

May 26, 2020

Vista Work Order No. 2000950

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 April 28, 2020 under your Project Name 'Gasco PDI'.

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

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

Sincerely,

Martha Maier
Laboratory Director



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

Vista Work Order No. 2000950

Case Narrative

Sample Condition on Receipt:

Thirteen 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 samples were received and stored securely in accordance with Vista standard operating procedures and EPA methodology. The EPA Method 1668 analyses of samples "PDI-156SC-A-00-01-200423" and "PDI-158SC-A-00-01-200423" were assigned to Vista Work Order Nos. 2000975 and 2000960, respectively.

Analytical Notes:

EPA Method 1613B

These samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 1613B using a ZB-5MS GC column.

Holding Times

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

Quality Control

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

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above 1/2 the quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

As requested, a duplicate was performed on sample "PDI-156SC-A-01-02-200423". The RPDs were outside of the acceptance criteria for 1,2,3,7,8-PeCDF and 1,2,3,6,7,8-HxCDF.

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

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Sample Inventory Report

Vista Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2000950-01	PDI-1156SC-A-02-03-200423	23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-02	PDI-156SC-A-00-01-200423	23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-03	PDI-156SC-A-01-02-200423	DUP23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL Amber Glass, 120 mL
2000950-04	PDI-156SC-A-02-03-200423	23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-05	PDI-156SC-A-03-04-200423	23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-06	PDI-156SC-A-04-05-200423	23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-07	PDI-156SC-A-05-06-200423	23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-08	PDI-156SC-A-06-07-200423	23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-09	PDI-156SC-A-07-08-200423	23-Apr-20 08:40	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-10	PDI-158SC-A-00-01-200423	23-Apr-20 12:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-11	PDI-158SC-A-01-02-200423	23-Apr-20 12:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-12	PDI-158SC-A-02-03-200423	23-Apr-20 12:50	28-Apr-20 09:04	Amber Glass, 120 mL
2000950-13	PDI-158SC-A-03-04-200423	23-Apr-20 12:50	28-Apr-20 09:04	Amber Glass, 120 mL

ANALYTICAL RESULTS

Sample ID: Method Blank					EPA Method 1613B			
Matrix: Solid Sample Size: 10.0 g		QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44		Lab Sample: B0E0015-BLK1 Date Analyzed: 06-May-20 10:17 Column: ZB-5MS				
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0565			IS 13C-2,3,7,8-TCDD	80.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0467			13C-1,2,3,7,8-PeCDD	92.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0574			13C-1,2,3,4,7,8-HxCDD	93.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0557			13C-1,2,3,6,7,8-HxCDD	97.3	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0732			13C-1,2,3,7,8,9-HxCDD	88.8	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND	0.109			13C-1,2,3,4,6,7,8-HpCDD	79.7	23 - 140	
OCDD	0.219			J	13C-OCDD	55.6	17 - 157	
2,3,7,8-TCDF	ND	0.0345			13C-2,3,7,8-TCDF	73.9	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0456			13C-1,2,3,7,8-PeCDF	89.4	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0404			13C-2,3,4,7,8-PeCDF	93.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0354			13C-1,2,3,4,7,8-HxCDF	101	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0326			13C-1,2,3,6,7,8-HxCDF	110	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0404			13C-2,3,4,6,7,8-HxCDF	99.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0862			13C-1,2,3,7,8,9-HxCDF	69.2	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND	0.0697			13C-1,2,3,4,6,7,8-HpCDF	88.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.116			13C-1,2,3,4,7,8,9-HpCDF	67.0	26 - 138	
OCDF	ND	0.152			13C-OCDF	47.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	79.7	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.000066			
TOTALS								
Total TCDD	ND	0.0565						
Total PeCDD	ND	0.0467						
Total HxCDD	ND	0.0732						
Total HpCDD	ND	0.109						
Total TCDF	ND	0.0345						
Total PeCDF	ND	0.0456						
Total HxCDF	ND	0.0862						
Total HpCDF	ND	0.116						

DL - Sample specific estimated detection limit

EMPC - Estimated maximum possible concentration

LCL-UCL- Lower control limit - upper control limit

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

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

Sample ID: OPR					EPA Method 1613B		
Matrix: Solid	QC Batch: B0E0015	Lab Sample: B0E0015-BS1					
Sample Size: 10.0 g	Date Extracted: 02-May-2020 10:44	Date Analyzed: 06-May-20 08:43	Column: ZB-5MS				
Analyte	Amt Found (pg/g)	Spike Amt	%R	Limits	Labeled Standard	%R	LCL-UCL
2,3,7,8-TCDD	16.3	20.0	81.7	67 - 158	IS 13C-2,3,7,8-TCDD	102	20 - 175
1,2,3,7,8-PeCDD	82.4	100	82.4	70 - 142	13C-1,2,3,7,8-PeCDD	106	21 - 227
1,2,3,4,7,8-HxCDD	87.1	100	87.1	70 - 164	13C-1,2,3,4,7,8-HxCDD	102	21 - 193
1,2,3,6,7,8-HxCDD	89.4	100	89.4	76 - 134	13C-1,2,3,6,7,8-HxCDD	101	25 - 163
1,2,3,7,8,9-HxCDD	89.1	100	89.1	64 - 162	13C-1,2,3,7,8,9-HxCDD	101	21 - 193
1,2,3,4,6,7,8-HpCDD	89.6	100	89.6	70 - 140	13C-1,2,3,4,6,7,8-HpCDD	94.0	26 - 166
OCDD	179	200	89.5	78 - 144	13C-OCDD	77.4	13 - 199
2,3,7,8-TCDF	17.6	20.0	87.9	75 - 158	13C-2,3,7,8-TCDF	90.7	22 - 152
1,2,3,7,8-PeCDF	87.4	100	87.4	80 - 134	13C-1,2,3,7,8-PeCDF	103	21 - 192
2,3,4,7,8-PeCDF	85.2	100	85.2	68 - 160	13C-2,3,4,7,8-PeCDF	101	13 - 328
1,2,3,4,7,8-HxCDF	95.8	100	95.8	72 - 134	13C-1,2,3,4,7,8-HxCDF	104	19 - 202
1,2,3,6,7,8-HxCDF	94.7	100	94.7	84 - 130	13C-1,2,3,6,7,8-HxCDF	110	21 - 159
2,3,4,6,7,8-HxCDF	97.4	100	97.4	70 - 156	13C-2,3,4,6,7,8-HxCDF	103	22 - 176
1,2,3,7,8,9-HxCDF	94.9	100	94.9	78 - 130	13C-1,2,3,7,8,9-HxCDF	94.0	17 - 205
1,2,3,4,6,7,8-HpCDF	97.2	100	97.2	82 - 122	13C-1,2,3,4,6,7,8-HpCDF	99.4	21 - 158
1,2,3,4,7,8,9-HpCDF	96.9	100	96.9	78 - 138	13C-1,2,3,4,7,8,9-HpCDF	88.0	20 - 186
OCDF	188	200	94.2	63 - 170	13C-OCDF	74.9	13 - 199
					CRS 37Cl-2,3,7,8-TCDD	97.5	31 - 191

LCL-UCL - Lower control limit - upper control limit

Sample ID: PDI-1156SC-A-02-03-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-01 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.7 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 79.1	Date Analyzed : 16-May-20 16:54 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0500			IS 13C-2,3,7,8-TCDD	70.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0622			13C-1,2,3,7,8-PeCDD	91.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0484			13C-1,2,3,4,7,8-HxCDD	90.0	32 - 141	
1,2,3,6,7,8-HxCDD	0.178			J	13C-1,2,3,6,7,8-HxCDD	84.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.139		13C-1,2,3,7,8,9-HxCDD	96.6	32 - 141	
1,2,3,4,6,7,8-HpCDD	5.15				13C-1,2,3,4,6,7,8-HpCDD	103	23 - 140	
OCDD	52.4			B	13C-OCDD	102	17 - 157	
2,3,7,8-TCDF	0.217			J	13C-2,3,7,8-TCDF	68.0	24 - 169	
1,2,3,7,8-PeCDF	ND		0.124		13C-1,2,3,7,8-PeCDF	87.8	24 - 185	
2,3,4,7,8-PeCDF	0.0846			J	13C-2,3,4,7,8-PeCDF	85.8	21 - 178	
1,2,3,4,7,8-HxCDF	0.322			J	13C-1,2,3,4,7,8-HxCDF	83.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0710		13C-1,2,3,6,7,8-HxCDF	82.8	26 - 123	
2,3,4,6,7,8-HxCDF	0.0543			J	13C-2,3,4,6,7,8-HxCDF	89.3	28 - 136	
1,2,3,7,8,9-HxCDF	0.0661			J	13C-1,2,3,7,8,9-HxCDF	89.6	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.867			J	13C-1,2,3,4,6,7,8-HpCDF	95.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.0710		13C-1,2,3,4,7,8,9-HpCDF	106	26 - 138	
OCDF	2.89			J	13C-OCDF	104	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	72.7	35 - 197	

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

TEQMinWHO2005Dioxin 0.186

TOTALS		
Total TCDD	ND	0.197
Total PeCDD	0.128	0.178
Total HxCDD	2.09	2.23
Total HpCDD	14.4	
Total TCDF	0.427	0.517
Total PeCDF	0.518	0.642
Total HxCDF	1.35	1.45
Total HpCDF	2.66	2.73

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-156SC-A-00-01-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-02 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.1 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 90.3	Date Analyzed: 16-May-20 17:40 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0623			IS 13C-2,3,7,8-TCDD	57.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0744			13C-1,2,3,7,8-PeCDD	77.5	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0692			13C-1,2,3,4,7,8-HxCDD	78.7	32 - 141	
1,2,3,6,7,8-HxCDD	0.139			J	13C-1,2,3,6,7,8-HxCDD	74.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.116		13C-1,2,3,7,8,9-HxCDD	89.4	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.46				13C-1,2,3,4,6,7,8-HpCDD	92.7	23 - 140	
OCDD	34.5			B	13C-OCDD	87.4	17 - 157	
2,3,7,8-TCDF	0.0968			J	13C-2,3,7,8-TCDF	53.8	24 - 169	
1,2,3,7,8-PeCDF	0.0717			J	13C-1,2,3,7,8-PeCDF	73.7	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0410		13C-2,3,4,7,8-PeCDF	71.4	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.172		13C-1,2,3,4,7,8-HxCDF	75.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.0708			J	13C-1,2,3,6,7,8-HxCDF	74.8	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.0280		13C-2,3,4,6,7,8-HxCDF	81.6	28 - 136	
1,2,3,7,8,9-HxCDF	0.0850			J	13C-1,2,3,7,8,9-HxCDF	80.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.474			J	13C-1,2,3,4,6,7,8-HpCDF	87.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.0600		13C-1,2,3,4,7,8,9-HpCDF	91.3	26 - 138	
OCDF	1.14			J	13C-OCDF	89.9	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	58.9	35 - 197	

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

TEQMinWHO2005Dioxin 0.0913

TOTALS								
Total TCDD	ND	0.0623						
Total PeCDD	ND		0.0690					
Total HxCDD	1.55		1.67					
Total HpCDD	7.94							
Total TCDF	0.0968		0.192					
Total PeCDF	0.333		0.429					
Total HxCDF	0.685		0.885					
Total HpCDF	1.39		1.45					

