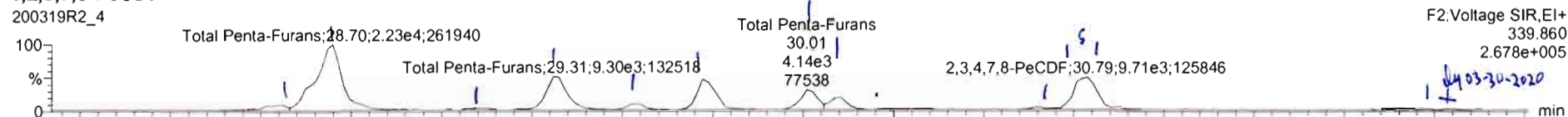


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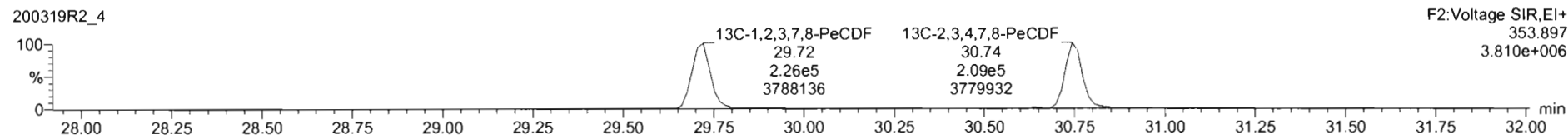
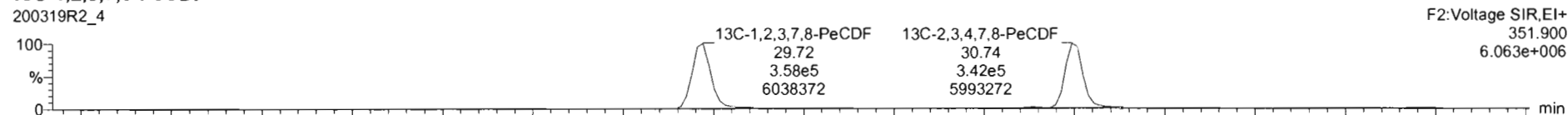
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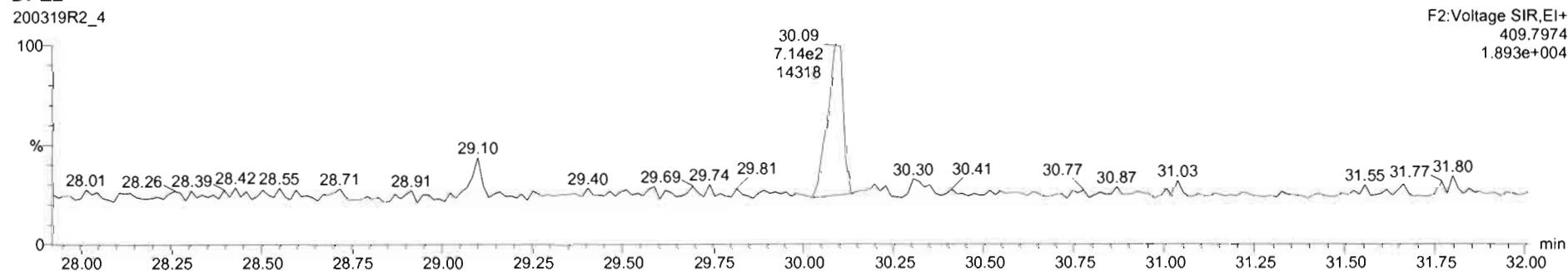
1,2,3,7,8-PeCDF



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



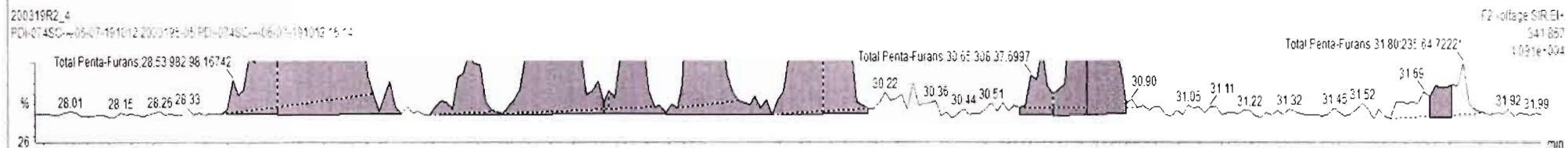
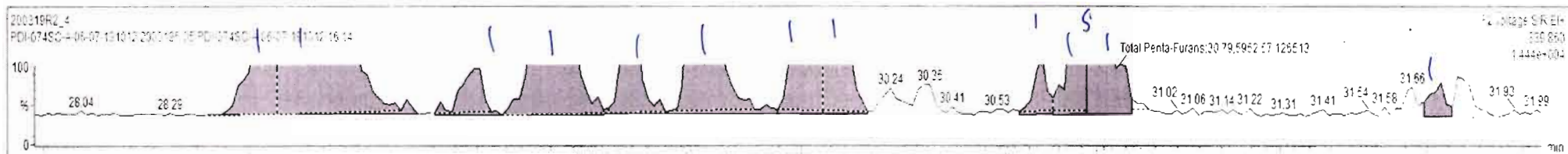
DPE2



200319R2_4 - 2000195-05 PDI-074SC-A-06-07-191012 16 14 - PDI-074SC-A-06-07-191012

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.019			36.3		0.279	36.5
46 Total Hexa-Furans				1.0522	10.019			93.7		0.155	94.5

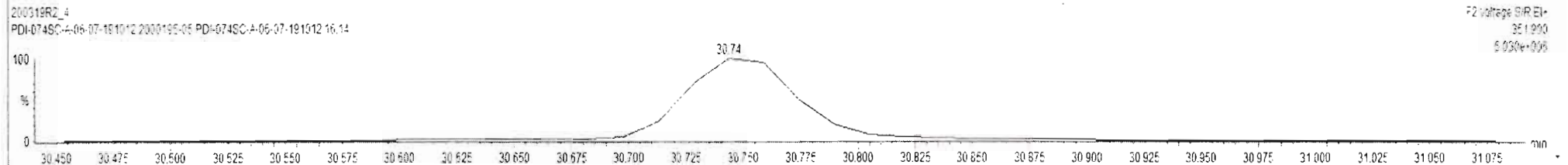
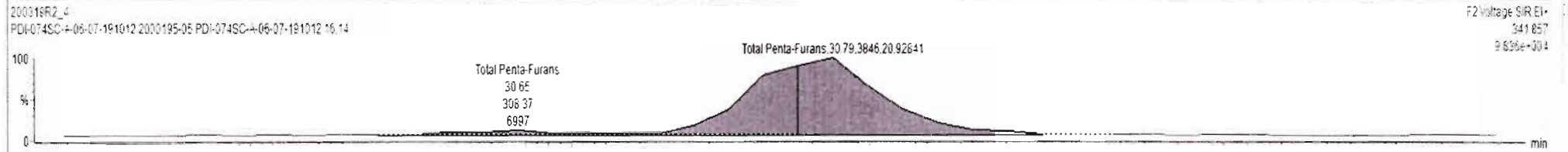
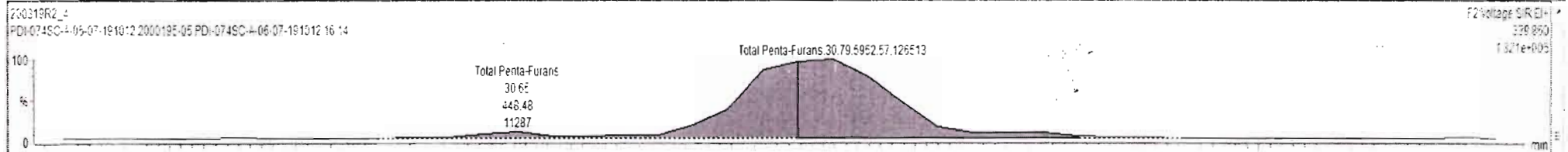
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.56	1.680e3	9.630e2	1.69	NO	0.96960	0.96960
2 Total Penta-Furans	28.70	2.253e4	1.438e4	1.57	NO	12.539	12.539
3 Total Penta-Furans	28.11	8.574e2	4.635e2	1.95	NO	0.41714	0.41714
4 Total Penta-Furans	28.31	9.335e3	5.625e3	1.58	NO	5.5976	5.5976
5 Total Penta-Furans	28.54	1.477e3	9.934e2	1.49	NO	0.90605	0.90605
6 1,2,3,7,8-PeCDF	28.72	7.486e2	4.550e2	1.65	NO	4.2873	4.2873
7 Total Penta-Furans	30.01	4.228e3	2.711e3	1.56	NO	2.5440	2.5440
8 Total Penta-Furans	30.10	2.783e3	1.788e3	1.56	NO	1.8803	1.8803
9 Total Penta-Furans	30.25	4.485e2	3.084e2	1.45	NO	0.27761	0.27761
10 2,3,4,7,8-PeCDF	30.77	3.855e3	2.521e3	1.52	NO	2.3059	2.3059
11 Total Penta-Furans	30.79	5.953e3	3.846e3	1.55	NO	2.5941	2.5941
12 Total Penta-Furans	31.74	2.955e2	1.872e2	1.58	NO	0.17707	0.17707
13 Total Penta-Furans	31.76	4.126e2	2.256e2	1.75	NO	0.23779	0.00000



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Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	Dil	EMPC
45 Total Penta-Furans				0.9594	10.019			36.5		0.279	36.7

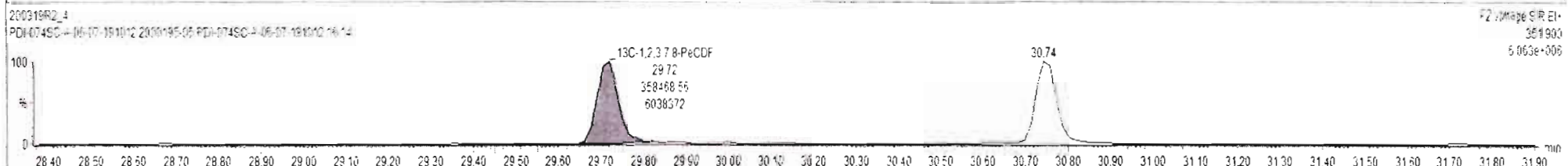
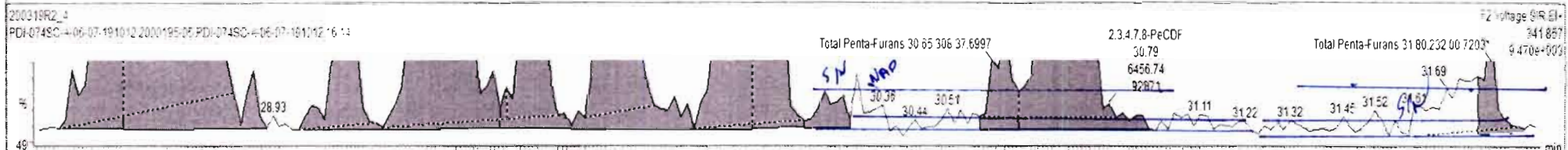
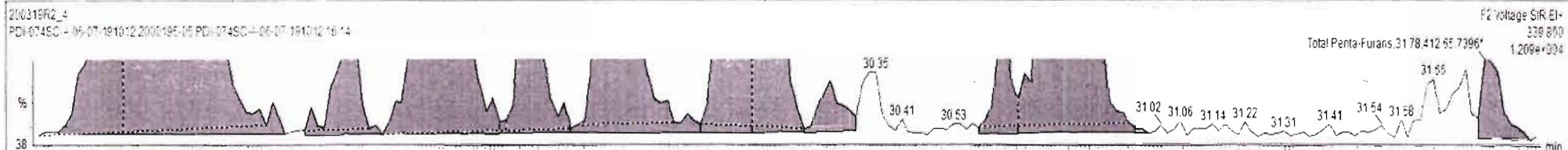
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.56	1.650e3	5.830e2	1.69	NO	0.90960	0.90960
2 Total Penta-Furans	28.70	2.253e4	1.438e4	1.57	NO	12.539	12.539
3 Total Penta-Furans	29.11	6.534e2	4.839e2	1.35	NO	0.41714	0.41714
4 Total Penta-Furans	29.31	9.236e3	5.925e3	1.58	NO	5.5978	5.5978
5 Total Penta-Furans	29.54	1.477e3	9.934e2	1.49	NO	0.90605	0.90605
6 1,2,3,7,8-PeCDF	29.72	7.486e3	4.650e3	1.65	NO	4.2673	4.2673
7 Total Penta-Furans	30.01	4.225e3	2.711e3	1.56	NO	2.5440	2.5440
8 Total Penta-Furans	30.10	2.793e2	1.766e2	1.56	NO	1.8803	1.8803
9 Total Penta-Furans	30.65	4.485e2	3.064e2	1.45	NO	0.27781	0.27781
10 2,3,4,7,8-PeCDF	30.77	3.858e2	2.521e2	1.50	NO	2.2069	2.2069
11 Total Penta-Furans	30.79	5.553e3	3.846e3	1.55	NO	3.5941	3.5941
12 Total Penta-Furans	31.74	2.656e2	1.872e2	1.42	NO	0.16608	0.16608
13 Total Penta-Furans	31.74	2.955e2	1.872e2	1.58	NO	0.17707	0.17707
14 Total Penta-Furans	31.78	4.126e2	2.356e2	1.75	NO	0.23779	0.00000



200319R2_4 - 2000195-05 PDI-074SC-A-06-07-191012 16 14 - PDI-074SC-A-06-07-191012

Name	Resp	RA	nly	RF	wtVal	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.019			36.3		0.279	36.5

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.56	1.662e3	5.830e2	1.69	NO	0.96560	0.96560
2 Total Penta-Furans	28.78	2.253e4	1.438e4	1.57	NO	13.539	13.539
3 Total Penta-Furans	29.11	6.534e2	4.839e2	1.35	NO	0.41714	0.41714
4 Total Penta-Furans	29.31	9.036e3	5.925e2	1.58	NO	5.5976	5.5976
5 Total Penta-Furans	29.54	1.477e3	9.934e2	1.49	NO	0.50605	0.50605
6 1,2,3,7,8-PeCDF	29.72	7.495e2	4.550e3	1.25	NO	4.2673	4.2673
7 Total Penta-Furans	30.01	4.225e3	2.711e3	1.56	NO	2.5440	2.5440
8 Total Penta-Furans	30.10	2.733e2	1.788e3	1.56	NO	1.6802	1.6802
9 Total Penta-Furans	30.24	2.112e2	1.414e2	1.49	NO	0.12934	0.12934
10 Total Penta-Furans	30.65	4.523e2	3.084e2	1.47	NO	0.27599	0.27599
11 2,3,4,7,8-PeCDF	30.79	9.923e2	6.457e3	1.54	NO	5.9205	5.9205
12 Total Penta-Furans	31.78	4.594e2	5.956e2	0.76	YES	0.27180	0.00000

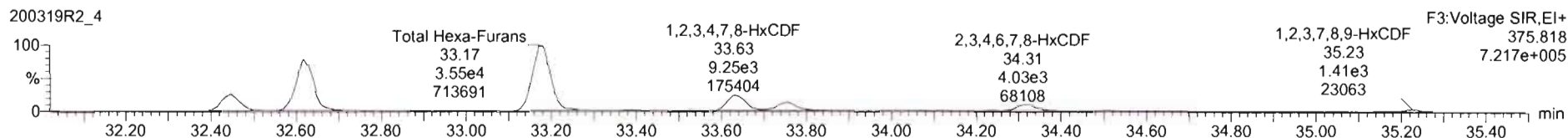
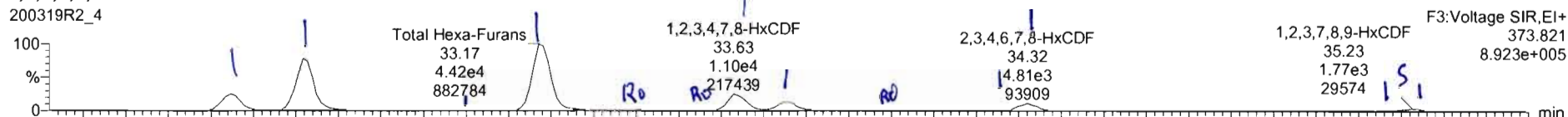


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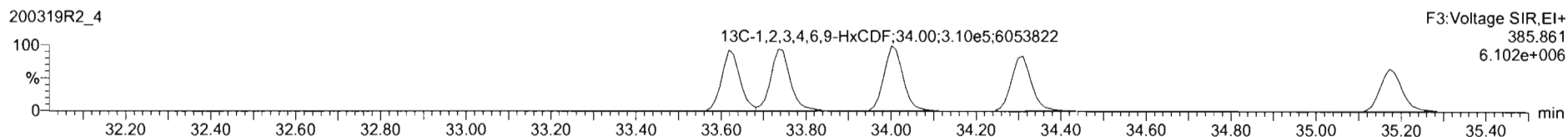
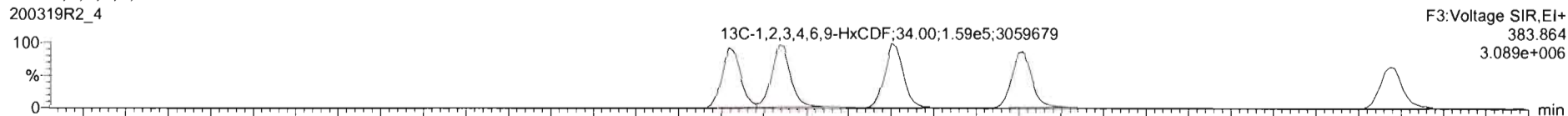
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Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

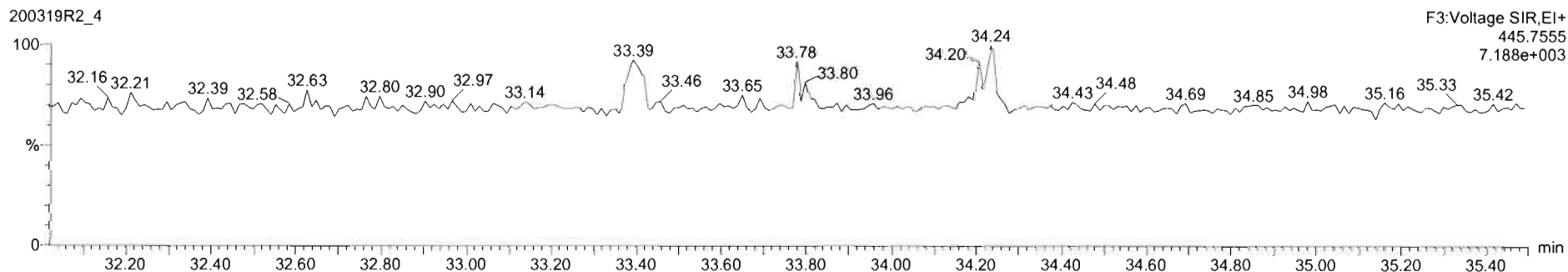
1,2,3,4,7,8-HxCDF



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



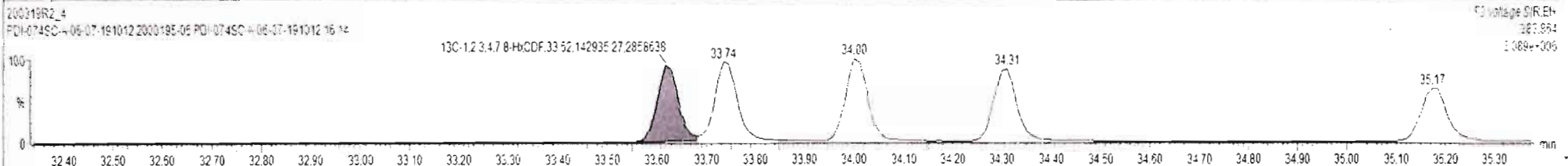
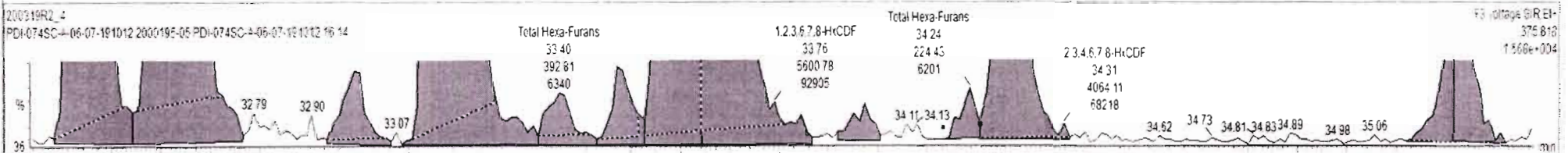
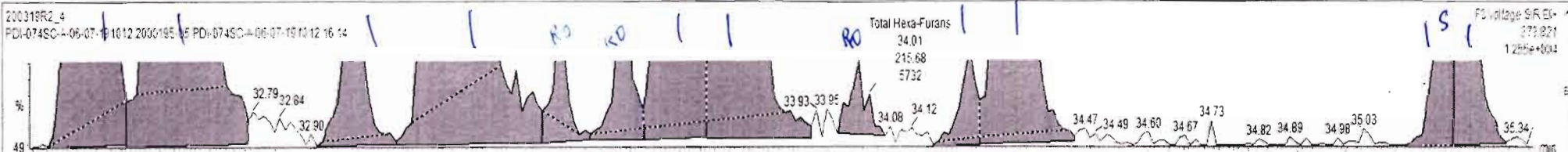
DPE3



200319R2_4 - 2000195-05 PDI-074SC-A-06-07-191012 16.14 - PDI-074SC-A-06-07-191012

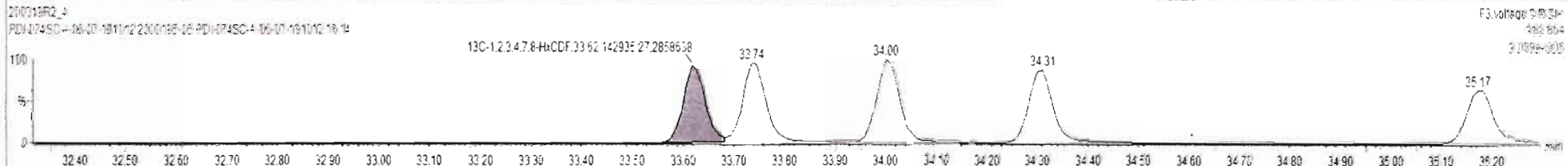
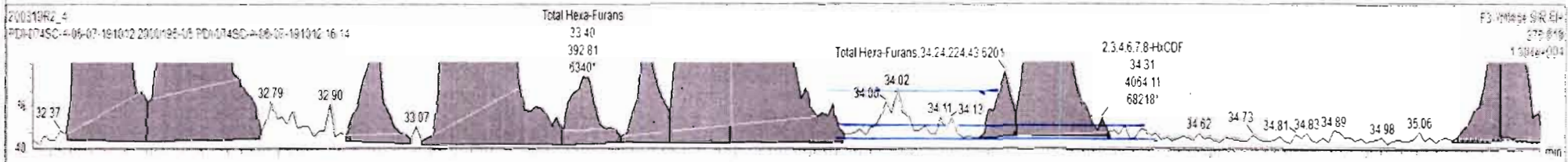
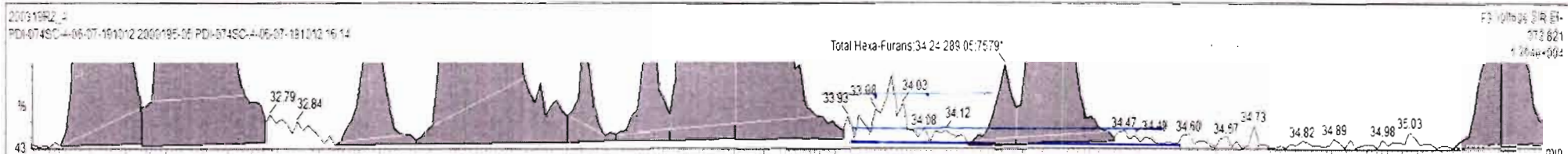
Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0920	10.019			93.7		0.155	94.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	1.151e4	9.505e2	1.21	NO	9.2967	9.2967
2 Total Hexa-Furans	32.62	2.457e4	2.787e4	1.24	NO	27.624	27.624
3 Total Hexa-Furans	32.90	6.502e2	4.683e2	1.23	NO	0.50361	0.50361
4 Total Hexa-Furans	33.17	4.528e4	2.625e4	1.25	NO	36.072	36.072
5 Total Hexa-Furans	33.46	3.397e2	3.928e2	0.96	YES	0.27150	0.00000
6 Total Hexa-Furans	33.54	4.692e2	4.591e2	1.02	YES	0.37496	0.00000
7 1,2,3,4,7,8-HxCDF	33.63	1.114e4	9.379e3	1.19	NO	9.3635	9.3635
8 1,2,3,6,7,8-HxCDF	33.76	6.352e3	5.601e3	1.12	NO	5.1536	5.1536
9 Total Hexa-Furans	34.01	2.157e2	2.680e2	1.04	YES	0.17230	0.00000
10 Total Hexa-Furans	34.24	2.891e2	2.244e2	1.29	NO	0.22716	0.22716
11 2,3,4,6,7,8-HxCDF	34.32	4.941e3	4.084e3	1.22	NO	3.9325	3.9325
12 1,2,3,7,8,9-HxCDF	35.22	6.673e2	5.035e2	1.32	NO	0.64041	0.64041
13 Total Hexa-Furans	35.23	1.105e2	9.111e2	1.22	NO	0.89365	0.89365



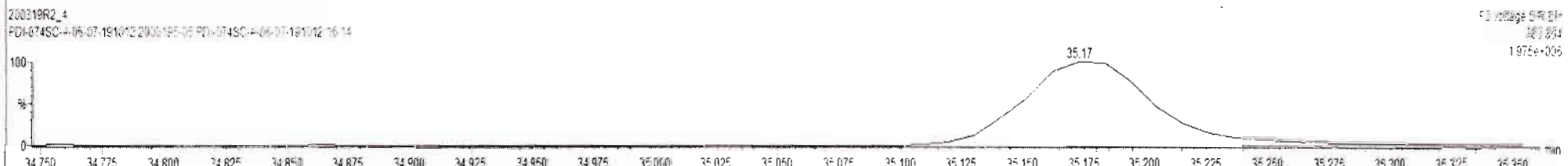
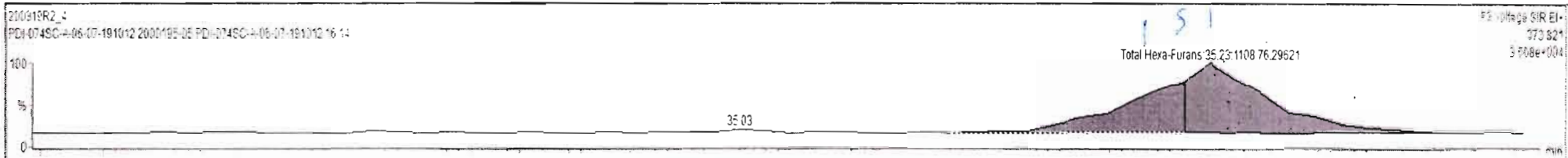
Name	Resp	RA	n/y	RF-F	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0920	10.019			91.4		0.155	91.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	1.124e4	9.074e3	1.24	NO	8.9882	8.9882
2 Total Hexa-Furans	32.62	3.355e4	2.684e4	1.25	NO	26.720	26.720
3 Total Hexa-Furans	32.96	5.559e2	4.028e2	1.38	NO	0.42481	0.42481
4 Total Hexa-Furans	33.17	4.421e4	3.546e4	1.25	NO	35.248	35.248
5 Total Hexa-Furans	33.40	2.117e2	2.495e2	0.85	YES	0.16920	0.00500
6 Total Hexa-Furans	33.54	3.899e2	3.570e2	1.05	NO	0.33045	0.33045
7 1,2,3,4,7,8-HxCDF	33.83	1.100e4	9.251e3	1.19	NO	9.2407	9.2407
8 1,2,3,6,7,8-HxCDF	33.76	6.000e3	5.129e3	1.17	NO	4.8030	4.8030
9 Total Hexa-Furans	34.24	2.411e2	2.244e2	1.07	NO	0.20590	0.20590
10 2,3,4,6,7,8-HxCDF	34.32	4.805e3	4.034e3	1.19	NO	3.8600	3.8600
11 1,2,3,6,8,9-HxCDF	35.22	6.673e2	5.039e2	1.32	NO	0.64041	0.64041
12 Total Hexa-Furans	35.22	1.109e3	9.111e2	1.22	NO	0.88365	0.88365



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.019			36.3		0.275	36.5

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.45	1.124e4	9.074e3	1.24	NO	8.9862	8.9862
2 Total Hexa-Furans	32.62	3.355e4	2.694e4	1.25	NO	26.720	26.720
3 Total Hexa-Furans	32.98	5.559e2	4.026e2	1.26	NO	0.42461	0.42461
4 Total Hexa-Furans	33.17	4.421e4	3.546e4	1.25	NO	35.248	35.248
5 Total Hexa-Furans	33.40	2.117e2	2.495e2	0.25	-ES	0.16920	0.03000
6 Total Hexa-Furans	33.54	0.899e2	2.570e2	1.09	NO	0.33045	0.33045
7 1,2,3,4,7,8-HxCDF	33.63	1.100e4	9.251e3	1.19	NO	9.2407	9.2407
8 1,2,3,5,7,8-HxCDF	33.76	2.000e3	5.125e3	1.17	NO	4.8030	4.8030
9 Total Hexa-Furans	34.24	2.411e2	2.244e2	1.07	NO	0.20598	0.20598
10 2,3,4,6,7,8-HxCDF	34.32	4.805e3	4.034e3	1.19	NO	3.8600	3.8600
11 1,2,3,7,8,9-HxCDF	35.22	6.673e2	5.039e2	1.32	NO	0.64041	0.64041
12 Total Hexa-Furans	35.23	1.105e3	9.111e2	1.22	NO	0.89365	0.89365



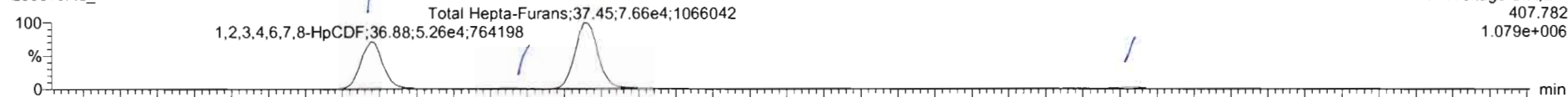
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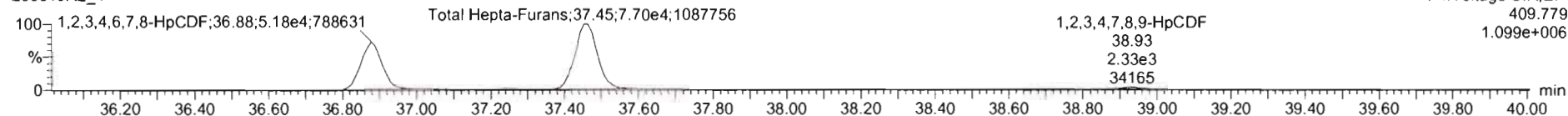
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200319R2_4

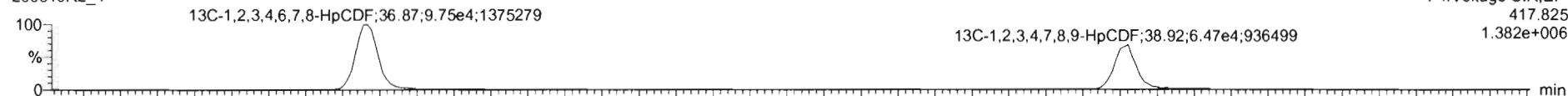


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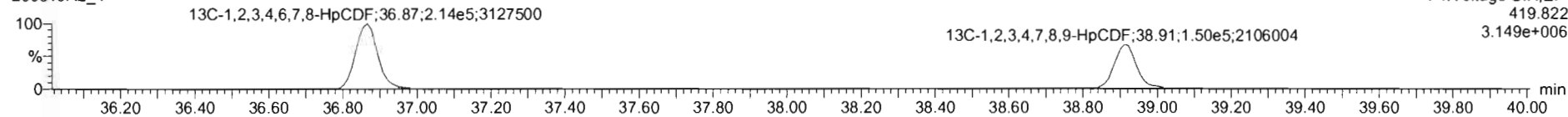


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200319R2_4

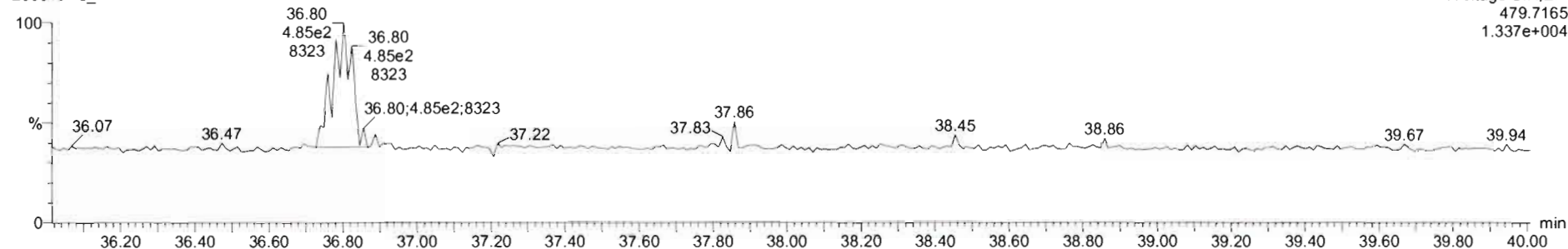


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DPE4

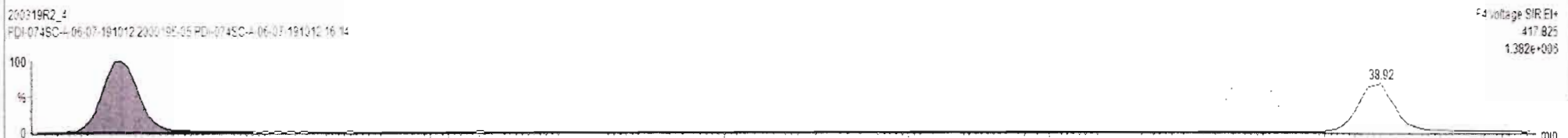
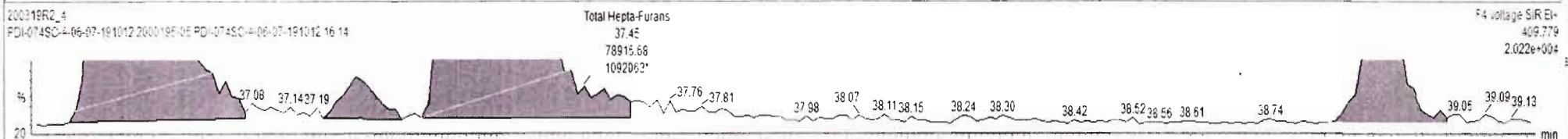
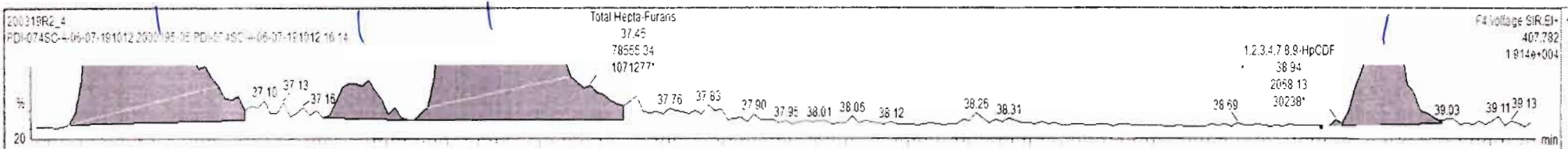
200319R2_4



200319R2_4 - 2000195-05 PDI-074SC-A-06-07-191012 16 14 - PDI-074SC-A-06-07-191012

Name	Resp	RA	n/y	R/Rf	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0320	10.019			92.7		0.155	94.5
47 Total Hepta-Furans				1.0320	10.019			92.7		0.155	94.5

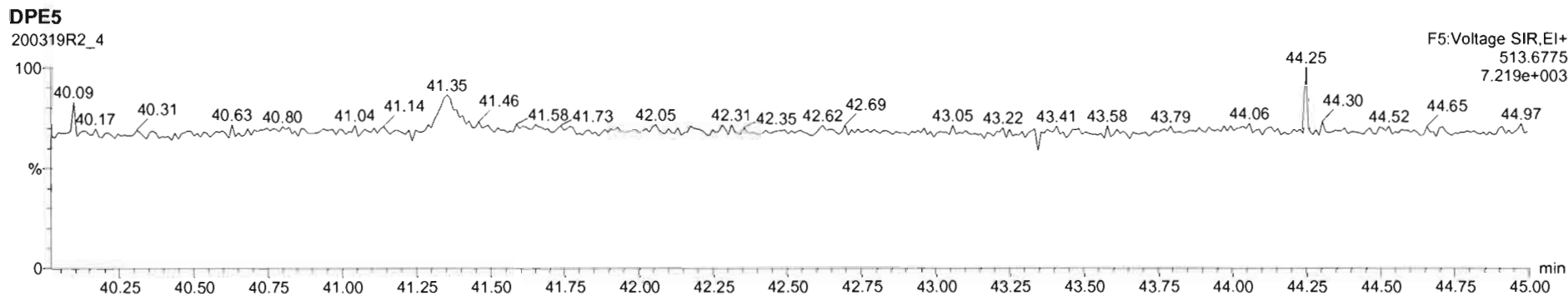
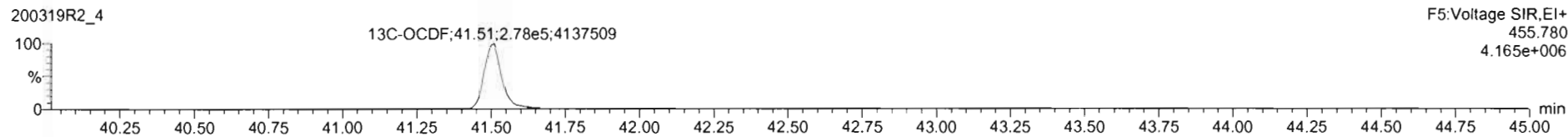
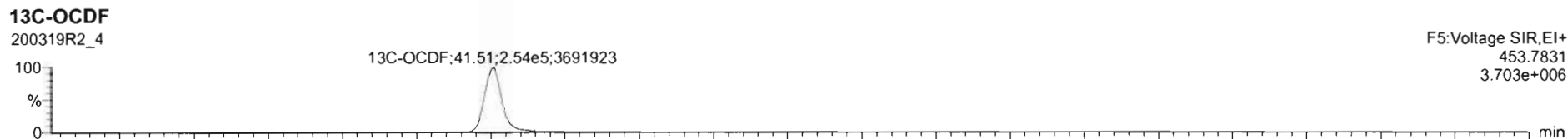
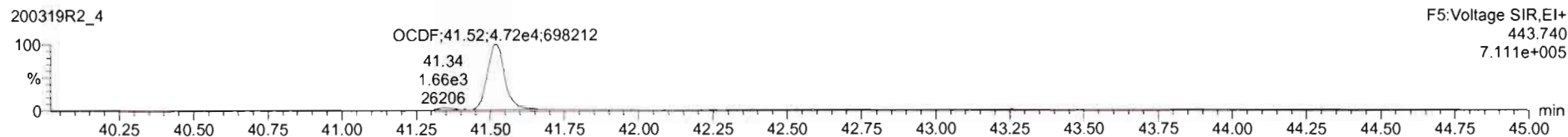
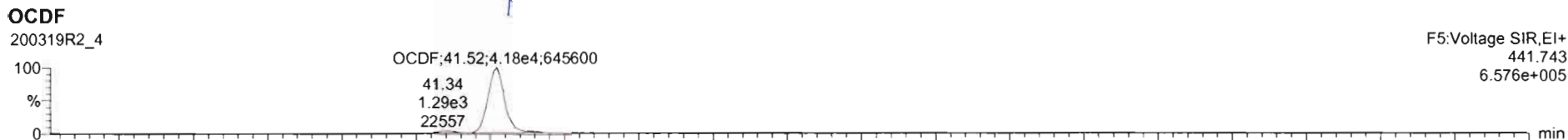
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	38.88	5.255e4	5.176e4	1.01	NO	63.705	63.705
2 Total Hepta-Furans	37.27	5.992e2	5.991e2	1.00	NO	0.86745	0.86745
3 Total Hepta-Furans	37.45	7.656e4	7.703e4	0.95	NO	111.119	111.119
4 1,2,3,4,7,8,9-HpCDF	38.94	2.129e1	2.525e3	0.92	NO	7.4380	3.4380



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Printed: Friday, March 20, 2020 09:12:35 Pacific Daylight Time

Name: 200319R2_4, Date: 20-Mar-2020, Time: 07:32:59, ID: 2000195-05 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

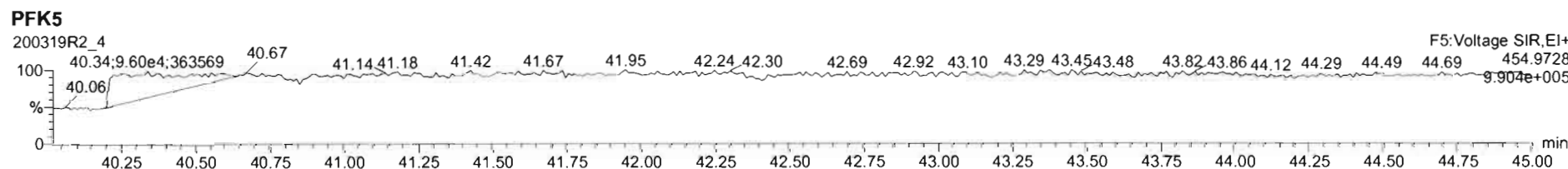
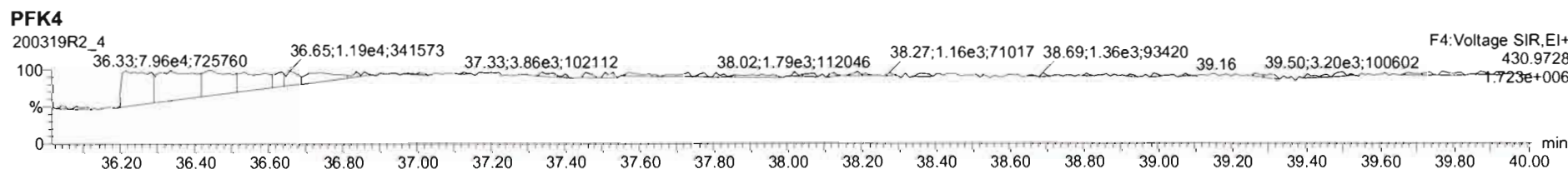
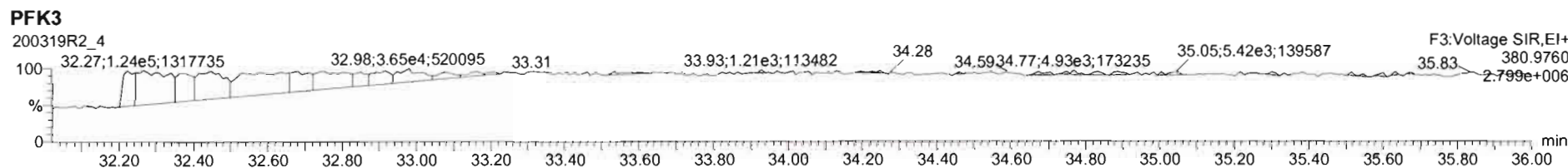
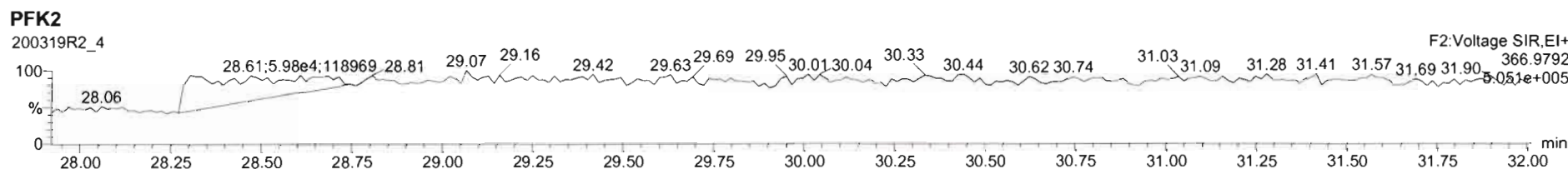
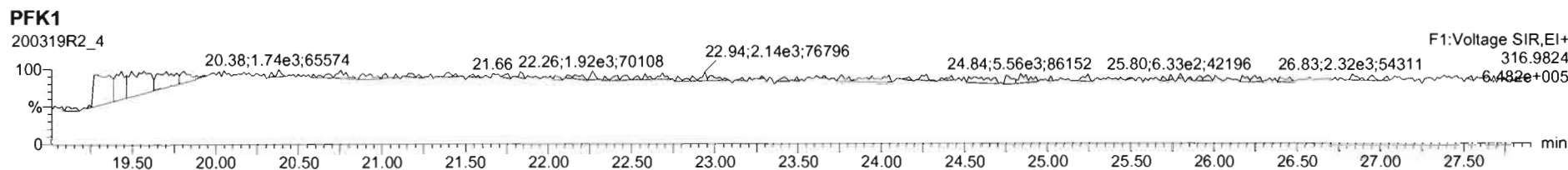


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by 03-26-2020

3/28/20

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07/01/2020

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#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.983	10.011	25.766		1.001				0.0809	
2	2 1,2,3,7,8-PeCDD			NO	0.921	10.011	31.071		1.001				0.103	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.011	34.469		1.000				0.0857	
4	4 1,2,3,6,7,8-HxCDD			NO	0.984	10.011	34.555		1.000				0.0854	
5	5 1,2,3,7,8,9-HxCDD			NO	0.967	10.011	34.831		1.000				0.0964	
6	6 1,2,3,4,6,7,8-HpCDD	2.31e3	1.17	NO	1.01	10.011	38.262	38.25	1.000	1.000	1.4651		0.172	1.47
7	7 OCDD	1.87e4	0.90	NO	1.05	10.011	41.308	41.33	1.000	1.001	13.409		0.142	13.4
8	8 2,3,7,8-TCDF			NO	0.915	10.011	24.758		1.001				0.0529	
9	9 1,2,3,7,8-PeCDF	3.25e2	1.11	YES	0.959	10.011	29.712	29.71	1.001	1.001	0.099232		0.0305	0.0860
10	10 2,3,4,7,8-PeCDF			NO	1.00	10.011	30.759		1.001				0.0523	
11	11 1,2,3,4,7,8-HxCDF	3.30e2	1.37	NO	1.04	10.011	33.607	33.63	1.000	1.001	0.12434		0.0435	0.124
12	12 1,2,3,6,7,8-HxCDF			NO	1.01	10.011	33.734		1.000				0.0632	
13	13 2,3,4,6,7,8-HxCDF			NO	1.09	10.011	34.323		1.001				0.0686	
14	14 1,2,3,7,8,9-HxCDF	8.00e1	1.05	YES	1.03	10.011	35.162	35.16	1.000	1.000	0.035448		0.0612	0.0328
15	15 1,2,3,4,6,7,8-HpCDF	4.07e2	1.02	NO	1.05	10.011	36.893	36.87	1.001	1.000	0.20048		0.0567	0.200
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.21	10.011	38.901		1.000				0.0655	
17	17 OCDF	7.27e2	0.79	NO	0.947	10.011	41.489	41.51	1.000	1.001	0.44685		0.0974	0.447
18	18 13C-2,3,7,8-TCDD	6.12e5	0.80	NO	1.18	10.011	25.720	25.74	1.029	1.029	186.87	93.5	0.294	
19	19 13C-1,2,3,7,8-PeCDD	4.25e5	0.64	NO	0.864	10.011	30.900	31.05	1.236	1.242	177.92	89.1	0.406	
20	20 13C-1,2,3,4,7,8-HxCDD	3.38e5	1.27	NO	0.754	10.011	34.463	34.46	1.014	1.014	163.50	81.8	0.354	
21	21 13C-1,2,3,6,7,8-HxCDD	4.17e5	1.28	NO	0.925	10.011	34.572	34.56	1.017	1.017	163.99	82.1	0.289	
22	22 13C-1,2,3,7,8,9-HxCDD	3.84e5	1.26	NO	0.829	10.011	34.834	34.82	1.025	1.024	168.77	84.5	0.322	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.13e5	1.05	NO	0.598	10.011	38.294	38.25	1.127	1.125	190.73	95.5	0.498	
24	24 13C-OCDD	5.31e5	0.90	NO	0.571	10.011	41.445	41.31	1.219	1.215	338.54	84.7	0.533	
25	25 13C-2,3,7,8-TCDF	9.16e5	0.79	NO	1.09	10.011	24.742	24.73	0.990	0.989	174.83	87.5	0.312	
26	26 13C-1,2,3,7,8-PeCDF	6.82e5	1.61	NO	0.876	10.011	29.572	29.69	1.183	1.188	161.80	81.0	0.594	
27	27 13C-2,3,4,7,8-PeCDF	6.60e5	1.60	NO	0.844	10.011	30.582	30.73	1.223	1.229	162.84	81.5	0.617	
28	28 13C-1,2,3,4,7,8-HxCDF	5.11e5	0.51	NO	1.00	10.011	33.610	33.61	0.989	0.989	186.16	93.2	0.394	
29	29 13C-1,2,3,6,7,8-HxCDF	5.54e5	0.51	NO	1.12	10.011	33.719	33.72	0.992	0.992	180.43	90.3	0.352	
30	30 13C-2,3,4,6,7,8-HxCDF	5.21e5	0.53	NO	1.04	10.011	34.300	34.29	1.009	1.009	183.43	91.8	0.381	
31	31 13C-1,2,3,7,8,9-HxCDF	4.39e5	0.52	NO	0.873	10.011	35.174	35.16	1.035	1.034	183.16	91.7	0.451	

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-5.qld

Last Altered: Thursday, March 26, 2020 8:17:40 AM Pacific Daylight Time
Printed: Thursday, March 26, 2020 8:22:01 AM Pacific Daylight Time

Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc:	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	3.87e5	0.44	NO	0.771	10.011	36.890	36.86	1.085	1.084	183.00	91.6	0.508	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.75e5	0.43	NO	0.519	10.011	38.977	38.90	1.147	1.144	192.77	96.5	0.754	
34	34 13C-OCDF	6.86e5	0.88	NO	0.696	10.011	41.625	41.49	1.225	1.221	359.08	89.9	0.502	
35	35 37Cl-2,3,7,8-TCDD	2.48e5			1.17	10.011	25.730	25.75	1.029	1.030	76.237	95.4	0.116	
36	36 13C-1,2,3,4-TCDD	5.52e5	0.80	NO	1.00	10.011	25.050	25.00	1.000	1.000	199.79	100	0.348	
37	37 13C-1,2,3,4-TCDF	9.61e5	0.80	NO	1.00	10.011	23.190	23.04	1.000	1.000	199.79	100	0.340	
38	38 13C-1,2,3,4,6,9-HxCDF	5.49e5	0.53	NO	1.00	10.011	33.880	33.99	1.000	1.000	199.79	100	0.394	
39	39 Total Tetra-Dioxins				0.983	10.011	24.620		0.000		0.37947		0.0809	0.379
40	40 Total Penta-Dioxins				0.921	10.011	29.960		0.000		0.00000		0.0491	0.129
41	41 Total Hexa-Dioxins				0.984	10.011	33.635		0.000		0.74770		0.0925	1.04
42	42 Total Hepta-Dioxins				1.01	10.011	37.640		0.000		3.5711		0.172	3.57
43	43 Total Tetra-Furans				0.915	10.011	23.610		0.000		0.00000		0.0228	0.158
44	44 1st Func. Penta-Furans				0.959	10.011	27.090		0.000				0.0162	
45	45 Total Penta-Furans				0.959	10.011	29.275		0.000		0.093080		0.0303	0.179
46	46 Total Hexa-Furans				1.09	10.011	33.555		0.000		0.12434		0.0450	0.243
47	47 Total Hepta-Furans				1.05	10.011	37.835		0.000		0.20048		0.0645	0.453

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-5.qld

Last Altered: Thursday, March 26, 2020 8:17:40 AM Pacific Daylight Time

Printed: Thursday, March 26, 2020 8:22:01 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.24	5.149e3	6.982e3	4.610e2	6.820e2	0.68	NO	1.143e3	0.37947	0.37947	0.0809

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.25	3.452e3	3.633e3	1.646e2	1.552e2	1.06	YES	0.000e0	0.00000	0.12904	0.0491

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	1.423e4	1.452e4	7.599e2	6.393e2	1.19	NO	1.399e3	0.74770	0.74770	0.0925
2	Total Hexa-Dioxins	33.82	7.643e3	3.836e3	3.469e2	2.419e2	1.43	YES	0.000e0	0.00000	0.28956	0.0925

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.25	2.540e4	2.423e4	1.666e3	1.656e3	1.01	NO	3.322e3	2.1060	2.1060	0.172
2	1,2,3,4,6,7,8-HpCDD	38.25	1.789e4	1.402e4	1.247e3	1.064e3	1.17	NO	2.311e3	1.4651	1.4651	0.172

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.44	4.712e3	3.967e3	3.631e2	3.751e2	0.97	YES	0.000e0	0.00000	0.15824	0.0529

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\200319R2\200319R2-5.qld

Last Altered: Thursday, March 26, 2020 8:17:40 AM Pacific Daylight Time

Printed: Thursday, March 26, 2020 8:22:01 AM Pacific Daylight Time

Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8-PeCDF	29.71	3.609e3	2.629e3	1.712e2	1.537e2	1.11	YES	3.249e2	0.00000	0.086011	0.0305
2	Total Penta-Furans	30.06	5.585e3	4.121e3	1.762e2	1.238e2	1.42	NO	3.000e2	0.093080	0.093080	0.0303

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	33.15	3.760e3	1.333e3	1.246e2	6.212e1	2.01	YES	0.000e0	0.00000	0.050276	0.0450
2	1,2,3,4,7,8-HxCDF	33.63	4.785e3	2.548e3	1.909e2	1.394e2	1.37	NO	3.303e2	0.12434	0.12434	0.0435
3	1,2,3,7,8,9-HxCDF	35.16	1.687e3	1.253e3	4.102e1	3.896e1	1.05	YES	7.998e1	0.00000	0.032843	0.0612
4	Total Hexa-Furans	35.18	4.477e3	1.552e3	1.035e2	4.438e1	2.33	YES	0.000e0	0.00000	0.035922	0.0450

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	36.87	3.807e3	2.893e3	2.057e2	2.016e2	1.02	NO	4.073e2	0.20048	0.20048	0.0567
2	Total Hepta-Furans	37.45	4.274e3	2.642e3	2.598e2	2.151e2	1.21	YES	0.000e0	0.00000	0.25263	0.0645

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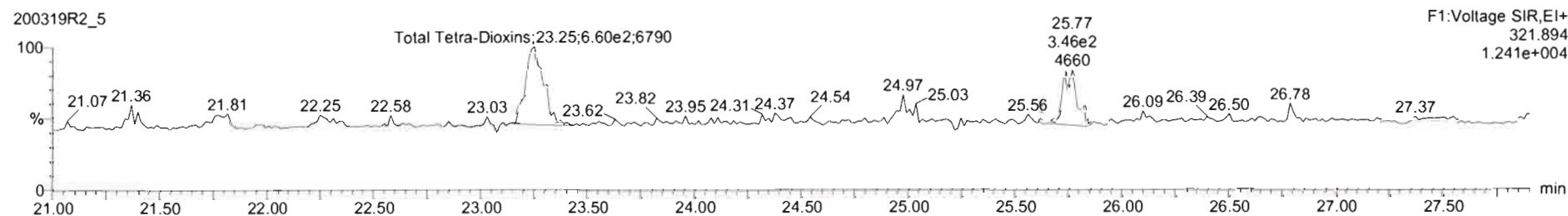
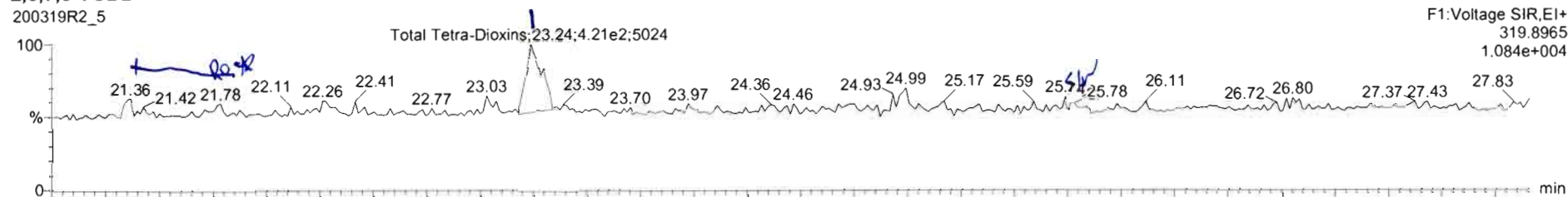
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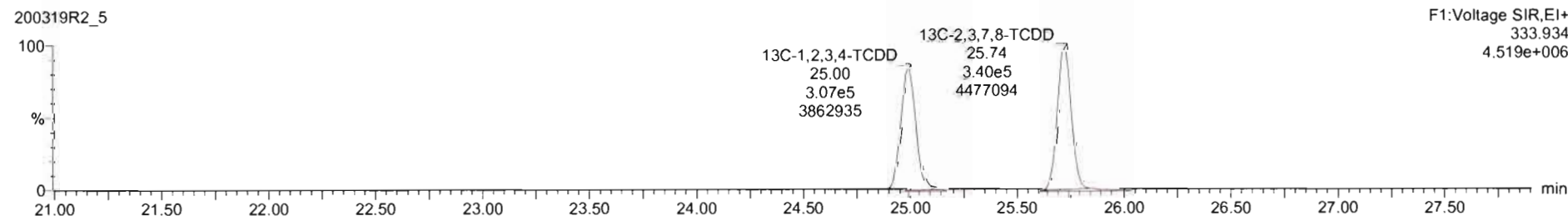
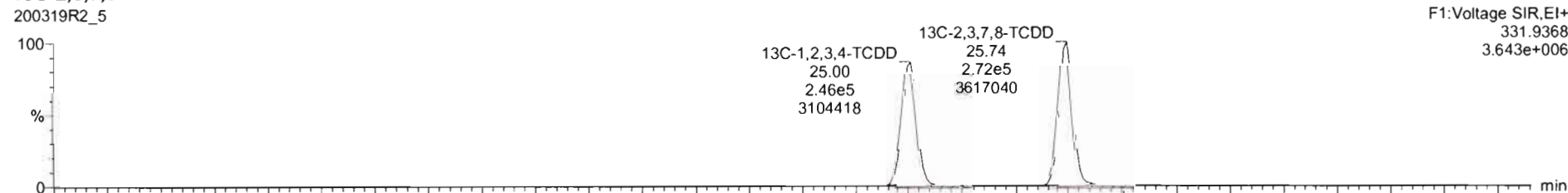
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2,3,7,8-TCDD



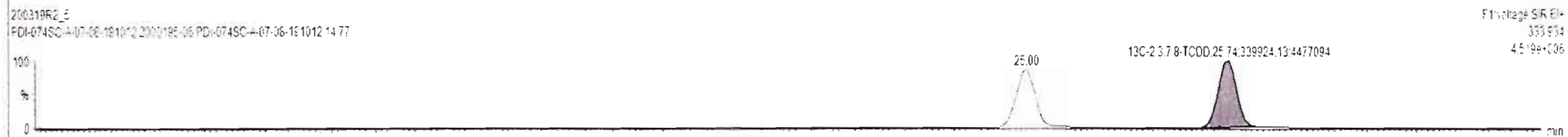
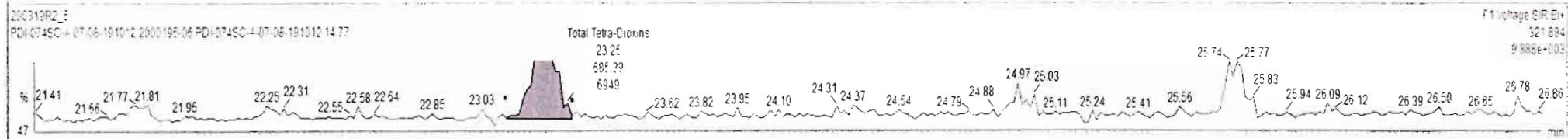
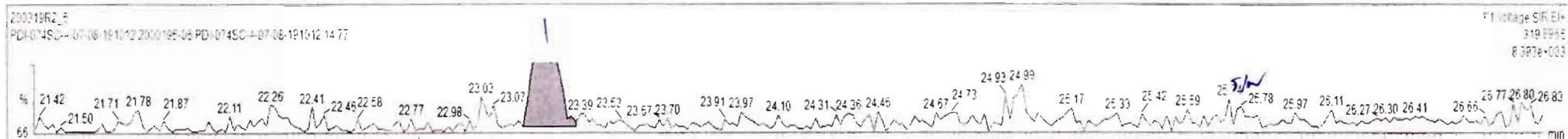
13C-2,3,7,8-TCDD



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14 77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	nly	RRF	w%vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.011			0.381		0.0609	0.381
40 Total Penta-Dioxins				0.5212	10.011					0.0481	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	22.24	4.610e2	6.854e2	0.67	NO	0.38090	0.38090



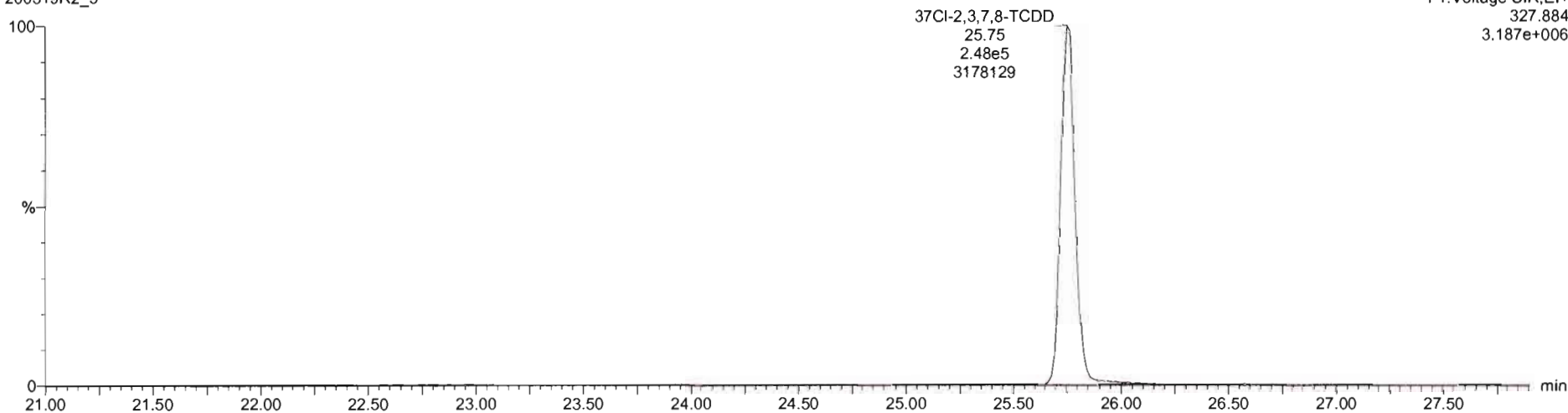
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Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

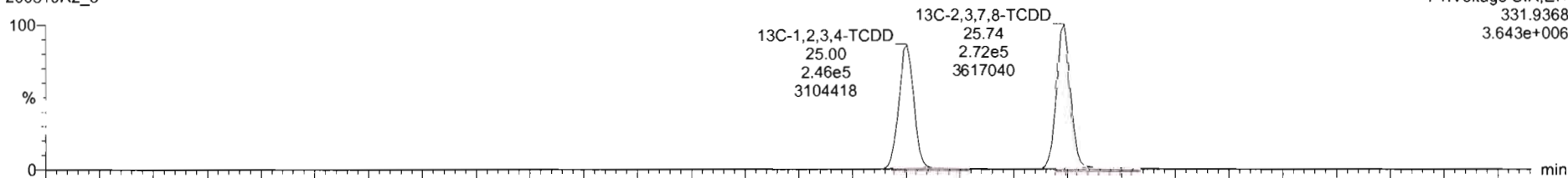
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200319R2_5

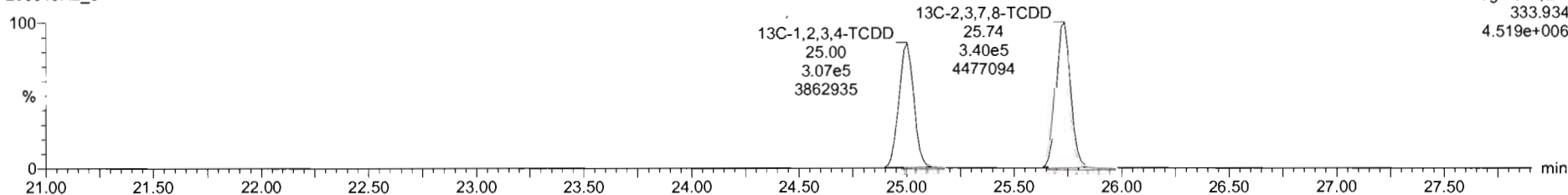


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200319R2_5



200319R2_5



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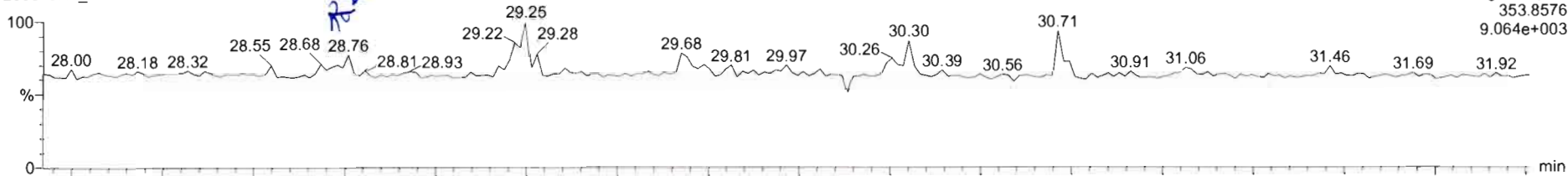
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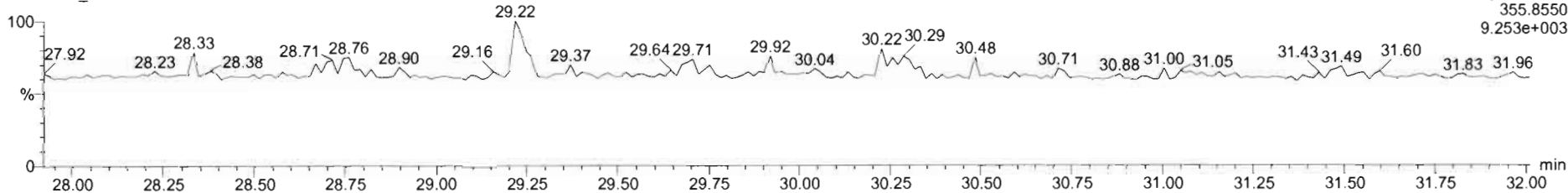
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1,2,3,7,8-PeCDD

200319R2_5

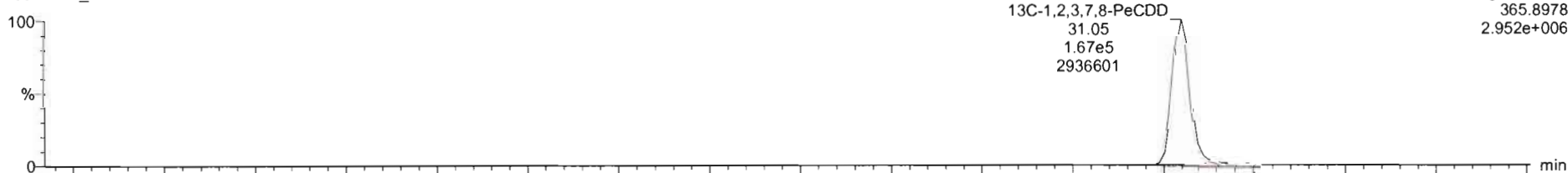


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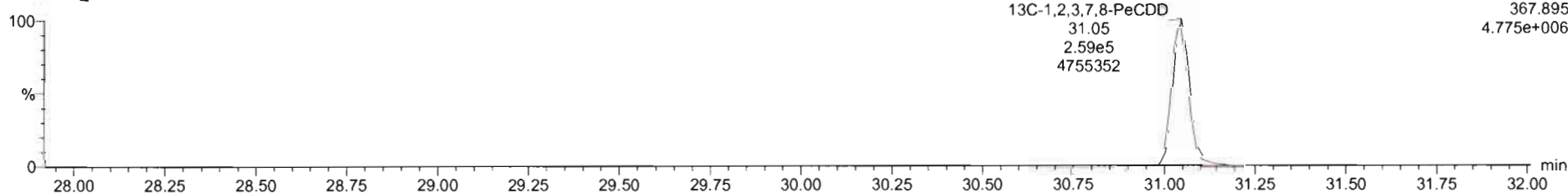


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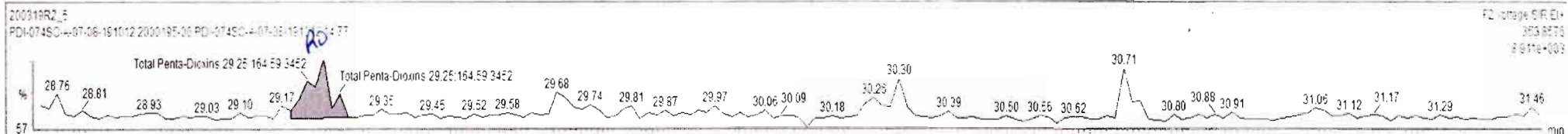


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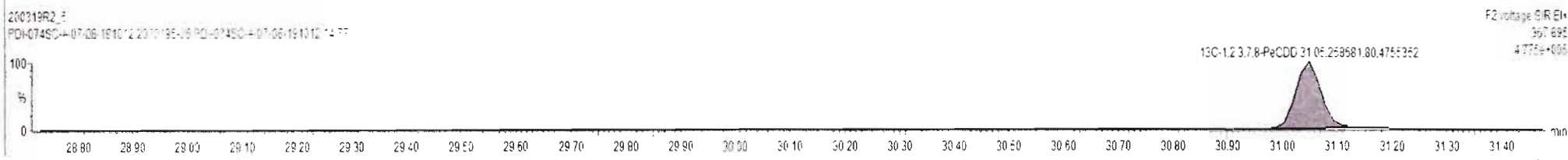
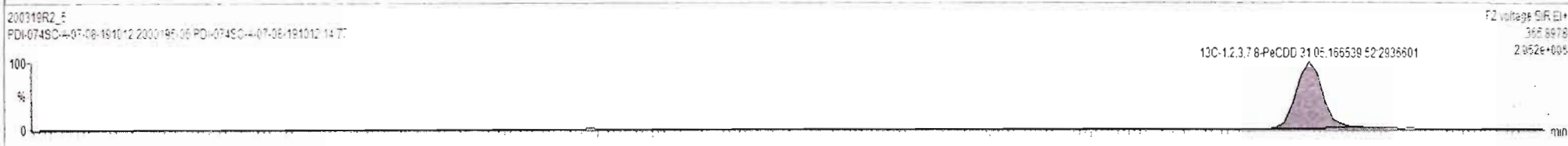
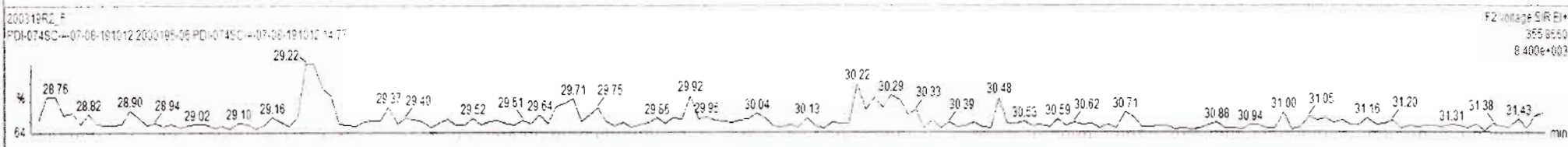
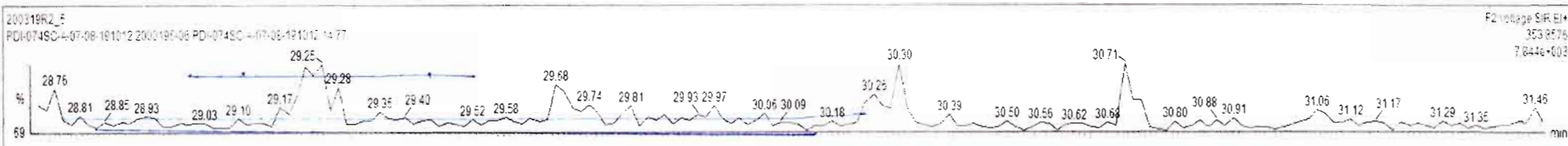
Name	Reso	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
38 Total Tetra-Dioxins				0.9825	10.011			0.279		0.0836	0.379
40 Total Penta-Dioxins				0.9212	10.011			0.000		0.0491	0.129

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	29.25	1.646e2	1.552e2	1.06	YES	0.12504	0.00000



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9335	10.011			0.379		0.0808	0.379
40 Total Penta-Dioxins				0.9212	10.011					0.0491	

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

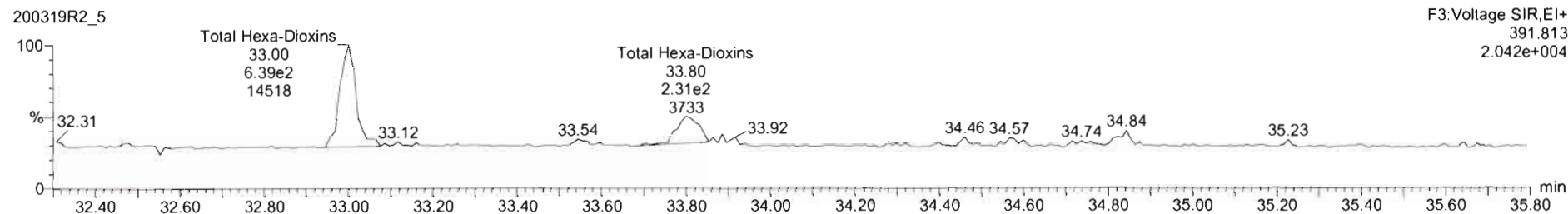
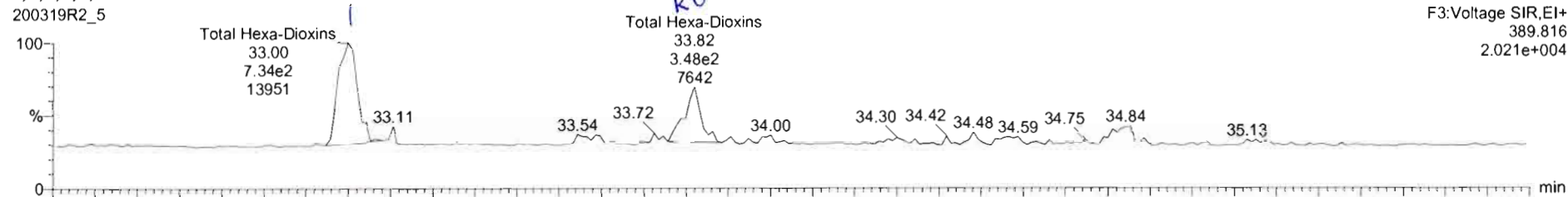


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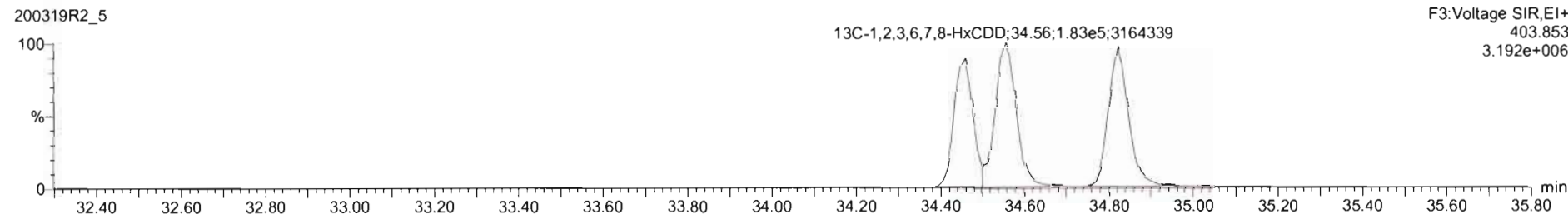
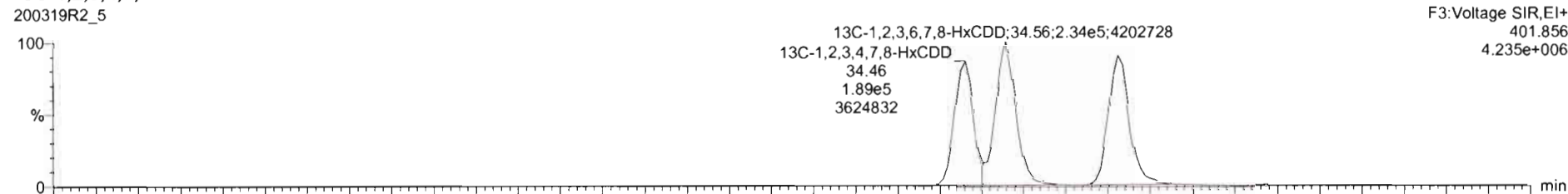
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1,2,3,4,7,8-HxCDD



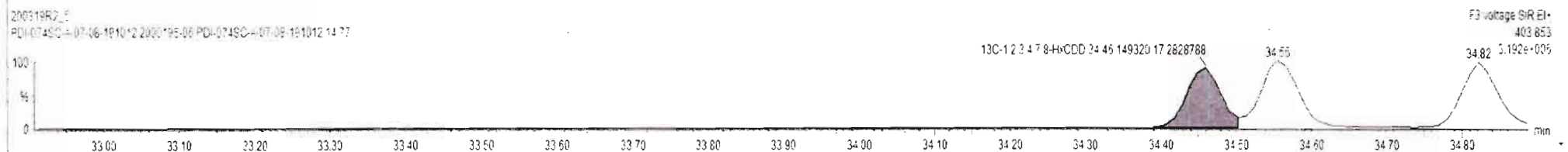
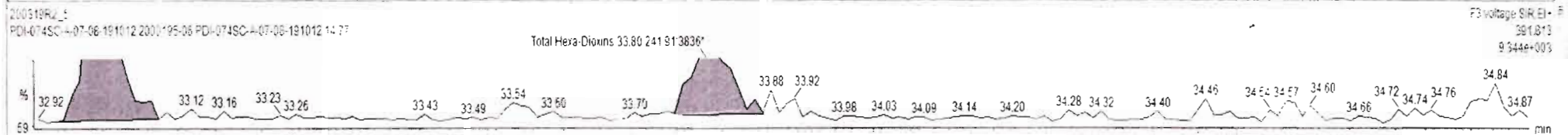
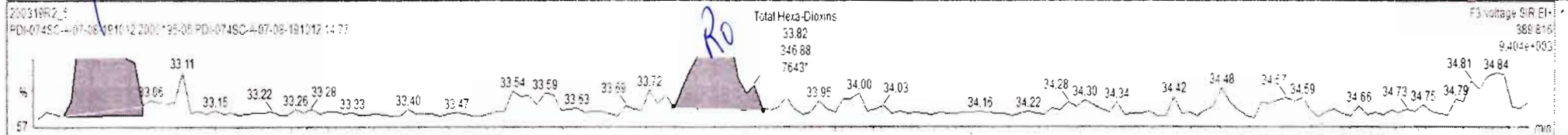
13C-1,2,3,4,7,8-HxCDD



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14.77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.011			0.379		0.0809	0.379
40 Total Penta-Dioxins				0.9212	10.011			0.000		0.0491	0.129

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.80	7.343e2	6.393e2	1.15	NO	0.73402	0.73402
2 Total Hexa-Dioxins	33.82	2.476e2	2.310e2	1.50	YES	0.27652	0.00000

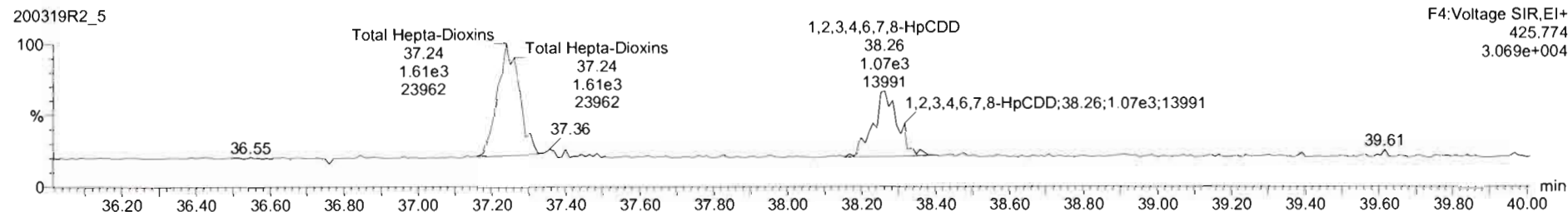
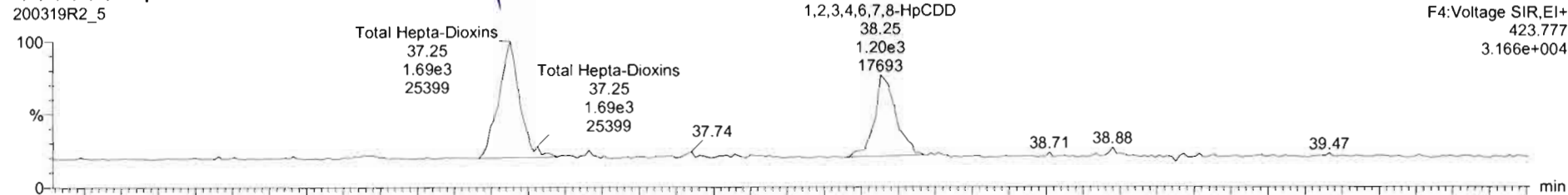


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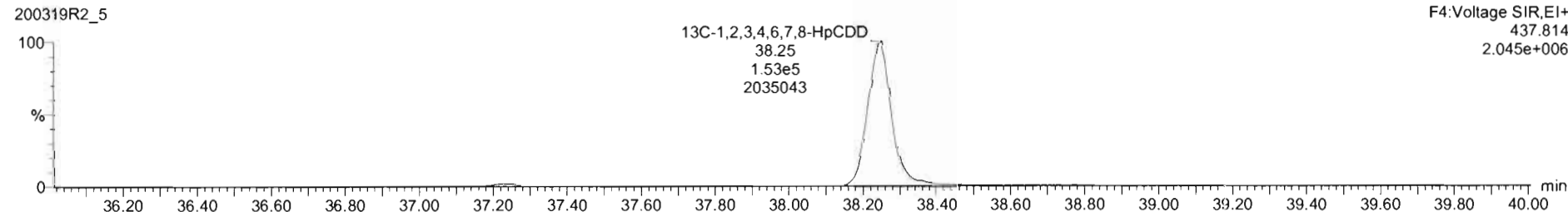
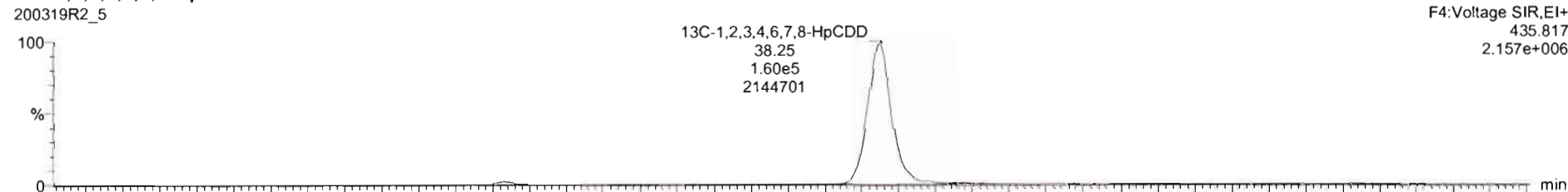
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Printed: Friday, March 20, 2020 09:12:35 Pacific Daylight Time

Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

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



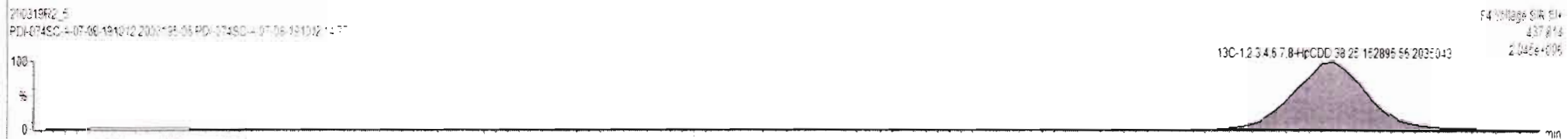
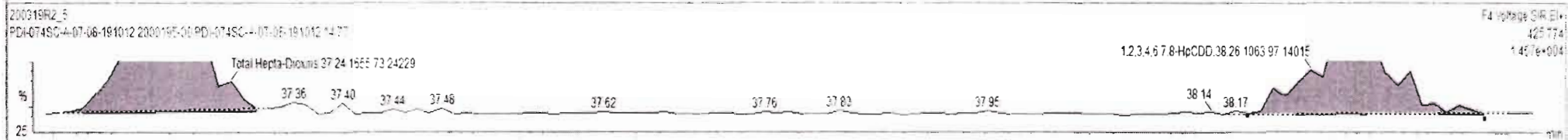
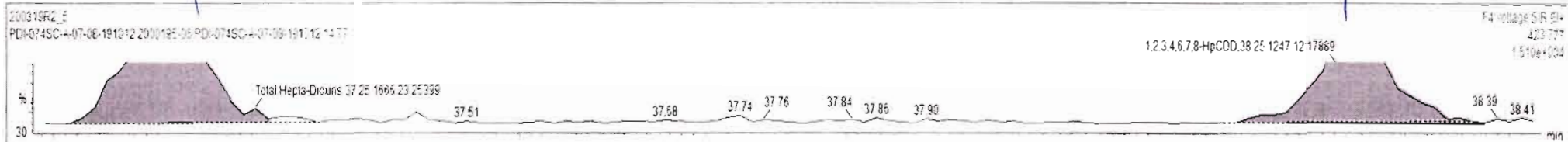
13C-1,2,3,4,6,7,8-HpCDD



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14 77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	nly	RRF	wt/vol	RT	FRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Dioxins				1.0061	10.011			3.57	0.172	3.57	
43 Total Tetra-Furans				0.9154	10.011			0.000	0.0228	0.153	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hepta-Dioxins	37.25	1.656e3	1.656e3	1.01	N0	2.1080	2.1080
2 1,2,3,4,6,7,8-HpCDD	38.25	1.247e3	1.064e3	1.17	N0	1.4651	1.4651

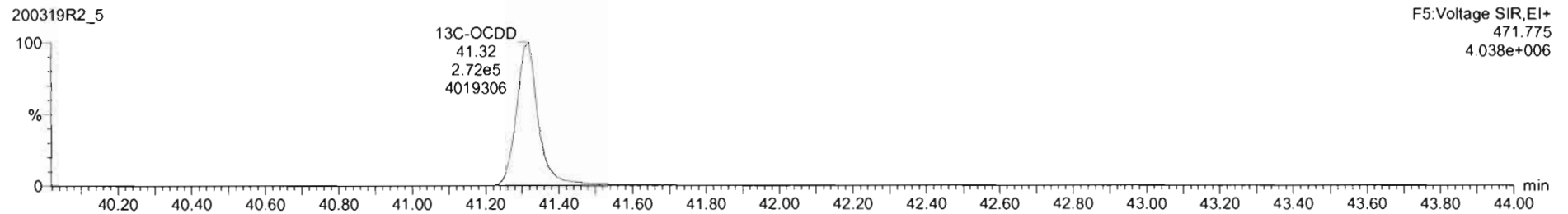
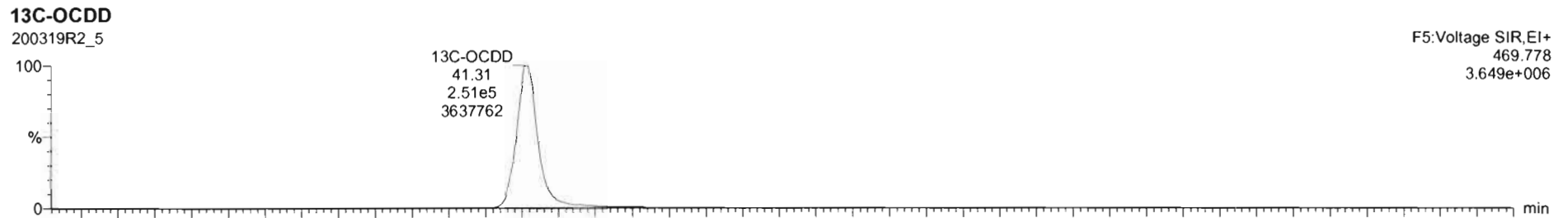
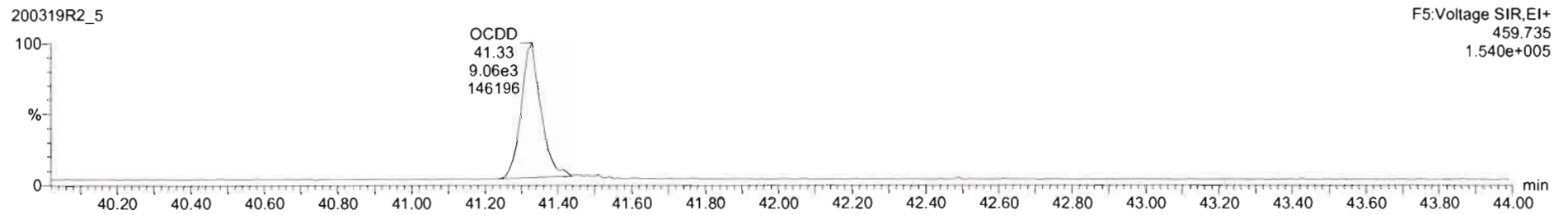
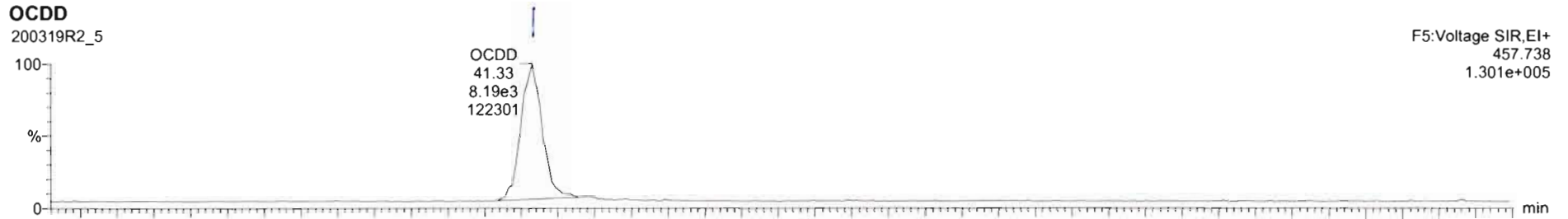


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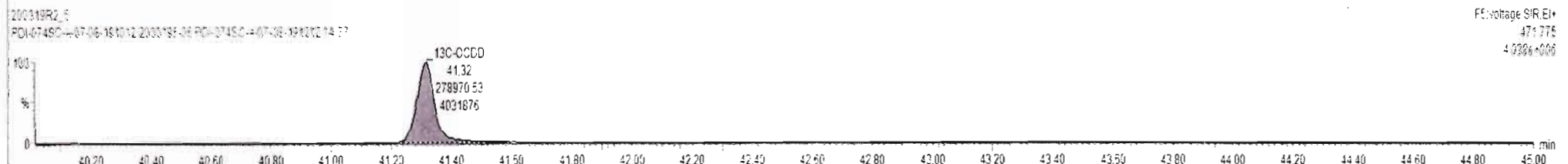
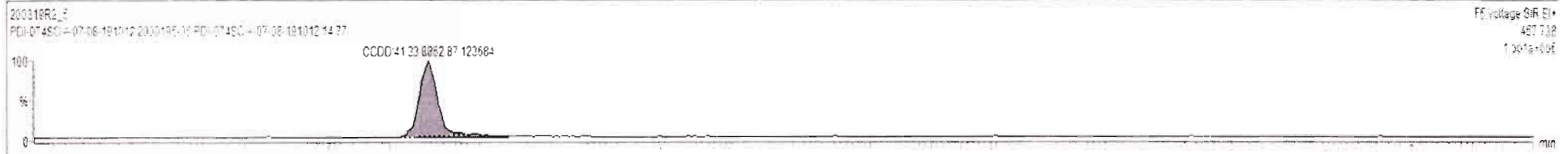
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Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012



Name	Resp	RA	n/y	RRF	wt/val	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	1.67e4	0.90	NO	1.0515	10.011	41.33	1.001	13.4		0.142	13.4
8 2,3,7,8-TCDF			NO	0.9154	10.011					0.0225	
9 1,2,3,7,8-PeCDF			NO	0.9594	10.011					0.0558	
10 2,3,4,7,8-PeCDF			NO	1.0025	10.011					0.0520	
11 1,2,3,4,7,8-HxCDF			NO	1.0351	10.011					0.0665	

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

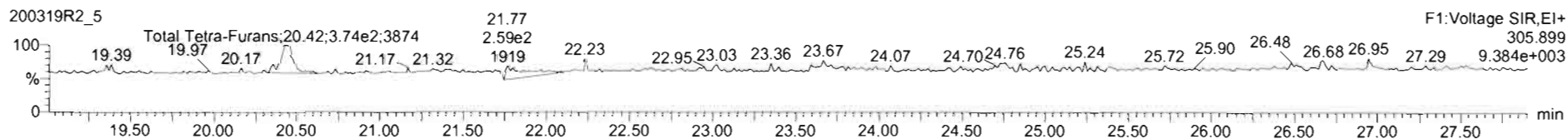
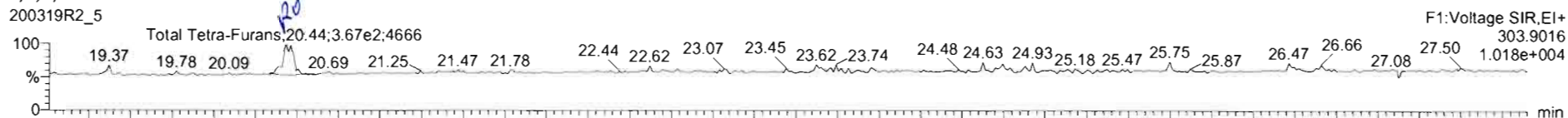


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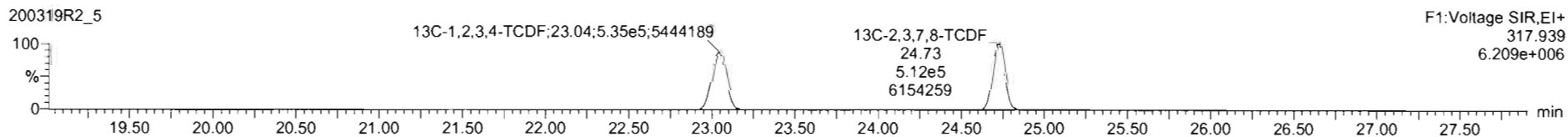
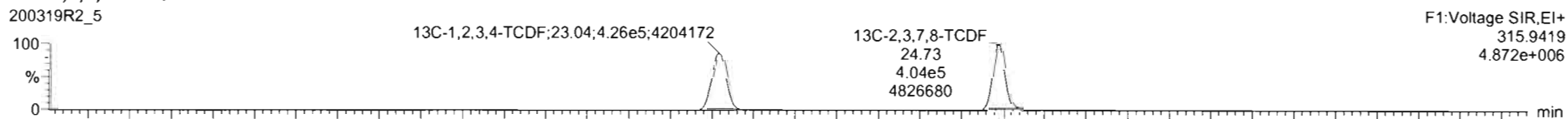
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Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

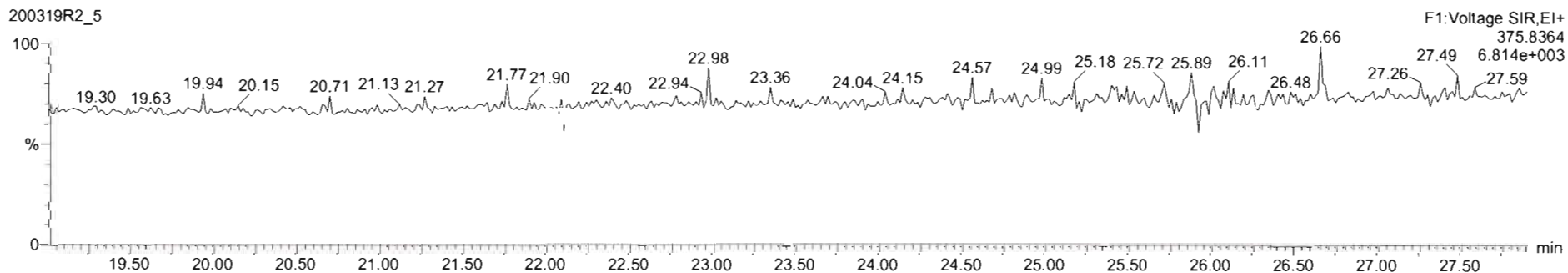
2,3,7,8-TCDF



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



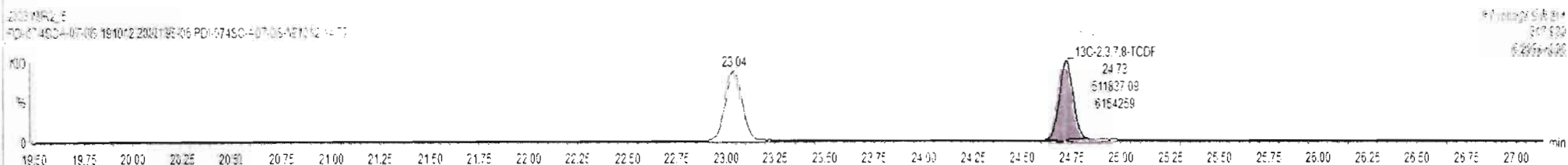
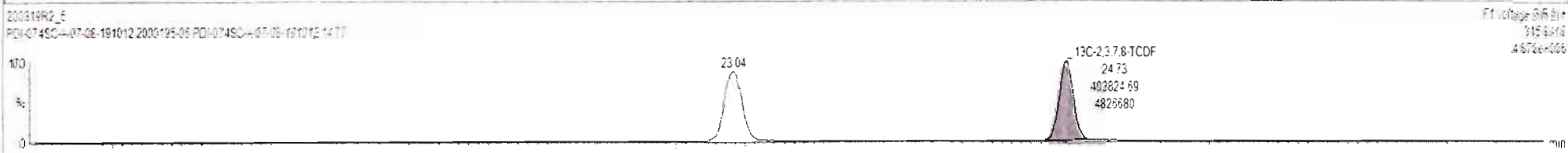
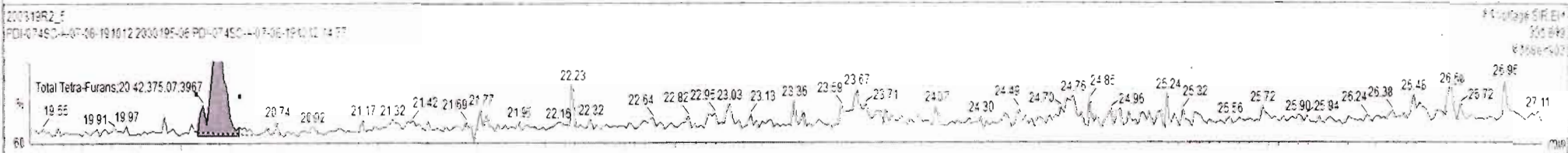
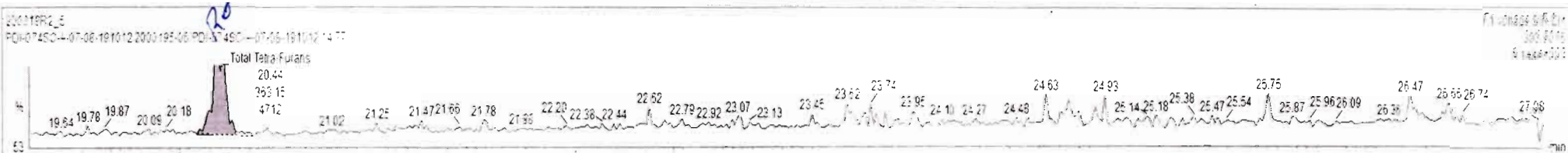
DPE1



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14.77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRF	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.011			0.090		0.0228	0.158
44 1st Func. Penta-Furans				0.9594	10.011					0.0162	
45 Total Penta-Furans				0.9594	10.011					0.0302	
46 Total Hexa-Furans				1.0920	10.011					0.0450	
47 Total Hepta-Furans				1.0460	10.011			0.000		0.0330	0.247

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.44	3.631e2	3.751e2	0.91	YES	0.15824	0.00000



Dataset: Untitled

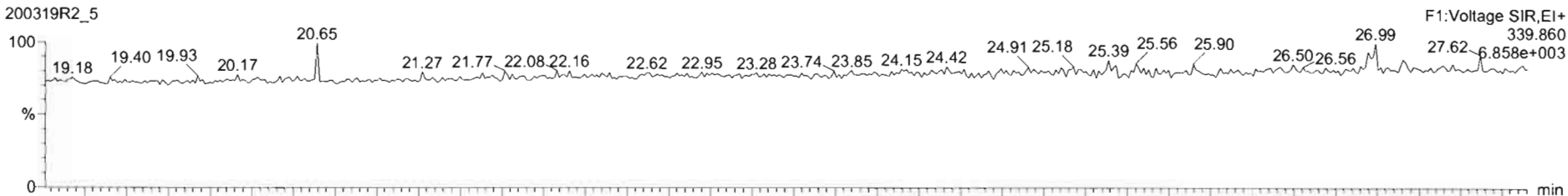
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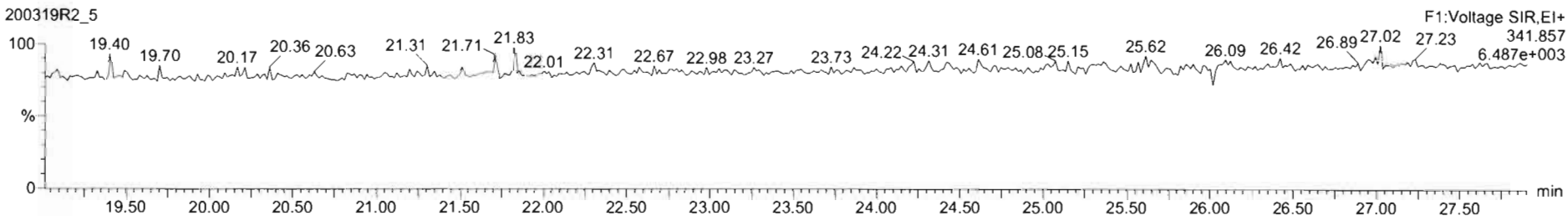
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1st Func. Penta-Furans

200319R2_5

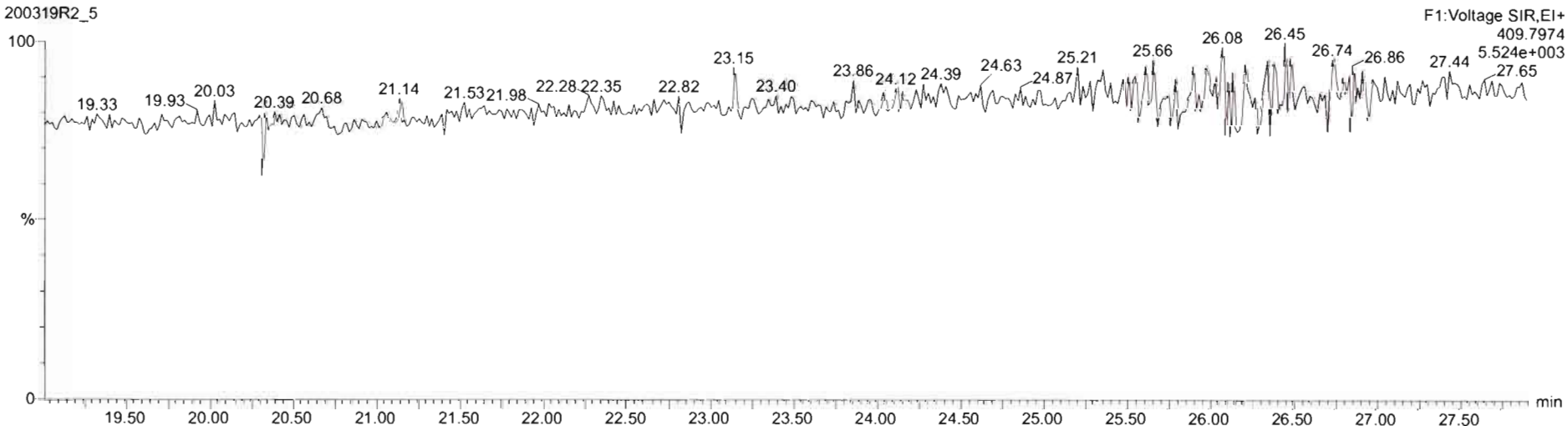


200319R2_5



DPE6

200319R2_5

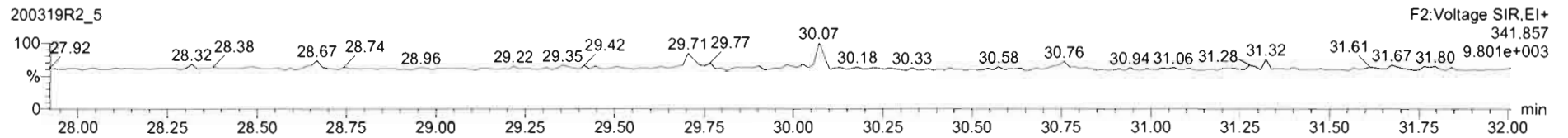
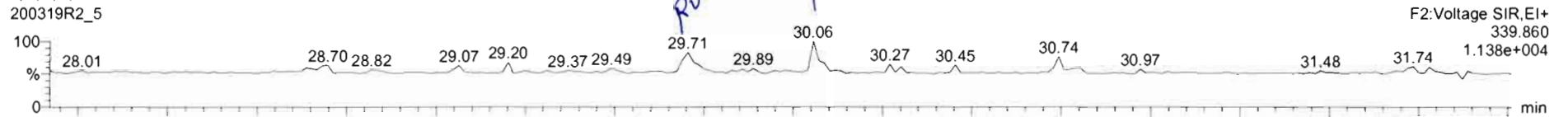


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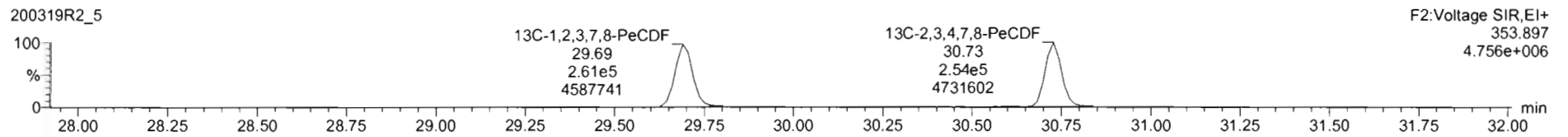
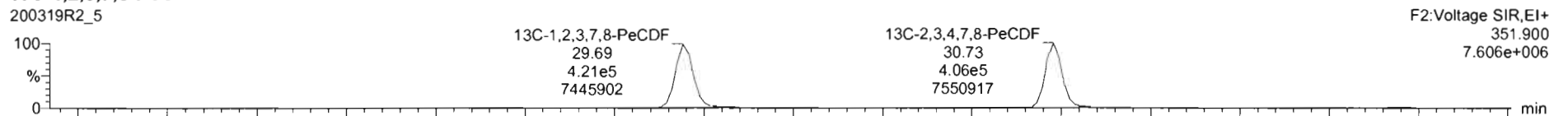
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Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

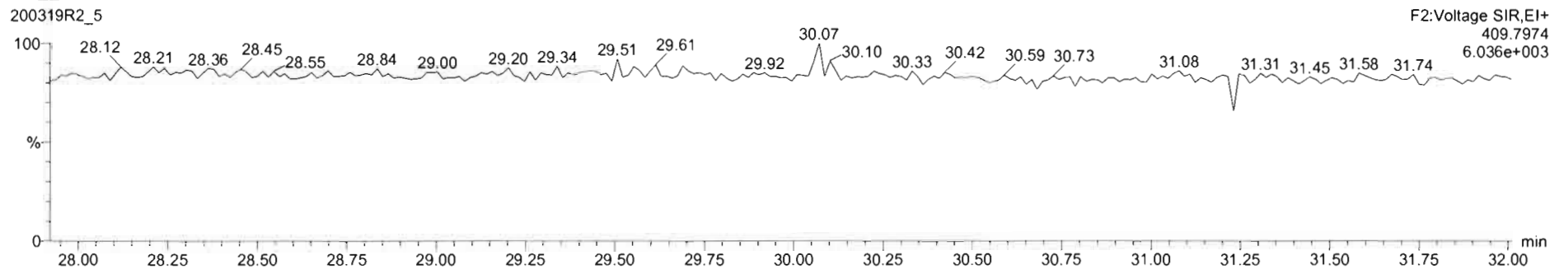
1,2,3,7,8-PeCDF



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



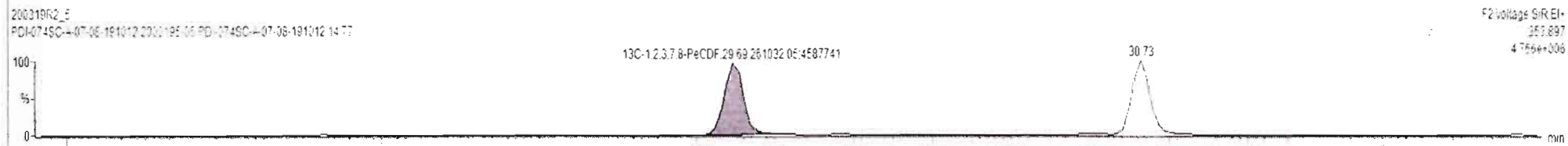
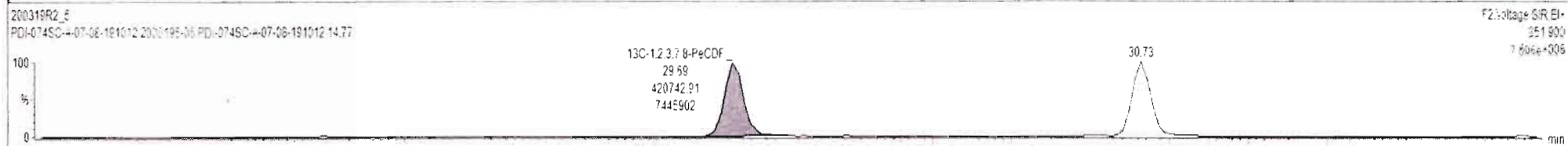
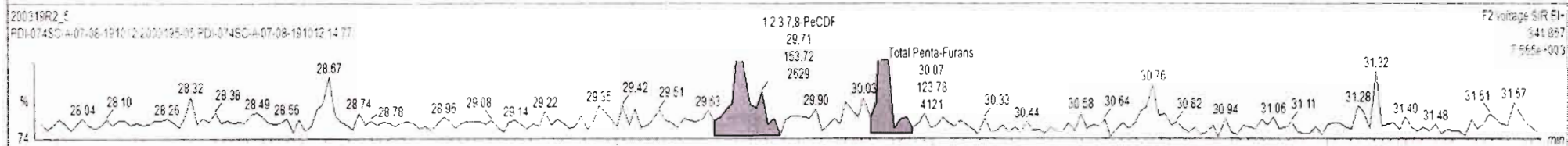
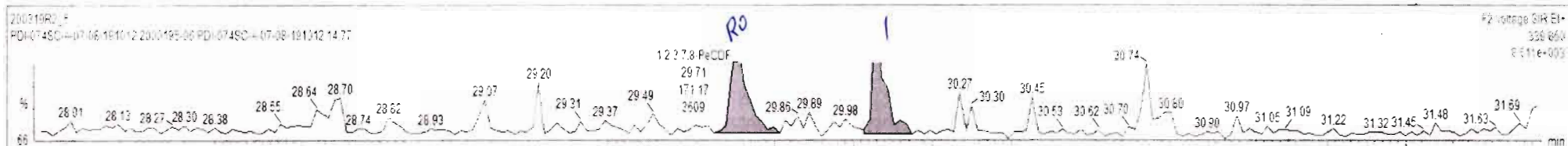
DPE2



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14.77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.011			0.000		0.0226	0.155
44 1st Func. Penta-Furans				0.9594	10.011					0.0122	
45 Total Penta-Furans				0.9594	10.011			0.0931		0.0303	0.179
46 Total Hexa-Furans				1.0520	10.011					0.1450	
47 Total Hepta-Furans				1.0483	10.011			0.000		0.0230	0.247

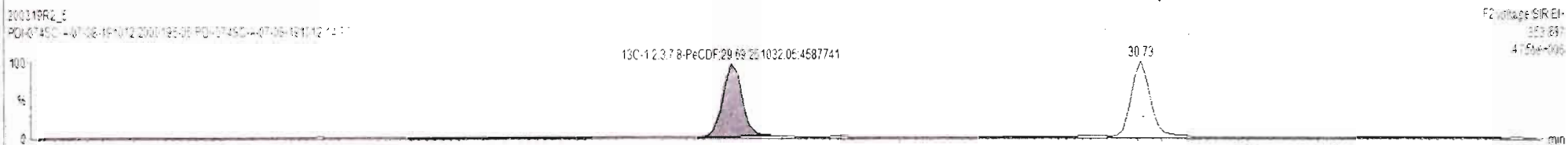
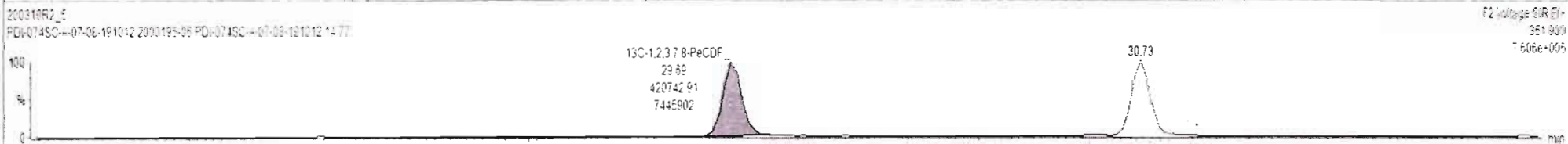
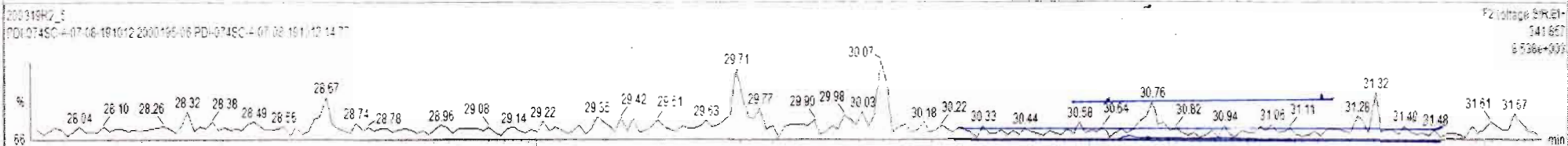
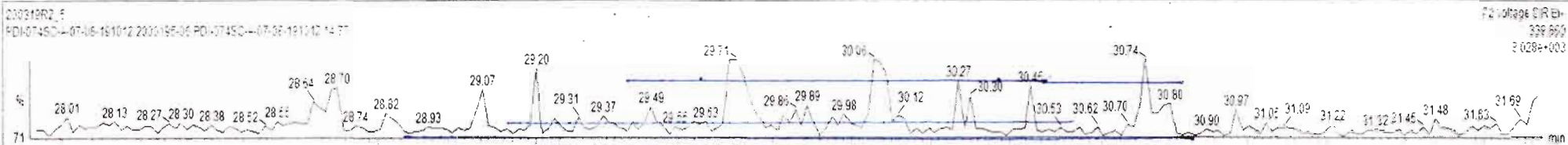
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-PeCDF	29.71	1.712e2	1.537e2	1.11	YES	0.066011	0.40000
2 Total Penta-Furans	30.06	1.752e2	1.238e2	1.42	NO	0.093066	0.093066



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14 77 - PDI-074SC-A-07-08-191012

Name	Reso	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.011			0.000		0.0228	0.153
44 1st Func. Penta-Furans				0.9594	10.011					0.0162	
45 Total Penta-Furans				0.9594	10.011					0.0303	
46 Total Hexa-Furans				1.0520	10.011					0.0450	
47 Total Hepta-Furans				1.0482	10.011			0.000		0.0030	0.247

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

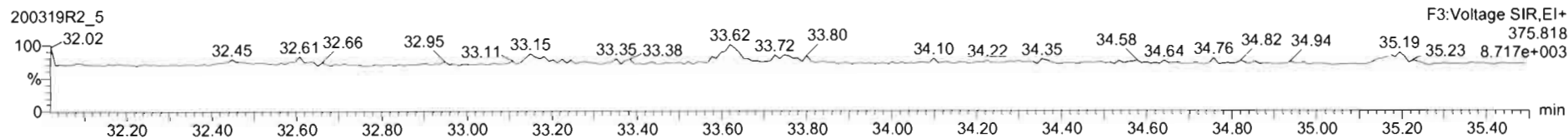
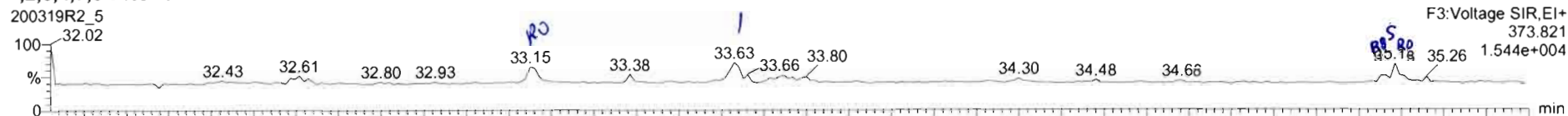


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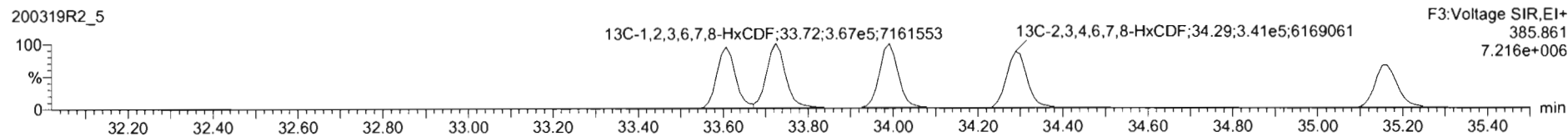
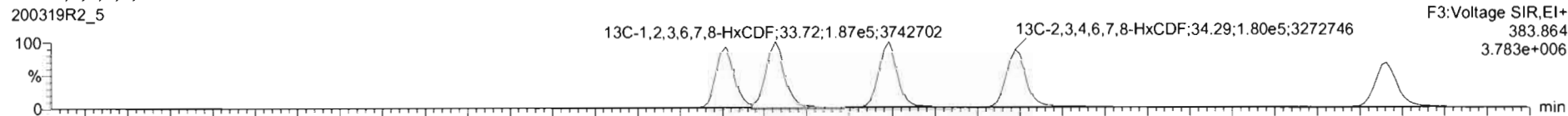
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Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

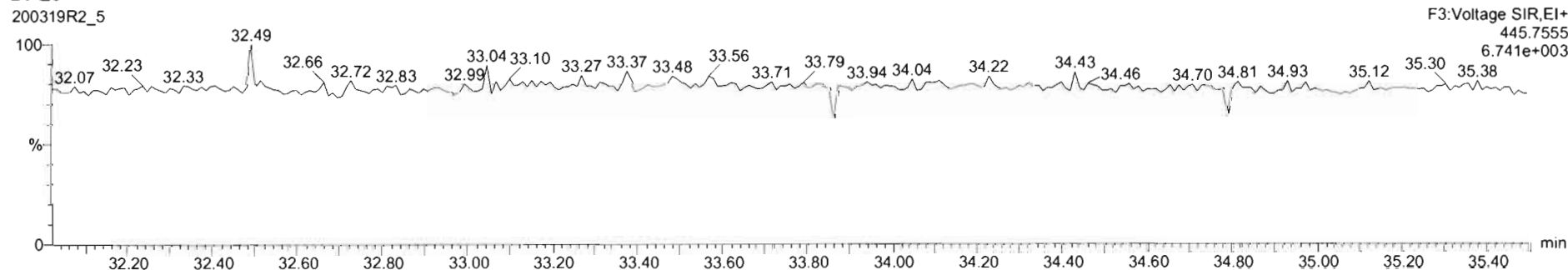
1,2,3,4,7,8-HxCDF



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



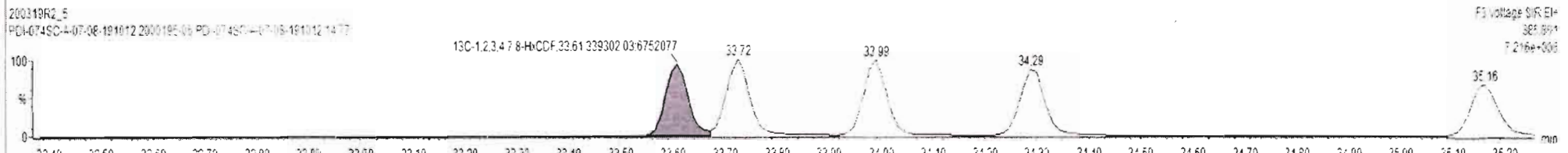
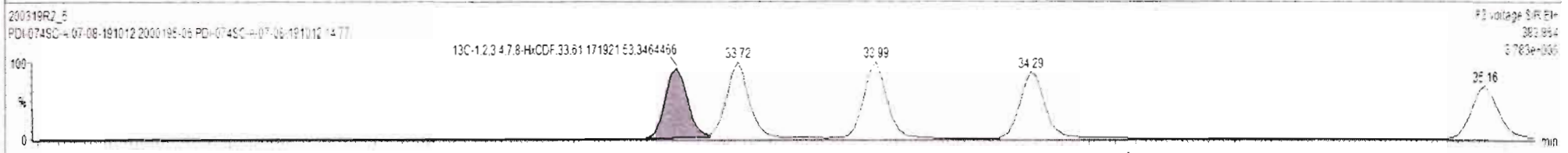
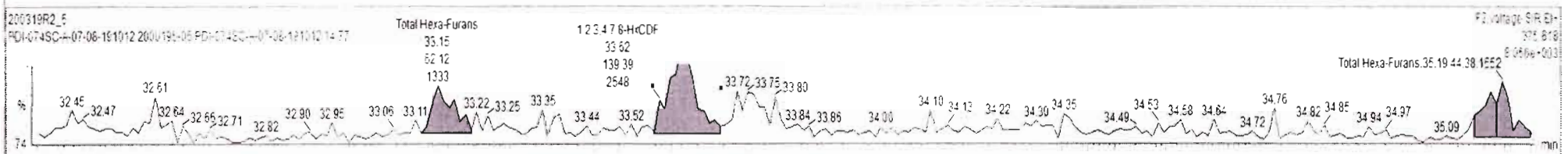
DPE3



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14 77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	n/y	RFI	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.011			0.000		0.0228	0.155
44 1st Func. Penta-Furans				0.9594	10.011					0.0152	
45 Total Penta-Furans				0.9594	10.011			0.0531		0.0303	0.175
46 Total Hexa-Furans				1.0920	10.011			0.124		0.0450	0.243
47 Total Hepta-Furans				1.0483	10.011			0.000		0.0330	0.247

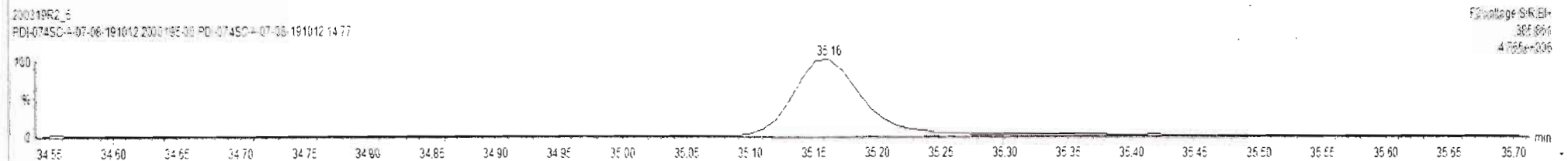
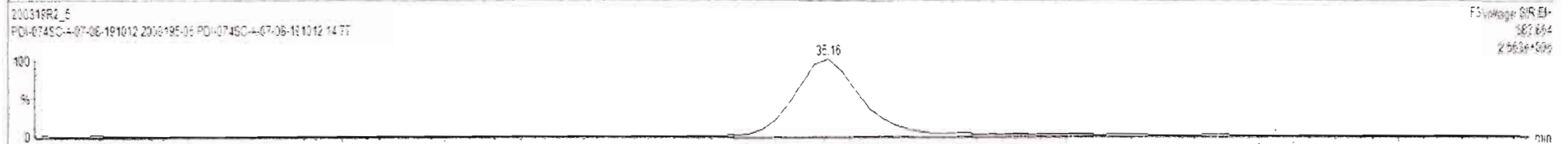
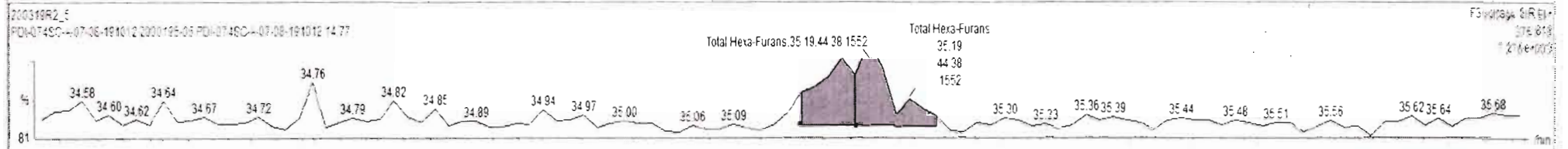
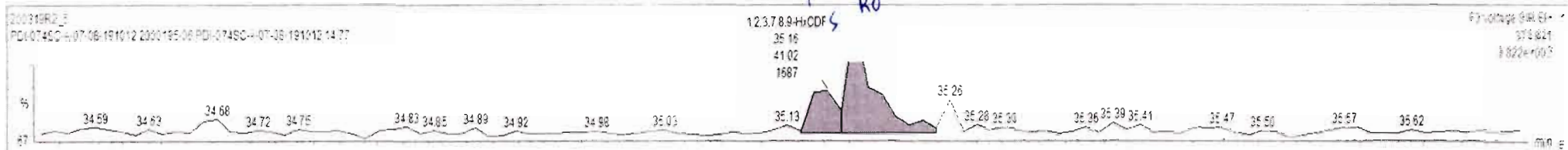
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	33.15	1.248e2	6.212e1	2.21	YES	0.050279	0.00000
2 1,2,3,4,7,8-HxCDF	33.63	1.509e2	1.394e2	1.37	NO	0.12434	0.12434
3 1,2,3,7,8-HxCDF	35.16	4.102e1	3.896e1	1.25	YES	0.032843	0.00000
4 Total Hexa-Furans	35.18	1.035e2	4.436e1	2.33	YES	0.035922	0.00000



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14.77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.011			0.000		0.0228	0.158
44 1st Func. Penta-Furans				0.9594	10.011					0.0162	
45 Total Penta-Furans				0.9594	10.011			0.0931		0.0353	0.178
46 Total Hexa-Furans				1.0920	10.011			0.124		0.0450	0.243
47 Total Hepta-Furans				1.0482	10.011			0.000		0.0330	0.247

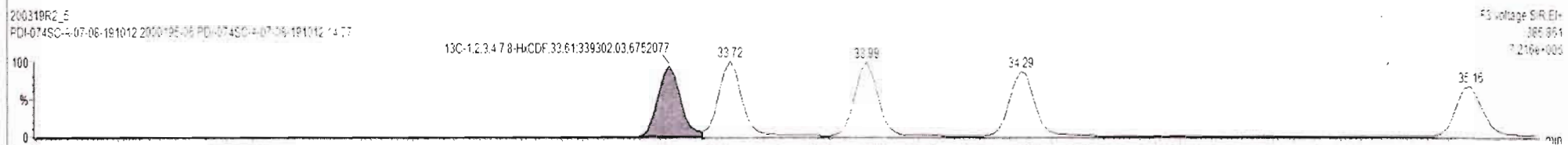
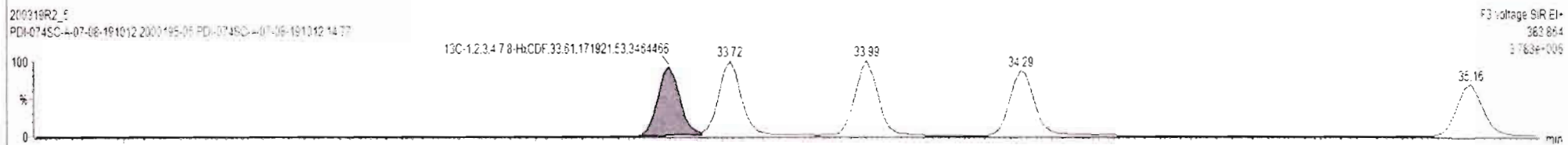
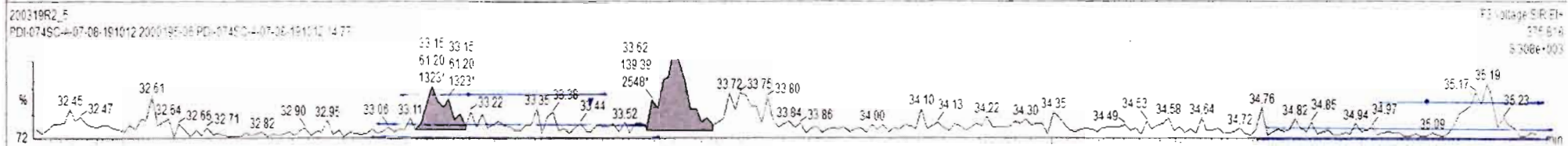
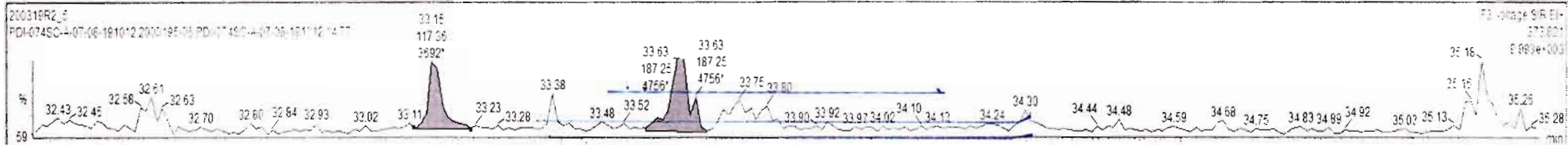
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	35.15	1.246e2	6.212e1	2.01	YES	0.050276	0.00000
2 1,2,3,4,7,8-hxCDF	35.63	1.909e2	1.394e2	1.97	NO	0.12434	0.12434
3 1,2,3,7,8,9-hxCDF	35.16	4.102e1	2.899e1	1.95	YES	0.032843	0.00000
4 Total Hexa-Furans	35.16	1.025e2	4.438e1	2.33	YES	0.035922	0.00000



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14 77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.011			0.000	0.0228	0.158	
44 1st Func. Penta-Furans				0.9594	10.011				0.0162		
45 Total Penta-Furans				0.9594	10.011			0.0331	0.0333	0.179	
46 Total Hexa-Furans				1.0920	10.011				0.0450		
47 Total Hepta-Furans				1.0480	10.011			0.000	0.0330	0.247	

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

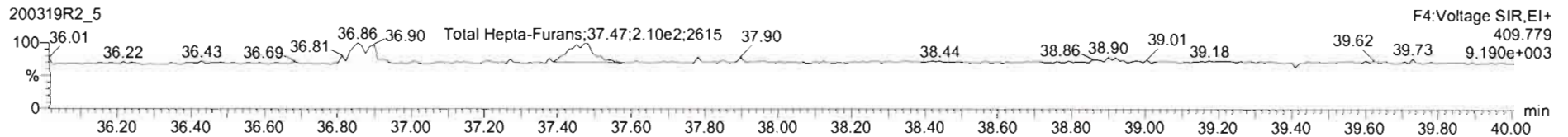
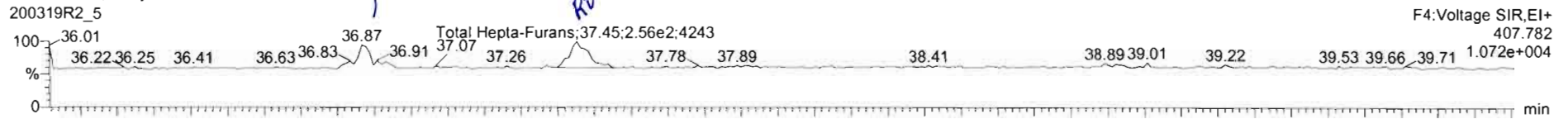


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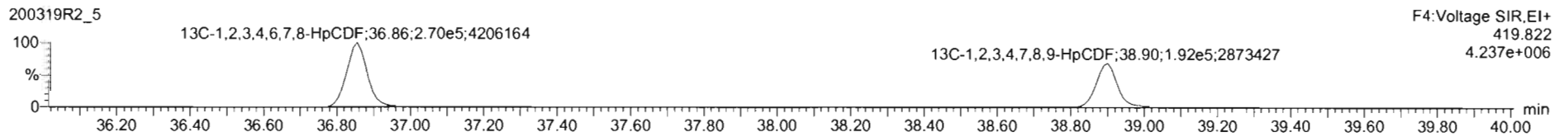
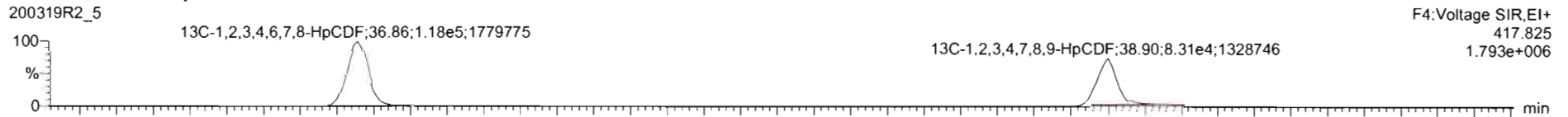
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Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012

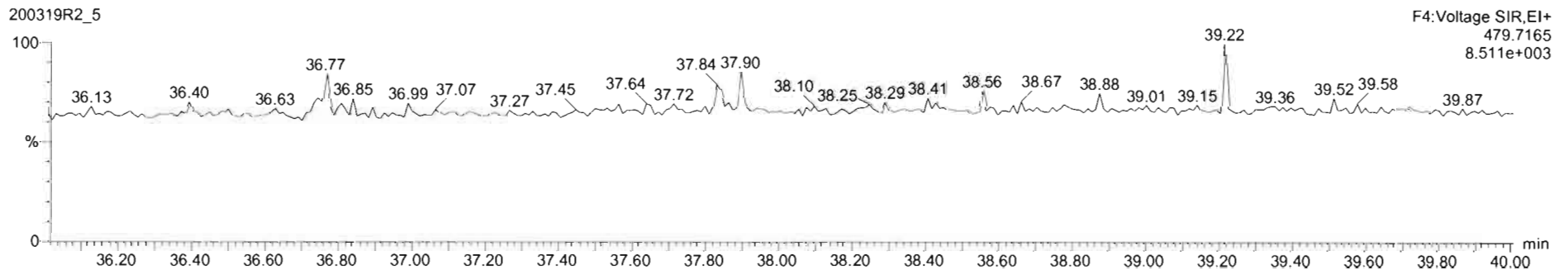
1,2,3,4,6,7,8-HpCDF



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

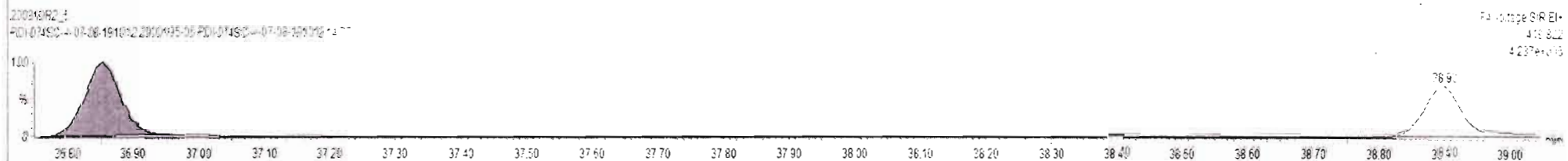
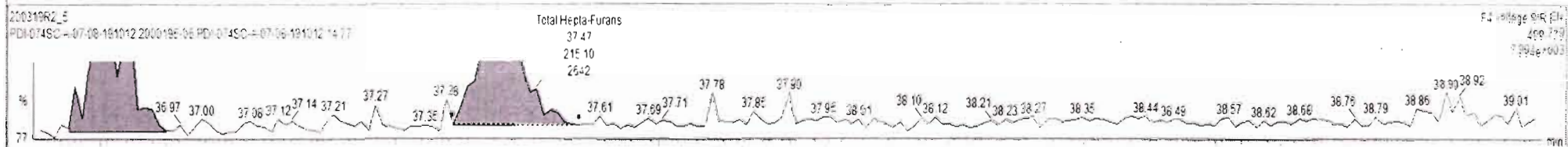
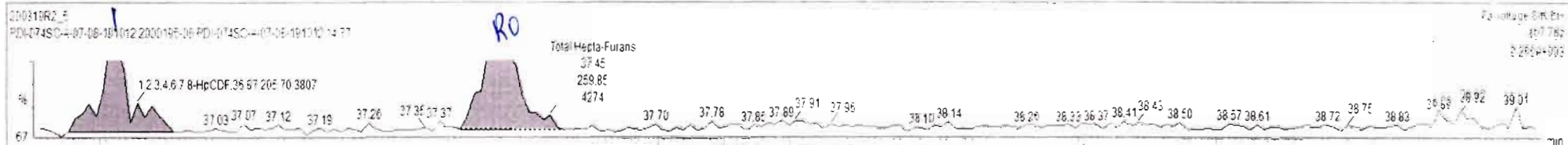


DPE4



Name	Resp	RA	n/y	RRF	wfvol	RT	RET	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.011			0.000		0.0228	0.158
44 1st Func. Penta-Furans				0.9594	10.011					0.0152	
45 Total Penta-Furans				0.9594	10.011			0.0931		0.0303	0.178
46 Total Hexa-Furans				1.0920	10.011			0.124		0.0450	0.242
47 Total Hepta-Furans				1.0483	10.011			0.200		0.0645	0.453

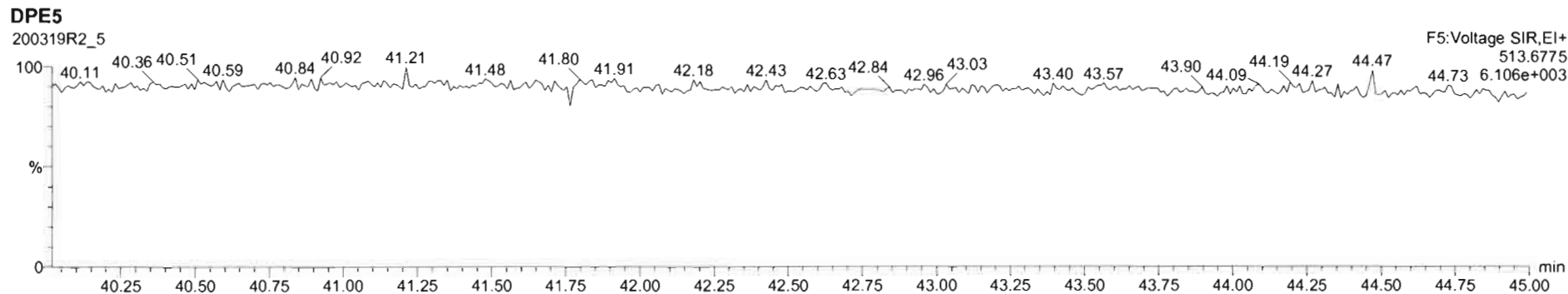
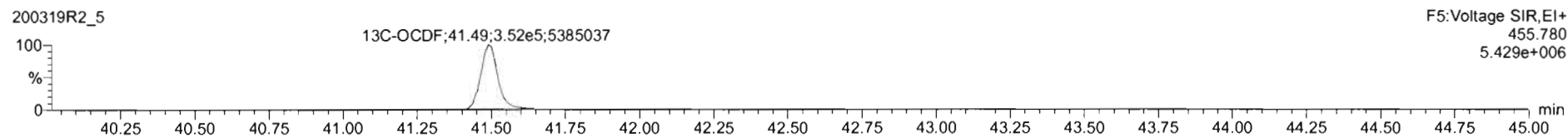
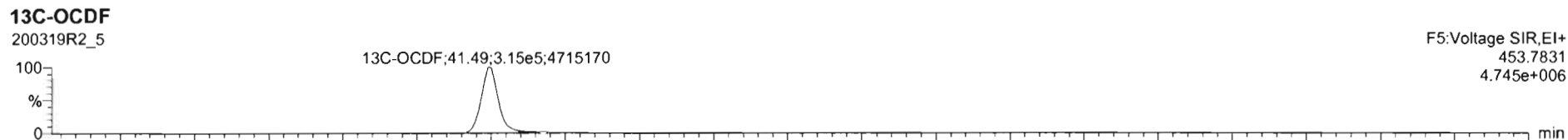
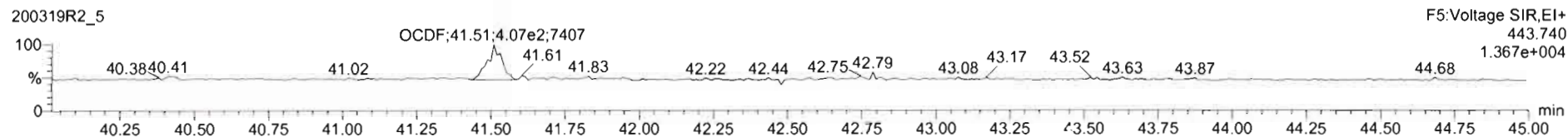
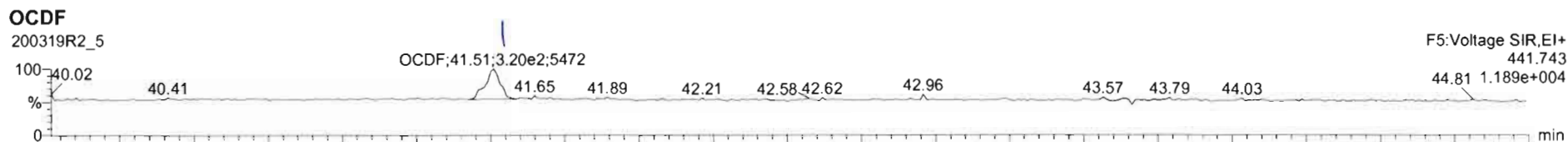
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.87	2.017e2	2.016e2	1.92	N/D	0.20048	0.20048
2 Total Hepta-Furans	37.45	2.599e2	2.151e2	1.21	YES	0.25263	0.00000



Dataset: Untitled

Last Altered: Friday, March 20, 2020 09:12:07 Pacific Daylight Time
Printed: Friday, March 20, 2020 09:12:35 Pacific Daylight Time

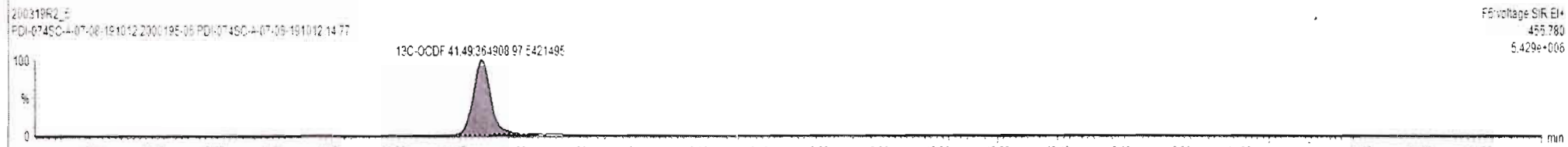
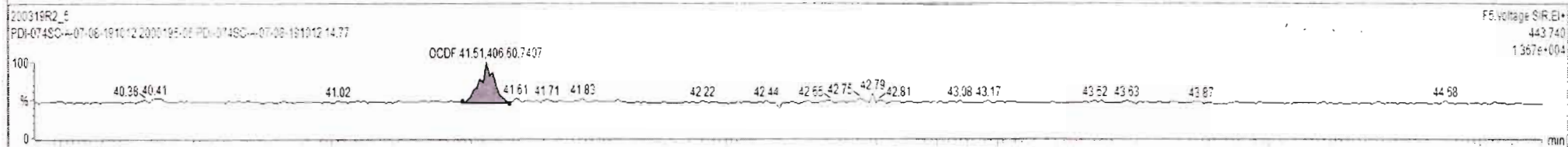
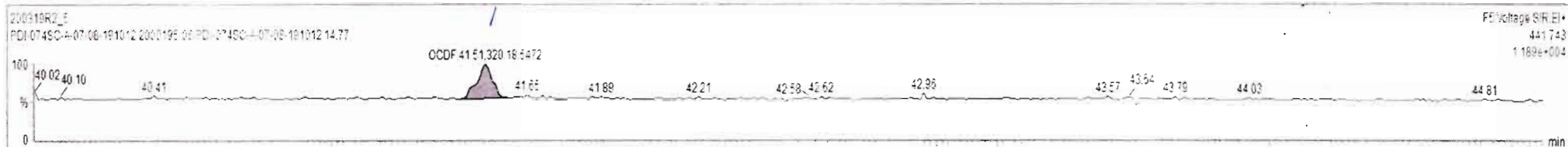
Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012



200319R2_5 - 2000195-06 PDI-074SC-A-07-08-191012 14.77 - PDI-074SC-A-07-08-191012

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	7.27e2	0.79	NO	0.9468	10.011	41.51	1.001	0.447	0.0974	0.447
18	13C-1,2,3,4,7,8-HxCDD	6.12e5	0.80	NO	1.1842	10.011	25.74	1.029	127	93.5	0.294
19	13C-1,2,3,7,8-PeCDD	4.25e5	0.84	NO	0.9644	10.011	21.05	1.242	178	85.1	0.436
20	13C-1,2,3,4,7,8-HxCDD	3.36e5	1.27	NO	0.7539	10.011	34.46	1.014	163	81.9	0.354
21	13C-1,2,3,6,7,8-HxCDD	4.17e5	1.28	NO	0.5254	10.011	34.56	1.017	164	82.1	0.289

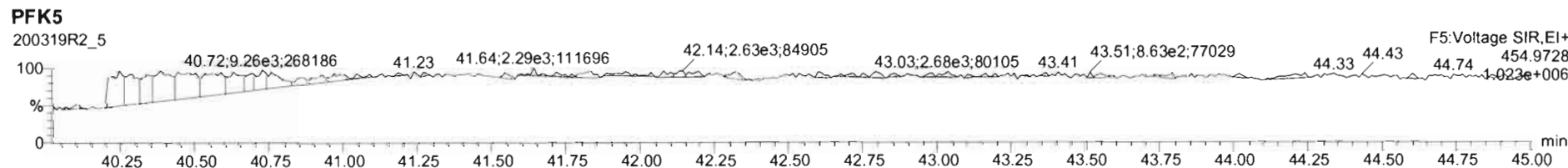
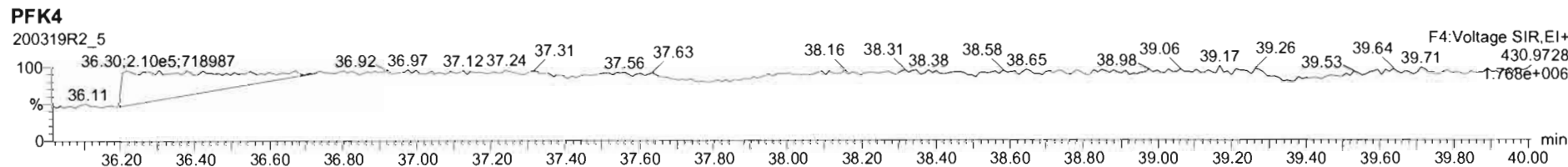
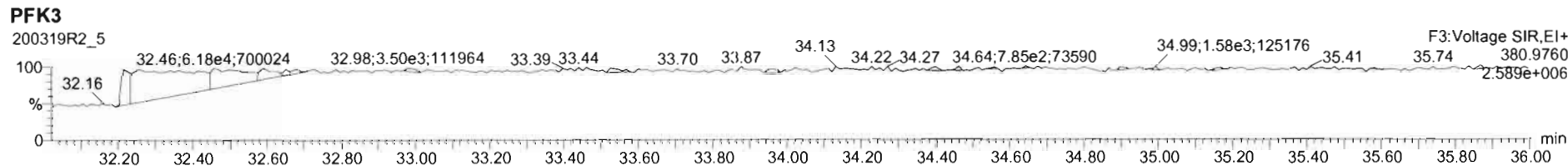
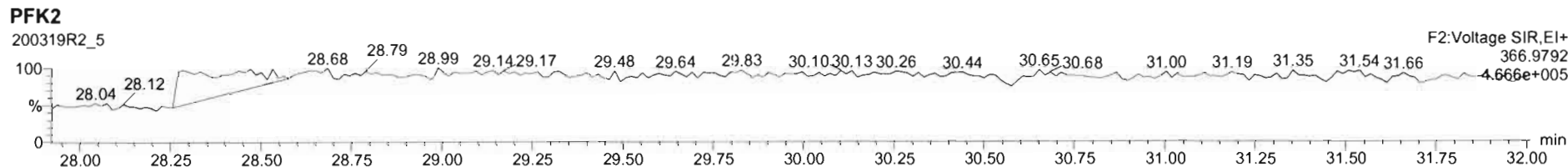
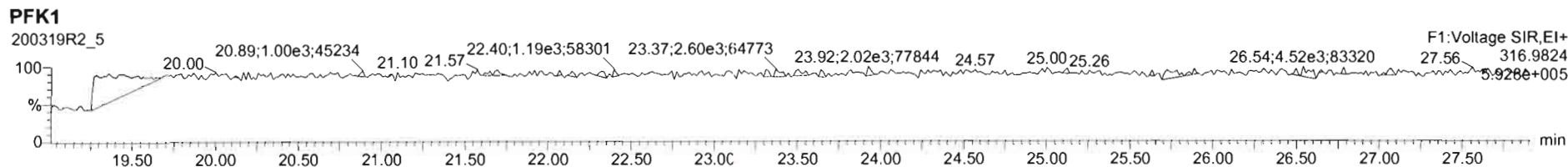
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Friday, March 20, 2020 09:12:07 Pacific Daylight Time
Printed: Friday, March 20, 2020 09:12:35 Pacific Daylight Time

Name: 200319R2_5, Date: 20-Mar-2020, Time: 08:20:37, ID: 2000195-06 PDI-074SC-A-07-08-191012 14.77, Description: PDI-074SC-A-07-08-191012



Dataset: U:\VG12.PRO\Results\200319R2\200319R2-6a.qld

Last Altered: Monday, March 30, 2020 11:55:48 AM Pacific Daylight Time

Printed: Monday, March 30, 2020 11:58:47 AM Pacific Daylight Time

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C104/01/2020

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

#	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	0.983	10.004	25.781		1.001				0.208	
2	2 1,2,3,7,8-PeCDD			NO	0.921	10.004	31.070		1.001				0.258	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.004	34.469		1.000				0.203	
4	4 1,2,3,6,7,8-HxCDD	7.66e2	1.29	NO	0.984	10.004	34.555	34.58	1.000	1.001	0.35973		0.222	0.360
5	5 1,2,3,7,8,9-HxCDD	6.53e2	1.26	NO	0.967	10.004	34.831	34.84	1.000	1.001	0.32296		0.244	0.323
6	6 1,2,3,4,6,7,8-HpCDD	9.32e3	1.03	NO	1.01	10.004	38.262	38.26	1.000	1.000	5.4555		0.392	5.46
7	7 OCDD	9.53e4	0.90	NO	1.05	10.004	41.318	41.33	1.000	1.000	62.159		0.220	62.2
8	8 2,3,7,8-TCDF	3.64e3	0.76	NO	0.915	10.004	24.772	24.78	1.001	1.001	0.81226	(0.665)	0.142	0.812
9	9 1,2,3,7,8-PeCDF	3.39e3	1.58	NO	0.959	10.004	29.727	29.72	1.001	1.001	0.95253		0.328	0.953
10	10 2,3,4,7,8-PeCDF	1.14e3	2.20	YES	1.00	10.004	30.743	30.74	1.000	1.000	0.32202		0.323	0.258
11	11 1,2,3,4,7,8-HxCDF	3.80e3	1.20	NO	1.04	10.004	33.607	33.63	1.000	1.001	1.3332		0.125	1.33
12	12 1,2,3,6,7,8-HxCDF	1.65e3	1.32	NO	1.01	10.004	33.745	33.76	1.000	1.001	0.54423		0.131	0.544
13	13 2,3,4,6,7,8-HxCDF	8.20e2	1.33	NO	1.09	10.004	34.333	34.31	1.001	1.000	0.27316		0.133	0.273
14	14 1,2,3,7,8,9-HxCDF	4.26e2	1.24	NO	1.03	10.004	35.162	35.18	1.000	1.001	0.16630		0.173	0.166
15	15 1,2,3,4,6,7,8-HpCDF	5.54e3	1.01	NO	1.05	10.004	36.893	36.87	1.001	1.000	2.5794		0.120	2.58
16	16 1,2,3,4,7,8,9-HpCDF	5.22e2	0.93	NO	1.21	10.004	38.911	38.93	1.000	1.001	0.29641		0.151	0.296
17	17 OCDF	5.44e3	0.86	NO	0.947	10.004	41.499	41.50	1.000	1.000	3.1563		0.140	3.16
18	18 13C-2,3,7,8-TCDD	6.73e5	0.79	NO	1.18	10.004	25.735	25.75	1.029	1.029	194.24	97.2	0.292	
19	19 13C-1,2,3,7,8-PeCDD	4.52e5	0.65	NO	0.864	10.004	30.919	31.05	1.236	1.241	178.95	89.5	0.295	
20	20 13C-1,2,3,4,7,8-HxCDD	3.71e5	1.27	NO	0.754	10.004	34.463	34.46	1.014	1.014	167.46	83.8	0.481	
21	21 13C-1,2,3,6,7,8-HxCDD	4.32e5	1.29	NO	0.925	10.004	34.572	34.56	1.017	1.017	158.94	79.5	0.392	
22	22 13C-1,2,3,7,8,9-HxCDD	4.18e5	1.27	NO	0.829	10.004	34.834	34.82	1.025	1.024	171.45	85.8	0.438	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.40e5	1.06	NO	0.598	10.004	38.294	38.25	1.127	1.125	193.23	96.7	0.559	
24	24 13C-OCDD	5.83e5	0.91	NO	0.571	10.004	41.445	41.32	1.219	1.216	347.40	86.9	0.515	
25	25 13C-2,3,7,8-TCDF	9.80e5	0.78	NO	1.09	10.004	24.757	24.75	0.990	0.989	177.70	88.9	0.383	
26	26 13C-1,2,3,7,8-PeCDF	7.41e5	1.61	NO	0.876	10.004	29.590	29.71	1.183	1.187	167.12	83.6	0.620	
27	27 13C-2,3,4,7,8-PeCDF	7.03e5	1.61	NO	0.844	10.004	30.601	30.74	1.223	1.229	164.75	82.4	0.644	
28	28 13C-1,2,3,4,7,8-HxCDF	5.50e5	0.51	NO	1.00	10.004	33.610	33.61	0.989	0.989	187.01	93.5	0.503	
29	29 13C-1,2,3,6,7,8-HxCDF	6.00e5	0.51	NO	1.12	10.004	33.719	33.74	0.992	0.992	182.73	91.4	0.450	
30	30 13C-2,3,4,6,7,8-HxCDF	5.49e5	0.52	NO	1.04	10.004	34.300	34.30	1.009	1.009	180.60	90.3	0.486	
31	31 13C-1,2,3,7,8,9-HxCDF	4.99e5	0.52	NO	0.873	10.004	35.174	35.16	1.035	1.034	194.54	97.3	0.576	

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-6a.qld

Last Altered: Monday, March 30, 2020 11:55:48 AM Pacific Daylight Time

Printed: Monday, March 30, 2020 11:58:47 AM Pacific Daylight Time

Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.10e5	0.45	NO	0.771	10.004	36.890	36.86	1.085	1.084	180.95	90.5	0.567	
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.91e5	0.45	NO	0.519	10.004	38.977	38.91	1.147	1.145	190.71	95.4	0.842	
34	34 13C-OCDF	7.28e5	0.91	NO	0.696	10.004	41.625	41.50	1.225	1.221	355.95	89.0	0.496	
35	35 37Cl-2,3,7,8-TCDD	2.61e5			1.17	10.004	25.745	25.78	1.029	1.030	76.036	95.1	0.0939	
36	36 13C-1,2,3,4-TCDD	5.85e5	0.79	NO	1.00	10.004	25.050	25.02	1.000	1.000	199.92	100	0.345	
37	37 13C-1,2,3,4-TCDF	1.01e6	0.80	NO	1.00	10.004	23.190	23.07	1.000	1.000	199.92	100	0.417	
38	38 13C-1,2,3,4,6,9-HxCDF	5.87e5	0.52	NO	1.00	10.004	33.880	33.99	1.000	1.000	199.92	100	0.503	
39	39 Total Tetra-Dioxins				0.983	10.004	24.620		0.000		0.49821		0.208	0.898
40	40 Total Penta-Dioxins				0.921	10.004	29.960		0.000		0.27840		0.258	0.517
41	41 Total Hexa-Dioxins				0.984	10.004	33.635		0.000		3.5188		0.232	3.79
42	42 Total Hepta-Dioxins				1.01	10.004	37.640		0.000		13.274		0.392	13.3
43	43 Total Tetra-Furans				0.915	10.004	23.610		0.000		3.5448		0.142	3.97
44	44 1st Func. Penta-Furans				0.959	10.004	27.090		0.000		0.68540		0.0505	0.685
45	45 Total Penta-Furans				0.959	10.004	29.275		0.000		2.9277		0.333	3.19
46	46 Total Hexa-Furans				1.09	10.004	33.555		0.000		4.3803		0.133	4.49
47	47 Total Hepta-Furans				1.05	10.004	37.835		0.000		5.7454		0.143	5.75

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-6a.qld

Last Altered: Monday, March 30, 2020 11:55:48 AM Pacific Daylight Time

Printed: Monday, March 30, 2020 11:58:47 AM Pacific Daylight Time

Method: Untitled 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.38	4.871e3	6.438e3	4.016e2	5.723e2	0.70	NO	9.739e2	0.29436	0.29436	0.208
2	Total Tetra-Dioxins	21.78	5.229e3	5.553e3	2.834e2	3.911e2	0.72	NO	6.745e2	0.20385	0.20385	0.208
3	Total Tetra-Dioxins	23.28	7.186e3	8.586e3	6.652e2	7.477e2	0.89	YES	0.000e0	0.00000	0.40002	0.208

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.77	5.659e3	5.016e3	2.917e2	3.049e2	0.96	YES	0.000e0	0.00000	0.23847	0.258
2	Total Penta-Dioxins	29.26	4.582e3	5.550e3	2.435e2	3.367e2	0.72	NO	5.802e2	0.27840	0.27840	0.258

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.01	3.611e4	3.800e4	1.845e3	1.634e3	1.13	NO	3.479e3	1.7362	1.7362	0.232
2	Total Hexa-Dioxins	33.58	8.220e3	4.783e3	4.131e2	2.467e2	1.67	YES	0.000e0	0.00000	0.27573	0.232
3	Total Hexa-Dioxins	33.82	1.920e4	1.496e4	1.252e3	9.520e2	1.32	NO	2.204e3	1.1000	1.1000	0.232
4	1,2,3,6,7,8-HxCDD	34.58	6.936e3	5.353e3	4.307e2	3.348e2	1.29	NO	7.655e2	0.35973	0.35973	0.222
5	1,2,3,7,8,9-HxCDD	34.84	1.077e4	7.640e3	3.646e2	2.883e2	1.26	NO	6.529e2	0.32296	0.32296	0.244

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.24	9.536e4	9.390e4	6.883e3	6.480e3	1.06	NO	1.336e4	7.8186	7.8186	0.392
2	1,2,3,4,6,7,8-HpCDD	38.26	6.400e4	6.409e4	4.723e3	4.601e3	1.03	NO	9.324e3	5.4555	5.4555	0.392

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-6a.qld

Last Altered: Monday, March 30, 2020 11:55:48 AM Pacific Daylight Time

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Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.39	4.018e3	4.791e3	2.656e2	3.045e2	0.87	NO	5.701e2	0.12710	0.12710	0.142
2	Total Tetra-Furans	19.90	3.045e3	3.408e3	1.643e2	2.268e2	0.72	NO	3.912e2	0.087207	0.087207	0.142
3	Total Tetra-Furans	20.45	1.968e4	2.486e4	1.501e3	1.990e3	0.75	NO	3.491e3	0.77826	0.77826	0.142
4	Total Tetra-Furans	21.35	6.818e3	1.047e4	7.414e2	9.029e2	0.82	NO	1.644e3	0.36657	0.36657	0.142
5	Total Tetra-Furans	21.83	6.293e3	7.509e3	4.920e2	5.459e2	0.90	YES	0.000e0	0.00000	0.21539	0.142
6	Total Tetra-Furans	22.17	2.432e3	3.597e3	2.469e2	3.426e2	0.72	NO	5.895e2	0.13141	0.13141	0.142
7	Total Tetra-Furans	22.61	1.793e3	3.292e3	1.590e2	2.328e2	0.68	NO	3.918e2	0.087341	0.087341	0.142
8	Total Tetra-Furans	22.73	2.987e3	3.848e3	2.319e2	2.262e2	1.02	YES	0.000e0	0.00000	0.089263	0.142
9	Total Tetra-Furans	23.12	3.274e3	5.490e3	4.451e2	5.765e2	0.77	NO	1.022e3	0.22774	0.22774	0.142
10	Total Tetra-Furans	23.68	1.495e4	2.081e4	1.537e3	1.881e3	0.82	NO	3.418e3	0.76207	0.76207	0.142
11	2,3,7,8-TCDF	24.78	1.889e4	2.199e4	1.574e3	2.070e3	0.76	NO	3.644e3	0.81226	0.81226	0.142
12	Total Tetra-Furans	25.20	4.178e3	6.570e3	3.300e2	4.097e2	0.81	NO	7.397e2	0.16490	0.16490	0.142
13	Total Tetra-Furans	26.99	4.023e3	5.812e3	2.910e2	3.005e2	0.97	YES	0.000e0	0.00000	0.11858	0.142

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	26.98	2.284e4	1.440e4	1.479e3	8.965e2	1.65	NO	2.376e3	0.68540	0.68540	0.0505

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.68	2.508e4	1.466e4	1.748e3	1.134e3	1.54	NO	2.883e3	0.83168	0.83168	0.333
2	Total Penta-Furans	29.51	8.624e3	4.080e3	5.267e2	3.015e2	1.75	NO	8.282e2	0.23894	0.23894	0.333
3	1,2,3,7,8-PeCDF	29.72	3.278e4	2.106e4	2.074e3	1.314e3	1.58	NO	3.388e3	0.95253	0.95253	0.328
4	Total Penta-Furans	30.00	1.329e4	1.159e4	1.092e3	7.904e2	1.38	NO	1.882e3	0.54308	0.54308	0.333
5	2,3,4,7,8-PeCDF	30.74	2.487e4	1.467e4	7.831e2	3.566e2	2.20	YES	1.140e3	0.00000	0.25756	0.323
6	Total Penta-Furans	30.76	2.092e4	1.467e4	7.878e2	4.652e2	1.69	NO	1.253e3	0.36147	0.36147	0.333

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Printed: Monday, March 30, 2020 11:58:47 AM Pacific Daylight Time

Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.42	7.566e3	6.169e3	4.738e2	3.486e2	1.36	NO	8.224e2	0.27398	0.27398	0.133
2	Total Hexa-Furans	32.62	2.462e4	2.057e4	1.216e3	1.134e3	1.07	NO	2.351e3	0.78318	0.78318	0.133
3	Total Hexa-Furans	33.16	2.738e4	2.303e4	1.428e3	1.205e3	1.18	NO	2.633e3	0.87717	0.87717	0.133
4	Total Hexa-Furans	33.52	4.265e3	3.727e3	1.812e2	1.765e2	1.03	YES	0.000e0	0.00000	0.10908	0.133
5	1,2,3,4,7,8-HxCDF	33.63	4.416e4	3.308e4	2.074e3	1.731e3	1.20	NO	3.805e3	1.3332	1.3332	0.125
6	1,2,3,6,7,8-HxCDF	33.76	1.793e4	1.355e4	9.423e2	7.119e2	1.32	NO	1.654e3	0.54423	0.54423	0.131
7	2,3,4,6,7,8-HxCDF	34.31	8.507e3	6.870e3	4.684e2	3.513e2	1.33	NO	8.197e2	0.27316	0.27316	0.133
8	1,2,3,7,8,9-HxCDF	35.18	6.919e3	5.026e3	2.356e2	1.906e2	1.24	NO	4.262e2	0.16630	0.16630	0.173
9	Total Hexa-Furans	35.23	5.776e3	4.472e3	2.202e2	1.673e2	1.32	NO	3.876e2	0.12911	0.12911	0.133

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	36.87	4.139e4	4.103e4	2.781e3	2.761e3	1.01	NO	5.542e3	2.5794	2.5794	0.120
2	Total Hepta-Furans	37.44	3.920e4	3.914e4	2.723e3	2.549e3	1.07	NO	5.272e3	2.8696	2.8696	0.143
3	1,2,3,4,7,8,9-HpCDF	38.93	4.959e3	4.353e3	2.508e2	2.711e2	0.93	NO	5.219e2	0.29641	0.29641	0.151

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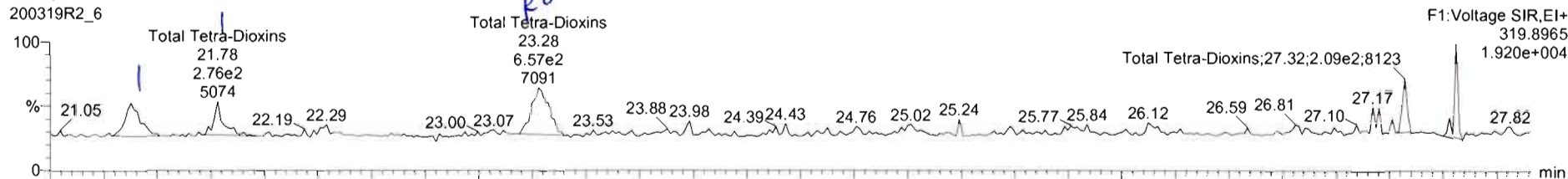
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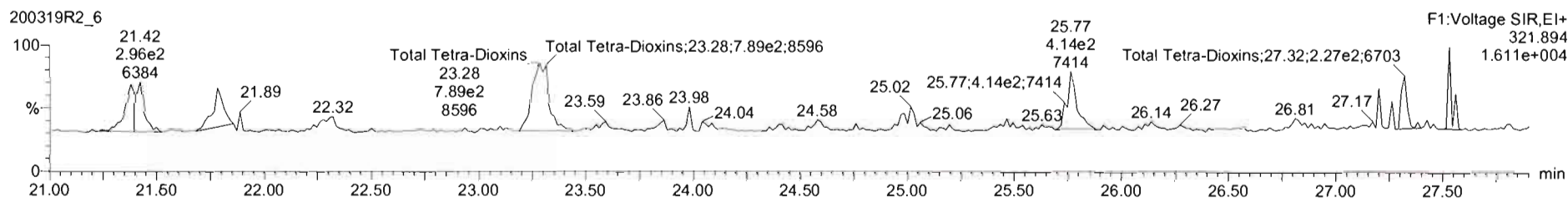
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2,3,7,8-TCDD

200319R2_6

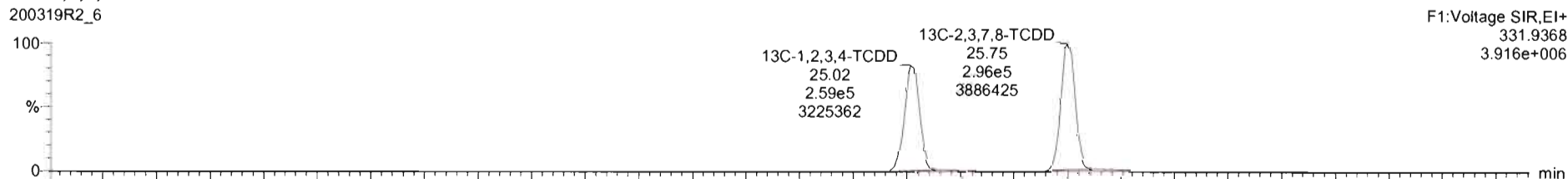


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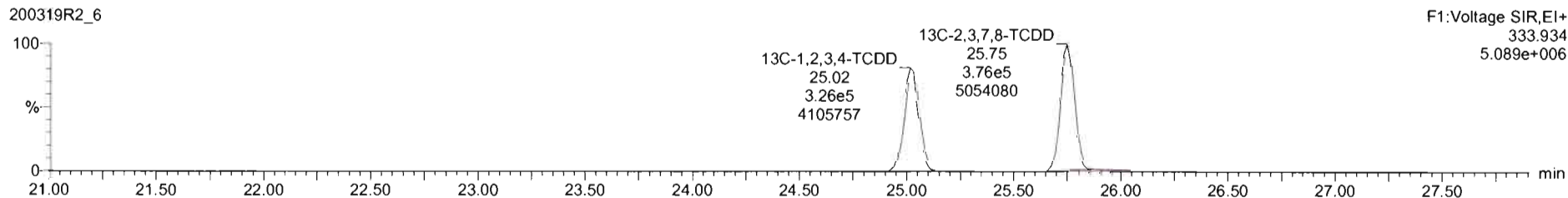


13C-2,3,7,8-TCDD

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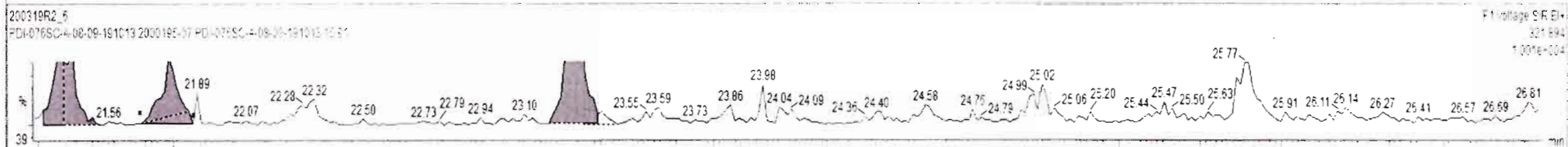
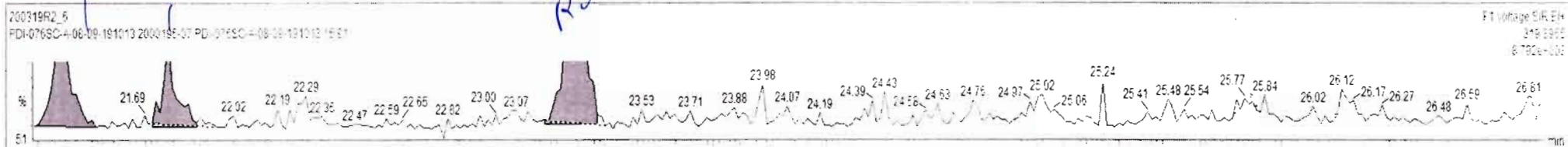
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200319R2_6 - 2000195-07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.8635	10.004			0.498		0.208	0.898
40 Total Penta-Dioxins				0.5212	10.004			0.278		0.256	0.517
41 Total Hexa-Dioxins				0.9844	10.004			3.02		0.232	3.26
42 Total Hepta-Dioxins				1.0061	10.004			12.1		0.196	12.1
43 Total Tetra-Furans				0.9154	10.004			2.36		0.142	3.12

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.38	4.016e2	5.723e2	0.70	NO	0.29438	0.29438
2 Total Tetra-Dioxins	21.78	2.824e2	3.511e2	0.72	NO	0.20385	0.20385
3 Total Tetra-Dioxins	22.28	8.852e2	7.477e2	0.85	YES	0.40802	0.00000



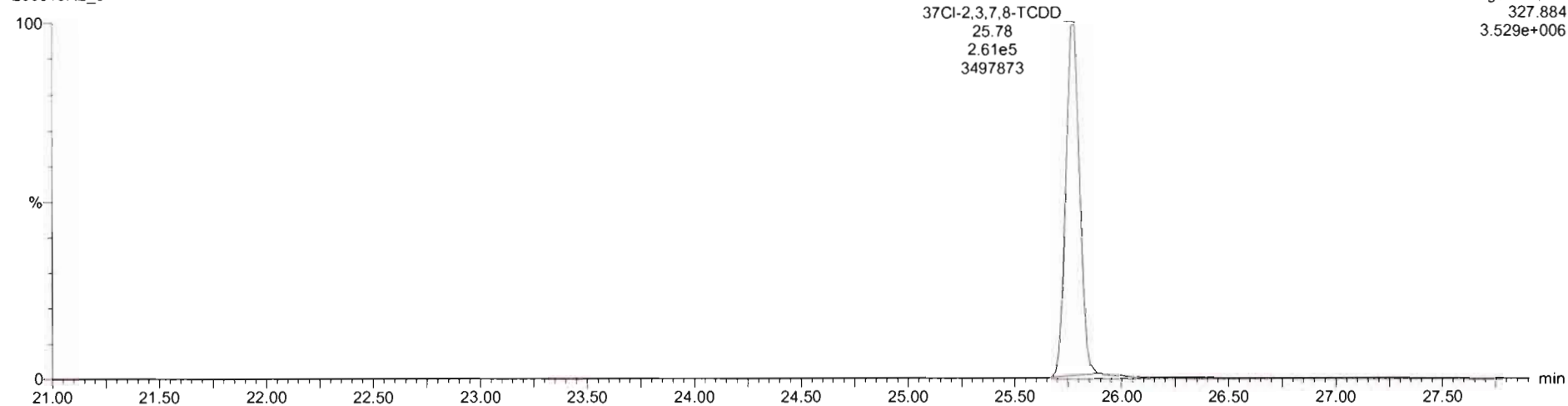
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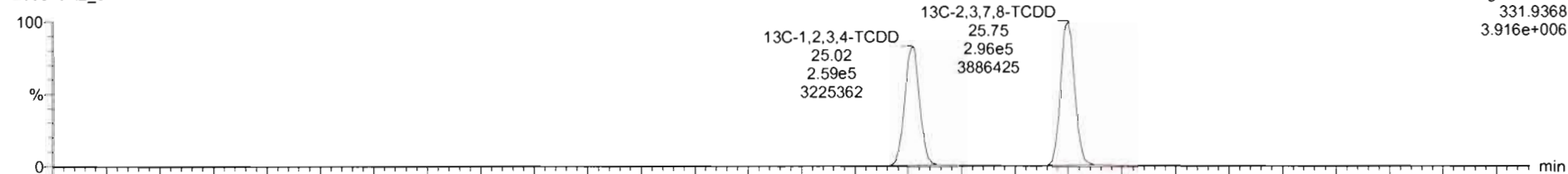
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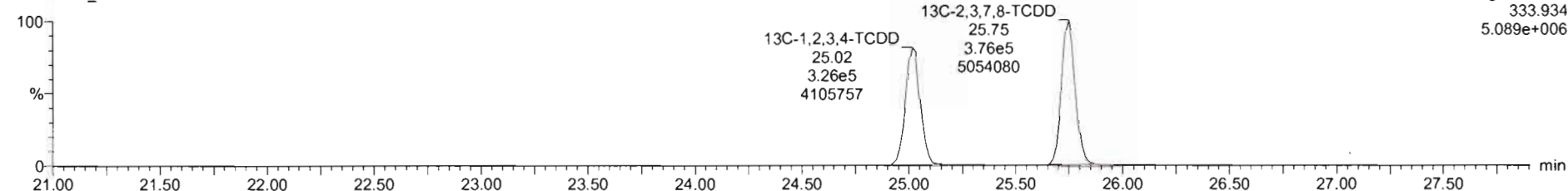


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200319R2_6



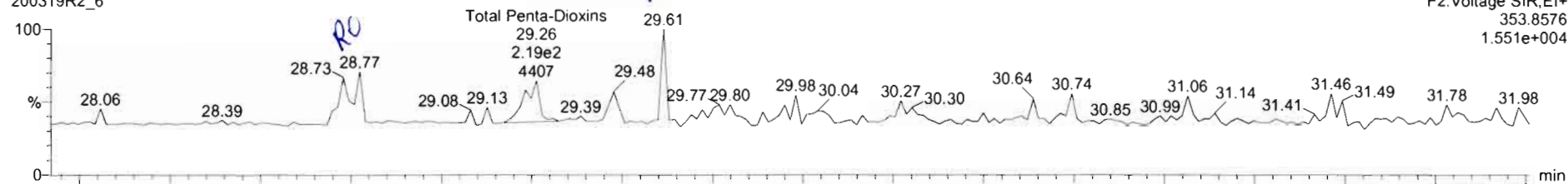
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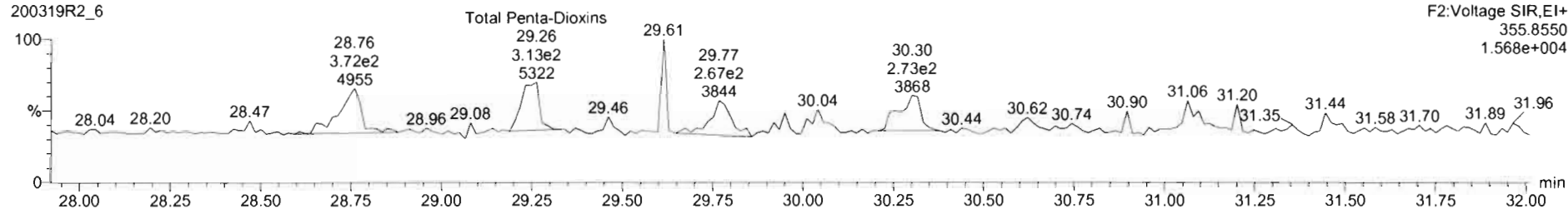
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1,2,3,7,8-PeCDD

200319R2_6

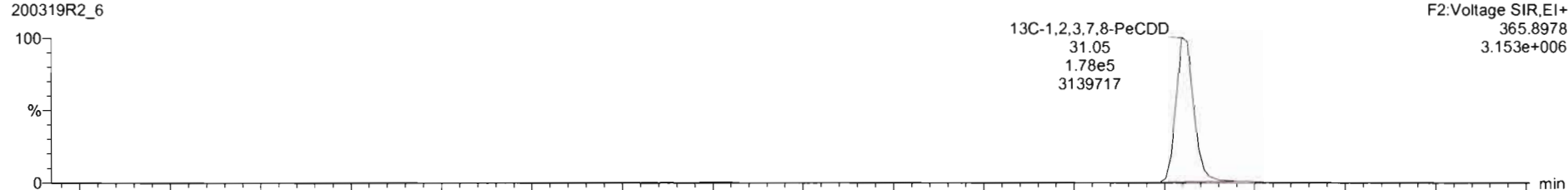


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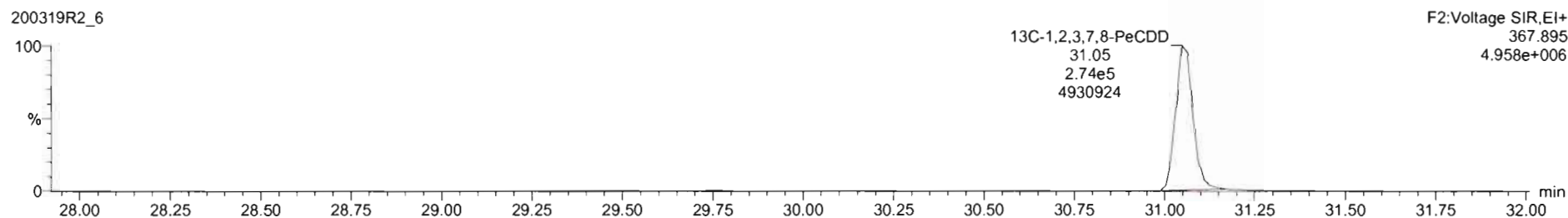


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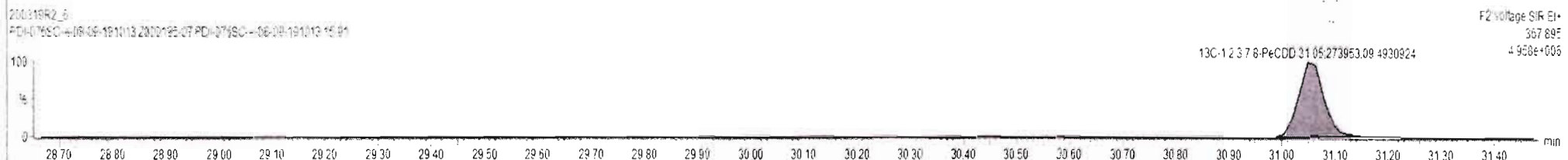
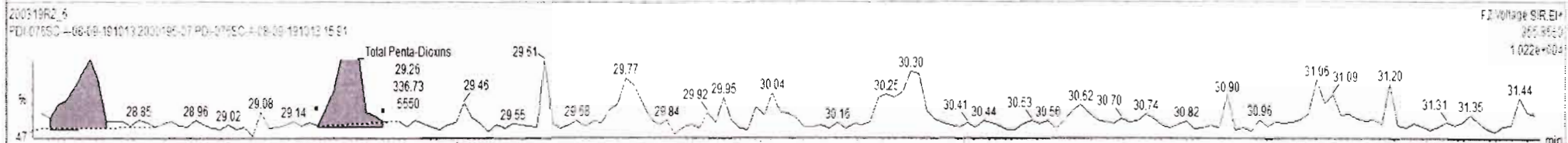
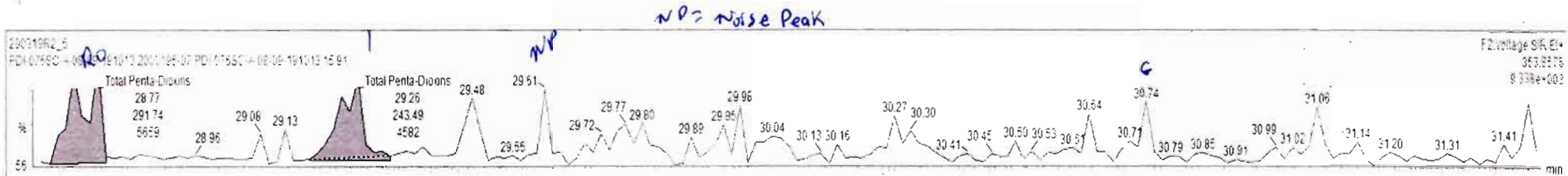


200319R2_6



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.004			0.498		0.238	0.893
40 Total Penta-Dioxins				0.9212	10.004			0.278		0.258	0.517
41 Total Hexa-Dioxins				0.9844	10.004			0.02		0.232	0.23
42 Total Hepta-Dioxins				1.0061	10.004			12.1		0.396	12.1
43 Total Tetra-Furans				0.5154	10.004			2.38		0.142	3.12

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.77	2.917e2	3.045e2	0.96	Y63	0.23847	0.00000
2 Total Penta-Dioxins	29.26	2.405e2	3.367e2	0.72	NG	0.27840	0.27840



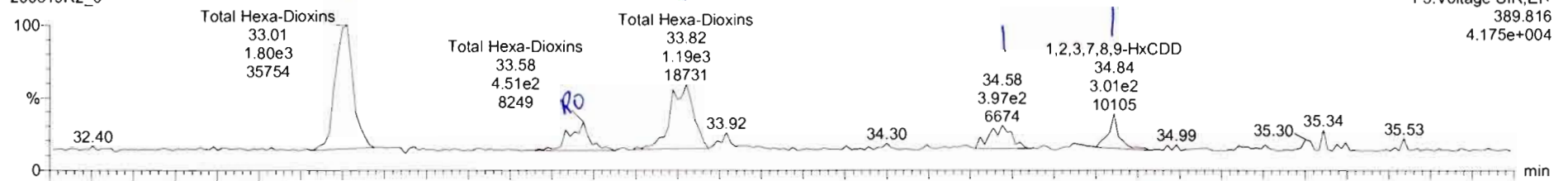
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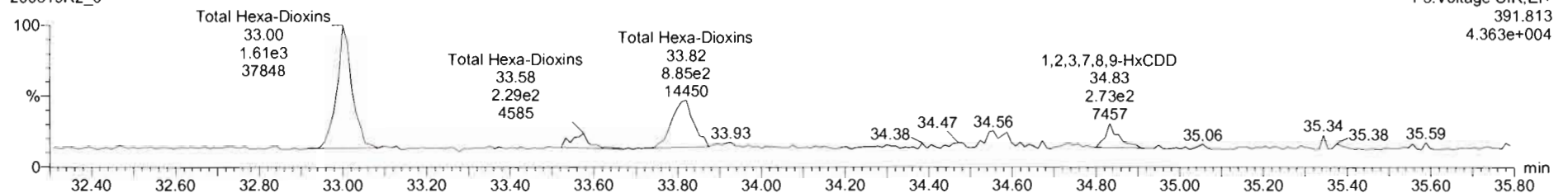
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1,2,3,4,7,8-HxCDD

200319R2_6

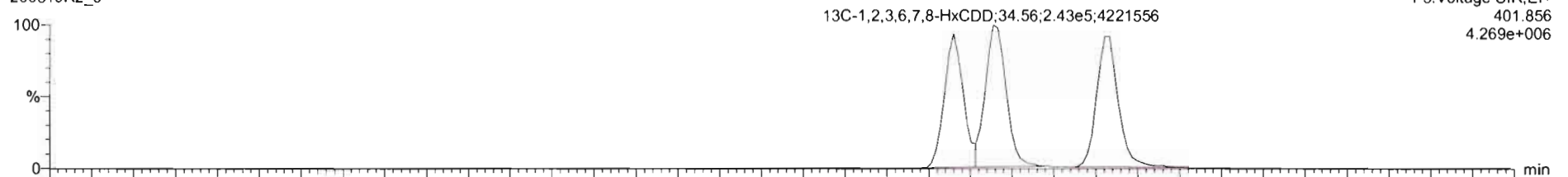


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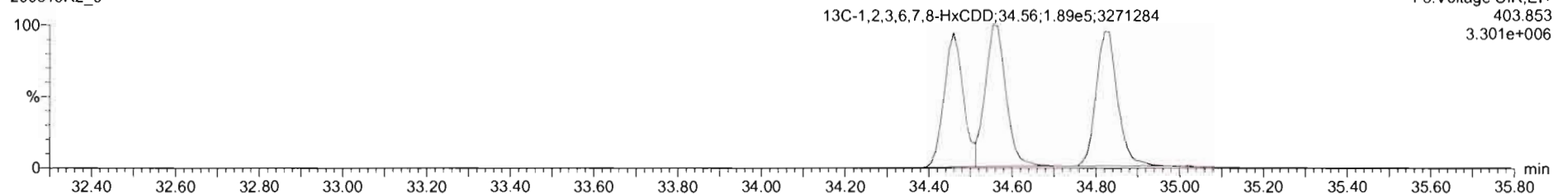


13C-1,2,3,4,7,8-HxCDD

200319R2_6



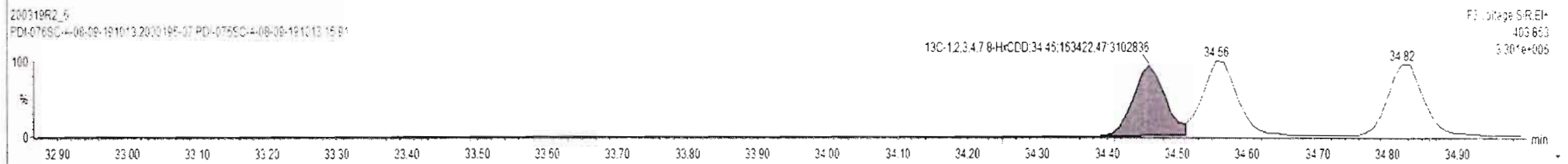
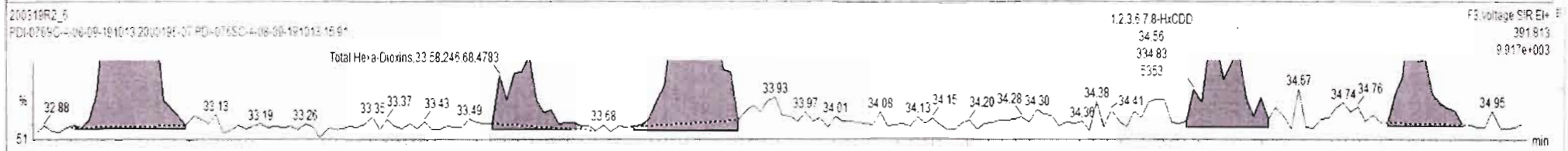
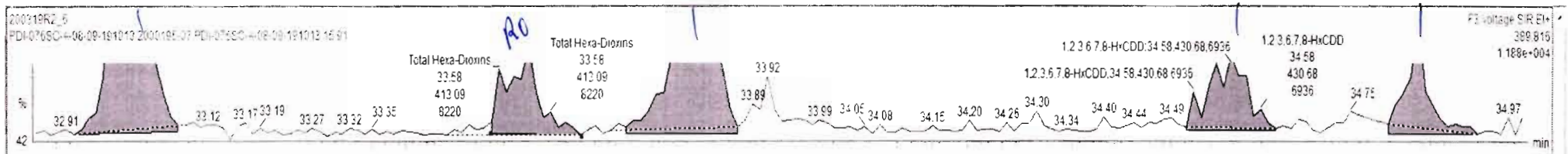
200319R2_6



200319R2_6 - 2000195-07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

Name	Resp	RA	nly	RF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5835	10.004			0.498		0.238	0.885
40 Total Penta-Dioxins				0.5212	10.004			0.278		0.258	0.517
41 Total Hexa-Dioxins				0.9844	10.004			3.52		0.232	3.79
42 Total Hepta-Dioxins				1.0061	10.004			12.1		0.359	12.1
43 Total Tetra-Furans				0.9154	10.004			2.36		0.142	3.12

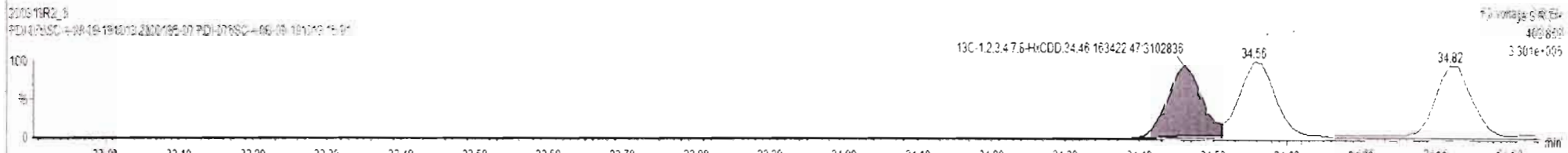
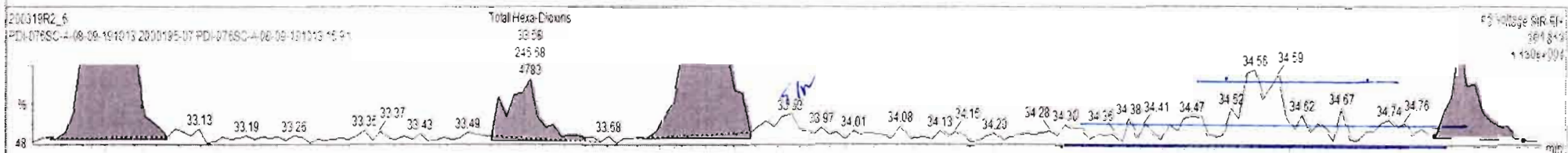
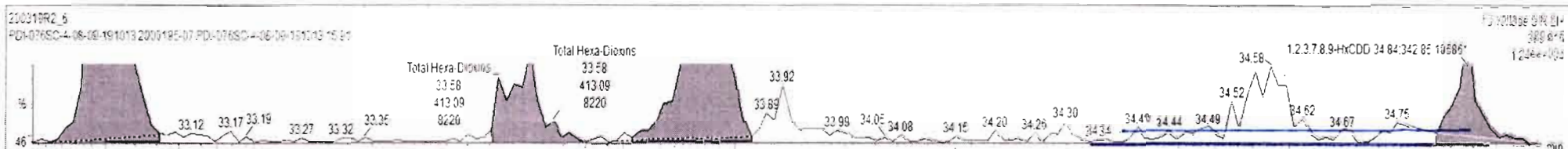
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Dioxins	33.01	1.845e2	1.634e3	1.13	NO	1.7362	1.7362
2 Total Hexa-Dioxins	33.58	4.131e2	2.467e2	1.67	YES	0.27573	0.00000
3 Total Hexa-Dioxins	33.92	1.252e3	9.520e2	1.32	NO	1.1000	1.1000
4 1,2,3,6,7,8-HxCDD	34.58	4.307e2	3.348e2	1.26	NO	0.35973	0.35973
5 1,2,3,7,8,9-HxCDD	34.84	2.646e2	2.683e2	1.26	NO	0.32296	0.32296



200319R2_6 - 2000195-07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

Name	Resp	RA	nly	RF6	wlvol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.004			0.498		0.208	0.888
40 Total Penta-Dioxins				0.5212	10.004			0.278		0.258	0.517
41 Total Hexa-Dioxins				0.9844	10.004			3.09		0.232	3.36
42 Total Hepta-Dioxins				1.0061	10.004			13.1		0.394	13.1
43 Total Tetra-Furans				0.9154	10.004			2.36		0.142	3.13

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	33.01	1.845e2	1.624e2	1.13	NO	1.7362	1.7362
2 Total Hexa-Dioxins	33.58	4.131e2	2.467e2	1.67	YES	0.27573	0.00000
3 Total Hexa-Dioxins	33.82	1.223e3	9.188e2	1.33	NO	1.0679	1.0679
4 1,2,3,7,8,9-HxCDD	34.84	3.037e2	2.725e2	1.15	NO	0.28375	0.28375



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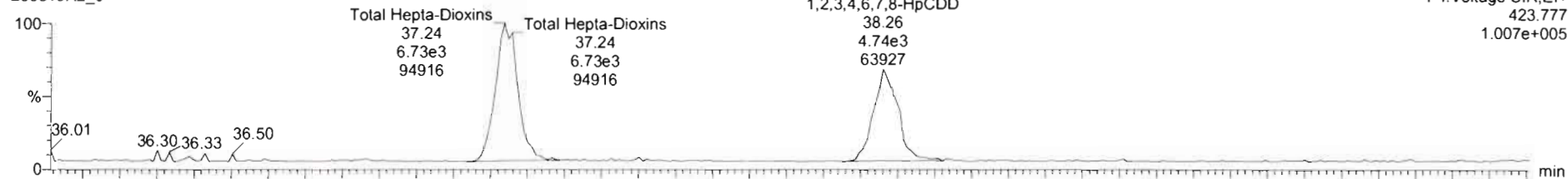
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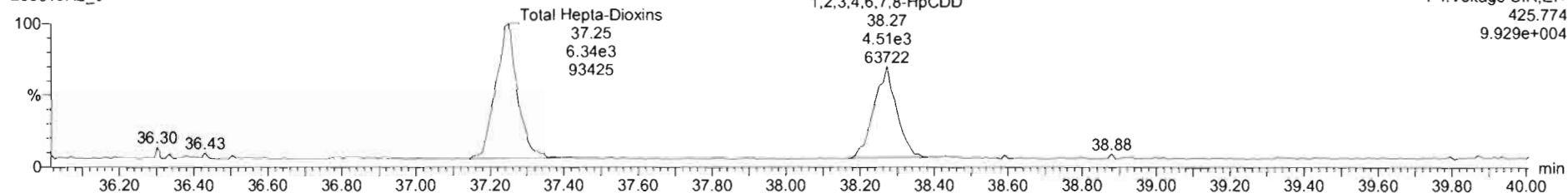
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1,2,3,4,6,7,8-HpCDD

200319R2_6

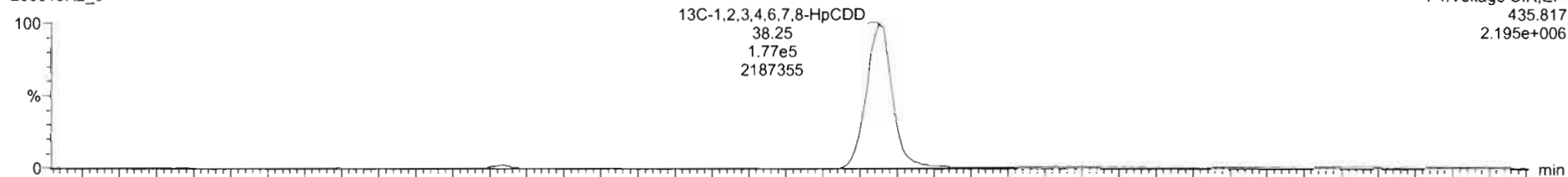


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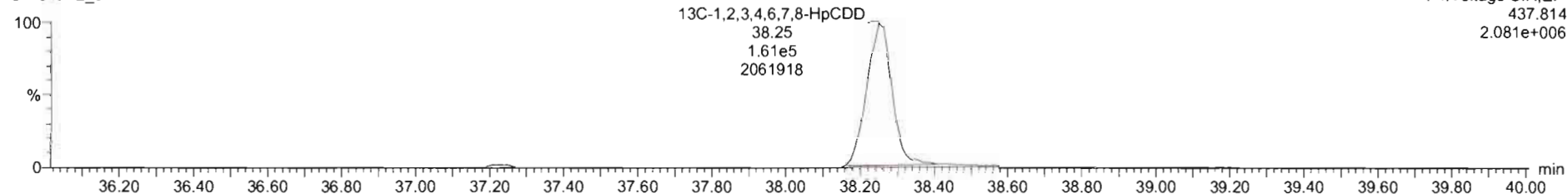


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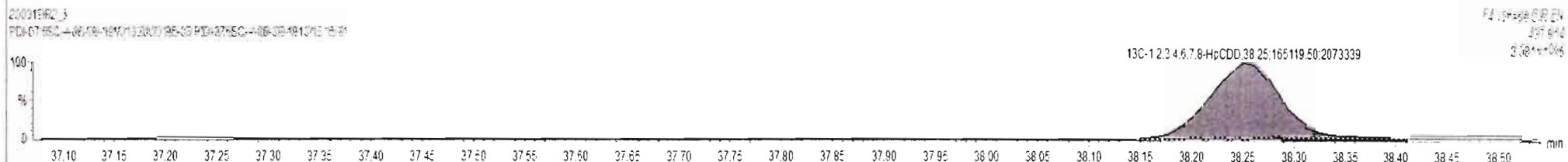
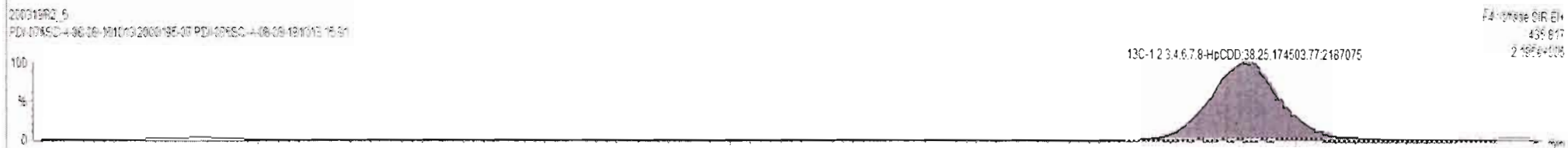
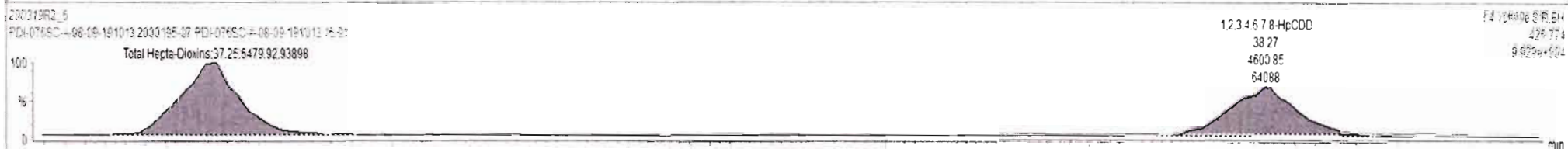
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200319R2_6 - 2000195-07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.004			0.498		0.238	0.898
40 Total Penta-Dioxins				0.9212	10.004			0.278		0.258	0.517
41 Total Hexa-Dioxins				0.9844	10.004			3.52		0.232	3.75
42 Total Hepta-Dioxins				1.0061	10.004			13.3		0.392	13.3
43 Total Tetra-Furans				0.9154	10.004			2.36		0.142	3.13

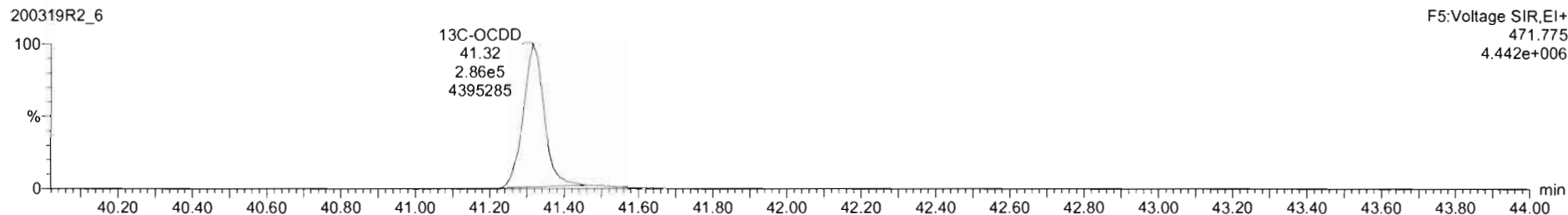
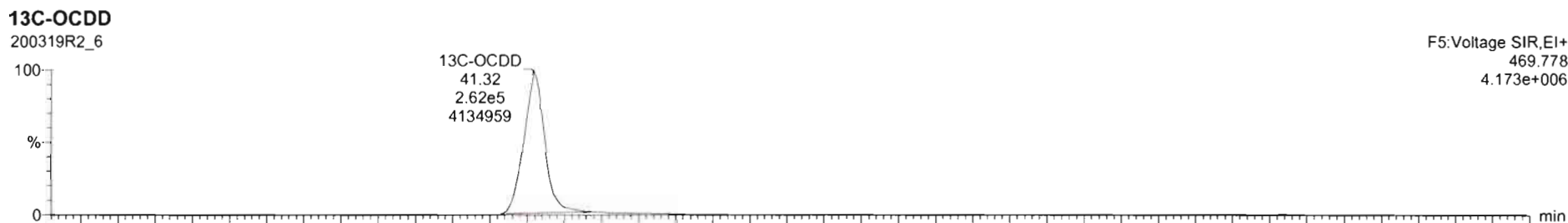
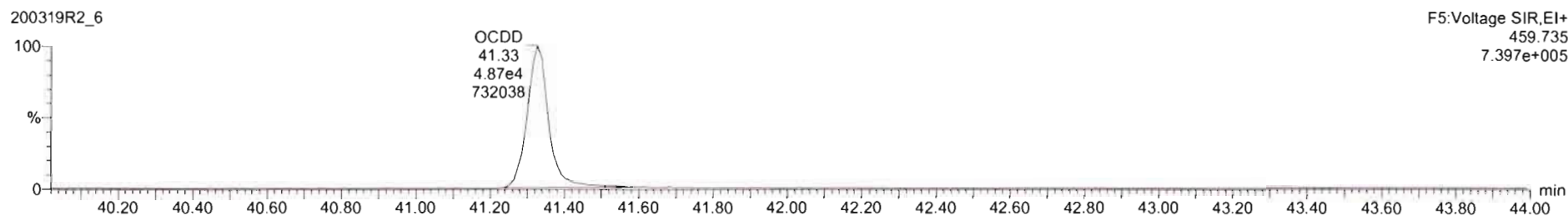
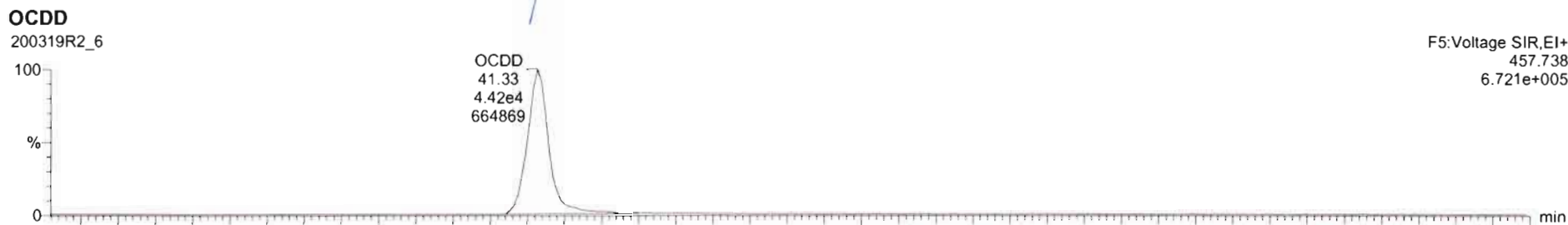
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.24	8.883e3	8.480e3	1.02	N/D	7.8186	7.8186
2 1,2,3,4,6,7,8-HpCDD	38.26	4.723e3	4.601e3	1.03	N/D	5.4555	5.4555