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-156SC-A-01-02-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-03 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.3 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 88.6	Date Analyzed : 16-May-20 18:26 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0408			IS 13C-2,3,7,8-TCDD	79.8	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0290		13C-1,2,3,7,8-PeCDD	99.9	25 - 181	
1,2,3,4,7,8-HxCDD	0.107			J	13C-1,2,3,4,7,8-HxCDD	92.4	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0429			13C-1,2,3,6,7,8-HxCDD	89.1	28 - 130	
1,2,3,7,8,9-HxCDD	0.0717			J	13C-1,2,3,7,8,9-HxCDD	98.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.25			J	13C-1,2,3,4,6,7,8-HpCDD	96.8	23 - 140	
OCDD	24.3			B	13C-OCDD	88.1	17 - 157	
2,3,7,8-TCDF	ND		0.0370		13C-2,3,7,8-TCDF	77.5	24 - 169	
1,2,3,7,8-PeCDF	0.0308			J	13C-1,2,3,7,8-PeCDF	94.5	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0238			13C-2,3,4,7,8-PeCDF	94.7	21 - 178	
1,2,3,4,7,8-HxCDF	0.125			J	13C-1,2,3,4,7,8-HxCDF	90.9	26 - 152	
1,2,3,6,7,8-HxCDF	0.0469			J	13C-1,2,3,6,7,8-HxCDF	89.3	26 - 123	
2,3,4,6,7,8-HxCDF	0.0247			J	13C-2,3,4,6,7,8-HxCDF	92.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0430		13C-1,2,3,7,8,9-HxCDF	91.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	ND		0.259		13C-1,2,3,4,6,7,8-HpCDF	91.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.0420			J	13C-1,2,3,4,7,8,9-HpCDF	100	26 - 138	
OCDF	0.763			J	13C-OCDF	89.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	85.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.0689

TOTALS			
Total TCDD	0.106		
Total PeCDD	ND	0.124	
Total HxCDD	1.33	1.33	
Total HpCDD	7.34		
Total TCDF	0.0485	0.128	
Total PeCDF	0.0308	0.196	
Total HxCDF	0.375	0.598	
Total HpCDF	0.0420	0.825	

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-156SC-A-01-02-200423		QC Batch: B0E0015		Lab Sample: B0E0015-DUP1				
Source LabNumber: 2000950-03		Date Extracted: 02-May-2020 10:44		Date Analyzed: 16-May-20 19:12 Column: ZB-5MS				
Matrix: Solid								
Sample Size: 11.4 g								
Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0640			IS 13C-2,3,7,8-TCDD	68.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0470			13C-1,2,3,7,8-PeCDD	91.3	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0253			13C-1,2,3,4,7,8-HxCDD	87.5	32 - 141	
1,2,3,6,7,8-HxCDD	0.0921			J	13C-1,2,3,6,7,8-HxCDD	85.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.0899			J	13C-1,2,3,7,8,9-HxCDD	99.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.13			J	13C-1,2,3,4,6,7,8-HpCDD	101	23 - 140	
OCDD	21.7			B	13C-OCDD	96.3	17 - 157	
2,3,7,8-TCDF	ND		0.0551		13C-2,3,7,8-TCDF	64.6	24 - 169	
1,2,3,7,8-PeCDF	0.0528			J	13C-1,2,3,7,8-PeCDF	83.9	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0361			13C-2,3,4,7,8-PeCDF	82.6	21 - 178	
1,2,3,4,7,8-HxCDF	ND		0.0694		13C-1,2,3,4,7,8-HxCDF	84.7	26 - 152	
1,2,3,6,7,8-HxCDF	0.0308			J	13C-1,2,3,6,7,8-HxCDF	84.6	26 - 123	
2,3,4,6,7,8-HxCDF	0.0211			J	13C-2,3,4,6,7,8-HxCDF	91.2	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0489		13C-1,2,3,7,8,9-HxCDF	90.0	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.262			J	13C-1,2,3,4,6,7,8-HpCDF	95.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0287			13C-1,2,3,4,7,8,9-HpCDF	99.6	26 - 138	
OCDF	0.769			J	13C-OCDF	96.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	68.8	35 - 197	
					Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)			
					TEQMinWHO2005Dioxin 0.0556			
TOTALS								
Total TCDD	ND		0.0818					
Total PeCDD	ND		0.0743					
Total HxCDD	1.45							
Total HpCDD	7.31							
Total TCDF	ND		0.0892					
Total PeCDF	0.106		0.200					
Total HxCDF	0.221		0.469					
Total HpCDF	0.814							

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-156SC-A-01-02-200423					Duplicate Lab Sample: B0E0015-DUP1				
Source LabNumber: 2000950-03									
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	68.4	79.8	25 - 164	
1,2,3,7,8-PeCDD	ND	ND	NA	25	13C-1,2,3,7,8-PeCDD	91.3	99.9	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.107	#	25	13C-1,2,3,4,7,8-HxCDD	87.5	92.4	32 - 141	
1,2,3,6,7,8-HxCDD	0.0921	ND	#	25	13C-1,2,3,6,7,8-HxCDD	85.6	89.1	28 - 130	
1,2,3,7,8,9-HxCDD	0.0899	0.0717	22.5	25	13C-1,2,3,7,8,9-HxCDD	99.3	98.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	2.13	2.25	5.39	25	13C-1,2,3,4,6,7,8-HpCDD	101	96.8	23 - 140	
OCDD	21.7	24.3	11.0	25	13C-OCDD	96.3	88.1	17 - 157	
2,3,7,8-TCDF	ND	ND	NA	25	13C-2,3,7,8-TCDF	64.6	77.5	24 - 169	
1,2,3,7,8-PeCDF	0.0528	0.0308	52.6	25	13C-1,2,3,7,8-PeCDF	83.9	94.5	24 - 185	
2,3,4,7,8-PeCDF	ND	ND	NA	25	13C-2,3,4,7,8-PeCDF	82.6	94.7	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.125	#	25	13C-1,2,3,4,7,8-HxCDF	84.7	90.9	26 - 152	
1,2,3,6,7,8-HxCDF	0.0308	0.0469	41.4	25	13C-1,2,3,6,7,8-HxCDF	84.6	89.3	26 - 123	
2,3,4,6,7,8-HxCDF	0.0211	0.0247	15.7	25	13C-2,3,4,6,7,8-HxCDF	91.2	92.6	28 - 136	
1,2,3,7,8,9-HxCDF	ND	ND	NA	25	13C-1,2,3,7,8,9-HxCDF	90.0	91.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.262	ND	#	25	13C-1,2,3,4,6,7,8-HpCDF	95.2	91.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0420	#	25	13C-1,2,3,4,7,8,9-HpCDF	99.6	100	26 - 138	
OCDF	0.769	0.763	0.880	25	13C-OCDF	96.3	89.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	68.8	85.4	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-156SC-A-02-03-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-04 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.3 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 81.7	Date Analyzed: 16-May-20 19:58 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0708			IS 13C-2,3,7,8-TCDD	49.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0629			13C-1,2,3,7,8-PeCDD	64.7	25 - 181	
1,2,3,4,7,8-HxCDD	0.0563			J	13C-1,2,3,4,7,8-HxCDD	66.1	32 - 141	
1,2,3,6,7,8-HxCDD	0.208			J	13C-1,2,3,6,7,8-HxCDD	64.0	28 - 130	
1,2,3,7,8,9-HxCDD	0.112			J	13C-1,2,3,7,8,9-HxCDD	78.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	4.57				13C-1,2,3,4,6,7,8-HpCDD	85.7	23 - 140	
OCDD	43.8			B	13C-OCDD	82.5	17 - 157	
2,3,7,8-TCDF	0.357			J	13C-2,3,7,8-TCDF	47.1	24 - 169	
1,2,3,7,8-PeCDF	ND		0.365		13C-1,2,3,7,8-PeCDF	61.3	24 - 185	
2,3,4,7,8-PeCDF	0.137			J	13C-2,3,4,7,8-PeCDF	59.6	21 - 178	
1,2,3,4,7,8-HxCDF	0.596			J	13C-1,2,3,4,7,8-HxCDF	63.7	26 - 152	
1,2,3,6,7,8-HxCDF	0.134			J	13C-1,2,3,6,7,8-HxCDF	62.5	26 - 123	
2,3,4,6,7,8-HxCDF	0.0696			J	13C-2,3,4,6,7,8-HxCDF	69.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.0986			J	13C-1,2,3,7,8,9-HxCDF	66.5	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.03			J	13C-1,2,3,4,6,7,8-HpCDF	76.1	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.132			J	13C-1,2,3,4,7,8,9-HpCDF	77.5	26 - 138	
OCDF	3.22			J	13C-OCDF	81.0	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	50.8	35 - 197	

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

TEQMinWHO2005Dioxin 0.276

TOTALS		
Total TCDD	0.169	
Total PeCDD	ND	0.0925
Total HxCDD	1.79	1.89
Total HpCDD	10.1	
Total TCDF	0.630	0.735
Total PeCDF	0.702	1.14
Total HxCDF	1.33	1.96
Total HpCDF	3.73	

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-156SC-A-03-04-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-05 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.0 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 83.6	Date Analyzed: 16-May-20 20:45 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0593			IS 13C-2,3,7,8-TCDD	88.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0687			13C-1,2,3,7,8-PeCDD	108	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0677			13C-1,2,3,4,7,8-HxCDD	99.1	32 - 141	
1,2,3,6,7,8-HxCDD	0.345			J	13C-1,2,3,6,7,8-HxCDD	91.8	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.142		13C-1,2,3,7,8,9-HxCDD	101	32 - 141	
1,2,3,4,6,7,8-HpCDD	8.74				13C-1,2,3,4,6,7,8-HpCDD	97.5	23 - 140	
OCDD	76.7			B	13C-OCDD	89.6	17 - 157	
2,3,7,8-TCDF	0.204			J	13C-2,3,7,8-TCDF	83.8	24 - 169	
1,2,3,7,8-PeCDF	0.143			J	13C-1,2,3,7,8-PeCDF	105	24 - 185	
2,3,4,7,8-PeCDF	0.118			J	13C-2,3,4,7,8-PeCDF	104	21 - 178	
1,2,3,4,7,8-HxCDF	0.370			J	13C-1,2,3,4,7,8-HxCDF	98.6	26 - 152	
1,2,3,6,7,8-HxCDF	0.110			J	13C-1,2,3,6,7,8-HxCDF	96.7	26 - 123	
2,3,4,6,7,8-HxCDF	0.110			J	13C-2,3,4,6,7,8-HxCDF	97.5	28 - 136	
1,2,3,7,8,9-HxCDF	0.0969			J	13C-1,2,3,7,8,9-HxCDF	101	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.74			J	13C-1,2,3,4,6,7,8-HpCDF	96.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND		0.124		13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138	
OCDF	2.77			J	13C-OCDF	91.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	89.3	35 - 197	

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

TEQMinWHO2005Dioxin 0.292

TOTALS		
Total TCDD	0.0856	0.254
Total PeCDD	ND	0.231
Total HxCDD	2.58	2.79
Total HpCDD	17.9	
Total TCDF	0.640	0.743
Total PeCDF	1.21	1.25
Total HxCDF	4.24	4.30
Total HpCDF	6.50	6.62

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-156SC-A-04-05-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-06 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.0 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 90.9	Date Analyzed: 18-May-20 17:53 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0401			IS 13C-2,3,7,8-TCDD	92.4	25 - 164	
1,2,3,7,8-PeCDD	ND		0.0430		13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	0.145			J	13C-1,2,3,4,7,8-HxCDD	97.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0603			13C-1,2,3,6,7,8-HxCDD	92.6	28 - 130	
1,2,3,7,8,9-HxCDD	0.0816			J	13C-1,2,3,7,8,9-HxCDD	98.9	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.27				13C-1,2,3,4,6,7,8-HpCDD	93.2	23 - 140	
OCDD	30.4			B	13C-OCDD	84.0	17 - 157	
2,3,7,8-TCDF	0.0808			J	13C-2,3,7,8-TCDF	89.6	24 - 169	
1,2,3,7,8-PeCDF	0.0911			J	13C-1,2,3,7,8-PeCDF	108	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0430		13C-2,3,4,7,8-PeCDF	108	21 - 178	
1,2,3,4,7,8-HxCDF	0.122			J	13C-1,2,3,4,7,8-HxCDF	94.2	26 - 152	
1,2,3,6,7,8-HxCDF	0.0551			J	13C-1,2,3,6,7,8-HxCDF	97.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND		0.0430		13C-2,3,4,6,7,8-HxCDF	94.8	28 - 136	
1,2,3,7,8,9-HxCDF	0.0580			J	13C-1,2,3,7,8,9-HxCDF	98.3	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.395			J	13C-1,2,3,4,6,7,8-HpCDF	92.8	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.0773			J	13C-1,2,3,4,7,8,9-HpCDF	101	26 - 138	
OCDF	1.09			J	13C-OCDF	89.2	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	95.5	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.104

TOTALS		
Total TCDD	ND	0.108
Total PeCDD	0.0595	0.176
Total HxCDD	1.77	
Total HpCDD	7.88	
Total TCDF	0.214	
Total PeCDF	0.248	0.398
Total HxCDF	0.719	0.762
Total HpCDF	1.27	

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-156SC-A-05-06-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-07 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.0 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 90.9	Date Analyzed: 18-May-20 18:40 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0565			IS 13C-2,3,7,8-TCDD	65.1	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0525			13C-1,2,3,7,8-PeCDD	85.2	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0582			13C-1,2,3,4,7,8-HxCDD	84.3	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0569			13C-1,2,3,6,7,8-HxCDD	89.2	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0623			13C-1,2,3,7,8,9-HxCDD	101	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.590			J	13C-1,2,3,4,6,7,8-HpCDD	105	23 - 140	
OCDD	4.85			J, B	13C-OCDD	101	17 - 157	
2,3,7,8-TCDF	ND	0.0320			13C-2,3,7,8-TCDF	61.8	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0267			13C-1,2,3,7,8-PeCDF	80.1	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0140		13C-2,3,4,7,8-PeCDF	78.9	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0359			13C-1,2,3,4,7,8-HxCDF	80.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0334			13C-1,2,3,6,7,8-HxCDF	85.1	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0344			13C-2,3,4,6,7,8-HxCDF	89.9	28 - 136	
1,2,3,7,8,9-HxCDF	0.0580			J	13C-1,2,3,7,8,9-HxCDF	87.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.0791			J	13C-1,2,3,4,6,7,8-HpCDF	95.2	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0491			13C-1,2,3,4,7,8,9-HpCDF	103	26 - 138	
OCDF	ND		0.189		13C-OCDF	103	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	66.8	35 - 197	

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

TEQMinWHO2005Dioxin 0.0139

TOTALS				
Total TCDD	0.0791			
Total PeCDD	ND	0.0525		
Total HxCDD	0.248		0.392	
Total HpCDD	1.38			
Total TCDF	ND	0.0320		
Total PeCDF	0.0338		0.0590	
Total HxCDF	0.162			
Total HpCDF	0.0791		0.202	

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-156SC-A-06-07-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-08 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.7 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 85.9	Date Analyzed: 18-May-20 19:26 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0420			IS 13C-2,3,7,8-TCDD	85.5	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0471			13C-1,2,3,7,8-PeCDD	109	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0672			13C-1,2,3,4,7,8-HxCDD	95.9	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0680			13C-1,2,3,6,7,8-HxCDD	99.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.123			J	13C-1,2,3,7,8,9-HxCDD	99.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.57			J	13C-1,2,3,4,6,7,8-HpCDD	101	23 - 140	
OCDD	10.5			B	13C-OCDD	99.9	17 - 157	
2,3,7,8-TCDF	ND	0.0219			13C-2,3,7,8-TCDF	82.4	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0168			13C-1,2,3,7,8-PeCDF	106	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0157			13C-2,3,4,7,8-PeCDF	104	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0285			13C-1,2,3,4,7,8-HxCDF	94.3	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0269			13C-1,2,3,6,7,8-HxCDF	95.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0294			13C-2,3,4,6,7,8-HxCDF	96.0	28 - 136	
1,2,3,7,8,9-HxCDF	0.0440			J	13C-1,2,3,7,8,9-HxCDF	102	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.0491			J	13C-1,2,3,4,6,7,8-HpCDF	97.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0416			13C-1,2,3,4,7,8,9-HpCDF	110	26 - 138	
OCDF	ND		0.138		13C-OCDF	98.8	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.0	35 - 197	

Toxic Equivalent Quotient (TEQ) Data (pg/g dry wt)
 TEQMinWHO2005Dioxin 0.0360

TOTALS				
Total TCDD	0.103			
Total PeCDD	ND		0.145	
Total HxCDD	1.16		1.23	
Total HpCDD	3.76			
Total TCDF	ND	0.0219		
Total PeCDF	ND	0.0168		
Total HxCDF	0.0701			
Total HpCDF	0.113			

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-156SC-A-07-08-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-09 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.8 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 8:40	% Solids: 78.4	Date Analyzed : 18-May-20 20:12 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0531			IS 13C-2,3,7,8-TCDD	64.0	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0548			13C-1,2,3,7,8-PeCDD	83.1	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0753			13C-1,2,3,4,7,8-HxCDD	77.7	32 - 141	
1,2,3,6,7,8-HxCDD	0.113			J	13C-1,2,3,6,7,8-HxCDD	78.9	28 - 130	
1,2,3,7,8,9-HxCDD	0.0974			J	13C-1,2,3,7,8,9-HxCDD	101	32 - 141	
1,2,3,4,6,7,8-HpCDD	1.57			J	13C-1,2,3,4,6,7,8-HpCDD	94.8	23 - 140	
OCDD	17.3			B	13C-OCDD	93.2	17 - 157	
2,3,7,8-TCDF	ND	0.0324			13C-2,3,7,8-TCDF	57.1	24 - 169	
1,2,3,7,8-PeCDF	ND	0.0221			13C-1,2,3,7,8-PeCDF	76.0	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0214			13C-2,3,4,7,8-PeCDF	72.3	21 - 178	
1,2,3,4,7,8-HxCDF	ND	0.0264			13C-1,2,3,4,7,8-HxCDF	76.2	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0252			13C-1,2,3,6,7,8-HxCDF	77.5	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0267			13C-2,3,4,6,7,8-HxCDF	80.0	28 - 136	
1,2,3,7,8,9-HxCDF	ND		0.0550		13C-1,2,3,7,8,9-HxCDF	83.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.0708			J	13C-1,2,3,4,6,7,8-HpCDF	89.6	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0511			13C-1,2,3,4,7,8,9-HpCDF	93.2	26 - 138	
OCDF	0.166			J	13C-OCDF	98.4	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	65.1	35 - 197	

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

TEQMinWHO2005Dioxin 0.0427

TOTALS								
Total TCDD	ND	0.0531						
Total PeCDD	ND	0.0548						
Total HxCDD	1.09							
Total HpCDD	4.45							
Total TCDF	ND	0.0324						
Total PeCDF	ND	0.0221						
Total HxCDF	0.0204		0.0750					
Total HpCDF	0.181							

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-158SC-A-00-01-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-10 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.9 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 12:50	% Solids: 84.5	Date Analyzed : 18-May-20 20:58 Column: ZB-5MS 20-May-20 19:25 Column: DB-225

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND		0.0790		IS 13C-2,3,7,8-TCDD	85.6	25 - 164	
1,2,3,7,8-PeCDD	0.0889			J	13C-1,2,3,7,8-PeCDD	111	25 - 181	
1,2,3,4,7,8-HxCDD	0.0771			J	13C-1,2,3,4,7,8-HxCDD	97.6	32 - 141	
1,2,3,6,7,8-HxCDD	0.245			J	13C-1,2,3,6,7,8-HxCDD	96.5	28 - 130	
1,2,3,7,8,9-HxCDD	0.267			J	13C-1,2,3,7,8,9-HxCDD	100	32 - 141	
1,2,3,4,6,7,8-HpCDD	6.64				13C-1,2,3,4,6,7,8-HpCDD	105	23 - 140	
OCDD	114			B	13C-OCDD	104	17 - 157	
2,3,7,8-TCDF	0.820				13C-2,3,7,8-TCDF	81.7	24 - 169	
1,2,3,7,8-PeCDF	0.902			J	13C-1,2,3,7,8-PeCDF	107	24 - 185	
2,3,4,7,8-PeCDF	ND		0.157		13C-2,3,4,7,8-PeCDF	108	21 - 178	
1,2,3,4,7,8-HxCDF	1.78			J	13C-1,2,3,4,7,8-HxCDF	94.0	26 - 152	
1,2,3,6,7,8-HxCDF	0.410			J	13C-1,2,3,6,7,8-HxCDF	95.3	26 - 123	
2,3,4,6,7,8-HxCDF	0.137			J	13C-2,3,4,6,7,8-HxCDF	96.2	28 - 136	
1,2,3,7,8,9-HxCDF	0.184			J	13C-1,2,3,7,8,9-HxCDF	97.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	1.51			J	13C-1,2,3,4,6,7,8-HpCDF	99.0	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.408			J	13C-1,2,3,4,7,8,9-HpCDF	109	26 - 138	
OCDF	3.09			J	13C-OCDF	104	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.1	35 - 197	

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

TEQMinWHO2005Dioxin 0.629

TOTALS		
Total TCDD	0.374	0.550
Total PeCDD	0.500	0.680
Total HxCDD	3.61	3.70
Total HpCDD	16.4	
Total TCDF	3.15	3.23
Total PeCDF	2.54	2.85
Total HxCDF	3.93	
Total HpCDF	4.13	

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-158SC-A-01-02-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-11 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 11.4 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 12:50	% Solids: 89.1	Date Analyzed : 18-May-20 21:44 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0389			IS 13C-2,3,7,8-TCDD	86.6	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0566			13C-1,2,3,7,8-PeCDD	102	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0406			13C-1,2,3,4,7,8-HxCDD	94.9	32 - 141	
1,2,3,6,7,8-HxCDD	0.131			J	13C-1,2,3,6,7,8-HxCDD	92.6	28 - 130	
1,2,3,7,8,9-HxCDD	ND		0.0660		13C-1,2,3,7,8,9-HxCDD	98.1	32 - 141	
1,2,3,4,6,7,8-HpCDD	3.31				13C-1,2,3,4,6,7,8-HpCDD	97.7	23 - 140	
OCDD	33.3			B	13C-OCDD	88.5	17 - 157	
2,3,7,8-TCDF	0.122			J	13C-2,3,7,8-TCDF	84.0	24 - 169	
1,2,3,7,8-PeCDF	ND		0.112		13C-1,2,3,7,8-PeCDF	101	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0330		13C-2,3,4,7,8-PeCDF	101	21 - 178	
1,2,3,4,7,8-HxCDF	0.289			J	13C-1,2,3,4,7,8-HxCDF	92.8	26 - 152	
1,2,3,6,7,8-HxCDF	ND		0.0980		13C-1,2,3,6,7,8-HxCDF	92.8	26 - 123	
2,3,4,6,7,8-HxCDF	0.0637			J	13C-2,3,4,6,7,8-HxCDF	94.7	28 - 136	
1,2,3,7,8,9-HxCDF	0.0627			J	13C-1,2,3,7,8,9-HxCDF	96.1	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.588			J	13C-1,2,3,4,6,7,8-HpCDF	94.4	28 - 143	
1,2,3,4,7,8,9-HpCDF	0.0918			J	13C-1,2,3,4,7,8,9-HpCDF	104	26 - 138	
OCDF	1.76			J	13C-OCDF	92.3	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	88.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.117

TOTALS		
Total TCDD	0.125	0.245
Total PeCDD	0.197	
Total HxCDD	1.76	1.88
Total HpCDD	8.13	
Total TCDF	0.416	
Total PeCDF	0.524	0.705
Total HxCDF	1.20	1.33
Total HpCDF	2.10	