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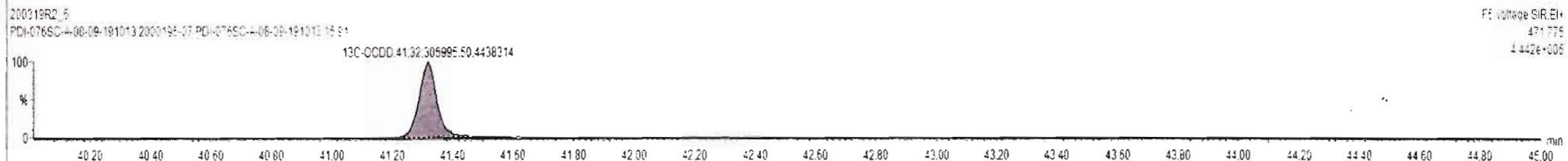
Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013



200319R2_6 - 2000195-07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	9.53e4	0.90	NO	1.0515	10.004	41.33	1.000	62.2		0.220	62.2
8 2,3,7,8-TCDF	2.71e3	0.70	NO	0.9154	10.004	24.78	1.001	0.603		0.142	0.603
9 1,2,3,7,8-PeCDF	3.21e3	1.7E	NO	0.9554	10.004	29.72	1.001	0.928		0.228	0.928
10 2,3,4,7,8-PeCDF	2.49e3	1.80	ES	1.0035	10.004	30.74	1.000	0.705		0.320	0.642
11 1,2,3,4,7,8-HxCDF	3.55e3	1.16	NO	1.0361	10.004	33.83	1.001	1.26		0.125	1.26

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

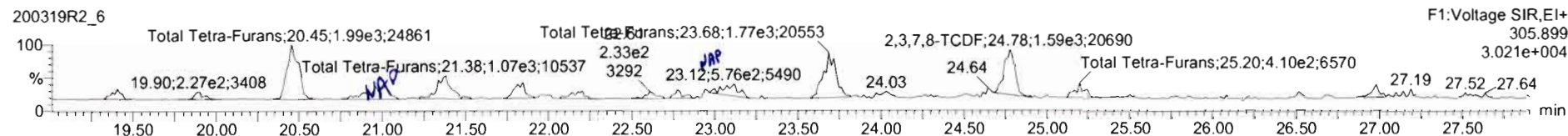
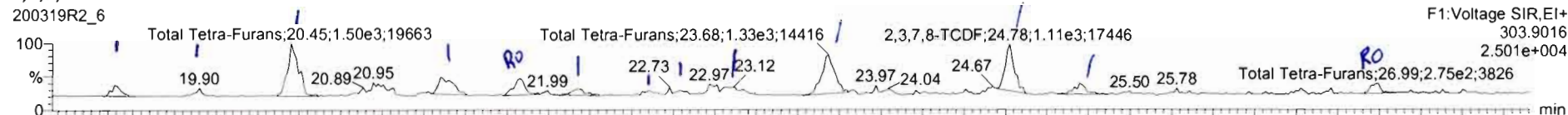


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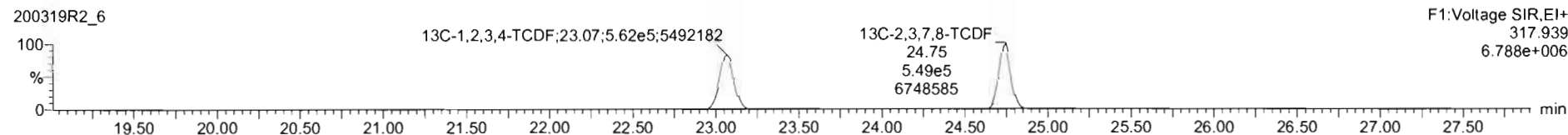
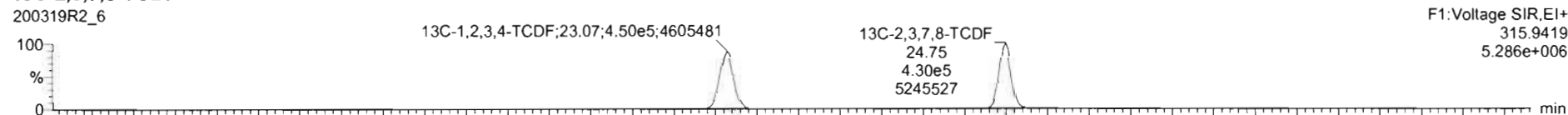
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Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

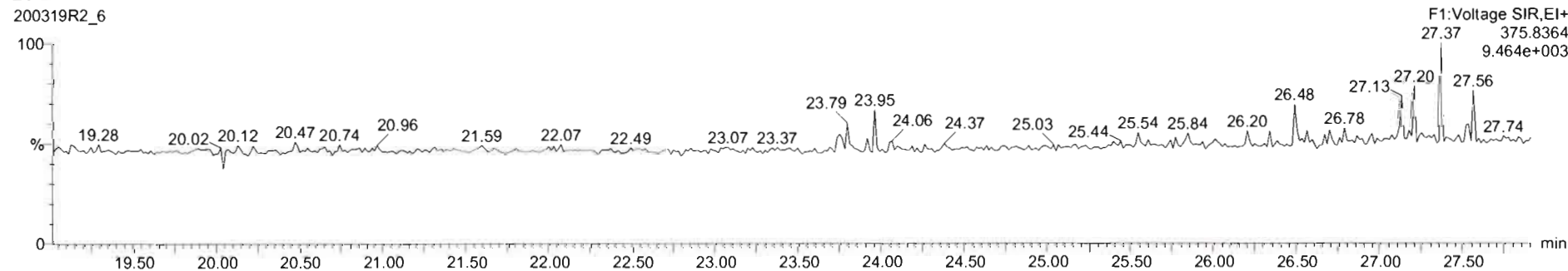
2,3,7,8-TCDF



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



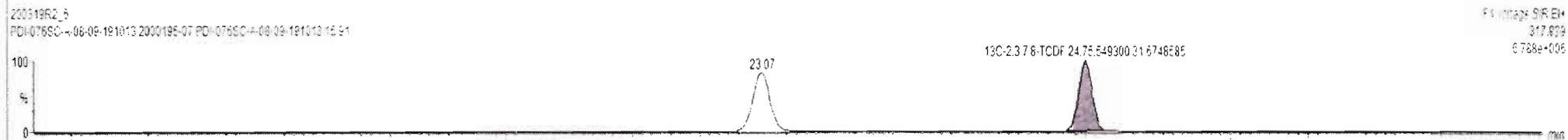
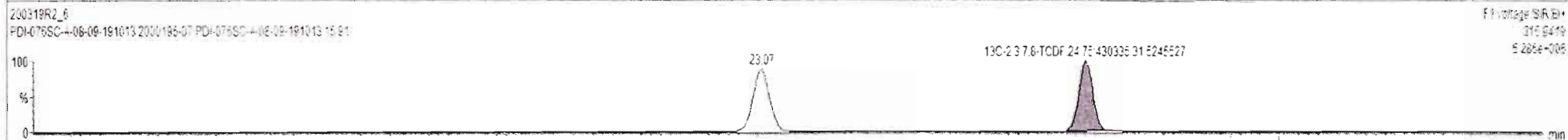
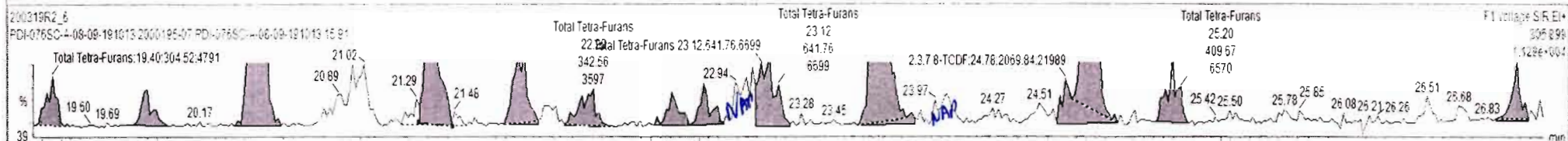
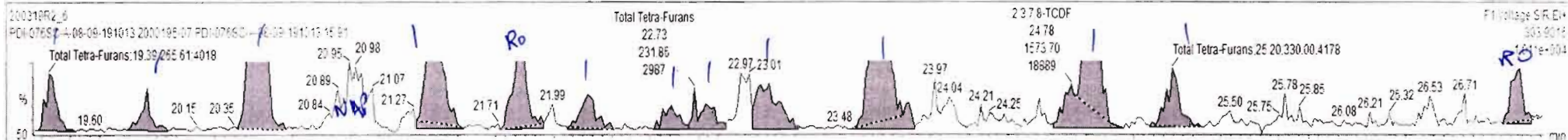
DPE1



200319R2_6 - 2000195-07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.004			3.56		0.142	4.02
44 1st: Func. Penta-Furans				0.9594	10.004			0.675		0.0506	0.675
45 Total Penta-Furans				0.9594	10.004			0.528		0.212	3.01
46 Total Hexa-Furans				1.0920	10.004			3.92		0.130	3.92
47 Total Hepta-Furans				1.0482	10.004			5.58		0.142	5.58

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.39	2.656e2	3.045e2	0.87	NO	0.12710	0.12710
2 Total Tetra-Furans	19.90	1.643e2	2.268e2	0.72	NO	0.067207	0.067207
3 Total Tetra-Furans	20.45	1.501e2	1.990e2	0.75	NO	0.77825	0.77825
4 Total Tetra-Furans	21.35	7.414e2	9.029e2	0.82	NO	0.36657	0.36657
5 Total Tetra-Furans	21.83	6.301e2	5.827e2	0.91	YES	0.22954	0.00000
6 Total Tetra-Furans	22.17	2.463e2	3.426e2	0.72	NO	0.13141	0.13141
7 Total Tetra-Furans	22.61	1.593e2	2.328e2	0.68	NO	0.067341	0.067341
8 Total Tetra-Furans	22.73	2.315e2	2.637e2	0.88	NO	0.11947	0.00000
9 Total Tetra-Furans	23.12	4.451e2	6.418e2	0.69	NO	0.24229	0.24229
10 Total Tetra-Furans	23.68	1.537e3	1.681e3	0.82	NO	0.76207	0.76207
11 2,3,7,8-TCDF	24.78	1.574e3	2.070e3	0.75	NO	0.81225	0.81225
12 Total Tetra-Furans	25.20	3.300e2	4.697e2	0.81	NO	0.16490	0.16490
13 Total Tetra-Furans	25.99	2.910e2	3.005e2	0.97	YES	0.11852	0.00000



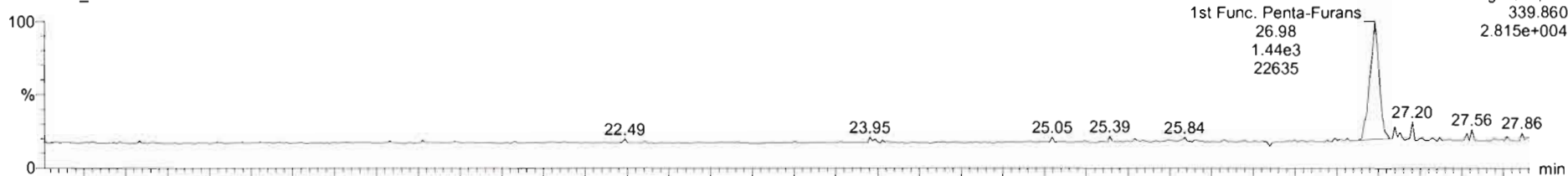
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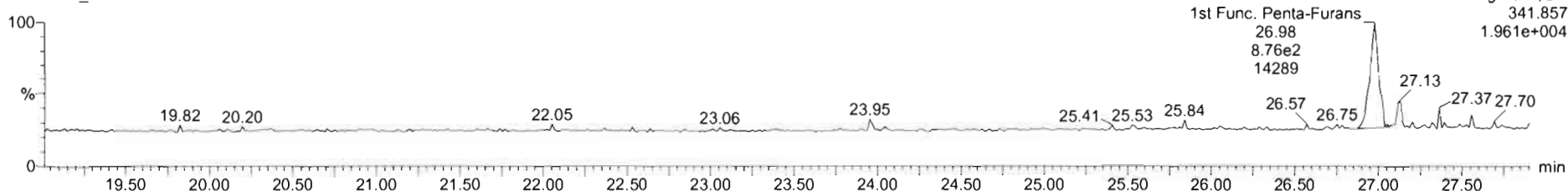
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1st Func. Penta-Furans

200319R2_6

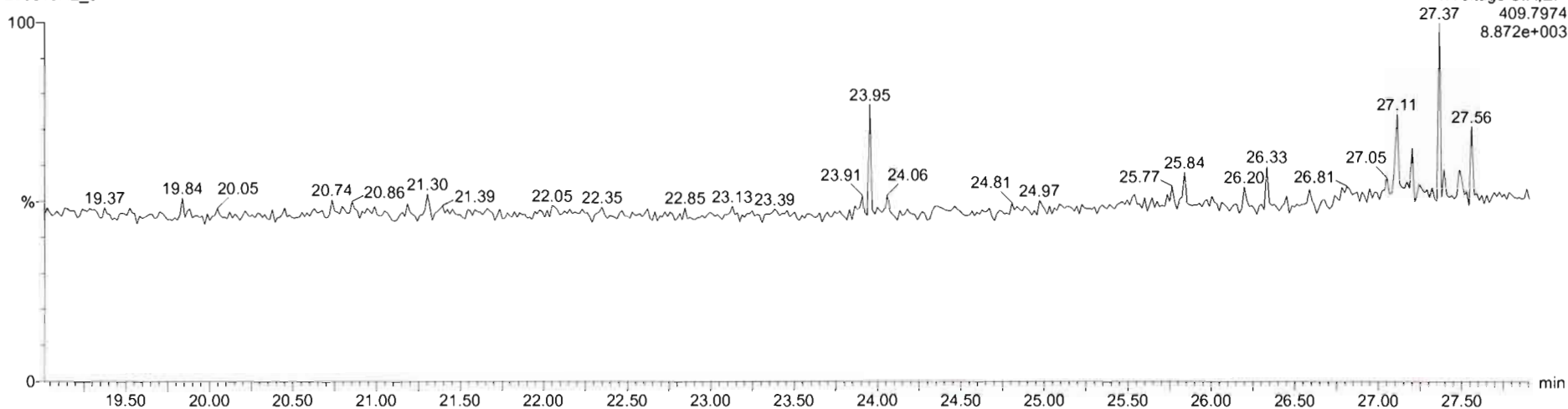


200319R2_6



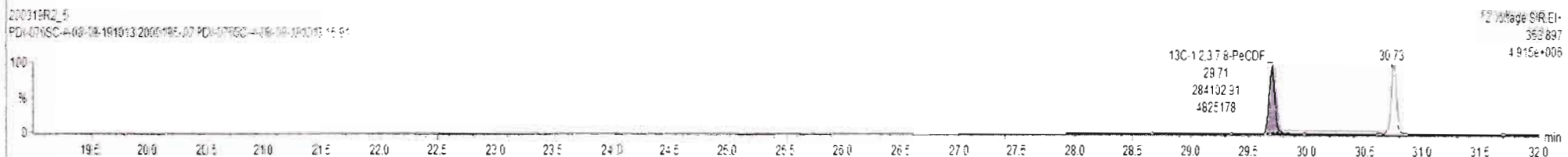
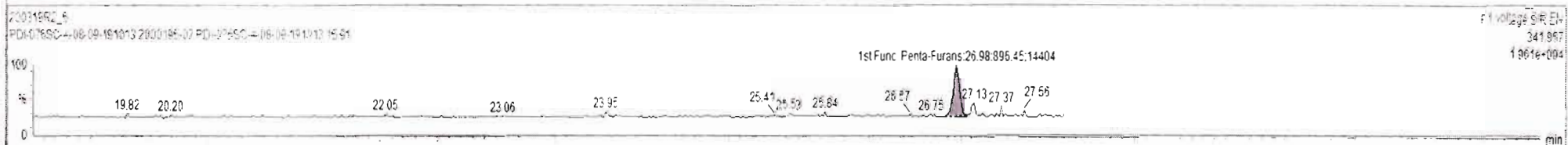
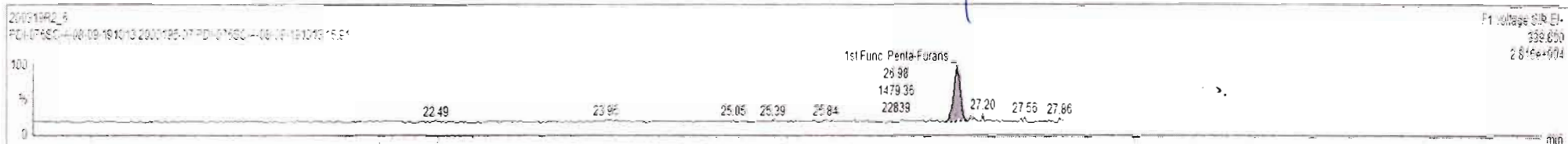
DPE6

200319R2_6



Name	Reso	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.004			3.56	0.142	4.00	
44 1st Func. Penta-Furans				0.9594	10.004			0.685	0.0505	0.685	
45 Total Penta-Furans				0.9594	10.004			0.922	0.222	2.99	
46 Total Hexa-Furans				1.0825	10.004			3.92	0.132	3.92	
47 Total Hepta-Furans				1.0482	10.004			5.58	0.142	5.58	

Name	RT	int Resp	mz Resp	RA	n/y	EMPC	Conc.
1 1st Func. Penta-Furans	26.98	1.479e2	8.965e2	1.05	NO	0.68540	0.68540

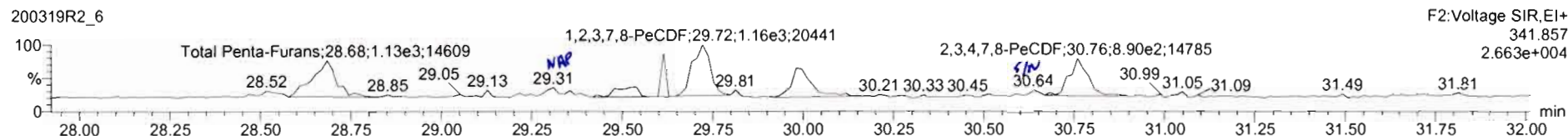
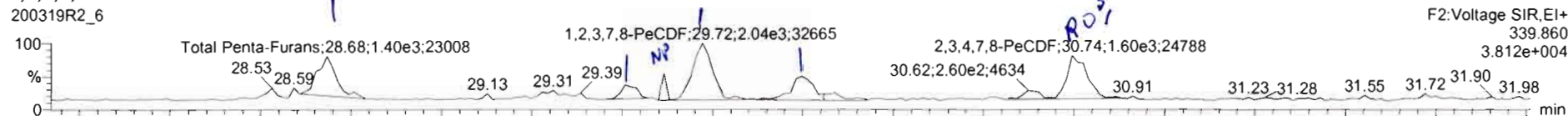


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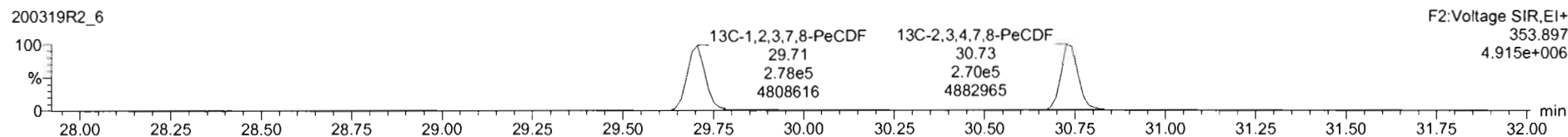
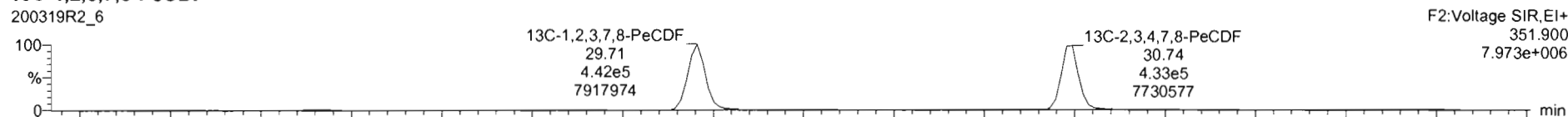
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Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

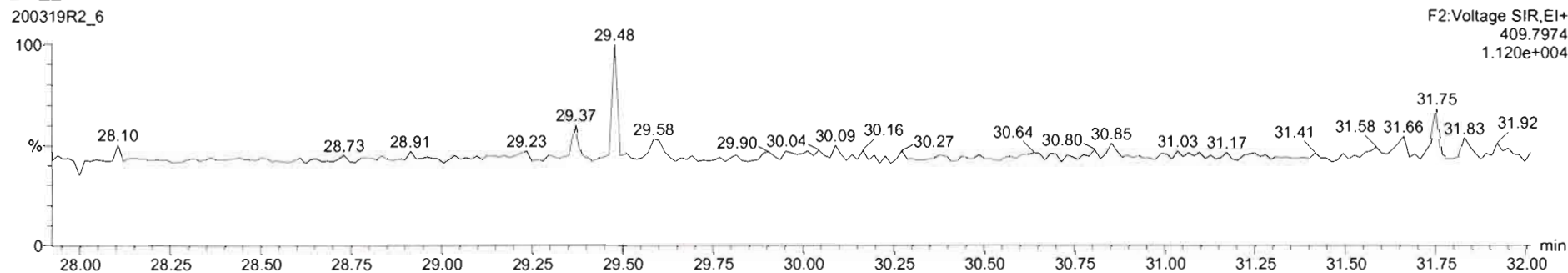
1,2,3,7,8-PeCDF



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

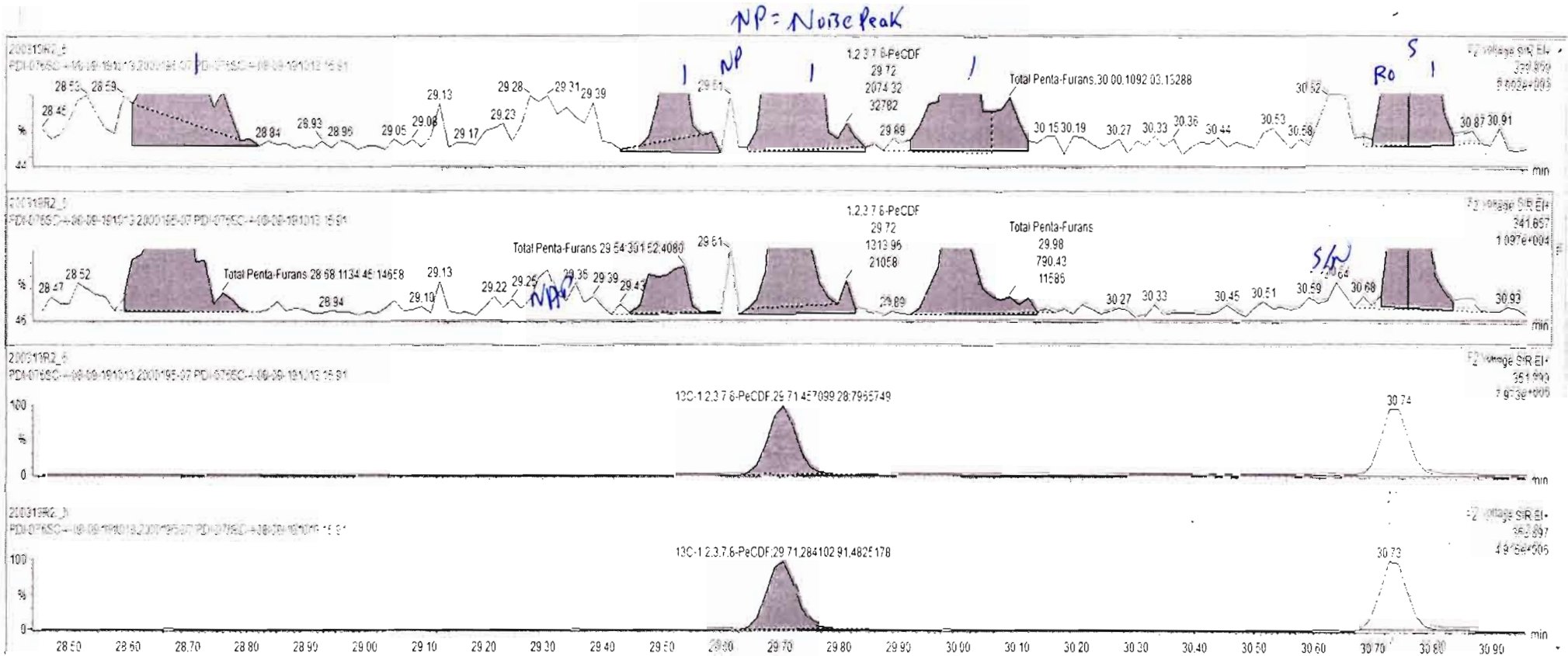


DPE2



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.004			2.93	0.333	3.19	
46 Total Hexa-Furans				1.0325	10.004			3.52	0.133	3.52	
47 Total Hepta-Furans				1.0483	10.004			5.58	0.142	6.58	
48 PFK1											
49 PFK2											

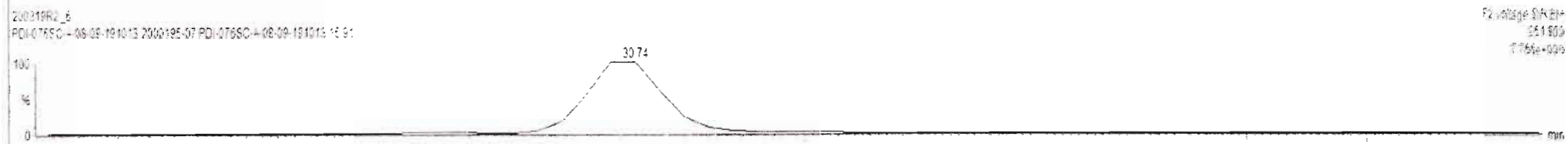
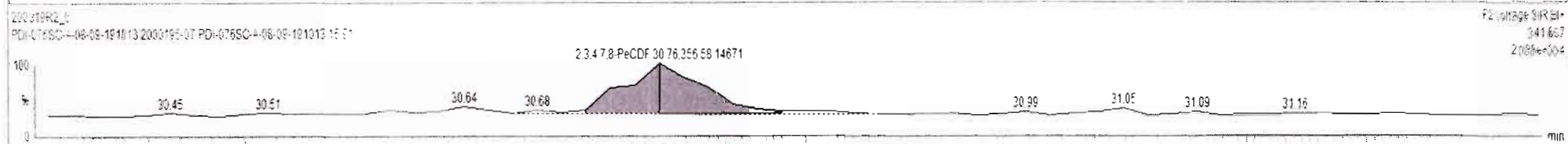
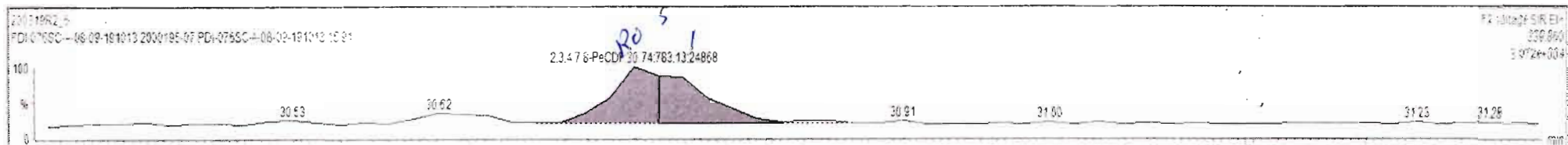
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.66	1.745e3	1.134e3	1.54	NO	0.83168	0.83168
2 Total Penta-Furans	29.51	5.267e2	3.015e2	1.75	NO	0.23894	0.23894
3 1,2,3,7,8-PeCDF	29.72	2.074e3	1.314e3	1.58	NO	0.95253	0.95253
4 Total Penta-Furans	30.00	1.052e3	7.904e2	1.38	NO	0.54388	0.54388
5 2,3,4,7,8-PeCDF	30.74	7.831e2	3.566e2	2.20	YES	0.29756	0.00000
6 Total Penta-Furans	30.78	7.873e2	4.652e2	1.89	NO	0.36147	0.36147



200319R2_6 - 2000195-07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.004			2.93		0.333	3.19
46 Total Hexa-Furans				1.0822	10.004			3.52		0.133	3.52
47 Total Hepta-Furans				1.0481	10.004			5.58		0.142	5.58
48 PPK1											
49 PPK2											

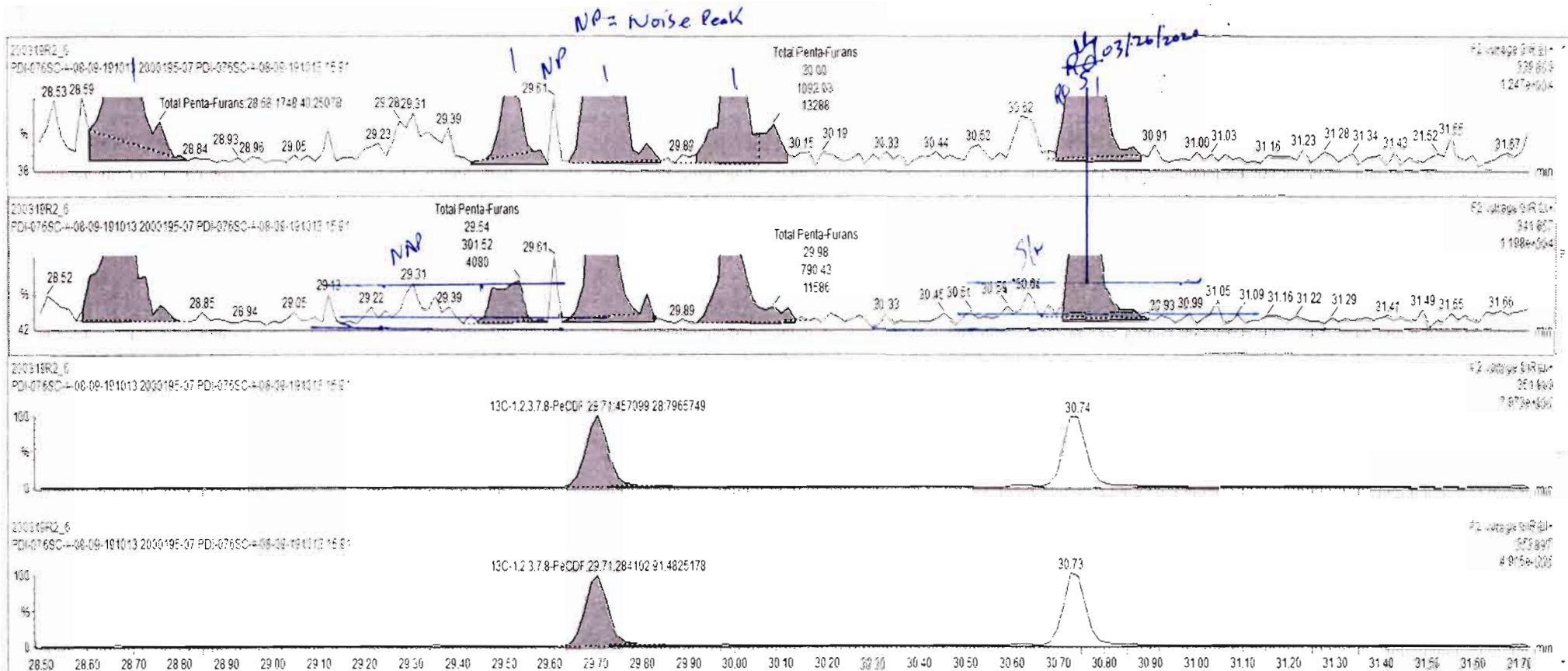
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.68	1.743e1	1.134e2	1.54	NO	0.82162	0.82166
2 Total Penta-Furans	29.51	5.287e2	3.015e2	1.75	NO	0.23884	0.23894
3 1,2,3,7,8-PeCDF	29.72	2.074e3	1.314e3	1.58	NO	0.95253	0.95253
4 Total Penta-Furans	30.00	1.052e3	7.504e2	1.38	NO	0.54308	0.54308
5 2,3,4,7,8-PeCDF	30.74	7.831e2	3.566e2	2.20	YES	0.25758	0.00000
6 Total Penta-Furans	30.76	7.878e2	4.652e2	1.69	NO	0.38147	0.38147



200319R2_6 - 2000195.07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.004			3.56		0.142	4.60
44 1s:Func. Penta-Furans				0.5594	10.004			0.665		0.2505	0.655
45 Total Penta-Furans				0.9594	10.004			2.57		0.333	3.23
46 Total Hexa-Furans				1.0920	10.004			3.92		0.133	3.92
47 Total Hepta-Furans				1.0481	10.004			5.58		0.143	5.58

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.68	1.745e1	1.134e3	1.54	NO	0.01168	0.03168
2 Total Penta-Furans	29.51	5.267e2	3.015e2	1.75	NO	0.23894	0.23894
3 1,2,3,7,8-PeCDF	29.72	2.074e3	1.314e3	1.58	NO	0.95253	0.95253
4 Total Penta-Furans	30.00	1.052e3	7.904e2	1.38	NO	0.54308	0.54308
5 2,3,4,7,8-PeCDF	30.74	1.677e3	9.164e2	1.83	YES	0.66192	0.00000

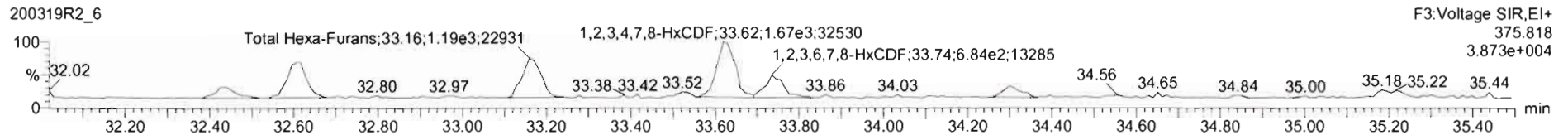
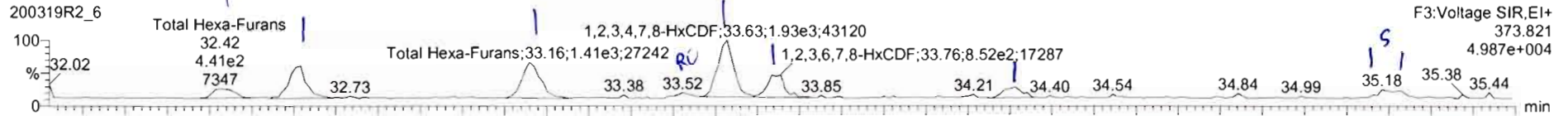


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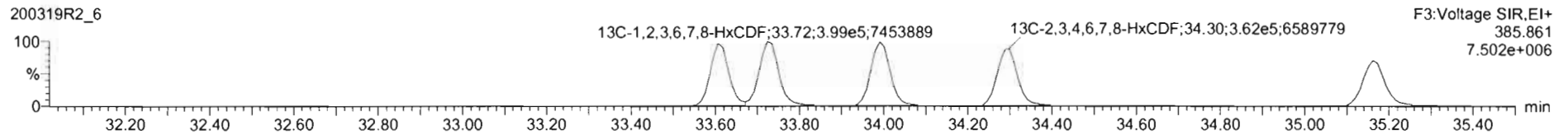
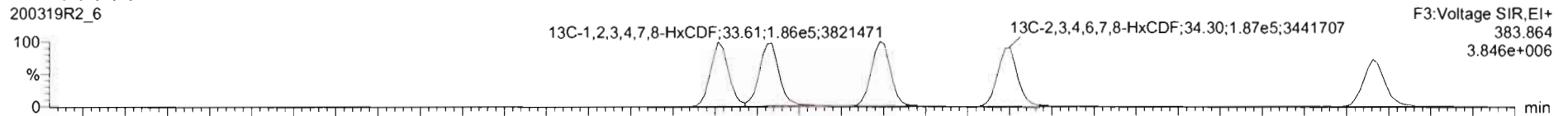
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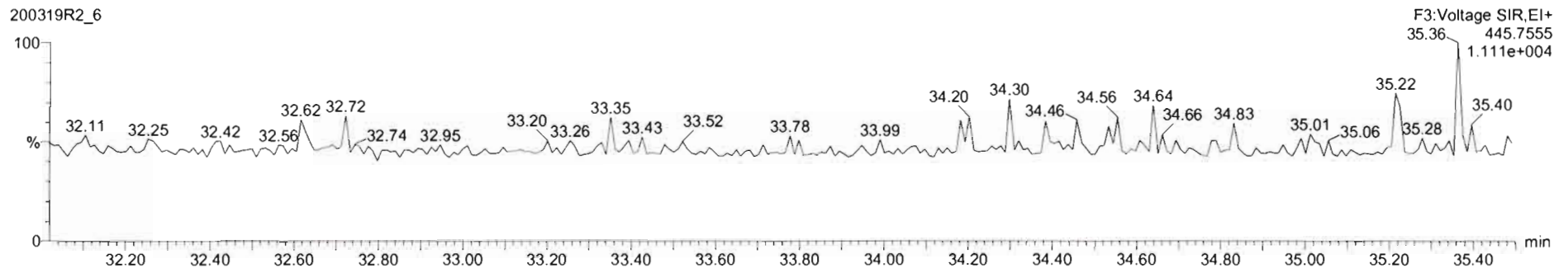
1,2,3,4,7,8-HxCDF



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

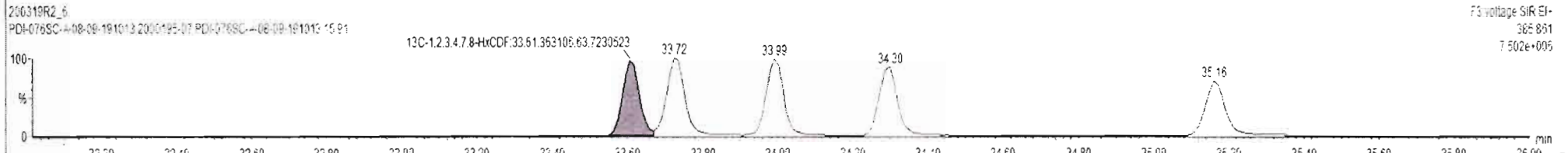
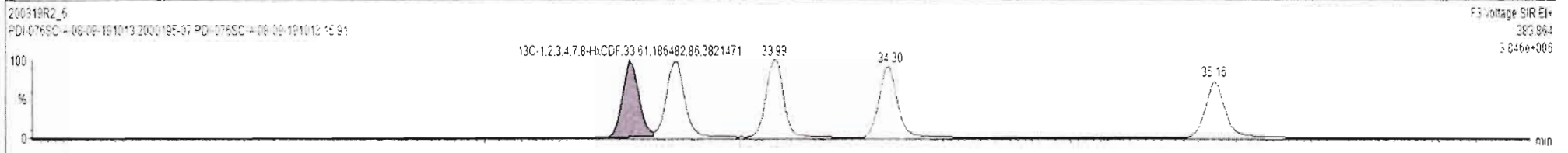
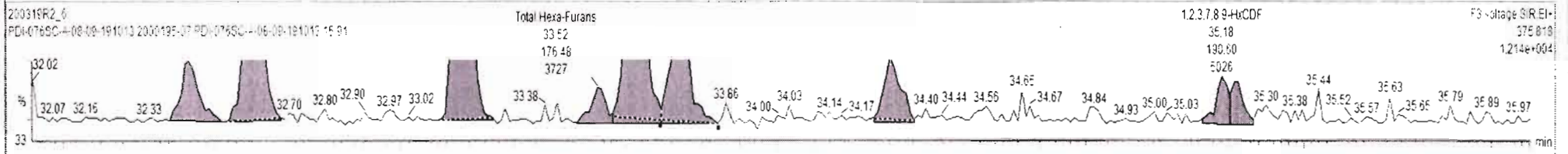
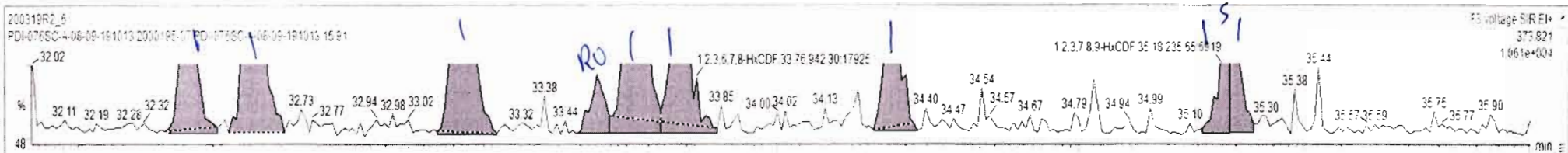


DPE3



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0920	10.004			4.38		0.133	4.49
47 Total Hepta-Furans				1.0483	10.004			5.75		0.142	5.75

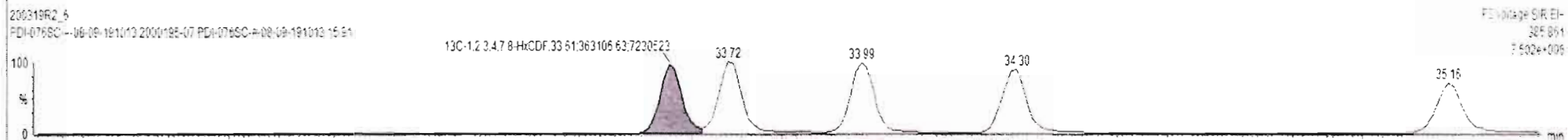
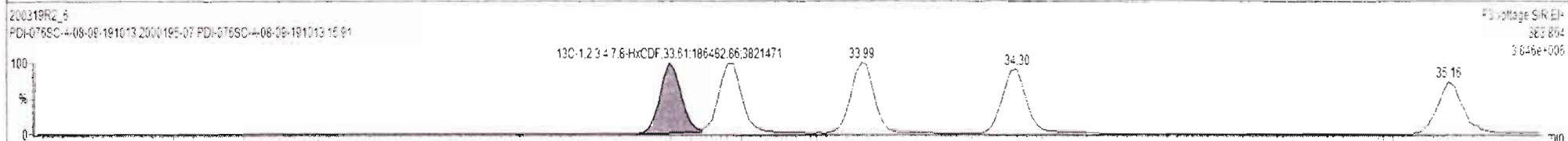
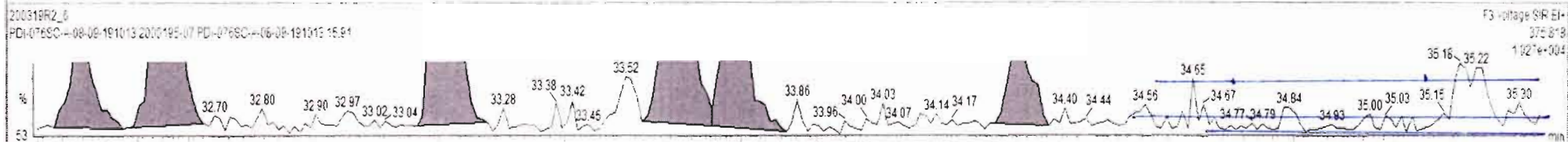
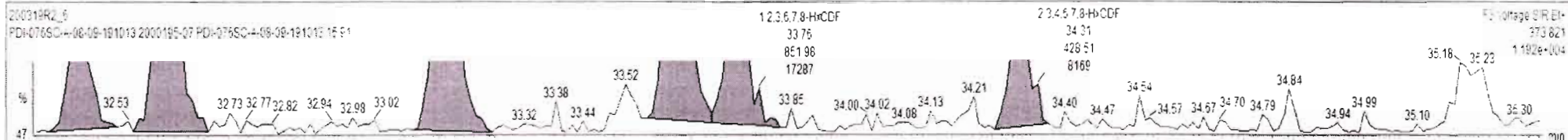
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.42	4.735e2	2.466e2	1.36	NO	0.27358	0.27398
2 Total Hexa-Furans	32.62	1.215e3	1.134e3	1.07	NO	0.78318	0.78318
3 Total Hexa-Furans	32.78	1.423e3	1.255e3	1.18	NO	0.87717	0.87717
4 Total Hexa-Furans	33.52	1.612e2	1.755e2	1.03	YES	0.10908	0.00000
5 1,2,3,4,7,8-HxCDF	33.63	2.874e3	1.731e3	1.26	NO	1.3332	1.3332
6 1,2,3,6,7,8-HxCDF	33.76	9.421e2	7.115e2	1.32	NO	0.54423	0.54423
7 2,2,4,6,7,8-HxCDF	34.31	4.684e2	3.513e2	1.33	NO	0.27316	0.27316
8 1,2,3,7,8,9-HxCDF	35.18	2.356e2	1.906e2	1.24	NO	0.16630	0.16630
9 Total Hexa-Furans	35.23	2.202e2	1.673e2	1.32	NO	0.12911	0.12911



200319R2_6 - 2000195-07 PDI-076SC-A-08-09-191013 15.91 - PDI-076SC-A-08-09-191013

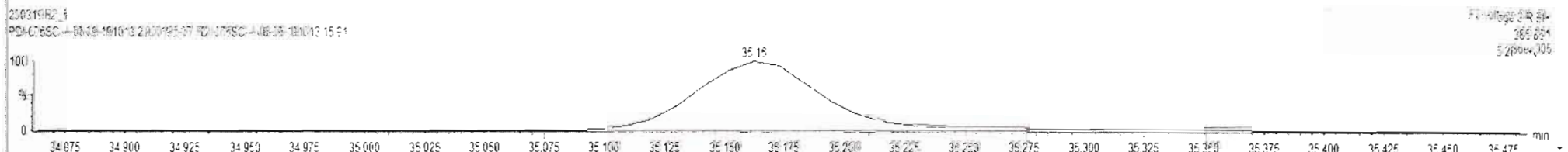
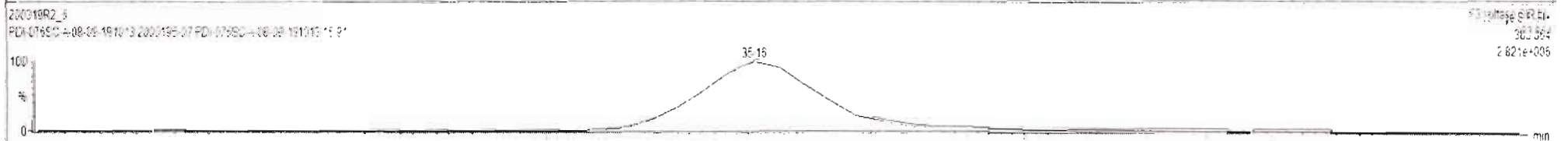
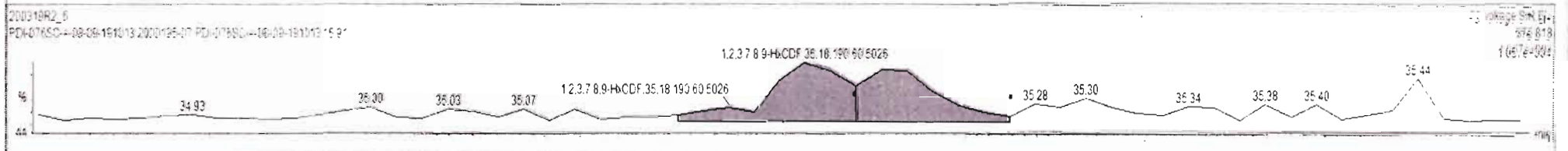
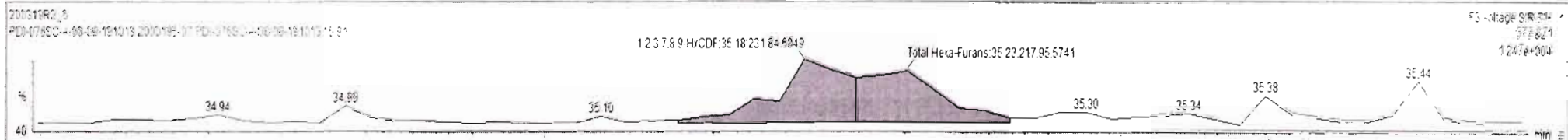
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.5594	10.004			2.93	0.232	3.15	
46 Total Hexa-Furans				1.0920	10.004			3.92	0.133	3.92	
47 Total Hepta-Furans				1.0462	10.004			5.58	0.142	5.55	
48 PFK1											
49 PFK2											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.42	4.493e2	3.498e2	1.26	NO	0.26299	0.26299
2 Total Hexa-Furans	32.62	1.213e2	1.117e3	1.09	NO	0.77647	0.77647
3 Total Hexa-Furans	32.16	1.408e2	1.188e2	1.19	NO	0.86489	0.86489
4 1,2,3,4,7,8-HxCDF	32.63	1.928e2	1.666e2	1.16	NO	1.2594	1.2594
5 1,2,3,6,7,8-HxCDF	33.78	8.525e2	8.838e2	1.25	NO	0.50524	0.50524
6 2,3,4,6,7,8-HxCDF	34.31	4.285e2	3.158e2	1.36	NO	0.24866	0.24866



Name	Resp	RA	nY	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.6594	10.004			2.92		0.333	3.19
46 Total Hexa-Furans				1.0525	10.004			4.21		0.133	4.21
47 Total Hepta-Furans				1.6487	10.004			5.58		0.142	5.58
48 PFx1											
49 PFx2											

Name	RT	m1 Resp	m2 Resp	RA	nY	EMPC	Conc
1 Total Hexa-Furans	32.42	4.403e2	3.435e2	1.26	NO	0.25295	0.26298
2 Total Hexa-Furans	32.62	1.213e2	1.117e2	1.25	NO	0.77547	0.77647
3 Total Hexa-Furans	33.16	1.405e3	1.122e3	1.19	NO	0.65485	0.65489
4 1,2,3,4,7,8-HxCDF	33.23	1.925e2	1.822e2	1.16	NO	1.2194	1.2594
5 1,2,3,6,7,8-HxCDF	32.78	2.922e2	2.832e2	1.24	NO	0.57524	0.61524
6 2,3,4,6,7,8-HxCDF	34.31	4.255e2	3.155e2	1.36	NO	0.24805	0.24806
7 1,2,3,7,8,9-HxCDF	35.18	2.718e2	1.995e2	1.32	NO	0.15481	0.16481
8 Total Hexa-Furans	35.23	2.175e2	1.673e2	1.30	NO	0.12036	0.12836

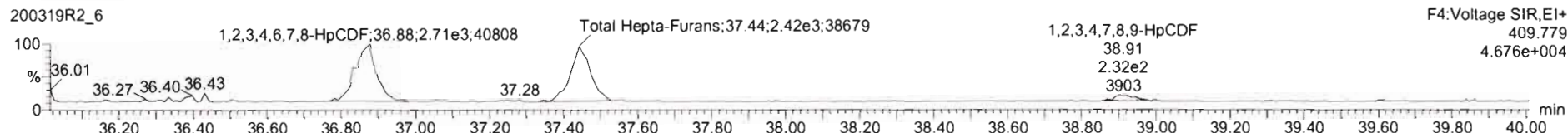
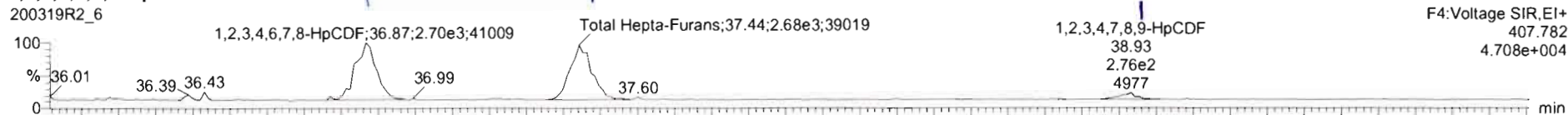


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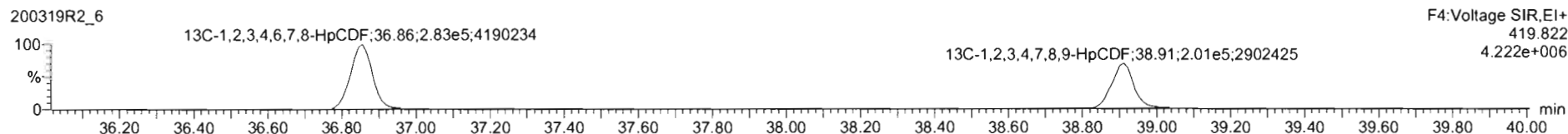
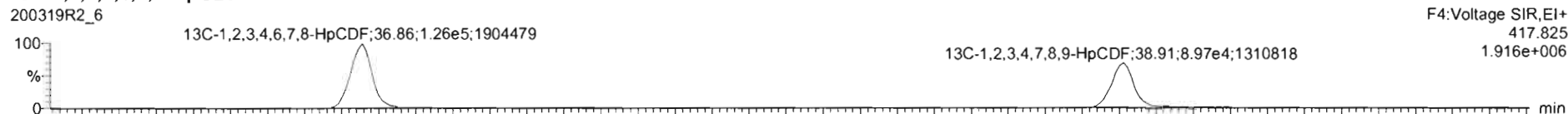
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Name: 200319R2_6, Date: 20-Mar-2020, Time: 09:08:21, ID: 2000195-07 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

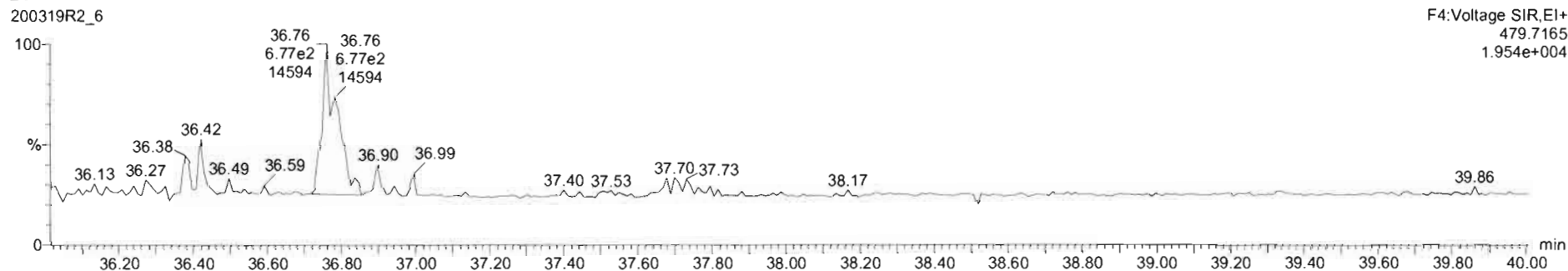
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13C-1,2,3,4,6,7,8-HpCDF

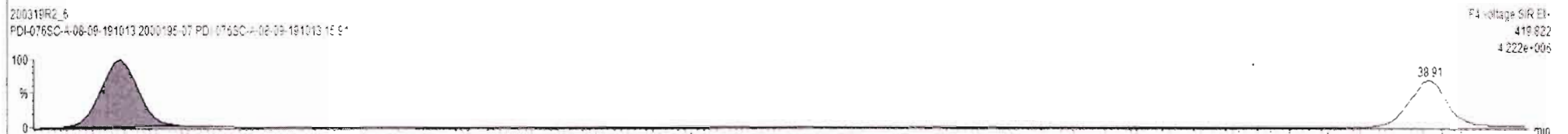
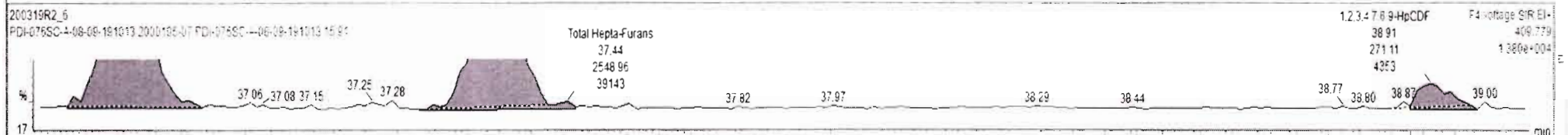
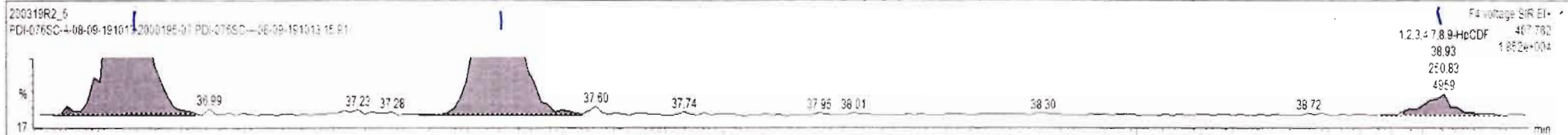


DPE4



Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9594	10.004			2.92	0.333	2.19	
46 Total Hexa-Furans				1.0920	10.004			4.25	0.132	4.25	
47 Total Hepta-Furans				1.0483	10.004			5.75	0.143	5.75	
48 PFK1											
49 PFK2											

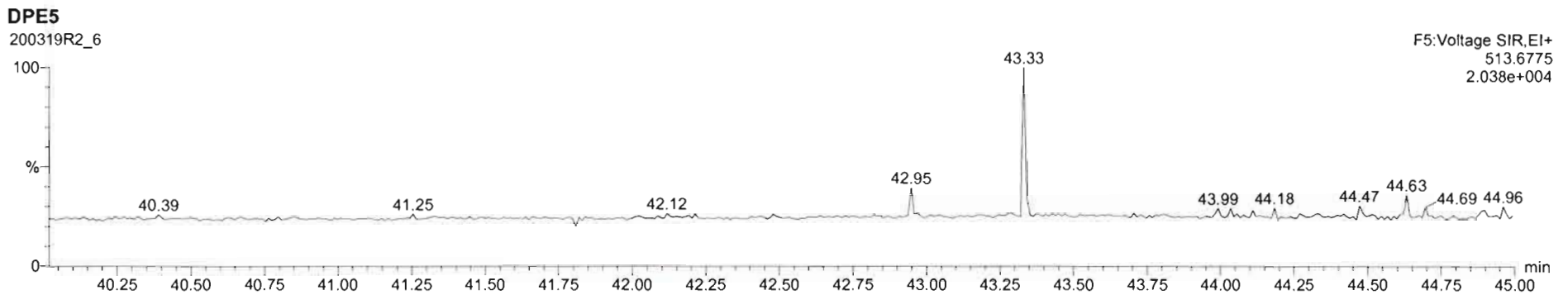
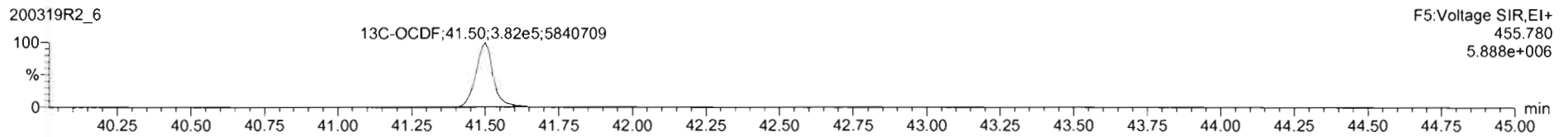
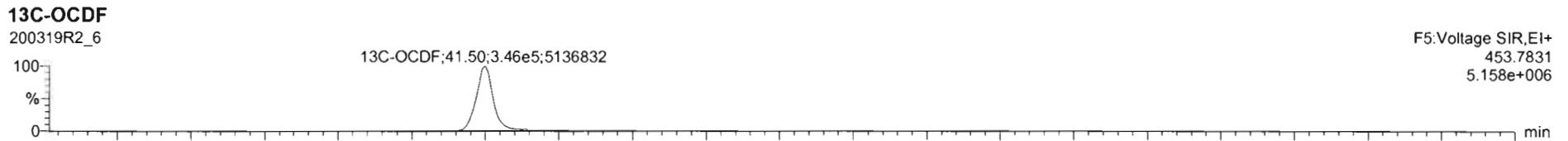
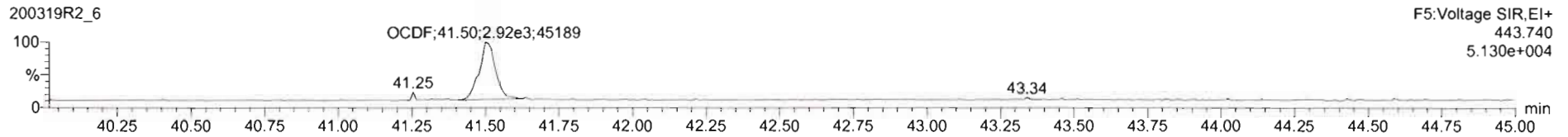
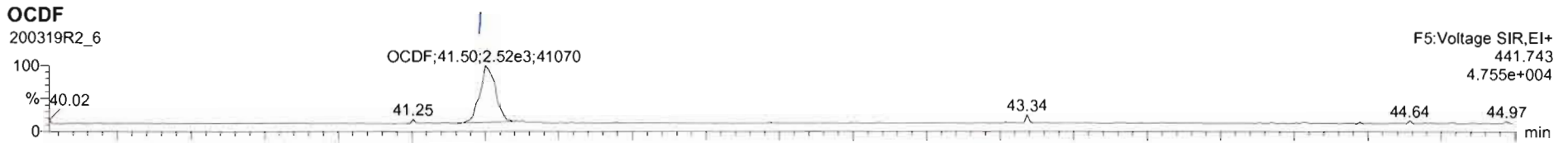
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.87	2.761e3	2.761e3	1.01	NO	2.5794	2.5794
2 Total Hepta-Furans	37.44	2.723e3	2.545e3	1.07	NO	2.8696	2.8696
3 1,2,3,4,7,8,9-HpCDF	38.93	2.503e2	2.711e2	0.93	NO	0.29641	0.29641



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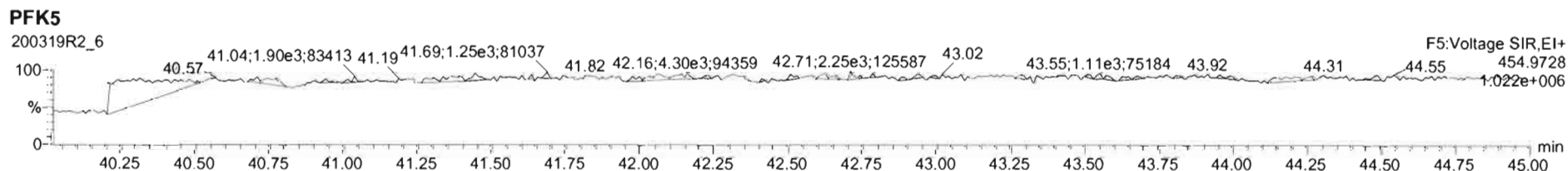
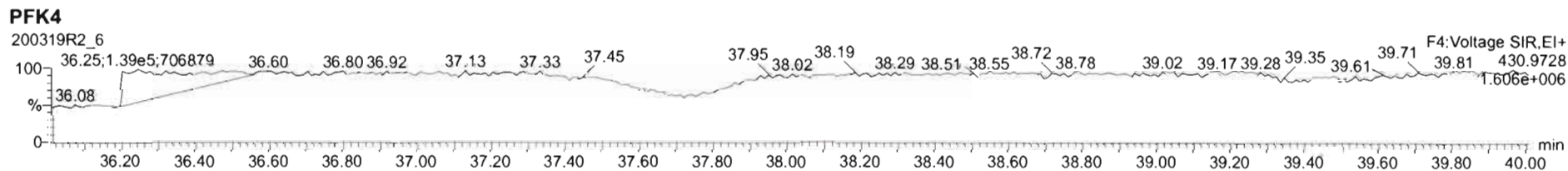
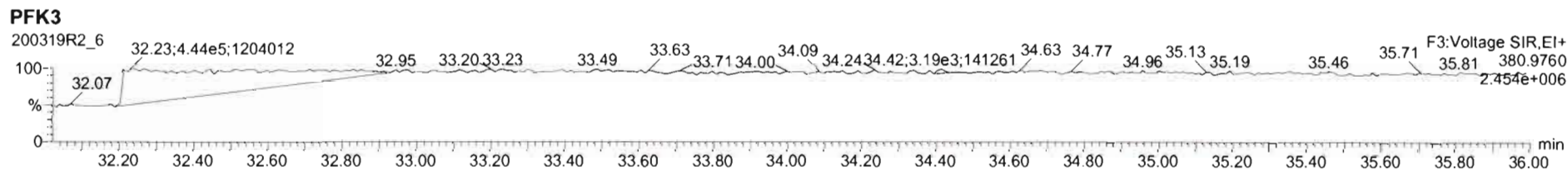
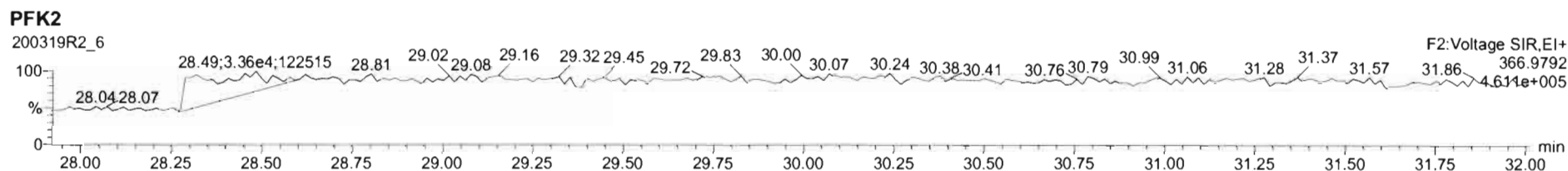
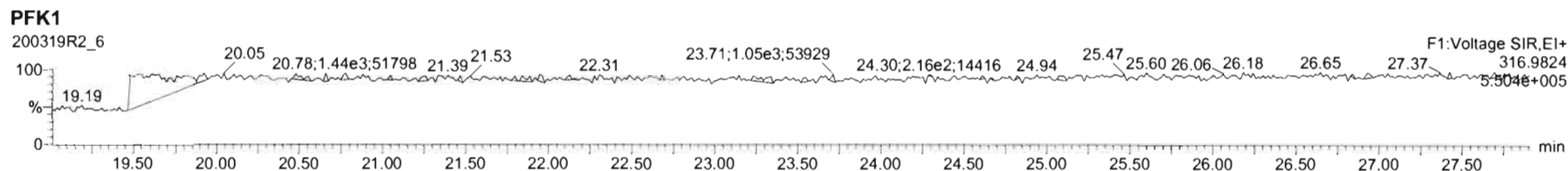
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Dataset: U:\VG12.PRO\Results\200319R2\200319R2-7.qld

Last Altered: Thursday, March 26, 2020 11:32:52 AM Pacific Daylight Time
Printed: Thursday, March 26, 2020 11:36:46 AM Pacific Daylight Time

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Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_7, Date: 20-Mar-2020, Time: 09:56:00, ID: 2000195-08 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

#	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	0.983	10.016	25.766		1.001				0.130	
2	2 1,2,3,7,8-PeCDD			NO	0.921	10.016	31.055		1.001				0.121	
3	3 1,2,3,4,7,8-HxCDD			NO	1.13	10.016	34.459		1.000				0.0759	
4	4 1,2,3,6,7,8-HxCDD	6.02e2	1.21	NO	0.984	10.016	34.555	34.58	1.000	1.001	0.23545		0.0762	0.235
5	5 1,2,3,7,8,9-HxCDD	5.20e2	1.27	NO	0.967	10.016	34.831	34.82	1.000	1.000	0.21868		0.0833	0.219
6	6 1,2,3,4,6,7,8-HpCDD	1.53e4	1.02	NO	1.01	10.016	38.251	38.26	1.000	1.001	7.4532		0.314	7.45
7	7 OCDD	1.39e5	0.88	NO	1.05	10.016	41.308	41.33	1.000	1.001	73.601		0.403	73.6
8	8 2,3,7,8-TCDF	5.50e3	0.79	NO	0.915	10.016	24.758	24.75	1.001	1.001	1.1340 (0.9923)		0.0954	1.13
9	9 1,2,3,7,8-PeCDF	6.32e3	1.68	NO	0.959	10.016	29.711	29.71	1.001	1.001	1.5479		0.0688	1.55
10	10 2,3,4,7,8-PeCDF	2.50e3	1.44	NO	1.00	10.016	30.744	30.74	1.001	1.001	0.62838		0.0639	0.628
11	11 1,2,3,4,7,8-HxCDF	7.00e3	1.32	NO	1.04	10.016	33.607	33.62	1.000	1.000	2.1426		0.0523	2.14
12	12 1,2,3,6,7,8-HxCDF	2.30e3	1.33	NO	1.01	10.016	33.734	33.74	1.000	1.000	0.66073		0.0521	0.661
13	13 2,3,4,6,7,8-HxCDF	8.75e2	1.03	YES	1.09	10.016	34.323	34.30	1.001	1.000	0.24719		0.0530	0.226
14	14 1,2,3,7,8,9-HxCDF	5.54e2	1.34	NO	1.03	10.016	35.162	35.19	1.000	1.001	0.19549		0.0741	0.195
15	15 1,2,3,4,6,7,8-HpCDF	5.50e3	0.94	NO	1.05	10.016	36.882	36.85	1.001	1.000	2.1053		0.128	2.11
16	16 1,2,3,4,7,8,9-HpCDF	8.62e2	0.90	NO	1.21	10.016	38.901	38.91	1.000	1.000	0.41318		0.152	0.413
17	17 OCDF	8.79e3	0.88	NO	0.947	10.016	41.499	41.51	1.000	1.000	4.1213		0.341	4.12
18	18 13C-2,3,7,8-TCDD	7.42e5	0.79	NO	1.18	10.016	25.720	25.74	1.029	1.029	194.78	97.6	0.241	
19	19 13C-1,2,3,7,8-PeCDD	5.43e5	0.64	NO	0.864	10.016	30.900	31.03	1.236	1.241	195.15	97.7	0.314	
20	20 13C-1,2,3,4,7,8-HxCDD	4.46e5	1.27	NO	0.754	10.016	34.463	34.45	1.014	1.013	179.16	89.7	0.373	
21	21 13C-1,2,3,6,7,8-HxCDD	5.19e5	1.27	NO	0.925	10.016	34.572	34.56	1.017	1.017	169.80	85.0	0.304	
22	22 13C-1,2,3,7,8,9-HxCDD	4.91e5	1.27	NO	0.829	10.016	34.834	34.82	1.025	1.024	179.21	89.7	0.339	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.07e5	1.12	NO	0.598	10.016	38.294	38.24	1.127	1.125	205.74	103	0.587	
24	24 13C-OCDD	7.19e5	0.92	NO	0.571	10.016	41.445	41.31	1.219	1.215	381.17	95.4	0.623	
25	25 13C-2,3,7,8-TCDF	1.06e6	0.79	NO	1.09	10.016	24.742	24.73	0.990	0.989	180.97	90.6	0.307	
26	26 13C-1,2,3,7,8-PeCDF	8.49e5	1.61	NO	0.876	10.016	29.572	29.69	1.183	1.188	180.71	90.5	0.482	
27	27 13C-2,3,4,7,8-PeCDF	7.91e5	1.60	NO	0.844	10.016	30.582	30.71	1.223	1.228	174.86	87.6	0.500	
28	28 13C-1,2,3,4,7,8-HxCDF	6.29e5	0.52	NO	1.00	10.016	33.610	33.61	0.989	0.989	190.25	95.3	0.587	
29	29 13C-1,2,3,6,7,8-HxCDF	6.86e5	0.52	NO	1.12	10.016	33.719	33.72	0.992	0.992	185.93	93.1	0.525	
30	30 13C-2,3,4,6,7,8-HxCDF	6.47e5	0.52	NO	1.04	10.016	34.300	34.29	1.009	1.009	189.29	94.8	0.567	
31	31 13C-1,2,3,7,8,9-HxCDF	5.51e5	0.51	NO	0.873	10.016	35.174	35.16	1.035	1.034	191.05	95.7	0.673	

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-7.qld

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Printed: Thursday, March 26, 2020 11:36:46 AM Pacific Daylight Time

Name: 200319R2_7, Date: 20-Mar-2020, Time: 09:56:00, ID: 2000195-08 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.97e5	0.44	NO	0.771	10.016	36.890	36.85	1.085	1.084	195.32	97.8	0.579	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.44e5	0.44	NO	0.519	10.016	38.977	38.90	1.147	1.144	200.64	100	0.859	
34	34 13C-OCDF	9.00e5	0.89	NO	0.696	10.016	41.625	41.50	1.225	1.221	391.40	98.0	0.443	
35	35 37Cl-2,3,7,8-TCDD	2.92e5			1.17	10.016	25.730	25.75	1.029	1.030	77.245	96.7	0.131	
36	36 13C-1,2,3,4-TCDD	6.43e5	0.79	NO	1.00	10.016	25.050	25.00	1.000	1.000	199.67	100	0.286	
37	37 13C-1,2,3,4-TCDF	1.07e6	0.79	NO	1.00	10.016	23.190	23.07	1.000	1.000	199.67	100	0.334	
38	38 13C-1,2,3,4,6,9-HxCDF	6.59e5	0.52	NO	1.00	10.016	33.880	33.99	1.000	1.000	199.67	100	0.587	
39	39 Total Tetra-Dioxins				0.983	10.016	24.620		0.000		0.00000		0.0505	0.246
40	40 Total Penta-Dioxins				0.921	10.016	29.960		0.000		0.098098		0.121	0.285
41	41 Total Hexa-Dioxins				0.984	10.016	33.635		0.000		3.2820		0.0815	3.28
42	42 Total Hepta-Dioxins				1.01	10.016	37.640		0.000		16.209		0.314	16.2
43	43 Total Tetra-Furans				0.915	10.016	23.610		0.000		3.6860		0.0954	4.22
44	44 1st Func. Penta-Furans				0.959	10.016	27.090		0.000		0.61926		0.0592	0.619
45	45 Total Penta-Furans				0.959	10.016	29.275		0.000		4.4688		0.0679	4.58
46	46 Total Hexa-Furans				1.09	10.016	33.555		0.000		4.9097		0.0546	5.14
47	47 Total Hepta-Furans				1.05	10.016	37.835		0.000		5.5461		0.148	5.55

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-7.qld

Last Altered: Thursday, March 26, 2020 11:32:52 AM Pacific Daylight Time

Printed: Thursday, March 26, 2020 11:36:46 AM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_7, Date: 20-Mar-2020, Time: 09:56:00, ID: 2000195-08 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.27	5.004e3	5.778e3	4.565e2	5.087e2	0.90	YES	0.000e0	0.00000	0.24624	0.130

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.74	2.936e3	5.141e3	9.721e1	1.485e2	0.65	NO	2.457e2	0.098098	0.098098	0.121
2	Total Penta-Dioxins	29.22	6.518e3	3.993e3	2.191e2	2.879e2	0.76	YES	0.000e0	0.00000	0.18736	0.121

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	32.99	3.601e4	2.704e4	2.000e3	1.552e3	1.29	NO	3.553e3	1.4847	1.4847	0.0815
2	Total Hexa-Dioxins	33.56	5.026e3	4.106e3	2.513e2	2.008e2	1.25	NO	4.521e2	0.18896	0.18896	0.0815
3	Total Hexa-Dioxins	33.80	2.420e4	1.725e4	1.526e3	1.236e3	1.24	NO	2.762e3	1.1542	1.1542	0.0815
4	1,2,3,6,7,8-HxCDD	34.58	6.017e3	4.680e3	3.300e2	2.725e2	1.21	NO	6.024e2	0.23545	0.23545	0.0762
5	1,2,3,7,8,9-HxCDD	34.82	3.916e3	4.488e3	2.905e2	2.296e2	1.27	NO	5.201e2	0.21868	0.21868	0.0833

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.24	1.189e5	1.116e5	9.190e3	8.744e3	1.05	NO	1.793e4	8.7558	8.7558	0.314
2	1,2,3,4,6,7,8-HpCDD	38.26	9.289e4	8.542e4	7.692e3	7.573e3	1.02	NO	1.527e4	7.4532	7.4532	0.314

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-7.qld

Last Altered: Thursday, March 26, 2020 11:32:52 AM Pacific Daylight Time

Printed: Thursday, March 26, 2020 11:36:46 AM Pacific Daylight Time

Name: 200319R2_7, Date: 20-Mar-2020, Time: 09:56:00, ID: 2000195-08 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.40	4.143e3	2.995e3	1.913e2	1.796e2	1.06	YES	0.000e0	0.00000	0.065584	0.0954
2	Total Tetra-Furans	19.88	1.696e3	4.152e3	1.268e2	2.283e2	0.56	YES	0.000e0	0.00000	0.060129	0.0954
3	Total Tetra-Furans	20.50	1.891e4	2.693e4	1.727e3	2.291e3	0.75	NO	4.018e3	0.82883	0.82883	0.0954
4	Total Tetra-Furans	21.02	2.132e3	3.049e3	2.323e2	3.199e2	0.73	NO	5.522e2	0.11391	0.11391	0.0954
5	Total Tetra-Furans	21.36	8.757e3	1.005e4	8.007e2	1.040e3	0.77	NO	1.841e3	0.37977	0.37977	0.0954
6	Total Tetra-Furans	21.81	4.508e3	7.397e3	3.531e2	3.854e2	0.92	YES	0.000e0	0.00000	0.14073	0.0954
7	Total Tetra-Furans	22.97	5.124e3	7.137e3	3.505e2	4.112e2	0.85	NO	7.618e2	0.15714	0.15714	0.0954
8	Total Tetra-Furans	23.12	4.090e3	5.231e3	5.139e2	5.151e2	1.00	YES	0.000e0	0.00000	0.18807	0.0954
9	Total Tetra-Furans	23.68	1.896e4	2.622e4	1.992e3	2.559e3	0.78	NO	4.550e3	0.93866	0.93866	0.0954
10	2,3,7,8-TCDF	24.75	2.701e4	3.184e4	2.427e3	3.070e3	0.79	NO	5.497e3	1.1340	1.1340	0.0954
11	Total Tetra-Furans	25.20	3.403e3	2.878e3	2.588e2	2.097e2	1.23	YES	0.000e0	0.00000	0.076558	0.0954
12	Total Tetra-Furans	26.96	4.415e3	4.760e3	3.006e2	3.474e2	0.87	NO	6.480e2	0.13367	0.13367	0.0954

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	2.226e4	1.519e4	1.456e3	9.853e2	1.48	NO	2.441e3	0.61926	0.61926	0.0592

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.52	3.889e3	1.864e3	2.034e2	1.012e2	2.01	YES	0.000e0	0.00000	0.065446	0.0679
2	Total Penta-Furans	28.67	3.677e4	1.884e4	2.411e3	1.519e3	1.59	NO	3.930e3	0.99711	0.99711	0.0679
3	Total Penta-Furans	29.28	6.605e3	5.132e3	4.330e2	3.144e2	1.38	NO	7.474e2	0.18961	0.18961	0.0679
4	Total Penta-Furans	29.51	8.728e3	5.578e3	3.887e2	2.595e2	1.50	NO	6.483e2	0.16446	0.16446	0.0679
5	1,2,3,7,8-PeCDF	29.71	6.650e4	3.610e4	3.960e3	2.358e3	1.68	NO	6.318e3	1.5479	1.5479	0.0688
6	Total Penta-Furans	29.98	2.186e4	2.220e4	1.457e3	1.091e3	1.34	NO	2.548e3	0.64649	0.64649	0.0679
7	2,3,4,7,8-PeCDF	30.74	3.130e4	1.973e4	1.476e3	1.022e3	1.44	NO	2.499e3	0.62838	0.62838	0.0639
8	Total Penta-Furans	30.76	2.995e4	1.899e4	6.974e2	4.651e2	1.50	NO	1.163e3	0.29492	0.29492	0.0679
9	Total Penta-Furans	31.69	3.281e3	1.540e3	1.535e2	7.504e1	2.05	YES	0.000e0	0.00000	0.048543	0.0679

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-7.qld

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Printed: Thursday, March 26, 2020 11:36:46 AM Pacific Daylight Time

Name: 200319R2_7, Date: 20-Mar-2020, Time: 09:56:00, ID: 2000195-08 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	• 32.42	7.666e3	6.421e3	4.368e2	3.758e2	1.16	NO	8.126e2	0.23649	0.23649	0.0546
2	Total Hexa-Furans	32.58	2.491e4	2.456e4	1.486e3	1.199e3	1.24	NO	2.685e3	0.78155	0.78155	0.0546
3	Total Hexa-Furans	33.16	2.491e4	1.686e4	1.400e3	1.002e3	1.40	NO	2.402e3	0.69909	0.69909	0.0546
4	Total Hexa-Furans	33.52	3.357e3	2.585e3	9.667e1	7.998e1	1.21	NO	1.767e2	0.051413	0.051413	0.0546
5	1,2,3,4,7,8-HxCDF	33.62	6.984e4	5.632e4	3.987e3	3.014e3	1.32	NO	7.001e3	2.1426	2.1426	0.0523
6	1,2,3,6,7,8-HxCDF	33.74	2.221e4	1.644e4	1.313e3	9.874e2	1.33	NO	2.300e3	0.66073	0.66073	0.0521
7	2,3,4,6,7,8-HxCDF	34.30	9.159e3	7.682e3	4.435e2	4.315e2	1.03	YES	8.750e2	0.00000	0.22632	0.0530
8	1,2,3,7,8,9-HxCDF	35.19	8.157e3	5.872e3	3.176e2	2.362e2	1.34	NO	5.538e2	0.19549	0.19549	0.0741
9	Total Hexa-Furans	35.20	7.612e3	5.989e3	2.755e2	2.134e2	1.29	NO	4.889e2	0.14230	0.14230	0.0546

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	• 36.85	3.646e4	3.722e4	2.665e3	2.831e3	0.94	NO	5.496e3	2.1053	2.1053	0.128
2	Total Hepta-Furans	37.44	4.319e4	4.489e4	3.326e3	3.360e3	0.99	NO	6.686e3	3.0276	3.0276	0.148
3	1,2,3,4,7,8,9-HpCDF	38.91	5.395e3	7.757e3	4.071e2	4.545e2	0.90	NO	8.615e2	0.41318	0.41318	0.152

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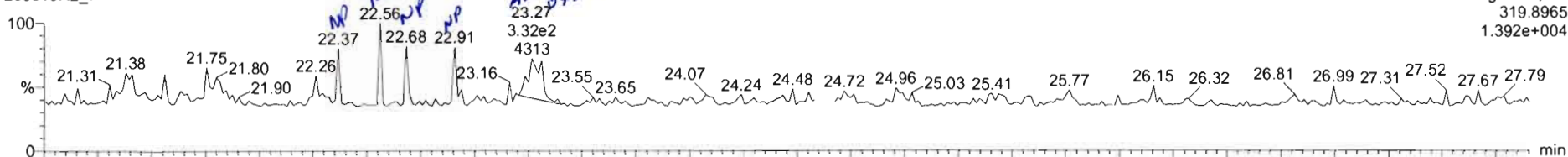
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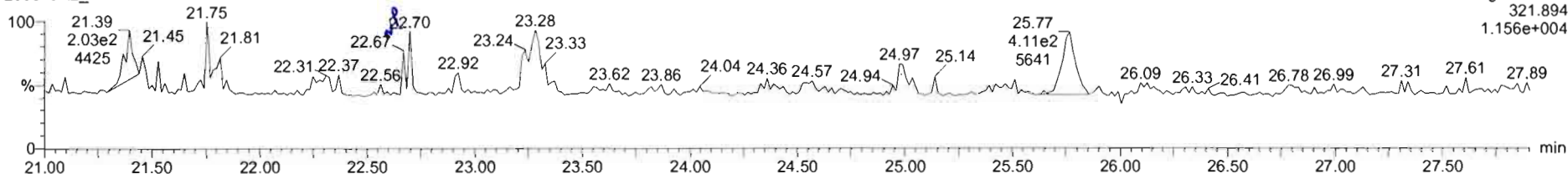
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2,3,7,8-TCDD

200319R2_7

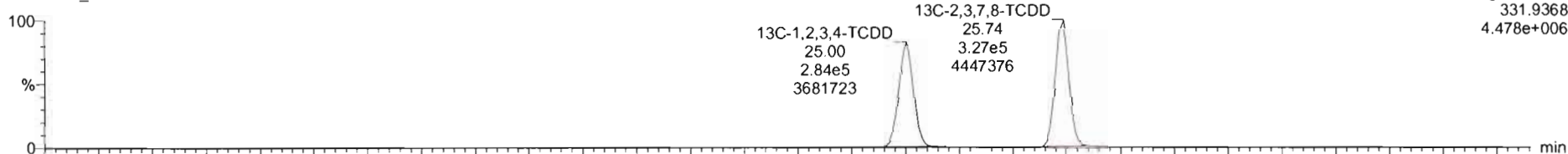


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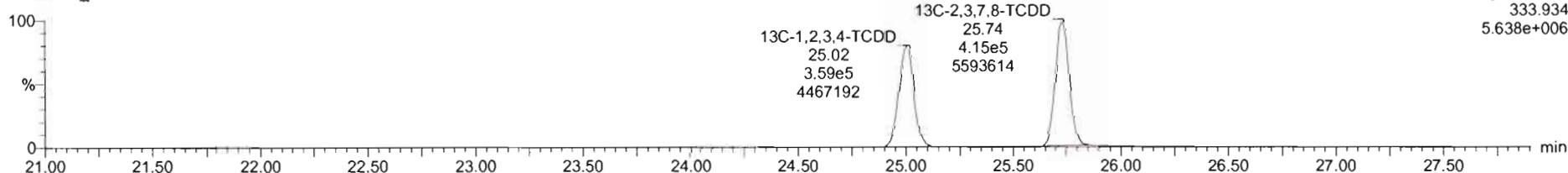


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200319R2_7



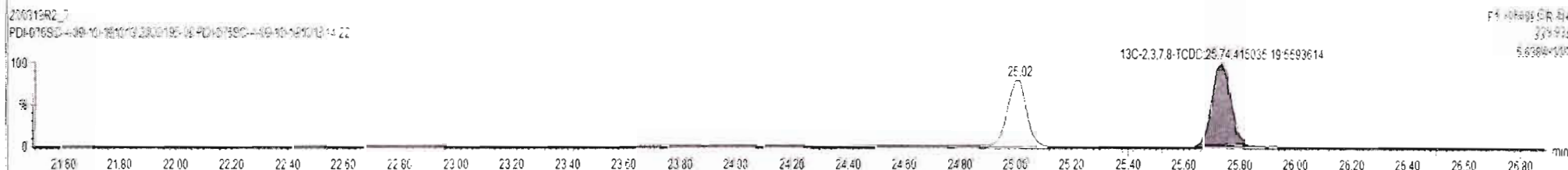
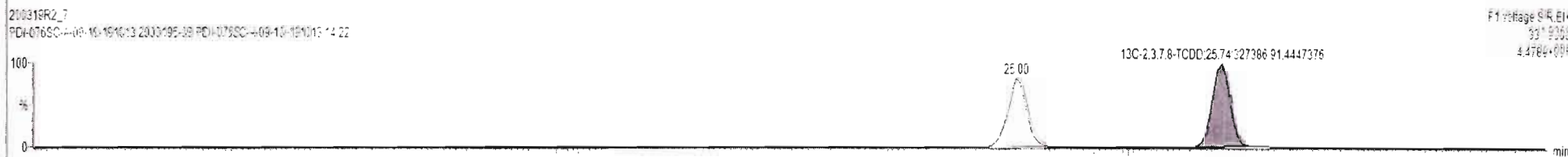
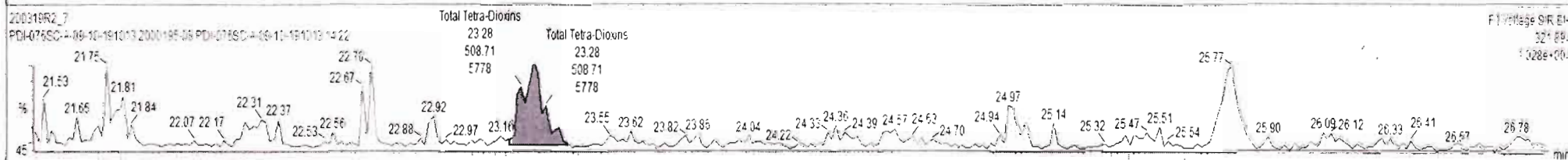
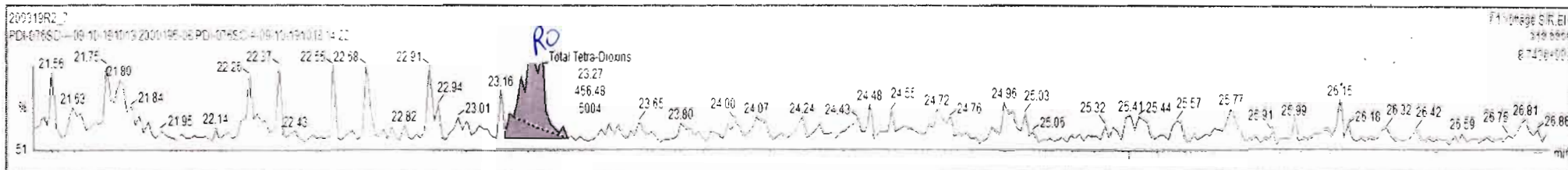
200319R2_7



200319R2_7 - 2000195-08 PDI-076SC-A-09-10-191013 14.22 - PDI-076SC-A-09-10-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.016			0.000		0.0505	0.246
40 Total Penta-Dioxins				0.9212	10.016			0.0597		0.121	0.477
41 Total Hexa-Dioxins				0.9844	10.016			2.75		0.0015	2.91
42 Total Hepta-Dioxins				1.0061	10.016			15.7		0.314	15.7
43 Total Tetra-Furans				0.9154	10.016			3.39		0.0554	3.72

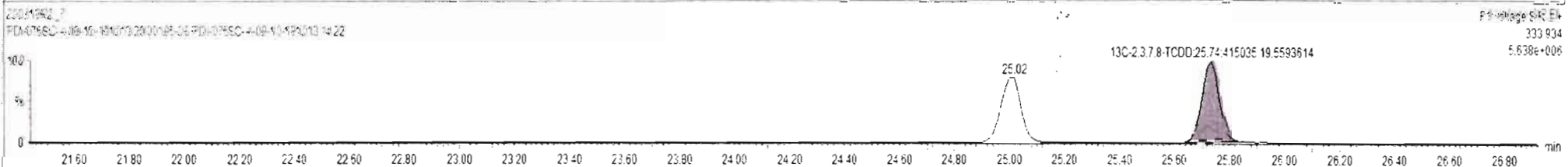
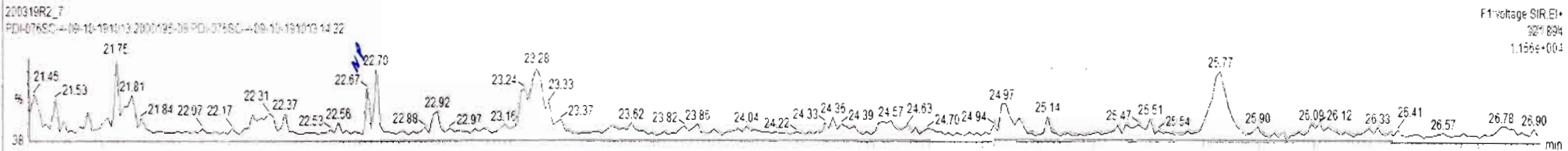
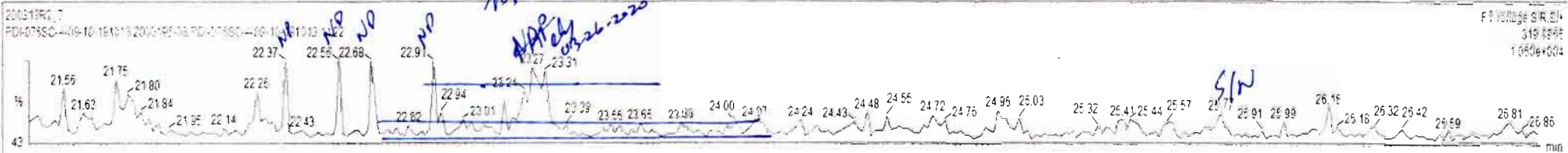
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.27	4.595e2	5.087e2	0.98	YES	0.24624	0.00000



200319R2_7 - 2000195-08 PDI-076SC-A-09-10-191013 14 22 - PDI-076SC-A-09-10-191013

Name	Resp	RA	nY	RF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.5835	10.016					0.130	
2 1,2,3,7,8-PeCDD			NO	0.5212	10.016					0.121	
3 1,2,3,4,7,8-HxCDD			NO	1.1225	10.016					0.0755	
4 1,2,3,6,7,8-HxCDD	5.52e2	1.17	NO	0.5844	10.016	34.58	1.001	0.215		0.0762	0.215
5 1,2,3,7,8-HxCDD			NO	0.9674	10.016					0.0032	

Name	RT	m1 Resp	m2 Resp	RA	nY	EMPC	Conc.
1							



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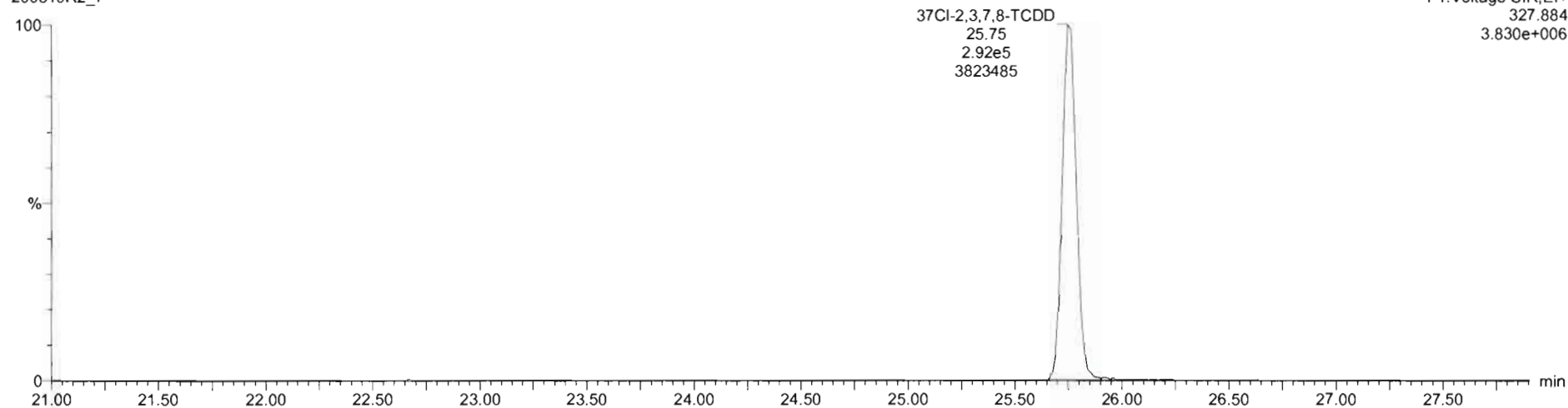
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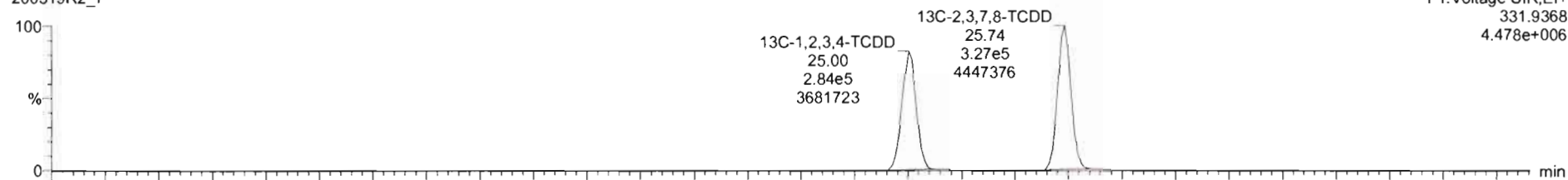
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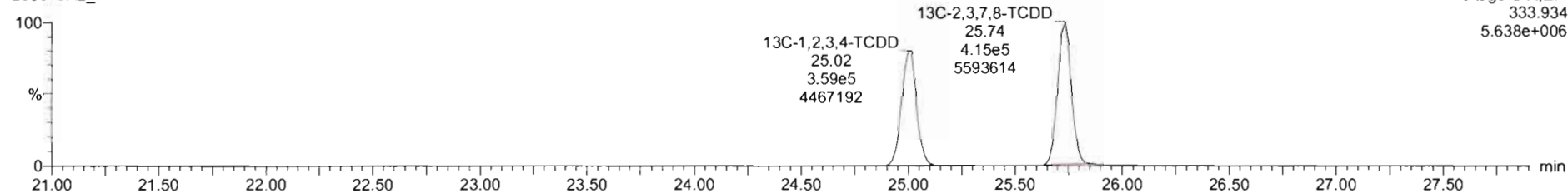


13C-1,2,3,4-TCDD

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200319R2_7



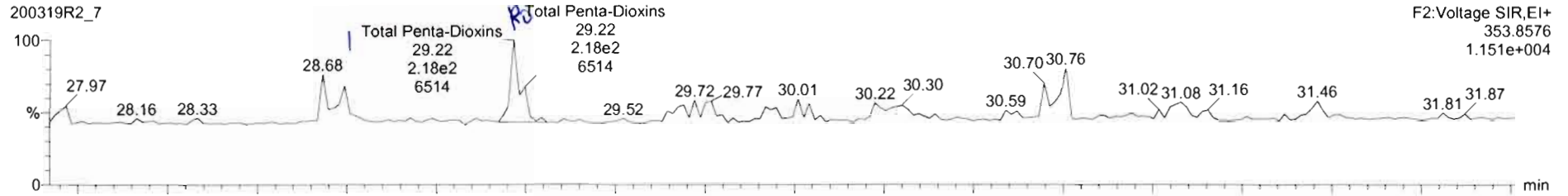
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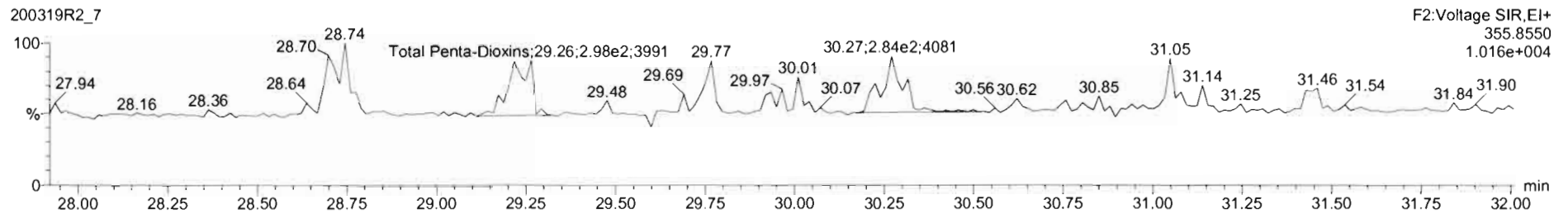
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1,2,3,7,8-PeCDD

200319R2_7

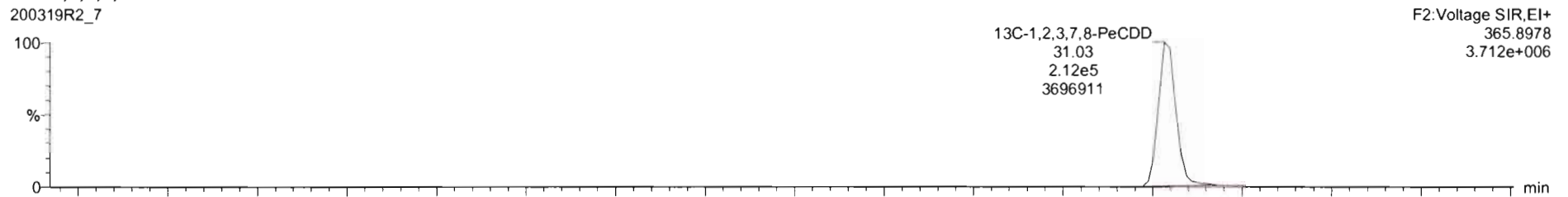


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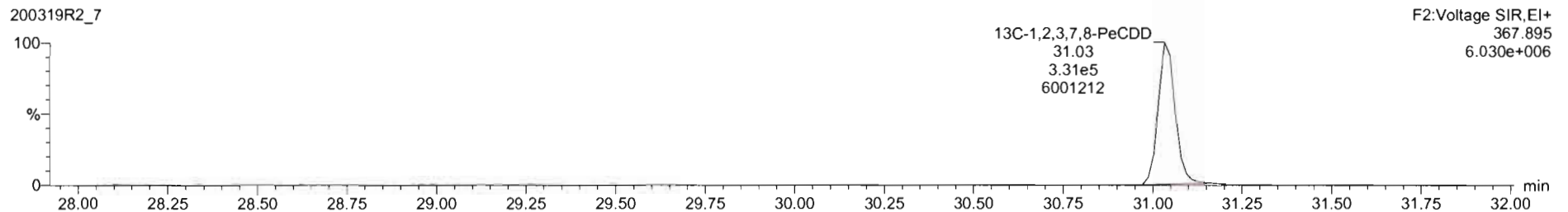


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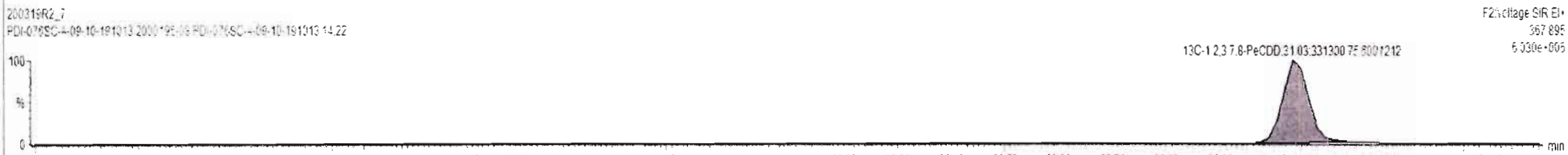
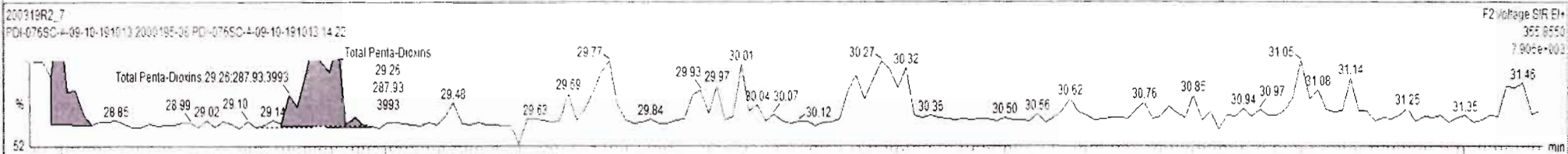
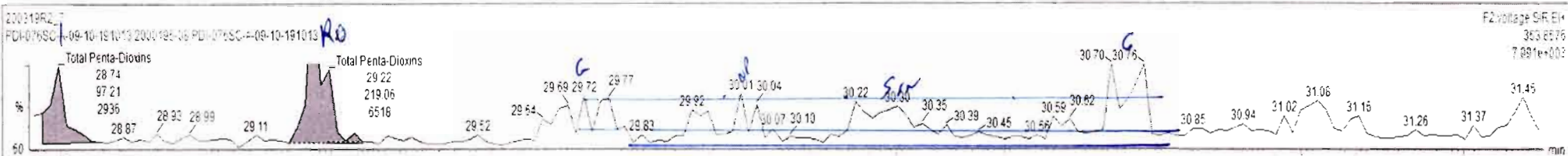
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200319R2_7 - 2000195-08 PDI-076SC-A-09-10-191013 14 22 - PDI-076SC-A-09-10-191013

Name	Reso	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9825	10.016			0.000		0.0595	0.246
40 Total Penta-Dioxins				0.9212	10.016			0.0981		0.121	0.285
41 Total Hexa-Dioxins				0.9844	10.016			2.75		0.0815	2.91
42 Total Hepta-Dioxins				1.0351	10.016			15.7		0.214	15.7
43 Total Tetra-Furans				0.9154	10.016			3.25		0.0354	3.76

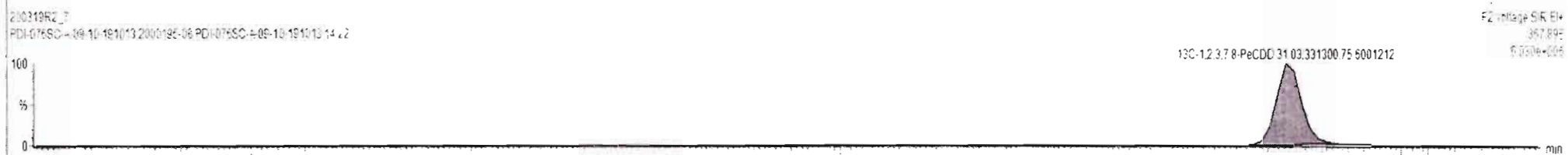
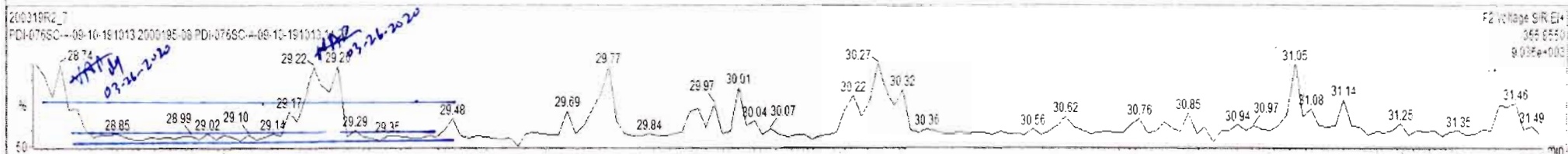
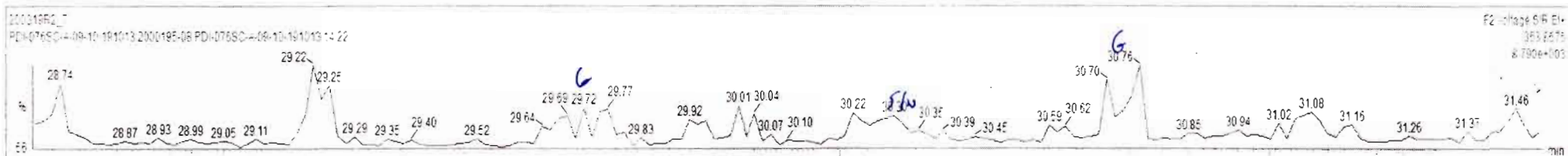
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.74	5.721e1	1.485e2	0.85	NO	0.098098	0.098098
2 Total Penta-Dioxins	29.22	2.191e2	2.879e2	0.76	YES	0.15738	0.03000



200319R2_7 - 2000195-08 PDI-076SC-A-09-10-191013 14.22 - PDI-076SC-A-09-10-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	EL	EMPC
1 2.3.7.8-TCDD			NO	0.9835	10.016					0.130	
2 1.2.3.7.8-PeCDD			NO	0.9212	10.016					0.121	
3 1.2.3.4.7.8-HxCDD			NO	1.1325	10.016					0.0759	
4 1.2.3.6.7.8-HxCDD	5.52e2	1.17	NO	0.5844	10.016	34.58	1.001	0.218		0.0762	0.218
5 1.2.3.7.8.9-HxCDD			NO	0.9874	10.016					0.0830	

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



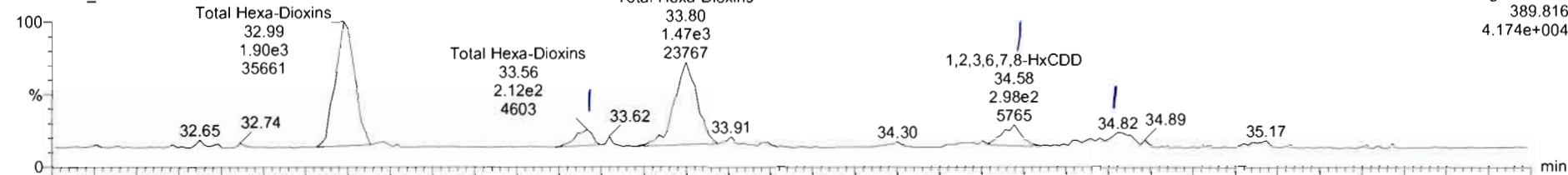
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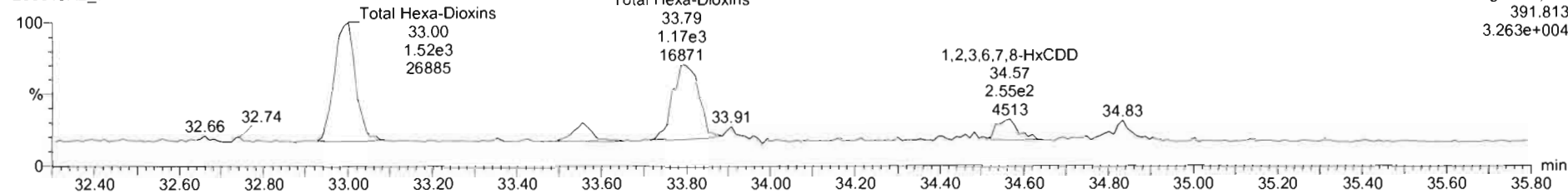
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1,2,3,4,7,8-HxCDD

200319R2_7

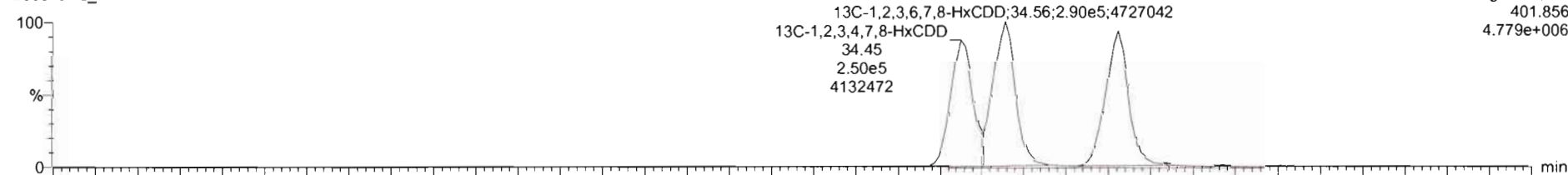


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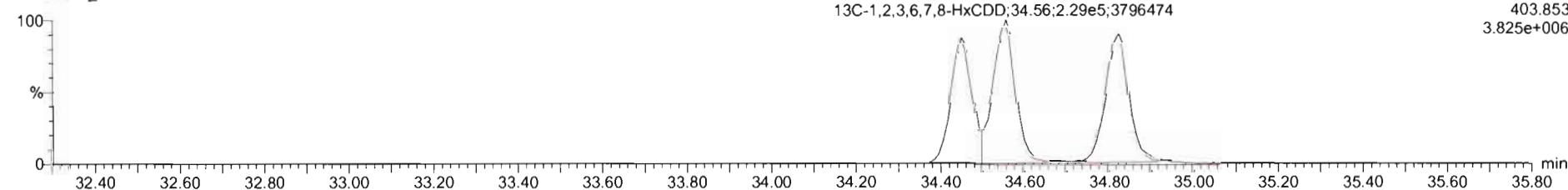


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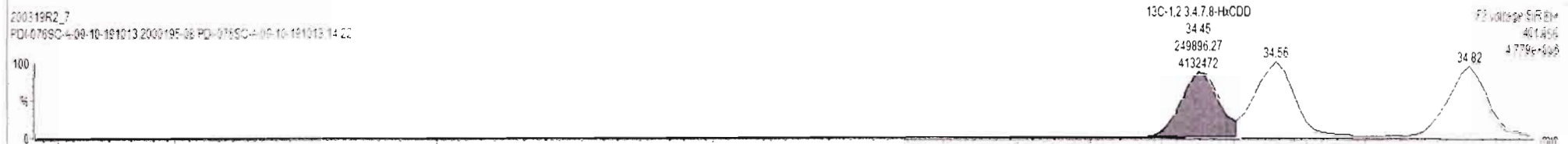
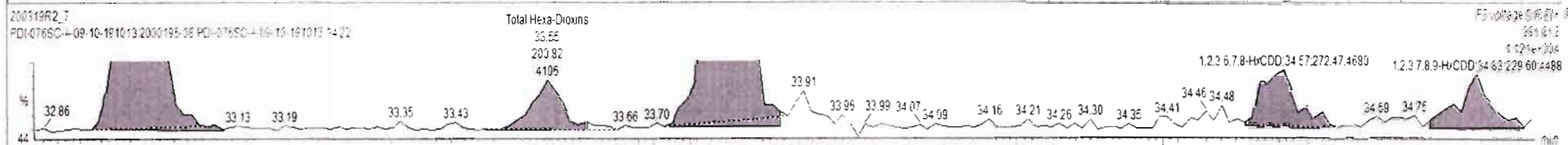
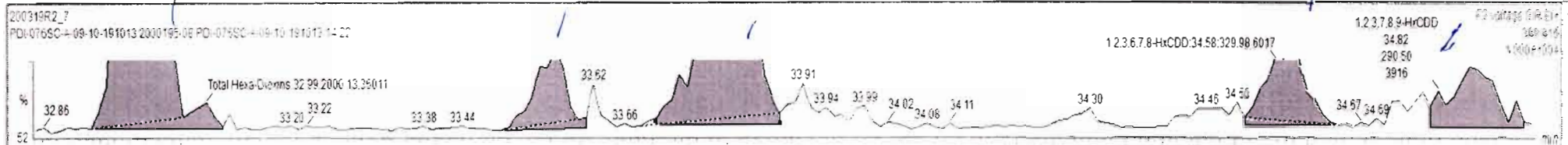


200319R2_7



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.016			0.000		0.0505	0.246
40 Total Penta-Dioxins				0.5212	10.016			0.0591		0.121	0.281
41 Total Hexa-Dioxins				0.9844	10.016			3.28		0.0815	3.28
42 Total Hepta-Dioxins				1.0051	10.016			15.7		0.214	15.7
43 Total Tetra-Furans				0.9154	10.016			2.39		0.0554	2.76

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	32.99	2.000e2	1.952e3	1.26	NO	1.4847	1.4847
2 Total Hexa-Dioxins	33.56	2.513e2	2.008e2	1.25	NO	0.13896	0.13896
3 Total Hexa-Dioxins	32.80	1.526e2	1.236e2	1.24	NO	1.1542	1.1542
4 1,2,3,6,7,8-HxCDD	34.58	2.300e2	2.725e2	1.21	NO	0.23545	0.23545
5 1,2,3,7,8,9-HxCDD	34.82	2.955e2	2.296e2	1.27	NO	0.21868	0.21868



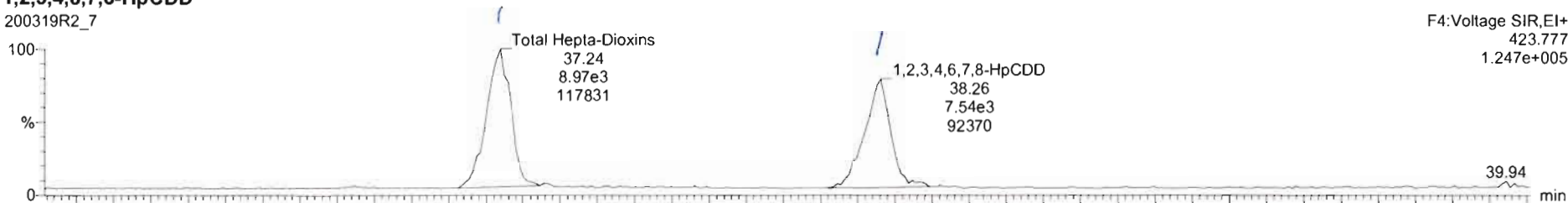
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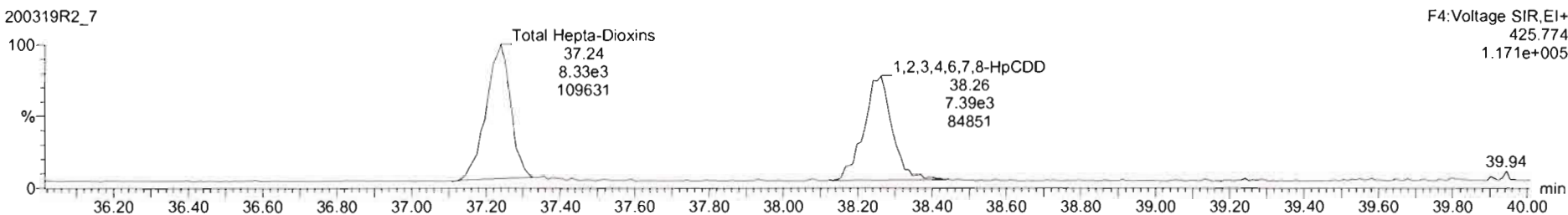
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1,2,3,4,6,7,8-HpCDD

200319R2_7

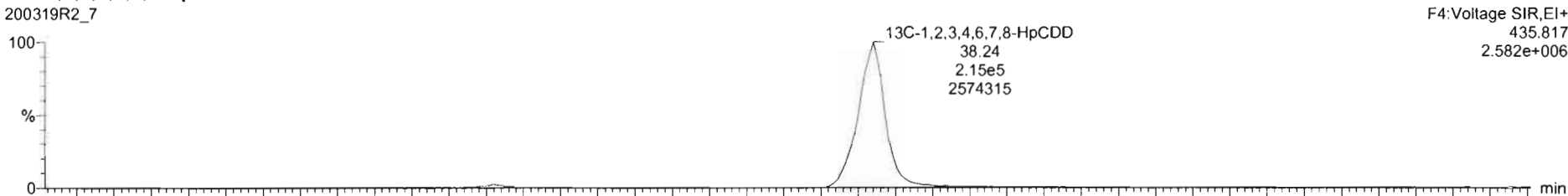


200319R2_7

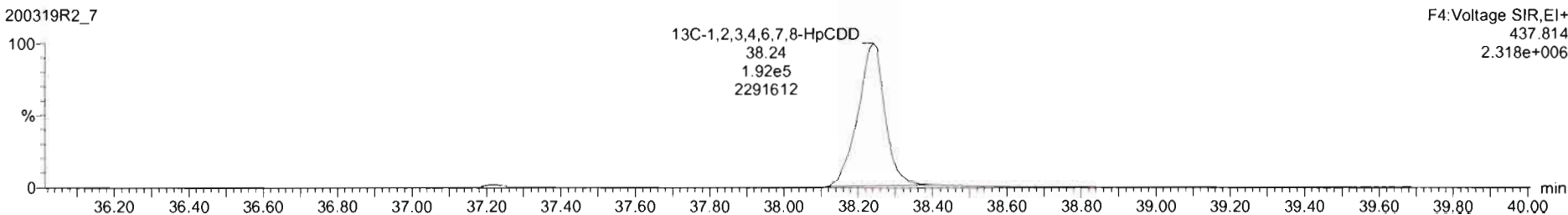


13C-1,2,3,4,6,7,8-HpCDD

200319R2_7



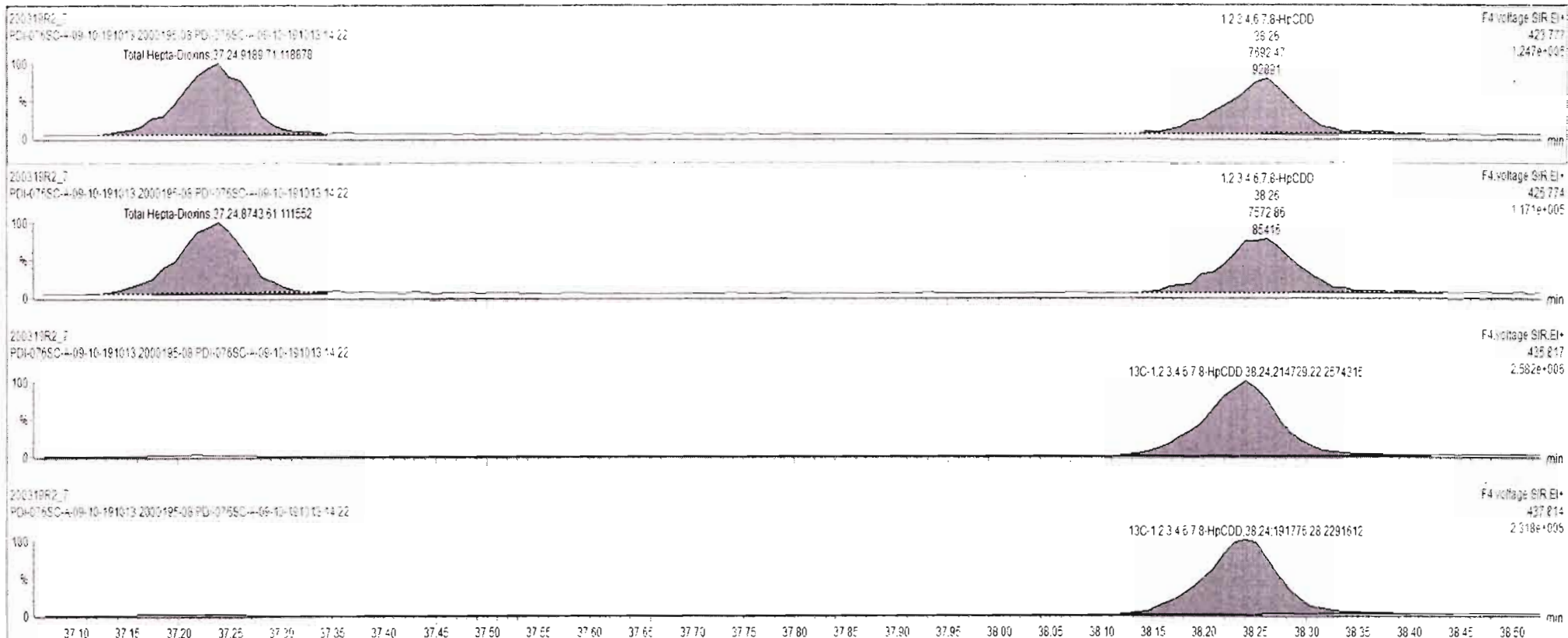
200319R2_7



200319R2_7 - 2000195-08 PDI-076SC-A-09-10-191013 14.22 - PDI-076SC-A-09-10-191013

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5835	10.016			0.000	0.0595	0.245	
40 Total Penta-Dioxins				0.6212	10.016			0.0581	0.121	0.285	
41 Total Hexa-Dioxins				0.6844	10.016			3.28	0.0815	1.28	
42 Total Hepta-Dioxins				1.0361	10.016			16.2	0.314	16.2	
43 Total Tetra-Furans				0.5154	10.016			3.39	0.0954	3.75	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.24	9.150e2	6.744e2	1.05	NO	8.7558	8.7558
2 1,2,3,4,6,7,8-HpCDD	38.26	7.692e2	7.572e2	1.02	NO	7.4532	7.4532

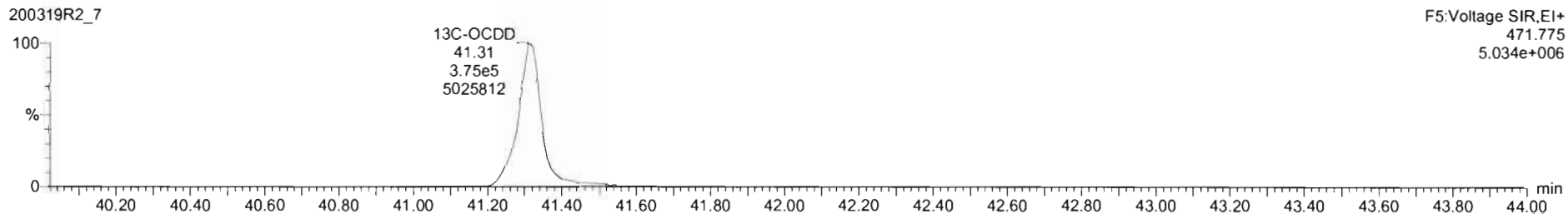
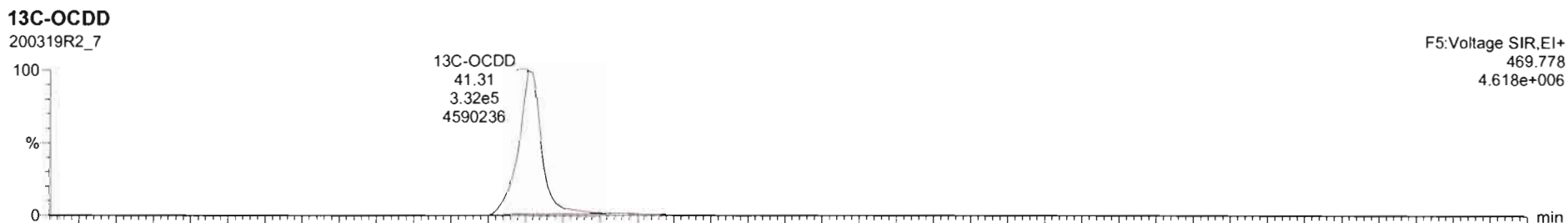
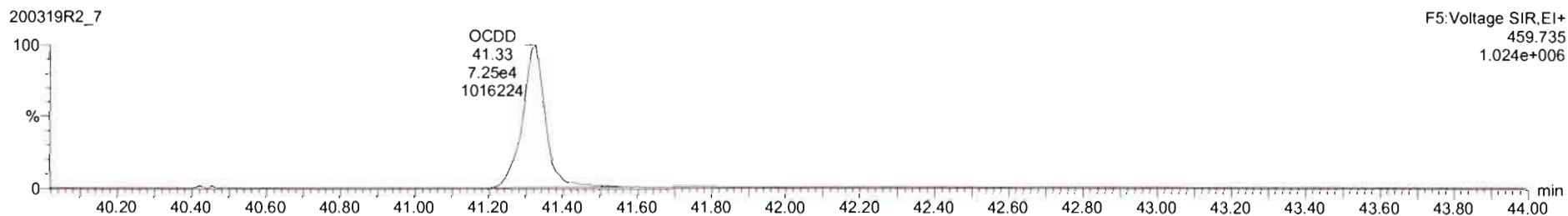
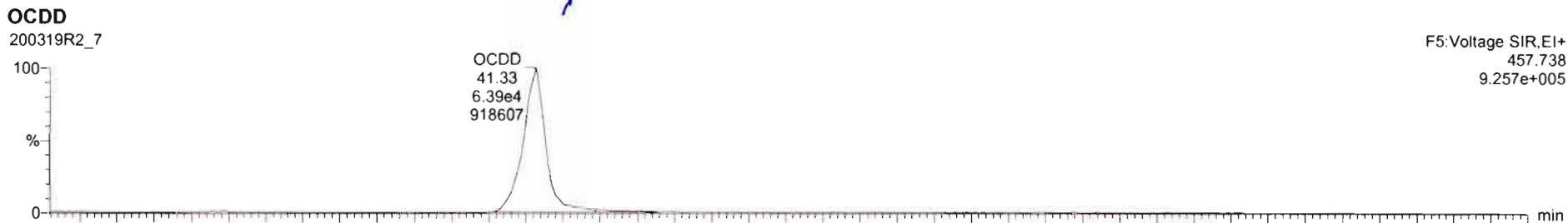


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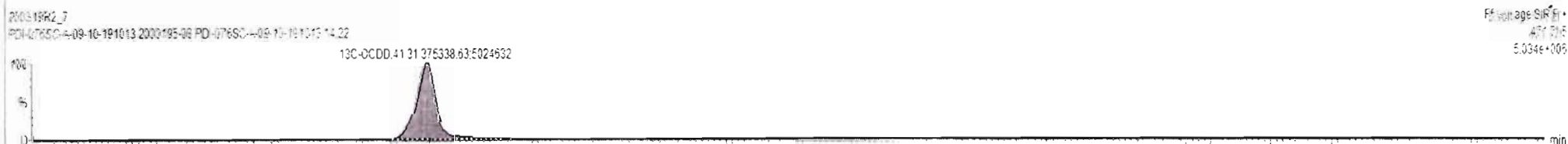
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200319R2_7 - 2000195-06 PDI-076SC-A-09-10-191013 14.22 - PDI-076SC-A-09-10-191013

Name	Resp	RA	n/y	RF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	1.38e5	0.88	NO	1.0515	10.016	41.33	1.001	73.6		0.403	73.6
8 2,3,7,8-TCDF	5.40e3	0.78	NO	0.9154	10.016	24.75	1.001	1.11		0.0554	1.11
9 1,2,3,7,8-PeCDF	6.02e3	1.63	NO	0.9594	10.016	29.71	1.001	1.51		0.0691	1.51
10 2,3,4,7,8-PeCDF	3.71e3	1.50	NO	1.0035	10.016	30.74	1.001	0.533		0.0639	0.533
11 1,2,3,4,7,8-HxCDF	6.53e3	1.30	NO	1.0381	10.016	33.82	1.000	2.09		0.0523	2.09

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

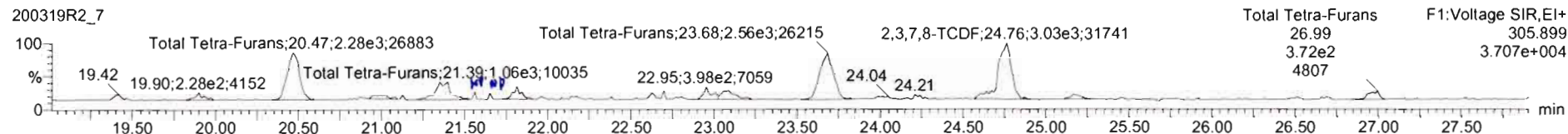
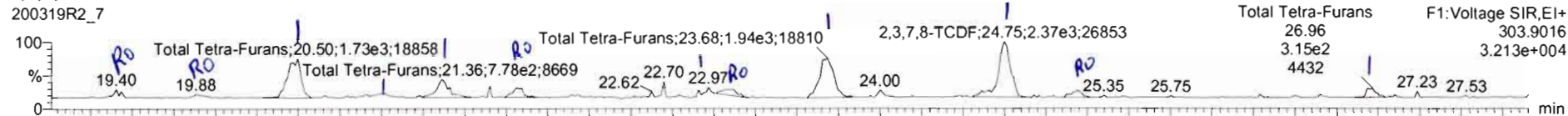


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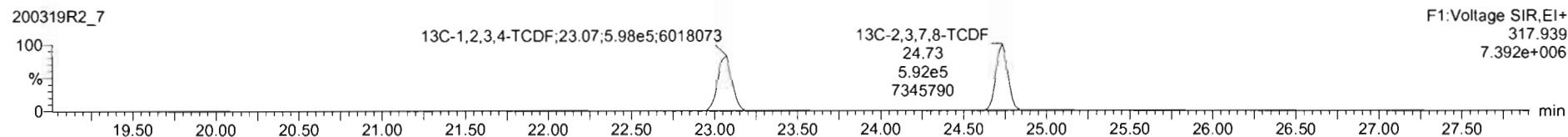
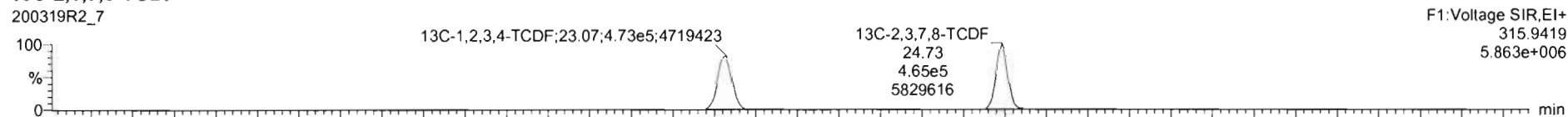
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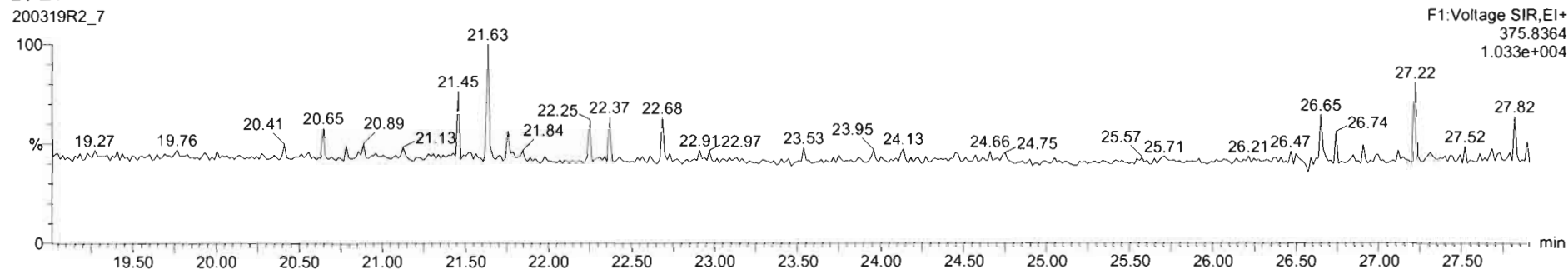
2,3,7,8-TCDF



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

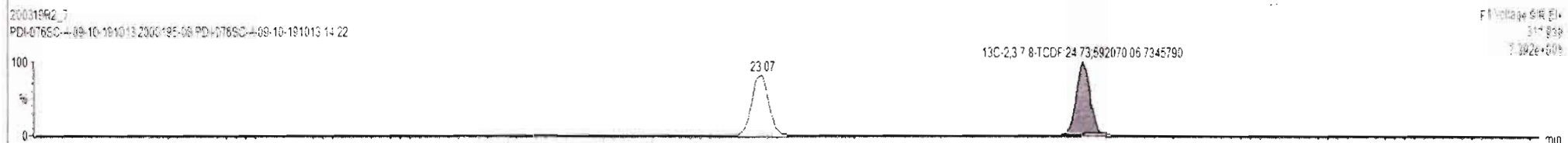
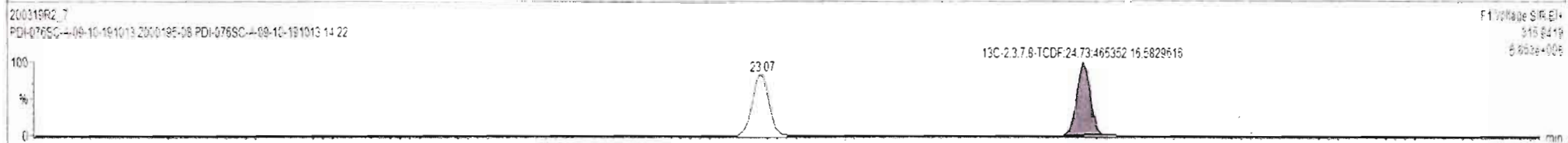
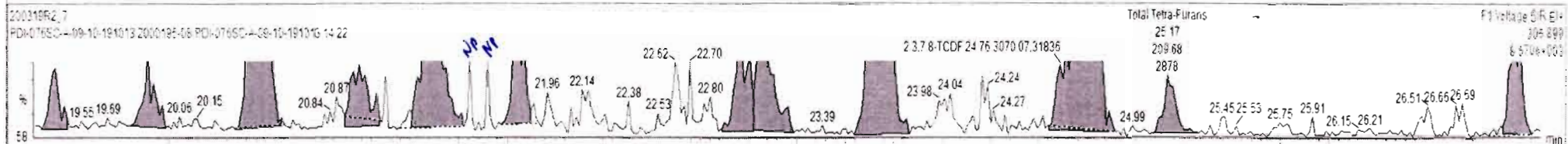
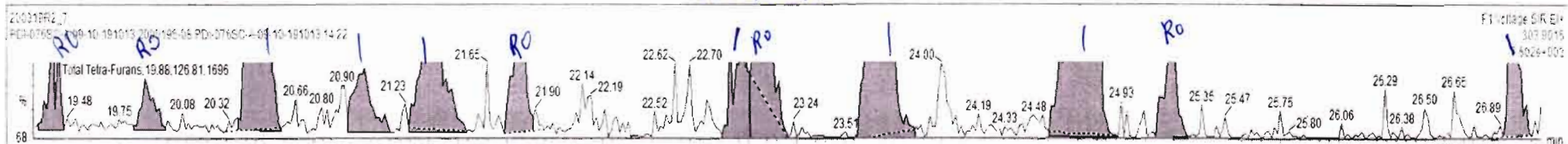


DPE1



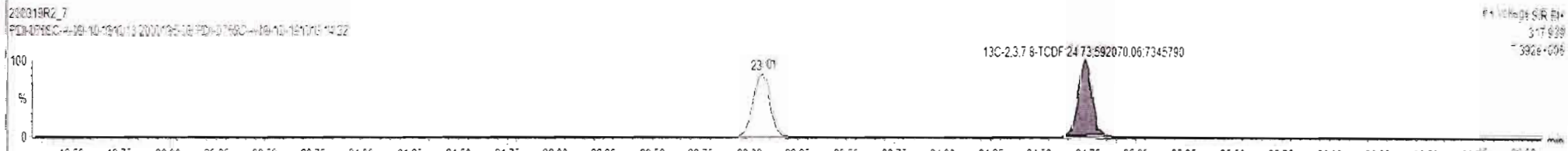
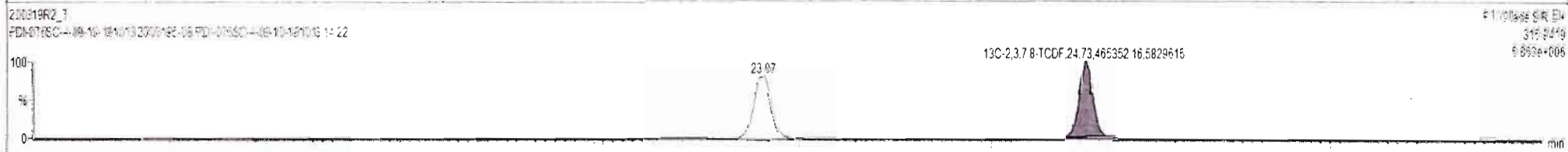
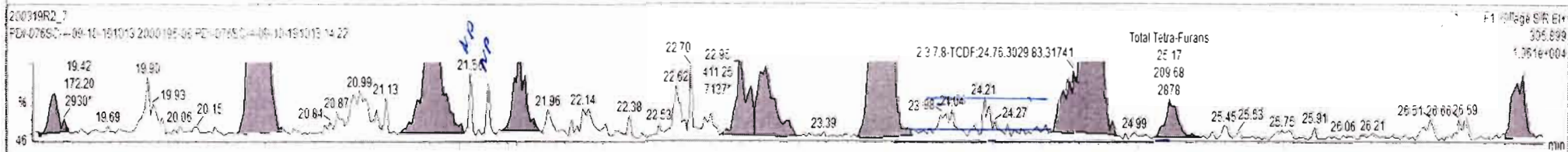
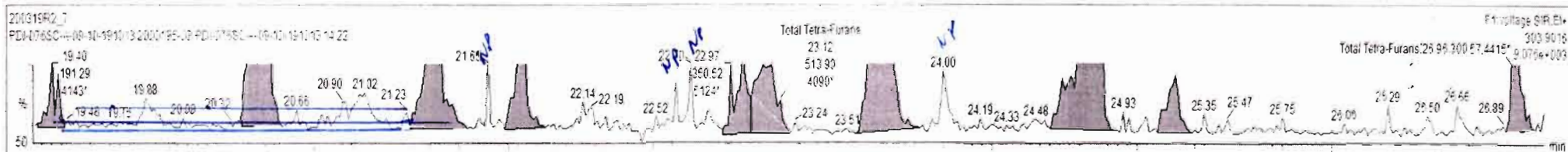
Name	Resp	RA	nly	RGF	wlvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.016			3.69		0.0954	4.22
44 1st Func. Penta-Furans				0.9594	10.016			0.625		0.0593	0.625
45 Total Penta-Furans				0.9594	10.016			3.57		0.0680	4.13
46 Total Hexa-Furans				1.0520	10.016			4.65		0.0546	4.30
47 Total Hepta-Furans				1.0482	10.016			5.03		0.146	5.33

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	19.40	1.913e2	1.796e2	1.06	YES	0.065554	0.00000
2 Total Tetra-Furans	19.86	1.269e2	2.283e2	0.56	YES	0.000125	0.00000
3 Total Tetra-Furans	20.50	1.727e3	2.251e3	0.75	NO	0.82382	0.82383
4 Total Tetra-Furans	21.32	2.223e2	3.195e2	0.73	NO	0.11251	0.11251
5 Total Tetra-Furans	21.36	8.007e2	1.640e3	0.77	NO	0.37977	0.37977
6 Total Tetra-Furans	21.81	3.531e2	3.854e2	0.92	YES	0.14973	0.00000
7 Total Tetra-Furans	22.37	3.505e2	4.112e2	0.85	NO	0.15714	0.15714
8 Total Tetra-Furans	23.12	5.139e2	5.151e2	1.00	YES	0.16807	0.00000
9 Total Tetra-Furans	23.68	1.992e3	2.659e3	0.76	NO	0.83866	0.93866
10 2,3,7,8-TCDF	24.75	2.427e3	3.070e3	0.79	NO	1.1340	1.1340
11 Total Tetra-Furans	25.20	2.588e2	2.697e2	1.23	YES	0.076558	0.00000
12 Total Tetra-Furans	26.96	3.006e2	3.474e2	0.87	NO	0.12367	0.12367



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.016			3.38		0.0954	3.76
44 1st Func. Penta-Furans				0.9594	10.016			0.626		0.0593	0.626
45 Total Penta-Furans				0.9594	10.016			3.57		0.0620	4.13
46 Total Hexa-Furans				1.0620	10.016			4.69		0.0546	4.90
47 Total Hepta-Furans				1.0463	10.016			5.03		0.146	5.33

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.50	1.732e3	2.264e3	0.76	NO	0.82803	0.82803
2 Total Tetra-Furans	21.36	7.775e2	1.064e3	0.73	NO	0.37968	0.37968
3 Total Tetra-Furans	21.81	3.705e2	4.126e2	0.90	YES	0.15066	0.00000
4 Total Tetra-Furans	23.12	2.975e2	5.151e2	0.58	YES	0.14056	0.00000
5 Total Tetra-Furans	23.86	1.909e3	2.659e2	0.76	NO	0.92725	0.92725
6 2,3,7,8-TCDF	24.75	2.370e3	3.030e3	0.78	NO	1.1136	1.1136
7 Total Tetra-Furans	25.20	2.588e2	2.097e2	1.23	YES	0.07655	0.00000
8 Total Tetra-Furans	26.96	3.152e2	3.724e2	0.85	NO	0.14184	0.14184



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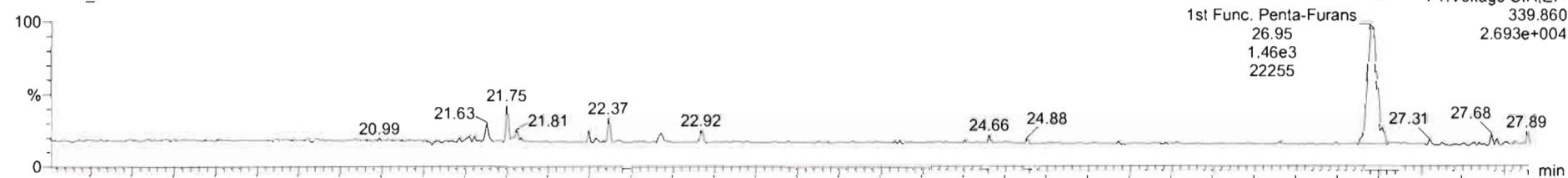
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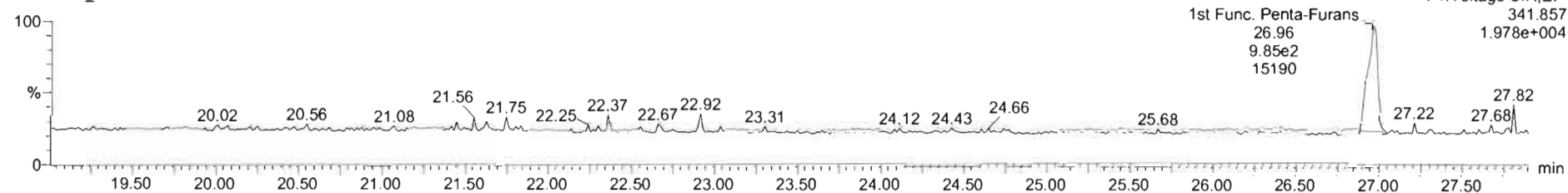
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1st Func. Penta-Furans

200319R2_7

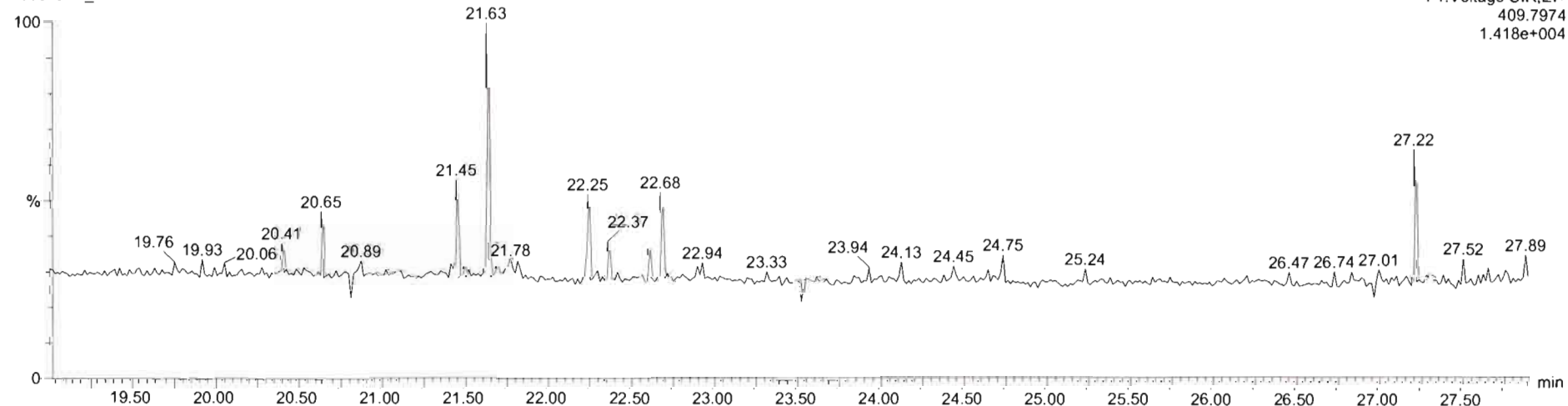


200319R2_7



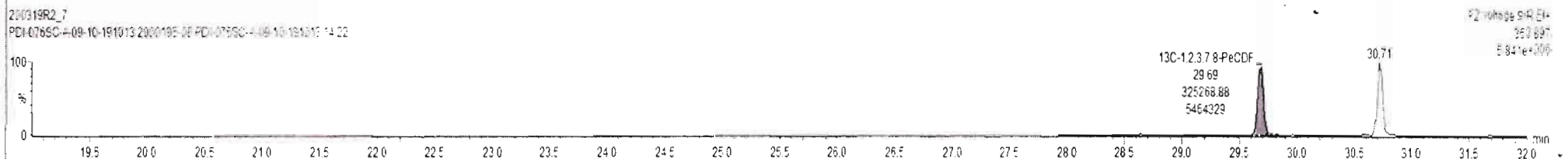
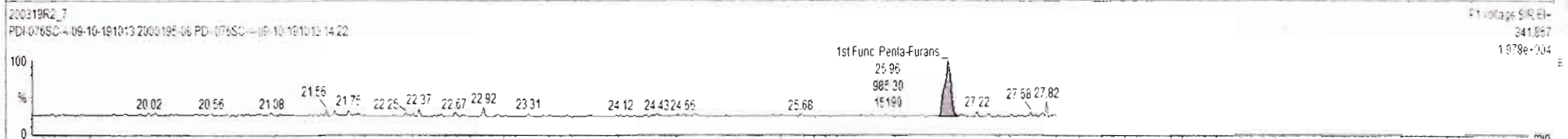
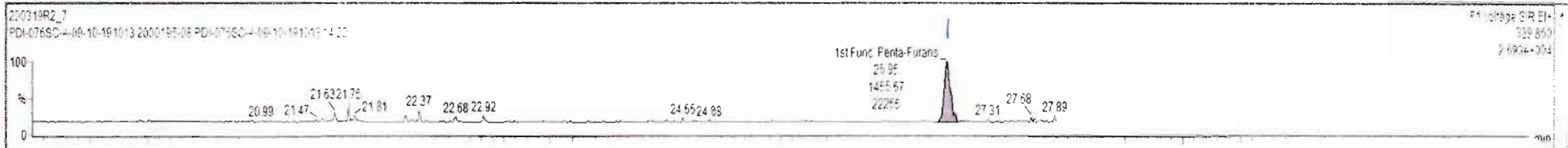
DPE6

200319R2_7



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.016			0.619		0.0592	0.619
45 Total Penta-Furans				0.9594	10.016			3.52		0.0679	4.14
46 Total Hexa-Furans				1.0920	10.016			4.69		0.0546	4.90
47 Total Hepta-Furans				1.0483	10.016			5.03		0.148	5.33
48 PFK1											

Name	RT	mt Resp	mz Resp	RA	n/y	EMPC	Conc
1 1st Func. Penta-Furans	26.95	1.455e2	5.652e2	1.48	NO	0.6192E	0.61526

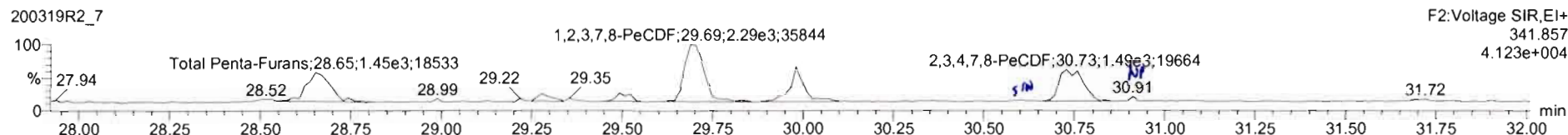
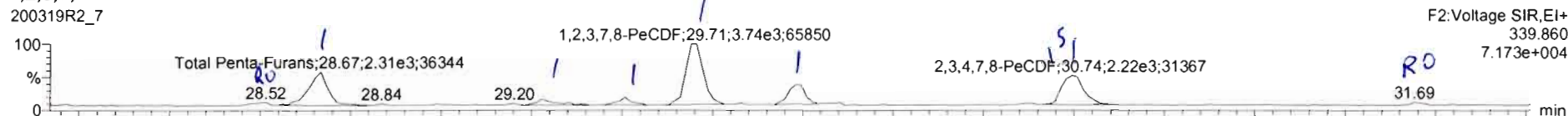


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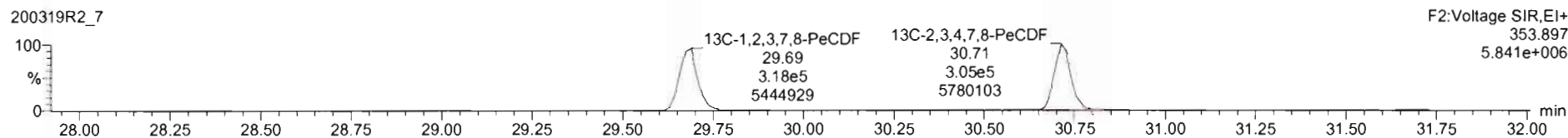
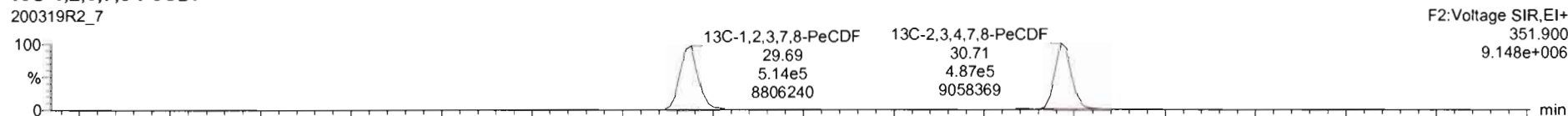
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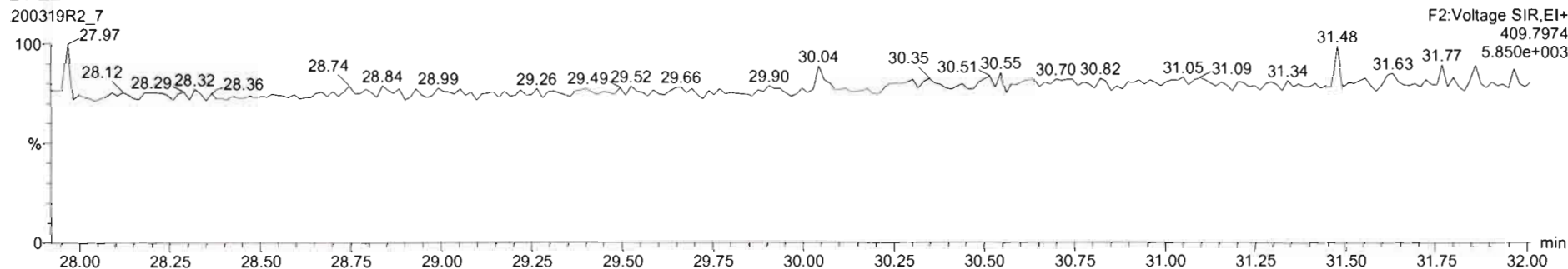
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13C-1,2,3,7,8-PeCDF

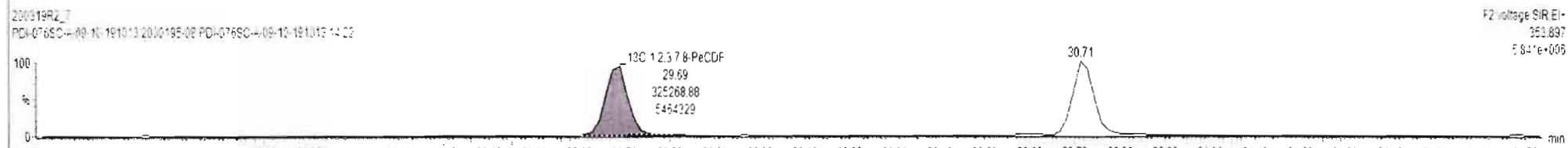
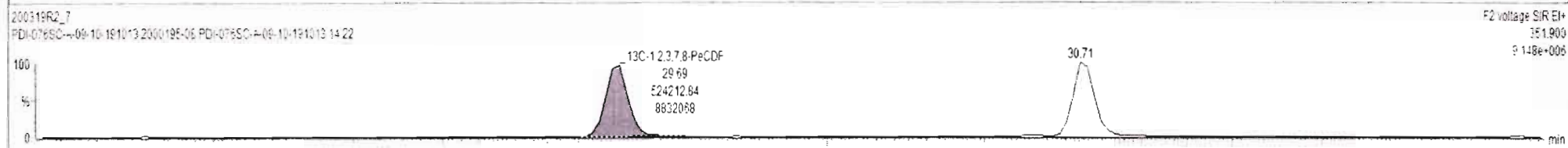
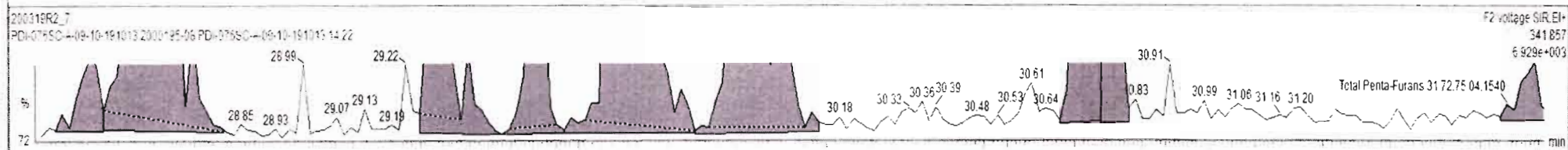
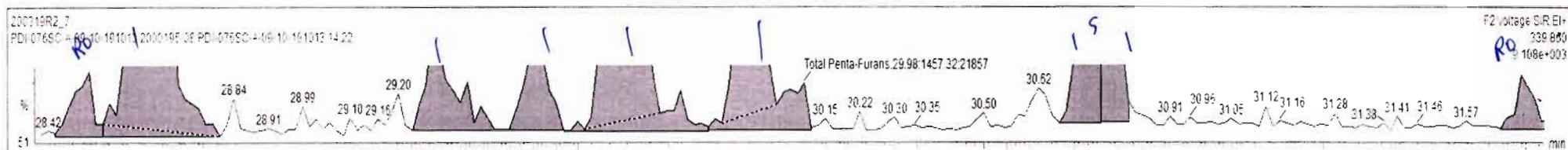


DPE2



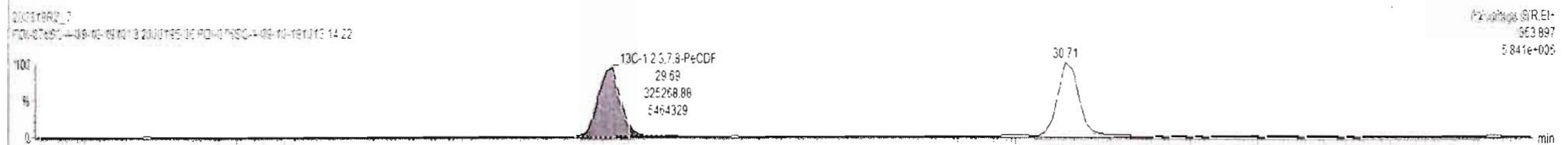
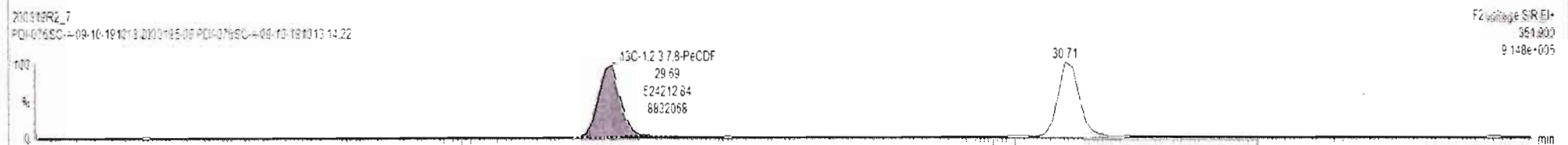
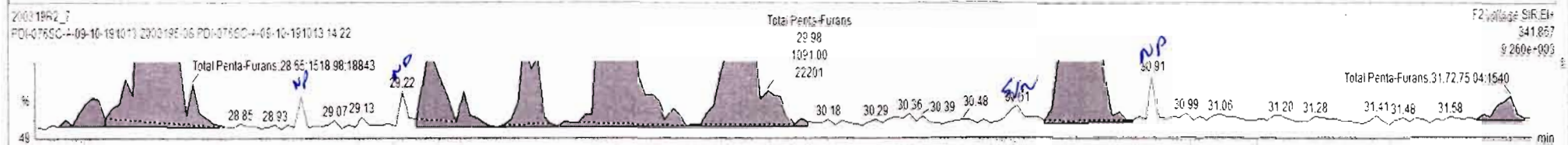
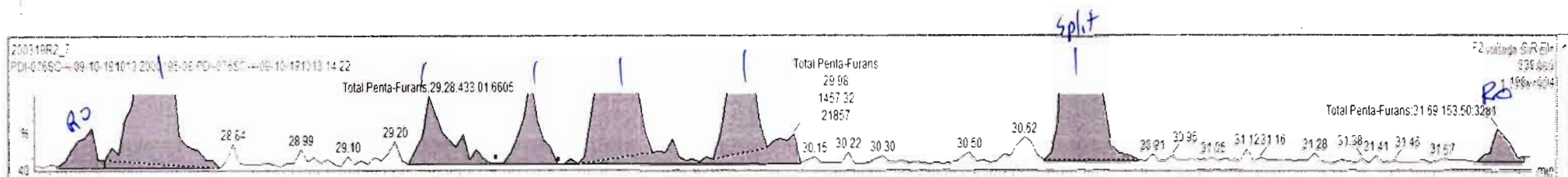
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.016			0.815	0.0552	0.815	
45 Total Penta-Furans				0.9594	10.016			4.47	0.0679	4.58	
46 Total Hexa-Furans				1.0920	10.016			4.89	0.0548	4.90	
47 Total Hepta-Furans				1.0483	10.016			5.03	0.148	5.23	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.52	2.024e2	1.012e2	2.01	YES	0.065448	0.00300
2 Total Penta-Furans	28.67	2.411e2	1.515e2	1.59	NO	0.96711	0.99711
3 Total Penta-Furans	29.26	4.330e2	3.144e2	1.38	NO	0.13961	0.13961
4 Total Penta-Furans	29.51	3.687e2	2.595e2	1.50	NO	0.18448	0.18448
5 1,2,3,7,8-PeCDF	29.71	3.900e2	2.358e2	1.66	NO	1.5479	1.5479
6 Total Penta-Furans	29.96	1.457e3	1.091e3	1.34	NO	0.64649	0.64649
7 2,3,4,7,8-PeCDF	30.74	1.475e2	1.022e2	1.44	NO	0.62838	0.62838
8 Total Penta-Furans	30.76	6.974e2	4.651e2	1.50	NO	0.29452	0.29492
9 Total Penta-Furans	31.69	1.535e2	7.504e1	2.06	YES	0.046543	0.00000



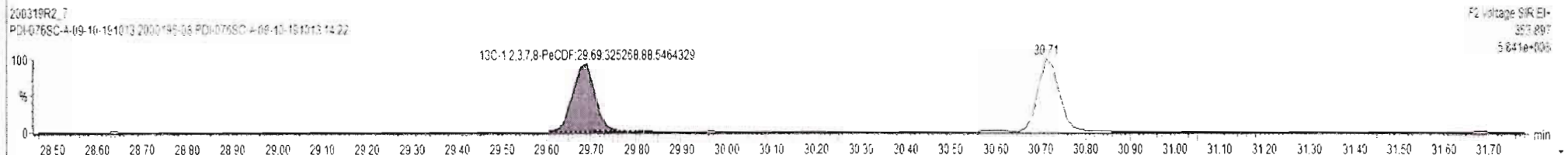
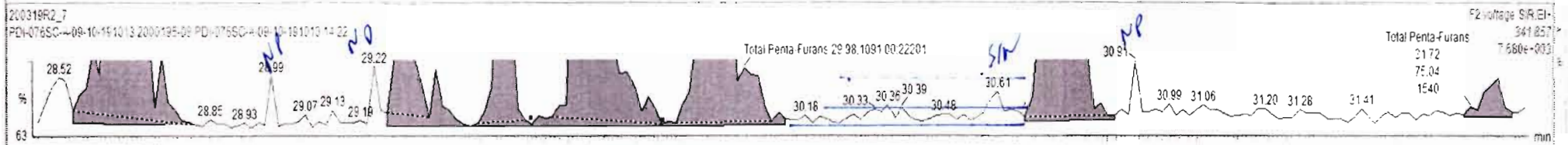
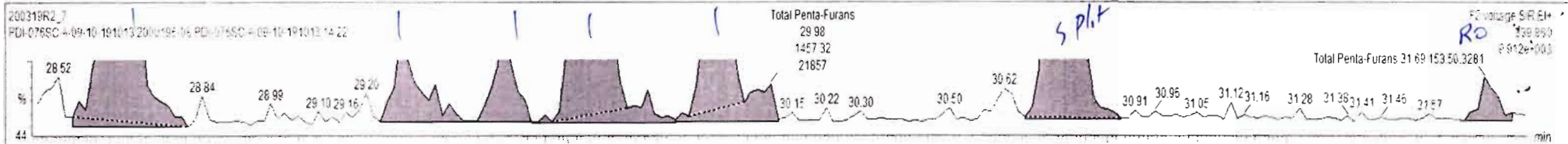
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.016			0.619		0.0592	0.619
45 Total Penta-Furans				0.9594	10.016			4.50		0.0679	4.61
46 Total Hexa-Furans				1.0920	10.016			4.69		0.0546	4.60
47 Total Hepta-Furans				1.0483	10.016			5.00		0.148	5.32
48 PK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.52	2.034e2	1.012e2	2.21	YES	0.065448	0.00000
2 Total Penta-Furans	28.67	2.411e2	1.515e2	1.59	NO	0.95711	0.95711
3 Total Penta-Furans	29.26	4.320e2	3.144e2	1.38	NO	0.13961	0.18961
4 Total Penta-Furans	29.51	3.887e2	2.595e2	1.50	NO	0.16446	0.16446
5 1,2,3,7,8-PeCDF	29.71	2.960e2	2.358e2	1.68	NO	1.5479	1.5479
6 Total Penta-Furans	29.98	1.487e2	1.091e2	1.34	NO	0.64649	0.64649
7 2,3,4,7,8-PeCDF	30.74	2.257e2	1.520e2	1.48	NO	0.94975	0.94975
8 Total Penta-Furans	31.69	1.525e2	7.504e1	2.05	YES	0.048543	0.00000



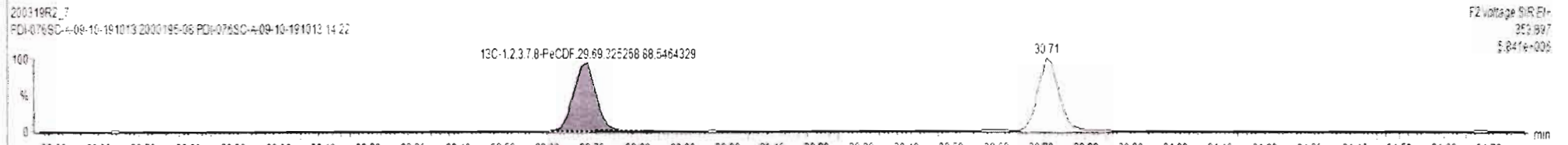
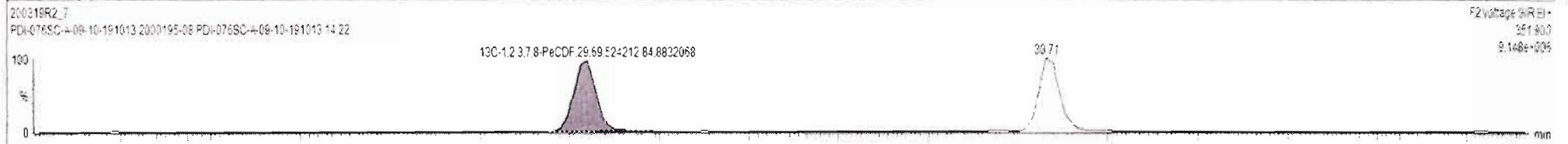
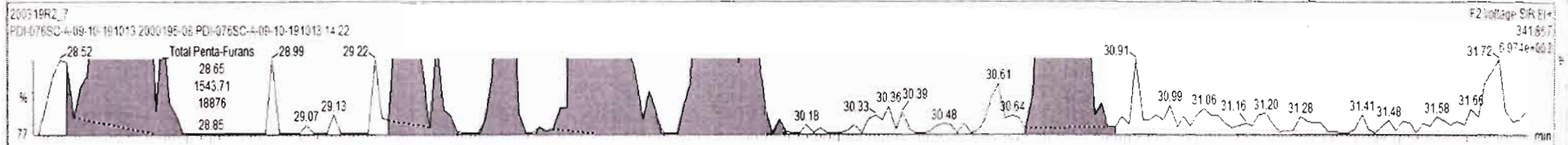
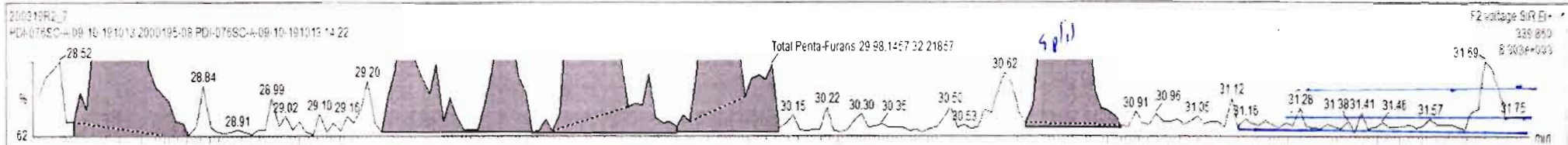
Name	Resp	RA	nly	RBF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.016			0.619	0.0592	0.619	
45 Total Penta-Furans				0.9594	10.016			4.50	0.0679	4.55	
46 Total Hexa-Furans				1.0920	10.016			4.69	0.0546	4.50	
47 Total Hepta-Furans				1.0483	10.016			5.02	0.148	5.37	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	29.87	2.411e2	1.544e2	1.56	NO	1.0034	1.0034
2 Total Penta-Furans	29.25	4.300e2	3.144e2	1.38	NO	0.13961	0.13961
3 Total Penta-Furans	29.51	3.887e2	2.895e2	1.50	NO	0.16442	0.16442
4 1,2,3,7,8-PeCDF	29.71	3.960e2	2.358e2	1.66	NO	1.5479	1.5479
5 Total Penta-Furans	29.98	1.457e2	1.031e2	1.34	NO	0.64849	0.64849
6 2,3,4,7,8-PeCDF	30.74	2.257e2	1.520e2	1.48	NO	0.94975	0.94975
7 Total Penta-Furans	31.69	1.135e2	7.504e1	2.05	YES	0.046543	0.00000



Name	Reso	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.5594	10.016			0.619		0.0552	0.619
45 Total Penta-Furans				0.5594	10.016			4.31		0.0579	4.50
46 Total Hexa-Furans				1.0920	10.016			5.03		0.148	5.33
47 Total Hepta-Furans				1.0483	10.016						
48 PK1											

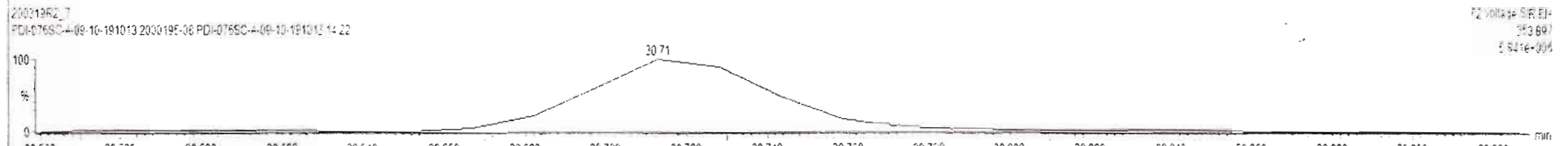
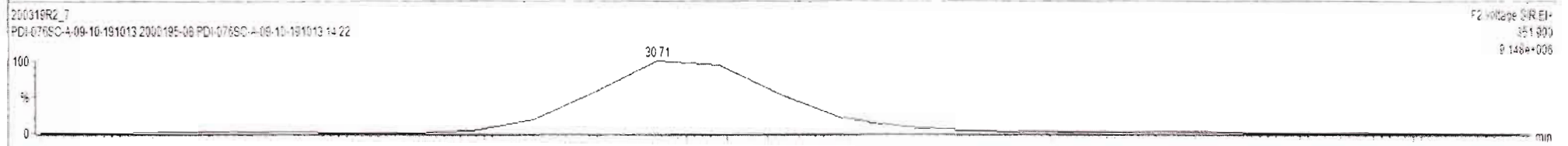
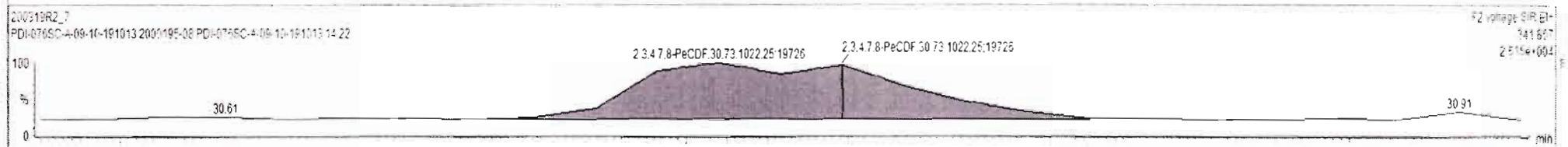
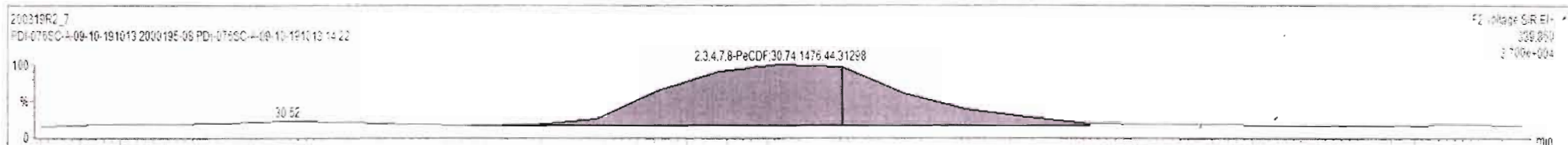
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.67	2.411e2	1.544e2	1.56	NO	1.0034	1.0034
2 Total Penta-Furans	29.28	4.330e2	3.144e2	1.36	NO	0.10961	0.00300
3 Total Penta-Furans	29.51	3.887e2	2.595e2	1.50	NO	0.16448	0.16448
4 1,2,3,7,8-PeCDF	29.71	3.990e3	2.368e2	1.68	NO	1.5479	1.5479
5 Total Penta-Furans	29.98	1.457e3	1.091e2	1.34	NO	0.24649	0.64649
6 2,3,4,7,8-PeCDF	30.74	2.257e3	1.520e2	1.48	NO	0.94975	0.94975



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Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.016			0.219		0.0592	0.615
45 Total Penta-Furans				0.9594	10.016			4.47		0.0679	4.58
46 Total Hexa-Furans				1.0320	10.016			4.69		0.0546	4.90
47 Total Hepta-Furans				1.0483	10.016			5.03		0.148	5.33
48 PF-K1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	26.52	2.03e2	1.012e2	2.51	YES	0.065448	0.00700
2 Total Penta-Furans	29.67	2.411e2	1.515e2	1.59	NO	0.99711	0.96711
3 Total Penta-Furans	29.26	4.335e2	3.144e2	1.38	NO	0.18961	0.18361
4 Total Penta-Furans	29.51	2.857e2	2.695e2	1.50	NO	0.16446	0.16446
5 2,3,4,7,8-PeCDF	29.71	3.962e2	2.359e2	1.68	NO	1.5479	1.5479
6 Total Penta-Furans	29.96	1.457e2	1.051e2	1.34	NO	0.64849	0.64849
7 2,3,4,7,8-PeCDF	30.74	1.476e2	1.022e2	1.44	NO	0.62838	0.62838
8 Total Penta-Furans	30.76	6.97e2	4.651e2	1.90	NO	0.29492	0.29492
9 Total Penta-Furans	31.69	1.535e2	7.50e1	2.05	YES	0.048543	0.00000

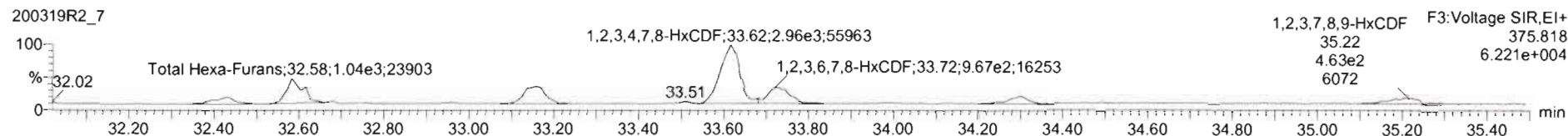
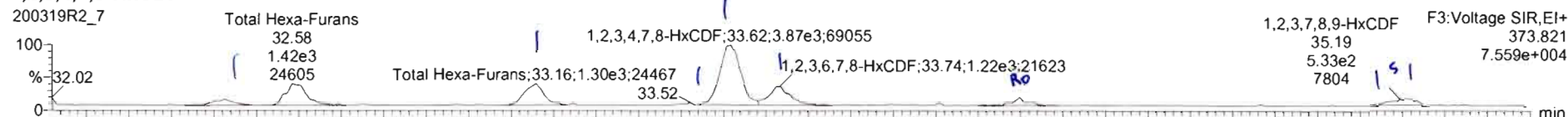


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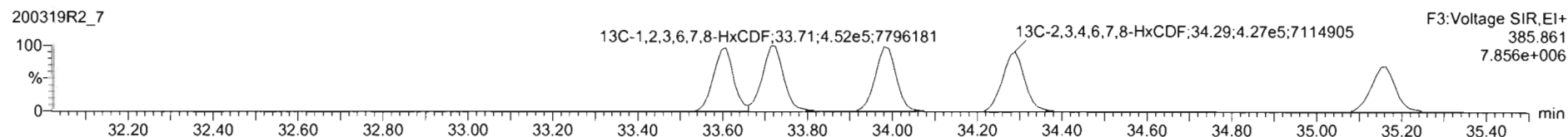
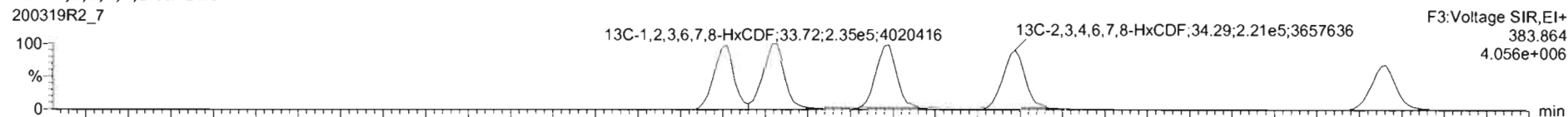
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Name: 200319R2_7, Date: 20-Mar-2020, Time: 09:56:00, ID: 2000195-08 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

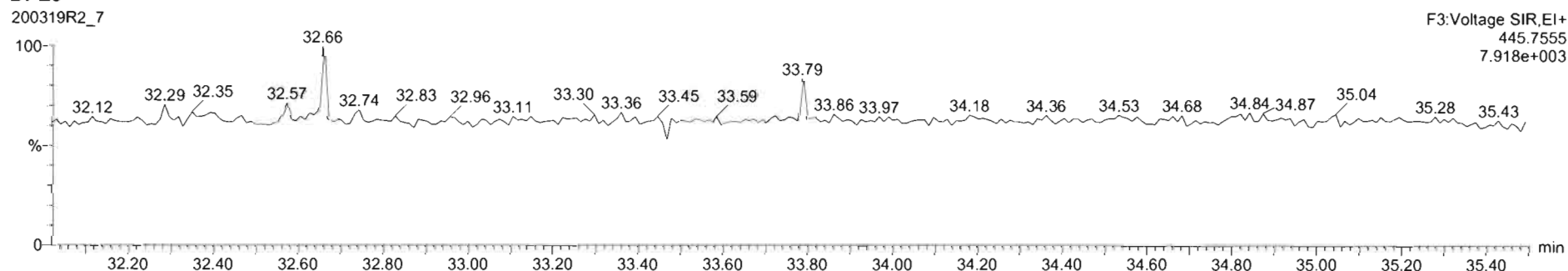
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13C-1,2,3,4,7,8-HxCDF



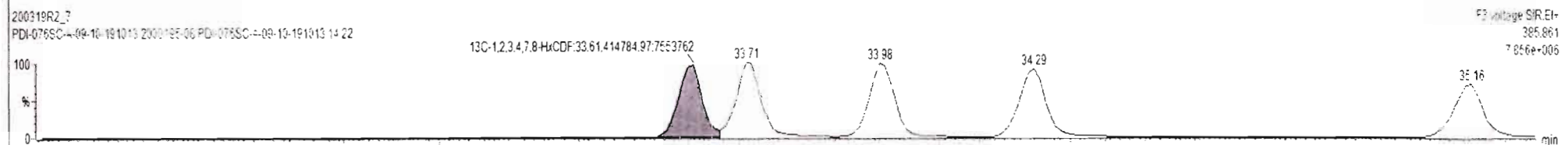
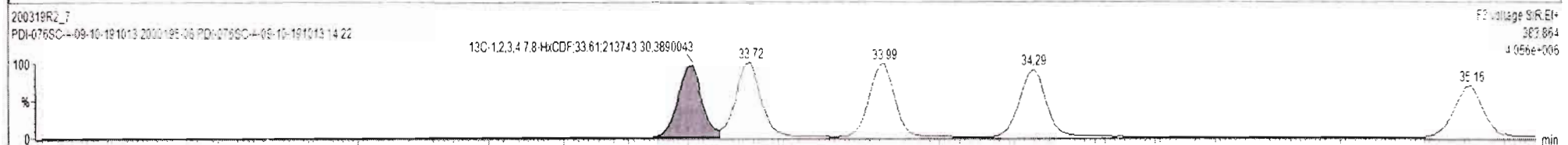
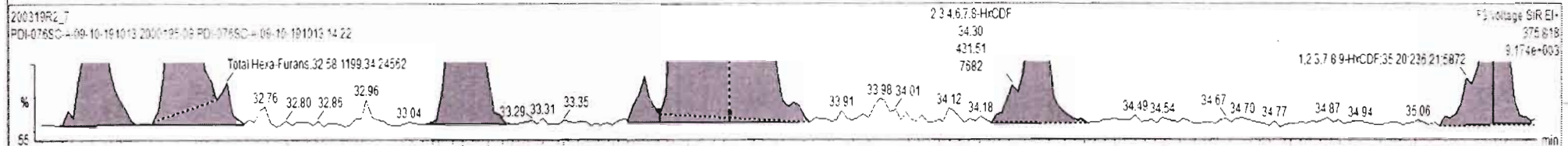
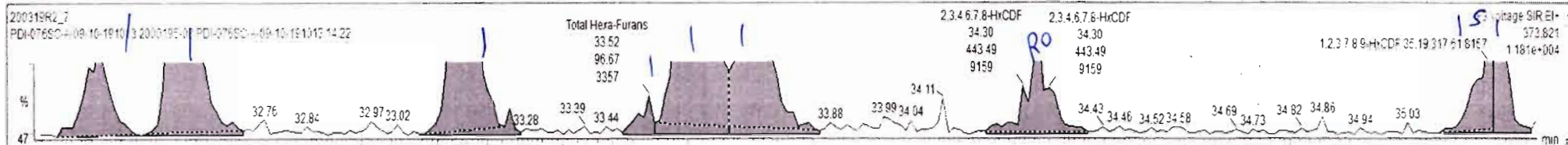
DPE3



200319R2_7 - 2000195-08 PDI-076SC-A-09-10-191013 14.22 - PDI-076SC-A-09-10-191013

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.016			0.615		0.0552	0.615
45 Total Penta-Furans				0.9594	10.016			4.47		0.0879	4.53
46 Total Hexa-Furans				1.0920	10.016			4.91		0.0546	5.14
47 Total Hepta-Furans				1.0483	10.016			5.03		0.148	5.33
48 PFK1											

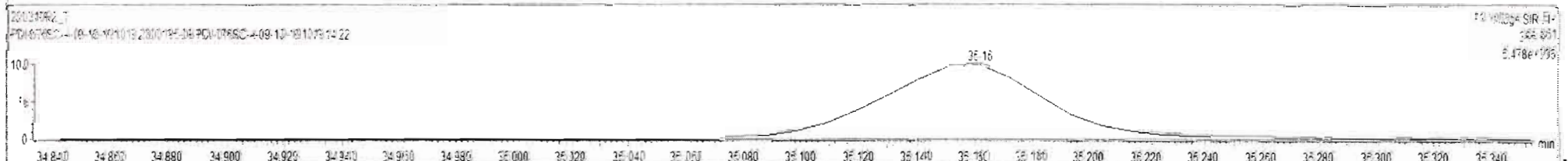
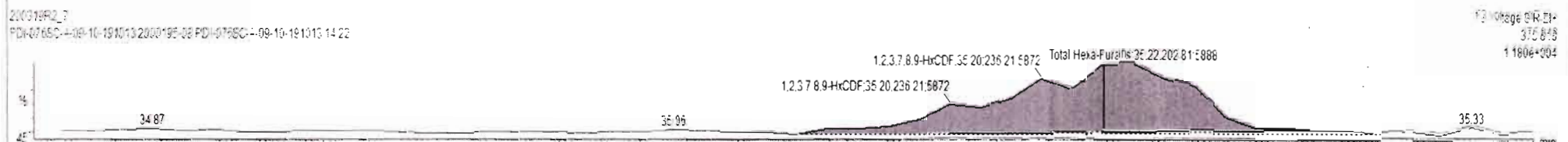
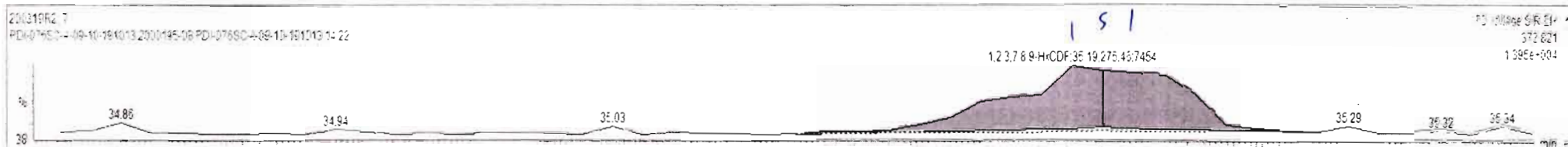
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.42	4.368e2	3.758e2	1.16	NO	0.23649	0.23649
2 Total Hexa-Furans	32.58	1.486e3	1.199e3	1.24	NO	0.75155	0.78155
3 Total Hexa-Furans	33.16	1.400e2	1.002e3	1.40	NO	0.69909	0.69909
4 Total Hexa-Furans	33.32	9.667e1	7.956e1	1.21	NO	0.051413	0.051413
5 1,2,3,4,7,8-HxCDF	33.62	3.667e3	3.014e3	1.32	NO	2.1426	2.1426
6 1,2,3,6,7,8-HxCDF	33.74	1.213e2	6.074e2	1.33	NO	0.66073	0.66073
7 2,3,4,6,7,8-HxCDF	34.30	4.435e2	4.315e2	1.33	YES	0.22632	0.00500
8 1,2,3,7,8,9-HxCDF	35.19	3.176e2	2.362e2	1.34	NO	0.19549	0.19549
9 Total Hexa-Furans	35.20	2.755e2	2.134e2	1.29	NO	0.14230	0.14230



200319R2_7 - 2000195-08 PDI-076SC-A-09-10-191013 14 22 - PDI-076SC-A-09-10-191013

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.018			0.619		0.0592	0.619
45 Total Penta-Furans				0.9594	10.018			4.47		0.0679	4.93
46 Total Hexa-Furans				1.0920	10.016			4.64		0.0546	4.85
47 Total Hepta-Furans				1.0480	10.018			5.00		0.148	5.22
48 PF-K1											

Name	RT	mt Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.42	4.24e2	3.758e2	1.13	NO	0.23293	0.23293
2 Total Hexa-Furans	32.58	1.421e3	1.040e3	1.37	NO	0.71621	0.71621
3 Total Hexa-Furans	33.16	1.299e3	1.002e3	1.30	NO	0.66345	0.66345
4 1,2,3,4,7,8-HxCDF	33.62	3.867e3	2.964e3	1.30	NO	2.0906	2.0906
5 1,2,3,6,7,8-HxCDF	33.74	1.216e3	9.668e2	1.26	NO	0.62714	0.62714
6 2,3,4,6,7,8-HxCDF	34.30	4.139e2	4.281e2	0.97	YES	0.21117	0.00000
7 1,2,3,7,8,9-HxCDF	35.19	2.755e2	2.382e2	1.17	NO	0.18061	0.18061
8 Total Hexa-Furans	35.20	2.269e2	2.028e2	1.12	NO	0.12506	0.12506



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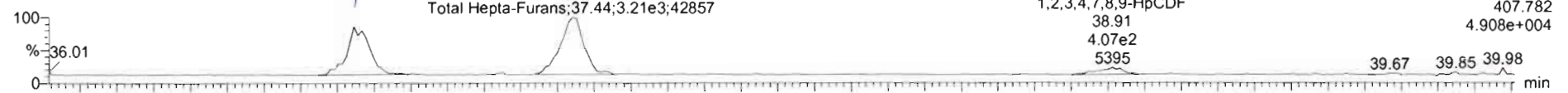
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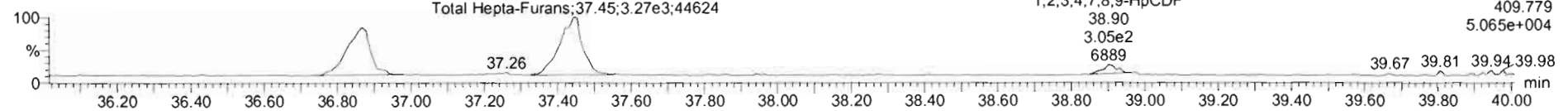
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1,2,3,4,6,7,8-HpCDF

200319R2_7

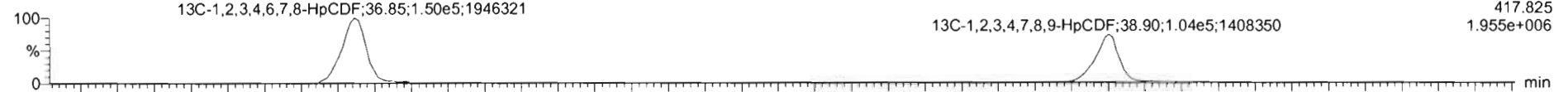


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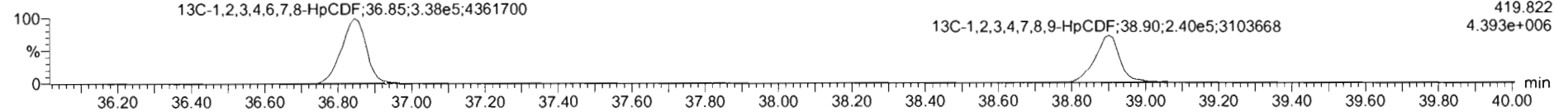


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200319R2_7

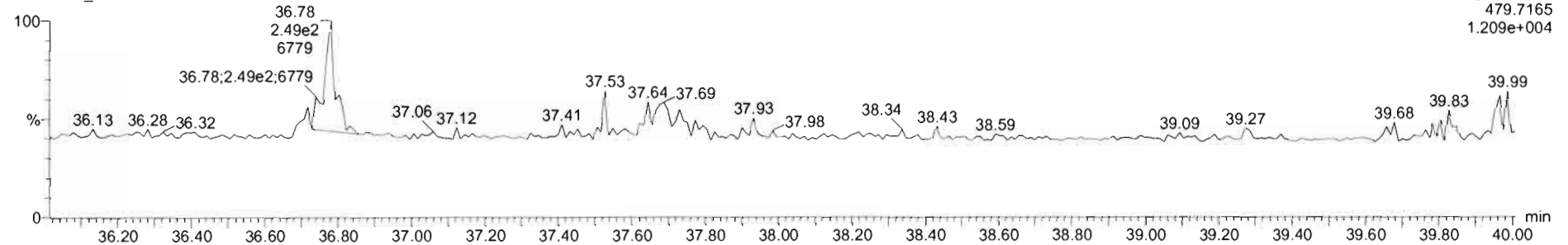


200319R2_7



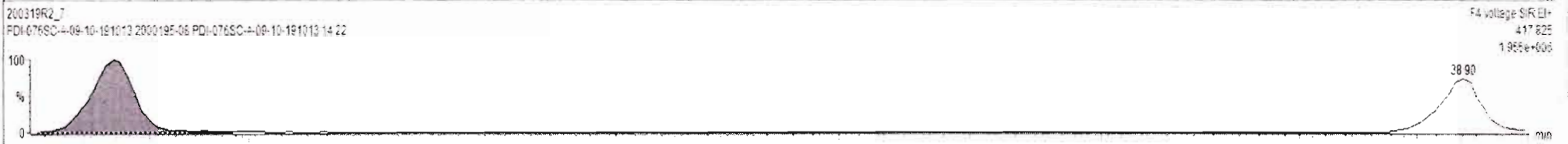
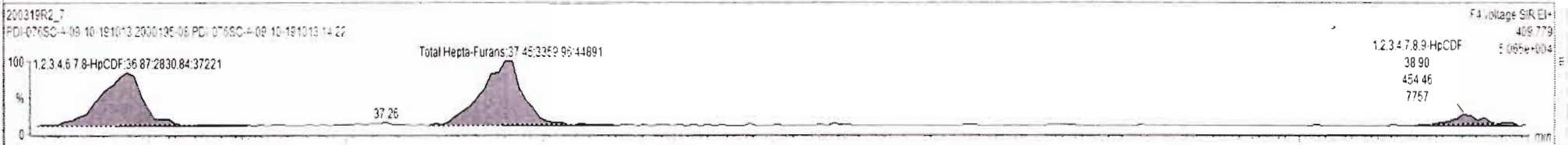
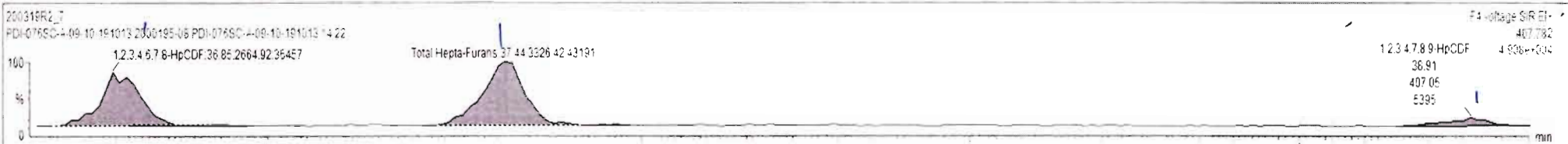
DPE4

200319R2_7



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.016			0.619		0.0292	0.619
45 Total Penta-Furans				0.9594	10.016			4.47		0.0679	4.53
46 Total Hexa-Furans				1.0920	10.016			4.91		0.0546	5.14
47 Total Hepta-Furans				1.0483	10.016			5.55		0.148	5.55
48 PFK1											

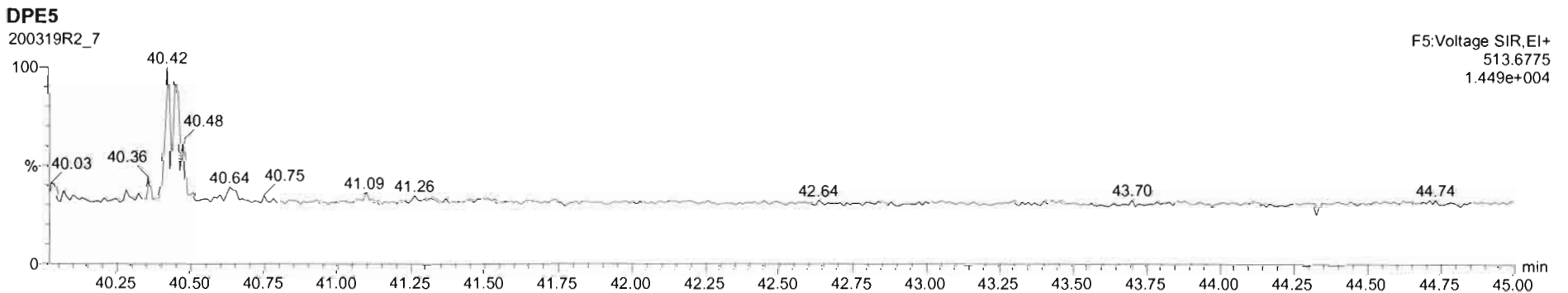
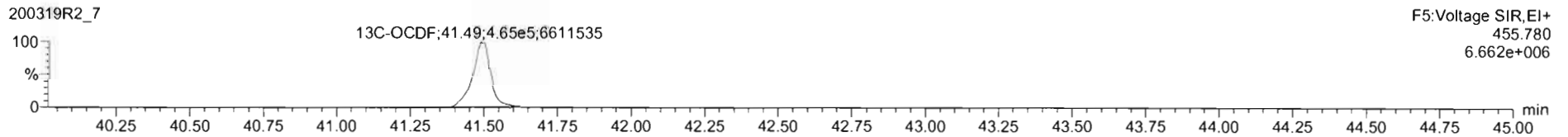
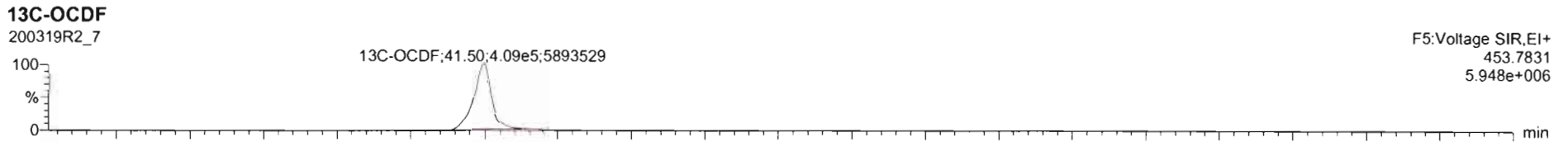
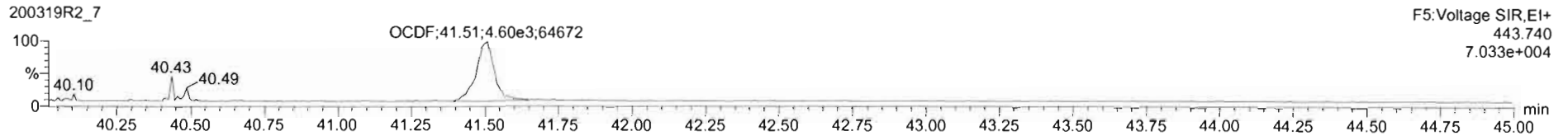
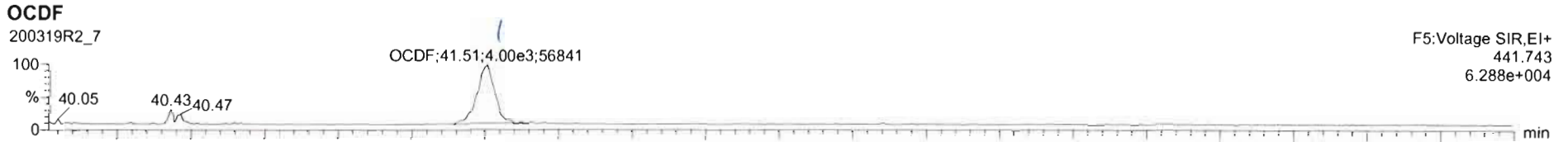
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.85	2.665e2	2.821e2	0.94	NO	2.1053	2.1053
2 Total Hepta-Furans	37.44	3.326e2	3.360e2	0.99	NO	3.0276	3.0276
3 1,2,3,4,7,8,9-HpCDF	38.91	4.071e2	4.545e2	0.90	NO	0.41218	0.41218



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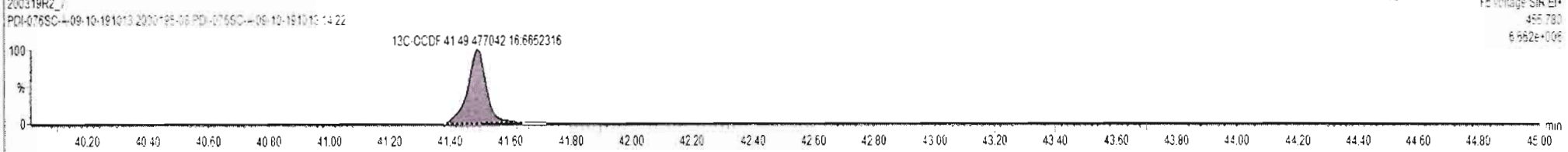
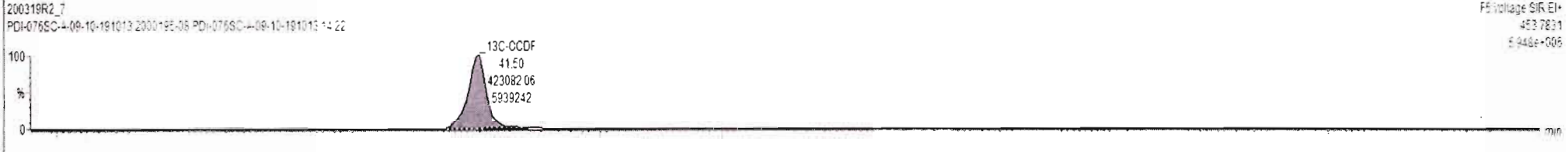
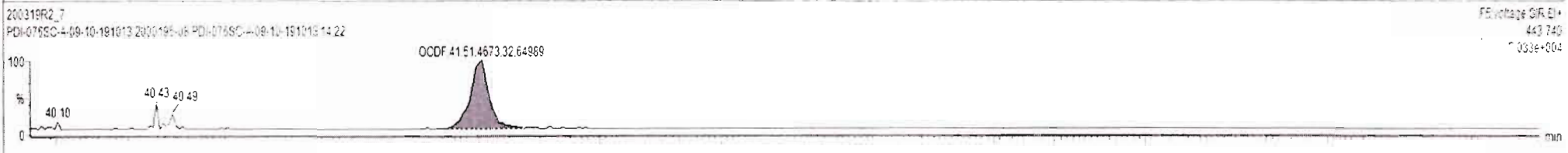
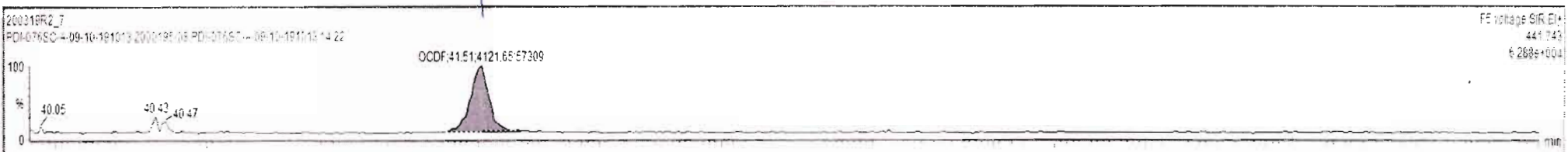
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Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	GL	EMPC
17 OCDF	8.79e3	0.88	NO	0.9468	10.016	41.51	1.000	4.12		0.341	4.12
18 13C-2,3,7,8-TCDD	7.42e5	0.79	NO	1.1842	10.016	25.74	1.029	195	97.8	0.241	
19 13C-1,2,3,7,8-PeCDD	5.42e5	0.64	NO	0.8644	10.016	31.00	1.241	195	97.7	0.314	
20 13C-1,2,3,4,7,8-HxCDD	4.45e5	1.27	NO	0.7539	10.016	34.45	1.013	179	89.7	0.273	
21 13C-1,2,3,6,7,8-HxCDD	5.15e5	1.27	NO	0.9254	10.016	34.56	1.017	170	85.0	0.334	

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

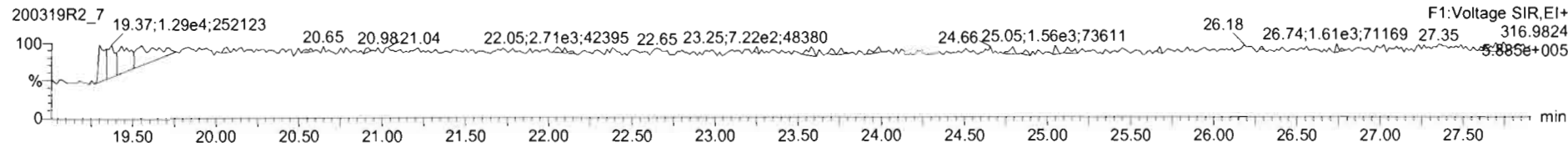


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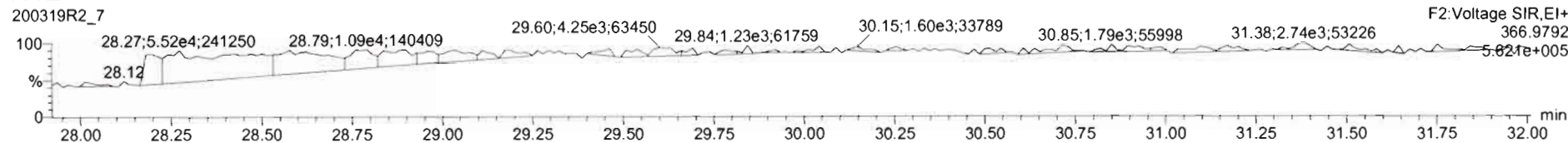
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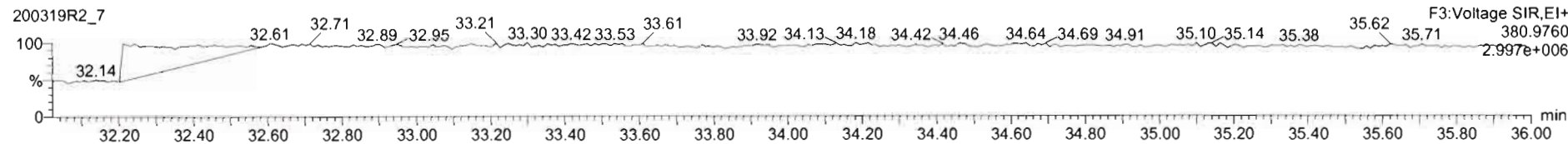
PFK1



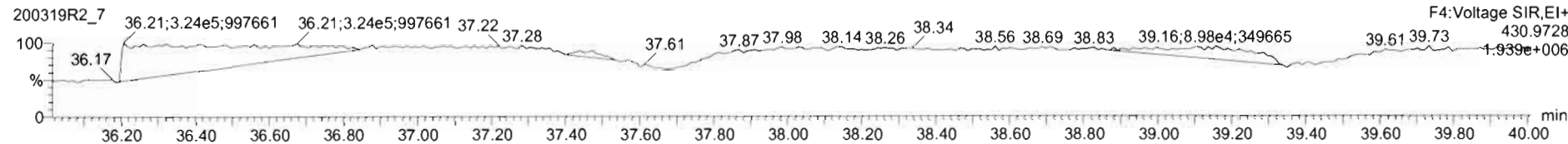
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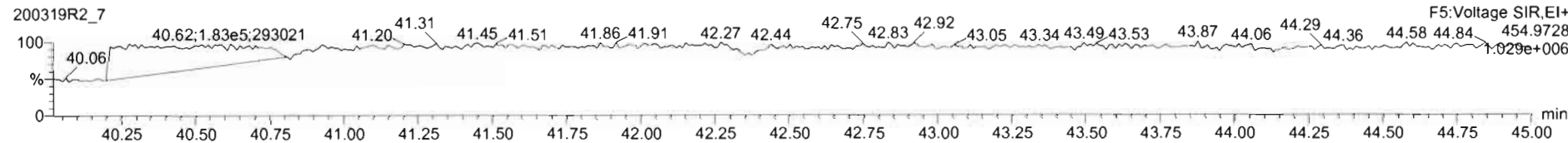
PFK3



PFK4



PFK5



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Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

#	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	1.04e3	0.43	YES	0.983	10.002	25.751	25.74	1.001	1.001	0.24559		0.0847	0.168
2	2 1,2,3,7,8-PeCDD	2.89e3	0.68	NO	0.921	10.002	31.055	31.06	1.001	1.001	0.98800		0.124	0.988
3	3 1,2,3,4,7,8-HxCDD	1.36e3	1.29	NO	1.13	10.002	34.469	34.46	1.000	1.000	0.46319		0.215	0.463
4	4 1,2,3,6,7,8-HxCDD	2.29e4	1.28	NO	0.984	10.002	34.555	34.58	1.000	1.001	7.7153		0.217	7.72
5	5 1,2,3,7,8,9-HxCDD	8.35e3	1.25	NO	0.967	10.002	34.831	34.83	1.000	1.000	3.0165		0.236	3.02
6	6 1,2,3,4,6,7,8-HpCDD	2.06e5	1.00	NO	1.01	10.002	38.251	38.26	1.000	1.001	86.069		0.667	86.1
7	7 OCDD	2.25e6	0.88	NO	1.05	10.002	41.318	41.33	1.000	1.000	1091.7		0.533	1090
8	8 2,3,7,8-TCDF	2.72e3	0.79	NO	0.915	10.002	24.758	24.75	1.001	1.001	0.50540	(0.500)	0.147	0.505
9	9 1,2,3,7,8-PeCDF	3.81e3	1.50	NO	0.959	10.002	29.696	29.71	1.001	1.001	0.82782		0.116	0.828
10	10 2,3,4,7,8-PeCDF	9.25e3	1.48	NO	1.00	10.002	30.744	30.74	1.001	1.001	2.0069		0.105	2.01
11	11 1,2,3,4,7,8-HxCDF	2.00e4	1.16	NO	1.04	10.002	33.607	33.62	1.000	1.000	5.4618		0.222	5.46
12	12 1,2,3,6,7,8-HxCDF	3.50e4	1.20	NO	1.01	10.002	33.734	33.74	1.000	1.000	9.0716		0.219	9.07
13	13 2,3,4,6,7,8-HxCDF	3.21e4	1.20	NO	1.09	10.002	34.323	34.30	1.001	1.000	8.2290		0.222	8.23
14	14 1,2,3,7,8,9-HxCDF	2.88e3	1.19	NO	1.03	10.002	35.152	35.20	1.000	1.002	0.88883		0.309	0.889
15	15 1,2,3,4,6,7,8-HpCDF	1.18e6	1.01	NO	1.05	10.002	36.893	36.87	1.001	1.000	399.65		0.466	400
16	16 1,2,3,4,7,8,9-HpCDF	6.28e3	1.04	NO	1.21	10.002	38.901	38.92	1.000	1.001	2.6791		0.587	2.68
17	17 OCDF	3.13e5	0.86	NO	0.947	10.002	41.489	41.50	1.000	1.000	139.95		0.236	140
18	18 13C-2,3,7,8-TCDD	8.57e5	0.78	NO	1.18	10.002	25.720	25.72	1.029	1.029	189.32	94.7	0.237	
19	19 13C-1,2,3,7,8-PeCDD	6.35e5	0.64	NO	0.864	10.002	30.900	31.03	1.236	1.241	192.21	96.1	0.304	
20	20 13C-1,2,3,4,7,8-HxCDD	5.18e5	1.29	NO	0.754	10.002	34.463	34.46	1.014	1.014	178.94	89.5	0.365	
21	21 13C-1,2,3,6,7,8-HxCDD	6.02e5	1.29	NO	0.925	10.002	34.572	34.56	1.017	1.017	169.51	84.8	0.297	
22	22 13C-1,2,3,7,8,9-HxCDD	5.72e5	1.24	NO	0.829	10.002	34.834	34.82	1.025	1.024	179.76	89.9	0.332	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.76e5	1.06	NO	0.598	10.002	38.294	38.24	1.127	1.125	207.24	104	0.564	
24	24 13C-OCDD	7.85e5	0.93	NO	0.571	10.002	41.445	41.32	1.219	1.216	358.42	89.6	0.333	
25	25 13C-2,3,7,8-TCDF	1.18e6	0.78	NO	1.09	10.002	24.742	24.73	0.990	0.989	175.16	87.6	0.260	
26	26 13C-1,2,3,7,8-PeCDF	9.60e5	1.59	NO	0.876	10.002	29.572	29.67	1.183	1.187	177.65	88.8	0.444	
27	27 13C-2,3,4,7,8-PeCDF	9.18e5	1.59	NO	0.844	10.002	30.582	30.71	1.223	1.228	176.48	88.3	0.461	
28	28 13C-1,2,3,4,7,8-HxCDF	7.04e5	0.52	NO	1.00	10.002	33.610	33.61	0.989	0.989	183.41	91.7	0.490	
29	29 13C-1,2,3,6,7,8-HxCDF	7.63e5	0.52	NO	1.12	10.002	33.719	33.72	0.992	0.992	177.89	89.0	0.438	
30	30 13C-2,3,4,6,7,8-HxCDF	7.13e5	0.51	NO	1.04	10.002	34.300	34.29	1.009	1.009	179.61	89.8	0.473	
31	31 13C-1,2,3,7,8,9-HxCDF	6.30e5	0.52	NO	0.873	10.002	35.174	35.15	1.035	1.034	188.19	94.1	0.561	

Dataset: U:\WG12.PRO\Results\200319R2\200319R2-10.qld

Last Altered: Thursday, March 26, 2020 2:15:14 PM Pacific Daylight Time

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Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	5.62e5	0.44	NO	0.771	10.002	36.890	36.86	1.085	1.084	190.09	95.1	0.538	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.88e5	0.43	NO	0.519	10.002	38.977	38.90	1.147	1.144	194.55	97.3	0.799	
34	34 13C-OCDF	9.45e5	0.89	NO	0.696	10.002	41.625	41.49	1.225	1.221	353.87	88.5	0.337	
35	35 37Cl-2,3,7,8-TCDD	3.27e5			1.17	10.002	25.730	25.75	1.029	1.030	72.837	91.1	0.127	
36	36 13C-1,2,3,4-TCDD	7.65e5	0.79	NO	1.00	10.002	25.050	25.00	1.000	1.000	199.96	100	0.281	
37	37 13C-1,2,3,4-TCDF	1.23e6	0.79	NO	1.00	10.002	23.190	23.06	1.000	1.000	199.96	100	0.284	
38	38 13C-1,2,3,4,6,9-HxCDF	7.67e5	0.52	NO	1.00	10.002	33.880	33.99	1.000	1.000	199.96	100	0.490	
39	39 Total Tetra-Dioxins				0.983	10.002	24.620		0.000		3.0121		0.0847	3.82
40	40 Total Penta-Dioxins				0.921	10.002	29.960		0.000		11.396		0.124	14.1
41	41 Total Hexa-Dioxins				0.984	10.002	33.635		0.000		72.744		0.231	72.7
42	42 Total Hepta-Dioxins				1.01	10.002	37.640		0.000		197.57		0.667	198
43	43 Total Tetra-Furans				0.915	10.002	23.610		0.000		44.209		0.147	44.5 P
44	44 1st Func Penta-Furans				0.959	10.002	27.090		0.000		73.218		0.0409	73.2
45	45 Total Penta-Furans				0.959	10.002	29.275		0.000		37.798		0.113	38.8 P
46	46 Total Hexa-Furans				1.09	10.002	33.555		0.000		267.85		0.230	268
47	47 Total Hepta-Furans				1.05	10.002	37.835		0.000		718.16		0.552	718

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Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.38	1.465e4	2.022e4	1.500e3	1.841e3	0.81	NO	3.341e3	0.79240	0.79240	0.0847
2	Total Tetra-Dioxins	21.78	8.398e3	9.910e3	8.251e2	9.480e2	0.87	NO	1.773e3	0.42052	0.42052	0.0847
3	Total Tetra-Dioxins	22.31	8.626e3	1.016e4	6.878e2	8.542e2	0.81	NO	1.542e3	0.36574	0.36574	0.0847
4	Total Tetra-Dioxins	23.25	3.443e3	4.918e3	3.797e2	4.487e2	0.85	NO	8.284e2	0.19647	0.19647	0.0847
5	Total Tetra-Dioxins	23.57	7.461e3	8.995e3	7.040e2	9.250e2	0.76	NO	1.629e3	0.38635	0.38635	0.0847
6	Total Tetra-Dioxins	23.82	9.563e3	1.390e4	9.455e2	1.124e3	0.84	NO	2.070e3	0.49093	0.49093	0.0847
7	Total Tetra-Dioxins	24.06	4.848e3	3.363e3	2.983e2	2.603e2	1.15	YES	0.000e0	0.00000	0.10928	0.0847
8	Total Tetra-Dioxins	24.36	4.061e3	5.276e3	3.267e2	3.493e2	0.94	YES	0.000e0	0.00000	0.14666	0.0847
9	Total Tetra-Dioxins	24.55	4.590e3	5.332e3	2.330e2	2.968e2	0.79	NO	0.000e0	0.00000	0.12567	0.0847
10	Total Tetra-Dioxins	24.61	5.092e3	3.787e3	1.994e2	1.426e2	1.40	YES	0.000e0	0.00000	0.059884	0.0847
11	Total Tetra-Dioxins	24.97	4.390e3	3.049e3	2.511e2	3.171e2	0.79	NO	5.682e2	0.13477	0.13477	0.0847
12	Total Tetra-Dioxins	25.44	4.062e3	5.976e3	3.737e2	4.705e2	0.79	NO	0.000e0	0.00000	0.20023	0.0847
13	2,3,7,8-TCDD	25.74	4.315e3	1.598e4	3.090e2	7.265e2	0.43	YES	1.035e3	0.00000	0.16845	0.0847
14	Total Tetra-Dioxins	26.11	4.698e3	7.421e3	2.942e2	3.790e2	0.78	NO	6.732e2	0.15967	0.15967	0.0847
15	Total Tetra-Dioxins	26.80	1.998e3	2.706e3	1.169e2	1.583e2	0.74	NO	2.752e2	0.065280	0.065280	0.0847

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.73	7.640e4	1.134e5	5.595e3	8.831e3	0.63	NO	1.443e4	4.9287	4.9287	0.124
2	Total Penta-Dioxins	29.23	1.558e4	2.134e4	8.859e2	1.277e3	0.69	NO	2.163e3	0.73910	0.73910	0.124
3	Total Penta-Dioxins	29.75	6.726e4	7.053e4	3.588e3	4.539e3	0.79	YES	0.000e0	0.00000	2.5277	0.124
4	Total Penta-Dioxins	29.93	2.802e4	4.054e4	1.425e3	2.274e3	0.63	NO	3.699e3	1.2638	1.2638	0.124
5	Total Penta-Dioxins	30.03	2.354e4	2.873e4	1.170e3	1.846e3	0.63	NO	3.016e3	1.0304	1.0304	0.124
6	Total Penta-Dioxins	30.25	2.334e4	3.322e4	1.891e3	2.980e3	0.63	NO	4.871e3	1.6642	1.6642	0.124
7	Total Penta-Dioxins	30.59	5.906e3	6.036e3	2.630e2	3.165e2	0.83	YES	0.000e0	0.00000	0.17628	0.124
8	1,2,3,7,8-PeCDD	31.06	1.909e4	3.423e4	1.168e3	1.724e3	0.68	NO	2.892e3	0.98800	0.98800	0.124
9	Total Penta-Dioxins	31.14	7.826e3	1.129e4	3.927e2	5.818e2	0.68	NO	9.745e2	0.33295	0.33295	0.124
10	Total Penta-Dioxins	31.46	9.972e3	1.566e4	4.682e2	8.440e2	0.55	NO	1.312e3	0.44829	0.44829	0.124

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Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	6.039e5	4.806e5	3.308e4	2.633e4	1.26	NO	5.940e4	21.404	21.404	0.231
2	Total Hexa-Dioxins	33.55	7.351e4	5.115e4	3.806e3	2.866e3	1.33	NO	6.672e3	2.4041	2.4041	0.231
3	Total Hexa-Dioxins	33.81	8.585e5	6.774e5	5.887e4	4.587e4	1.28	NO	1.047e5	37.740	37.740	0.231
4	1,2,3,4,7,8-HxCDD	34.46	1.500e4	1.147e4	7.642e2	5.934e2	1.29	NO	1.358e3	0.46319	0.46319	0.215
5	1,2,3,6,7,8-HxCDD	34.58	2.082e5	1.666e5	1.285e4	1.001e4	1.28	NO	2.286e4	7.7153	7.7153	0.217
6	1,2,3,7,8,9-HxCDD	34.83	6.411e4	5.162e4	4.635e3	3.711e3	1.25	NO	8.346e3	3.0165	3.0165	0.236

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.24	1.846e6	1.737e6	1.349e5	1.319e5	1.02	NO	2.668e5	111.50	111.50	0.667
2	1,2,3,4,6,7,8-HpCDD	38.26	1.246e6	1.237e6	1.030e5	1.029e5	1.00	NO	2.059e5	86.069	86.069	0.667

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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	19.40	1.430e4	1.701e4	1.115e3	1.426e3	0.78	NO	2.541e3	0.47148	0.47148	0.147
2	Total Tetra-Furans	19.90	3.983e4	5.876e4	3.426e3	4.777e3	0.72	NO	8.203e3	1.5222	1.5222	0.147
3	Total Tetra-Furans	20.47	4.357e5	5.598e5	3.683e4	4.898e4	0.75	NO	8.581e4	15.924	15.924	0.147
4	Total Tetra-Furans	20.92	1.763e4	2.073e4	1.548e3	1.882e3	0.82	NO	3.429e3	0.63639	0.63639	0.147
5	Total Tetra-Furans	21.02	1.559e4	1.742e4	1.649e3	2.047e3	0.81	NO	3.697e3	0.68599	0.68599	0.147
6	Total Tetra-Furans	21.36	1.281e5	1.510e5	1.128e4	1.410e4	0.80	NO	2.539e4	4.7110	4.7110	0.147
7	Total Tetra-Furans	21.81	1.560e5	1.958e5	1.438e4	1.896e4	0.76	NO	3.334e4	6.1877	6.1877	0.147
8	Total Tetra-Furans	22.16	1.116e4	1.271e4	8.351e2	1.107e3	0.75	NO	1.942e3	0.36040	0.36040	0.147
9	Total Tetra-Furans	22.62	4.472e3	3.556e3	2.638e2	3.628e2	0.73	NO	6.266e2	0.11628	0.11628	0.147
10	Total Tetra-Furans	22.80	1.334e4	1.869e4	1.136e3	1.470e3	0.77	NO	2.606e3	0.48355	0.48355	0.147
11	Total Tetra-Furans	22.97	1.230e5	1.533e5	1.244e4	1.620e4	0.77	NO	2.864e4	5.3150	5.3150	0.147
12	Total Tetra-Furans	23.68	2.507e4	3.233e4	3.481e3	4.607e3	0.76	NO	8.088e3	1.5010	1.5010	0.147
13	Total Tetra-Furans	24.03	6.406e3	6.585e3	5.093e2	6.334e2	0.80	NO	1.143e3	0.21205	0.21205	0.147
14	Total Tetra-Furans	24.31	5.305e3	6.423e3	6.456e2	7.791e2	0.83	NO	1.425e3	0.26438	0.26438	0.147
15	Total Tetra-Furans	24.49	7.128e3	9.163e3	4.504e2	8.613e2	0.52	YES	0.000e0	0.00000	0.19213	0.147
16	Total Tetra-Furans	24.66	1.217e4	1.775e4	1.246e3	1.577e3	0.79	NO	2.823e3	0.52390	0.52390	0.147
17	2,3,7,8-TCDF	24.75	1.693e4	1.865e4	1.200e3	1.523e3	0.79	NO	2.723e3	0.50540	0.50540	0.147
18	Total Tetra-Furans	25.20	8.752e3	1.447e4	7.684e2	1.145e3	0.67	NO	1.913e3	0.35504	0.35504	0.147
19	Total Tetra-Furans	25.47	4.339e3	4.062e3	2.351e2	3.001e2	0.78	NO	5.352e2	0.099315	0.099315	0.147
20	Total Tetra-Furans	25.74	3.546e3	9.273e3	9.883e1	1.886e2	0.52	YES	0.000e0	0.00000	0.042161	0.147
21	Total Tetra-Furans	25.87	3.220e3	6.216e3	2.181e2	3.356e2	0.65	YES	0.000e0	0.00000	0.093045	0.147
22	Total Tetra-Furans	26.48	1.771e4	2.736e4	1.291e3	1.815e3	0.71	NO	3.106e3	0.57647	0.57647	0.147
23	Total Tetra-Furans	26.68	1.832e4	2.264e4	1.263e3	1.597e3	0.79	NO	2.860e3	0.53072	0.53072	0.147
24	Total Tetra-Furans	26.96	9.905e4	1.363e5	7.386e3	1.000e4	0.74	NO	1.739e4	3.2269	3.2269	0.147

P
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Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	26.95	3.032e6	2.008e6	2.029e5	1.272e5	1.60	NO	3.300e5	73.218	73.218	0.0409

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Dataset: U:\VG12.PRO\Results\200319R2\200319R2-10.qld

Last Altered: Thursday, March 26, 2020 2:15:14 PM Pacific Daylight Time

Printed: Thursday, March 26, 2020 2:21:25 PM Pacific Daylight Time

Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.50	4.584e4	2.985e4	2.782e3	1.695e3	1.64	NO	4.476e3	0.99311	0.99311	0.113
2	Total Penta-Furans	28.67	5.576e5	3.494e5	4.953e4	3.050e4	1.62	NO	8.003e4	17.754	17.754	0.113
3	Total Penta-Furans	29.08	1.110e4	8.545e3	7.920e2	5.457e2	1.45	NO	1.338e3	0.29677	0.29677	0.113
4	Total Penta-Furans	29.28	3.881e5	2.371e5	2.372e4	1.474e4	1.61	NO	3.845e4	8.5305	8.5305	0.113
5	Total Penta-Furans	29.51	2.796e4	2.484e4	1.723e3	1.274e3	1.35	NO	2.997e3	0.66486	0.66486	0.113
6	1,2,3,7,8-PeCDF	29.71	4.341e4	2.494e4	2.289e3	1.526e3	1.50	NO	3.815e3	0.82782	0.82782	0.116
7	Total Penta-Furans	29.98	1.094e5	6.935e4	6.038e3	3.806e3	1.59	NO	9.844e3	2.1839	2.1839	0.113
8	Total Penta-Furans	30.06	3.915e4	2.268e4	1.744e3	1.508e3	1.16	YES	0.000e0	0.00000	0.63637	0.113
9	Total Penta-Furans	30.62	2.214e4	1.213e4	1.201e3	6.445e2	1.86	YES	0.000e0	0.00000	0.36463	0.113
10	2,3,4,7,8-PeCDF	30.74	2.277e5	1.445e5	5.514e3	3.736e3	1.48	NO	9.250e3	2.0069	2.0069	0.106
11	Total Penta-Furans	30.76	2.782e5	1.622e5	1.259e4	7.870e3	1.60	NO	2.046e4	4.5397	4.5397	0.113

P

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.42	1.714e6	1.395e6	9.463e4	7.765e4	1.22	NO	1.723e5	44.905	44.905	0.230
2	Total Hexa-Furans	32.60	3.516e6	2.864e6	1.891e5	1.534e5	1.23	NO	3.425e5	89.273	89.273	0.230
3	Total Hexa-Furans	32.97	2.171e4	2.617e4	1.278e3	1.293e3	0.99	YES	0.000e0	0.00000	0.60177	0.230
4	Total Hexa-Furans	33.16	4.319e6	3.484e6	2.295e5	1.880e5	1.22	NO	4.175e5	108.84	108.84	0.230
5	Total Hexa-Furans	33.51	9.896e3	1.094e4	6.698e2	5.147e2	1.30	NO	1.184e3	0.30874	0.30874	0.230
6	1,2,3,4,7,8-HxCDF	33.62	2.121e5	1.699e5	1.074e4	9.218e3	1.16	NO	1.995e4	5.4618	5.4618	0.222
7	1,2,3,6,7,8-HxCDF	33.74	3.488e5	2.806e5	1.914e4	1.590e4	1.20	NO	3.504e4	9.0716	9.0716	0.219
8	Total Hexa-Furans	33.99	7.000e3	6.482e3	3.408e2	3.010e2	1.13	NO	6.418e2	0.16730	0.16730	0.230
9	2,3,4,6,7,8-HxCDF	34.30	2.969e5	2.512e5	1.751e4	1.454e4	1.20	NO	3.206e4	8.2290	8.2290	0.222
10	1,2,3,7,8,9-HxCDF	35.20	4.050e4	3.144e4	1.563e3	1.313e3	1.19	NO	2.877e3	0.88883	0.88883	0.309
11	Total Hexa-Furans	35.22	4.795e4	3.268e4	1.526e3	1.193e3	1.28	NO	2.720e3	0.70894	0.70894	0.230

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Dataset: U:\VG12.PRO\Results\200319R2\200319R2-10.qld

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Printed: Thursday, March 26, 2020 2:21:25 PM Pacific Daylight Time

Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

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	36.87	7.919e6	7.792e6	5.915e5	5.861e5	1.01	NO	1.178e6	399.65	399.65	0.466
2	Total Hepta-Furans	37.44	5.024e6	5.001e6	3.936e5	3.925e5	1.00	NO	7.861e5	315.83	315.83	0.552
3	1,2,3,4,7,8,9-HpCDF	38.92	4.442e4	3.939e4	3.204e3	3.078e3	1.04	NO	6.282e3	2.6791	2.6791	0.587

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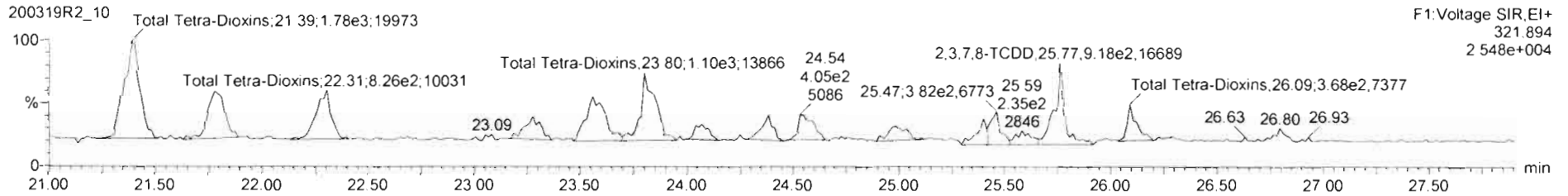
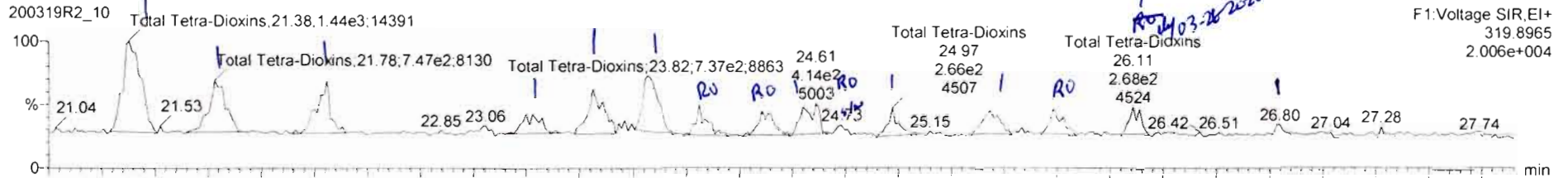
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03-26-2020

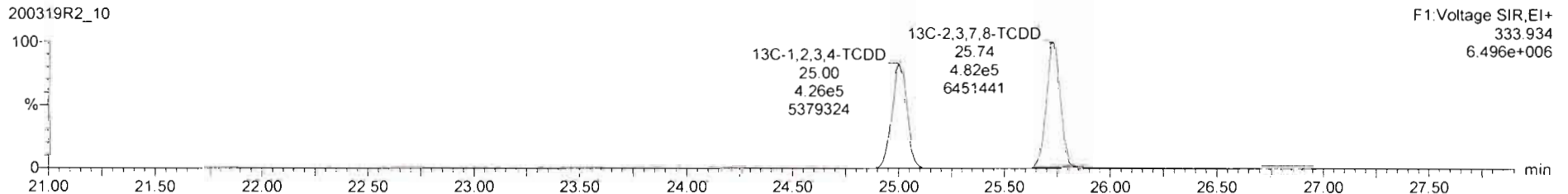
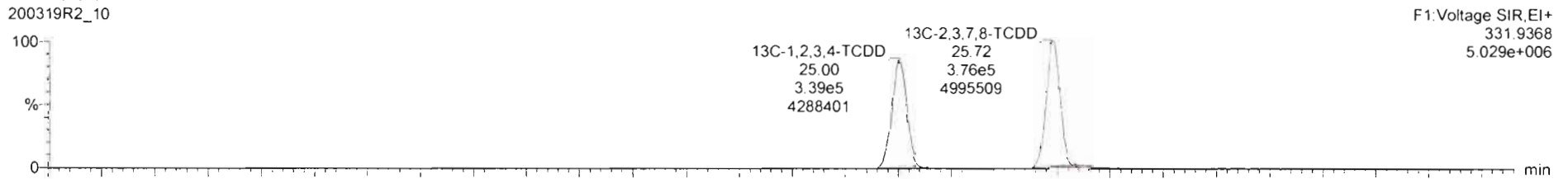
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2,3,7,8-TCDD



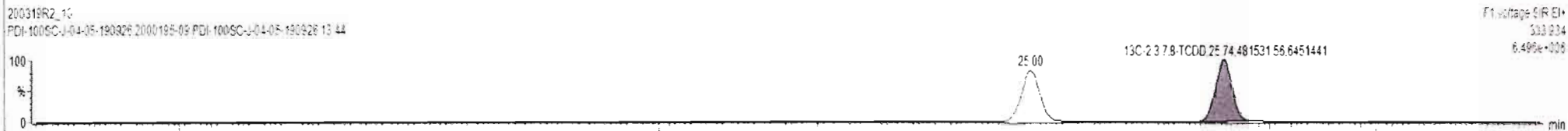
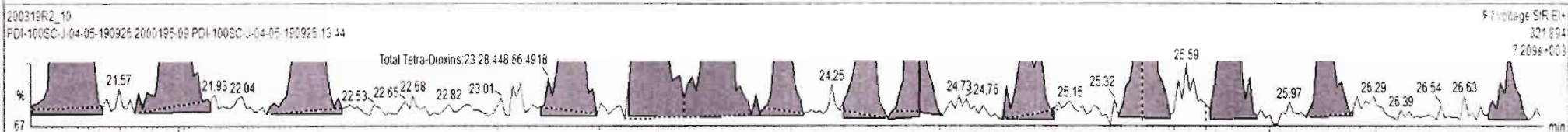
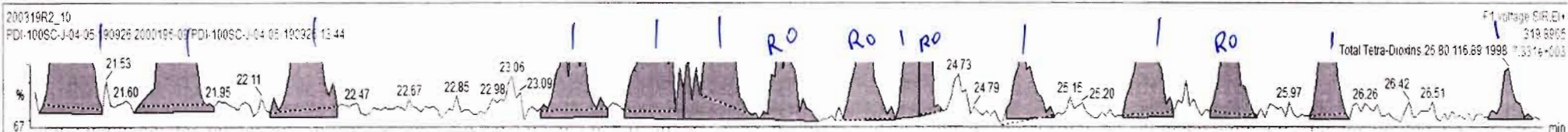
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200319R2_10 - 2000195-09 PDI-100SC-J-04-05-190926 13.44 - PDI-100SC-J-04-05-190926

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.002			3.01		0.0847	3.82
40 Total Penta-Dioxins				0.9212	10.002			11.2		0.124	14.0
41 Total Hexa-Dioxins				0.9844	10.002			70.5		0.231	70.6
42 Total Hepta-Dioxins				1.0061	10.002			198		0.587	198
43 Total Tetra-Furans				0.9154	10.002			42.4		0.147	42.9

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.38	1.500e2	1.841e2	0.81	NO	0.79240	0.79240
2 Total Tetra-Dioxins	21.78	8.251e2	9.480e2	0.87	NO	0.42952	0.42952
3 Total Tetra-Dioxins	22.01	6.879e2	8.542e2	0.81	NO	0.26574	0.26574
4 Total Tetra-Dioxins	22.25	3.797e2	4.487e2	0.85	NO	0.19647	0.19647
5 Total Tetra-Dioxins	22.57	7.040e2	9.250e2	0.76	NO	0.38635	0.38635
6 Total Tetra-Dioxins	22.82	8.455e2	1.124e3	0.84	NO	0.49093	0.49093
7 Total Tetra-Dioxins	24.06	2.583e2	2.803e2	1.15	YES	0.10928	0.00000
8 Total Tetra-Dioxins	24.36	3.267e2	3.497e2	0.94	YES	0.14666	0.00000
9 Total Tetra-Dioxins	24.55	2.330e2	2.966e2	0.79	NO	0.12567	0.00000
10 Total Tetra-Dioxins	24.61	1.994e2	1.426e2	1.40	YES	0.05984	0.00000
11 Total Tetra-Dioxins	24.97	2.511e2	3.171e2	0.79	NO	0.13477	0.13477
12 Total Tetra-Dioxins	25.44	3.737e2	4.705e2	0.79	NO	0.20023	0.00000
13 2,3,7,8-TCDD	25.74	3.090e2	7.265e2	0.43	YES	0.16845	0.00000
14 Total Tetra-Dioxins	26.11	2.942e2	3.790e2	0.78	NO	0.15967	0.15967
15 Total Tetra-Dioxins	26.80	1.199e2	1.583e2	0.74	NO	0.06528	0.06528



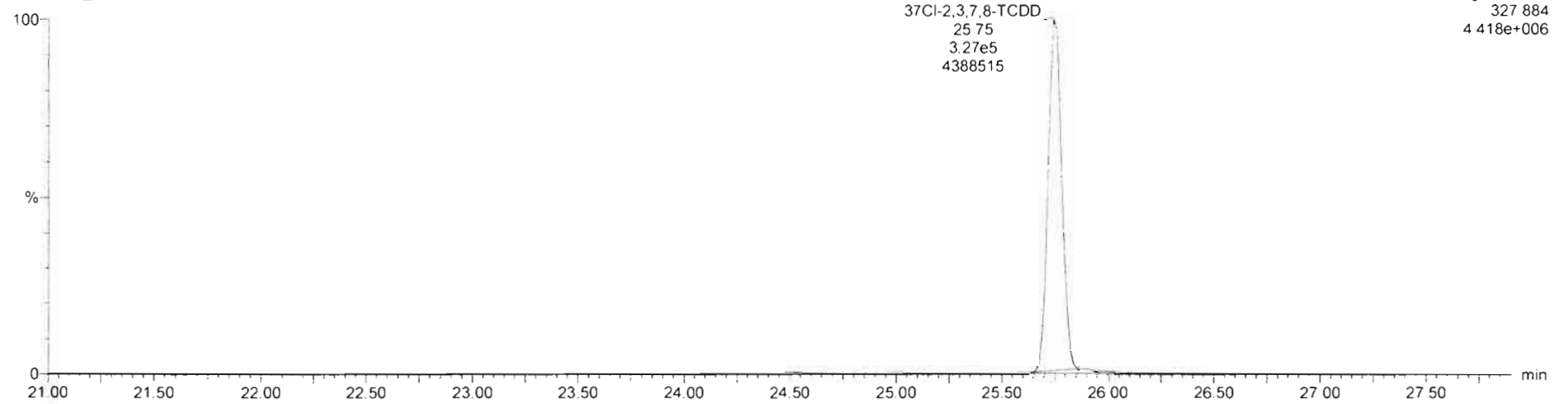
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Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

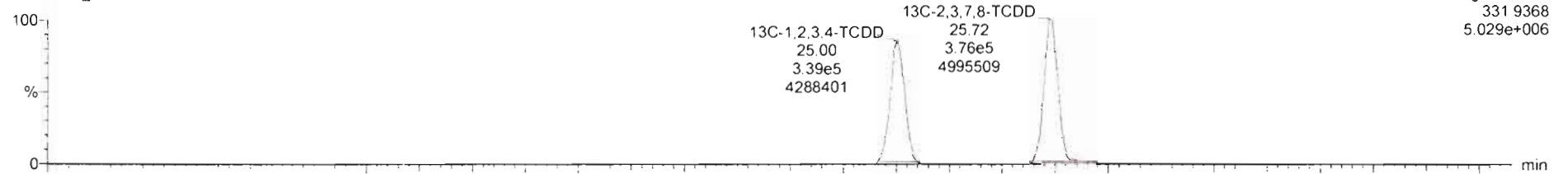
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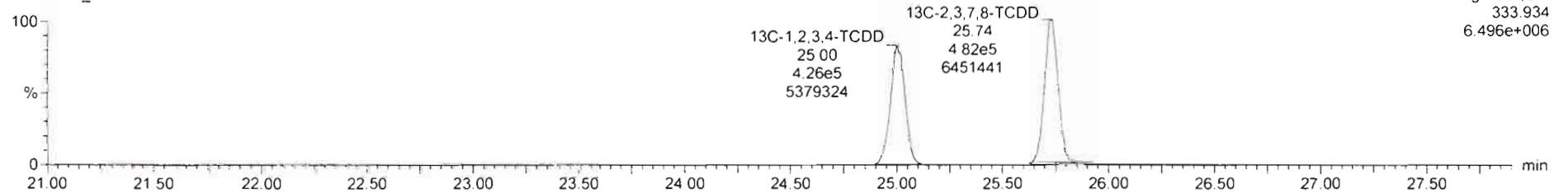


13C-1,2,3,4-TCDD

200319R2_10



200319R2_10



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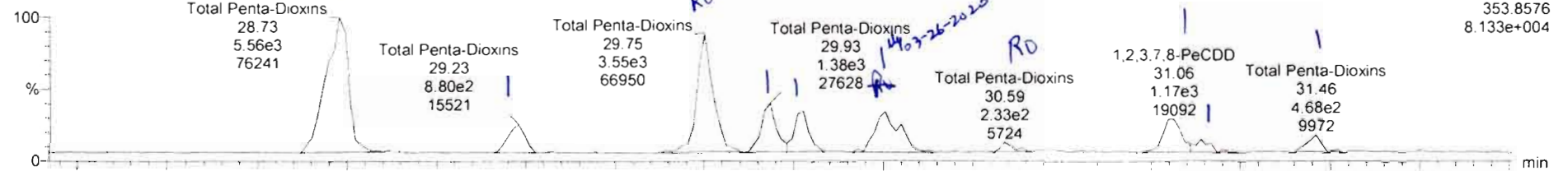
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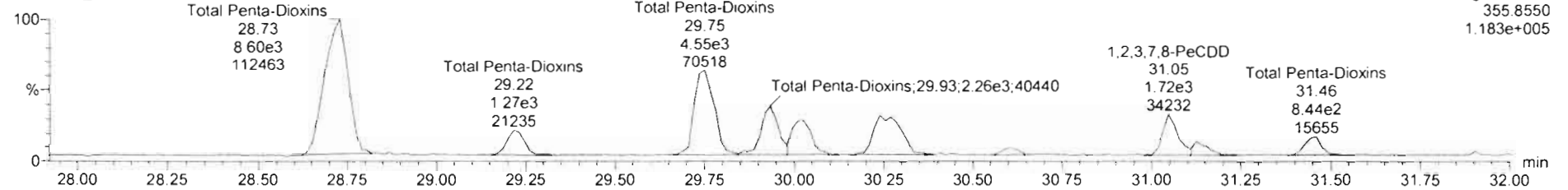
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1,2,3,7,8-PeCDD

200319R2_10

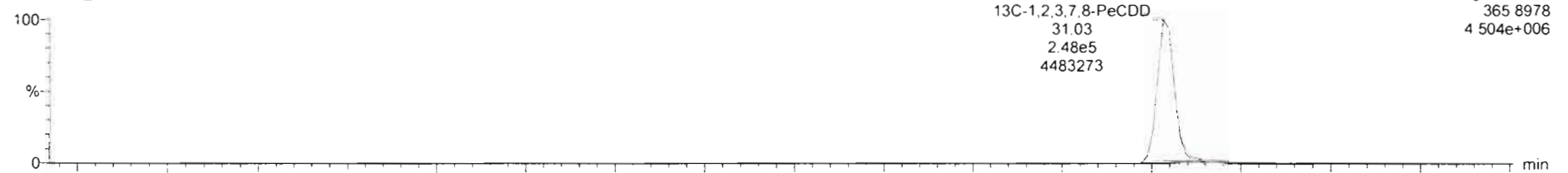


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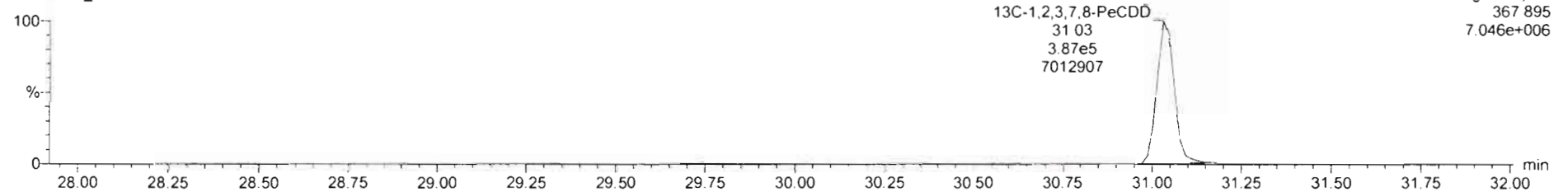


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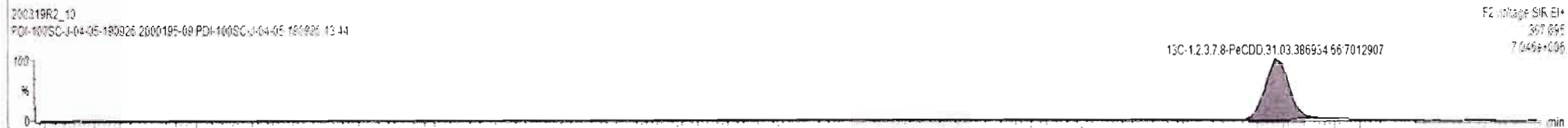
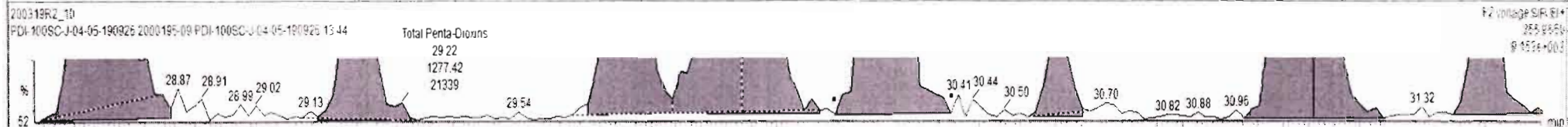
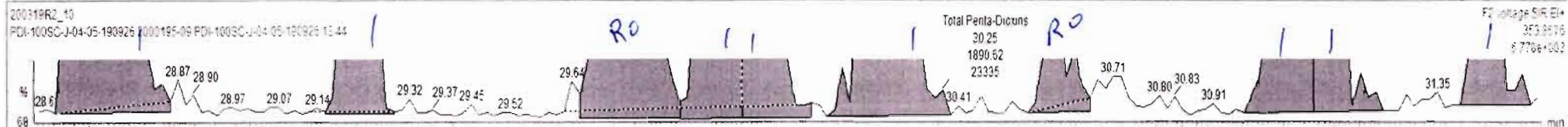


200319R2_10



Name	Resp	RA	n/y	R/R	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9825	10.002			3.01		0.0847	3.82
40 Total Penta-Dioxins				0.9212	10.002			11.4		0.124	14.1
41 Total Hexa-Dioxins				0.9844	10.002			70.5		0.221	70.9
42 Total Hepta-Dioxins				1.0061	10.002			198		0.687	195
43 Total Tetra-Furans				0.9154	10.002			43.4		0.147	43.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.73	5.595e2	8.621e2	0.63	NO	4.5287	4.5287
2 Total Penta-Dioxins	29.22	2.859e2	1.277e2	0.69	NO	0.71910	0.71910
3 Total Penta-Dioxins	29.75	2.588e2	4.538e2	0.75	YES	2.5277	0.00000
4 Total Penta-Dioxins	29.92	1.425e2	2.274e2	0.63	NO	1.2228	1.2228
5 Total Penta-Dioxins	30.03	1.170e2	1.846e2	0.62	NO	1.0304	1.0304
6 Total Penta-Dioxins	30.25	1.891e2	2.980e2	0.62	NO	1.6642	1.6642
7 Total Penta-Dioxins	30.59	2.820e2	2.185e2	0.82	YES	0.17828	0.00000
8 1,2,3,7,8-PeCDD	31.06	1.183e2	1.724e2	0.68	NO	0.98800	0.98800
9 Total Penta-Dioxins	31.14	3.627e2	5.818e2	0.68	NO	0.32295	0.32295
10 Total Penta-Dioxins	31.46	4.682e2	8.440e2	0.55	NO	0.44829	0.44829



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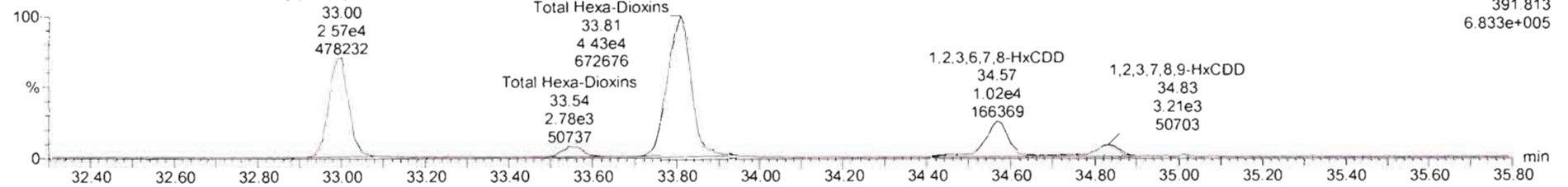
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1,2,3,4,7,8-HxCDD

200319R2_10

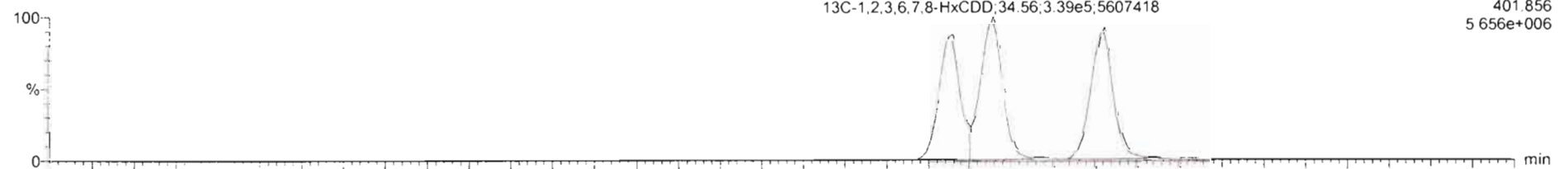


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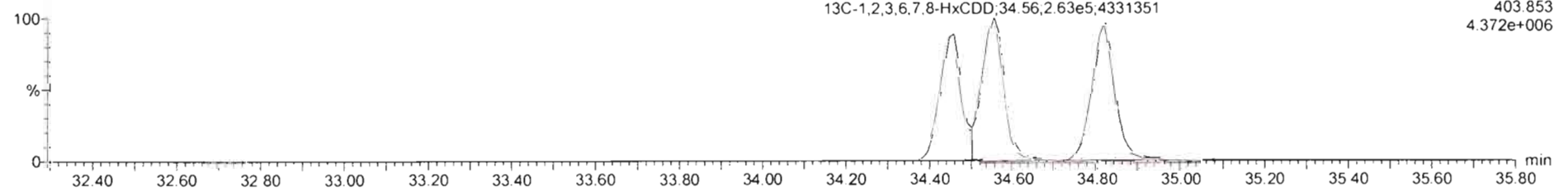


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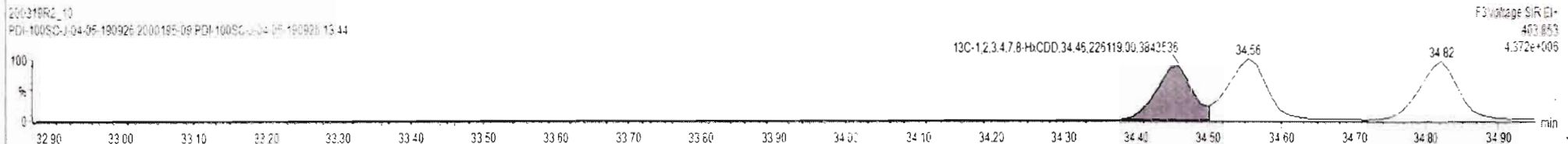
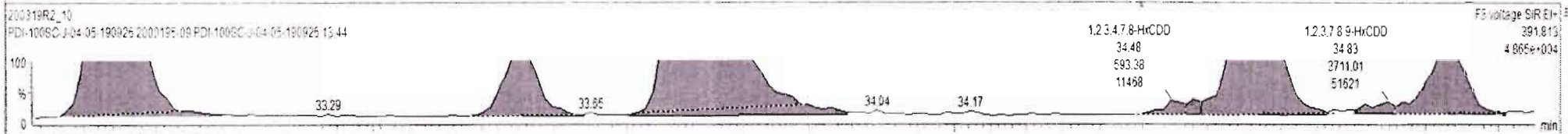
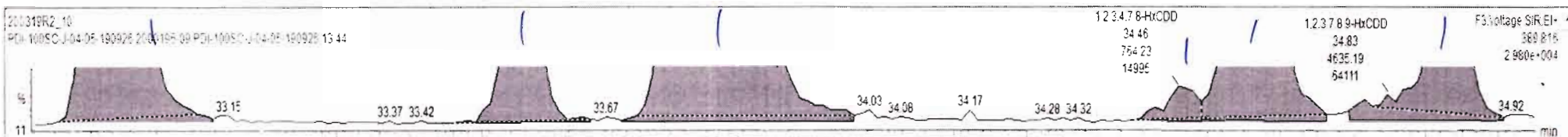


200319R2_10



ID#	Name	Resp	RA	n/y	RF6	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9835	10.002			3.01		0.0847	3.52
40	Total Penta-Dioxins				0.5212	10.002			11.4		0.124	14.1
41	Total Hexa-Dioxins				0.9844	10.002			72.8		6.231	72.8
42	Total Hepta-Dioxins				1.0061	10.002			198		0.657	198
43	Total Tetra-Furans				0.9154	10.002			42.4		0.147	43.5

ID#	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Dioxins	33.00	2.315e4	2.629e4	1.26	NO	21.453	21.453
2	Total Hexa-Dioxins	33.55	3.809e3	2.886e3	1.35	NO	2.4041	2.4041
3	Total Hexa-Dioxins	33.81	5.687e4	4.587e4	1.28	NO	37.740	37.740
4	1,2,3,4,7,8-HxCDD	34.46	7.842e2	5.924e2	1.29	NO	0.48319	0.48315
5	1,2,3,6,7,8-HxCDD	34.56	1.285e4	1.001e4	1.28	NO	7.7152	7.7152
6	1,2,3,7,8,9-HxCDD	34.82	4.625e2	3.711e2	1.25	NO	3.0185	3.0185



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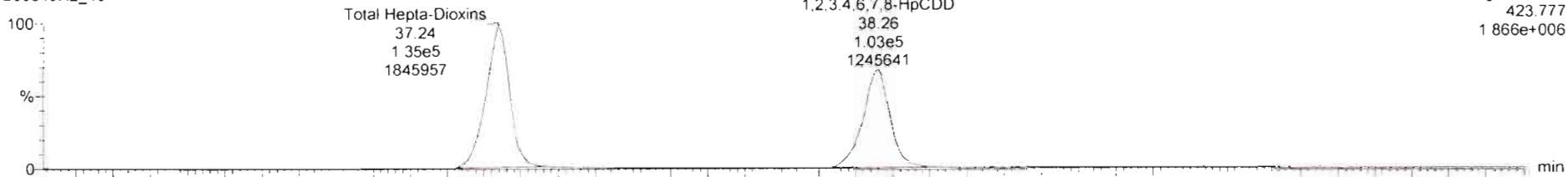
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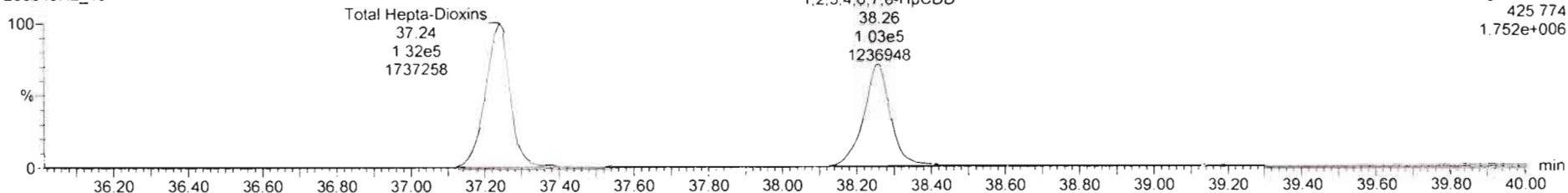
1,2,3,4,6,7,8-HpCDD

200319R2_10



F4: Voltage SIR, EI+
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1.866e+006

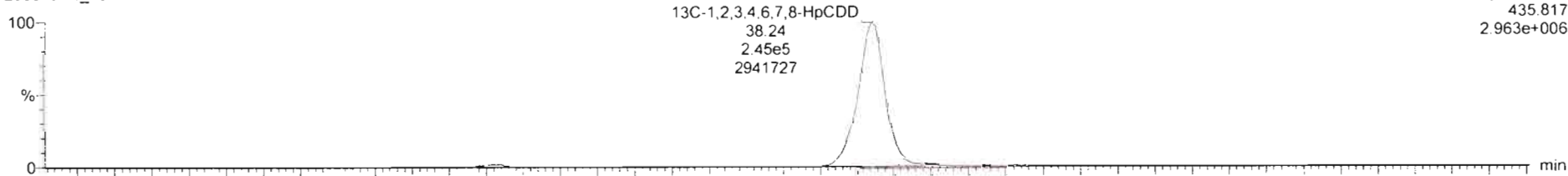
200319R2_10



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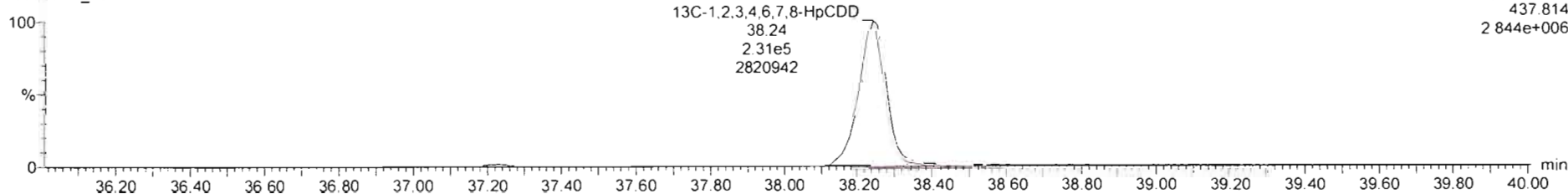
13C-1,2,3,4,6,7,8-HpCDD

200319R2_10



F4: Voltage SIR, EI+
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2.963e+006

200319R2_10

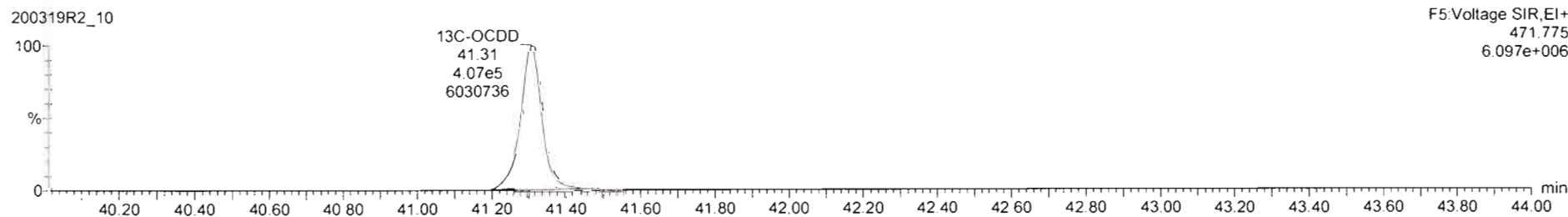
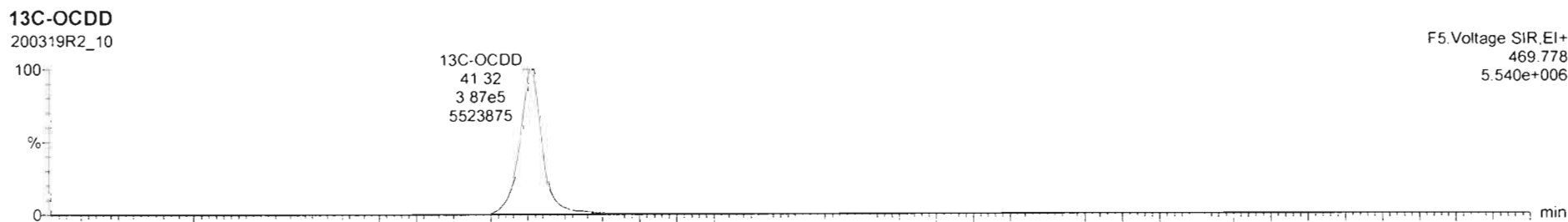
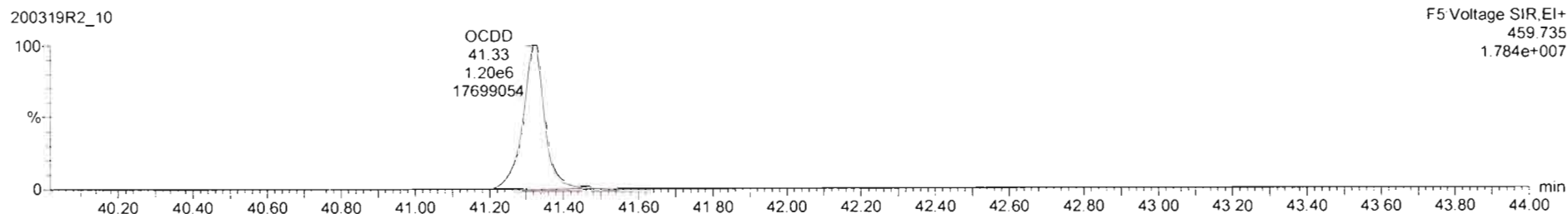
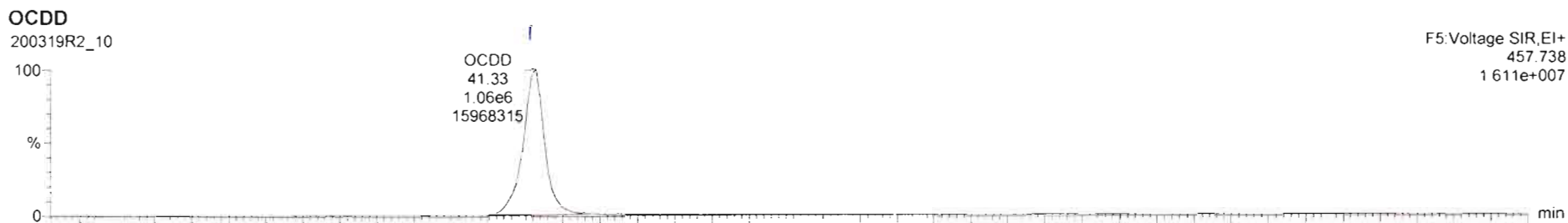


F4: Voltage SIR, EI+
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2.844e+006

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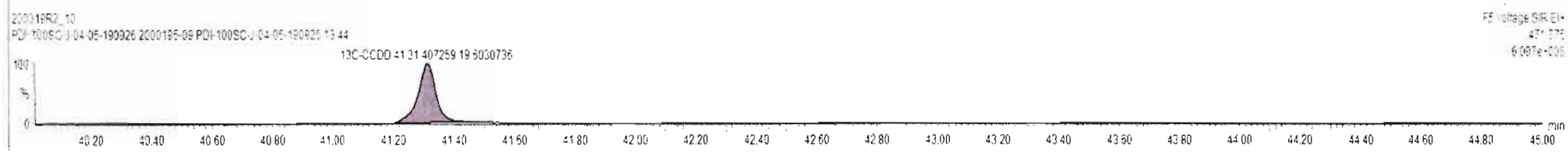
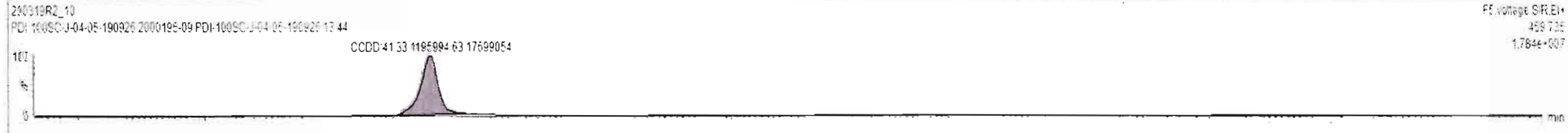
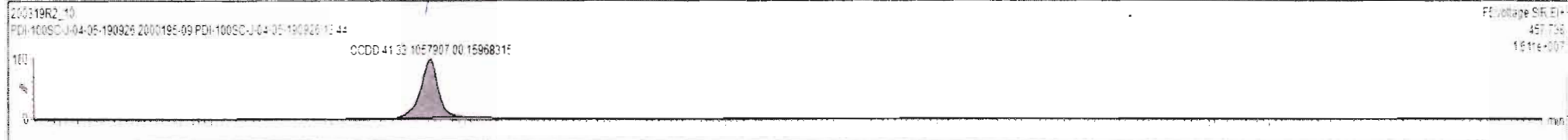
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Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	2.25e6	0.88	NO	1.0515	10.002	41.33	1.000	1090		0.533	1090
8 2,3,7,8-TCDF	2.75e2	0.80	NO	0.5154	10.002	24.75	1.001	0.510		0.147	0.510
9 1,2,3,7,8-PeCDF	3.71e3	1.55	NO	0.9594	10.002	29.71	1.001	0.805		0.116	0.805
10 2,3,4,7,8-PeCDF	2.94e4	1.58	NO	1.0025	10.002	30.75	1.001	8.29		0.105	8.29
11 1,2,2',4',7,8-HxCDF	1.95e4	1.18	NO	1.0381	10.002	27.62	1.002	5.42		0.222	5.42

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



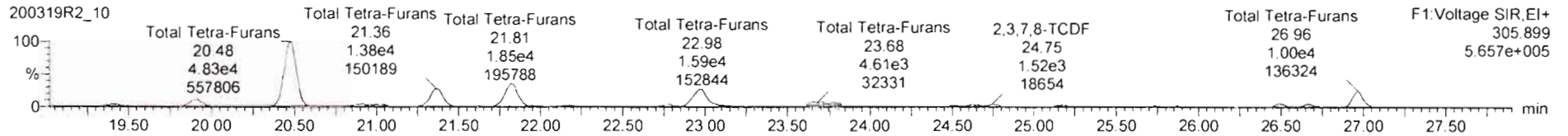
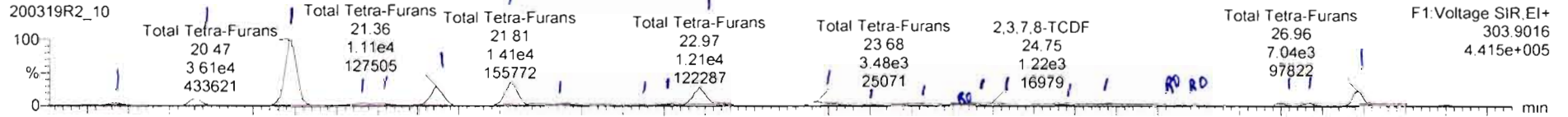
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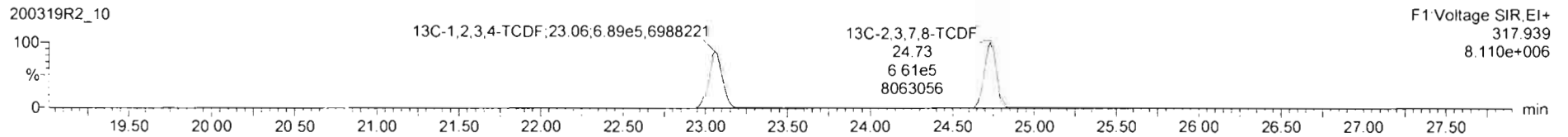
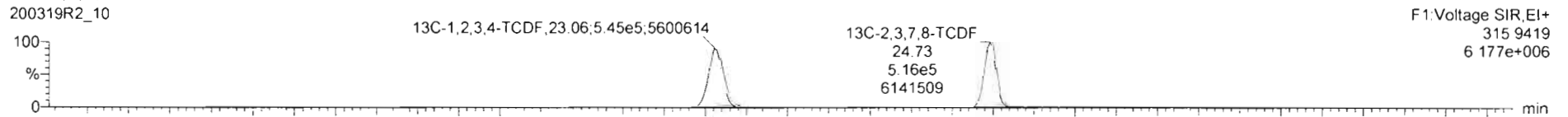
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Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

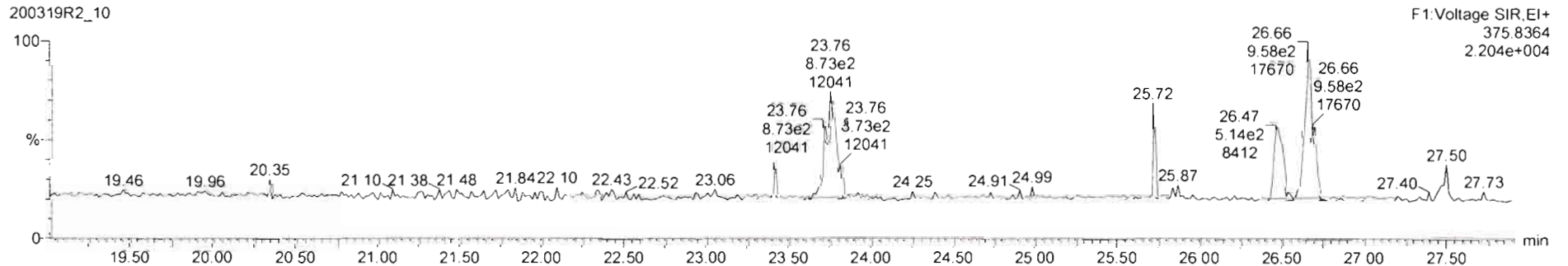
2,3,7,8-TCDF



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

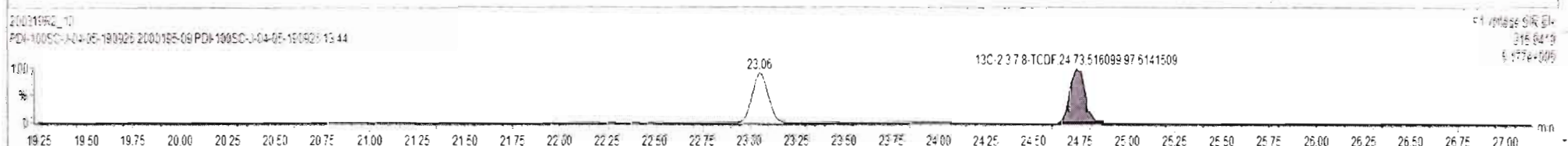
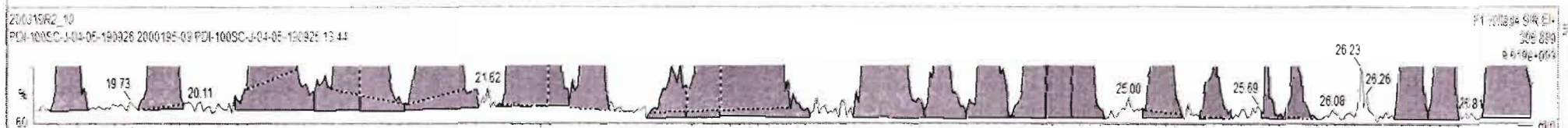


DPE1



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.002			44.2		0.147	44.5
44 1st Func. Penta-Furans				0.9594	10.002			73.2		0.0409	73.2
45 Total Penta-Furans				0.9594	10.002			36.0		0.113	37.7
46 Total Hexa-Furans				1.0520	10.002			262		0.230	262
47 Total Hepta-Furans				1.0463	10.002			712		0.554	712

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Furans	19.40	1.115e3	1.426e3	0.78	NO	0.47148	0.47148
2 Total Tetra-Furans	19.90	3.426e3	4.777e3	0.72	NO	1.5222	1.5222
3 Total Tetra-Furans	20.47	2.653e4	4.898e4	0.75	NO	1.524	15.524
4 Total Tetra-Furans	20.92	1.545e3	1.832e3	0.82	NO	2.63919	0.63639
5 Total Tetra-Furans	21.02	1.649e3	2.047e3	0.81	NO	0.85596	0.85599
6 Total Tetra-Furans	21.36	1.128e4	1.410e4	0.80	NO	4.7110	4.7110
7 Total Tetra-Furans	21.81	1.435e4	1.895e4	0.76	NO	6.1877	6.1877
8 Total Tetra-Furans	22.16	8.351e2	1.107e3	0.75	NO	0.36040	0.36040
9 Total Tetra-Furans	22.62	2.633e2	3.628e2	0.73	NO	0.11628	0.11628
10 Total Tetra-Furans	22.90	1.136e3	1.470e3	0.77	NO	0.48355	0.48355
11 Total Tetra-Furans	22.97	1.244e4	1.620e4	0.77	NO	5.3150	5.3150
12 Total Tetra-Furans	23.68	3.481e3	4.607e3	0.76	NO	1.5010	1.5010
13 Total Tetra-Furans	24.03	5.057e2	6.304e2	0.80	NO	0.21205	0.21205
14 Total Tetra-Furans	24.31	6.456e2	7.791e2	0.83	NO	0.26438	0.26438
15 Total Tetra-Furans	24.49	4.504e2	5.613e2	0.82	YES	0.19213	0.00000
16 Total Tetra-Furans	24.66	1.245e3	1.577e3	0.79	NO	0.52390	0.52390
17 2,3,7,8-TCDF	24.75	1.209e3	1.523e3	0.79	NO	0.50540	0.50540
18 Total Tetra-Furans	25.20	7.684e2	1.145e3	0.67	NO	0.38504	0.38504
19 Total Tetra-Furans	25.47	2.351e2	3.001e2	0.78	NO	0.099315	0.099315
20 Total Tetra-Furans	25.74	9.883e1	1.686e2	0.52	YES	0.042161	0.00000
21 Total Tetra-Furans	25.87	2.181e2	3.356e2	0.65	YES	0.093045	0.00000
22 Total Tetra-Furans	26.48	1.291e3	1.615e3	0.71	NO	0.57647	0.57647
23 Total Tetra-Furans	26.68	1.293e3	1.597e3	0.79	NO	0.53072	0.53072
24 Total Tetra-Furans	26.96	7.386e3	1.090e4	0.74	NO	3.2269	3.2269



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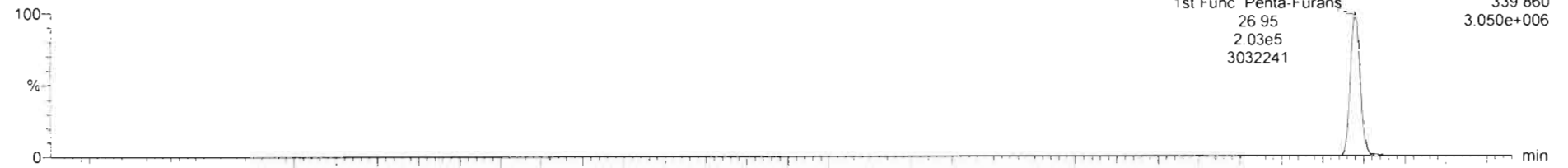
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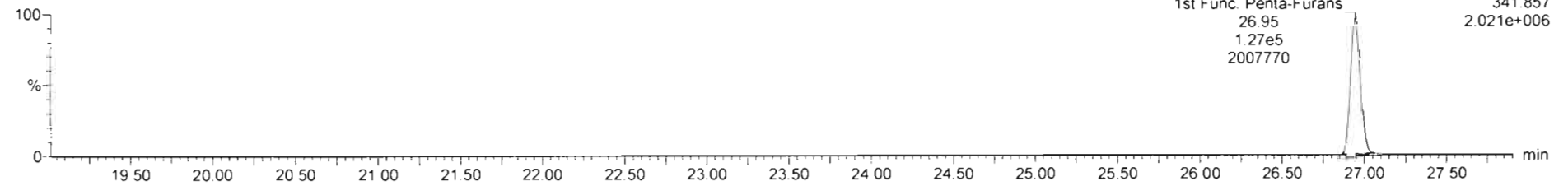
Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

1st Func. Penta-Furans

200319R2_10

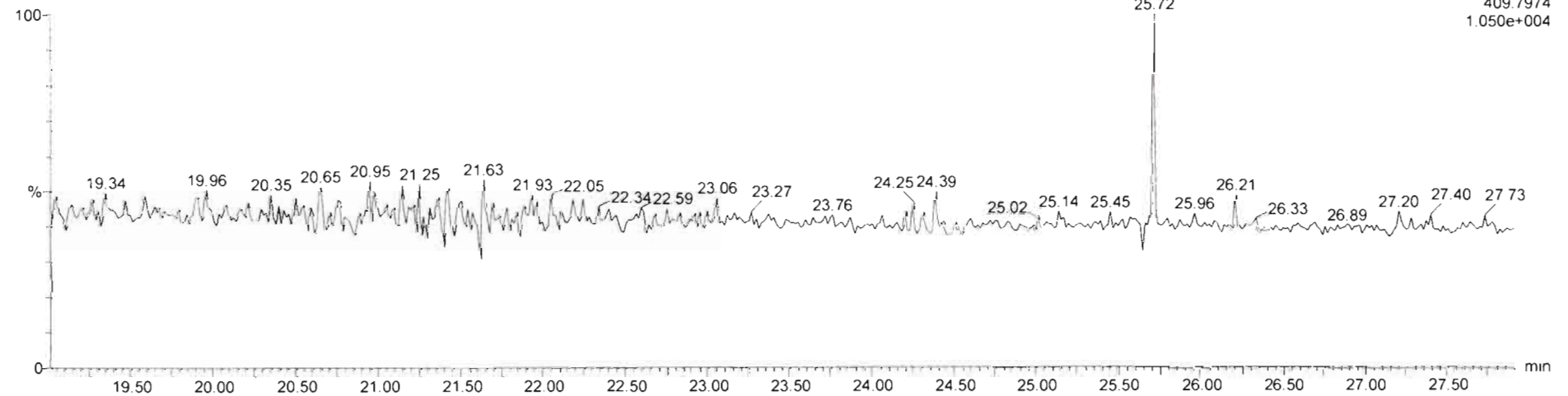


200319R2_10



DPE6

200319R2_10



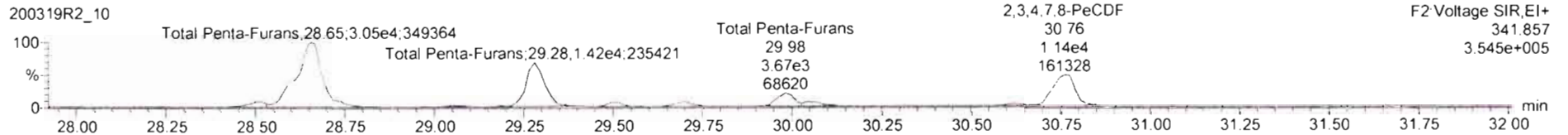
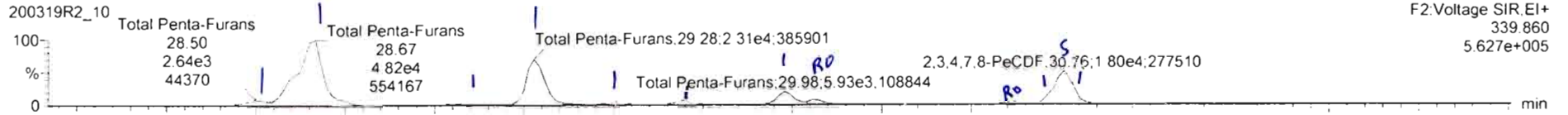
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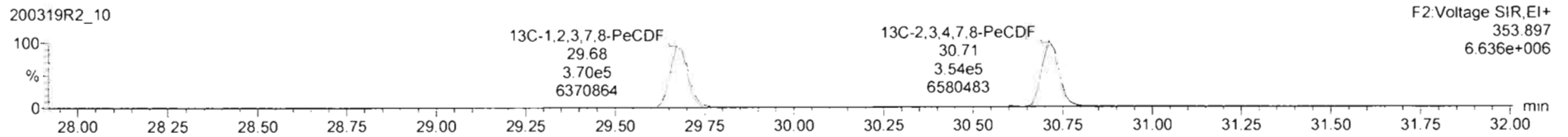
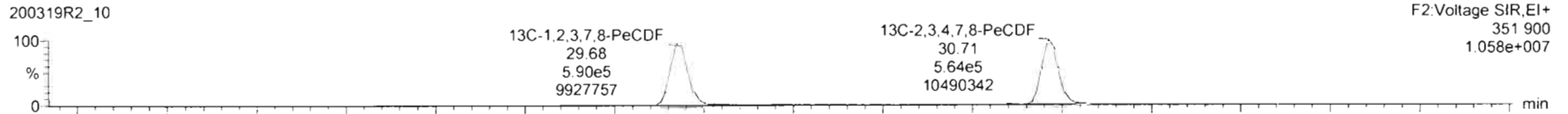
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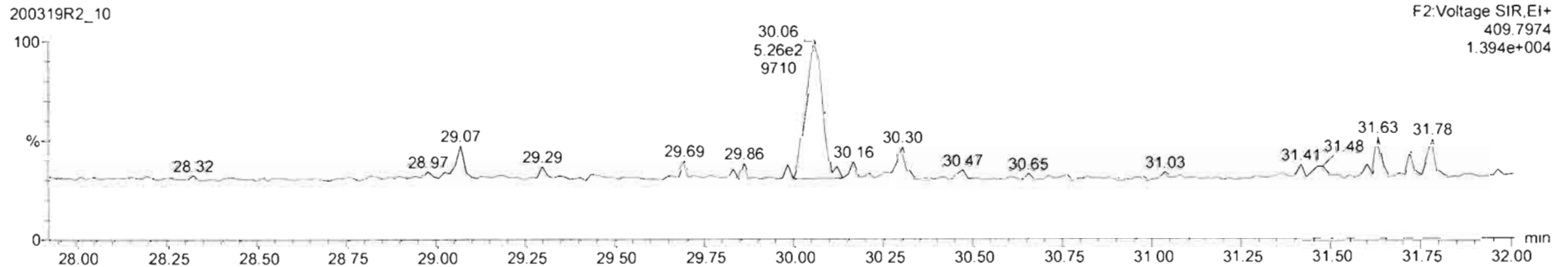
1,2,3,7,8-PeCDF



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



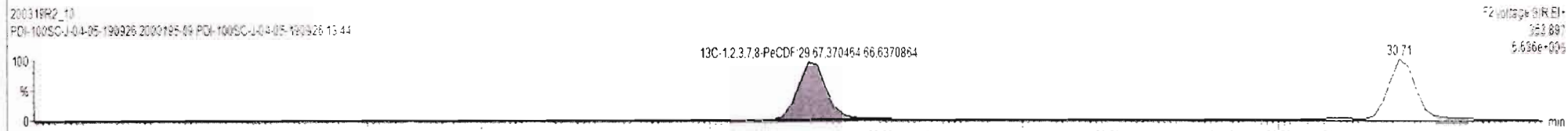
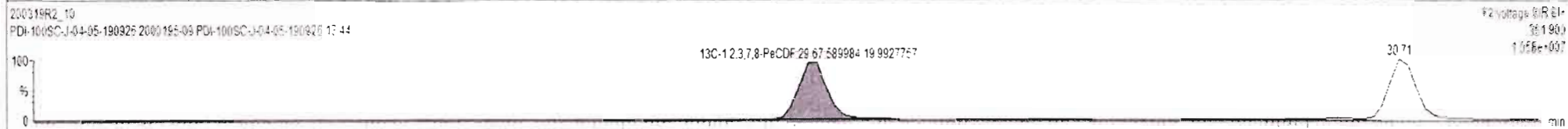
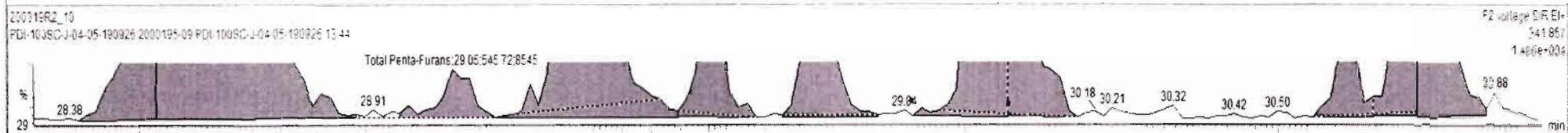
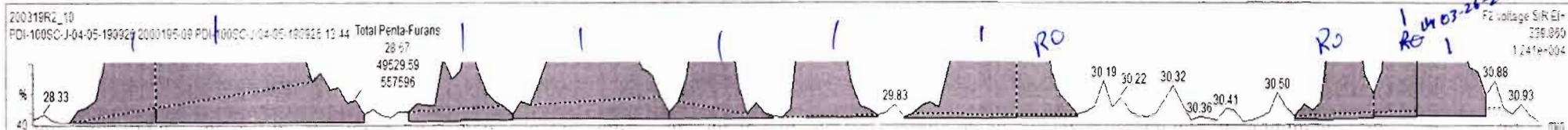
DPE2



200319R2_10 - 2000195-09 PDI-100SC-J-04-05-190926 13.44 - PDI-100SC-J-04-05-190926

Name	Resp	RA	n/y	RBF	wt%val	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.002			44.2		0.147	44.5
44 1st Func. Penta-Furans				0.5594	10.002			73.2		0.0479	73.2
45 Total Penta-Furans				0.5594	10.002			37.8		0.113	38.8
46 Total Hexa-Furans				1.0320	10.002			26.2		0.210	26.2
47 Total Hepta-Furans				1.0482	10.002			71.2		0.554	71.2

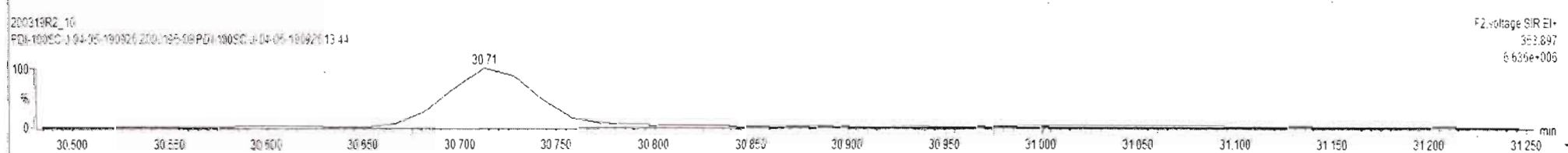
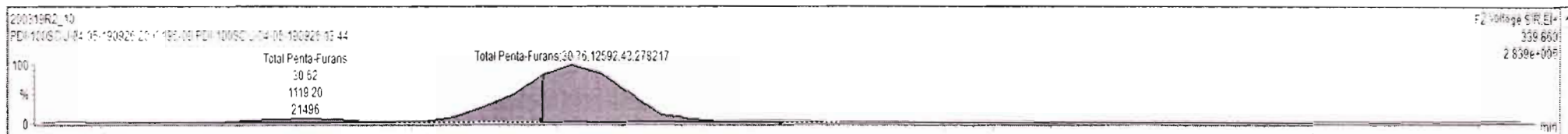
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.50	2.732e3	1.695e3	1.64	NO	0.95311	0.95311
2 Total Penta-Furans	28.67	4.953e4	3.050e4	1.62	NO	17.754	17.754
3 Total Penta-Furans	29.00	7.920e2	5.457e2	1.45	NO	0.29677	0.29677
4 Total Penta-Furans	29.28	2.372e4	1.474e4	1.61	NO	8.5306	8.5306
5 Total Penta-Furans	29.51	1.723e3	1.274e3	1.35	NO	0.66486	0.66486
6 1,2,3,7,8-PeCDF	29.71	2.289e3	1.526e3	1.50	NO	0.82782	0.82782
7 Total Penta-Furans	29.98	6.033e3	3.806e3	1.55	NO	2.1836	2.1836
8 Total Penta-Furans	30.06	1.744e3	1.508e3	1.16	YES	0.63637	0.00000
9 Total Penta-Furans	30.62	1.201e3	6.445e2	1.36	YES	0.36463	0.00000
10 2,3,4,7,8-PeCDF	30.74	5.514e3	3.736e3	1.48	NO	2.0069	2.0069
11 Total Penta-Furans	30.76	1.259e4	7.670e3	1.60	NO	4.5397	4.5397



200319R2_10 - 2000195-09 PDI-100SC-J-04-05-190926 13.44 - PDI-100SC-J-04-05-190926

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.002			44.2		0.147	44.5
44 1st Func. Penta-Furans				0.9594	10.002			73.2		0.0495	73.2
45 Total Penta-Furans				0.9594	10.002			36.1		0.113	37.9
46 Total Hexa-Furans				1.0920	10.002			292		0.230	292
47 Total Hepta-Furans				1.6483	10.002			712		0.554	712

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.50	2.640e2	1.695e2	1.56	NO	0.96160	0.96160
2 Total Penta-Furans	28.67	4.824e4	3.050e4	1.58	NO	17.489	17.489
3 Total Penta-Furans	29.06	5.237e2	5.953e2	0.88	YES	0.19114	0.00000
4 Total Penta-Furans	29.28	2.311e4	1.421e4	1.63	NO	8.2796	8.2796
5 Total Penta-Furans	29.51	1.454e3	1.202e3	1.21	YES	0.54164	0.00000
6 1,2,3,7,8-PeCDF	29.71	2.253e3	1.456e3	1.55	NO	0.80491	0.80491
7 Total Penta-Furans	29.96	5.934e2	3.667e2	1.62	NO	2.1300	2.1300
8 Total Penta-Furans	30.26	1.702e3	1.478e3	1.15	YES	0.62106	0.00000
9 Total Penta-Furans	30.62	1.119e2	6.165e2	1.82	YES	0.34877	0.00000
10 2,3,4,7,8-PeCDF	30.74	5.514e2	3.670e2	1.50	NO	1.9926	1.9926
11 Total Penta-Furans	30.76	1.259e4	7.743e3	1.63	NO	4.5115	4.5115



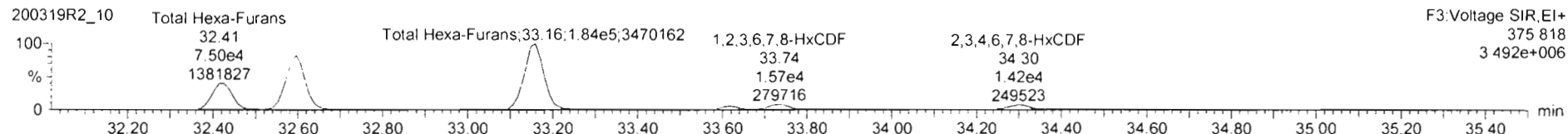
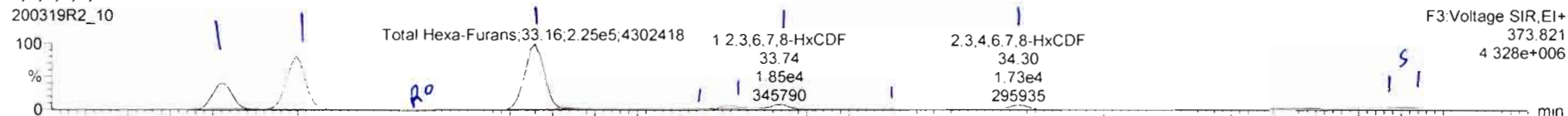
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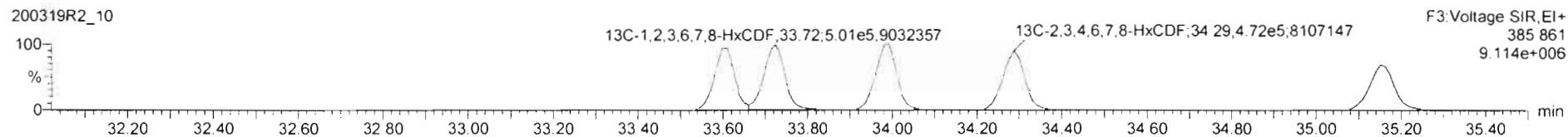
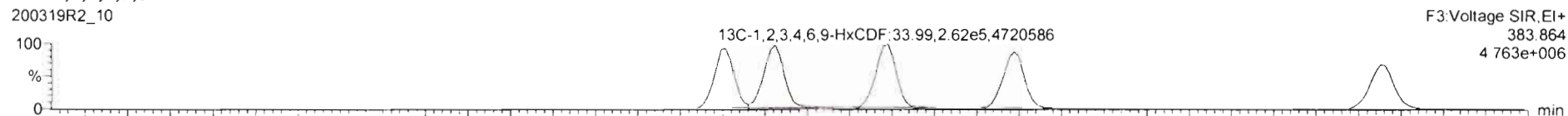
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Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

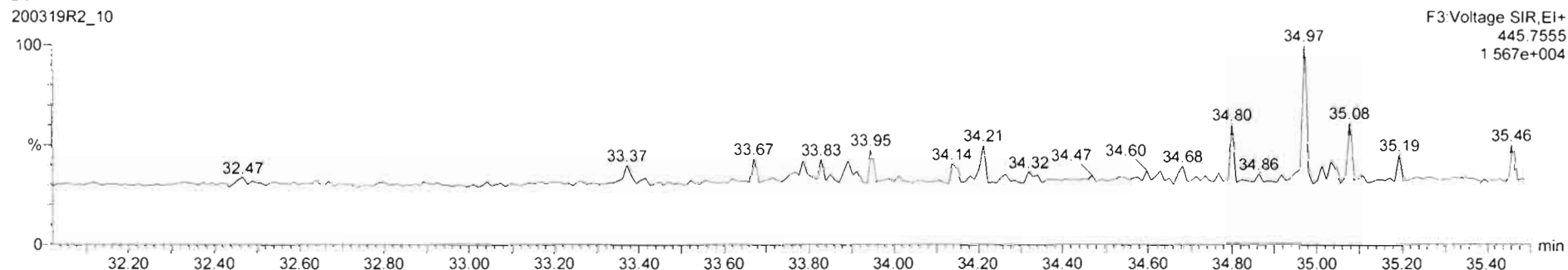
1,2,3,4,7,8-HxCDF



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



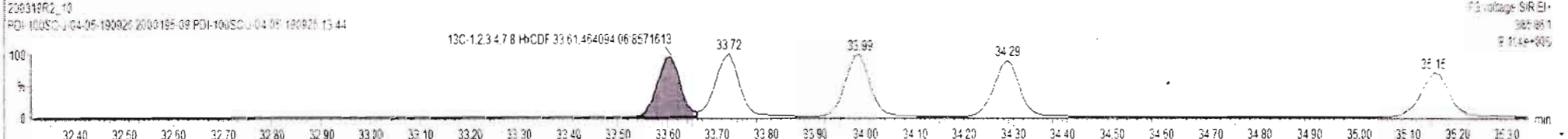
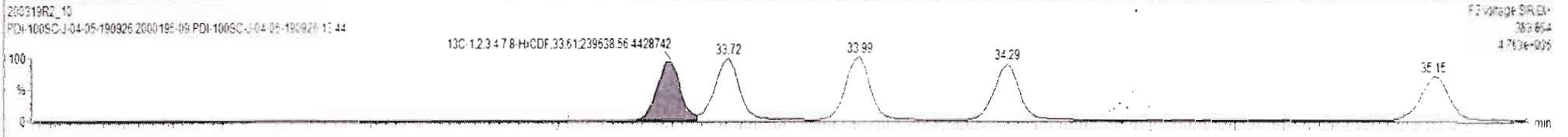
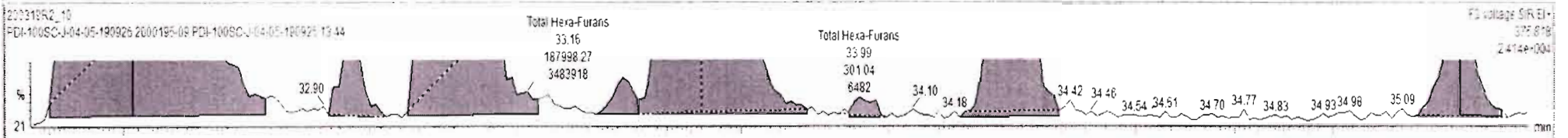
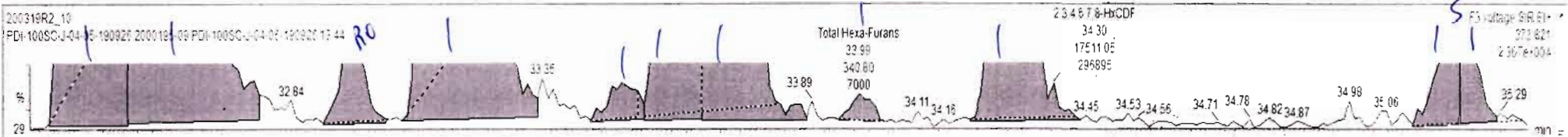
DPE3



200319R2_10 - 2000195-09 PDI-100SC-J-04-05-190926 13:44 - PDI-100SC-J-04-05-190926

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.002			44.2		0.147	44.5
44 1st Func. Penta-Furans				0.9594	10.002			71.2		0.0439	73.2
45 Total Penta-Furans				0.9594	10.002			37.8		0.113	38.8
46 Total Hexa-Furans				1.0920	10.002			268		0.230	268
47 Total Hepta-Furans				1.0483	10.002			712		0.554	712

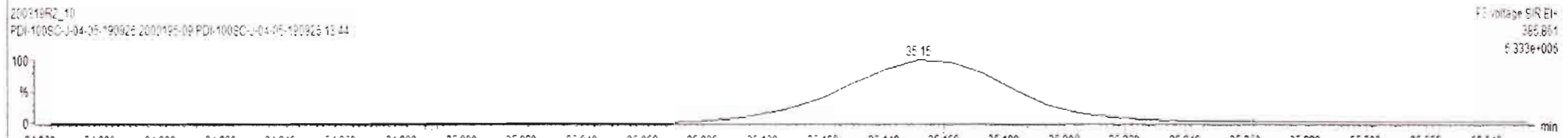
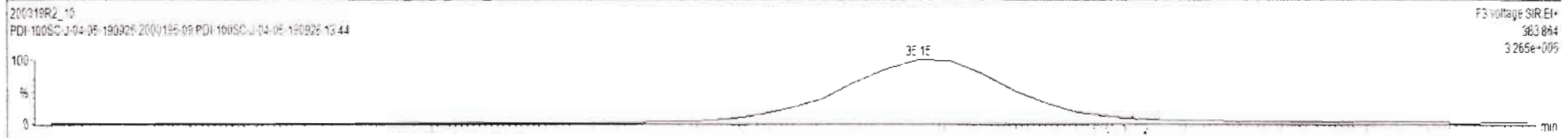
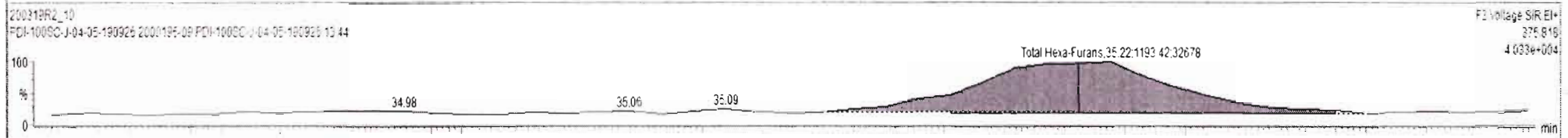
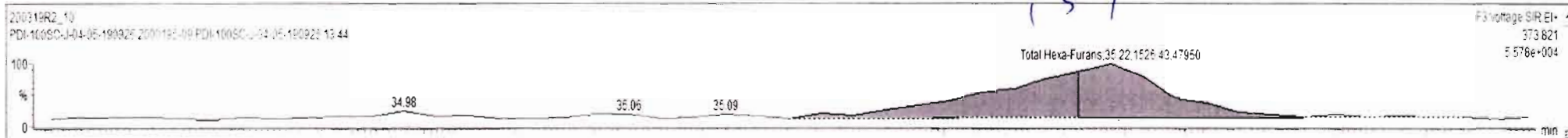
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.42	9.423e4	7.785e4	1.22	NO	44.905	44.905
2 Total Hexa-Furans	32.60	1.851e5	1.534e5	1.22	NO	89.273	89.273
3 Total Hexa-Furans	32.87	1.275e3	1.293e3	0.95	YES	0.60177	0.00000
4 Total Hexa-Furans	33.15	2.295e5	1.800e5	1.20	NO	103.84	103.84
5 Total Hexa-Furans	33.51	6.658e2	5.147e2	1.10	NO	0.10874	0.00074
6 1,2,3,4,7,8-HxCDF	33.62	1.074e4	9.218e3	1.16	NO	5.4618	5.4618
7 1,2,3,6,7,8-HxCDF	33.74	1.914e4	1.650e4	1.20	NO	9.0716	9.0716
8 Total Hexa-Furans	33.99	3.408e2	3.010e2	1.13	NO	0.16730	0.16730
9 2,3,4,6,7,8-HxCDF	34.30	1.751e4	1.454e4	1.26	NO	8.2290	8.2290
10 1,2,3,7,8,9-HxCDF	35.20	1.563e3	1.313e3	1.19	NO	0.88883	0.88883
11 Total Hexa-Furans	35.22	1.526e3	1.193e3	1.28	NO	0.70894	0.70894



200319R2_10 - 2000195-09 PDI-100SC-J-04-05-190926 13.44 - PDI-100SC-J-04-05-190926

Name	Resp	RA	nY	RBF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.5154	10.002			44.2		0.147	44.5
44 1st Func. Penta-Furans				0.5594	10.002			73.2		0.0409	73.2
45 Total Penta-Furans				0.5594	10.002			37.8		0.113	38.8
46 Total Hexa-Furans				1.0920	10.002			261		0.230	262
47 Total Hepta-Furans				1.0483	10.002			712		0.554	712

Name	RT	m1 Resp	m2 Resp	RA	nY	EMPC	Conc.
1 Total Hexa-Furans	32.42	5.167e4	7.503e4	1.22	NO	43.503	43.503
2 Total Hexa-Furans	32.80	1.835e5	1.493e5	1.23	NO	86.727	86.727
3 Total Hexa-Furans	32.97	1.227e3	1.200e3	0.96	YES	0.57790	0.00000
4 Total Hexa-Furans	33.16	2.253e5	1.845e5	1.22	NO	106.80	106.80
5 Total Hexa-Furans	33.51	5.730e2	5.147e2	1.12	NO	0.28402	0.28402
6 1,2,3,4,7,8-HxCDF	33.62	1.051e4	9.182e3	1.15	NO	5.4190	5.4190
7 1,2,3,6,7,8-HxCDF	33.74	1.846e4	1.566e4	1.18	NO	8.8394	8.8394
8 Total Hexa-Furans	33.99	2.287e2	2.878e2	1.14	NO	0.16070	0.16070
9 2,3,4,6,7,8-HxCDF	34.30	1.729e4	1.421e4	1.22	NO	8.0882	8.0882
10 1,2,3,7,8,9-HxCDF	35.20	1.562e3	1.291e2	1.21	NO	0.88211	0.88211
11 Total Hexa-Furans	35.22	1.526e3	1.193e2	1.28	NO	0.70894	0.70894



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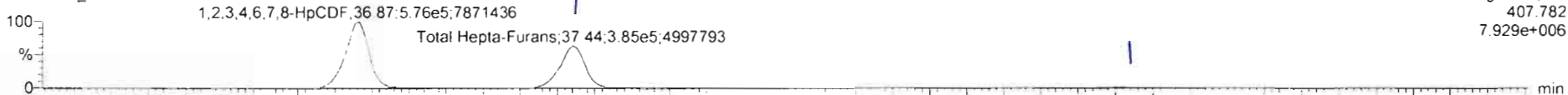
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Printed: Friday, March 20, 2020 13:07:43 Pacific Daylight Time

Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

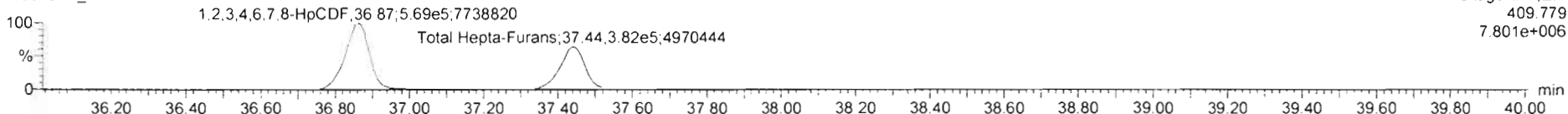
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200319R2_10



F4:Voltage SIR,EI+
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7.929e+006

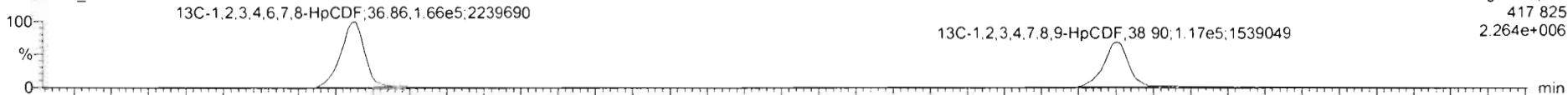
200319R2_10



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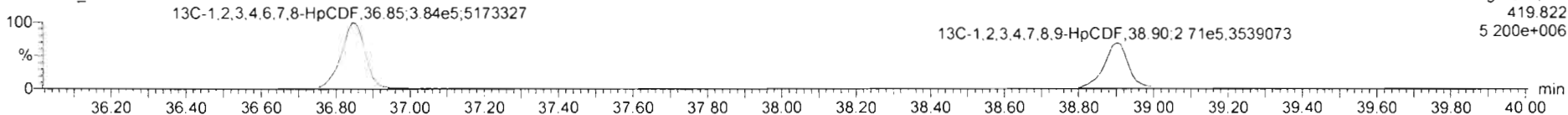
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200319R2_10



F4:Voltage SIR,EI+
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2.264e+006

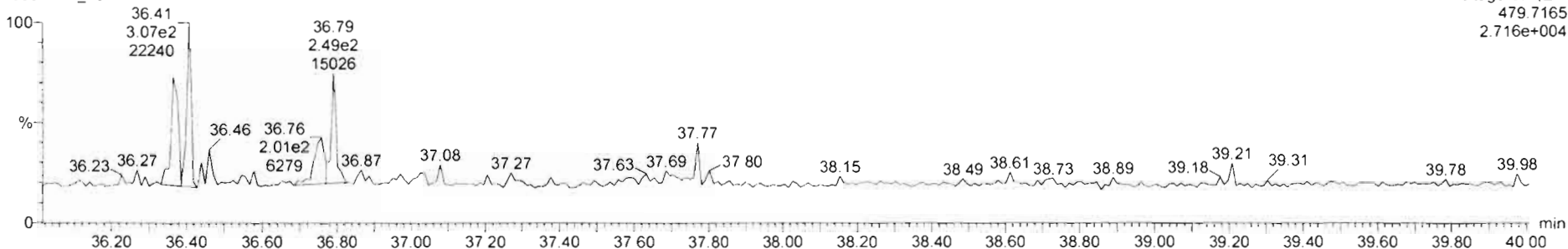
200319R2_10



F4:Voltage SIR,EI+
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5.200e+006

DPE4

200319R2_10

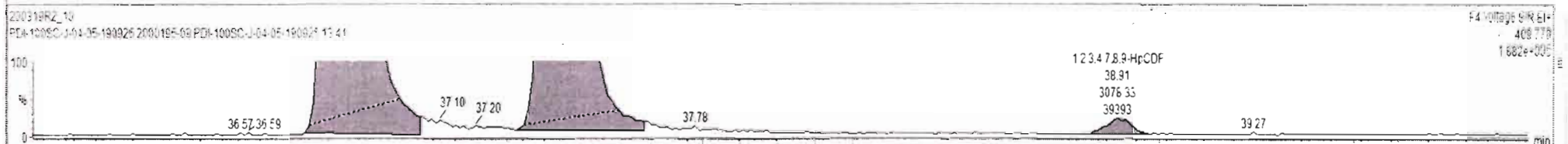
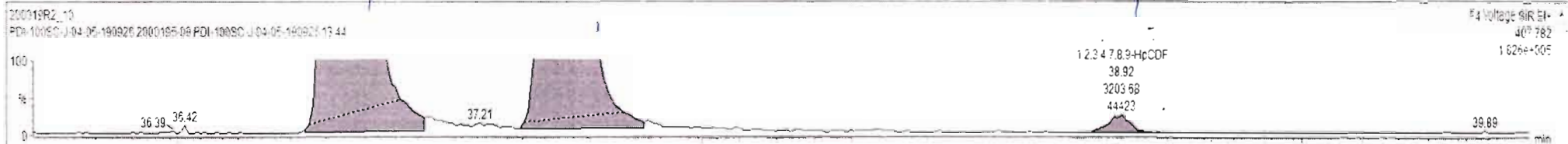


F4:Voltage SIR,EI+
479.7165
2.716e+004

200319R2_10 - 2000195-09 PDI-100SC-J-04-05-190926 13.44 - PDI-100SC-J-04-05-190926

Name	Resp	RA	n/y	RF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				1.0483	10.002			718		0.552	718
48 PF-K1											
49 PF-K2											
50 PF-K3											
51 PF-K4											

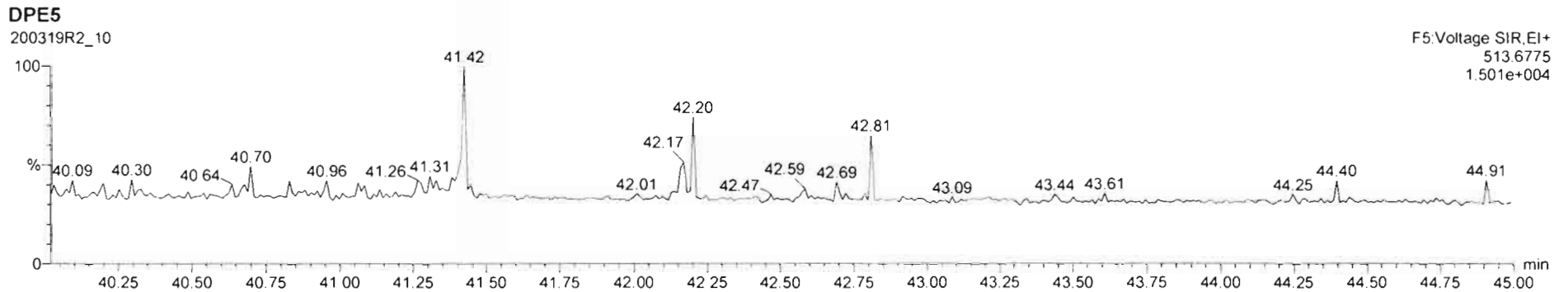
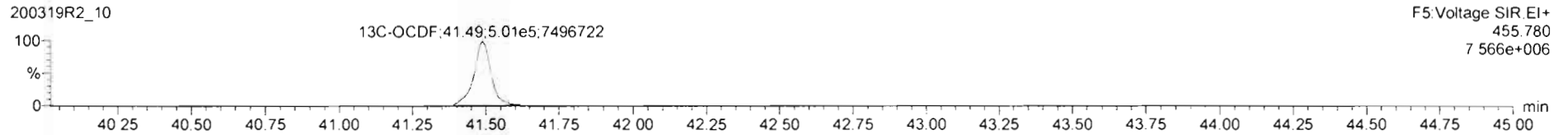
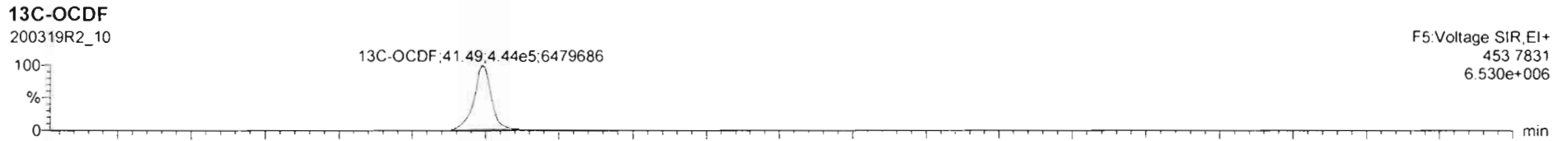
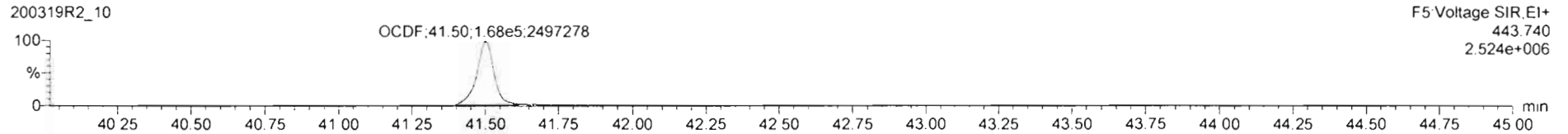
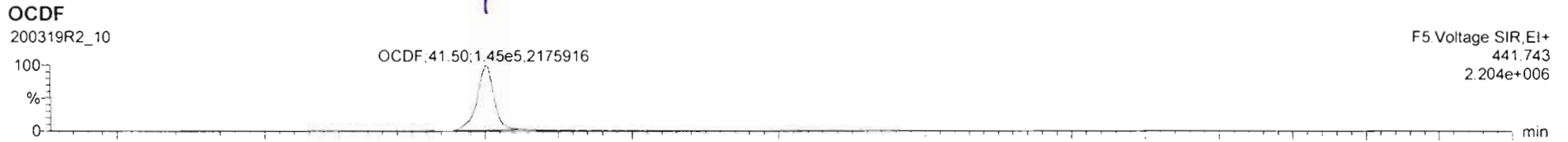
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.87	5.915e5	5.821e5	1.01	NO	399.25	399.65
2 Total Hepta-Furans	37.44	3.936e5	3.925e5	1.00	NO	315.82	315.83
3 1,2,3,4,7,8,9-HpCDF	38.92	3.204e3	3.078e3	1.04	NO	2.6791	2.6791



Dataset: Untitled

Last Altered: Friday, March 20, 2020 13:07:18 Pacific Daylight Time
Printed: Friday, March 20, 2020 13:07:43 Pacific Daylight Time

Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926



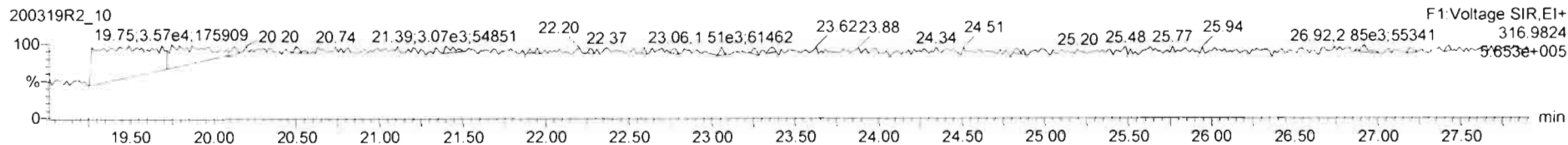
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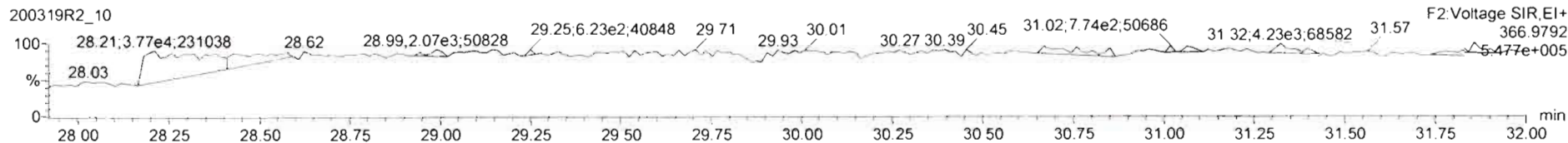
Printed: Friday, March 20, 2020 13:07:43 Pacific Daylight Time

Name: 200319R2_10, Date: 20-Mar-2020, Time: 12:19:28, ID: 2000195-09 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

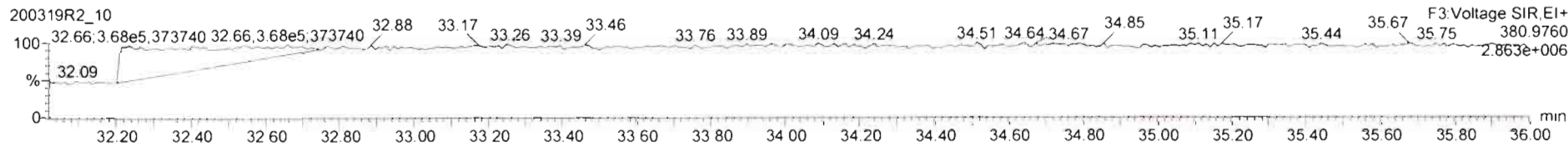
PFK1



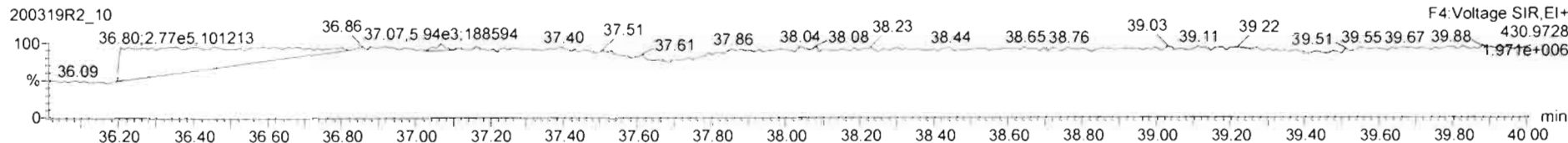
PFK2



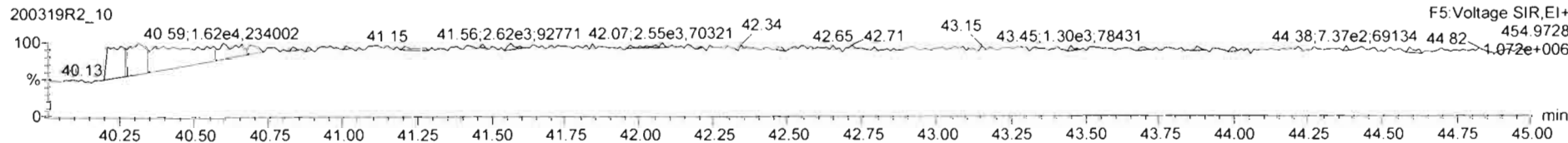
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200319R2\200319R2-9B.qld

Last Altered: Wednesday, April 01, 2020 14:15:06 Pacific Daylight Time

Printed: Wednesday, April 01, 2020 14:36:50 Pacific Daylight Time

BL 04/01/2020 for JP

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

CTO 4/10/2020

Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD												0.110	
2	2 1,2,3,7,8-PeCDD	1.78e3	0.61	NO	0.921	10.013	31.086	31.06	1.001	1.000	0.72872		0.126	0.729
3	3 1,2,3,4,7,8-HxCDD	8.88e2	1.16	NO	1.13	10.013	34.469	34.48	1.000	1.001	0.36869		0.143	0.369
4	4 1,2,3,6,7,8-HxCDD	1.08e4	1.23	NO	0.984	10.013	34.555	34.58	1.000	1.001	4.4363		0.149	4.44
5	5 1,2,3,7,8,9-HxCDD	3.59e3	1.36	NO	0.967	10.013	34.842	34.84	1.000	1.000	1.6190		0.171	1.62
6	6 1,2,3,4,6,7,8-HpCDD	1.35e5	1.05	NO	1.01	10.013	38.251	38.26	1.000	1.001	70.603		0.587	70.6
7	7 OCDD	1.65e6	0.88	NO	1.05	10.013	41.329	41.34	1.000	1.000	1083.1		0.530	1080
8	8 2,3,7,8-TCDF	1.46e3	0.70	NO	0.915	10.013	24.758	24.75	1.001	1.001	0.29431		0.178	0.294
9	9 1,2,3,7,8-PeCDF	2.41e3	1.41	NO	0.959	10.013	29.727	29.72	1.001	1.000	0.59400		0.155	0.594
10	10 2,3,4,7,8-PeCDF	7.78e3	1.54	NO	1.00	10.013	30.759	30.77	1.001	1.002	1.9633		0.149	1.96
11	11 1,2,3,4,7,8-HxCDF	1.45e4	1.20	NO	1.04	10.013	33.607	33.63	1.000	1.001	4.6030		0.218	4.60
12	12 1,2,3,6,7,8-HxCDF	1.77e4	1.23	NO	1.01	10.013	33.745	33.75	1.000	1.000	5.3808		0.222	5.38
13	13 2,3,4,6,7,8-HxCDF	1.99e4	1.27	NO	1.09	10.013	34.334	34.31	1.001	1.000	6.1098		0.224	6.11
14	14 1,2,3,7,8,9-HxCDF	1.02e3	1.34	NO	1.03	10.013	35.162	35.18	1.000	1.001	0.38029		0.302	0.380
15	15 1,2,3,4,6,7,8-HpCDF	1.33e6	1.00	NO	1.05	10.013	36.893	36.87	1.001	1.000	535.12		0.468	535
16	16 1,2,3,4,7,8,9-HpCDF	4.64e3	1.04	NO	1.21	10.013	38.901	38.91	1.000	1.000	2.4508		0.566	2.45
17	17 OCDF			NO	0.947	10.013	41.499		1.000				0.273	
18	18 13C-2,3,7,8-TCDD	7.61e5	0.79	NO	1.18	10.013	25.735	25.75	1.029	1.029	185.18	92.7	0.255	
19	19 13C-1,2,3,7,8-PeCDD	5.31e5	0.65	NO	0.864	10.013	30.919	31.06	1.236	1.242	176.94	88.6	0.223	
20	20 13C-1,2,3,4,7,8-HxCDD	4.25e5	1.28	NO	0.754	10.013	34.463	34.46	1.014	1.014	164.47	82.3	0.423	
21	21 13C-1,2,3,6,7,8-HxCDD	4.94e5	1.29	NO	0.925	10.013	34.572	34.56	1.017	1.017	155.72	78.0	0.345	
22	22 13C-1,2,3,7,8,9-HxCDD	4.58e5	1.26	NO	0.829	10.013	34.834	34.83	1.025	1.025	160.97	80.6	0.385	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.80e5	1.06	NO	0.598	10.013	38.294	38.24	1.127	1.125	185.11	92.7	0.532	
24	24 13C-OCDD	5.80e5	0.91	NO	0.571	10.013	41.445	41.33	1.219	1.216	296.43	74.2	0.460	
25	25 13C-2,3,7,8-TCDF	1.09e6	0.79	NO	1.09	10.013	24.757	24.73	0.990	0.989	172.66	86.4	0.356	
26	26 13C-1,2,3,7,8-PeCDF	8.43e5	1.58	NO	0.876	10.013	29.590	29.71	1.183	1.187	166.80	83.5	0.539	
27	27 13C-2,3,4,7,8-PeCDF	7.89e5	1.59	NO	0.844	10.013	30.601	30.73	1.223	1.228	162.14	81.2	0.560	
28	28 13C-1,2,3,4,7,8-HxCDF	6.06e5	0.51	NO	1.00	10.013	33.610	33.61	0.989	0.989	176.68	88.5	0.429	
29	29 13C-1,2,3,6,7,8-HxCDF	6.51e5	0.52	NO	1.12	10.013	33.719	33.74	0.992	0.993	169.78	85.0	0.384	
30	30 13C-2,3,4,6,7,8-HxCDF	5.96e5	0.52	NO	1.04	10.013	34.300	34.30	1.009	1.009	168.07	84.1	0.415	
31	31 13C-1,2,3,7,8,9-HxCDF	5.20e5	0.52	NO	0.873	10.013	35.174	35.16	1.035	1.035	173.66	86.9	0.492	

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-9B.qld

Last Altered: Wednesday, April 01, 2020 14:15:06 Pacific Daylight Time

Printed: Wednesday, April 01, 2020 14:36:50 Pacific Daylight Time

Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.72e5	0.44	NO	0.771	10.013	36.890	36.86	1.085	1.084	178.63	89.4	0.432	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.13e5	0.44	NO	0.519	10.013	38.977	38.90	1.147	1.144	175.68	88.0	0.642	
34	34 13C-OCDF	7.32e5	0.90	NO	0.696	10.013	41.625	41.50	1.225	1.221	306.87	76.8	0.407	
35	35 37Cl-2,3,7,8-TCDD	2.93e5			1.17	10.013	25.745	25.76	1.029	1.030	71.908	90.0	0.0865	
36	36 13C-1,2,3,4-TCDD	6.93e5	0.80	NO	1.00	10.013	25.050	25.02	1.000	1.000	199.74	100	0.302	
37	37 13C-1,2,3,4-TCDF	1.15e6	0.80	NO	1.00	10.013	23.190	23.07	1.000	1.000	199.74	100	0.387	
38	38 13C-1,2,3,4,6,9-HxCDF	6.85e5	0.52	NO	1.00	10.013	33.880	33.99	1.000	1.000	199.74	100	0.429	
39	39 Total Tetra-Dioxins				0.983	10.013	24.620		0.000		0.68154		0.110	1.56
40	40 Total Penta-Dioxins				0.921	10.013	29.960		0.000		8.0777		0.126	8.42
41	41 Total Hexa-Dioxins				0.984	10.013	33.635		0.000		38.577		0.160	38.8
42	42 Total Hepta-Dioxins				1.01	10.013	37.640		0.000		164.81		0.587	165
43	43 Total Tetra-Furans				0.915	10.013	23.610		0.000		24.845		0.178	26.6 p
44	44 1st Func. Penta-Furans				0.959	10.013	27.090		0.000		48.092		0.0590	48.1
45	45 Total Penta-Furans				0.959	10.013	29.275		0.000		25.856		0.155	26.7 p
46	46 Total Hexa-Furans				1.09	10.013	33.555		0.000		250.14		0.228	251
47	47 Total Hepta-Furans				1.05	10.013	37.835		0.000		946.55		0.542	947

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-9B.qld

Last Altered: Wednesday, April 01, 2020 14:15:06 Pacific Daylight Time
 Printed: Wednesday, April 01, 2020 14:36:50 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
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Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.40	9.326e3	1.088e4	6.634e2	9.356e2	0.71	NO	1.599e3	0.42670	0.42700	0.110
2	Total Tetra-Dioxins	21.80	6.884e3	6.105e3	4.647e2	4.998e2	0.93	YES	0.000e0	0.00000	0.23600	0.110
3	Total Tetra-Dioxins	22.26	3.473e3	2.902e3	2.148e2	1.698e2	1.26	YES	0.000e0	0.00000	0.080000	0.110
4	Total Tetra-Dioxins	23.31	3.815e3	5.037e3	3.071e2	3.845e2	0.80	NO	0.000e0	0.00000	0.18500	0.110
5	Total Tetra-Dioxins	23.58	3.745e3	4.048e3	2.820e2	3.163e2	0.89	YES	0.000e0	0.00000	0.14900	0.110
6	Total Tetra-Dioxins	23.83	6.622e3	5.621e3	4.827e2	4.866e2	0.99	YES	0.000e0	0.00000	0.23000	0.110
7	Total Tetra-Dioxins	24.57	2.962e3	3.661e3	2.358e2	3.275e2	0.72	NO	5.634e2	0.15034	0.15000	0.110
8	Total Tetra-Dioxins	26.12	2.546e3	3.295e3	1.561e2	2.355e2	0.66	NO	3.916e2	0.10450	0.10500	0.110

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.75	3.789e4	5.216e4	2.685e3	4.394e3	0.61	NO	7.078e3	2.8912	2.8910	0.126
2	Total Penta-Dioxins	29.78	2.255e4	3.889e4	1.495e3	2.184e3	0.69	NO	3.679e3	1.5027	1.5030	0.126
3	Total Penta-Dioxins	29.95	2.162e4	2.265e4	8.525e2	1.421e3	0.60	NO	2.273e3	0.92851	0.92900	0.126
4	Total Penta-Dioxins	30.04	9.371e3	1.548e4	5.772e2	9.079e2	0.64	NO	1.485e3	0.60661	0.60700	0.126
5	Total Penta-Dioxins	30.29	1.229e4	2.228e4	1.056e3	1.788e3	0.59	NO	2.845e3	1.1619	1.1620	0.126
6	1,2,3,7,8-PeCDD	31.06	1.101e4	2.288e4	6.782e2	1.106e3	0.61	NO	1.784e3	0.72872	0.72900	0.126
7	Total Penta-Dioxins	31.16	6.167e3	8.269e3	2.609e2	3.709e2	0.70	NO	6.317e2	0.25804	0.25800	0.126
8	Total Penta-Dioxins	31.48	7.645e3	1.157e4	3.801e2	5.166e2	0.74	YES	0.000e0	0.00000	0.34400	0.126

Dataset: U:\WG12.PRO\Results\200319R2\200319R2-9B.qld

Last Altered: Wednesday, April 01, 2020 14:15:06 Pacific Daylight Time

Printed: Wednesday, April 01, 2020 14:36:50 Pacific Daylight Time

Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.00	2.923e5	2.246e5	1.443e4	1.133e4	1.27	NO	2.577e4	11.393	11.393	0.160
2	Total Hexa-Dioxins	33.56	3.105e4	2.973e4	1.866e3	1.595e3	1.17	NO	3.461e3	1.5303	1.5300	0.160
3	Total Hexa-Dioxins	33.82	4.062e5	3.151e5	2.406e4	1.943e4	1.24	NO	4.349e4	19.230	19.230	0.160
4	1,2,3,4,7,8-HxCDD	34.48	9.876e3	9.560e3	4.769e2	4.116e2	1.16	NO	8.885e2	0.36869	0.36900	0.143
5	1,2,3,6,7,8-HxCDD	34.58	1.082e5	8.498e4	5.964e3	4.836e3	1.23	NO	1.080e4	4.4363	4.4360	0.149
6	Total Hexa-Dioxins	34.75	7.190e3	6.965e3	2.692e2	2.866e2	0.94	YES	0.000e0	0.00000	0.21500	0.160
7	1,2,3,7,8,9-HxCDD	34.84	3.054e4	2.415e4	2.069e3	1.519e3	1.36	NO	3.588e3	1.6190	1.6190	0.171

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.25	1.239e6	1.202e6	9.127e4	8.883e4	1.03	NO	1.801e5	94.202	94.202	0.587
2	1,2,3,4,6,7,8-HpCDD	38.26	8.733e5	8.372e5	6.904e4	6.595e4	1.05	NO	1.350e5	70.603	70.603	0.587

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-9B.qld

Last Altered: Wednesday, April 01, 2020 14:15:06 Pacific Daylight Time

Printed: Wednesday, April 01, 2020 14:36:50 Pacific Daylight Time

Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	19.39	6.630e3	1.071e4	4.939e2	7.017e2	0.70	NO	1.196e3	0.24039	0.24000	0.178
2	Total Tetra-Furans	19.88	2.617e4	3.324e4	2.267e3	2.728e3	0.83	NO	4.995e3	1.0043	1.0040	0.178
3	Total Tetra-Furans	20.47	2.225e5	2.910e5	1.886e4	2.450e4	0.77	NO	4.336e4	8.7176	8.7180	0.178
4	Total Tetra-Furans	20.90	1.089e4	1.338e4	1.261e3	1.424e3	0.89	YES	0.000e0	0.00000	0.50700	0.178
5	Total Tetra-Furans	20.99	9.176e3	8.643e3	6.178e2	5.981e2	1.03	YES	0.000e0	0.00000	0.21300	0.178
6	Total Tetra-Furans	21.35	6.688e4	8.041e4	6.142e3	7.546e3	0.81	NO	1.369e4	2.7522	2.7520	0.178
7	Total Tetra-Furans	21.81	7.638e4	1.069e5	7.462e3	1.006e4	0.74	NO	1.752e4	3.5233	3.5230	0.178
8	Total Tetra-Furans	22.17	6.806e3	6.641e3	5.790e2	5.828e2	0.99	YES	0.000e0	0.00000	0.20700	0.178
9	Total Tetra-Furans	22.79	8.462e3	1.160e4	6.523e2	6.612e2	0.99	YES	0.000e0	0.00000	0.23500	0.178
10	Total Tetra-Furans	22.98	4.959e4	7.311e4	5.827e3	7.398e3	0.79	NO	1.322e4	2.6590	2.6590	0.178
11	Total Tetra-Furans	23.12	6.733e3	9.509e3	3.938e2	5.045e2	0.78	NO	8.983e2	0.18062	0.18100	0.178
12	Total Tetra-Furans	23.79	1.759e4	2.729e4	2.691e3	3.716e3	0.72	NO	6.407e3	1.2883	1.2880	0.178
13	Total Tetra-Furans	24.01	3.889e3	3.290e3	3.927e2	3.673e2	1.07	YES	0.000e0	0.00000	0.13100	0.178
14	Total Tetra-Furans	24.25	5.612e3	4.086e3	4.028e2	4.036e2	1.00	YES	0.000e0	0.00000	0.14400	0.178
15	Total Tetra-Furans	24.51	4.109e3	4.338e3	2.611e2	3.570e2	0.73	NO	6.182e2	0.12429	0.12400	0.178
16	Total Tetra-Furans	24.64	1.254e4	1.016e4	7.135e2	7.580e2	0.94	YES	0.000e0	0.00000	0.27000	0.178
17	2,3,7,8-TCDF	24.75	7.437e3	1.223e4	6.034e2	8.603e2	0.70	NO	1.464e3	0.29431	0.29400	0.178
18	Total Tetra-Furans	25.20	5.161e3	5.979e3	4.244e2	5.070e2	0.84	NO	9.314e2	0.18728	0.18700	0.178
19	Total Tetra-Furans	25.87	4.289e3	6.709e3	2.933e2	4.113e2	0.71	NO	7.046e2	0.14167	0.14200	0.178
20	Total Tetra-Furans	26.53	2.542e4	3.321e4	1.680e3	2.134e3	0.79	NO	3.814e3	0.76683	0.76700	0.178
21	Total Tetra-Furans	26.68	2.753e4	3.481e4	1.997e3	2.335e3	0.86	NO	4.332e3	0.87100	0.87100	0.178
22	Total Tetra-Furans	26.98	6.791e4	8.600e4	4.560e3	5.852e3	0.78	NO	1.041e4	2.0935	2.0930	0.178

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	26.98	1.776e6	1.083e6	1.165e5	7.208e4	1.62	NO	1.886e5	48.092	48.092	0.0590

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-9B.qld

Last Altered: Wednesday, April 01, 2020 14:15:06 Pacific Daylight Time

Printed: Wednesday, April 01, 2020 14:36:50 Pacific Daylight Time

Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.53	2.576e4	2.090e4	1.668e3	1.280e3	1.30	YES	0.000e0	0.00000	0.70000	0.155
2	Total Penta-Furans	28.68	3.037e5	2.055e5	2.694e4	1.728e4	1.56	NO	4.422e4	11.278	11.278	0.155
3	Total Penta-Furans	29.08	6.714e3	4.646e3	4.532e2	3.763e2	1.20	YES	0.000e0	0.00000	0.19000	0.155
4	Total Penta-Furans	29.31	2.309e5	1.510e5	1.488e4	9.702e3	1.53	NO	2.459e4	6.2703	6.2700	0.155
5	Total Penta-Furans	29.52	2.006e4	1.455e4	1.245e3	7.560e2	1.65	NO	2.001e3	0.51033	0.51000	0.155
6	1,2,3,7,8-PeCDF	29.72	2.373e4	2.279e4	1.408e3	9.988e2	1.41	NO	2.407e3	0.59400	0.59400	0.155
7	Total Penta-Furans	30.01	6.642e4	3.956e4	3.200e3	2.104e3	1.52	NO	5.305e3	1.3529	1.3530	0.155
8	Total Penta-Furans	30.09	5.610e4	3.509e4	3.248e3	2.029e3	1.60	NO	5.277e3	1.3458	1.3460	0.155
9	Total Penta-Furans	30.33	6.856e3	4.081e3	3.179e2	2.208e2	1.44	NO	5.387e2	0.13738	0.13700	0.155
10	Total Penta-Furans	30.65	1.000e4	6.552e3	4.939e2	3.681e2	1.34	NO	8.620e2	0.21983	0.22000	0.155
11	2,3,4,7,8-PeCDF	30.77	1.290e5	7.965e4	4.721e3	3.063e3	1.54	NO	7.784e3	1.9633	1.9630	0.149
12	Total Penta-Furans	30.79	1.362e5	8.186e4	5.092e3	3.068e3	1.66	NO	8.160e3	2.0811	2.0810	0.155
13	Total Penta-Furans	31.63	5.651e3	3.315e3	2.383e2	1.656e2	1.44	NO	4.039e2	0.10299	0.10300	0.155

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.44	1.501e6	1.257e6	7.588e4	6.264e4	1.21	NO	1.385e5	42.722	42.722	0.228
2	Total Hexa-Furans	32.61	3.079e6	2.400e6	1.452e5	1.173e5	1.24	NO	2.625e5	80.951	80.951	0.228
3	Total Hexa-Furans	32.98	1.823e4	1.487e4	8.673e2	7.202e2	1.20	NO	1.587e3	0.48957	0.49000	0.228
4	Total Hexa-Furans	33.17	3.803e6	3.152e6	1.953e5	1.598e5	1.22	NO	3.551e5	109.50	109.50	0.228
5	Total Hexa-Furans	33.52	1.387e4	9.237e3	7.875e2	4.928e2	1.60	YES	0.000e0	0.00000	0.34000	0.228
6	1,2,3,4,7,8-HxCDF	33.63	1.475e5	1.267e5	7.898e3	6.592e3	1.20	NO	1.449e4	4.6030	4.6030	0.218
7	1,2,3,6,7,8-HxCDF	33.75	1.714e5	1.544e5	9.772e3	7.973e3	1.23	NO	1.774e4	5.3808	5.3810	0.222
8	2,3,4,6,7,8-HxCDF	34.31	2.107e5	1.636e5	1.114e4	8.782e3	1.27	NO	1.992e4	6.1098	6.1100	0.224
9	1,2,3,7,8,9-HxCDF	35.18	1.913e4	1.864e4	5.825e2	4.335e2	1.34	NO	1.016e3	0.38029	0.38000	0.302
10	Total Hexa-Furans	35.22	2.888e4	2.320e4	1.520e3	1.203e3	1.26	NO	0.000e0	0.00000	0.84000	0.228

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-9B.qld

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Printed: Wednesday, April 01, 2020 14:36:50 Pacific Daylight Time

Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

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	36.87	9.721e6	9.612e6	6.644e5	6.610e5	1.00	NO	1.325e6	535.12	535.12	0.468
2	Total Hepta-Furans	37.45	5.847e6	5.695e6	4.236e5	4.185e5	1.01	NO	8.421e5	408.98	408.98	0.542
3	1,2,3,4,7,8,9-HpCDF	38.91	3.771e4	3.832e4	2.362e3	2.280e3	1.04	NO	4.642e3	2.4508	2.4510	0.566

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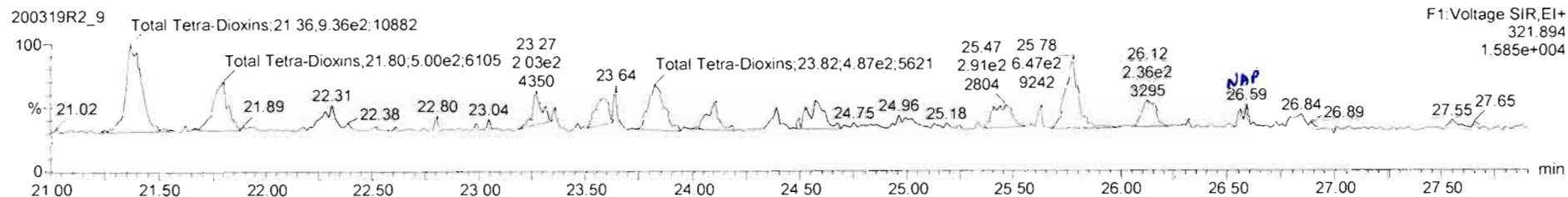
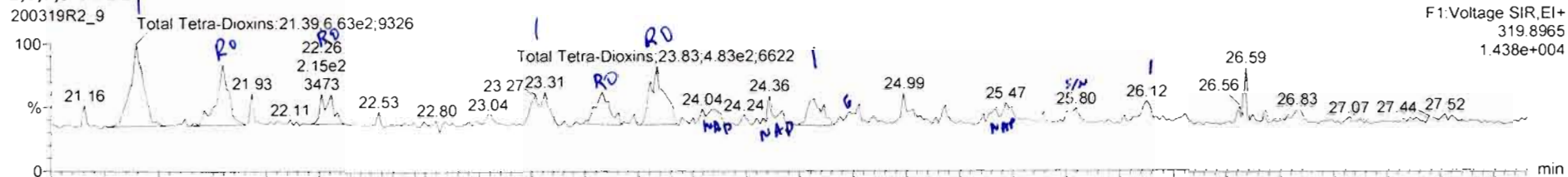
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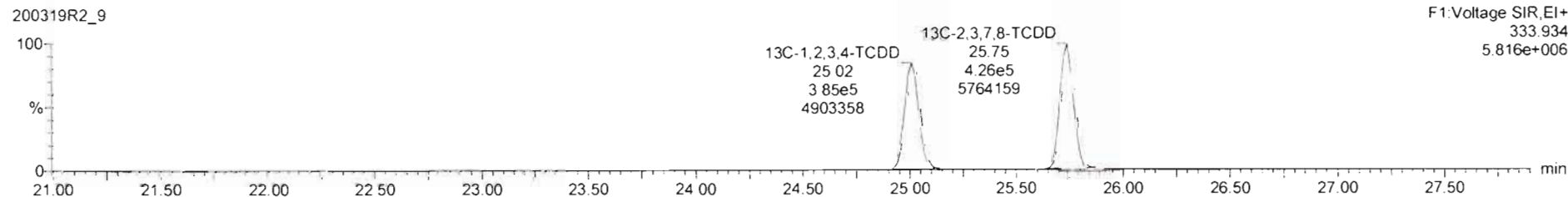
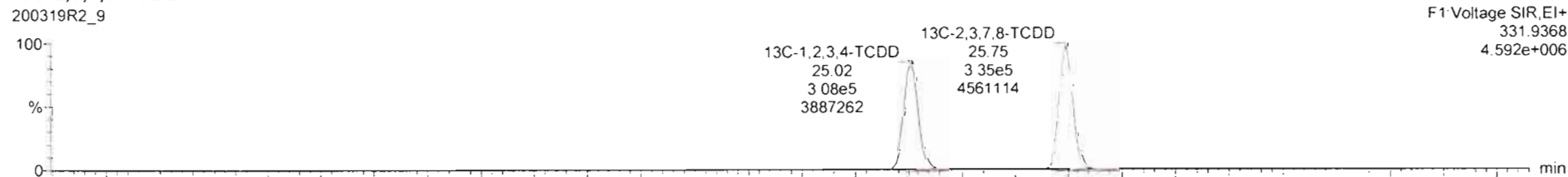
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Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

2,3,7,8-TCDD

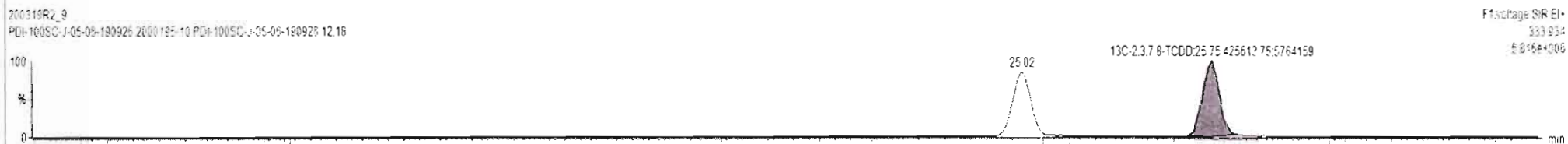
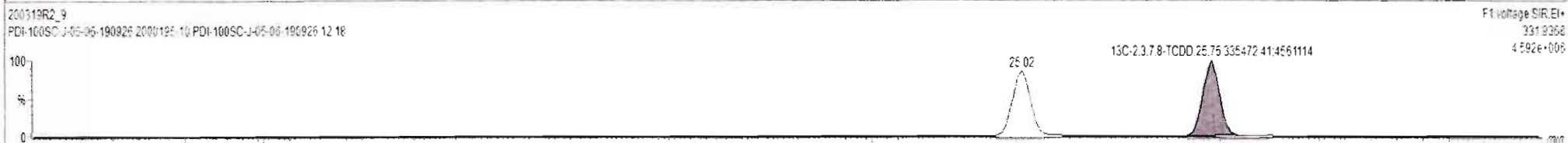
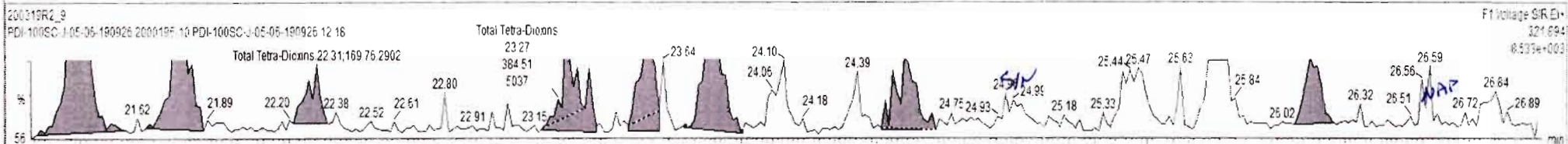
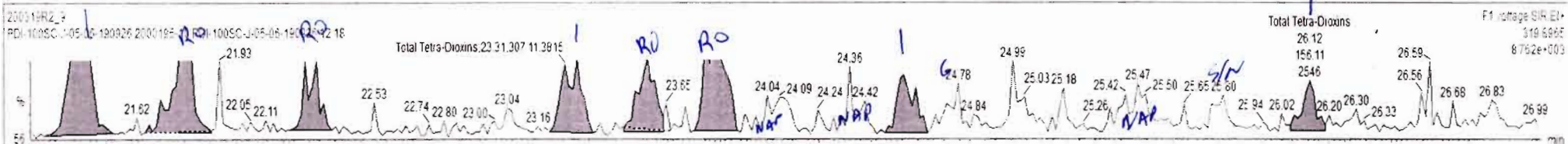


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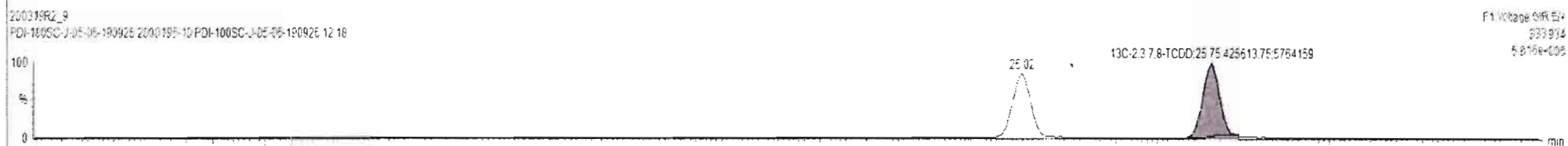
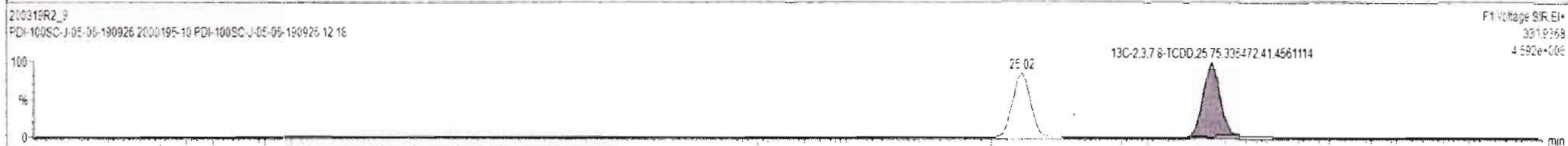
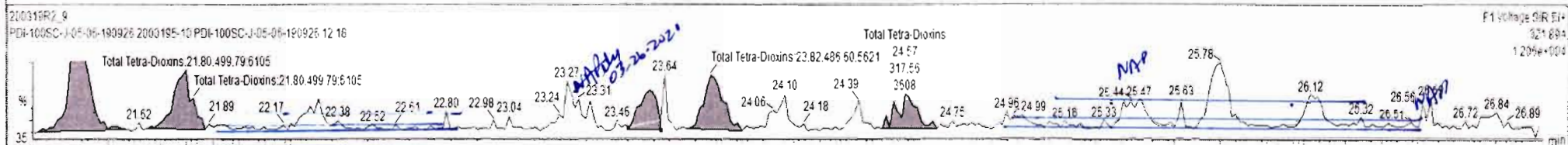
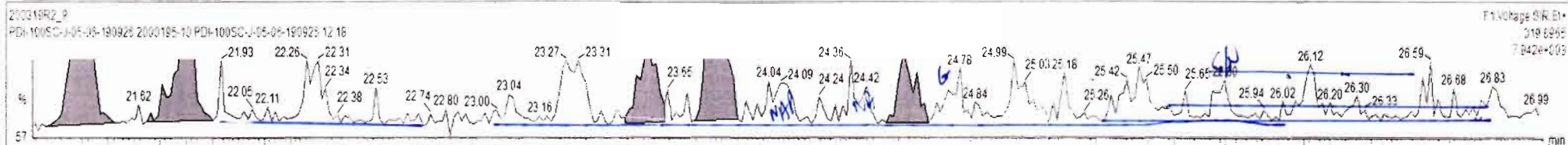
Name	Resp	RA	n/y	RF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.013			0.680		0.110	1.56
40 Total Penta-Dioxins				0.6212	10.013			7.97		0.126	8.44
41 Total Hexa-Dioxins				0.9844	10.013			38.0		0.160	38.2
42 Total Hepta-Dioxins				1.0061	10.012			160		0.583	150
43 Total Tetra-Furans				0.9154	10.012			23.4		0.178	26.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	21.40	6.624e2	9.356e2	0.71	NO	0.42670	0.42670
2 Total Tetra-Dioxins	21.80	4.647e2	4.956e2	0.93	YES	0.23607	0.00000
3 Total Tetra-Dioxins	22.26	2.148e2	1.696e2	1.27	YES	0.080182	0.00000
4 Total Tetra-Dioxins	23.31	3.071e2	3.845e2	0.80	NO	0.18456	0.00000
5 Total Tetra-Dioxins	23.58	2.820e2	2.163e2	0.89	YES	0.14929	0.00000
6 Total Tetra-Dioxins	23.82	4.827e2	4.668e2	0.99	YES	0.22984	0.00000
7 Total Tetra-Dioxins	24.57	2.353e2	2.275e2	0.72	NO	0.15934	0.15934
8 Total Tetra-Dioxins	25.12	1.561e2	2.284e2	0.68	NO	0.10261	0.10261



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.013			0.574		0.110	1.16
40 Total Penta-Dioxins				0.5212	10.013			7.57		0.126	2.54
41 Total Hexa-Dioxins				0.9844	10.013			36.0		0.150	36.2
42 Total Hepta-Dioxins				1.0061	10.013			150		0.583	150
43 Total Tetra-Furans				0.6154	10.013			23.4		0.178	26.0

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.40	6.634e2	9.356e2	0.71	N.O	0.42700	0.42700
2 Total Tetra-Dioxins	21.80	4.576e2	4.998e2	0.92	YES	0.23600	0.00000
3 Total Tetra-Dioxins	22.58	2.862e2	2.425e2	1.18	YES	0.11500	0.00000
4 Total Tetra-Dioxins	23.83	4.827e2	4.886e2	0.99	YES	0.23000	0.00000
5 Total Tetra-Dioxins	24.57	2.358e2	3.176e2	0.74	N.O	0.14800	0.14768



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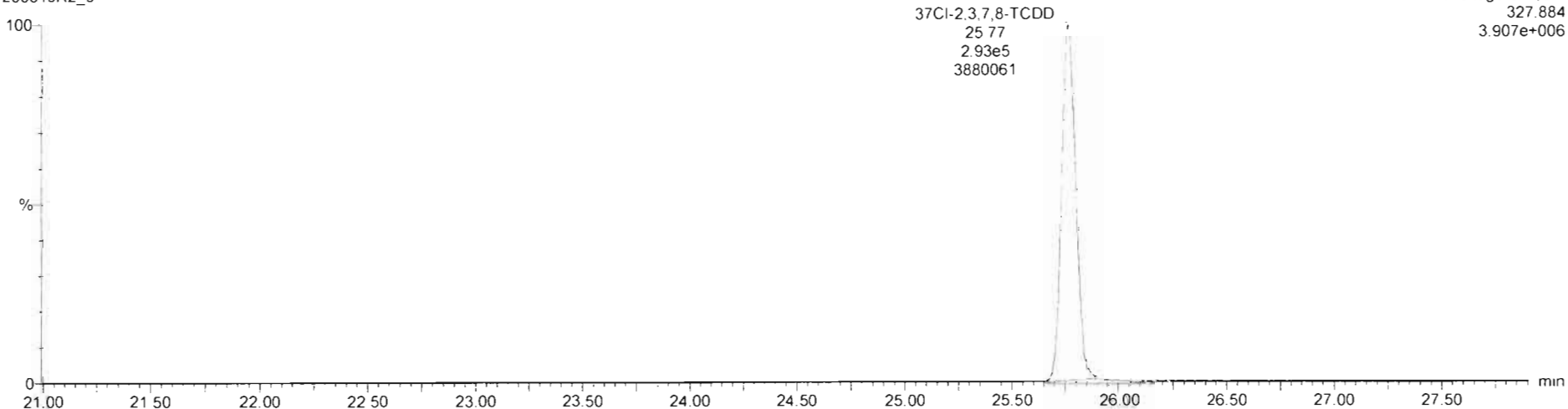
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Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

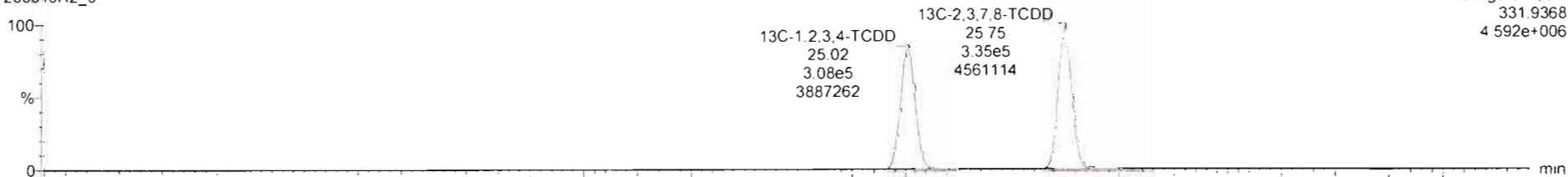
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200319R2_9

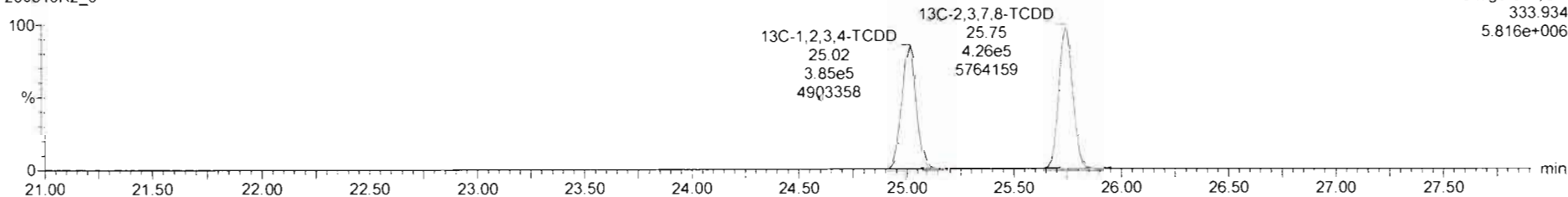


13C-1,2,3,4-TCDD

200319R2_9



200319R2_9



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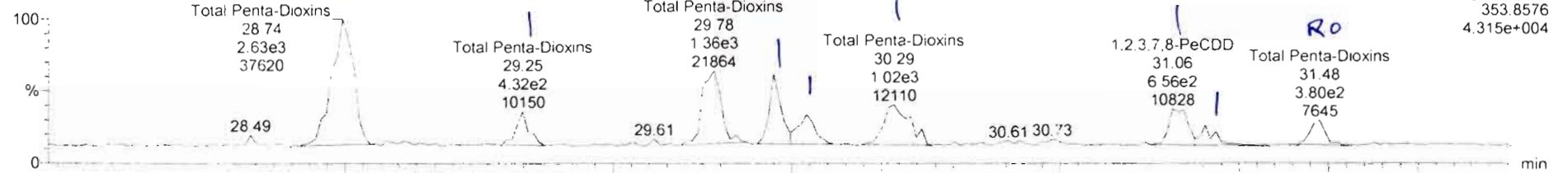
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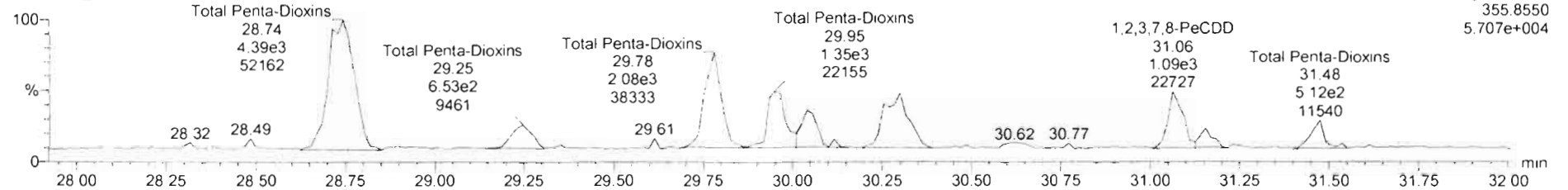
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1,2,3,7,8-PeCDD

200319R2_9

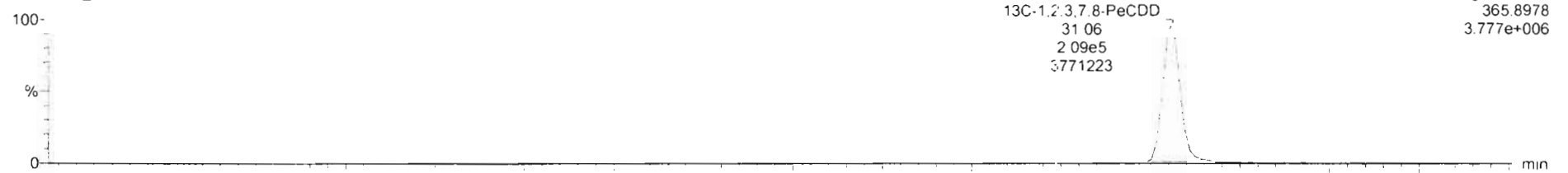


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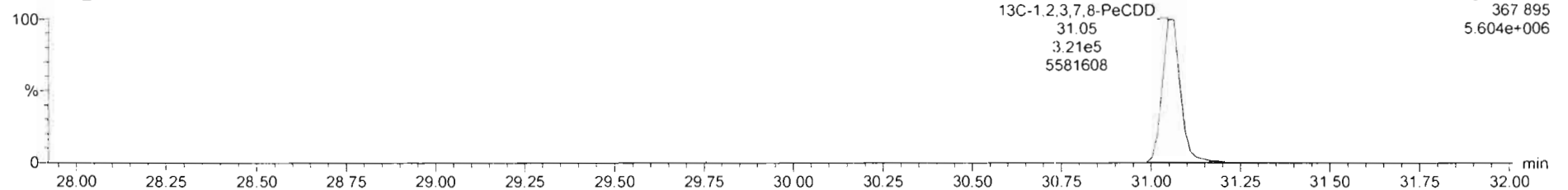


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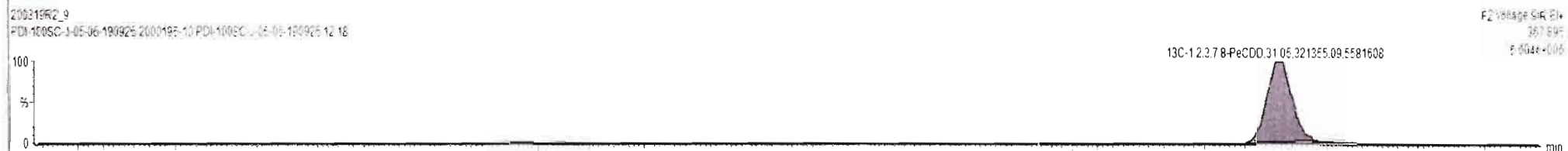
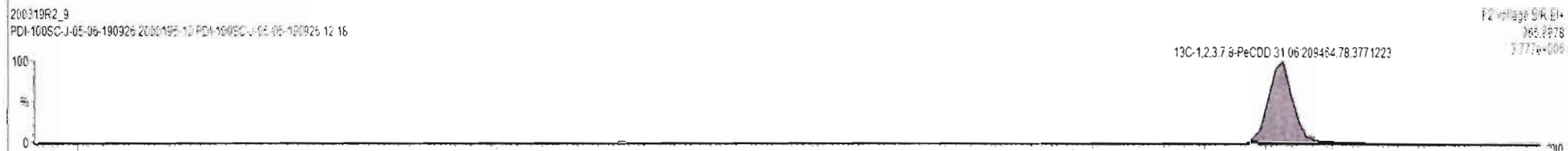
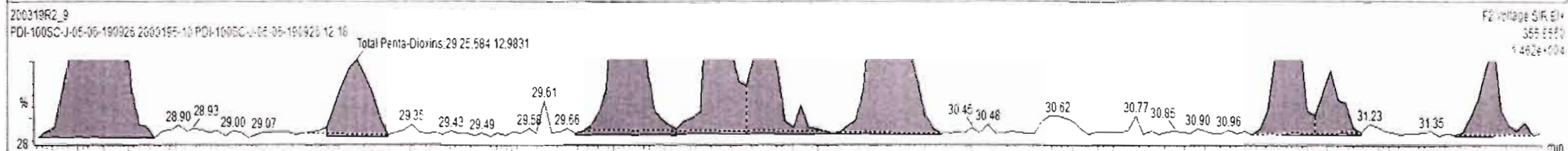
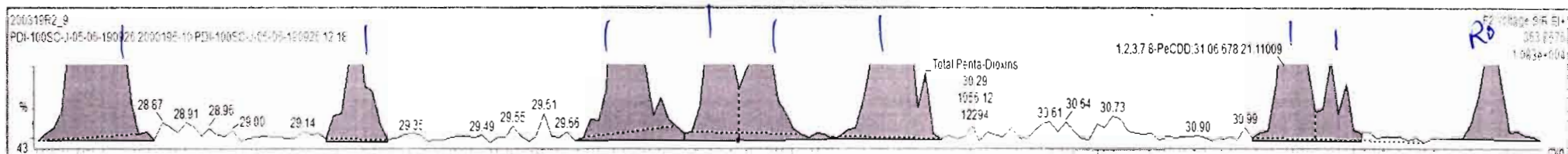


200319R2_9



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9835	10.013			0.680		0.110	1.56
40 Total Penta-Dioxins				0.9212	10.013			6.54		6.126	8.89
41 Total Hexa-Dioxins				0.9844	10.013			35.0		0.150	38.2
42 Total Hepta-Dioxins				1.0061	10.013			160		0.583	160
43 Total Tetra-Furans				0.9154	10.013			23.4		0.178	26.0

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.74	2.685e3	4.354e2	0.61	NO	2.8912	2.8912
2 Total Penta-Dioxins	28.25	4.596e2	6.841e2	0.67	NO	0.46715	0.46715
3 Total Penta-Dioxins	28.78	1.459e3	2.184e3	0.68	NO	1.5027	1.5027
4 Total Penta-Dioxins	29.95	8.525e2	1.421e3	0.60	NO	0.92851	0.92851
5 Total Penta-Dioxins	30.34	5.772e2	9.079e2	0.64	NO	0.60961	0.60961
6 Total Penta-Dioxins	30.25	1.056e3	1.788e3	0.59	NO	1.1619	1.1619
7 1,2,3,7,8-PeCDD	31.36	6.782e2	1.106e3	0.61	NO	0.72872	0.72872
8 Total Penta-Dioxins	31.16	2.609e2	3.705e2	0.70	NO	0.25804	0.25804
9 Total Penta-Dioxins	31.48	3.501e2	5.166e2	0.74	YES	0.34997	0.00000



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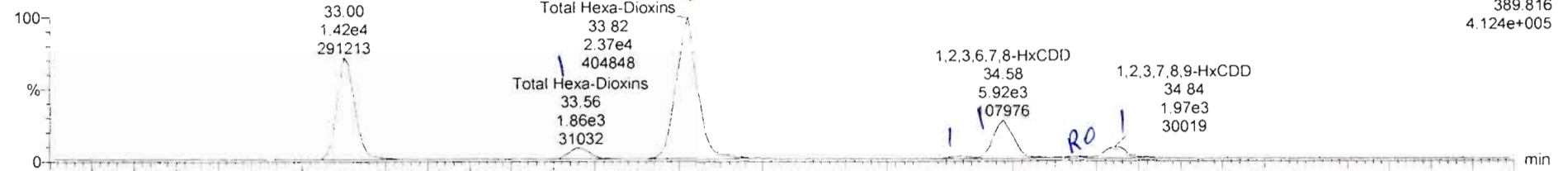
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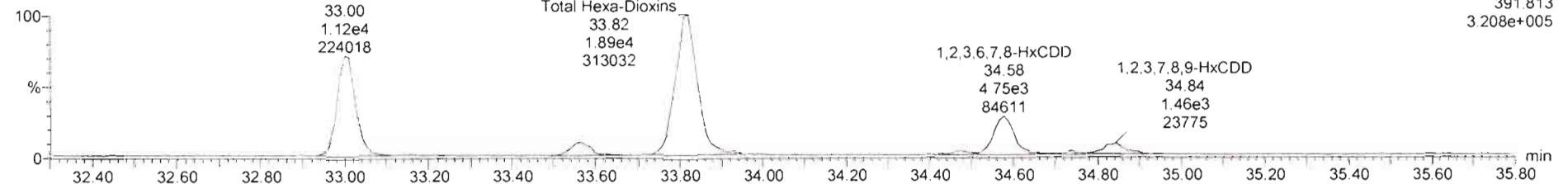
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1,2,3,4,7,8-HxCDD

200319R2_9

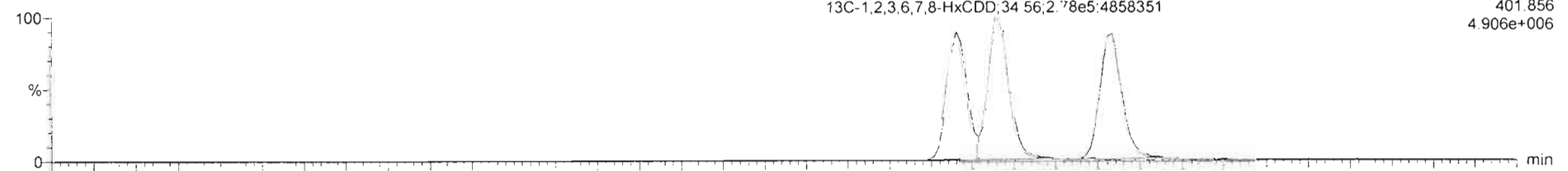


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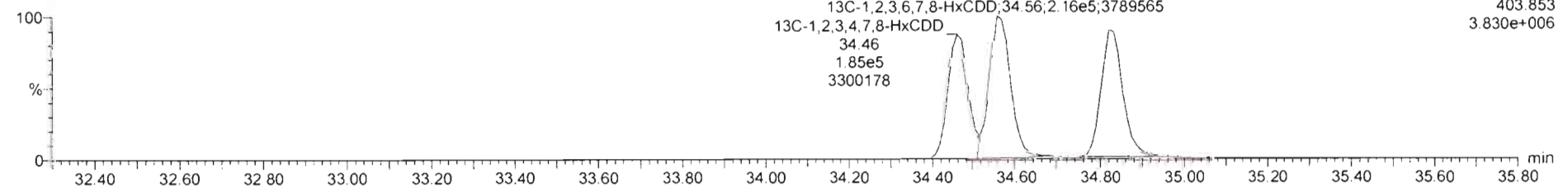


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200319R2_9

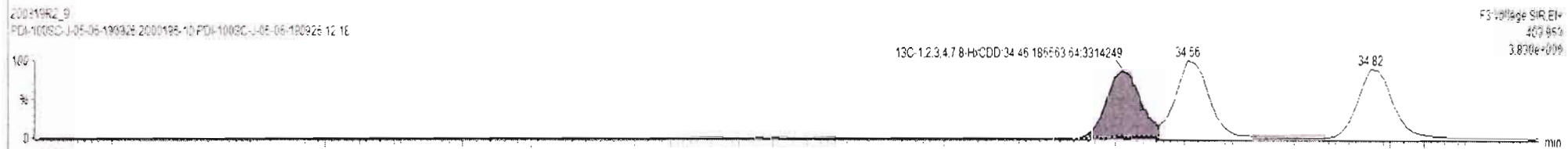
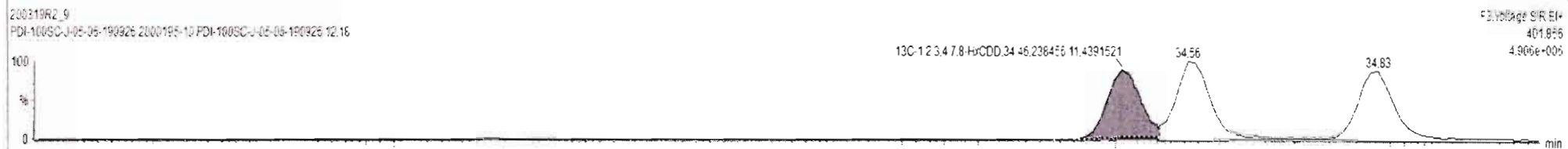
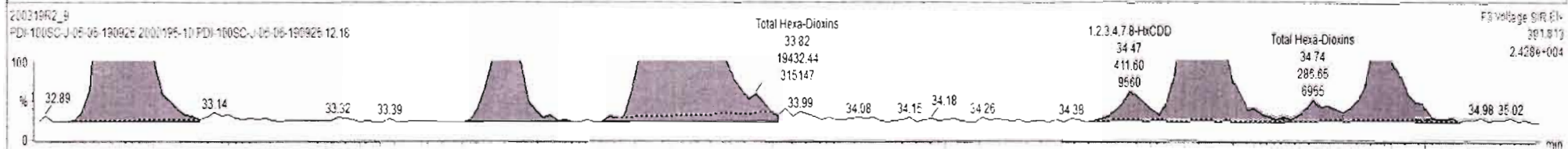
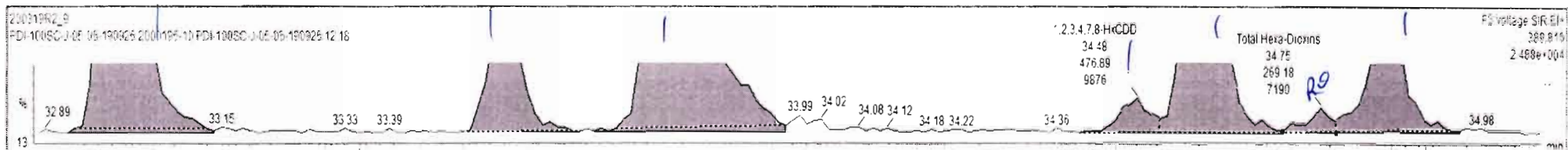


200319R2_9



#	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9835	10.013			0.580		0.110	1.56
40	Total Penta-Dioxins				0.9212	10.013			8.54		0.126	8.83
41	Total Hexa-Dioxins				0.9844	10.013			38.6		0.160	38.8
42	Total Hepta-Dioxins				1.0061	10.013			160		0.583	160
43	Total Tetra-Furans				0.9154	10.013			22.4		0.178	26.0

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Hexa-Dioxins	33.90	1.443e4	1.130e4	1.27	NO	11.393	11.293
2	Total Hexa-Dioxins	33.56	1.885e3	1.595e3	1.17	NO	1.5303	1.5303
3	Total Hexa-Dioxins	33.82	2.408e4	1.943e4	1.24	NO	19.220	19.230
4	1,2,3,4,7,8-HxCDD	34.48	4.789e2	4.116e2	1.16	NO	0.36989	0.36865
5	1,2,3,6,7,8-HxCDD	34.58	5.964e3	4.836e3	1.22	NO	4.4363	4.4363
6	Total Hexa-Dioxins	34.75	2.552e2	2.866e2	0.94	YES	0.21501	0.00000
7	1,2,3,7,8,9-HxCDD	34.84	2.059e3	1.519e3	1.36	NO	1.6190	1.6190



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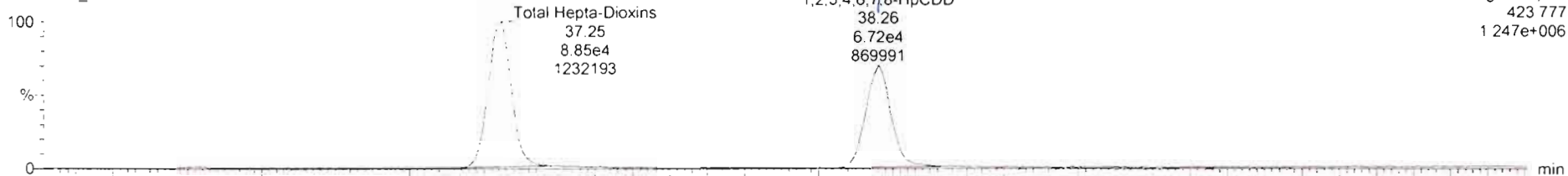
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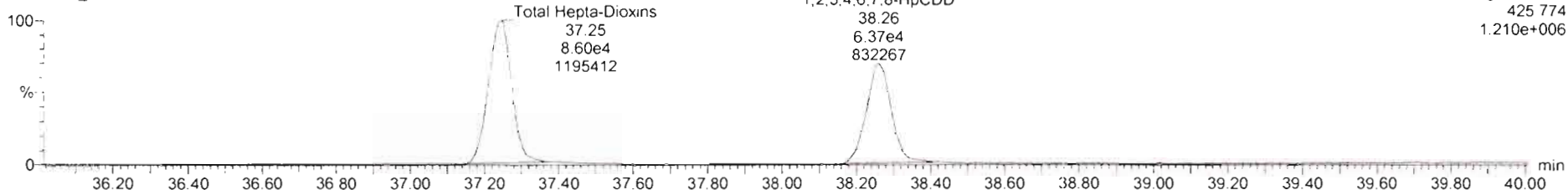
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1,2,3,4,6,7,8-HpCDD

200319R2_9

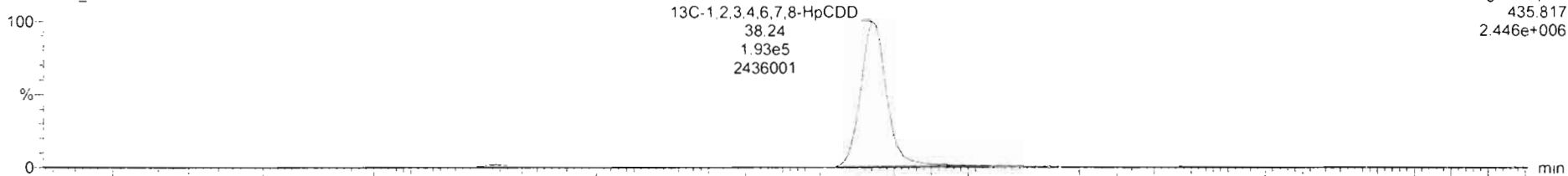


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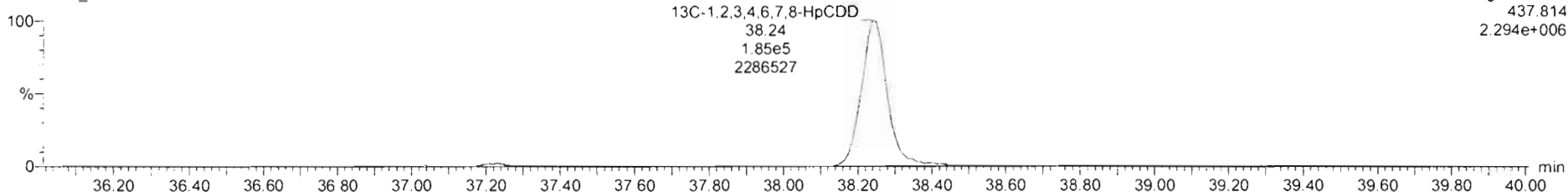


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200319R2_9

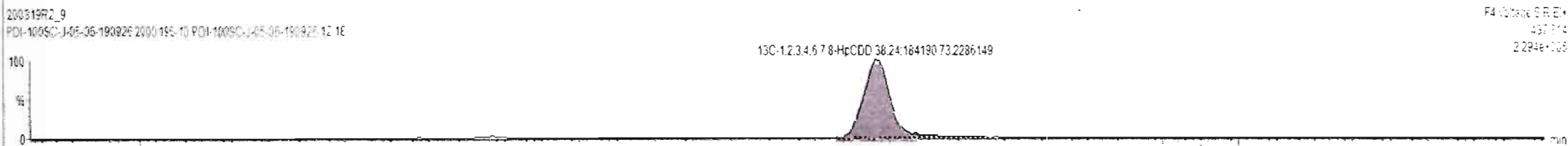
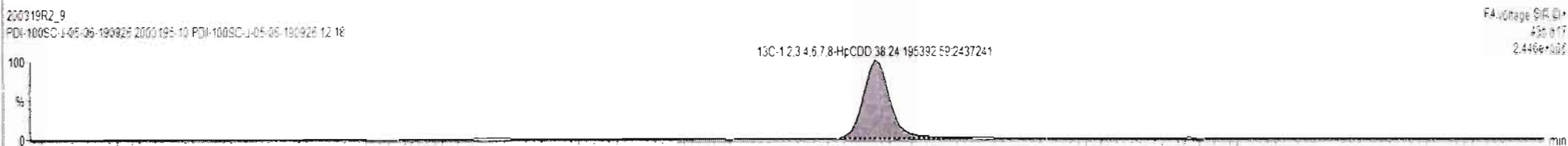
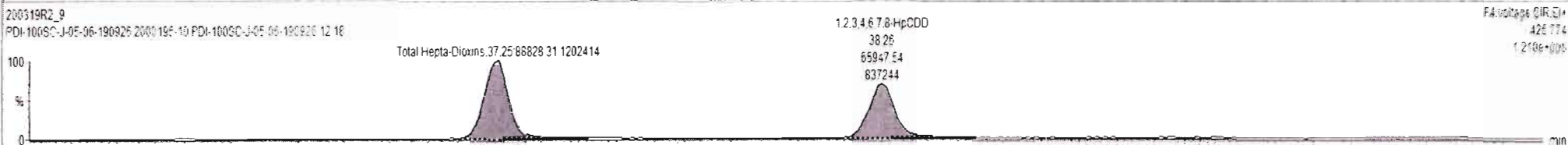
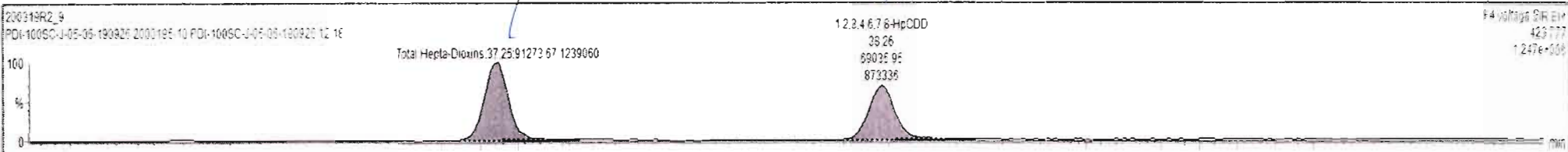


200319R2_9



Name	Resp	RA	n/y	RRF	w/wol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.5837	10.012			0.530		0.110	1.55
40 Total Penta-Dioxins				0.9212	10.012			8.54		0.126	8.99
41 Total Hexa-Dioxins				0.9844	10.013			38.6		0.160	38.8
42 Total Hepta-Dioxins				1.0061	10.013			165		0.587	165
43 Total Tetra-Furans				0.9154	10.012			23.4		0.178	26.0

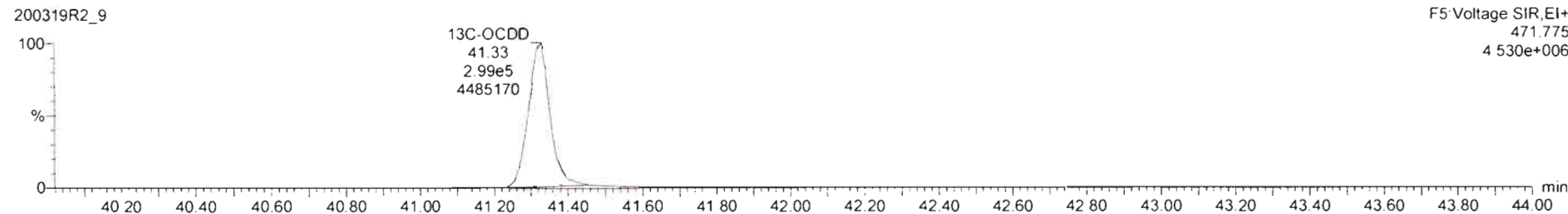
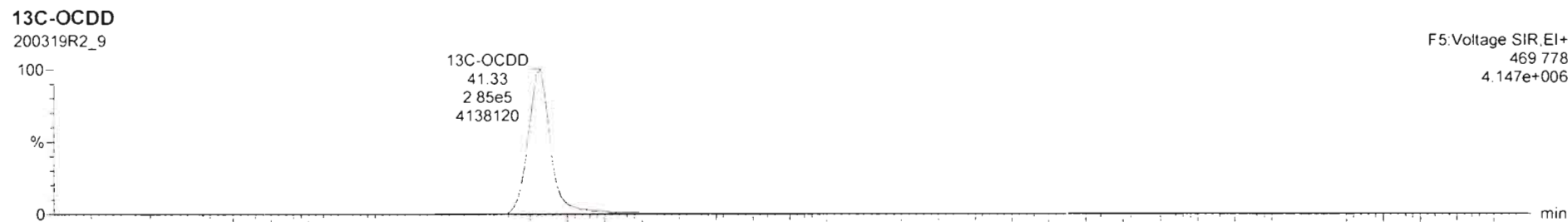
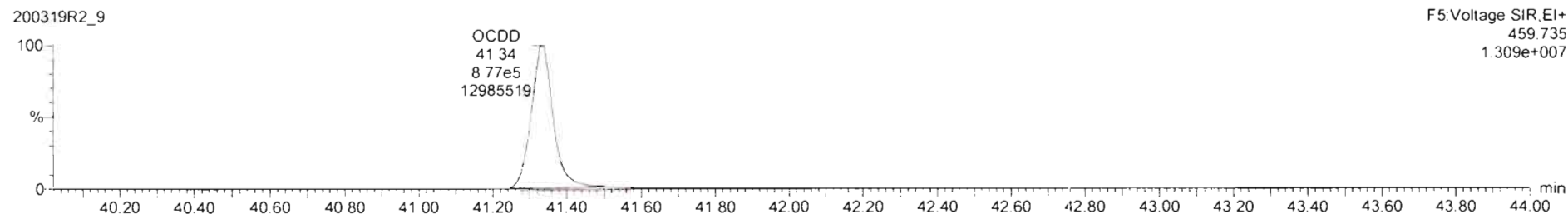
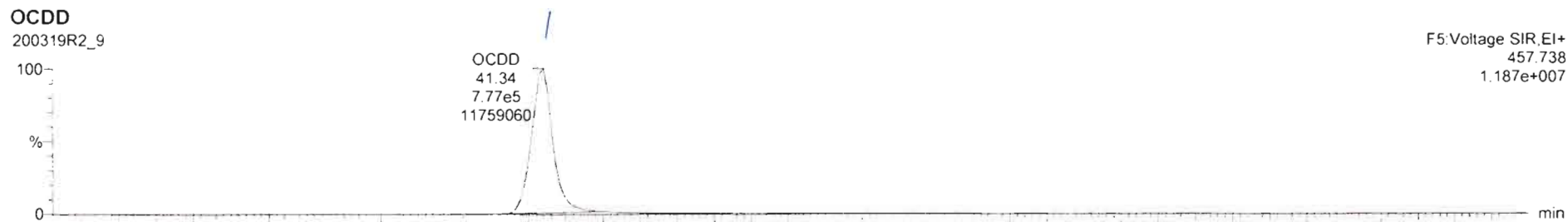
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.25	5.127e4	6.852e4	1.01	NO	94.202	54.202
2 1,2,3,4,6,7,8-HpCDD	38.26	6.604e4	6.595e4	1.05	NO	70.603	70.603



Dataset: Untitled

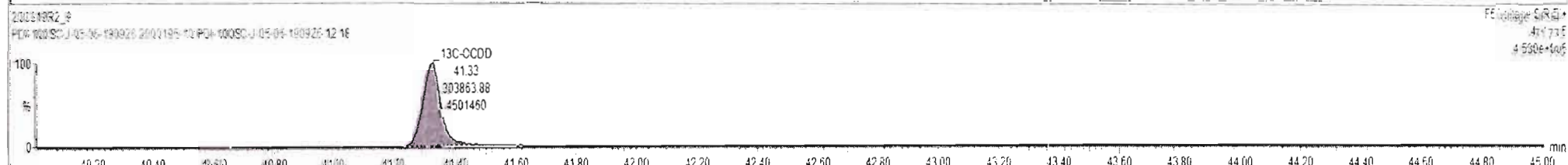
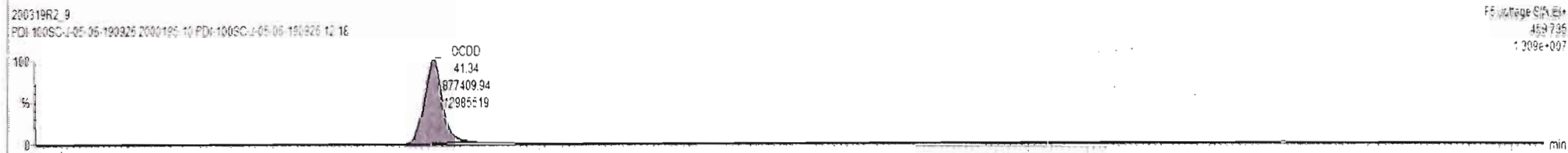
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Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926



Name	Resp	RA	n/y	RRF	wrt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	1.65e6	0.89	NO	1.0515	10.013	41.34	1.000	1080		0.530	1686

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



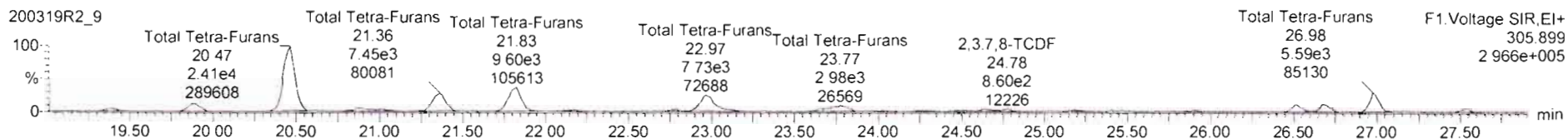
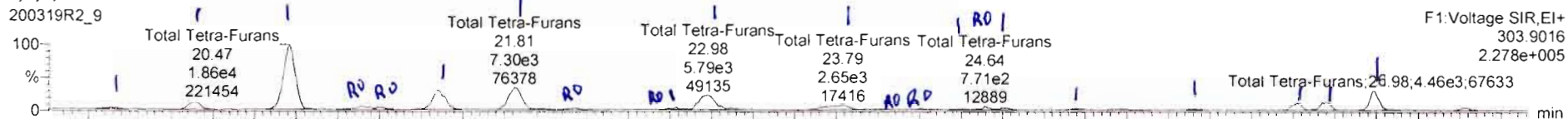
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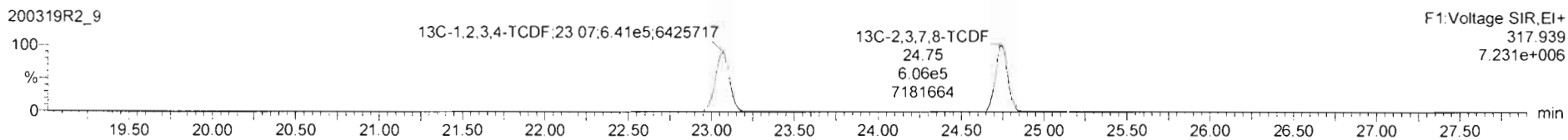
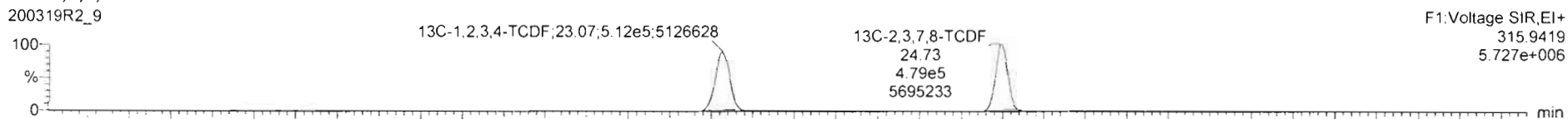
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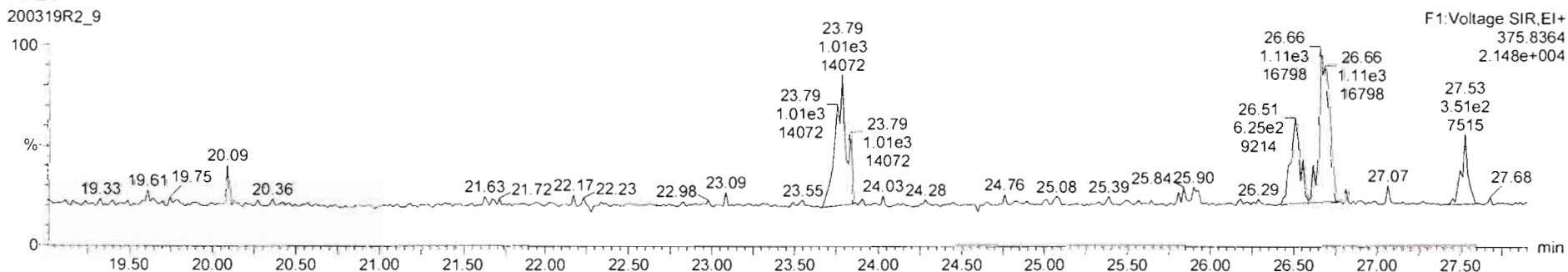
2,3,7,8-TCDF



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

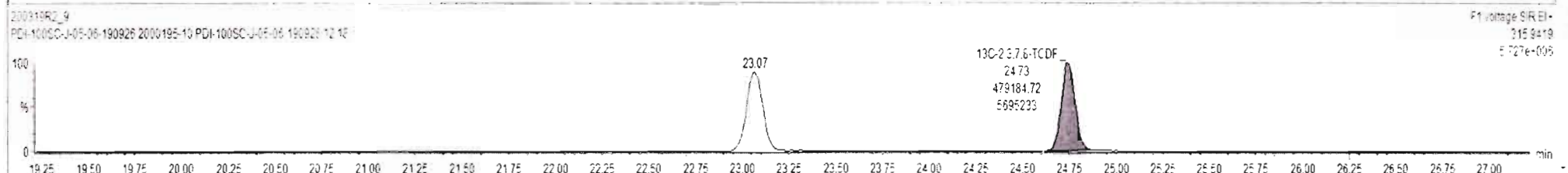
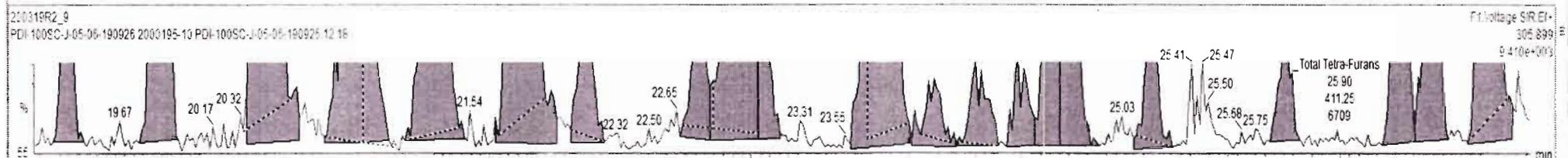
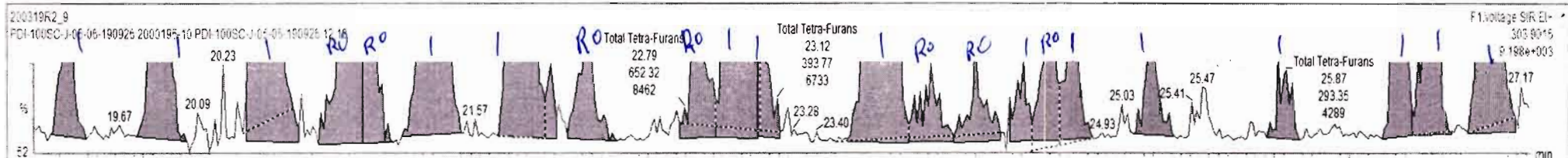


DPE1



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.9154	10.013			24.8		0.178	26.6

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	19.39	4.929e2	7.017e2	0.70	NO	0.24039	0.24039
2 Total Tetra-Furans	19.88	2.267e2	2.728e2	0.83	NO	1.0043	1.0043
3 Total Tetra-Furans	20.47	1.836e4	2.450e4	0.77	NO	8.7178	8.7178
4 Total Tetra-Furans	20.90	1.251e3	1.424e3	0.89	ES	0.50881	0.00000
5 Total Tetra-Furans	20.99	6.178e2	5.981e2	1.03	YES	0.21286	0.00000
6 Total Tetra-Furans	21.35	6.142e3	7.546e3	0.81	NO	2.7522	2.7522
7 Total Tetra-Furans	21.81	7.462e3	1.006e4	0.74	NO	3.5233	3.5233
8 Total Tetra-Furans	22.17	5.790e2	5.826e2	0.96	YES	0.25719	0.00000
9 Total Tetra-Furans	22.79	6.523e2	6.612e2	0.96	YES	0.22531	0.00000
10 Total Tetra-Furans	22.98	5.827e3	7.396e3	0.79	NO	2.6590	2.6590
11 Total Tetra-Furans	23.12	3.938e2	5.045e2	0.78	NO	0.16062	0.16062
12 Total Tetra-Furans	23.75	2.691e3	3.716e3	0.72	NO	1.2883	1.2883
13 Total Tetra-Furans	24.01	3.927e2	3.673e2	1.07	YES	0.13071	0.00000
14 Total Tetra-Furans	24.25	4.028e2	4.036e2	1.00	YES	0.14365	0.00000
15 Total Tetra-Furans	24.51	2.611e2	3.570e2	0.73	NO	0.12429	0.12429
16 Total Tetra-Furans	24.84	7.115e2	7.680e2	0.94	YES	0.26976	0.00000
17 2,3,7,8-TCDF	24.75	6.034e2	6.603e2	0.70	NO	0.29431	0.29431
18 Total Tetra-Furans	25.20	4.244e2	5.070e2	0.84	NO	0.18728	0.18728
19 Total Tetra-Furans	25.87	2.933e2	4.113e2	0.71	NO	0.14167	0.14167
20 Total Tetra-Furans	26.53	1.683e3	2.134e3	0.79	NO	0.76683	0.76683
21 Total Tetra-Furans	26.68	1.597e3	2.335e3	0.86	NO	0.87100	0.87100
22 Total Tetra-Furans	26.98	4.580e3	5.652e3	0.78	NO	2.0935	2.0935



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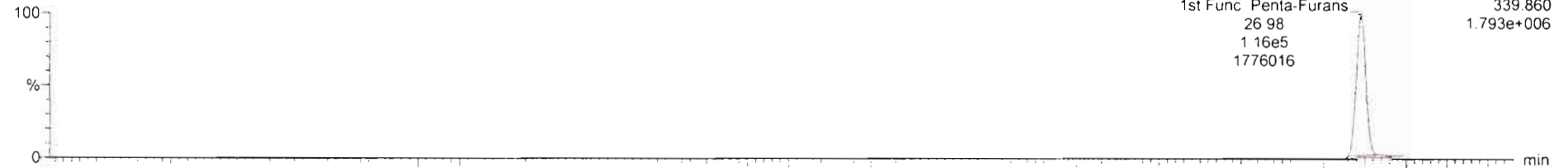
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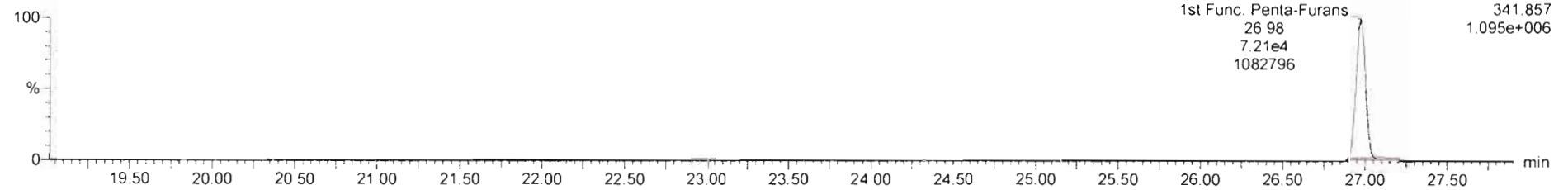
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1st Func. Penta-Furans

200319R2_9

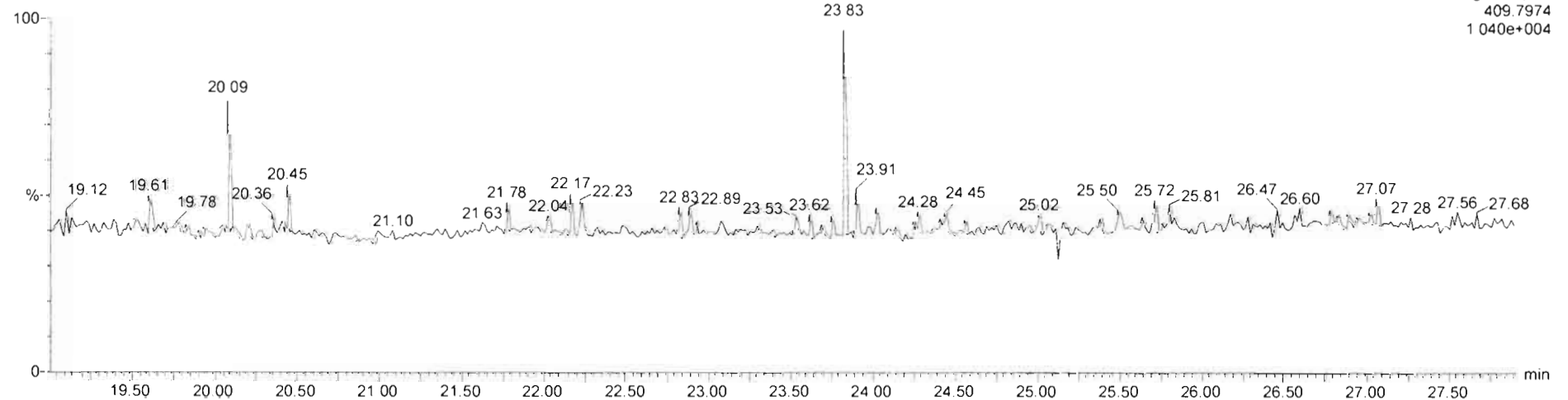


200319R2_9



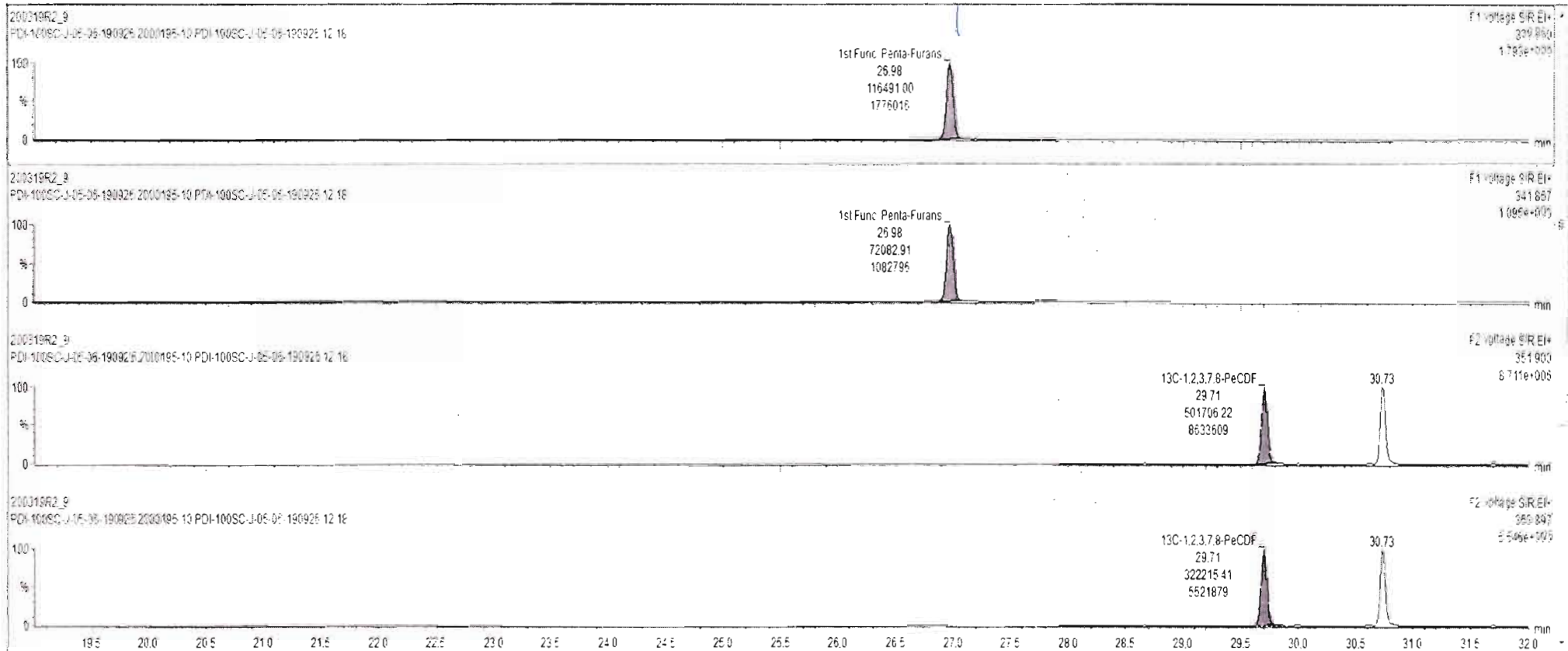
DPE6

200319R2_9



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.013			46.7		0.0590	48.7

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1st Func. Penta-Furans	26.98	1.175e5	7.208e4	1.62	NO	48.675	46.675

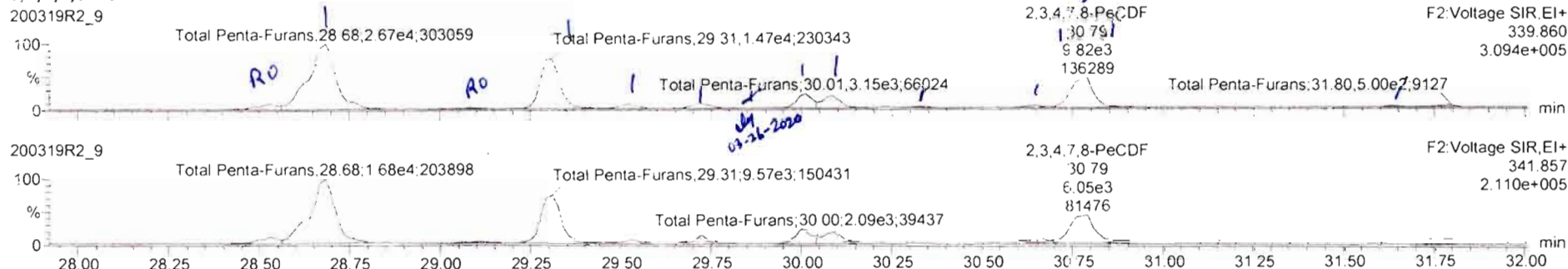


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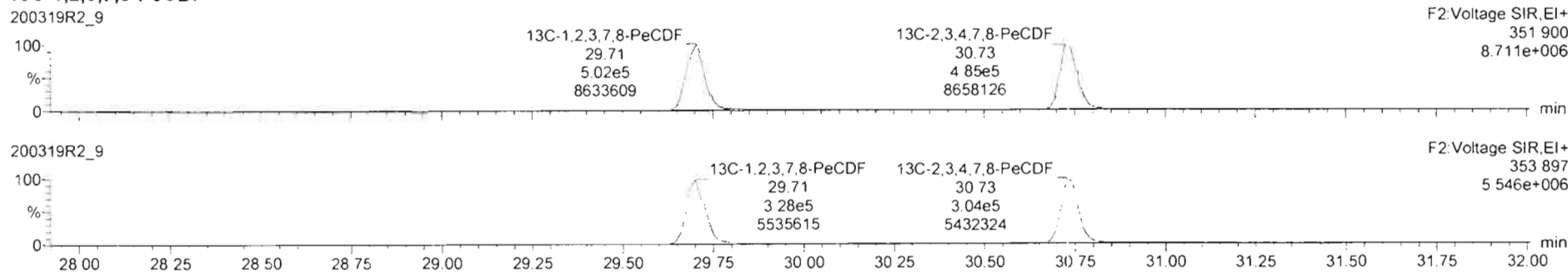
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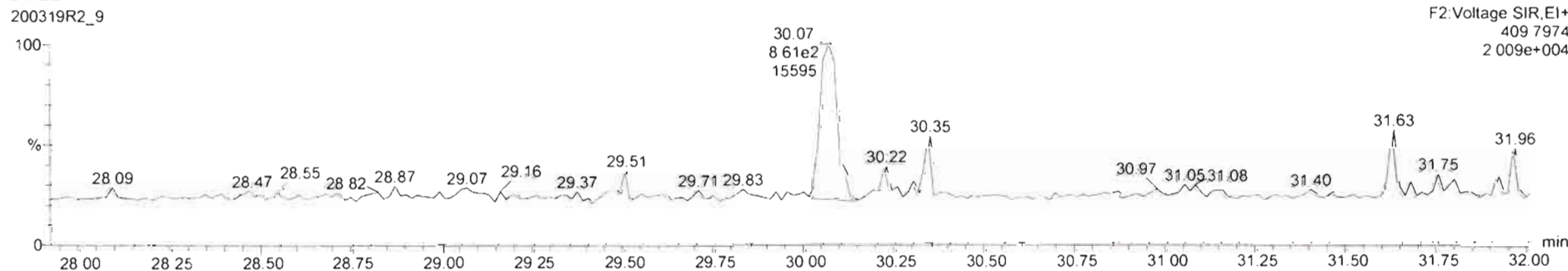
1,2,3,7,8-PeCDF



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

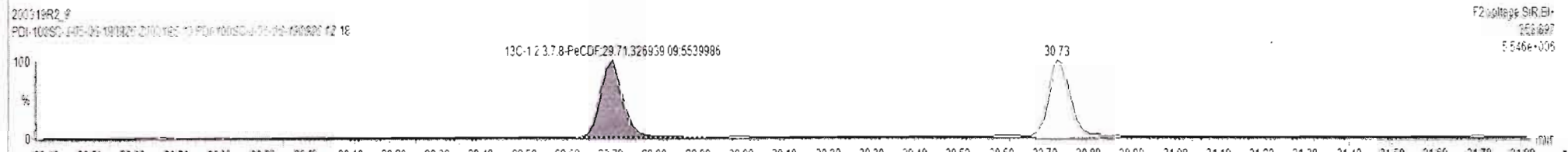
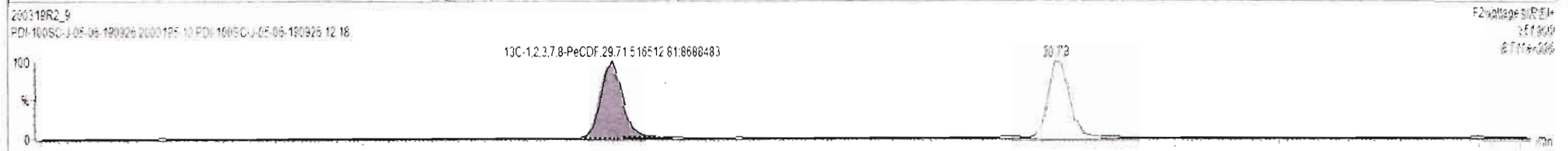
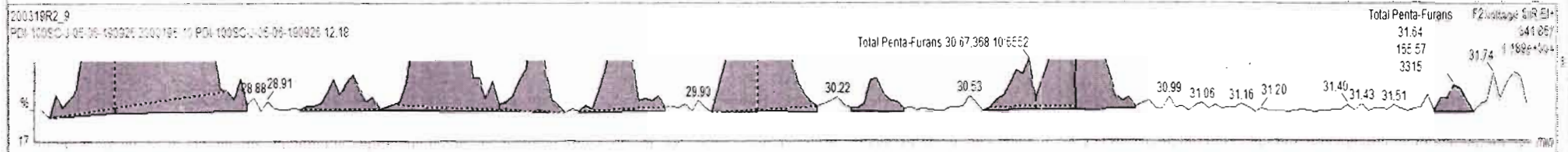
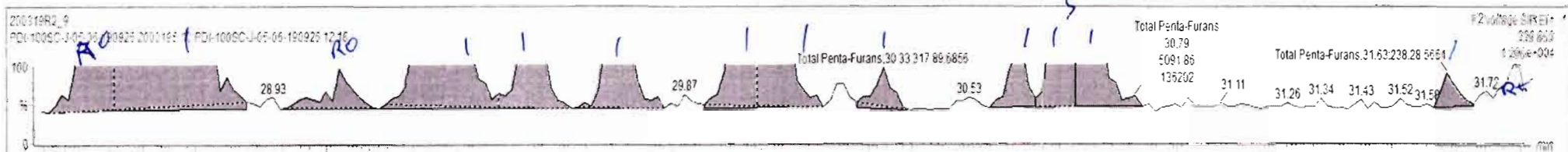


DPE2



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func Penta-Furans				0.9594	10.012			48.1		0.0590	48.1

Name	RT	mt Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.53	1.668e3	1.280e2	1.30	YES	0.69962	0.00000
2 Total Penta-Furans	28.88	2.694e4	1.728e4	1.56	NO	11.278	11.278
3 Total Penta-Furans	29.08	4.532e2	3.763e2	1.20	YES	0.19016	0.00000
4 Total Penta-Furans	29.31	1.485e4	9.702e3	1.53	NO	6.2703	6.2703
5 Total Penta-Furans	29.52	1.245e2	7.500e2	1.65	NO	0.51033	0.51033
6 1,2,3,7,8-PeCDF	29.72	1.408e3	9.988e2	1.41	NO	0.59400	0.59400
7 Total Penta-Furans	30.01	3.200e3	2.104e3	1.52	NO	1.3529	1.3529
8 Total Penta-Furans	30.09	3.243e2	2.029e2	1.68	NO	1.3458	1.3458
9 Total Penta-Furans	30.33	2.175e2	2.208e2	1.44	NO	0.13738	0.13738
10 Total Penta-Furans	30.55	4.939e2	3.681e2	1.34	NO	0.21983	0.21983
11 2,3,4,7,8-PeCDF	30.77	4.721e2	3.083e3	1.54	NO	1.9633	1.9633
12 Total Penta-Furans	30.79	5.092e2	3.088e2	1.66	NO	2.0811	2.0811
13 Total Penta-Furans	31.63	2.382e2	1.656e2	1.44	NO	0.10299	0.10299