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-158SC-A-02-03-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-12 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.5 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 12:50	% Solids: 81.0	Date Analyzed : 18-May-20 22:30 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0423			IS 13C-2,3,7,8-TCDD	82.4	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0375			13C-1,2,3,7,8-PeCDD	111	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0443			13C-1,2,3,4,7,8-HxCDD	103	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0446			13C-1,2,3,6,7,8-HxCDD	95.4	28 - 130	
1,2,3,7,8,9-HxCDD	0.0446			J	13C-1,2,3,7,8,9-HxCDD	103	32 - 141	
1,2,3,4,6,7,8-HpCDD	0.671			J	13C-1,2,3,4,6,7,8-HpCDD	103	23 - 140	
OCDD	6.41			B	13C-OCDD	96.6	17 - 157	
2,3,7,8-TCDF	ND		0.0480		13C-2,3,7,8-TCDF	72.3	24 - 169	
1,2,3,7,8-PeCDF	ND		0.0760		13C-1,2,3,7,8-PeCDF	106	24 - 185	
2,3,4,7,8-PeCDF	ND	0.0180			13C-2,3,4,7,8-PeCDF	108	21 - 178	
1,2,3,4,7,8-HxCDF	0.115			J	13C-1,2,3,4,7,8-HxCDF	94.7	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0304			13C-1,2,3,6,7,8-HxCDF	97.3	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0311			13C-2,3,4,6,7,8-HxCDF	97.4	28 - 136	
1,2,3,7,8,9-HxCDF	0.0645			J	13C-1,2,3,7,8,9-HxCDF	97.9	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.117			J	13C-1,2,3,4,6,7,8-HpCDF	96.7	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0269			13C-1,2,3,4,7,8,9-HpCDF	109	26 - 138	
OCDF	0.214			J	13C-OCDF	101	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	83.8	35 - 197	

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

TEQMinWHO2005Dioxin 0.0323

TOTALS		
Total TCDD	0.0524	0.180
Total PeCDD	0.0797	0.0800
Total HxCDD	0.800	
Total HpCDD	1.97	
Total TCDF	ND	0.0480
Total PeCDF	ND	0.0760
Total HxCDF	0.216	0.269
Total HpCDF	0.231	

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-158SC-A-03-04-200423 **EPA Method 1613B**

Client Data	Sample Data	Laboratory Data
Name: Anchor QEA, LLC	Matrix: Sediment	Lab Sample: 2000950-13 Date Received: 28-Apr-2020 9:04
Project: Gasco PDI	Sample Size: 12.1 g	QC Batch: B0E0015 Date Extracted: 02-May-2020 10:44
Date Collected: 23-Apr-2020 12:50	% Solids: 83.7	Date Analyzed : 18-May-20 23:17 Column: ZB-5MS

Analyte	Conc. (pg/g)	DL	EMPC	Qualifiers	Labeled Standard	%R	LCL-UCL	Qualifiers
2,3,7,8-TCDD	ND	0.0442			IS 13C-2,3,7,8-TCDD	72.9	25 - 164	
1,2,3,7,8-PeCDD	ND	0.0580			13C-1,2,3,7,8-PeCDD	95.4	25 - 181	
1,2,3,4,7,8-HxCDD	ND	0.0490			13C-1,2,3,4,7,8-HxCDD	91.1	32 - 141	
1,2,3,6,7,8-HxCDD	ND	0.0501			13C-1,2,3,6,7,8-HxCDD	84.0	28 - 130	
1,2,3,7,8,9-HxCDD	ND	0.0529			13C-1,2,3,7,8,9-HxCDD	94.3	32 - 141	
1,2,3,4,6,7,8-HpCDD	ND		0.617		13C-1,2,3,4,6,7,8-HpCDD	98.0	23 - 140	
OCDD	8.04			B	13C-OCDD	92.6	17 - 157	
2,3,7,8-TCDF	ND		0.0424		13C-2,3,7,8-TCDF	67.4	24 - 169	
1,2,3,7,8-PeCDF	0.0738			J	13C-1,2,3,7,8-PeCDF	90.2	24 - 185	
2,3,4,7,8-PeCDF	ND		0.0353		13C-2,3,4,7,8-PeCDF	90.1	21 - 178	
1,2,3,4,7,8-HxCDF	0.127			J	13C-1,2,3,4,7,8-HxCDF	85.5	26 - 152	
1,2,3,6,7,8-HxCDF	ND	0.0352			13C-1,2,3,6,7,8-HxCDF	84.9	26 - 123	
2,3,4,6,7,8-HxCDF	ND	0.0362			13C-2,3,4,6,7,8-HxCDF	88.4	28 - 136	
1,2,3,7,8,9-HxCDF	ND	0.0530			13C-1,2,3,7,8,9-HxCDF	88.4	29 - 147	
1,2,3,4,6,7,8-HpCDF	0.136			J	13C-1,2,3,4,6,7,8-HpCDF	91.3	28 - 143	
1,2,3,4,7,8,9-HpCDF	ND	0.0420			13C-1,2,3,4,7,8,9-HpCDF	100	26 - 138	
OCDF	ND		0.288		13C-OCDF	96.1	17 - 157	
					CRS 37Cl-2,3,7,8-TCDD	74.4	35 - 197	

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

TEQMinWHO2005Dioxin 0.0187

TOTALS			
Total TCDD	0.122		
Total PeCDD	0.0666		
Total HxCDD	0.730		
Total HpCDD	1.39	2.01	
Total TCDF	ND	0.0424	
Total PeCDF	0.0738	0.198	
Total HxCDF	0.173	0.214	
Total HpCDF	0.136	0.297	

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

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

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection limit
E	The associated compound concentration exceeded the calibration range of the instrument
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
TEQ	Toxic Equivalency
U	Not Detected (specific projects only)
*	See Cover Letter

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

Vista Analytical Laboratory Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	19-013-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025:2005	3091.01
Florida Department of Health	E87777-23
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2018017
Massachusetts Department of Environmental Protection	N/A
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	1521520
New Hampshire Environmental Accreditation Program	207718-B
New Jersey Department of Environmental Protection	190001
New York Department of Health	11411
Oregon Laboratory Accreditation Program	4042-010
Pennsylvania Department of Environmental Protection	016
Texas Commission on Environmental Quality	T104704189-19-10
Vermont Department of Health	VT-4042
Virginia Department of General Services	10272
Washington Department of Ecology	C584-19
Wisconsin Department of Natural Resources	998036160

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

NELAP Accredited Test Methods

MATRIX: Air	
Description of Test	Method
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA 23
Determination of Polychlorinated p-Dioxins & Polychlorinated Dibenzofurans	EPA TO-9A

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

MATRIX: Drinking Water	
Description of Test	Method
2,3,7,8-Tetrachlorodibenzo- p-dioxin (2,3,7,8-TCDD) GC/HRMS	EPA 1613/1613B
1,4-Dioxane (1,4-Diethyleneoxide) analysis by GC/HRMS	EPA 522
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	EPA 537
Perfluorinated Alkyl Acids in Drinking Water by SPE and LC/MS/MS	ISO 25101 2009

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

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

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2000950 1.5°C

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20200423-161808
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	PDI-1156SC-A-02-03-200423	FD	SE	04/23/2020		1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	7 7	4°C 4°C
② 002	PDI-156SC-A-00-01-200423	N	SE	04/23/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans PCB Congeners ② Total solids (VISTA)	E1613B E1668A SM2540G	7 7 7	4°C 4°C 4°C
003	PDI-156SC-A-01-02-200423	N	SE	04/23/2020	8:40	2	<input checked="" type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	7 7	4°C 4°C
004	PDI-156SC-A-02-03-200423	N	SE	04/23/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	7 7	4°C 4°C
005	PDI-156SC-A-03-04-200423	N	SE	04/23/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	7 7	4°C 4°C
006	PDI-156SC-A-04-05-200423	N	SE	04/23/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans Total solids (VISTA)	E1613B SM2540G	7 7	4°C 4°C
007	PDI-156SC-A-05-06-200423	N	SE	04/23/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C

Comment: ② WO # 2006975

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>Lucas Henry</i>	Signature: <i>William E. Wright</i>	Signature:	Signature:	Signature:	Signature:
Print Name: Lucas Henry	Print Name: William E. Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor QEA	Company: VIAL	Company:	Company:	Company:	Company:
Date/Time: 4/24/2020 1500	Date/Time: 4-28-20 09:01	Date/Time:	Date/Time:	Date/Time:	Date/Time:

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

2000950
1.5°C

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

Project: Gasco PDI
Client: NW Natural

COC ID: VISTA-20200423-161808
Sample Custodian: CO
Lab: VISTA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	PDI-156SC-A-05-06-200423	N	SE	04/23/2020	8:40	1	<input type="checkbox"/>	Total solids (VISTA)	SM2540G	7	4°C
008	PDI-156SC-A-06-07-200423	N	SE	04/23/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
009	PDI-156SC-A-07-08-200423	N	SE	04/23/2020	8:40	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
(A) 010	PDI-158SC-A-00-01-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								PCB Congeners (A)	E1668A	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
011	PDI-158SC-A-01-02-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
012	PDI-158SC-A-02-03-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C
013	PDI-158SC-A-03-04-200423	N	SE	04/23/2020	12:50	1	<input type="checkbox"/>	Dioxin/Furans	E1613B	7	4°C
								Total solids (VISTA)	SM2540G	7	4°C

Comment: (A) WO 2000960

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature: <i>Lucas Henry</i>	Signature: <i>William R. Wright</i>	Signature:	Signature:	Signature:	Signature:
Print Name: Lucas Henry	Print Name: William R. Wright	Print Name:	Print Name:	Print Name:	Print Name:
Company: Anchor OEA	Company: VPA	Company:	Company:	Company:	Company:
Date/Time: 4/24/2020 1500	Date/Time: 4-28-20 09:04	Date/Time:	Date/Time:	Date/Time:	Date/Time:

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

Sample Log-In Checklist

 Page # 1 of 1

 Vista Work Order #: 2000950 TAT 7 days

Samples Arrival:	Date/Time: 4/28/20 09:04	Initials: UKW	Location: UK-2
Delivered By:	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> UPS	<input type="checkbox"/> On Trac
Preservation:	<input checked="" type="checkbox"/> Ice	<input type="checkbox"/> Blue Ice	<input type="checkbox"/> Dry Ice
Temp °C:	1.5 (uncorrected)	Probe used: Y / <input checked="" type="checkbox"/>	Thermometer ID: IR-3
Temp °C:	1.5 (corrected)		
		<input type="checkbox"/> DHL	<input type="checkbox"/> Hand Delivered
			<input type="checkbox"/> Other
			Shelf/Rack: NA

	YES	NO	NA
Shipping Container(s) Intact?	<input checked="" type="checkbox"/>		
Shipping Custody Seals Intact?	<input checked="" type="checkbox"/>		
Airbill <u>2 of 2</u> Trk # <u>7703 3185 9864</u>	<input checked="" type="checkbox"/>		
Shipping Documentation Present?	<input checked="" type="checkbox"/>		
Shipping Container	<input type="checkbox"/> Vista	<input checked="" type="checkbox"/> Client	<input type="checkbox"/> Retain
			<input type="checkbox"/> Return
			<input type="checkbox"/> Dispose
Chain of Custody / Sample Documentation Present?	<input checked="" type="checkbox"/>		
Chain of Custody / Sample Documentation Complete?	<input checked="" type="checkbox"/>		
Holding Time Acceptable?	<input checked="" type="checkbox"/>		
Logged In:	Date/Time: 04/28/20 12:17	Initials: JP	Location: UK-2
			Shelf/Rack: G-4
COC Anomaly/Sample Acceptance Form completed?			
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

CoC/Label Reconciliation Report WO# 2000950

LabNumber	CoC Sample ID	SampleAlias	Sample Date/Time	Container	BaseMatrix	Sample Comments
2000950-01	A PDI-1156SC-A-02-03-200423	<input checked="" type="checkbox"/> CZ	23-Apr-20 00:00	<input type="checkbox"/> *1 Amber Glass, 120 mL	Solid	DUP
2000950-02	A PDI-156SC-A-00-01-200423	<input checked="" type="checkbox"/> CZ	23-Apr-20 08:40	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-03	A PDI-156SC-A-01-02-200423	<input checked="" type="checkbox"/> CZ	23-Apr-20 08:40	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-03	B PDI-156SC-A-01-02-200423	<input checked="" type="checkbox"/> CZ	23-Apr-20 08:40	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-04	A PDI-156SC-A-02-03-200423	<input checked="" type="checkbox"/> CZ	23-Apr-20 08:40	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-05	A PDI-156SC-A-03-04-200423	<input checked="" type="checkbox"/> CZ	23-Apr-20 08:40	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-06	A PDI-156SC-A-04-05-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 08:40	<input checked="" type="checkbox"/> C1 Amber Glass, 120 mL	Solid	
2000950-07	A PDI-156SC-A-05-06-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 08:40	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-08	A PDI-156SC-A-06-07-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 08:40	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-09	A PDI-156SC-A-07-08-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 08:40	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-10	A PDI-158SC-A-00-01-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 12:50	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-11	A PDI-158SC-A-01-02-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 12:50	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-12	A PDI-158SC-A-02-03-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 12:50	<input checked="" type="checkbox"/> Amber Glass, 120 mL	Solid	
2000950-13	A PDI-158SC-A-03-04-200423	<input checked="" type="checkbox"/> C1	23-Apr-20 12:50	<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?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample Custody Seals Intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Adequate Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Preservation Documented: Na2S2O3 Trizma <u>None</u> Other	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If Chlorinated or Drinking Water Samples, Acceptable Preservation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: *1 Date and time on sample "04/23/2020 08:40"

C1 = Cooler 1 of 2
C2 = Cooler 2 of 2

A Logged in time: 08:40; matches the parent sample.