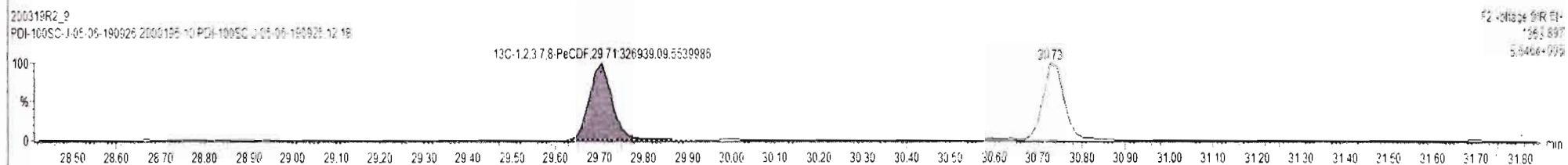
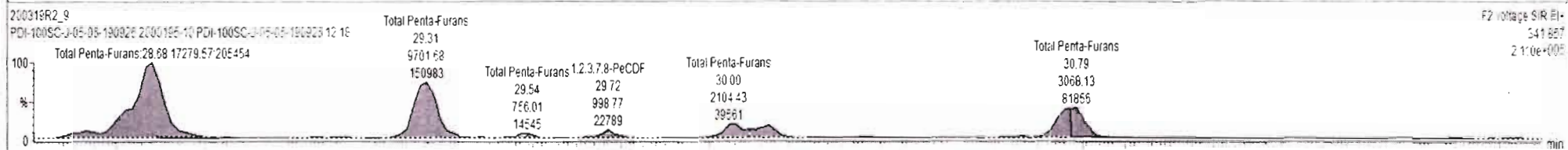
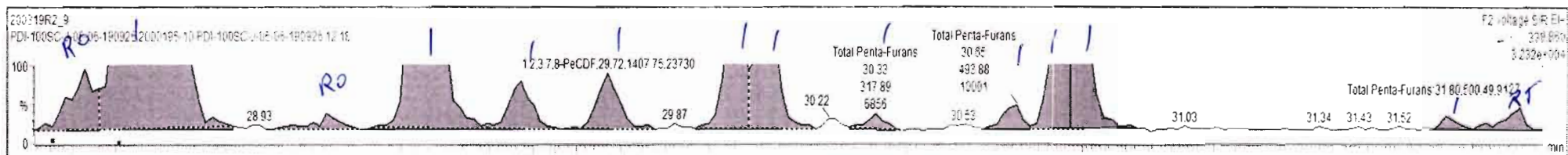




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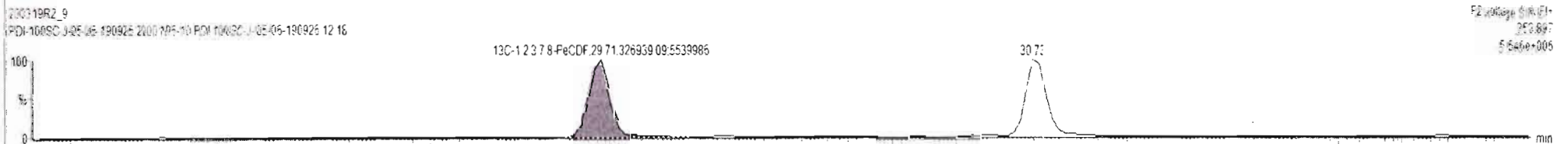
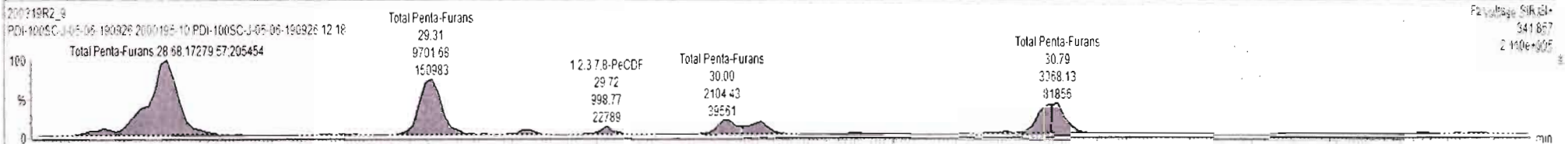
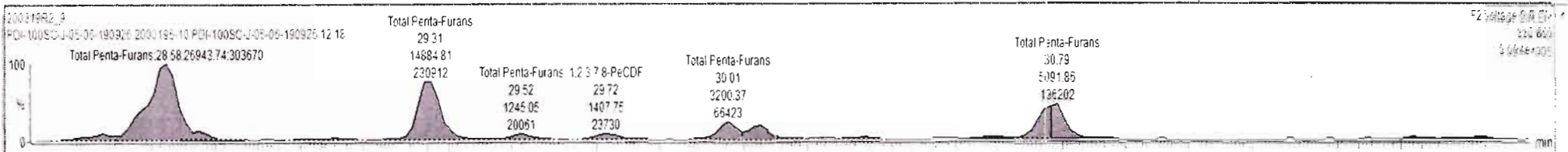
Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	18.013			45.1		0.0590	48.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.53	1.683e2	1.280e3	1.30	YES	0.69582	0.00200
2 Total Penta-Furans	28.68	2.694e4	1.728e4	1.58	NO	11.275	11.275
3 Total Penta-Furans	29.08	4.532e2	3.783e2	1.26	YES	0.19016	0.00200
4 Total Penta-Furans	29.31	1.488e4	9.702e2	1.51	NO	6.2703	6.2703
5 Total Penta-Furans	29.52	1.245e3	7.560e2	1.65	NO	0.51033	0.51033
6 1,2,3,7,8-PeCDF	29.72	1.408e3	9.988e2	1.41	NO	0.59400	0.59400
7 Total Penta-Furans	30.01	3.200e3	2.104e3	1.52	NO	1.3529	1.3529
8 Total Penta-Furans	30.09	3.245e3	2.025e3	1.60	NO	1.3458	1.3458
9 Total Penta-Furans	30.33	2.179e2	2.208e2	1.44	NO	0.13738	0.13738
10 Total Penta-Furans	30.65	4.535e2	3.681e2	1.34	NO	0.21982	0.21982
11 2,3,4,7,8-PeCDF	30.77	4.721e3	3.063e2	1.54	NO	1.9632	1.9632
12 Total Penta-Furans	30.79	5.052e3	3.088e2	1.66	NO	2.0811	2.0811
13 Total Penta-Furans	31.83	2.383e2	1.655e2	1.44	NO	0.10299	0.10299
14 Total Penta-Furans	31.80	5.005e2	3.550e2	1.42	NO	0.21768	0.21768



Name	Resp	RA	nly	RRF	wtVal	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.5594	10.613			48.1		0.0590	48.1

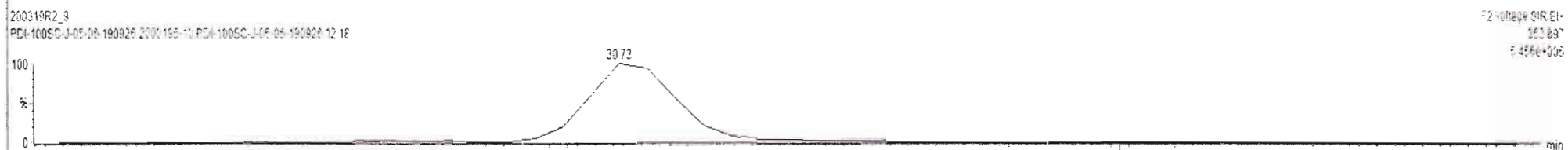
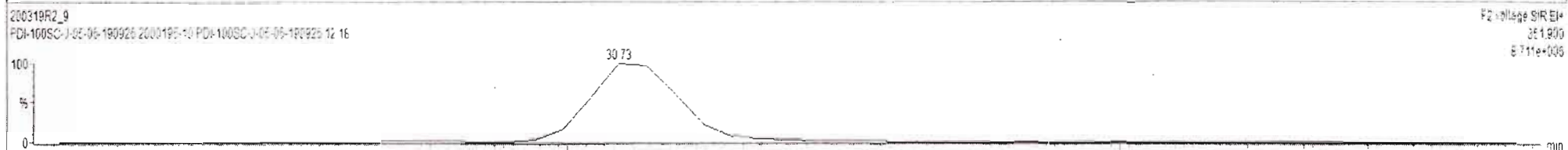
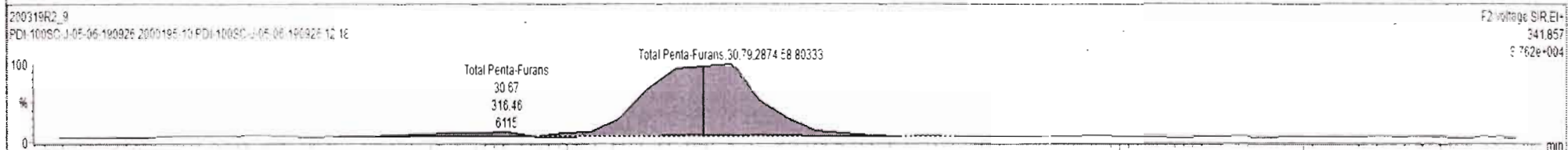
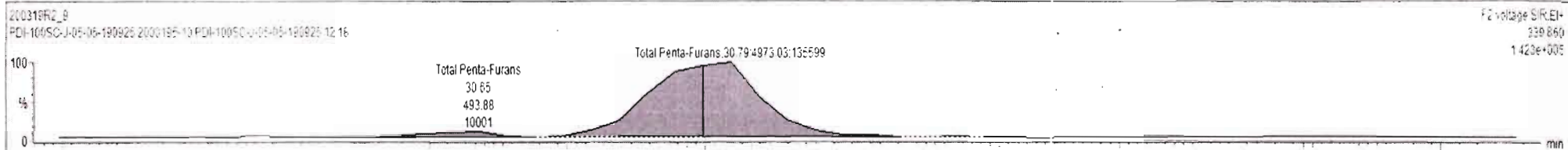
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.53	1.668e3	1.260e2	1.30	YES	0.69902	0.00000
2 Total Penta-Furans	28.68	2.694e4	1.728e4	1.56	NO	11.278	11.278
3 Total Penta-Furans	29.08	4.532e2	3.763e2	1.20	YES	0.16016	0.00000
4 Total Penta-Furans	29.31	1.468e4	9.702e3	1.53	NO	6.2703	6.2703
5 Total Penta-Furans	29.52	1.245e3	7.560e2	1.65	NO	0.51033	0.51033
6 1,2,3,7,8-PeCDF	29.72	1.408e3	9.988e2	1.41	NO	0.59400	0.59400
7 Total Penta-Furans	30.01	3.200e3	2.104e2	1.52	NO	1.3529	1.3529
8 Total Penta-Furans	30.09	3.248e3	2.025e2	1.60	NO	1.3458	1.2458
9 Total Penta-Furans	30.32	3.178e2	2.208e2	1.44	NO	0.12730	0.12730
10 Total Penta-Furans	30.65	4.939e2	3.681e2	1.34	NO	0.21983	0.21983
11 2,3,4,7,8-PeCDF	30.77	4.721e3	3.063e3	1.54	NO	1.9633	1.9633
12 Total Penta-Furans	30.79	5.052e3	3.668e3	1.66	NO	2.0811	2.0811
13 Total Penta-Furans	31.63	2.383e2	1.656e2	1.44	NO	0.10299	0.10299
14 Total Penta-Furans	31.80	5.005e2	3.530e2	1.42	NO	0.21766	0.21766



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Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9594	10.013			48.7		0.0590	48.7

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	26.52	1.646e2	1.221e2	1.35	NO	0.74001	0.74001
2 Total Penta-Furans	28.68	2.672e4	1.675e4	1.60	NO	11.223	11.223
3 Total Penta-Furans	29.08	4.053e2	3.507e2	1.17	YES	0.17381	0.00000
4 Total Penta-Furans	29.21	1.473e4	9.572e2	1.54	NO	6.2743	6.2743
5 Total Penta-Furans	29.52	1.221e2	7.266e2	1.68	NO	0.52268	0.52268
6 1,2,3,4,8-PeCDF	29.72	1.377e2	9.430e2	1.46	NO	0.59629	0.59629
7 Total Penta-Furans	30.01	3.145e2	2.693e2	1.50	NO	1.3521	1.3521
8 Total Penta-Furans	30.09	3.223e2	1.977e2	1.63	NO	1.3426	1.3426
9 Total Penta-Furans	30.65	4.839e2	3.166e2	1.56	NO	0.20916	0.20916
10 2,3,4,7,8-PeCCF	30.77	4.552e2	2.988e2	1.52	NO	1.9018	1.9018
11 Total Penta-Furans	30.79	4.972e2	2.875e2	1.73	NO	2.0256	2.0256
12 Total Penta-Furans	31.80	5.005e2	3.344e2	1.50	NO	0.21550	0.21550



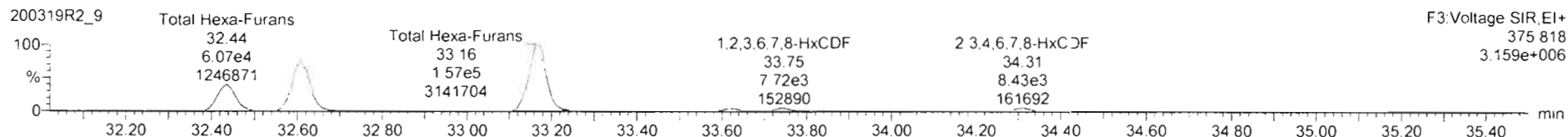
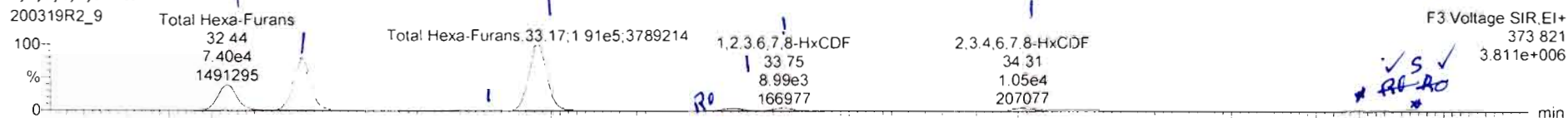
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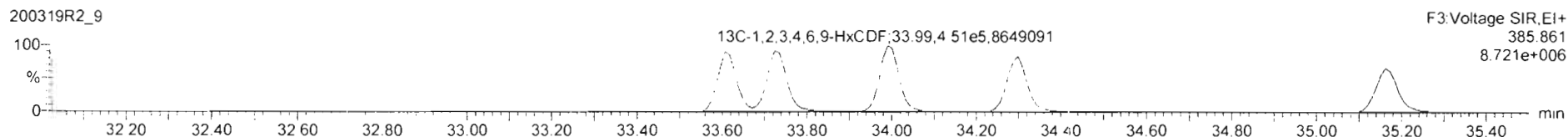
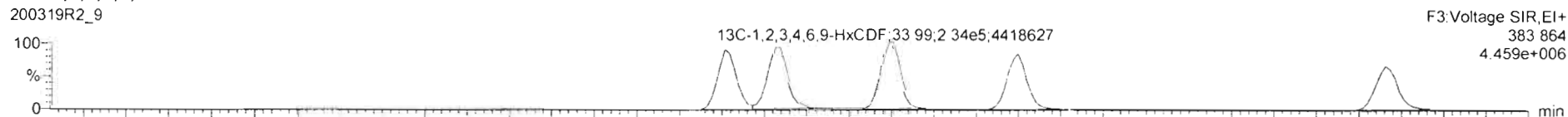
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Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

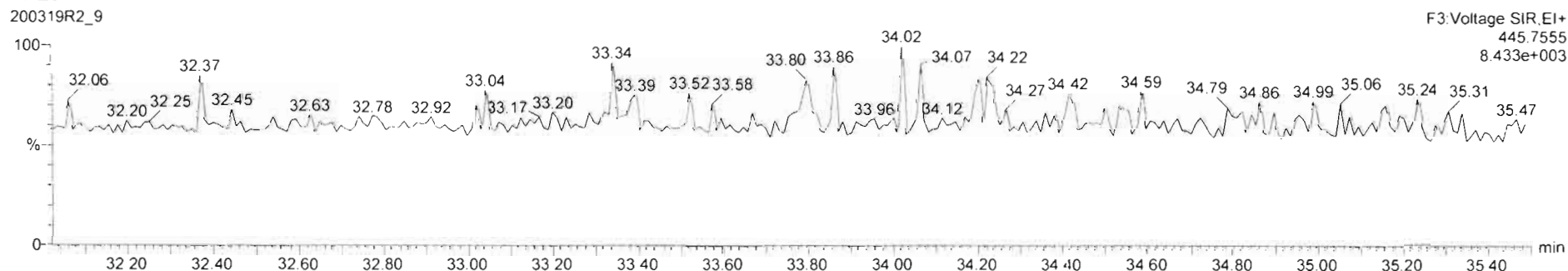
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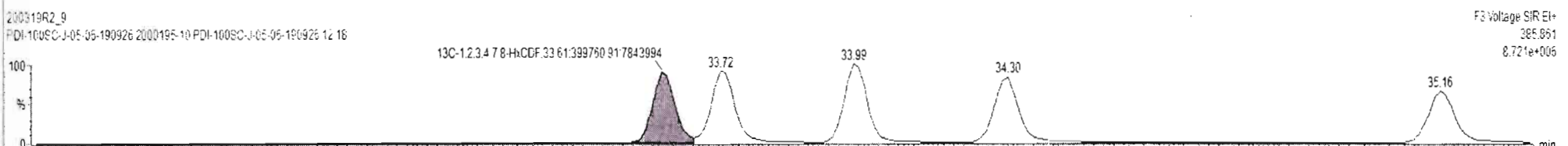
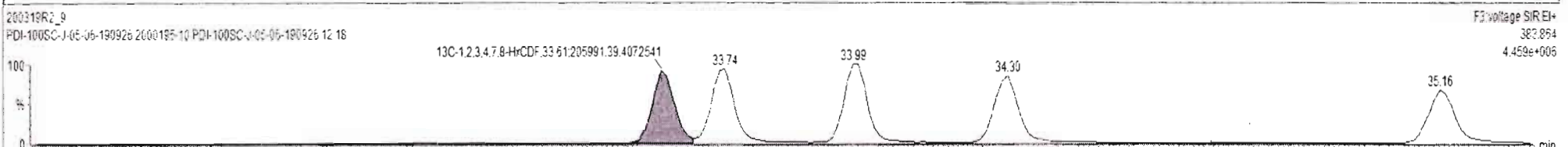
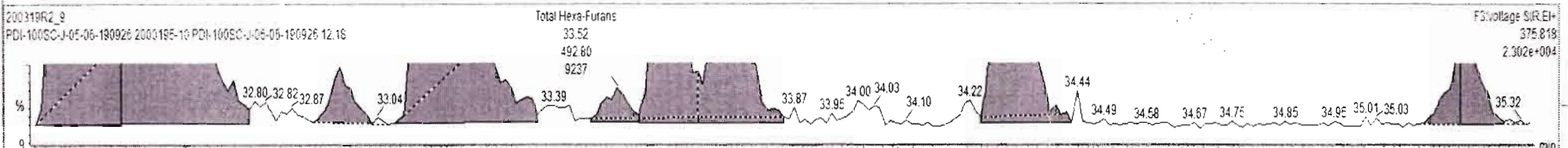
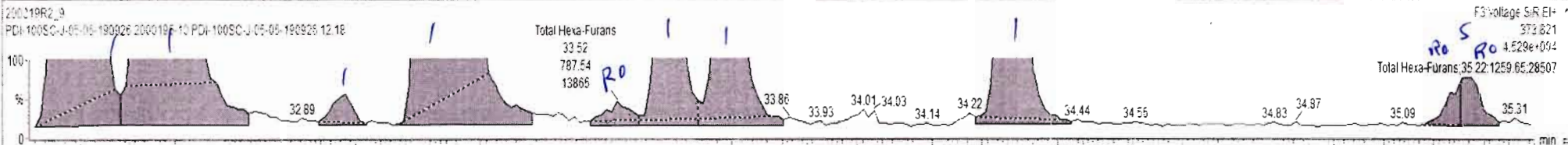


DPE3



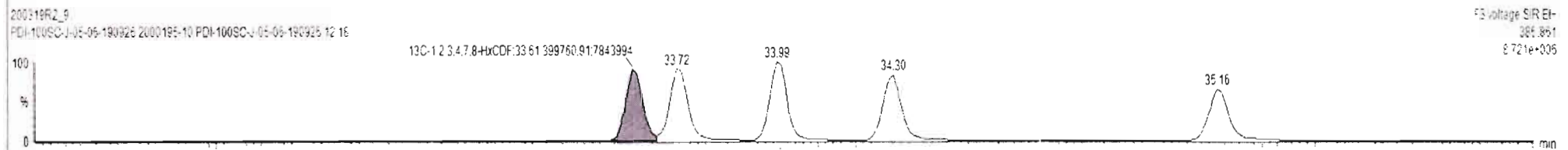
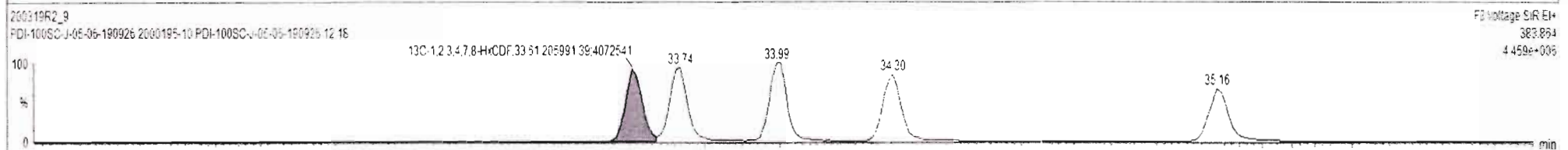
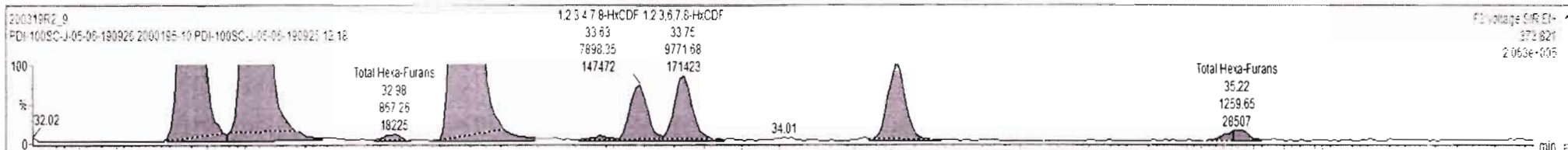
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0920	10.013			250		0.228	251

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.44	7.583e4	6.264e4	1.21	NO	42.722	42.722
2 Total Hexa-Furans	32.61	1.452e5	1.173e5	1.24	NO	86.951	86.951
3 Total Hexa-Furans	32.98	2.673e2	7.202e2	1.20	NO	0.43957	0.43957
4 Total Hexa-Furans	33.17	1.953e5	1.556e5	1.22	NO	109.50	109.50
5 Total Hexa-Furans	33.52	7.875e2	4.928e2	1.60	YES	0.34044	0.00000
6 1,2,3,4,7,8-HxCDF	33.63	7.895e3	6.552e3	1.20	NO	4.6030	4.6030
7 1,2,3,6,7,8-HxCDF	33.75	9.772e3	7.972e3	1.23	NO	5.2606	5.2606
8 2,3,4,6,7,8-HxCDF	34.21	1.114e4	8.782e3	1.27	NO	6.1056	6.1056
9 1,2,3,7,8,9-HxCDF	35.21	8.266e2	9.775e2	0.85	YES	0.55893	0.00000
10 Total Hexa-Furans	35.22	1.260e3	6.075e2	2.07	YES	0.41969	0.00000



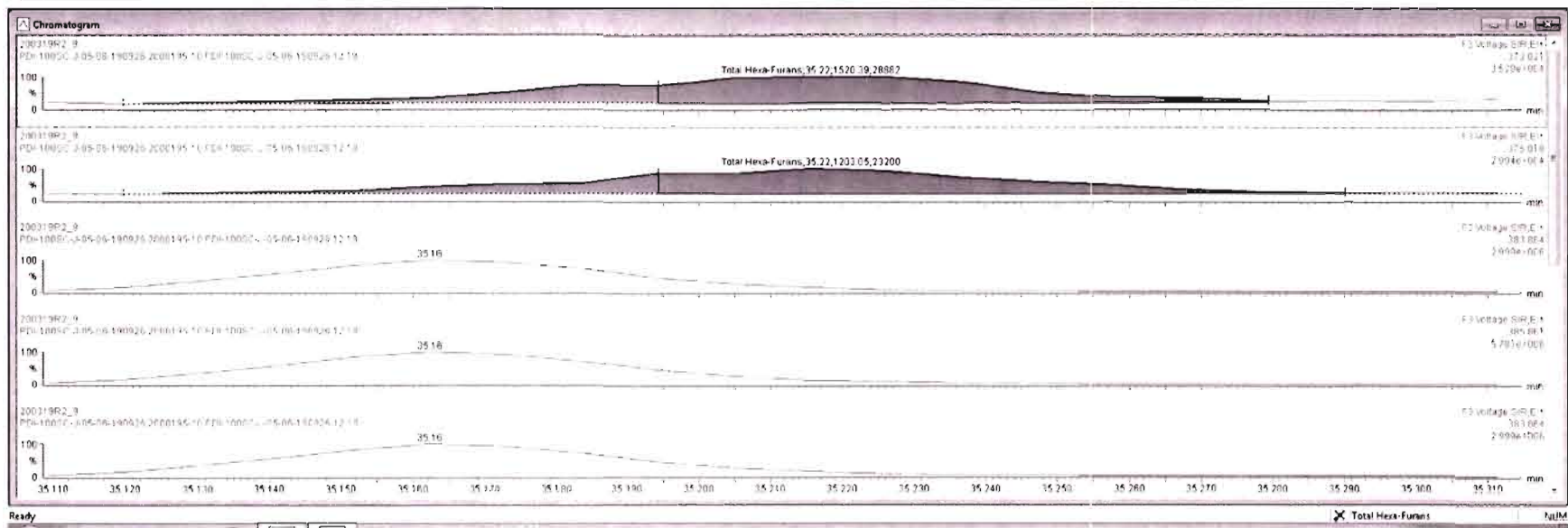
Name	Resp	RA	nly	RRF	wVvol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				1.0928	10.013			250		0.228	251

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.44	7.569e4	6.264e4	1.21	NO	42.722	42.722
2 Total Hexa-Furans	32.61	1.452e5	1.173e5	1.24	NO	80.951	80.951
3 Total Hexa-Furans	32.98	8.673e2	7.202e2	1.20	NO	0.48957	0.48957
4 Total Hexa-Furans	32.17	1.952e5	1.596e5	1.22	NO	109.50	109.50
5 Total Hexa-Furans	32.52	7.875e2	4.926e2	1.60	YES	0.04044	0.04044
6 1,2,3,4,7,8-HxCDF	33.63	7.898e2	6.592e2	1.26	NO	4.6020	4.6020
7 1,2,3,6,7,8-HxCDF	33.75	9.772e2	7.972e2	1.23	NO	5.3808	5.3808
8 2,3,4,6,7,8-HxCDF	34.31	1.114e4	8.782e2	1.27	NO	6.1096	6.1096
9 1,2,3,7,8,9-HxCDF	35.21	8.266e2	9.775e2	0.85	YES	0.65852	0.65852
10 Total Hexa-Furans	35.22	1.280e3	6.075e2	2.07	YES	0.41969	0.41969



#	Name	Std Conc	RT	Resp	Ratio	Ratio Flag	IS Resp	Response	Conc.	%Dev	RRF Mean	RRF %RSD	RRF	Divisor
1	20019R2_9						0.000e0	2727.984	250.1		1.082	4.789		10.0

#	Name	Pred RT	RT	w1 Resp	w2 Resp	1*Ratio (Pred)	RA	RA	RA%	Conc
4	46 Total Hexa-Furans	33.50	33.17	1.953e5	1.598e5	1.240	1.22	NO	109.50	199.50
5	46 Total Hexa-Furans	33.58	33.52	7.976e2	4.928e2	1.240	1.68	YES	0.24614	0.00000
6	11 1,2,3,4,7,8-HxCDF	33.61	33.63	7.888e3	6.592e3	1.240	1.20	NO	4.6030	4.6030
7	12 1,2,3,6,7,8-HxCDF	33.75	33.75	9.773e3	7.973e3	1.240	1.23	NO	5.3808	5.3808
8	13 2,3,4,6,7,8-HxCDF	34.33	34.31	1.114e4	8.762e3	1.240	1.27	NO	6.1099	6.1099
9	14 1,2,3,7,8,9-HxCDF	35.16	35.16	5.925e2	4.335e2	1.240	1.34	NO	0.39029	0.39029
10	46 Total Hexa-Furans	33.56	35.22	1.520e3	1.203e3	1.240	1.38	NO	0.61992	0.00000



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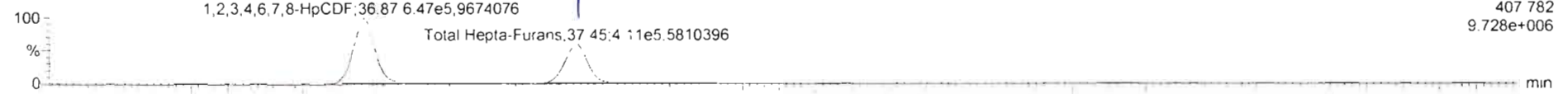
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Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

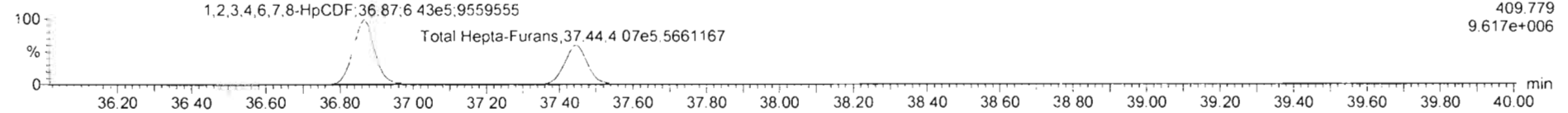
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200319R2_9



F4: Voltage SIR, EI+
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9.728e+006

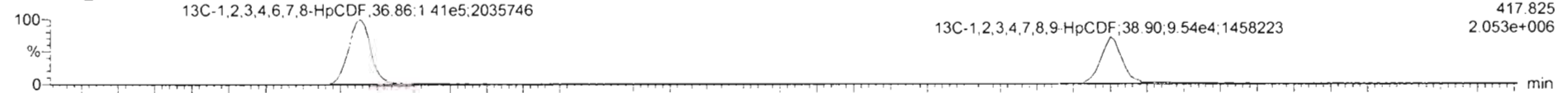
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F4: Voltage SIR, EI+
409.779
9.617e+006

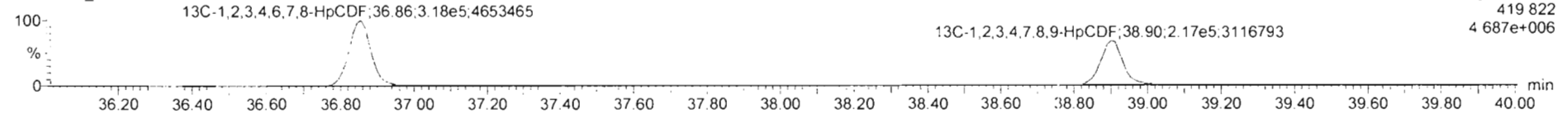
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200319R2_9



F4: Voltage SIR, EI+
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2.053e+006

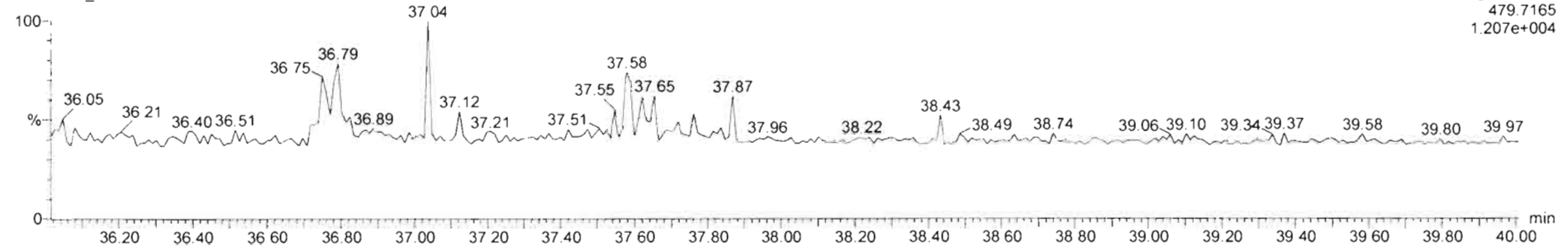
200319R2_9



F4: Voltage SIR, EI+
419.822
4.687e+006

DPE4

200319R2_9

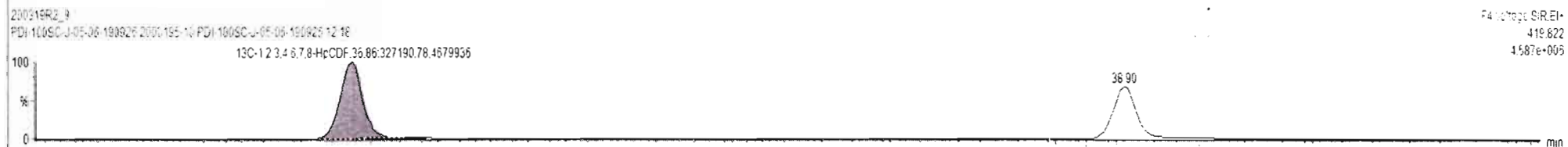
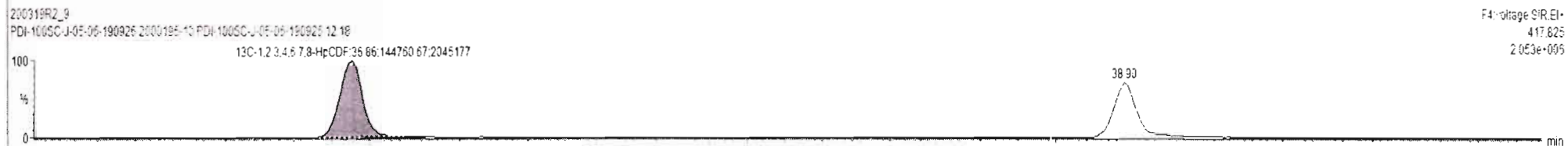
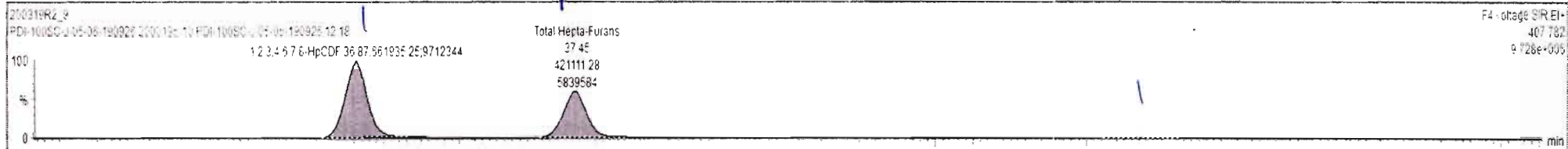


F4: Voltage SIR, EI+
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1.207e+004

200319R2_9 - 2000195-10 PDI-100SC-J-05-06-190926 12.18 - PDI-100SC-J-05-06-190926

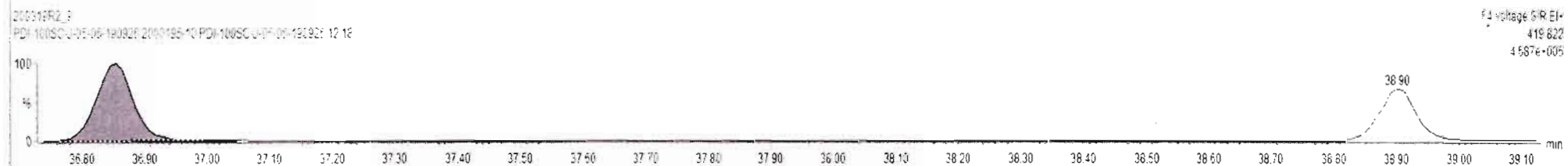
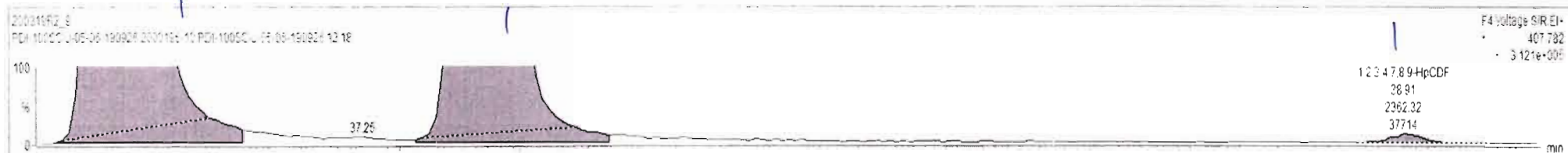
Name	Resp	RA	n1y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
47 Total Hepta-Furans				1.0483	10.013			939		0.542	939

Name	RT	m1 Resp	m2 Resp	RA	n1y	EWPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	36.87	6.619e5	6.592e5	1.01	NO	532.16	532.18
2 Total Hepta-Furans	37.45	4.211e5	4.121e5	1.02	NO	404.70	404.70
3 1,2,3,4,7,8,9-HpCDF	38.91	2.362e5	2.260e5	1.04	NO	2,450.8	2,450.8



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				1.0483	10.013			946		0.542	946
48 P<1											

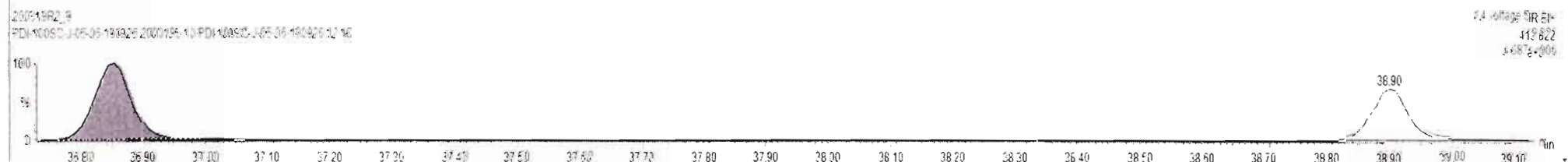
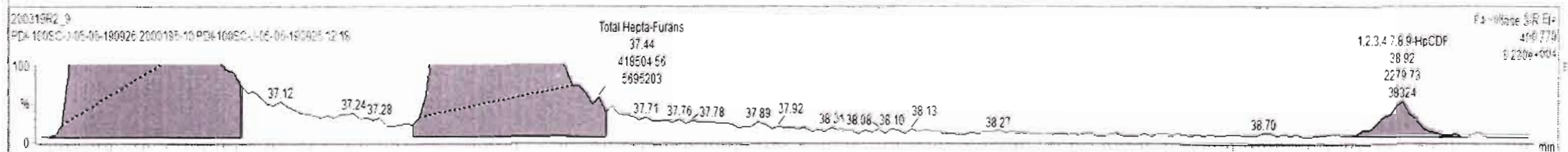
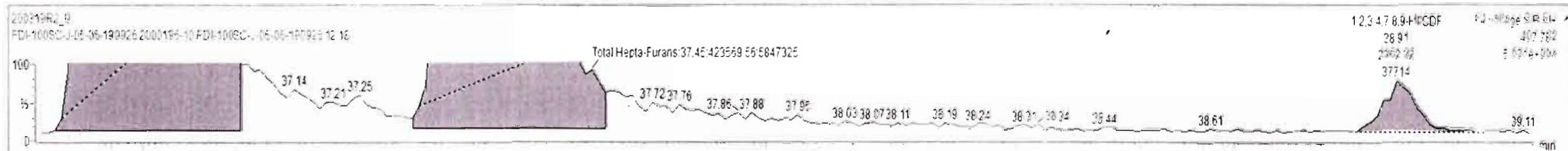
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1.2.3.4.6.7.8-HpCDF	36.87	6.640e5	6.610e5	1.00	NO	534.97	534.97
2 Total Hepta-Furans	37.45	4.236e5	4.177e5	1.01	NO	408.60	408.60
3 1.2.3.4.7.8-HpCDF	38.91	2.362e5	2.280e5	1.04	NO	245.03	245.03



200319R2_9 - 2000195-10 PDI-100SC-J-05-06-190926 12 18 - PDI-100SC-J-05-06-190926

Name	Resp	RA	n/y	RRT	wt%vol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				1.0483	10.013			947		0.542	947
48 PFC1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1.2.3.4.6.7.8-HpCDF	36.87	6.644e5	6.610e5	1.01	NO	576.12	576.12
2 Total Hepta-Furans	37.45	4.236e5	4.165e5	1.01	NO	408.98	408.98
3 1.2.3.4.7.8.9-HpCDF	38.91	2.362e5	2.280e5	1.04	NO	2.450	2.450

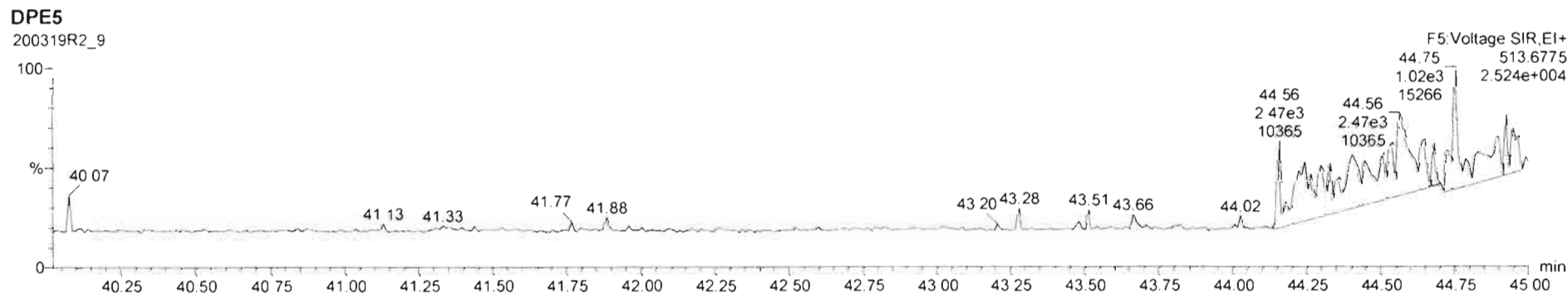
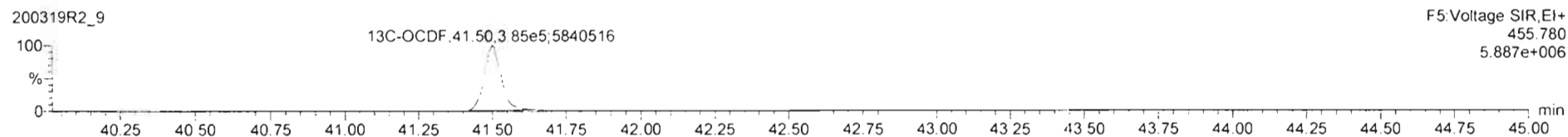
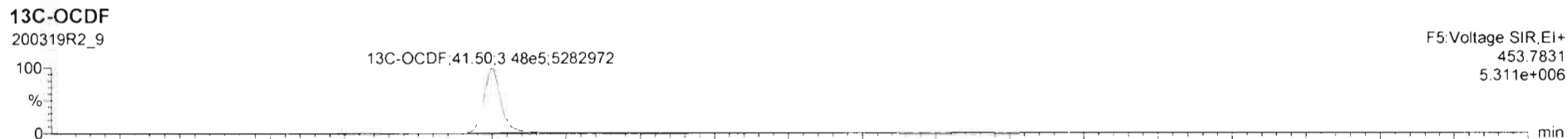
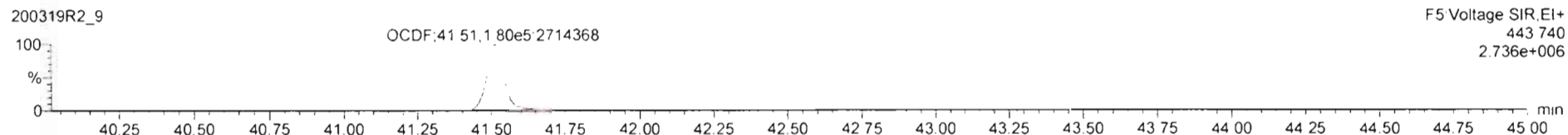
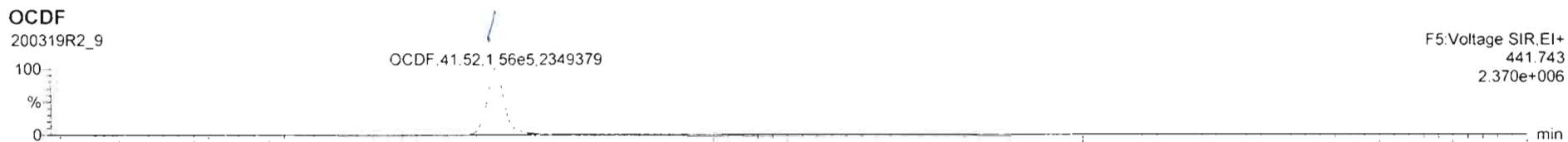


Dataset: Untitled

Last Altered: Friday, March 20, 2020 12:20:22 Pacific Daylight Time

Printed: Friday, March 20, 2020 12:20:36 Pacific Daylight Time

Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926



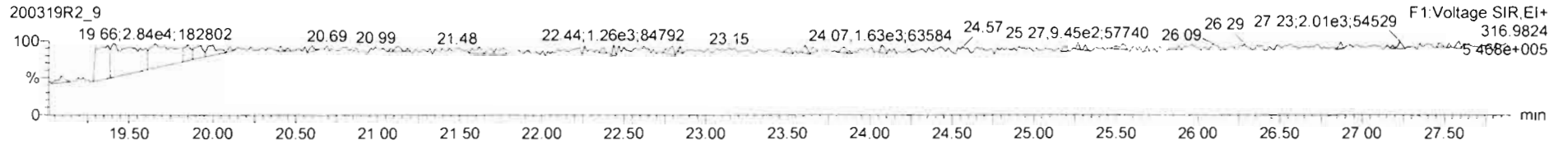
Dataset: Untitled

Last Altered: Friday, March 20, 2020 12:20:22 Pacific Daylight Time

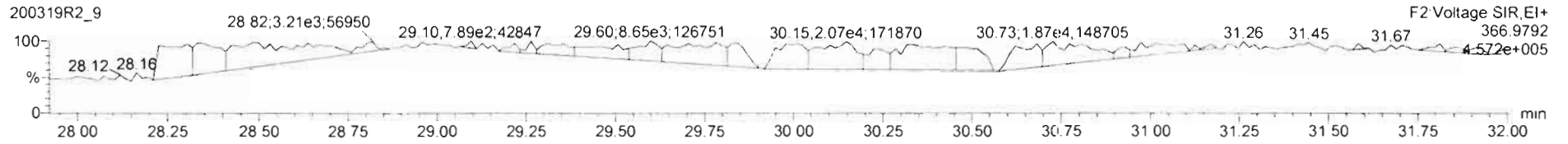
Printed: Friday, March 20, 2020 12:20:36 Pacific Daylight Time

Name: 200319R2_9, Date: 20-Mar-2020, Time: 11:31:23, ID: 2000195-10 PDI-100SC-J-05-06-190926 12.18, Description: PDI-100SC-J-05-06-190926

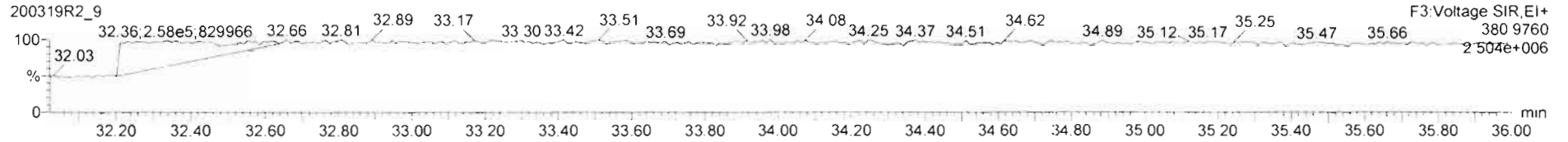
PFK1



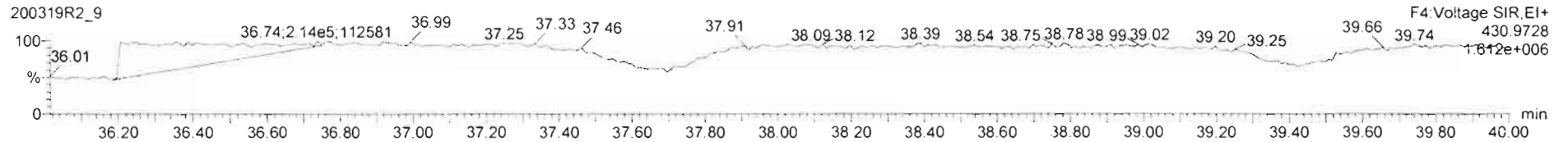
PFK2



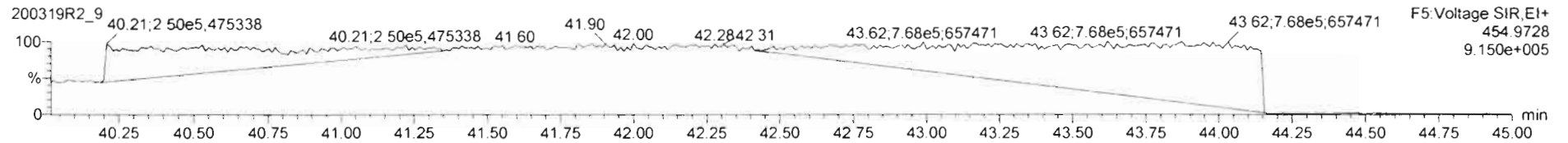
PFK3



PFK4



PFK5



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_13.qld

Last Altered: Wednesday, March 25, 2020 09:28:25 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 09:29:32 Pacific Daylight Time

DB 3/25/20

3/28/20

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

C704/01/2020

Name: 200324D1_13, Date: 24-Mar-2020, Time: 16:43:30, ID: 2000195-05RE1 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.57e3	0.78	NO	0.982	10.019	17.829	17.83	1.000	1.001	3.4481		0.508	3.45
2	2 13C-2,3,7,8-TCDF	9.28e4	0.80	NO	1.08	10.019	17.817	17.81	1.133	1.137	180.82	90.6	1.52	
3	3 13C-1,2,3,4-TCDF	9.46e4	0.79	NO	1.00	10.019	15.660	15.66	1.000	1.000	199.62	100	1.64	

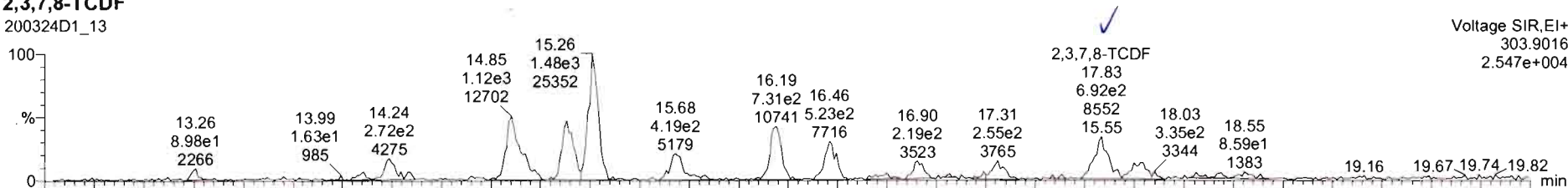
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_13.qld

Last Altered: Wednesday, March 25, 2020 09:28:25 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 09:29:54 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

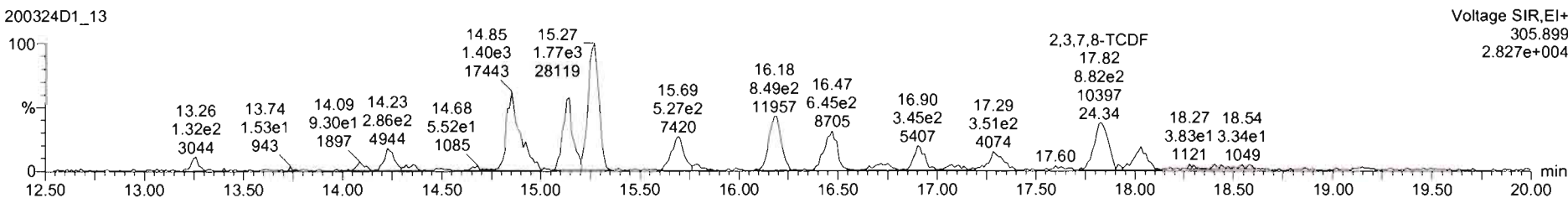
Name: 200324D1_13, Date: 24-Mar-2020, Time: 16:43:30, ID: 2000195-05RE1 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

2,3,7,8-TCDF
200324D1_13



Voltage SIR,EI+
303.9016
2.547e+004

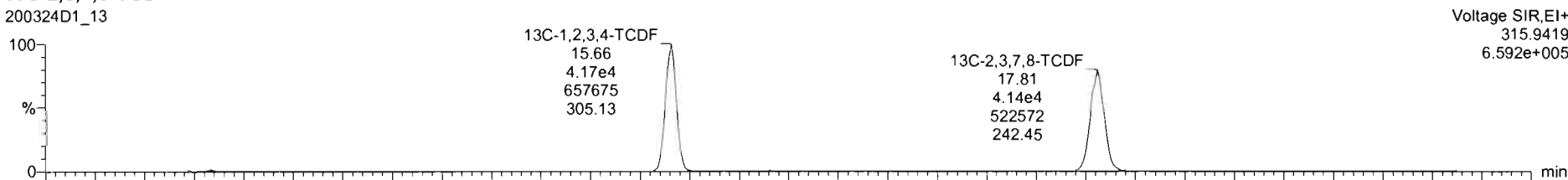
200324D1_13



Voltage SIR,EI+
305.899
2.827e+004

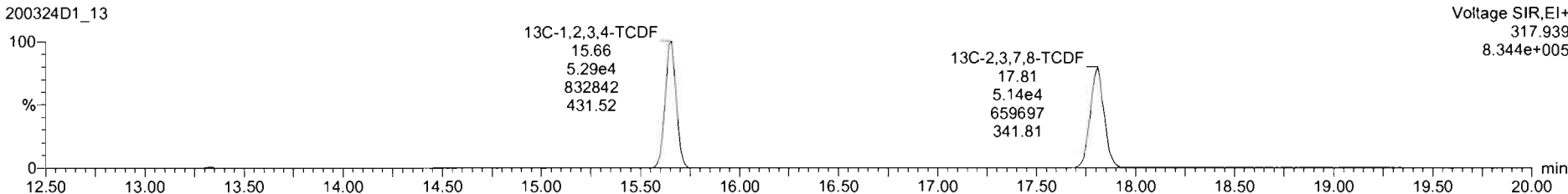
13C-2,3,7,8-TCDF

200324D1_13



Voltage SIR,EI+
315.9419
6.592e+005

200324D1_13



Voltage SIR,EI+
317.939
8.344e+005

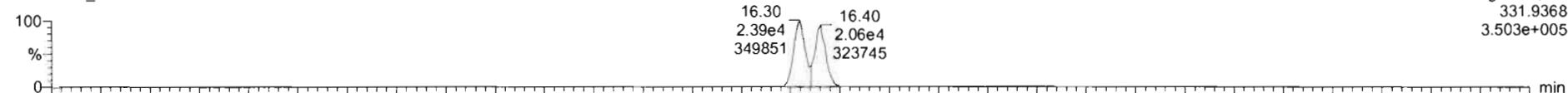
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_13.qld

Last Altered: Wednesday, March 25, 2020 09:28:25 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 09:29:54 Pacific Daylight Time

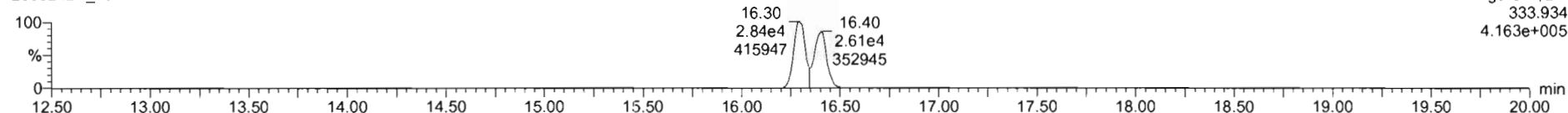
Name: 200324D1_13, Date: 24-Mar-2020, Time: 16:43:30, ID: 2000195-05RE1 PDI-074SC-A-06-07-191012 16.14, Description: PDI-074SC-A-06-07-191012

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

200324D1_13

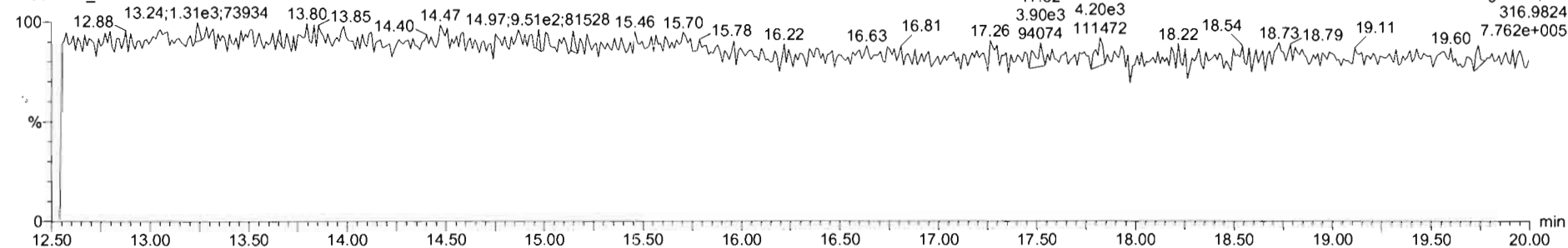


200324D1_13



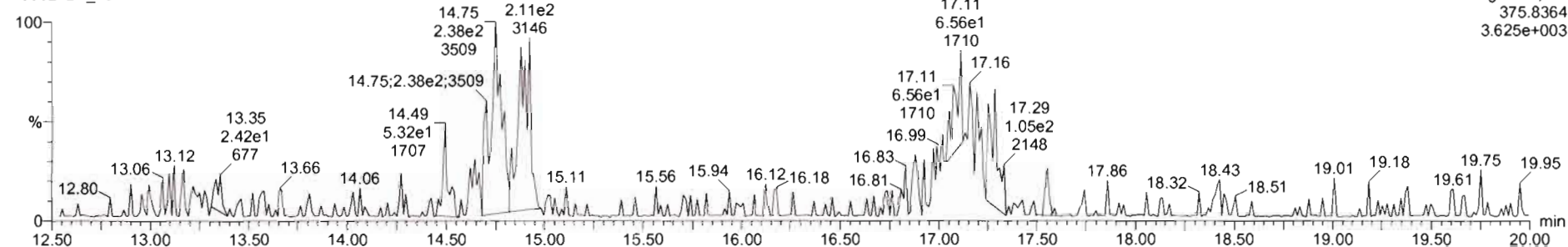
PFK1

200324D1_13



DPE1

200324D1_13



Dataset: U:\VG7.PRO\Results\200325D1\200325D1_4.qld

Last Altered: Wednesday, March 25, 2020 11:46:55 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 11:47:38 Pacific Daylight Time

DB 3/25/20

3/28/20 C104/01/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200325D1_4, Date: 25-Mar-2020, Time: 11:16:58, ID: 2000195-07RE1 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

	#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1	2,3,7,8-TCDF	2.58e2	0.75	NO	0.982	10.004	17.794	17.80	1.000	1.001	0.66469		0.305	0.665
2	2	13C-2,3,7,8-TCDF	7.89e4	0.80	NO	1.08	10.004	17.805	17.77	1.133	1.136	201.35	101	1.20	
3	3	13C-1,2,3,4-TCDF	7.24e4	0.79	NO	1.00	10.004	15.660	15.65	1.000	1.000	199.92	100	1.30	

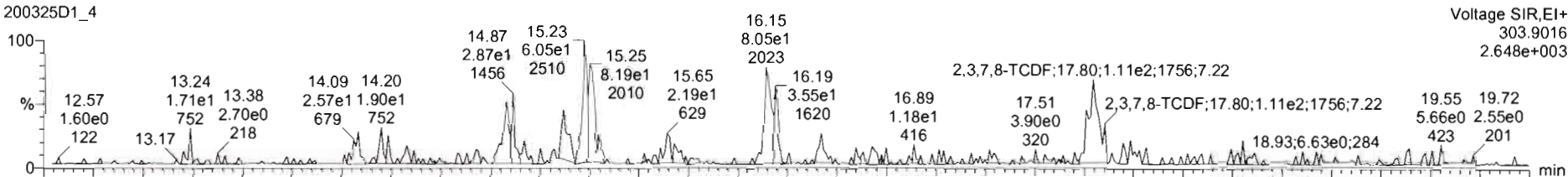
Dataset: U:\VG7.PRO\Results\200325D1\200325D1_4.qld

Last Altered: Wednesday, March 25, 2020 11:45:09 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 11:46:26 Pacific Daylight Time

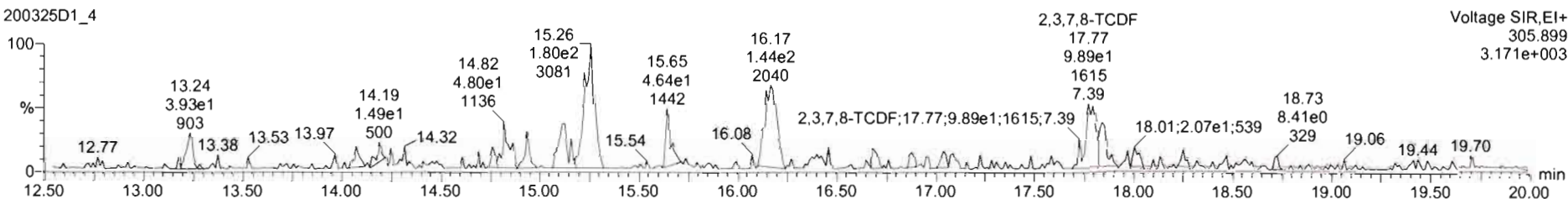
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200325D1_4, Date: 25-Mar-2020, Time: 11:16:58, ID: 2000195-07RE1 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

2,3,7,8-TCDF
200325D1_4

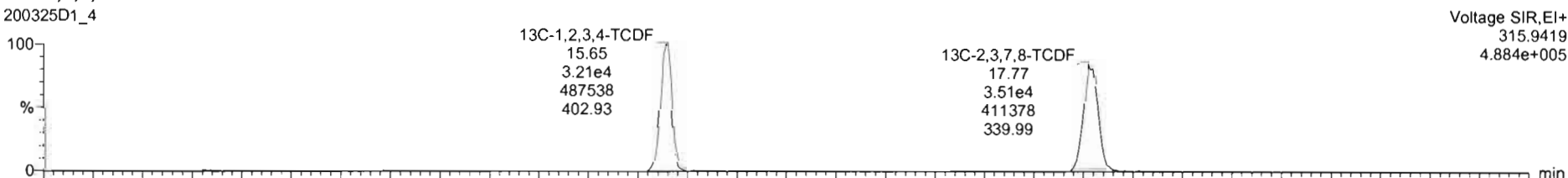


200325D1_4

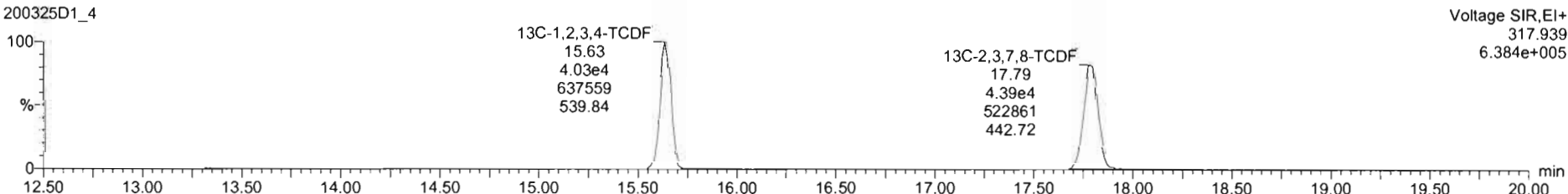


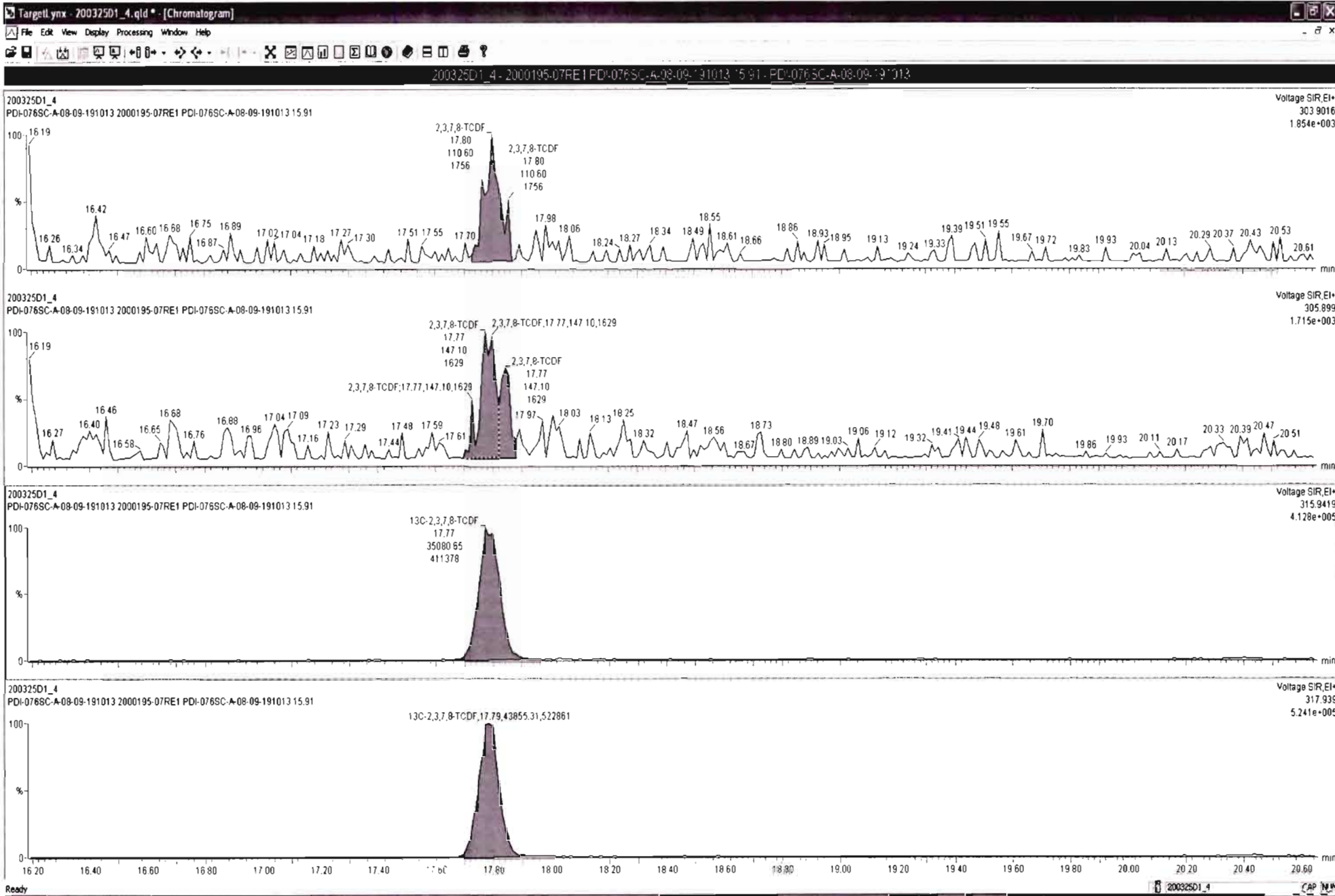
13C-2,3,7,8-TCDF

200325D1_4



200325D1_4





Vista Analytical Laboratory VG-10

Dataset: U:\VG7.PRO\Results\200325D1\200325D1_4.qld

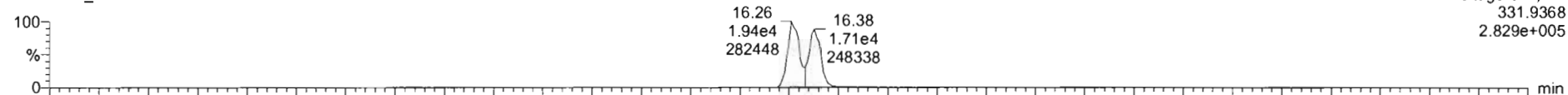
Last Altered: Wednesday, March 25, 2020 11:45:09 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 11:46:26 Pacific Daylight Time

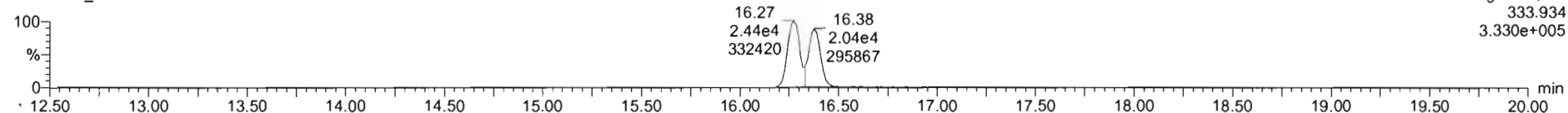
Name: 200325D1_4, Date: 25-Mar-2020, Time: 11:16:58, ID: 2000195-07RE1 PDI-076SC-A-08-09-191013 15.91, Description: PDI-076SC-A-08-09-191013

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

200325D1_4

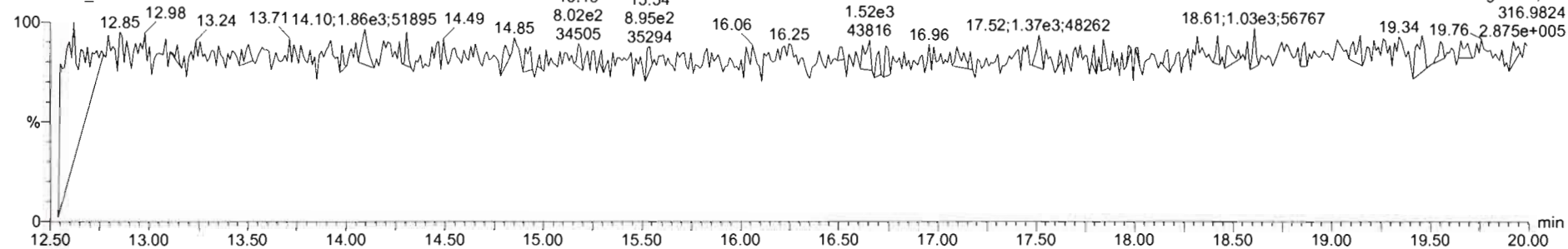


200325D1_4



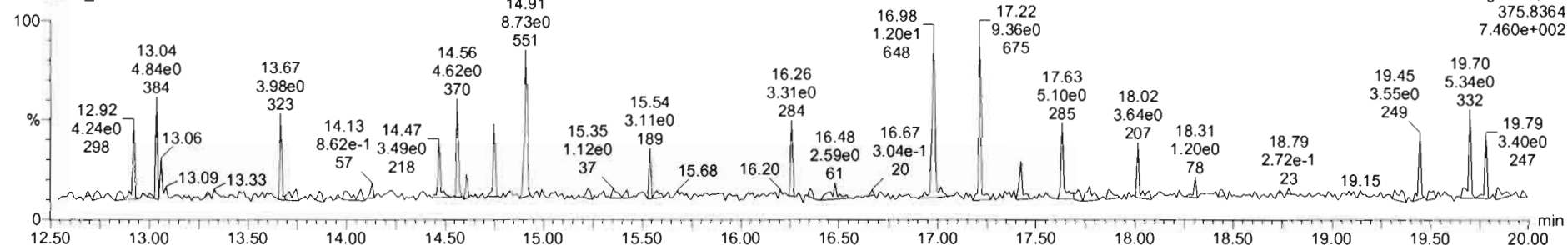
PFK1

200325D1_4



DPE1

200325D1_4



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_15.qld

Last Altered: Wednesday, March 25, 2020 09:31:54 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 09:33:07 Pacific Daylight Time

DB 3/25/20

Q 3/23/20

0704/01/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_15, Date: 24-Mar-2020, Time: 17:46:53, ID: 2000195-08RE1 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	4.86e2	0.83	NO	0.982	10.016	17.806	17.81	1.000	1.001	0.99231		0.406	0.992
2	2 13C-2,3,7,8-TCDF	9.96e4	0.78	NO	1.08	10.016	17.805	17.79	1.133	1.137	211.42	106	1.66	
3	3 13C-1,2,3,4-TCDF	8.69e4	0.81	NO	1.00	10.016	15.660	15.65	1.000	1.000	199.67	100	1.79	

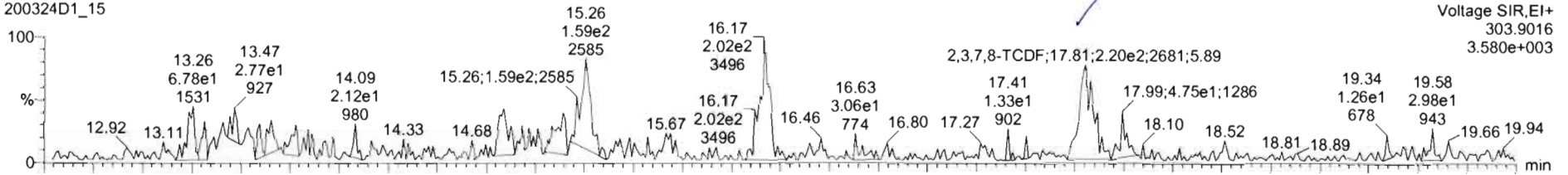
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_15.qld

Last Altered: Wednesday, March 25, 2020 09:31:54 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 09:33:27 Pacific Daylight Time

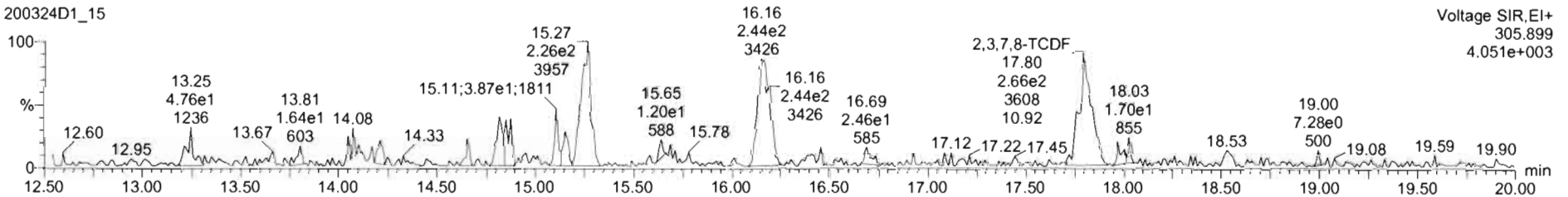
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_15, Date: 24-Mar-2020, Time: 17:46:53, ID: 2000195-08RE1 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

2,3,7,8-TCDF
200324D1_15

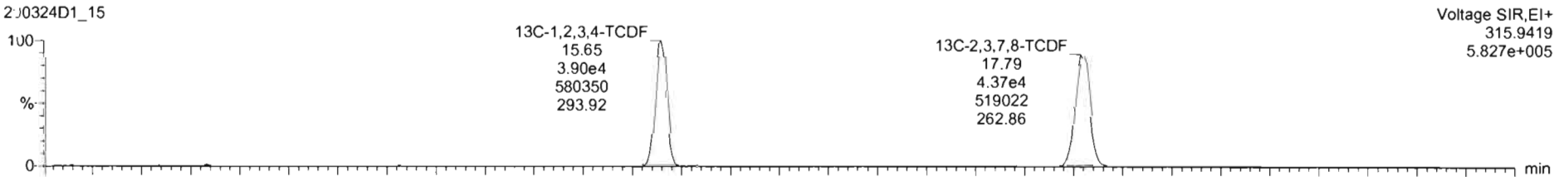


200324D1_15

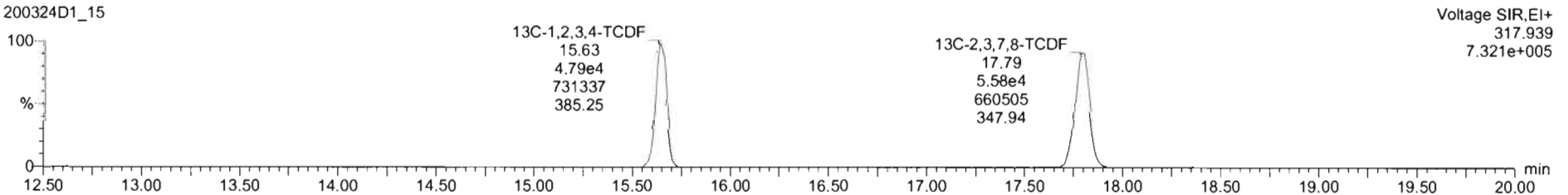


13C-2,3,7,8-TCDF

200324D1_15



200324D1_15



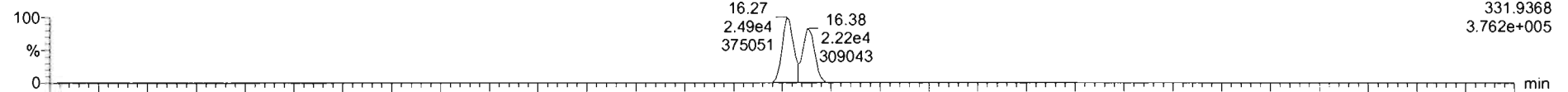
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_15.qld

Last Altered: Wednesday, March 25, 2020 09:31:54 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 09:33:27 Pacific Daylight Time

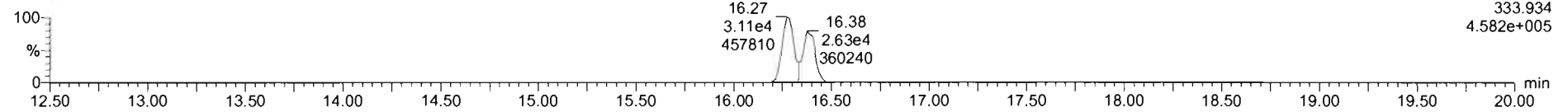
Name: 200324D1_15, Date: 24-Mar-2020, Time: 17:46:53, ID: 2000195-08RE1 PDI-076SC-A-09-10-191013 14.22, Description: PDI-076SC-A-09-10-191013

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

200324D1_15

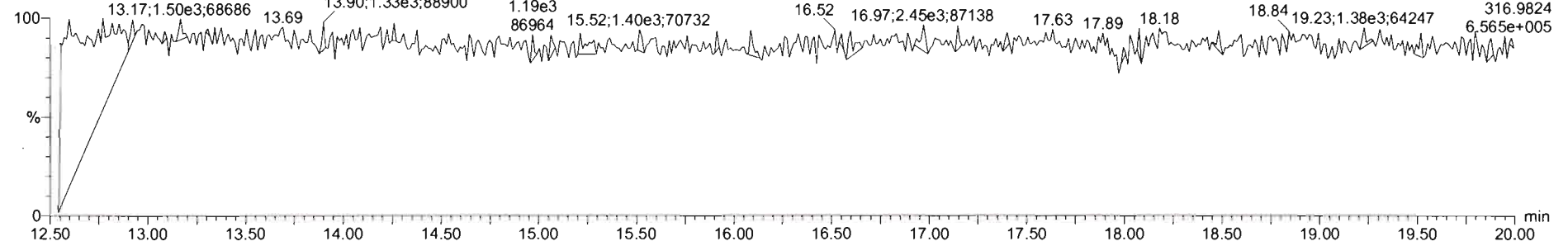


200324D1_15



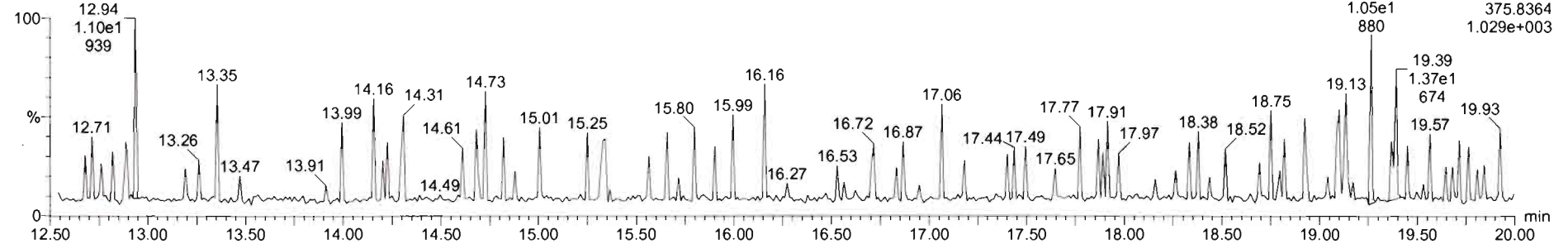
PFK1

200324D1_15



DPE1

200324D1_15



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_16.qld

Last Altered: Wednesday, March 25, 2020 09:36:22 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 09:37:08 Pacific Daylight Time

DB 3/25/20

3/28/20 C104/01/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_16, Date: 24-Mar-2020, Time: 18:18:36, ID: 2000195-09RE1 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	2.85e2	0.71	NO	0.982	10.002	17.806	17.79	1.000	1.000	0.49966		0.412	0.500
2	2 13C-2,3,7,8-TCDF	1.16e5	0.77	NO	1.08	10.002	17.794	17.79	1.133	1.138	208.40	104	1.24	
3	3 13C-1,2,3,4-TCDF	1.03e5	0.80	NO	1.00	10.002	15.660	15.63	1.000	1.000	199.96	100	1.34	

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_16.qld

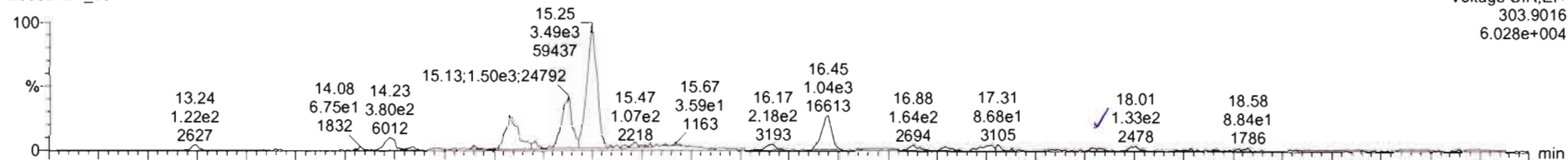
Last Altered: Wednesday, March 25, 2020 09:34:33 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 09:35:51 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\lb-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_16, Date: 24-Mar-2020, Time: 18:18:36, ID: 2000195-09RE1 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

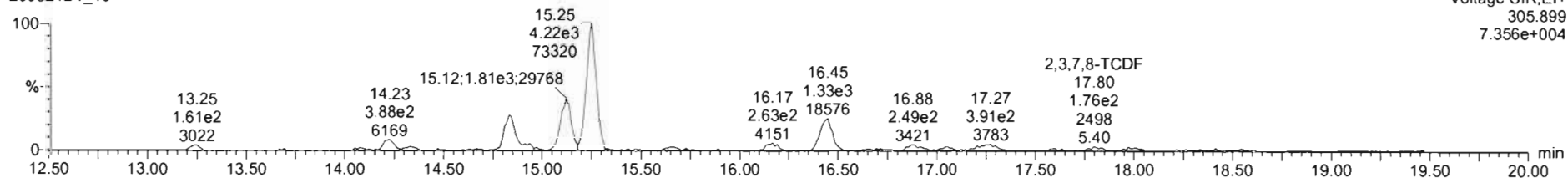
2,3,7,8-TCDF

200324D1_16



Voltage SIR,EI+
303.9016
6.028e+004

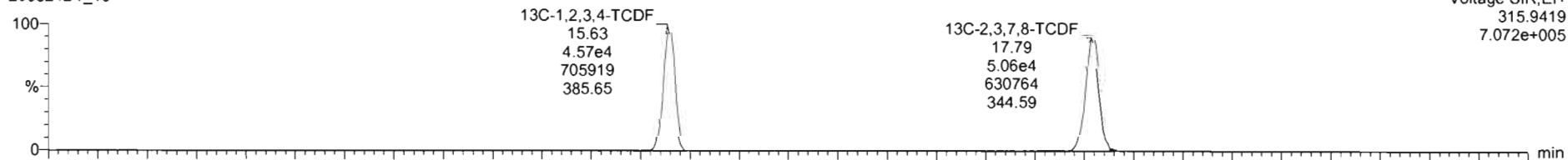
200324D1_16



Voltage SIR,EI+
305.899
7.356e+004

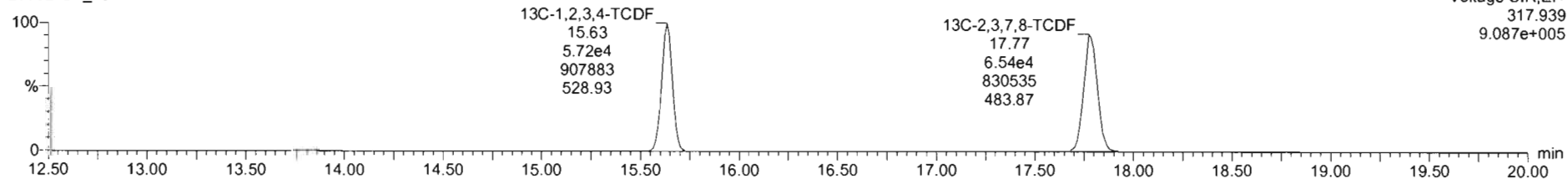
13C-2,3,7,8-TCDF

200324D1_16

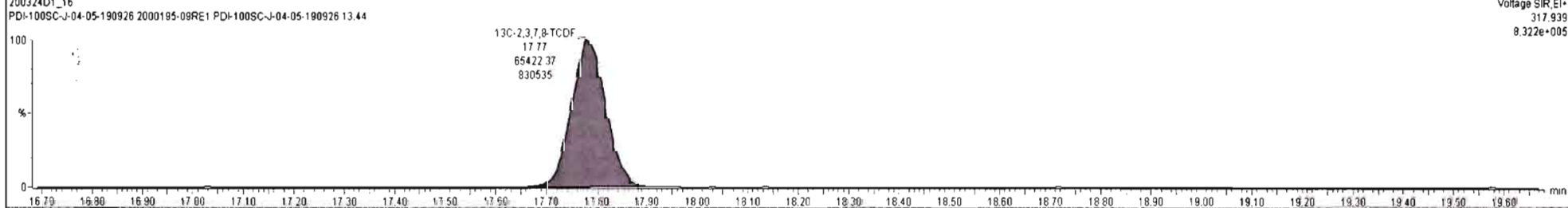
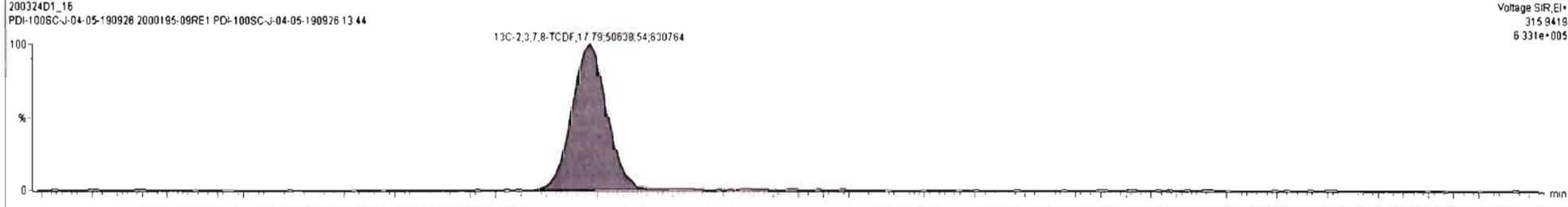
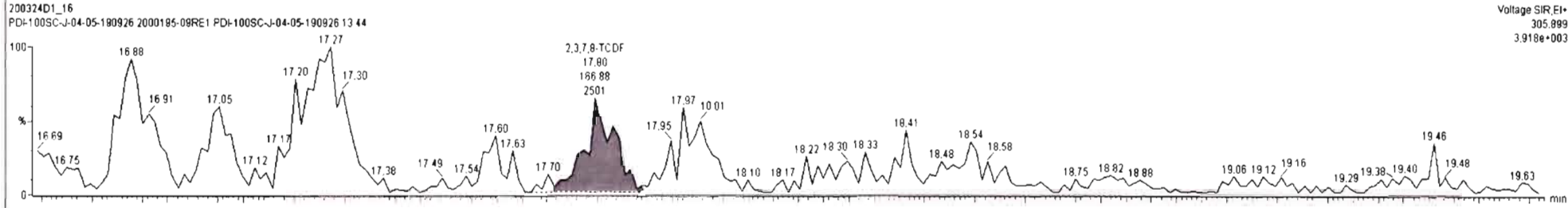
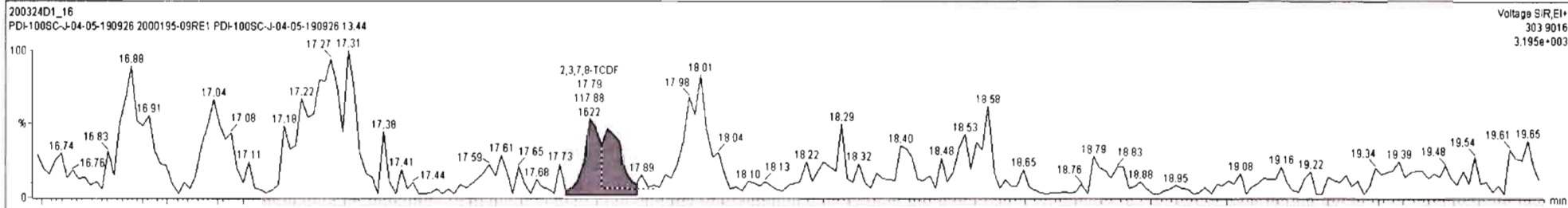


Voltage SIR,EI+
315.9419
7.072e+005

200324D1_16



Voltage SIR,EI+
317.939
9.087e+005



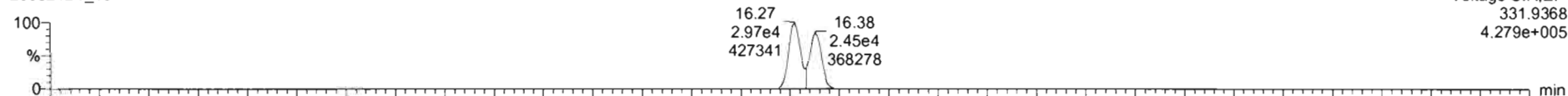
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_16.qld

Last Altered: Wednesday, March 25, 2020 09:34:33 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 09:35:51 Pacific Daylight Time

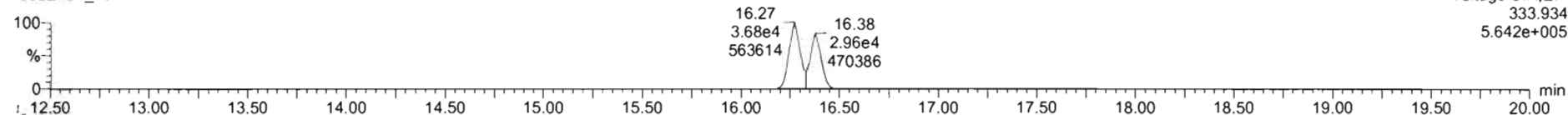
Name: 200324D1_16, Date: 24-Mar-2020, Time: 18:18:36, ID: 2000195-09RE1 PDI-100SC-J-04-05-190926 13.44, Description: PDI-100SC-J-04-05-190926

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

200324D1_16

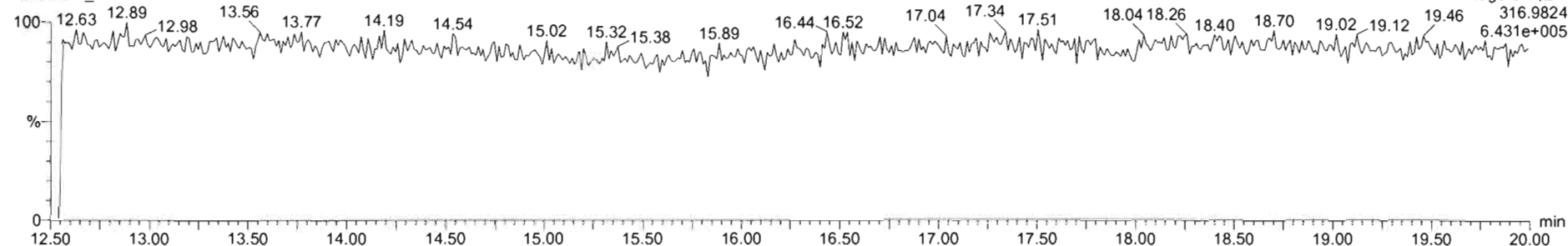


200324D1_16



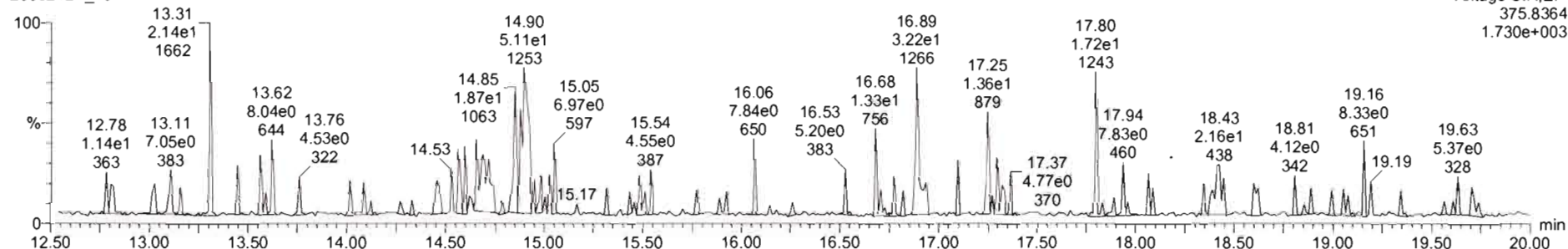
PFK1

200324D1_16



DPE1

200324D1_16



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200319R1-2

Reviewed By: CJ 03/20/2020
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>	<u> </u>
<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> </u>

Mass resolution >

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
-------------------------------------	------------------------------------

NA

Dataset: U:\VG12.PRO\Results\200319R1\200319R1-2.qld

Last Altered: Friday, March 20, 2020 07:32:19 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:33:16 Pacific Daylight Time

GRB 03/18/2020

C7 03/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 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	7.44e4	8.38e5	0.76	NO	0.983	25.80	25.80	NO	1.001	1.001	9.0225	90.2	NO
2	2 1,2,3,7,8-PeCDD	2.66e5	6.07e5	0.62	NO	0.921	31.09	31.08	NO	1.001	1.000	47.654	95.3	NO
3	3 1,2,3,4,7,8-HxCDD	2.44e5	4.59e5	1.26	NO	1.13	34.49	34.49	NO	1.000	1.000	46.982	94.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.52e5	5.72e5	1.25	NO	0.984	34.58	34.59	NO	1.000	1.000	44.743	89.5	NO
5	5 1,2,3,7,8,9-HxCDD	2.32e5	5.19e5	1.21	NO	0.967	34.85	34.85	NO	1.000	1.000	46.172	92.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	2.01e5	4.40e5	1.02	NO	1.01	38.27	38.28	NO	1.000	1.001	45.529	91.1	NO
7	7 OCDD	4.02e5	8.54e5	0.89	NO	1.05	41.33	41.34	NO	1.000	1.000	89.475	89.5	NO
8	8 2,3,7,8-TCDF	8.50e4	1.10e6	0.74	NO	0.915	24.79	24.79	NO	1.001	1.001	8.4712	84.7	NO
9	9 1,2,3,7,8-PeCDF	3.94e5	8.92e5	1.56	NO	0.959	29.74	29.74	NO	1.001	1.001	46.060	92.1	NO
10	10 2,3,4,7,8-PeCDF	3.93e5	8.47e5	1.53	NO	1.00	30.79	30.77	NO	1.001	1.000	46.261	92.5	NO
11	11 1,2,3,4,7,8-HxCDF	2.84e5	6.03e5	1.22	NO	1.04	33.63	33.64	NO	1.000	1.000	45.427	90.9	NO
12	12 1,2,3,6,7,8-HxCDF	3.09e5	6.67e5	1.23	NO	1.01	33.76	33.76	NO	1.000	1.000	45.765	91.5	NO
13	13 2,3,4,6,7,8-HxCDF	3.01e5	6.18e5	1.19	NO	1.09	34.34	34.32	NO	1.001	1.000	44.647	89.3	NO
14	14 1,2,3,7,8,9-HxCDF	2.41e5	5.18e5	1.21	NO	1.03	35.18	35.19	NO	1.000	1.000	45.397	90.8	NO
15	15 1,2,3,4,6,7,8-HpCDF	2.47e5	5.19e5	0.99	NO	1.05	36.90	36.89	NO	1.001	1.001	45.357	90.7	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.90e5	3.50e5	1.03	NO	1.21	38.91	38.93	NO	1.000	1.001	44.905	89.8	NO
17	17 OCDF	4.20e5	9.86e5	0.88	NO	0.947	41.50	41.51	NO	1.000	1.000	89.952	90.0	NO
18	18 13C-2,3,7,8-TCDD	8.38e5	7.15e5	0.77	NO	1.18	25.75	25.77	NO	1.029	1.029	98.980	99.0	NO
19	19 13C-1,2,3,7,8-PeCDD	6.07e5	7.15e5	0.63	NO	0.864	30.94	31.06	NO	1.236	1.241	98.166	98.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	4.59e5	6.17e5	1.26	NO	0.754	34.48	34.48	NO	1.014	1.014	98.777	98.8	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.72e5	6.17e5	1.26	NO	0.925	34.59	34.58	NO	1.017	1.017	100.26	100	NO
22	22 13C-1,2,3,7,8,9-HxCDD	5.19e5	6.17e5	1.25	NO	0.829	34.86	34.84	NO	1.025	1.024	101.36	101	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.40e5	6.17e5	1.04	NO	0.598	38.32	38.26	NO	1.127	1.125	119.15	119	NO
24	24 13C-OCDD	8.54e5	6.17e5	0.89	NO	0.571	41.47	41.33	NO	1.219	1.215	242.31	121	NO
25	25 13C-2,3,7,8-TCDF	1.10e6	1.05e6	0.77	NO	1.09	24.77	24.76	NO	0.990	0.989	96.189	96.2	NO
26	26 13C-1,2,3,7,8-PeCDF	8.92e5	1.05e6	1.57	NO	0.876	29.61	29.72	NO	1.183	1.187	97.189	97.2	NO
27	27 13C-2,3,4,7,8-PeCDF	8.47e5	1.05e6	1.60	NO	0.844	30.62	30.76	NO	1.223	1.229	95.949	95.9	NO
28	28 13C-1,2,3,4,7,8-HxCDF	6.03e5	6.17e5	0.51	NO	1.00	33.63	33.63	NO	0.989	0.989	97.759	97.8	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.67e5	6.17e5	0.51	NO	1.12	33.74	33.75	NO	0.992	0.992	96.726	96.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	6.18e5	6.17e5	0.51	NO	1.04	34.32	34.31	NO	1.009	1.009	96.768	96.8	NO
31	31 13C-1,2,3,7,8,9-HxCDF	5.18e5	6.17e5	0.50	NO	0.873	35.20	35.18	NO	1.035	1.034	96.135	96.1	NO

Dataset: U:\VG12 PRO\Results\200319R1\200319R1-2.qld

Last Altered: Friday, March 20, 2020 07:32:19 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:33:16 Pacific Daylight Time

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 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	5.19e5	6.17e5	0.44	NO	0.771	36.91	36.87	NO	1.085	1.084	109.14	109	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.50e5	6.17e5	0.44	NO	0.519	39.00	38.91	NO	1.147	1.144	109.34	109	NO
34	34 13C-OCDF	9.86e5	6.17e5	0.87	NO	0.696	41.65	41.50	NO	1.225	1.220	229.49	115	NO
35	35 37Cl-2,3,7,8-TCDD	7.80e4	7.15e5			1.17	25.76	25.78	NO	1.029	1.030	9.2878	92.9	NO
36	36 13C-1,2,3,4-TCDD	7.15e5	7.15e5	0.80	NO	1.00	25.05	25.03	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.05e6	1.05e6	0.78	NO	1.00	23.19	23.09	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	6.17e5	6.17e5	0.51	NO	1.00	33.88	34.01	NO	1.000	1.000	100.00	100	YES <i>ok</i>
39	39 Total Tetra-Dioxins		8.38e5			0.983	24.62		NO	0.000		80.091		NO
40	40 Total Penta-Dioxins		6.07e5			0.921	29.96		NO	0.000		213.07		NO
41	41 Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		225.46		NO
42	42 Total Hepta-Dioxins		4.40e5			1.01	37.64		NO	0.000		127.10		NO
43	43 Total Tetra-Furans		1.10e6			0.915	23.61		NO	0.000		41.677		NO
44	44 1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		89.312		NO
45	45 Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		159.60		NO
46	46 Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		254.91		NO
47	47 Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		90.446		NO

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:40:32 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:40:36 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Compound name: 2,3,7,8-TCDD

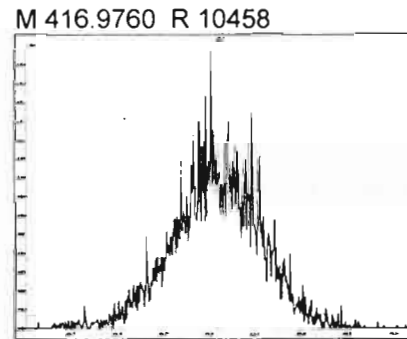
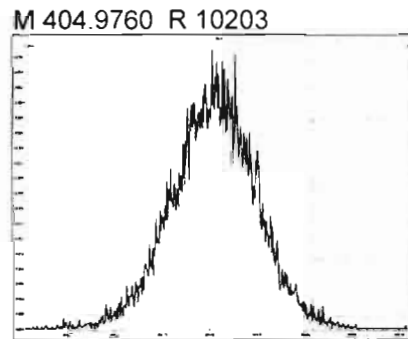
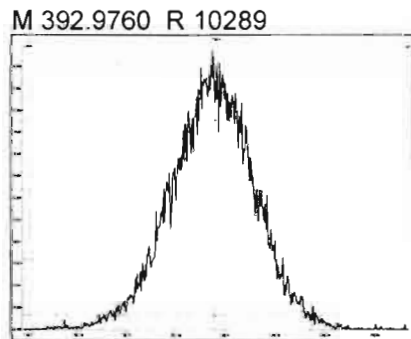
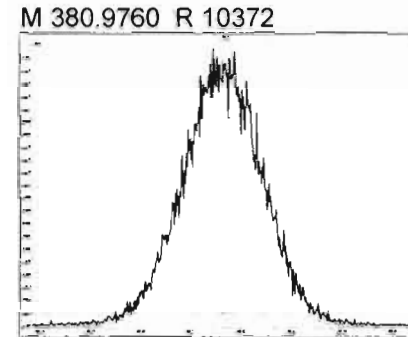
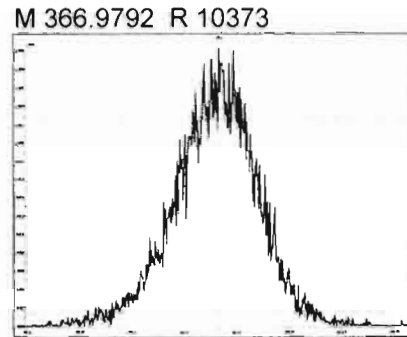
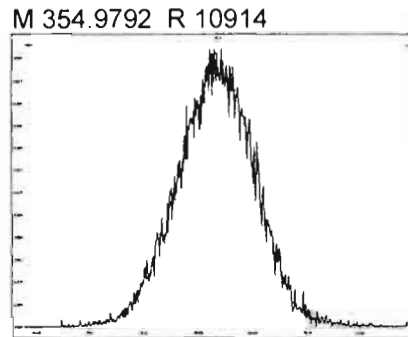
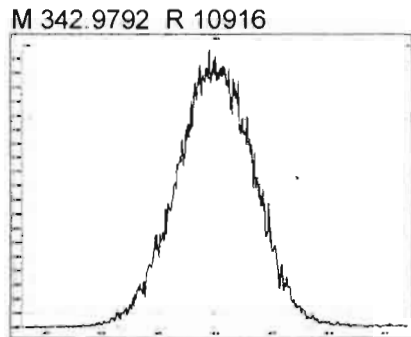
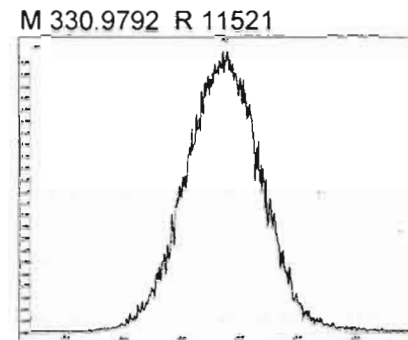
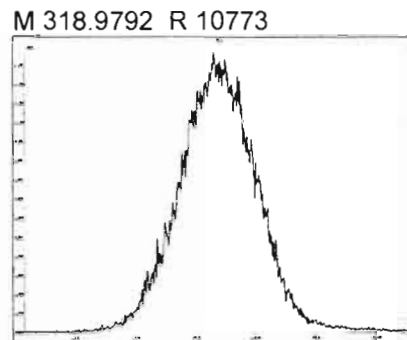
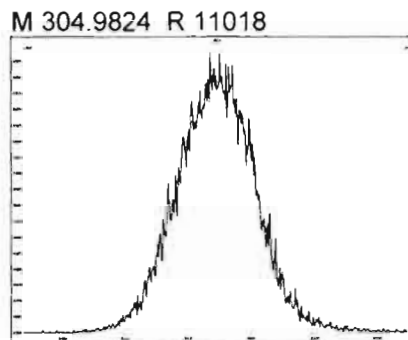
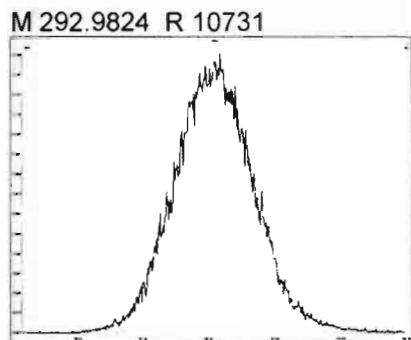
	Name	ID	Acq.Date	Acq.Time
1	(A) 200319R1_1	ST200319R1_1 1613 CS3 19L2305	19-Mar-20	16:18:06
2	(B) 200319R1_2	ST200319R1_2 1613 CS3 19L2305	19-Mar-20	17:08:32
3	200319R1_3	B0B0187-BS1 OPR 10	19-Mar-20	17:54:46
4	200319R1_4	B0C0040-BS1 OPR 10	19-Mar-20	18:42:22
5	200319R1_5	SOLVENT BLANK	19-Mar-20	19:30:06
6	200319R1_6	B0B0187-BLK1 Method Blank 10	19-Mar-20	20:17:51
7	200319R1_7	B0C0040-BLK1 Method Blank 10	19-Mar-20	21:05:36
8	200319R1_8	2000440-05 PDI-066SC-A-13-14-191011 17.4	19-Mar-20	21:53:14
9	200319R1_9	B0B0187-DUP1 Duplicate 12.19	19-Mar-20	22:40:53
10	200319R1_10	2000195-01 PDI-062SC-A-10-11-191023 12.2	19-Mar-20	23:28:38
11	200319R1_11	2000195-02 PDI-066SC-A-07-08-191011 16.75	20-Mar-20	00:16:22
12	200319R1_12	2000195-03 PDI-066SC-A-08-09-191011 17.12	20-Mar-20	01:04:01
13	200319R1_13	2000195-04 PDI-067SC-A-06-07-191010 13.34	20-Mar-20	01:51:41
14	200319R1_14	1903654-05RE3@5X PDI-075SC-B-00-02-191...	20-Mar-20	02:39:26
15	200319R1_15	1903654-08RE3@5X PDI-075SC-B-06-08-191...	20-Mar-20	03:27:05
16	200319R1_16	1903654-11RE3@5X PDI-076SC-B-05-07-191...	20-Mar-20	04:14:45

(A) USED TO ADJUST WINDOWS

(B) USED FOR RUN

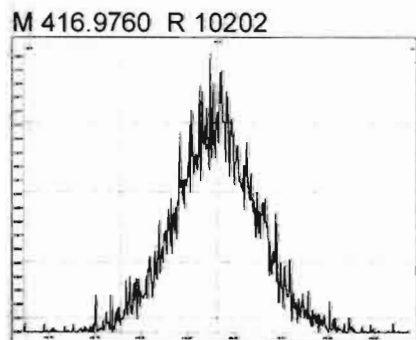
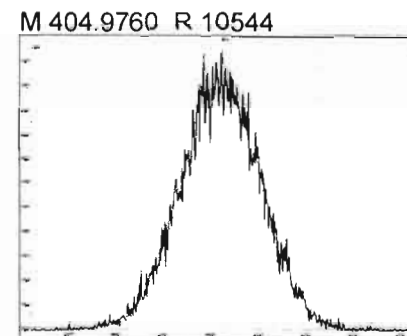
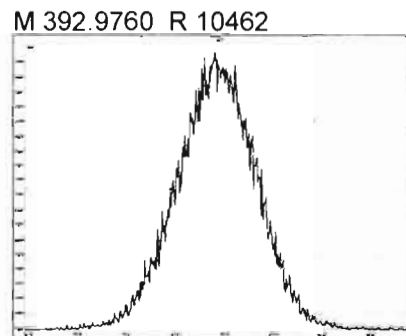
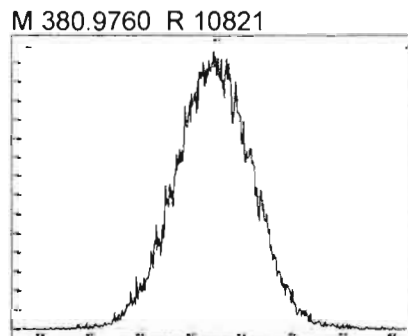
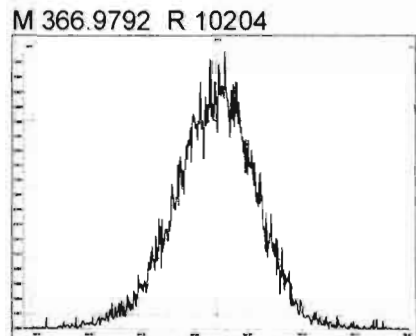
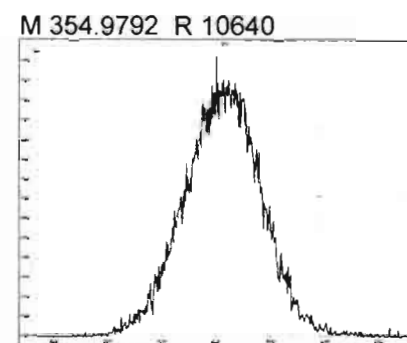
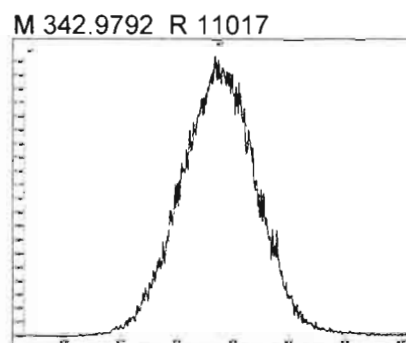
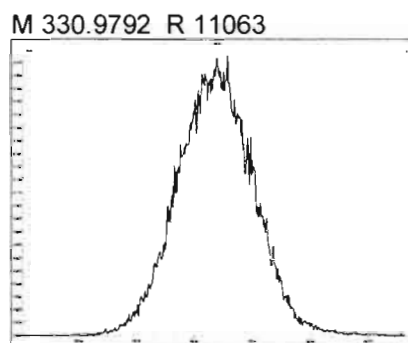
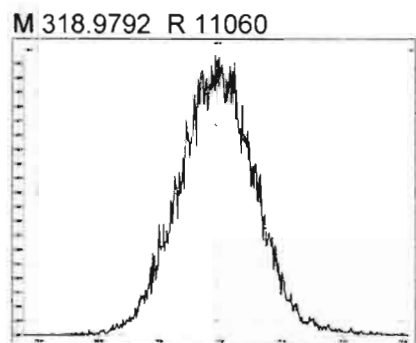
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Printed: Thursday, March 19, 2020 16:12:39 Pacific Daylight Time



File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 2 @ 200 (ppm)

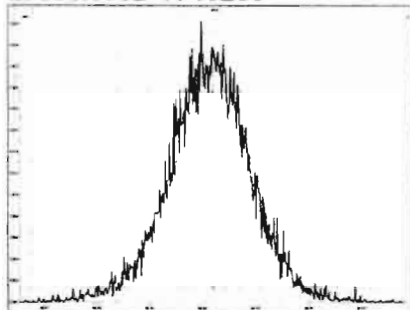
Printed: Thursday, March 19, 2020 16:13:31 Pacific Daylight Time



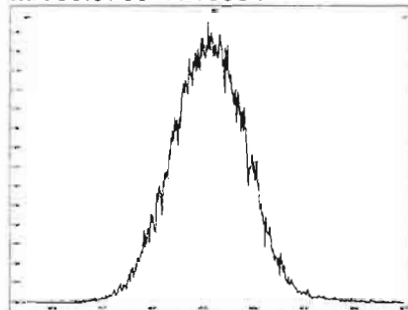
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Printed: Thursday, March 19, 2020 16:14:09 Pacific Daylight Time

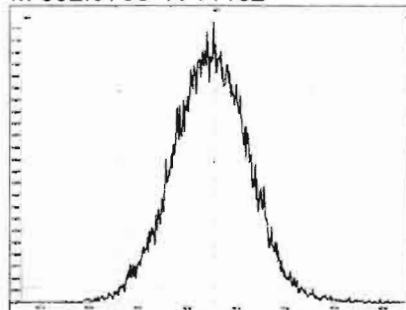
M 366.9792 R 10288



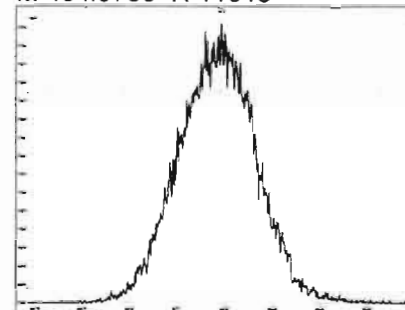
M 380.9760 R 10964



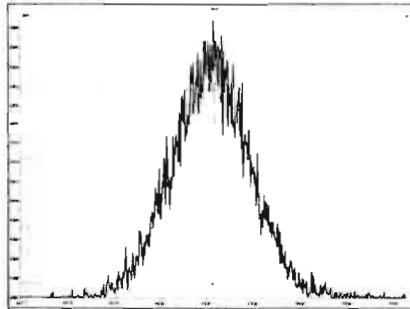
M 392.9760 R 11162



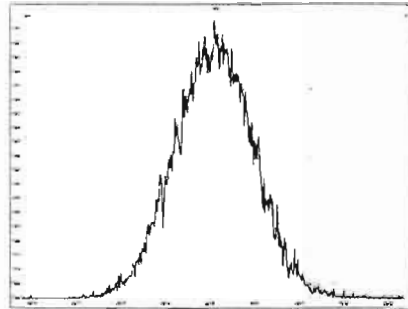
M 404.9760 R 11013



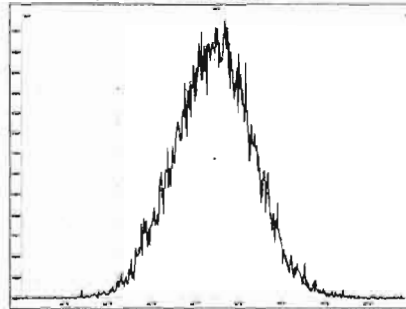
M 416.9760 R 11523



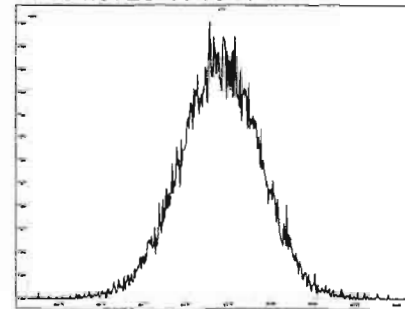
M 430.9728 R 10635



M 442.9728 R 10592

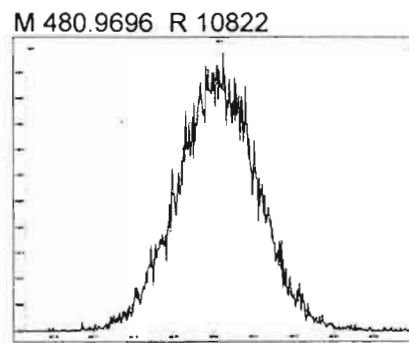
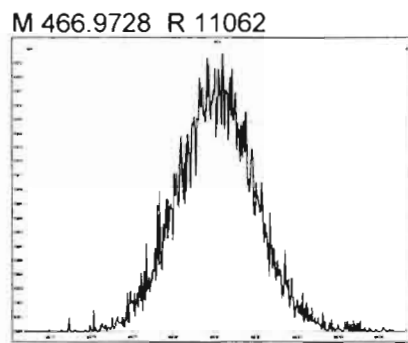
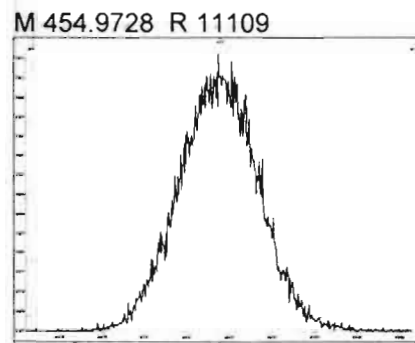
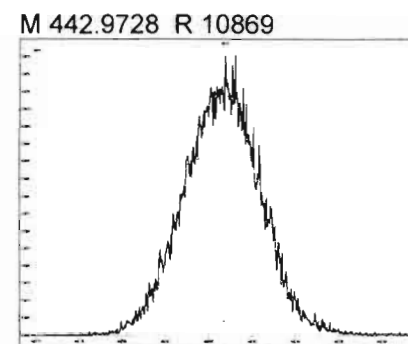
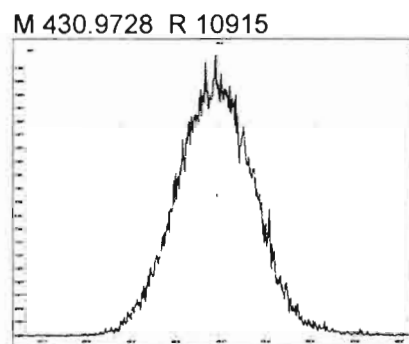
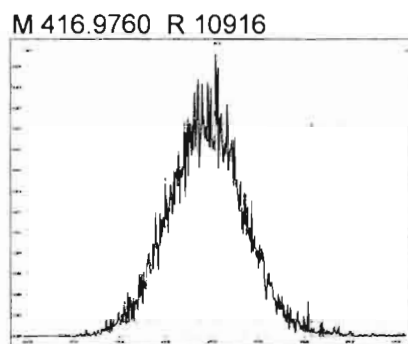
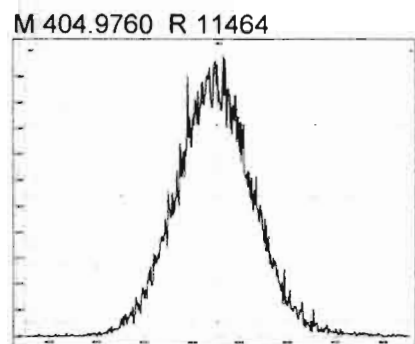


M 454.9728 R 10414



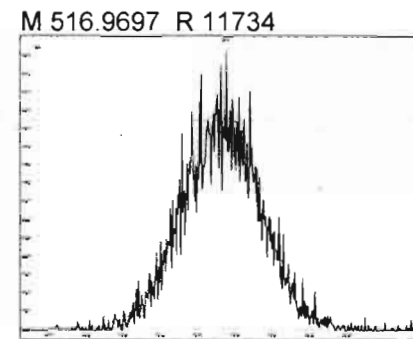
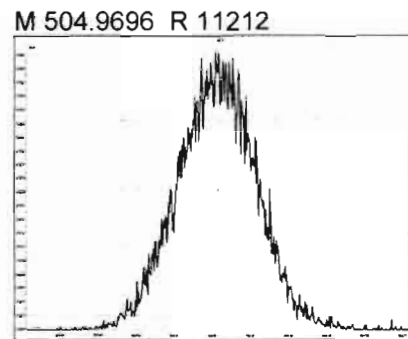
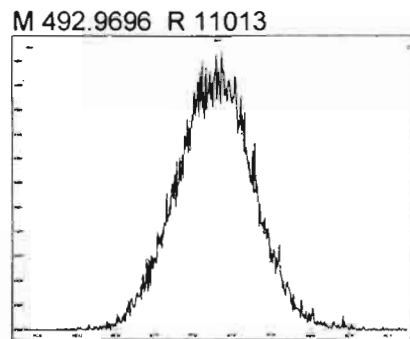
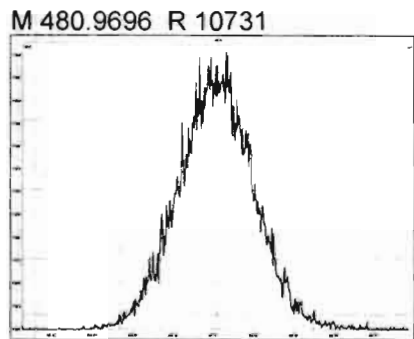
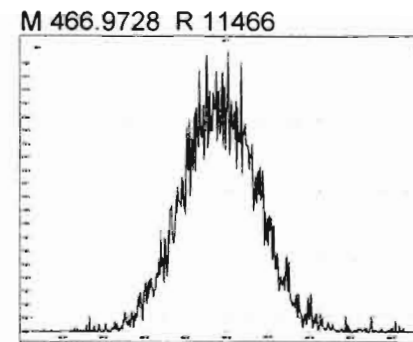
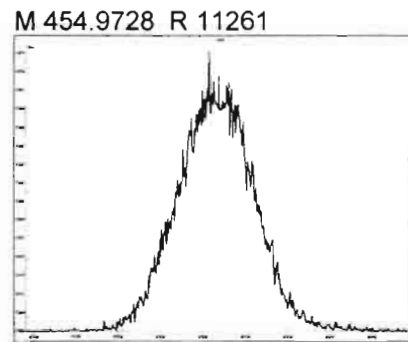
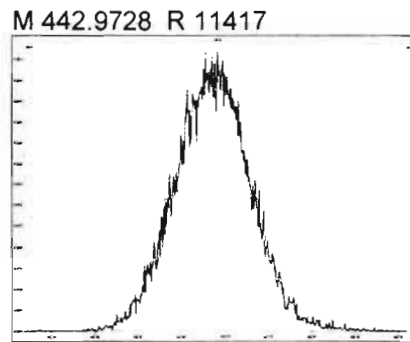
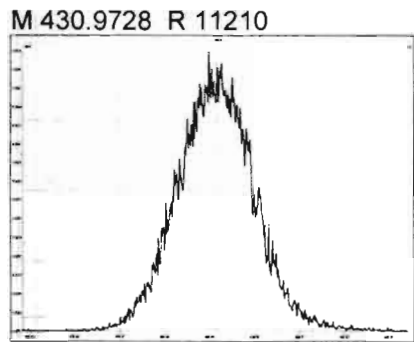
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, March 19, 2020 16:14:39 Pacific Daylight Time



File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, March 19, 2020 16:15:29 Pacific Daylight Time



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:35:30 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:38:43 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.39
2	2 1,2,8,9-TCDD (Last)	26.83
3	3 1,2,4,7,9-PeCDD (First)	28.76
4	4 1,2,3,8,9-PeCDD (Last)	31.48
5	5 1,2,4,6,7,9-HxCDD (First)	33.02
6	6 1,2,3,7,8,9-HxCDD (Last)	34.85
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.26
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.28
9	9 1,3,6,8-TCDF (First)	19.39
10	10 1,2,8,9-TCDF (Last)	26.99
11	11 1,3,4,6,8-PeCDF (First)	26.96
12	12 1,2,3,8,9-PeCDF (Last)	31.74
13	13 1,2,3,4,6,8-HxCDF (First)	32.45
14	14 1,2,3,7,8,9-HxCDF (Last)	35.19
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.89
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.93

Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:35:30 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:38:43 Pacific Daylight Time

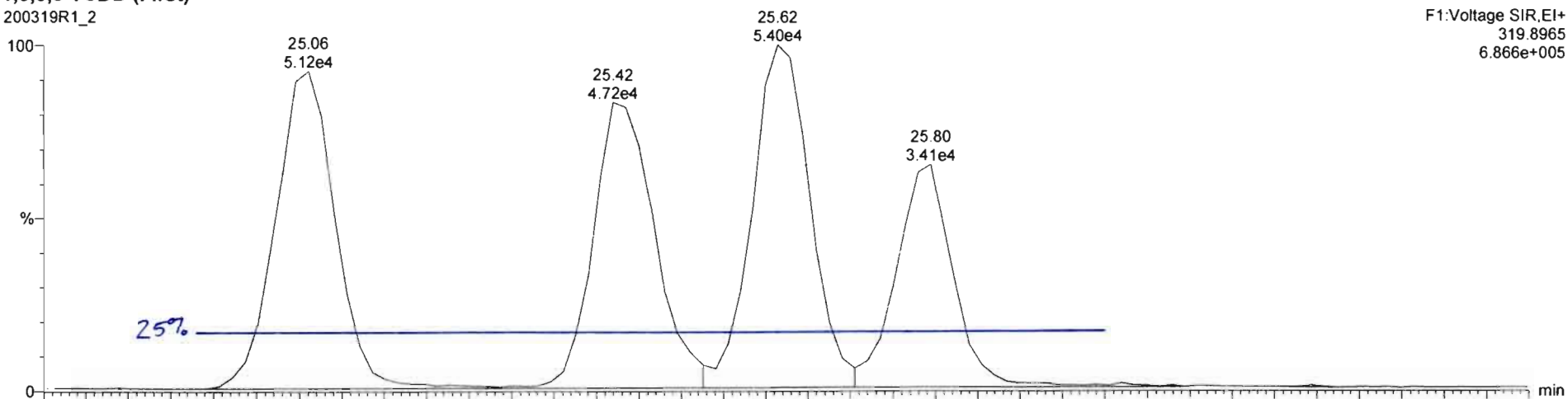
GRB 03/20/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

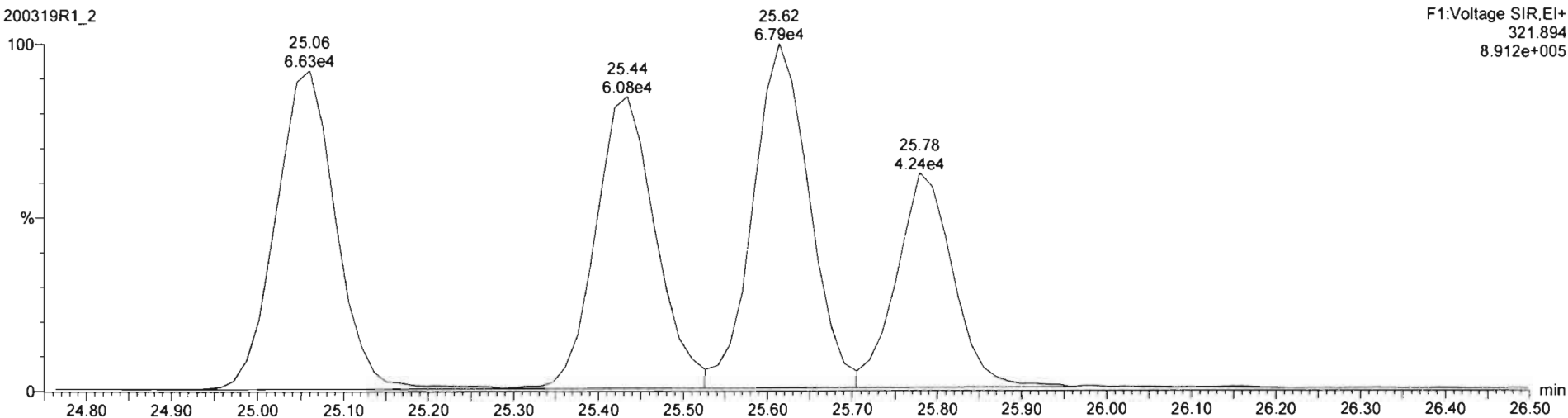
Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200319R1_2



200319R1_2



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

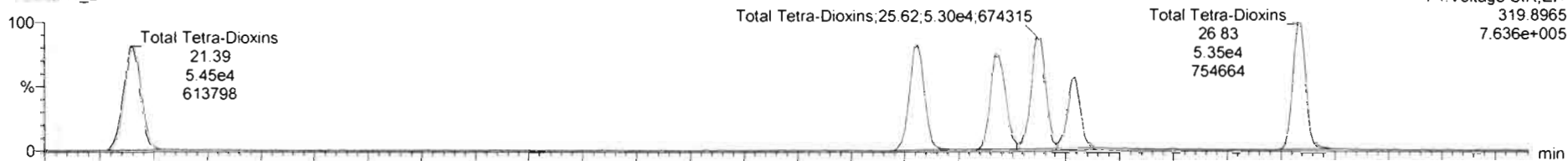
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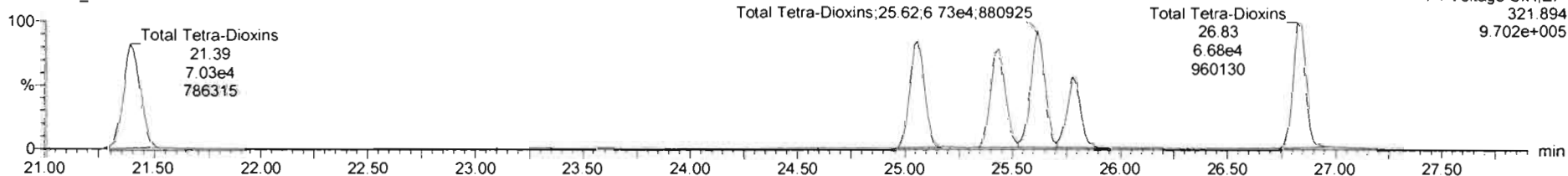
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2,3,7,8-TCDD

200319R1_2

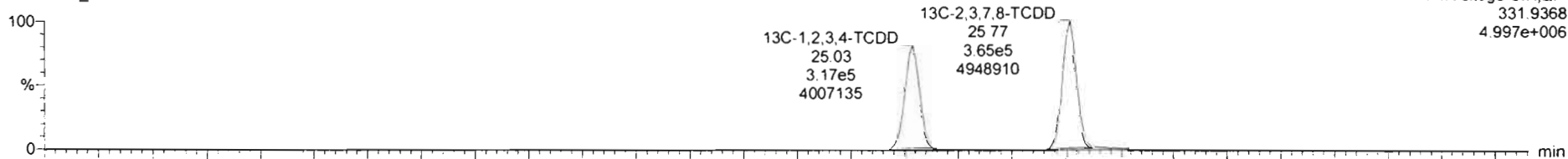


200319R1_2

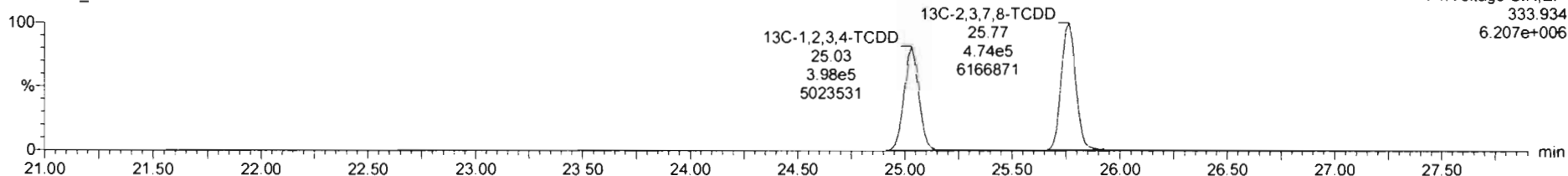


13C-2,3,7,8-TCDD

200319R1_2



200319R1_2



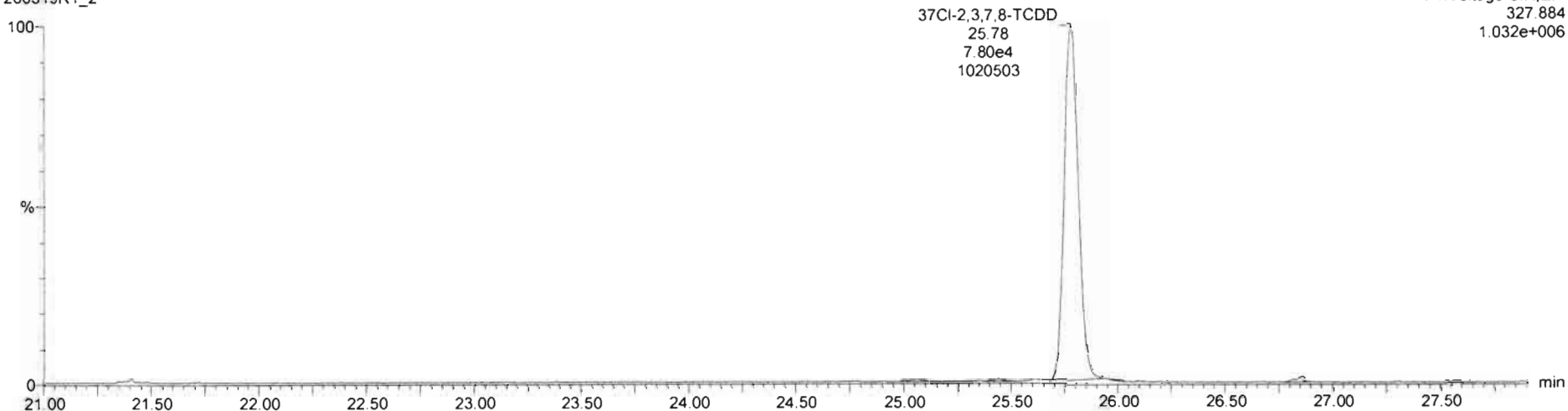
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Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

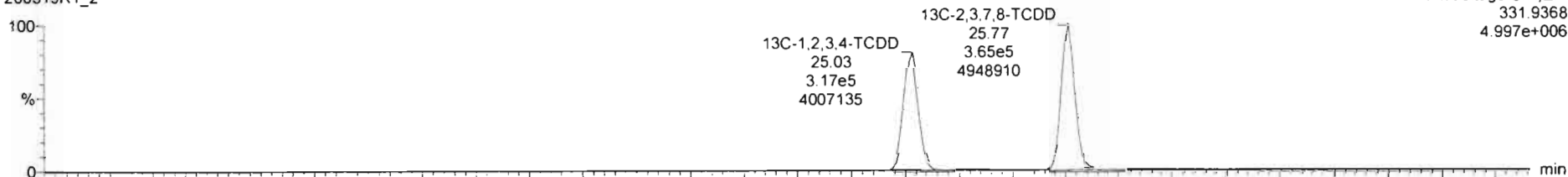
37Cl-2,3,7,8-TCDD

200319R1_2

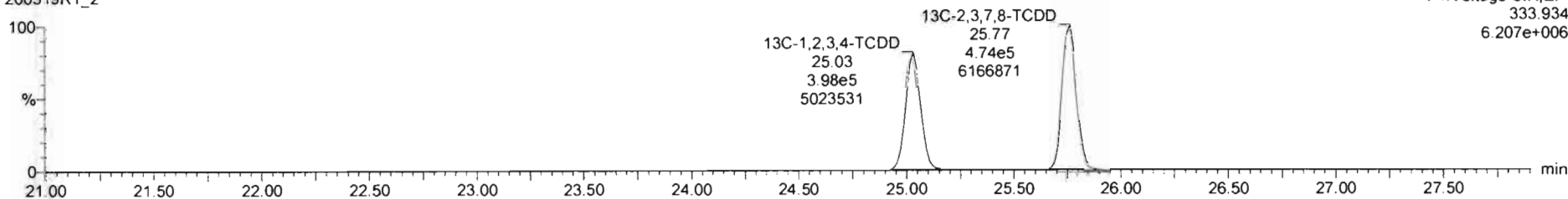


13C-1,2,3,4-TCDD

200319R1_2



200319R1_2



Dataset: Untitled

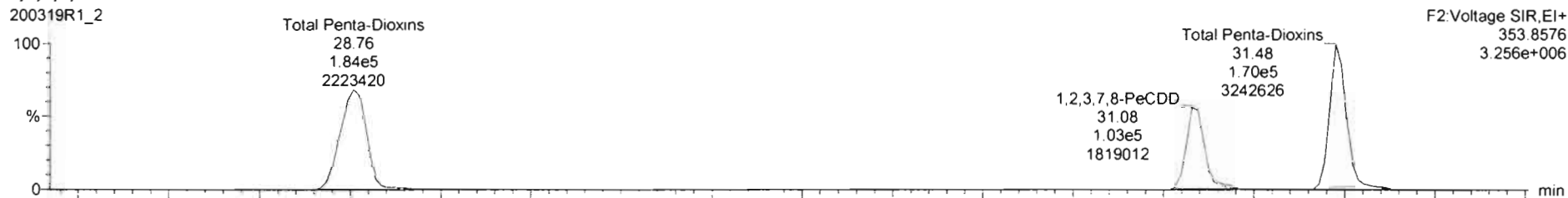
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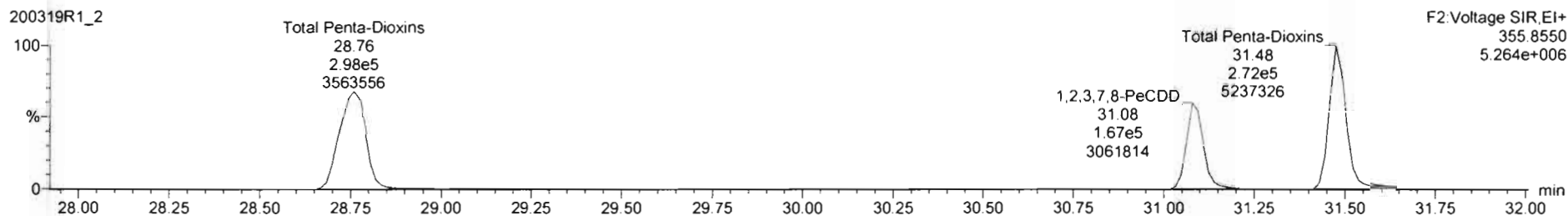
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1,2,3,7,8-PeCDD

200319R1_2

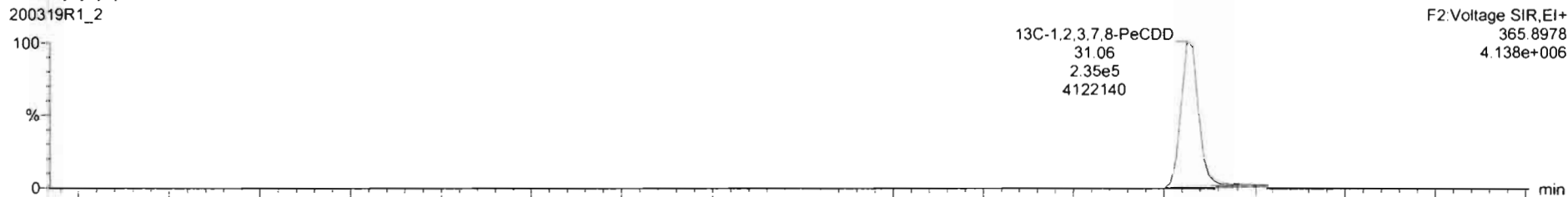


200319R1_2

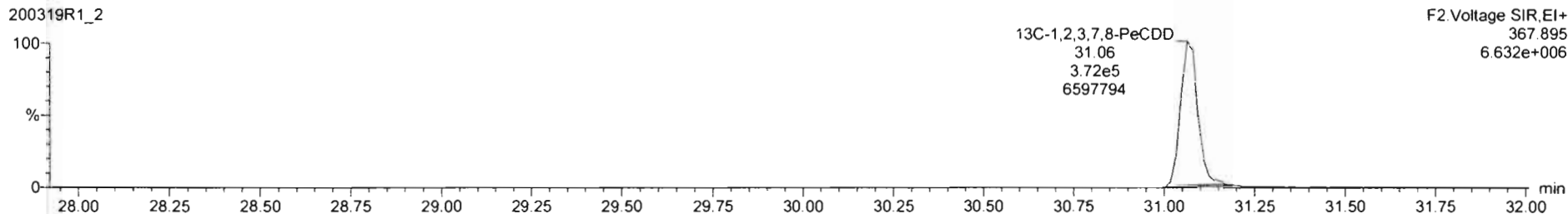


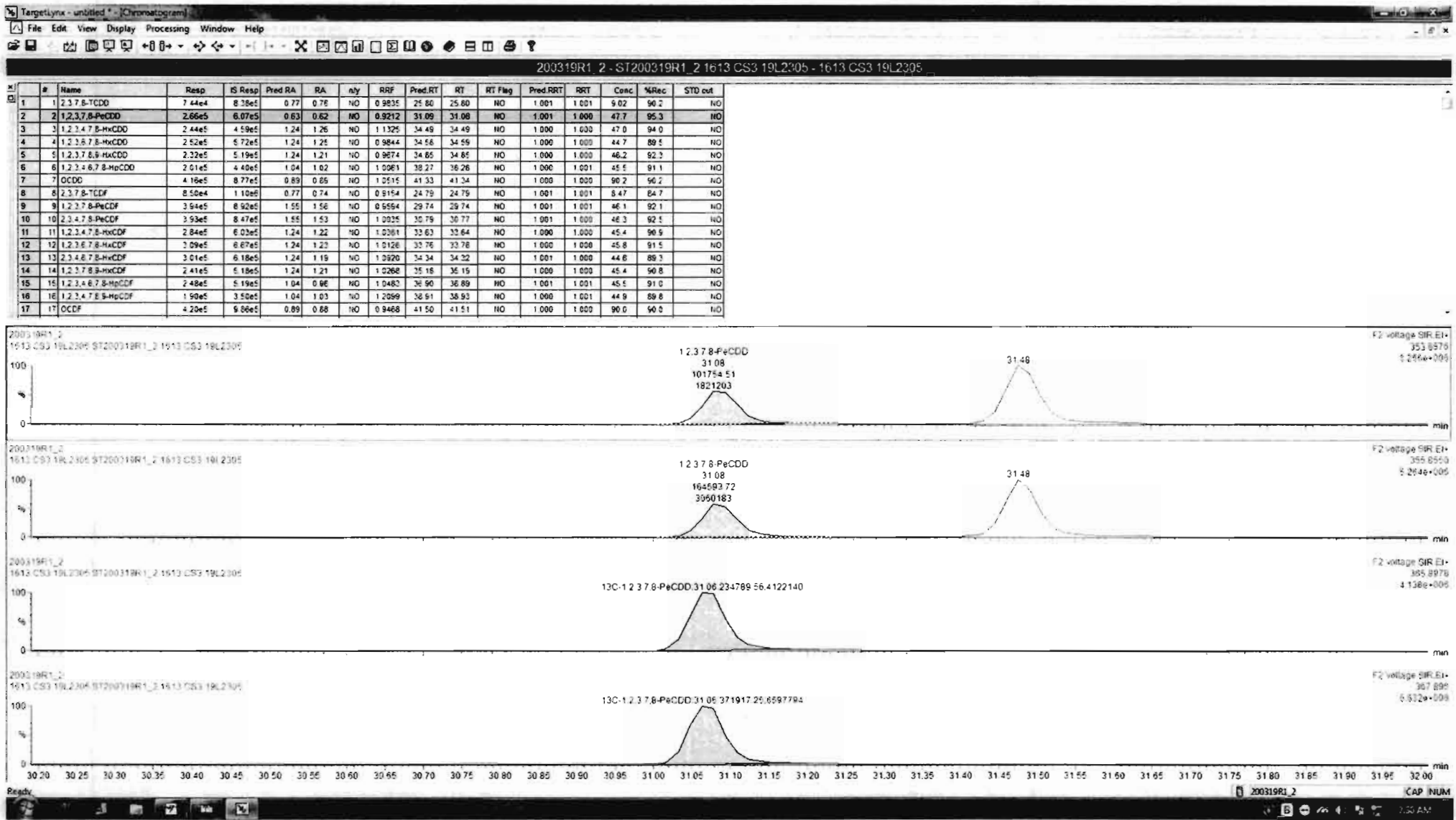
13C-1,2,3,7,8-PeCDD

200319R1_2



200319R1_2





Dataset: Untitled

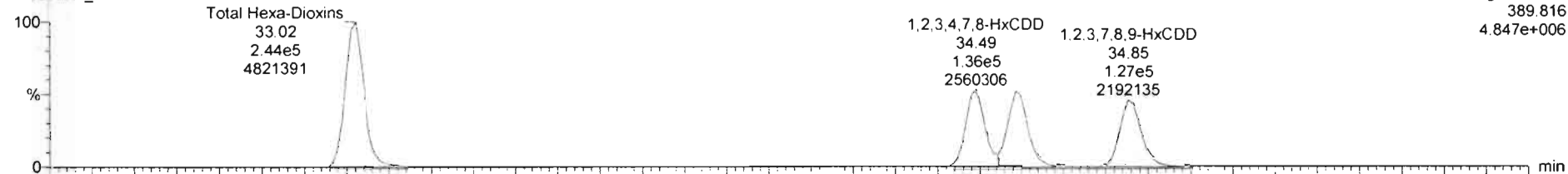
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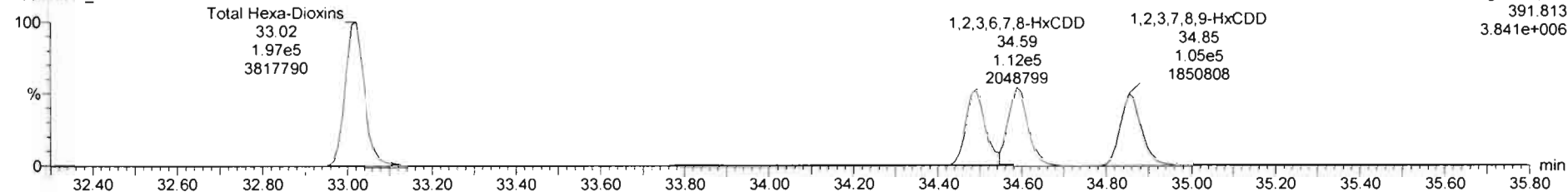
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1,2,3,4,7,8-HxCDD

200319R1_2

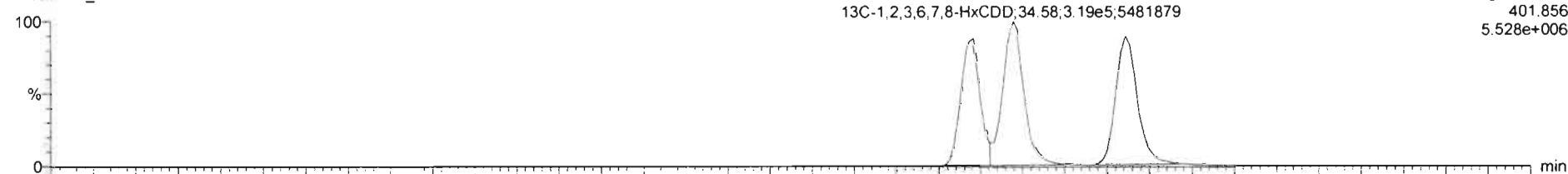


200319R1_2

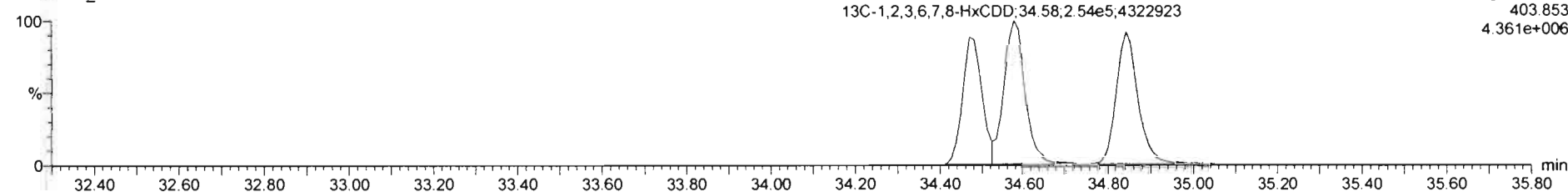


13C-1,2,3,4,7,8-HxCDD

200319R1_2



200319R1_2



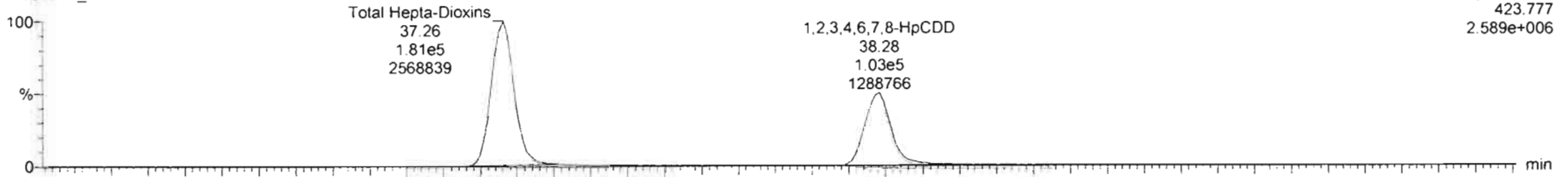
Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

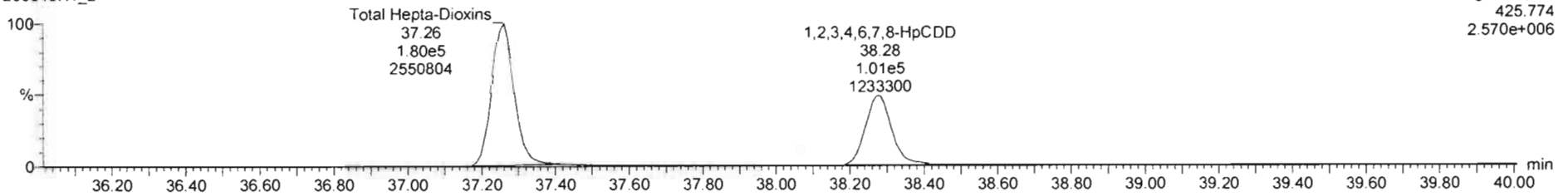
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1,2,3,4,6,7,8-HpCDD

200319R1_2

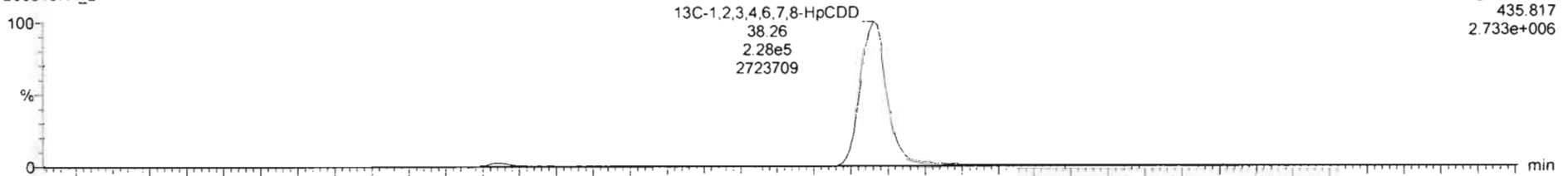


200319R1_2

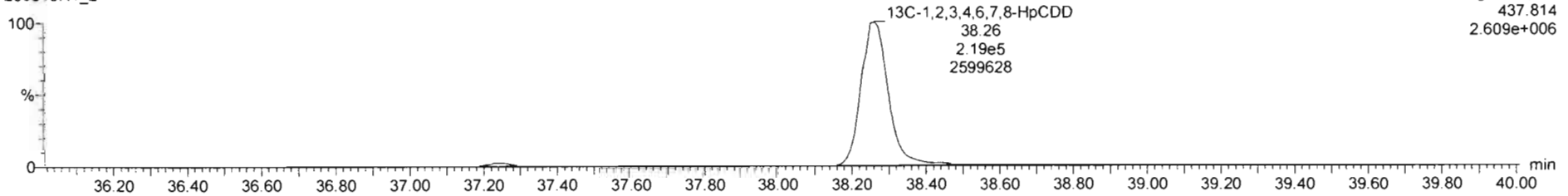


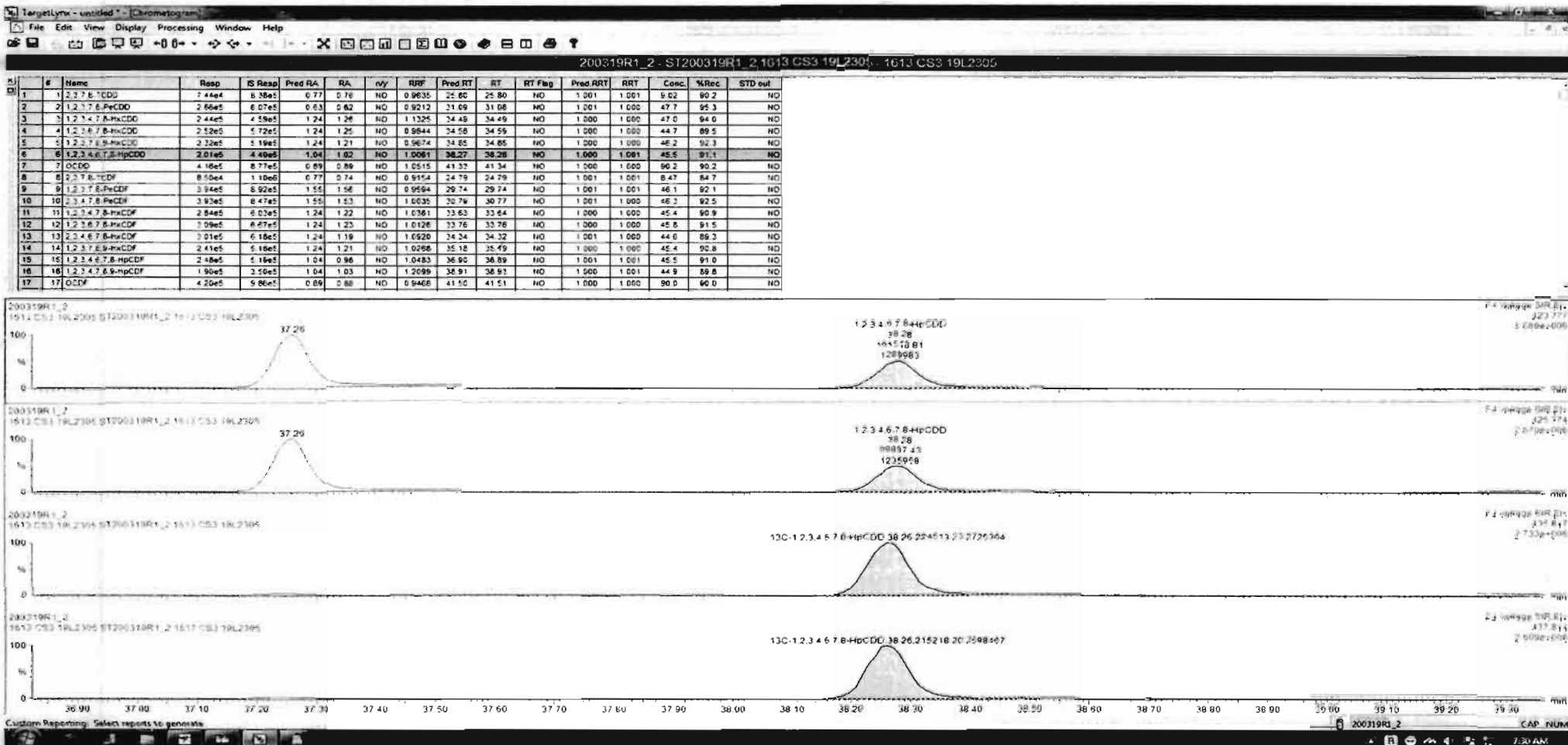
13C-1,2,3,4,6,7,8-HpCDD

200319R1_2



200319R1_2





Dataset: Untitled

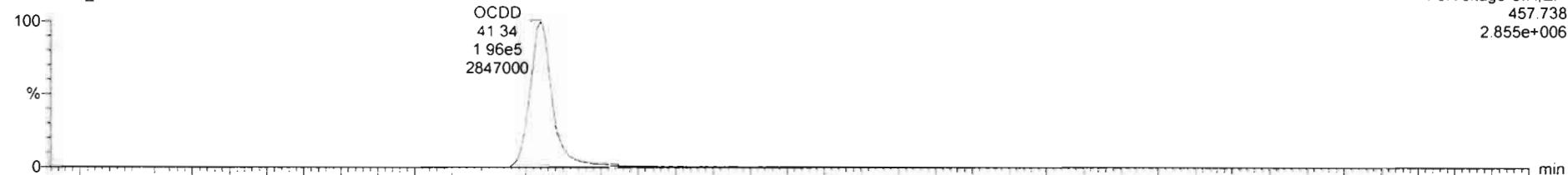
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Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

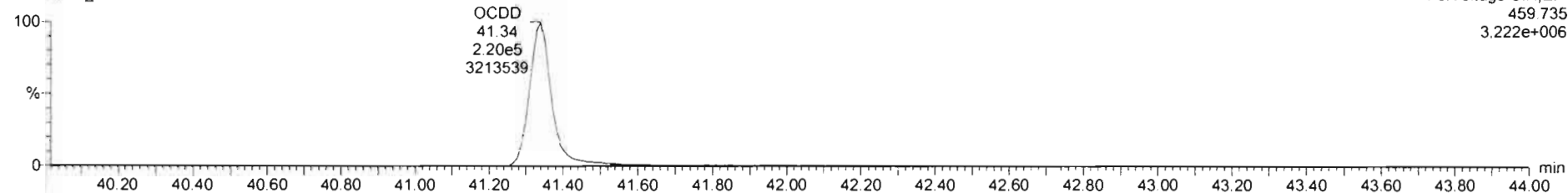
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OCDD

200319R1_2

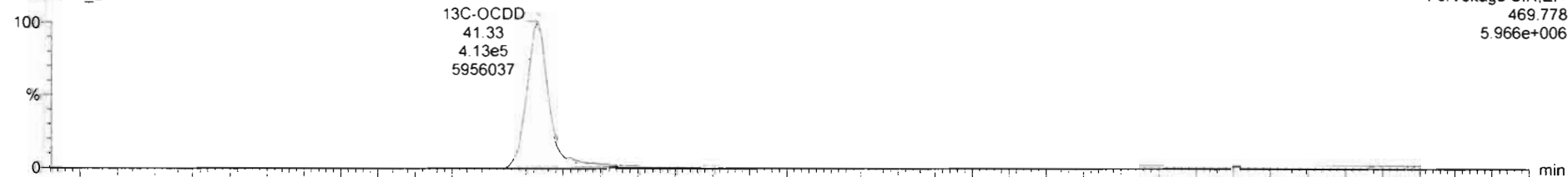


200319R1_2

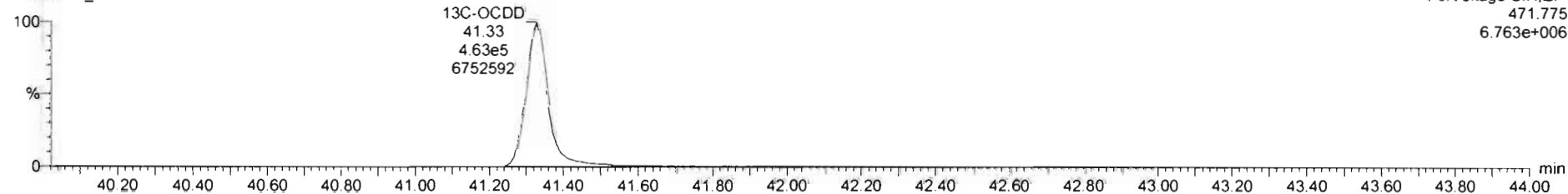


13C-OCDD

200319R1_2

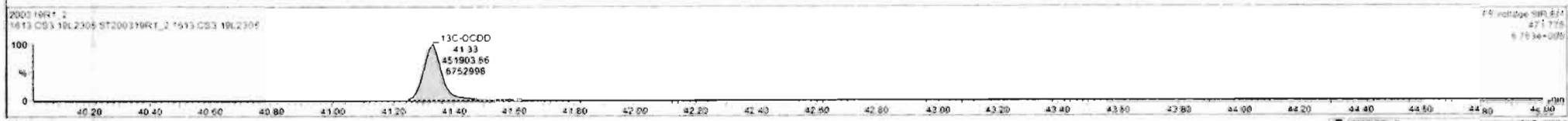


200319R1_2



200319R1_2 - ST200319R1_2 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	S Resp	Pred RA	RA	ny	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1 2 3 7 8-OCDD	7.44e4	8.36e5	0.77	0.76	NO	0.5635	25.80	25.80	NO	1.001	1.001	9.02	90.2	NO
2	1 2 3 7 8-PeCDD	2.66e5	6.07e5	0.63	0.62	NO	0.9212	31.05	31.05	NO	1.001	1.000	47.7	95.3	NO
3	1 2 3 4 7 8-HxCDD	2.44e5	4.59e5	1.24	1.26	NO	1.1325	34.49	34.49	NO	1.000	1.000	47.0	94.6	NO
4	1 2 3 6 7 8-HxCDD	2.52e5	5.72e5	1.24	1.25	NO	0.9844	34.58	34.59	NO	1.000	1.000	44.7	89.5	NO
5	1 2 3 7 8 9-HxCDD	2.32e5	5.19e5	1.24	1.21	NO	0.9674	34.85	34.85	NO	1.000	1.000	46.2	92.3	NO
6	1 2 3 4 6 7 8-HpCDD	2.01e5	4.40e5	1.04	1.02	NO	1.0061	38.27	38.28	NO	1.000	1.001	45.5	91.1	NO
7	OCDD	4.02e5	8.54e5	0.89	0.89	NO	1.0515	41.33	41.34	NO	1.000	1.000	89.5	89.5	NO
8	2 3 7 8-TCDF	8.50e4	1.10e5	0.77	0.74	NO	0.9154	24.78	24.79	NO	1.001	1.001	6.47	84.7	NO
9	1 2 3 7 8-PeCDF	3.94e5	6.92e5	1.55	1.56	NO	0.5594	29.74	29.74	NO	1.001	1.001	46.1	92.1	NO
10	1 2 3 4 7 8-PeCDF	3.93e5	8.47e5	1.55	1.53	NO	1.0055	30.79	30.77	NO	1.001	1.000	46.3	92.5	NO
11	1 2 3 4 7 8-HxCDF	2.84e5	6.03e5	1.24	1.22	NO	1.0761	33.63	33.64	NO	1.000	1.000	45.4	90.9	NO
12	1 2 3 6 7 8-HxCDF	3.09e5	6.67e5	1.24	1.23	NO	1.0126	33.76	33.76	NO	1.000	1.000	45.8	91.5	NO
13	1 2 3 4 6 7 8-HxCDF	3.01e5	6.16e5	1.24	1.19	NO	1.0920	34.34	34.32	NO	1.001	1.000	44.6	89.3	NO
14	1 2 3 7 8 9-HxCDF	2.41e5	5.18e5	1.24	1.21	NO	1.0268	35.18	35.19	NO	1.000	1.000	45.4	90.8	NO
15	1 2 3 4 6 7 8-HpCDF	2.48e5	5.19e5	1.04	0.96	NO	1.0483	36.90	36.89	NO	1.001	1.001	45.5	91.0	NO
16	1 2 3 4 7 8 9-HpCDF	1.90e5	3.50e5	1.04	1.03	NO	1.2099	38.91	38.93	NO	1.000	1.001	44.9	89.8	NO
17	OCDF	4.20e5	9.86e5	0.89	0.86	NO	0.9468	41.50	41.51	NO	1.000	1.000	90.0	90.0	NO

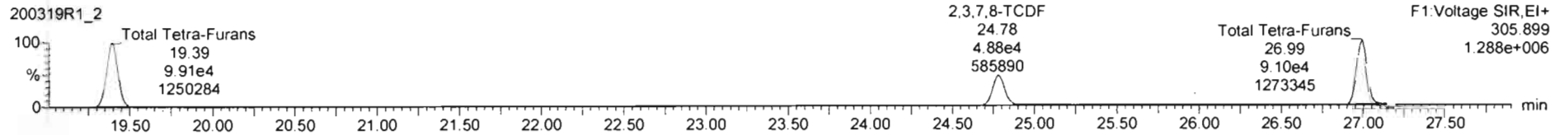
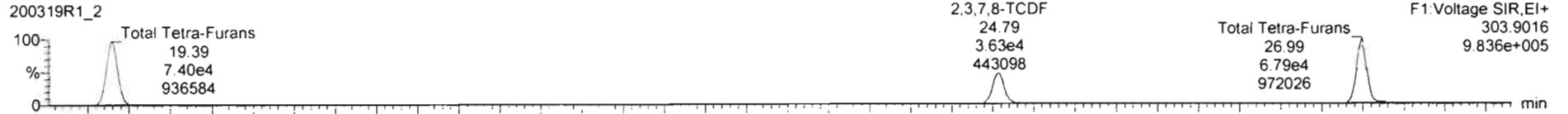


Dataset: Untitled

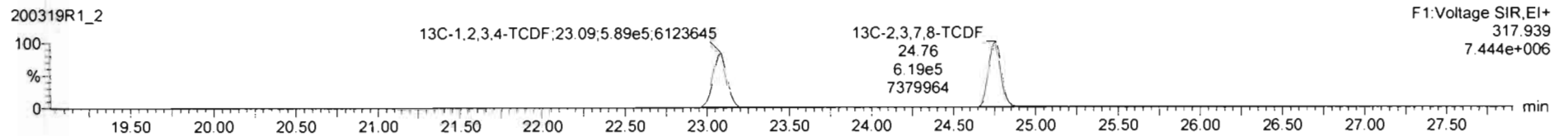
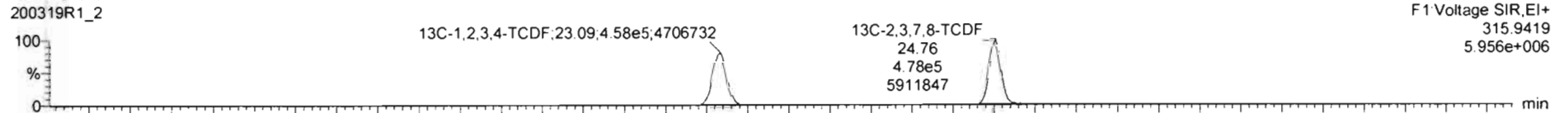
Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

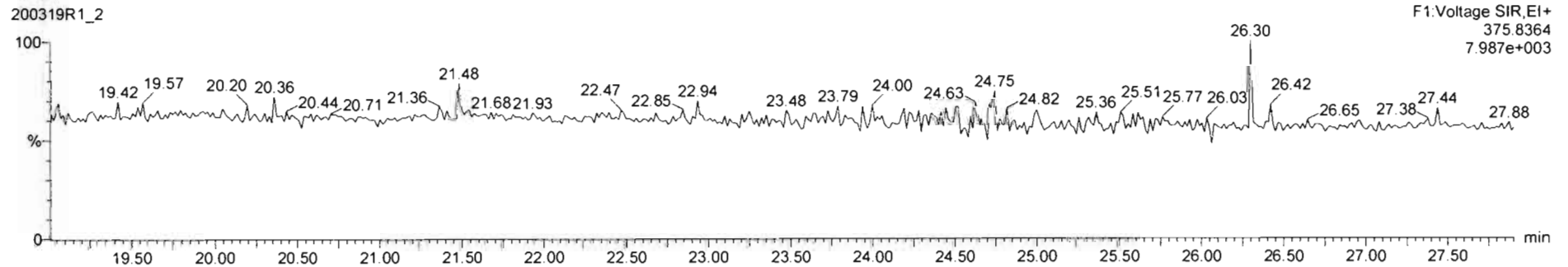
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time

Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

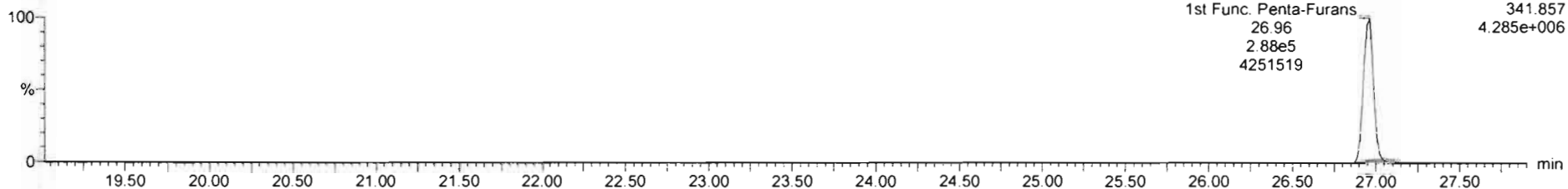
Name: 200319R1_2, Date: 19-Mar-2020, Time: 17:08:32, ID: ST200319R1_2 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200319R1_2

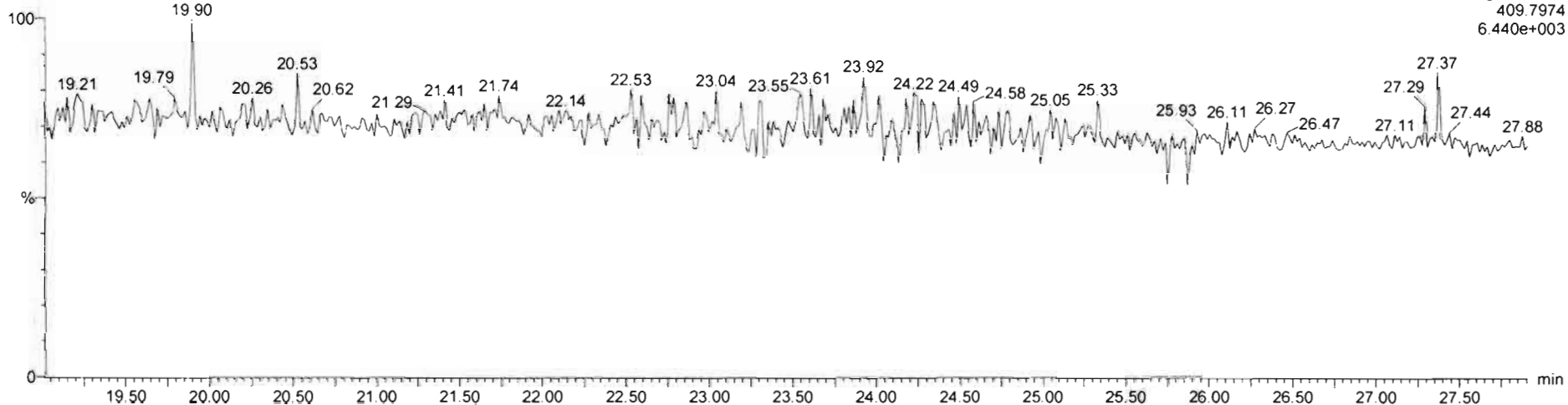


200319R1_2



DPE6

200319R1_2



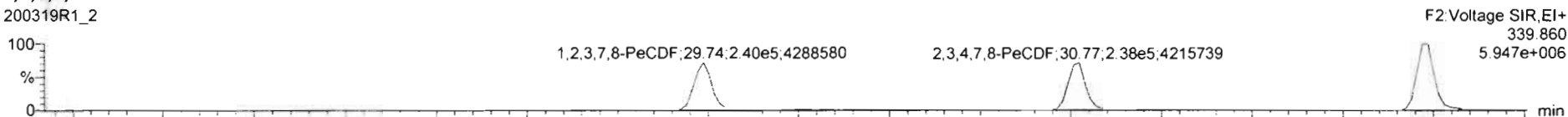
Dataset: Untitled

Last Altered: Friday, March 20, 2020 07:33:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 07:34:02 Pacific Daylight Time

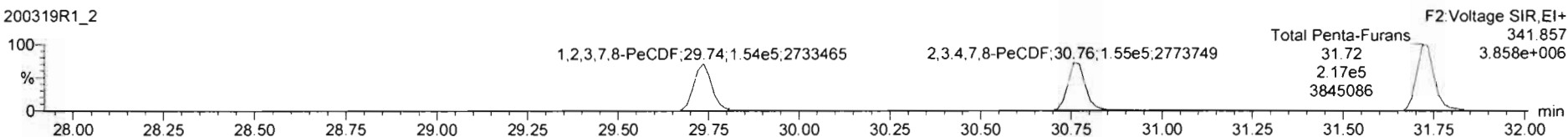
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1,2,3,7,8-PeCDF

200319R1_2

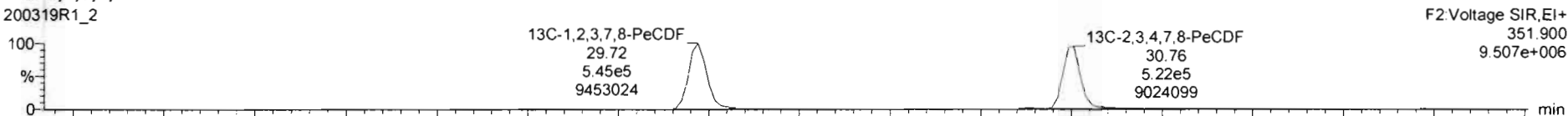


200319R1_2

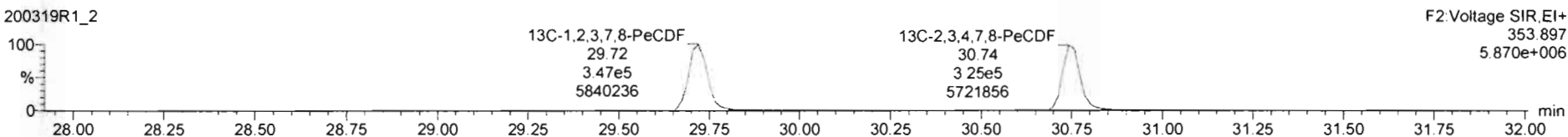


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200319R1_2

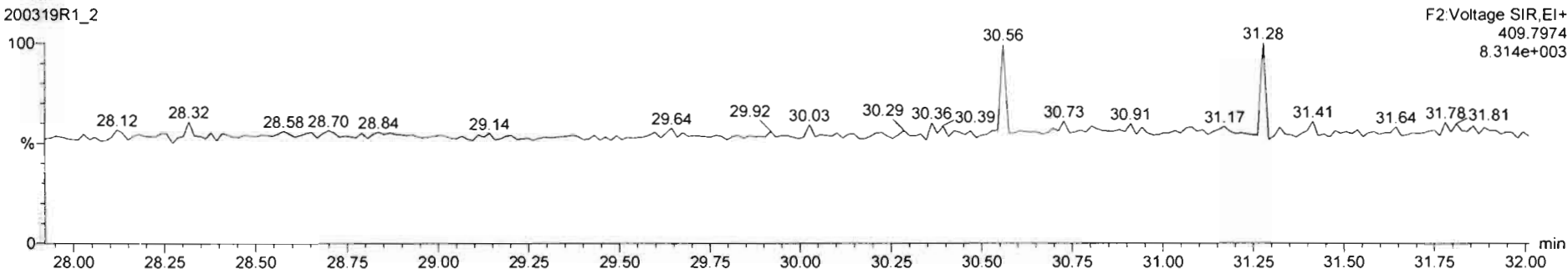


200319R1_2



DPE2

200319R1_2



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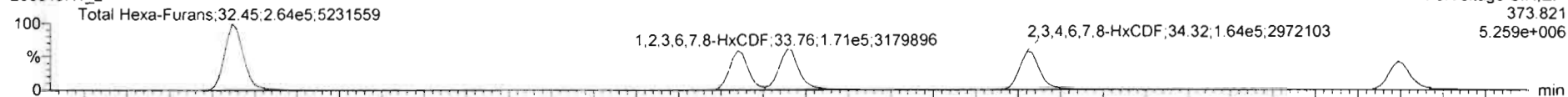
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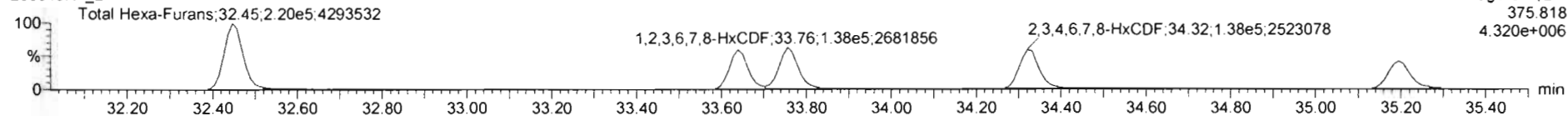
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1,2,3,4,7,8-HxCDF

200319R1_2

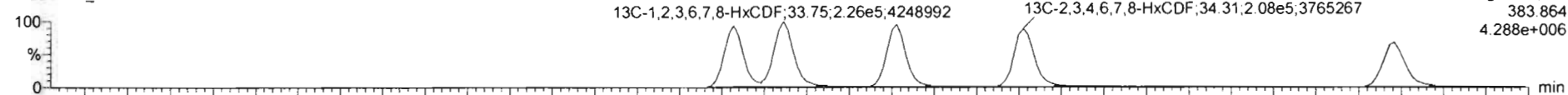


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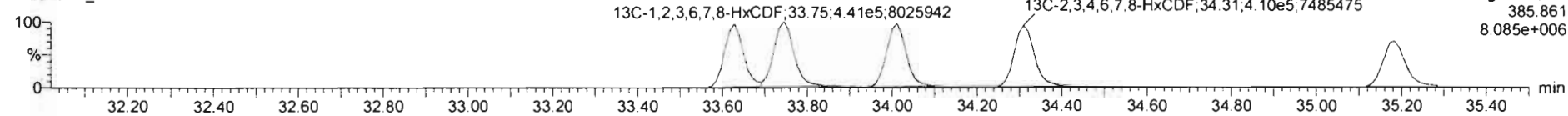


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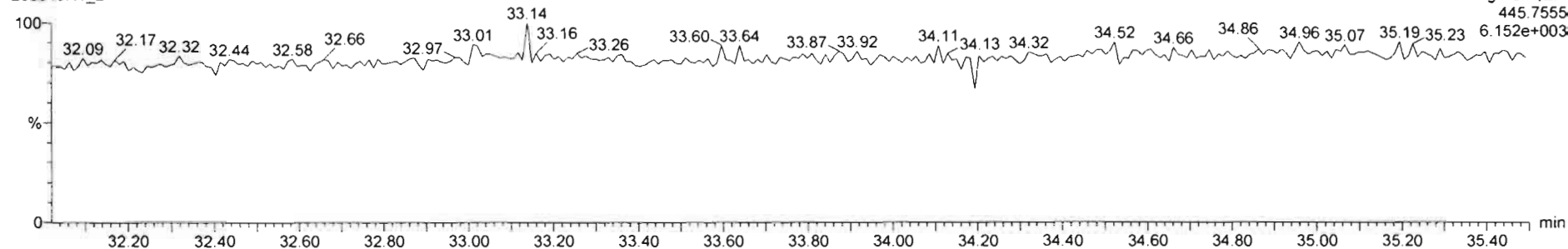


200319R1_2



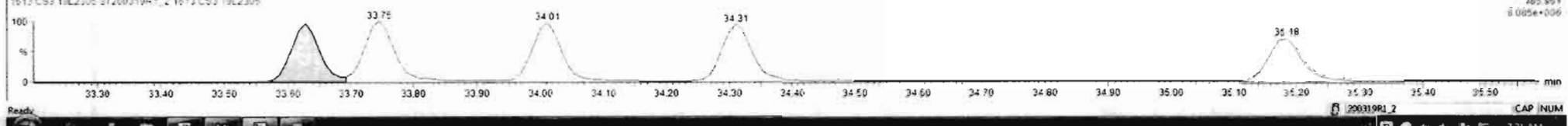
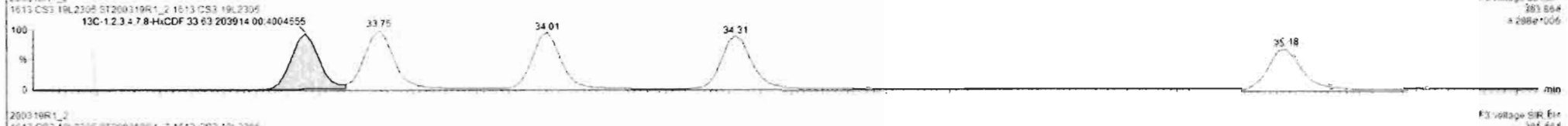
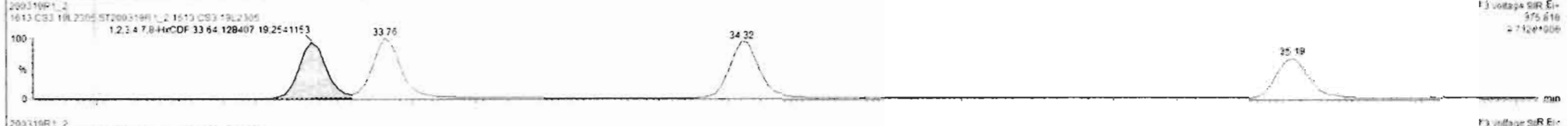
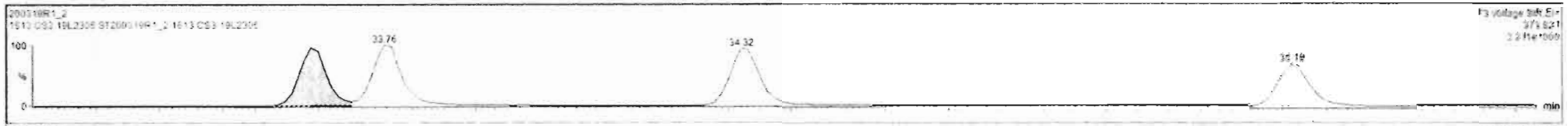
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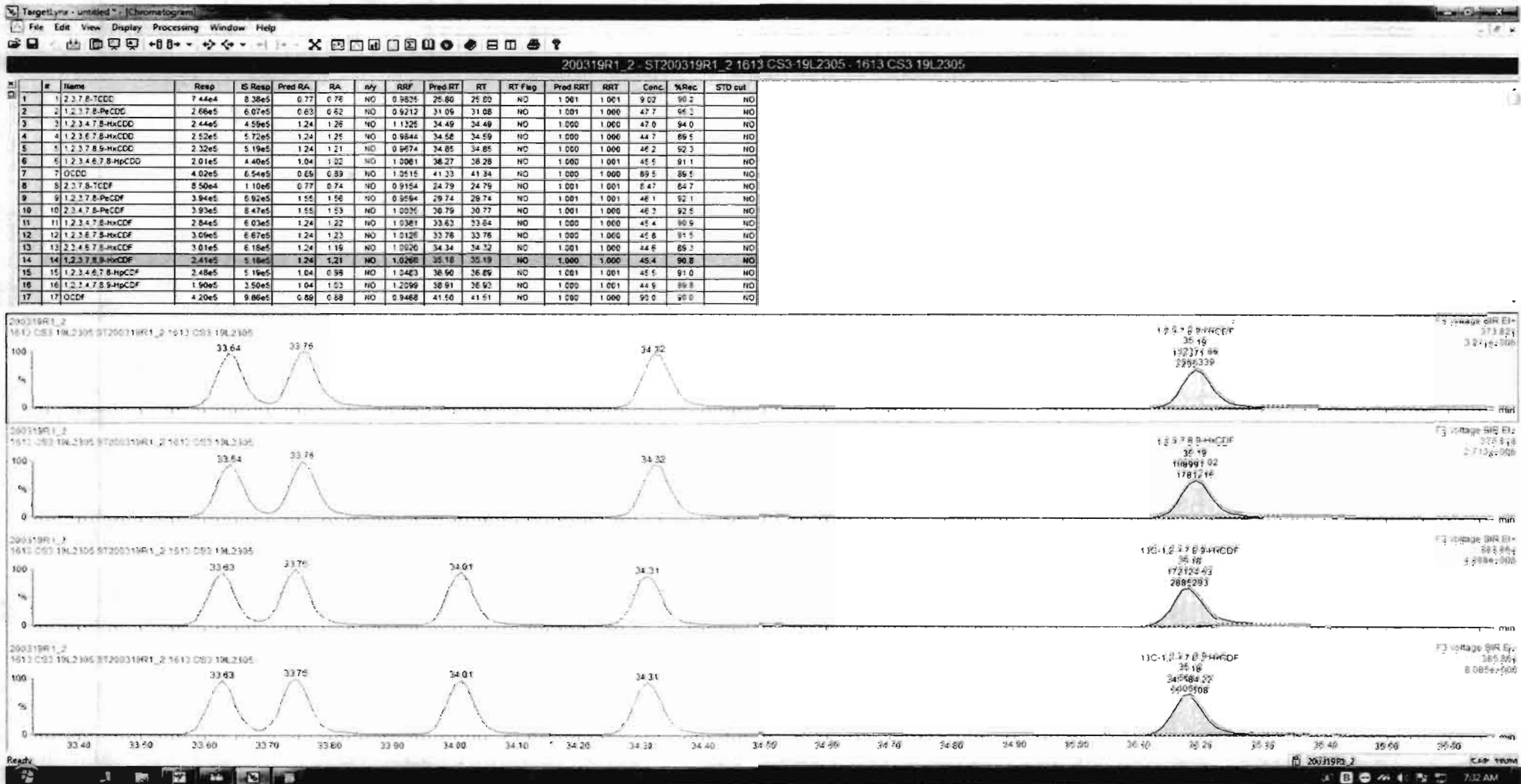
200319R1_2



200319R1_2 - ST200319R1_2 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	7.44e4	6.26e5	0.77	0.76	ND	0.5835	25.80	25.80	ND	1.001	1.001	9.02	90.2	NO
2	1,2,3,7,8-PeCDD	2.68e5	6.07e5	0.63	0.62	ND	0.5212	31.09	31.08	ND	1.001	1.000	47.7	55.3	NO
3	1,2,3,4,7,8-HxCDD	2.44e5	4.59e5	1.24	1.26	NO	1.1325	34.49	34.48	ND	1.000	1.000	47.0	94.0	NO
4	1,2,3,6,7,8-HxCDD	2.52e5	5.72e5	1.24	1.25	NO	0.9844	34.58	34.59	ND	1.000	1.000	44.7	89.5	NO
5	1,2,3,7,8,9-HxCDD	2.32e5	5.19e5	1.24	1.21	NO	0.9874	34.85	34.85	ND	1.000	1.000	46.2	92.3	NO
6	1,2,3,4,6,7,8-HpCDD	2.01e5	4.40e5	1.04	1.02	NO	1.0061	38.27	38.28	ND	1.001	1.001	45.5	91.1	NO
7	OCDD	4.02e5	8.54e5	0.89	0.89	NO	1.0515	41.33	41.34	ND	1.000	1.000	89.5	89.5	NO
8	1,2,3,8-TCDF	8.50e4	1.10e6	0.77	0.74	ND	0.5154	24.79	24.79	ND	1.001	1.001	8.47	84.7	NO
9	1,2,3,7,8-PeCDF	3.94e5	8.92e5	1.55	1.56	NO	0.9594	29.74	29.74	ND	1.001	1.001	46.1	92.1	NO
10	1,2,3,4,7,8-PeCDF	3.93e5	8.47e5	1.55	1.53	NO	1.0035	30.79	30.77	ND	1.001	1.000	46.3	92.5	NO
11	1,2,3,4,7,8-HxCDF	2.64e5	6.03e5	1.24	1.22	NO	1.0381	33.63	33.64	ND	1.000	1.000	45.4	90.9	NO
12	1,2,3,6,7,8-HxCDF	3.09e5	6.87e5	1.24	1.23	NO	1.0126	33.76	33.76	ND	1.000	1.000	45.8	91.5	NO
13	1,2,3,4,6,7,8-HxCDF	3.01e5	6.16e5	1.24	1.19	NO	1.0920	34.34	34.32	ND	1.001	1.000	44.6	89.3	NO
14	1,2,3,7,8,9-HxCDF	2.41e5	5.18e5	1.24	1.21	NO	1.0265	35.18	35.19	ND	1.000	1.000	45.4	90.8	NO
15	1,2,3,4,6,7,8-HpCDF	2.48e5	5.19e5	1.04	0.98	NO	1.0483	36.90	36.89	ND	1.001	1.001	45.5	91.0	NO
16	1,2,3,4,7,8,9-HpCDF	1.50e5	3.50e5	1.04	1.03	NO	1.2089	38.91	38.93	ND	1.000	1.001	44.5	89.8	NO
17	OCDF	4.20e5	9.86e5	0.88	0.88	NO	0.9468	41.50	41.51	ND	1.000	1.000	90.9	90.9	NO





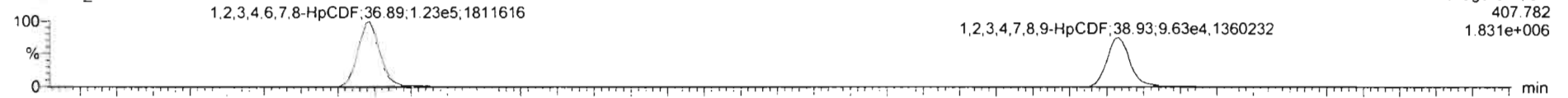
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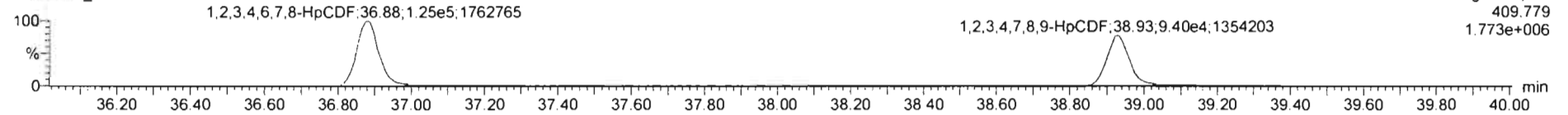
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1,2,3,4,6,7,8-HpCDF

200319R1_2

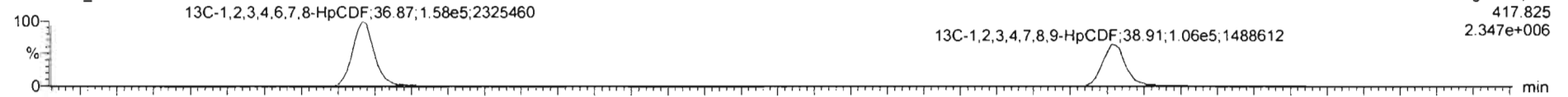


200319R1_2

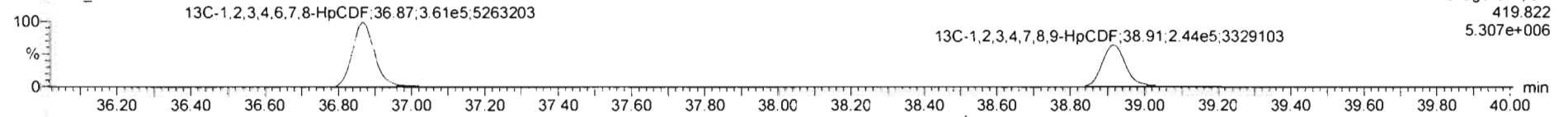


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200319R1_2

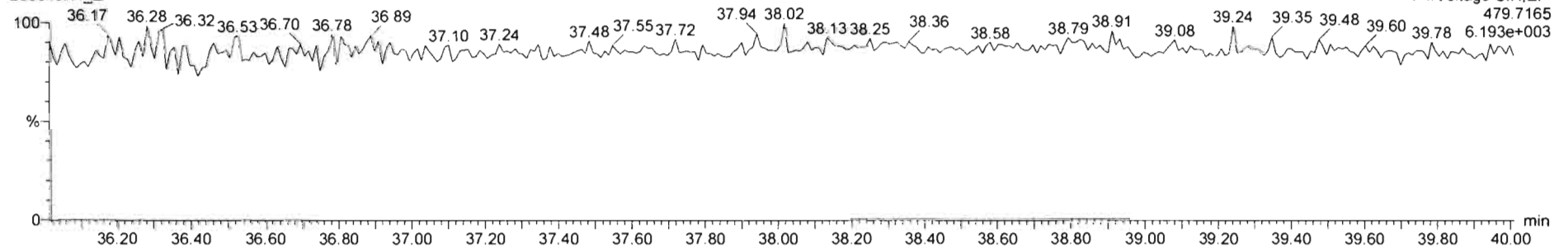


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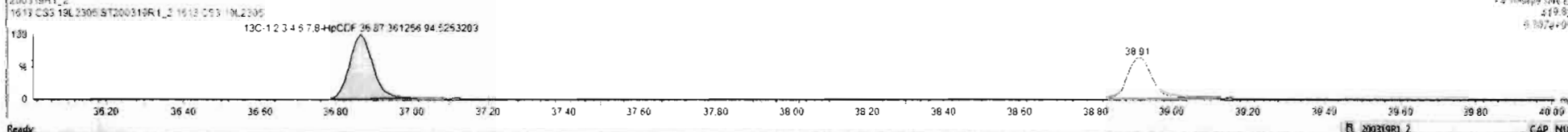


DPE4

200319R1_2



#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	7.44e4	8.38e5	0.77	0.76	NO	0.9835	25.86	25.80	NO	1.001	1.001	9.02	90.2	NO
2	1 2,3,7,8-PeCDD	2.66e5	6.07e5	0.63	0.62	NO	0.9212	31.09	31.06	NO	1.001	1.000	47.7	95.3	NO
3	1 2,3,4,7,8-HxCDD	2.44e5	4.59e5	1.24	1.26	NO	1.1325	34.49	34.45	NO	1.000	1.000	47.0	94.0	NO
4	1 2,3,6,7,8-HxCDD	2.52e5	5.72e5	1.24	1.25	NO	0.9844	34.58	34.55	NO	1.000	1.000	44.7	89.5	NO
5	1 2,3,7,8,9-HxCDD	2.32e5	5.19e5	1.24	1.21	NO	0.9674	34.65	34.65	NO	1.000	1.000	46.2	92.3	NO
6	1 2,3,4,6,7,8-HpCDD	2.01e5	4.40e5	1.04	1.02	NO	1.0661	36.27	36.28	NO	1.000	1.001	45.5	91.1	NO
7	7 OCDD	4.02e5	8.54e5	0.89	0.89	NO	1.0515	41.33	41.34	NO	1.000	1.000	89.5	89.5	NO
8	2 2,3,7,8-TCDF	8.50e4	1.10e6	0.77	0.74	NO	0.9154	24.79	24.79	NO	1.001	1.001	8.47	84.7	NO
9	1 2,3,7,8-PeCDF	3.94e5	8.52e5	1.55	1.56	NO	0.9594	29.74	29.74	NO	1.001	1.001	46.1	92.1	NO
10	1 2,3,4,7,8-PeCDF	3.93e5	8.47e5	1.55	1.53	NO	1.0035	30.79	30.77	NO	1.001	1.000	46.3	92.5	NO
11	1 2,3,4,7,8-HxCDF	2.84e5	6.03e5	1.24	1.22	NO	1.0781	33.63	33.64	NO	1.000	1.000	45.4	90.9	NO
12	1 2,3,6,7,8-HxCDF	2.09e5	6.67e5	1.24	1.23	NO	1.0126	33.76	33.76	NO	1.000	1.000	45.6	91.5	NO
13	1 2,3,4,6,7,8-HxCDF	3.01e5	8.18e5	1.24	1.19	NO	1.0920	34.34	34.32	NO	1.001	1.000	44.6	89.3	NO
14	1 2,3,7,8,9-HxCDF	2.41e5	5.18e5	1.24	1.21	NO	1.0268	35.18	35.19	NO	1.000	1.000	45.4	90.8	NO
15	1 2,3,4,6,7,8-HpCDF	2.47e5	5.19e5	1.04	0.99	NO	1.0463	36.59	36.89	NO	1.001	1.001	45.4	90.7	NO
16	1 2,3,4,7,8,9-HpCDF	1.90e5	3.50e5	1.04	1.02	NO	1.2095	38.91	38.93	NO	1.000	1.001	44.9	89.8	NO
17	17 OCDF	4.20e5	9.82e5	0.89	0.88	NO	0.9468	41.50	41.51	NO	1.000	1.000	90.0	90.0	NO



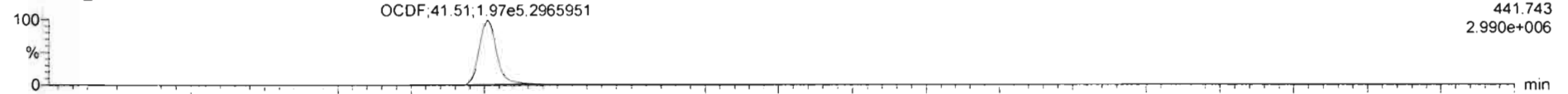
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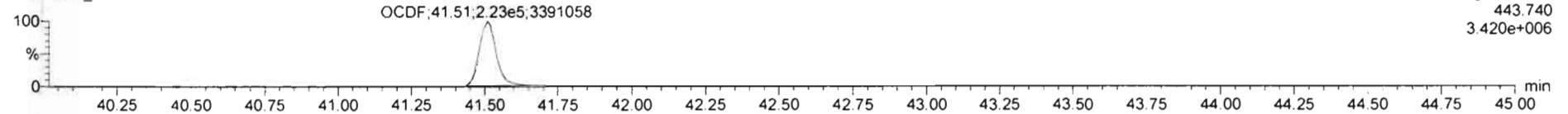
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OCDF

200319R1_2

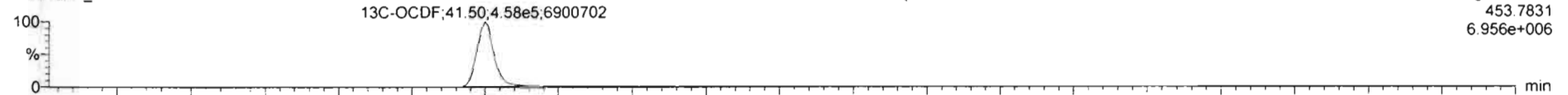


200319R1_2

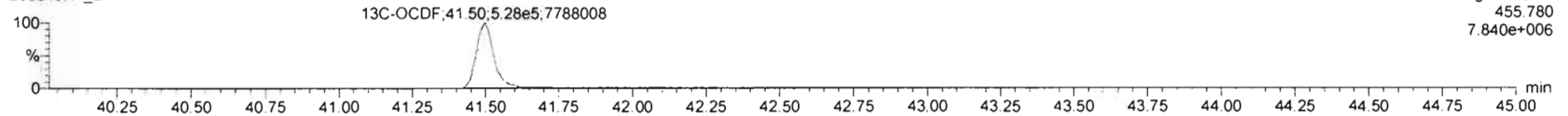


13C-OCDF

200319R1_2

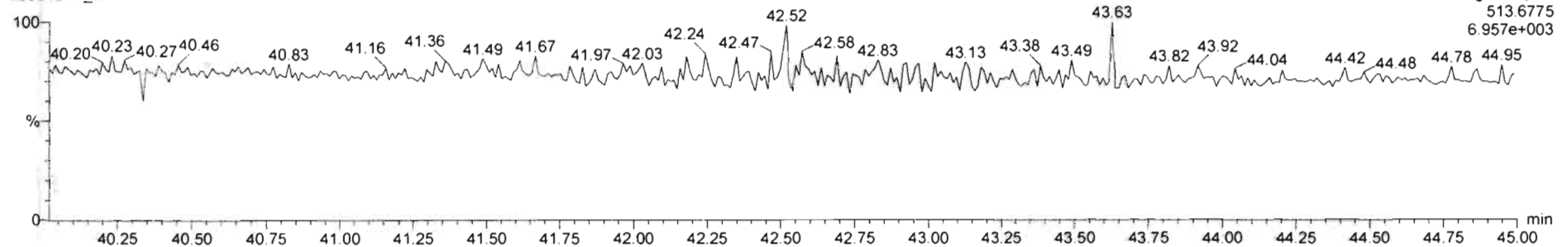


200319R1_2



DPE5

200319R1_2

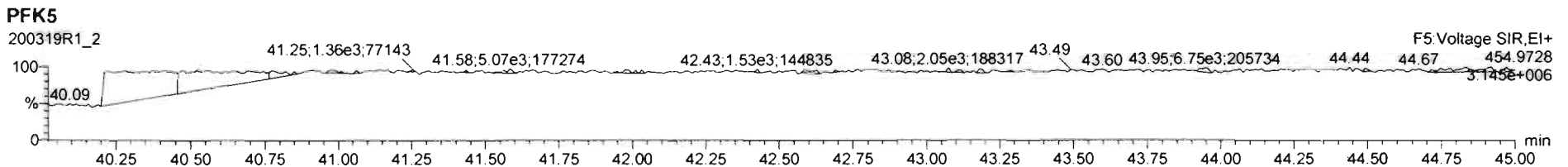
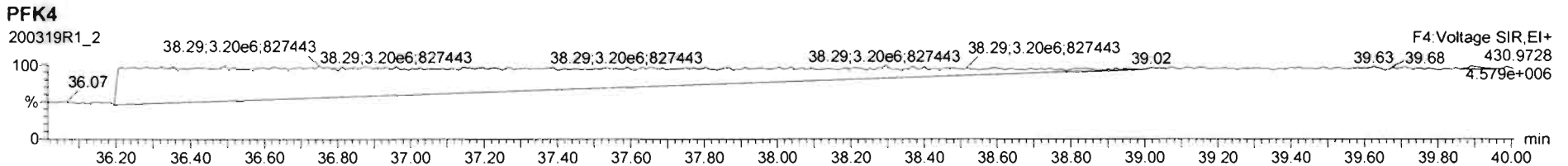
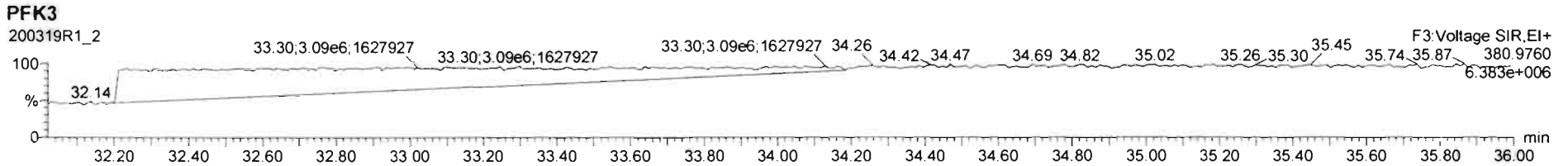
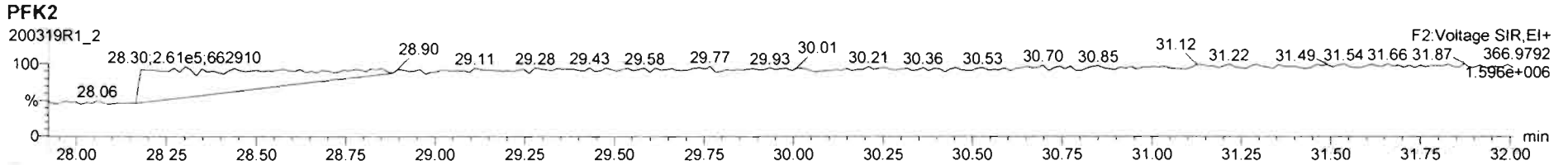
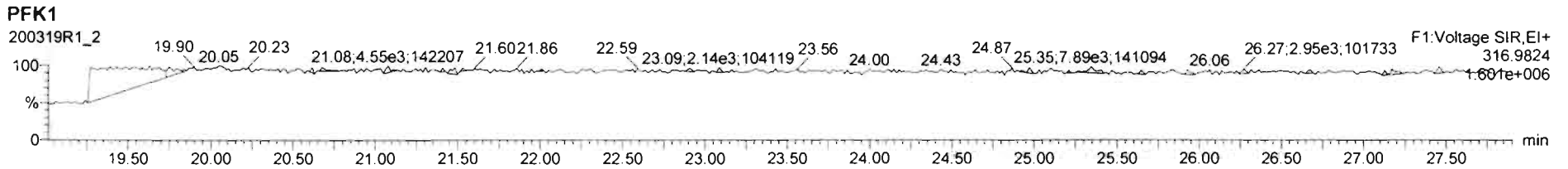


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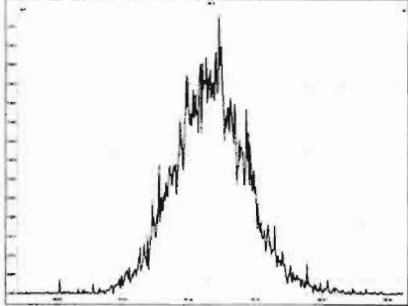
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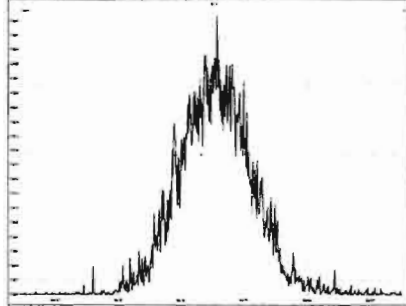


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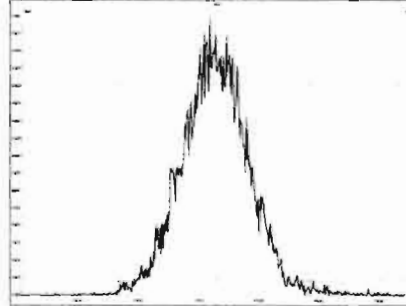
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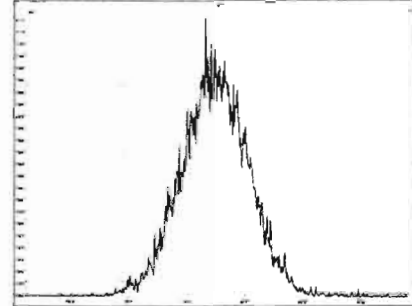
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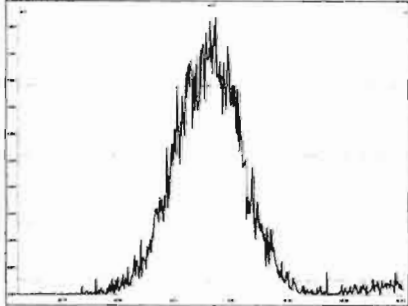
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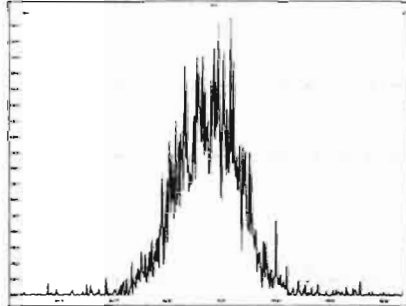
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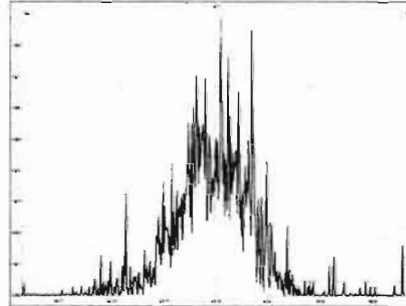
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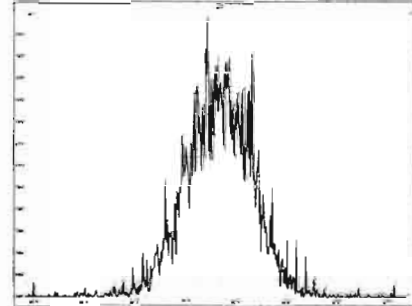
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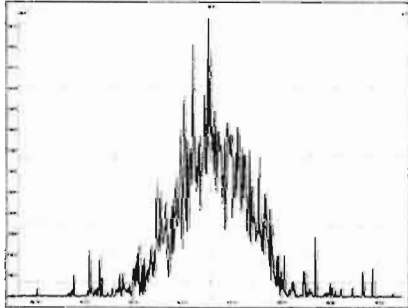
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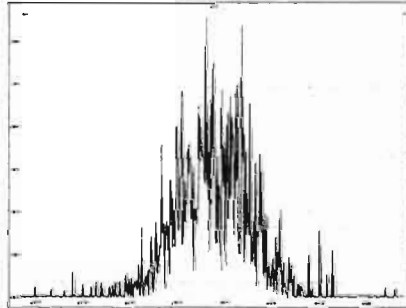
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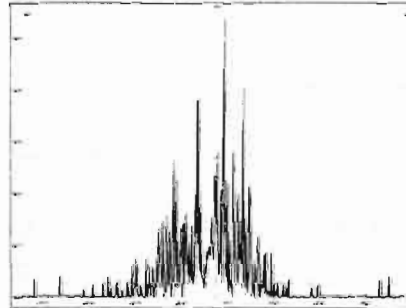
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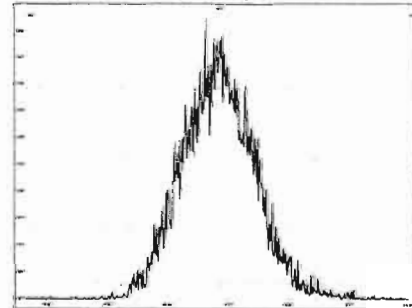
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M 416.9760 R 27851

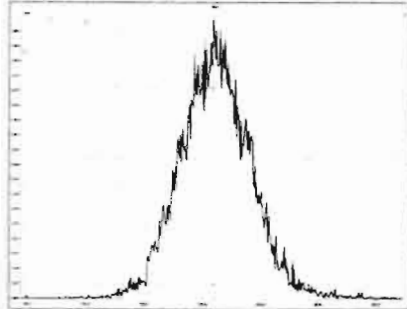


M 318.9792 R 12698

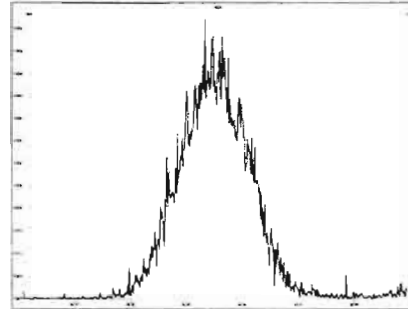


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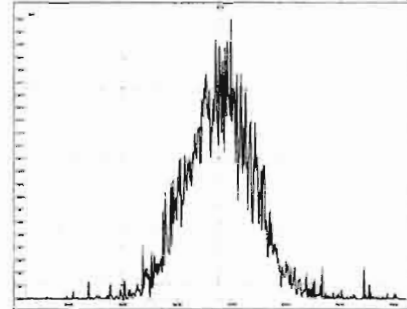
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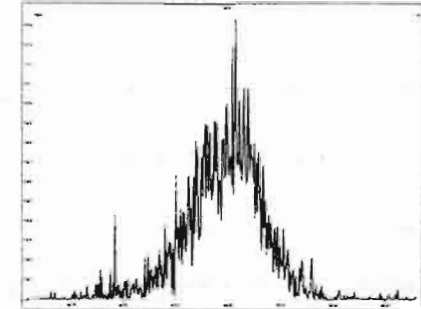
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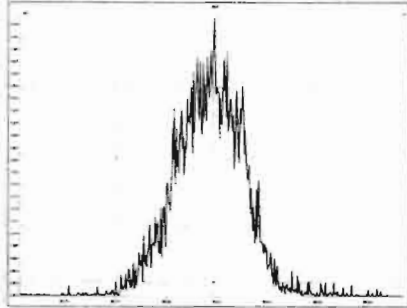
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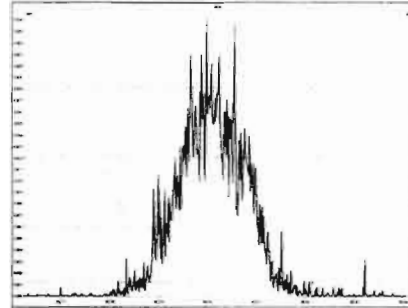
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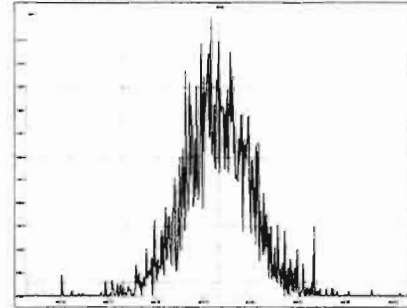
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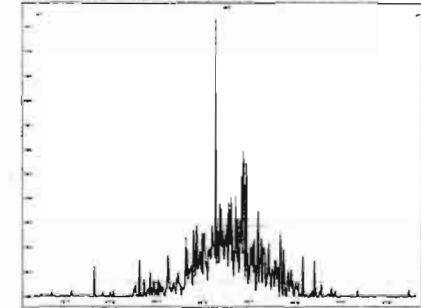
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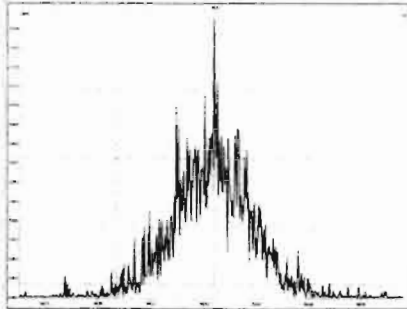
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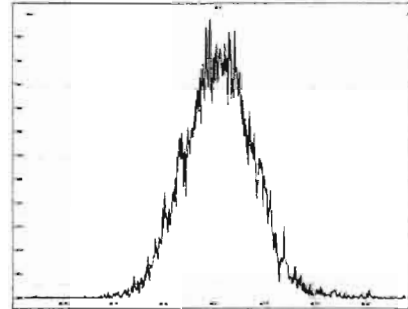
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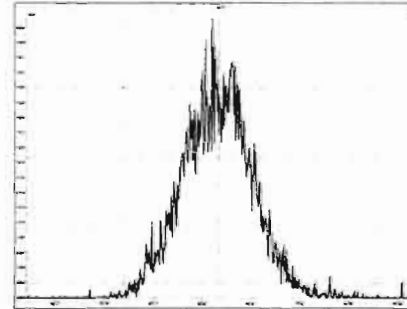
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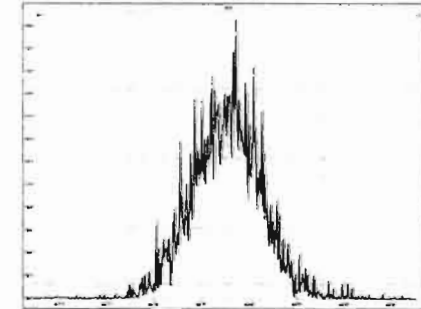
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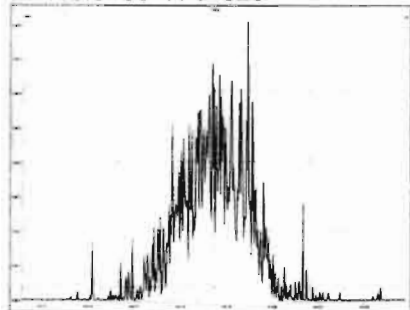


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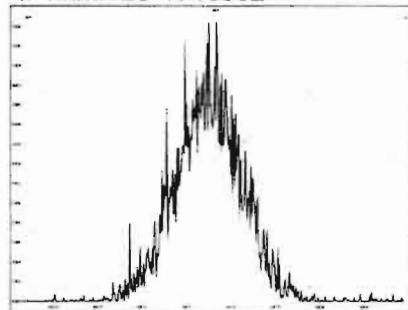


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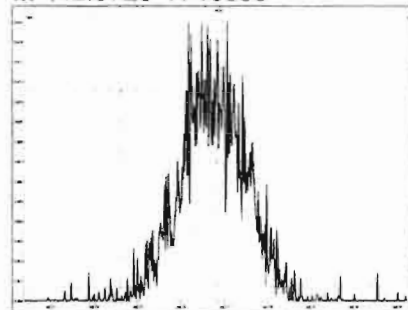
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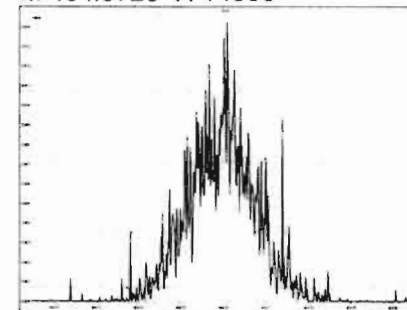
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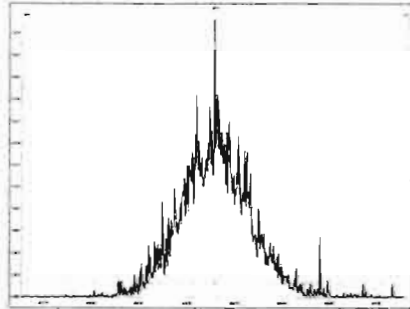
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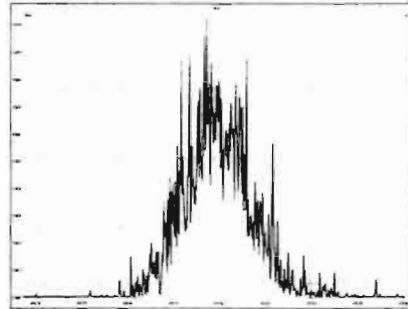
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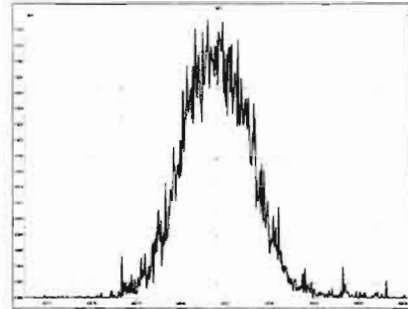
M 404.9760 R 12817



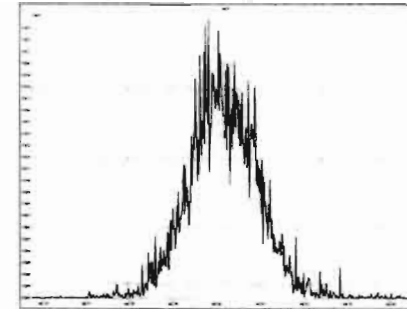
M 416.9760 R 15385



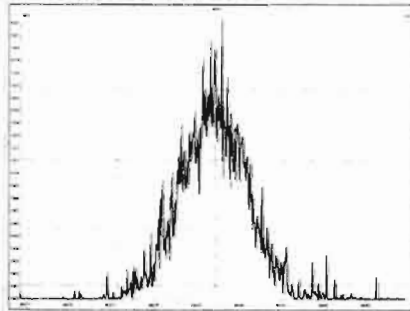
M 430.9728 R 13450



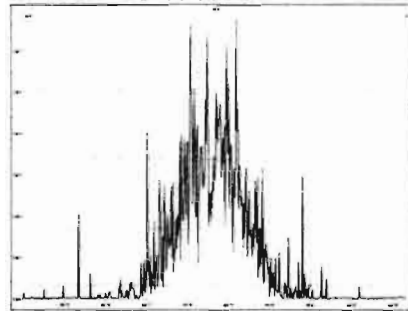
M 442.9728 R 13892



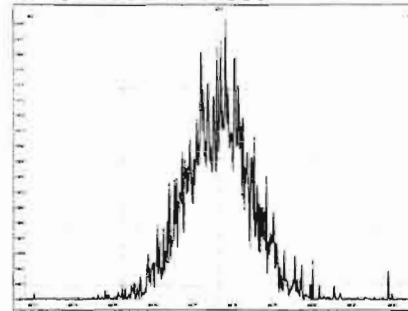
M 454.9728 R 13513



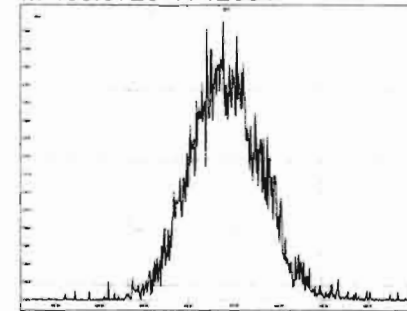
M 466.9728 R 16021



M 480.9696 R 14665

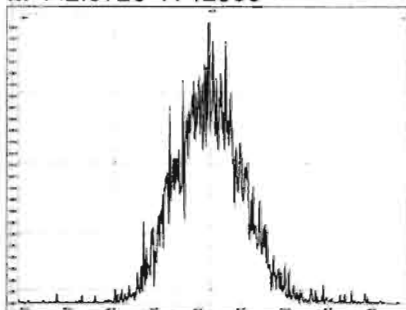


M 430.9728 R 12991

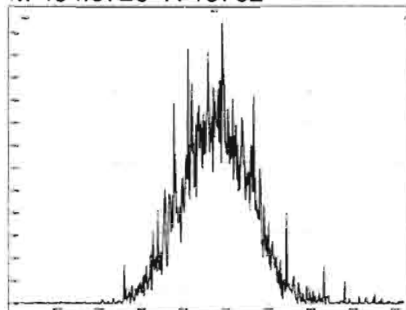


Printed: Friday, March 20, 2020 05:11:17 Pacific Daylight Time

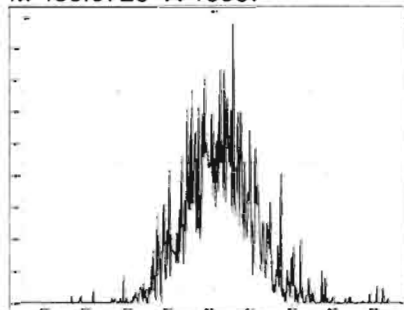
M 442.9728 R 12953



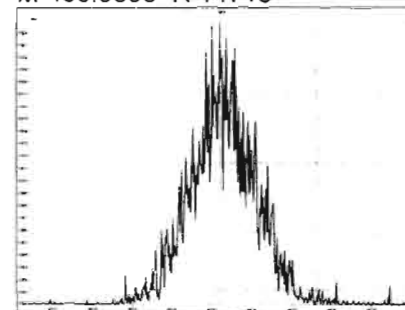
M 454.9728 R 13782



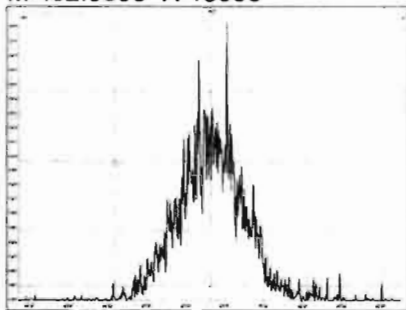
M 466.9728 R 15987



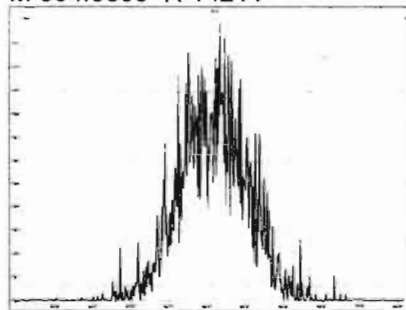
M 480.9696 R 14718



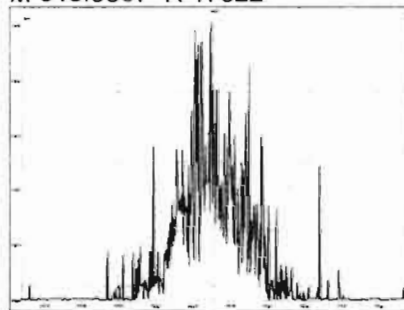
M 492.9696 R 13566



M 504.9696 R 14211



M 516.9697 R 17022



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200319R2-1

Reviewed By: CT 03/20/2020
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>	<u>GRB</u>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>N</u>
- Samples within 12 hour clock?	<u>(Y)</u>	<u>N</u>
- Bottle position verified?	<u>GRB</u>	<u>GRB</u>

Mass resolution >

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20% NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-2.qld

Last Altered: Friday, March 20, 2020 08:25:17 Pacific Daylight Time
Printed: Friday, March 20, 2020 08:25:42 Pacific Daylight Time

GPB 03/20/2020

C7 03/20/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_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	5.44e4	5.61e5	0.78	NO	0.983	25.77	25.75	NO	1.001	1.001	9.8616	98.6	NO
2	2 1,2,3,7,8-PeCDD	1.83e5	3.72e5	0.64	NO	0.921	31.07	31.06	NO	1.001	1.000	53.433	107	NO
3	3 1,2,3,4,7,8-HxCDD	1.79e5	3.14e5	1.25	NO	1.13	34.47	34.47	NO	1.000	1.000	50.304	101	NO
4	4 1,2,3,6,7,8-HxCDD	1.83e5	3.77e5	1.27	NO	0.984	34.57	34.58	NO	1.000	1.000	49.330	98.7	NO
5	5 1,2,3,7,8,9-HxCDD	1.71e5	3.51e5	1.23	NO	0.967	34.84	34.84	NO	1.000	1.000	50.472	101	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.33e5	2.66e5	1.02	NO	1.01	38.26	38.26	NO	1.000	1.000	49.710	99.4	NO
7	7 OCDD	2.43e5	4.76e5	0.88	NO	1.05	41.33	41.34	NO	1.000	1.000	96.941	96.9	NO
8	8 2,3,7,8-TCDF	7.51e4	8.72e5	0.75	NO	0.915	24.74	24.75	NO	1.001	1.001	9.4117	94.1	NO
9	9 1,2,3,7,8-PeCDF	3.07e5	6.30e5	1.63	NO	0.959	29.71	29.71	NO	1.001	1.001	50.714	101	NO
10	10 2,3,4,7,8-PeCDF	3.06e5	5.94e5	1.60	NO	1.00	30.76	30.74	NO	1.001	1.000	51.401	103	NO
11	11 1,2,3,4,7,8-HxCDF	2.40e5	4.81e5	1.23	NO	1.04	33.61	33.62	NO	1.000	1.000	48.004	96.0	NO
12	12 1,2,3,6,7,8-HxCDF	2.62e5	5.19e5	1.23	NO	1.01	33.73	33.74	NO	1.000	1.000	49.832	99.7	NO
13	13 2,3,4,6,7,8-HxCDF	2.54e5	4.76e5	1.22	NO	1.09	34.32	34.31	NO	1.001	1.001	48.856	97.7	NO
14	14 1,2,3,7,8,9-HxCDF	2.04e5	4.06e5	1.26	NO	1.03	35.16	35.17	NO	1.000	1.000	48.912	97.8	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.86e5	3.69e5	0.99	NO	1.05	36.89	36.87	NO	1.001	1.000	48.135	96.3	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.46e5	2.43e5	1.06	NO	1.21	38.91	38.92	NO	1.000	1.000	49.742	99.5	NO
17	17 OCDF	2.89e5	6.17e5	0.89	NO	0.947	41.51	41.52	NO	1.000	1.000	99.035	99.0	NO
18	18 13C-2,3,7,8-TCDD	5.61e5	4.83e5	0.78	NO	1.18	25.72	25.74	NO	1.029	1.029	98.076	98.1	NO
19	19 13C-1,2,3,7,8-PeCDD	3.72e5	4.83e5	0.64	NO	0.864	30.90	31.05	NO	1.236	1.242	88.989	89.0	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.14e5	4.72e5	1.27	NO	0.754	34.46	34.46	NO	1.014	1.014	88.249	88.2	NO
21	21 13C-1,2,3,6,7,8-HxCDD	3.77e5	4.72e5	1.28	NO	0.925	34.57	34.57	NO	1.017	1.017	86.371	86.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	3.51e5	4.72e5	1.25	NO	0.829	34.83	34.83	NO	1.025	1.025	89.757	89.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	2.66e5	4.72e5	1.07	NO	0.598	38.29	38.25	NO	1.127	1.125	94.367	94.4	NO
24	24 13C-OCDD	4.76e5	4.72e5	0.89	NO	0.571	41.44	41.33	NO	1.219	1.216	176.65	88.3	NO
25	25 13C-2,3,7,8-TCDF	8.72e5	8.34e5	0.79	NO	1.09	24.74	24.72	NO	0.990	0.989	96.025	96.0	NO
26	26 13C-1,2,3,7,8-PeCDF	6.30e5	8.34e5	1.61	NO	0.876	29.57	29.69	NO	1.183	1.188	86.269	86.3	NO
27	27 13C-2,3,4,7,8-PeCDF	5.94e5	8.34e5	1.57	NO	0.844	30.58	30.73	NO	1.223	1.229	84.383	84.4	NO
28	28 13C-1,2,3,4,7,8-HxCDF	4.81e5	4.72e5	0.51	NO	1.00	33.61	33.61	NO	0.989	0.989	101.97	102	NO
29	29 13C-1,2,3,6,7,8-HxCDF	5.19e5	4.72e5	0.52	NO	1.12	33.72	33.72	NO	0.992	0.992	98.330	98.3	NO
30	30 13C-2,3,4,6,7,8-HxCDF	4.76e5	4.72e5	0.51	NO	1.04	34.30	34.29	NO	1.009	1.009	97.458	97.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.06e5	4.72e5	0.52	NO	0.873	35.17	35.16	NO	1.035	1.034	98.510	98.5	NO

Dataset: U:\VG12.PRO\Results\200319R2\200319R2-2.qld

Last Altered: Friday, March 20, 2020 08:25:17 Pacific Daylight Time
Printed: Friday, March 20, 2020 08:25:42 Pacific Daylight Time

Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_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	3.69e5	4.72e5	0.44	NO	0.771	36.89	36.86	NO	1.085	1.084	101.61	102	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.43e5	4.72e5	0.43	NO	0.519	38.98	38.91	NO	1.147	1.145	99.276	99.3	NO
34	34 13C-OCDF	6.17e5	4.72e5	0.90	NO	0.696	41.62	41.51	NO	1.225	1.221	187.95	94.0	NO
35	35 37Cl-2,3,7,8-TCDD	5.55e4	4.83e5			1.17	25.73	25.75	NO	1.029	1.030	9.7676	97.7	NO
36	36 13C-1,2,3,4-TCDD	4.83e5	4.83e5	0.82	NO	1.00	25.05	25.00	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	8.34e5	8.34e5	0.81	NO	1.00	23.19	23.04	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	4.72e5	4.72e5	0.52	NO	1.00	33.88	33.99	NO	1.000	1.000	100.00	100	YES*
39	39 Total Tetra-Dioxins		5.61e5			0.983	24.62		NO	0.000		88.829		NO
40	40 Total Penta-Dioxins		3.72e5			0.921	29.96		NO	0.000		238.09		NO
41	41 Total Hexa-Dioxins		0.00e0			0.984	33.63		NO	0.000		248.38		NO
42	42 Total Hepta-Dioxins		2.66e5			1.01	37.64		NO	0.000		134.92		NO
43	43 Total Tetra-Furans		8.72e5			0.915	23.61		NO	0.000		47.485		NO
44	44 1st Func. Penta-Furans		0.00e0			0.959	27.09		NO	0.000		78.759		NO
45	45 Total Penta-Furans		0.00e0			0.959	29.27		NO	0.000		176.00		NO
46	46 Total Hexa-Furans		0.00e0			1.09	33.56		NO	0.000		277.38		NO
47	47 Total Hepta-Furans		0.00e0			1.05	37.83		NO	0.000		98.086		NO

Dataset: Untitled

Last Altered: Friday, March 20, 2020 13:09:46 Pacific Daylight Time
Printed: Friday, March 20, 2020 13:09:58 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Compound name: 2,3,7,8-TCDD

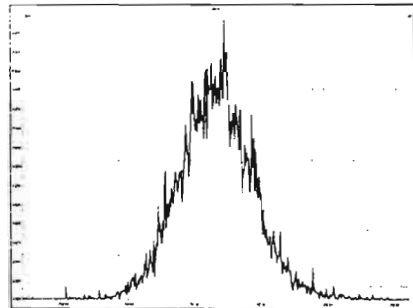
	Name	ID	Acq.Date	Acq.Time
1	200319R2_1	SOLVENT BLANK	20-Mar-20	05:11:19
2	200319R2_2	ST200319R2_1 1613 CS3 19L2305	20-Mar-20	05:57:35
3	200319R2_3	SOLVENT BLANK	20-Mar-20	06:45:13
4	200319R2_4	2000195-05 PDI-074SC-A-06-07-191012 16.14	20-Mar-20	07:32:59
5	200319R2_5	2000195-06 PDI-074SC-A-07-08-191012 14.77	20-Mar-20	08:20:37
6	200319R2_6	2000195-07 PDI-076SC-A-08-09-191013 15.91	20-Mar-20	09:08:21
7	200319R2_7	2000195-08 PDI-076SC-A-09-10-191013 14.22	20-Mar-20	09:56:00
8	200319R2_8	2000195-09 PDI-100SC-J-04-05-190926 13.44	20-Mar-20	10:43:43
9	200319R2_9	2000195-10 PDI-100SC-J-05-06-190926 12.18	20-Mar-20	11:31:23
10	200319R2_10	2000195-09 PDI-100SC-J-04-05-190926 13.44	20-Mar-20	12:19:28

Resolution Check Report

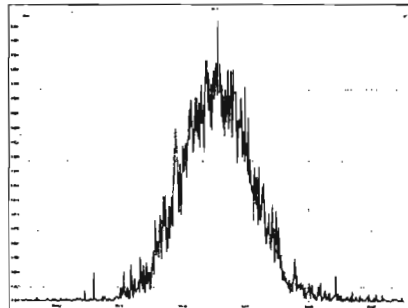
MassLynx 4.1 SCN815

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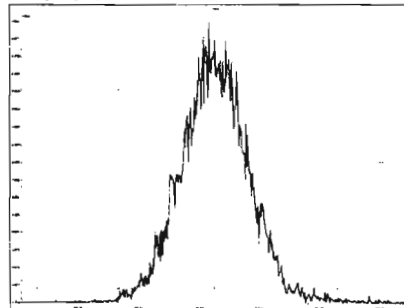
M 292.9824 R 11604



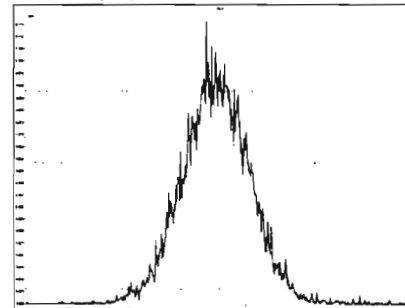
M 304.9824 R 13091



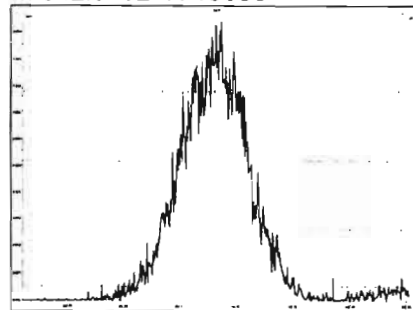
M 318.9792 R 12691



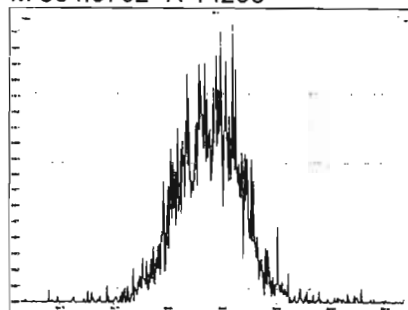
M 330.9792 R 12726



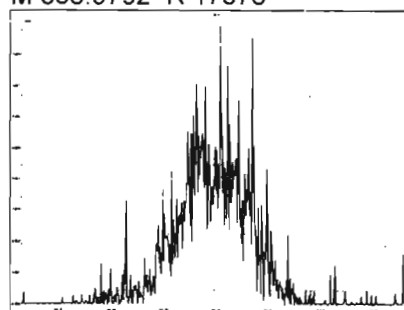
M 342.9792 R 13065



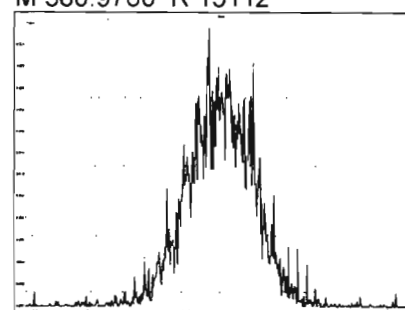
M 354.9792 R 14295



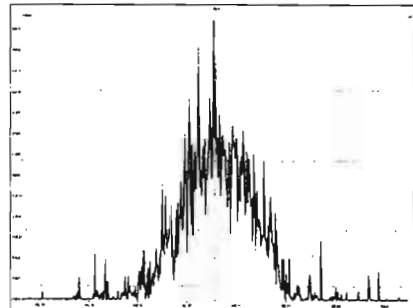
M 366.9792 R 17576



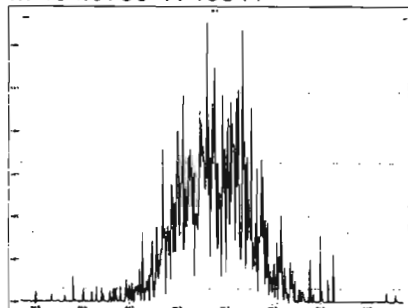
M 380.9760 R 15112



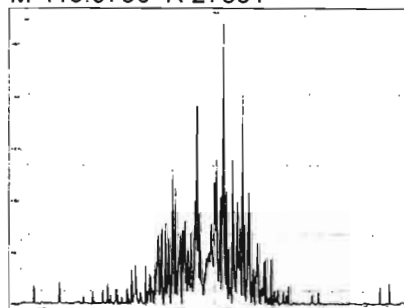
M 392.9760 R 13909



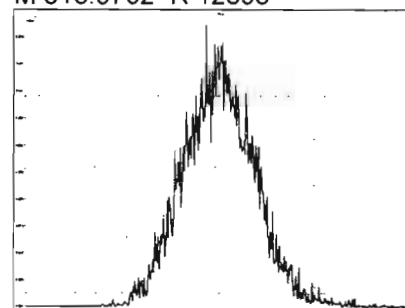
M 404.9760 R 16541



M 416.9760 R 27851

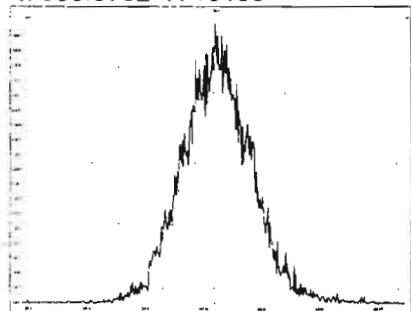


M 318.9792 R 12698

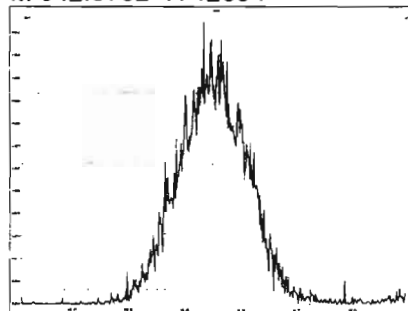


Printed: Friday, March 20, 2020 05:11:17 Pacific Daylight Time

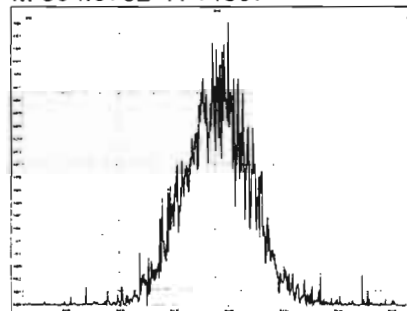
M 330.9792 R 13199



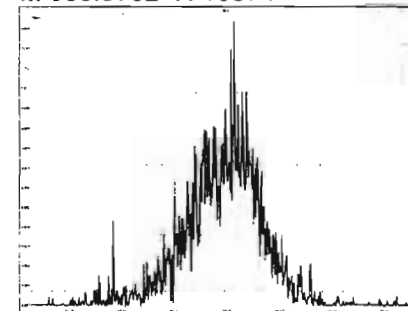
M 342.9792 R 12594



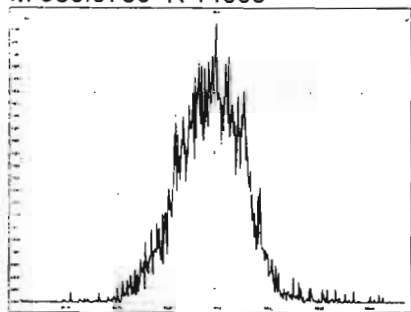
M 354.9792 R 14837



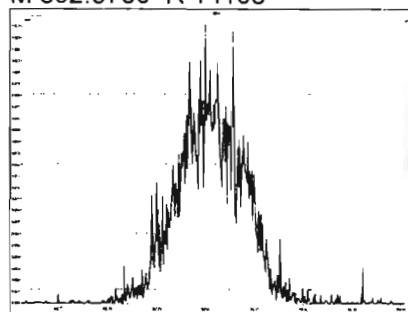
M 366.9792 R 15874



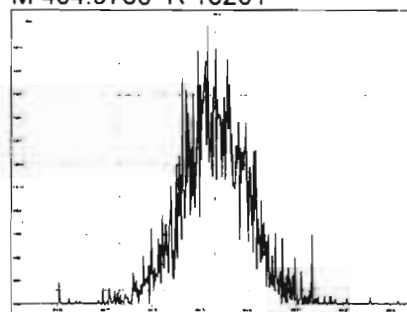
M 380.9760 R 14006



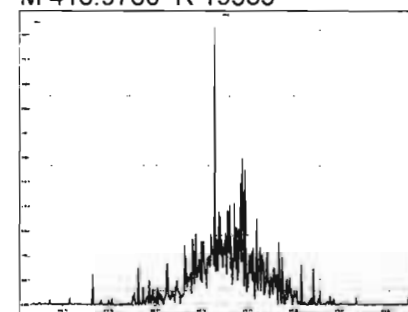
M 392.9760 R 14108



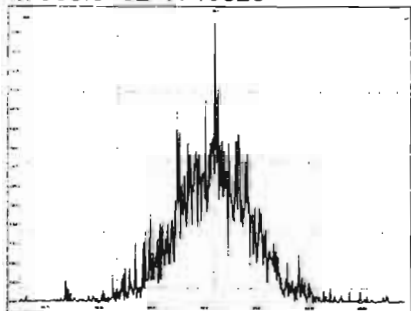
M 404.9760 R 15201



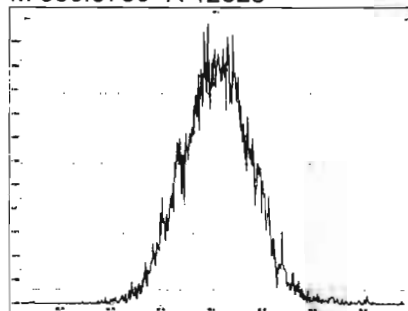
M 416.9760 R 19535



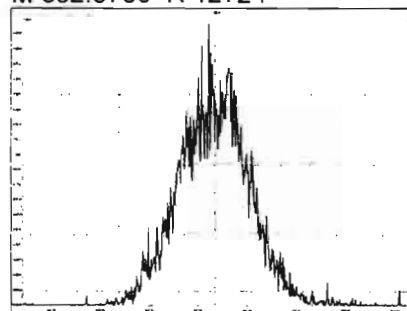
M 366.9792 R 13626



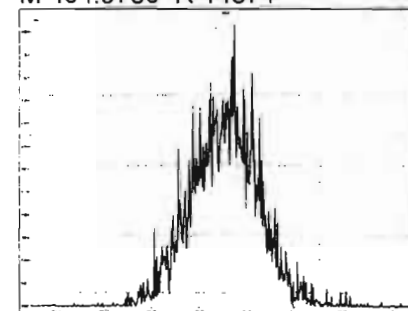
M 380.9760 R 12828



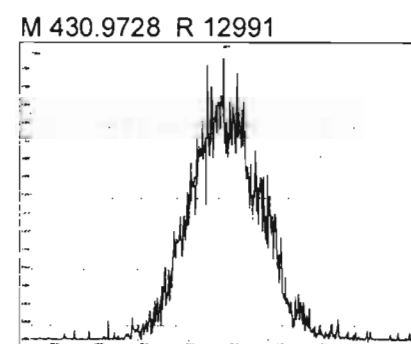
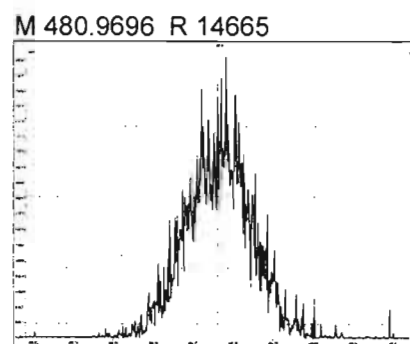
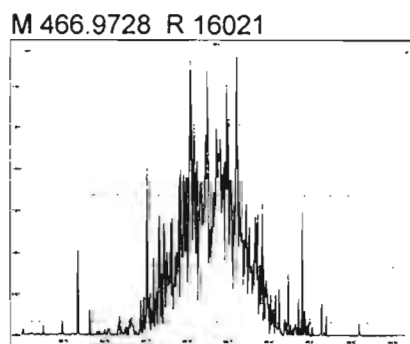
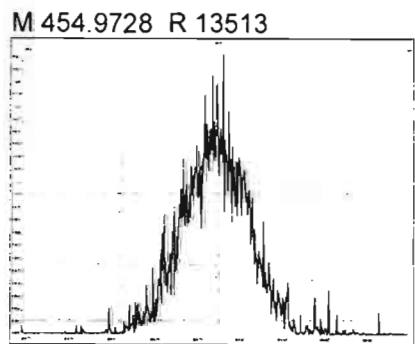
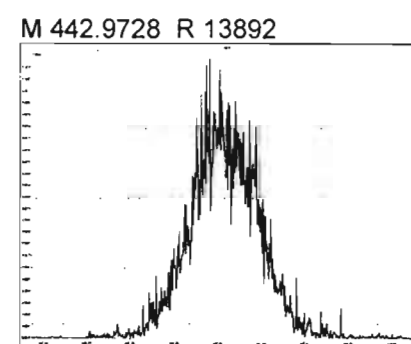
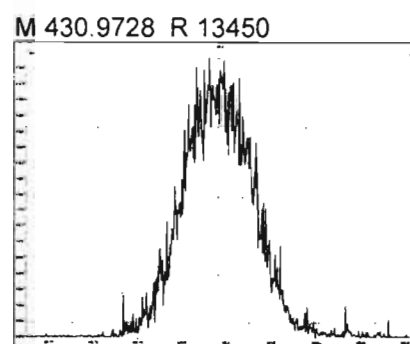
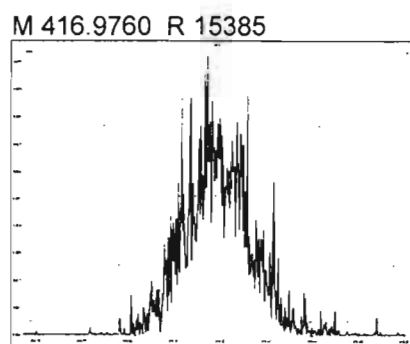
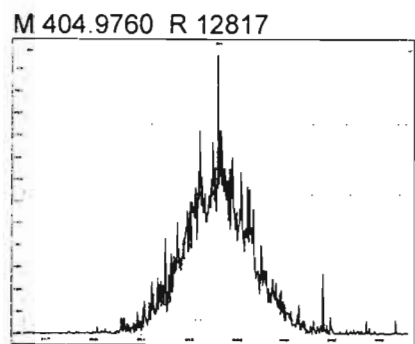
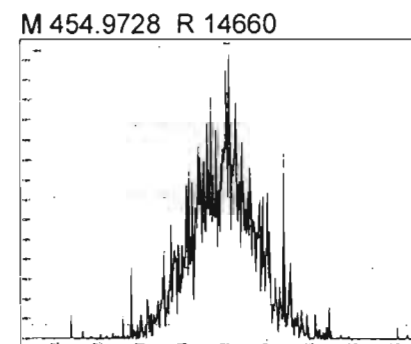
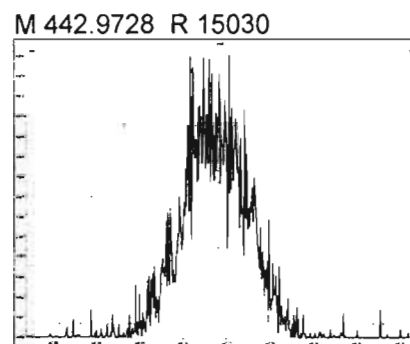
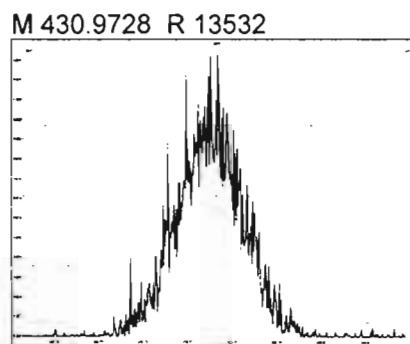
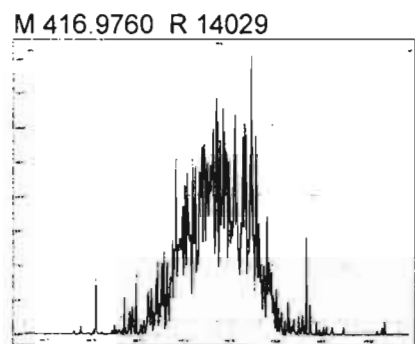
M 392.9760 R 12724



M 404.9760 R 14374

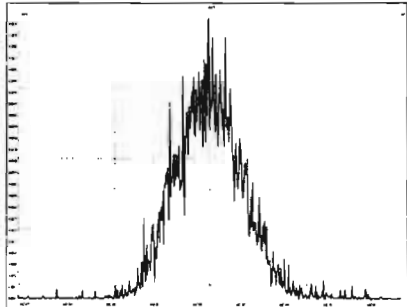


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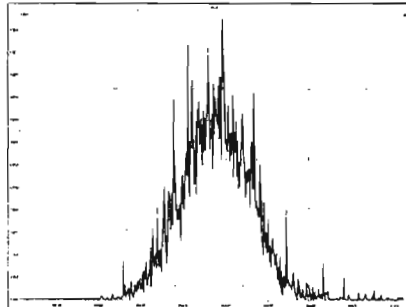


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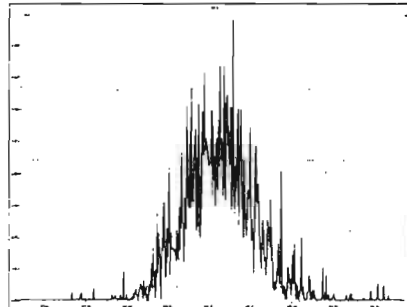
M 442.9728 R 12953



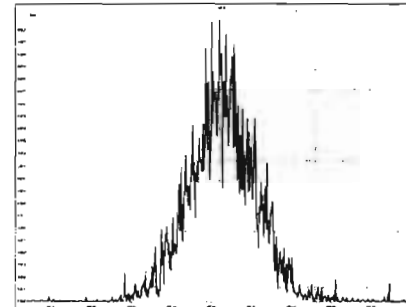
M 454.9728 R 13782



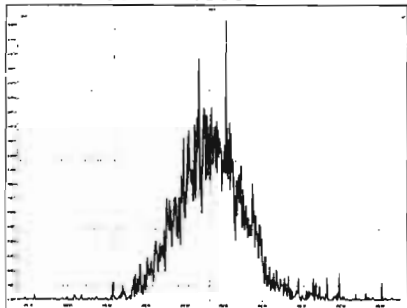
M 466.9728 R 15987



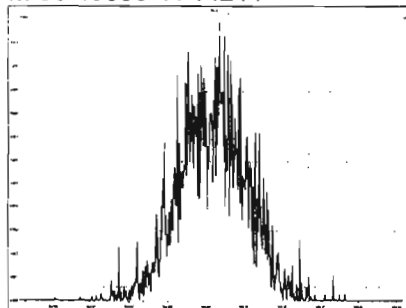
M 480.9696 R 14718



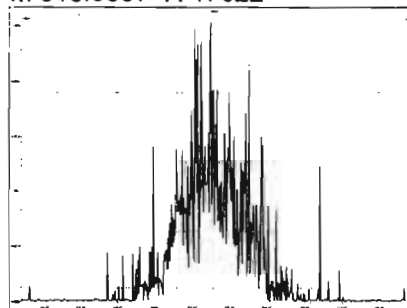
M 492.9696 R 13566



M 504.9696 R 14211



M 516.9697 R 17022



Dataset: Untitled

Last Altered: Friday, March 20, 2020 08:29:28 Pacific Daylight Time

Printed: Friday, March 20, 2020 08:29:42 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.36
2	1,2,8,9-TCDD (Last)	26.81
3	1,2,4,7,9-PeCDD (First)	28.74
4	1,2,3,8,9-PeCDD (Last)	31.46
5	1,2,4,6,7,9-HxCDD (First)	33.00
6	1,2,3,7,8,9-HxCDD (Last)	34.84
7	1,2,3,4,6,7,9-HpCDD (First)	37.25
8	1,2,3,4,6,7,8-HpCDD (Last)	38.26
9	1,3,6,8-TCDF (First)	19.37
10	1,2,8,9-TCDF (Last)	26.96
11	1,3,4,6,8-PeCDF (First)	26.93
12	1,2,3,8,9-PeCDF (Last)	31.70
13	1,2,3,4,6,8-HxCDF (First)	32.44
14	1,2,3,7,8,9-HxCDF (Last)	35.17
15	1,2,3,4,6,7,8-HpCDF (First)	36.87
16	1,2,3,4,7,8,9-HpCDF (Last)	38.92

Dataset: Untitled

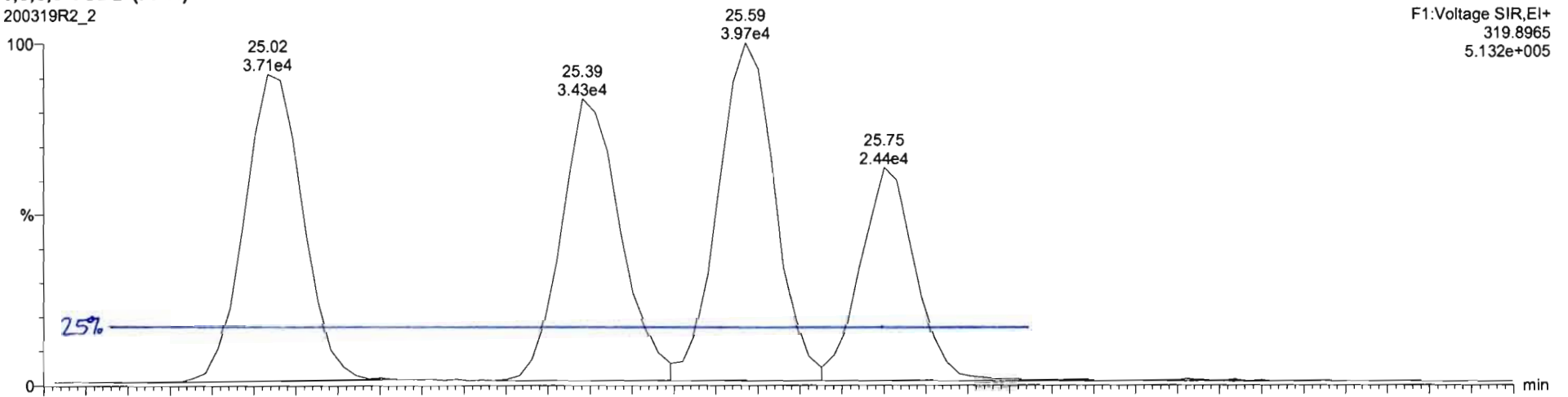
Last Altered: Friday, March 20, 2020 08:29:28 Pacific Daylight Time
Printed: Friday, March 20, 2020 08:29:42 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 15 Mar 2020 13:05:01
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

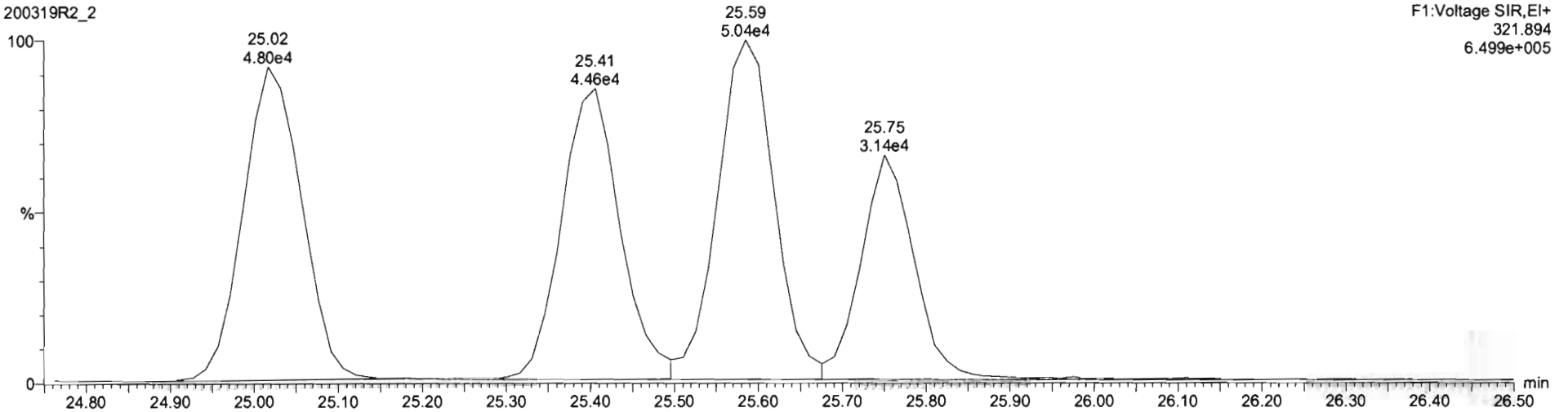
1,3,6,8-TCDD (First)
200319R2_2

F1:Voltage SIR,EI+
319.8965
5.132e+005



200319R2_2

F1:Voltage SIR,EI+
321.894
6.499e+005



Dataset: Untitled

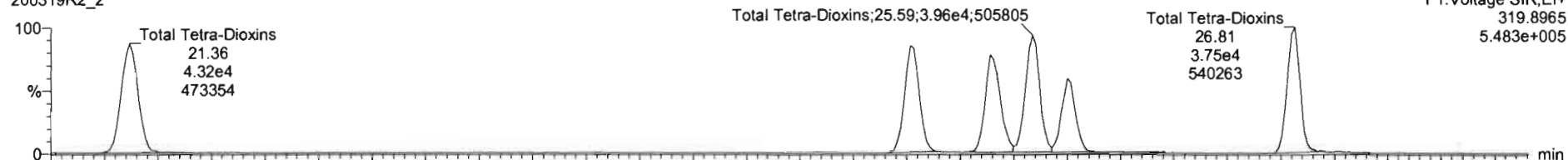
Last Altered: Friday, March 20, 2020 08:27:40 Pacific Daylight Time
Printed: Friday, March 20, 2020 08:28:52 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

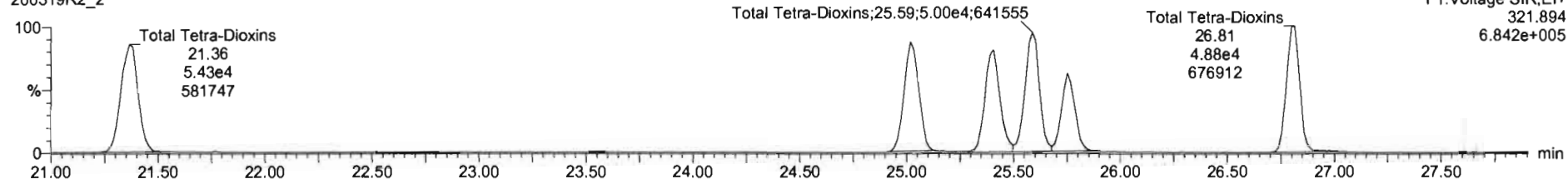
Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200319R2_2

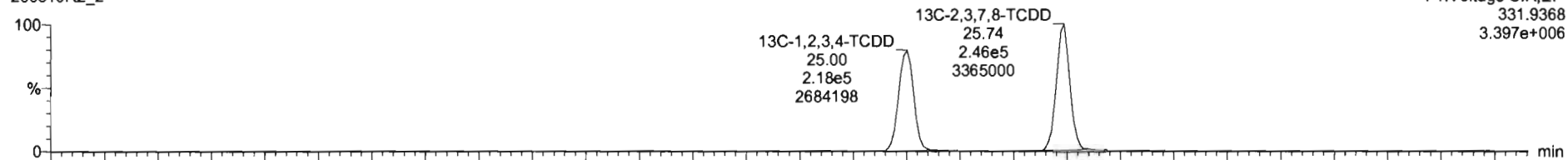


200319R2_2

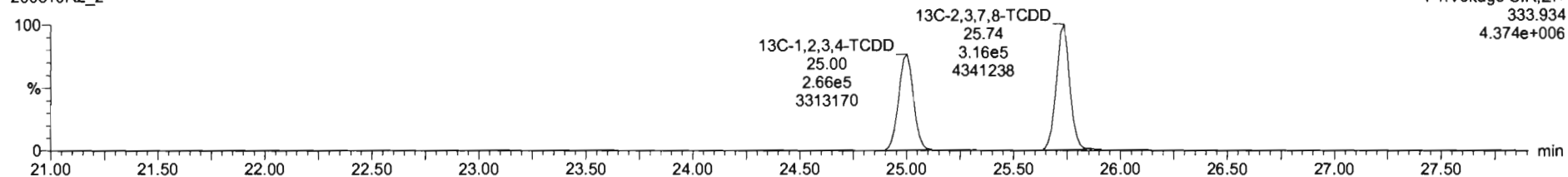


13C-2,3,7,8-TCDD

200319R2_2



200319R2_2



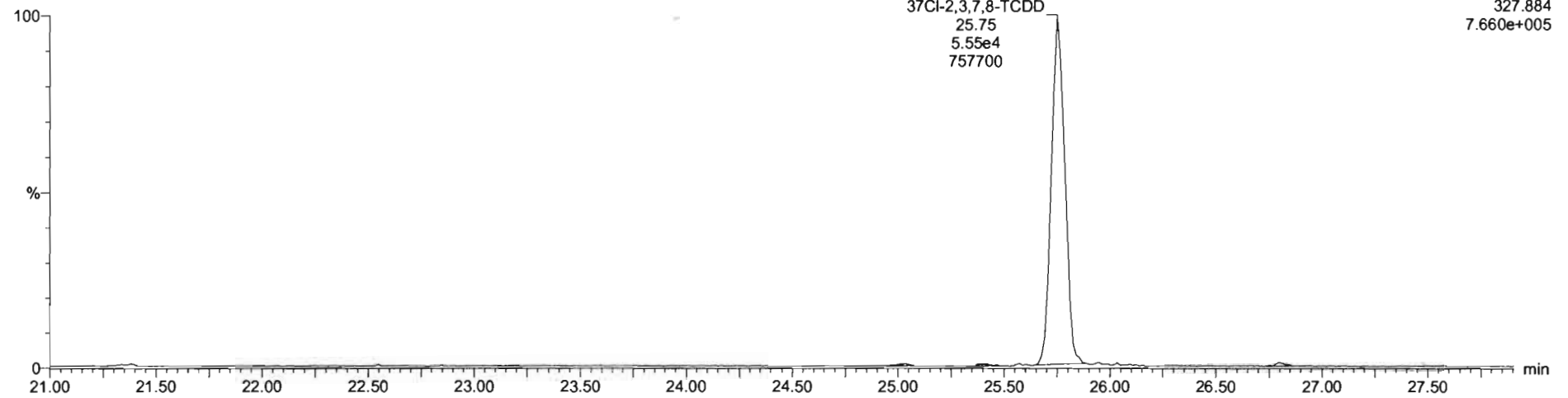
Dataset: Untitled

Last Altered: Friday, March 20, 2020 08:27:40 Pacific Daylight Time
Printed: Friday, March 20, 2020 08:28:52 Pacific Daylight Time

Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

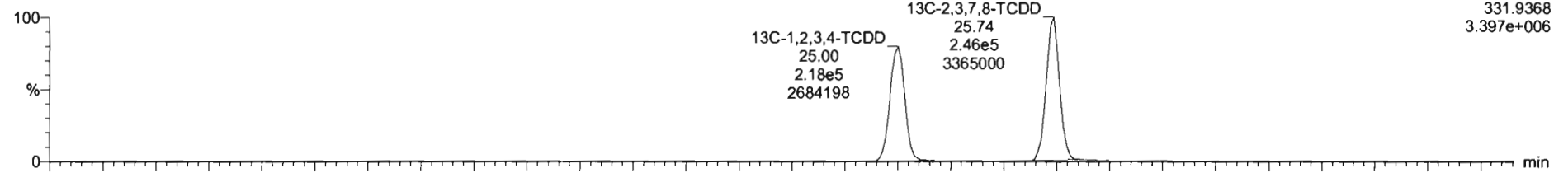
37Cl-2,3,7,8-TCDD

200319R2_2

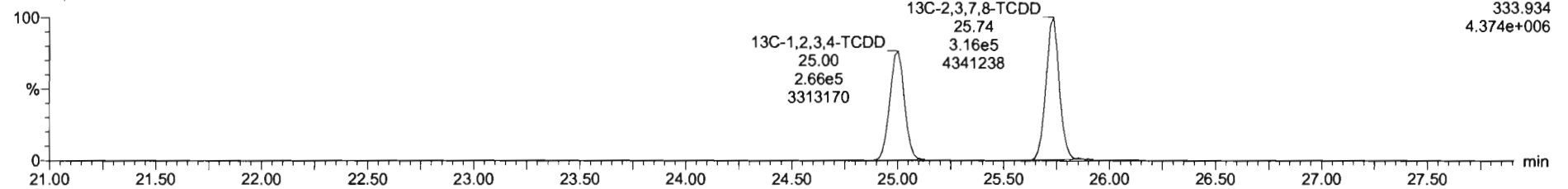


13C-1,2,3,4-TCDD

200319R2_2



200319R2_2



Dataset: Untitled

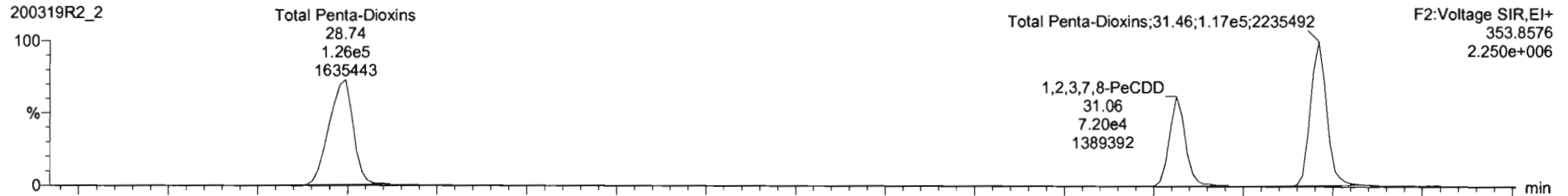
Last Altered: Friday, March 20, 2020 08:27:40 Pacific Daylight Time

Printed: Friday, March 20, 2020 08:28:52 Pacific Daylight Time

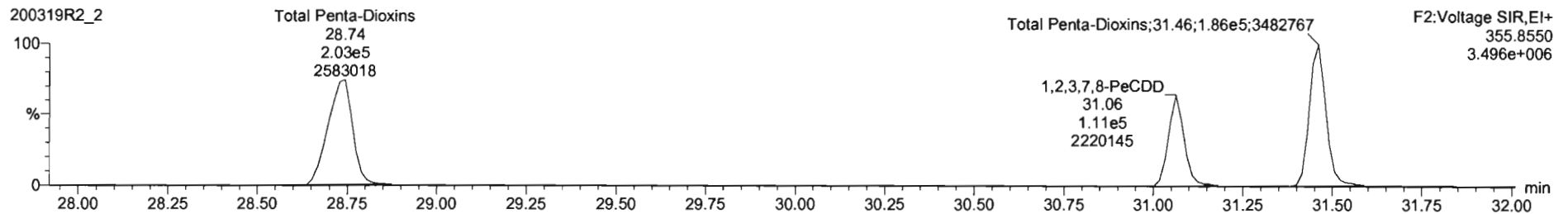
Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200319R2_2

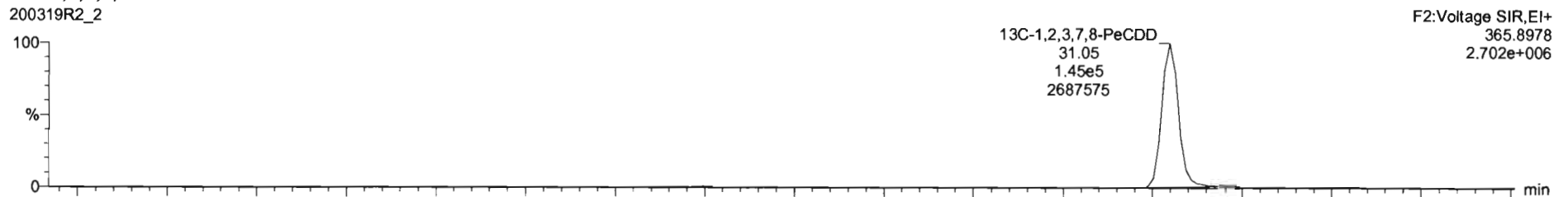


200319R2_2

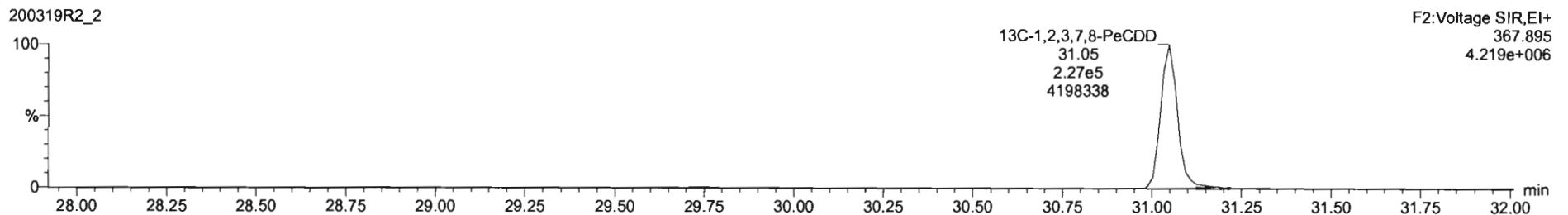


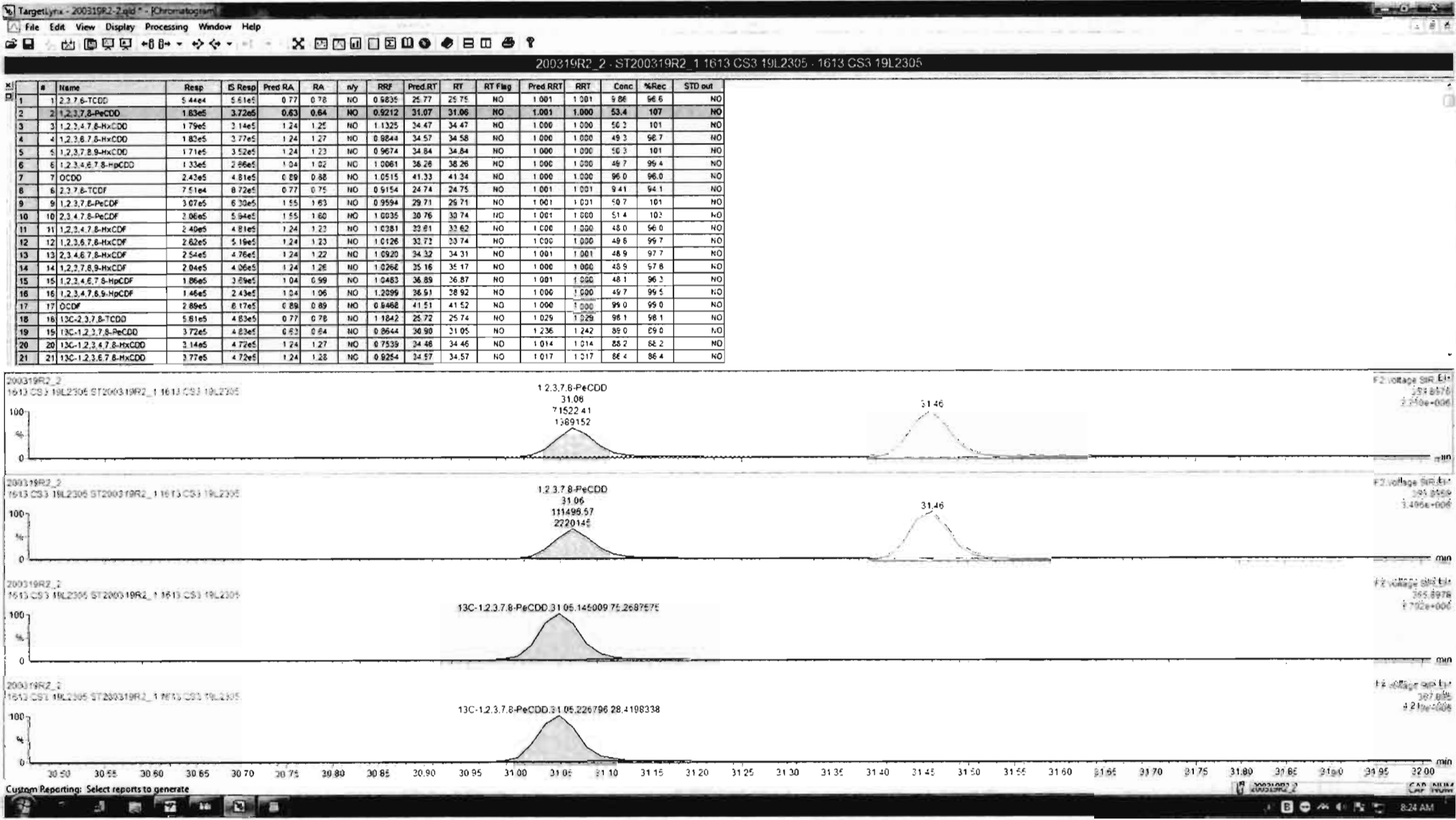
13C-1,2,3,7,8-PeCDD

200319R2_2



200319R2_2





Dataset: Untitled

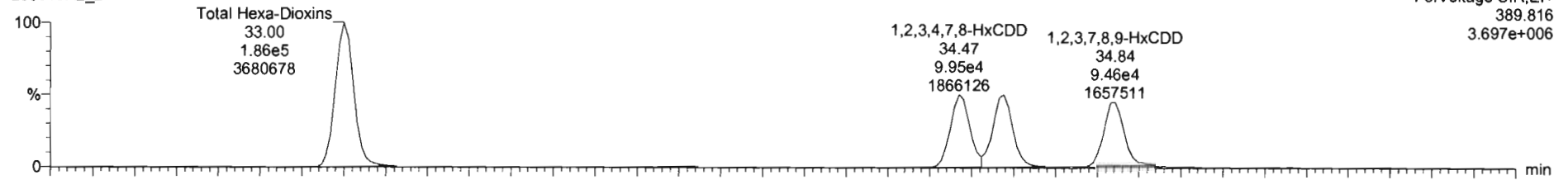
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Printed: Friday, March 20, 2020 08:28:52 Pacific Daylight Time

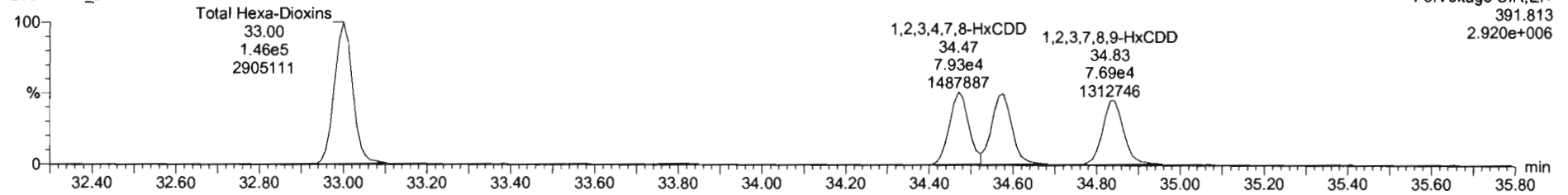
Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200319R2_2

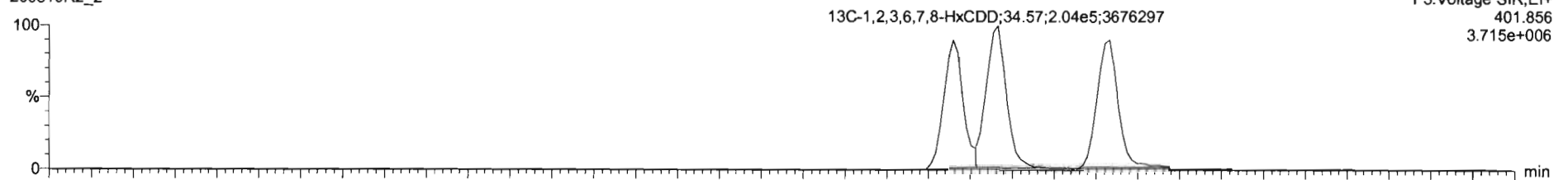


200319R2_2

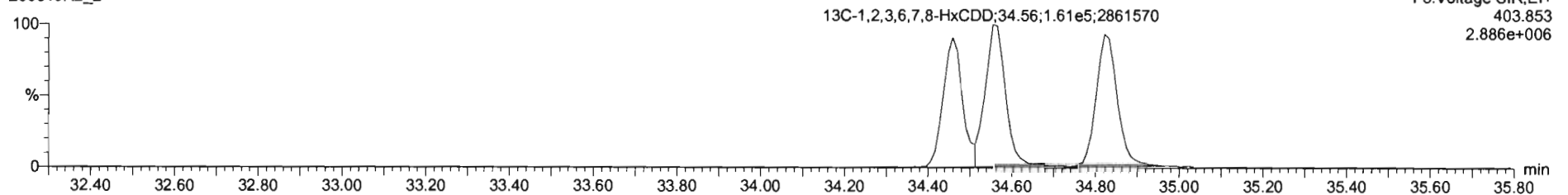


13C-1,2,3,4,7,8-HxCDD

200319R2_2

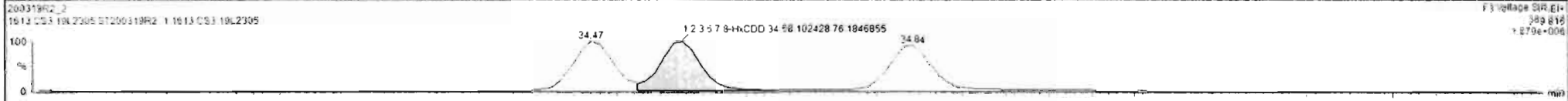


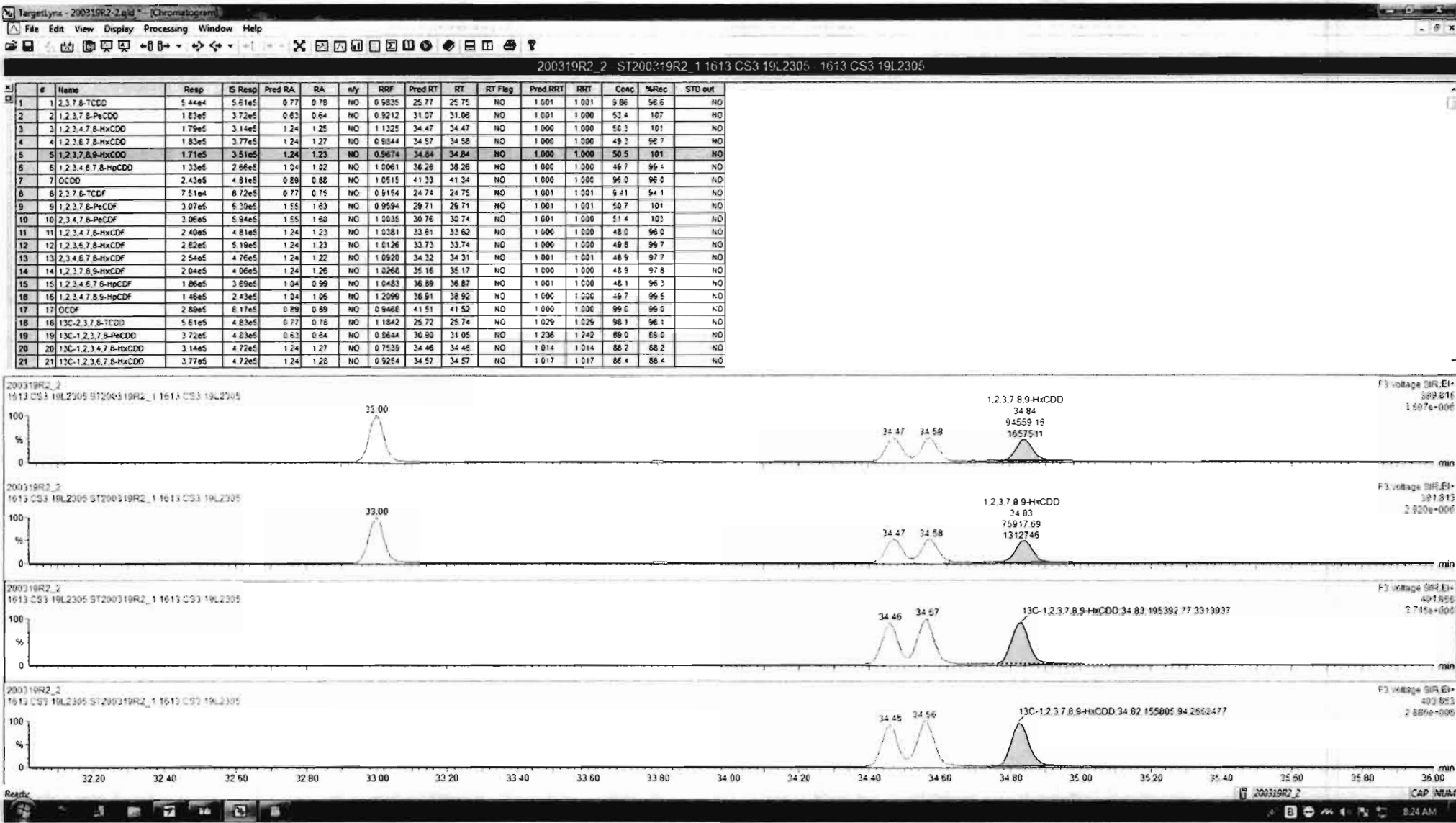
200319R2_2



200319R2_2 - ST200319R2_1 1613 CS3 19L2305 - 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	n/y	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Cenc	%Rec	STD out
1	1,2,3,7,8-TCDD	5.44e4	5.61e5	0.77	0.78	NO	0.9835	25.77	25.75	NO	1.001	1.001	9.86	98.6	NO
2	1,2,3,7,8-PeCDD	1.83e5	3.72e5	0.63	0.64	NO	0.9212	31.07	31.08	NO	1.001	1.000	53.4	107	NO
3	1,2,3,4,7,8-HxCDD	1.79e5	3.14e5	1.24	1.25	NO	1.1325	34.47	34.47	NO	1.000	1.000	58.3	101	NO
4	1,2,3,6,7,8-HxCDD	1.83e5	3.77e5	1.24	1.27	NO	0.9844	34.57	34.58	NO	1.000	1.000	49.3	98.7	NO
5	1,2,3,7,8,9-HxCDD	1.71e5	3.52e5	1.24	1.23	NO	0.9674	34.84	34.84	NO	1.000	1.000	56.3	101	NO
6	1,2,3,4,6,7,8-HpCDD	1.33e5	2.86e5	1.04	1.02	NO	1.0061	38.28	38.28	NO	1.000	1.000	49.7	95.4	NO
7	OCDD	2.43e5	4.81e5	0.89	0.88	NO	1.0515	41.33	41.34	NO	1.000	1.000	96.0	98.0	NO
8	2,3,7,8-TCDF	7.51e4	8.72e5	0.77	0.75	NO	0.9154	24.74	24.75	NO	1.001	1.001	9.41	94.1	NO
9	1,2,3,7,8-PeCDF	3.07e5	6.30e5	1.55	1.63	NO	0.9594	29.71	29.71	NO	1.001	1.001	50.7	101	NO
10	1,2,3,4,7,8-PeCDF	3.06e5	5.94e5	1.55	1.60	NO	1.0035	30.76	30.74	NO	1.001	1.000	51.4	103	NO
11	1,2,3,4,7,8-HxCDF	2.40e5	4.81e5	1.24	1.23	NO	1.0281	33.61	33.62	NO	1.000	1.000	48.0	96.0	NO
12	1,2,3,6,7,8-HxCDF	2.62e5	5.19e5	1.24	1.23	NO	1.0126	33.73	33.74	NO	1.000	1.000	49.8	99.7	NO
13	1,2,3,4,6,7,8-HxCDF	2.54e5	4.76e5	1.24	1.22	NO	1.0920	34.32	34.31	NO	1.001	1.001	48.9	97.7	NO
14	1,2,3,7,8,9-HxCDF	2.04e5	4.06e5	1.24	1.26	NO	1.0268	35.16	35.17	NO	1.000	1.000	48.9	97.8	NO
15	1,2,3,4,6,7,8-HpCDF	1.86e5	3.69e5	1.04	0.99	NO	1.0463	36.89	36.87	NO	1.001	1.000	48.1	96.3	NO
16	1,2,3,4,7,8,9-HpCDF	1.48e5	2.43e5	1.04	1.06	NO	1.2096	38.91	38.92	NO	1.000	1.000	49.7	99.5	NO
17	OCDF	2.89e5	6.17e5	0.89	0.89	NO	0.9468	41.51	41.52	NO	1.000	1.000	59.0	99.0	NO
18	13C-1,2,3,7,8-TCDD	5.61e5	4.83e5	0.77	0.78	NO	1.1842	25.72	25.74	NO	1.029	1.029	55.1	95.1	NO
19	13C-1,2,3,7,8-PeCDD	3.72e5	4.83e5	0.63	0.64	NO	0.9644	30.90	31.05	NO	1.236	1.242	89.0	69.0	NO
20	13C-1,2,3,4,7,8-HxCDD	3.14e5	4.72e5	1.24	1.27	NO	0.7539	34.48	34.46	NO	1.014	1.014	86.2	58.2	NO
21	13C-1,2,3,6,7,8-HxCDD	3.77e5	4.72e5	1.24	1.28	NO	0.9254	34.57	34.57	NO	1.017	1.017	86.4	86.4	NO





Dataset: Untitled

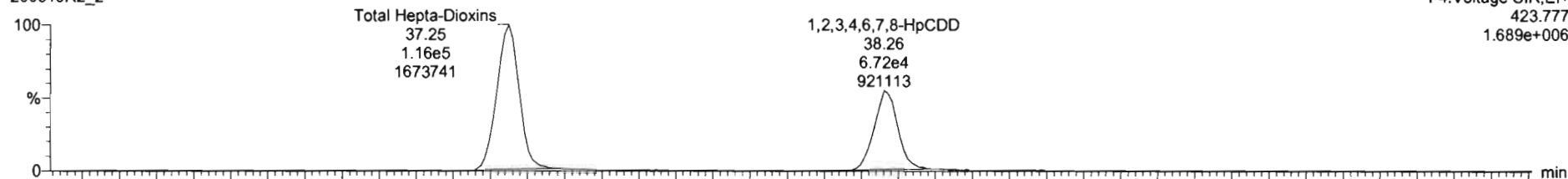
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Printed: Friday, March 20, 2020 08:28:52 Pacific Daylight Time

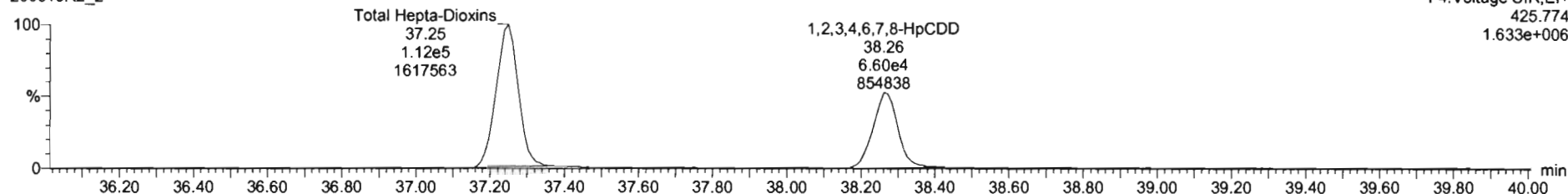
Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200319R2_2

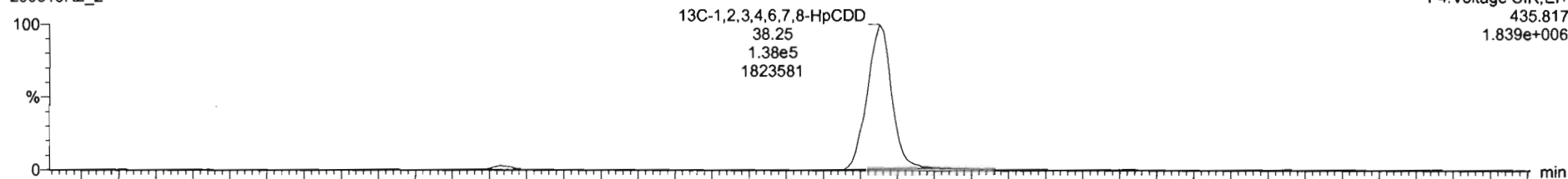


200319R2_2

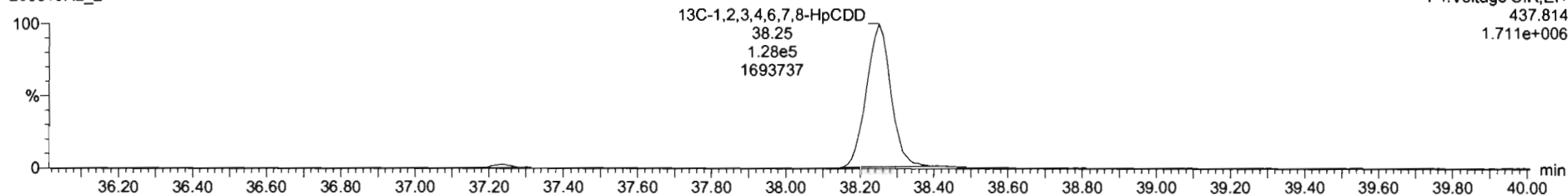


13C-1,2,3,4,6,7,8-HpCDD

200319R2_2



200319R2_2



Dataset: Untitled

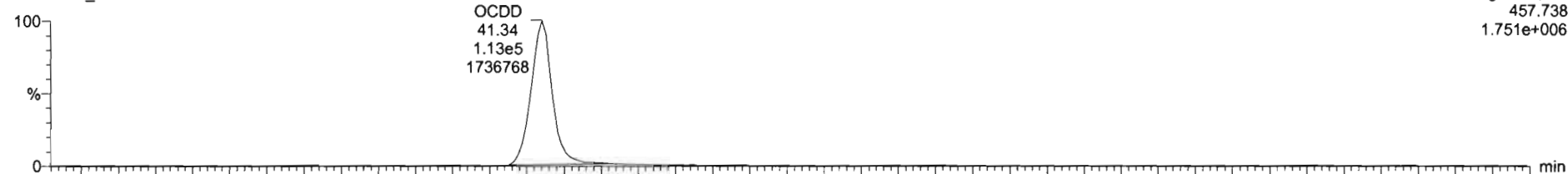
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Printed: Friday, March 20, 2020 08:28:52 Pacific Daylight Time

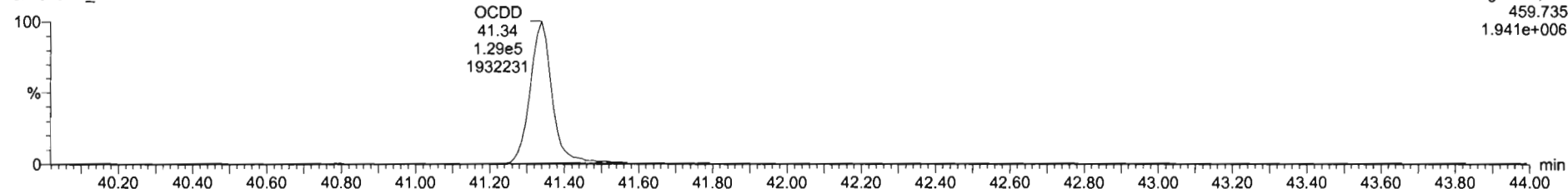
Name: 200319R2_2, Date: 20-Mar-2020, Time: 05:57:35, ID: ST200319R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

OCDD

200319R2_2

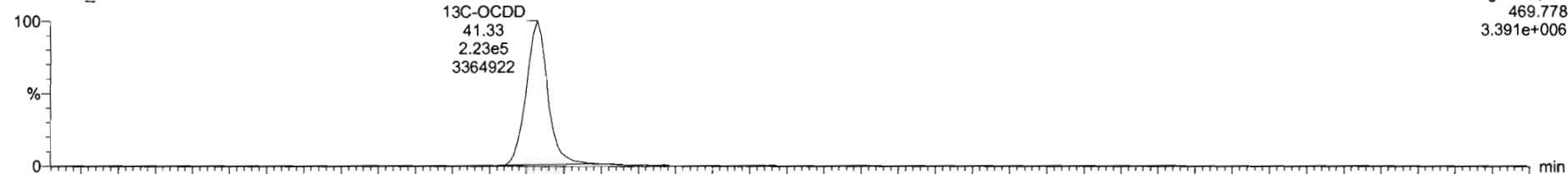


200319R2_2

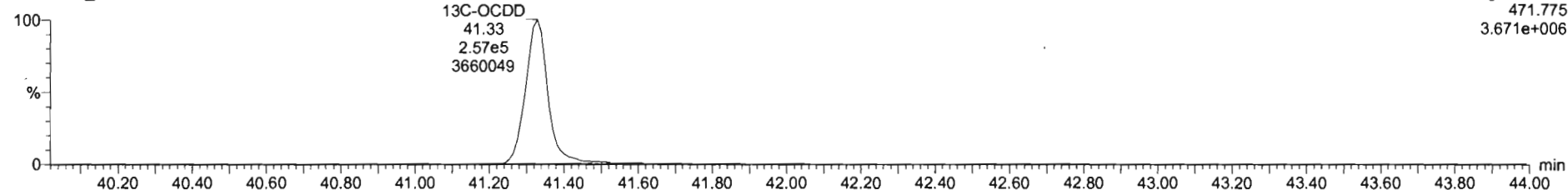


13C-OCDD

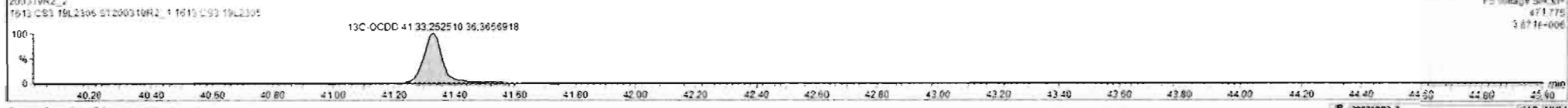
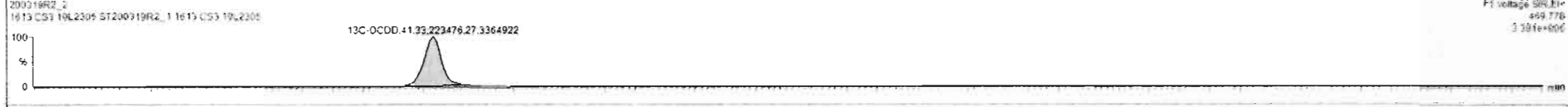
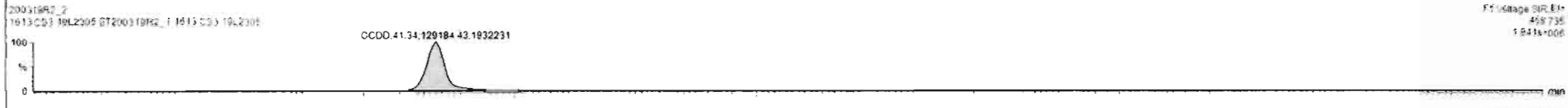
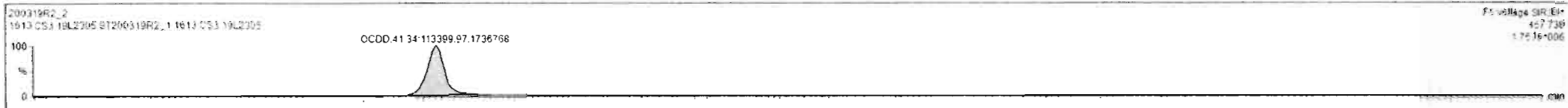
200319R2_2



200319R2_2



#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1.2.3.7.8-TCDD	5.44e4	5.61e5	0.77	0.78	NO	0.9835	25.77	25.75	NO	1.001	1.001	9.86	96.6	NO
2	1.2.3.7.8-PeCDD	1.83e5	3.72e5	0.63	0.64	NO	0.9212	31.07	31.06	NO	1.001	1.000	53.4	107	NO
3	1.2.3.4.7.8-HxCDD	1.79e5	3.14e5	1.24	1.25	NO	1.1325	34.47	34.47	NO	1.000	1.000	50.3	101	NO
4	1.2.3.6.7.8-HxCDD	1.83e5	3.77e5	1.24	1.27	NO	0.9844	34.57	34.58	NO	1.000	1.000	49.3	96.7	NO
5	1.2.3.7.8-HxCDD	1.71e5	3.51e5	1.24	1.23	NO	0.9674	34.84	34.84	NO	1.000	1.000	50.5	101	NO
6	1.2.3.4.6.7.8-HpCDD	1.33e5	2.66e5	1.04	1.02	NO	1.0061	36.28	36.26	NO	1.000	1.000	49.7	95.4	NO
7	OCDD	2.43e5	4.76e5	0.89	0.88	NO	1.0515	41.33	41.34	NO	1.000	1.000	96.0	96.0	NO
8	2.3.7.8-TCDF	7.51e4	8.72e5	0.77	0.75	NO	0.9154	24.74	24.75	NO	1.001	1.001	9.41	94.1	NO
9	1.2.3.7.8-PeCDF	3.07e5	6.20e5	1.55	1.63	NO	0.9594	29.71	29.71	NO	1.001	1.001	50.7	101	NO
10	2.3.4.7.8-PeCDF	3.06e5	5.94e5	1.55	1.60	NO	1.0035	30.76	30.74	NO	1.001	1.000	51.4	103	NO
11	1.2.3.4.7.8-HxCDF	2.40e5	4.81e5	1.24	1.23	NO	1.0381	33.61	33.62	NO	1.000	1.000	48.0	98.0	NO
12	1.2.3.6.7.8-HxCDF	2.62e5	5.19e5	1.24	1.23	NO	1.0128	33.72	33.74	NO	1.000	1.000	49.8	99.7	NO
13	2.3.4.6.7.8-HxCDF	2.54e5	4.76e5	1.24	1.22	NO	1.0920	34.32	34.31	NO	1.001	1.001	48.9	97.7	NO
14	1.2.3.7.8-HxCDF	2.04e5	4.06e5	1.24	1.25	NO	1.0262	35.16	35.17	NO	1.000	1.000	46.9	97.8	NO
15	1.2.3.4.6.7.8-HpCDF	1.86e5	3.69e5	1.04	0.99	NO	1.0483	36.89	36.87	NO	1.001	1.000	48.1	96.2	NO
16	1.2.3.4.7.8.9-HpCDF	1.46e5	2.43e5	1.04	1.06	NO	1.2099	38.51	38.92	NO	1.000	1.000	45.7	95.5	NO
17	OCDF	2.89e5	5.17e5	0.89	0.89	NO	0.9468	41.51	41.52	NO	1.000	1.000	99.0	99.0	NO
18	13C-1.2.3.7.8-TCDD	5.61e5	4.83e5	0.77	0.78	NO	1.1842	25.72	25.74	NO	1.025	1.025	98.1	98.1	NO
19	13C-1.2.3.7.8-PeCDD	3.72e5	4.63e5	0.63	0.64	NO	0.8644	30.90	31.05	NO	1.236	1.242	89.0	69.0	NO
20	13C-1.2.3.4.7.8-HxCDD	3.14e5	4.72e5	1.24	1.27	NO	0.7539	34.46	34.45	NO	1.014	1.014	86.2	86.2	NO
21	13C-1.2.3.6.7.8-HxCDD	3.77e5	4.72e5	1.24	1.26	NO	0.9254	34.57	34.57	NO	1.017	1.017	86.4	86.4	NO

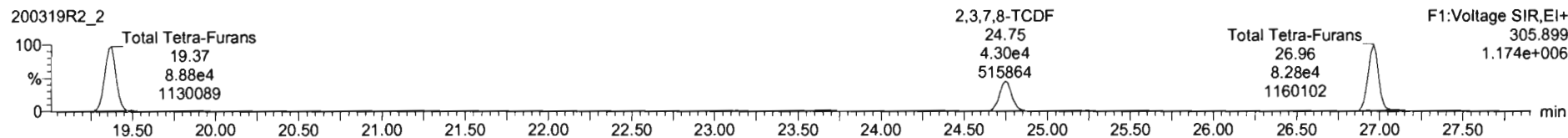
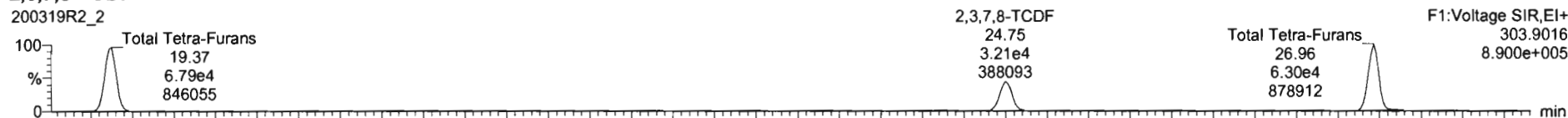


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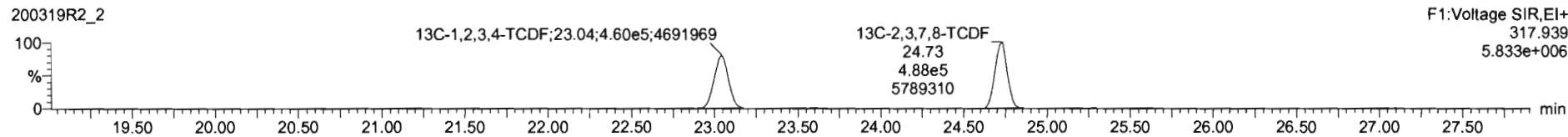
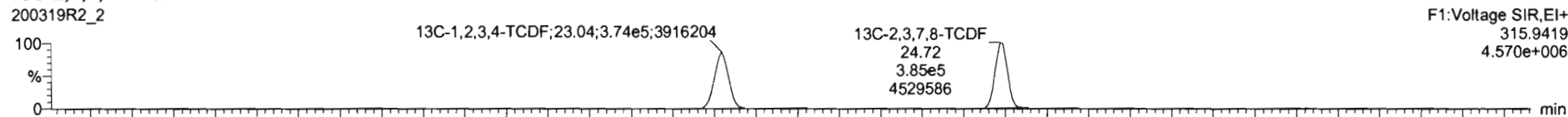
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Printed: Friday, March 20, 2020 08:28:52 Pacific Daylight Time

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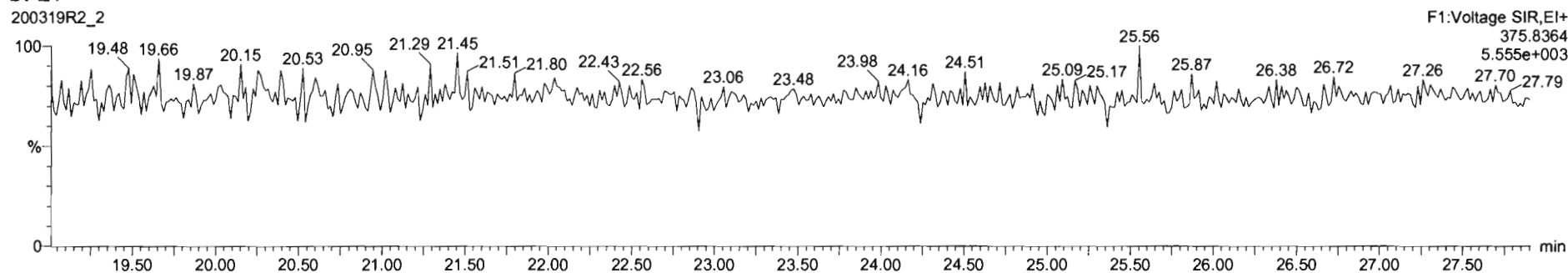
2,3,7,8-TCDF



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



DPE1



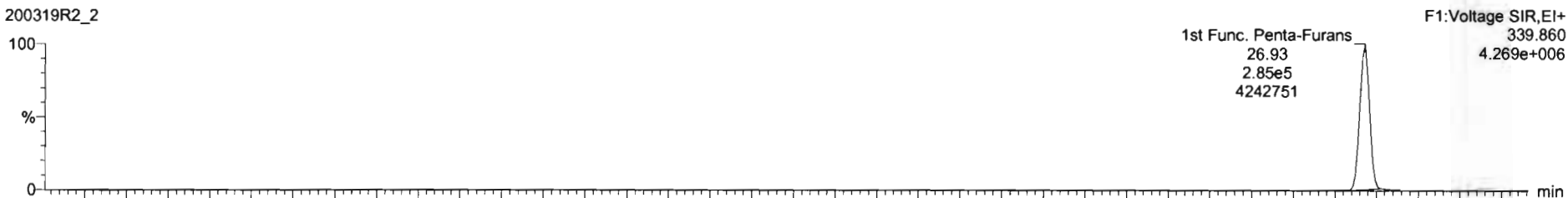
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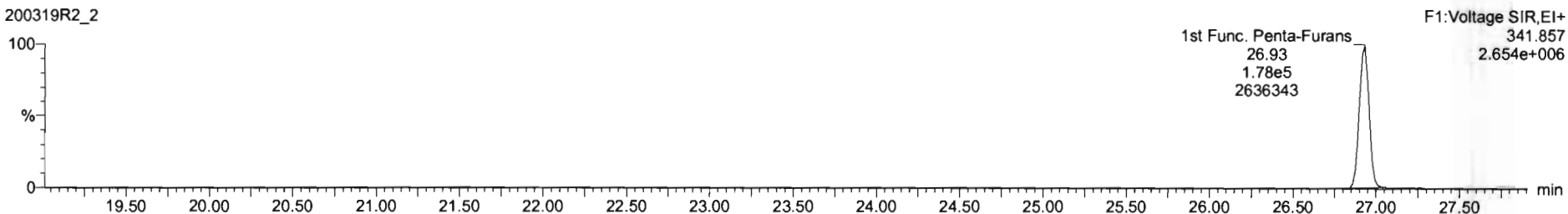
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200319R2_2

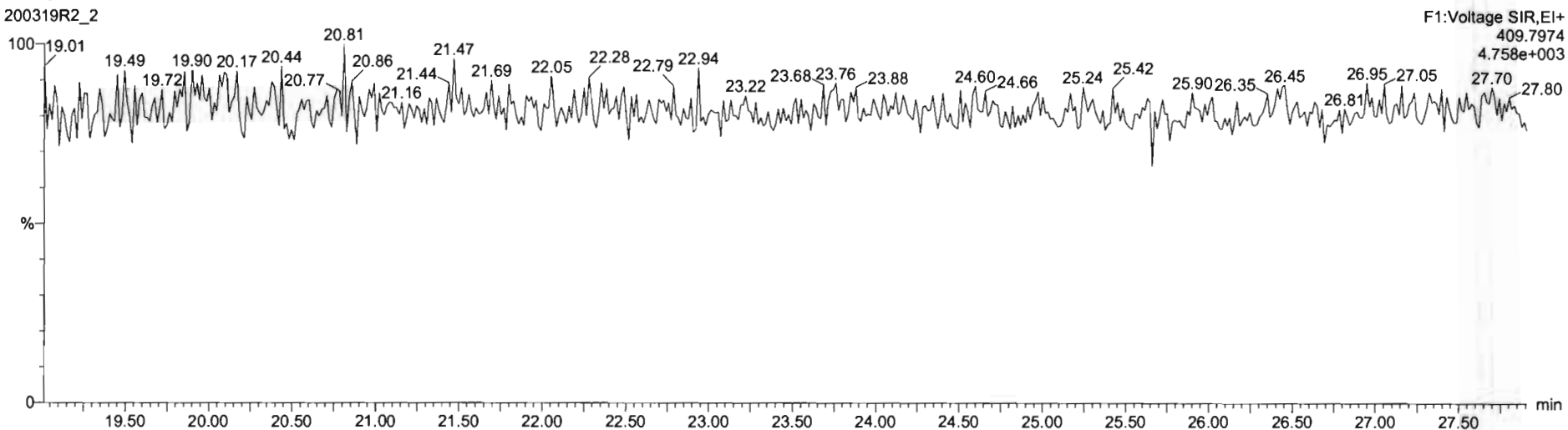


200319R2_2



DPE6

200319R2_2



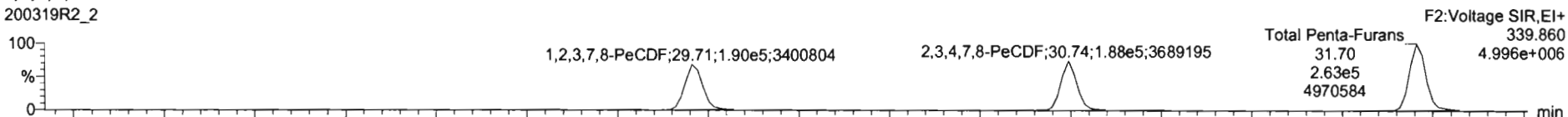
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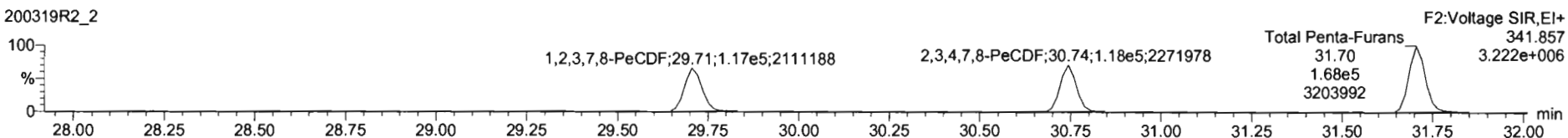
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1,2,3,7,8-PeCDF

200319R2_2

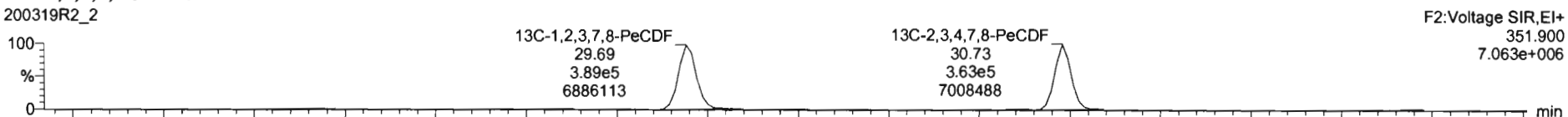


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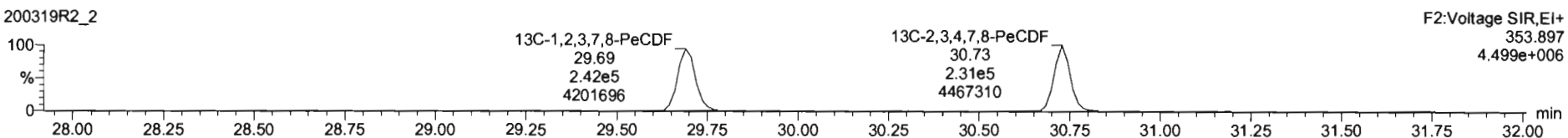


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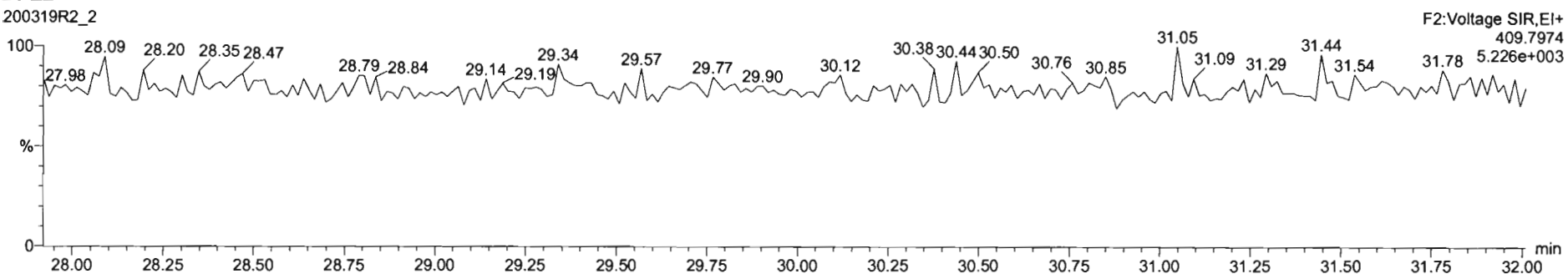


200319R2_2



DPE2

200319R2_2



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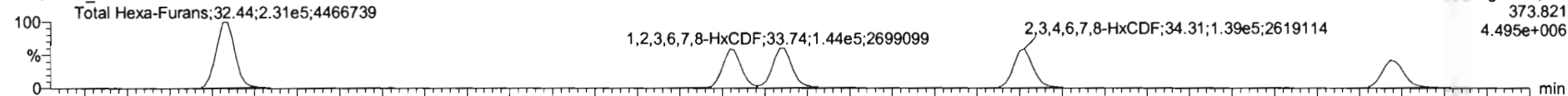
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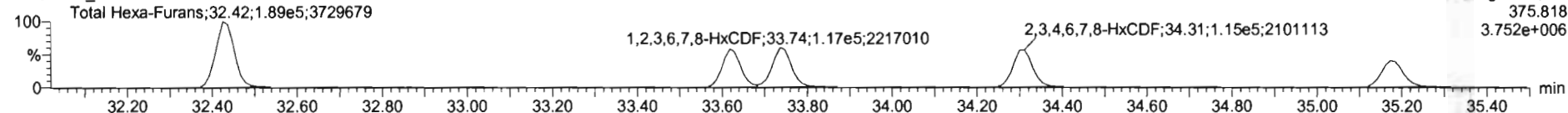
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1,2,3,4,7,8-HxCDF

200319R2_2

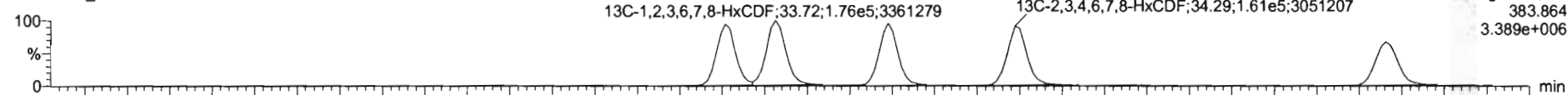


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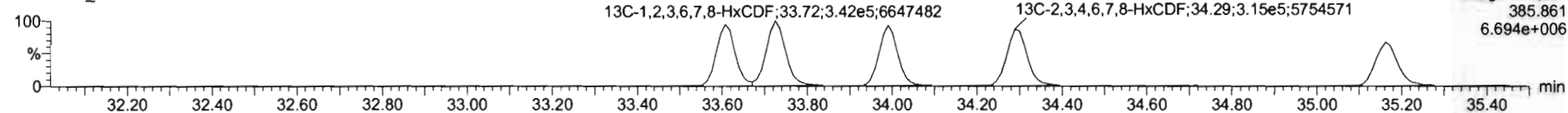


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200319R2_2

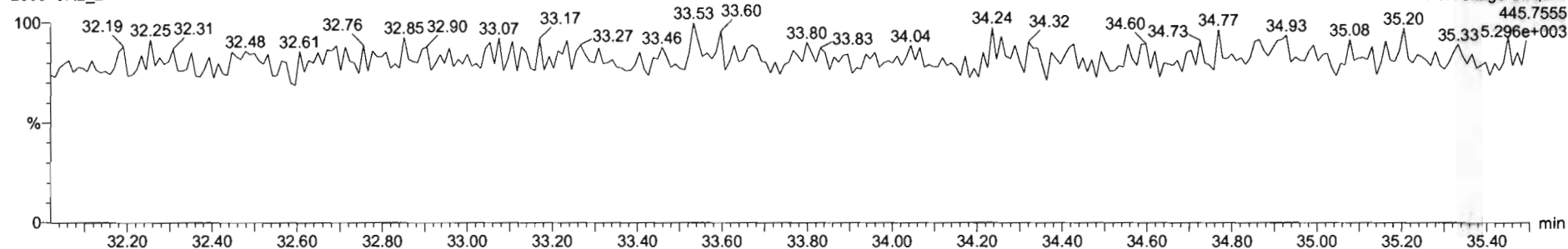


200319R2_2



DPE3

200319R2_2



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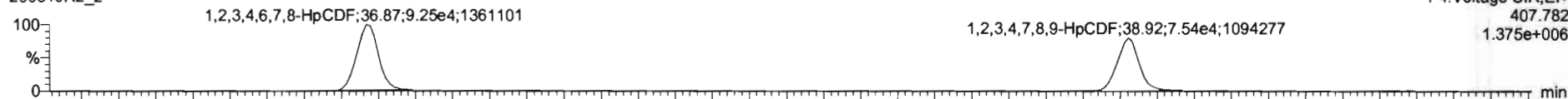
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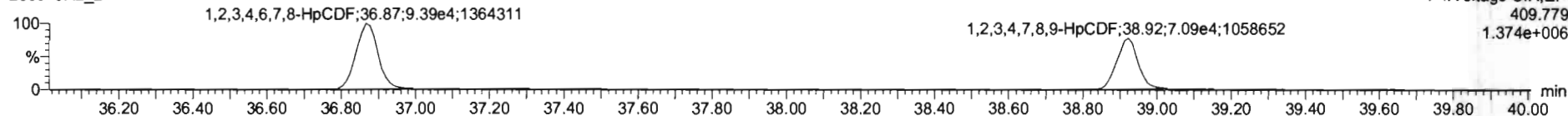
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1,2,3,4,6,7,8-HpCDF

200319R2_2

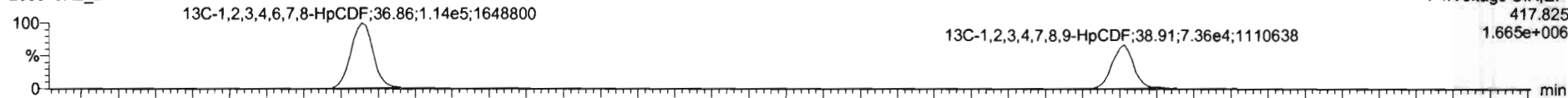


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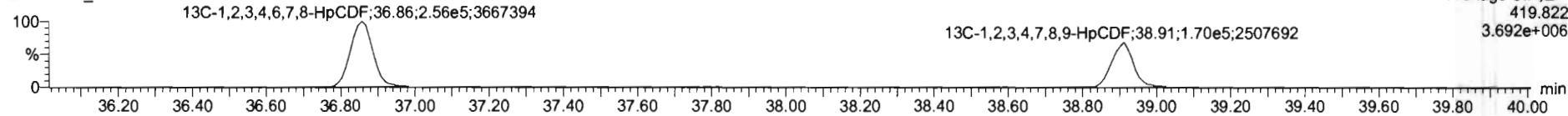


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200319R2_2

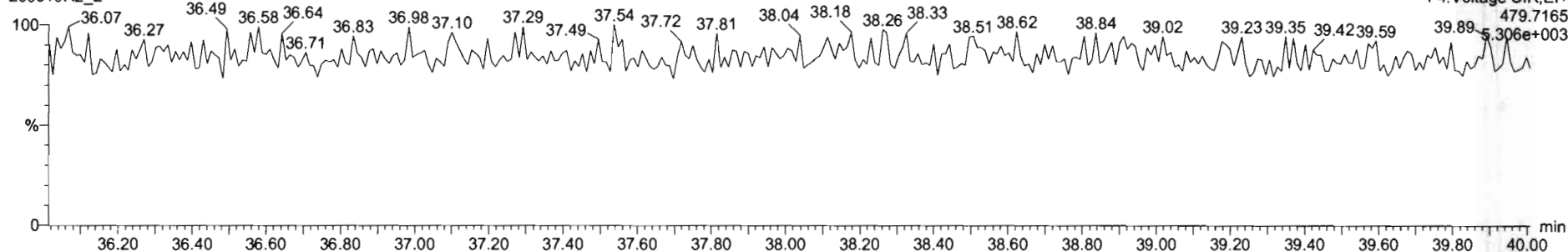


200319R2_2



DPE4

200319R2_2



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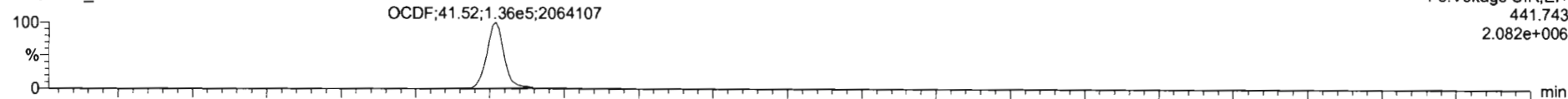
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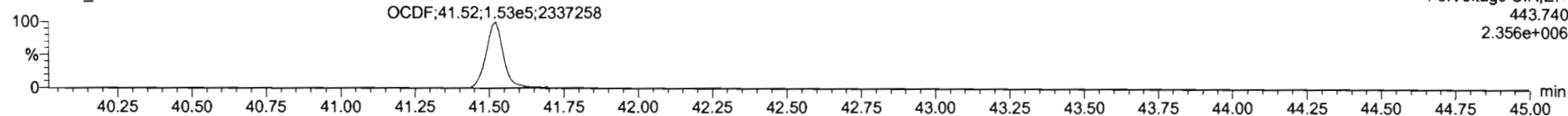
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OCDF

200319R2_2

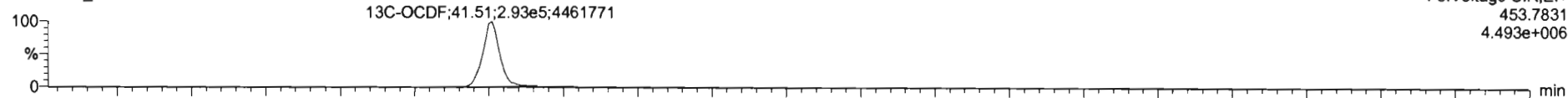


200319R2_2

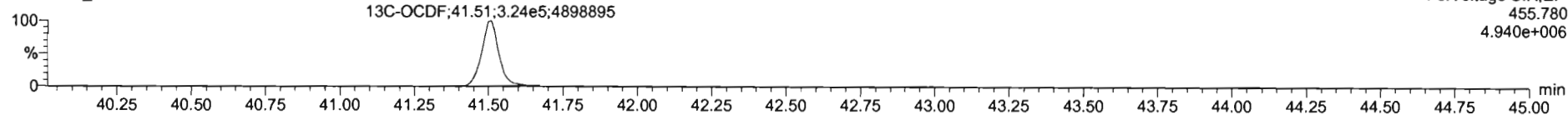


13C-OCDF

200319R2_2

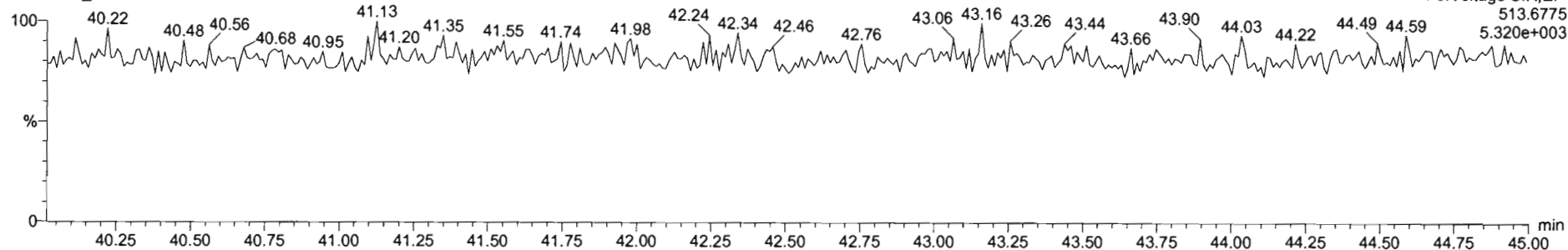


200319R2_2



DPE5

200319R2_2

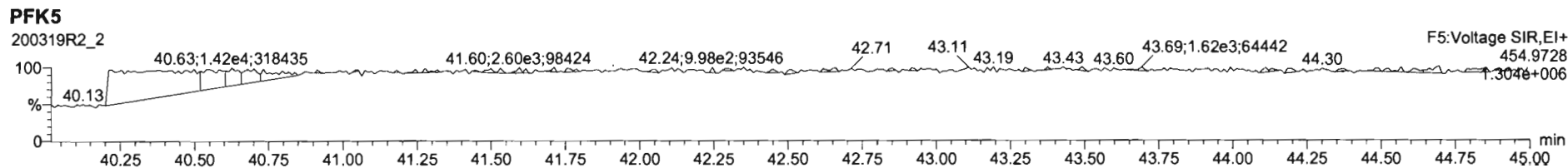
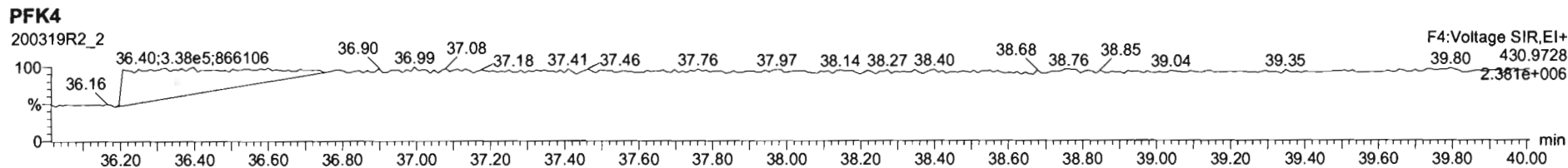
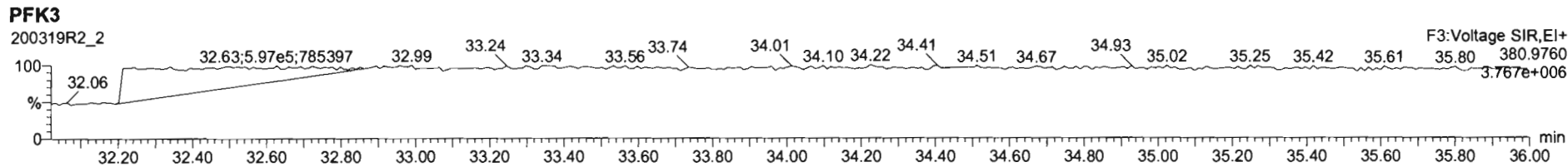
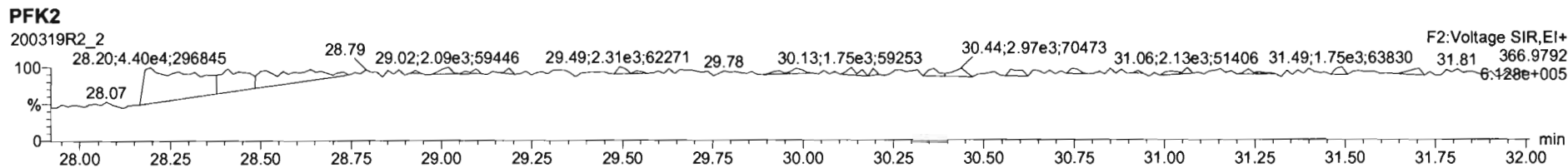
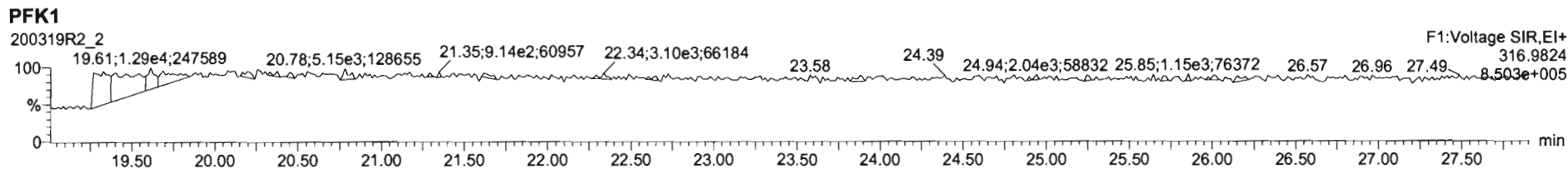


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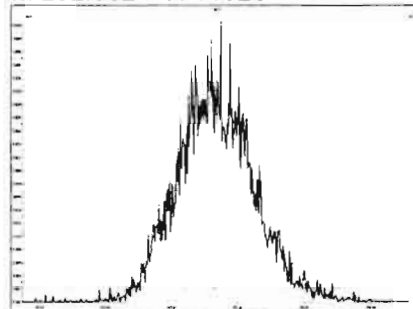
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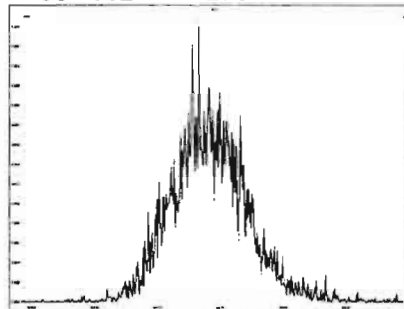


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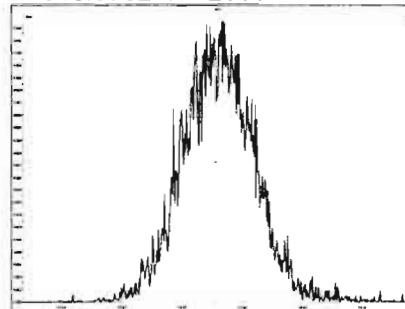
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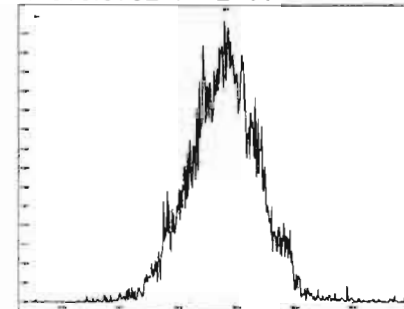
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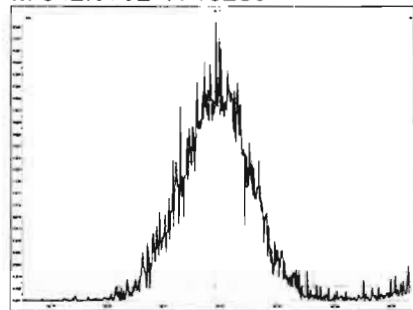
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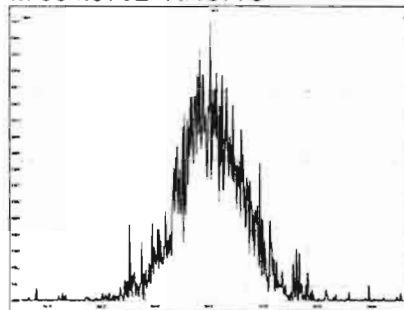
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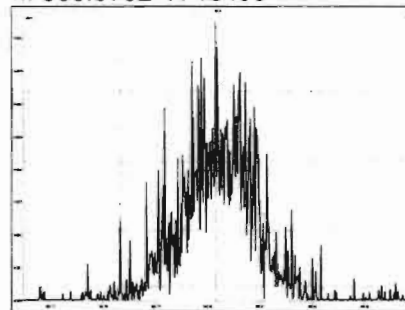
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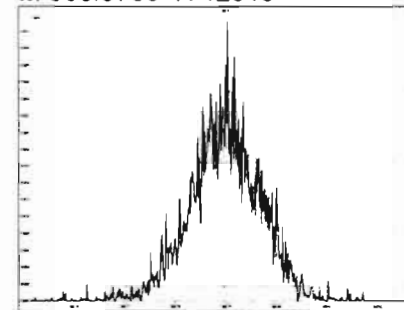
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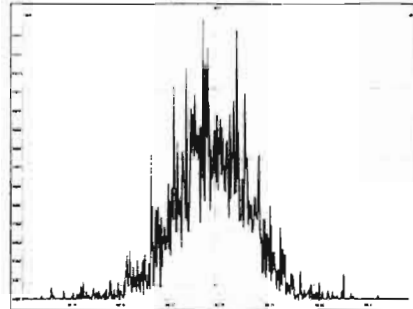
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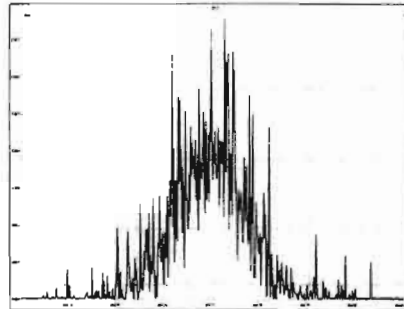
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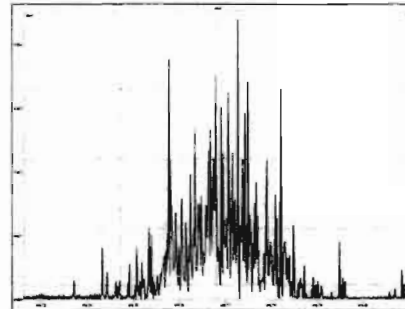
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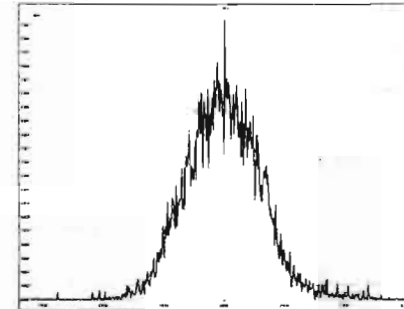
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M 416.9760 R 21241

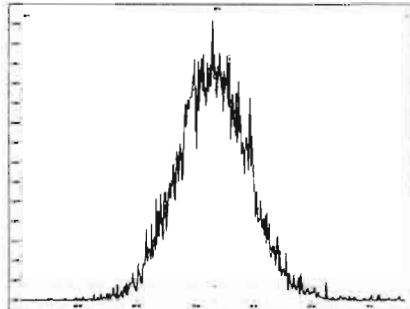


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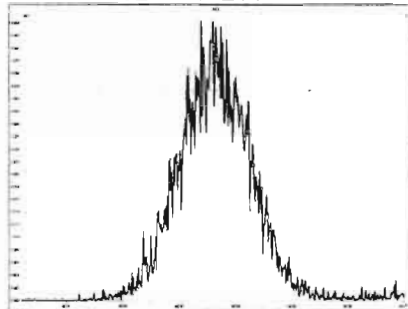


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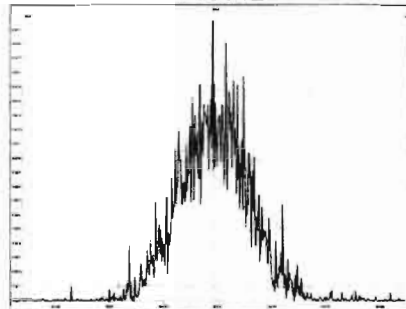
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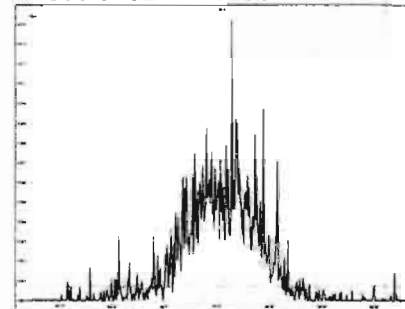
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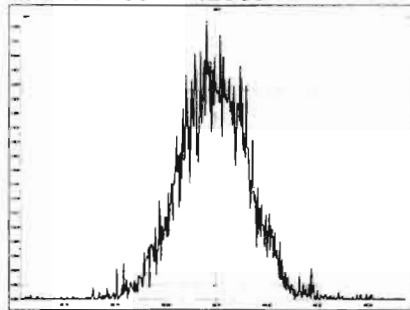
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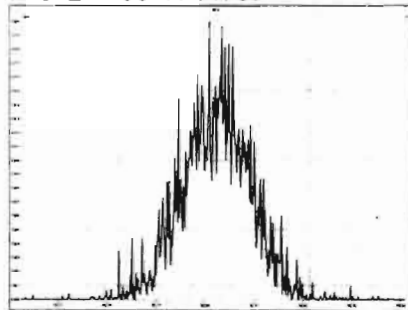
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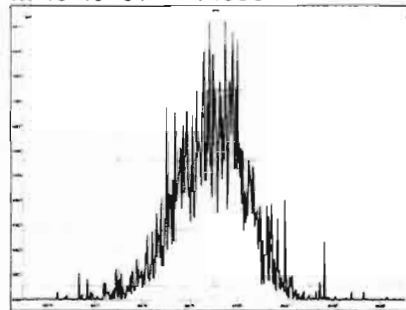
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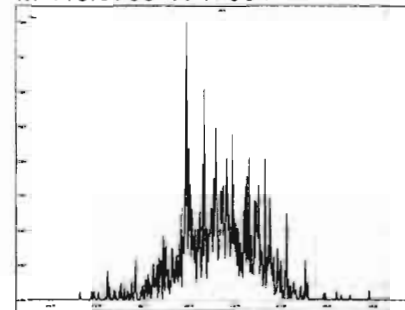
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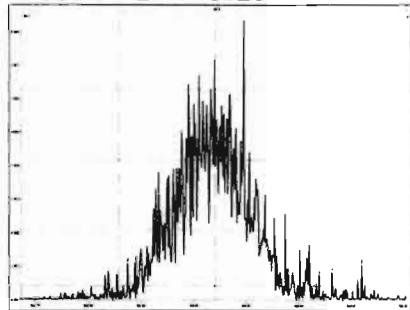
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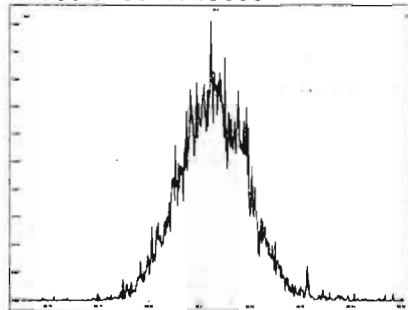
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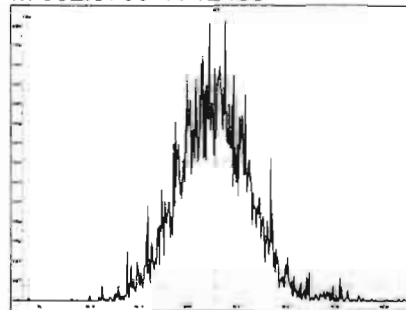
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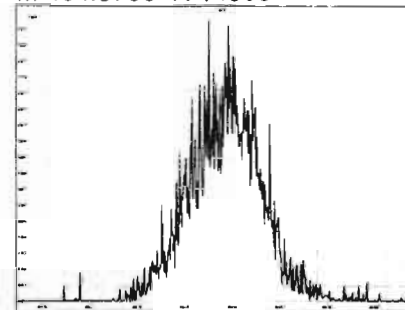
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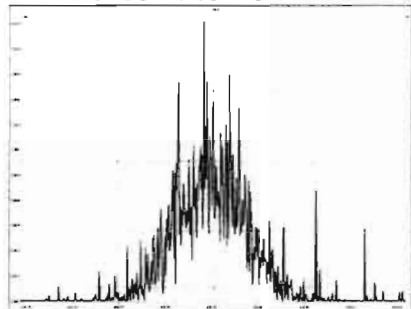


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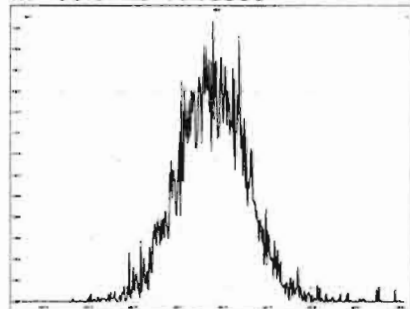


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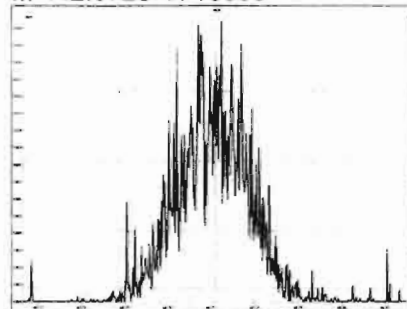
M 416.9760 R 16726



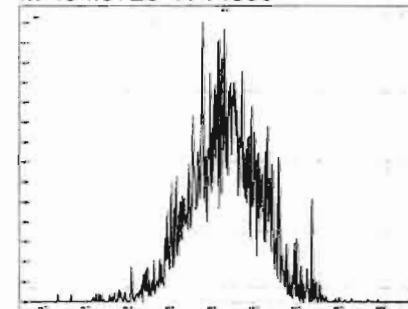
M 430.9728 R 13550



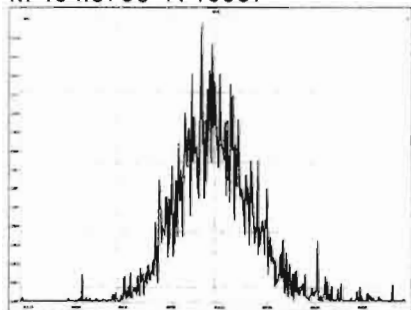
M 442.9728 R 13890



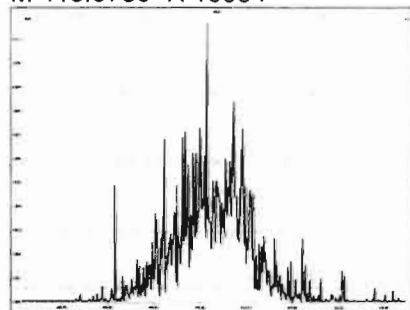
M 454.9728 R 14893



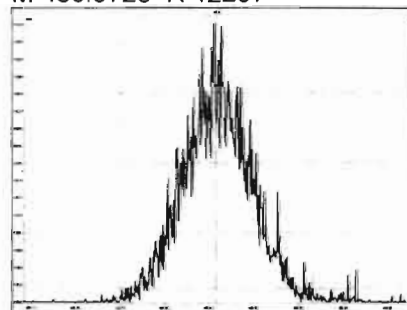
M 404.9760 R 13097



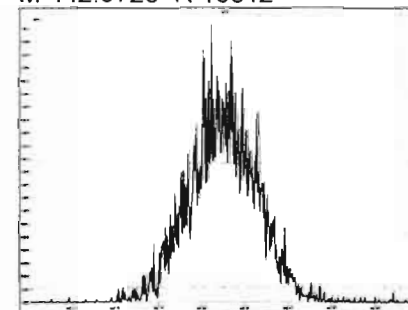
M 416.9760 R 13584



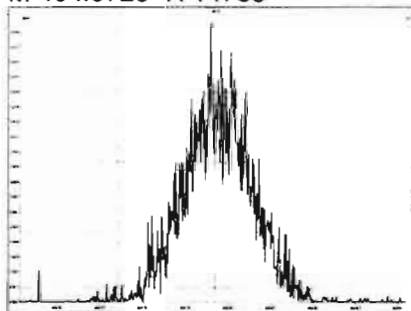
M 430.9728 R 12257



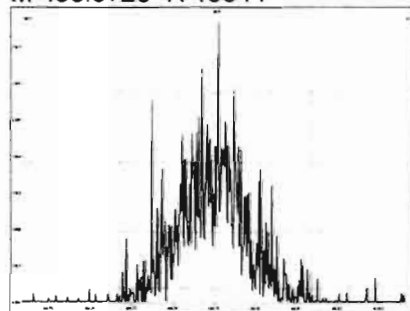
M 442.9728 R 13812



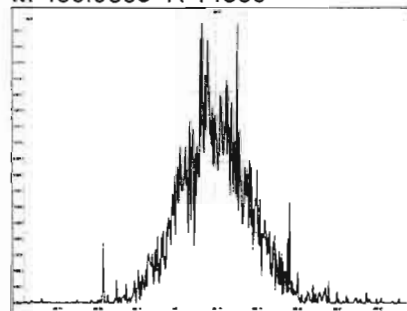
M 454.9728 R 14730



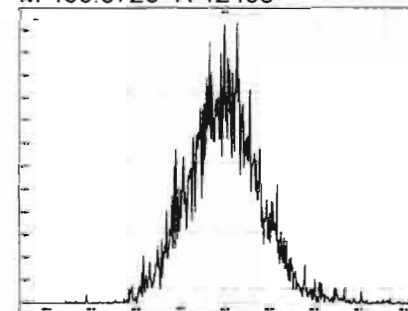
M 466.9728 R 16844



M 480.9696 R 14680

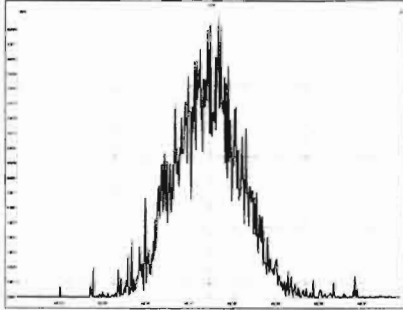


M 430.9728 R 12408

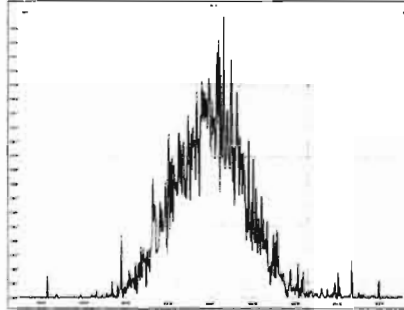


Printed: Friday, March 20, 2020 13:17:32 Pacific Daylight Time

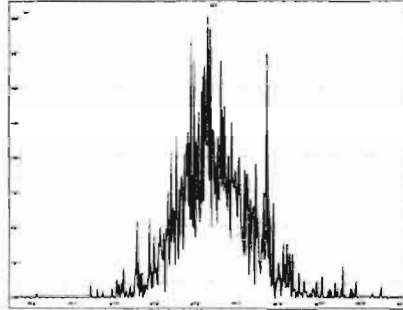
M 442.9728 R 13626



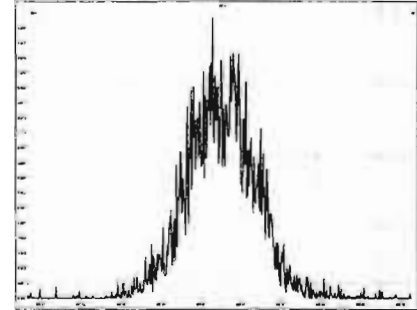
M 454.9728 R 13557



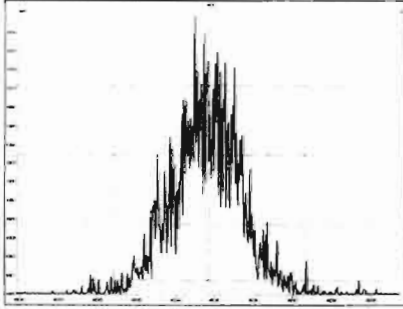
M 466.9728 R 17606



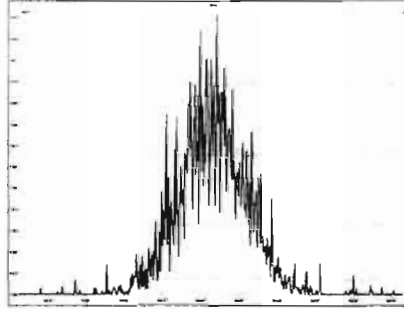
M 480.9696 R 13995



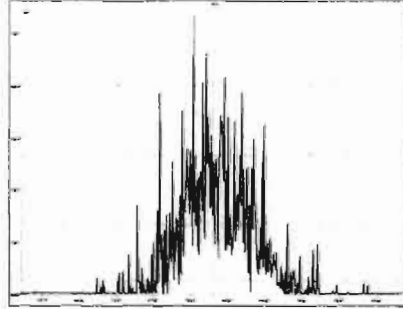
M 492.9696 R 13474



M 504.9696 R 14612



M 516.9697 R 19970



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200324D1-1

Reviewed By: 0703/25/2020
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"/> 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>DB</u>	<hr/>
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> V
- Samples within 12 hour clock?	(Y)	N
- Bottle position verified?	<u>DB</u>	

Mass resolution \geq

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

	<u>Beg.</u>	<u>End</u>
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> NA
GC Break <20%		<input checked="" type="checkbox"/> NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

NA

Comments:

Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time

Printed: Tuesday, March 24, 2020 11:19:07 Pacific Daylight Time

DB 3/24/20

0703/25/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	6.64e3	0.81	NO	0.982	1.000	17.794	17.79	1.000	1.001	8.7672	87.7 84 -120	0.175	8.77
2	2 13C-2,3,7,8-TCDF	7.71e4	0.77	NO	1.08	1.000	17.782	17.77	1.133	1.138	100.47	100 71 -140	0.609	
3	3 13C-1,2,3,4-TCDF	7.09e4	0.80	NO	1.00	1.000	15.660	15.62	1.000	1.000	100.00	100	0.659	

Dataset: Untitled

Last Altered: Wednesday, March 25, 2020 09:26:20 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 09:26:37 Pacific Daylight Time

Method: C:\MassLynx\Default.PROMethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

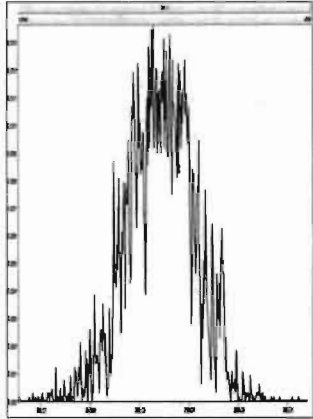
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200324D1_1	CP200324D1-1 DB-225 CPSM	24-Mar-20	10:24:42
2	200324D1_2	ST200324D1-1 1613 CS3 19L2305	24-Mar-20	10:54:51
3	200324D1_3	SOLVENT BLANK	24-Mar-20	11:26:29
4	200324D1_4	2000144-12RE1 PDI-082SC-A-05-06-191002 ...	24-Mar-20	11:58:14
5	200324D1_5	2000143-04RE1 PDI-031SC-A-03-04-191017 ...	24-Mar-20	12:29:54
6	200324D1_6	2000143-19RE1 PDI-049SC-A-02-03-191015 ...	24-Mar-20	13:01:37
7	200324D1_7	2000143-19RE1 PDI-049SC-A-02-03-191015 ...	24-Mar-20	13:33:23
8	200324D1_8	1903654-05RE4 PDI-075SC-B-00-02-191013 ...	24-Mar-20	14:05:06
9	200324D1_9	1903654-08RE4 PDI-075SC-B-06-08-191013 ...	24-Mar-20	14:36:46
10	200324D1_10	1903654-11RE4 PDI-076SC-B-05-07-191013 ...	24-Mar-20	15:08:29
11	200324D1_11	1903827-05RE4 PDI-062SC-B-00-02-191023 ...	24-Mar-20	15:40:10
12	200324D1_12	1904161-16RE6 PDI-066SC-A-06-07-191011 ...	24-Mar-20	16:11:48
13	200324D1_13	2000195-05RE1 PDI-074SC-A-06-07-191012 ...	24-Mar-20	16:43:30
14	200324D1_14	2000195-07RE1 PDI-076SC-A-08-09-191013 ...	24-Mar-20	17:15:12
15	200324D1_15	2000195-08RE1 PDI-076SC-A-09-10-191013 ...	24-Mar-20	17:46:53
16	200324D1_16	2000195-09RE1 PDI-100SC-J-04-05-190926 ...	24-Mar-20	18:18:36

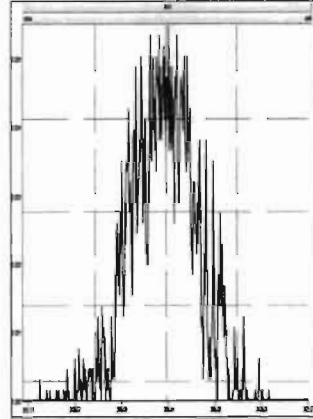
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Tuesday, March 24, 2020 10:23:51 Pacific Daylight Time

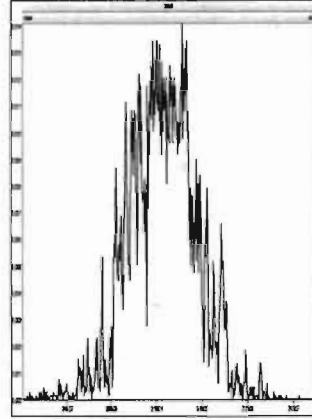
M 292.9824 R 13509



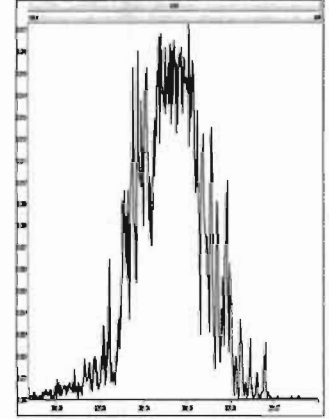
M 304.9824 R 13441



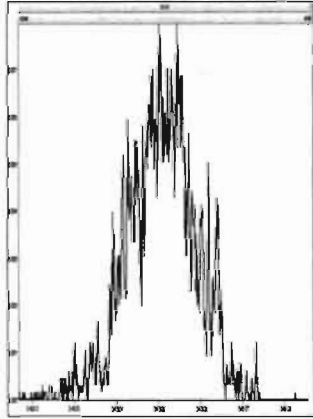
M 318.9792 R 13811



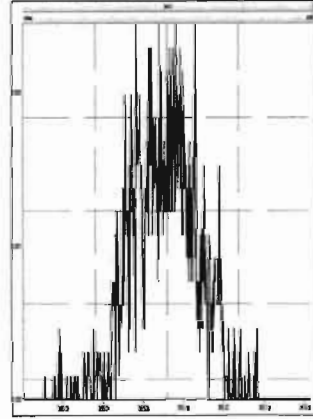
M 330.9792 R 12138



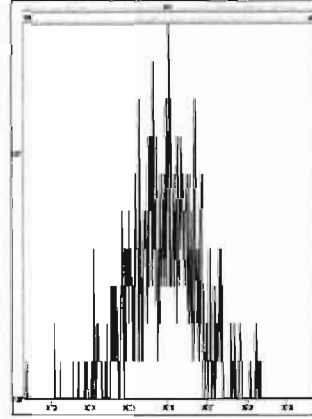
M 342.9792 R 11905



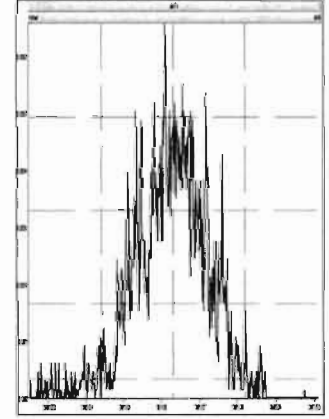
M 354.9792 R 11847

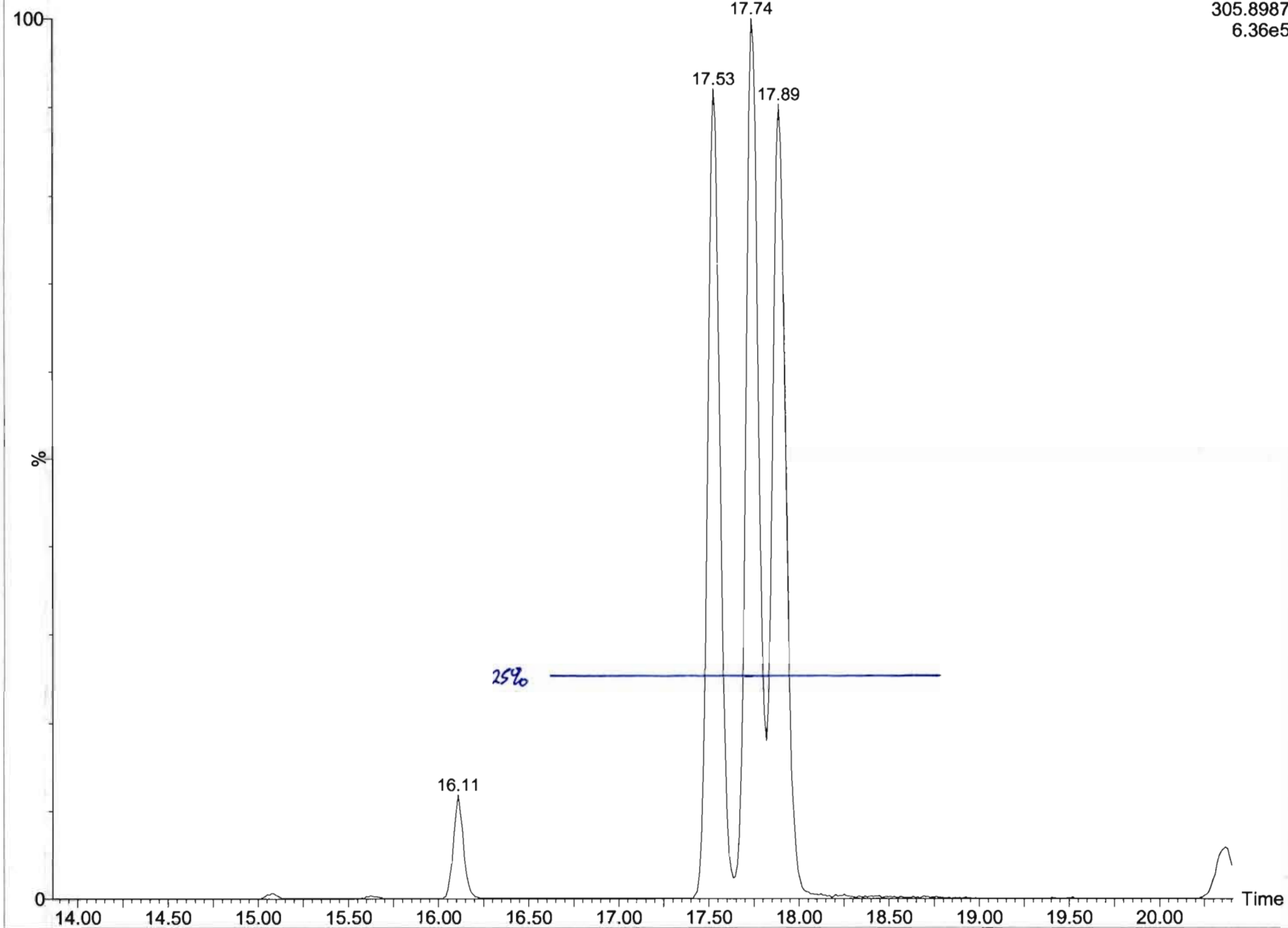


M 366.9792 R 15247



M 380.9760 R 12015





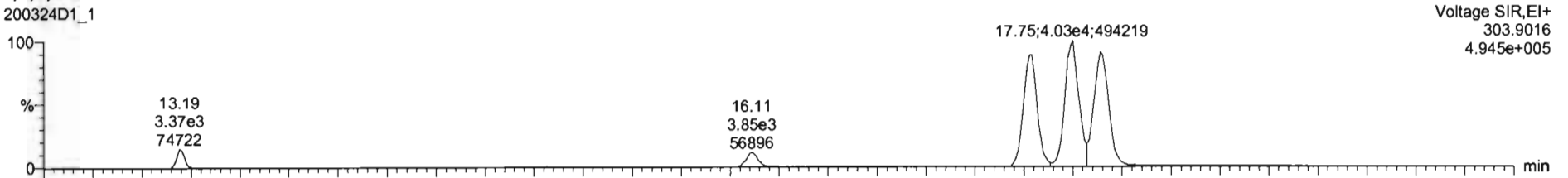
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_1.qld

Last Altered: Tuesday, March 24, 2020 10:58:54 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:02:27 Pacific Daylight Time

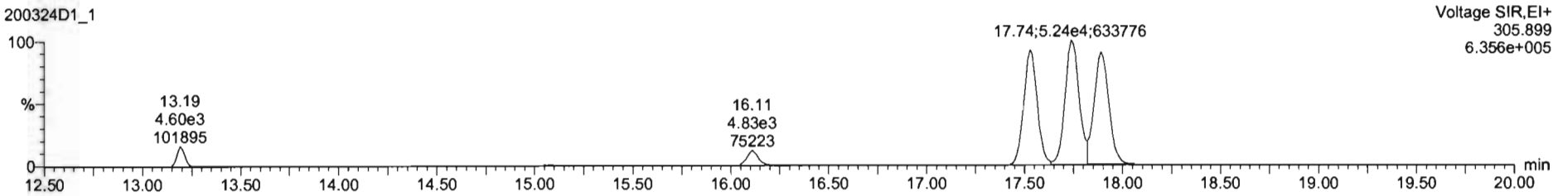
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200324D1_1, Date: 24-Mar-2020, Time: 10:24:42, ID: CP200324D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF
200324D1_1

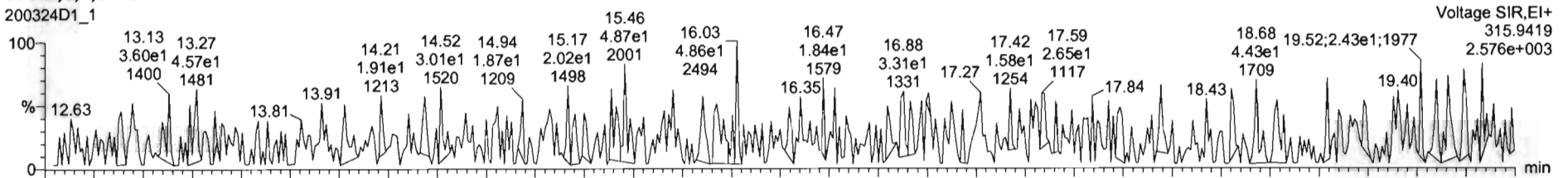


200324D1_1

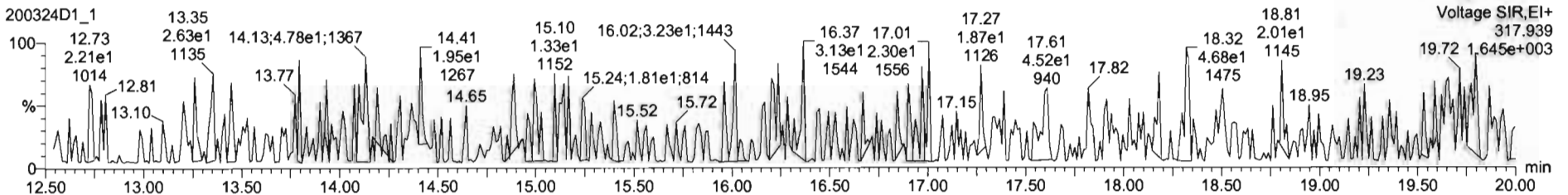


13C-2,3,7,8-TCDF

200324D1_1



200324D1_1



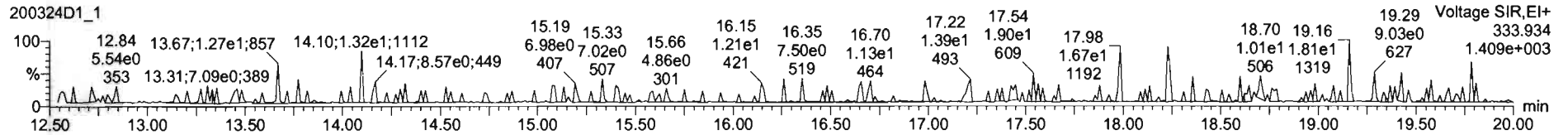
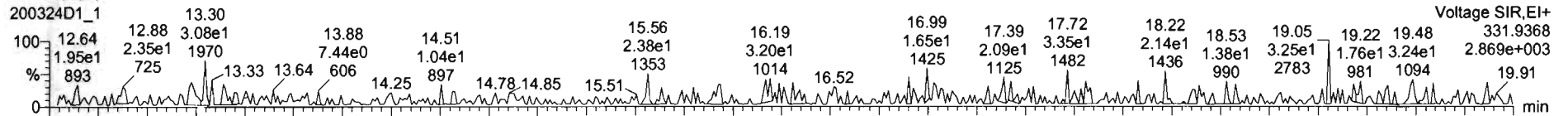
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_1.qld

Last Altered: Tuesday, March 24, 2020 10:58:54 Pacific Daylight Time

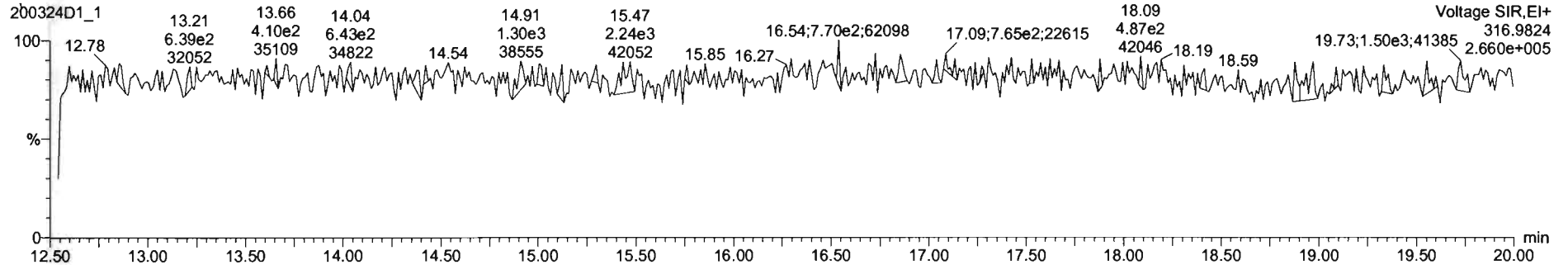
Printed: Tuesday, March 24, 2020 11:02:27 Pacific Daylight Time

Name: 200324D1_1, Date: 24-Mar-2020, Time: 10:24:42, ID: CP200324D1-1 DB-225 CPSM, Description: DB-225 CPSM

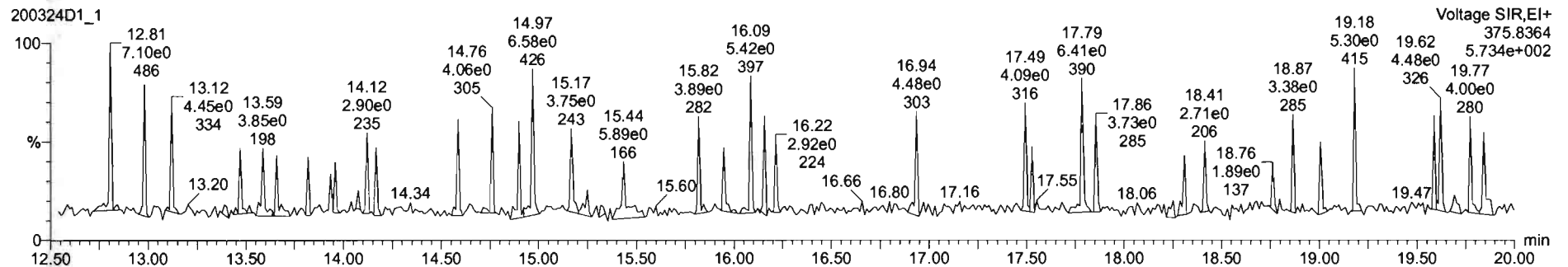
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

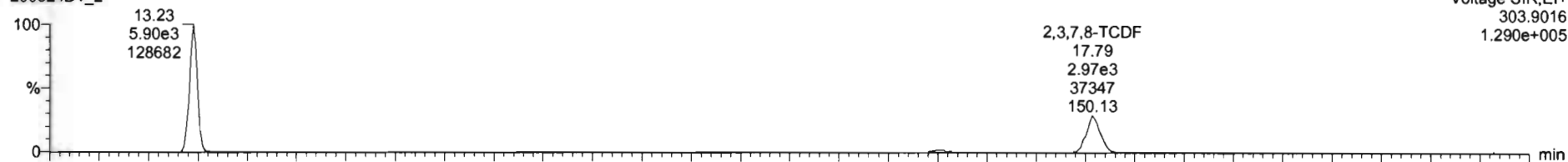
Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:19:26 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

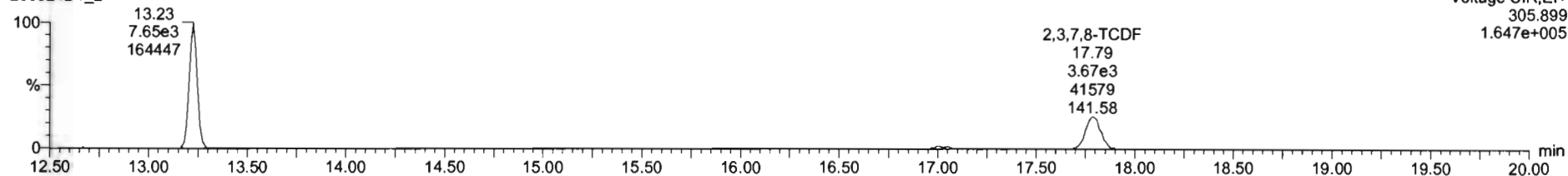
Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

2,3,7,8-TCDF

200324D1_2

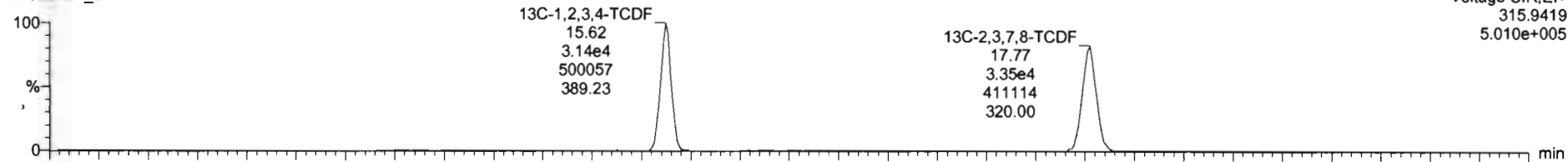


200324D1_2

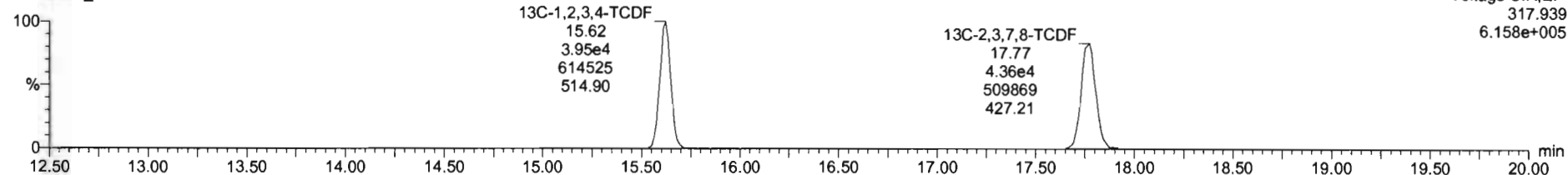


13C-2,3,7,8-TCDF

200324D1_2



200324D1_2



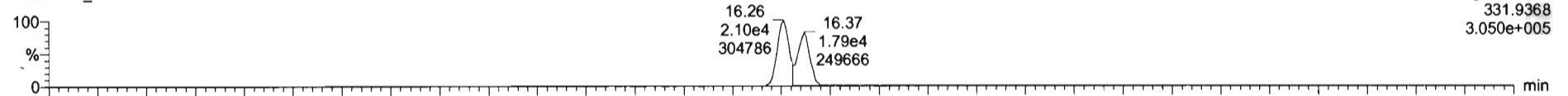
Dataset: U:\VG7.PRO\Results\200324D1\200324D1_2.qld

Last Altered: Tuesday, March 24, 2020 11:18:06 Pacific Daylight Time
Printed: Tuesday, March 24, 2020 11:19:26 Pacific Daylight Time

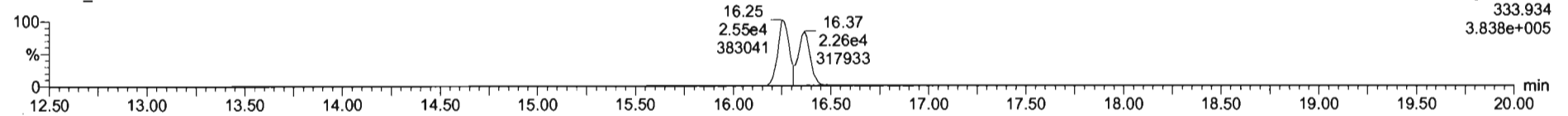
Name: 200324D1_2, Date: 24-Mar-2020, Time: 10:54:51, ID: ST200324D1-1 1613 CS3 19L2305, Description: 1613 CS3 1911604

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

200324D1_2

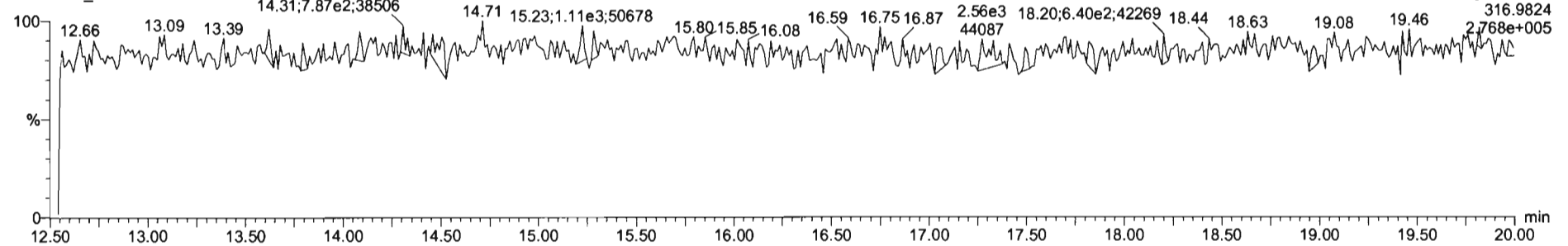


200324D1_2



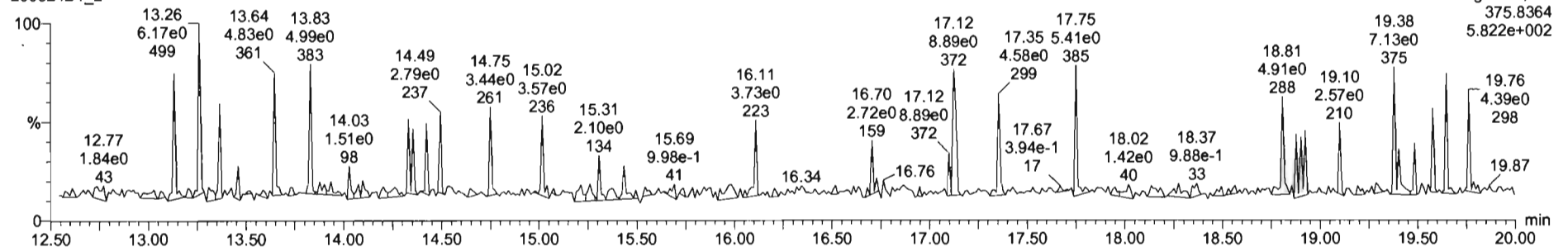
PFK1

200324D1_2



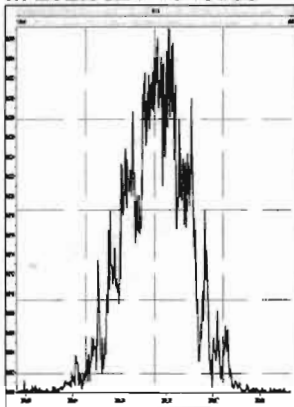
DPE1

200324D1_2

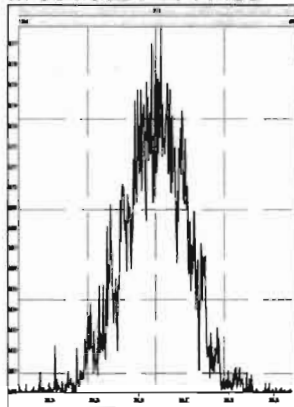


Printed: Tuesday, March 24, 2020 18:52:07 Pacific Daylight Time

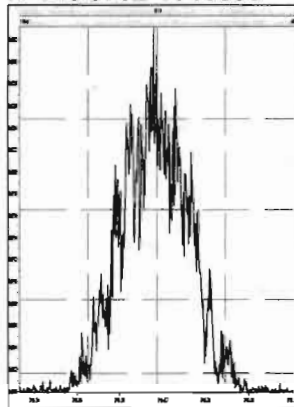
M 292.9824 R 10838



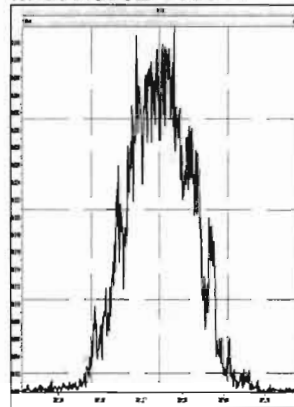
M 304.9824 R 11485



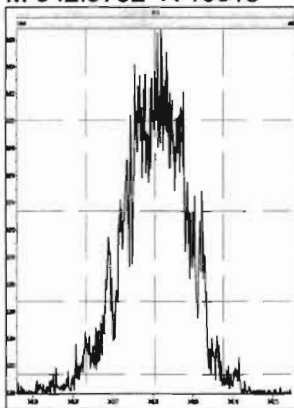
M 318.9792 R 10595



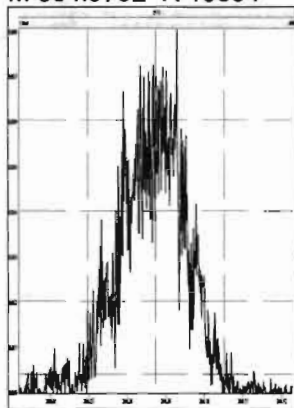
M 330.9792 R 9777



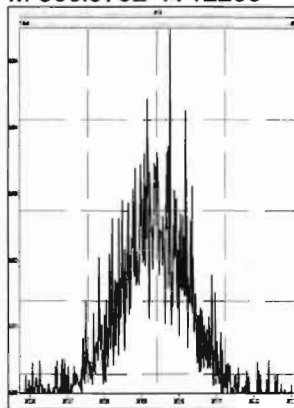
M 342.9792 R 10518



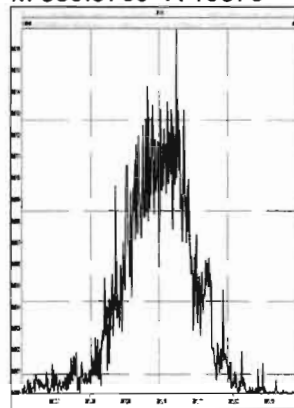
M 354.9792 R 10894



M 366.9792 R 12233



M 380.9760 R 10376



Dataset: U:\VG7.PRO\Results\200325D1\200325D1_2.qld

Last Altered: Wednesday, March 25, 2020 10:41:56 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 10:42:54 Pacific Daylight Time

DB 3/25/20 CT 03/25/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200325D1_2, Date: 25-Mar-2020, Time: 10:13:31, ID: ST200325D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	6.11e3	0.77	NO	0.982	1.000	17.782	17.77	1.000	1.001	8.6890	86.9 <i>84-120</i>	0.163	8.69
2	2 13C-2,3,7,8-TCDF	7.17e4	0.80	NO	1.08	1.000	17.782	17.76	1.133	1.137	100.66	101 <i>71-140</i>	0.586	
3	3 13C-1,2,3,4-TCDF	6.58e4	0.80	NO	1.00	1.000	15.660	15.62	1.000	1.000	100.00	100	0.635	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, March 25, 2020 11:50:59 Pacific Daylight Time

Printed: Wednesday, March 25, 2020 11:51:14 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

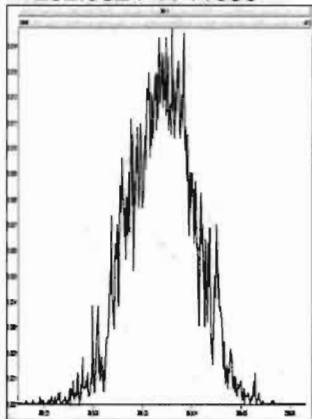
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200325D1_1	CP200325D1-1 DB-225 CPSM	25-Mar-20	09:43:22
2	200325D1_2	ST200325D1-1 1613 CS3 19L2305	25-Mar-20	10:13:31
3	200325D1_3	SOLVENT BLANK	25-Mar-20	10:45:14
4	200325D1_4	2000195-07RE1 PDI-076SC-A-08-09-191013 ...	25-Mar-20	11:16:58

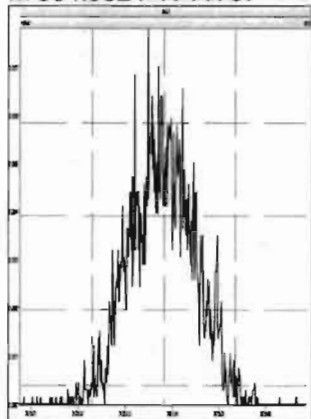
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, March 25, 2020 09:40:43 Pacific Daylight Time

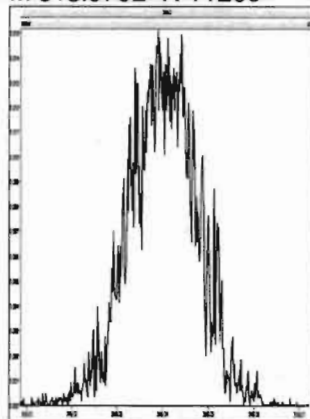
M 292.9824 R 11058



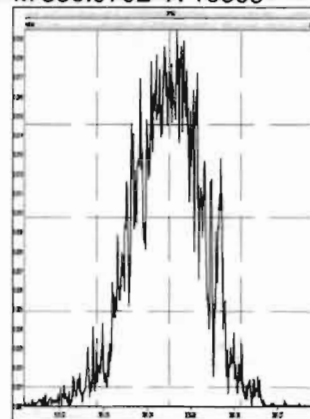
M 304.9824 R 11737



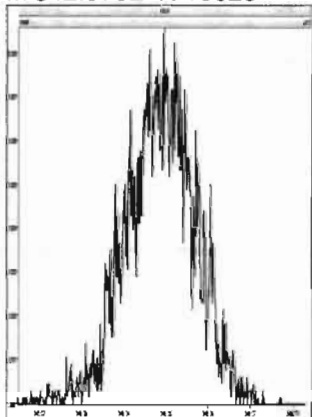
M 318.9792 R 11260



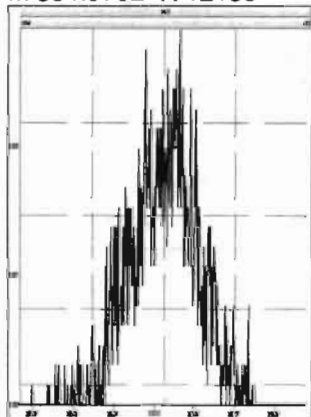
M 330.9792 R 10595



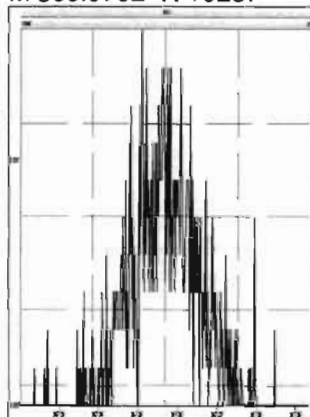
M 342.9792 R 10823



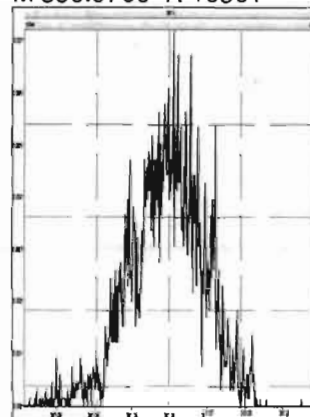
M 354.9792 R 12135

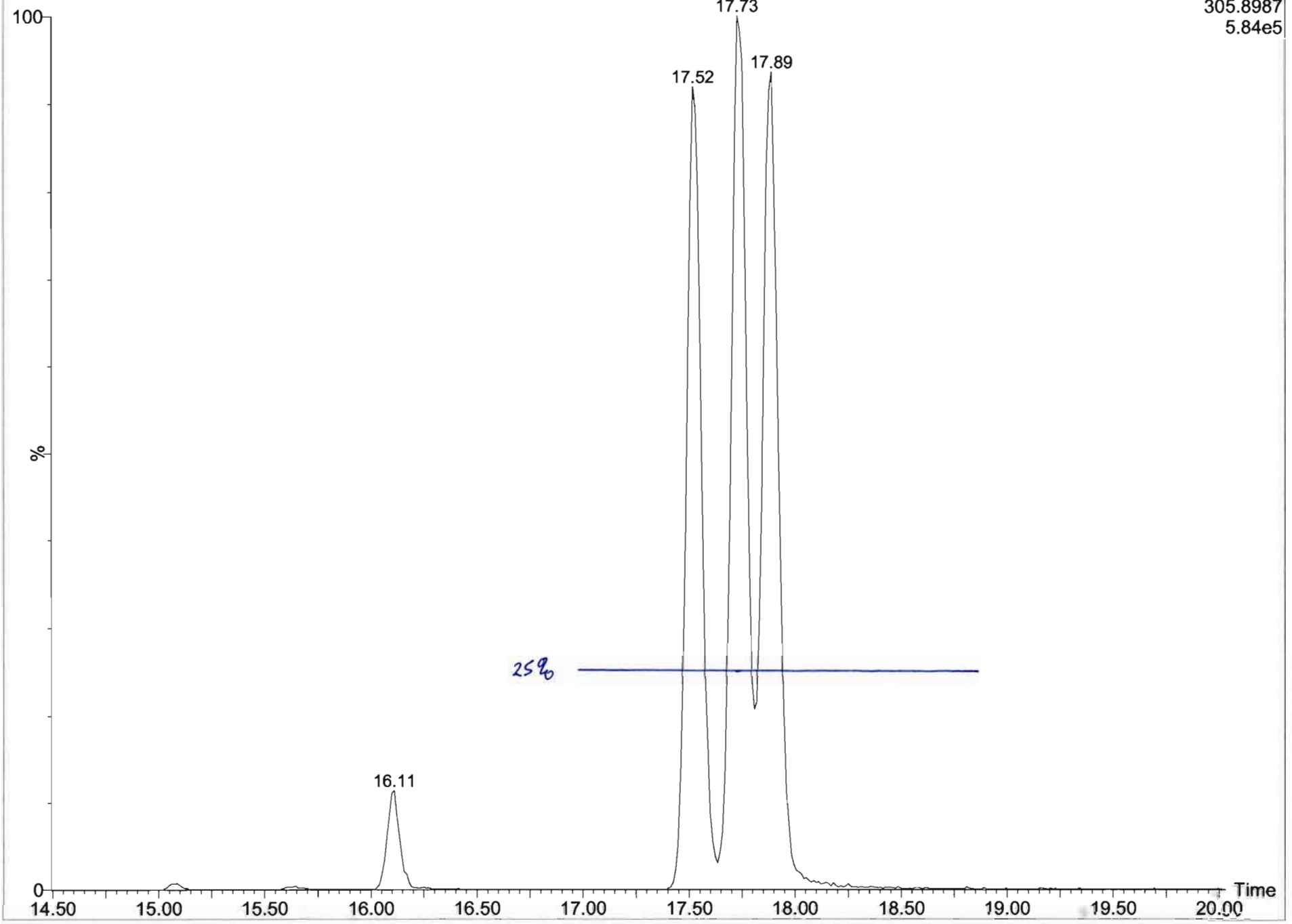


M 366.9792 R 16237



M 380.9760 R 10501





Dataset: U:\VG7.PRO\Results\200325D1\200325D1_1.qld

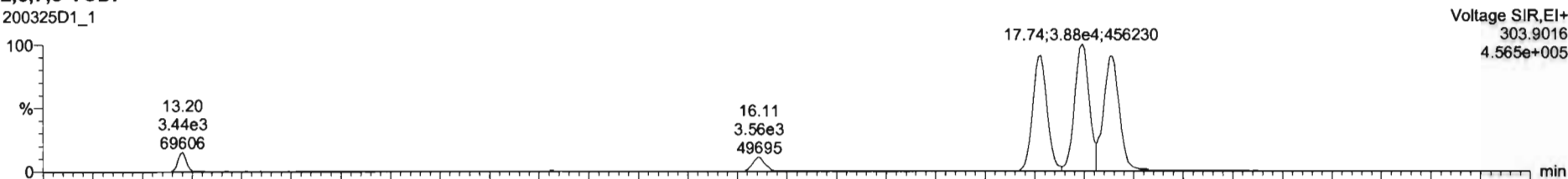
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Printed: Wednesday, March 25, 2020 10:23:34 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

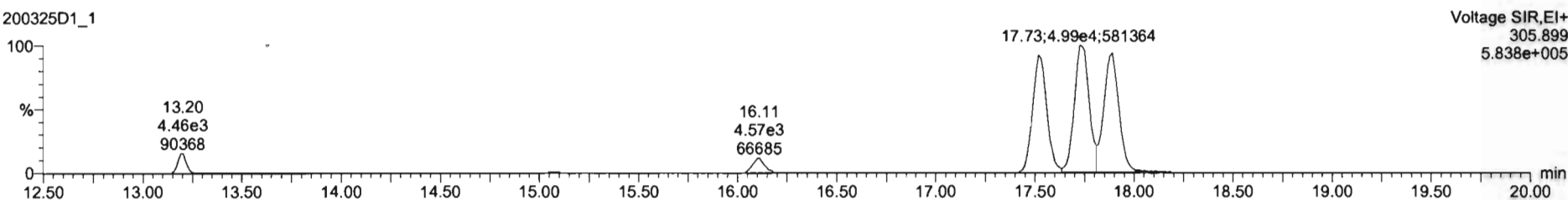
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2,3,7,8-TCDF

200325D1_1

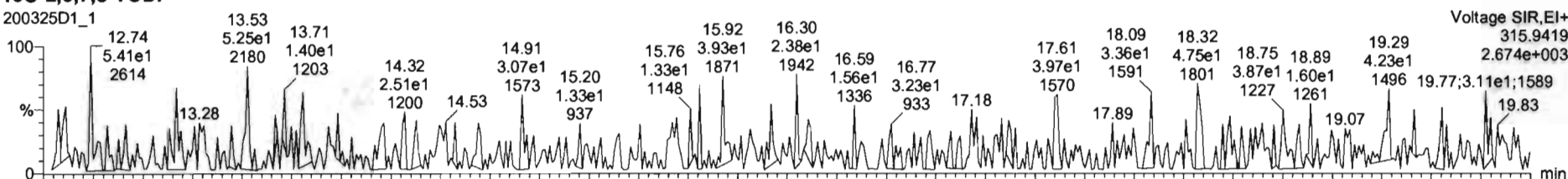


200325D1_1

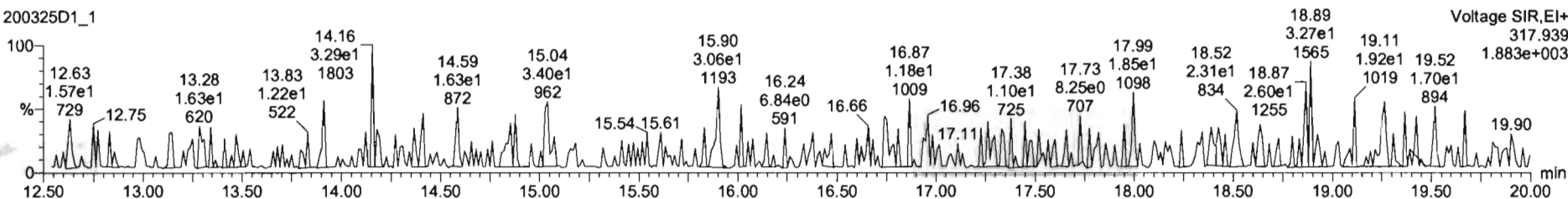


13C-2,3,7,8-TCDF

200325D1_1



200325D1_1

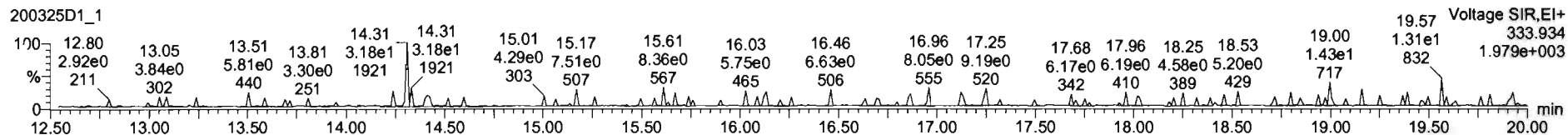
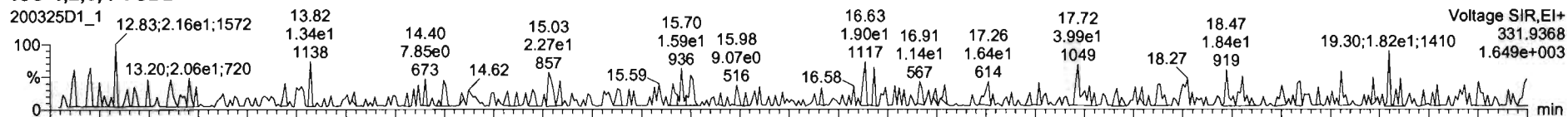


Dataset: U:\VG7.PRO\Results\200325D1\200325D1_1.qld

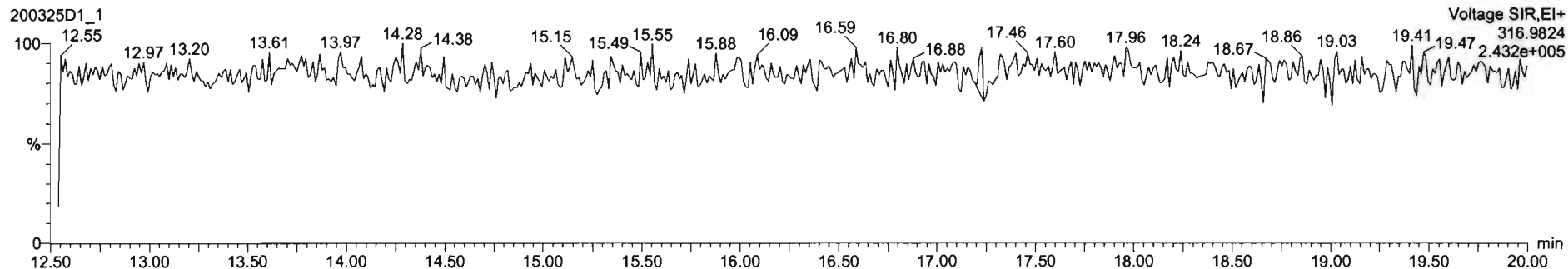
Last Altered: Wednesday, March 25, 2020 10:21:48 Pacific Daylight Time
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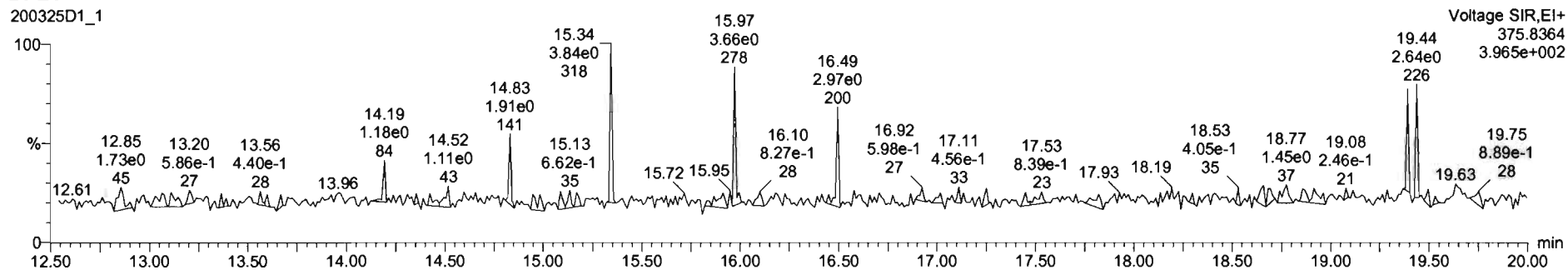
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200325D1\200325D1_2.qld

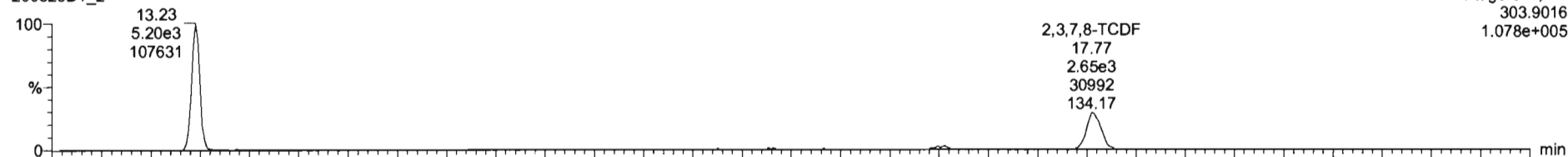
Last Altered: Wednesday, March 25, 2020 10:41:56 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 10:43:15 Pacific Daylight Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200325D1_2, Date: 25-Mar-2020, Time: 10:13:31, ID: ST200325D1-1 1613 CS3 19L2305, Description: 1613 CS3 19I1604

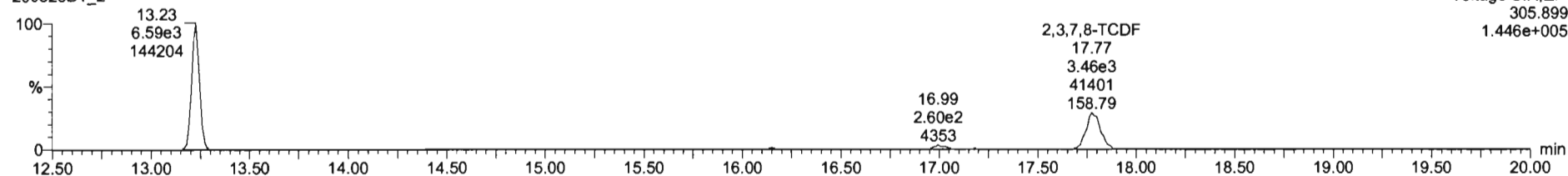
2,3,7,8-TCDF

200325D1_2



Voltage SIR,EI+
303.9016
1.078e+005

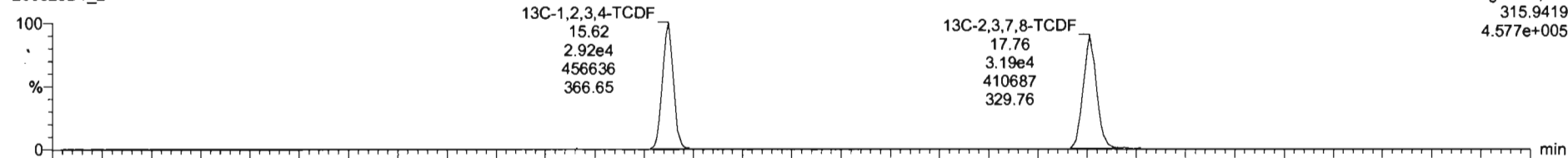
200325D1_2



Voltage SIR,EI+
305.899
1.446e+005

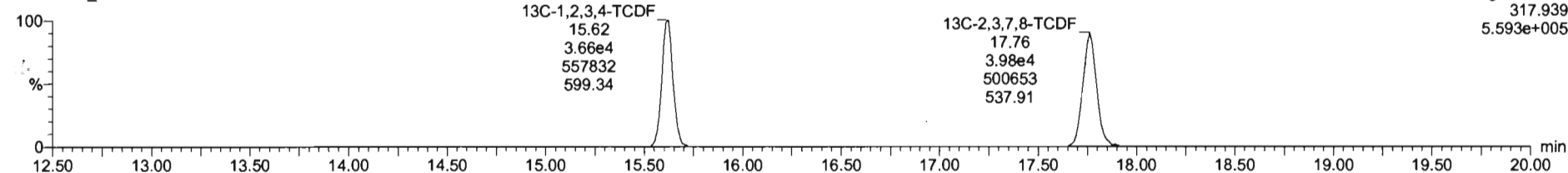
13C-2,3,7,8-TCDF

200325D1_2



Voltage SIR,EI+
315.9419
4.577e+005

200325D1_2



Voltage SIR,EI+
317.939
5.593e+005

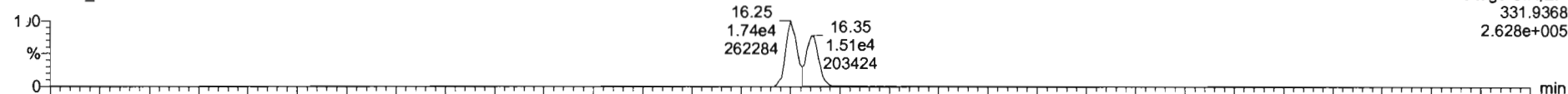
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Last Altered: Wednesday, March 25, 2020 10:41:56 Pacific Daylight Time
Printed: Wednesday, March 25, 2020 10:43:15 Pacific Daylight Time

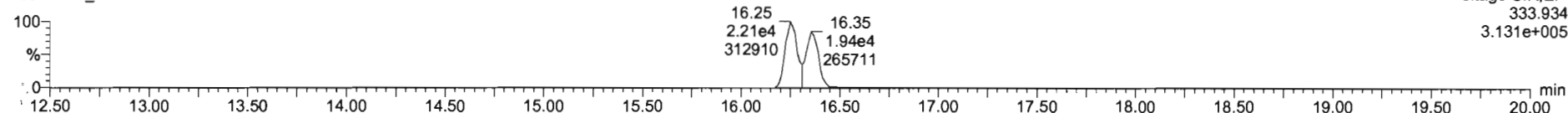
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13C-1,2,3,4-TCDD

200325D1_2

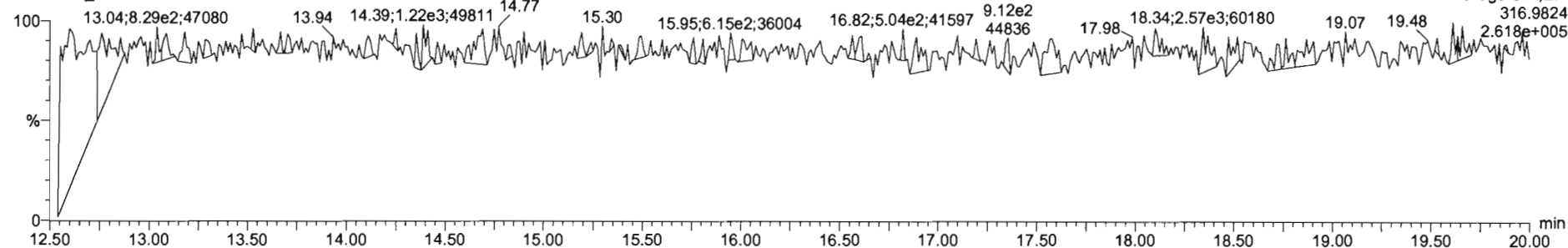


200325D1_2



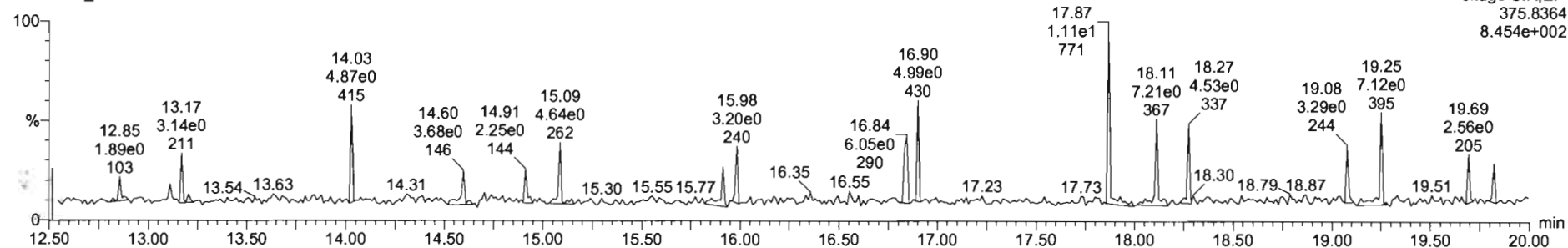
PFK1

200325D1_2

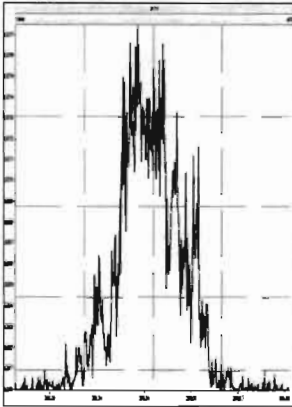


DPE1

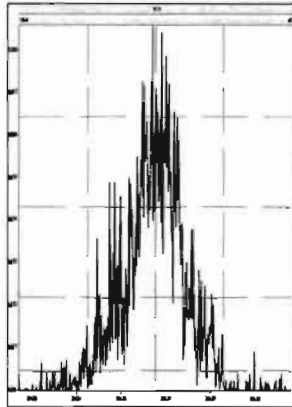
200325D1_2



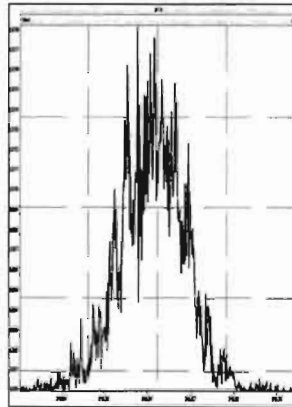
M 292.9824 R 10990



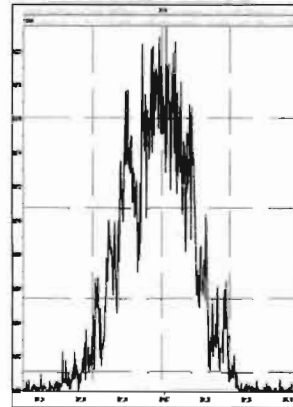
M 304.9824 R 12040



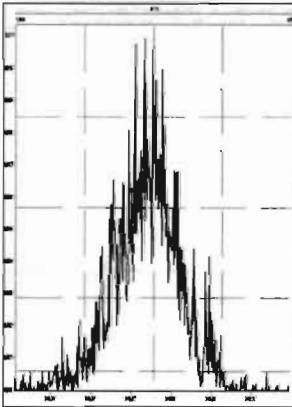
M 318.9792 R 10988



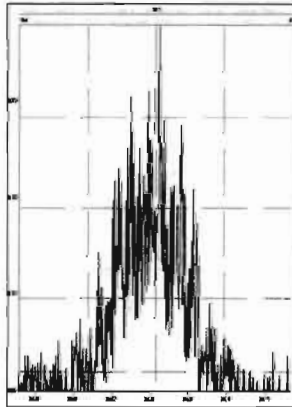
M 330.9792 R 9909



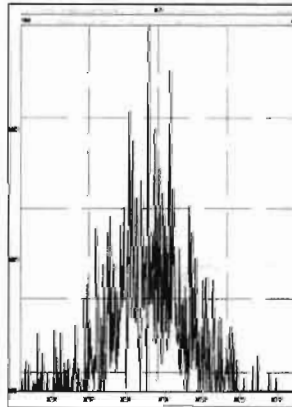
M 342.9792 R 12021



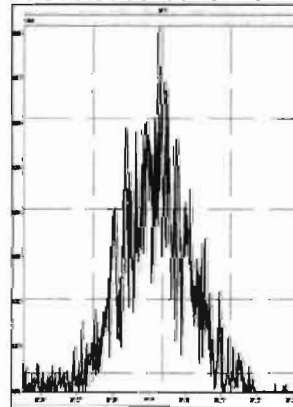
M 354.9792 R 15017



M 366.9792 R 32248



M 380.9760 R 10776



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

GRB 03/09/2020

C1 03/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 11:03:08

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Compound name: 2,3,7,8-TCDD

Response Factor: 0.983462

RRF SD: 0.0620764, Relative SD: 6.31202

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	200306R2_1	0.250	0.88	NO	25.83	1.001	2.55e3	1.02e6	0.255	1.8	1.00	MM
2	200306R2_2	0.500	0.79	NO	25.80	1.001	5.56e3	1.04e6	0.545	9.0	1.07	bb
3	200306R2_3	2.00	0.77	NO	25.81	1.001	2.04e4	9.83e5	2.11	5.3	1.04	bb
4	200306R2_4	10.0	0.80	NO	25.81	1.001	1.07e5	1.15e6	9.48	-5.2	0.933	db
5	200306R2_5	40.0	0.77	NO	25.80	1.001	4.79e5	1.30e6	37.6	-5.9	0.925	bb
6	200306R2_6	300	0.79	NO	25.80	1.001	3.75e6	1.34e6	285	-5.0	0.934	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.921241

RRF SD: 0.0620739, Relative SD: 6.73807

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	200306R2_1	1.25	0.68	NO	31.00	1.000	7.57e3	7.13e5	1.15	-7.8	0.849	MM
2	200306R2_2	2.50	0.65	NO	30.97	1.000	1.74e4	6.98e5	2.70	8.2	0.996	bb
3	200306R2_3	10.0	0.68	NO	30.99	1.000	6.63e4	6.63e5	10.8	8.5	0.999	bb
4	200306R2_4	50.0	0.63	NO	30.99	1.000	3.98e5	9.00e5	48.0	-4.0	0.884	bb
5	200306R2_5	200	0.63	NO	30.99	1.000	1.71e6	9.49e5	195	-2.4	0.899	bb
6	200306R2_6	1500	0.63	NO	30.99	1.000	1.46e7	1.08e6	1460	-2.3	0.900	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.13254

RRF SD: 0.050207, Relative SD: 4.43315

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	200306R2_1	1.25	1.29	NO	34.40	1.001	7.33e3	5.37e5	1.21	-3.6	1.09	bd
2	200306R2_2	2.50	1.25	NO	34.37	1.001	1.58e4	5.23e5	2.66	6.4	1.21	bd
3	200306R2_3	10.0	1.25	NO	34.37	1.000	5.85e4	4.95e5	10.4	4.4	1.18	bd
4	200306R2_4	50.0	1.24	NO	34.38	1.001	3.69e5	6.79e5	48.0	-4.0	1.09	bd
5	200306R2_5	200	1.24	NO	34.37	1.000	1.50e6	6.81e5	194	-3.0	1.10	bd
6	200306R2_6	1500	1.24	NO	34.38	1.000	1.42e7	8.39e5	1500	-0.3	1.13	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.984449

RRF SD: 0.0570908, Relative SD: 5.79927

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	200306R2_1	1.25	1.21	NO	34.49	1.000	7.49e3	6.23e5	1.22	-2.3	0.961	MM
2	200306R2_2	2.50	1.23	NO	34.47	1.000	1.71e4	6.45e5	2.69	7.8	1.06	db
3	200306R2_3	10.0	1.24	NO	34.48	1.000	6.35e4	6.06e5	10.6	6.4	1.05	db
4	200306R2_4	50.0	1.26	NO	34.48	1.000	3.94e5	8.29e5	48.3	-3.4	0.951	db
5	200306R2_5	200	1.25	NO	34.47	1.000	1.68e6	8.67e5	197	-1.6	0.969	db
6	200306R2_6	1500	1.24	NO	34.49	1.001	1.45e7	1.05e6	1400	-6.8	0.917	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.967395