Verified by/Date: HDG 04/28/2020

EXTRACTION INFORMATION

Process Sheet
 Workorder: **2000950**



Prep Expiration: 2021-04-23
 Client: Anchor QEA, LLC

Workorder Due: 05-May-20 00:00

TAT: 7

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

Prep Batch: BOE0015

Prep Data Entered: AO 05/05/20
 Date and Initials

Initial Sequence: SOE0015

LabSampleID	Recon	ClientSampleID	Date Received	Location	Comments
2000950-01	<input checked="" type="checkbox"/>	PDI-1156SC-A-02-03-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-02	<input checked="" type="checkbox"/>	PDI-156SC-A-00-01-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-03	<input checked="" type="checkbox"/>	PDI-156SC-A-01-02-200423	28-Apr-20 09:04	WR-2 G-4	DUP ✓
2000950-04	<input type="checkbox"/>	PDI-156SC-A-02-03-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-05	<input type="checkbox"/>	PDI-156SC-A-03-04-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-06	<input type="checkbox"/>	PDI-156SC-A-04-05-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-07	<input type="checkbox"/>	PDI-156SC-A-05-06-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-08	<input type="checkbox"/>	PDI-156SC-A-06-07-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-09	<input type="checkbox"/>	PDI-156SC-A-07-08-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-10	<input type="checkbox"/>	PDI-158SC-A-00-01-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-11	<input type="checkbox"/>	PDI-158SC-A-01-02-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-12	<input type="checkbox"/>	PDI-158SC-A-02-03-200423	28-Apr-20 09:04	WR-2 G-4	
2000950-13	<input type="checkbox"/>	PDI-158SC-A-03-04-200423	28-Apr-20 09:04	WR-2 G-4	

WO Comments: **Dioxin - 10g (dry weight)** DF 05/02/20
One dup required per batch of 20 samples RR 05/02/20

Pre-Prep Check Out: _____

Prep Check Out: RR 05/02/20

Prep Reconciled Initials/Date: RR 05/02/20

Pre-Prep Check In: _____

Prep Check In: RR 05/02/20

Spike Reconciled Initials/Date: ME 05/02/2020

VialBoxID: Animal Crossing

PREPARATION BENCH SHEET

Matrix: Solid

B0E0015

RR 05/02/20

Chemist: RR

Method: 1613 Full List
Method: 8290 2.3.7.8s Only

Prepared using: HRMS - Soxhlet

Prep Date/Time: 02-May-20 10:44

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"/>	B0E0015-BLK1	NA	(10.00)	DF RR 05/02/20	AO AC 05/04/20	NA	AO 05/05/20	AZ 07/05/20	AO 05/05/20	AO AZ 05/05/20
<input type="checkbox"/>	B0E0015-BS1	NA	(10.00)							
<input type="checkbox"/>	B0E0015-DUP1 2000950-03	11.29	11.36							
<input type="checkbox"/>	2000927-13RE2	12.90	12.94							
<input type="checkbox"/>	2000932-20RE2 (3)	26.35	26.67				brown ↓			
<input type="checkbox"/>	2000950-01	12.65	12.74							
<input type="checkbox"/>	2000950-02	11.08	11.13							
<input type="checkbox"/>	2000950-03	11.29	11.30							
<input type="checkbox"/>	2000950-03 RR 05/02/20									
<input type="checkbox"/>	2000950-04	12.23	12.29			NA	AO 05/05/20		AO 05/05/20	AO AZ 05/05/20
<input type="checkbox"/>	2000950-05	11.96	11.97							
<input type="checkbox"/>	2000950-06	11.00	11.04							
<input type="checkbox"/>	2000950-07	11.00	11.02							
<input type="checkbox"/>	2000950-08	11.64	11.70							
<input type="checkbox"/>	2000950-09	12.76	12.81							

IS Name <u>V2</u>	NS Name <u>V2</u>	CRS Name <u>V2</u>	RS Name <u>V2</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 05/02/20</u>
PCDD/F <u>14L2301, 10mL</u>	PCDD/F <u>18F1413, 10mL</u>	PCDD/F <u>19F1602, 10mL</u>	PCDD/F <u>19I1603, 10mL</u>	Start Date/Time <u>05/02/20 1714</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 05/02/20</u>
PCB _____	PCB _____	PCB _____	PCB _____	Stop Date/Time <u>05/03/20 0922</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH _____	PAH _____	PAH _____	PAH _____	Final Volume(s) <u>C14 20mL</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
 Work Order 2000950

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

(3) AZ 05/04/20

PREPARATION BENCH SHEET

Matrix: Solid

B0E0015

Chemist: RR

Method: 1613 Full List
Method: 8290 2.3.7.8s Only

Prepared using: HRMS - Soxhlet

Prep Date/Time: 02-May-20 10:44

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"/>	2000950-10	11.83	12.88	DF RR 05/02/20	RR 05/04/20	NA	05/05/20	AZ 05/05/20	05/05/20	05/05/20
<input type="checkbox"/>	2000950-11	11.22	11.36	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000950-12	12.35	12.52	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000950-13	11.95	12.06	↓	↓	↓	↓	↓	↓	↓
<input type="checkbox"/>	2000951-05RE2	12.65	12.70	↓	↓	↓	↓	↓	↓	↓

* DFOS/02/20

IS Name <u>192301, 10mL</u>	NS Name <u>1821913, 10mL</u>	CRS Name <u>14E1602, 10mL</u>	RS Name <u>1911603, 10mL</u>	Cycle Time	APP: SEFUN SOX <u>SDS</u>	Check Out: Chemist/Date: <u>RR 05/02/20</u>
PCDD/F	PCDD/F	PCDD/F	PCDD/F	Start Date/Time <u>05/02/20</u> <u>1714</u>	SOLV: <u>Toluene</u>	Check In: Chemist/Date: <u>RR 05/02/20</u>
PCB	PCB	PCB	PCB	Stop Date/Time <u>05/03/20</u> <u>0922</u>	Other <u>NA</u>	Balance ID: <u>HRMS-9</u>
PAH	PAH	PAH	PAH		Final Volume(s) <u>C14</u> <u>20mL</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 B0D0310

Analyst: CHT ✓	Test Code: %Moist/%Solids	Data Entry Verified by: (Initial and Date) KA 05/01/2020 ✓
Analyte: Dried at 110°C +/- 5°C	Units: %	
Oven ID: 01_02 ✓		

Inst HRMS-9 ✓

Date/Time IN: 4/30/20 14:08 ✓
Date/Time OUT: 5/1/20 15:20 ✓

Particle Size	SampID	SampType	Initial and Date:		G		Dry Sample Weight (g)	%Solids RawVal	Visual Inspection	Cl-	pH Before	pH After	Acid Added	Sample Homogenized*
			Pan Tare Wt. (gms)	Wet Pan and Sample Weight (g)	RR 05/01/2020 ✓	CHT 04/30/2020 ✓								
	2000950-01	A ✓	Sample	1.2800 ✓	5.1500 ✓	4.3400 ✓	3.0600	79.07	Soil ✓	N/A	N/A	N/A	N/A	X ✓
	2000950-02	A	Sample	1.2900 ✓	5.5100 ✓	5.1000 ✓	3.8100	90.28	Soil	N/A	N/A	N/A	N/A	X
	2000950-03	A	Sample	1.3300 ✓	5.0000 ✓	4.5800 ✓	3.2500	88.56	Soil	N/A	N/A	N/A	N/A	X
	2000950-04	A	Sample	1.3100 ✓	6.1300 ✓	5.2500 ✓	3.9400	81.74	Soil	N/A	N/A	N/A	N/A	X
	2000950-05	A	Sample	1.3000 ✓	5.1400 ✓	4.5100 ✓	3.2100	83.59	Soil	N/A	N/A	N/A	N/A	X
	2000950-06	A	Sample	1.3100 ✓	5.0600 ✓	4.7200 ✓	3.4100	90.93	Soil	N/A	N/A	N/A	N/A	X
	2000950-07	A	Sample	1.3100 ✓	5.3900 ✓	5.0200 ✓	3.7100	90.93	Soil	N/A	N/A	N/A	N/A	X
	2000950-08	A	Sample	1.2900 ✓	4.9900 ✓	4.4700 ✓	3.1800	85.95	Soil	N/A	N/A	N/A	N/A	X
	2000950-09	A	Sample	1.3100 ✓	5.2900 ✓	4.4300 ✓	3.1200	78.39	Soil	N/A	N/A	N/A	N/A	X
	2000950-10	A	Sample	1.2900 ✓	5.8100 ✓	5.1100 ✓	3.8200	84.51	Soil	N/A	N/A	N/A	N/A	X
	2000950-11	A	Sample	1.3100 ✓	6.4700 ✓	5.9100 ✓	4.6000	89.15	Soil	N/A	N/A	N/A	N/A	X
	2000950-12	A	Sample	1.3200 ✓	5.3200 ✓	4.5600 ✓	3.2400	81.00	Soil	N/A	N/A	N/A	N/A	X
	2000950-13	A	Sample	1.3200 ✓	6.8300 ✓	5.9300 ✓	4.6100	83.67	Soil	N/A	N/A	N/A	N/A	X

*Sample homogenized in sample container unless otherwise noted.

Percent Moisture/ Percent Solids

D2216-90

BATCH ID B0D0310

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

Inst HERMS-9

Date/Time IN: 04/30/20 1708 Date/Time OUT: 05/01/20 1500

Particle Size	SampID	SampType	Initial and Date:		Wet Pan and Sample Weight (g)	Dry Pan and Sample Weight (g)	Dry Sample Weight (g)	%Solids RawVal	CWT 04/30/20				NA NA		Sample Homogenized*
			Pan Tare Wt. (gms)	RR 05/01/20					Visual Inspection	Cl-	pH Before	pH After	Acid Added		
	2000950-01	Sample	1.28	CWT 04/30/20	5.15	4.24		Soil							✓
	2000950-02	Sample	1.29		5.51	5.10									✓
	2000950-03	Sample	1.33		5.00	4.58									✓
	2000950-04	Sample	1.31		6.13	5.25									✓
	2000950-05	Sample	1.30		5.14	4.51									✓
	2000950-06	Sample	1.31		5.06	4.72									✓
	2000950-07	Sample	1.31		5.39	5.02									✓
	2000950-08	Sample	1.29		4.99	4.42									✓
	2000950-09	Sample	1.31		5.29	4.43									✓
	2000950-10	Sample	1.29		5.81	5.11									✓
	2000950-11	Sample	1.31		6.47	5.91									✓
	2000950-12	Sample	1.32		5.32	4.56									✓
	2000950-13	Sample	1.32		6.83	5.93									✓

*Sample homogenized in sample container unless otherwise noted.