RRF SD: 0.0672904, Relative SD: 6.95583

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	200306R2_1	1.25	1.19	NO	34.76	1.000	6.08e3	5.57e5	1.13	-9.9	0.872	MM
2	200306R2_2	2.50	1.24	NO	34.74	1.001	1.51e4	5.80e5	2.70	7.9	1.04	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

Compound name: 1,2,3,7,8,9-HxCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	10.0	1.23	NO	34.74	1.000	5.71e4	5.46e5	10.8	8.1	1.05	bb
4	200306R2_4	50.0	1.23	NO	34.74	1.000	3.51e5	7.47e5	48.6	-2.9	0.940	bb
5	200306R2_5	200	1.25	NO	34.74	1.000	1.47e6	7.83e5	194	-2.8	0.940	bb
6	200306R2_6	1500	1.23	NO	34.75	1.000	1.34e7	9.31e5	1490	-0.5	0.963	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 1.00606

RRF SD: 0.0598777, Relative SD: 5.95172

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	200306R2_1	1.25	1.04	NO	38.23	1.000	4.50e3	3.74e5	1.19	-4.5	0.960	MM
2	200306R2_2	2.50	1.03	NO	38.17	1.000	1.17e4	4.34e5	2.69	7.6	1.08	bb
3	200306R2_3	10.0	1.02	NO	38.18	1.000	4.15e4	3.84e5	10.7	7.4	1.08	bb
4	200306R2_4	50.0	1.03	NO	38.21	1.000	2.63e5	5.52e5	47.4	-5.1	0.954	bb
5	200306R2_5	200	1.04	NO	38.21	1.001	1.14e6	5.89e5	192	-3.9	0.967	bb
6	200306R2_6	1500	1.03	NO	38.22	1.001	9.92e6	6.67e5	1480	-1.4	0.992	bb

Compound name: OCDD

Response Factor: 1.05145

RRF SD: 0.114587, Relative SD: 10.898

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	200306R2_1	2.50	0.84	NO	41.25	1.000	1.06e4	7.05e5	2.86	14.2	1.20	MM
2	200306R2_2	5.00	0.98	NO	41.22	1.000	2.24e4	7.62e5	5.60	12.0	1.18	MM
3	200306R2_3	20.0	0.87	NO	41.23	1.000	7.58e4	7.16e5	20.1	0.7	1.06	bb
4	200306R2_4	100	0.90	NO	41.23	1.000	4.62e5	9.75e5	90.2	-9.8	0.948	bb
5	200306R2_5	400	0.89	NO	41.22	1.000	2.22e6	1.17e6	360	-10.0	0.946	bb
6	200306R2_6	3000	0.89	NO	41.24	1.000	2.08e7	1.42e6	2790	-7.1	0.977	MM

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
 Printed: Monday, March 09, 2020 08:33:03 Pacific Daylight Time

Compound name: 2,3,7,8-TCDF

Response Factor: 0.915401

RRF SD: 0.0583768, Relative SD: 6.37719

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	200306R2_1	0.250	0.84	NO	24.87	1.001	3.09e3	1.43e6	0.235	-5.9	0.861	MM
2	200306R2_2	0.500	0.78	NO	24.82	1.001	7.23e3	1.45e6	0.546	9.2	1.00	bb
3	200306R2_3	2.00	0.78	NO	24.82	1.001	2.69e4	1.38e6	2.14	6.8	0.978	bb
4	200306R2_4	10.0	0.77	NO	24.84	1.001	1.28e5	1.46e6	9.56	-4.4	0.875	bb
5	200306R2_5	40.0	0.77	NO	24.82	1.001	6.19e5	1.74e6	38.8	-3.1	0.887	bb
6	200306R2_6	300	0.77	NO	24.82	1.001	4.83e6	1.81e6	292	-2.7	0.891	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.959427

RRF SD: 0.0433152, Relative SD: 4.51469

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	200306R2_1	1.25	1.49	NO	29.68	1.000	1.28e4	1.13e6	1.18	-5.5	0.906	MM
2	200306R2_2	2.50	1.64	NO	29.63	1.000	2.70e4	1.07e6	2.63	5.3	1.01	bb
3	200306R2_3	10.0	1.54	NO	29.65	1.000	1.01e5	9.93e5	10.6	5.7	1.01	MM
4	200306R2_4	50.0	1.55	NO	29.66	1.001	6.19e5	1.30e6	49.4	-1.1	0.948	bb
5	200306R2_5	200	1.56	NO	29.65	1.000	2.60e6	1.38e6	196	-1.9	0.941	bb
6	200306R2_6	1500	1.53	NO	29.66	1.000	2.21e7	1.58e6	1460	-2.4	0.936	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 1.00349

RRF SD: 0.0546018, Relative SD: 5.44122

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	200306R2_1	1.25	1.61	NO	30.70	1.000	1.23e4	1.05e6	1.17	-6.4	0.940	MM
2	200306R2_2	2.50	1.54	NO	30.65	1.000	2.75e4	1.02e6	2.70	8.1	1.08	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	200306R2_3	10.0	1.56	NO	30.67	1.000	1.02e5	9.68e5	10.5	5.1	1.05	bb
4	200306R2_4	50.0	1.58	NO	30.67	1.000	6.26e5	1.27e6	49.3	-1.4	0.990	bb
5	200306R2_5	200	1.54	NO	30.67	1.000	2.65e6	1.36e6	195	-2.6	0.978	bb
6	200306R2_6	1500	1.53	NO	30.68	1.000	2.24e7	1.53e6	1460	-2.8	0.975	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 1.03807
 RRF SD: 0.0538106, Relative SD: 5.18374
 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	200306R2_1	1.25	1.12	NO	33.54	1.001	8.84e3	7.10e5	1.20	-4.0	0.996	bd
2	200306R2_2	2.50	1.19	NO	33.51	1.000	1.92e4	6.91e5	2.68	7.2	1.11	bd
3	200306R2_3	10.0	1.26	NO	33.52	1.000	7.18e4	6.52e5	10.6	6.1	1.10	bd
4	200306R2_4	50.0	1.23	NO	33.52	1.000	4.56e5	8.98e5	48.9	-2.2	1.02	dd
5	200306R2_5	200	1.22	NO	33.52	1.001	1.87e6	9.40e5	192	-4.1	0.996	bd
6	200306R2_6	1500	1.22	NO	33.53	1.001	1.65e7	1.09e6	1460	-2.9	1.01	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 1.0126
 RRF SD: 0.0619783, Relative SD: 6.12071
 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	200306R2_1	1.25	1.20	NO	33.66	1.000	9.19e3	7.80e5	1.16	-6.9	0.943	db
2	200306R2_2	2.50	1.27	NO	33.63	1.000	2.08e4	7.71e5	2.66	6.4	1.08	db
3	200306R2_3	10.0	1.18	NO	33.64	1.000	7.95e4	7.22e5	10.9	8.7	1.10	db
4	200306R2_4	50.0	1.22	NO	33.64	1.000	4.93e5	1.01e6	48.1	-3.7	0.975	db
5	200306R2_5	200	1.22	NO	33.64	1.001	2.10e6	1.05e6	196	-1.8	0.994	db
6	200306R2_6	1500	1.22	NO	33.65	1.000	1.83e7	1.24e6	1460	-2.7	0.986	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 1.092

RRF SD: 0.0522909, Relative SD: 4.78856

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	200306R2_1	1.25	1.20	NO	34.23	1.001	9.49e3	7.13e5	1.22	-2.5	1.07	bb
2	200306R2_2	2.50	1.18	NO	34.19	1.000	2.08e4	7.13e5	2.68	7.1	1.17	bb
3	200306R2_3	10.0	1.21	NO	34.21	1.001	7.81e4	6.81e5	10.5	5.1	1.15	bb
4	200306R2_4	50.0	1.21	NO	34.21	1.001	4.95e5	9.38e5	48.3	-3.4	1.05	bb
5	200306R2_5	200	1.22	NO	34.20	1.000	2.06e6	9.84e5	192	-3.9	1.05	bb
6	200306R2_6	1500	1.22	NO	34.21	1.000	1.82e7	1.14e6	1460	-2.4	1.07	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 1.02678

RRF SD: 0.0447492, Relative SD: 4.35823

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	200306R2_1	1.25	1.27	NO	35.11	1.001	7.40e3	5.96e5	1.21	-3.3	0.993	bb
2	200306R2_2	2.50	1.24	NO	35.07	1.000	1.61e4	6.11e5	2.57	2.9	1.06	bb
3	200306R2_3	10.0	1.24	NO	35.08	1.000	6.28e4	5.68e5	10.8	7.6	1.10	bd
4	200306R2_4	50.0	1.25	NO	35.08	1.000	3.95e5	7.83e5	49.1	-1.8	1.01	MM
5	200306R2_5	200	1.23	NO	35.08	1.001	1.63e6	8.17e5	195	-2.7	0.999	bb
6	200306R2_6	1500	1.23	NO	35.10	1.000	1.48e7	9.86e5	1460	-2.7	0.999	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 1.04827

RRF SD: 0.0494086, Relative SD: 4.71334

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	200306R2_1	1.25	1.07	NO	36.81	1.000	6.78e3	5.13e5	1.26	0.8	1.06	bb
2	200306R2_2	2.50	0.98	NO	36.78	1.000	1.55e4	5.54e5	2.67	6.7	1.12	bb

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	10.0	1.01	NO	36.79	1.000	5.42e4	4.96e5	10.4	4.2	1.09	bb
4	200306R2_4	50.0	1.00	NO	36.79	1.000	3.53e5	7.08e5	47.5	-5.0	0.996	bb
5	200306R2_5	200	1.00	NO	36.79	1.000	1.46e6	7.21e5	193	-3.6	1.01	bb
6	200306R2_6	1500	1.01	NO	36.80	1.000	1.31e7	8.61e5	1450	-3.2	1.02	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.2099

RRF SD: 0.0633946, Relative SD: 5.23967

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	200306R2_1	1.25	0.94	NO	38.85	1.001	4.87e3	3.35e5	1.20	-3.8	1.16	bb
2	200306R2_2	2.50	0.98	NO	38.82	1.000	1.18e4	3.60e5	2.72	8.8	1.32	bb
3	200306R2_3	10.0	0.98	NO	38.82	1.000	4.25e4	3.38e5	10.4	4.1	1.26	bb
4	200306R2_4	50.0	1.00	NO	38.82	1.000	2.73e5	4.70e5	48.0	-4.0	1.16	bb
5	200306R2_5	200	1.01	NO	38.82	1.000	1.18e6	4.99e5	195	-2.3	1.18	bb
6	200306R2_6	1500	1.01	NO	38.83	1.000	1.06e7	6.02e5	1460	-2.8	1.18	bb

Compound name: OCDF

Response Factor: 0.946773

RRF SD: 0.0474682, Relative SD: 5.01368

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	200306R2_1	2.50	0.83	NO	41.43	1.000	9.98e3	8.40e5	2.51	0.4	0.950	MM
2	200306R2_2	5.00	0.93	NO	41.40	1.000	2.36e4	9.23e5	5.39	7.8	1.02	bb
3	200306R2_3	20.0	0.89	NO	41.40	1.000	8.67e4	8.82e5	20.8	3.9	0.983	bb
4	200306R2_4	100	0.88	NO	41.41	1.000	5.44e5	1.20e6	95.4	-4.6	0.904	bb
5	200306R2_5	400	0.88	NO	41.40	1.000	2.61e6	1.42e6	387	-3.2	0.917	bb
6	200306R2_6	3000	0.89	NO	41.42	1.000	2.37e7	1.75e6	2870	-4.3	0.906	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.18423

RRF SD: 0.101442, Relative SD: 8.56612

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	200306R2_1	100	0.79	NO	25.80	1.028	1.02e6	7.81e5	110	10.3	1.31	MM
2	200306R2_2	100	0.78	NO	25.76	1.028	1.04e6	9.79e5	89.6	-10.4	1.06	bb
3	200306R2_3	100	0.79	NO	25.78	1.028	9.83e5	9.27e5	89.5	-10.5	1.06	bb
4	200306R2_4	100	0.78	NO	25.78	1.028	1.15e6	9.40e5	103	3.3	1.22	bb
5	200306R2_5	100	0.78	NO	25.76	1.028	1.30e6	1.07e6	102	2.0	1.21	bb
6	200306R2_6	100	0.79	NO	25.76	1.028	1.34e6	1.07e6	105	5.2	1.25	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.864397

RRF SD: 0.123368, Relative SD: 14.2722

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	200306R2_1	100	0.64	NO	30.99	1.235	7.13e5	7.81e5	106	5.7	0.914	bb
2	200306R2_2	100	0.63	NO	30.96	1.235	6.98e5	9.79e5	82.5	-17.5	0.713	bb
3	200306R2_3	100	0.64	NO	30.97	1.235	6.63e5	9.27e5	82.7	-17.3	0.715	bb
4	200306R2_4	100	0.62	NO	30.97	1.235	9.00e5	9.40e5	111	10.8	0.958	bb
5	200306R2_5	100	0.64	NO	30.97	1.236	9.49e5	1.07e6	102	2.3	0.884	bb
6	200306R2_6	100	0.63	NO	30.97	1.236	1.08e6	1.07e6	116	16.1	1.00	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.753912

RRF SD: 0.0956829, Relative SD: 12.6915

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	200306R2_1	100	1.25	NO	34.38	1.014	5.37e5	6.43e5	111	10.7	0.835	bd
2	200306R2_2	100	1.28	NO	34.35	1.014	5.23e5	7.96e5	87.2	-12.8	0.657	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	200306R2_3	100	1.28	NO	34.36	1.014	4.95e5	7.60e5	86.4	-13.6	0.652	bd
4	200306R2_4	100	1.27	NO	34.36	1.014	6.79e5	9.06e5	99.5	-0.5	0.750	bd
5	200306R2_5	100	1.26	NO	34.36	1.014	6.81e5	9.24e5	97.8	-2.2	0.738	bd
6	200306R2_6	100	1.28	NO	34.37	1.014	8.39e5	9.40e5	118	18.4	0.892	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.925405

RRF SD: 0.118798, Relative SD: 12.8375

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	200306R2_1	100	1.25	NO	34.49	1.017	6.23e5	6.43e5	105	4.6	0.968	db
2	200306R2_2	100	1.26	NO	34.46	1.017	6.45e5	7.96e5	87.5	-12.5	0.810	db
3	200306R2_3	100	1.25	NO	34.47	1.017	6.06e5	7.60e5	86.2	-13.8	0.797	db
4	200306R2_4	100	1.28	NO	34.47	1.017	8.29e5	9.06e5	98.9	-1.1	0.916	db
5	200306R2_5	100	1.28	NO	34.46	1.017	8.67e5	9.24e5	101	1.4	0.939	db
6	200306R2_6	100	1.27	NO	34.47	1.017	1.05e6	9.40e5	121	21.3	1.12	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.829419

RRF SD: 0.100271, Relative SD: 12.0893

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	200306R2_1	100	1.30	NO	34.75	1.025	5.57e5	6.43e5	104	4.5	0.867	bd
2	200306R2_2	100	1.23	NO	34.72	1.025	5.80e5	7.96e5	87.8	-12.2	0.728	bb
3	200306R2_3	100	1.24	NO	34.73	1.025	5.46e5	7.60e5	86.6	-13.4	0.718	bb
4	200306R2_4	100	1.23	NO	34.73	1.025	7.47e5	9.06e5	99.4	-0.6	0.825	bb
5	200306R2_5	100	1.19	NO	34.73	1.025	7.83e5	9.24e5	102	2.3	0.848	bb
6	200306R2_6	100	1.25	NO	34.74	1.025	9.31e5	9.40e5	119	19.4	0.990	bb

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

Response Factor: 0.598232

RRF SD: 0.0717306, Relative SD: 11.9904

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	200306R2_1	100	1.03	NO	38.21	1.127	3.74e5	6.43e5	97.3	-2.7	0.582	bb
2	200306R2_2	100	1.06	NO	38.17	1.127	4.34e5	7.96e5	91.1	-8.9	0.545	bd
3	200306R2_3	100	1.06	NO	38.17	1.126	3.84e5	7.60e5	84.5	-15.5	0.506	bb
4	200306R2_4	100	1.05	NO	38.19	1.127	5.52e5	9.06e5	102	1.9	0.610	bb
5	200306R2_5	100	1.11	NO	38.18	1.127	5.89e5	9.24e5	107	6.6	0.638	bd
6	200306R2_6	100	1.06	NO	38.19	1.127	6.67e5	9.40e5	119	18.6	0.709	bb

Compound name: 13C-OCDD

Response Factor: 0.571169

RRF SD: 0.108174, Relative SD: 18.9391

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	200306R2_1	200	0.90	NO	41.23	1.216	7.05e5	6.43e5	192	-4.0	0.548	bd
2	200306R2_2	200	0.90	NO	41.21	1.216	7.62e5	7.96e5	168	-16.2	0.479	bb
3	200306R2_3	200	0.94	NO	41.22	1.216	7.16e5	7.60e5	165	-17.5	0.471	bd
4	200306R2_4	200	0.85	NO	41.21	1.216	9.75e5	9.06e5	189	-5.7	0.538	bb
5	200306R2_5	200	0.89	NO	41.21	1.216	1.17e6	9.24e5	222	11.0	0.634	bd
6	200306R2_6	200	0.90	NO	41.23	1.217	1.42e6	9.40e5	265	32.5	0.757	bd

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08928

RRF SD: 0.0987678, Relative SD: 9.06725

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	200306R2_1	100	0.79	NO	24.84	0.990	1.43e6	1.19e6	111	11.0	1.21	bb
2	200306R2_2	100	0.79	NO	24.79	0.989	1.45e6	1.48e6	89.7	-10.3	0.977	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	200306R2_3	100	0.77	NO	24.81	0.989	1.38e6	1.43e6	88.3	-11.7	0.962	bb
4	200306R2_4	100	0.78	NO	24.82	0.990	1.46e6	1.27e6	106	5.6	1.15	bb
5	200306R2_5	100	0.78	NO	24.81	0.990	1.74e6	1.56e6	103	2.7	1.12	bb
6	200306R2_6	100	0.78	NO	24.79	0.989	1.81e6	1.62e6	103	2.7	1.12	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.876347

RRF SD: 0.137914, Relative SD: 15.7373

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	200306R2_1	100	1.55	NO	29.66	1.182	1.13e6	1.19e6	109	8.6	0.952	bb
2	200306R2_2	100	1.60	NO	29.63	1.182	1.07e6	1.48e6	82.5	-17.5	0.723	bb
3	200306R2_3	100	1.58	NO	29.63	1.182	9.93e5	1.43e6	79.2	-20.8	0.694	bb
4	200306R2_4	100	1.60	NO	29.63	1.181	1.30e6	1.27e6	117	17.2	1.03	bb
5	200306R2_5	100	1.57	NO	29.63	1.182	1.38e6	1.56e6	101	1.2	0.887	bb
6	200306R2_6	100	1.57	NO	29.65	1.183	1.58e6	1.62e6	111	11.3	0.976	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.843553

RRF SD: 0.133299, Relative SD: 15.8021

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	200306R2_1	100	1.57	NO	30.68	1.223	1.05e6	1.19e6	105	4.8	0.884	db
2	200306R2_2	100	1.58	NO	30.64	1.222	1.02e6	1.48e6	81.4	-18.6	0.687	db
3	200306R2_3	100	1.58	NO	30.65	1.222	9.68e5	1.43e6	80.2	-19.8	0.677	db
4	200306R2_4	100	1.60	NO	30.65	1.222	1.27e6	1.27e6	118	18.2	0.997	db
5	200306R2_5	100	1.58	NO	30.65	1.223	1.36e6	1.56e6	103	3.2	0.870	db
6	200306R2_6	100	1.60	NO	30.67	1.224	1.53e6	1.62e6	112	12.2	0.947	db

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.00027

RRF SD: 0.122541, Relative SD: 12.2508

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	200306R2_1	100	0.52	NO	33.52	0.988	7.10e5	6.43e5	110	10.3	1.10	bd
2	200306R2_2	100	0.51	NO	33.50	0.989	6.91e5	7.96e5	86.8	-13.2	0.869	bd
3	200306R2_3	100	0.52	NO	33.51	0.989	6.52e5	7.60e5	85.8	-14.2	0.858	bd
4	200306R2_4	100	0.51	NO	33.51	0.989	8.98e5	9.06e5	99.1	-0.9	0.992	bd
5	200306R2_5	100	0.52	NO	33.50	0.989	9.40e5	9.24e5	102	1.7	1.02	bd
6	200306R2_6	100	0.52	NO	33.51	0.989	1.09e6	9.40e5	116	16.3	1.16	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.1178

RRF SD: 0.141321, Relative SD: 12.6428

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	200306R2_1	100	0.51	NO	33.65	0.992	7.80e5	6.43e5	108	8.5	1.21	db
2	200306R2_2	100	0.51	NO	33.62	0.992	7.71e5	7.96e5	86.6	-13.4	0.969	db
3	200306R2_3	100	0.53	NO	33.63	0.992	7.22e5	7.60e5	85.0	-15.0	0.951	db
4	200306R2_4	100	0.52	NO	33.63	0.992	1.01e6	9.06e5	99.9	-0.1	1.12	db
5	200306R2_5	100	0.53	NO	33.61	0.992	1.05e6	9.24e5	102	2.1	1.14	db
6	200306R2_6	100	0.52	NO	33.64	0.993	1.24e6	9.40e5	118	17.9	1.32	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.03533

RRF SD: 0.12301, Relative SD: 11.8812

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	200306R2_1	100	0.52	NO	34.21	1.009	7.13e5	6.43e5	107	7.1	1.11	bb
2	200306R2_2	100	0.51	NO	34.18	1.009	7.13e5	7.96e5	86.5	-13.5	0.896	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
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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	200306R2_3	100	0.52	NO	34.19	1.009	6.81e5	7.60e5	86.6	-13.4	0.896	bb
4	200306R2_4	100	0.53	NO	34.19	1.009	9.38e5	9.06e5	100	0.1	1.04	MM
5	200306R2_5	100	0.52	NO	34.19	1.009	9.84e5	9.24e5	103	2.9	1.07	bb
6	200306R2_6	100	0.52	NO	34.20	1.009	1.14e6	9.40e5	117	16.9	1.21	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.873112

RRF SD: 0.110234, Relative SD: 12.6254

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	200306R2_1	100	0.51	NO	35.08	1.035	5.96e5	6.43e5	106	6.1	0.926	bb
2	200306R2_2	100	0.51	NO	35.06	1.035	6.11e5	7.96e5	87.9	-12.1	0.768	bb
3	200306R2_3	100	0.52	NO	35.07	1.035	5.68e5	7.60e5	85.6	-14.4	0.747	bb
4	200306R2_4	100	0.52	NO	35.07	1.035	7.83e5	9.06e5	99.0	-1.0	0.864	bb
5	200306R2_5	100	0.51	NO	35.06	1.035	8.17e5	9.24e5	101	1.3	0.884	bb
6	200306R2_6	100	0.53	NO	35.08	1.035	9.86e5	9.40e5	120	20.1	1.05	bb

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

Response Factor: 0.770799

RRF SD: 0.0912069, Relative SD: 11.8328

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	200306R2_1	100	0.44	NO	36.80	1.085	5.13e5	6.43e5	104	3.5	0.798	bb
2	200306R2_2	100	0.46	NO	36.77	1.085	5.54e5	7.96e5	90.3	-9.7	0.696	bb
3	200306R2_3	100	0.45	NO	36.78	1.085	4.96e5	7.60e5	84.6	-15.4	0.652	bb
4	200306R2_4	100	0.46	NO	36.78	1.085	7.08e5	9.06e5	101	1.4	0.782	bd
5	200306R2_5	100	0.45	NO	36.78	1.086	7.21e5	9.24e5	101	1.3	0.781	bb
6	200306R2_6	100	0.45	NO	36.79	1.086	8.61e5	9.40e5	119	18.8	0.916	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.519283

RRF SD: 0.0710328, Relative SD: 13.679

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	200306R2_1	100	0.45	NO	38.83	1.145	3.35e5	6.43e5	100	0.2	0.521	bd
2	200306R2_2	100	0.45	NO	38.80	1.145	3.60e5	7.96e5	87.0	-13.0	0.452	bd
3	200306R2_3	100	0.44	NO	38.81	1.145	3.38e5	7.60e5	85.6	-14.4	0.444	bd
4	200306R2_4	100	0.45	NO	38.81	1.145	4.70e5	9.06e5	99.9	-0.1	0.519	bb
5	200306R2_5	100	0.44	NO	38.81	1.145	4.99e5	9.24e5	104	3.9	0.540	bb
6	200306R2_6	100	0.45	NO	38.82	1.145	6.02e5	9.40e5	123	23.3	0.640	bb

Compound name: 13C-OCDF

Response Factor: 0.696311

RRF SD: 0.133796, Relative SD: 19.215

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	200306R2_1	200	0.88	NO	41.42	1.221	8.40e5	6.43e5	188	-6.2	0.653	bb
2	200306R2_2	200	0.90	NO	41.38	1.221	9.23e5	7.96e5	167	-16.7	0.580	bb
3	200306R2_3	200	0.86	NO	41.39	1.221	8.82e5	7.60e5	167	-16.6	0.581	bb
4	200306R2_4	200	0.89	NO	41.40	1.222	1.20e6	9.06e5	191	-4.6	0.664	bb
5	200306R2_5	200	0.89	NO	41.39	1.222	1.42e6	9.24e5	221	10.7	0.771	bb
6	200306R2_6	200	0.89	NO	41.41	1.222	1.75e6	9.40e5	267	33.4	0.929	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.17455

RRF SD: 0.0840795, Relative SD: 7.15847

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	200306R2_1	0.250			25.84	1.030	2.53e3	7.81e5	0.276	10.3	1.30	bb
2	200306R2_2	0.500			25.78	1.029	5.58e3	9.79e5	0.486	-2.9	1.14	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time

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Compound name: 37Cl-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200306R2_3	2.00			25.80	1.029	1.94e4	9.27e5	1.78	-11.1	1.04	bb
4	200306R2_4	10.0			25.80	1.029	1.11e5	9.40e5	10.1	0.8	1.18	bb
5	200306R2_5	40.0			25.80	1.029	4.97e5	1.07e6	39.5	-1.4	1.16	bb
6	200306R2_6	200			25.80	1.029	2.63e6	1.07e6	208	4.2	1.22	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	200306R2_1	100	0.81	NO	25.09	1.000	7.81e5	7.81e5	100	0.0	1.00	bb
2	200306R2_2	100	0.80	NO	25.06	1.000	9.79e5	9.79e5	100	0.0	1.00	bb
3	200306R2_3	100	0.80	NO	25.08	1.000	9.27e5	9.27e5	100	0.0	1.00	bb
4	200306R2_4	100	0.78	NO	25.08	1.000	9.40e5	9.40e5	100	0.0	1.00	bb
5	200306R2_5	100	0.81	NO	25.06	1.000	1.07e6	1.07e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	25.06	1.000	1.07e6	1.07e6	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	200306R2_1	100	0.80	NO	23.24	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
2	200306R2_2	100	0.79	NO	23.21	1.000	1.48e6	1.48e6	100	0.0	1.00	bb
3	200306R2_3	100	0.81	NO	23.21	1.000	1.43e6	1.43e6	100	0.0	1.00	bb
4	200306R2_4	100	0.79	NO	23.22	1.000	1.27e6	1.27e6	100	0.0	1.00	bb
5	200306R2_5	100	0.79	NO	23.21	1.000	1.56e6	1.56e6	100	0.0	1.00	bb
6	200306R2_6	100	0.79	NO	23.19	1.000	1.62e6	1.62e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-CRV.qld

Last Altered: Monday, March 09, 2020 08:18:02 Pacific Daylight Time
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Compound name: 13C-1,2,3,4,6,9-HxCDF

Response Factor: 1

RRF SD: 0, Relative SD: 0

Response type: Internal Std (Ref 38), Area * (IS Conc. / IS Area)

Curve type: RF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
1	200306R2_1	100	0.51	NO	33.91	1.000	6.43e5	6.43e5	100	0.0	1.00	bb
2	200306R2_2	100	0.52	NO	33.88	1.000	7.96e5	7.96e5	100	0.0	1.00	bb
3	200306R2_3	100	0.51	NO	33.89	1.000	7.60e5	7.60e5	100	0.0	1.00	bb
4	200306R2_4	100	0.52	NO	33.89	1.000	9.06e5	9.06e5	100	0.0	1.00	bb
5	200306R2_5	100	0.52	NO	33.88	1.000	9.24e5	9.24e5	100	0.0	1.00	bb
6	200306R2_6	100	0.52	NO	33.89	1.000	9.40e5	9.40e5	100	0.0	1.00	bb

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Last Altered: Monday, March 09, 2020 08:43:03 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:45:55 Pacific Daylight Time

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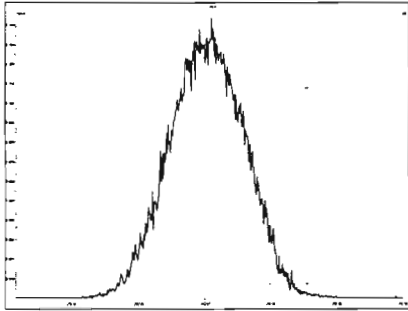
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5	200306R2_5	ST200306R2_5 1613 CS4 19L2306	06-Mar-20	16:19:37
6	200306R2_6	ST200306R2_6 1613 CS5 19L2307	06-Mar-20	17:07:03
7	200306R2_7	SOLVENT BLANK	06-Mar-20	17:56:11
8	200306R2_8	SS200306R2_1 1613 SSS 19L2308	06-Mar-20	18:42:29
9	200306R2_9	SOLVENT BLANK	06-Mar-20	19:38:48
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11	200306R2_11	2000406-10 PDI-049SC-A-05-06-191015 16.09	06-Mar-20	21:12:36
12	200306R2_12	2000406-11 PDI-049SC-A-06-07-191015 13.96	06-Mar-20	22:00:09
13	200306R2_13	2000406-12 PDI-049SC-A-07-08-191015 12.78	06-Mar-20	22:47:33
14	200306R2_14	2000406-13 PDI-059SC-A-11-12-191016 13.47	06-Mar-20	23:35:07
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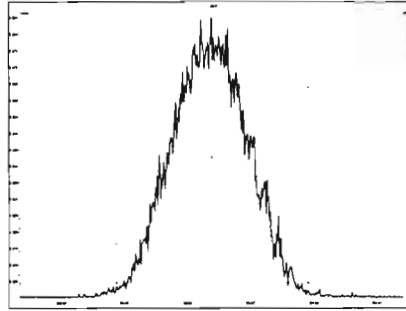
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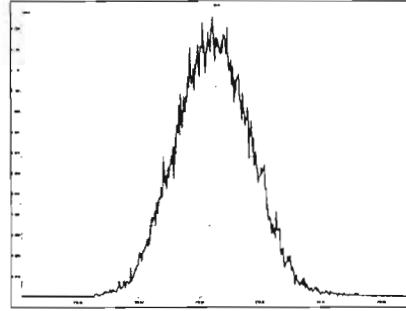
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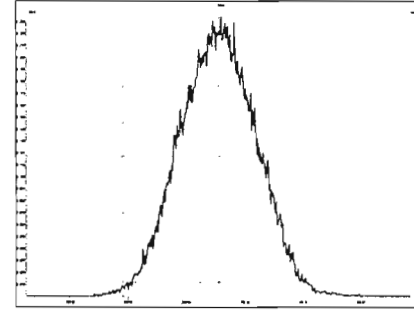
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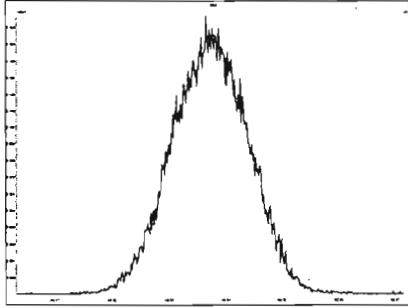
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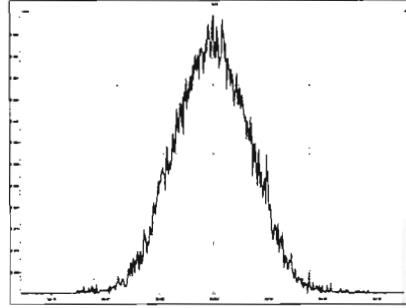
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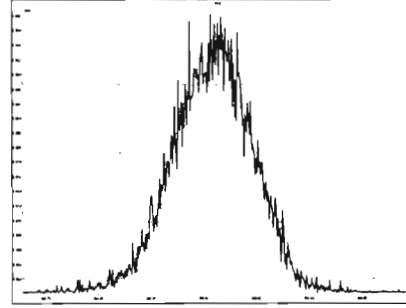
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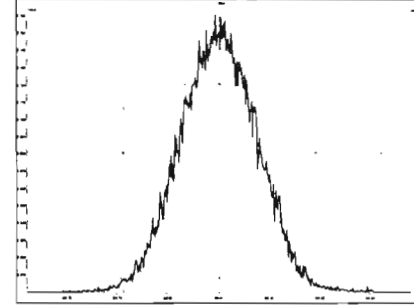
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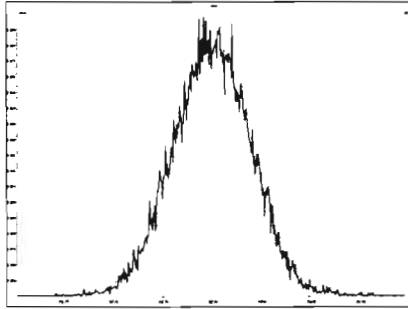
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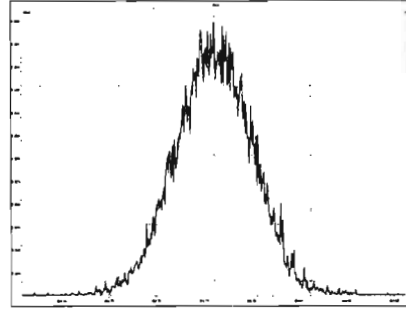
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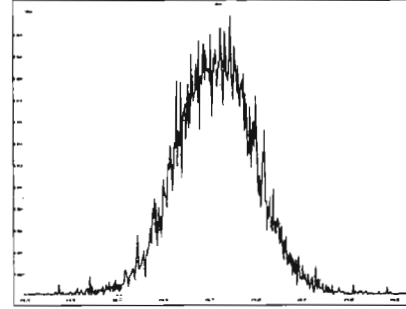
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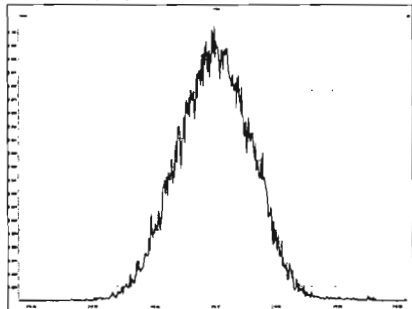
Experiment Calibration Report

MassLynx 4.1 SCN815

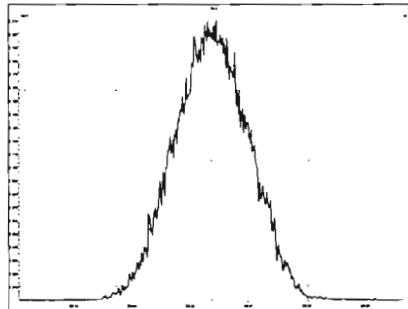
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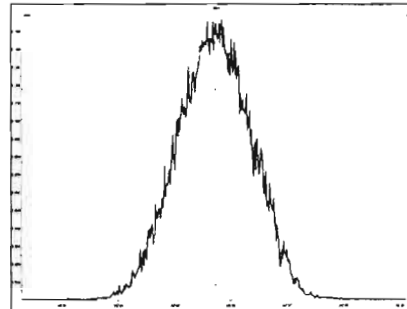
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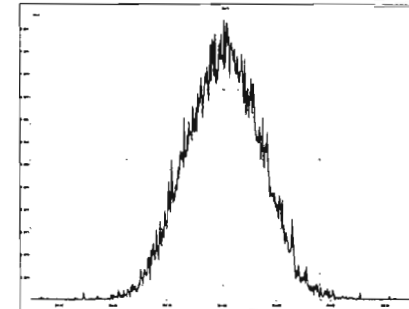
M 330.9792 R 11522



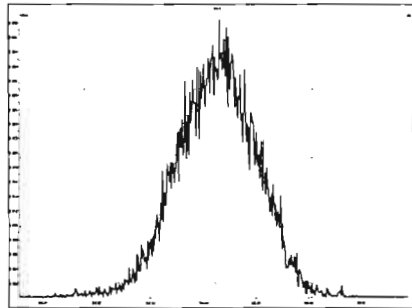
M 342.9792 R 11363



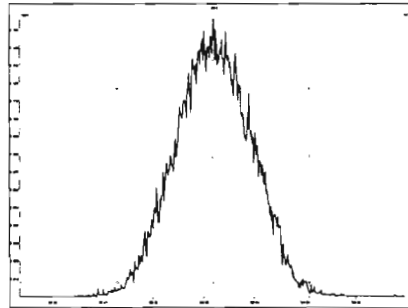
M 354.9792 R 11413



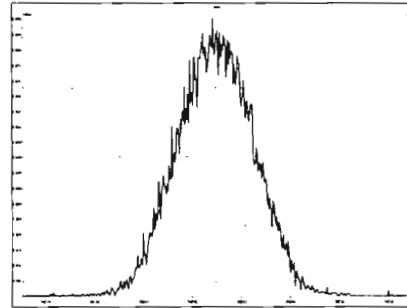
M 366.9792 R 10730



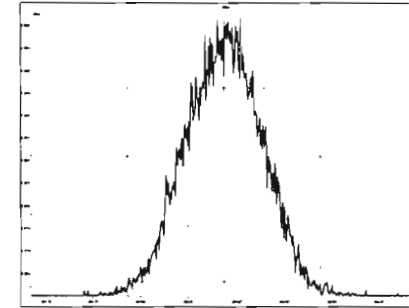
M 380.9760 R 11159



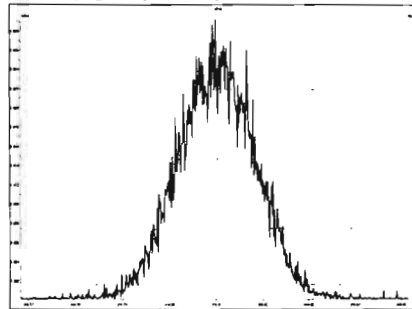
M 392.9760 R 11575



M 404.9760 R 11061



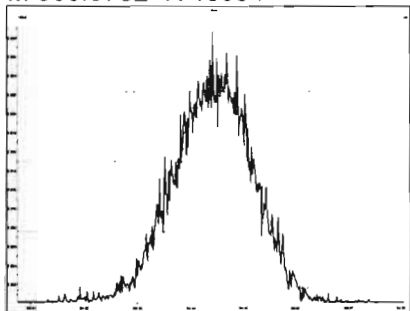
M 416.9760 R 10728



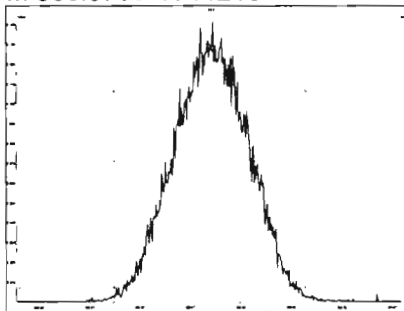
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 3 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:06 Pacific Standard Time

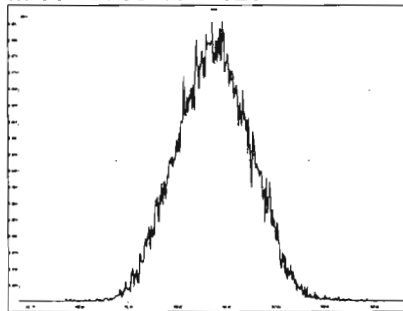
M 366.9792 R 10504



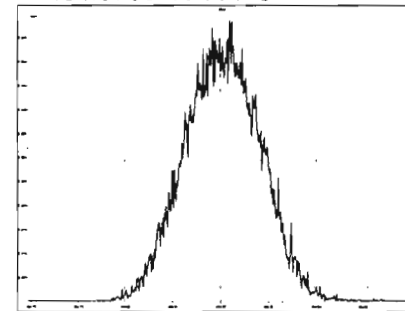
M 380.9760 R 11210



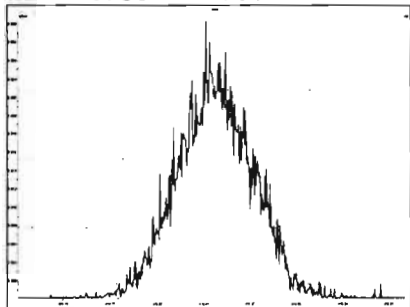
M 392.9760 R 11629



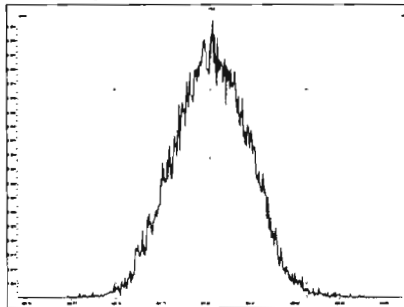
M 404.9760 R 11415



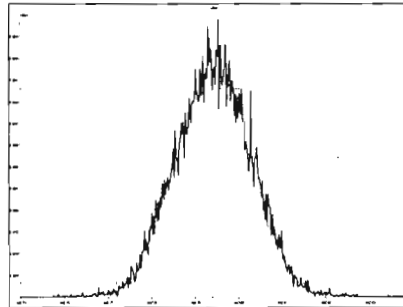
M 416.9760 R 11795



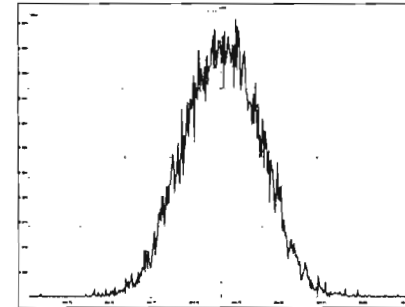
M 430.9728 R 11108



M 442.9728 R 11415



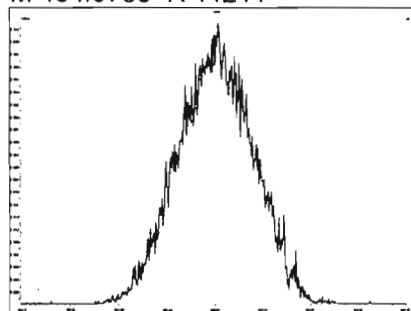
M 454.9728 R 11063



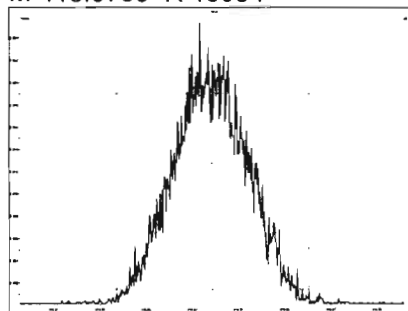
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 4 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:07:43 Pacific Standard Time

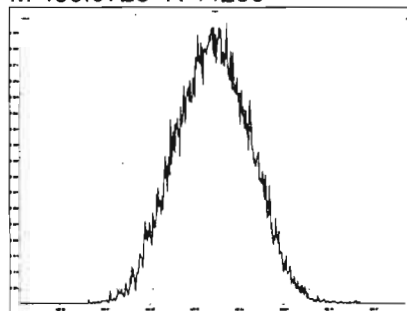
M 404.9760 R 11211



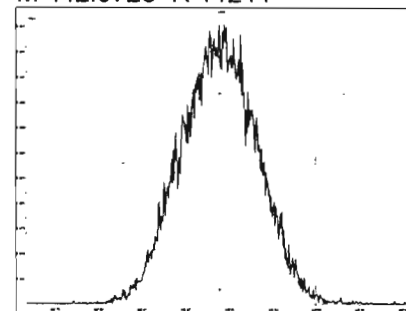
M 416.9760 R 10964



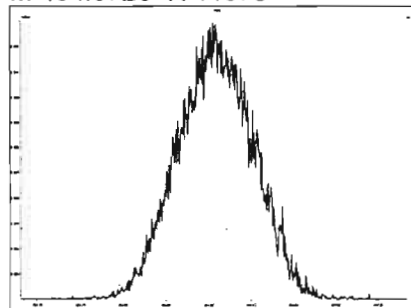
M 430.9728 R 11263



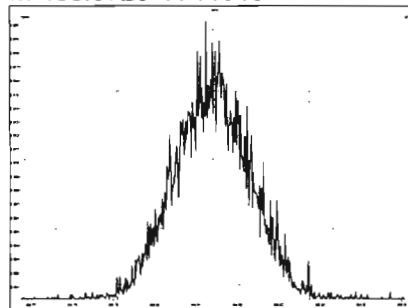
M 442.9728 R 11211



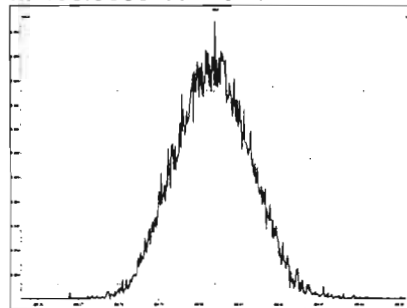
M 454.9728 R 11576



M 466.9728 R 11313



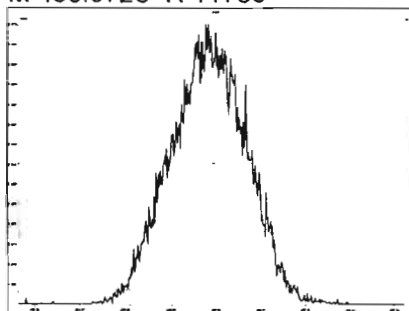
M 480.9696 R 11904



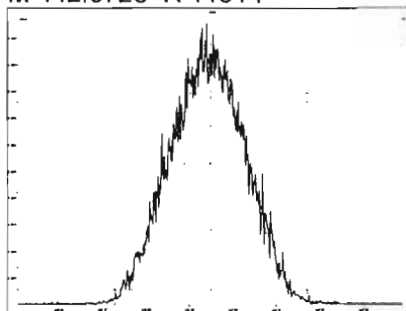
File: Experiment: OCDD_DB5.exp Reference: pfk.ref Function: 5 @ 200 (ppm)

Printed: Friday, March 06, 2020 13:08:16 Pacific Standard Time

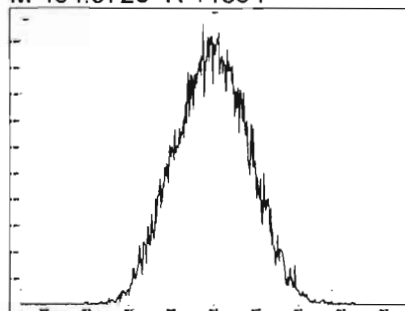
M 430.9728 R 11736



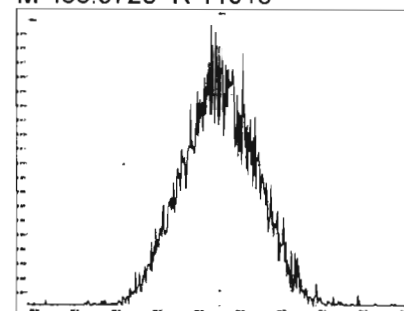
M 442.9728 R 11314



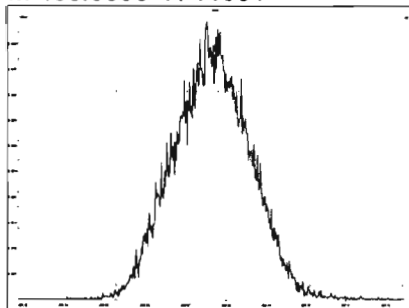
M 454.9728 R 11364



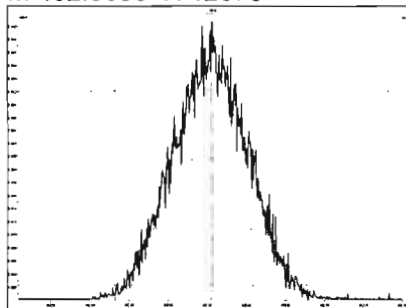
M 466.9728 R 11015



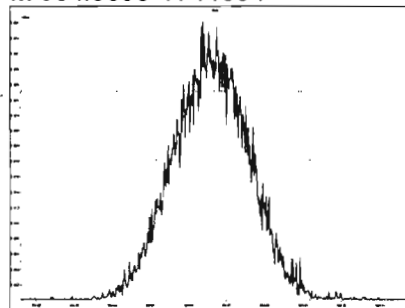
M 480.9696 R 11361



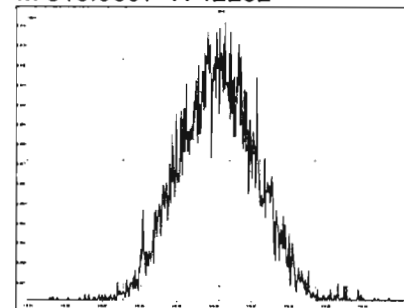
M 492.9696 R 12376



M 504.9696 R 11064



M 516.9697 R 12252



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.53
2	2 1,2,8,9-TCDD (Last)	26.81
3	3 1,2,4,7,9-PeCDD (First)	28.70
4	4 1,2,3,8,9-PeCDD (Last)	31.38
5	5 1,2,4,6,7,9-HxCDD (First)	32.90
6	6 1,2,3,7,8,9-HxCDD (Last)	34.74
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.17
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.21
9	9 1,3,6,8-TCDF (First)	19.52
10	10 1,2,8,9-TCDF (Last)	26.96
11	11 1,3,4,6,8-PeCDF (First)	26.93
12	12 1,2,3,8,9-PeCDF (Last)	31.63
13	13 1,2,3,4,6,8-HxCDF (First)	32.34
14	14 1,2,3,7,8,9-HxCDF (Last)	35.08
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.79
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.82

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:48:00 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:48:29 Pacific Daylight Time

GRB 03/09/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 06 Mar 2020 18:12:45

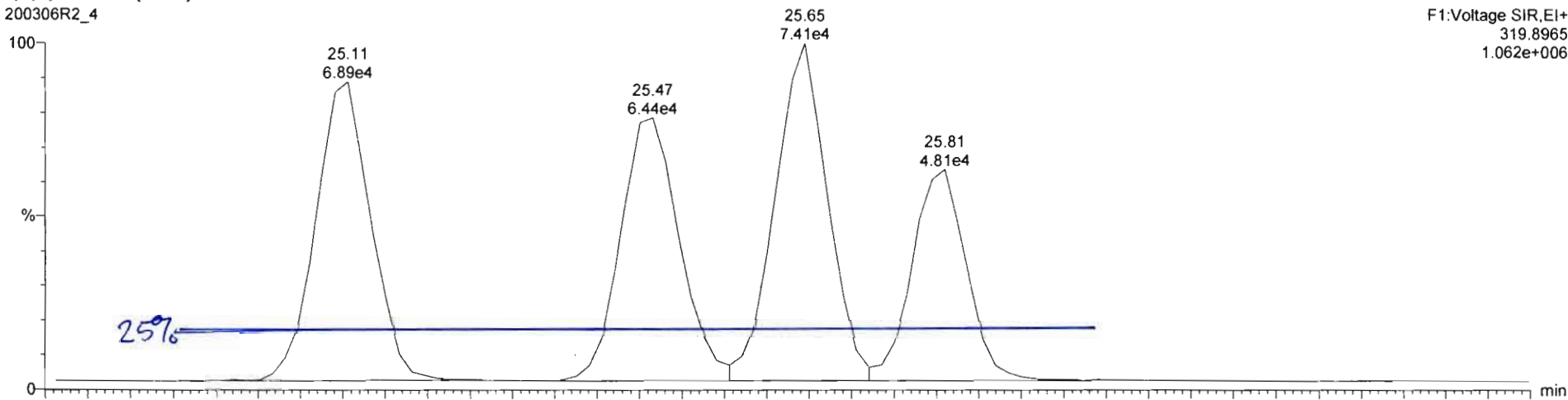
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

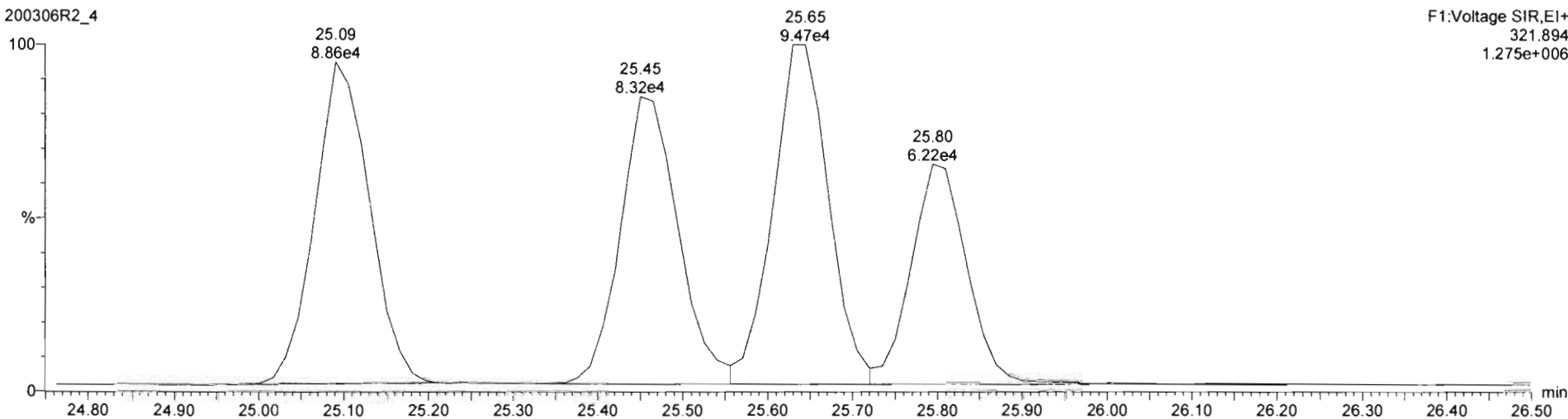
200306R2_4

F1:Voltage SIR,EI+
319.8965
1.062e+006



200306R2_4

F1:Voltage SIR,EI+
321.894
1.275e+006



Dataset: Untitled

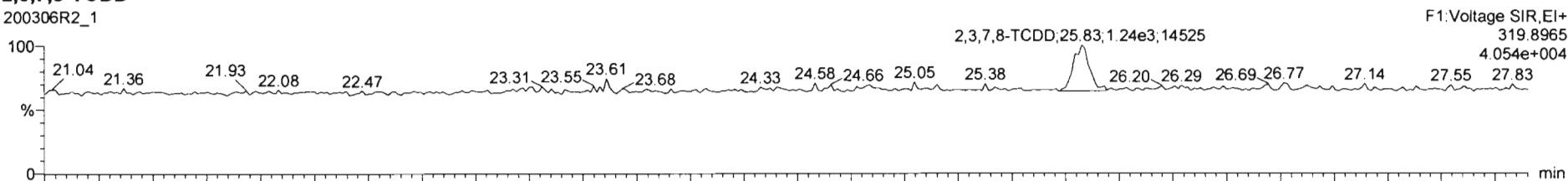
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

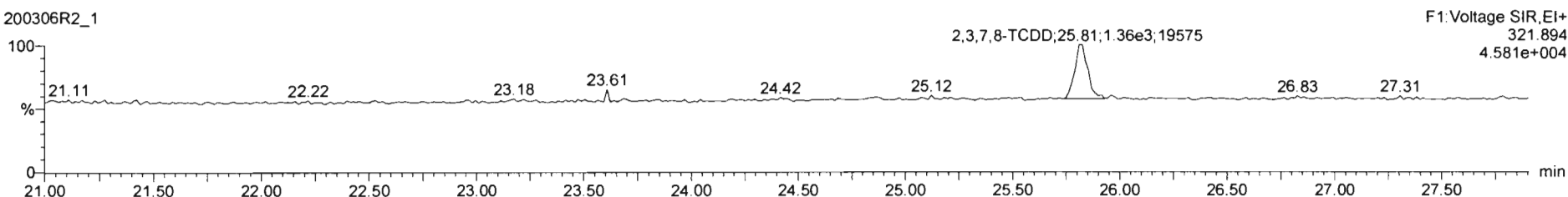
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200306R2_1

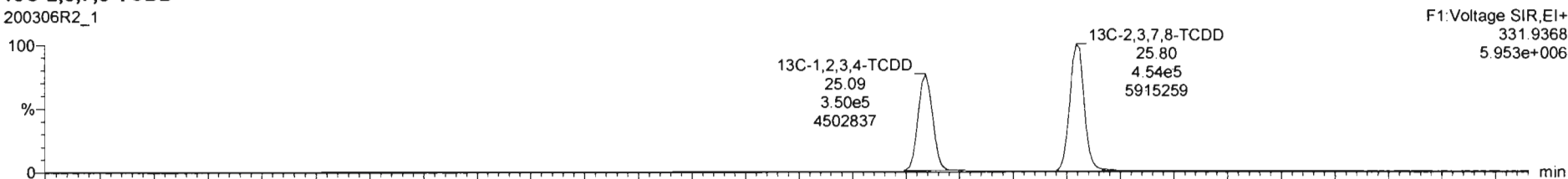


200306R2_1

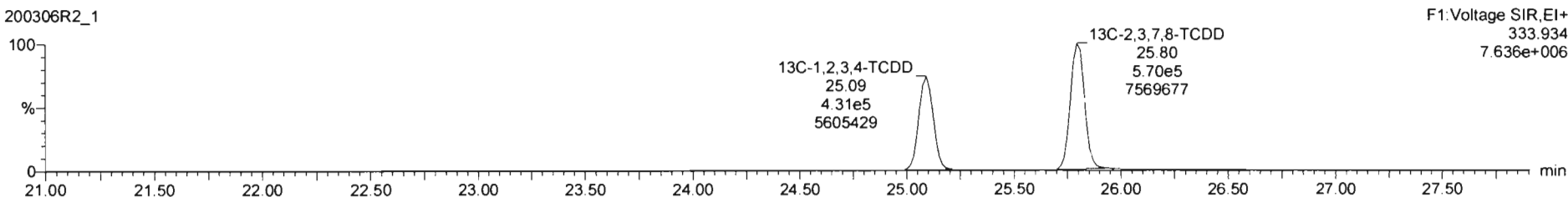


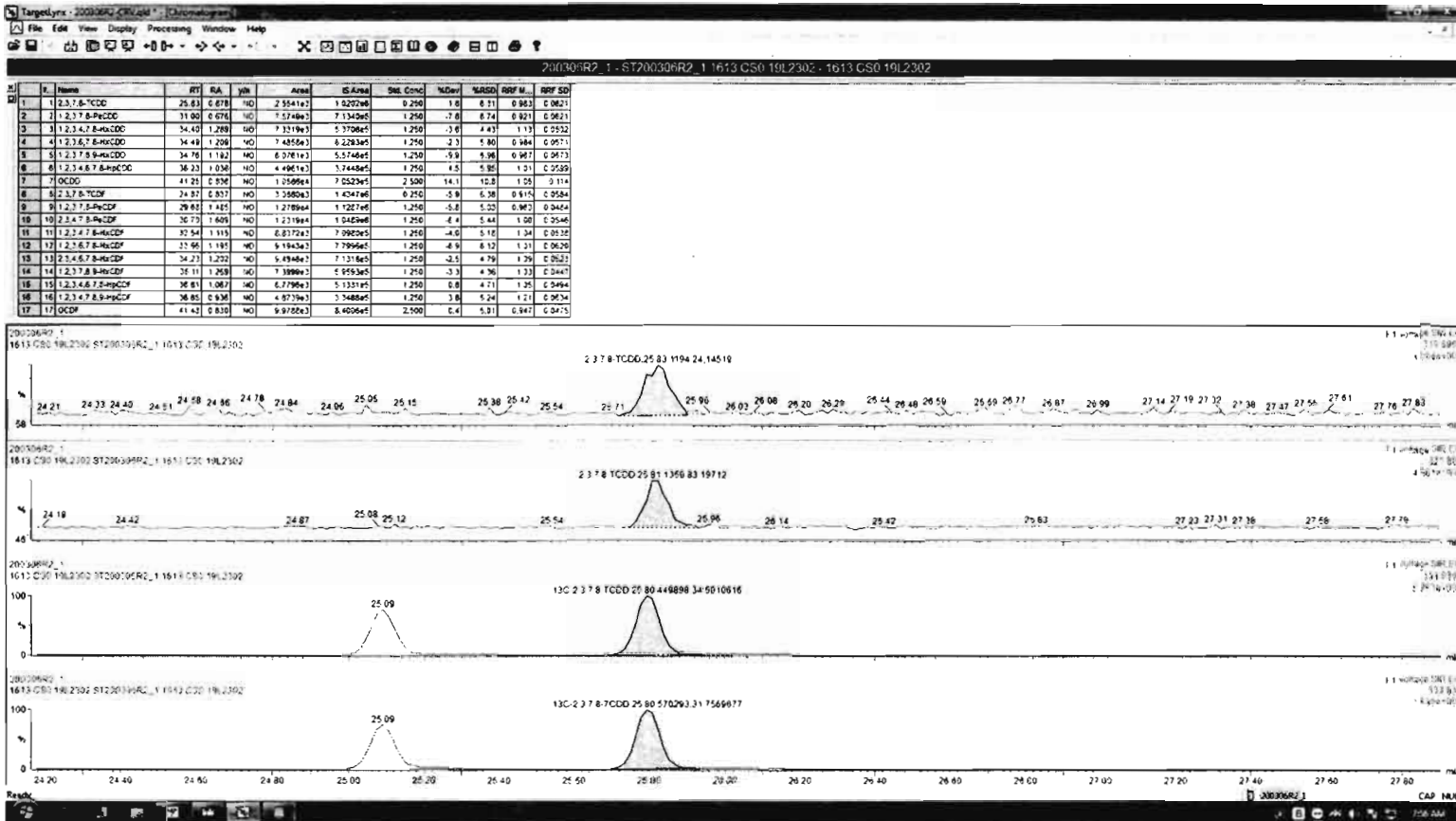
13C-2,3,7,8-TCDD

200306R2_1



200306R2_1





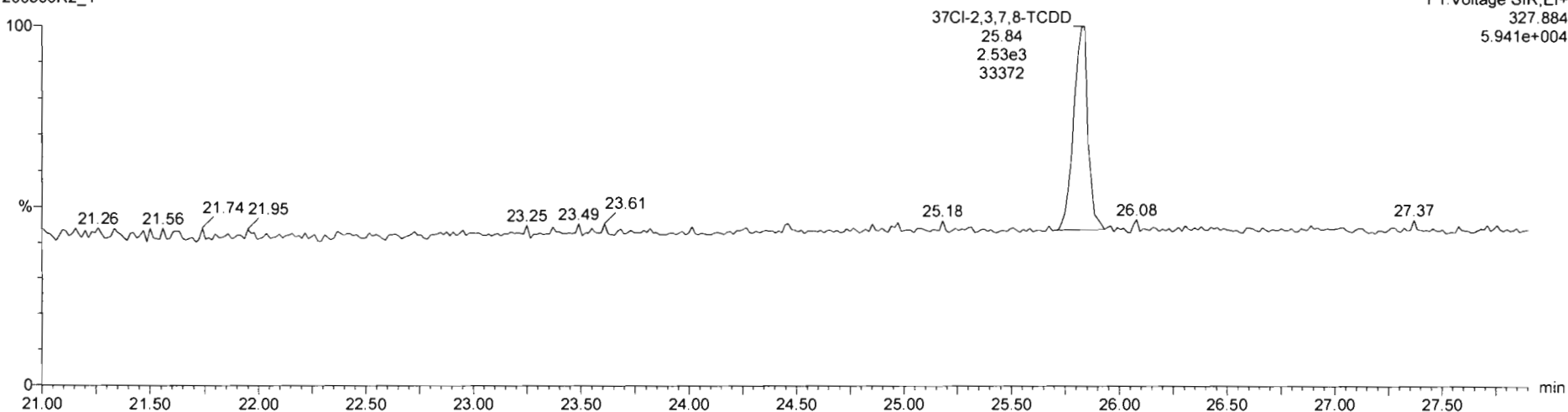
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

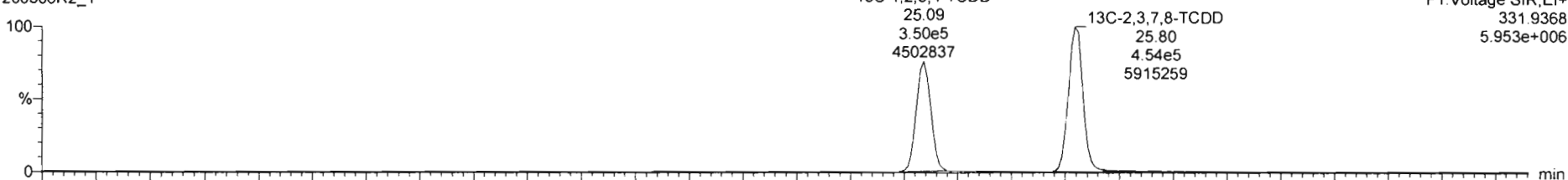
37Cl-2,3,7,8-TCDD

200306R2_1

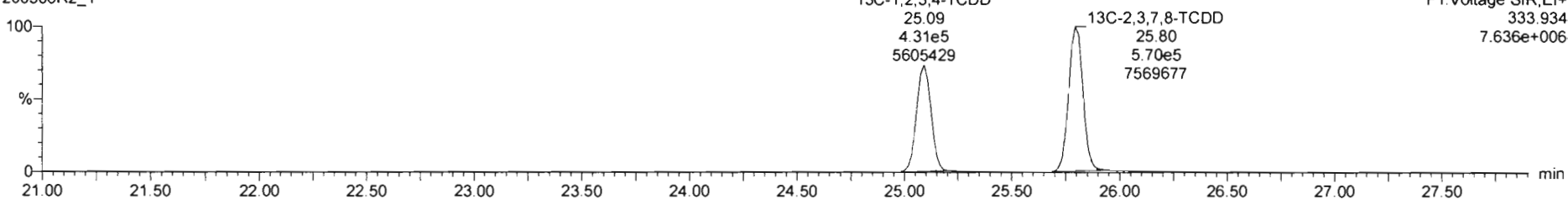


13C-1,2,3,4-TCDD

200306R2_1



200306R2_1



Dataset: Untitled

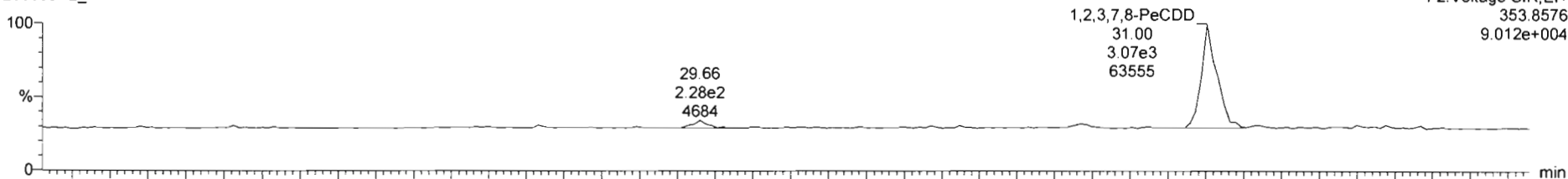
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

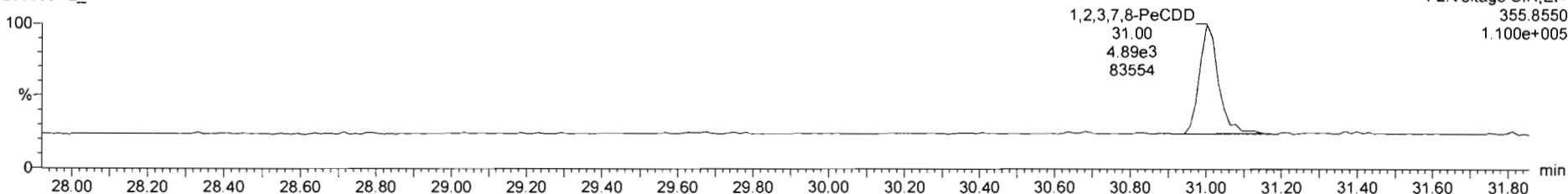
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1,2,3,7,8-PeCDD

200306R2_1

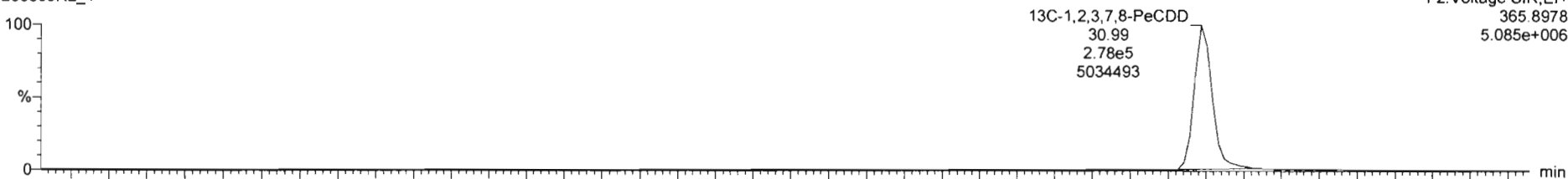


200306R2_1

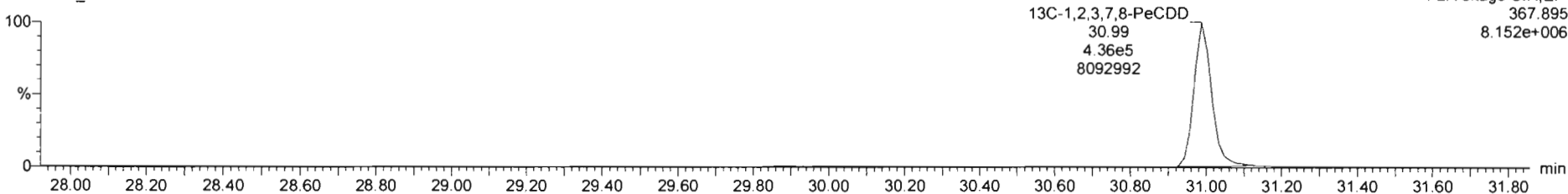


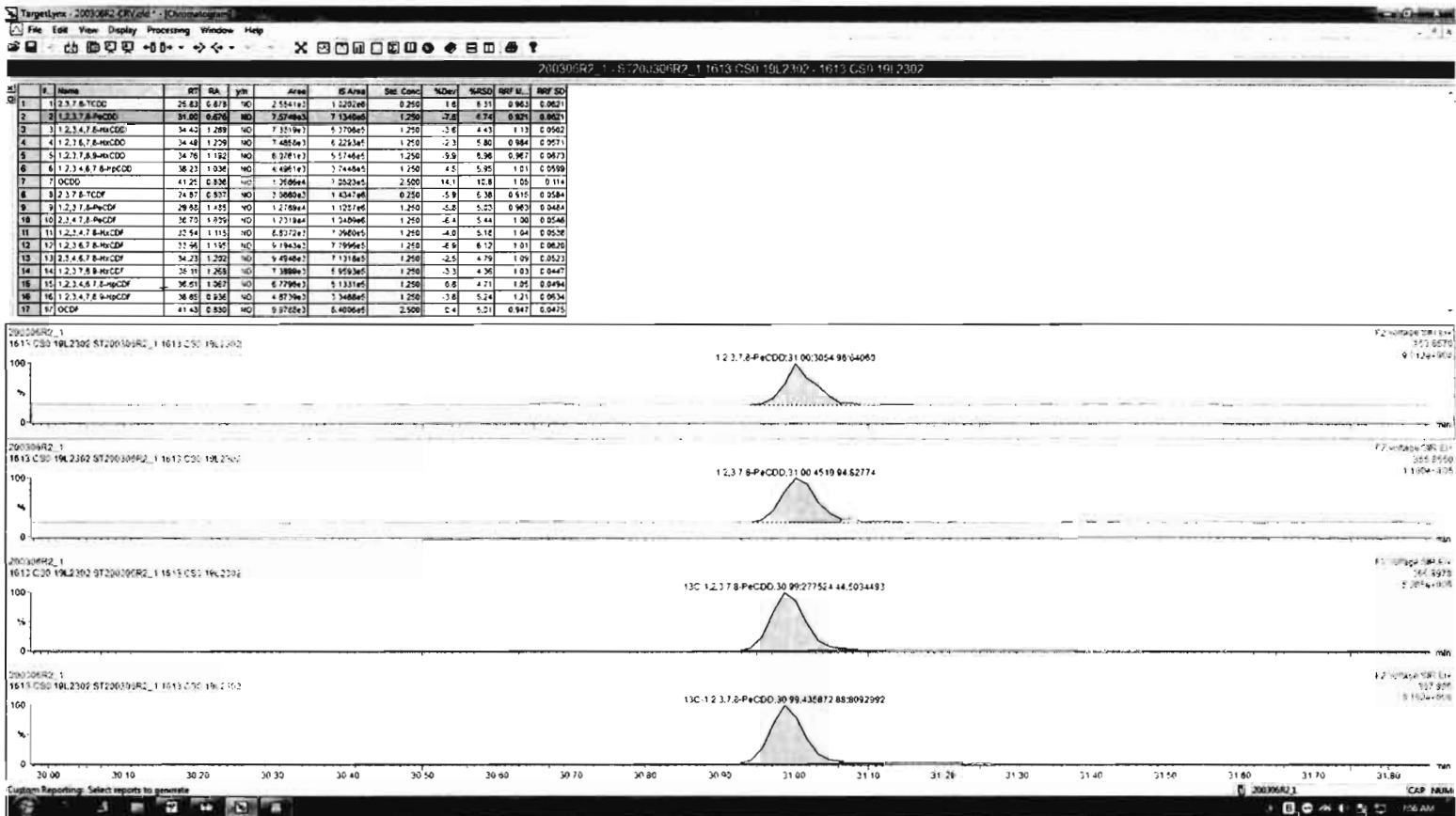
13C-1,2,3,7,8-PeCDD

200306R2_1



200306R2_1





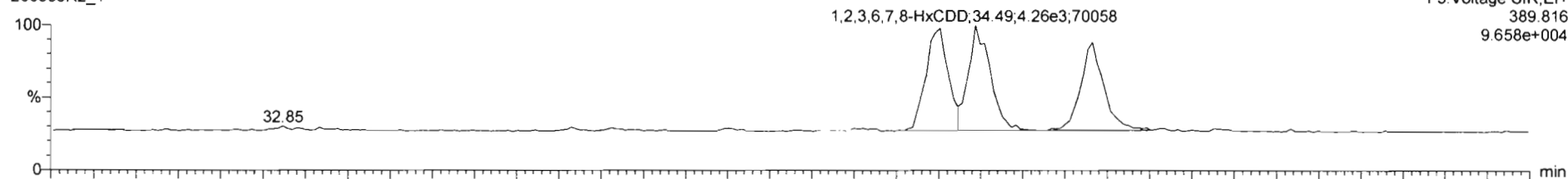
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

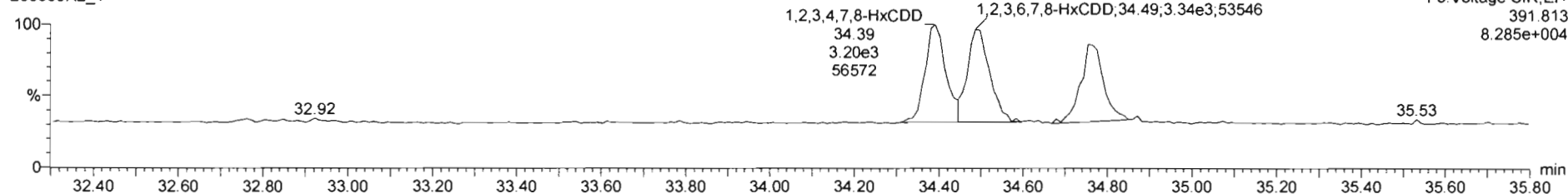
1,2,3,4,7,8-HxCDD

200306R2_1



F3: Voltage SIR, EI+
389.816
9.658e+004

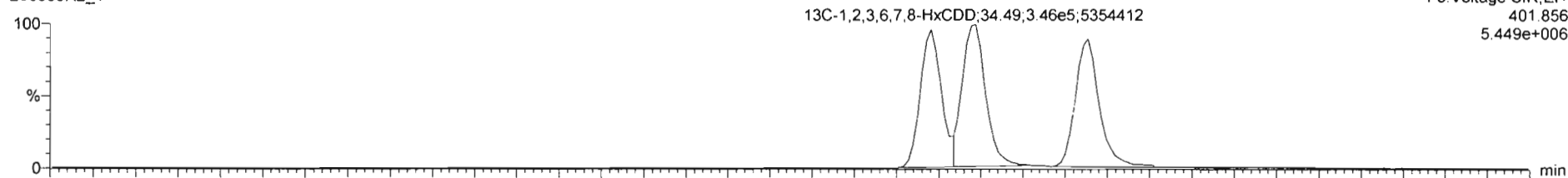
200306R2_1



F3: Voltage SIR, EI+
391.813
8.285e+004

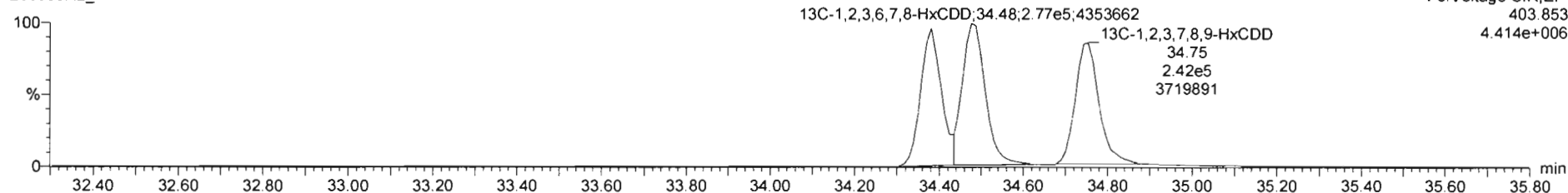
13C-1,2,3,4,7,8-HxCDD

200306R2_1

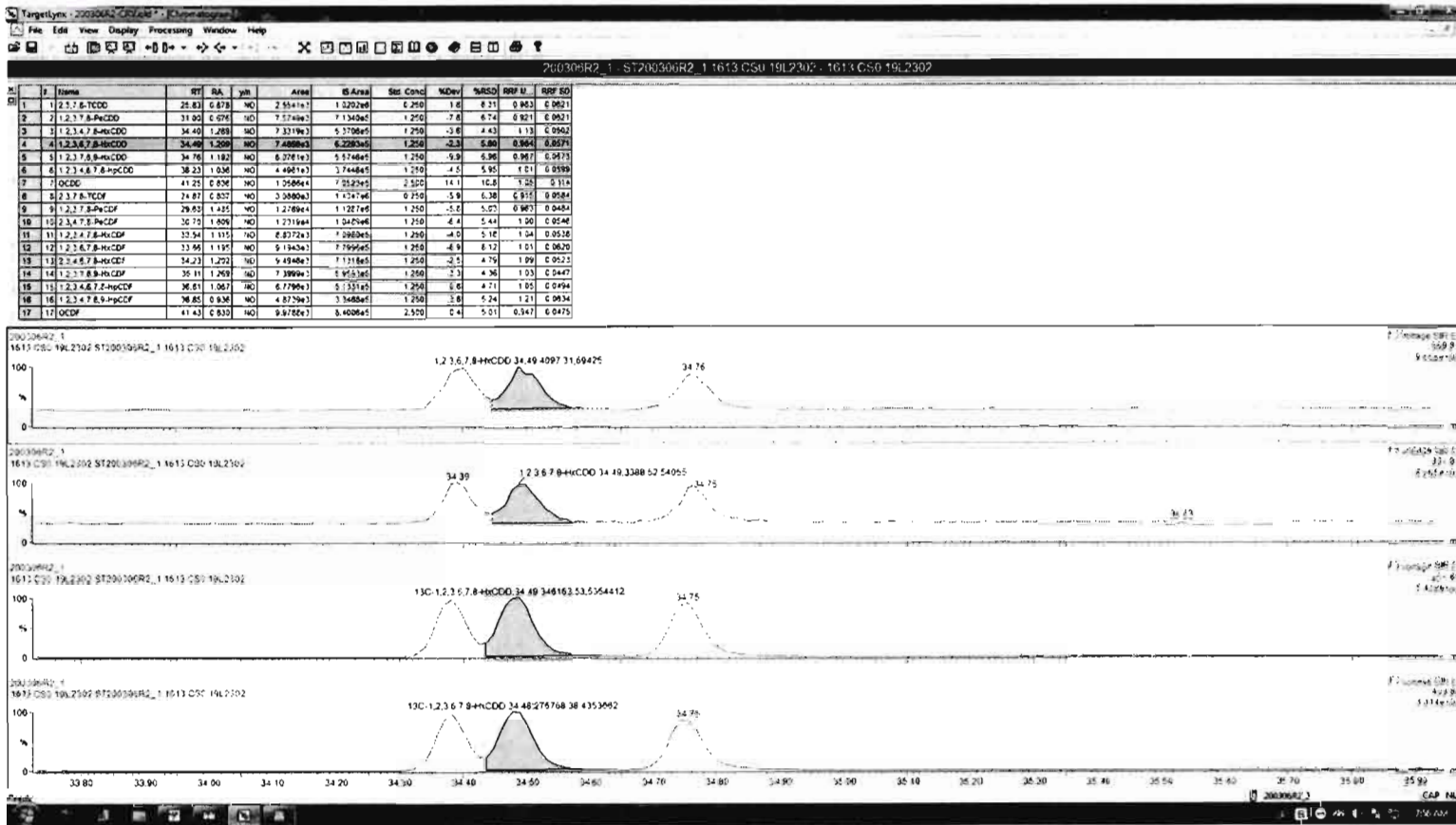


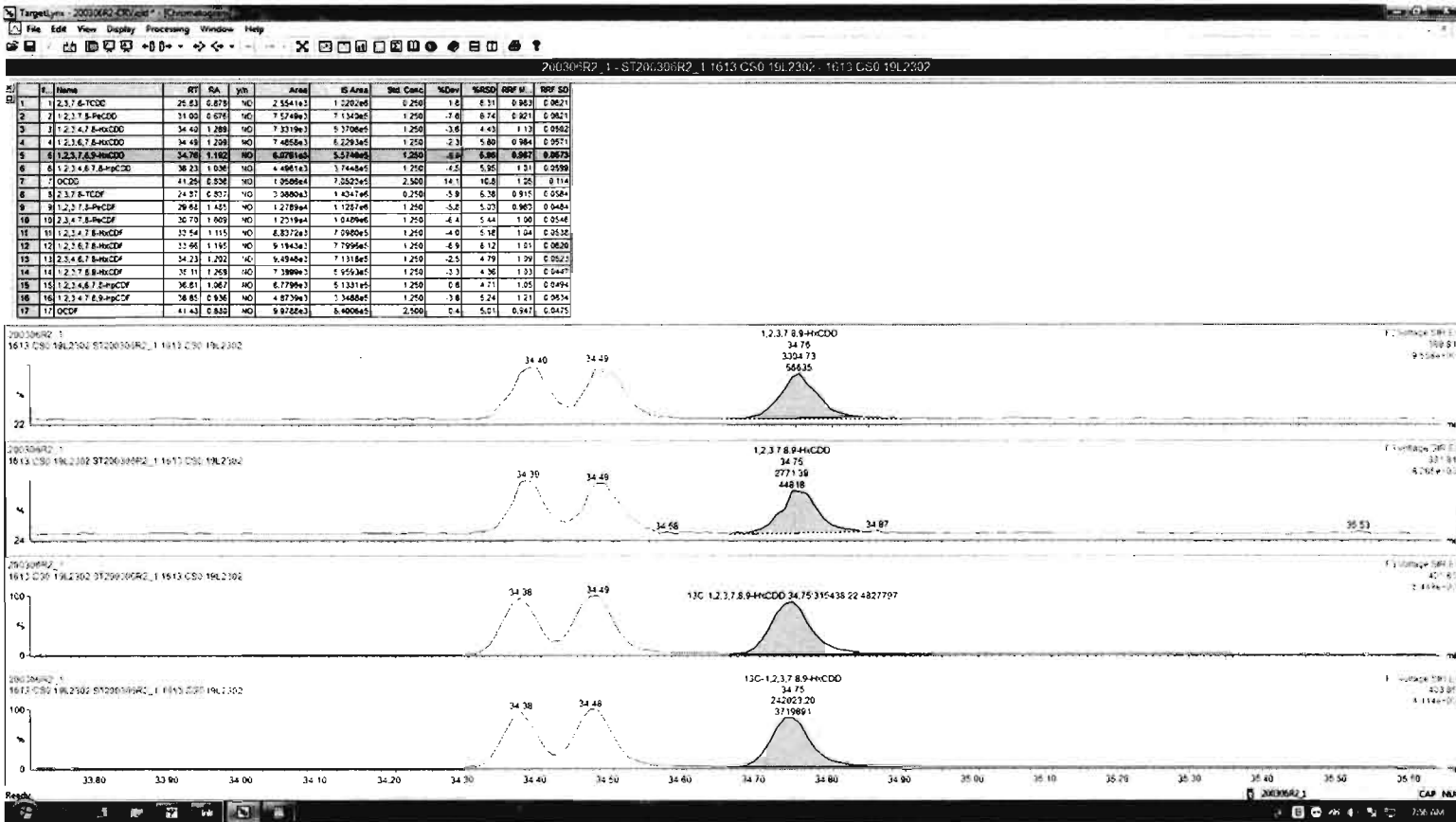
F3: Voltage SIR, EI+
401.856
5.449e+006

200306R2_1



F3: Voltage SIR, EI+
403.853
4.414e+006





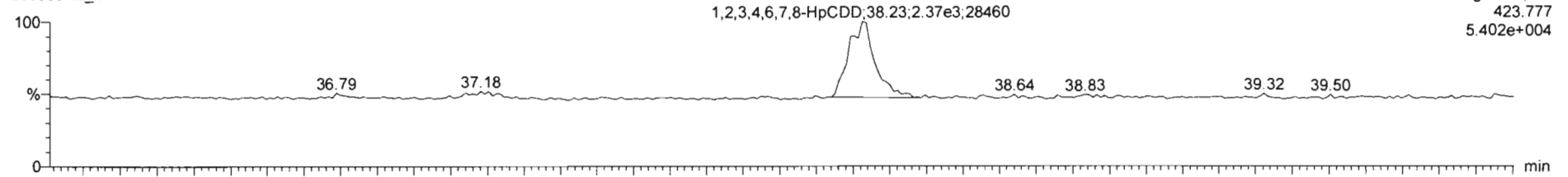
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

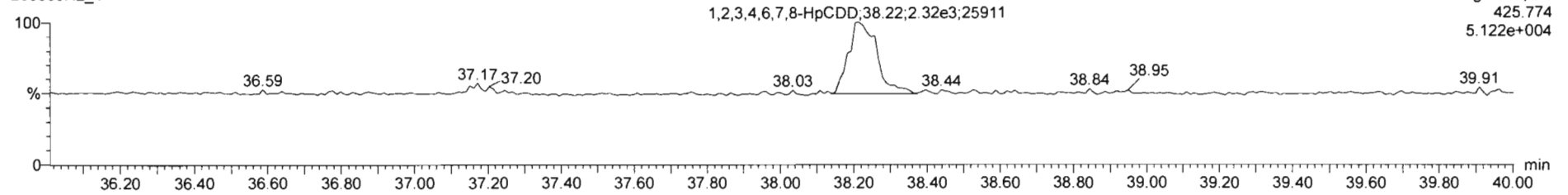
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200306R2_1

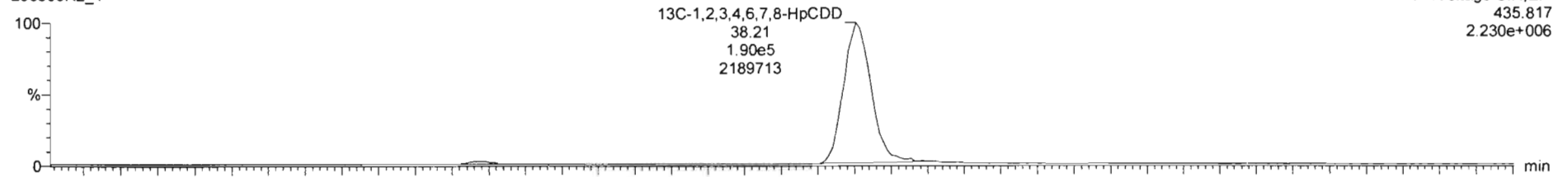


200306R2_1

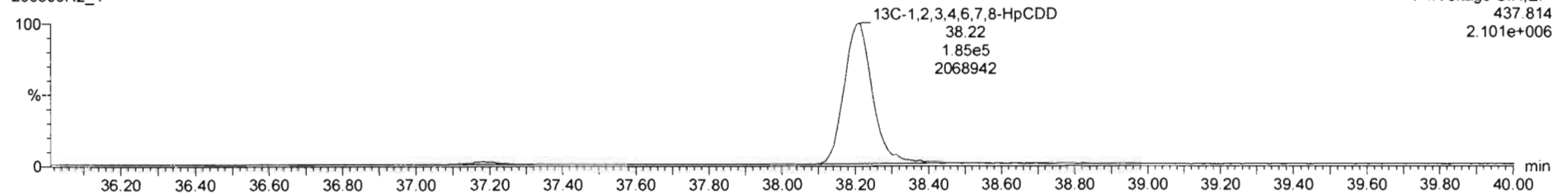


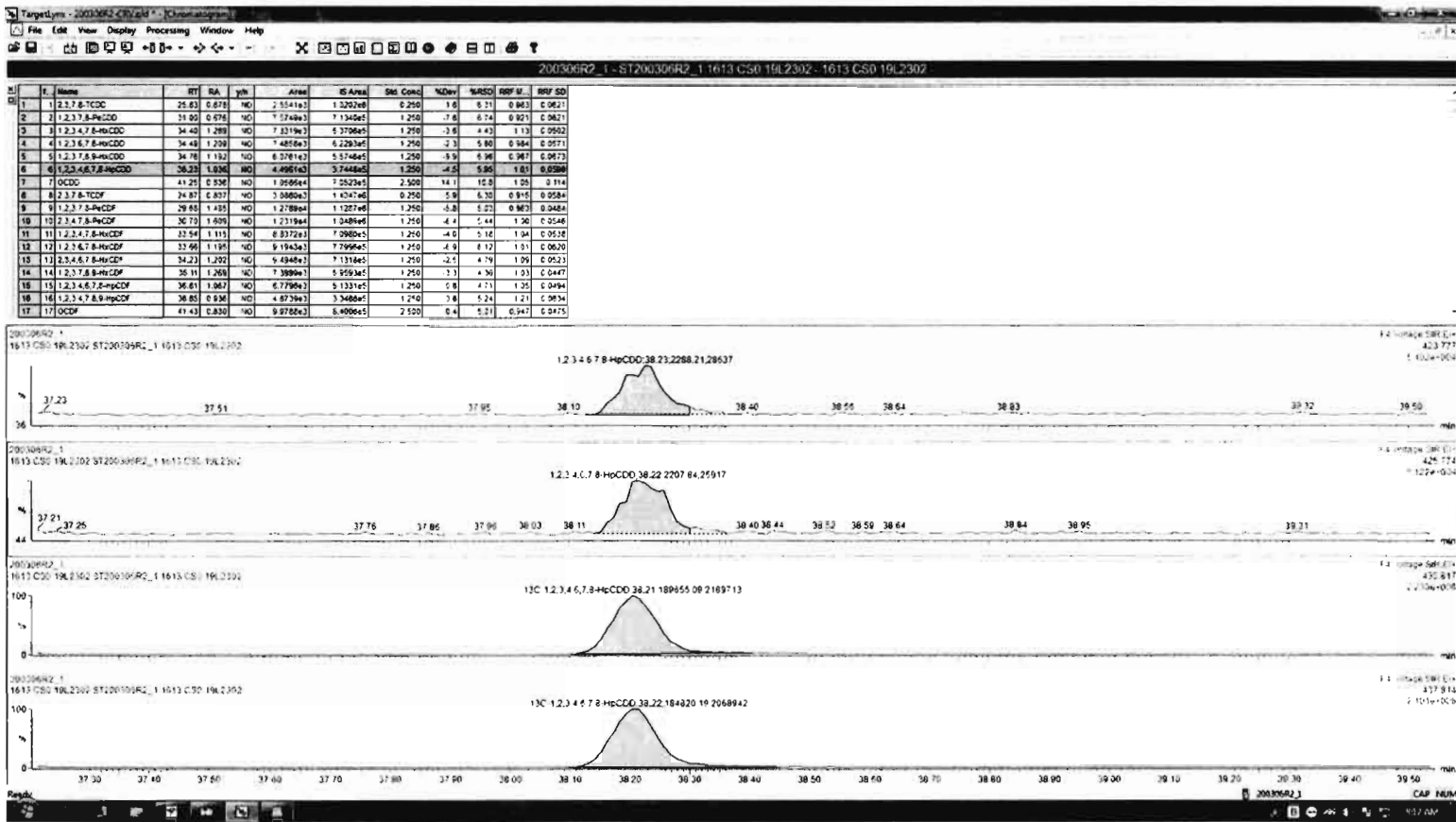
13C-1,2,3,4,6,7,8-HpCDD

200306R2_1



200306R2_1





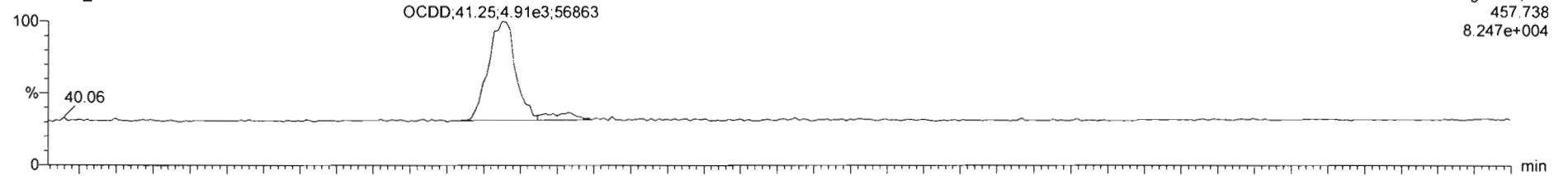
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

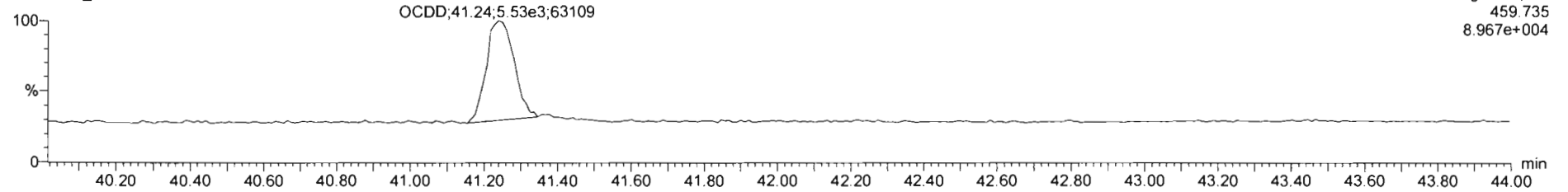
OCDD

200306R2_1



F5:Voltage SIR,EI+
457.738
8.247e+004

200306R2_1



F5:Voltage SIR,EI+
459.735
8.967e+004

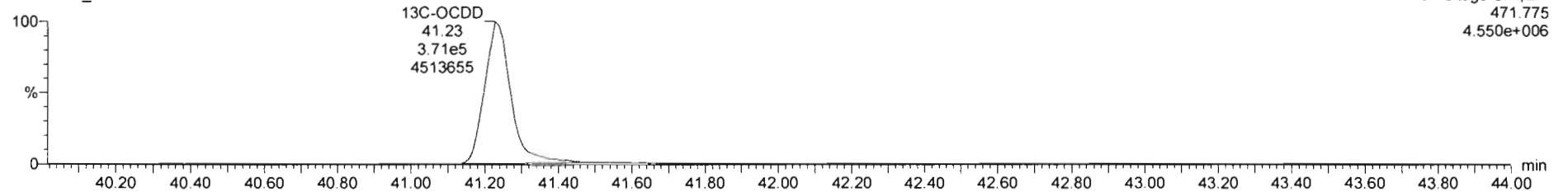
13C-OCDD

200306R2_1

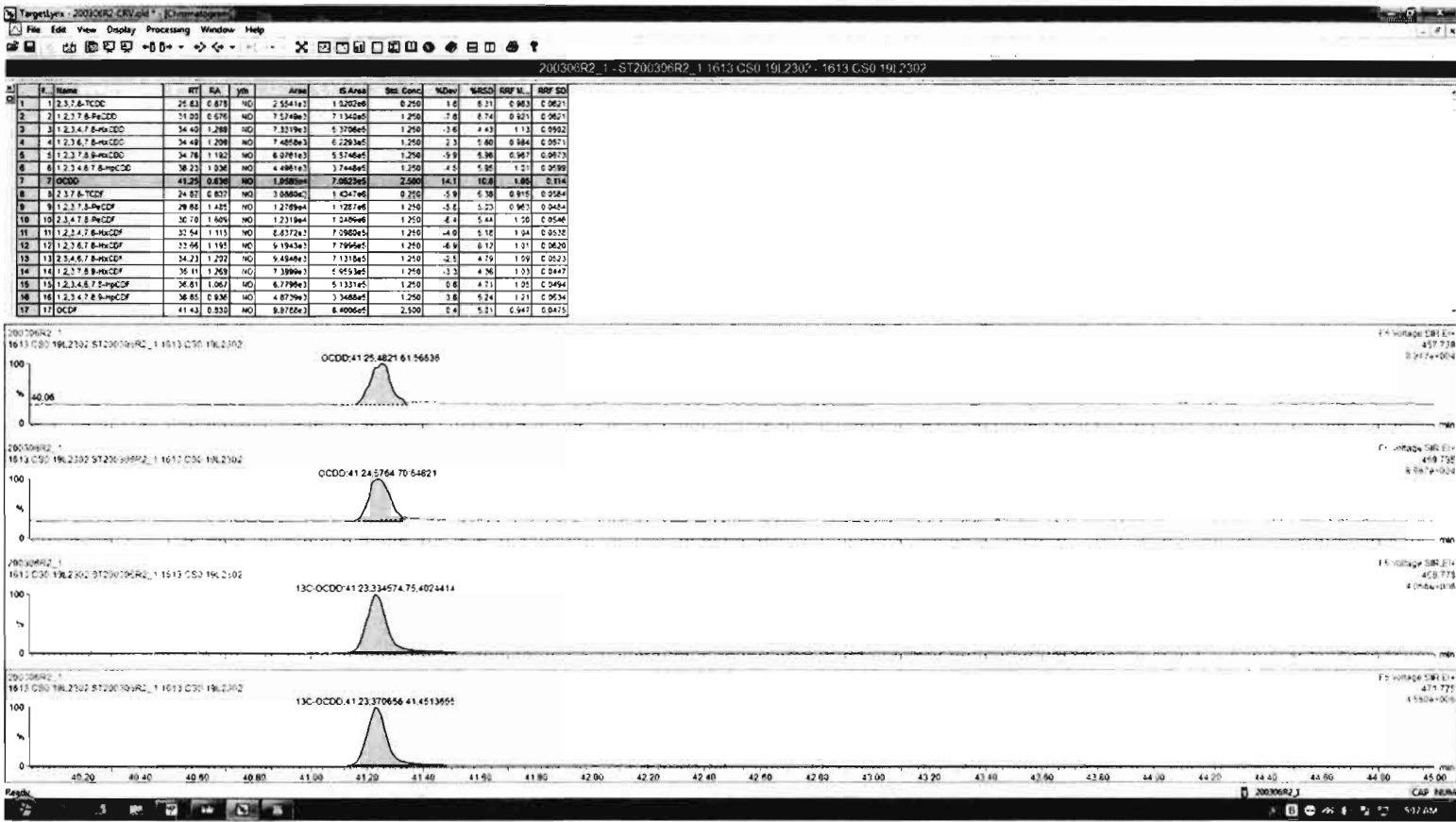


F5:Voltage SIR,EI+
469.778
4.056e+006

200306R2_1



F5:Voltage SIR,EI+
471.775
4.550e+006



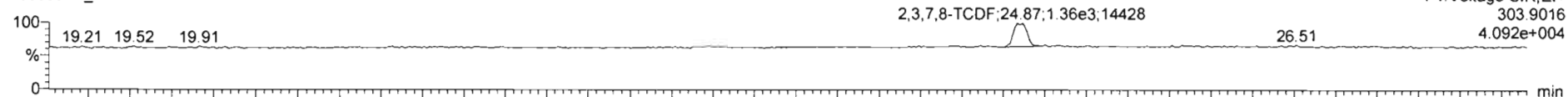
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

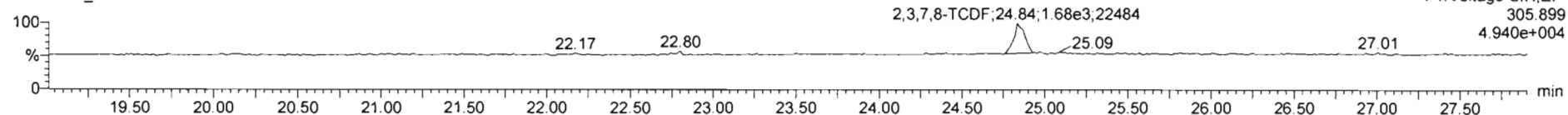
Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200306R2_1

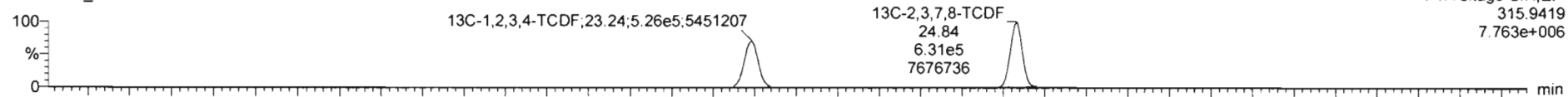


200306R2_1

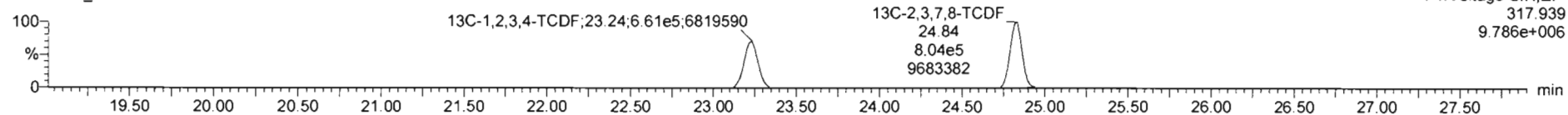


13C-2,3,7,8-TCDF

200306R2_1

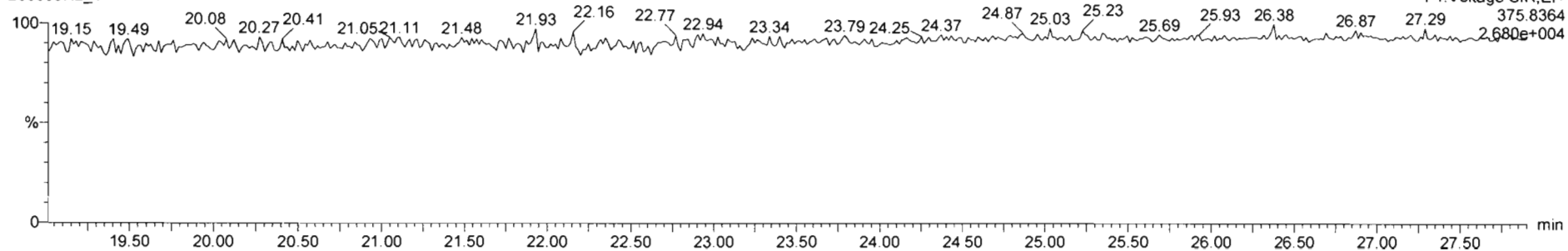


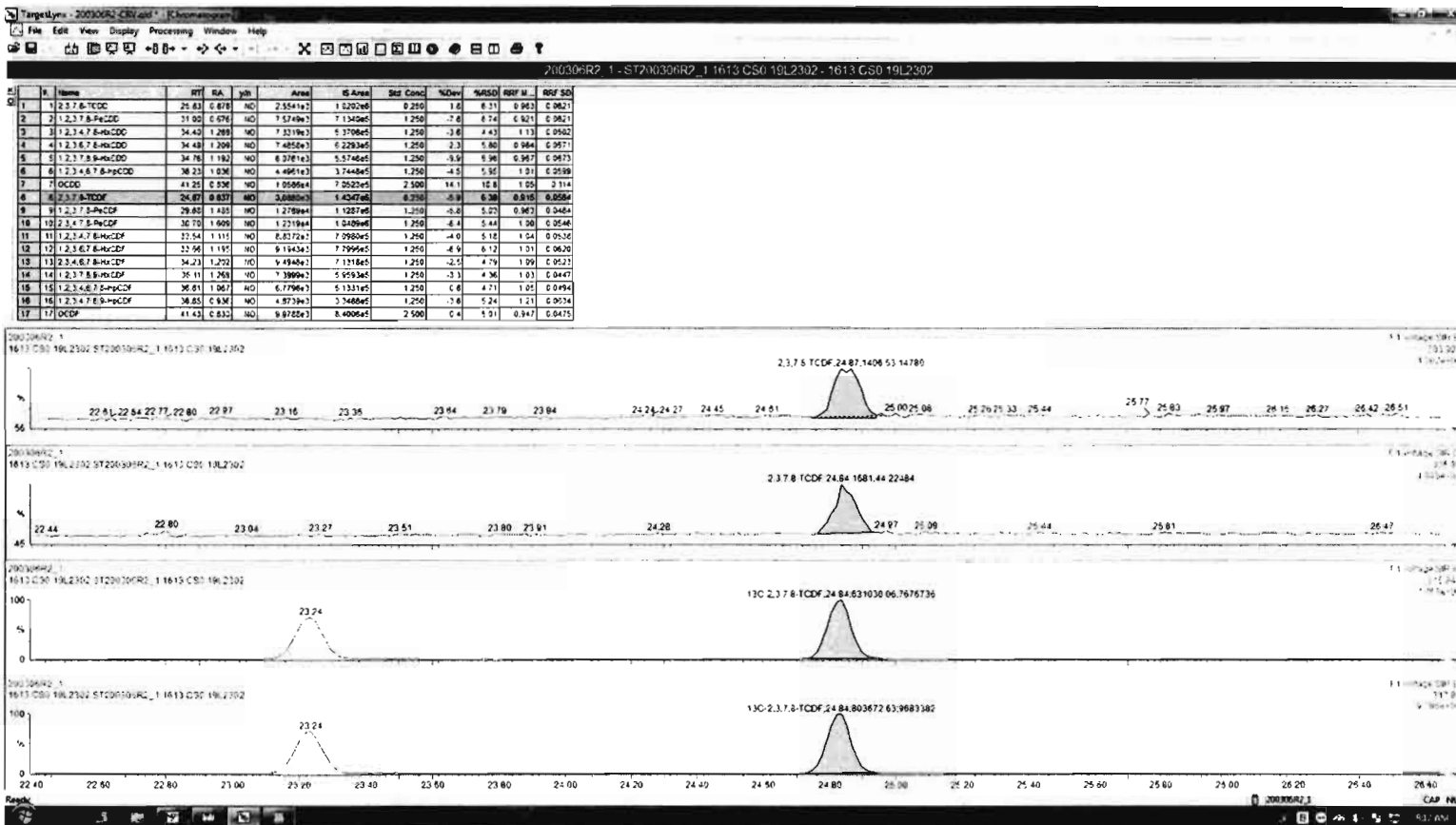
200306R2_1



DPE1

200306R2_1





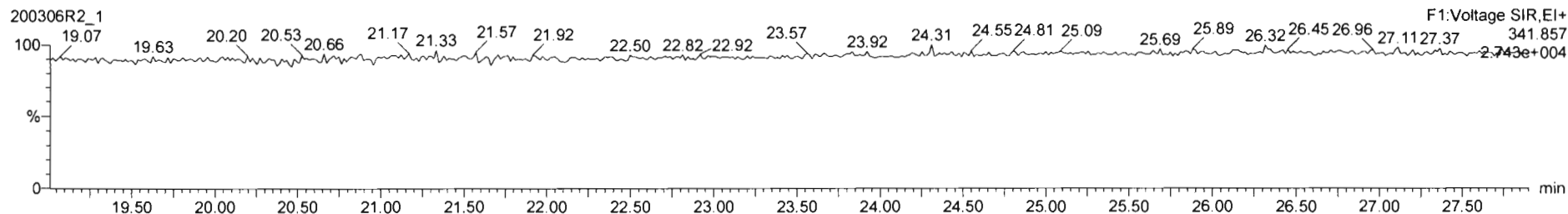
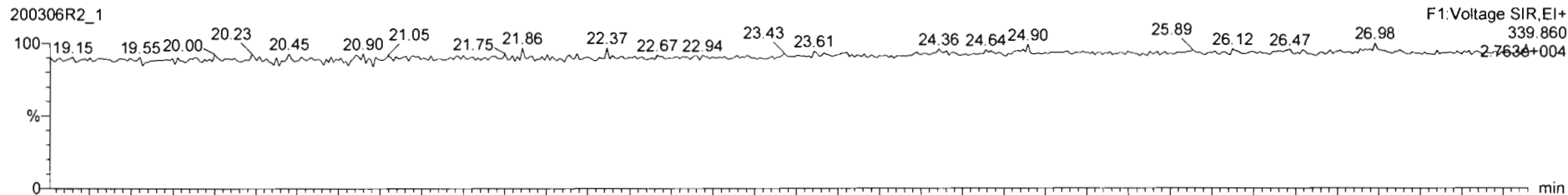
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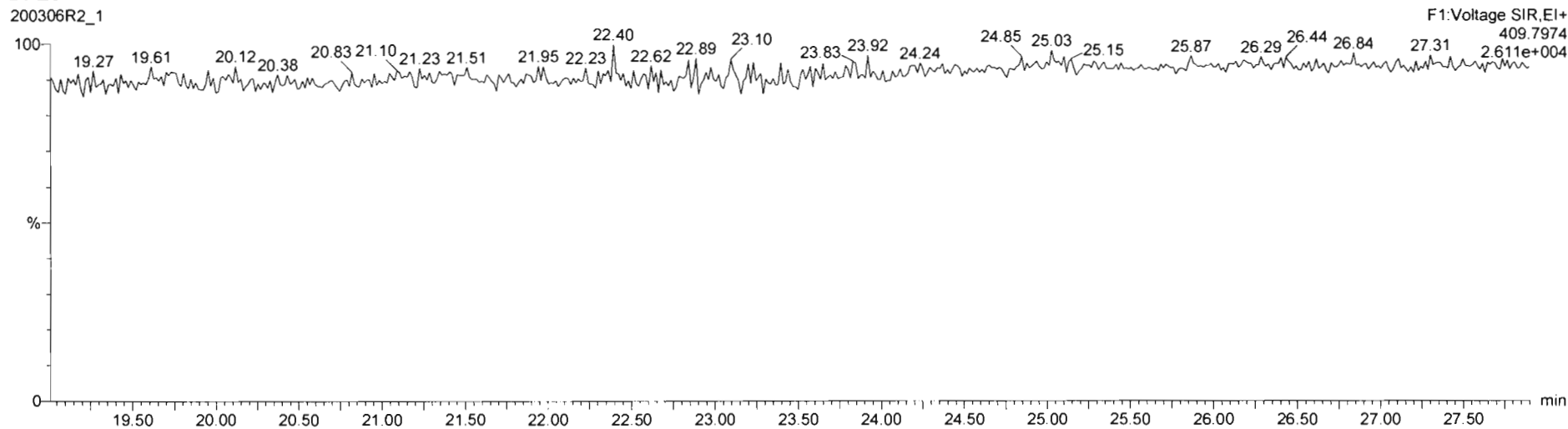
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Name: 200306R2_1, Date: 06-Mar-2020, Time: 13:08:38, ID: ST200306R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

1st Func. Penta-Furans



DPE6



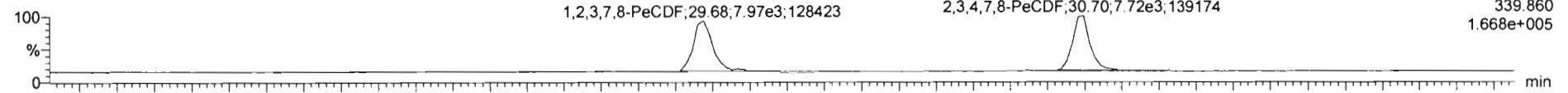
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

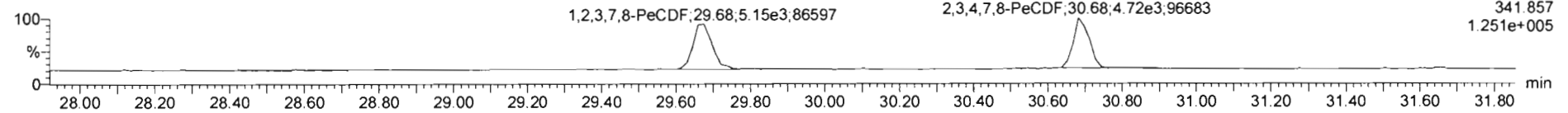
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1,2,3,7,8-PeCDF

200306R2_1

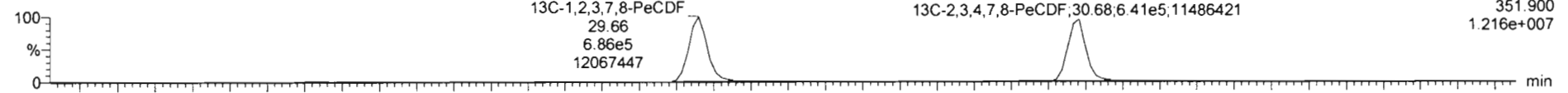


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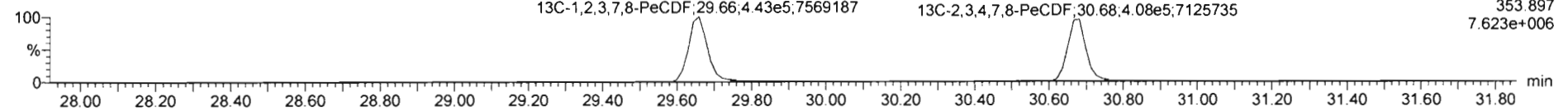


13C-1,2,3,7,8-PeCDF

200306R2_1

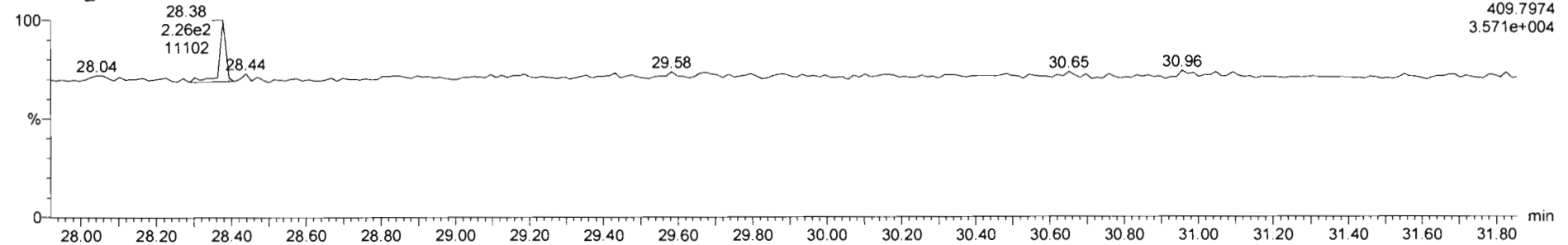


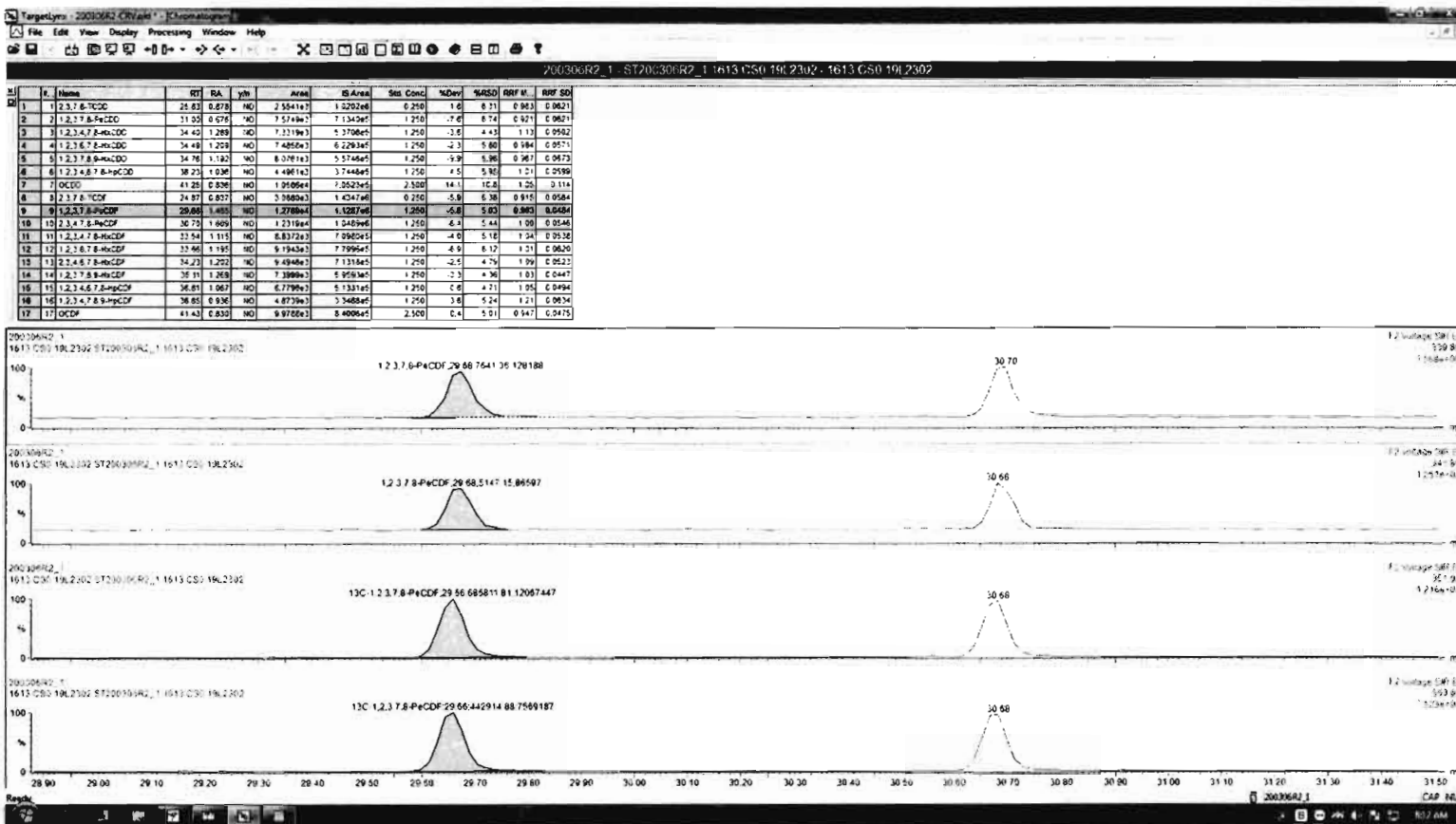
200306R2_1

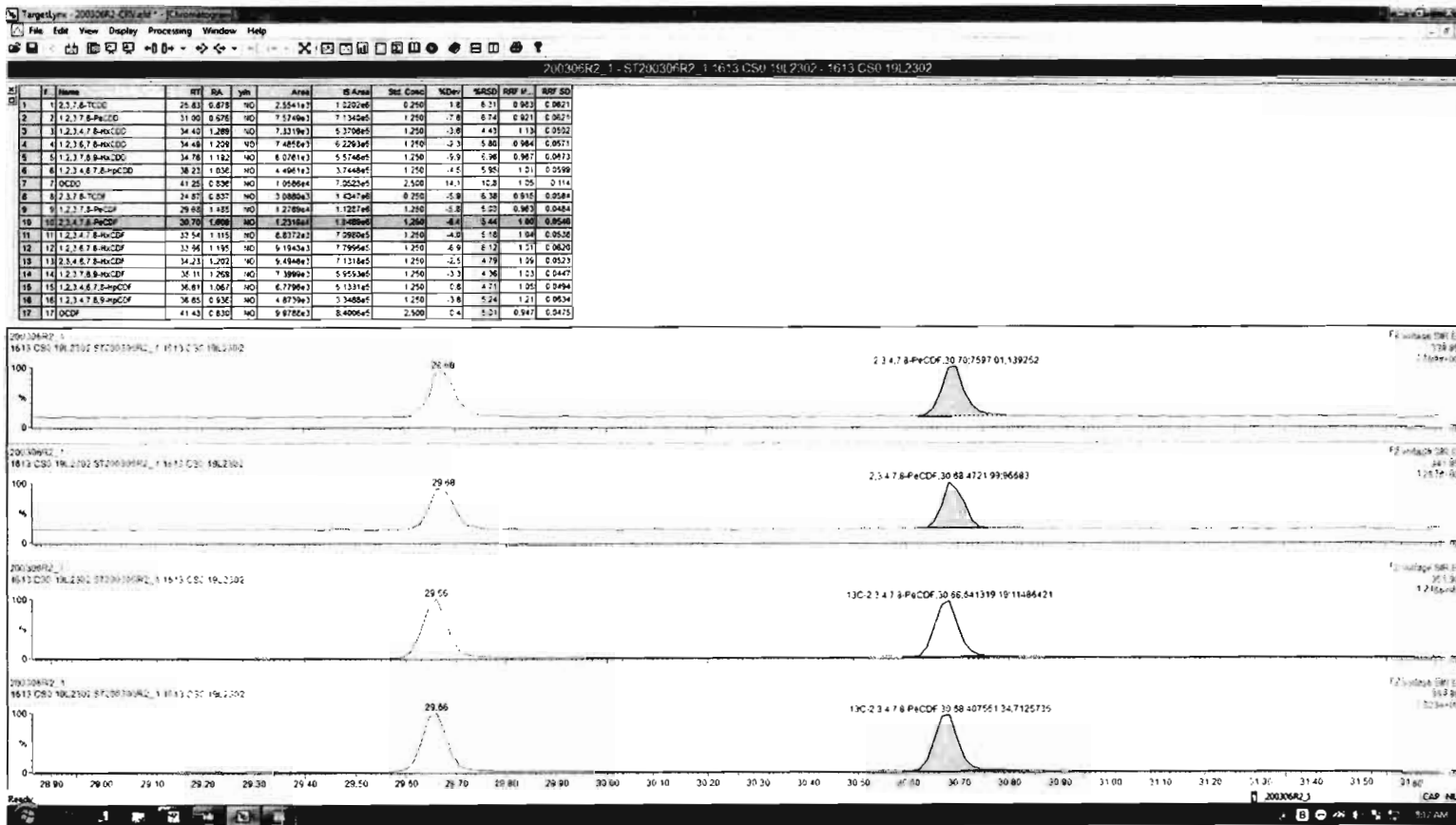


DPE2

200306R2_1







RT	DA	Yn	Area	IS Area	Std. Conc.	NDet	%RSD	RSP M.	RSP SD
1	25.83	NO	2.551e7	1.2202e8	0.250	1.8	6.31	0.983	0.0821
2	31.00	NO	7.5749e3	7.1342e5	1.250	-7.8	0.74	0.821	0.0621
3	34.40	NO	7.3319e3	5.3708e5	1.250	-3.8	1.43	1.13	0.0552
4	34.48	NO	7.4854e3	6.2263e5	1.250	-3.3	5.80	0.964	0.0571
5	34.78	NO	8.0761e3	5.5746e5	1.250	-5.9	0.96	0.967	0.0573
6	38.23	NO	4.4861e3	3.7448e5	1.250	-4.5	5.95	1.21	0.0599
7	41.25	NO	1.0506e4	7.2527e5	2.500	14.1	12.3	1.55	0.114
8	24.87	NO	3.0885e3	1.4247e5	0.250	-5.8	6.38	0.915	0.0584
9	29.60	NO	1.2789e4	1.1227e6	1.250	-5.8	5.23	0.963	0.0484
10	30.70	NO	1.2518e4	1.3488e6	1.250	-8.4	3.44	1.80	0.0548
11	32.54	NO	8.8372e3	7.2880e5	1.250	-4.0	5.18	1.04	0.0538
12	32.94	NO	9.1843e3	7.7999e5	1.250	-4.9	6.13	1.31	0.0620
13	34.23	NO	9.4846e3	7.1318e5	1.250	-2.5	4.79	1.59	0.0523
14	35.11	NO	7.3896e3	5.9553e5	1.250	-3.3	4.36	1.53	0.0447
15	36.81	NO	6.7796e3	5.1331e5	1.250	0.6	4.71	1.05	0.0494
16	36.85	NO	4.8739e3	3.3488e5	1.250	-3.8	5.24	1.21	0.0634
17	41.43	NO	9.8786e3	8.4006e5	2.500	0.4	5.21	0.947	0.0475

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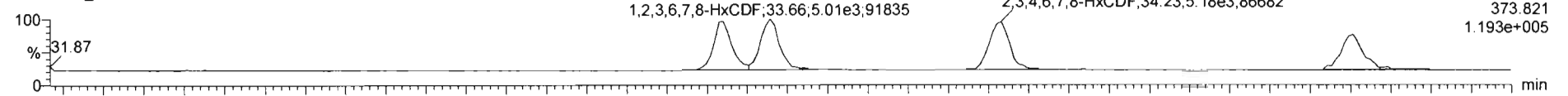
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

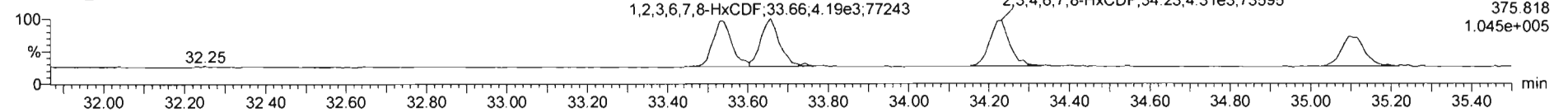
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1,2,3,4,7,8-HxCDF

200306R2_1

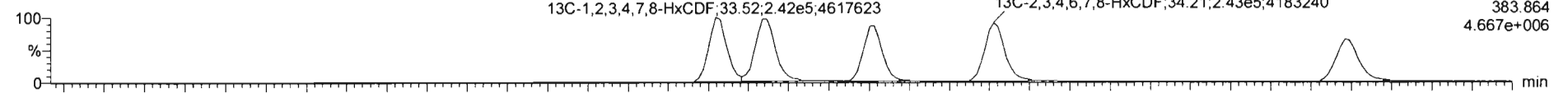


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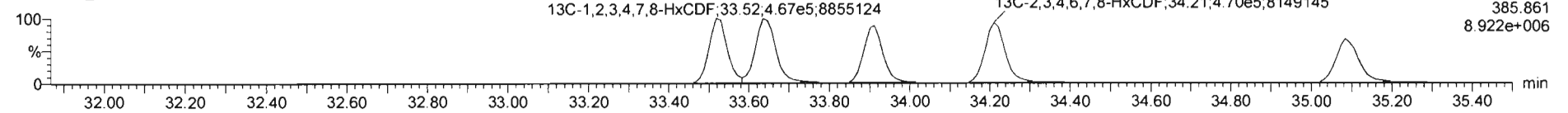


13C-1,2,3,4,7,8-HxCDF

200306R2_1

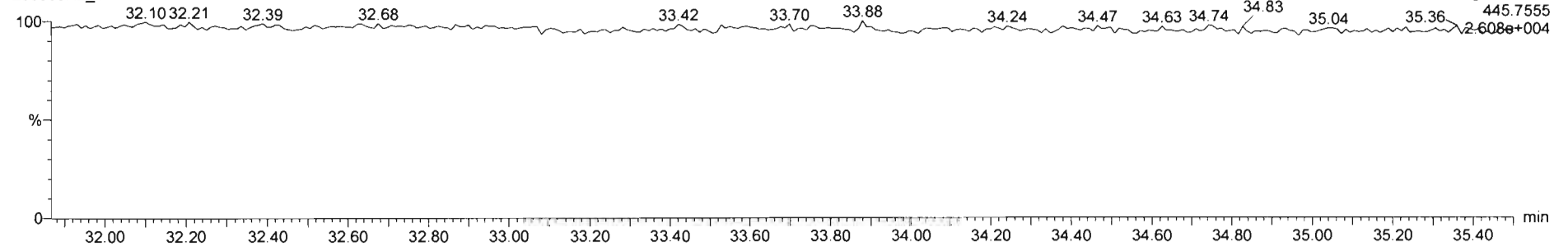


200306R2_1



DPE3

200306R2_1



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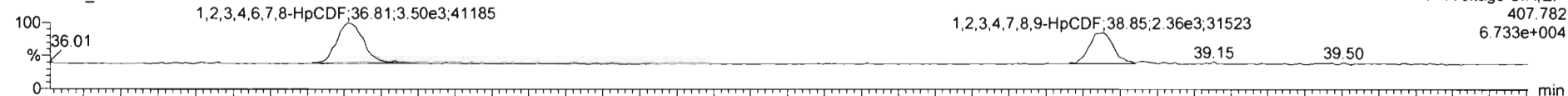
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

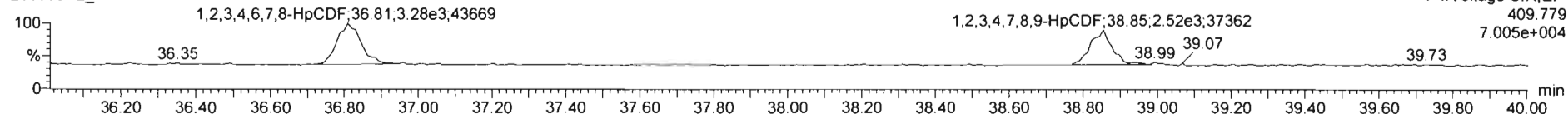
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1,2,3,4,6,7,8-HpCDF

200306R2_1

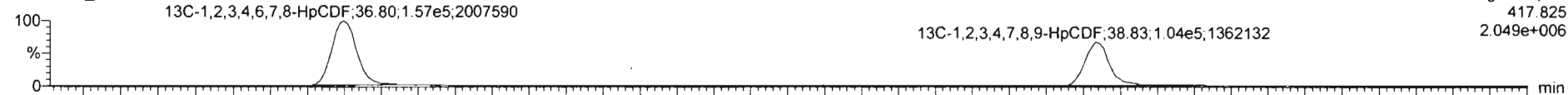


200306R2_1

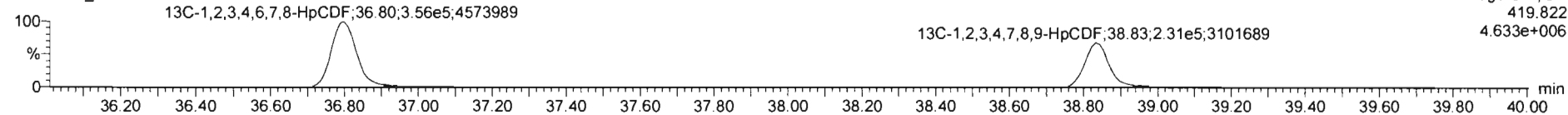


13C-1,2,3,4,6,7,8-HpCDF

200306R2_1

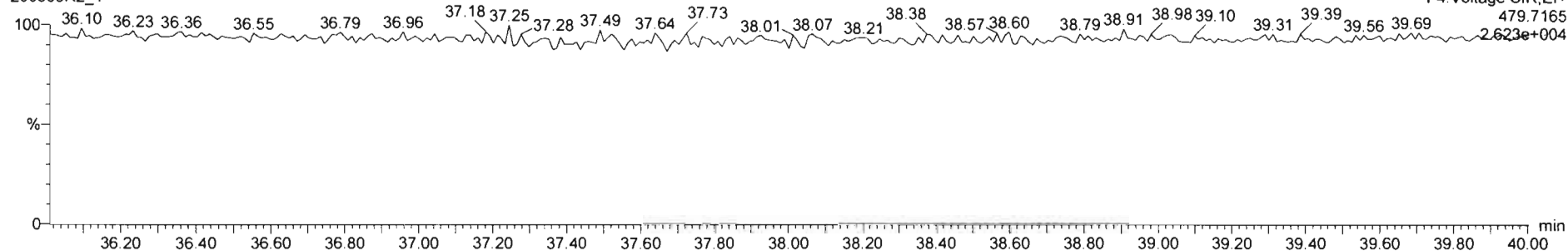


200306R2_1



DPE4

200306R2_1

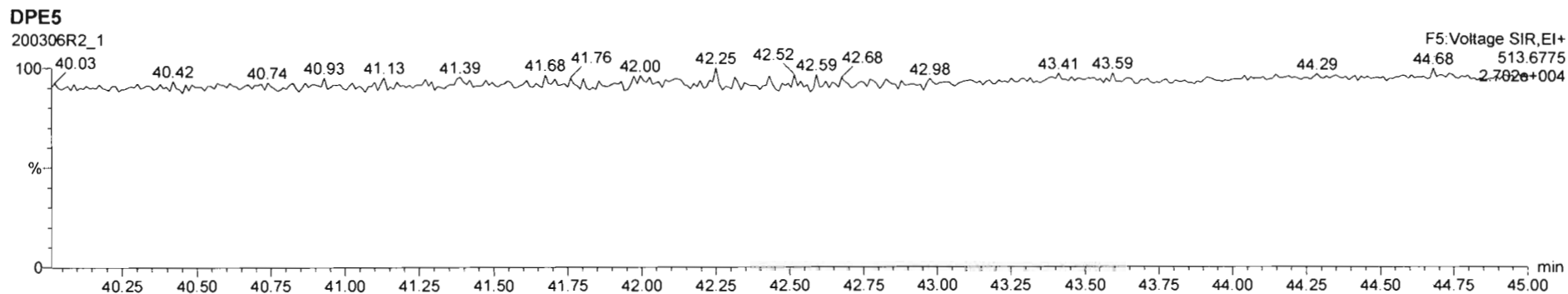
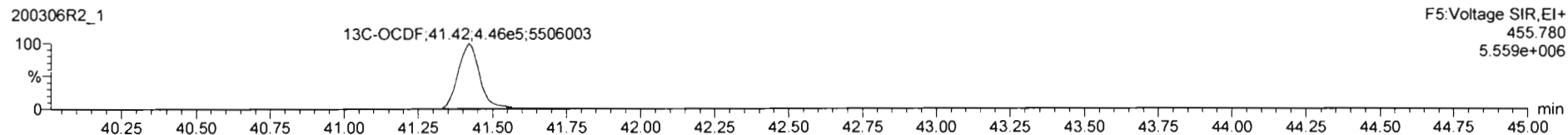
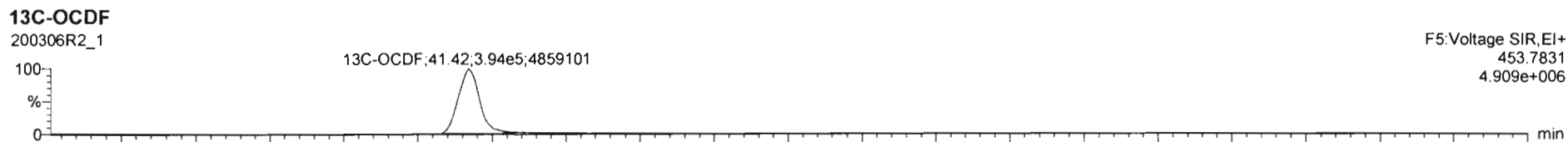
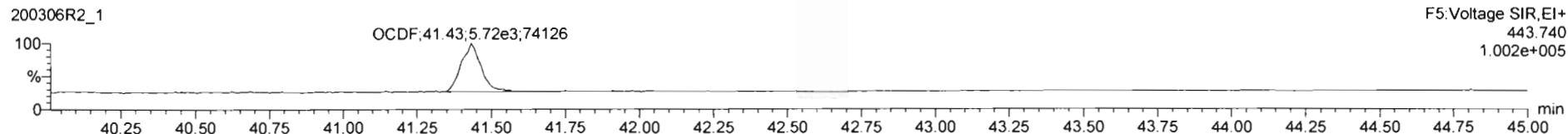
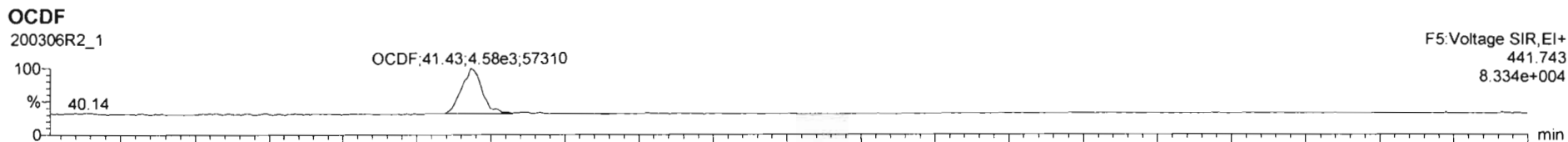


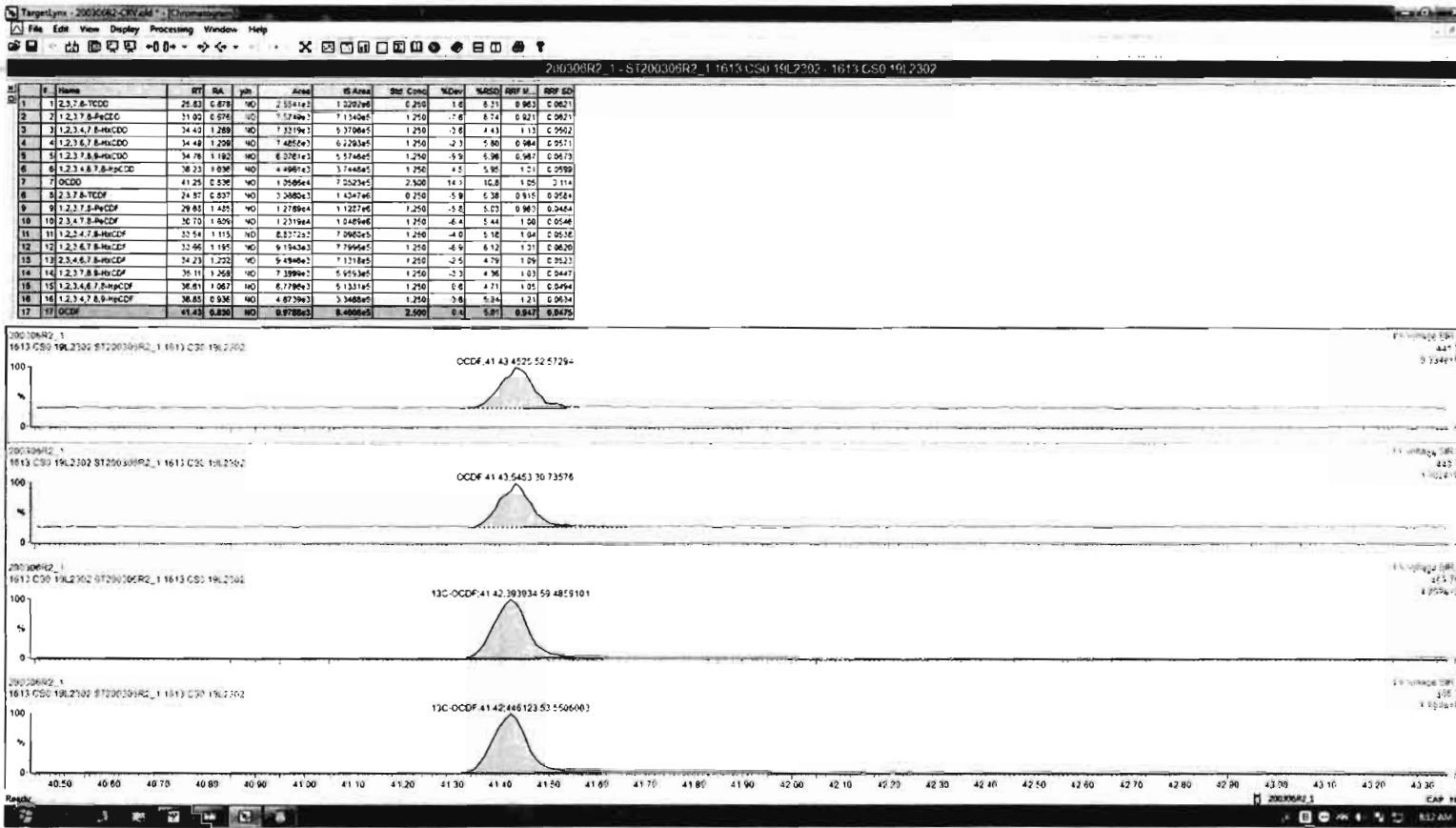
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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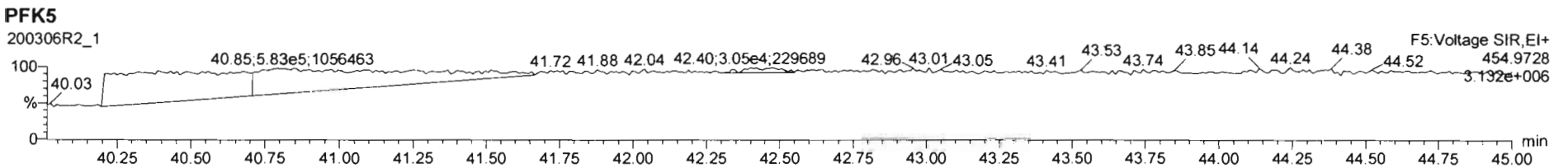
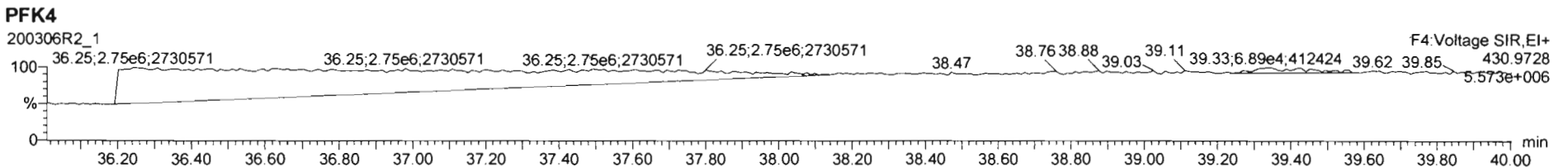
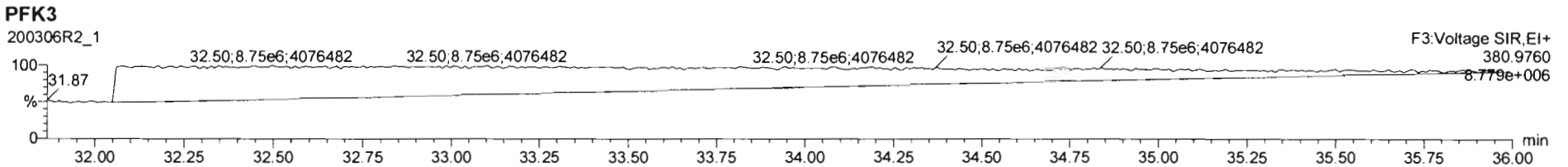
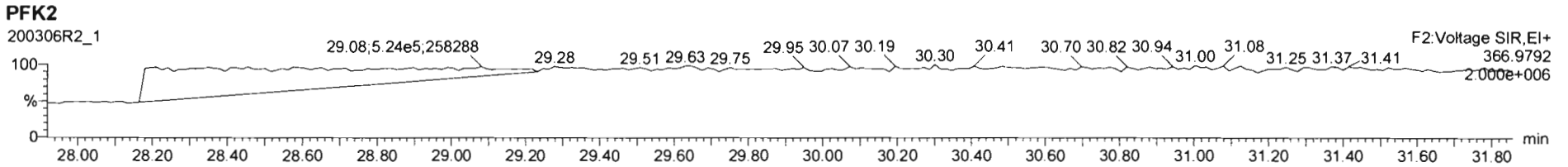
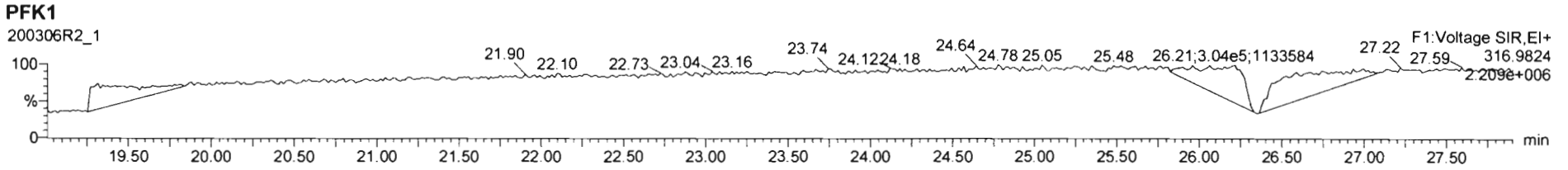




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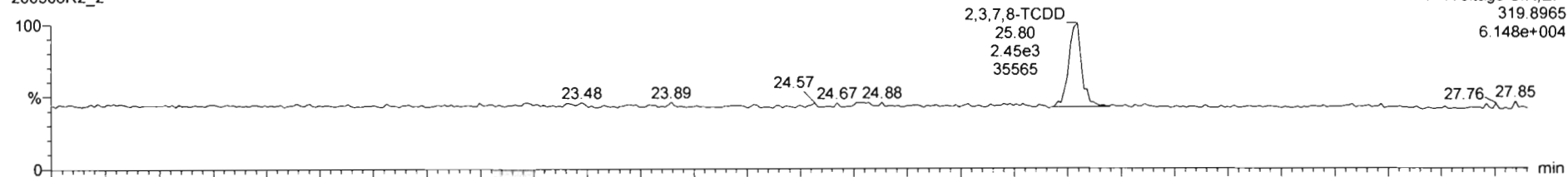
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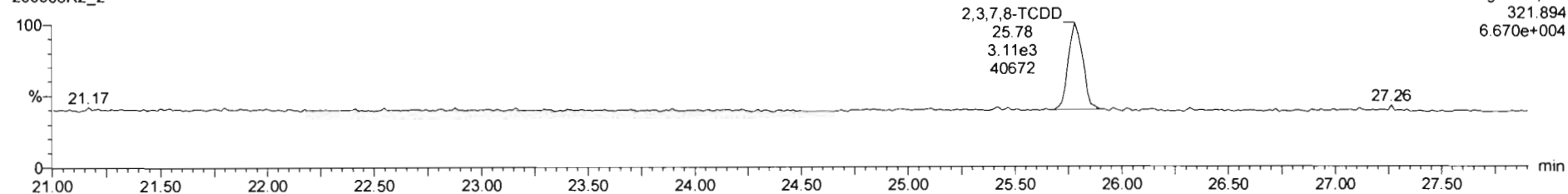
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2,3,7,8-TCDD

200306R2_2

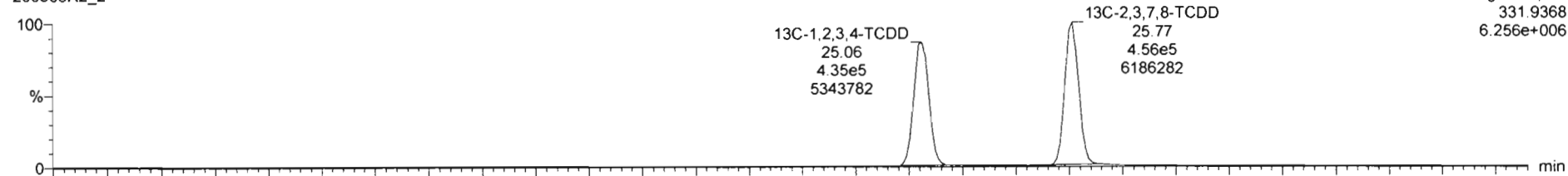


200306R2_2

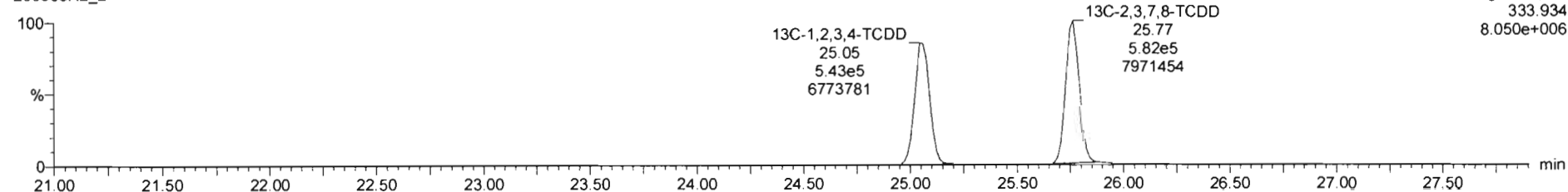


13C-2,3,7,8-TCDD

200306R2_2



200306R2_2



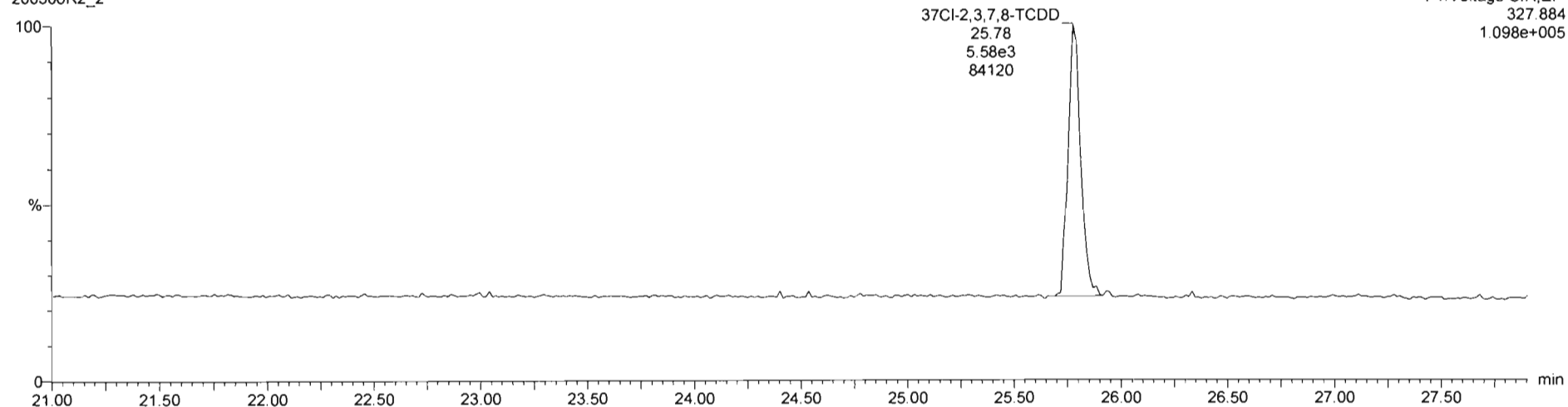
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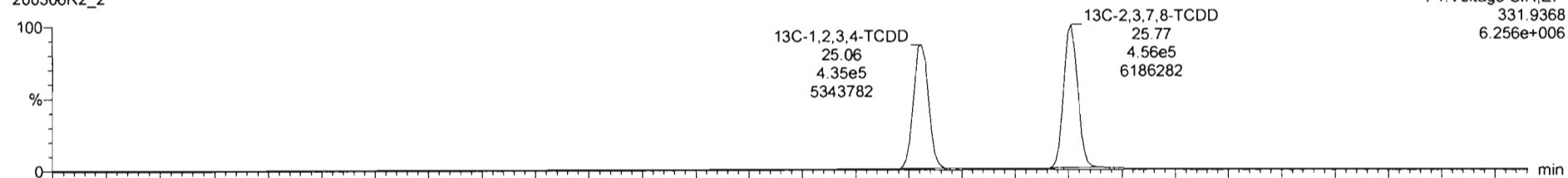
37Cl-2,3,7,8-TCDD

200306R2_2

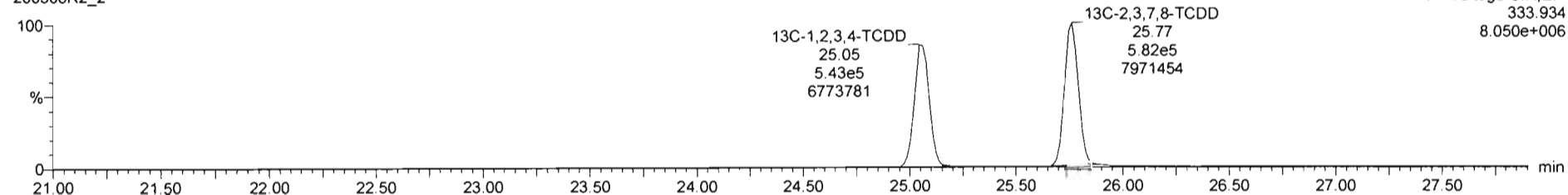


13C-1,2,3,4-TCDD

200306R2_2



200306R2_2



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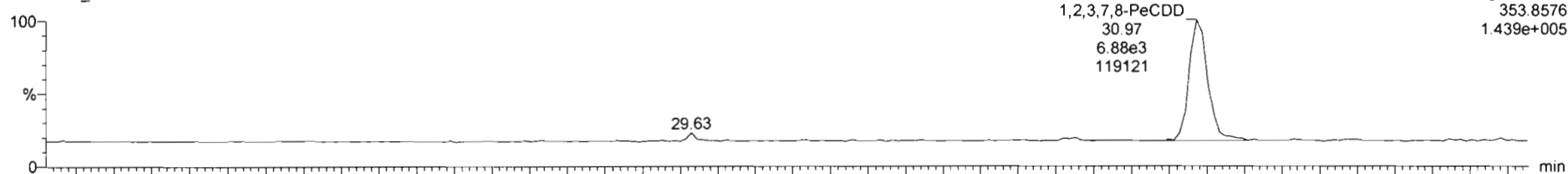
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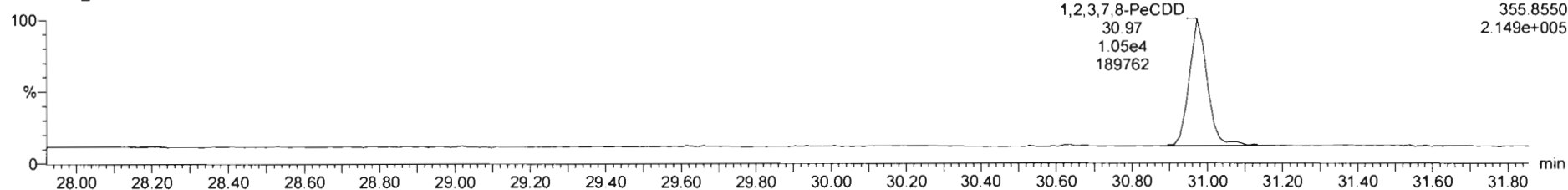
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1,2,3,7,8-PeCDD

200306R2_2

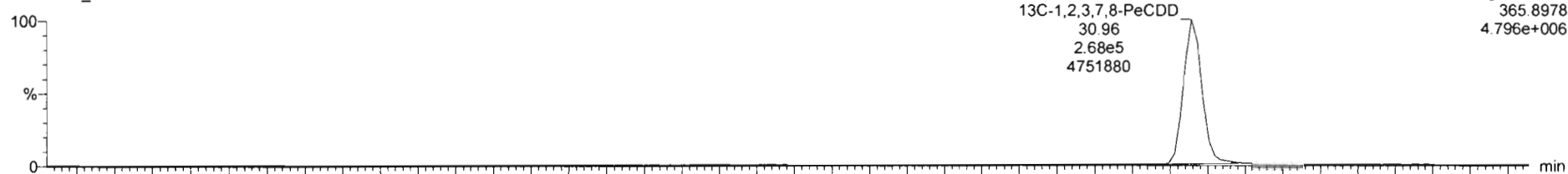


200306R2_2

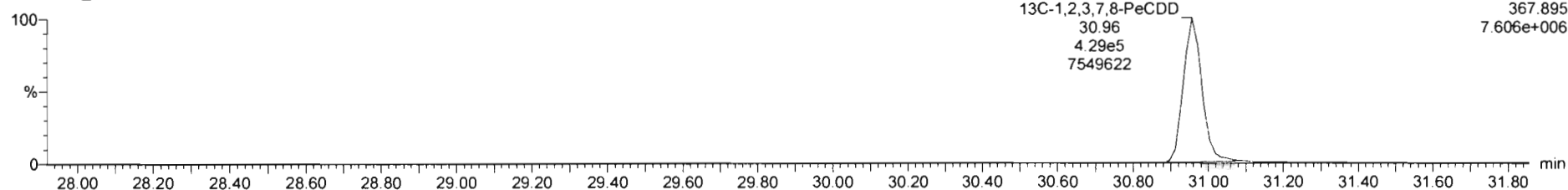


13C-1,2,3,7,8-PeCDD

200306R2_2



200306R2_2



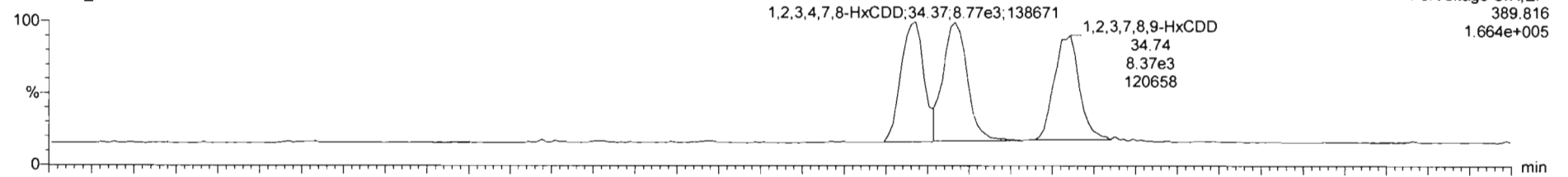
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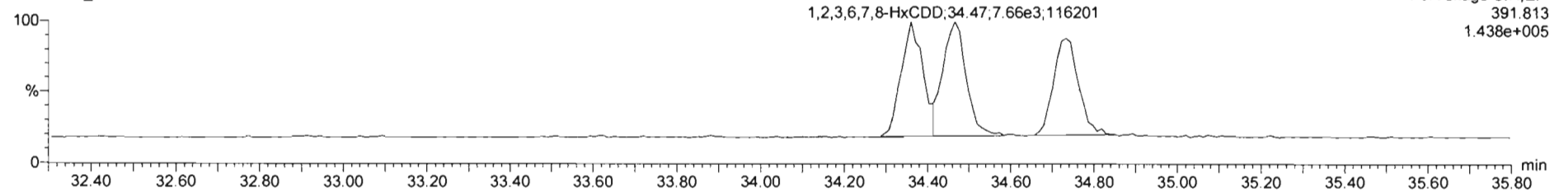
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1,2,3,4,7,8-HxCDD

200306R2_2

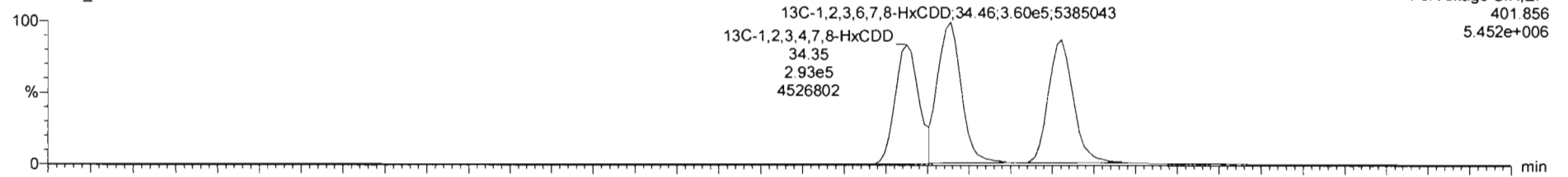


200306R2_2

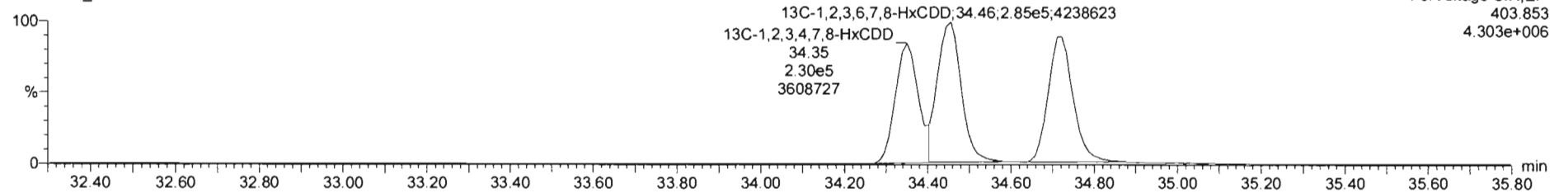


13C-1,2,3,4,7,8-HxCDD

200306R2_2



200306R2_2



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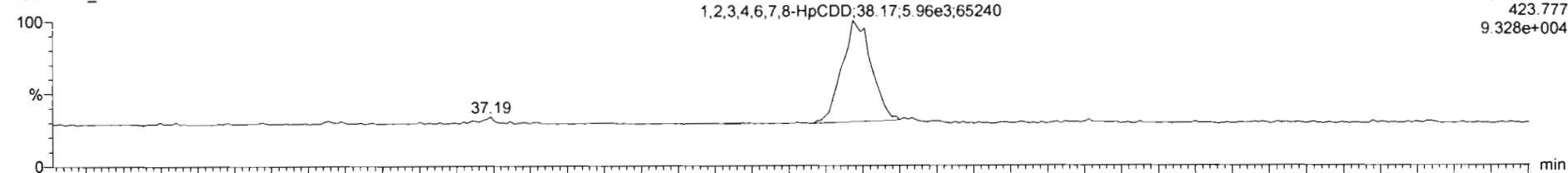
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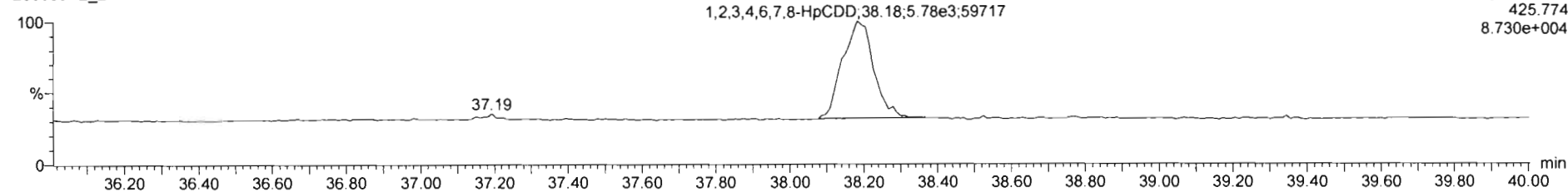
1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
423.777
9.328e+004

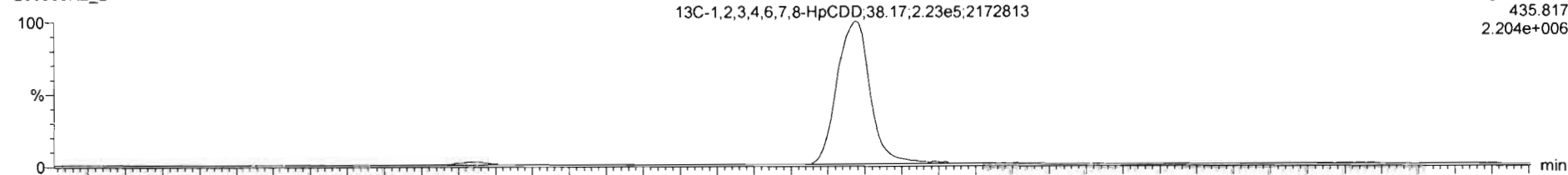
200306R2_2



F4: Voltage SIR, EI+
425.774
8.730e+004

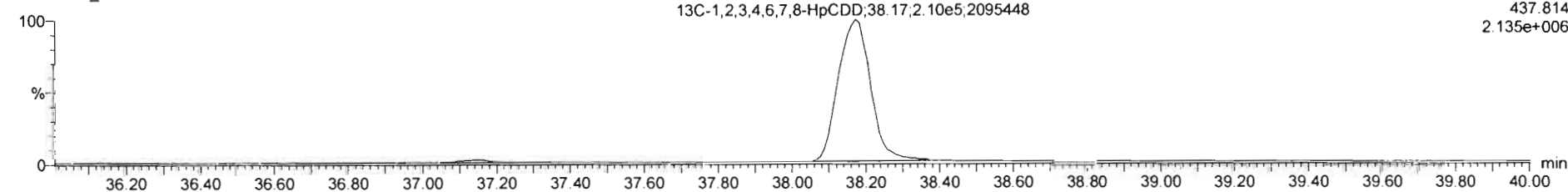
13C-1,2,3,4,6,7,8-HpCDD

200306R2_2



F4: Voltage SIR, EI+
435.817
2.204e+006

200306R2_2



F4: Voltage SIR, EI+
437.814
2.135e+006

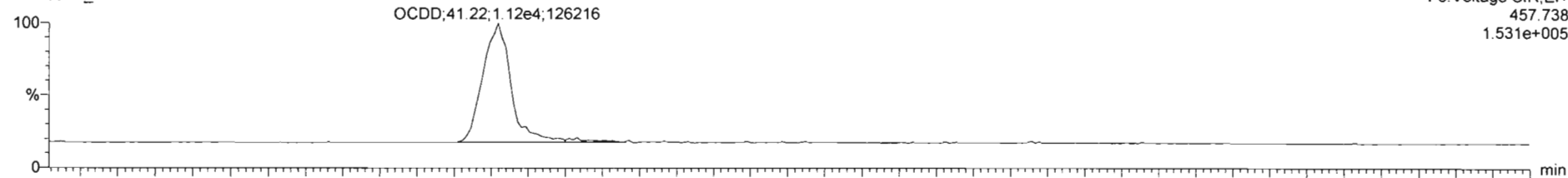
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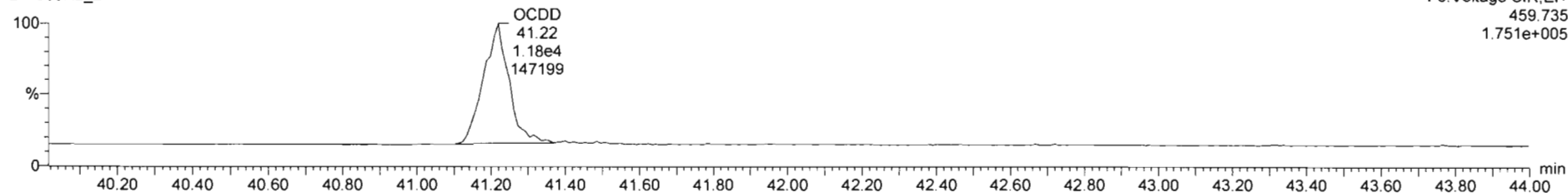
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OCDD

200306R2_2

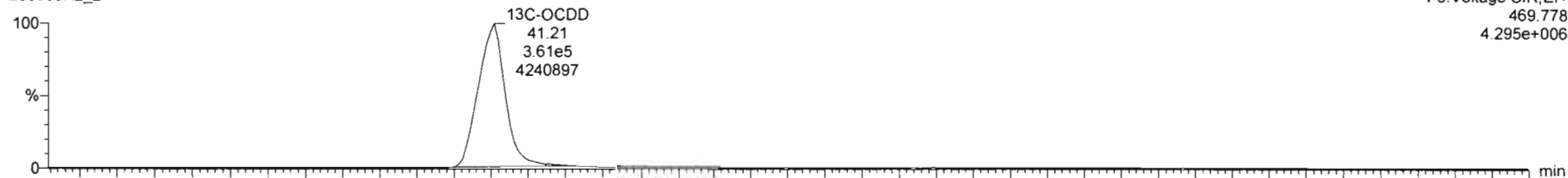


200306R2_2

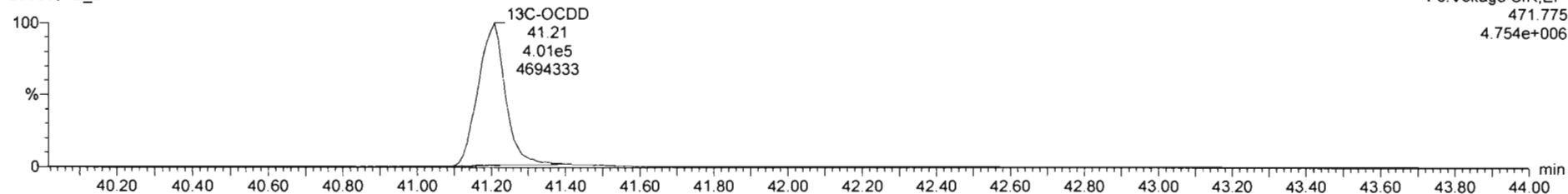


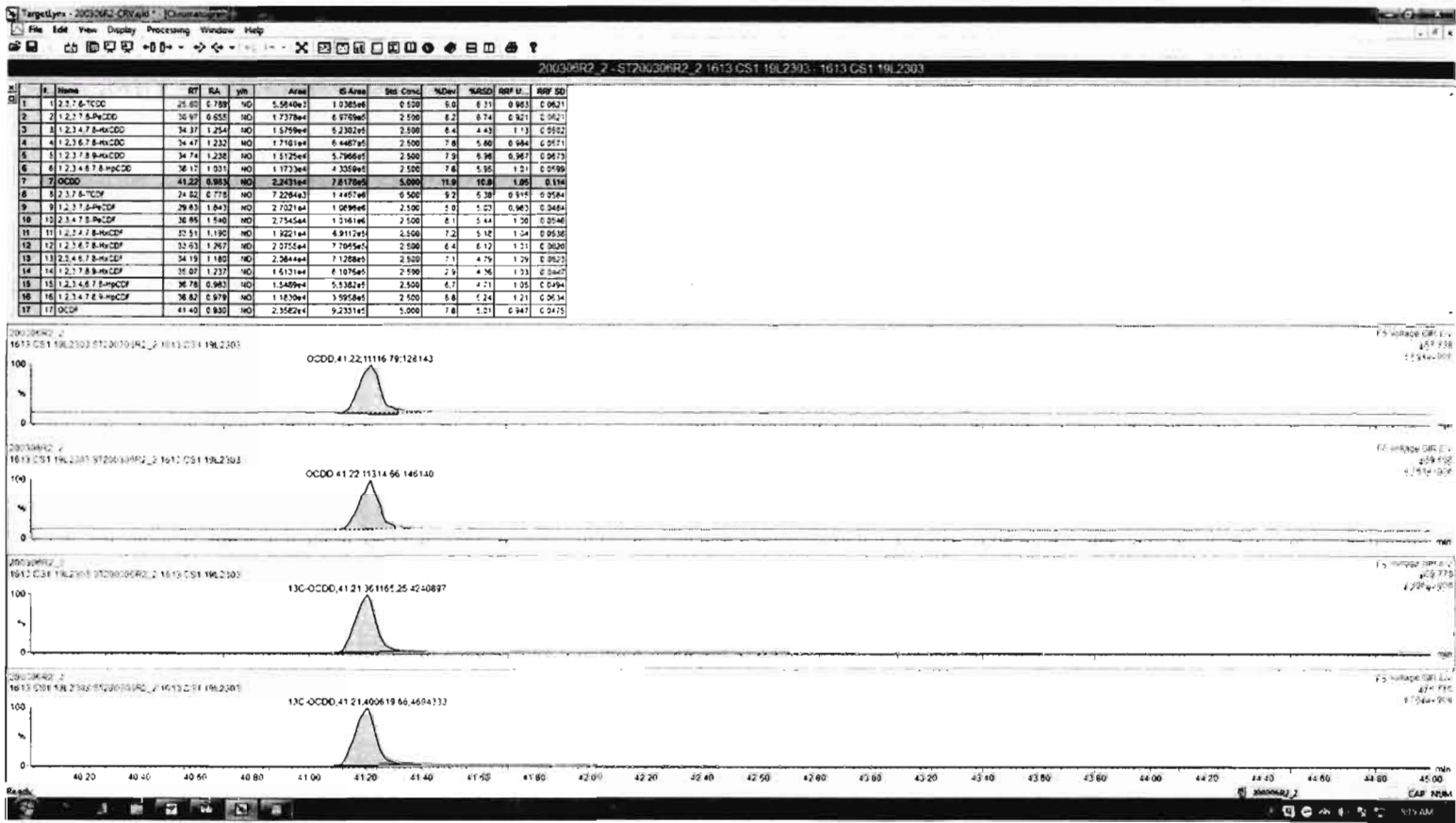
13C-OCDD

200306R2_2



200306R2_2





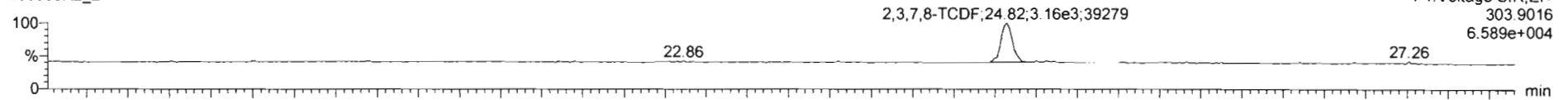
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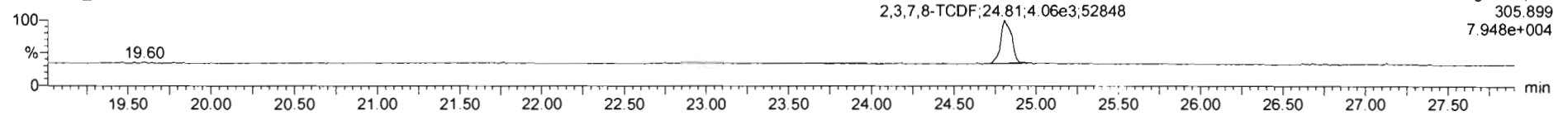
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2,3,7,8-TCDF

200306R2_2

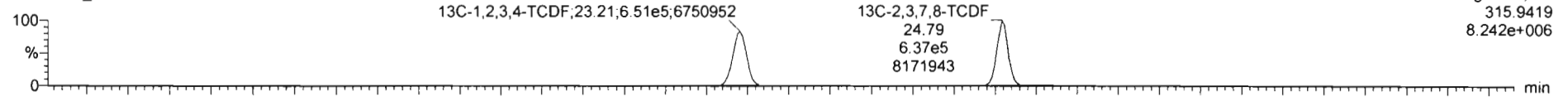


200306R2_2

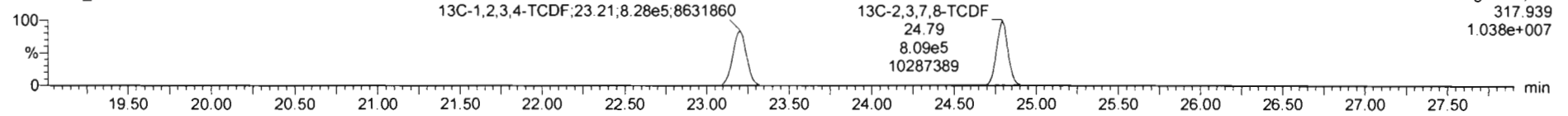


13C-2,3,7,8-TCDF

200306R2_2

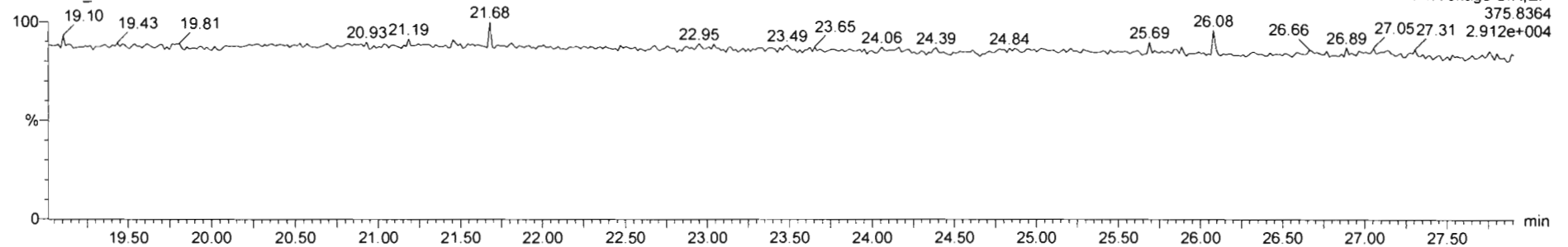


200306R2_2



DPE1

200306R2_2



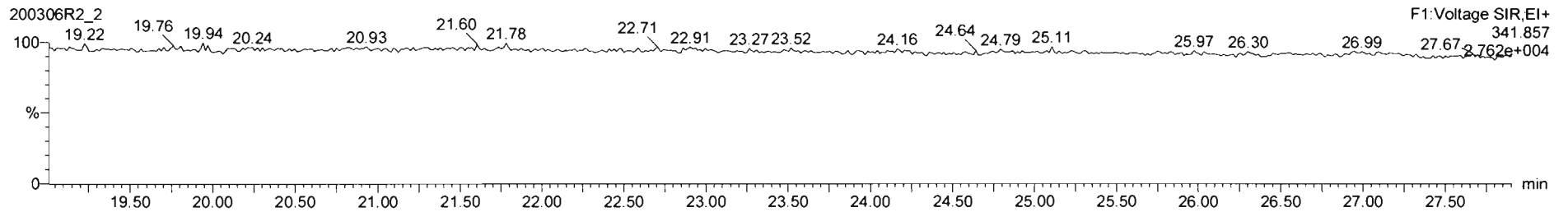
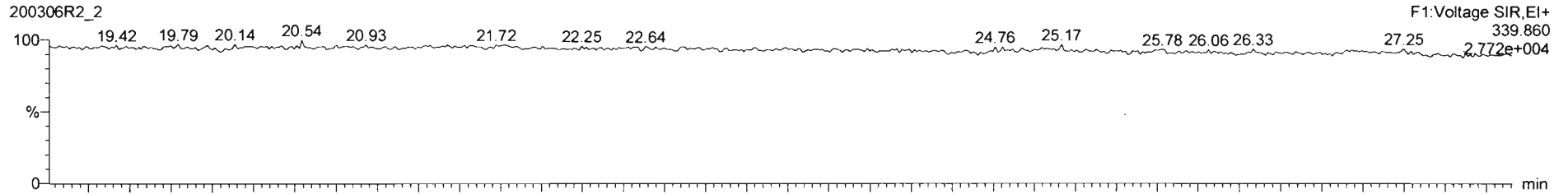
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

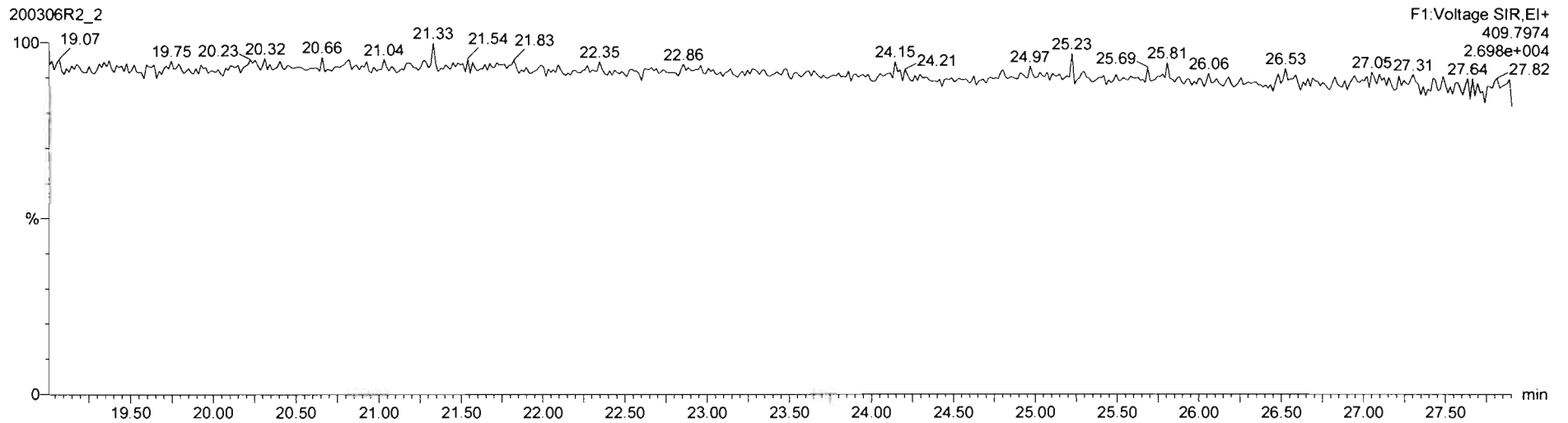
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

1st Func. Penta-Furans



DPE6



Dataset: Untitled

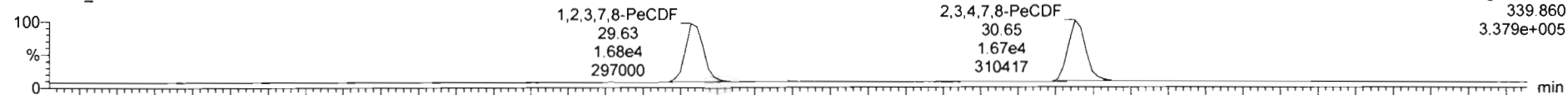
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

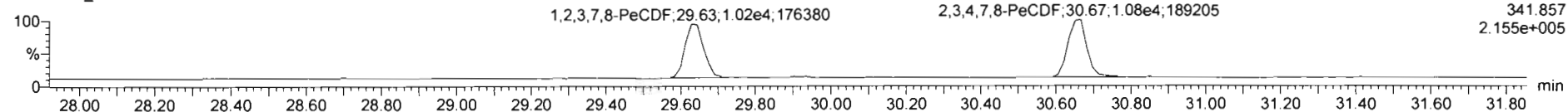
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1,2,3,7,8-PeCDF

200306R2_2

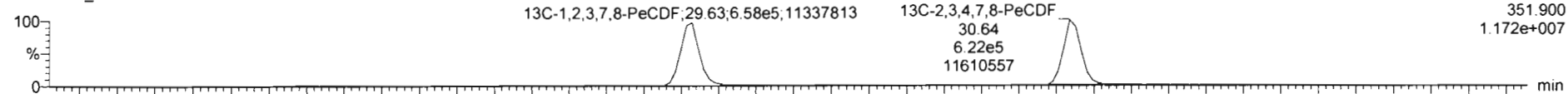


200306R2_2

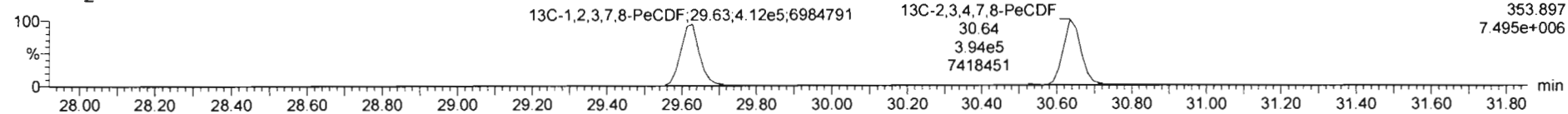


13C-1,2,3,7,8-PeCDF

200306R2_2

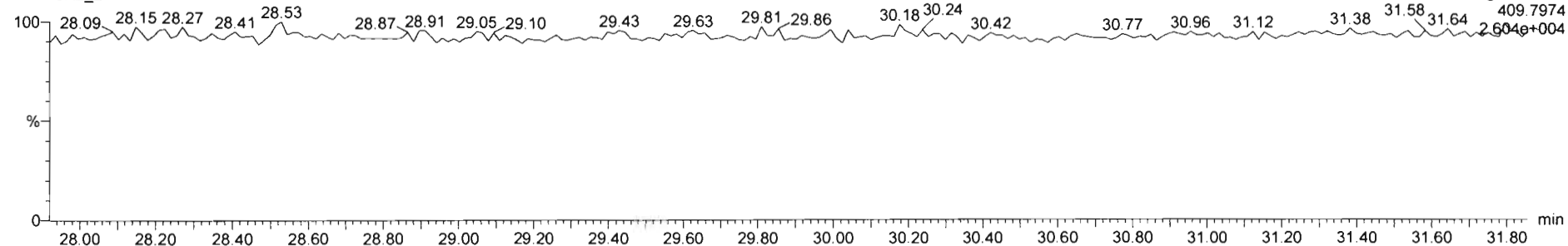


200306R2_2



DPE2

200306R2_2



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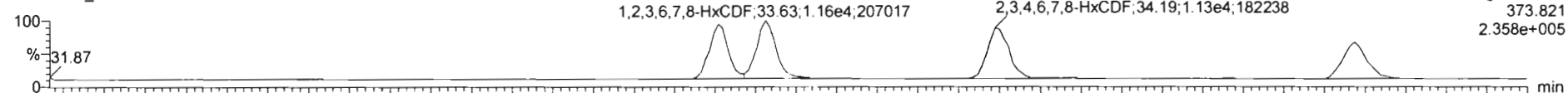
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

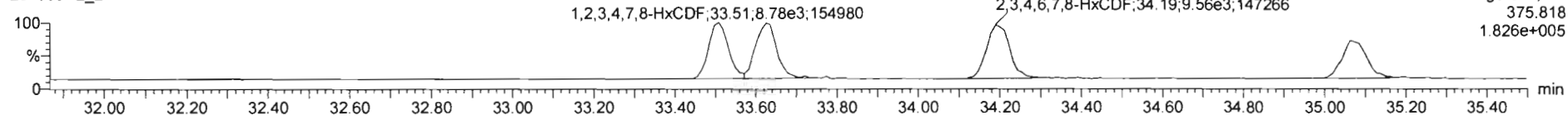
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1,2,3,4,7,8-HxCDF

200306R2_2

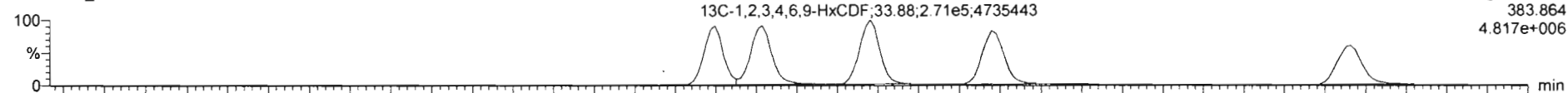


200306R2_2

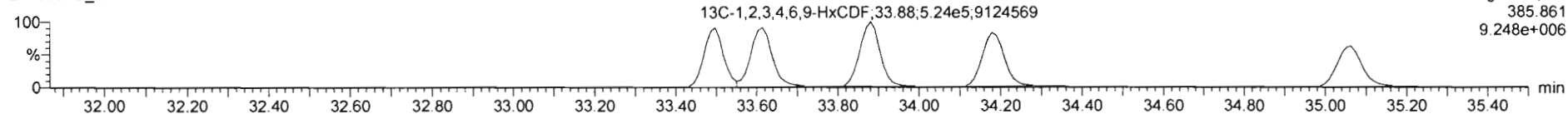


13C-1,2,3,4,7,8-HxCDF

200306R2_2

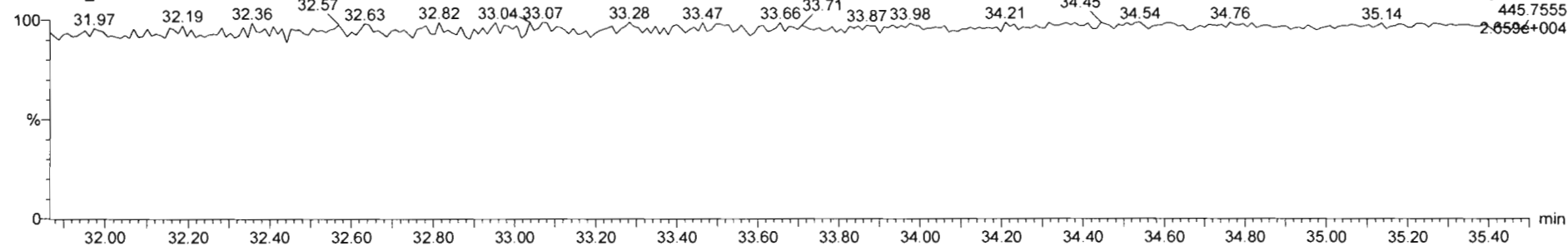


200306R2_2



DPE3

200306R2_2



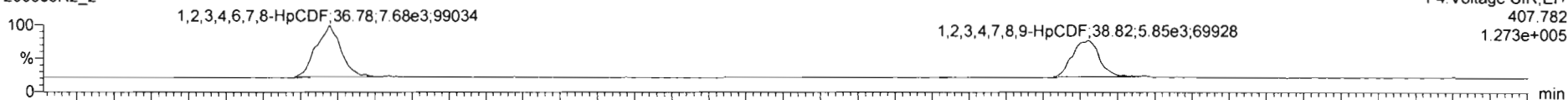
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

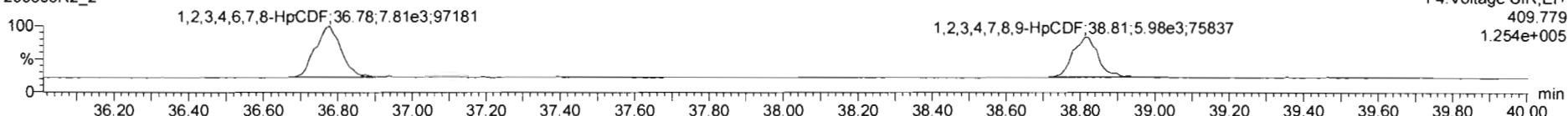
1,2,3,4,6,7,8-HpCDF

200306R2_2



F4: Voltage SIR, EI+
407.782
1.273e+005

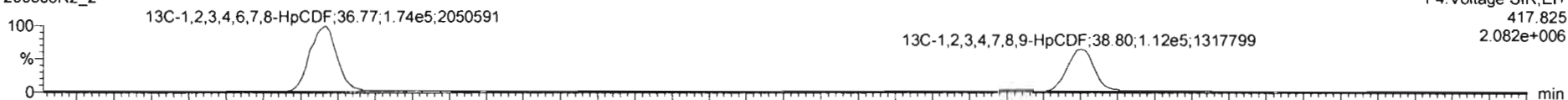
200306R2_2



F4: Voltage SIR, EI+
409.779
1.254e+005

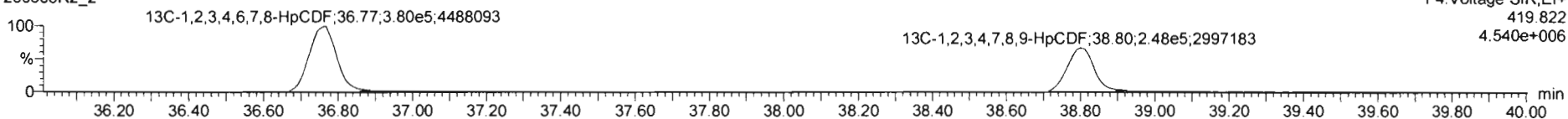
13C-1,2,3,4,6,7,8-HpCDF

200306R2_2



F4: Voltage SIR, EI+
417.825
2.082e+006

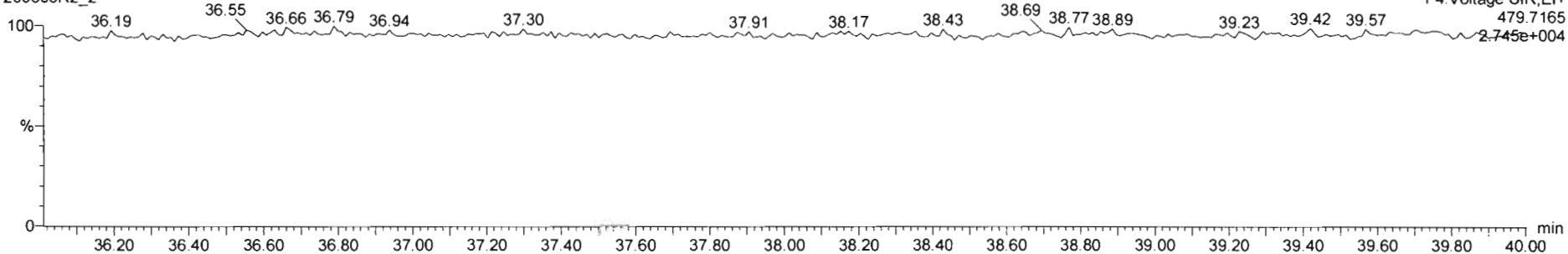
200306R2_2



F4: Voltage SIR, EI+
419.822
4.540e+006

DPE4

200306R2_2



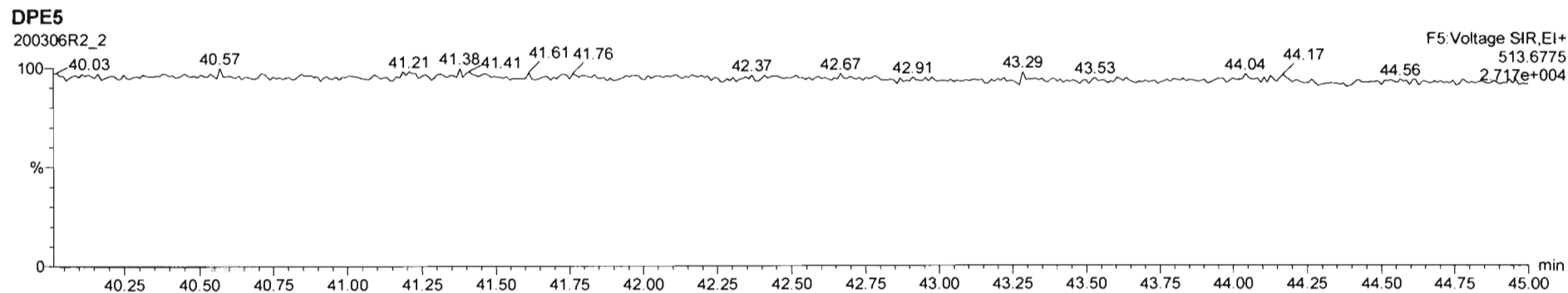
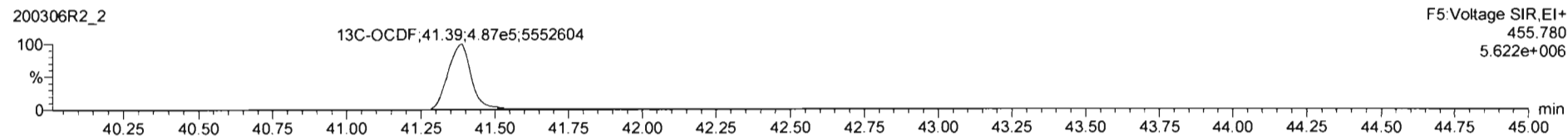
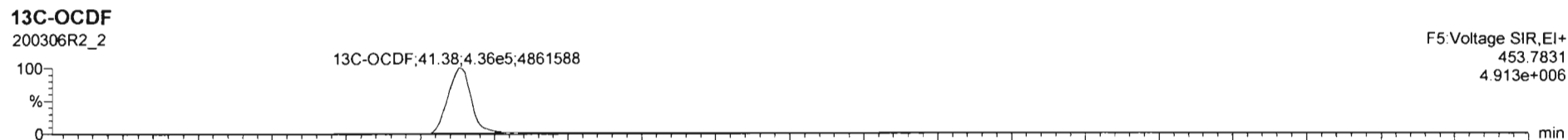
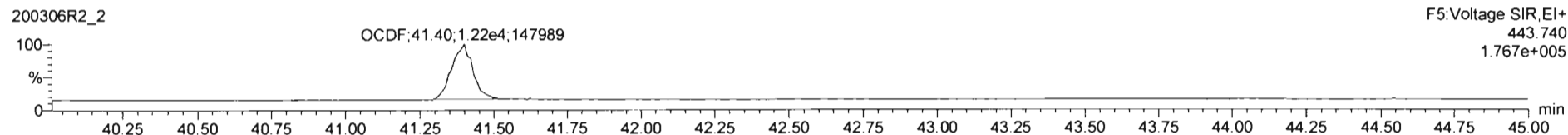
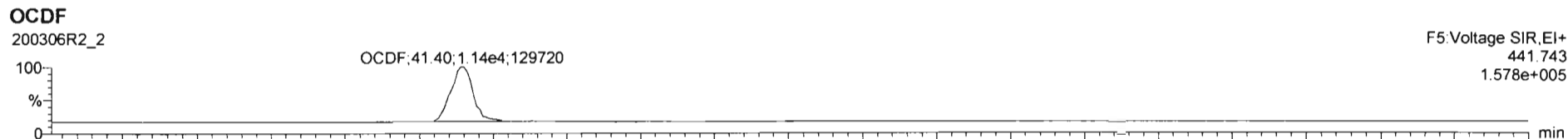
F4: Voltage SIR, EI+
479.7165
2.745e+004

Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

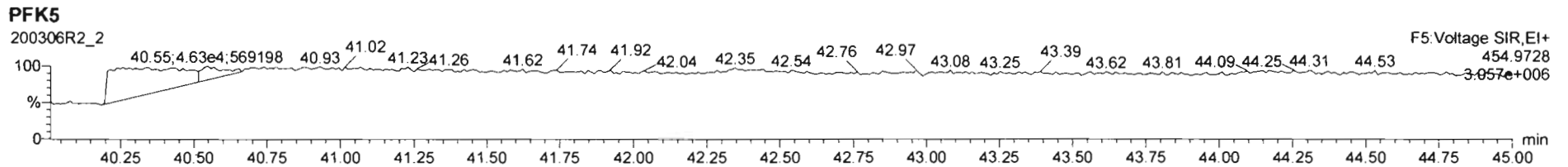
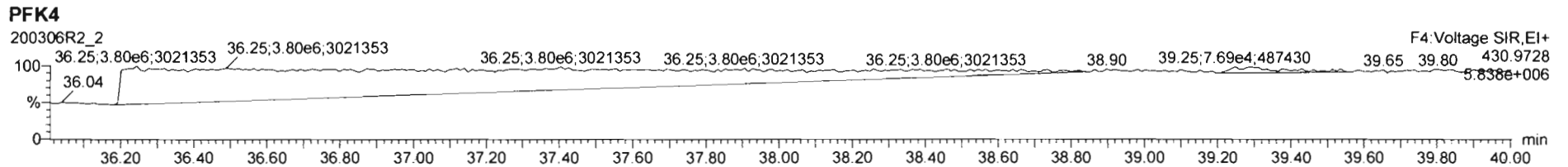
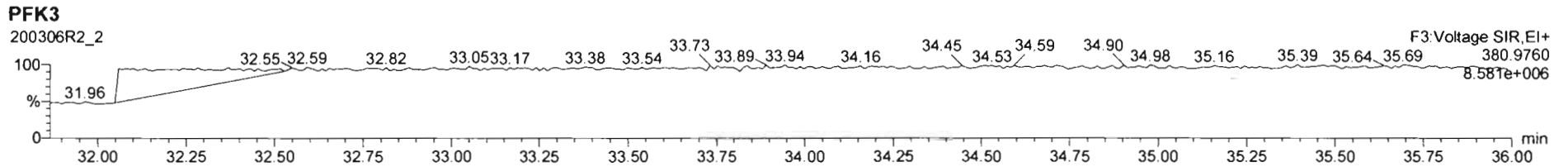
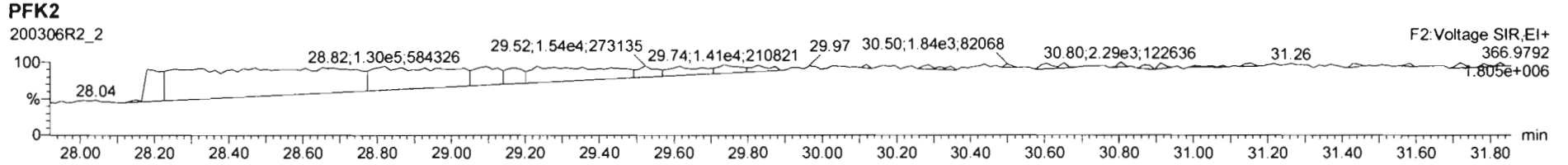
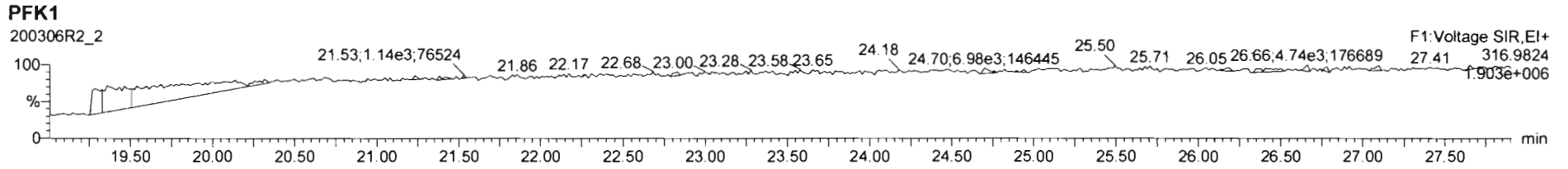


Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_2, Date: 06-Mar-2020, Time: 13:58:25, ID: ST200306R2_2 1613 CS1 19L2303, Description: 1613 CS1 19L2303



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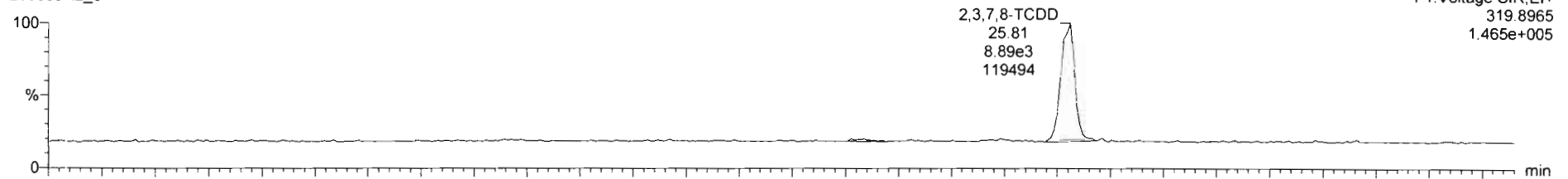
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

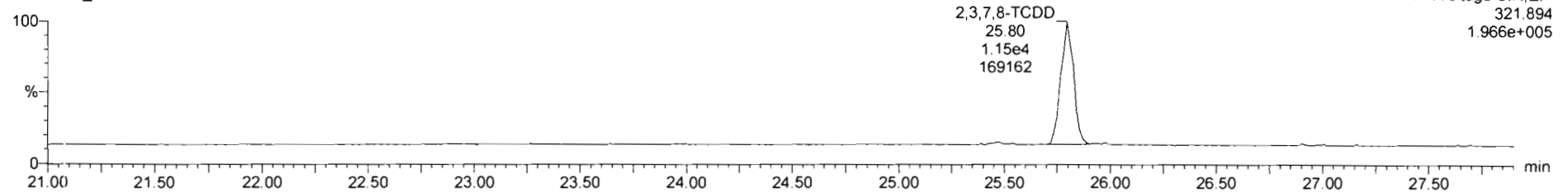
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2,3,7,8-TCDD

200306R2_3

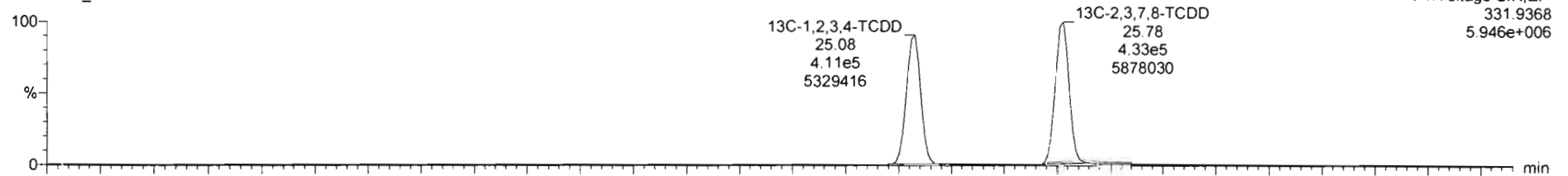


200306R2_3

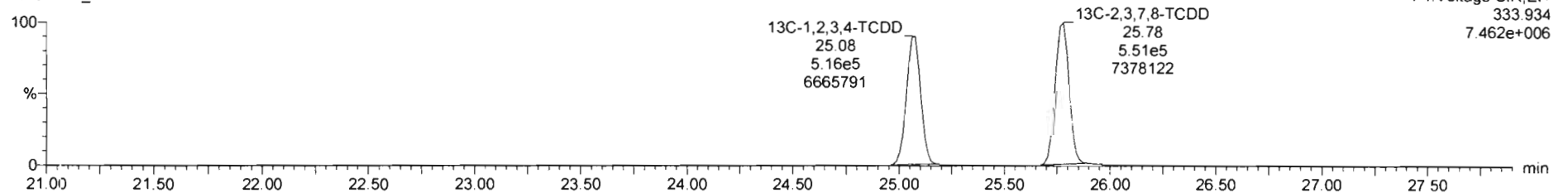


13C-2,3,7,8-TCDD

200306R2_3



200306R2_3



Dataset: Untitled

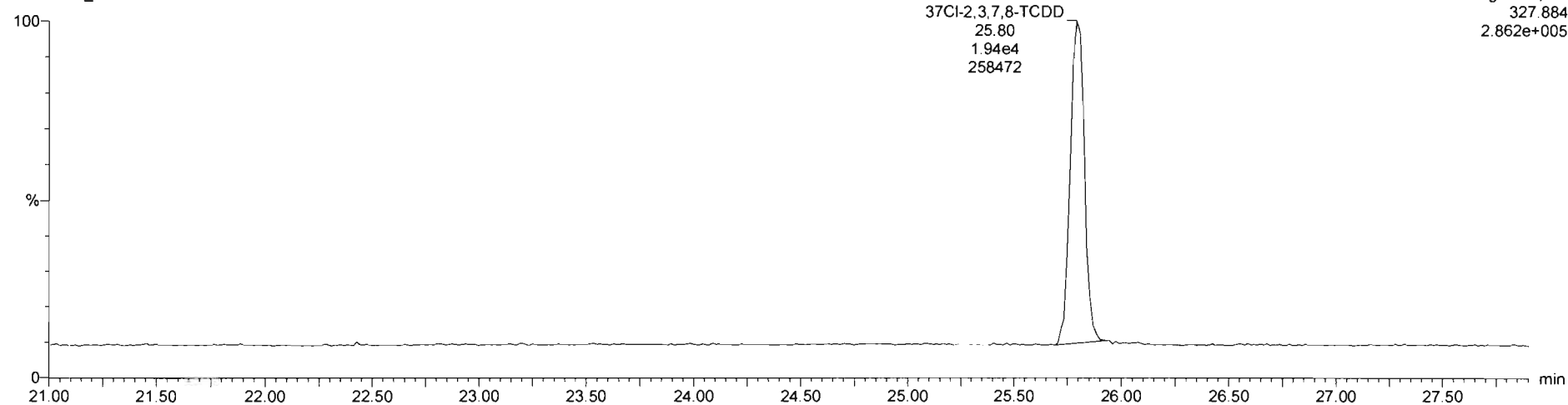
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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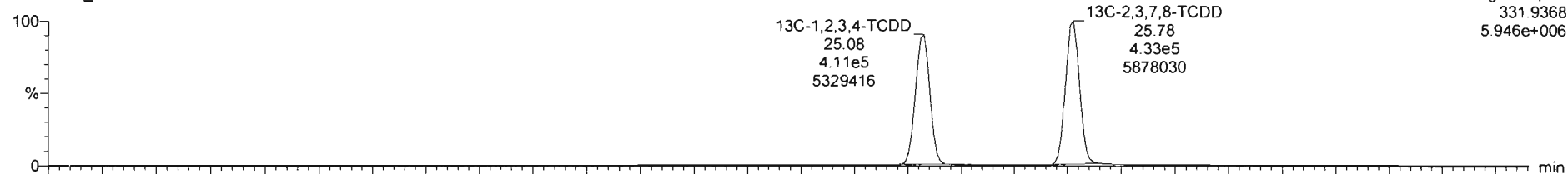
37Cl-2,3,7,8-TCDD

200306R2_3

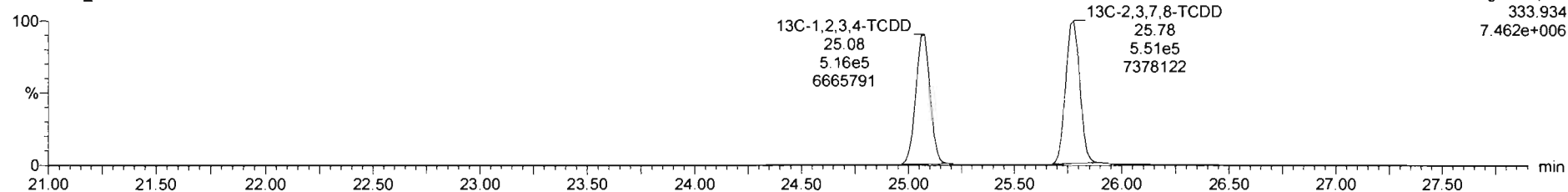


13C-1,2,3,4-TCDD

200306R2_3



200306R2_3



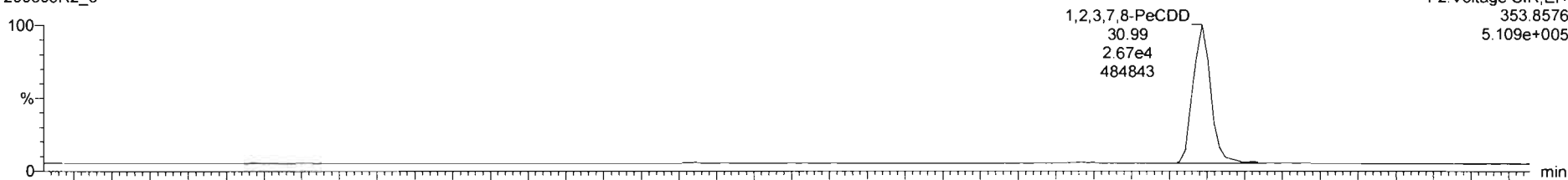
Dataset: Untitled

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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

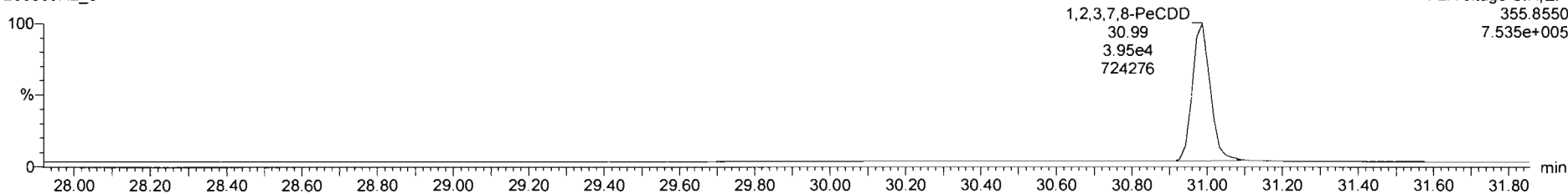
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1,2,3,7,8-PeCDD

200306R2_3

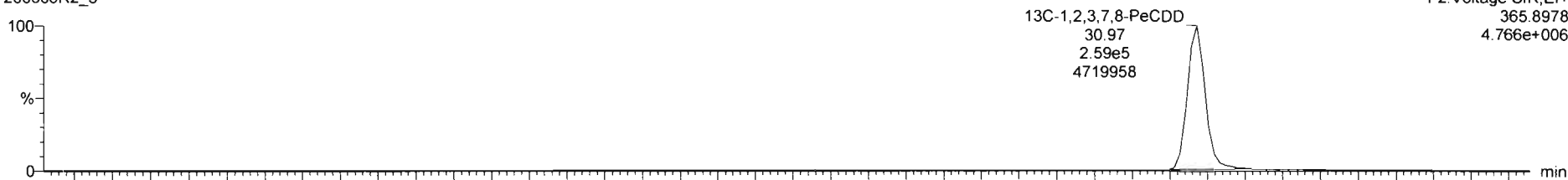


200306R2_3

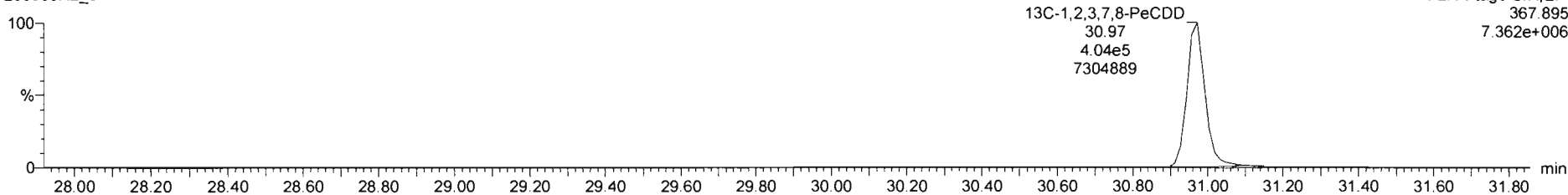


13C-1,2,3,7,8-PeCDD

200306R2_3



200306R2_3



Dataset: Untitled

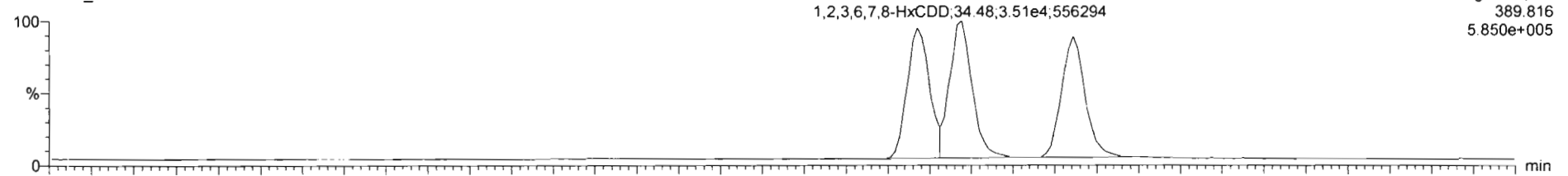
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

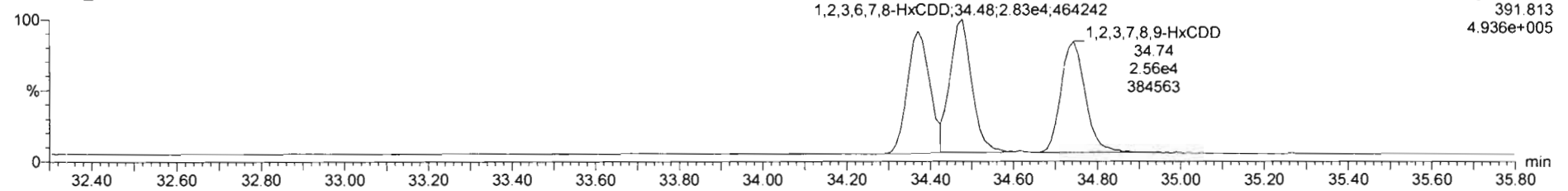
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1,2,3,4,7,8-HxCDD

200306R2_3

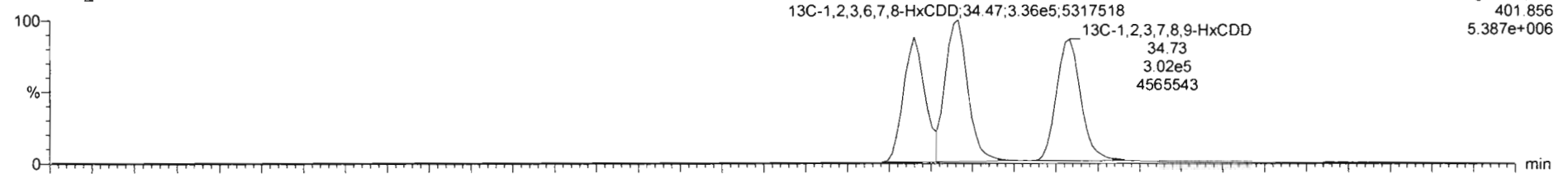


200306R2_3

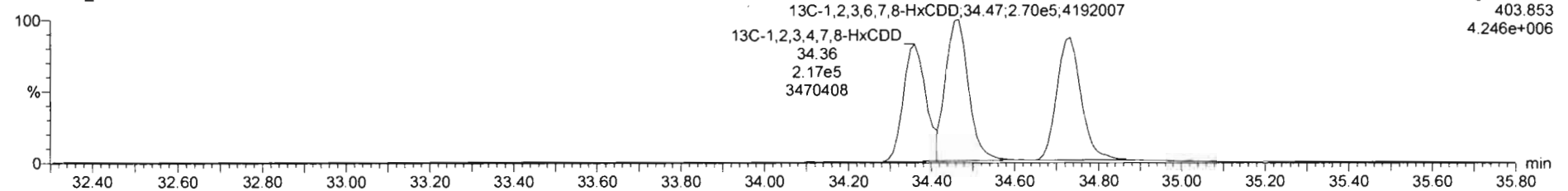


13C-1,2,3,4,7,8-HxCDD

200306R2_3



200306R2_3



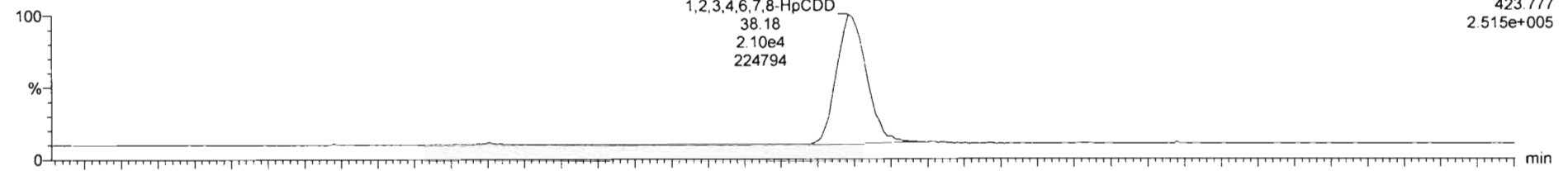
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

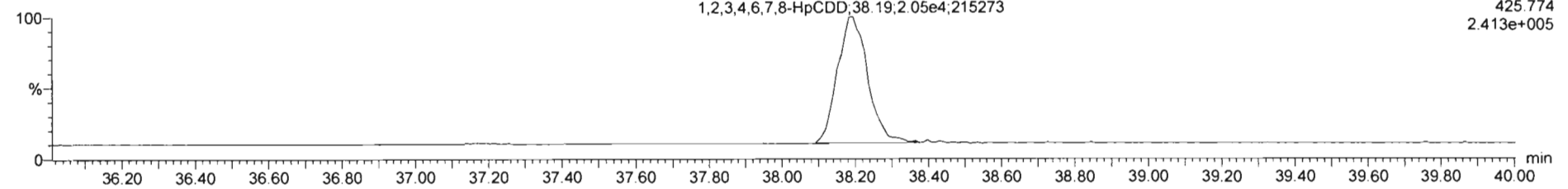
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1,2,3,4,6,7,8-HpCDD

200306R2_3

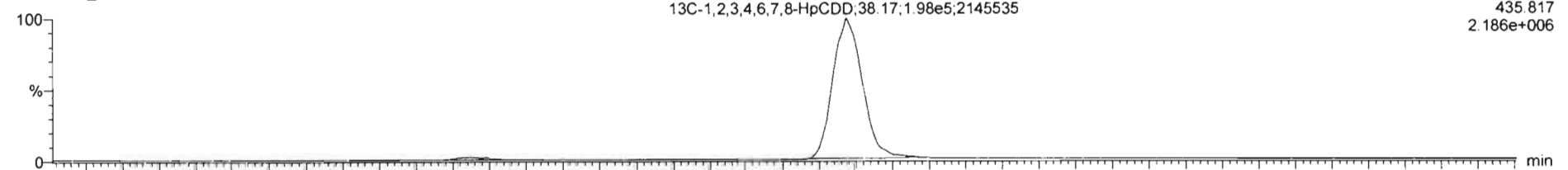


200306R2_3

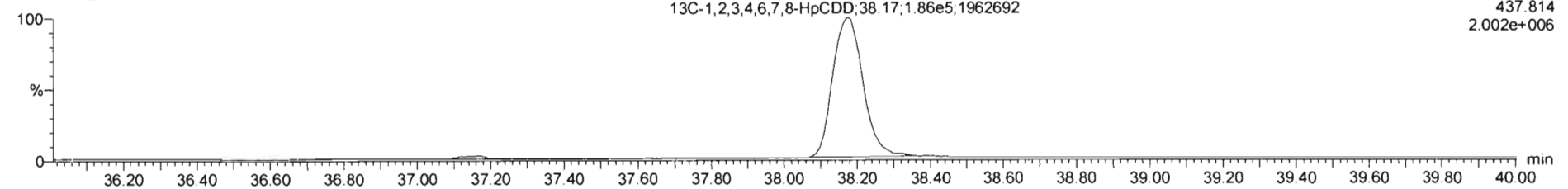


13C-1,2,3,4,6,7,8-HpCDD

200306R2_3



200306R2_3



Dataset: Untitled

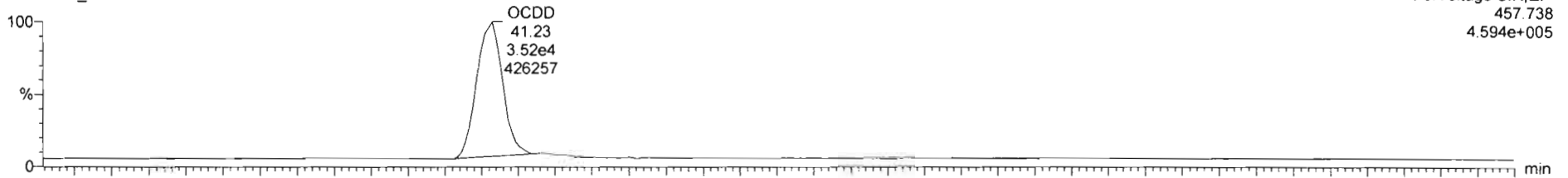
Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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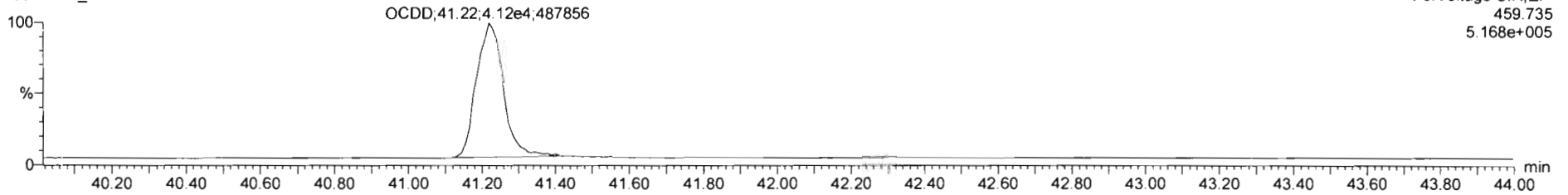
OCDD

200306R2_3



F5:Voltage SIR,EI+
457.738
4.594e+005

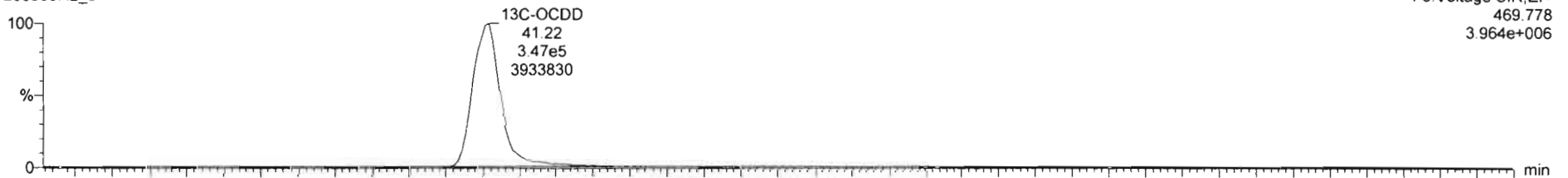
200306R2_3



F5:Voltage SIR,EI+
459.735
5.168e+005

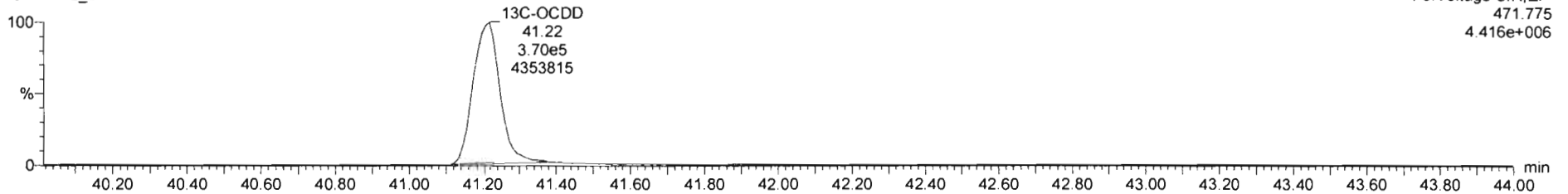
13C-OCDD

200306R2_3



F5:Voltage SIR,EI+
469.778
3.964e+006

200306R2_3



F5:Voltage SIR,EI+
471.775
4.416e+006

Dataset: Untitled

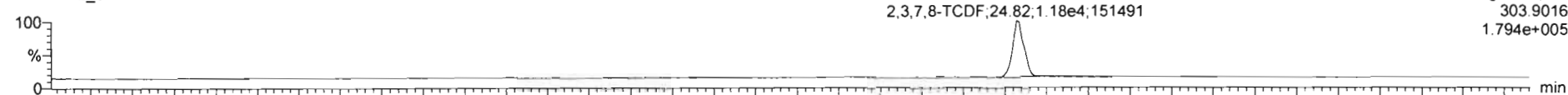
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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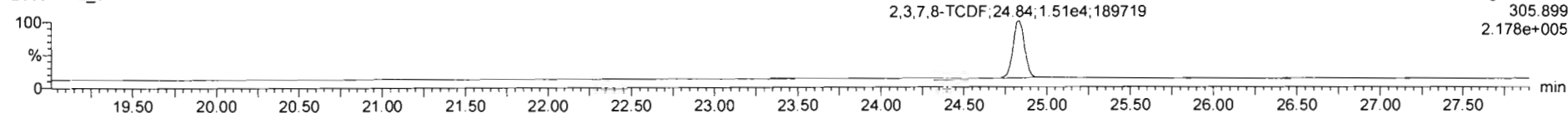
2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
303.9016
1.794e+005

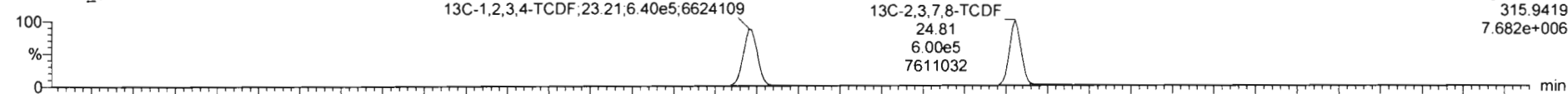
200306R2_3



F1:Voltage SIR,EI+
305.899
2.178e+005

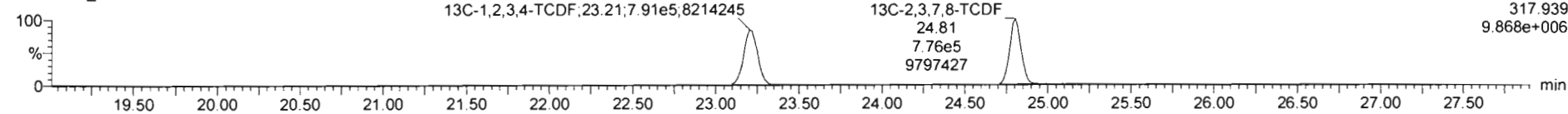
13C-2,3,7,8-TCDF

200306R2_3



F1:Voltage SIR,EI+
315.9419
7.682e+006

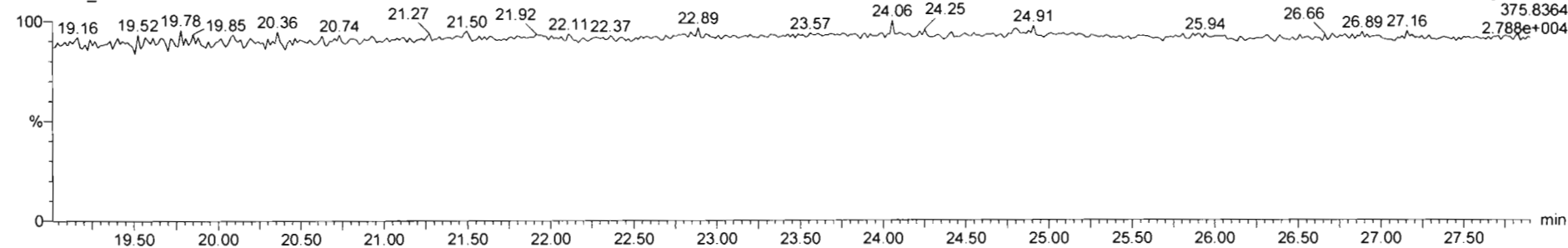
200306R2_3



F1:Voltage SIR,EI+
317.939
9.868e+006

DPE1

200306R2_3



F1:Voltage SIR,EI+
375.8364
2.788e+004

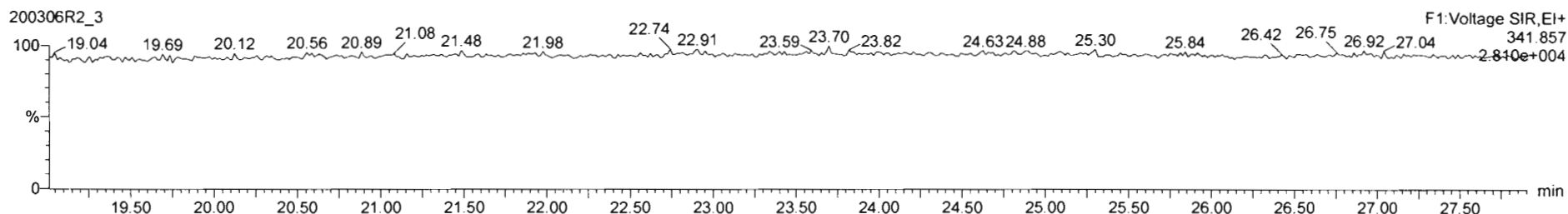
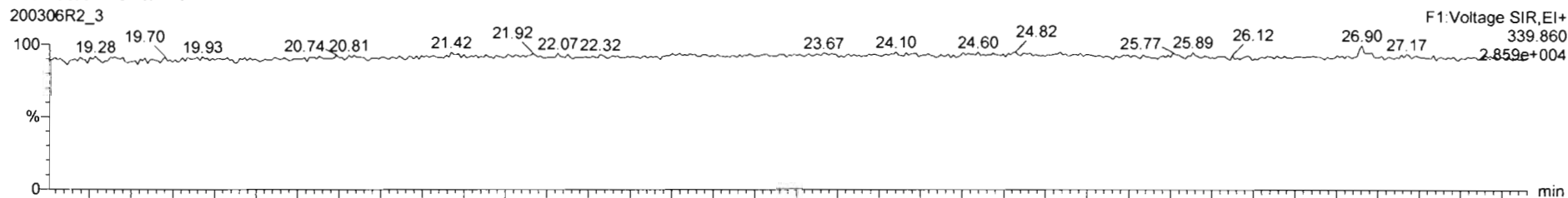
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

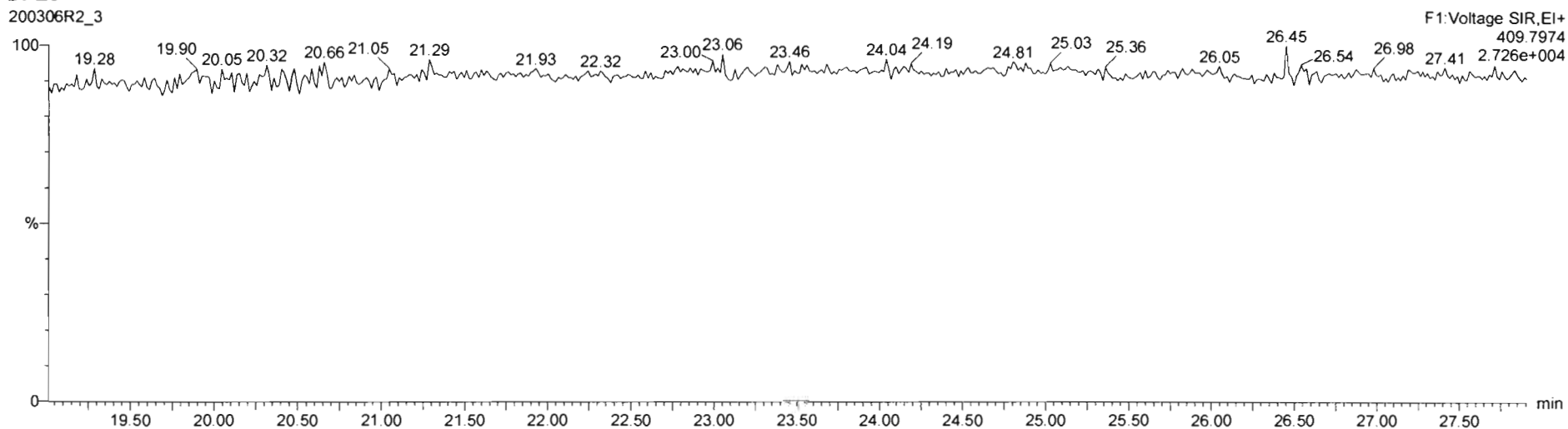
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Name: 200306R2_3, Date: 06-Mar-2020, Time: 14:44:37, ID: ST200306R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

1st Func. Penta-Furans



DPE6



Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

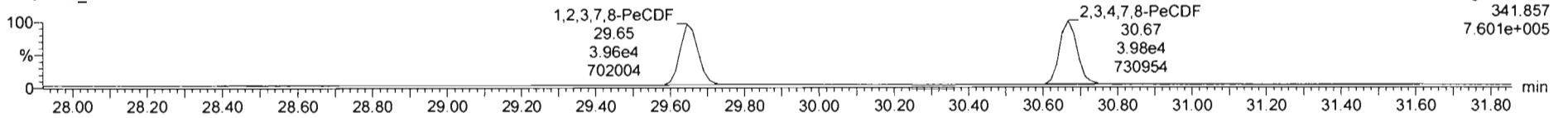
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1,2,3,7,8-PeCDF

200306R2_3

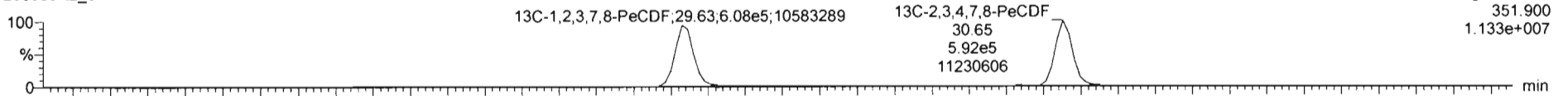


200306R2_3

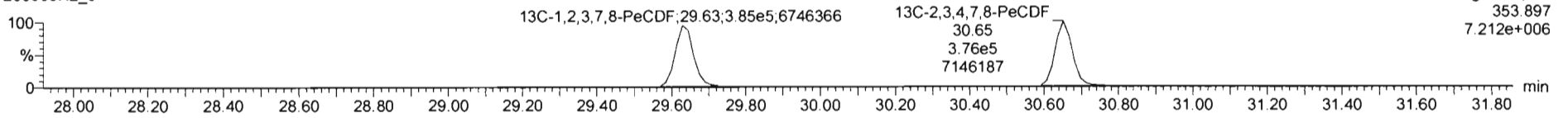


13C-1,2,3,7,8-PeCDF

200306R2_3

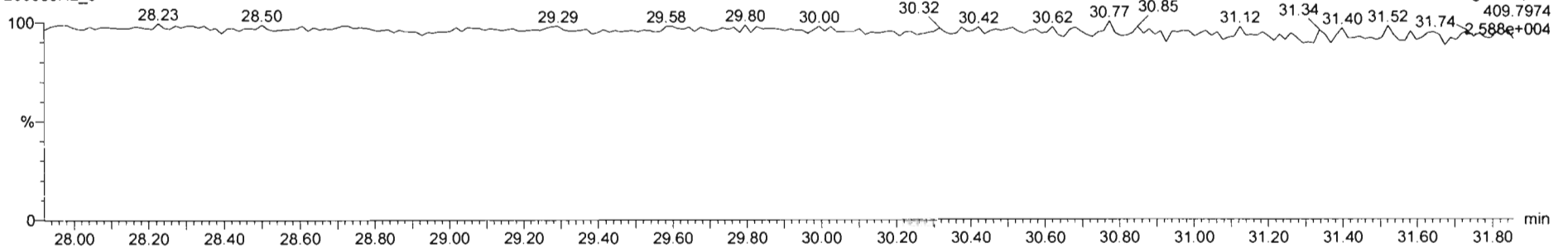


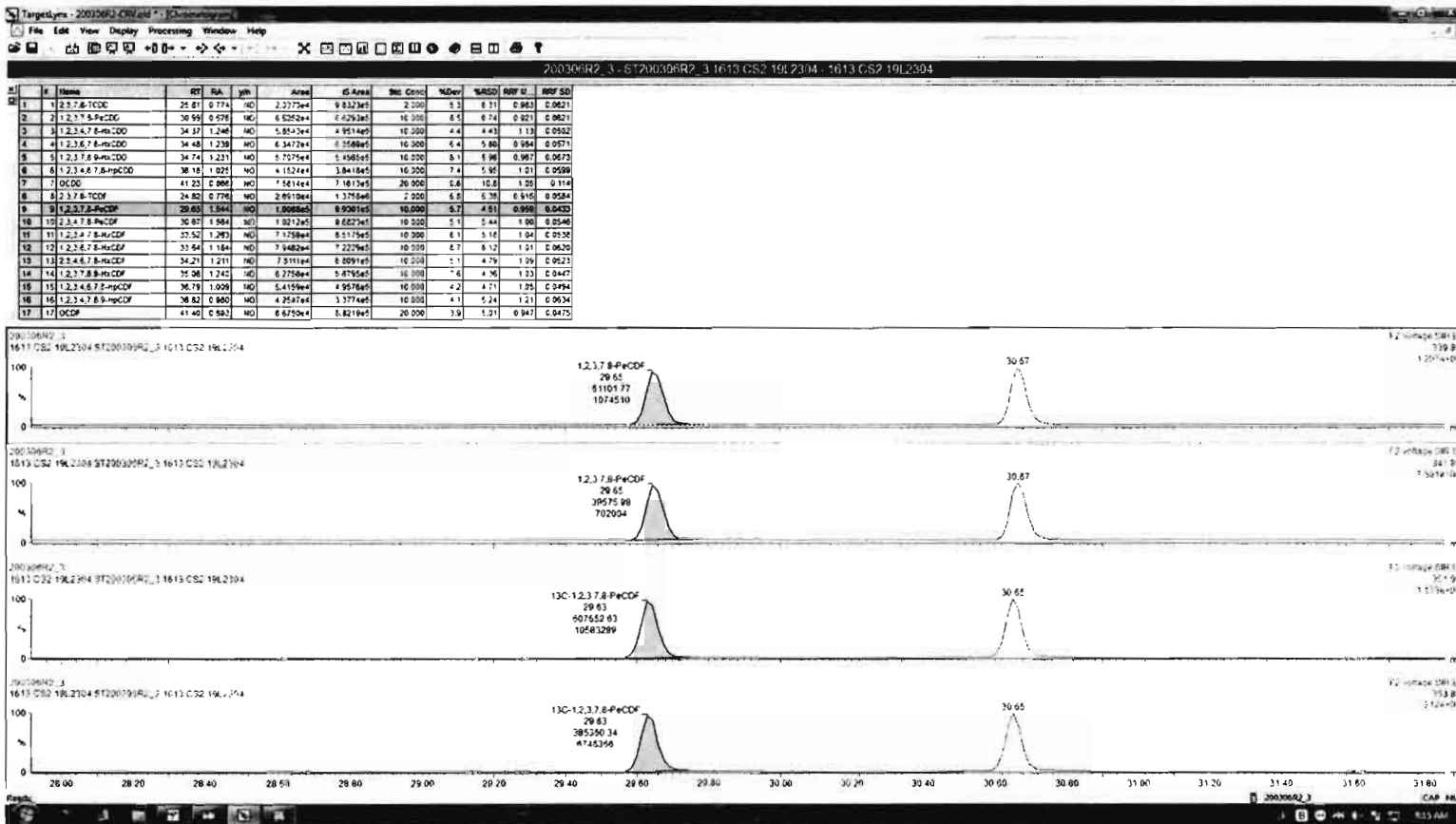
200306R2_3



DPE2

200306R2_3





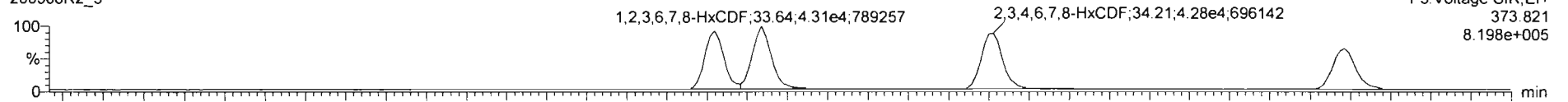
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

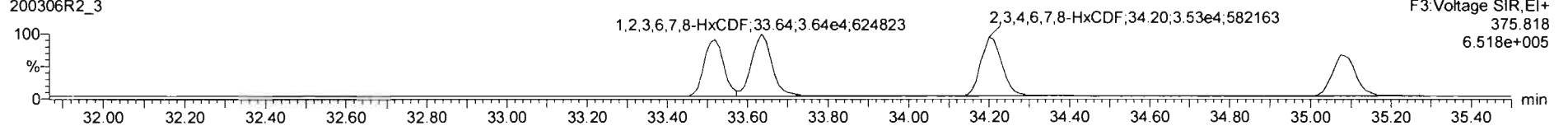
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1,2,3,4,7,8-HxCDF

200306R2_3

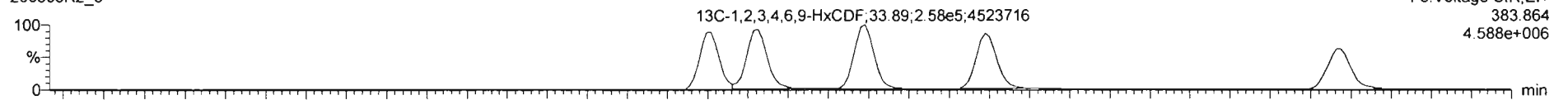


200306R2_3

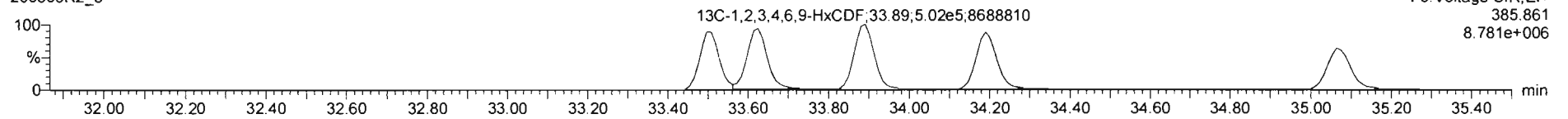


13C-1,2,3,4,7,8-HxCDF

200306R2_3

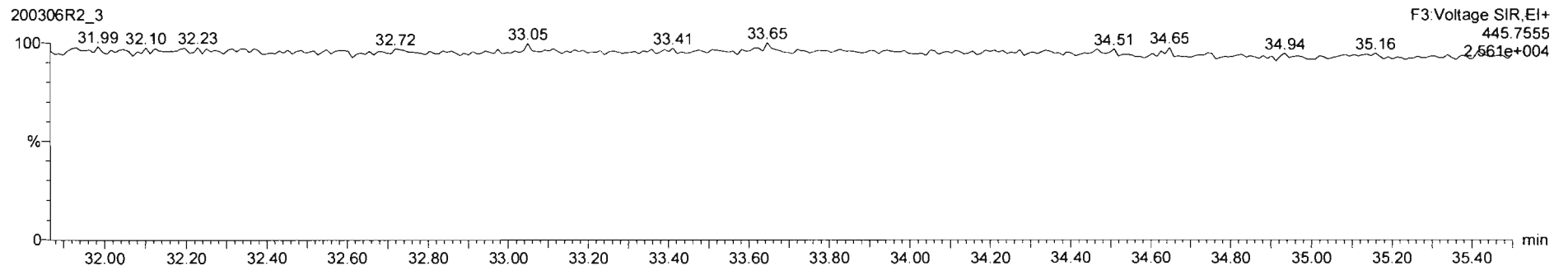


200306R2_3



DPE3

200306R2_3

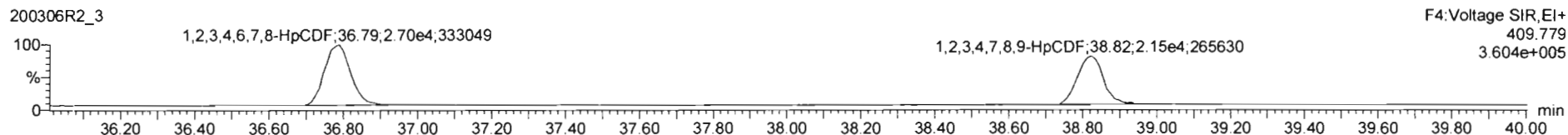
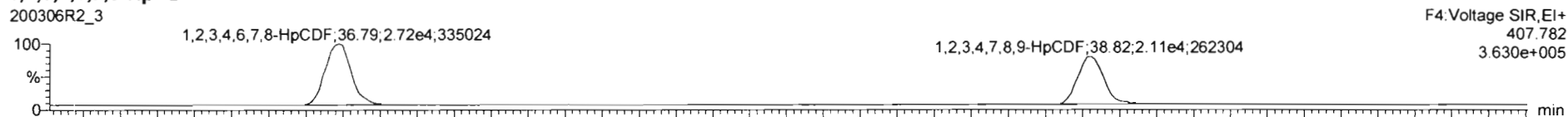


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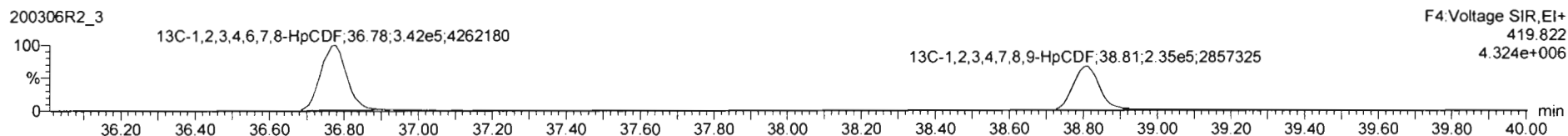
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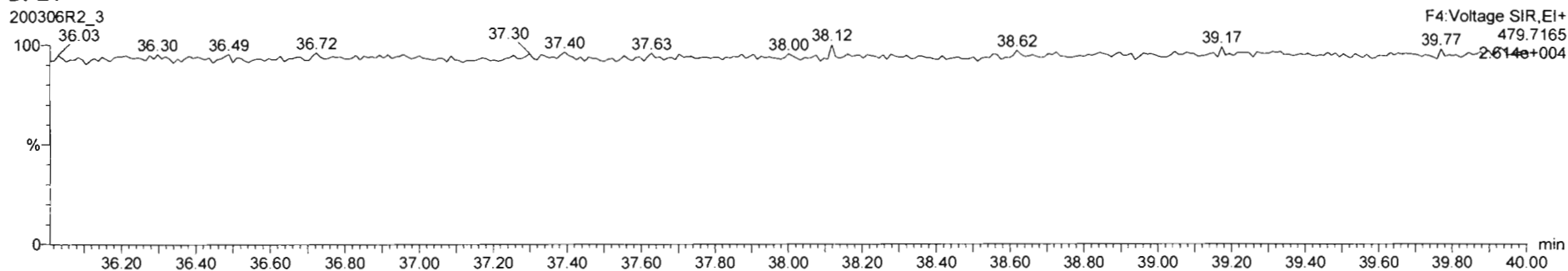
1,2,3,4,6,7,8-HpCDF



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



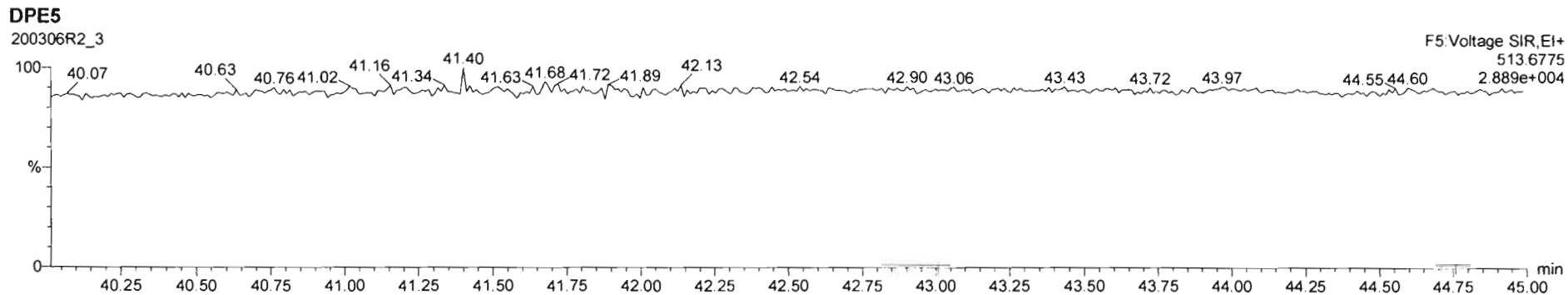
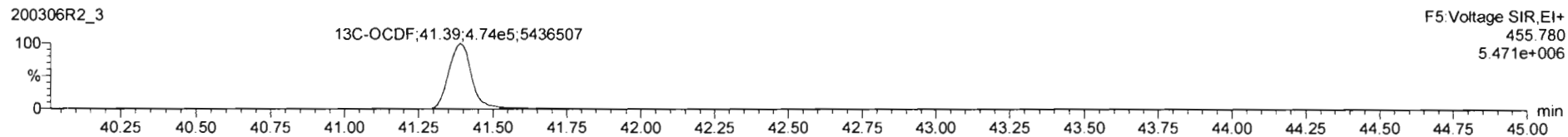
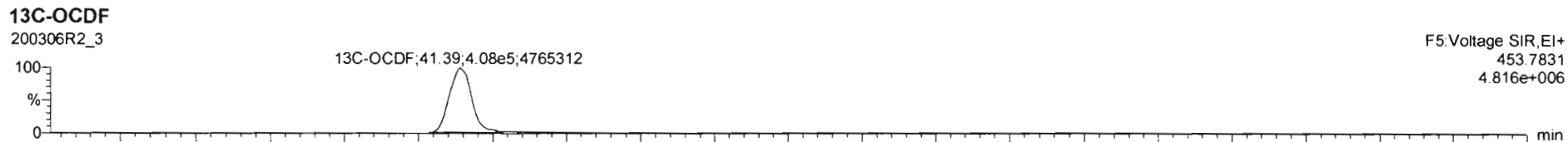
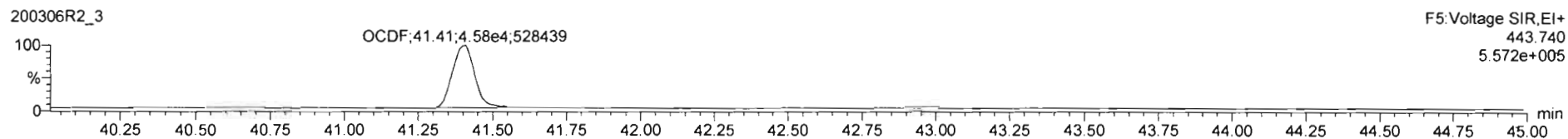
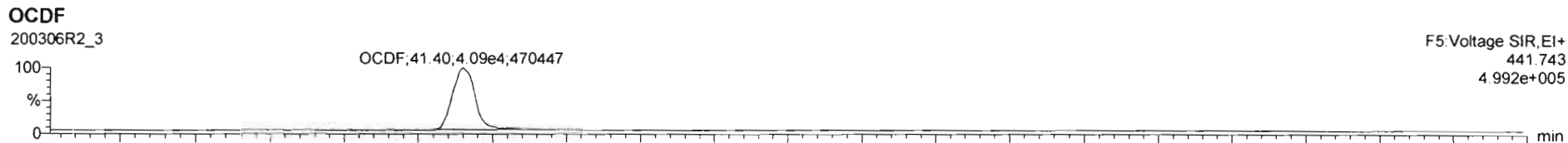
DPE4



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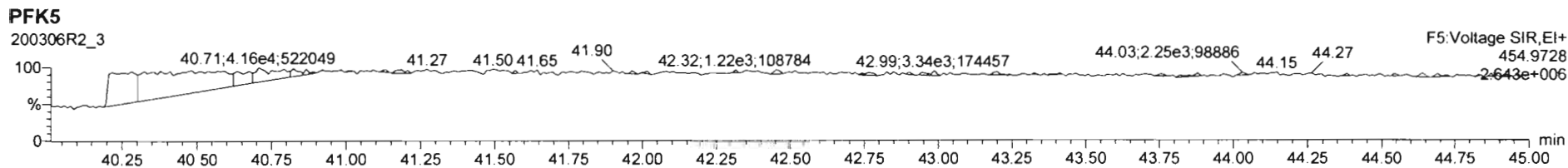
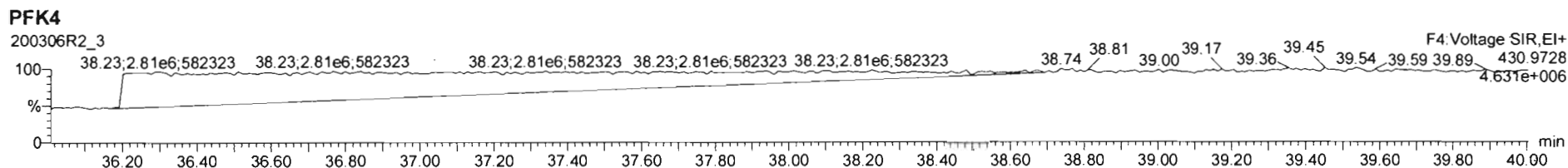
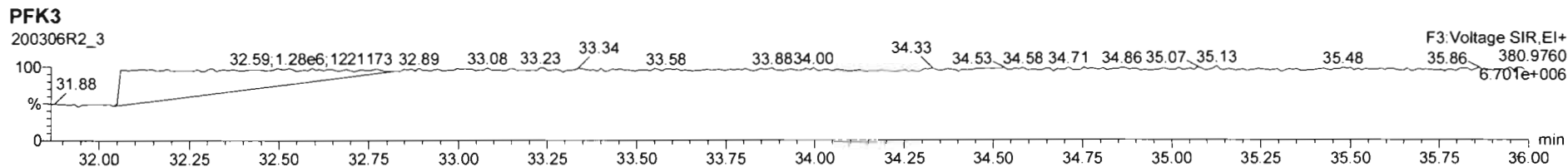
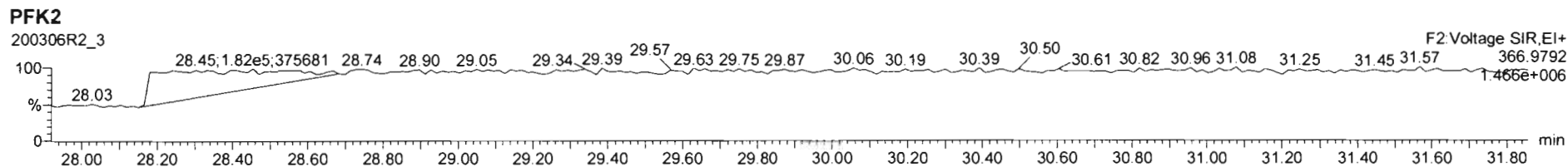
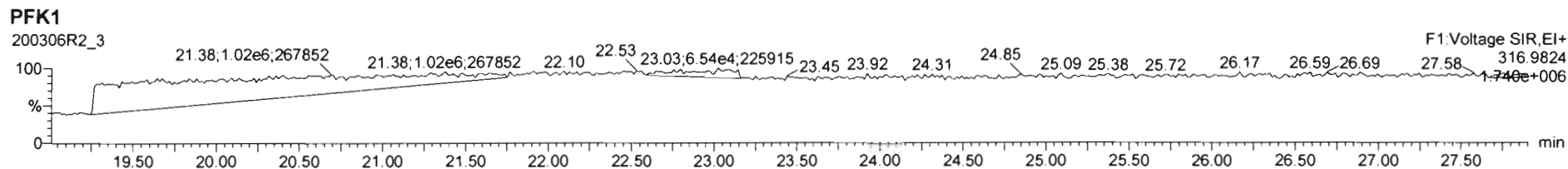


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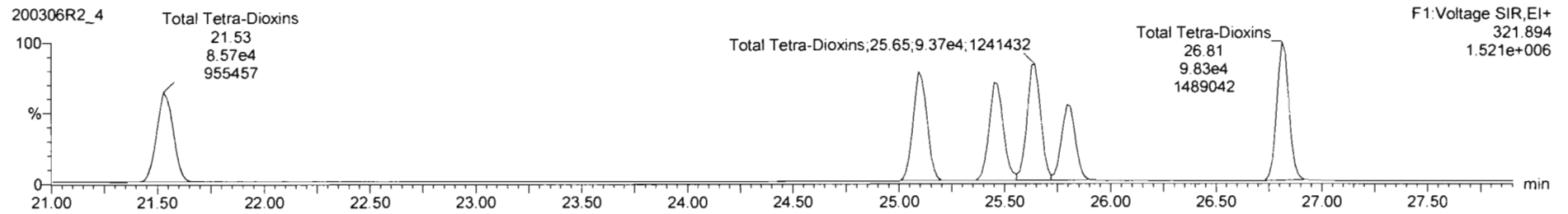
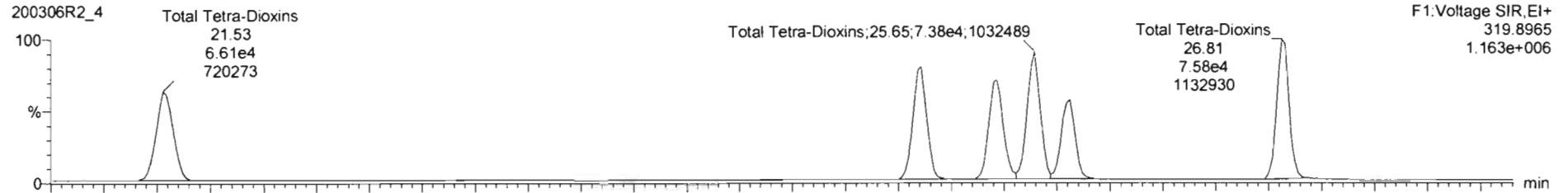


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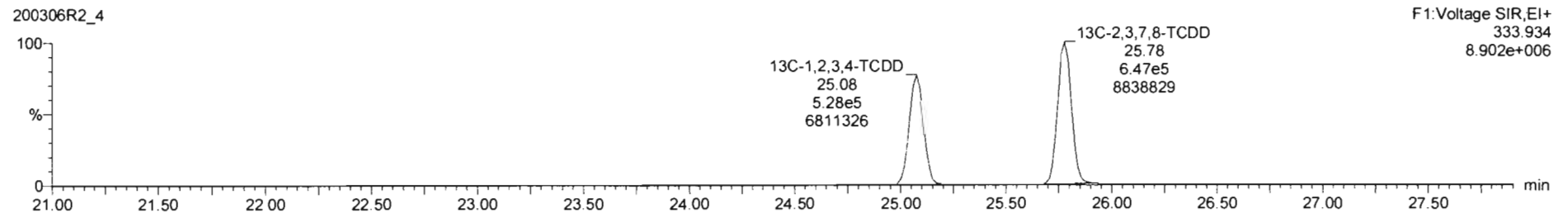
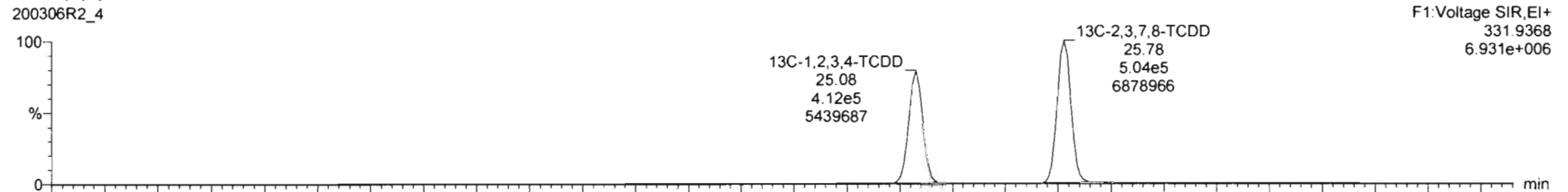
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Name: 200306R2_4, Date: 06-Mar-2020, Time: 15:32:12, ID: ST200306R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



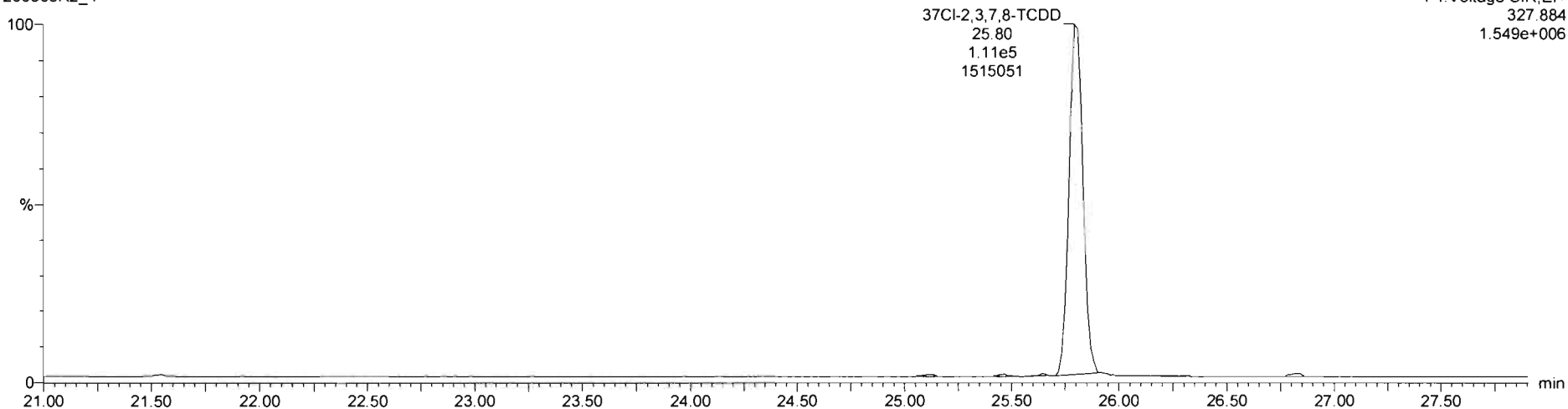
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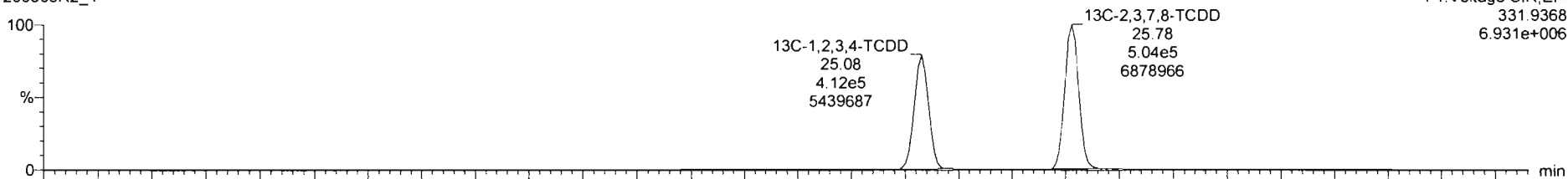
37Cl-2,3,7,8-TCDD

200306R2_4

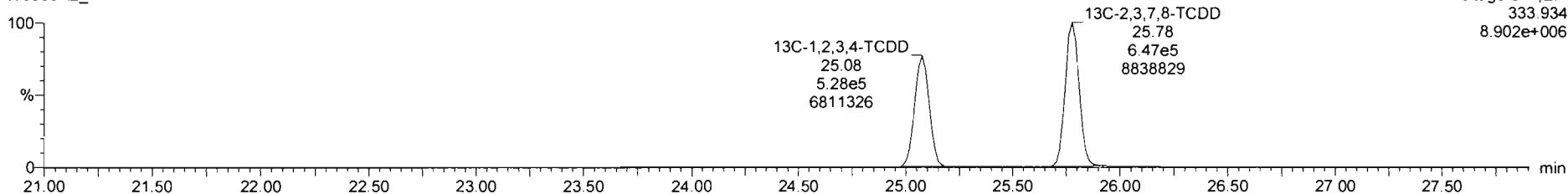


13C-1,2,3,4-TCDD

200306R2_4



200306R2_4



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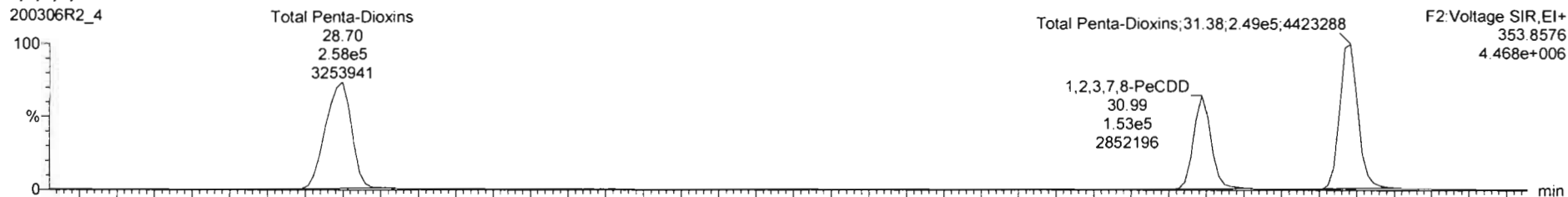
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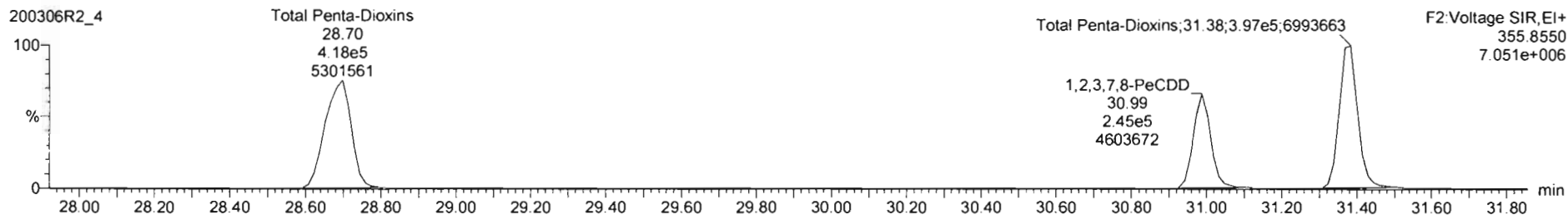
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1,2,3,7,8-PeCDD

200306R2_4

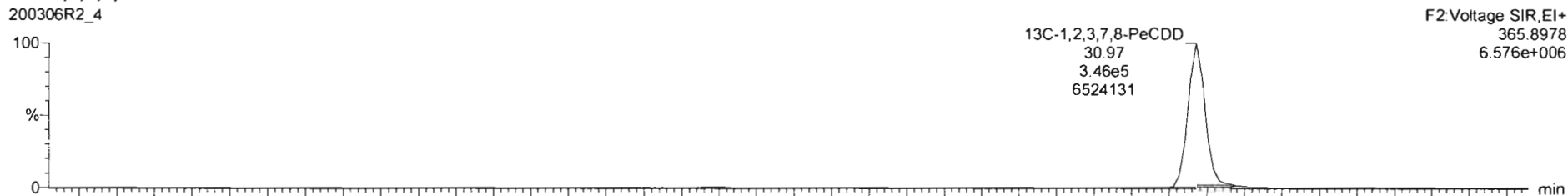


200306R2_4

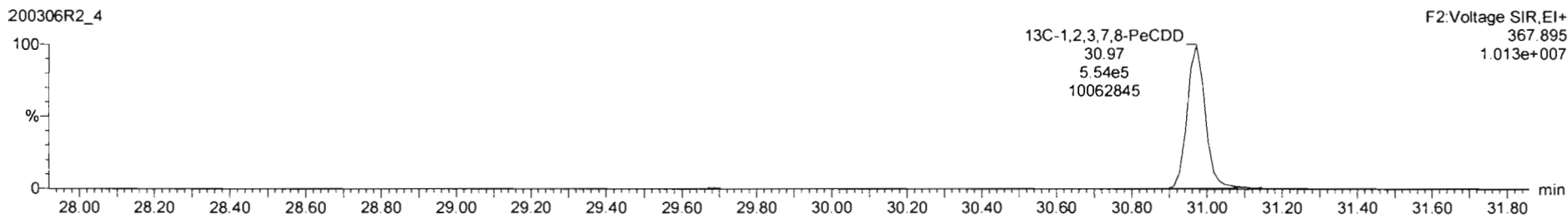


13C-1,2,3,7,8-PeCDD

200306R2_4



200306R2_4



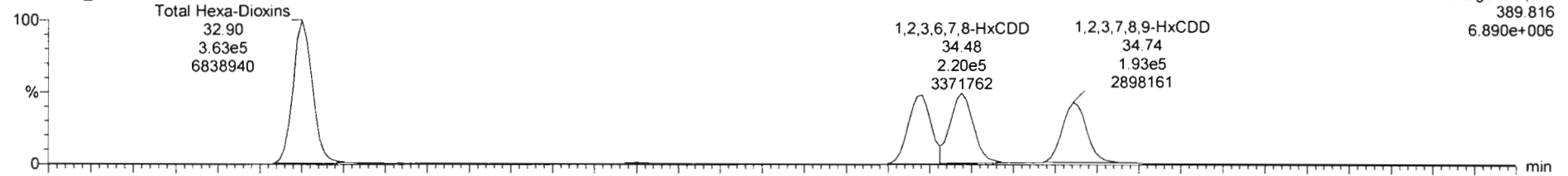
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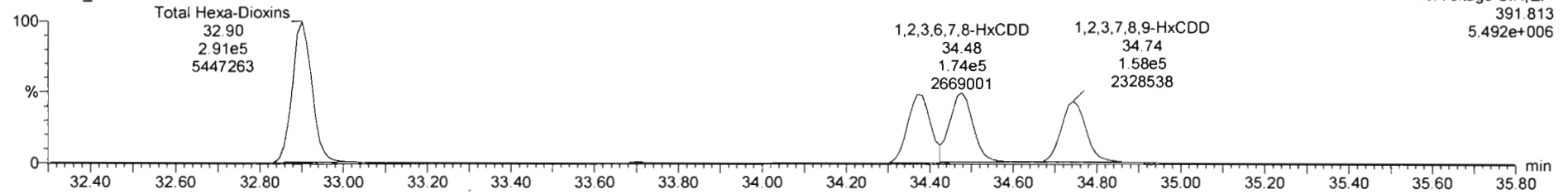
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1,2,3,4,7,8-HxCDD

200306R2_4

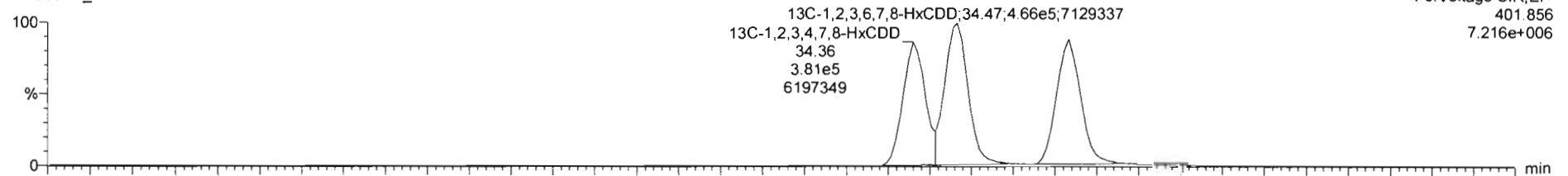


200306R2_4

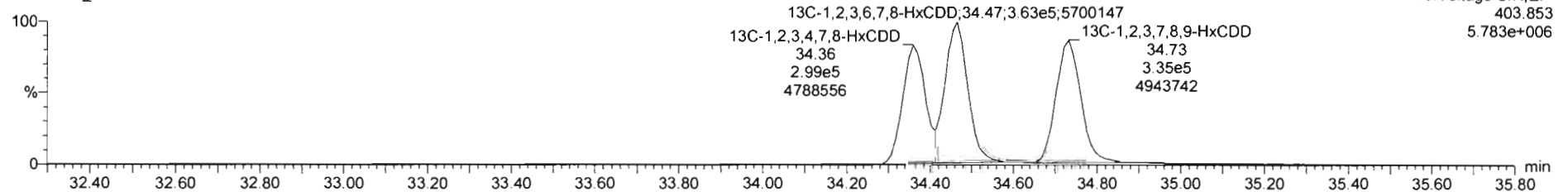


13C-1,2,3,4,7,8-HxCDD

200306R2_4



200306R2_4



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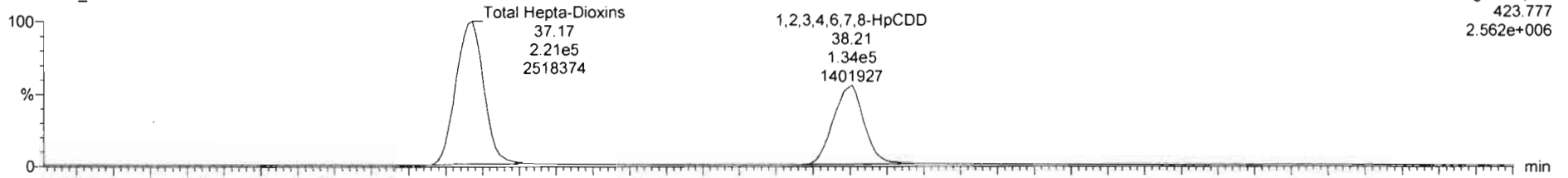
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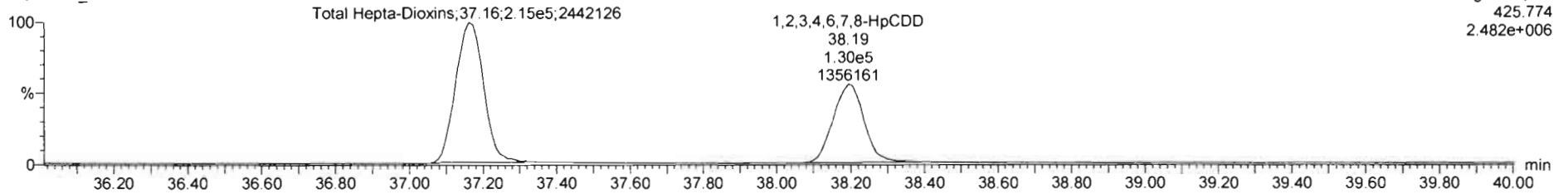
1,2,3,4,6,7,8-HpCDD

200306R2_4



F4: Voltage SIR, EI+
423.777
2.562e+006

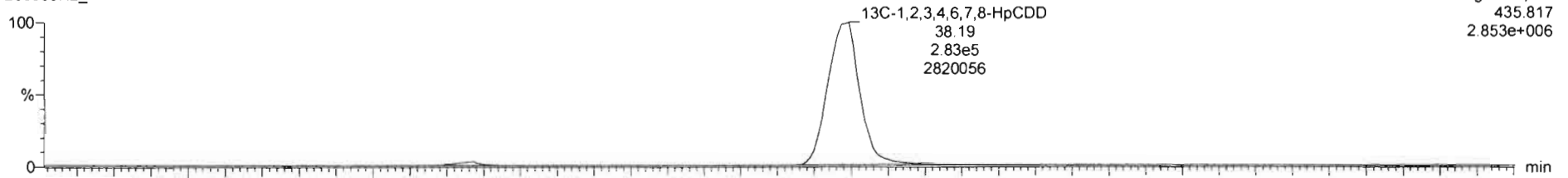
200306R2_4



F4: Voltage SIR, EI+
425.774
2.482e+006

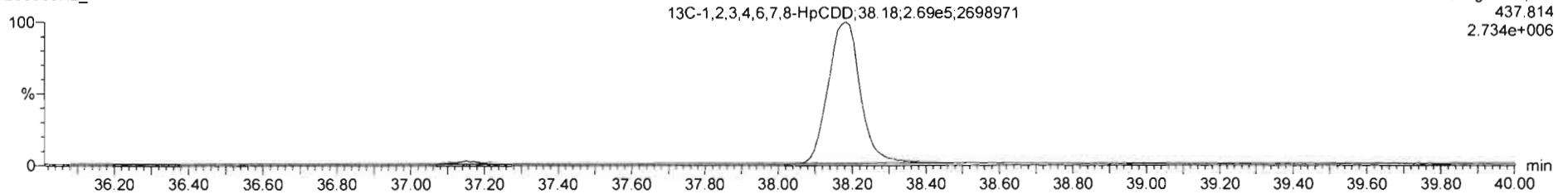
13C-1,2,3,4,6,7,8-HpCDD

200306R2_4



F4: Voltage SIR, EI+
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2.853e+006

200306R2_4

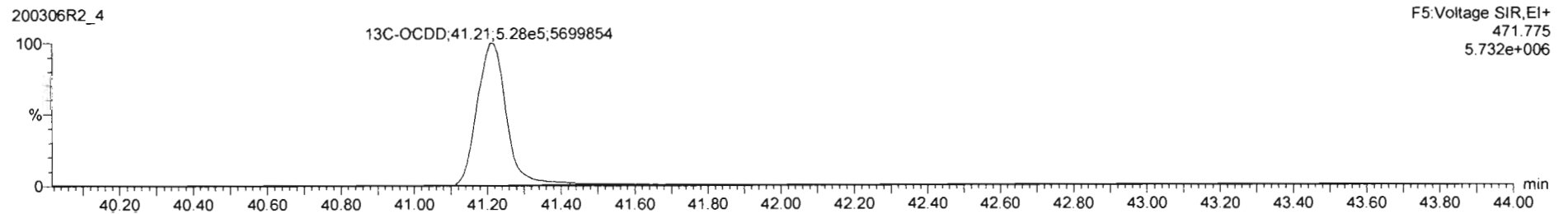
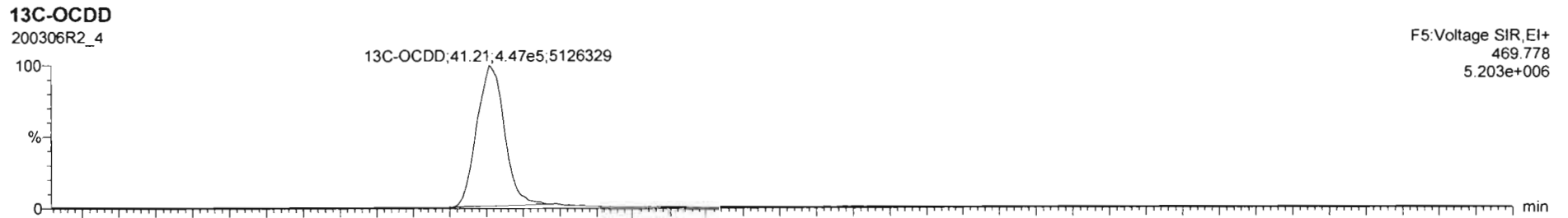
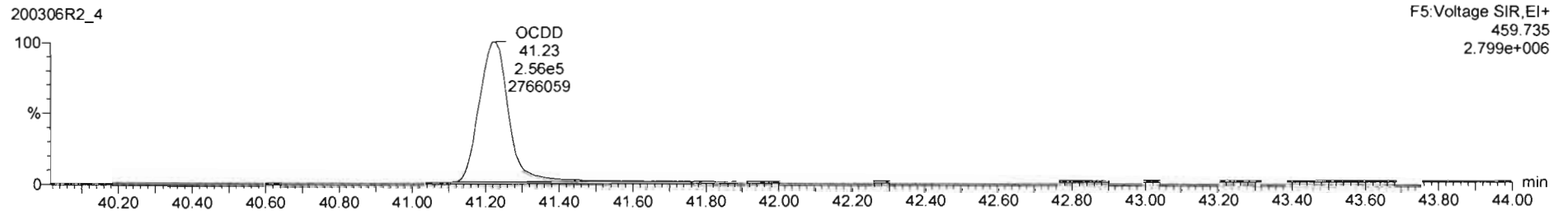
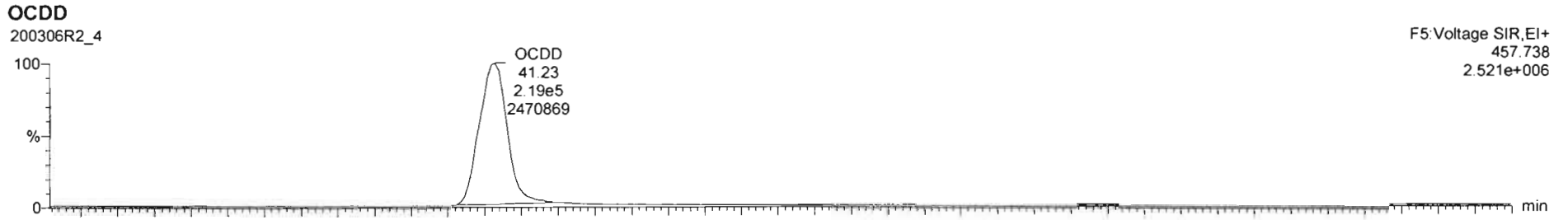


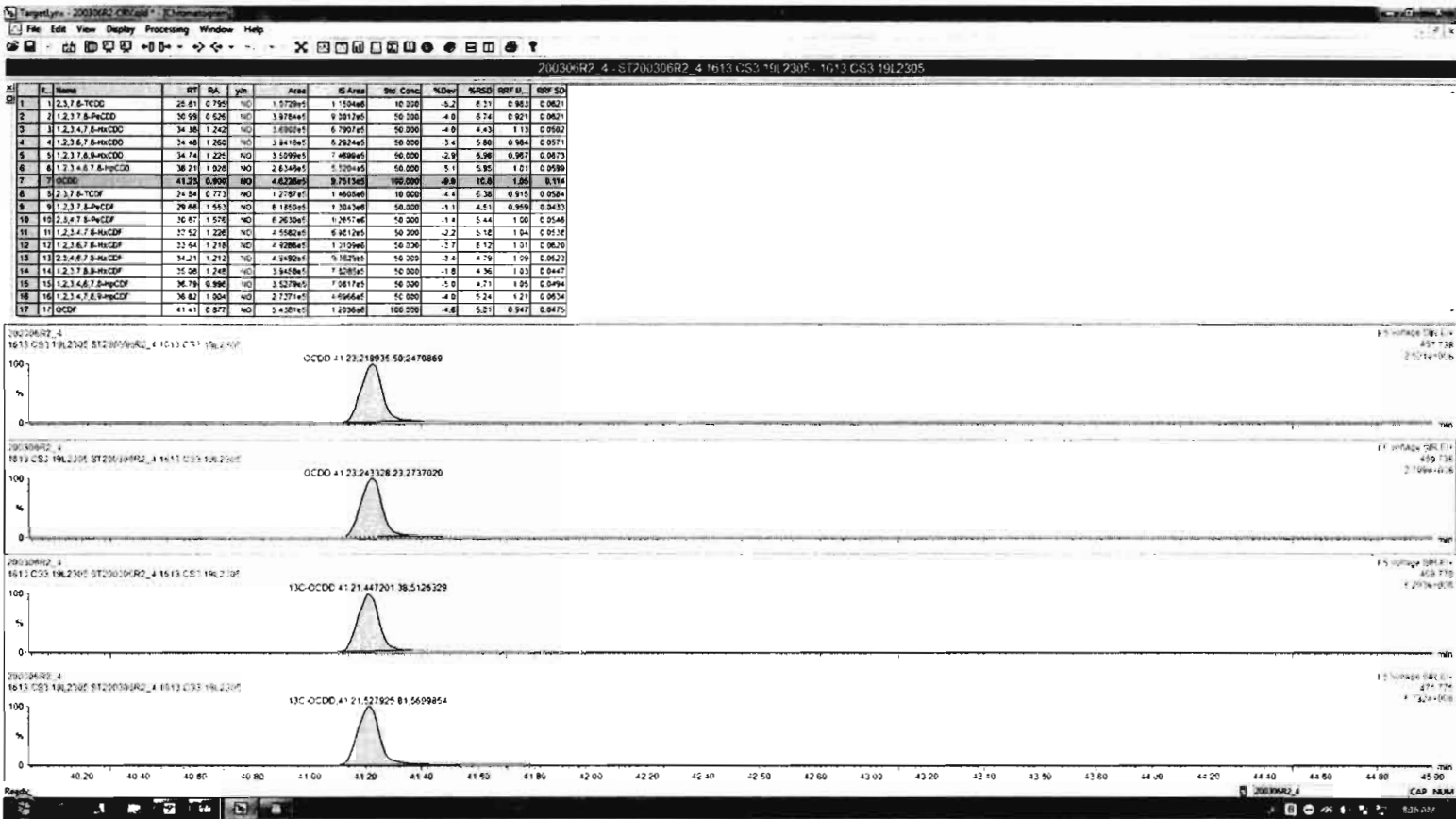
F4: Voltage SIR, EI+
437.814
2.734e+006

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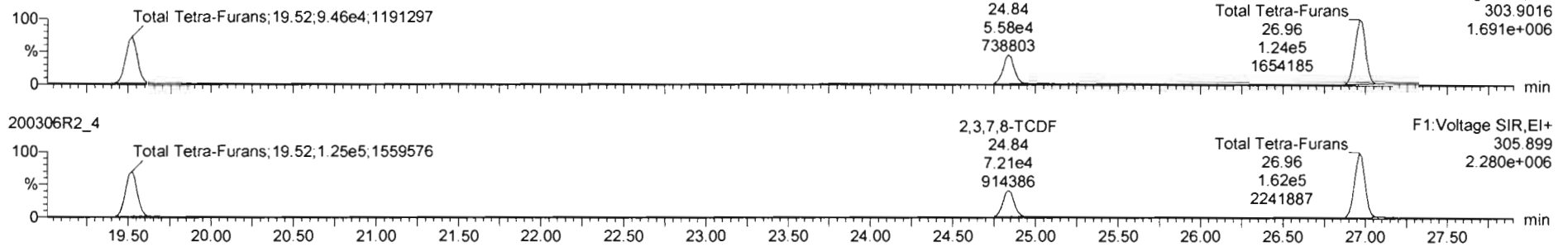
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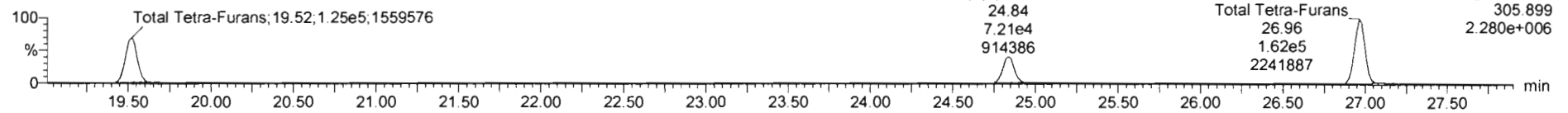
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2,3,7,8-TCDF

200306R2_4

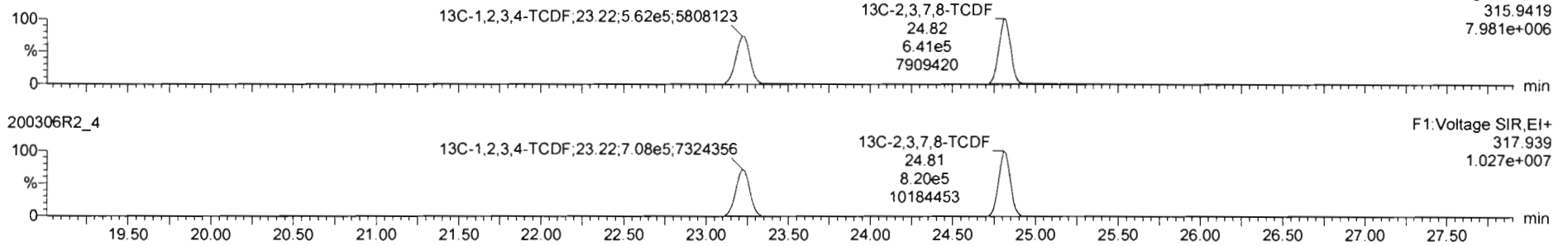


200306R2_4

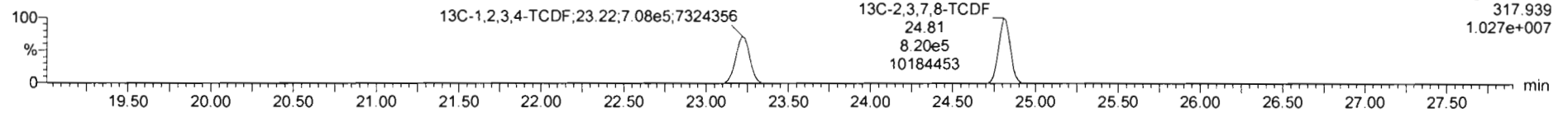


13C-2,3,7,8-TCDF

200306R2_4

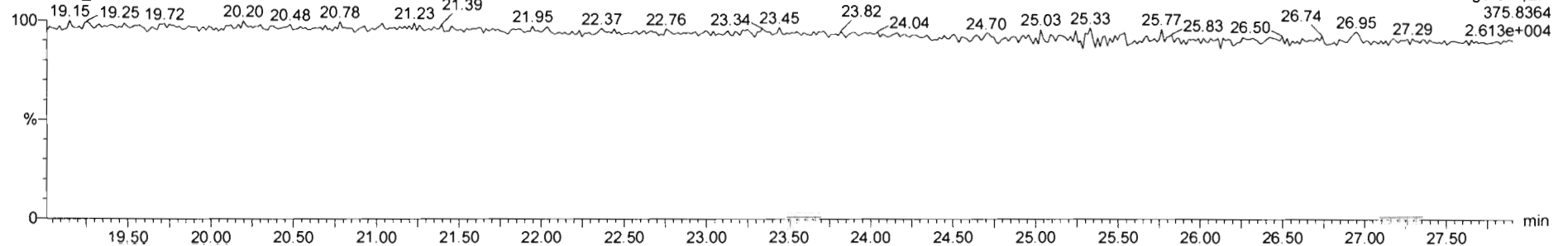


200306R2_4



DPE1

200306R2_4



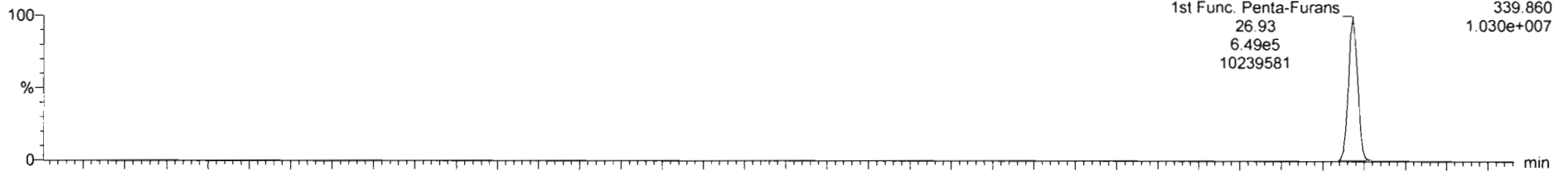
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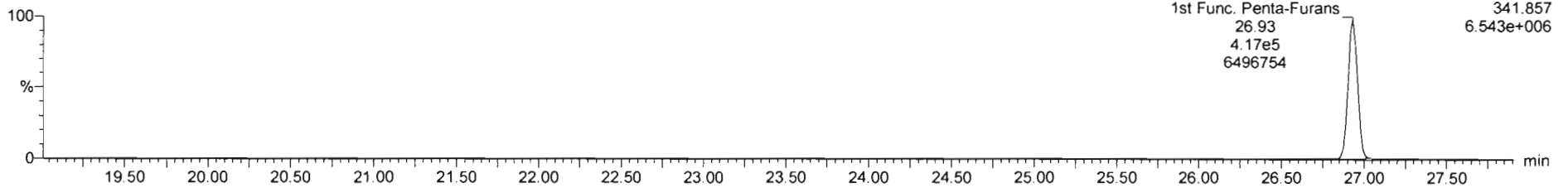
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200306R2_4

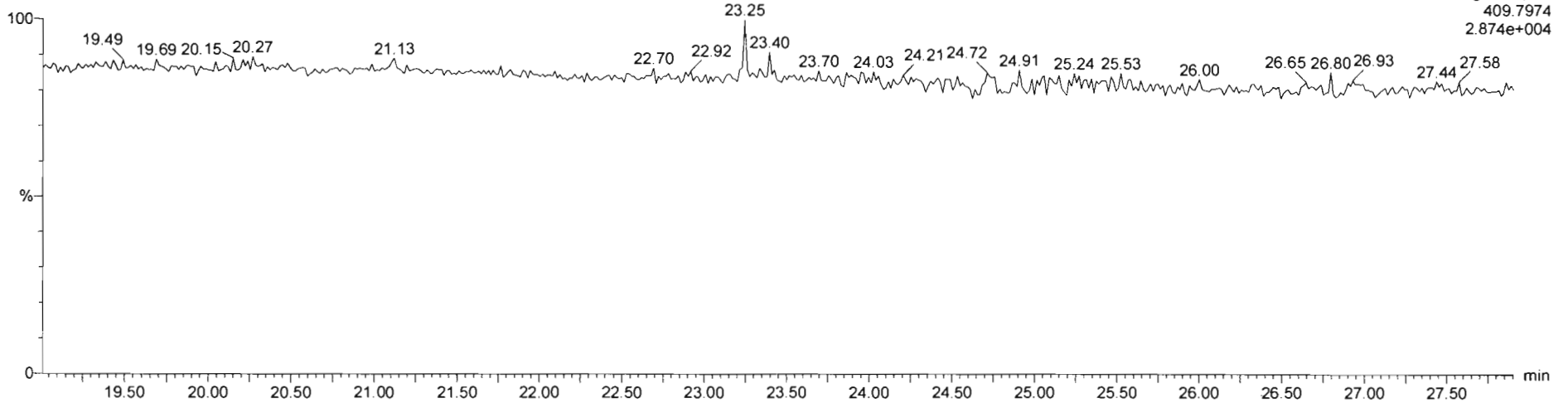


200306R2_4



DPE6

200306R2_4



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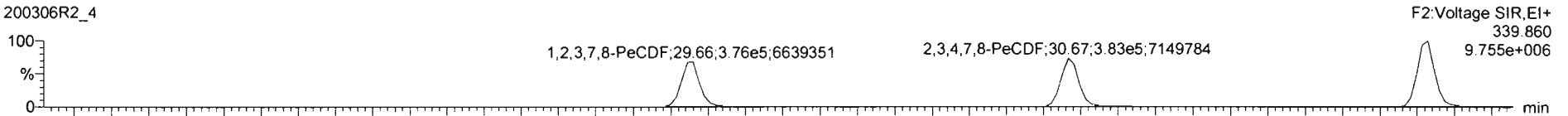
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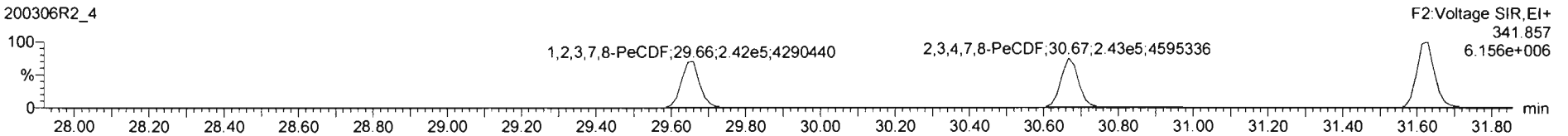
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1,2,3,7,8-PeCDF

200306R2_4

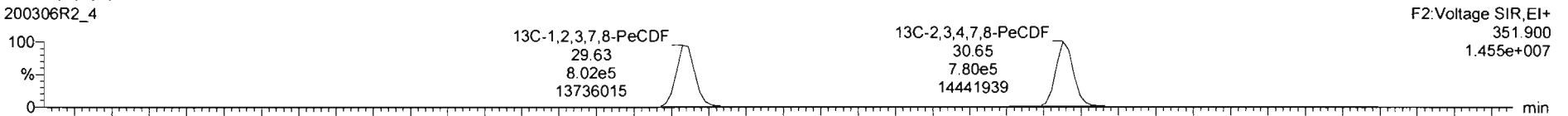


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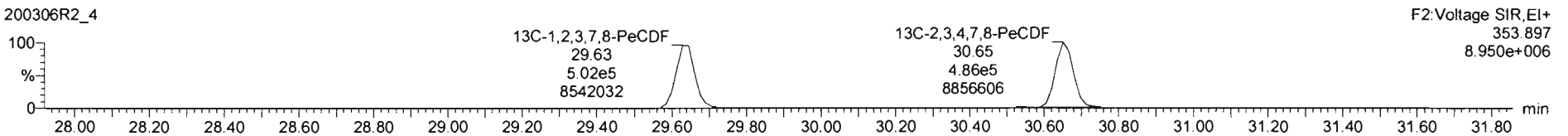


13C-1,2,3,7,8-PeCDF

200306R2_4

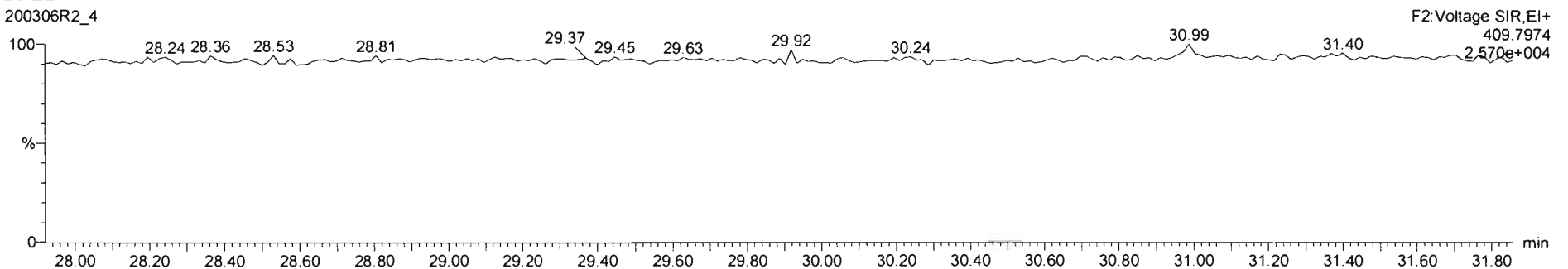


200306R2_4



DPE2

200306R2_4



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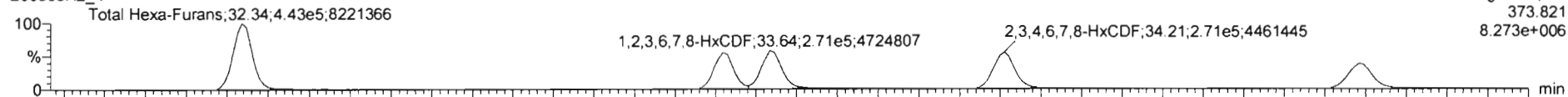
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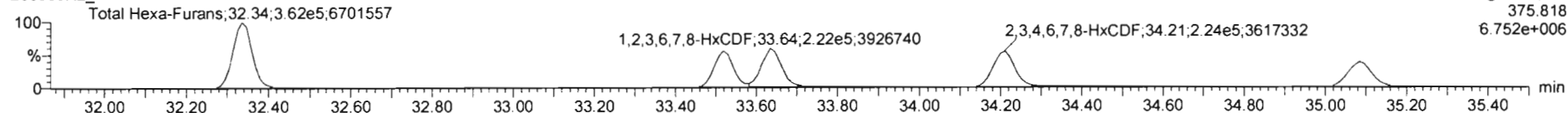
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1,2,3,4,7,8-HxCDF

200306R2_4

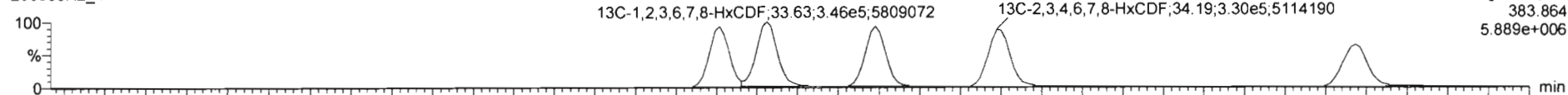


200306R2_4

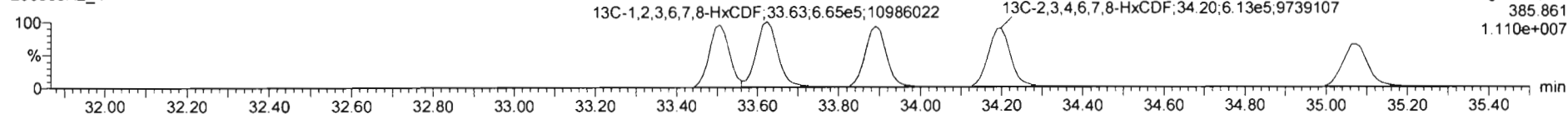


13C-1,2,3,4,7,8-HxCDF

200306R2_4

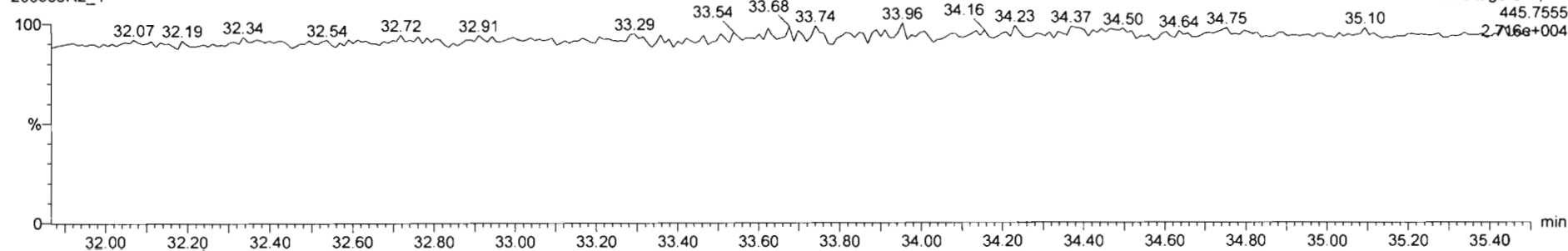


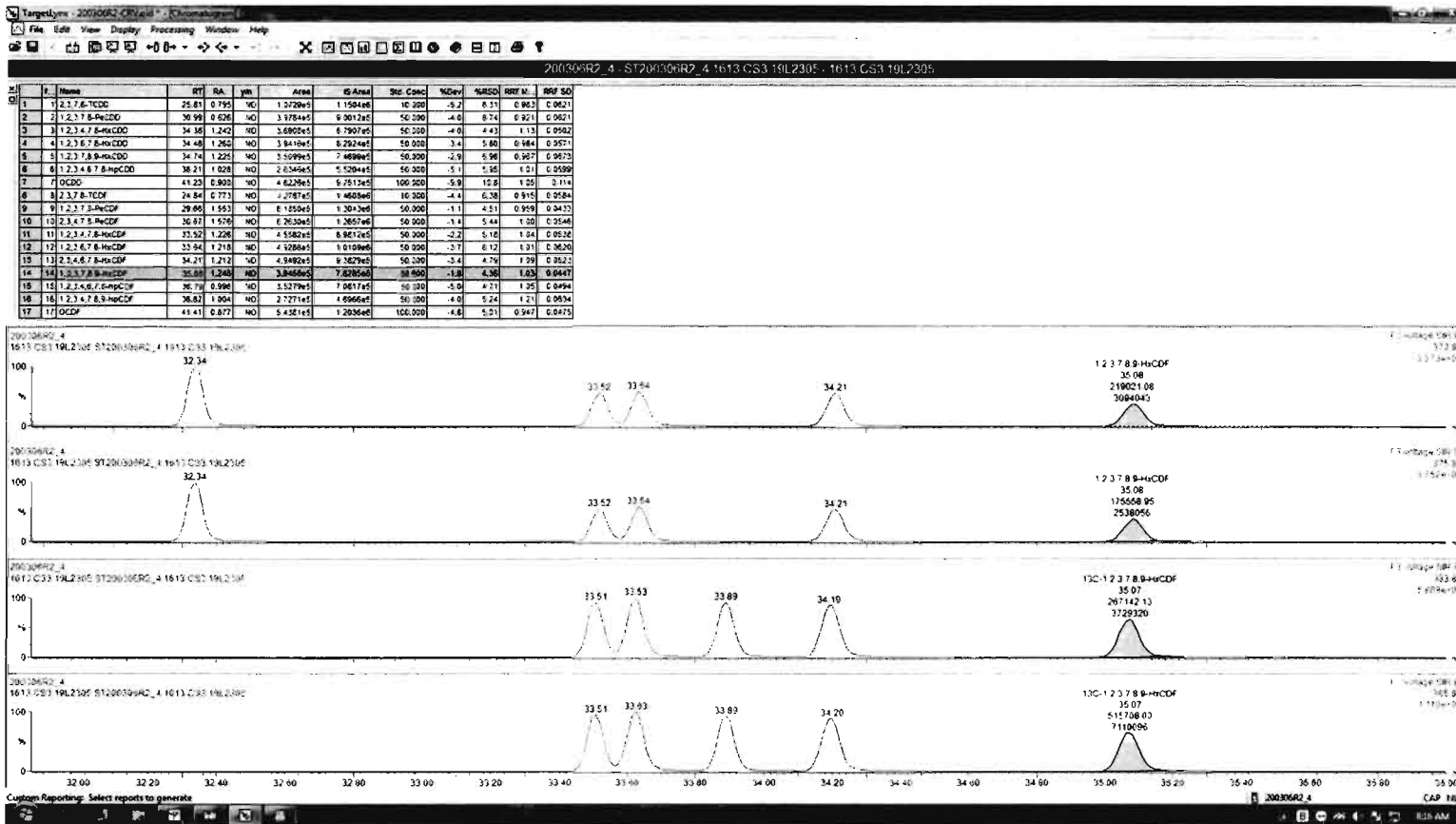
200306R2_4



DPE3

200306R2_4





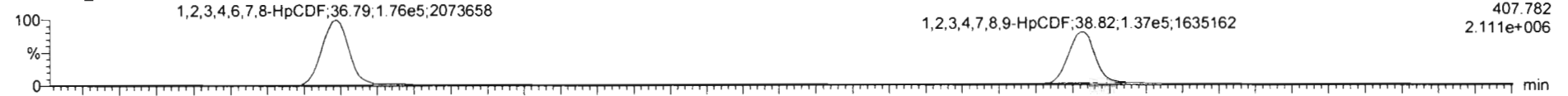
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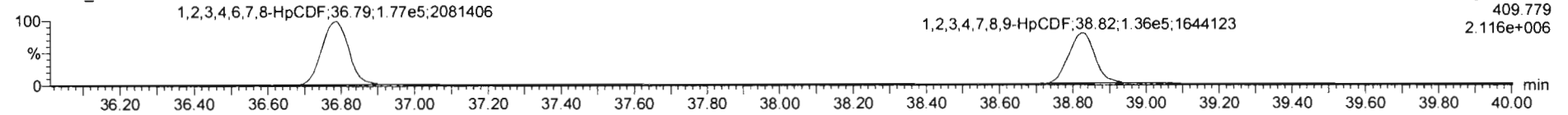
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1,2,3,4,6,7,8-HpCDF

200306R2_4

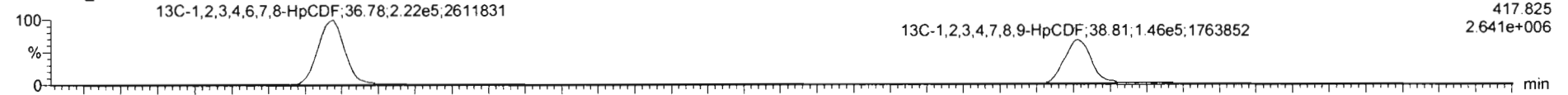


200306R2_4

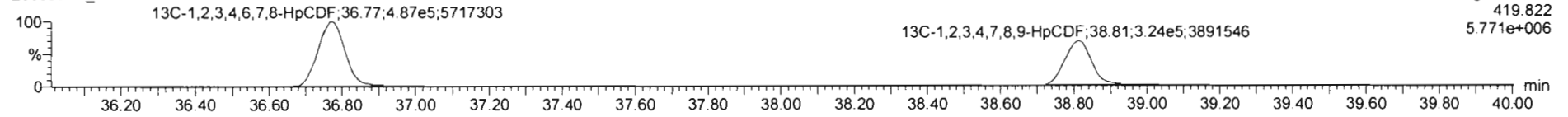


13C-1,2,3,4,6,7,8-HpCDF

200306R2_4

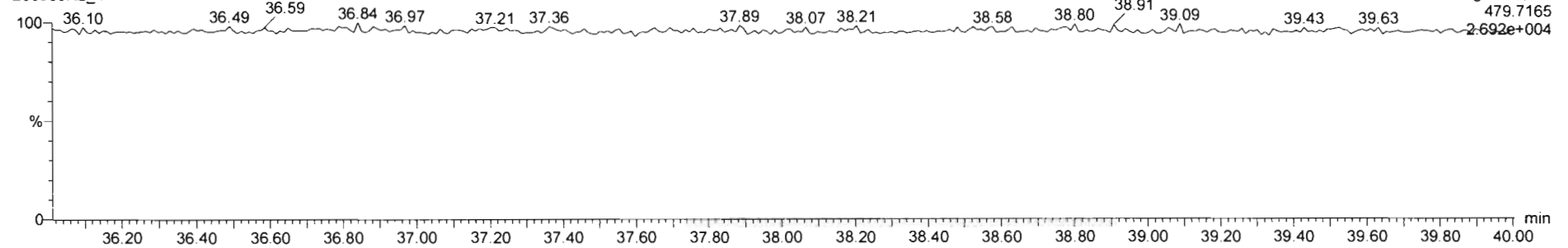


200306R2_4



DPE4

200306R2_4

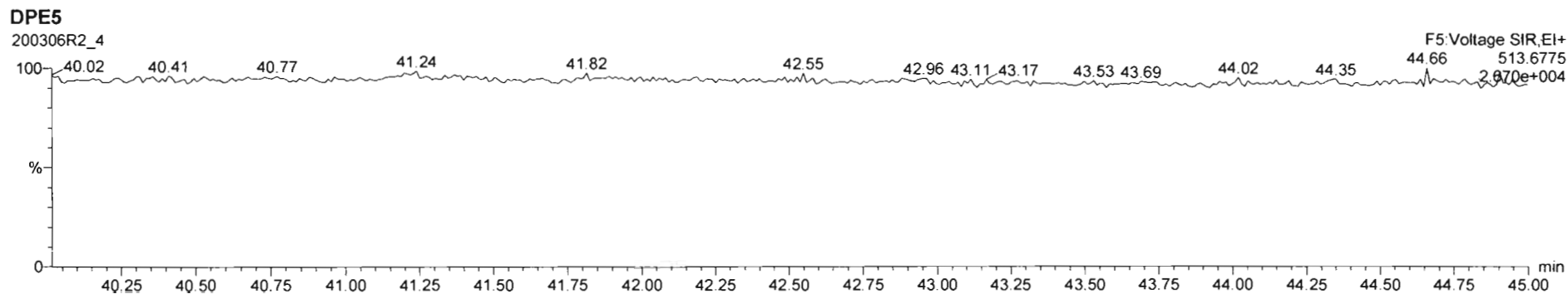
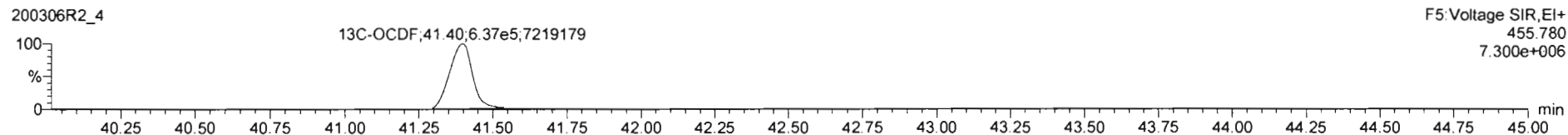
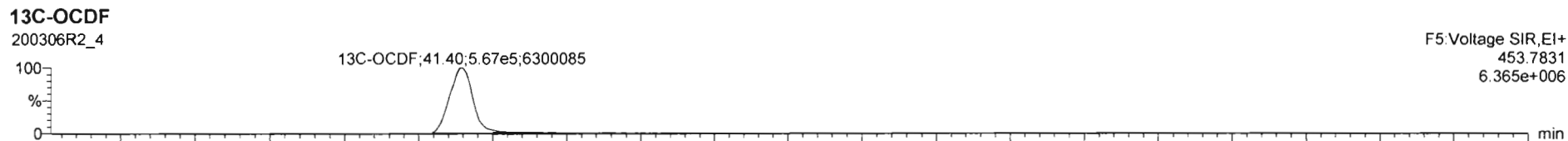
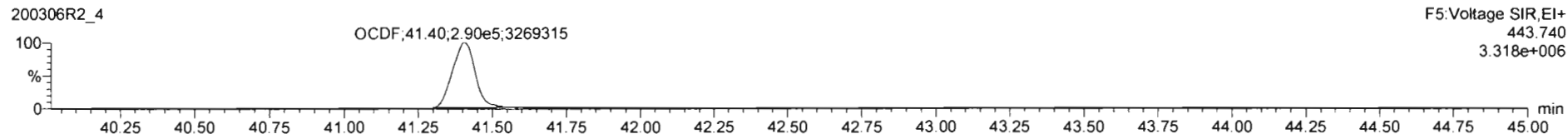
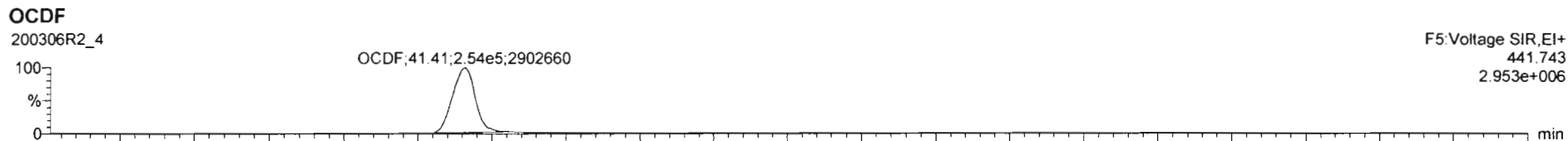


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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

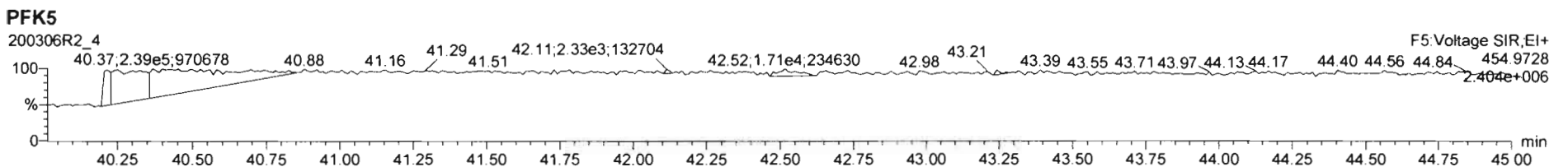
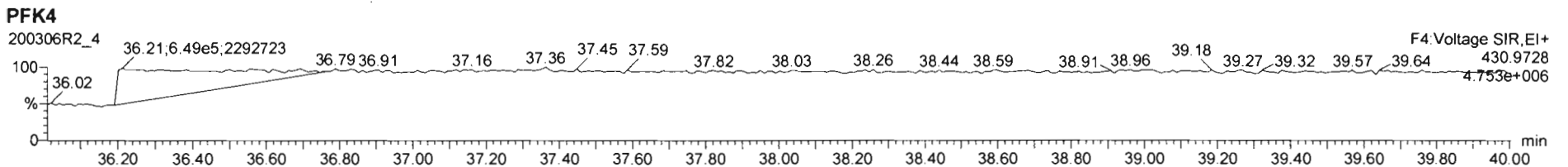
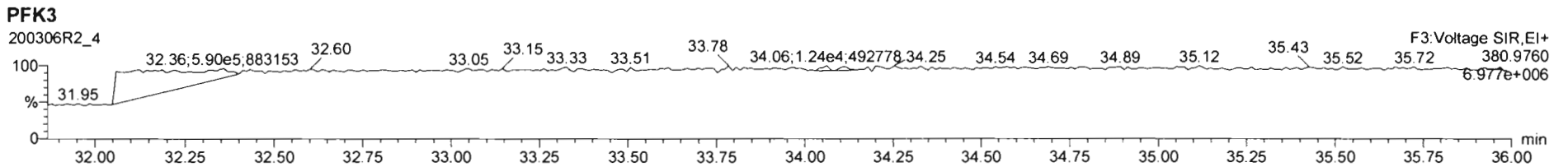
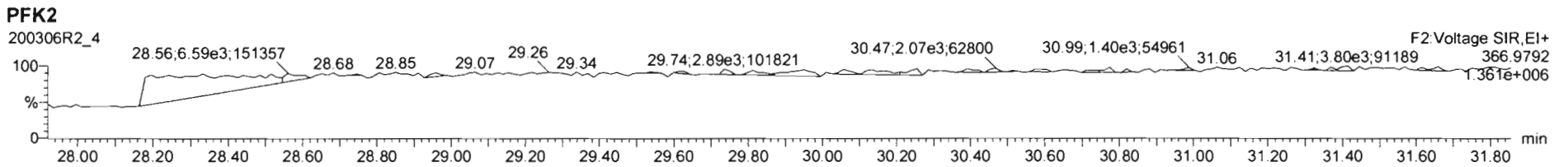
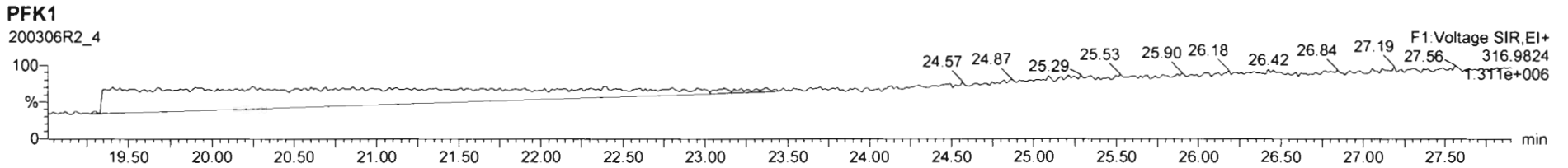
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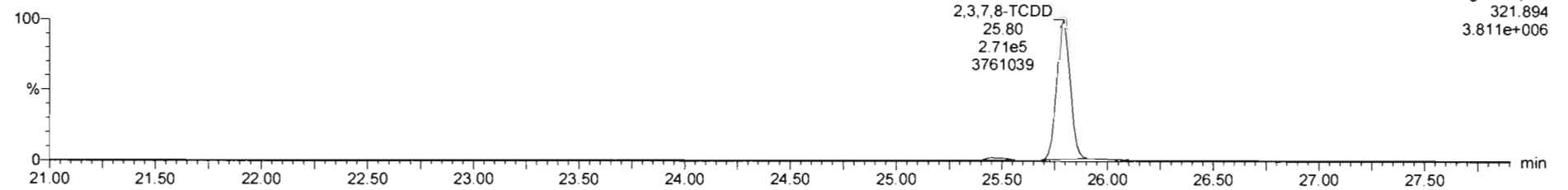
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2,3,7,8-TCDD

200306R2_5

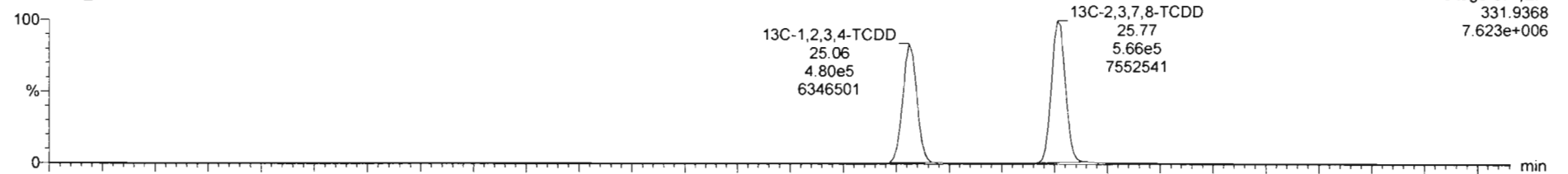


200306R2_5

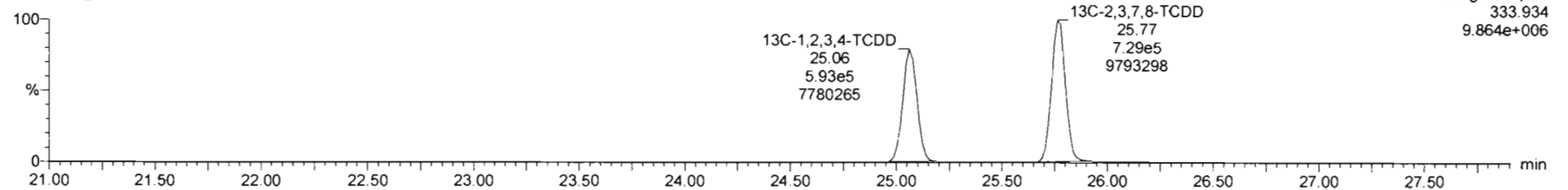


13C-2,3,7,8-TCDD

200306R2_5



200306R2_5



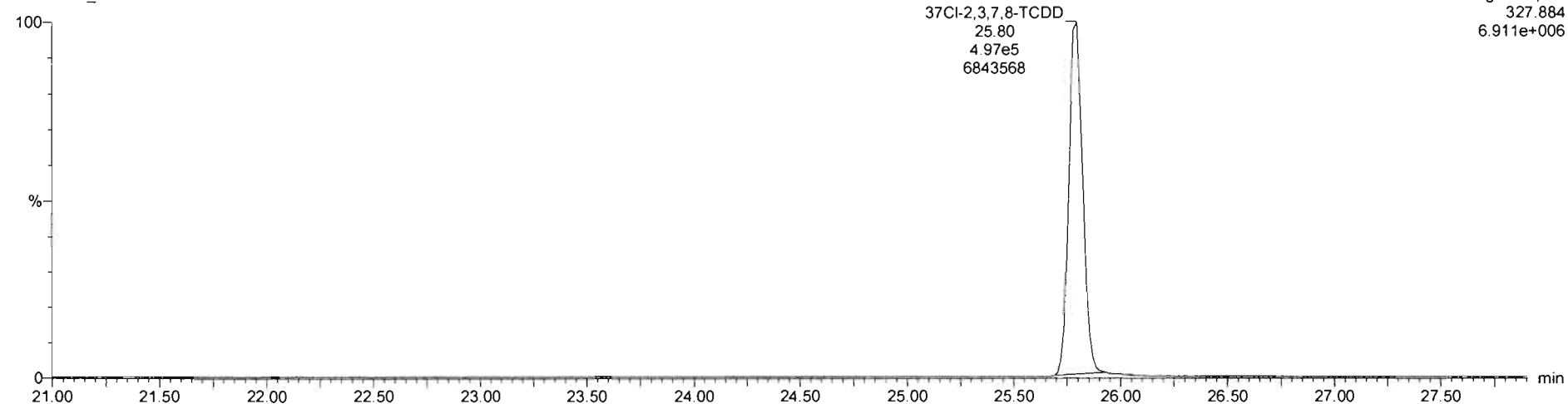
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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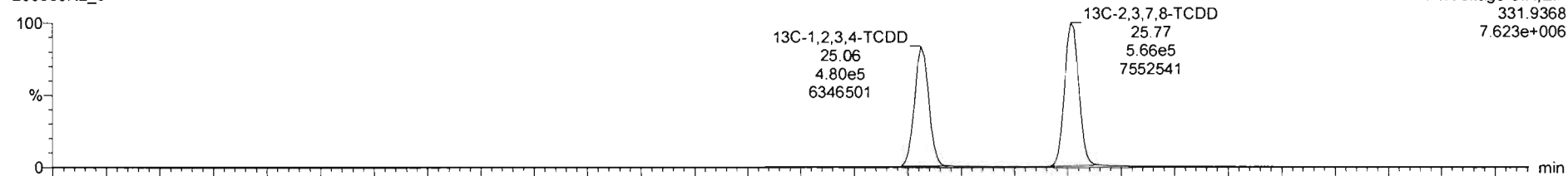
37Cl-2,3,7,8-TCDD

200306R2_5

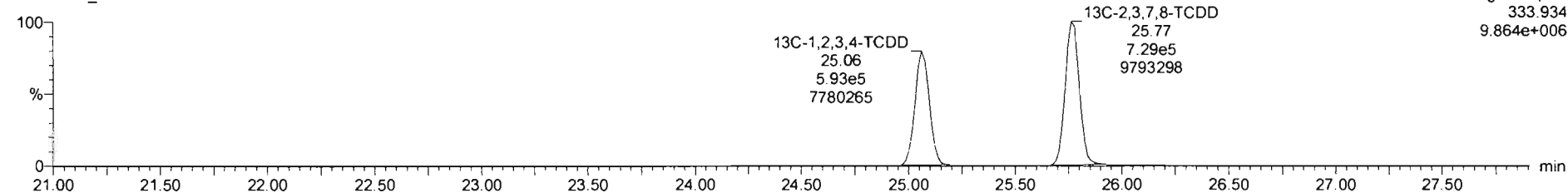


13C-1,2,3,4-TCDD

200306R2_5



200306R2_5



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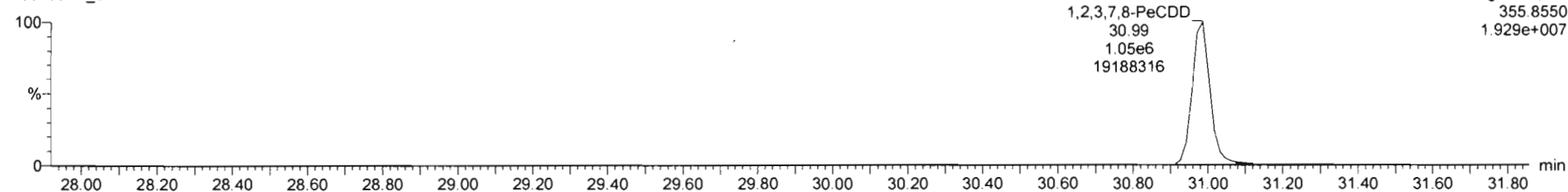
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1,2,3,7,8-PeCDD

200306R2_5

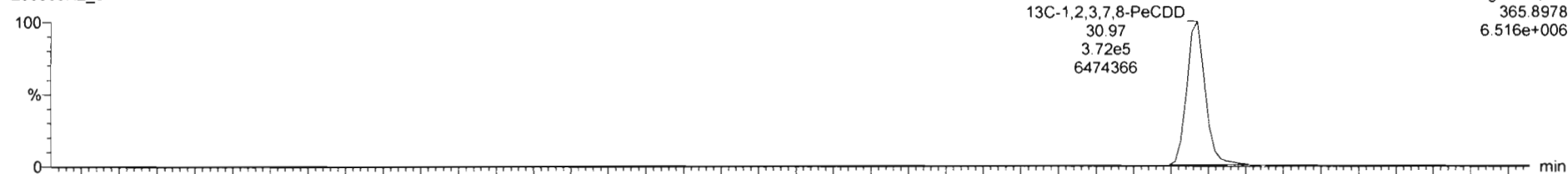


200306R2_5

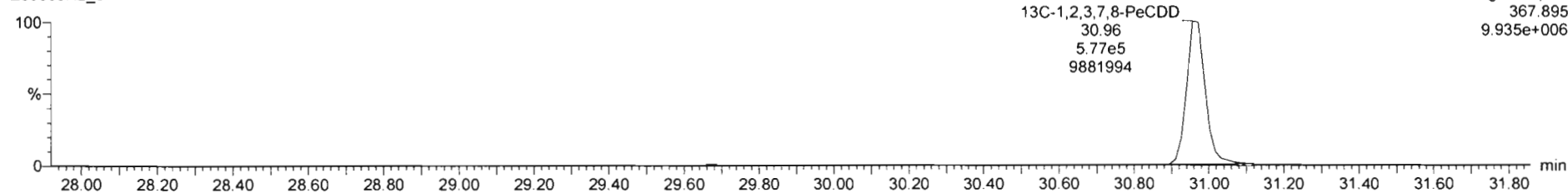


13C-1,2,3,7,8-PeCDD

200306R2_5



200306R2_5



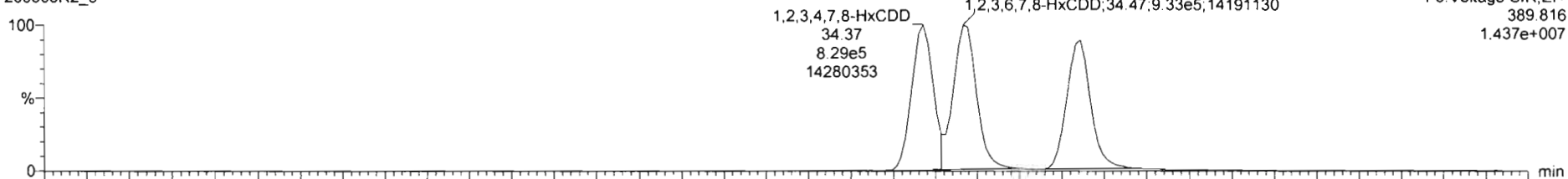
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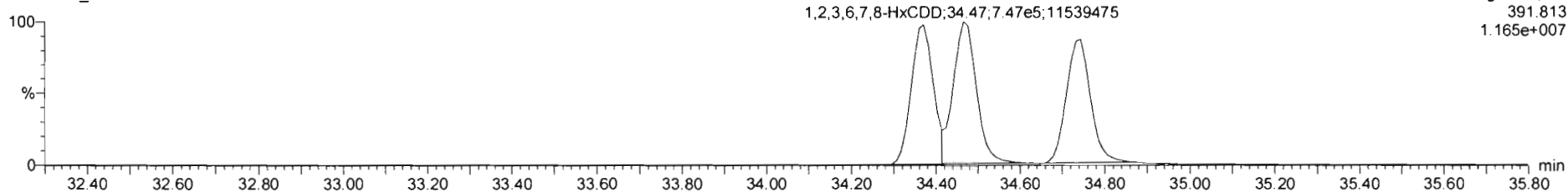
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1,2,3,4,7,8-HxCDD

200306R2_5

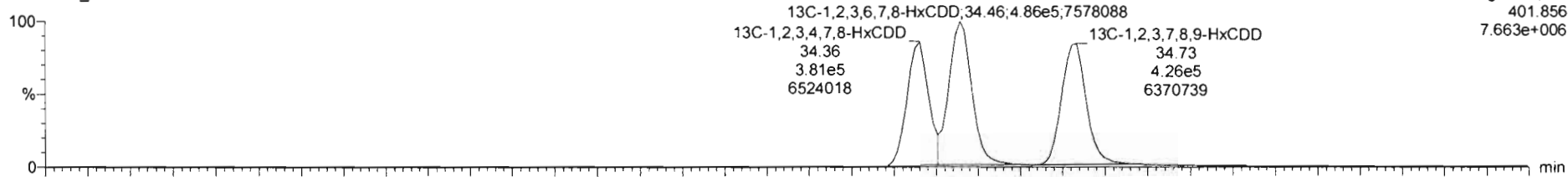


200306R2_5

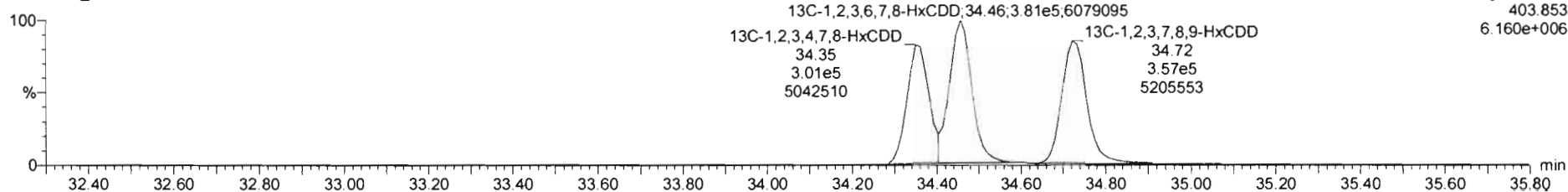


13C-1,2,3,4,7,8-HxCDD

200306R2_5



200306R2_5



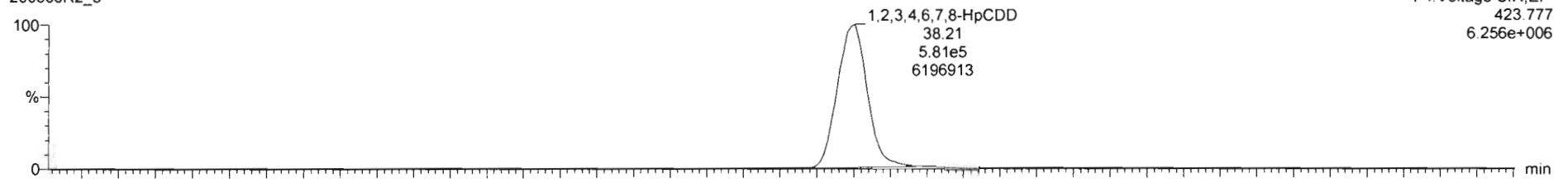
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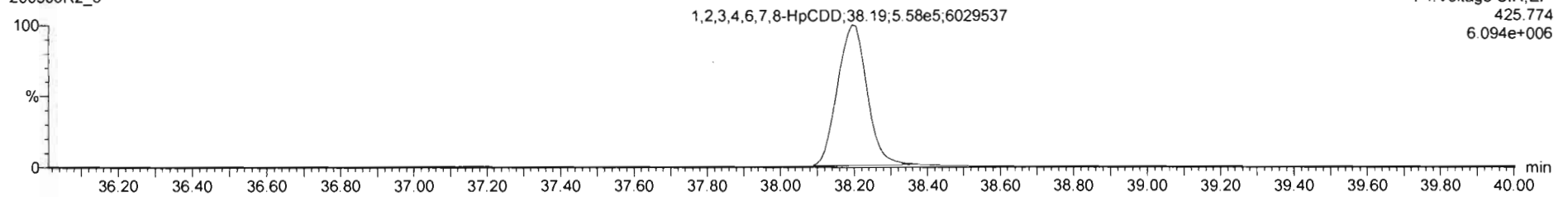
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1,2,3,4,6,7,8-HpCDD

200306R2_5

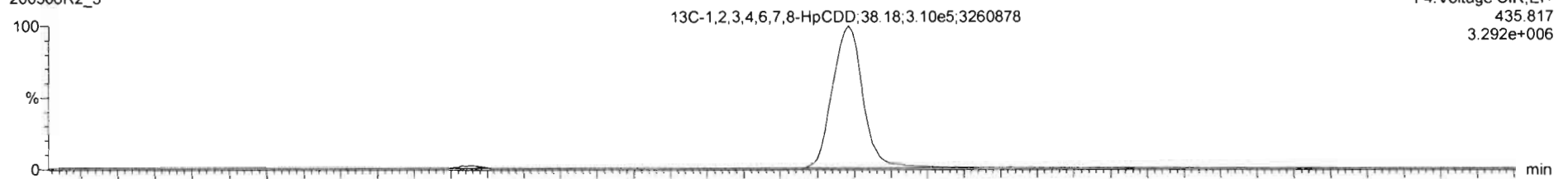


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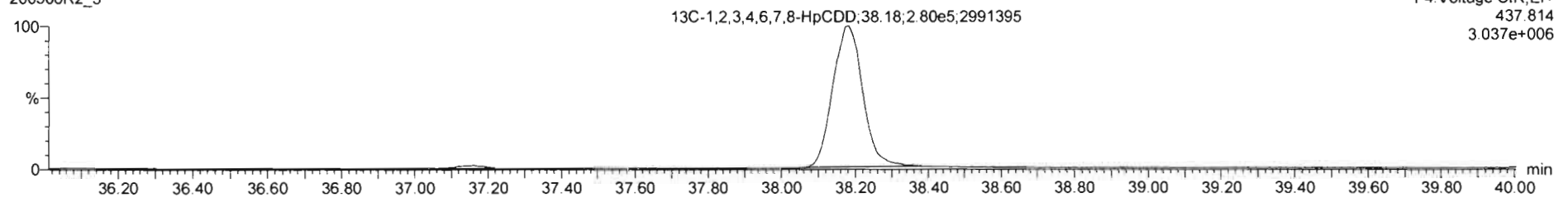


13C-1,2,3,4,6,7,8-HpCDD

200306R2_5



200306R2_5



Dataset: Untitled

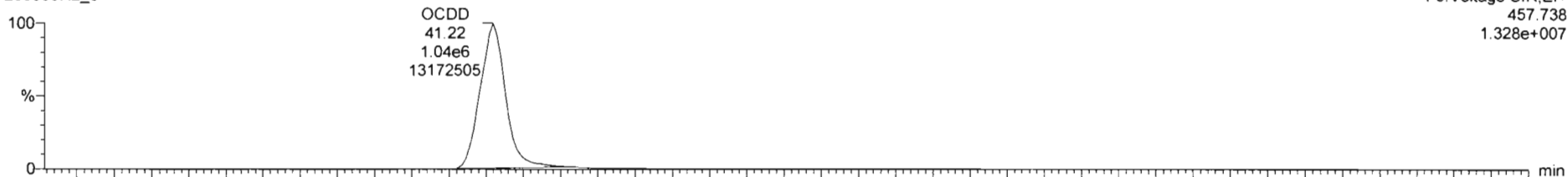
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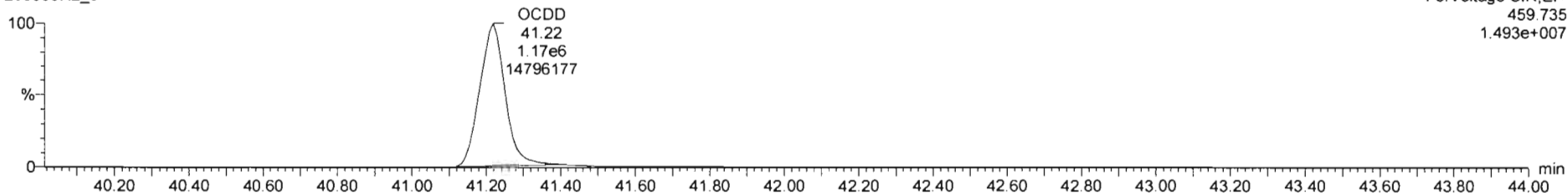
OCDD

200306R2_5



F5: Voltage SIR, EI+
457.738
1.328e+007

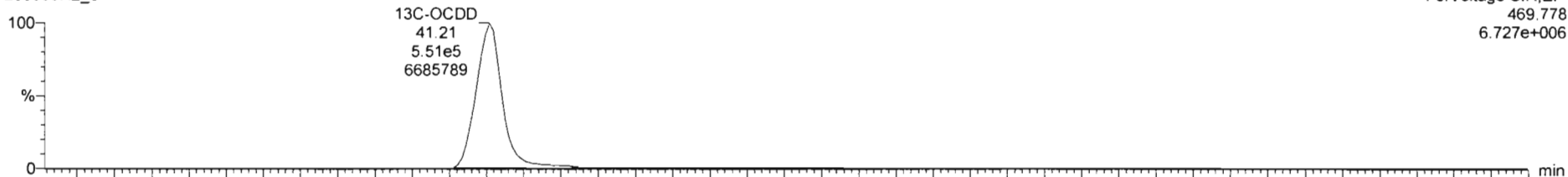
200306R2_5



F5: Voltage SIR, EI+
459.735
1.493e+007

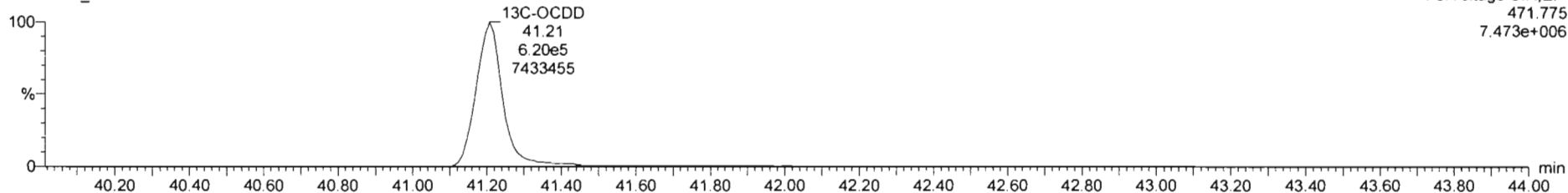
13C-OCDD

200306R2_5



F5: Voltage SIR, EI+
469.778
6.727e+006

200306R2_5



F5: Voltage SIR, EI+
471.775
7.473e+006

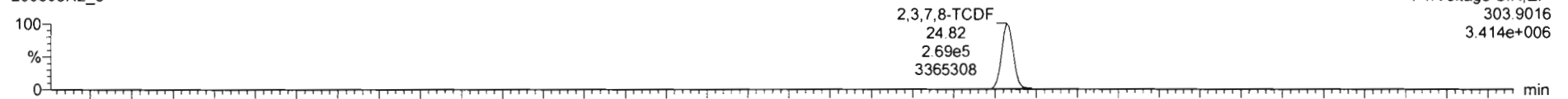
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

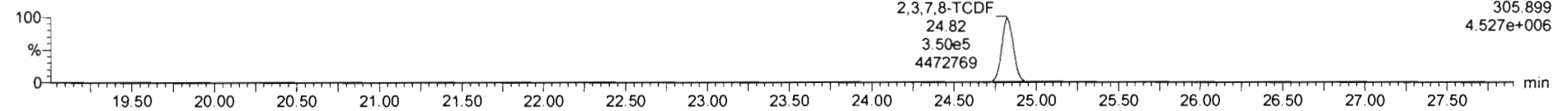
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2,3,7,8-TCDF

200306R2_5

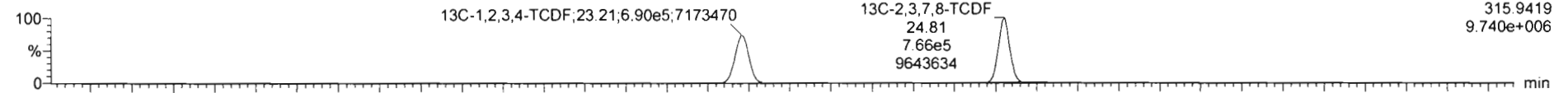


200306R2_5

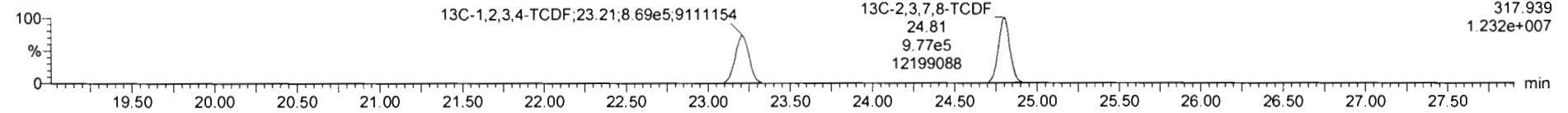


13C-2,3,7,8-TCDF

200306R2_5

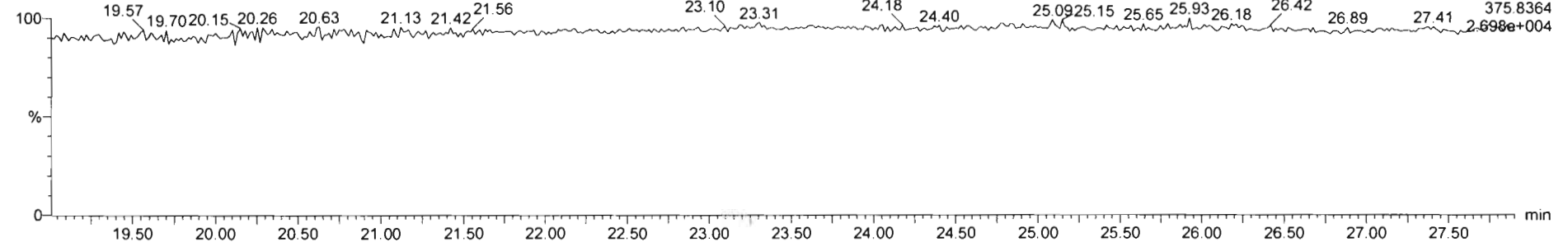


200306R2_5



DPE1

200306R2_5

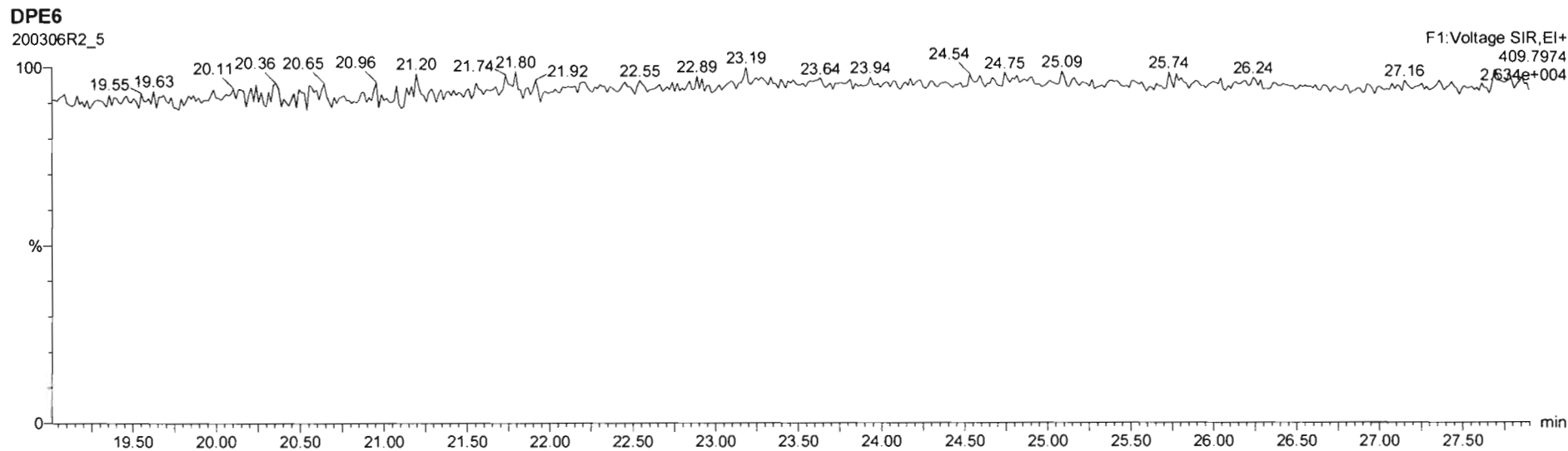
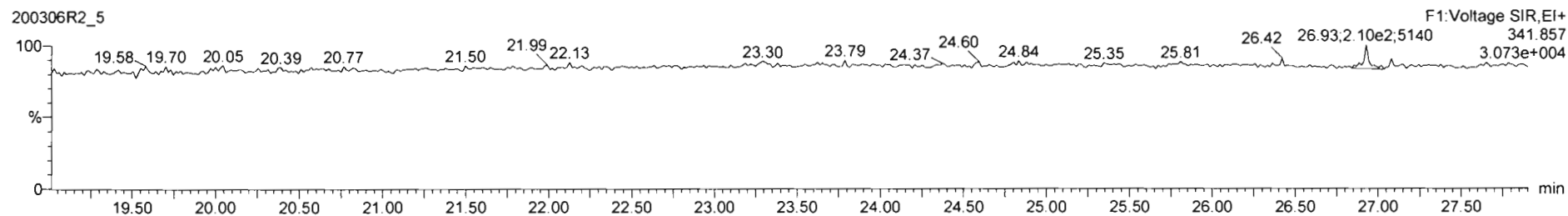
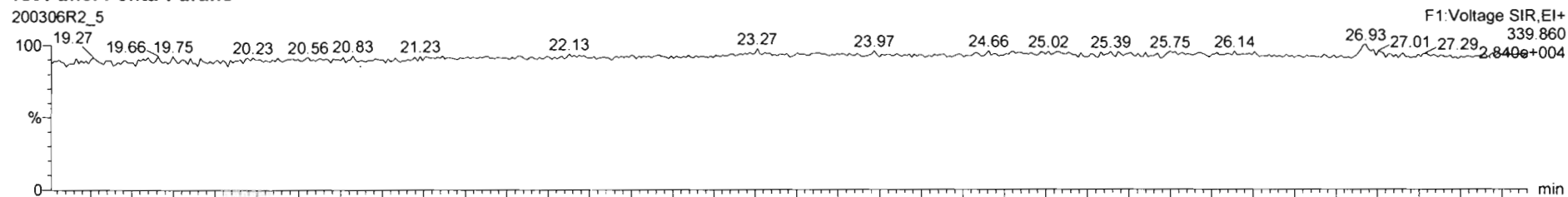


Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
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Name: 200306R2_5, Date: 06-Mar-2020, Time: 16:19:37, ID: ST200306R2_5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

1st Func. Penta-Furans



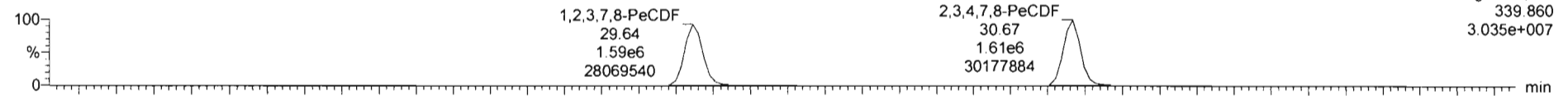
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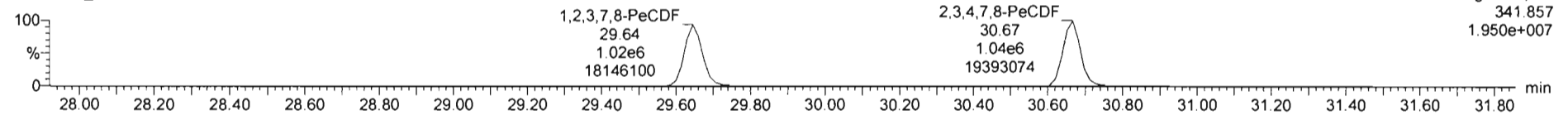
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1,2,3,7,8-PeCDF

200306R2_5

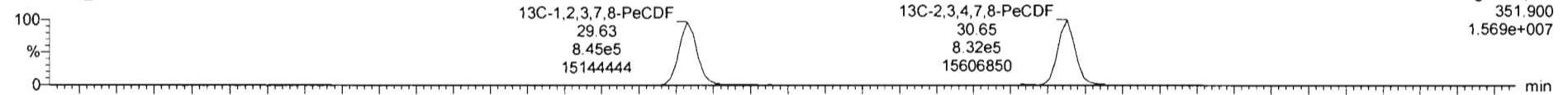


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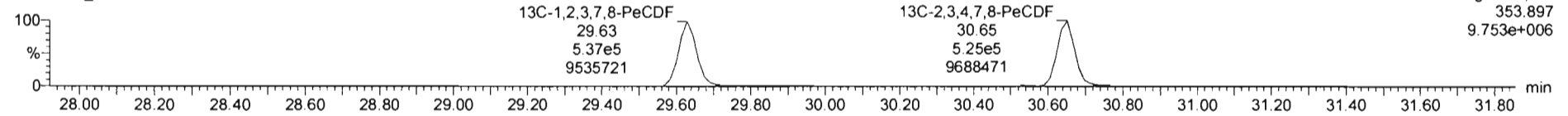


13C-1,2,3,7,8-PeCDF

200306R2_5

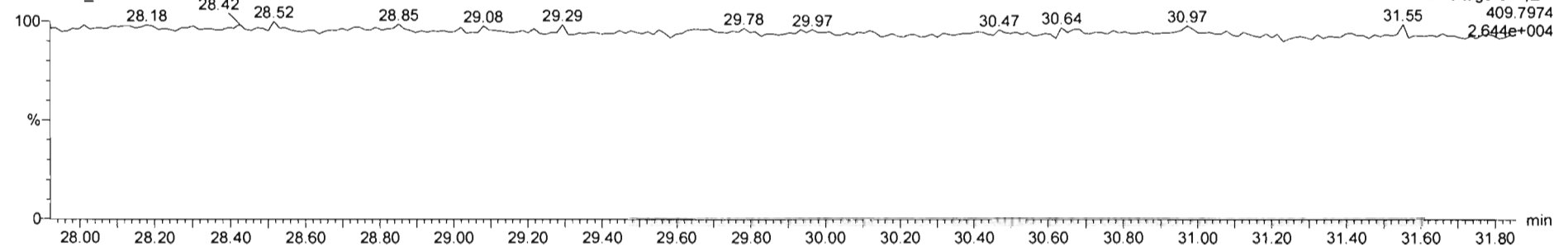


200306R2_5



DPE2

200306R2_5



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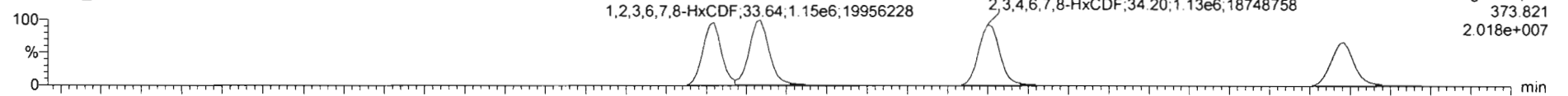
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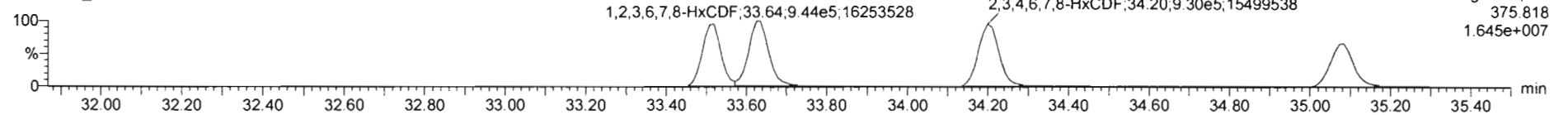
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1,2,3,4,7,8-HxCDF

200306R2_5

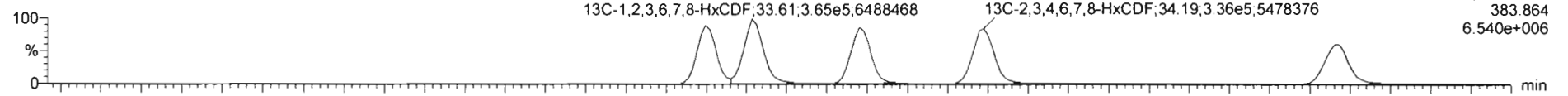


200306R2_5

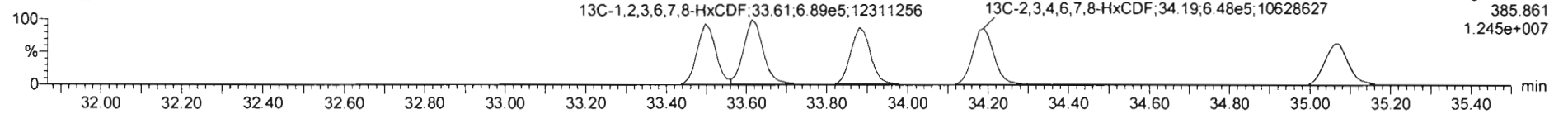


13C-1,2,3,4,7,8-HxCDF

200306R2_5

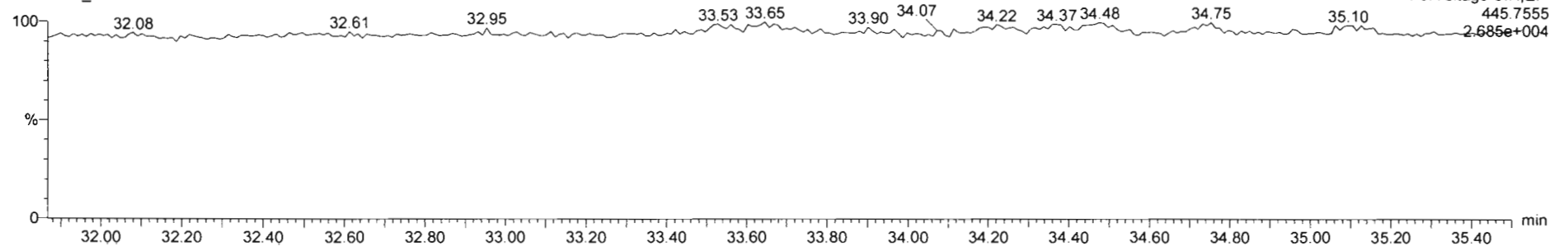


200306R2_5



DPE3

200306R2_5



Dataset: Untitled

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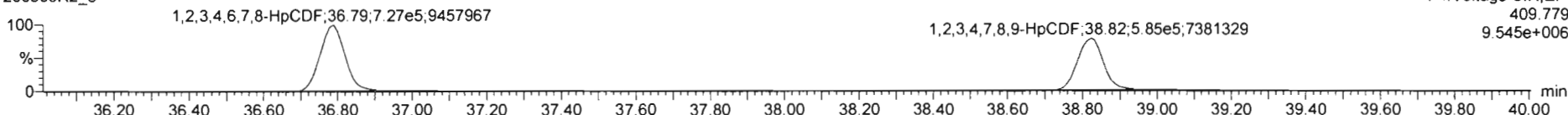
1,2,3,4,6,7,8-HpCDF

200306R2_5



F4: Voltage SIR, EI+
407.782
9.536e+006

200306R2_5



F4: Voltage SIR, EI+
409.779
9.545e+006

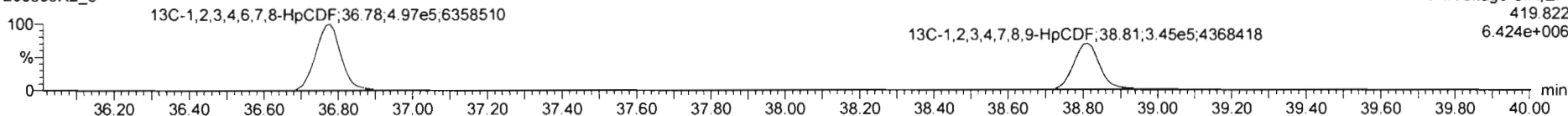
13C-1,2,3,4,6,7,8-HpCDF

200306R2_5



F4: Voltage SIR, EI+
417.825
2.881e+006

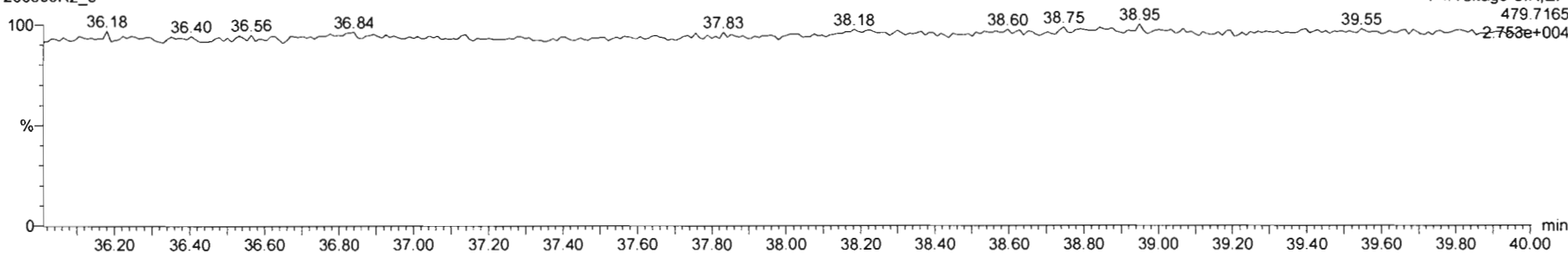
200306R2_5



F4: Voltage SIR, EI+
419.822
6.424e+006

DPE4

200306R2_5



F4: Voltage SIR, EI+
479.7165
2.753e+004

Dataset: Untitled

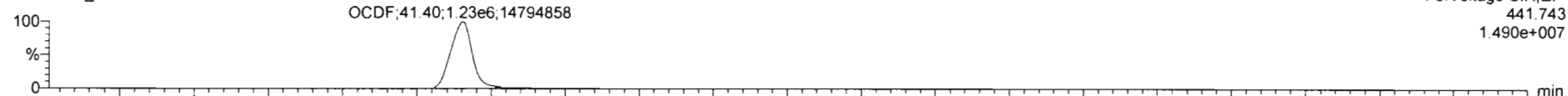
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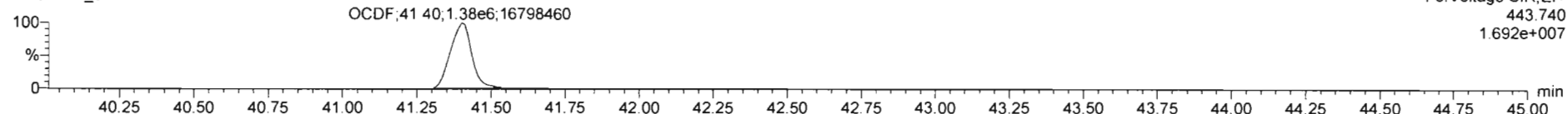
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OCDF

200306R2_5

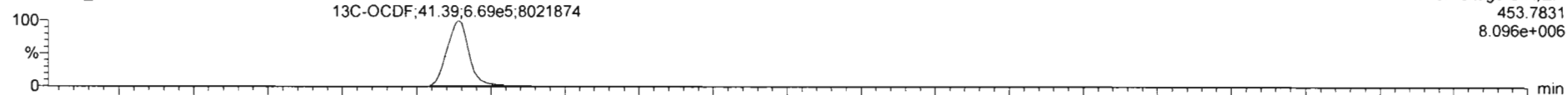


200306R2_5

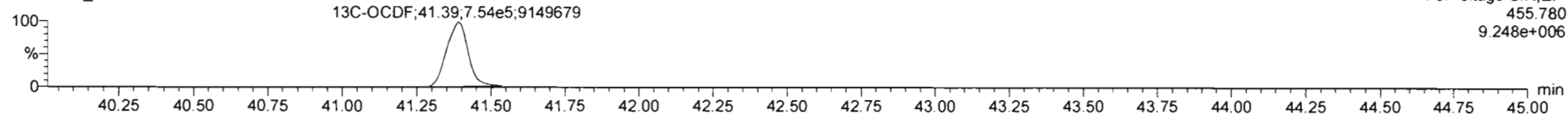


13C-OCDF

200306R2_5

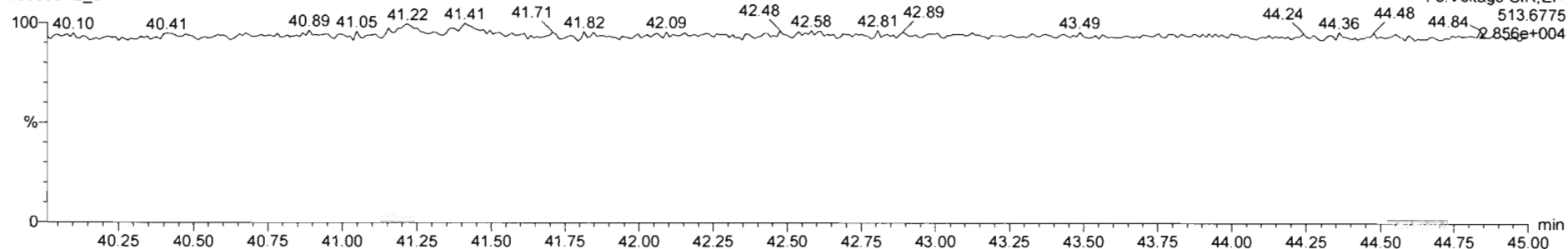


200306R2_5



DPE5

200306R2_5



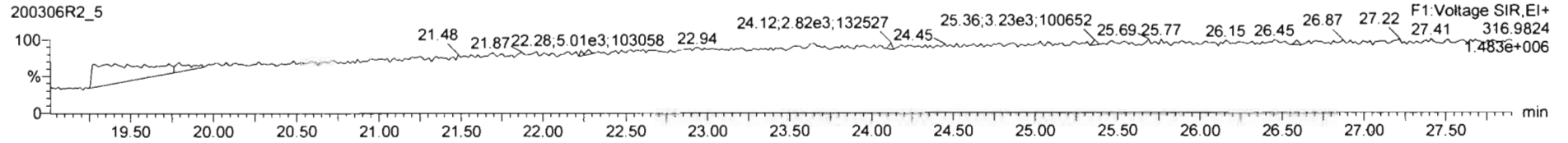
Dataset: Untitled

Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time

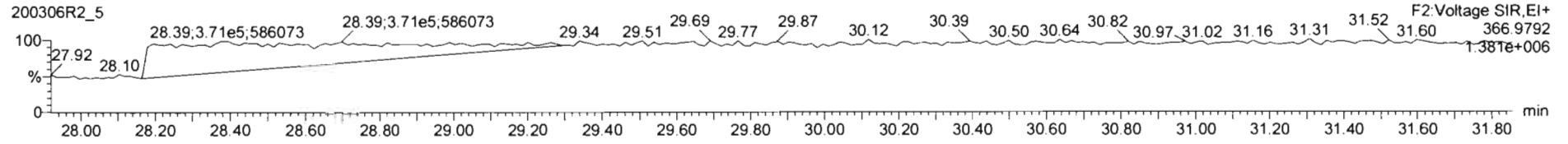
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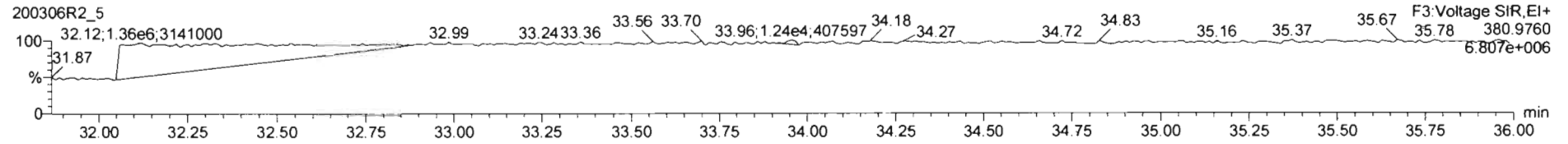
PFK1



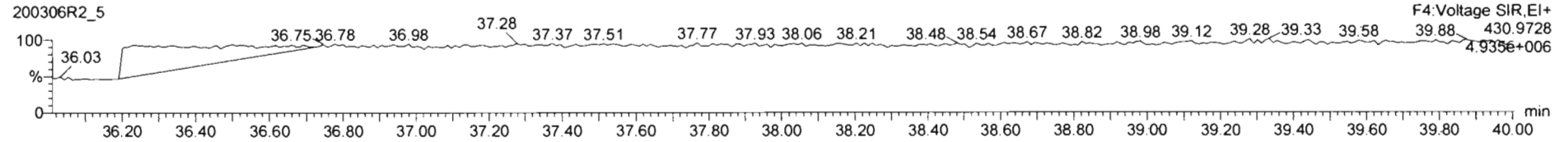
PFK2



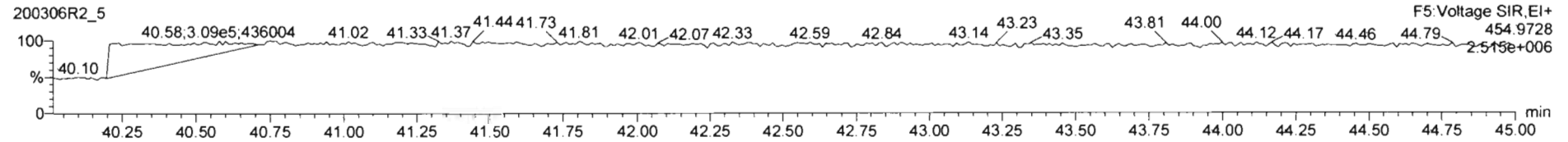
PFK3



PFK4



PFK5



Dataset: Untitled

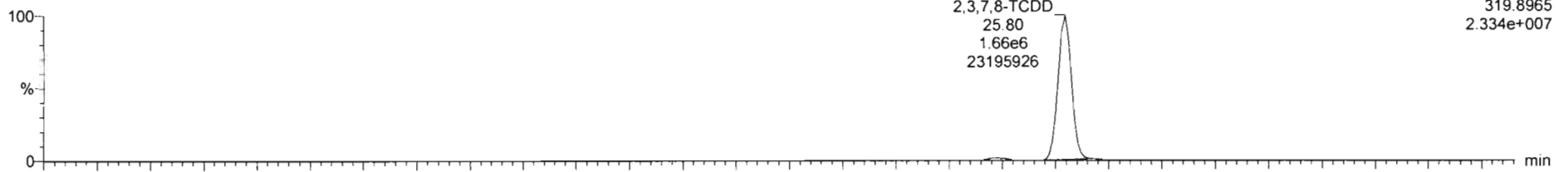
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

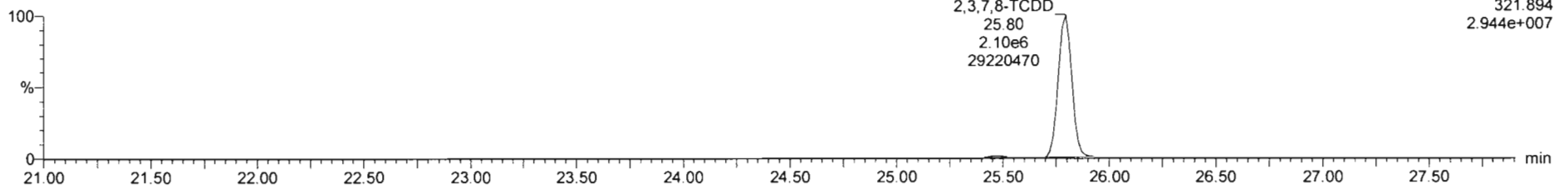
Name: 200306R2_6; Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

2,3,7,8-TCDD

200306R2_6

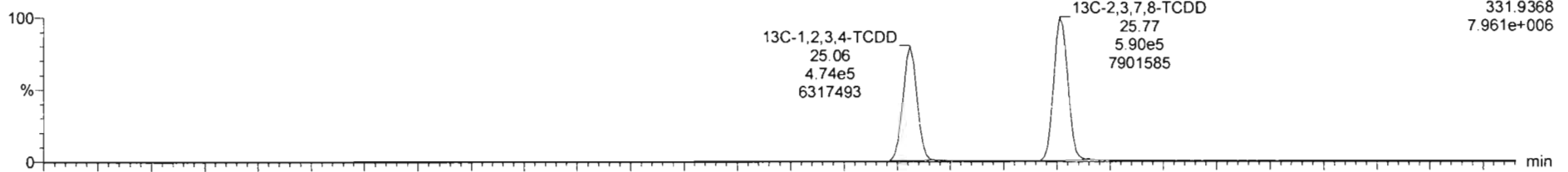


200306R2_6

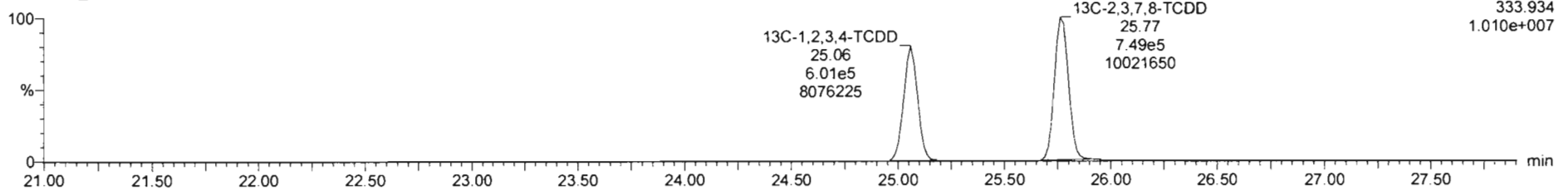


13C-2,3,7,8-TCDD

200306R2_6



200306R2_6



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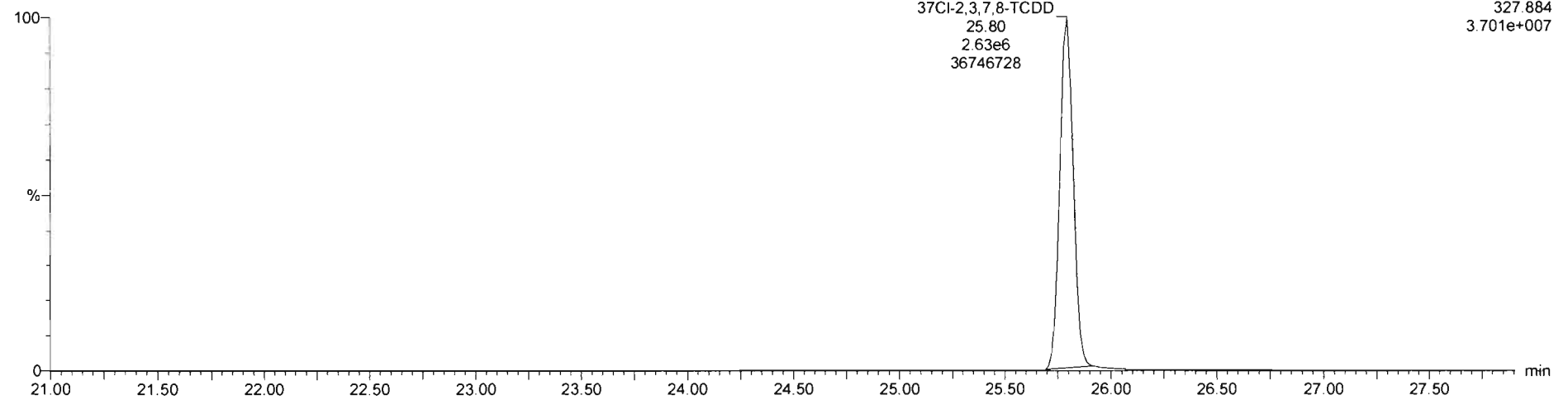
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Name: 200306R2_6; Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

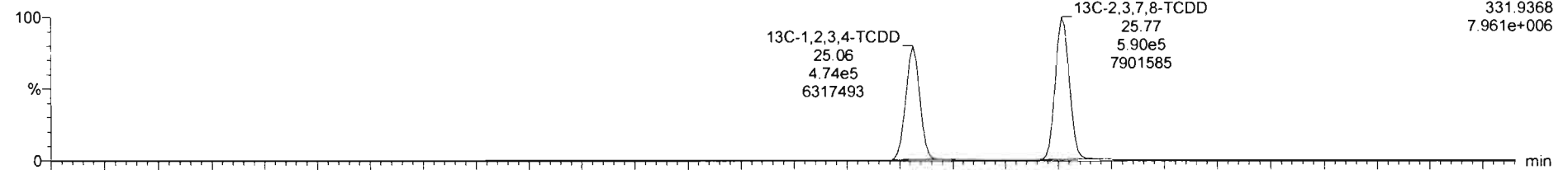
37Cl-2,3,7,8-TCDD

200306R2_6

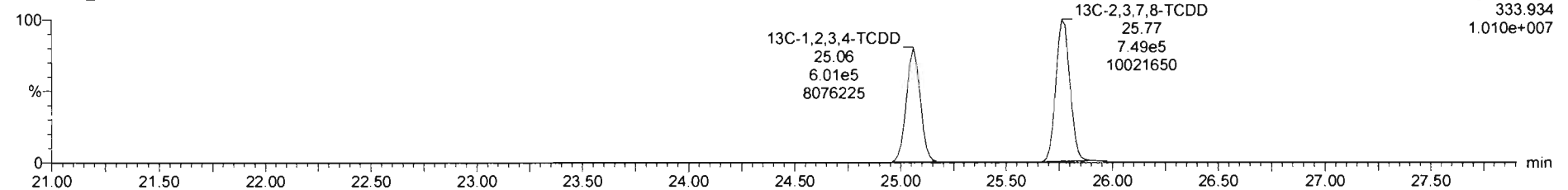


13C-1,2,3,4-TCDD

200306R2_6



200306R2_6



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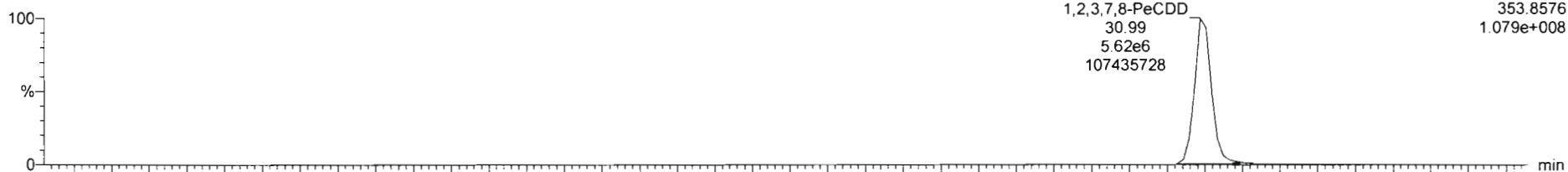
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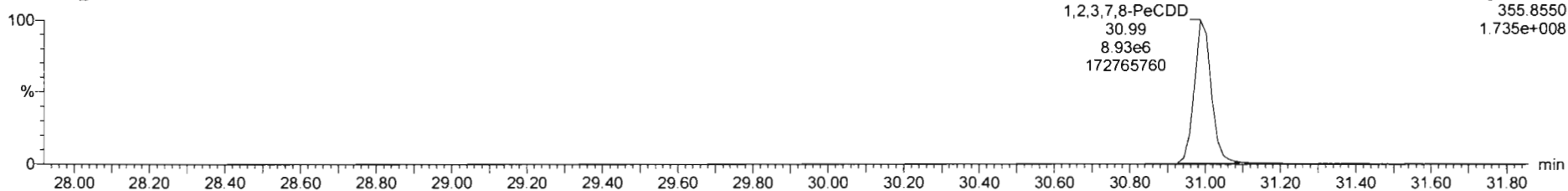
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1,2,3,7,8-PeCDD

200306R2_6

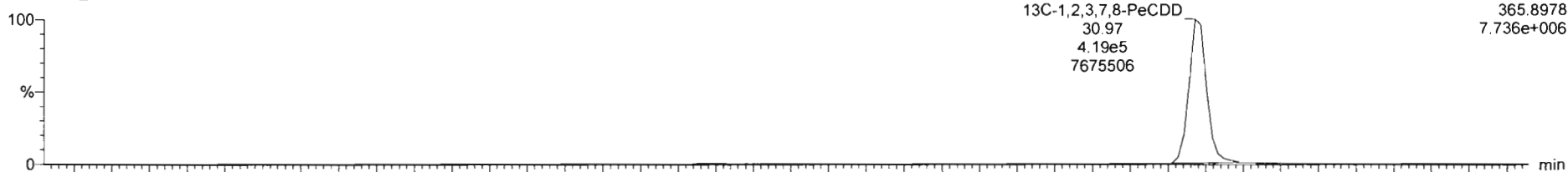


200306R2_6

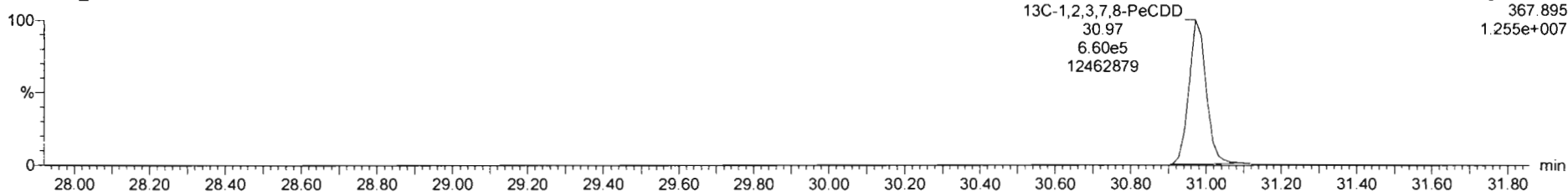


13C-1,2,3,7,8-PeCDD

200306R2_6



200306R2_6



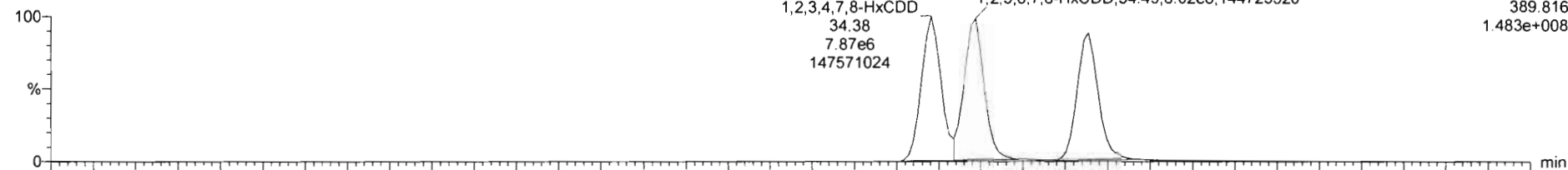
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

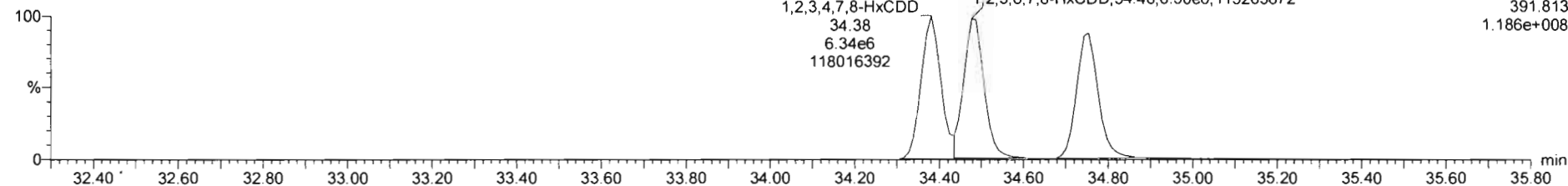
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1,2,3,4,7,8-HxCDD

200306R2_6

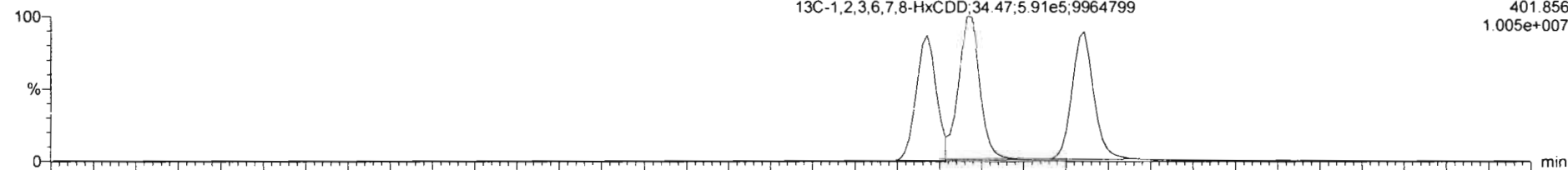


200306R2_6

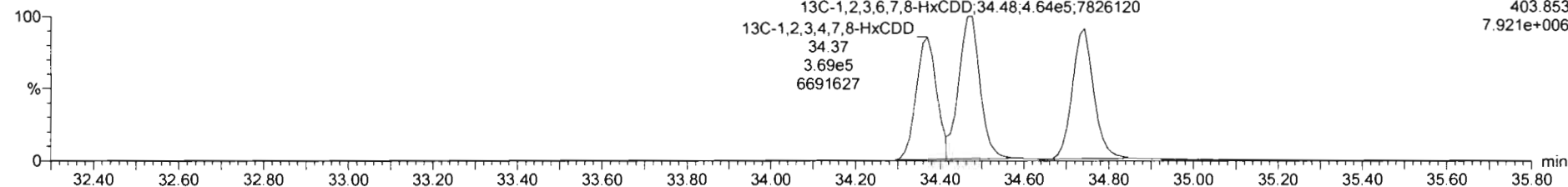


13C-1,2,3,4,7,8-HxCDD

200306R2_6



200306R2_6



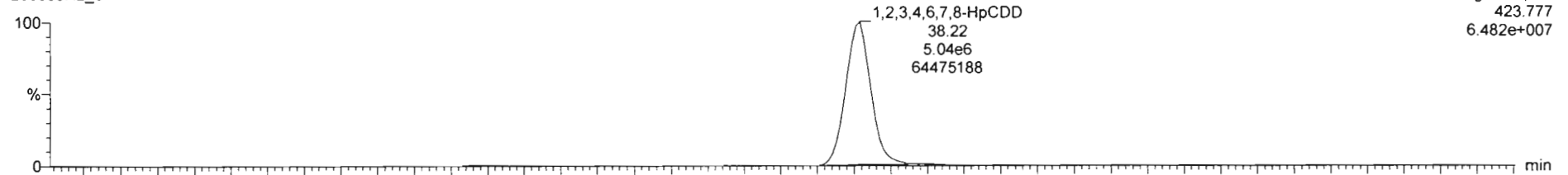
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

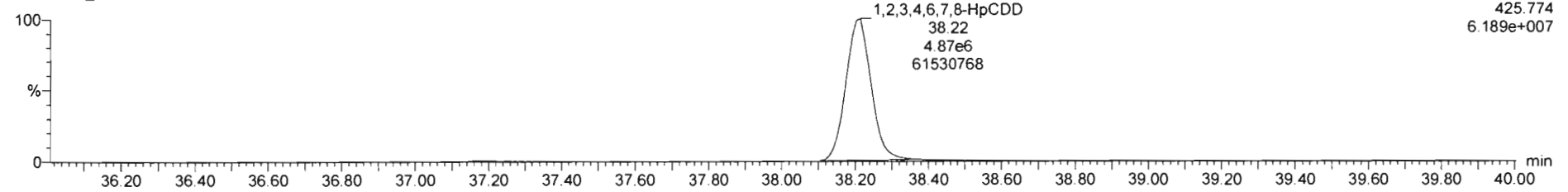
1,2,3,4,6,7,8-HpCDD

200306R2_6



F4: Voltage SIR, EI+
423.777
6.482e+007

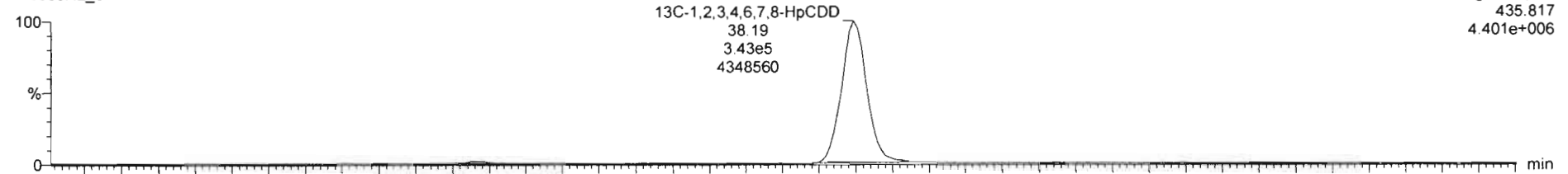
200306R2_6



F4: Voltage SIR, EI+
425.774
6.189e+007

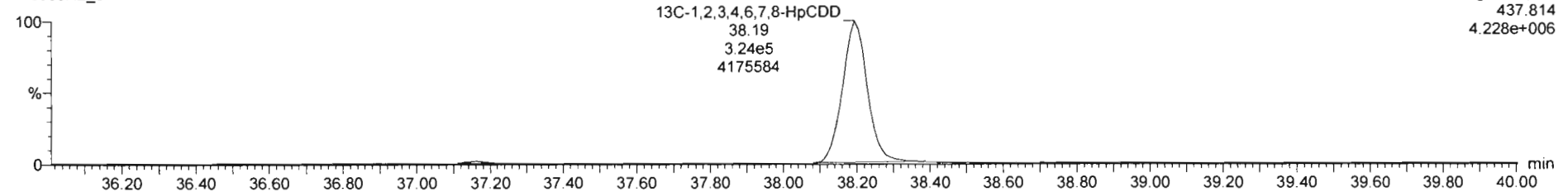
13C-1,2,3,4,6,7,8-HpCDD

200306R2_6



F4: Voltage SIR, EI+
435.817
4.401e+006

200306R2_6



F4: Voltage SIR, EI+
437.814
4.228e+006

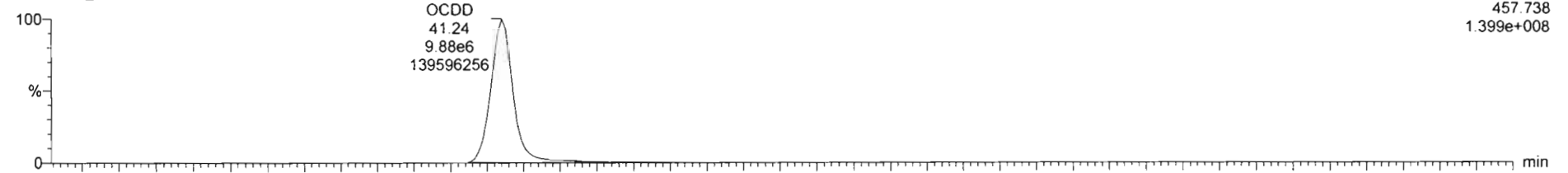
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

Name: 200306R2_6, Date: 06-Mar-2020, Time: 17:07:03, ID: ST200306R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

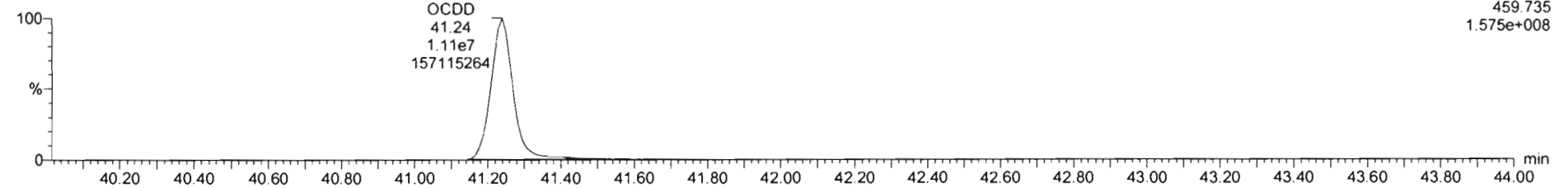
OCDD

200306R2_6



F5:Voltage SIR,EI+
457.738
1.399e+008

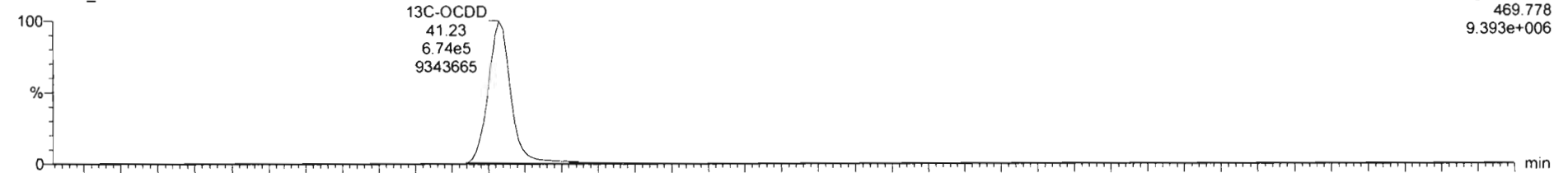
200306R2_6



F5:Voltage SIR,EI+
459.735
1.575e+008

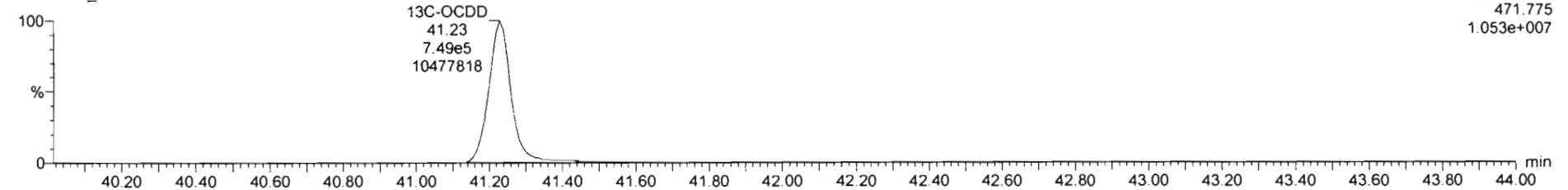
13C-OCDD

200306R2_6

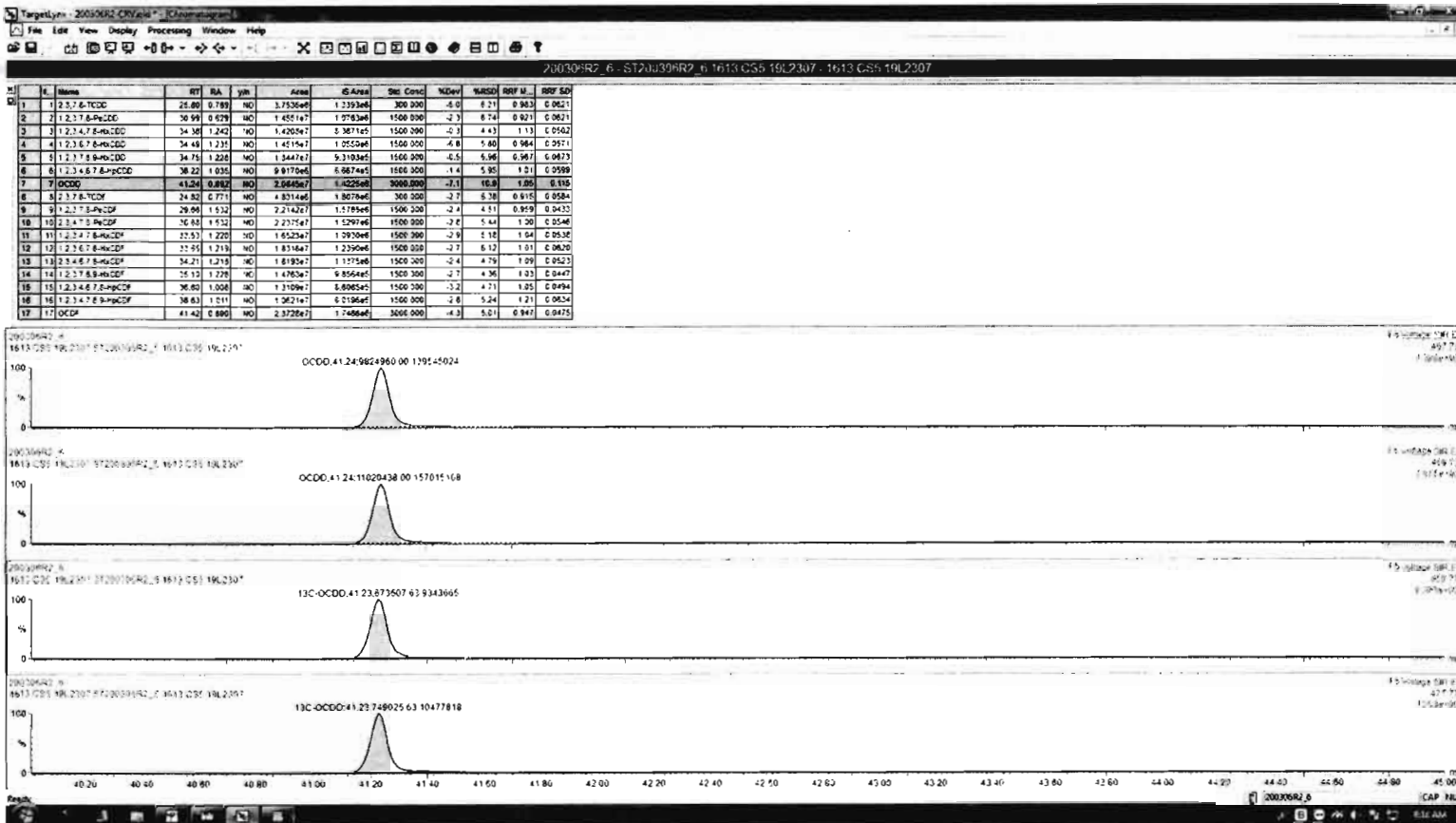


F5:Voltage SIR,EI+
469.778
9.393e+006

200306R2_6



F5:Voltage SIR,EI+
471.775
1.053e+007



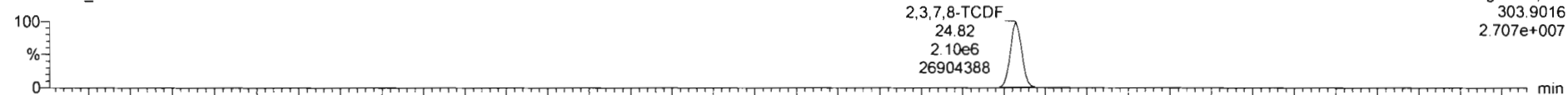
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

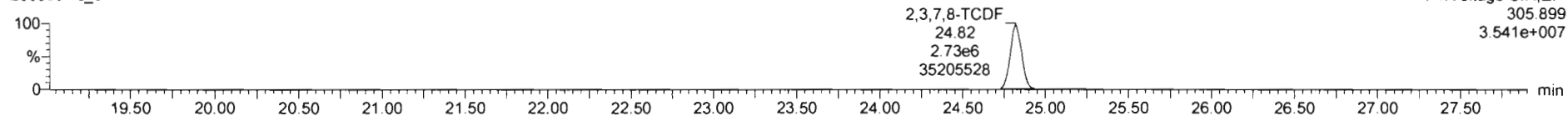
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2,3,7,8-TCDF

200306R2_6

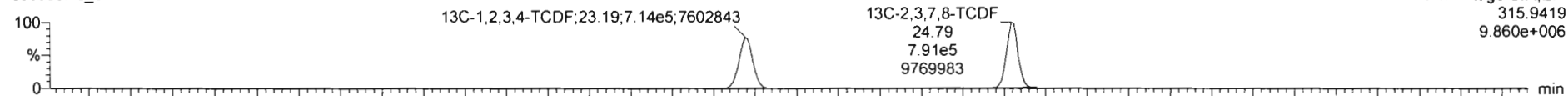


200306R2_6

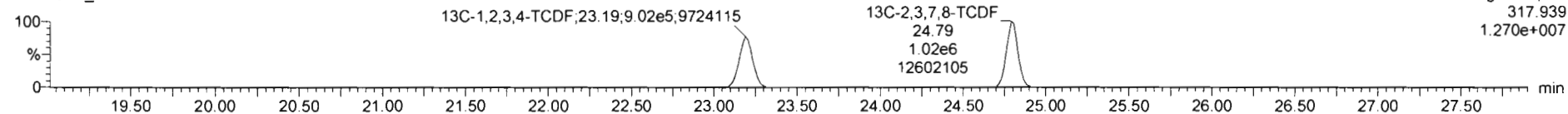


13C-2,3,7,8-TCDF

200306R2_6

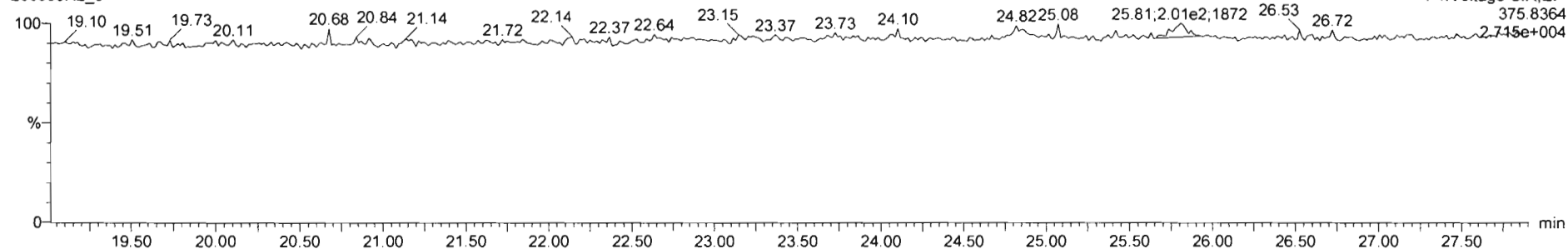


200306R2_6



DPE1

200306R2_6



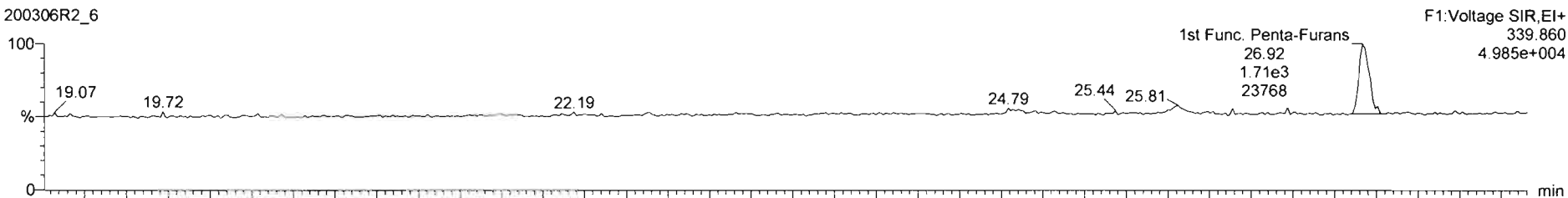
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Last Altered: Monday, March 09, 2020 08:23:06 Pacific Daylight Time
Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

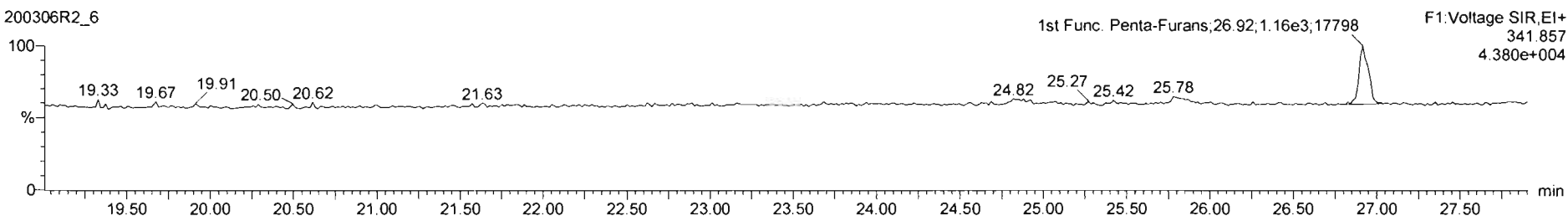
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200306R2_6

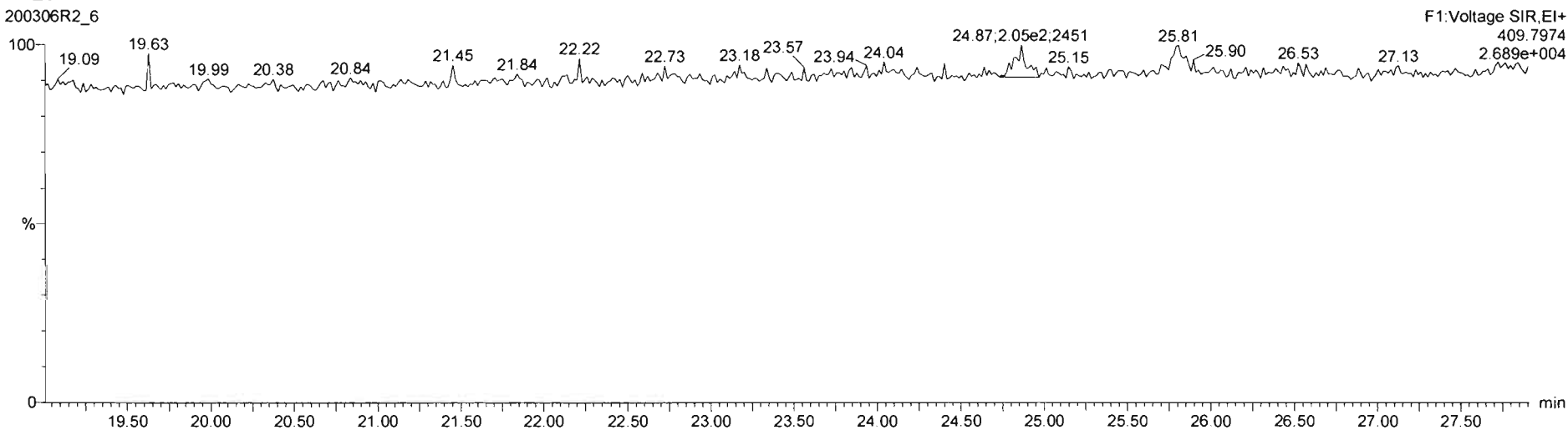


200306R2_6



DPE6

200306R2_6



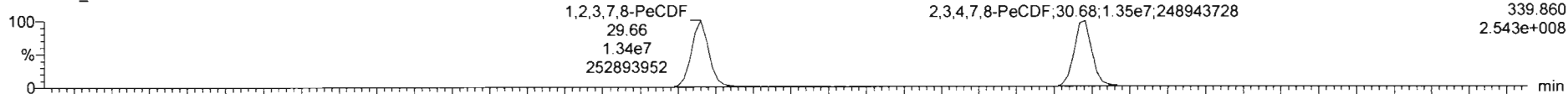
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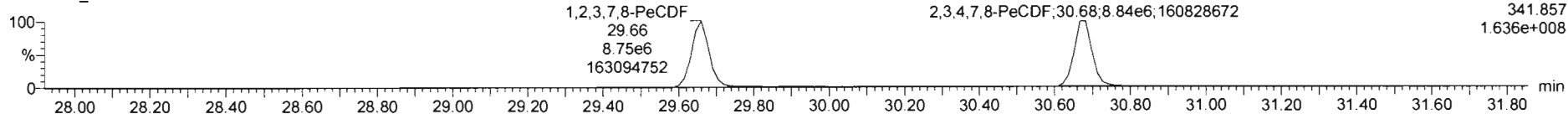
1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
339.860
2.543e+008

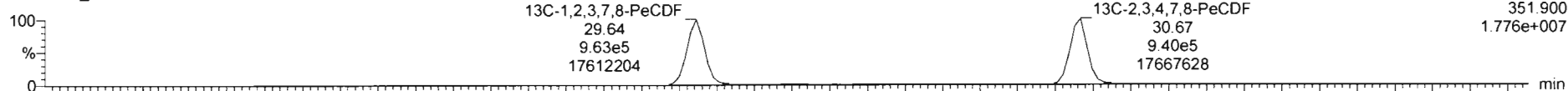
200306R2_6



F2:Voltage SIR,EI+
341.857
1.636e+008

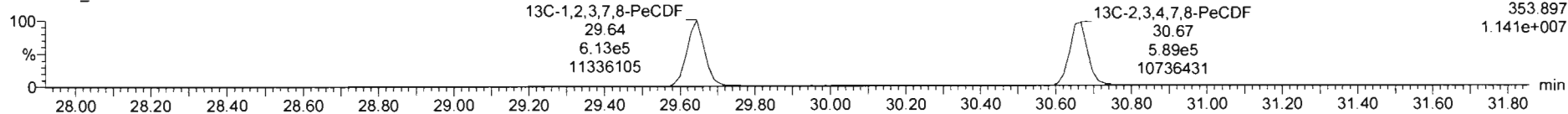
13C-1,2,3,7,8-PeCDF

200306R2_6



F2:Voltage SIR,EI+
351.900
1.776e+007

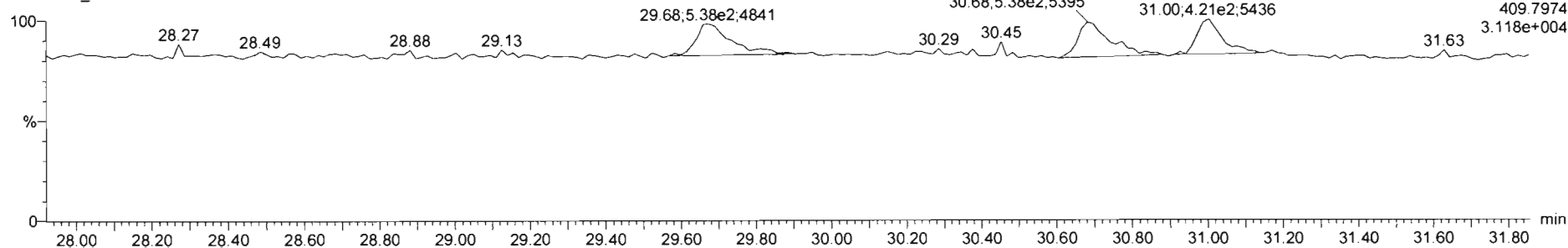
200306R2_6



F2:Voltage SIR,EI+
353.897
1.141e+007

DPE2

200306R2_6



F2:Voltage SIR,EI+
409.7974
3.118e+004

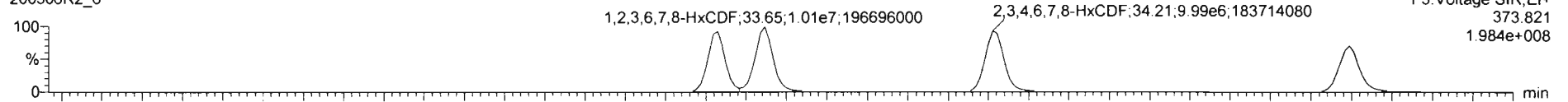
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

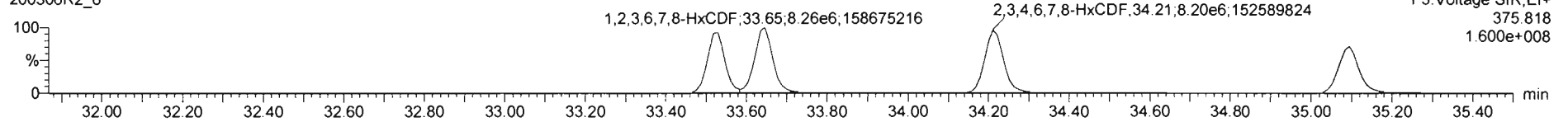
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1,2,3,4,7,8-HxCDF