Batch: B0E0015

Matrix: Solid

LabNumber	WetWeight (Initial)	% Solids (Extraction Solids)	DryWeight	Final	Extracted	Ext By	Spike	SpikeAmount	ClientMatrix	Analysis
2000927-13RE2	12.94 ✓	77.49469	10.0278	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000932-20RE2	26.67 ✓	37.95494	10.1226	20	02-May-20 10:44	RR			Sediment	8290 2,3,7,8s Only
2000950-01	12.74 ✓	79.06977	10.0735	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-02	11.13 ✓	90.28436	10.0486	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-03	11.3			20	02-May-20 10:44	RR			Sediment	8290 2,3,7,8s Only
2000950-03	11.3 ✓	88.55585	10.0068	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-04	12.29 ✓	81.74274	10.0462	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-05	11.97 ✓	83.59376	10.0062	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-06	11.04 ✓	90.93333	10.0390	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-07	11.02 ✓	90.93137	10.0206	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-08	11.7 ✓	85.94595	10.0557	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-09	12.81 ✓	78.39196	10.0420	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-10	12.88 ✓	84.51328	10.8853	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-11	11.36 ✓	89.14729	10.1271	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-12	12.52 ✓	80.99999	10.1412	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000950-13	12.06 ✓	83.66606	10.0901	20	02-May-20 10:44	RR			Sediment	1613 Full List
2000951-05RE2	12.7 ✓	79.04329	10.0385	20	02-May-20 10:44	RR			Sediment	1613 Full List
B0E0015-BLK1	10			20	02-May-20 10:44	RR				QC
B0E0015-BS1	10			20	02-May-20 10:44	RR	18F1913	10		QC
B0E0015-DUP1	11.36	88.55585	10.0599446	20	02-May-20 10:44	RR				QC

All bolded data on report verified against written benchsheet by (initial/date) AO 05/05/20

SAMPLE DATA – EPA METHOD 1613

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

GRB 05/06/2020

CT 05/07/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD			NO	0.947	10.000	25.976		1.001				0.0565	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.000	31.086		1.001				0.0467	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.000	34.452		1.000				0.0574	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.000	34.537		1.000				0.0557	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.000	34.824		1.000				0.0732	
6	6 1,2,3,4,6,7,8-HpCDD			NO	0.898	10.000	38.319		1.000				0.109	
7	7 OCDD	2.43e2	0.77	NO	0.933	10.000	41.300	41.32	1.000	1.001	0.21915		0.129	0.219
8	8 2,3,7,8-TCDF			NO	0.787	10.000	25.027		1.001				0.0345	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.000	29.773		1.001				0.0456	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.000	30.774		1.001				0.0404	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.000	33.579		1.000				0.0354	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.000	33.706		1.000				0.0326	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.000	34.305		1.001				0.0404	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.000	35.155		1.000				0.0862	
15	15 1,2,3,4,6,7,8-HpCDF			NO	0.871	10.000	36.928		1.001				0.0697	
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.000	38.894		1.000				0.116	
17	17 OCDF			NO	0.802	10.000	41.481		1.000				0.152	
18	18 13C-2,3,7,8-TCDD	9.53e5	0.78	NO	1.16	10.000	25.938	25.94	1.026	1.027	160.09	80.0	0.270	
19	19 13C-1,2,3,7,8-PeCDD	8.03e5	0.64	NO	0.847	10.000	31.013	31.06	1.227	1.229	184.55	92.3	0.396	
20	20 13C-1,2,3,4,7,8-HxCDD	5.10e5	1.28	NO	0.750	10.000	34.452	34.44	1.014	1.014	186.28	93.1	0.685	
21	21 13C-1,2,3,6,7,8-HxCDD	6.84e5	1.27	NO	0.963	10.000	34.564	34.54	1.017	1.017	194.65	97.3	0.533	
22	22 13C-1,2,3,7,8,9-HxCDD	5.43e5	1.23	NO	0.838	10.000	34.833	34.81	1.025	1.025	177.61	88.8	0.613	
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.73e5	1.06	NO	0.641	10.000	38.318	38.31	1.128	1.128	159.50	79.7	0.519	
24	24 13C-OCDD	4.76e5	0.89	NO	0.586	10.000	41.308	41.30	1.216	1.216	222.24	55.6	0.414	
25	25 13C-2,3,7,8-TCDF	1.17e6	0.77	NO	1.03	10.000	25.001	25.00	0.989	0.989	147.89	73.9	0.309	
26	26 13C-1,2,3,7,8-PeCDF	1.16e6	1.57	NO	0.845	10.000	29.706	29.75	1.176	1.177	178.79	89.4	0.627	
27	27 13C-2,3,4,7,8-PeCDF	1.17e6	1.59	NO	0.814	10.000	30.694	30.74	1.215	1.217	186.75	93.4	0.651	
28	28 13C-1,2,3,4,7,8-HxCDF	7.39e5	0.50	NO	1.00	10.000	33.593	33.58	0.989	0.988	201.55	101	0.608	
29	29 13C-1,2,3,6,7,8-HxCDF	9.16e5	0.50	NO	1.14	10.000	33.715	33.70	0.992	0.992	220.83	110	0.538	
30	30 13C-2,3,4,6,7,8-HxCDF	7.39e5	0.53	NO	1.02	10.000	34.282	34.27	1.009	1.009	197.99	99.0	0.598	
31	31 13C-1,2,3,7,8,9-HxCDF	4.27e5	0.51	NO	0.845	10.000	35.172	35.15	1.035	1.035	138.32	69.2	0.724	

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	4.97e5	0.44	NO	0.771	10.000	36.901	36.89	1.086	1.086	176.72	88.4	0.734	
33	13C-1,2,3,4,7,8,9-HpCDF	2.36e5	0.41	NO	0.482	10.000	38.909	38.89	1.145	1.145	133.96	67.0	1.17	
34	13C-OCDF	4.60e5	0.87	NO	0.669	10.000	41.478	41.48	1.221	1.221	188.45	47.1	0.376	
35	37Cl-2,3,7,8-TCDD	3.59e5			1.10	10.000	25.968	25.98	1.028	1.028	63.728	79.7	0.0794	
36	13C-1,2,3,4-TCDD	1.03e6	0.81	NO	1.00	10.000	25.350	25.27	1.000	1.000	200.00	100	0.313	
37	13C-1,2,3,4-TCDF	1.53e6	0.79	NO	1.00	10.000	23.560	23.49	1.000	1.000	200.00	100	0.319	
38	13C-1,2,3,4,6,9-HxCDF	7.30e5	0.51	NO	1.00	10.000	34.000	33.97	1.000	1.000	200.00	100	0.611	
39	Total Tetra-Dioxins				0.947	10.000	24.620		0.000				0.0345	
40	Total Penta-Dioxins				0.942	10.000	29.960		0.000				0.0235	
41	Total Hexa-Dioxins				0.915	10.000	33.635		0.000				0.0318	
42	Total Hepta-Dioxins				0.898	10.000	37.640		0.000				0.0549	
43	Total Tetra-Furans				0.787	10.000	23.610		0.000				0.0153	
44	1st Func. Penta-Furans				0.910	10.000	27.090		0.000				0.0107	
45	Total Penta-Furans				0.910	10.000	29.275		0.000				0.0175	
46	Total Hexa-Furans				0.922	10.000	33.555		0.000				0.0228	
47	Total Hepta-Furans				0.871	10.000	37.835		0.000				0.0465	

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

Tetra-Dioxins

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

Penta-Dioxins

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

Hexa-Dioxins

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

Hepta-Dioxins

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

Tetra-Furans

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

Penta-Furans function 1

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

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-4.qld

Last Altered: Wednesday, May 06, 2020 1:57:41 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:58:59 PM Pacific Daylight Time

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

Penta-Furans

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

Hexa-Furans

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

Hepta-Furans

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

3

5

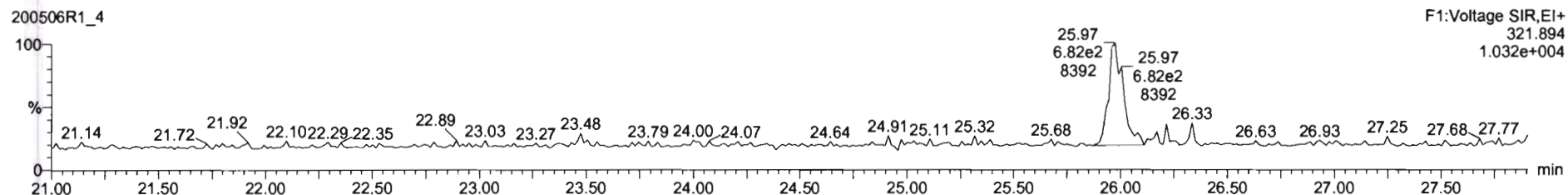
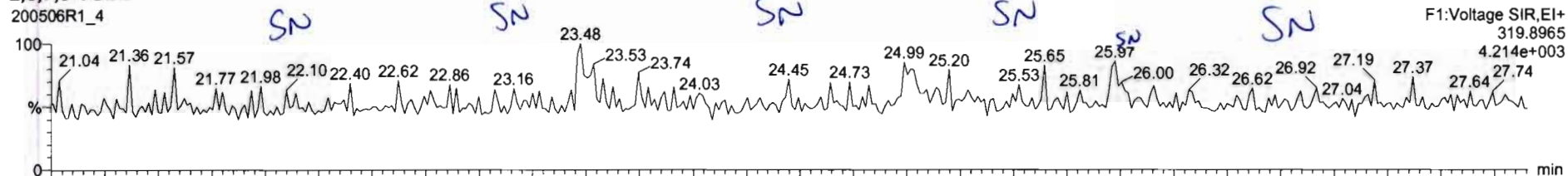
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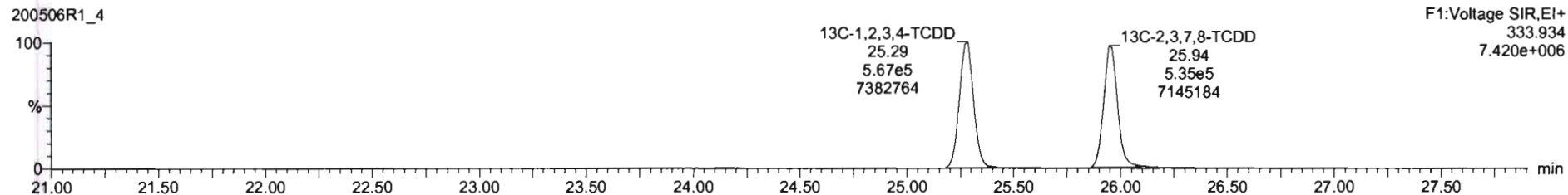
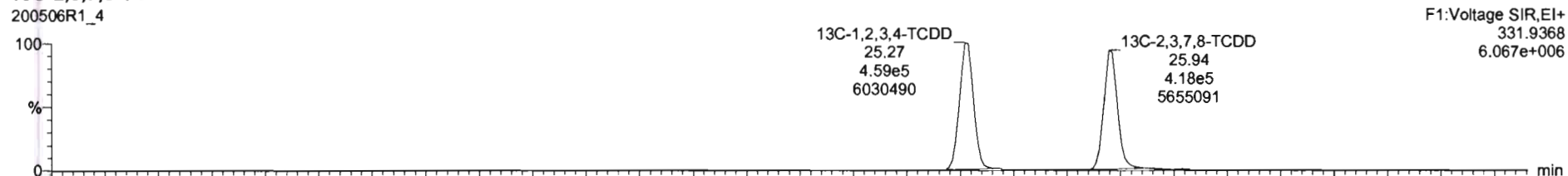
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Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

2,3,7,8-TCDD



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



Dataset: Untitled

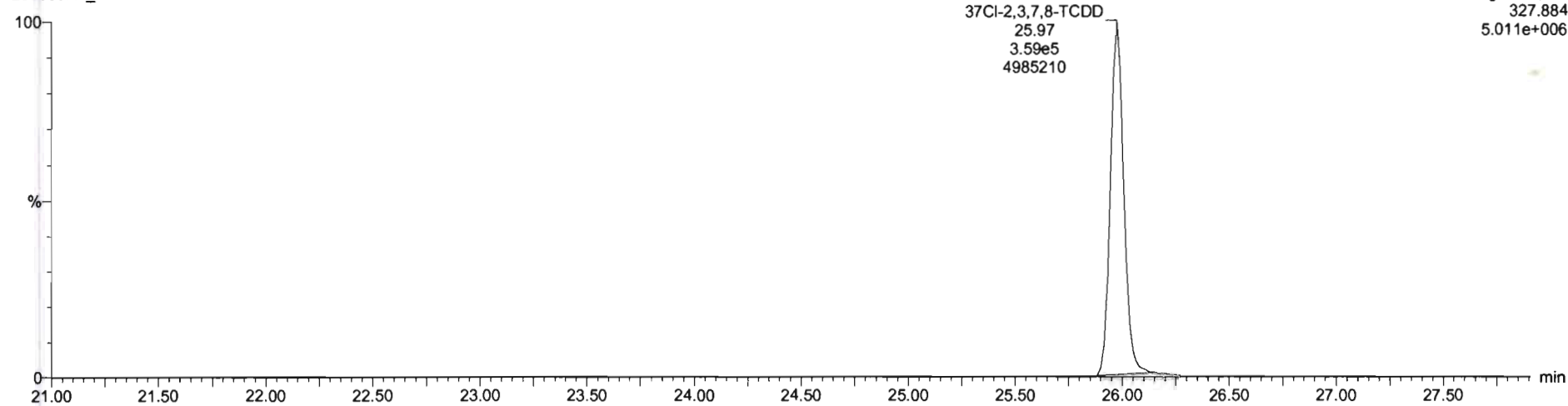
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Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

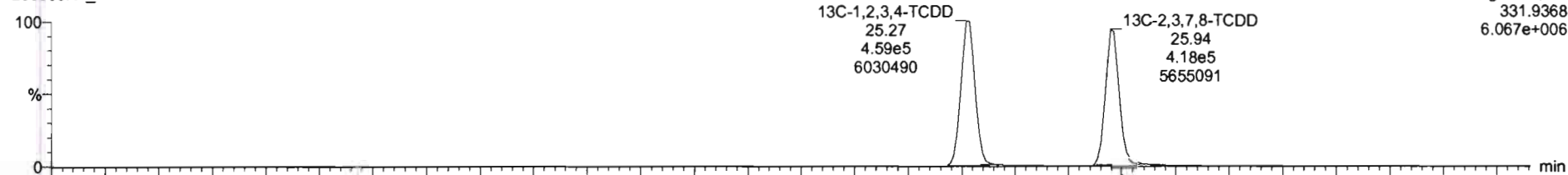
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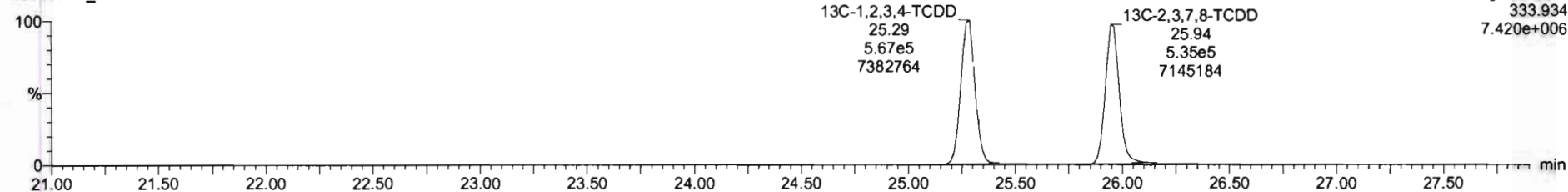


13C-1,2,3,4-TCDD

200506R1_4



200506R1_4



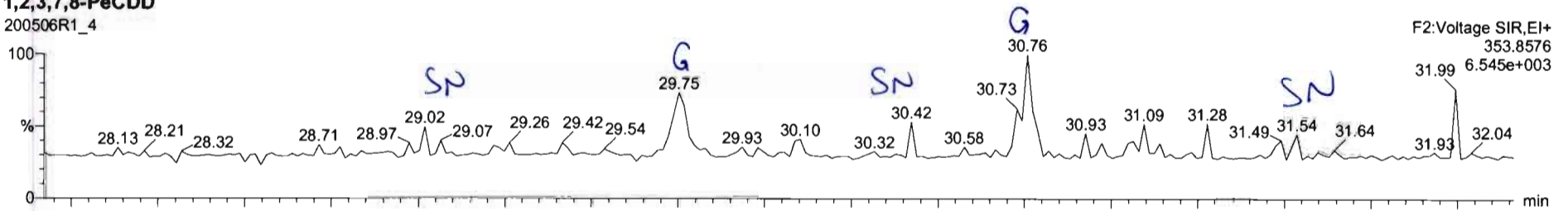
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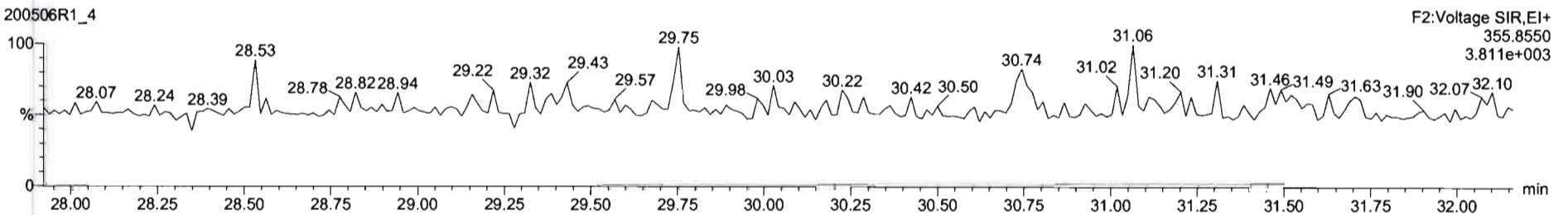
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1,2,3,7,8-PeCDD

200506R1_4

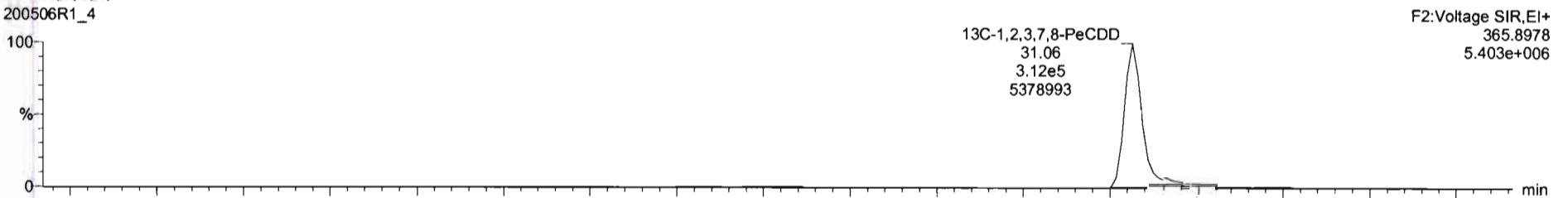


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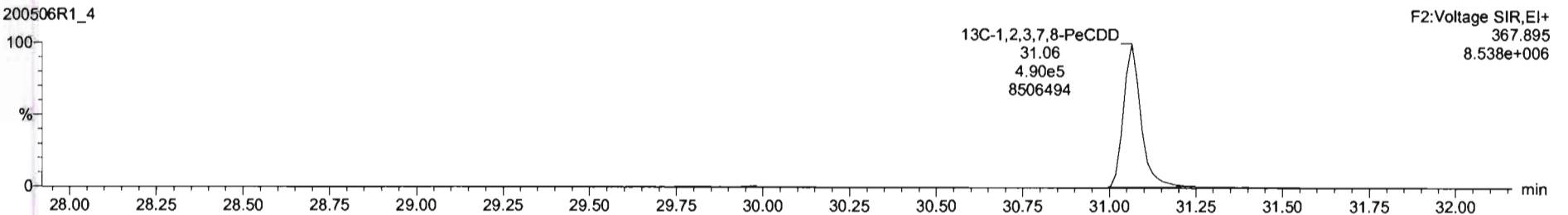


13C-1,2,3,7,8-PeCDD

200506R1_4



200506R1_4



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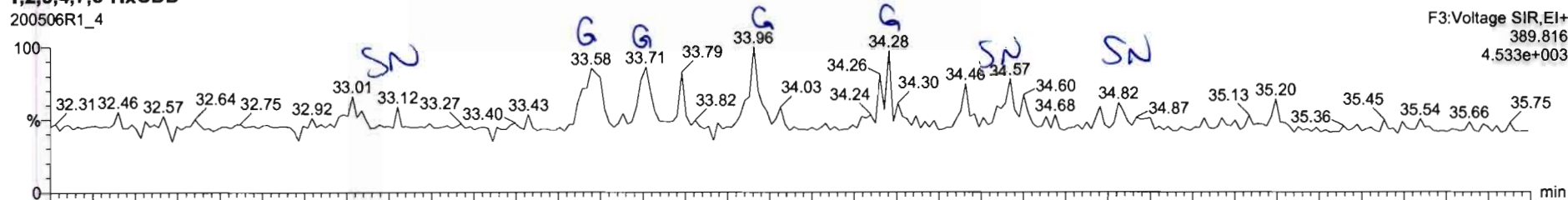
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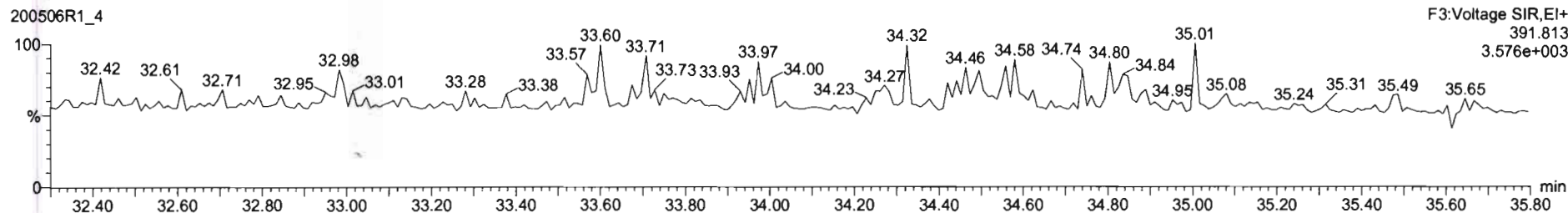
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1,2,3,4,7,8-HxCDD