200306R2_6

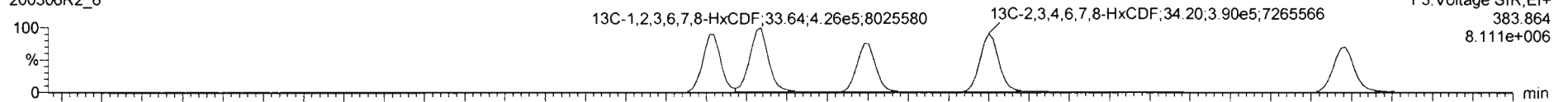


200306R2_6

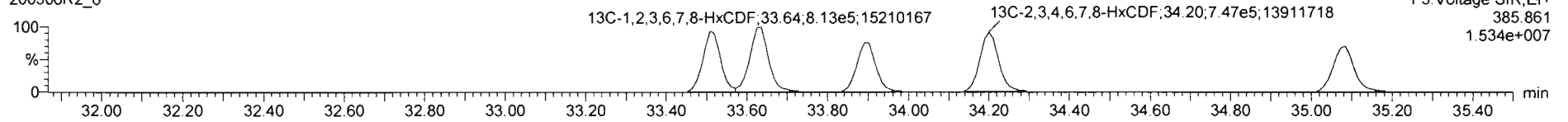


13C-1,2,3,4,7,8-HxCDF

200306R2_6

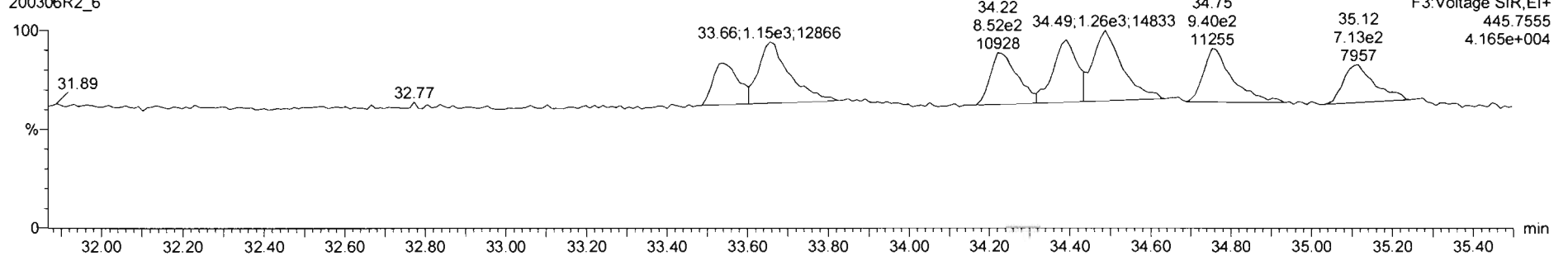


200306R2_6



DPE3

200306R2_6



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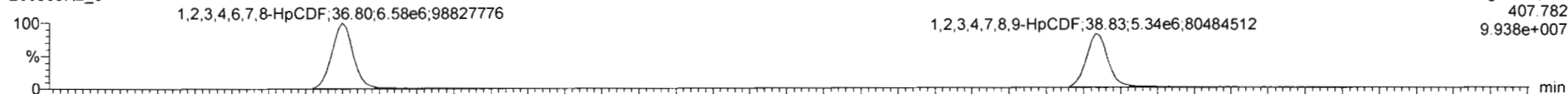
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

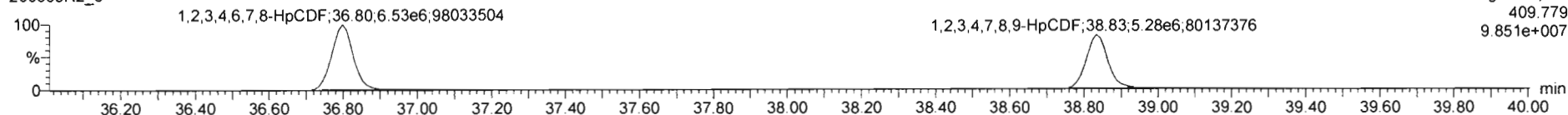
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1,2,3,4,6,7,8-HpCDF

200306R2_6

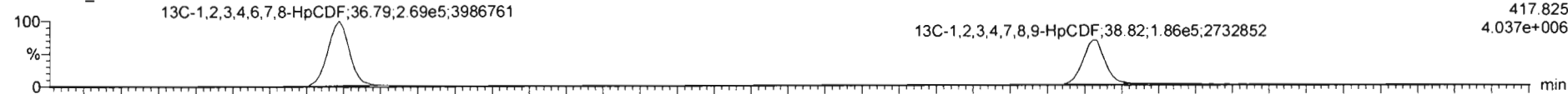


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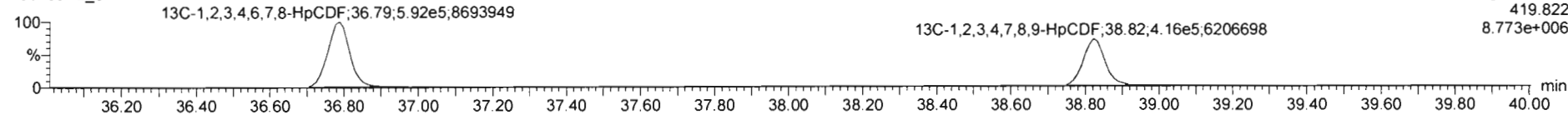


13C-1,2,3,4,6,7,8-HpCDF

200306R2_6

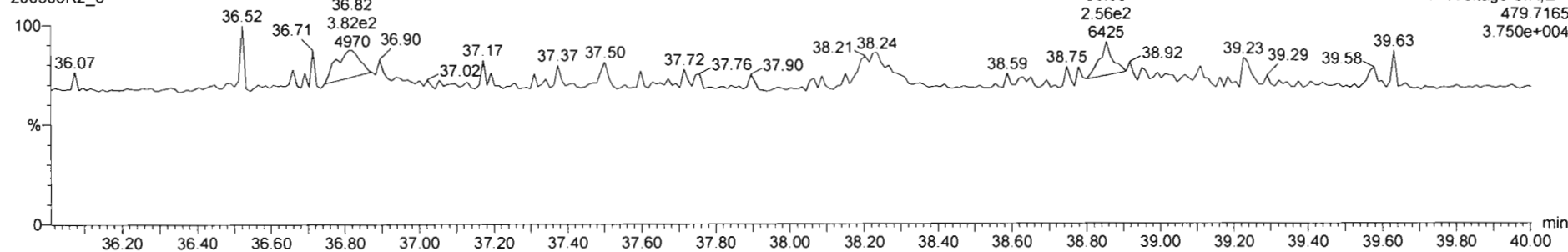


200306R2_6



DPE4

200306R2_6



Dataset: Untitled

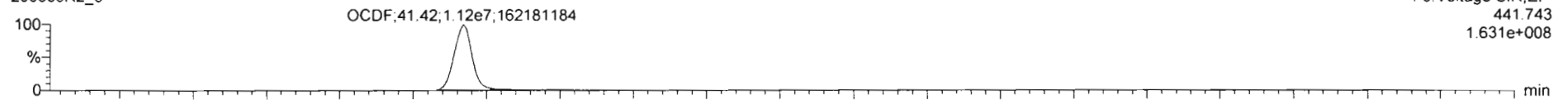
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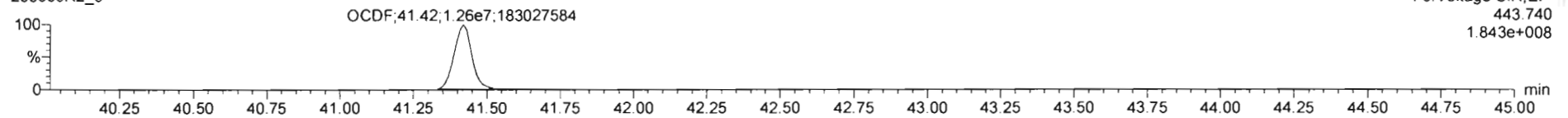
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OCDF

200306R2_6

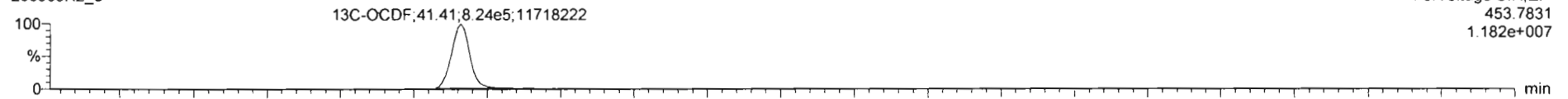


200306R2_6

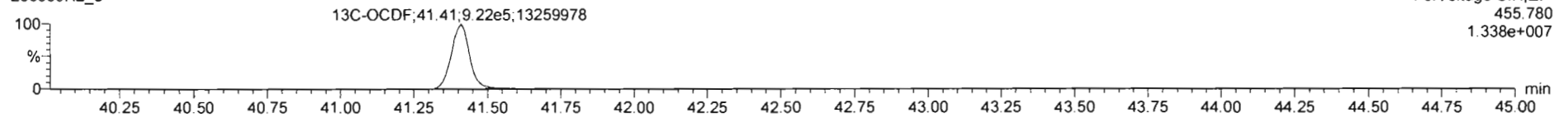


13C-OCDF

200306R2_6

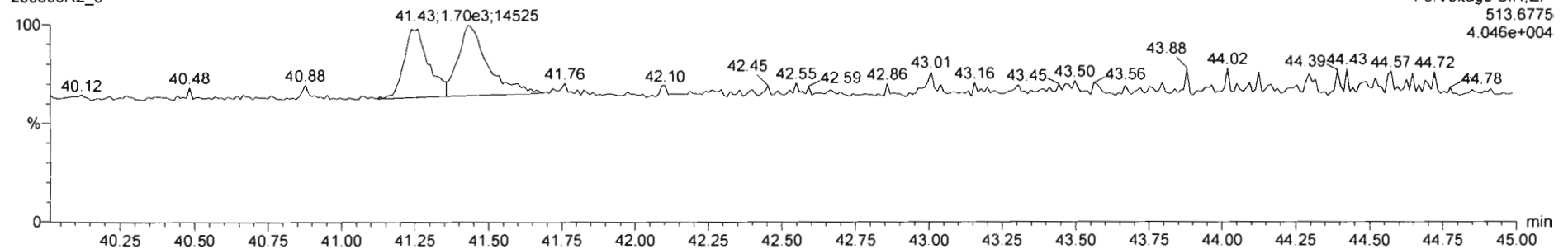


200306R2_6



DPE5

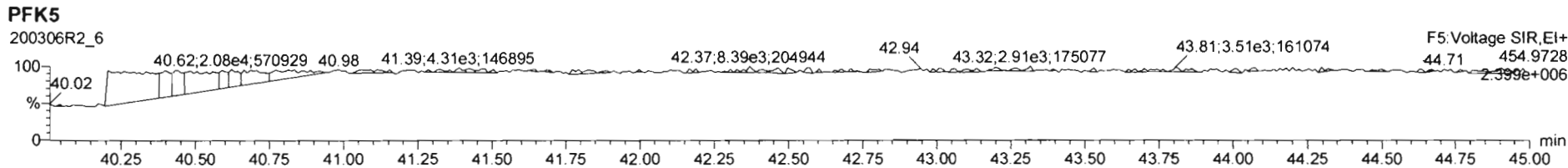
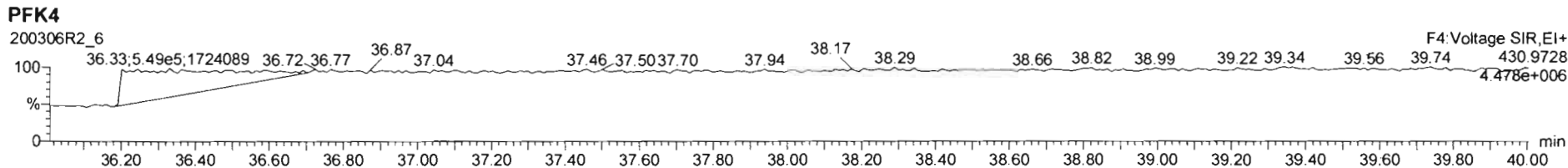
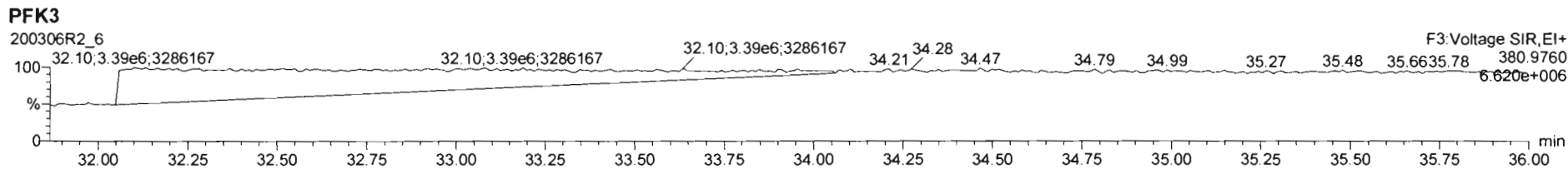
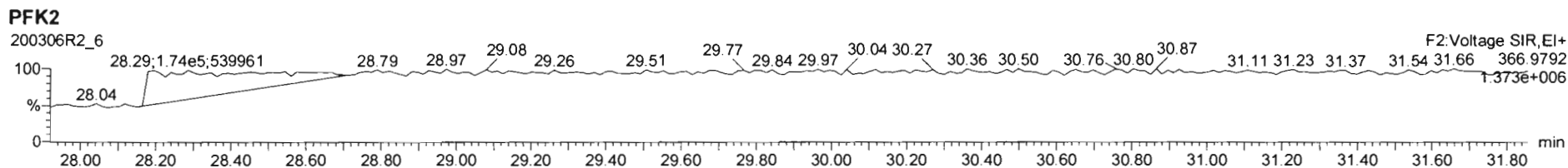
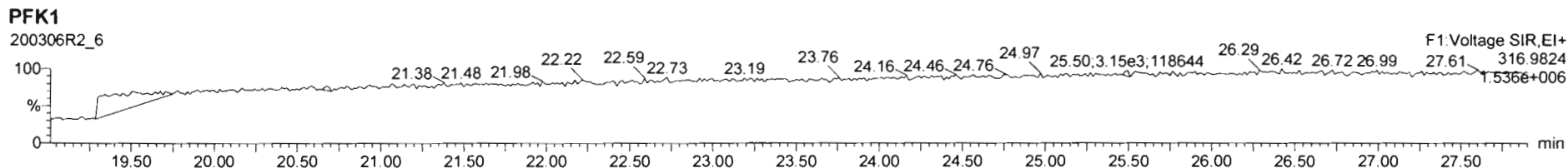
200306R2_6



Dataset: Untitled

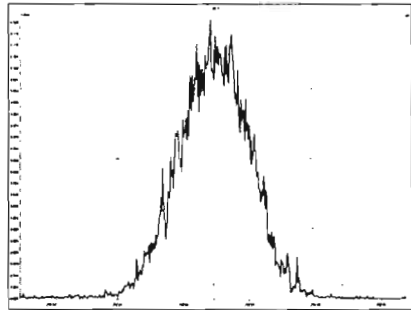
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Printed: Monday, March 09, 2020 08:23:18 Pacific Daylight Time

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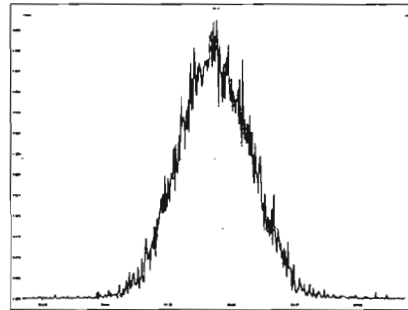


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

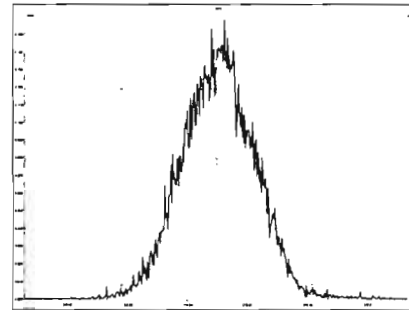
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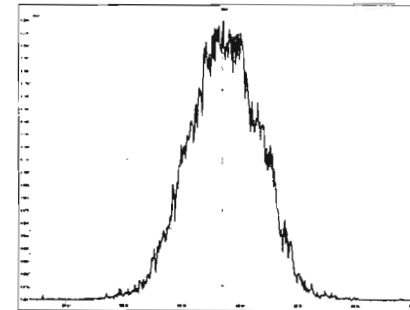
M 304.9824 R 12475



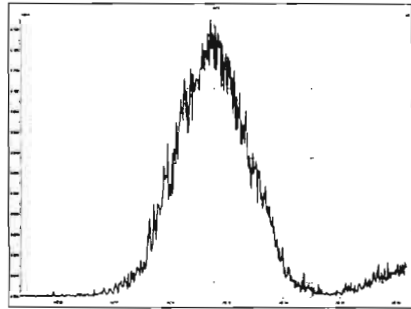
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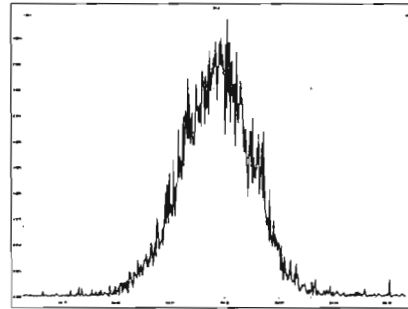
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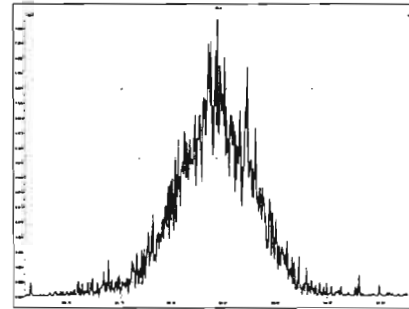
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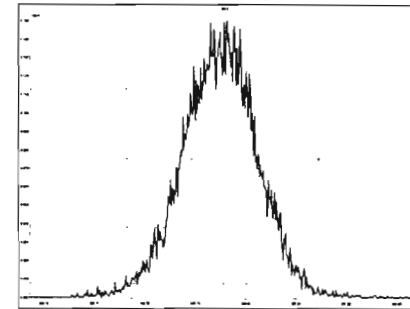
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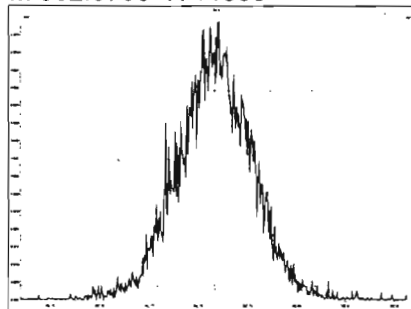
M 366.9792 R 12445



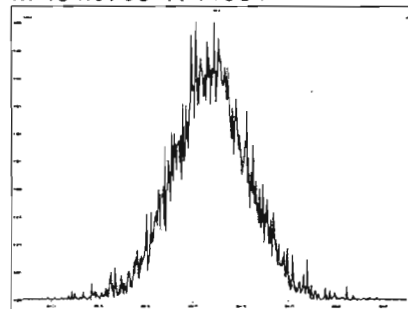
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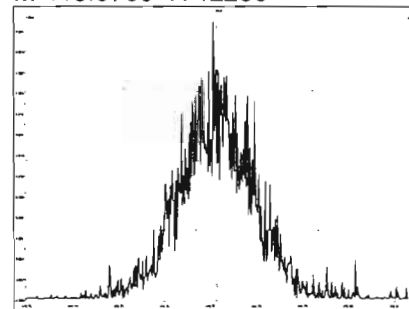
M 392.9760 R 11963



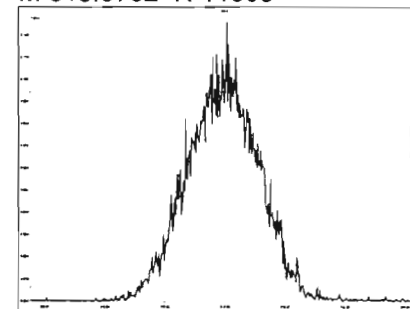
M 404.9760 R 11684



M 416.9760 R 12269

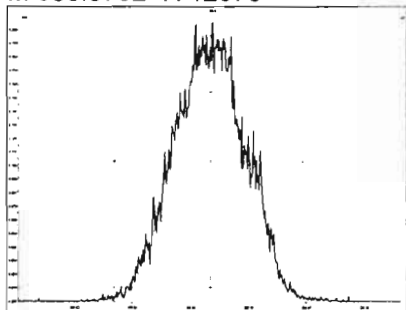


M 318.9792 R 11905

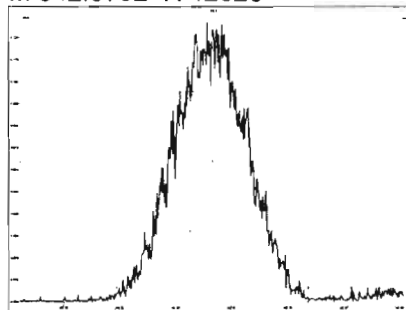


Printed: Friday, March 06, 2020 19:38:46 Pacific Standard Time

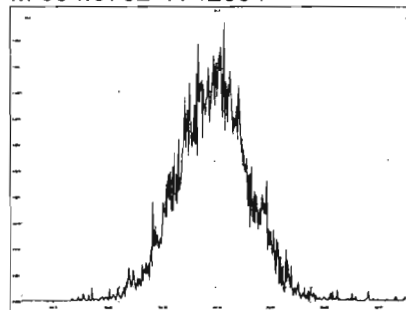
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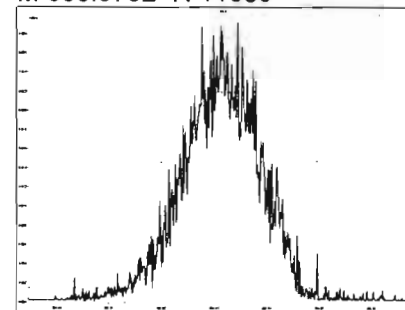
M 342.9792 R 12026



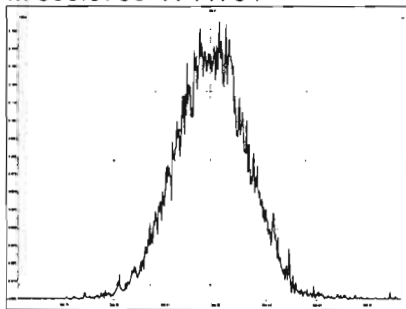
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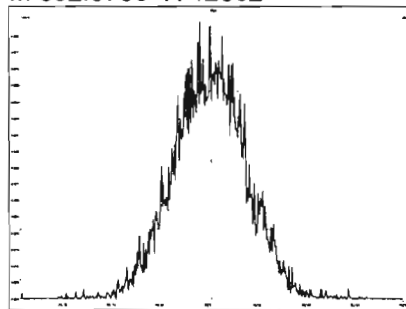
M 366.9792 R 11089



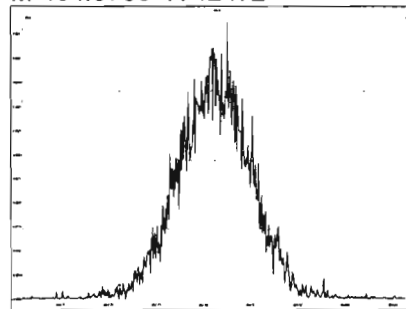
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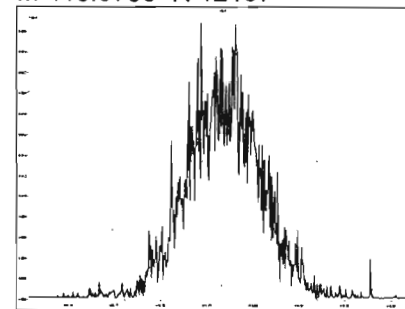
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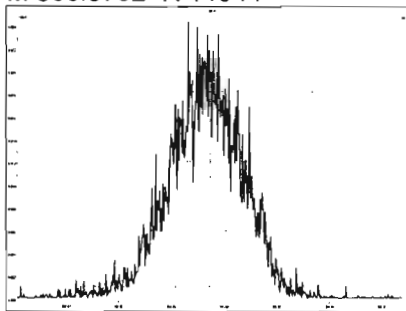
M 404.9760 R 12472



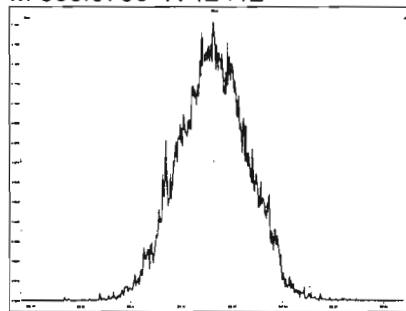
M 416.9760 R 12137



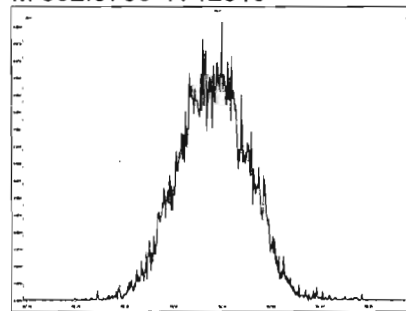
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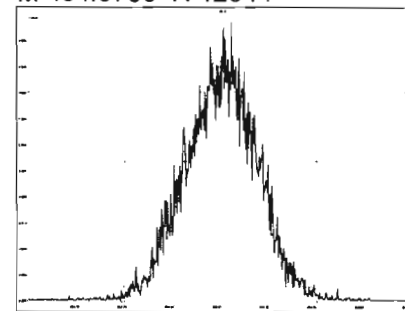
M 380.9760 R 12412



M 392.9760 R 12319

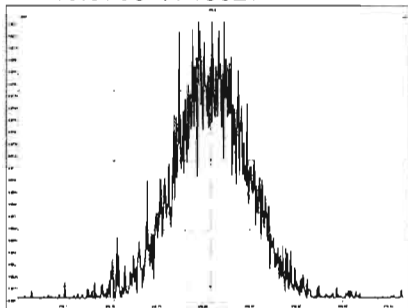


M 404.9760 R 12544

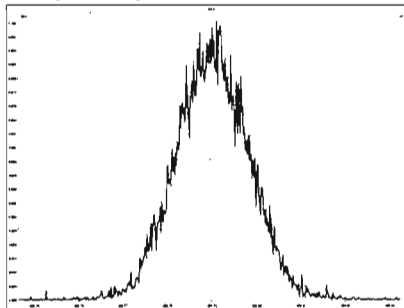


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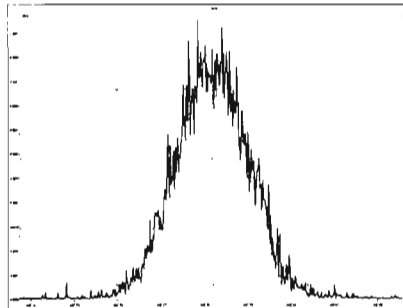
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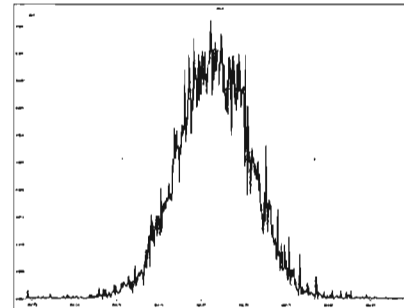
M 430.9728 R 11963



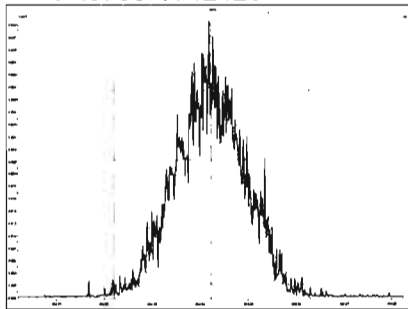
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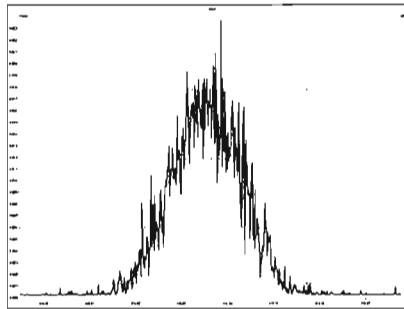
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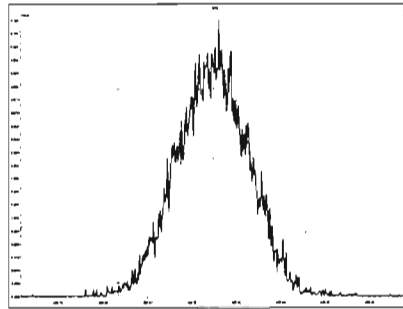
M 404.9760 R 12126



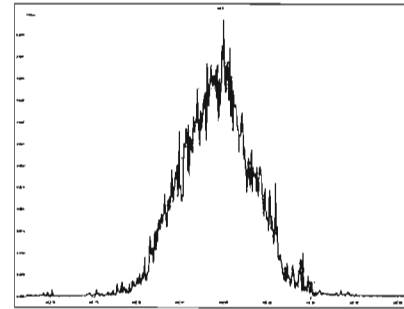
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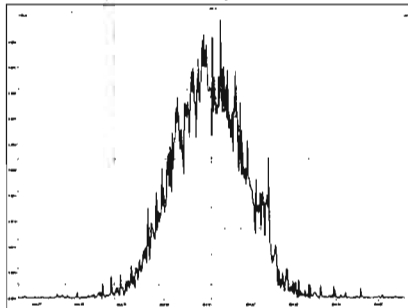
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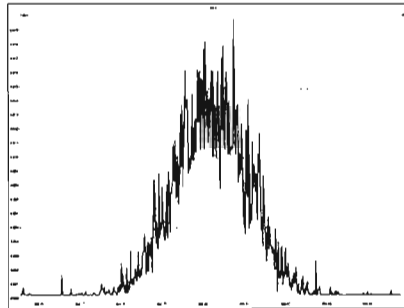
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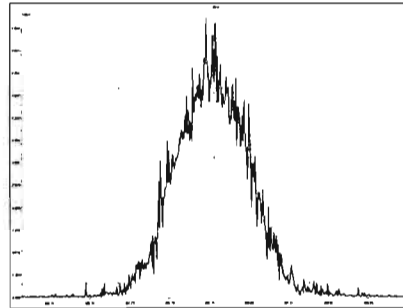
M 454.9728 R 12563



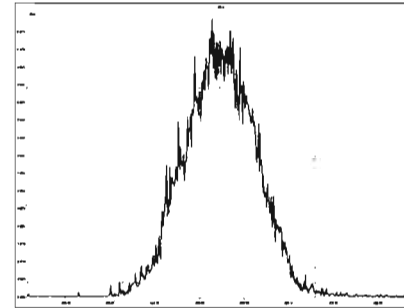
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M 480.9696 R 12284

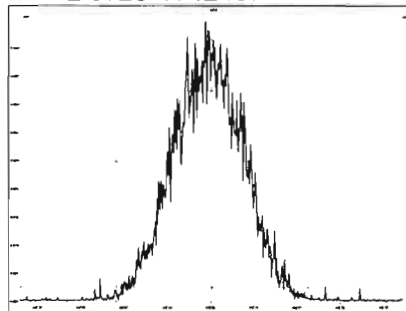


M 430.9728 R 12416

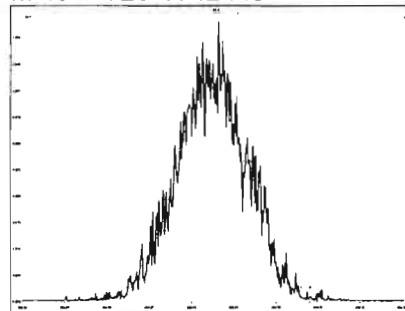


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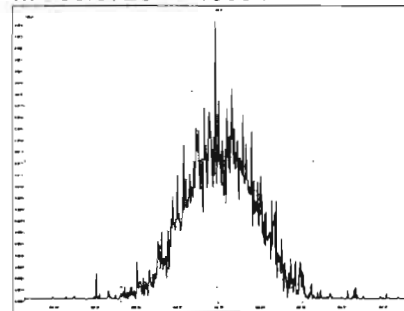
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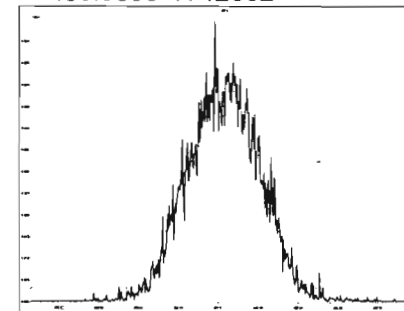
M 454.9728 R 12440



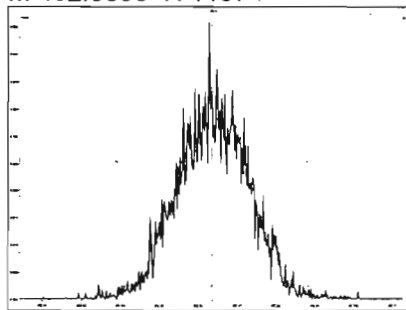
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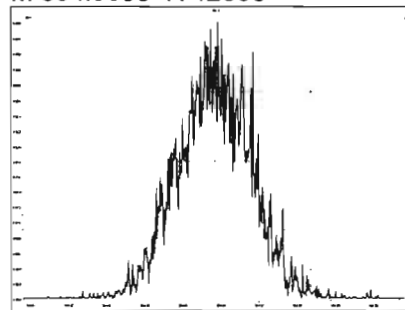
M 480.9696 R 12362



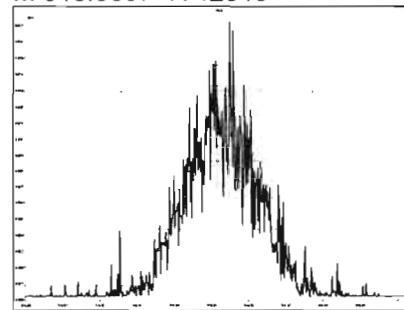
M 492.9696 R 11874



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Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

GRB 03/09/2020

0703/09/2020

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08

Calibration: U:\VG12.PRO\CurveDB\lb5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_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	9.28e4	0.77	NO	0.983	1.000	25.781	25.78	1.001	1.001	10.508	105	0.0462	10.5
2	2 1,2,3,7,8-PeCDD	3.71e5	0.63	NO	0.921	1.000	30.979	30.97	1.001	1.000	54.038	108	0.0655	54.0
3	3 1,2,3,4,7,8-HxCDD	3.32e5	1.24	NO	1.13	1.000	34.349	34.36	1.000	1.001	53.824	108	0.101	53.8
4	4 1,2,3,6,7,8-HxCDD	3.81e5	1.27	NO	0.984	1.000	34.445	34.46	1.000	1.000	57.230	114	0.0994	57.2
5	5 1,2,3,7,8,9-HxCDD	3.33e5	1.22	NO	0.967	1.000	34.722	34.72	1.000	1.000	56.617	113	0.117	56.6
6	6 1,2,3,4,6,7,8-HpCDD	2.52e5	1.04	NO	1.01	1.000	38.184	38.19	1.000	1.001	55.470	111	0.201	55.5
7	7 OCDD	4.61e5	0.91	NO	1.05	1.000	41.208	41.22	1.000	1.000	104.33	104	0.212	104
8	8 2,3,7,8-TCDF	1.19e5	0.80	NO	0.915	1.000	24.817	24.81	1.001	1.001	10.876	109	0.0390	10.9
9	9 1,2,3,7,8-PeCDF	5.58e5	1.55	NO	0.959	1.000	29.635	29.63	1.001	1.001	53.583	107	0.0901	53.6
10	10 2,3,4,7,8-PeCDF	6.50e5	1.53	NO	1.00	1.000	30.667	30.65	1.001	1.000	60.478	121	0.0822	60.5
11	11 1,2,3,4,7,8-HxCDF	4.39e5	1.22	NO	1.04	1.000	33.486	33.50	1.000	1.000	56.277	113	0.116	56.3
12	12 1,2,3,6,7,8-HxCDF	4.83e5	1.22	NO	1.01	1.000	33.614	33.63	1.000	1.001	58.225	116	0.120	58.2
13	13 2,3,4,6,7,8-HxCDF	4.58e5	1.23	NO	1.09	1.000	34.213	34.19	1.001	1.000	53.808	108	0.121	53.8
14	14 1,2,3,7,8,9-HxCDF	3.65e5	1.23	NO	1.03	1.000	35.052	35.06	1.000	1.000	54.692	109	0.173	54.7
15	15 1,2,3,4,6,7,8-HpCDF	3.38e5	1.03	NO	1.05	1.000	36.793	36.78	1.001	1.001	55.962	112	0.171	56.0
16	16 1,2,3,4,7,8,9-HpCDF	2.60e5	1.01	NO	1.21	1.000	38.801	38.81	1.000	1.000	55.091	110	0.218	55.1
17	17 OCDF	5.30e5	0.88	NO	0.947	1.000	41.389	41.40	1.000	1.000	107.93	108	0.154	108
18	18 13C-2,3,7,8-TCDD	8.98e5	0.78	NO	1.18	1.000	25.781	25.75	1.029	1.027	94.504	94.5	0.106	
19	19 13C-1,2,3,7,8-PeCDD	7.45e5	0.64	NO	0.864	1.000	30.974	30.96	1.236	1.235	107.38	107	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	5.45e5	1.26	NO	0.754	1.000	34.341	34.34	1.014	1.014	85.136	85.1	0.201	
21	21 13C-1,2,3,6,7,8-HxCDD	6.77e5	1.26	NO	0.925	1.000	34.449	34.45	1.017	1.017	86.121	86.1	0.164	
22	22 13C-1,2,3,7,8,9-HxCDD	6.09e5	1.27	NO	0.829	1.000	34.710	34.71	1.025	1.025	86.383	86.4	0.183	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.51e5	1.04	NO	0.598	1.000	38.158	38.17	1.127	1.127	88.689	88.7	0.205	
24	24 13C-OCDD	8.40e5	0.87	NO	0.571	1.000	41.298	41.21	1.219	1.217	173.12	86.6	0.205	
25	25 13C-2,3,7,8-TCDF	1.19e6	0.78	NO	1.09	1.000	24.801	24.79	0.990	0.989	86.829	86.8	0.143	
26	26 13C-1,2,3,7,8-PeCDF	1.09e6	1.58	NO	0.876	1.000	29.643	29.61	1.183	1.182	98.396	98.4	0.243	
27	27 13C-2,3,4,7,8-PeCDF	1.07e6	1.60	NO	0.844	1.000	30.655	30.64	1.223	1.222	100.81	101	0.253	
28	28 13C-1,2,3,4,7,8-HxCDF	7.52e5	0.52	NO	1.00	1.000	33.491	33.49	0.989	0.989	88.441	88.4	0.228	
29	29 13C-1,2,3,6,7,8-HxCDF	8.18e5	0.53	NO	1.12	1.000	33.599	33.60	0.992	0.992	86.171	86.2	0.204	
30	30 13C-2,3,4,6,7,8-HxCDF	7.80e5	0.52	NO	1.04	1.000	34.178	34.18	1.009	1.009	88.698	88.7	0.220	
31	31 13C-1,2,3,7,8,9-HxCDF	6.50e5	0.50	NO	0.873	1.000	35.049	35.05	1.035	1.035	87.589	87.6	0.261	

Dataset: U:\VG12.PRO\Results\200306R2\200306R2-8.qld

Last Altered: Monday, March 09, 2020 09:14:18 Pacific Daylight Time

Printed: Monday, March 09, 2020 09:15:42 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_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	5.76e5	0.45	NO	0.771	1.000	36.759	36.76	1.085	1.085	87.916	87.9	0.211	
33	33 13C-1,2,3,4,7,8,9-HpCDF	3.91e5	0.44	NO	0.519	1.000	38.839	38.80	1.147	1.146	88.538	88.5	0.314	
34	34 13C-OCDF	1.04e6	0.90	NO	0.696	1.000	41.477	41.39	1.225	1.222	175.32	87.7	0.183	
35	35 37Cl-2,3,7,8-TCDD	9.59e4			1.17	1.000	25.791	25.78	1.029	1.029	10.173	102	0.0234	
36	36 13C-1,2,3,4-TCDD	8.02e5	0.79	NO	1.00	1.000	25.050	25.06	1.000	1.000	100.00	100	0.126	
37	37 13C-1,2,3,4-TCDF	1.26e6	0.80	NO	1.00	1.000	23.190	23.19	1.000	1.000	100.00	100	0.156	
38	38 13C-1,2,3,4,6,9-HxCDF	8.50e5	0.51	NO	1.00	1.000	33.880	33.87	1.000	1.000	100.00	100	0.228	

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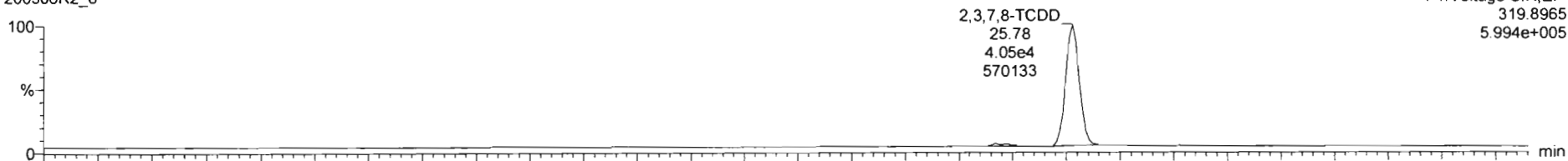
Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-3-6-20.mdb 06 Mar 2020 12:03:08
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-3-6-20.cdb 09 Mar 2020 08:18:02

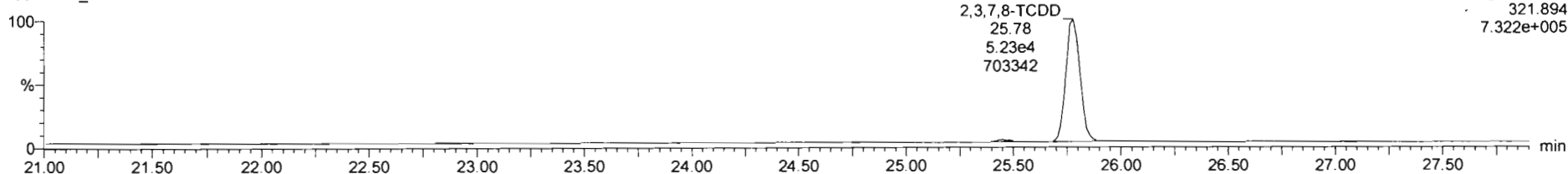
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2,3,7,8-TCDD

200306R2_8

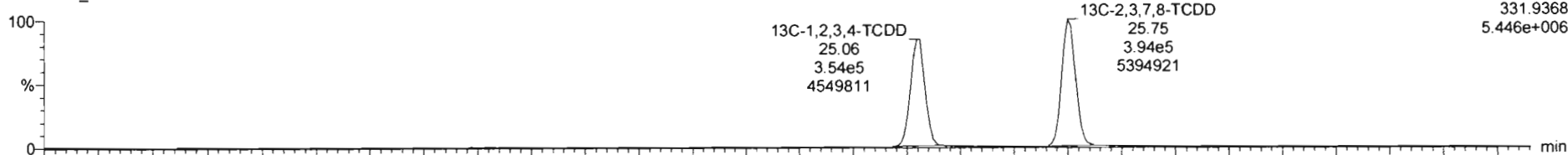


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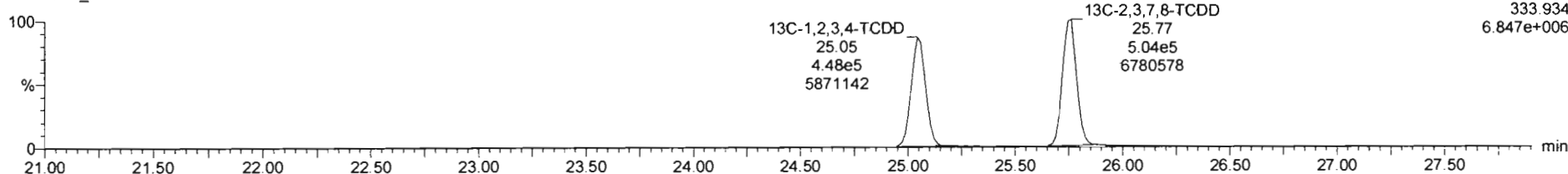


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200306R2_8



200306R2_8



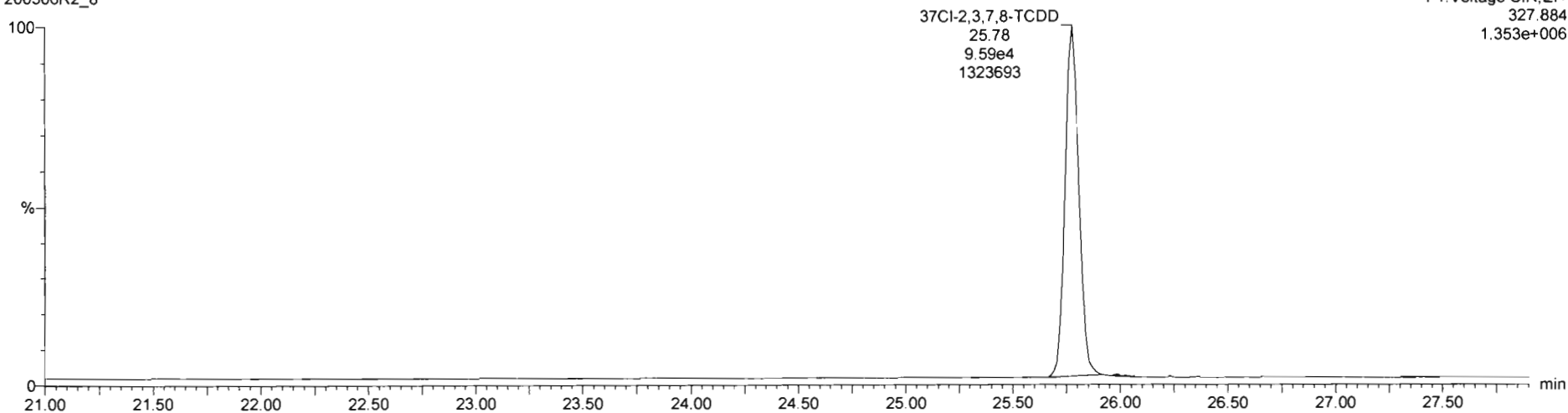
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

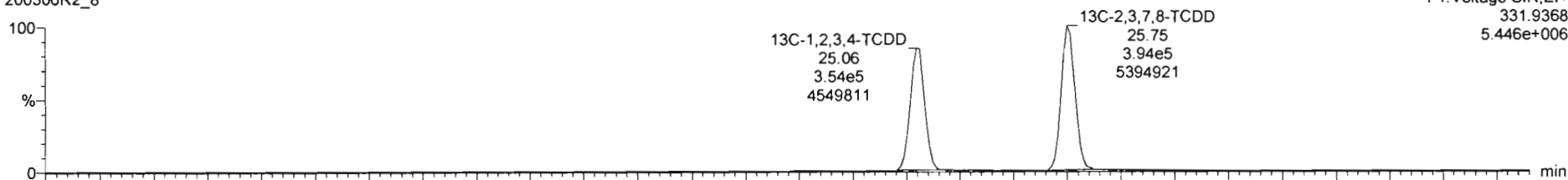
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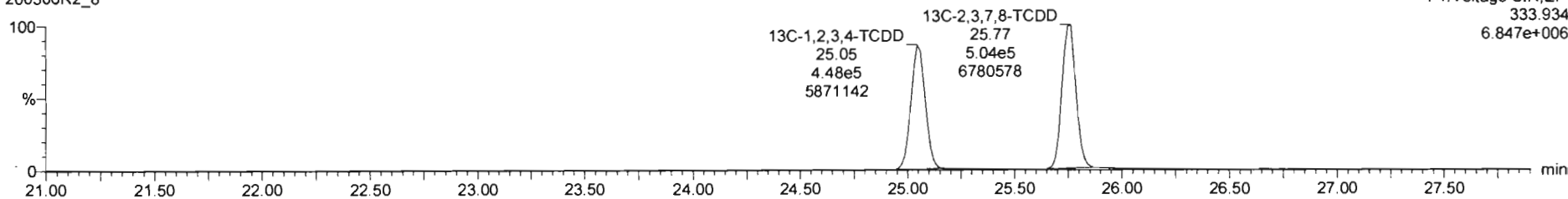


13C-1,2,3,4-TCDD

200306R2_8



200306R2_8



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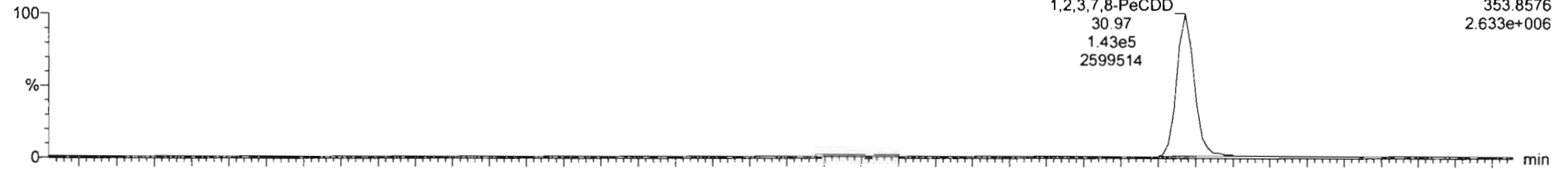
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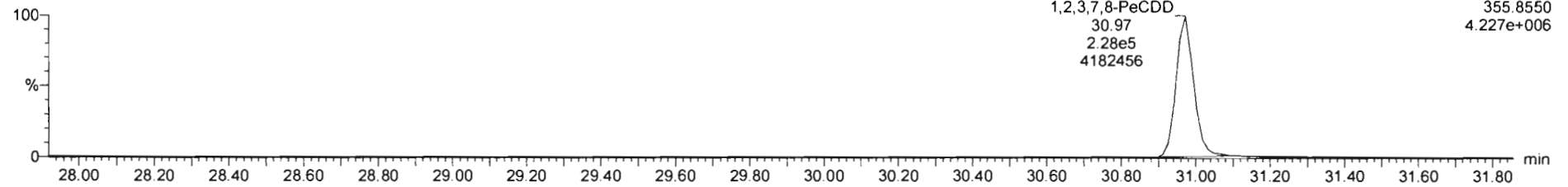
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1,2,3,7,8-PeCDD

200306R2_8

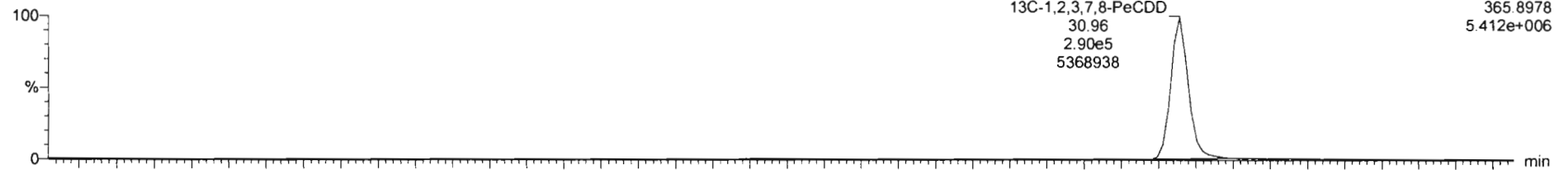


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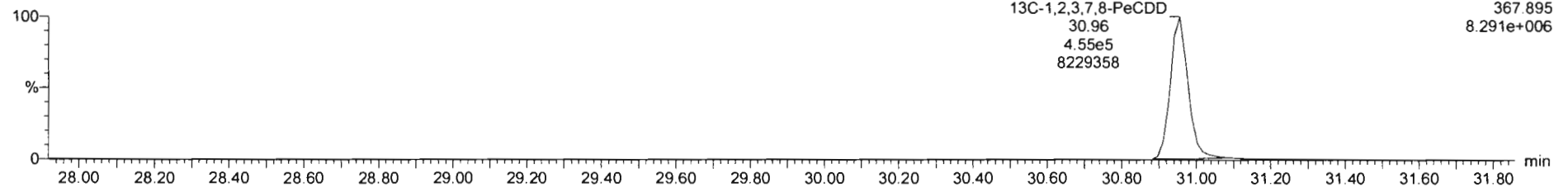


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200306R2_8



200306R2_8



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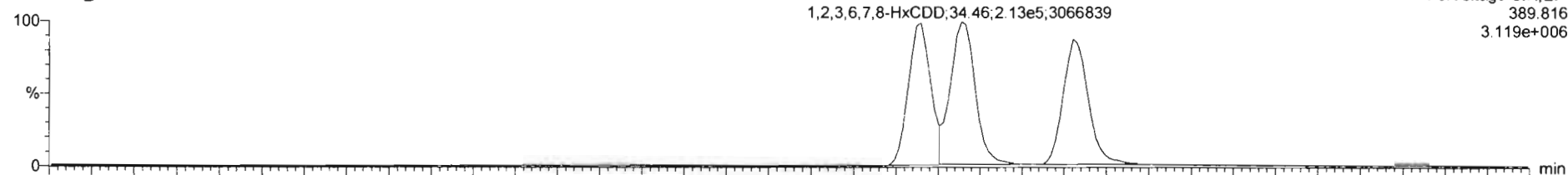
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

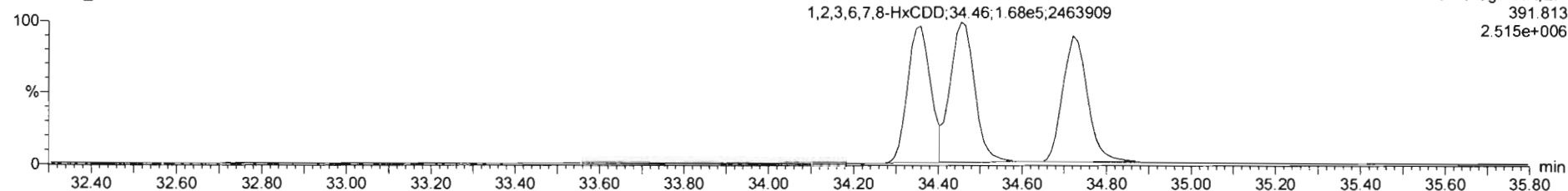
Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200306R2_8

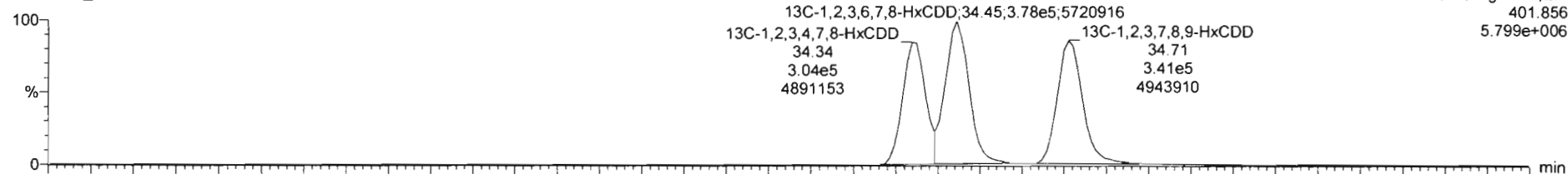


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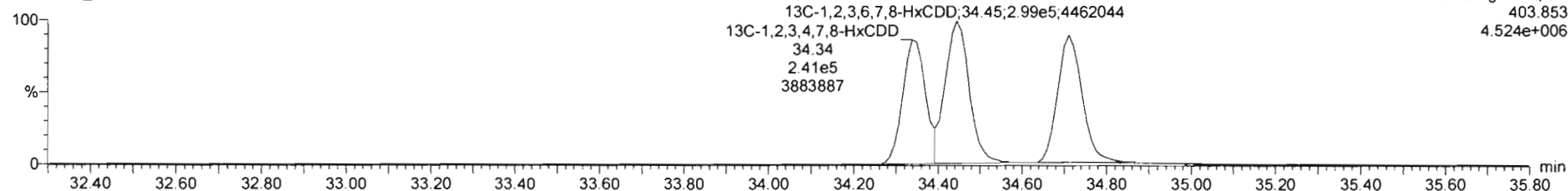


13C-1,2,3,4,7,8-HxCDD

200306R2_8



200306R2_8



Dataset: Untitled

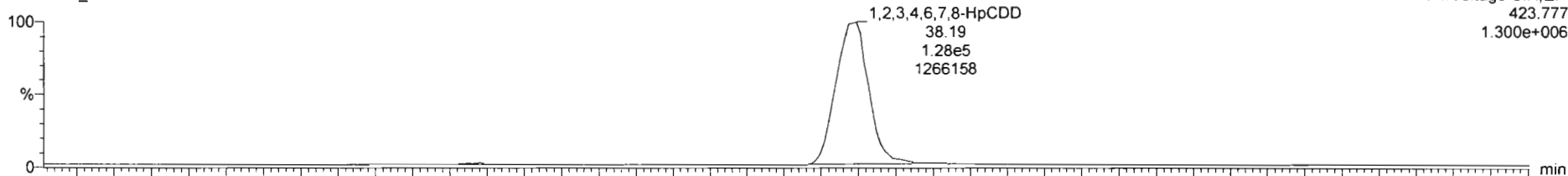
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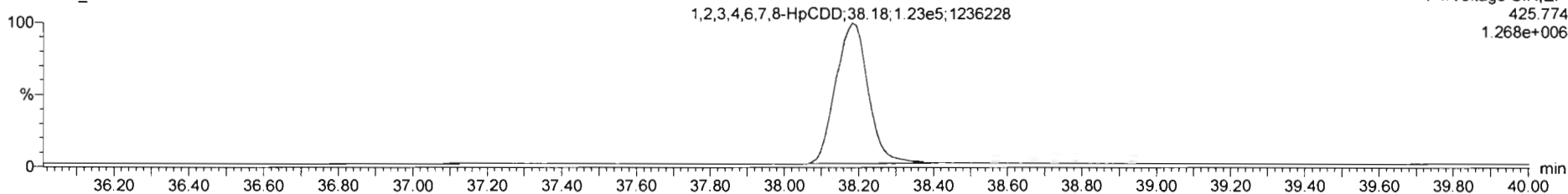
1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
423.777
1.300e+006

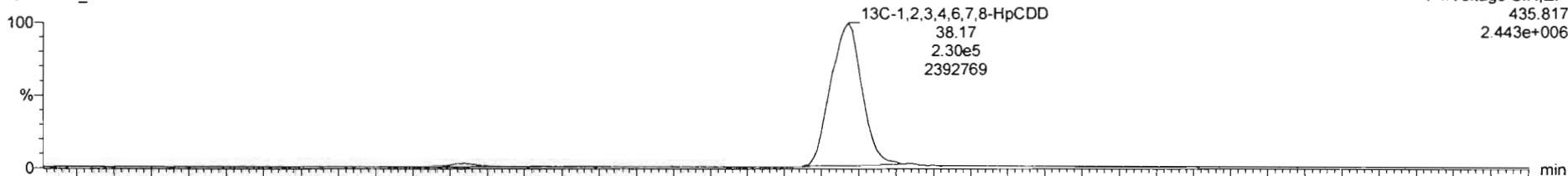
200306R2_8



F4: Voltage SIR, EI+
425.774
1.268e+006

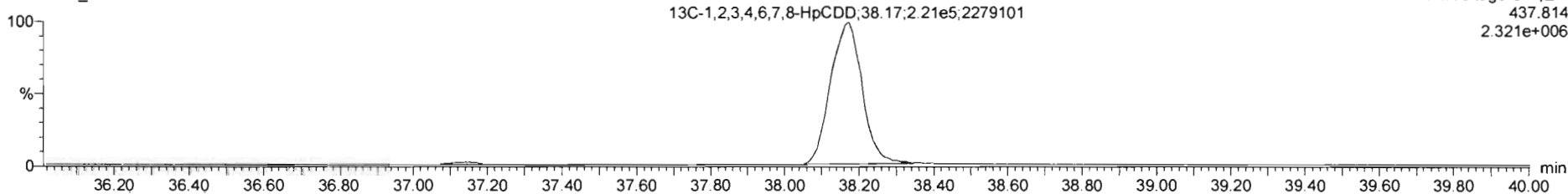
13C-1,2,3,4,6,7,8-HpCDD

200306R2_8



F4: Voltage SIR, EI+
435.817
2.443e+006

200306R2_8

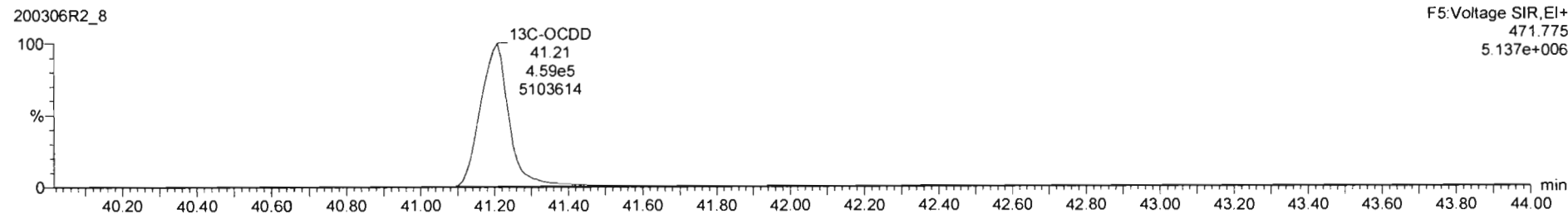
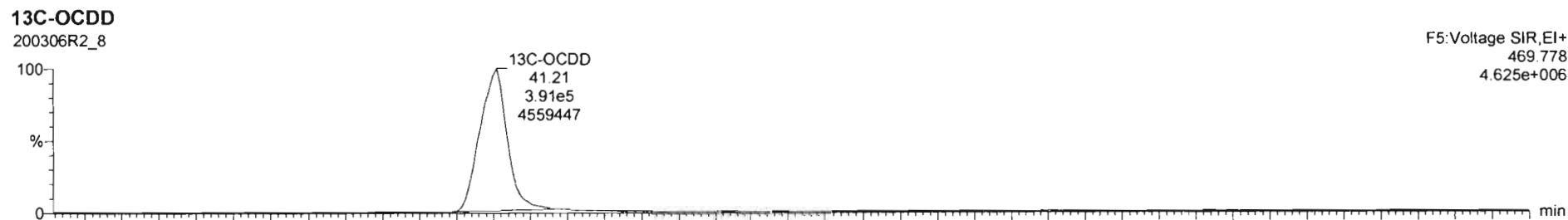
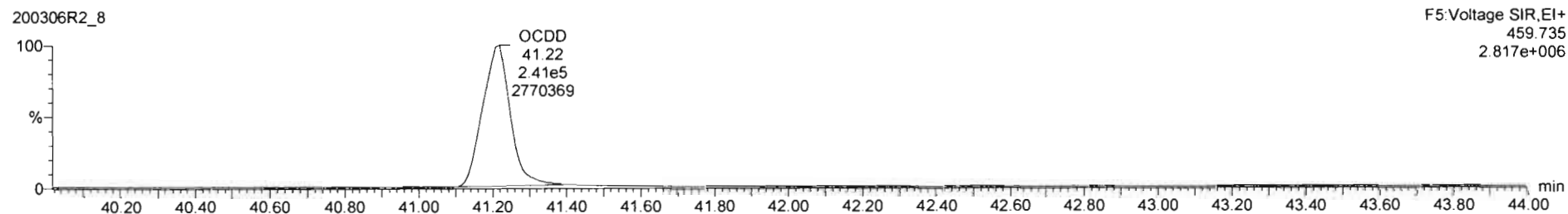
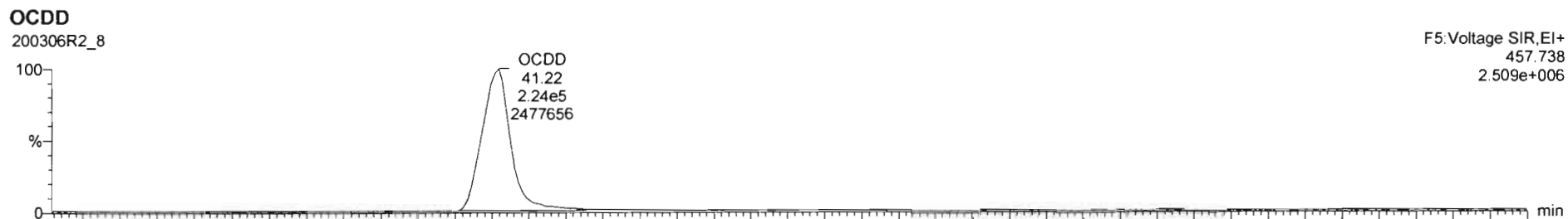


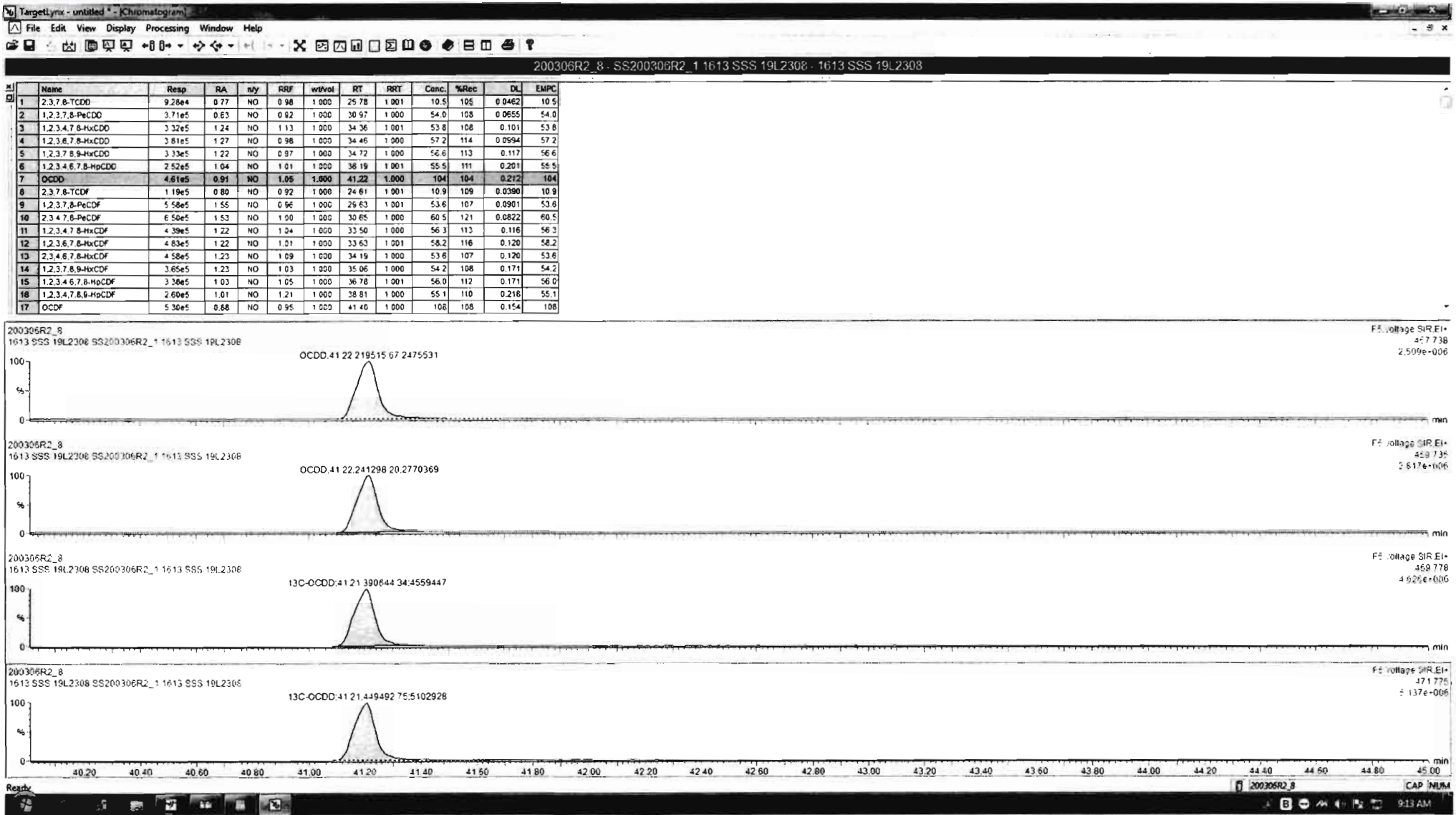
F4: Voltage SIR, EI+
437.814
2.321e+006

Dataset: Untitled

Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time
Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308





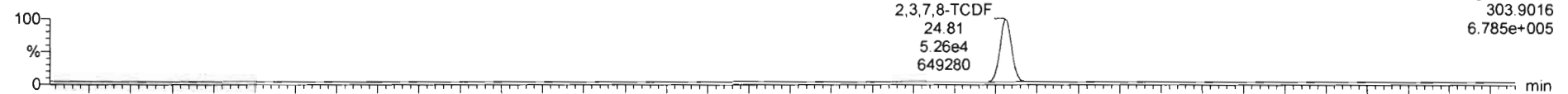
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

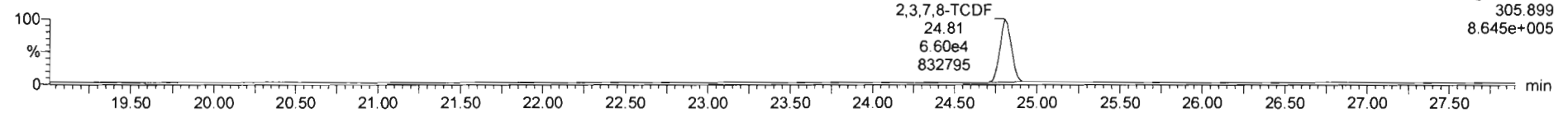
2,3,7,8-TCDF

200306R2_8



F1:Voltage SIR,EI+
303.9016
6.785e+005

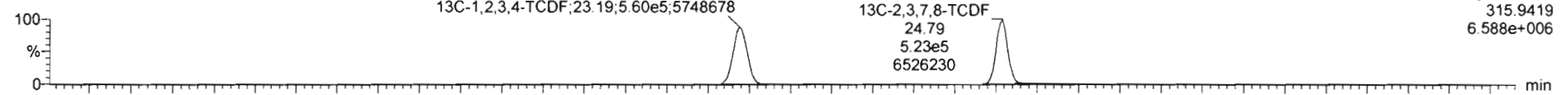
200306R2_8



F1:Voltage SIR,EI+
305.899
8.645e+005

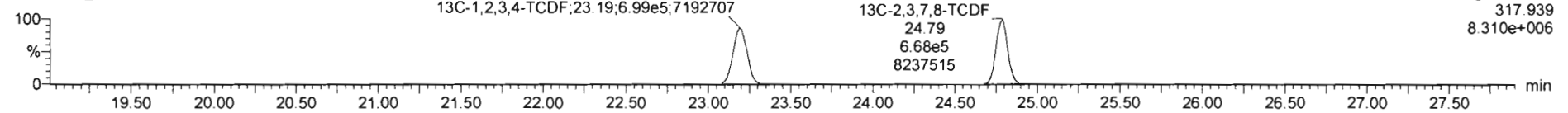
13C-2,3,7,8-TCDF

200306R2_8



F1:Voltage SIR,EI+
315.9419
6.588e+006

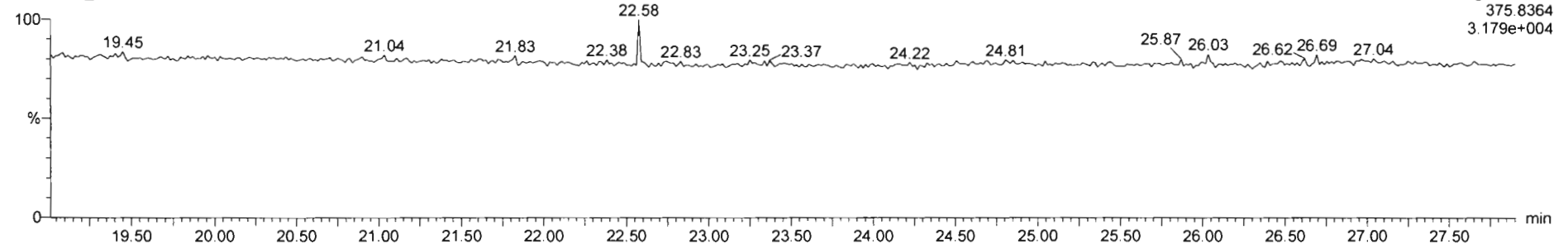
200306R2_8



F1:Voltage SIR,EI+
317.939
8.310e+006

DPE1

200306R2_8



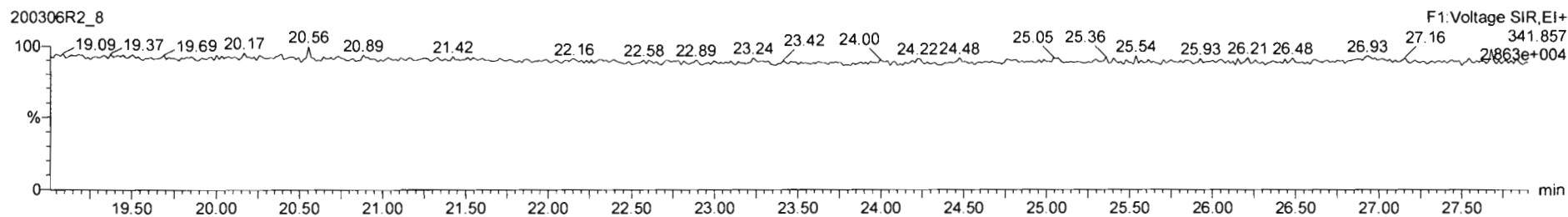
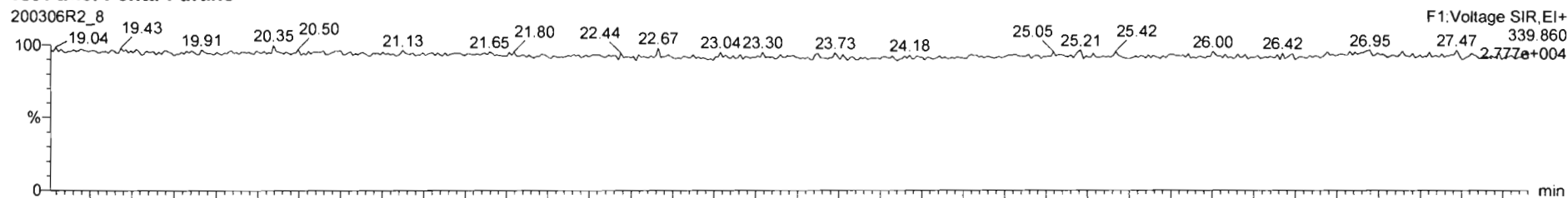
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375.8364
3.179e+004

Dataset: Untitled

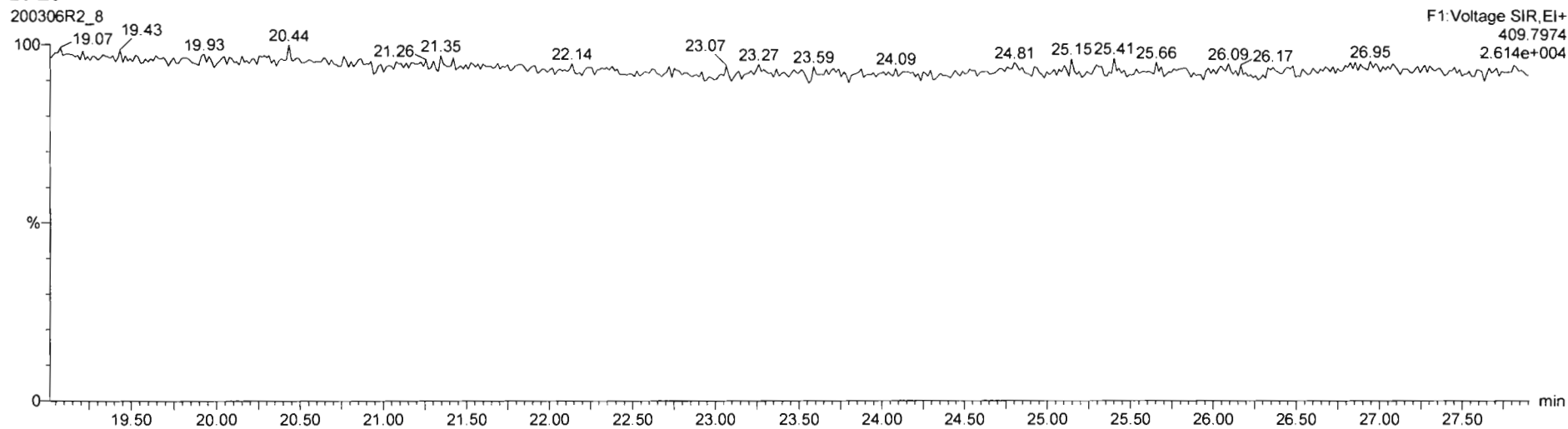
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

Name: 200306R2_8, Date: 06-Mar-2020, Time: 18:42:29, ID: SS200306R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

1st Func. Penta-Furans



DPE6



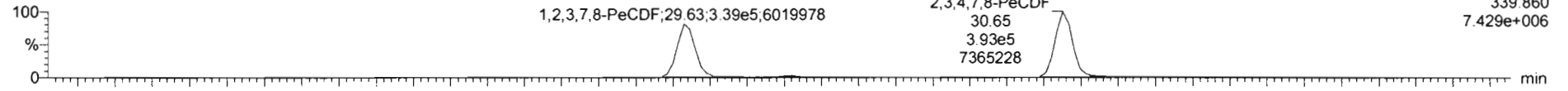
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Printed: Monday, March 09, 2020 09:03:37 Pacific Daylight Time

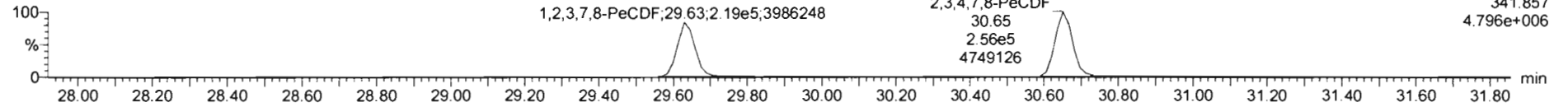
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1,2,3,7,8-PeCDF

200306R2_8

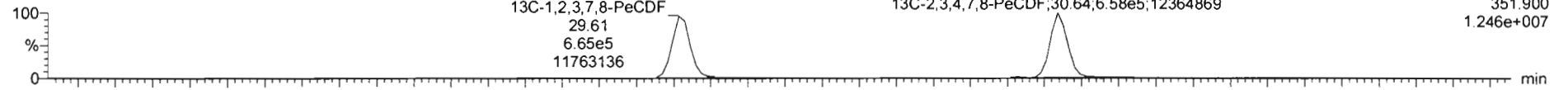


200306R2_8

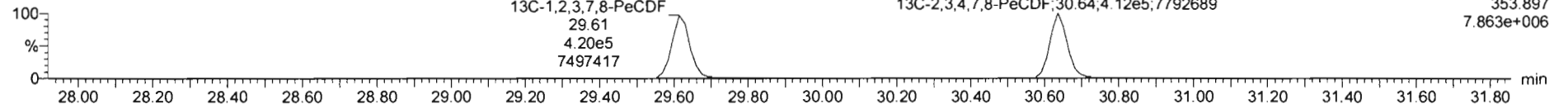


13C-1,2,3,7,8-PeCDF

200306R2_8

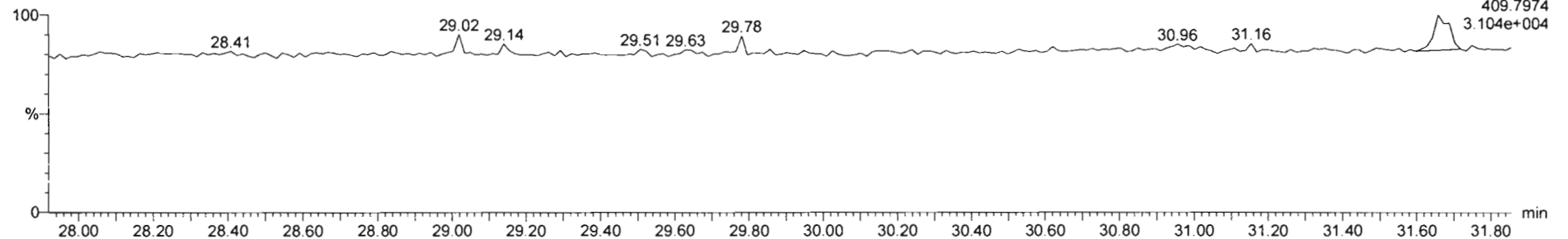


200306R2_8



DPE2

200306R2_8



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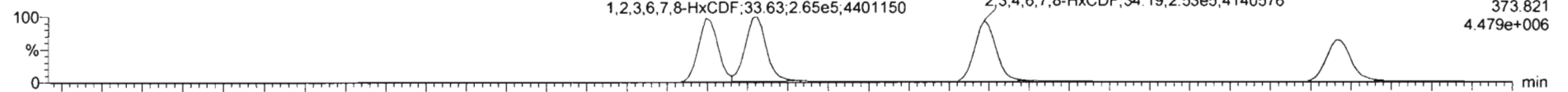
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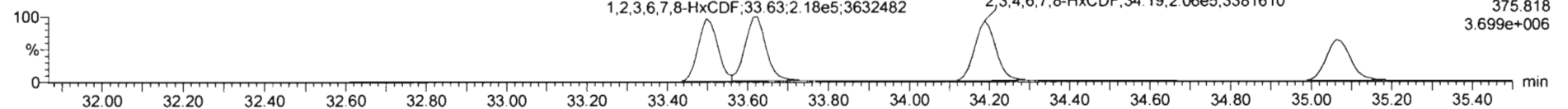
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1,2,3,4,7,8-HxCDF

200306R2_8

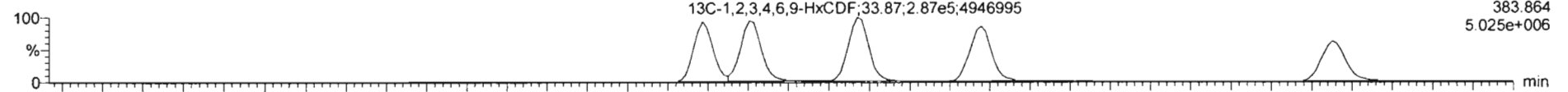


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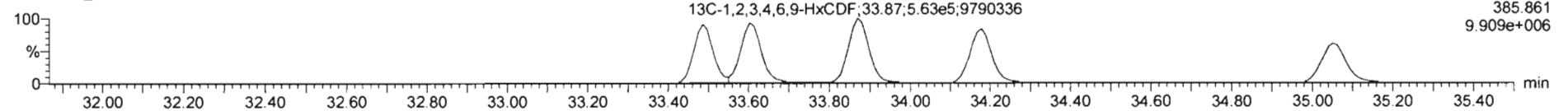


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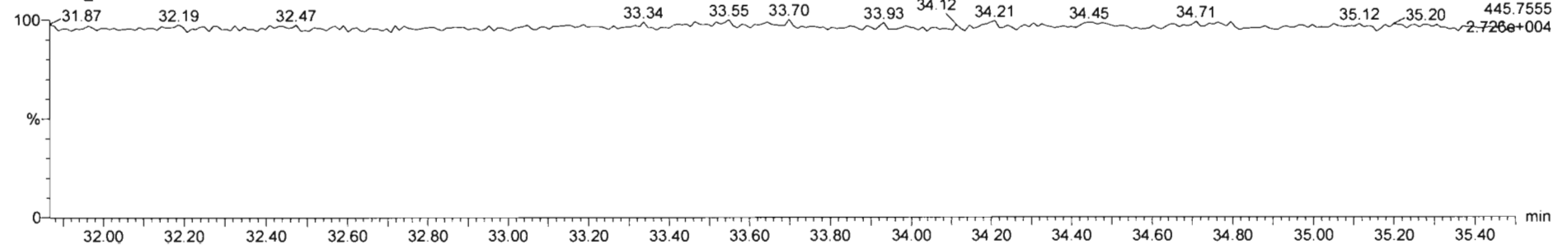


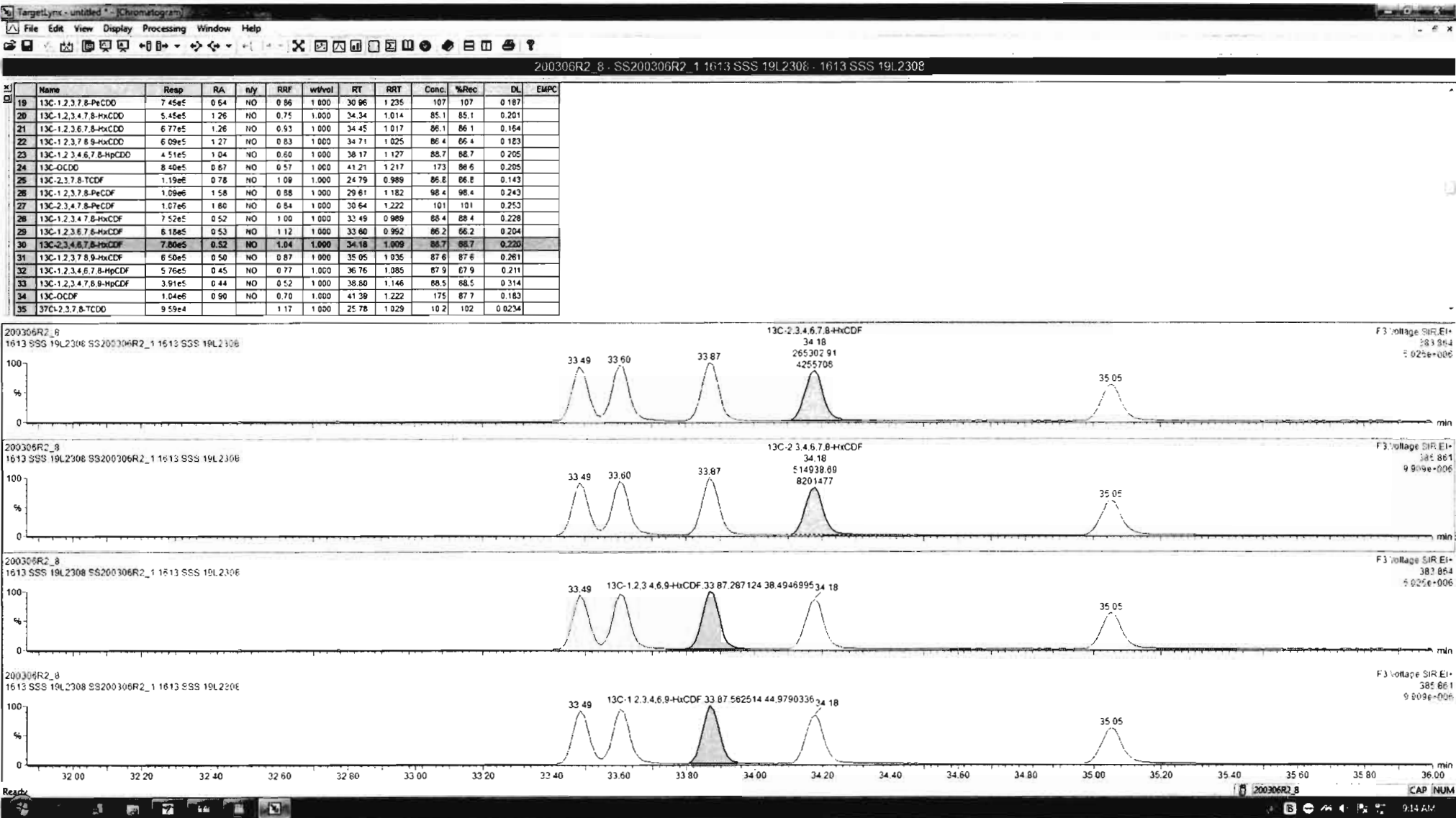
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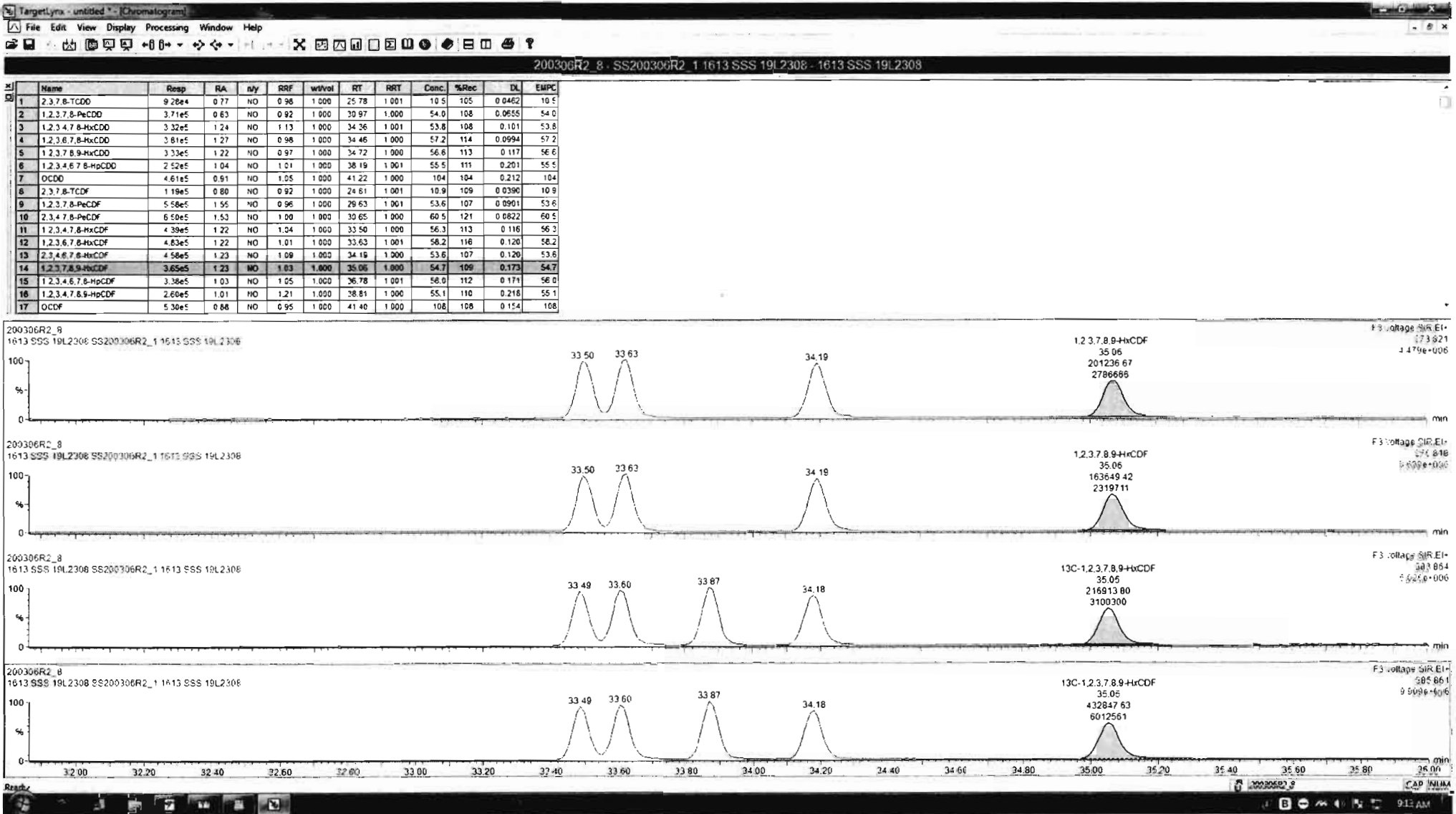


DPE3

200306R2_8







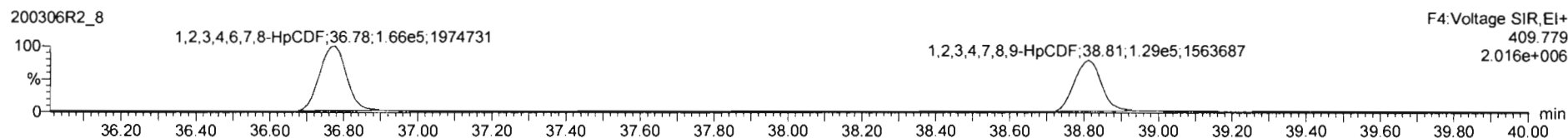
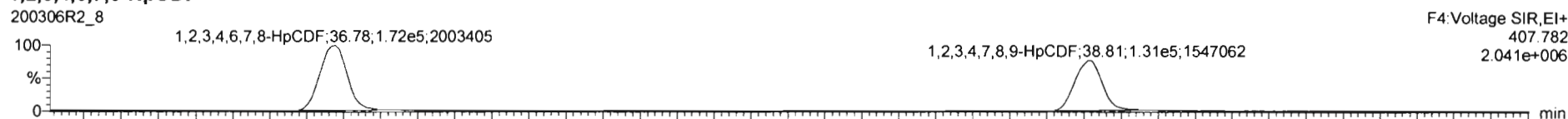
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Last Altered: Monday, March 09, 2020 09:01:52 Pacific Daylight Time

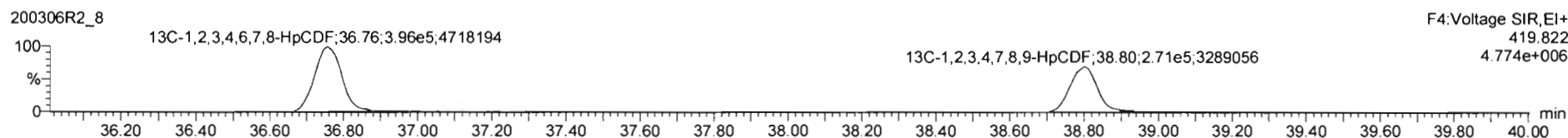
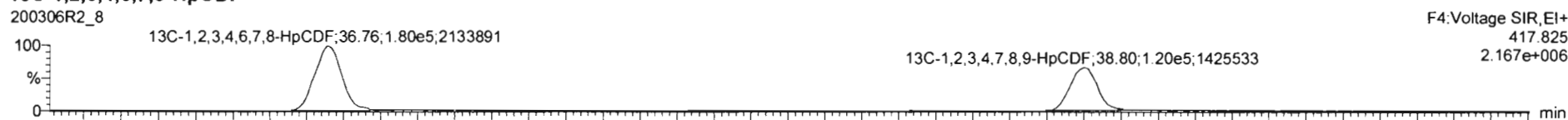
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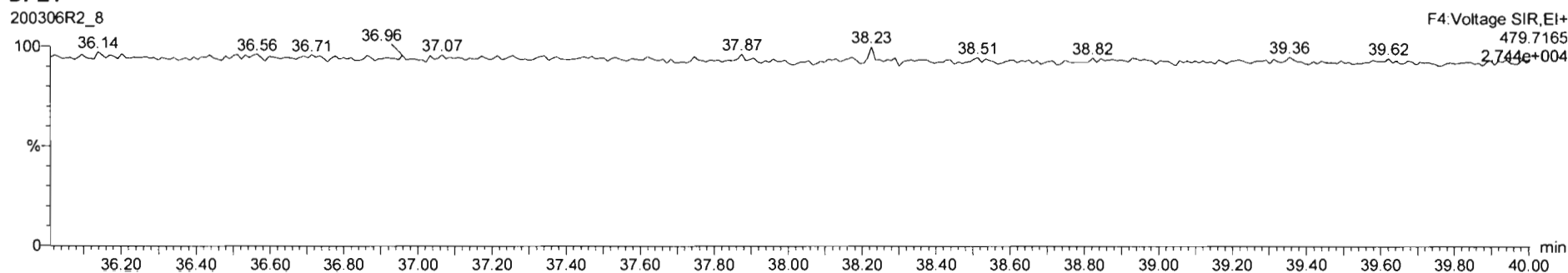
1,2,3,4,6,7,8-HpCDF



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



DPE4



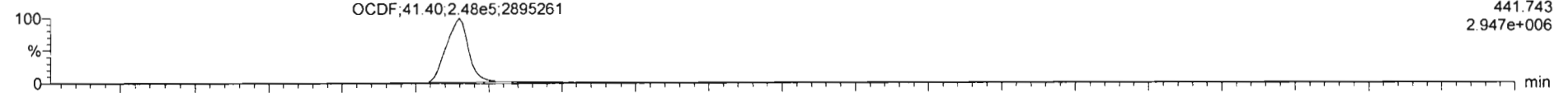
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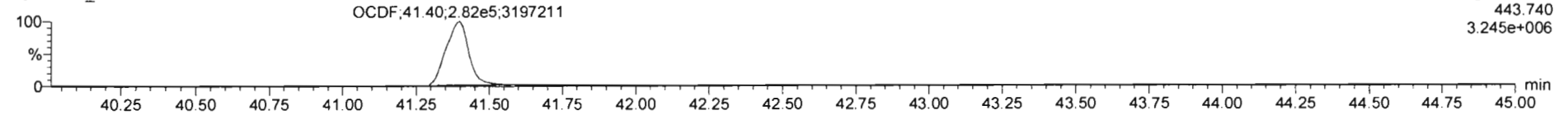
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OCDF

200306R2_8

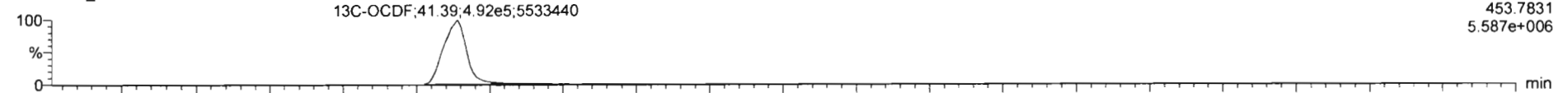


200306R2_8

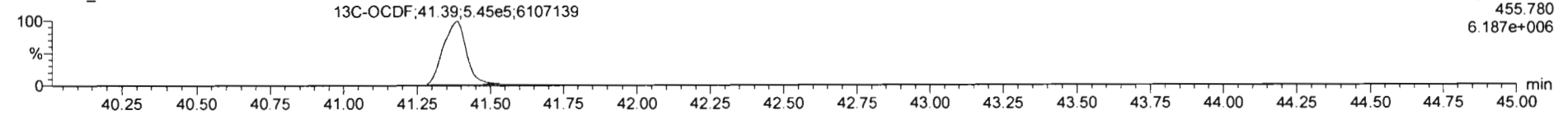


13C-OCDF

200306R2_8

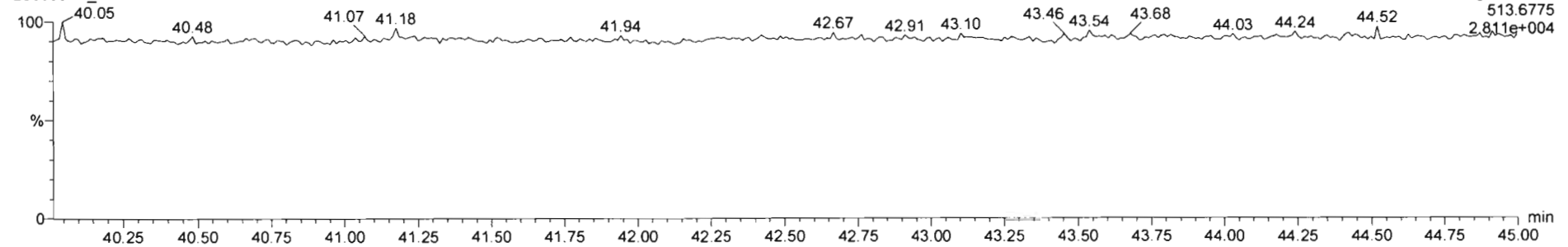


200306R2_8



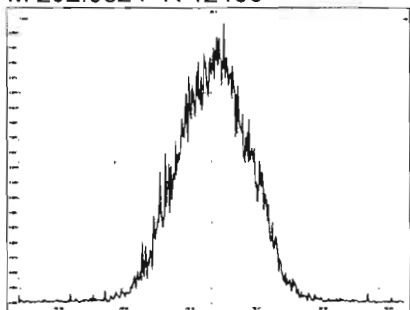
DPE5

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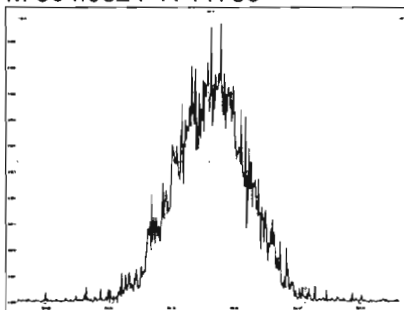


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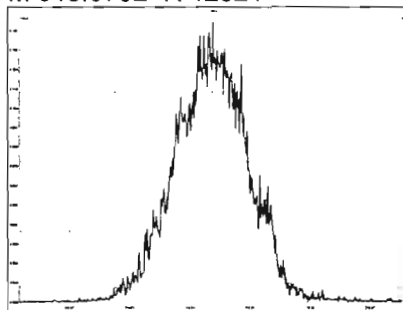
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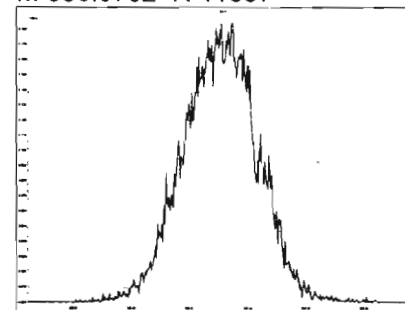
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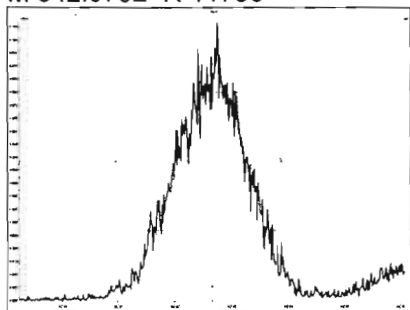
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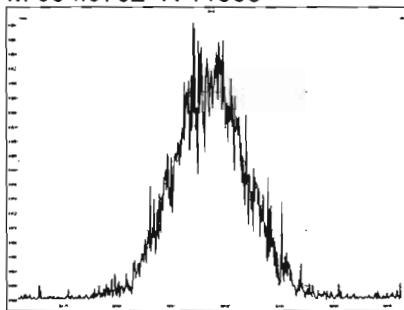
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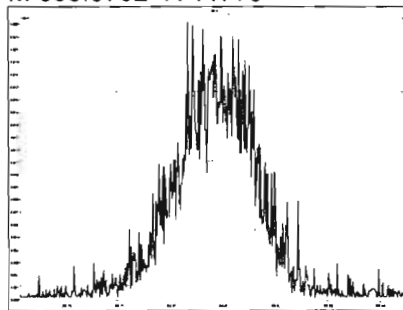
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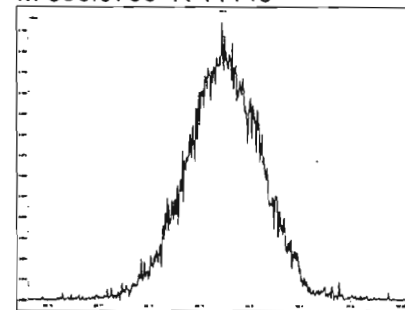
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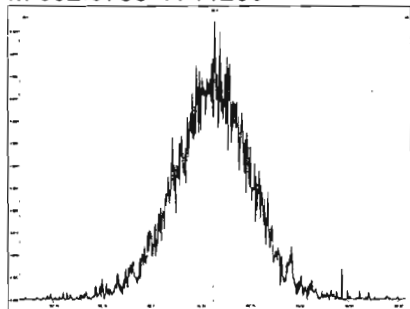
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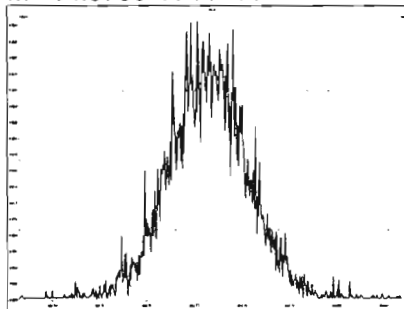
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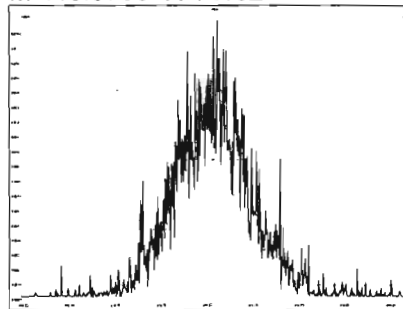
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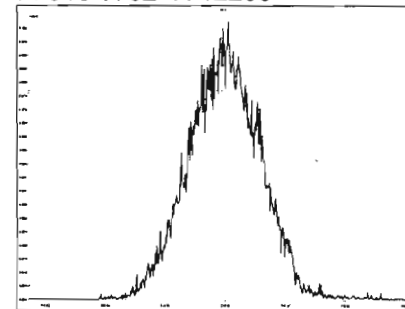
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M 416.9760 R 12132

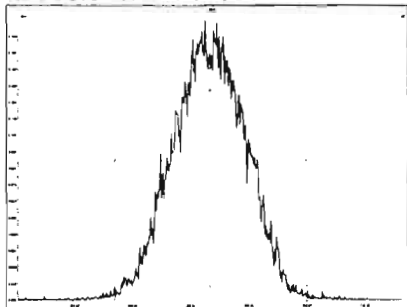


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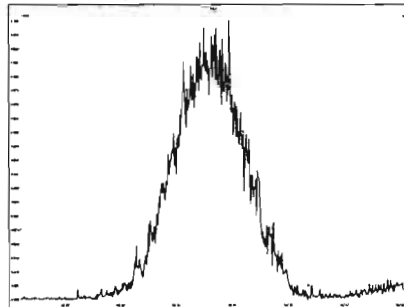


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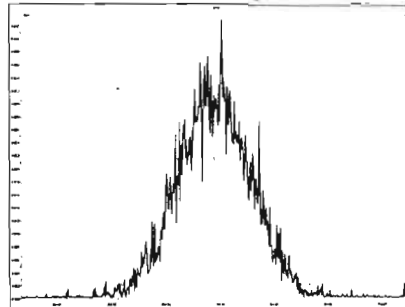
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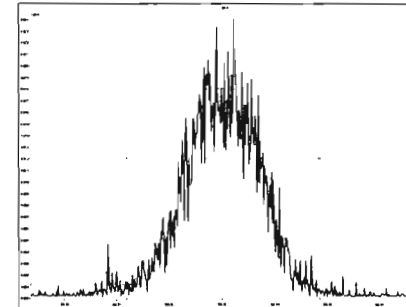
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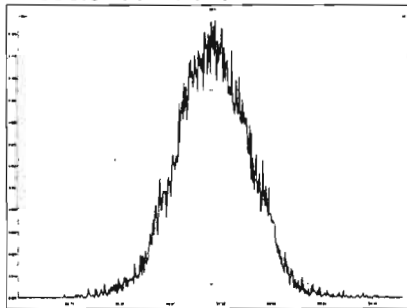
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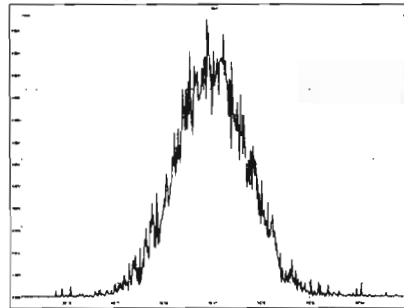
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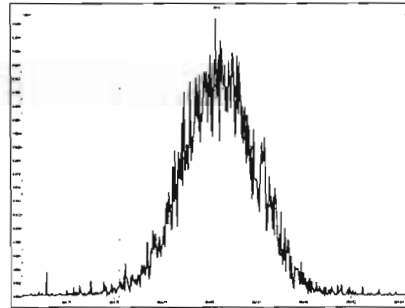
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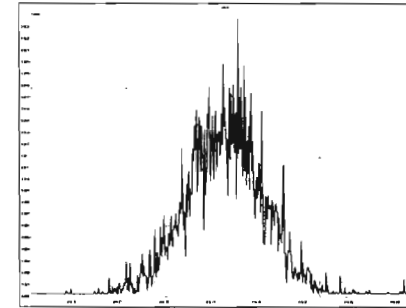
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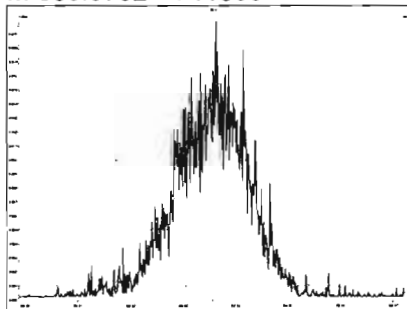
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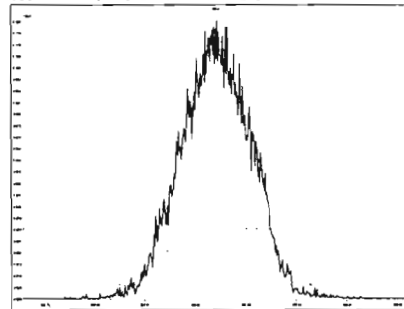
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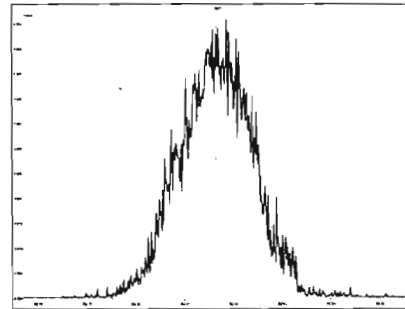
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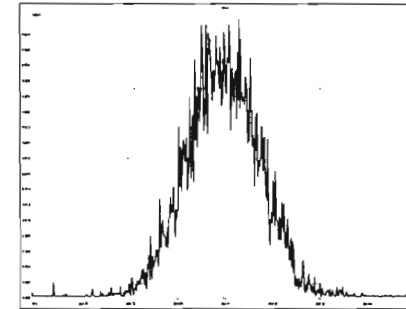
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M 392.9760 R 12090

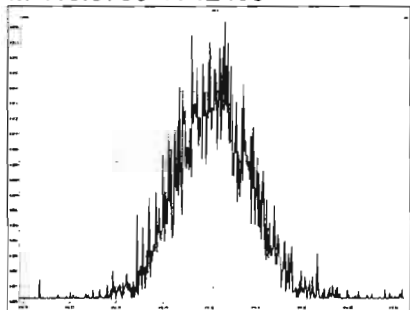


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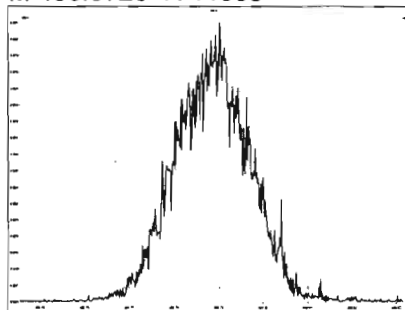


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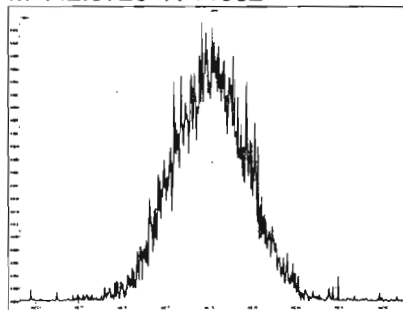
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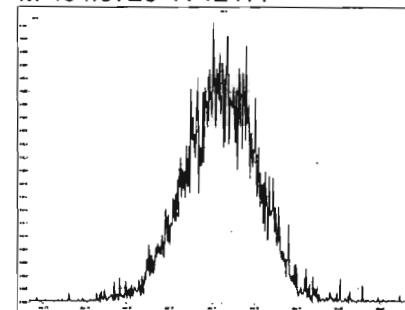
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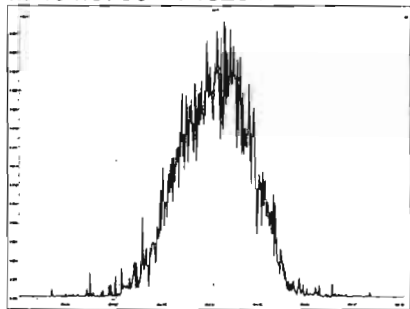
M 442.9728 R 11962



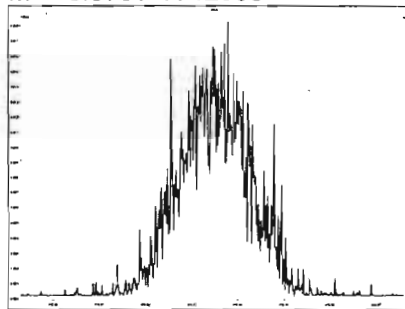
M 454.9728 R 12177



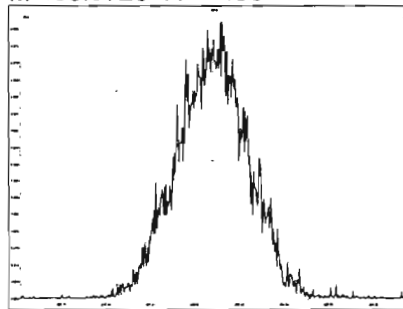
M 404.9760 R 13264



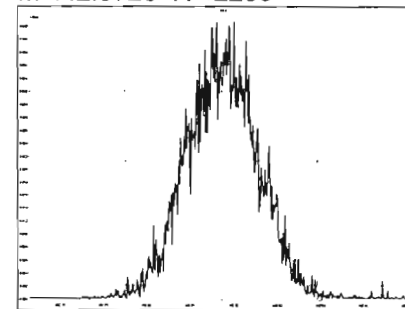
M 416.9760 R 12953



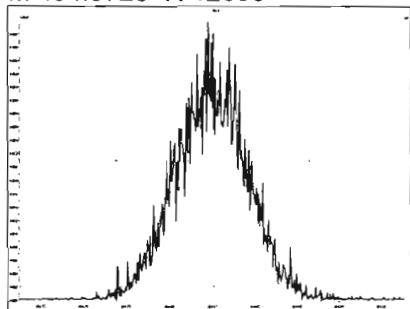
M 430.9728 R 12468



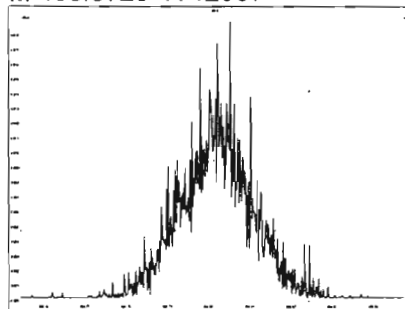
M 442.9728 R 12290



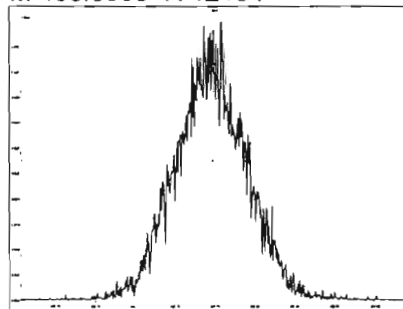
M 454.9728 R 12565



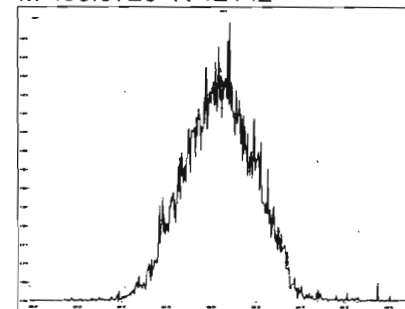
M 466.9728 R 12957



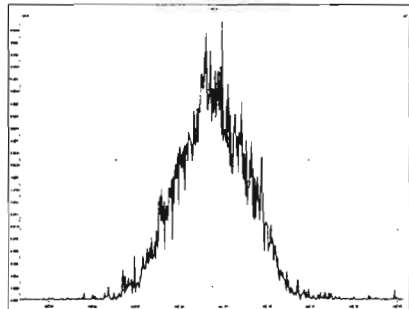
M 480.9696 R 12154



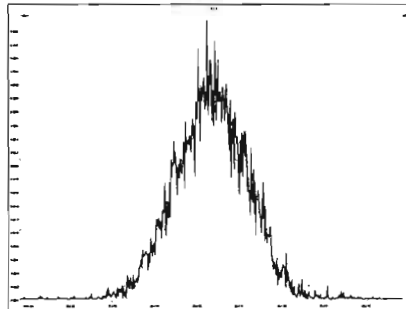
M 430.9728 R 12142



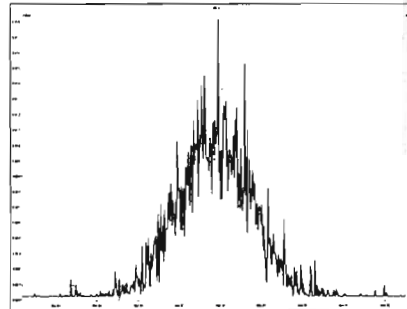
M 442.9728 R 12853



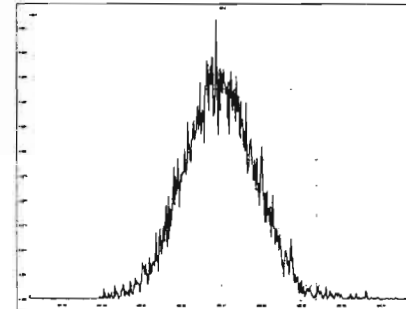
M 454.9728 R 12213



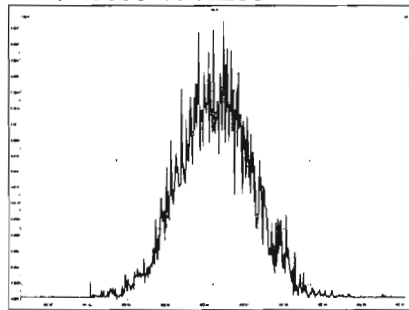
M 466.9728 R 12501



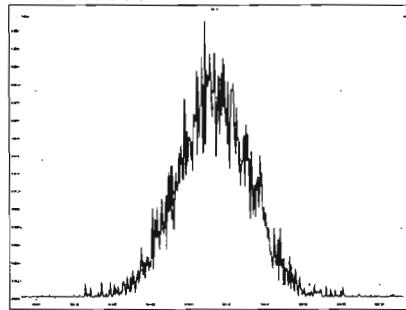
M 480.9696 R 12255



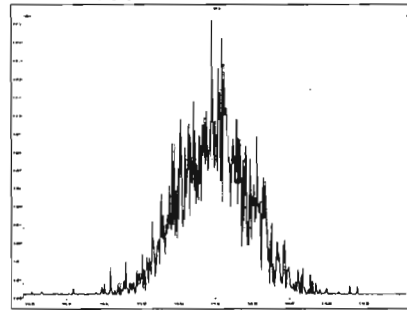
M 492.9696 R 12255



M 504.9696 R 12406



M 516.9697 R 12265



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

DB 2/12/20 01:02/12/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Compound name: 2,3,7,8-TCDF

Response Factor: 0.9819
RRF SD: 0.0791981, Relative SD: 8.06581
Response type: Internal Std (Ref 2), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	0.250	0.86	NO	17.23	3.04e2	1.39e5	0.223	0.876
2	2 200211D2_4	0.500	0.66	NO	17.22	6.08e2	1.13e5	0.549	1.08
3	3 200211D2_5	2.00	0.73	NO	17.23	2.63e3	1.30e5	2.06	1.01
4	4 200211D2_6	10.0	0.75	NO	17.23	1.15e4	1.25e5	9.33	0.916
5	5 200211D2_7	40.0	0.74	NO	17.23	5.76e4	1.51e5	39.0	0.957
6	6 200211D2_8	300	0.73	NO	17.23	4.81e5	1.52e5	321	1.05

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.08271
RRF SD: 0.0939058, Relative SD: 8.67318
Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)
Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.72	NO	17.20	1.39e5	1.13e5	113	1.23
2	2 200211D2_4	100	0.71	NO	17.20	1.13e5	1.14e5	91.7	0.993
3	3 200211D2_5	100	0.71	NO	17.20	1.30e5	1.34e5	89.3	0.967
4	4 200211D2_6	100	0.75	NO	17.20	1.25e5	1.15e5	101	1.09
5	5 200211D2_7	100	0.71	NO	17.20	1.51e5	1.35e5	103	1.11
6	6 200211D2_8	100	0.72	NO	17.20	1.52e5	1.38e5	102	1.11

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:35:39 Pacific Standard Time

Compound name: 13C-1,2,3,4-TCDF

Response Factor: 1

RRF SD: 7.02167e-017, Relative SD: 7.02167e-015

Response type: Internal Std (Ref 3), Area * (IS Conc. / IS Area)

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.70	NO	15.17	1.13e5	1.13e5	100	1.00
2	2 200211D2_4	100	0.71	NO	15.18	1.14e5	1.14e5	100	1.00
3	3 200211D2_5	100	0.74	NO	15.17	1.34e5	1.34e5	100	1.00
4	4 200211D2_6	100	0.72	NO	15.17	1.15e5	1.15e5	100	1.00
5	5 200211D2_7	100	0.73	NO	15.17	1.35e5	1.35e5	100	1.00
6	6 200211D2_8	100	0.73	NO	15.17	1.38e5	1.38e5	100	1.00

Compound name: 13C-1,2,3,4-TCDD

Response Factor: 1026.38

RRF SD: 123.841, Relative SD: 12.0658

Response type: External Std, Area

Curve type: RF

	# Name	Std. Conc	RA	n/y	RT	Resp	IS Resp	Conc.	RRF
1	1 200211D2_3	100	0.79	NO	15.78	1.04e5		102	1040
2	2 200211D2_4	100	0.77	NO	15.78	8.57e4		83.5	857
3	3 200211D2_5	100	0.79	NO	15.78	9.44e4		92.0	944
4	4 200211D2_6	100	0.79	NO	15.78	9.87e4		96.1	987
5	5 200211D2_7	100	0.78	NO	15.78	1.13e5		110	1130
6	6 200211D2_8	100	0.78	NO	15.78	1.20e5		116	1200

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

	# Name	Resp	RA	n/y	RRF M...	w/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.982	1.000	17.23	0.22305	89.2	0.0931
2	2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	113.42	113	0.342
3	3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	100.00	100	0.371
4	4 13C-1,2,3,4-TCDD	1.04e5	0.79	NO	1030	1.000	15.78	101.65	102	0.291

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	6.08e2	0.66	NO	0.982	1.000	17.22	0.54947	110	0.147
2	2 13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	91.711	91.7	0.381
3	3 13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	100.00	100	0.412
4	4 13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1030	1.000	15.78	83.528	83.5	0.324

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_5, Date: 11-Feb-2020, Time: 22:04:03, ID: ST200211D2-3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	2.63e3	0.73	NO	0.982	1.000	17.23	2.0631	103	0.121
2	2 13C-2,3,7,8-TCDF	1.30e5	0.71	NO	1.08	1.000	17.20	89.279	89.3	0.292
3	3 13C-1,2,3,4-TCDF	1.34e5	0.74	NO	1.00	1.000	15.17	100.00	100	0.316
4	4 13C-1,2,3,4-TCDD	9.44e4	0.79	NO	1030	1.000	15.78	92.007	92.0	0.336

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 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	1.15e4	0.75	NO	0.982	1.000	17.23	9.3257	93.3	0.185
2	2 13C-2,3,7,8-TCDF	1.25e5	0.75	NO	1.08	1.000	17.20	100.76	101	0.364
3	3 13C-1,2,3,4-TCDF	1.15e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.394
4	4 13C-1,2,3,4-TCDD	9.87e4	0.79	NO	1030	1.000	15.78	96.149	96.1	0.331

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	5.76e4	0.74	NO	0.982	1.000	17.23	38.981	97.5	0.158
2	2 13C-2,3,7,8-TCDF	1.51e5	0.71	NO	1.08	1.000	17.20	102.61	103	0.300
3	3 13C-1,2,3,4-TCDF	1.35e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.325
4	4 13C-1,2,3,4-TCDD	1.13e5	0.78	NO	1030	1.000	15.78	110.19	110	0.311

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:38:05 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

	# Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	1 2,3,7,8-TCDF	4.81e5	0.73	NO	0.982	1.000	17.23	321.06	107	0.243
2	2 13C-2,3,7,8-TCDF	1.52e5	0.72	NO	1.08	1.000	17.20	102.22	102	0.295
3	3 13C-1,2,3,4-TCDF	1.38e5	0.73	NO	1.00	1.000	15.17	100.00	100	0.319
4	4 13C-1,2,3,4-TCDD	1.20e5	0.78	NO	1030	1.000	15.78	116.47	116	0.322

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

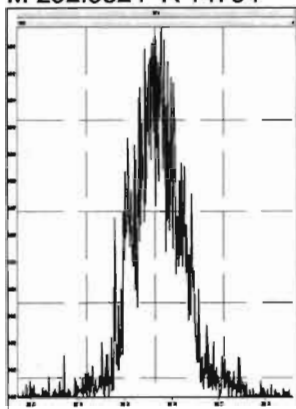
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Callbration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

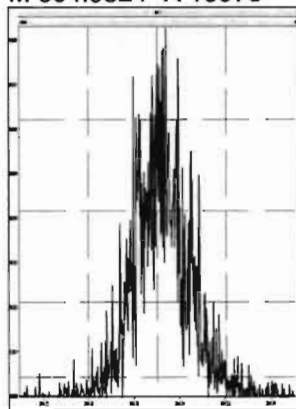
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200211D2_1	SOLVENT BLANK	11-Feb-20	19:58:43
2	200211D2_2	CP200211D2-1 DB-225 CPSM	11-Feb-20	20:28:53
3	200211D2_3	ST200211D2-1 1613 CS0 19L2302	11-Feb-20	21:00:36
4	200211D2_4	ST200211D2-2 1613 CS1 19L2303	11-Feb-20	21:32:19
5	200211D2_5	ST200211D2-3 1613 CS2 19L2304	11-Feb-20	22:04:03
6	200211D2_6	ST200211D2-4 1613 CS3 19L2305	11-Feb-20	22:35:45
7	200211D2_7	ST200211D2-5 1613 CS4 19L2306	11-Feb-20	23:07:28
8	200211D2_8	ST200211D2-6 1613 CS5 19L2307	11-Feb-20	23:39:11
9	200211D2_9	SOLVENT BLANK	12-Feb-20	00:10:54
10	200211D2_10	SS200211D2-1 1613 SSS 19L2308	12-Feb-20	00:42:33
11	200211D2_11	SOLVENT BLANK	12-Feb-20	01:14:15
12	200211D2_12	1903740-08RE1 PDI-097SC-B-06-08-191017 ...	12-Feb-20	01:45:58
13	200211D2_13	1903740-07RE1 PDI-097SC-B-04-06-191017 ...	12-Feb-20	02:17:39
14	200211D2_14	1903740-06RE1 PDI-097SC-B-02-04-191017 ...	12-Feb-20	02:49:21
15	200211D2_15	1903740-01RE1 PDI-031SC-B-00-02-191017 ...	12-Feb-20	03:21:03
16	200211D2_16	1903740-05RE1 PDI-097SC-B-00-02-191017 ...	12-Feb-20	03:52:45

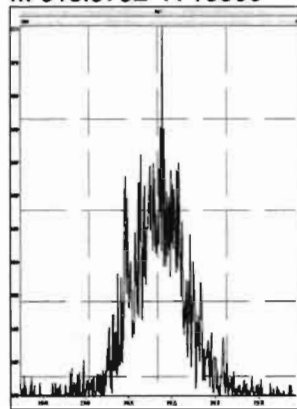
M 292.9824 R 14754



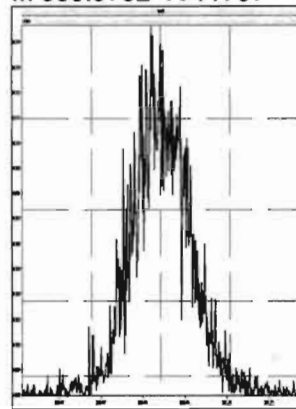
M 304.9824 R 15978



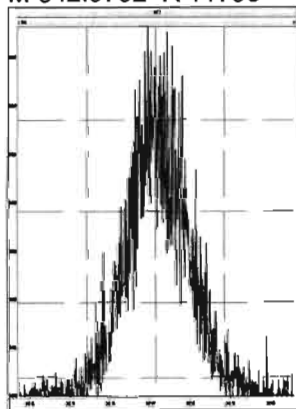
M 318.9792 R 15503



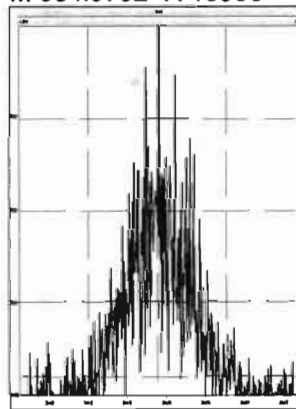
M 330.9792 R 11737



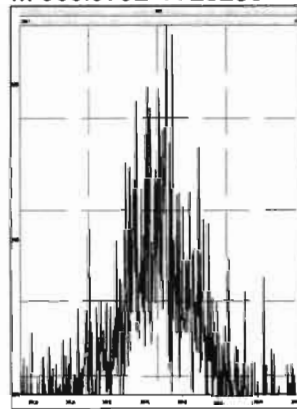
M 342.9792 R 11796



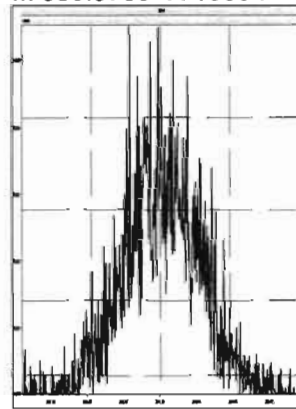
M 354.9792 R 15966

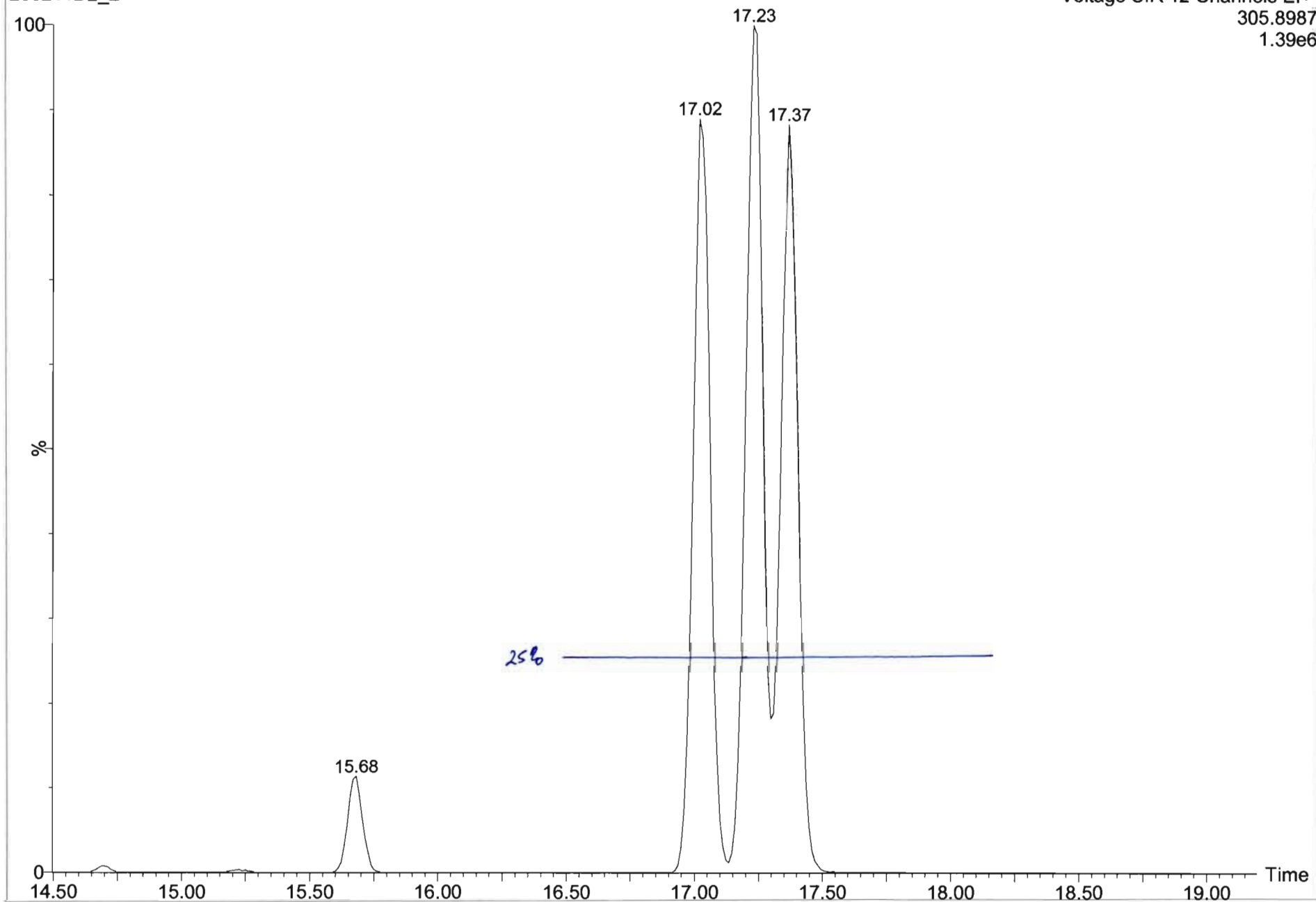


M 366.9792 R 28256



M 380.9760 R 13094





Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

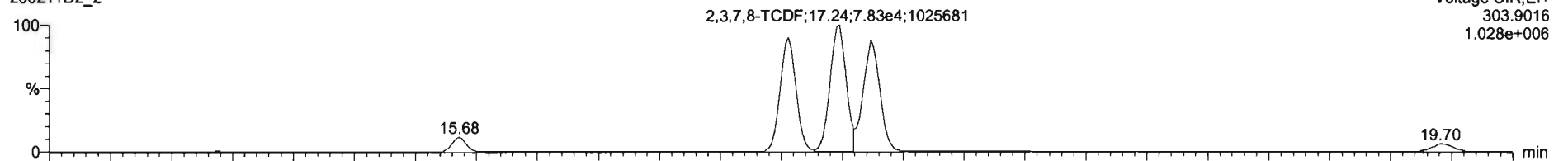
Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: C:\MassLynx\Default.PRO\CurveDB\db-225_m23tcdfvg7-2-11-20.cdb 11 Feb 2020 14:52:18

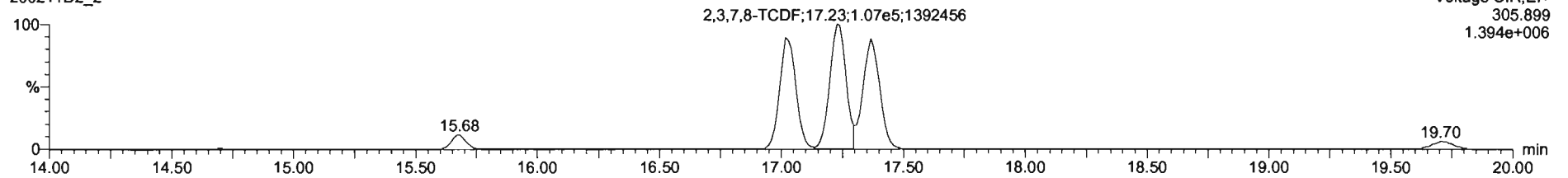
Name: 200211D2_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF

200211D2_2

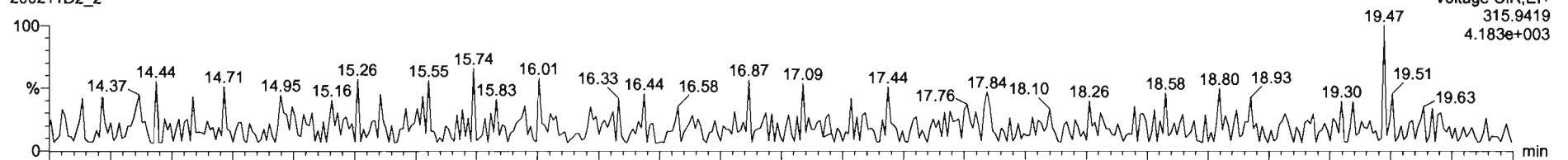


200211D2_2

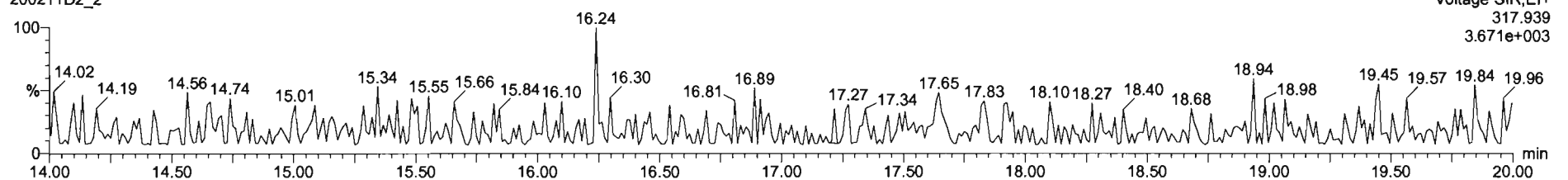


13C-2,3,7,8-TCDF

200211D2_2



200211D2_2

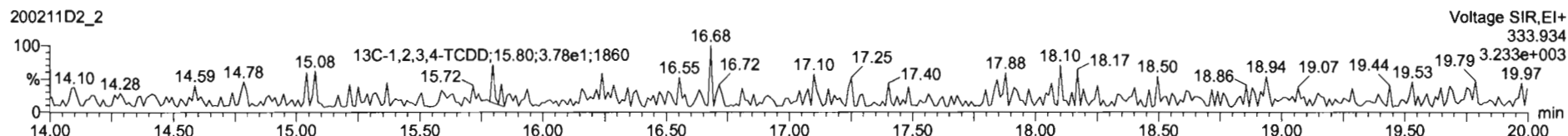
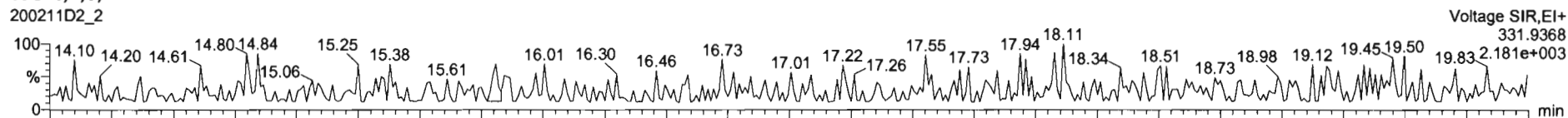


Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

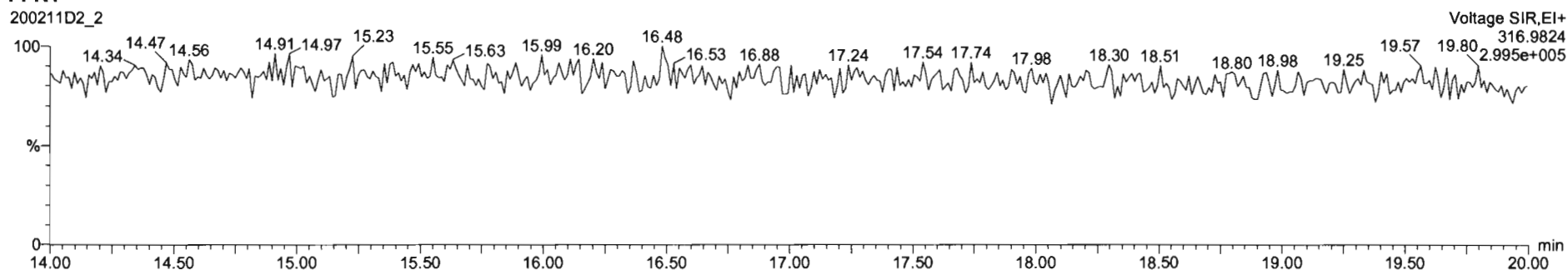
Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:15:34 Pacific Standard Time

Name: 200211D2_2, Date: 11-Feb-2020, Time: 20:28:53, ID: CP200211D2-1 DB-225 CPSM, Description: DB-225 CPSM

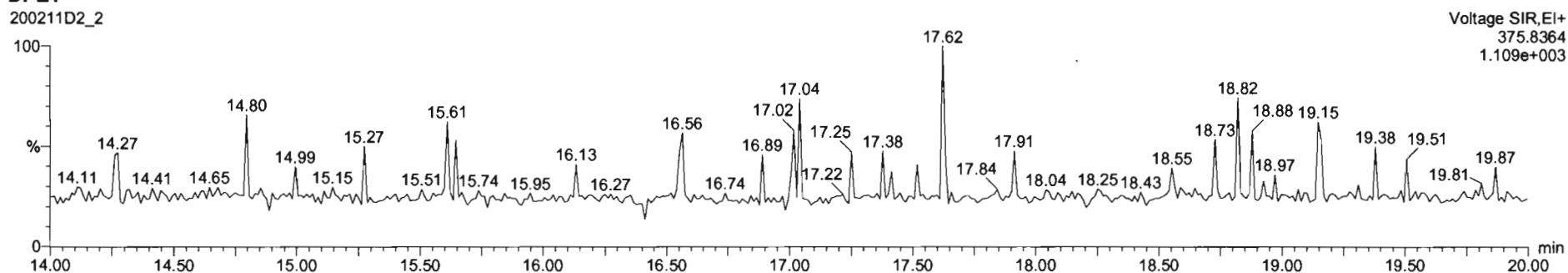
13C-1,2,3,4-TCDD



PFK1



DPE1



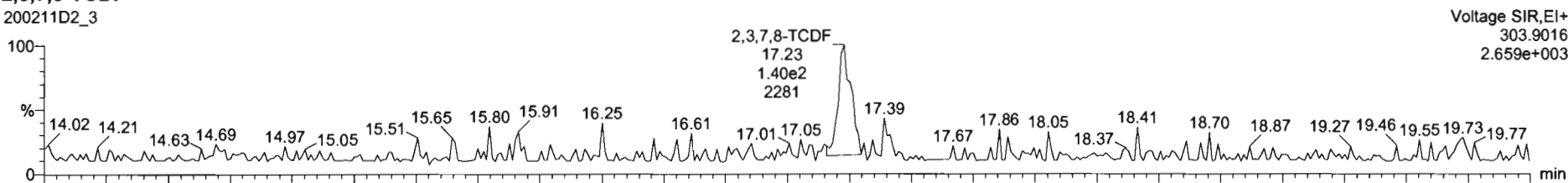
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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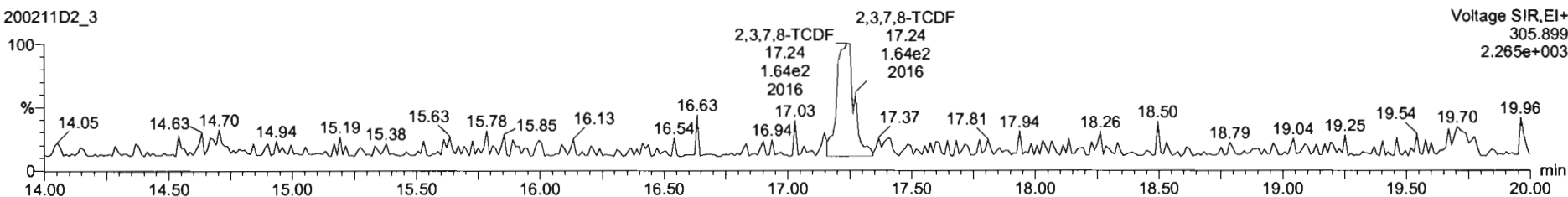
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

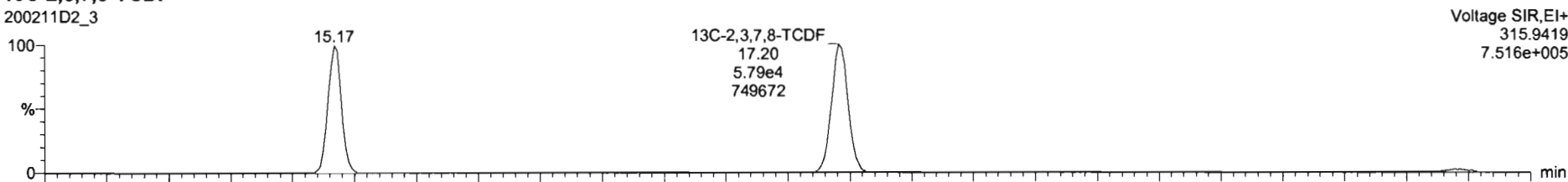
2,3,7,8-TCDF
200211D2_3



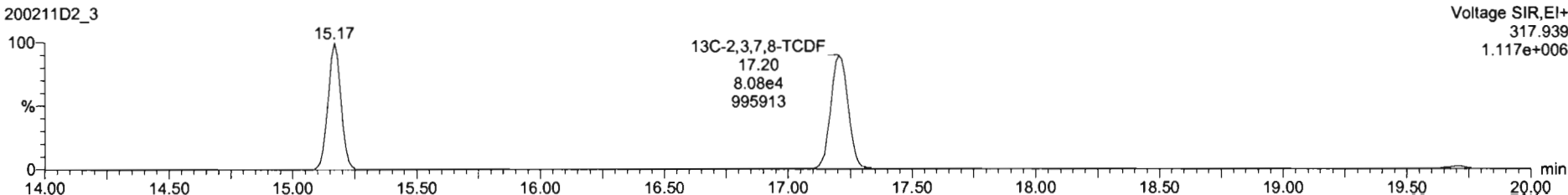
200211D2_3



13C-2,3,7,8-TCDF
200211D2_3



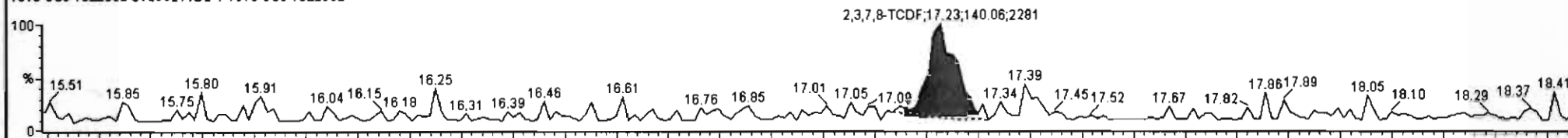
200211D2_3



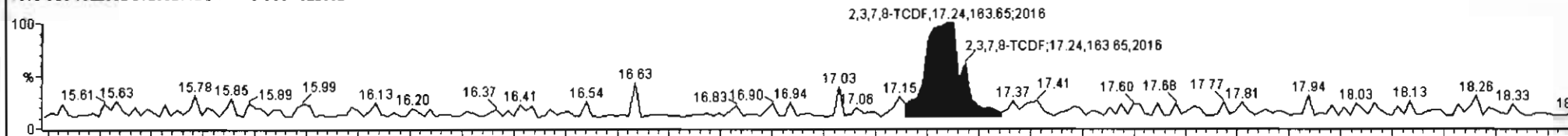
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	0.79	NO	1026.38	1.000	15.78	0.000	102	102	0.291	
5 PFOS					1.000						
6 DPE1					1.000						

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

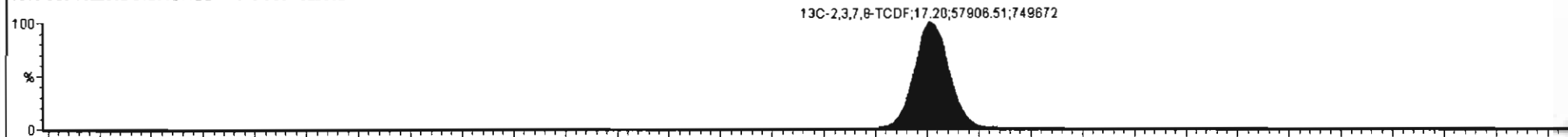
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



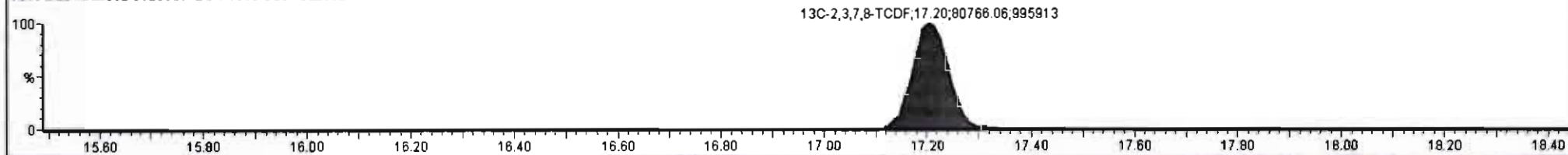
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



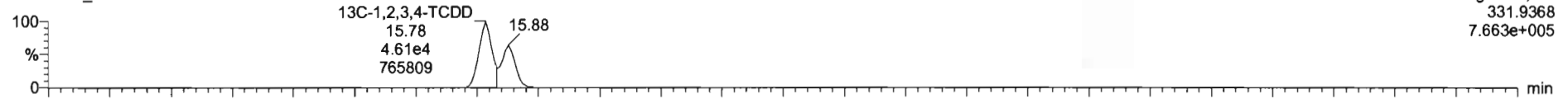
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

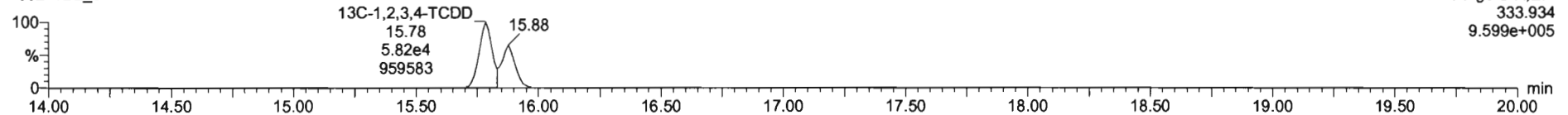
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13C-1,2,3,4-TCDD

200211D2_3

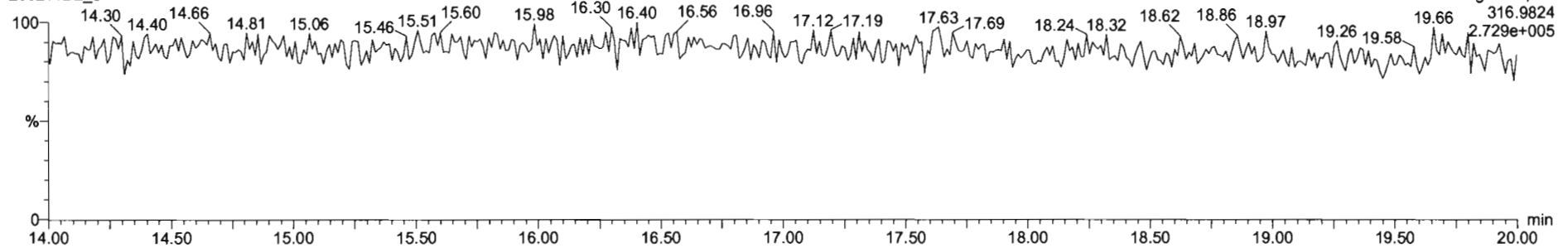


200211D2_3



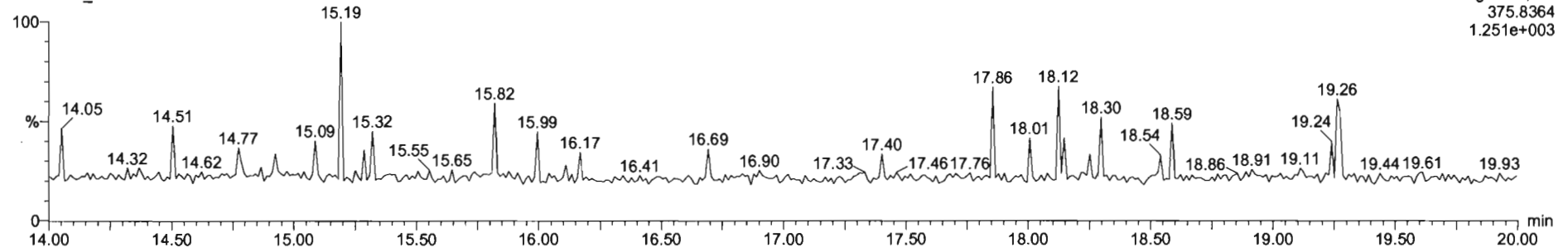
PFK1

200211D2_3



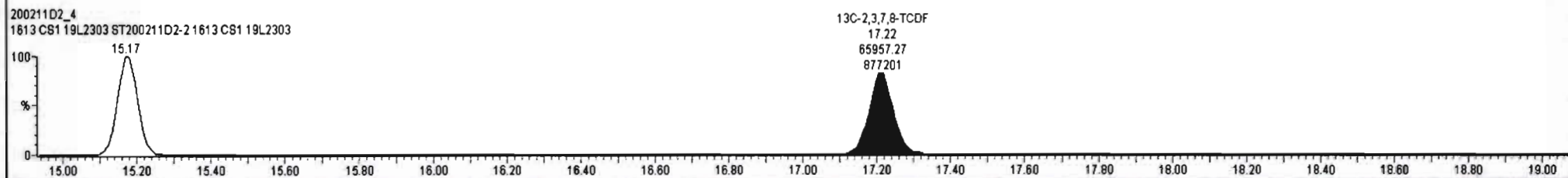
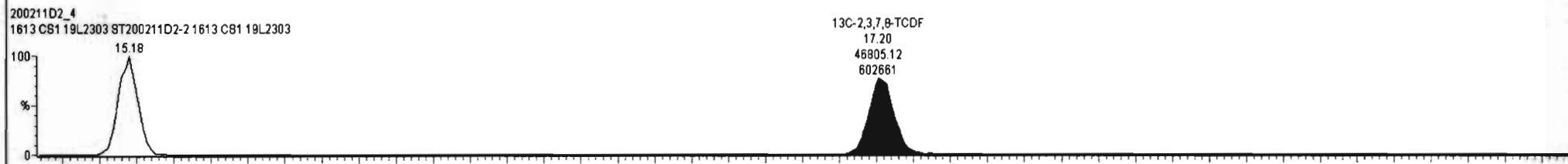
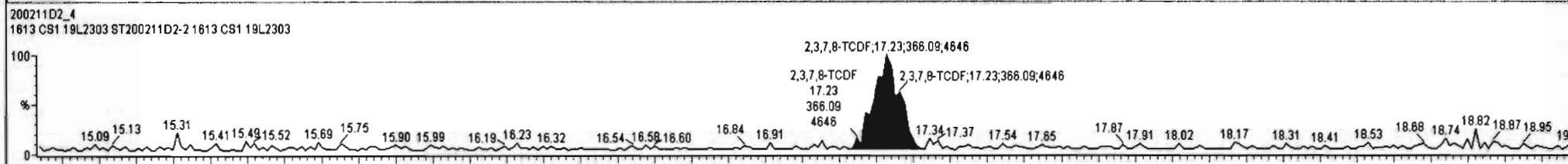
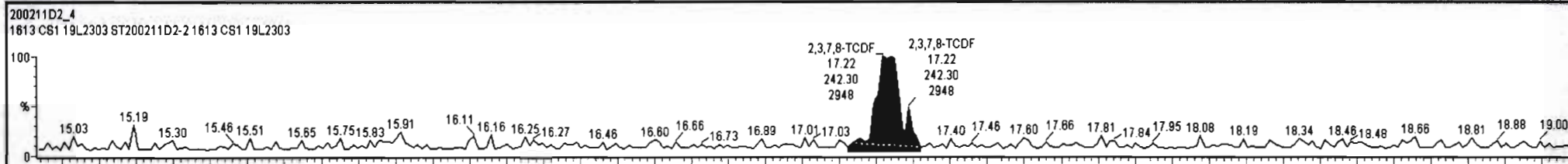
DPE1

200211D2_3



#	Name	Resp	RA	ruy	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EWPC
1	2,3,7,8-TCDF	8.09e2	0.66	NO	0.98	1.000	17.22	1.001	0.548	110	0.147	0.549
2	13C-2,3,7,8-TCDF	1.13e5	0.71	NO	1.08	1.000	17.20	1.133	91.7	91.7	0.381	
3	13C-1,2,3,4-TCDF	1.14e5	0.71	NO	1.00	1.000	15.18	1.000	100	100	0.412	
4	13C-1,2,3,4-TCDD	8.57e4	0.77	NO	1026.38	1.000	15.78	0.000	83.5	83.5	0.324	
5	PFK1					1.000						
6	DPF1					1.000						

#	Name	RT	int Resp	m2 Resp	RA	ruy	EWPC	Conc.
1								



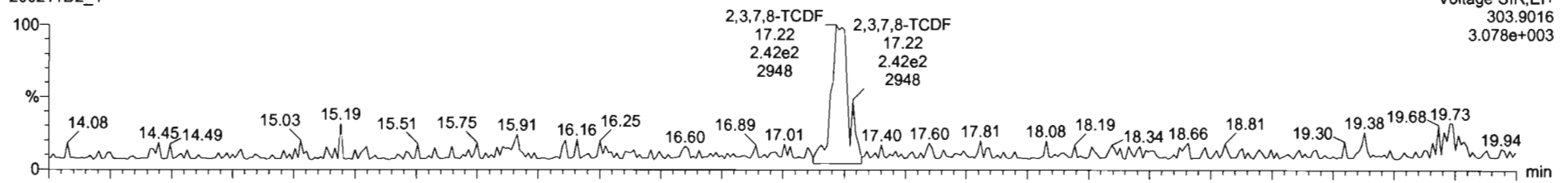
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

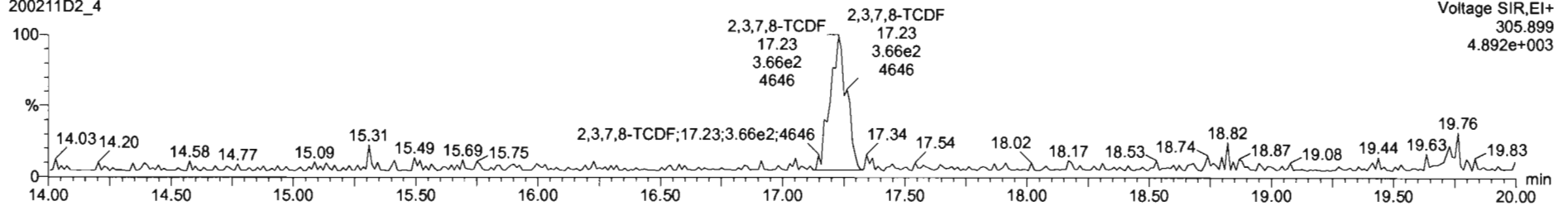
Name: 200211D2_4, Date: 11-Feb-2020, Time: 21:32:19, ID: ST200211D2-2 1613 CS1 19L2303, Description: 1613 CS1 19L2303

2,3,7,8-TCDF

200211D2_4

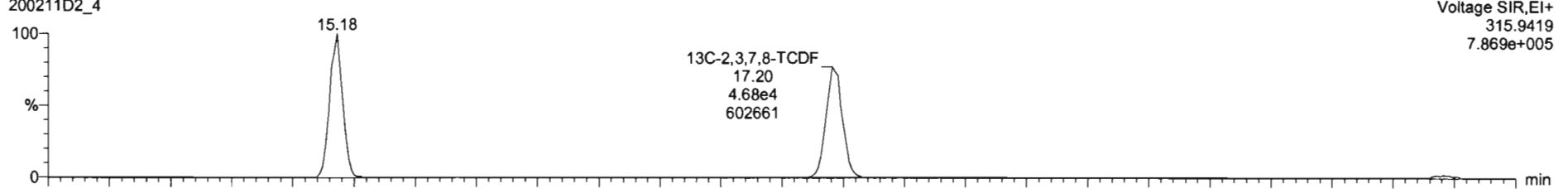


200211D2_4

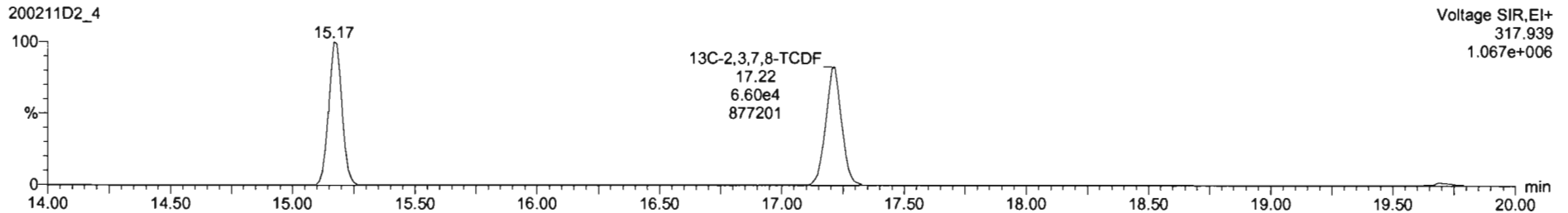


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



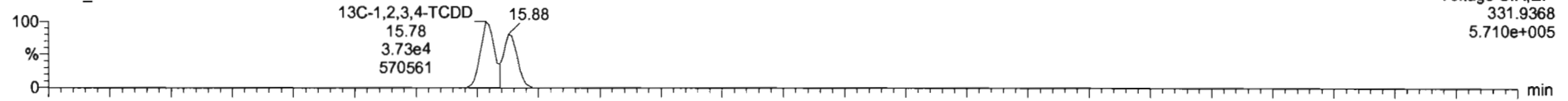
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

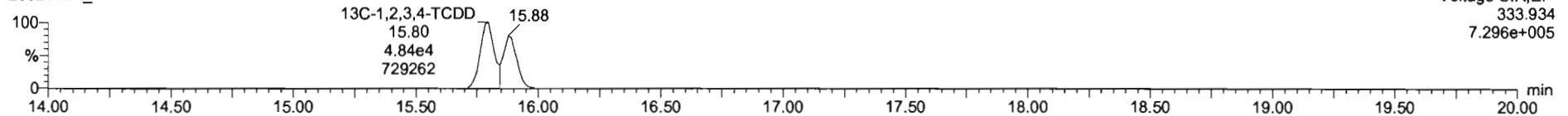
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13C-1,2,3,4-TCDD

200211D2_4

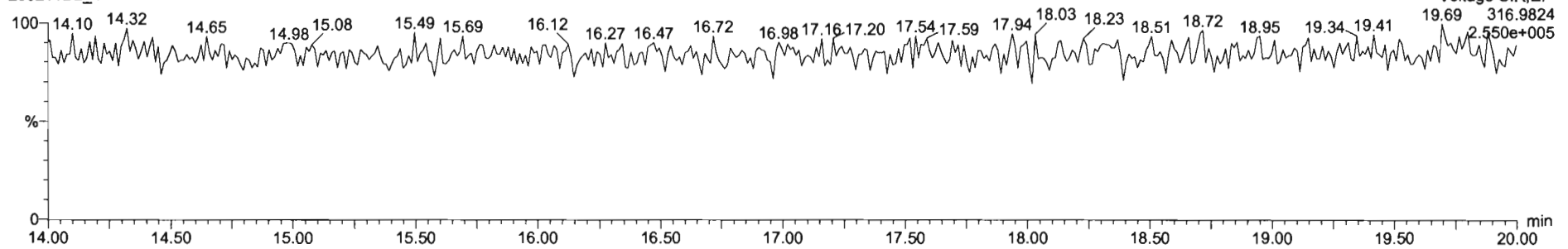


200211D2_4



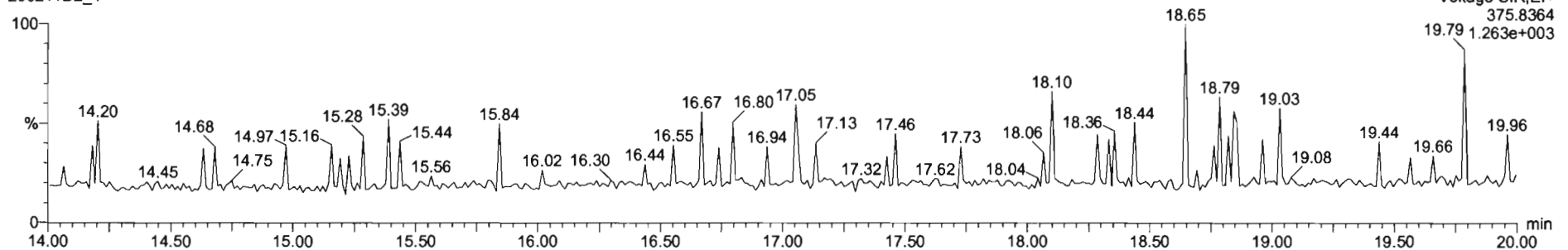
PFK1

200211D2_4



DPE1

200211D2_4



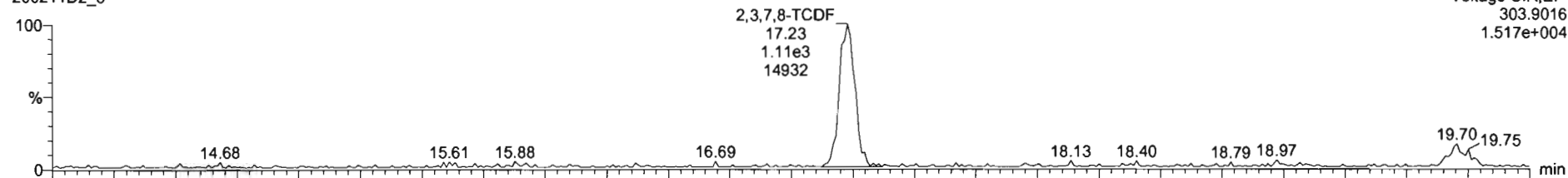
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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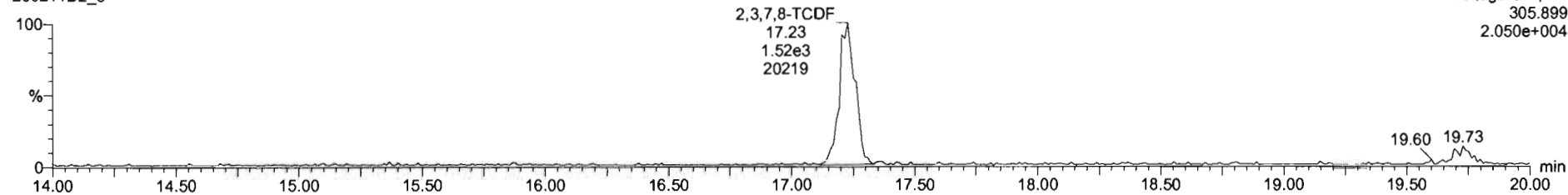
2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
303.9016
1.517e+004

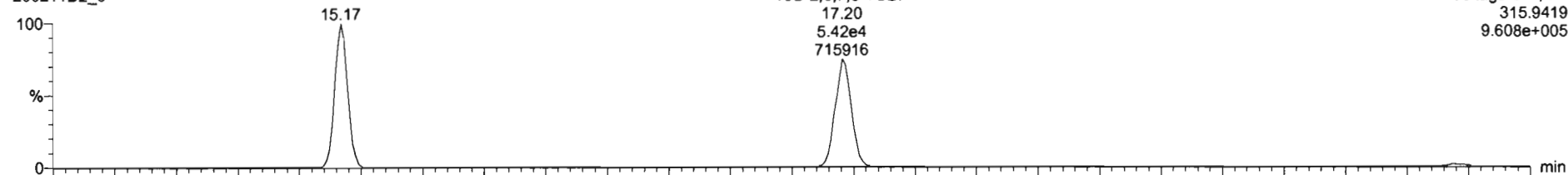
200211D2_5



Voltage SIR,EI+
305.899
2.050e+004

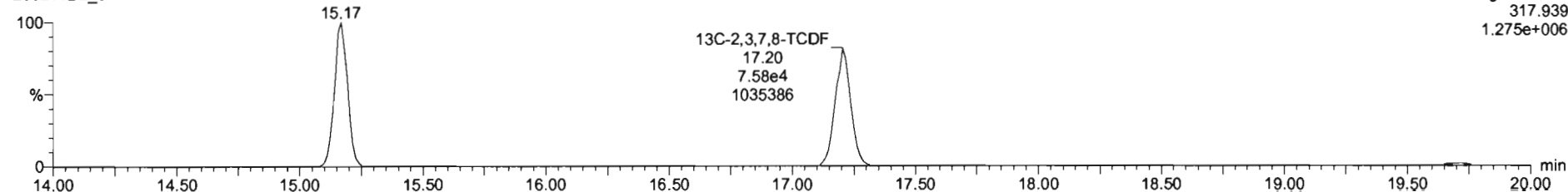
13C-2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
315.9419
9.608e+005

200211D2_5



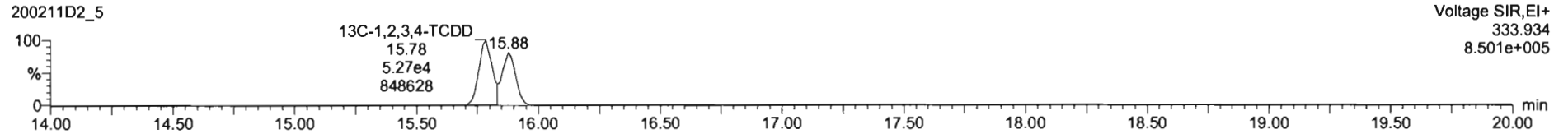
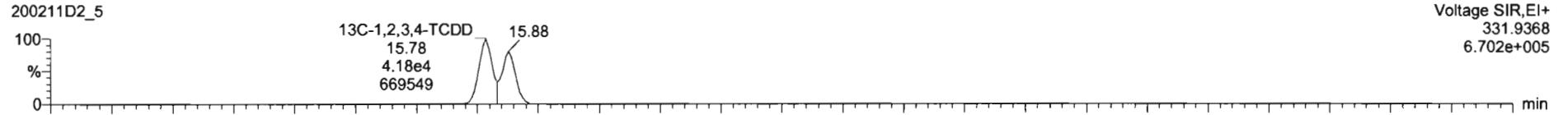
Voltage SIR,EI+
317.939
1.275e+006

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

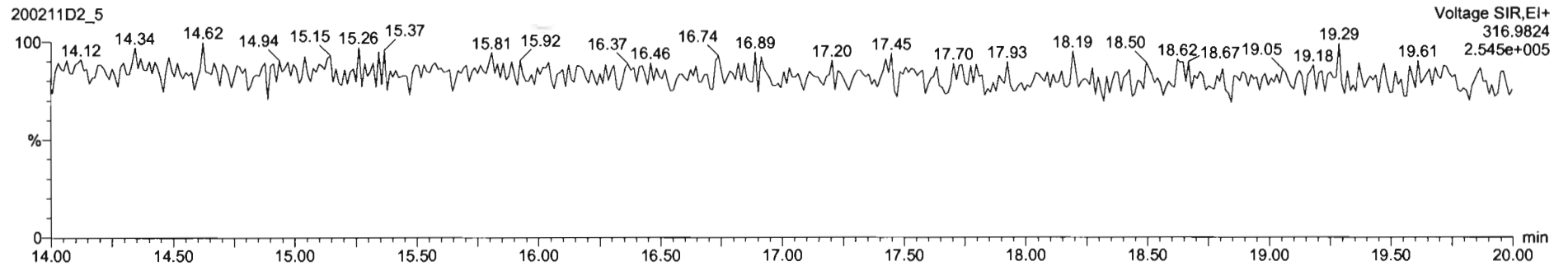
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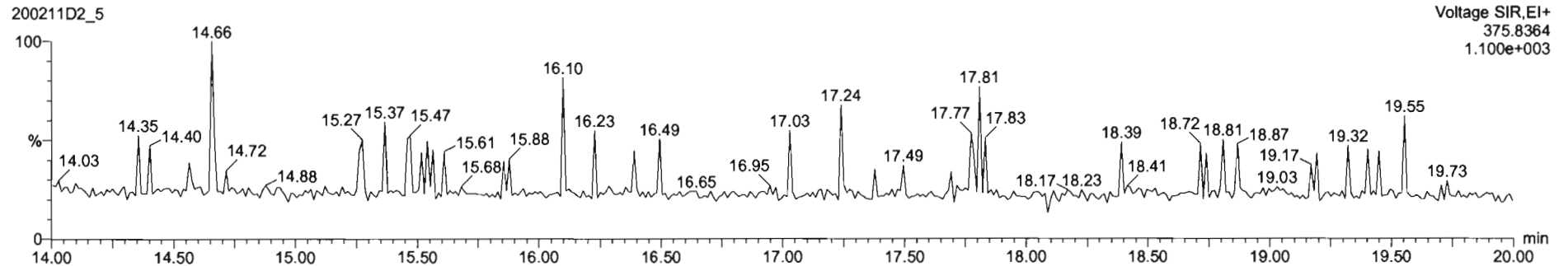
13C-1,2,3,4-TCDD



PFK1



DPE1



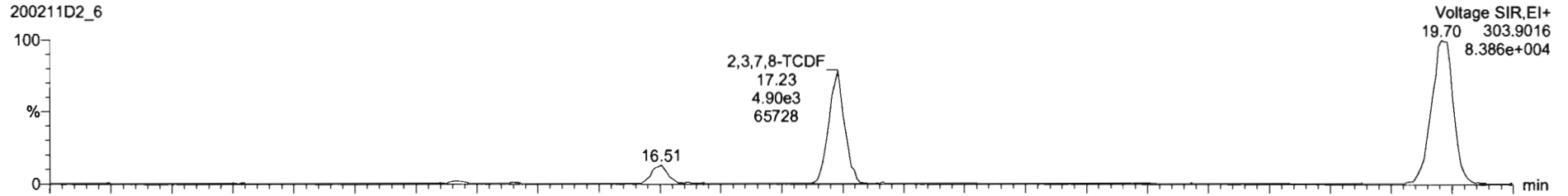
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

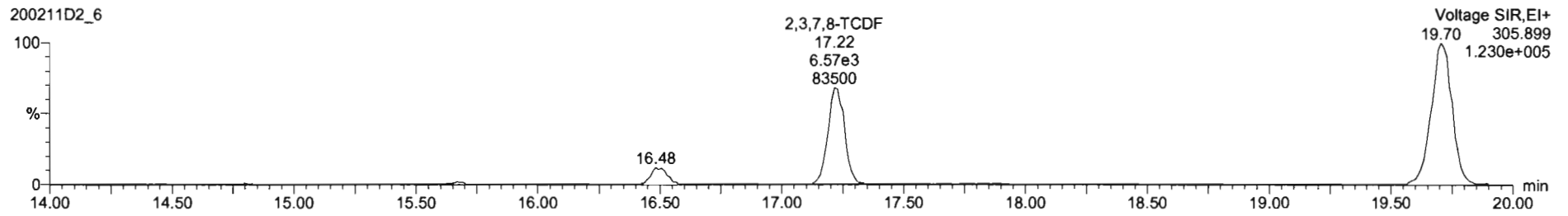
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2,3,7,8-TCDF

200211D2_6

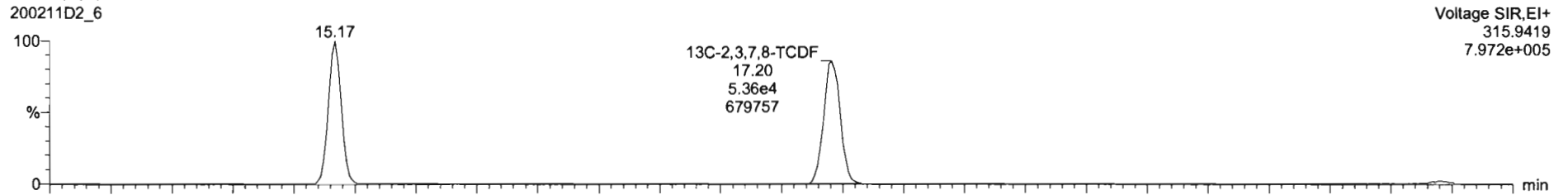


200211D2_6

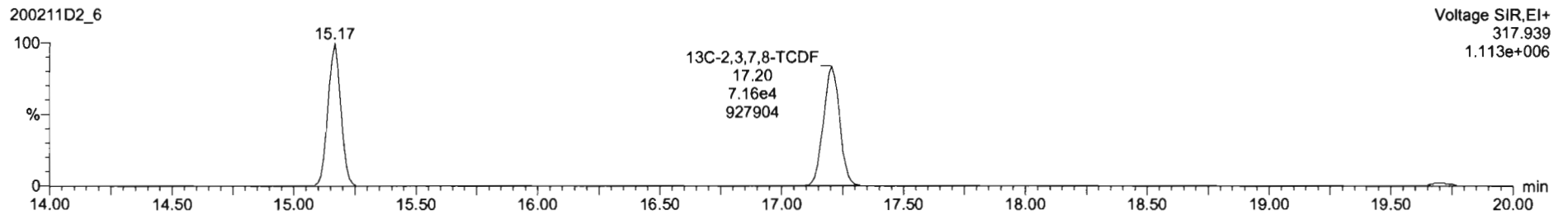


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



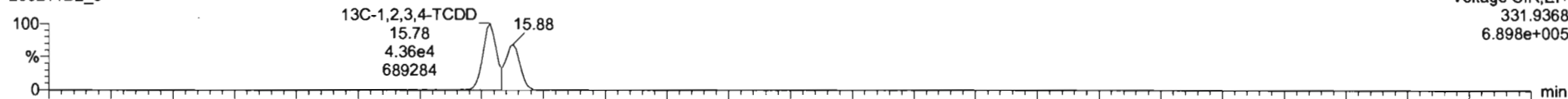
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

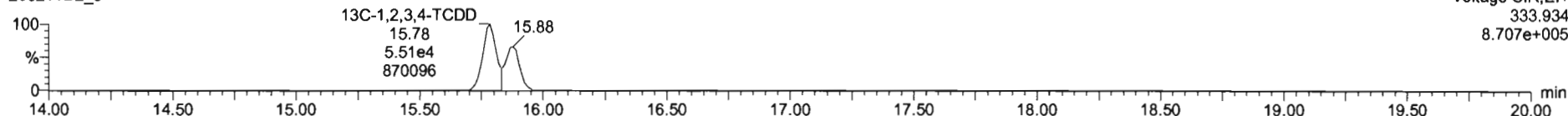
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13C-1,2,3,4-TCDD

200211D2_6

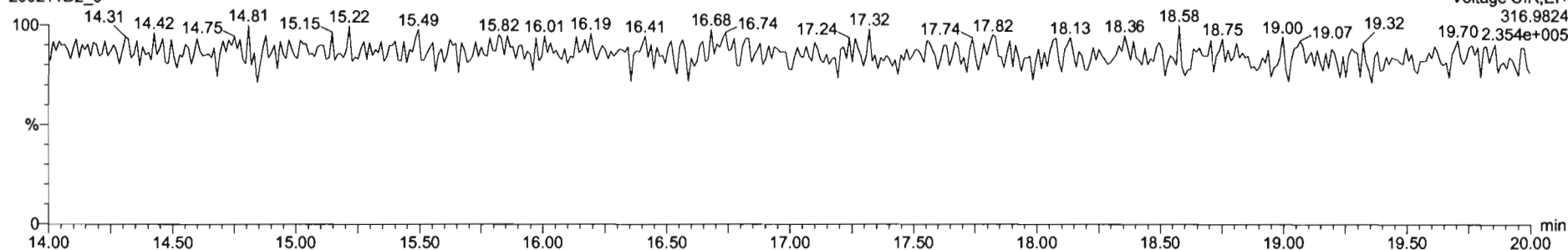


200211D2_6



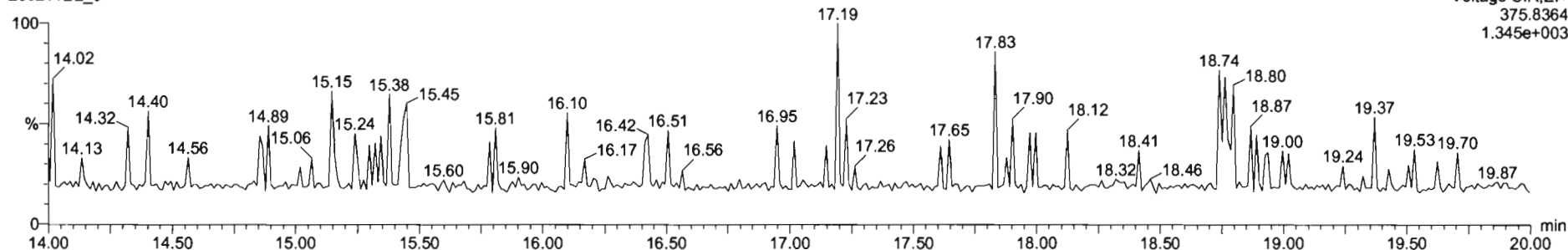
PFK1

200211D2_6



DPE1

200211D2_6



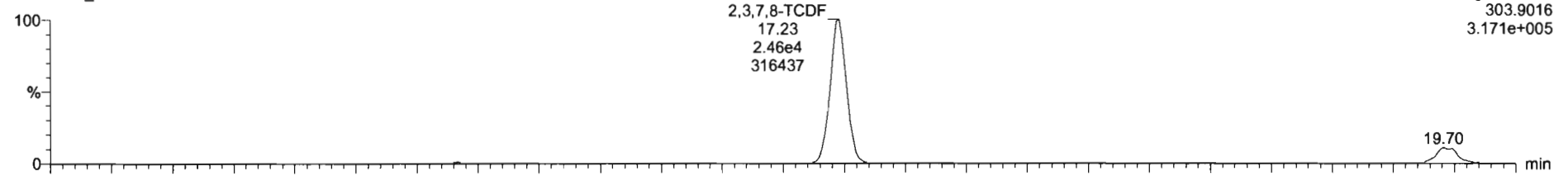
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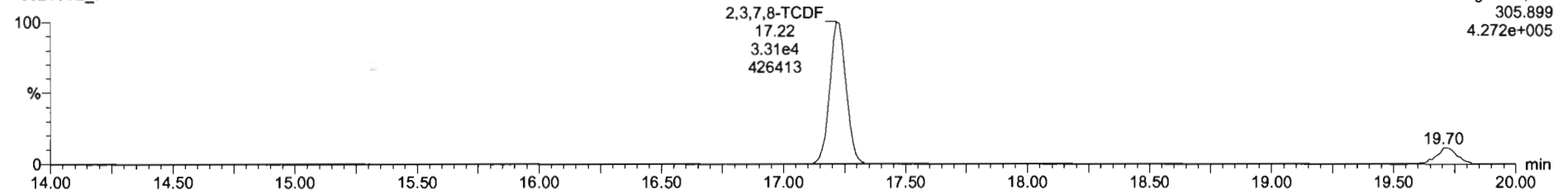
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2,3,7,8-TCDF

200211D2_7

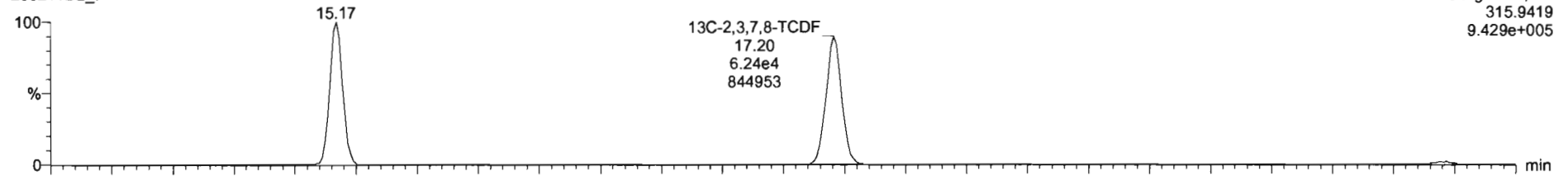


200211D2_7

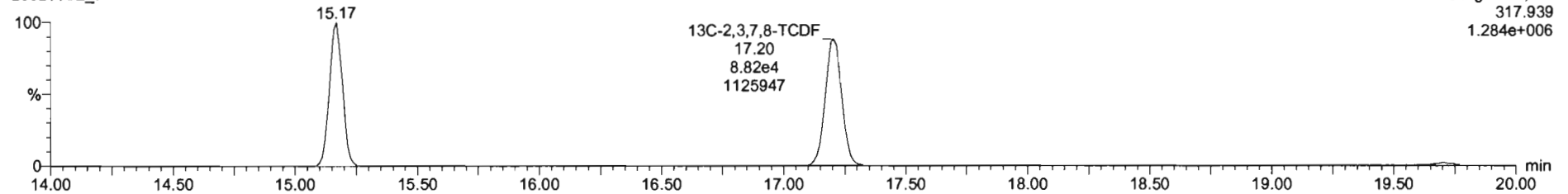


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



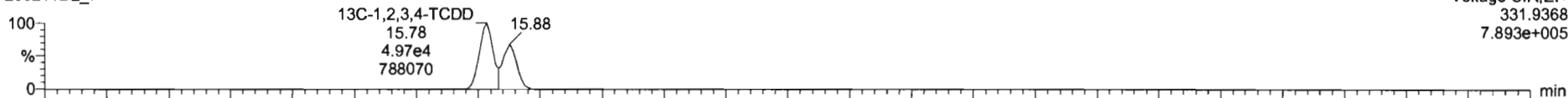
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

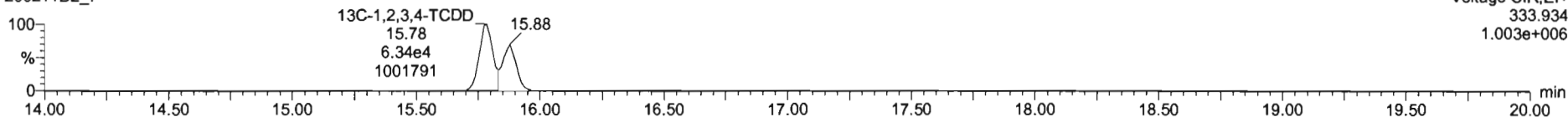
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

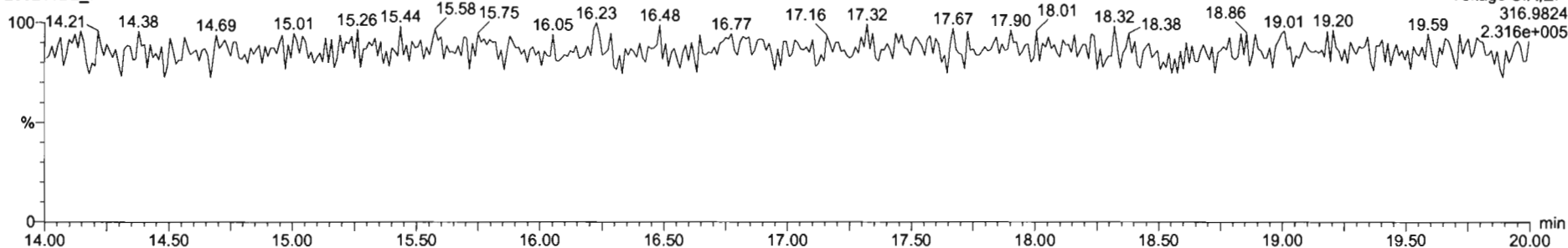


200211D2_7



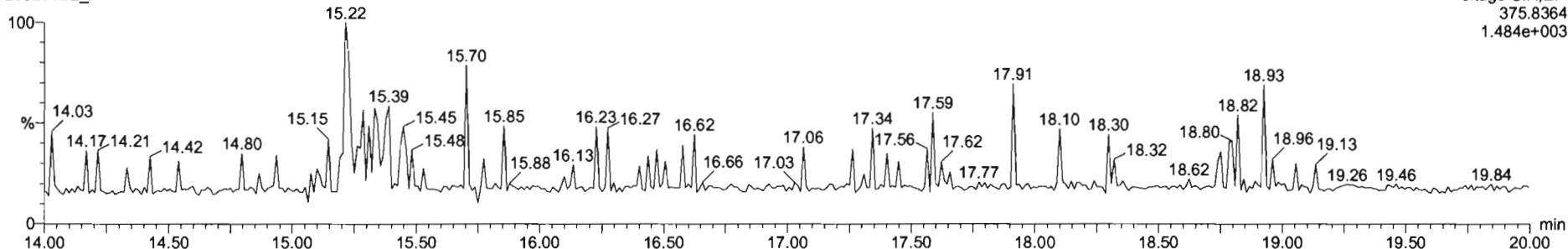
PFK1

200211D2_7



DPE1

200211D2_7



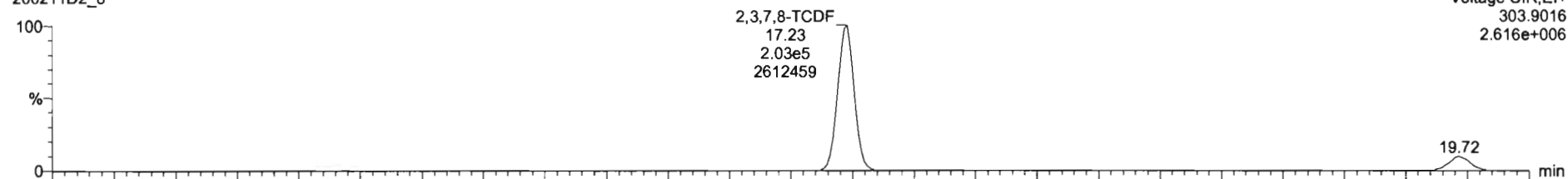
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

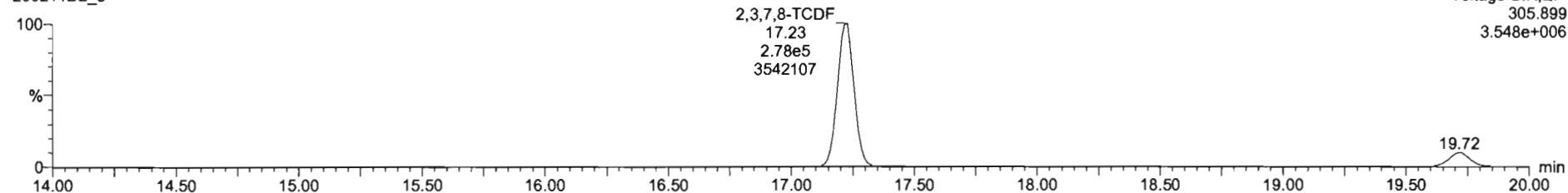
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

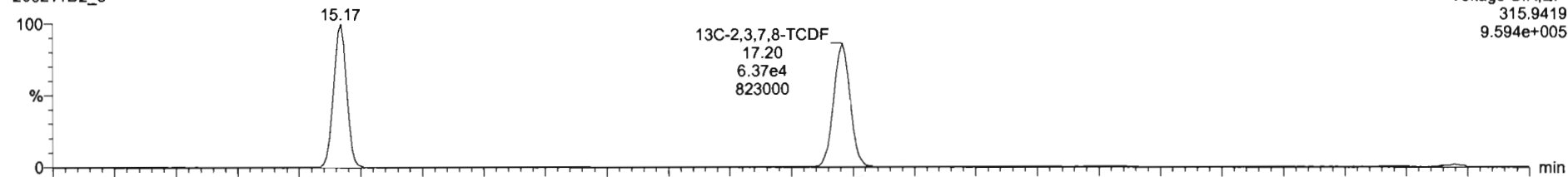
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

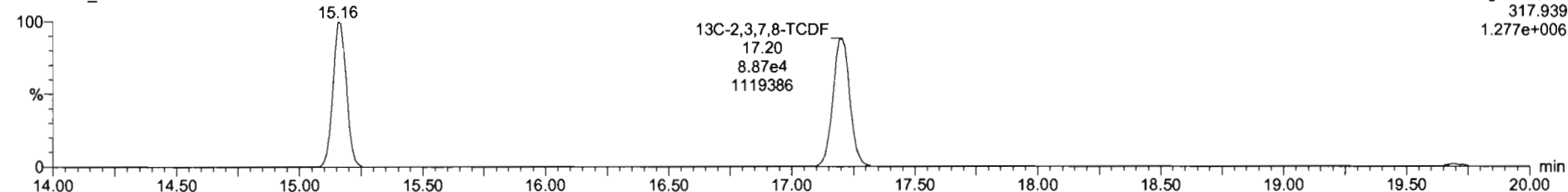
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

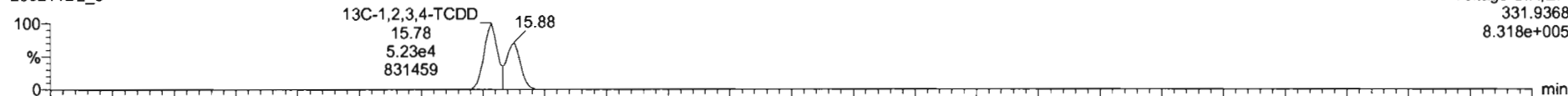
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

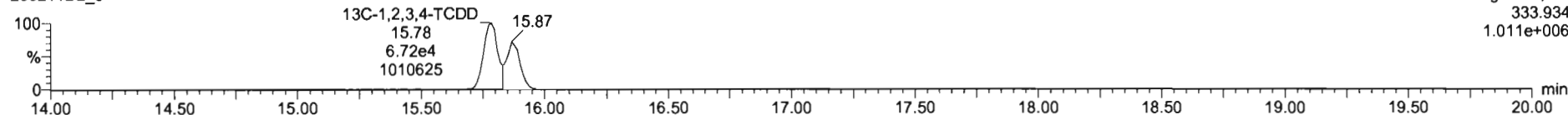
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13C-1,2,3,4-TCDD

200211D2_8

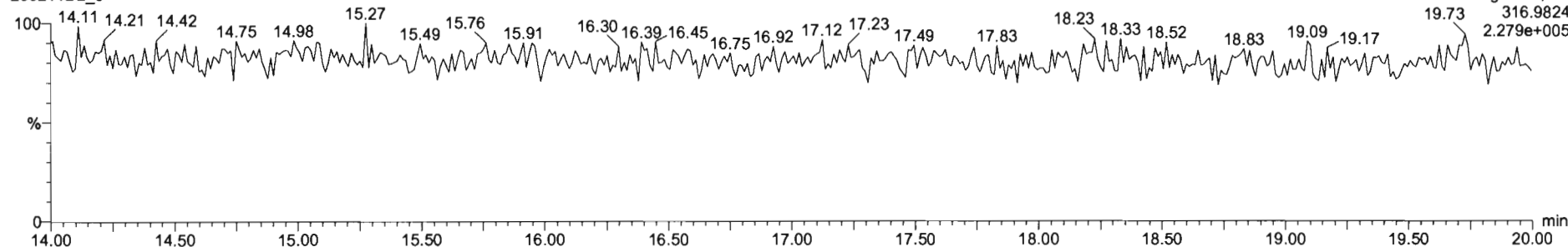


200211D2_8



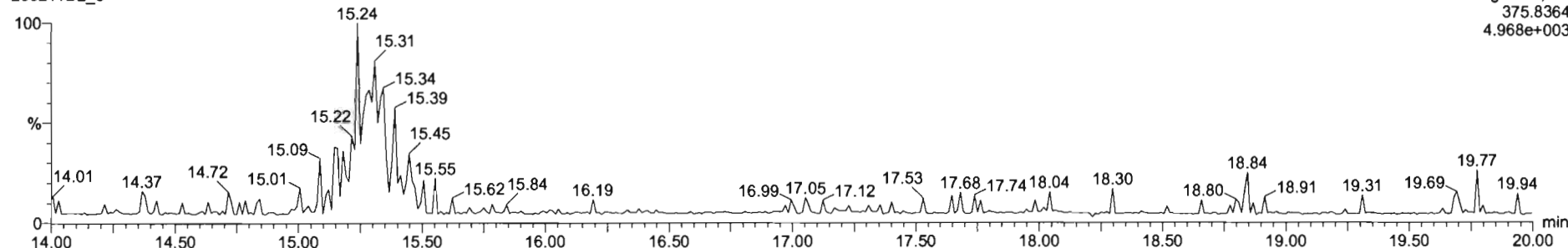
PFK1

200211D2_8

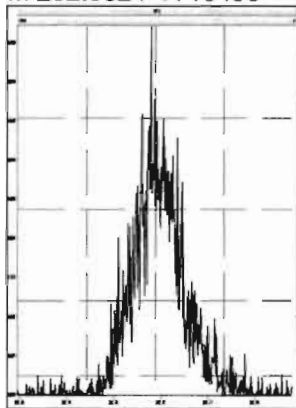


DPE1

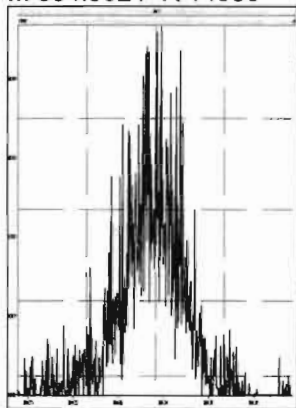
200211D2_8



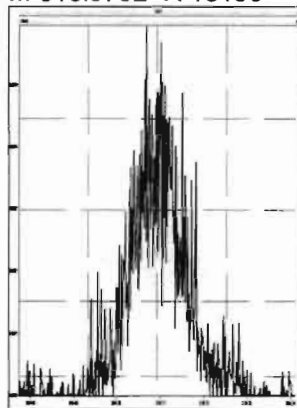
M 292.9824 R 13493



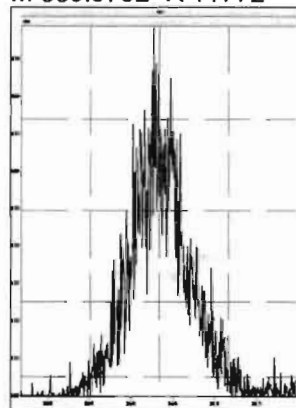
M 304.9824 R 14983



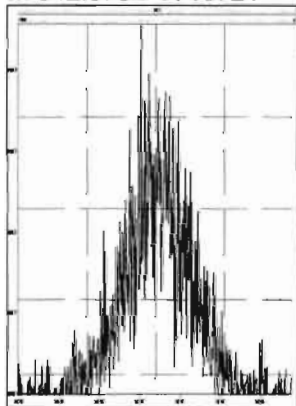
M 318.9792 R 15196



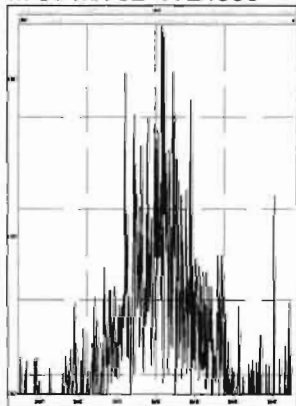
M 330.9792 R 11772



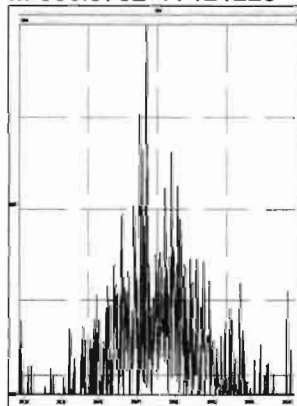
M 342.9792 R 13721



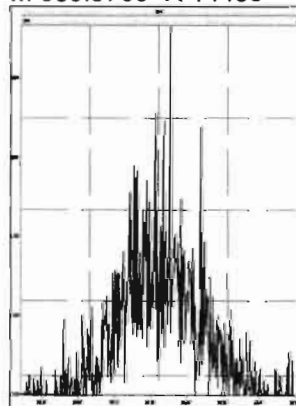
M 354.9792 R 24553



M 366.9792 R 121228



M 380.9760 R 14409



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time

Printed: Wednesday, February 12, 2020 10:52:52 Pacific Standard Time

DB 2/12/20 07:52/2020

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF M...	wt/vol	RT	Conc.	%Rec	DL
1	2,3,7,8-TCDF	1.29e4	0.77	NO	0.982	1.000	17.22	10.800	108	0.183
2	13C-2,3,7,8-TCDF	1.22e5	0.73	NO	1.08	1.000	17.20	92.025	92.0	0.305
3	13C-1,2,3,4-TCDF	1.22e5	0.72	NO	1.00	1.000	15.17	100.00	100	0.330
4	13C-1,2,3,4-TCDD	8.99e4	0.76	NO	1030	1.000	15.78	87.563	87.6	0.304

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

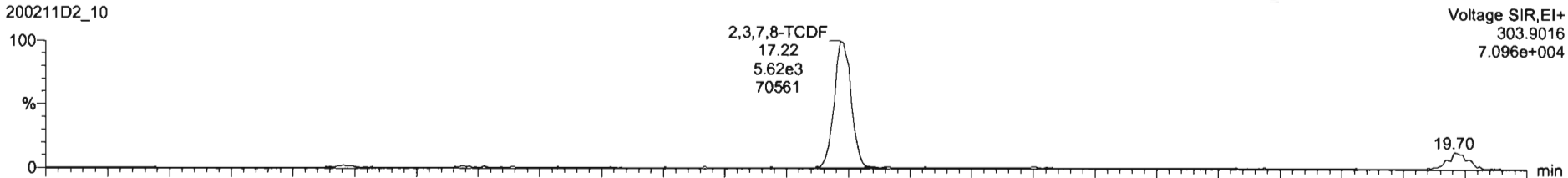
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 11 Feb 2020 09:33:24
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 10:17:56

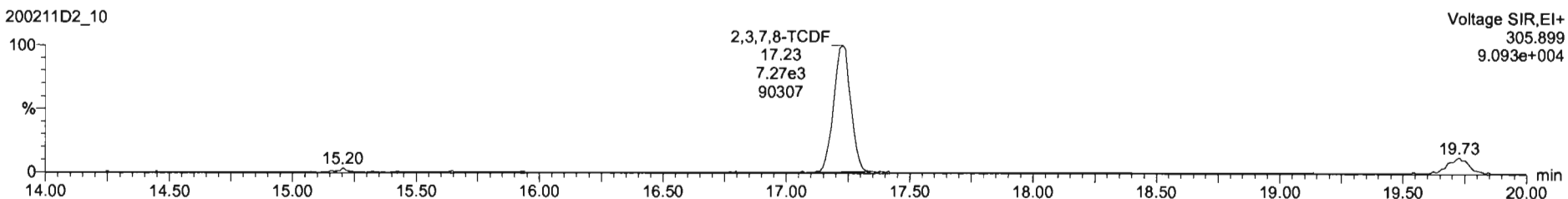
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

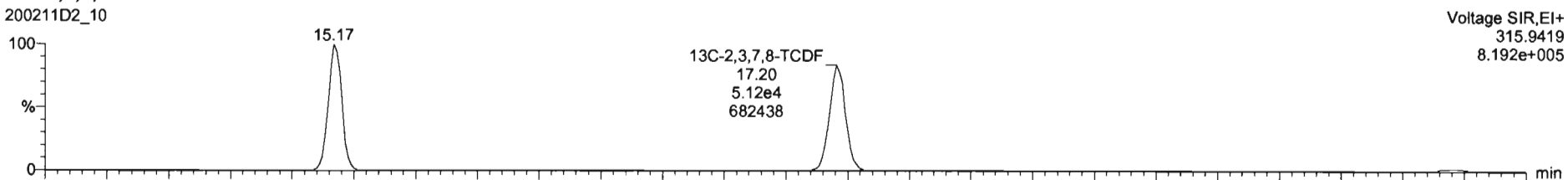


200211D2_10

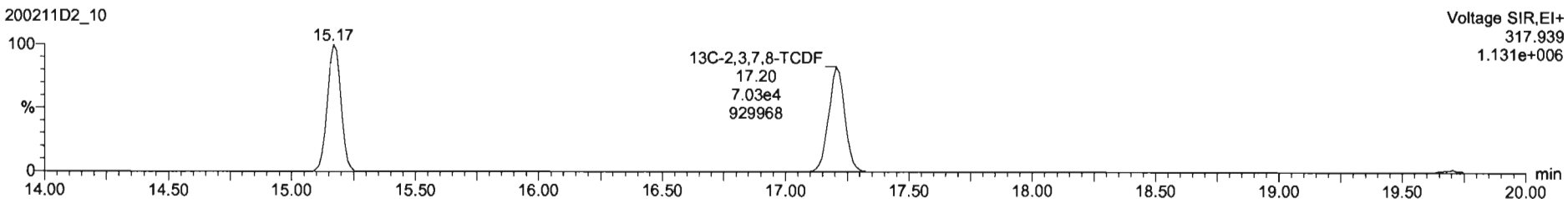


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



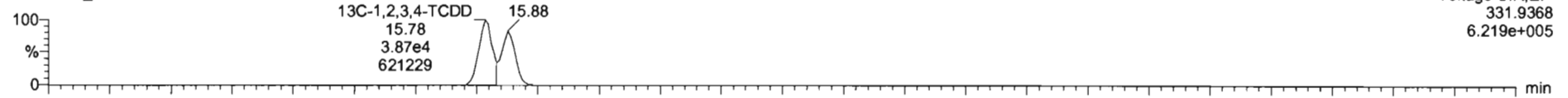
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Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
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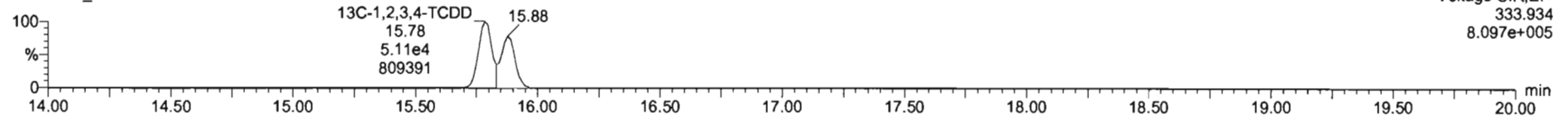
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

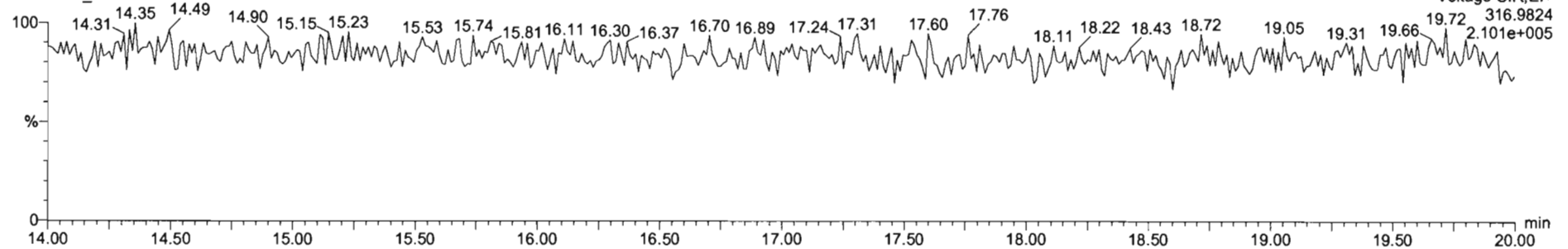


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