200506R1_4

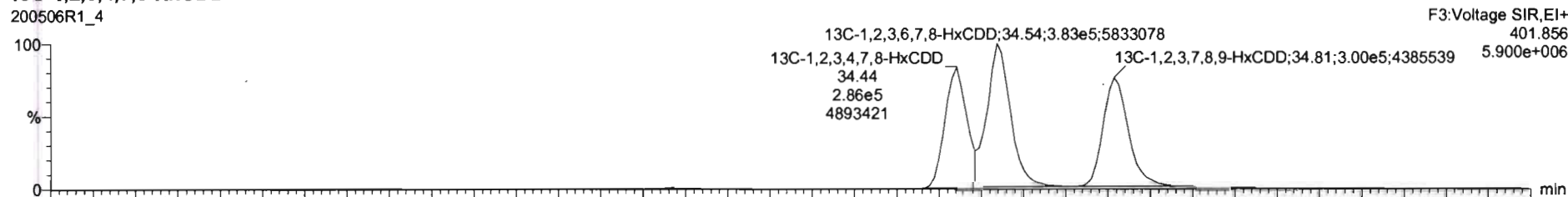


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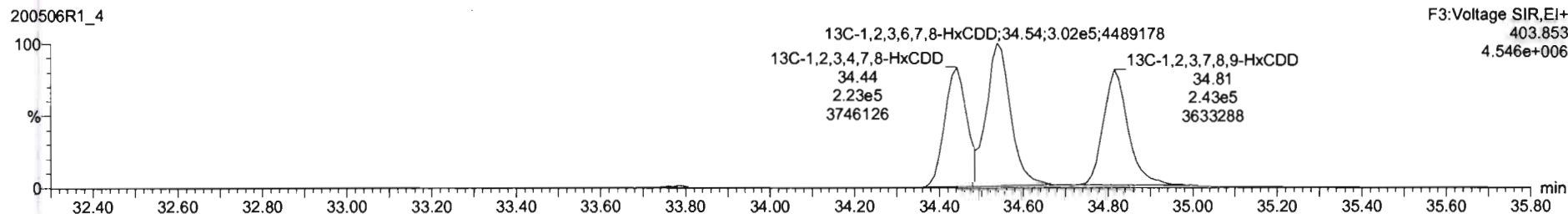


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200506R1_4



200506R1_4



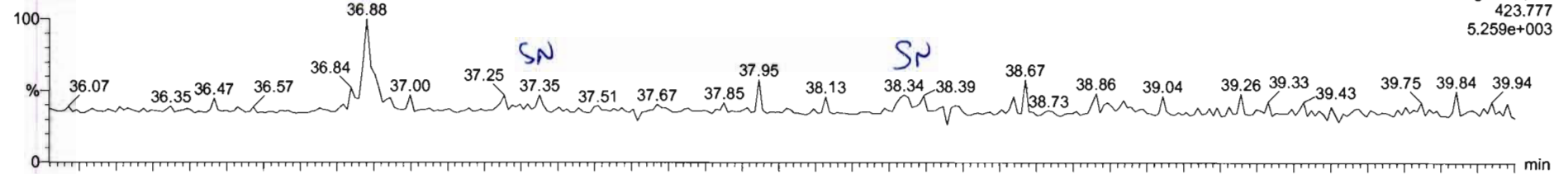
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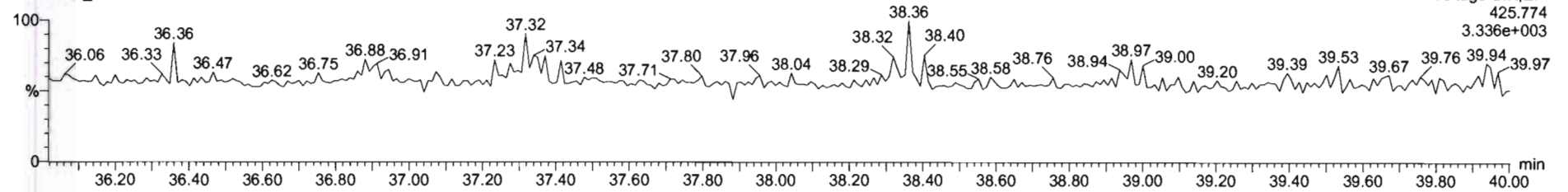
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1,2,3,4,6,7,8-HpCDD

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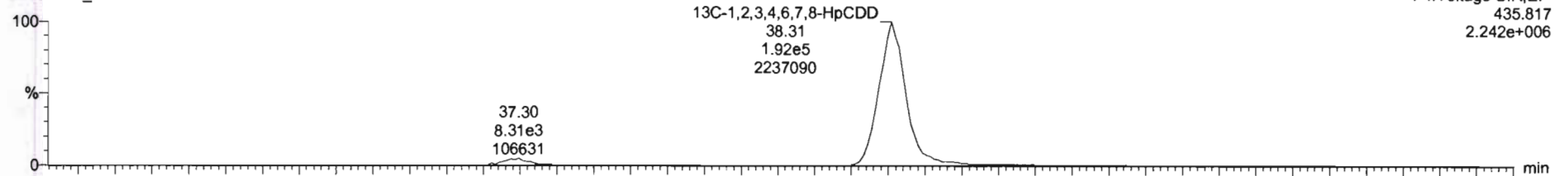


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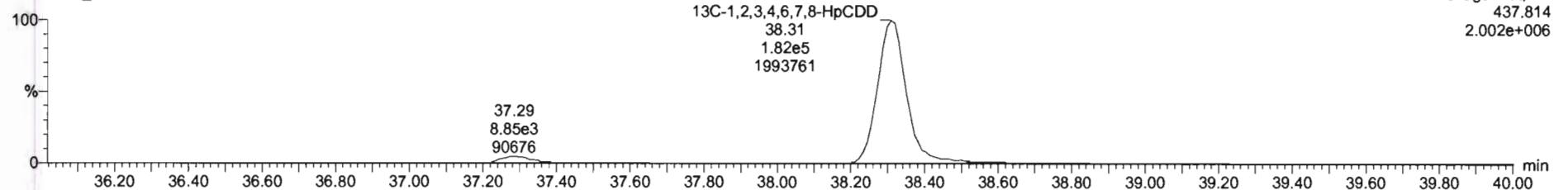


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200506R1_4



200506R1_4



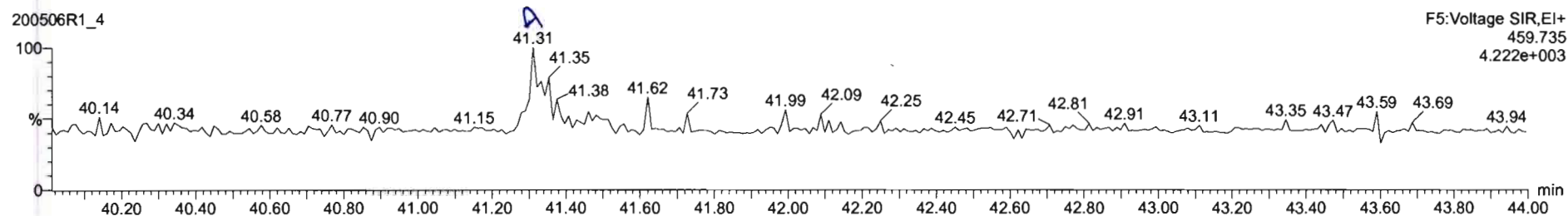
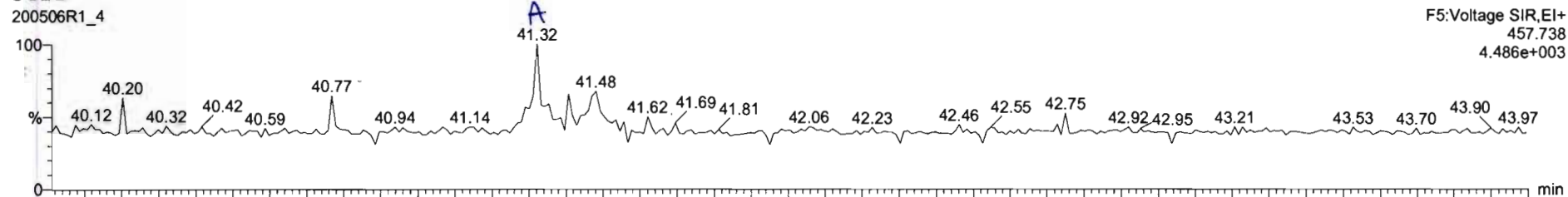
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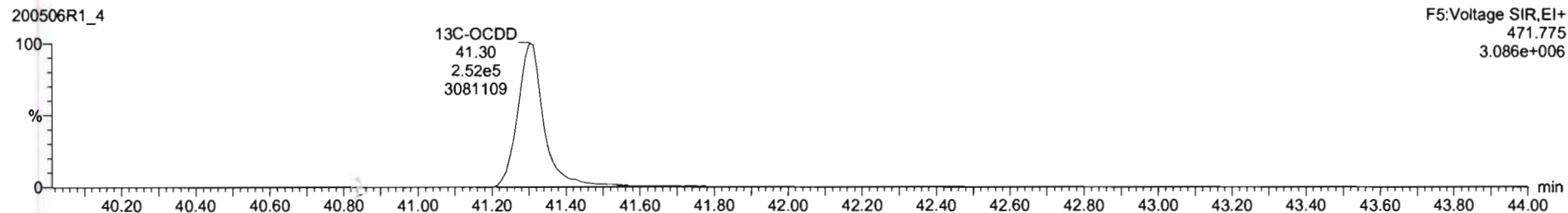
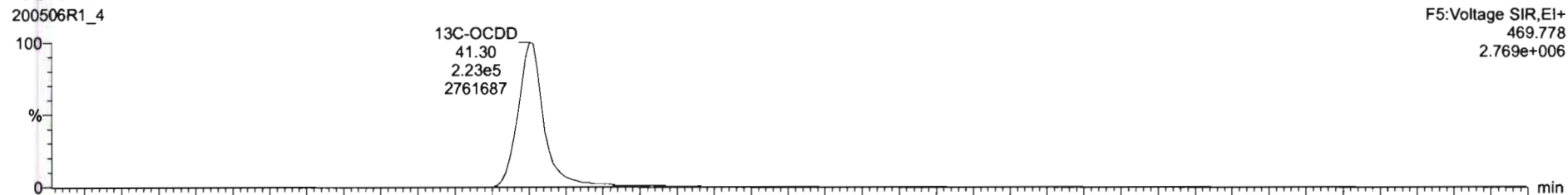
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Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

OCDD



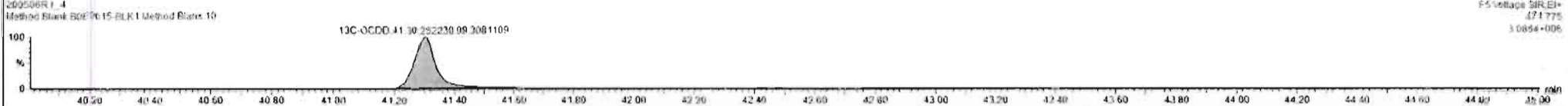
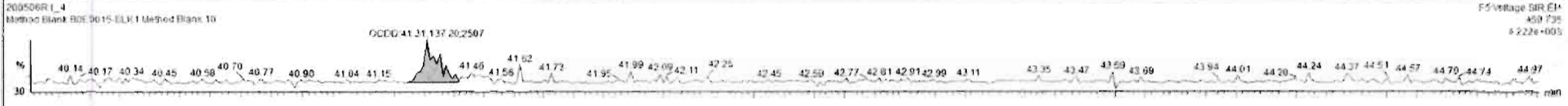
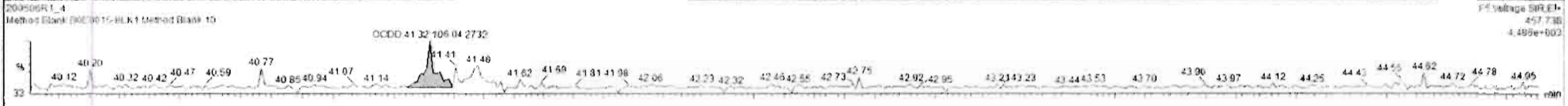
13C-OCDD



200506R1_4 - B0E0015-BLK1 Method Blank 10 - Method Blank

Name	Resp	RA	n/y	RRF	vsVst	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	2.43e2	0.77	NO	0.93	18.000	41.32	1.001	0.219		0.129	0.219
8 2,3,7,8-TCDF			NO	0.79	18.000					0.0345	
9 1,2,3,7,8-PeCDF			NO	0.91	18.000					0.0456	
10 2,3,4,7,8-PeCDF			NO	0.97	18.000					0.0404	
11 1,2,3,4,7,8-HxCDF			NO	0.88	18.000					0.0154	

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



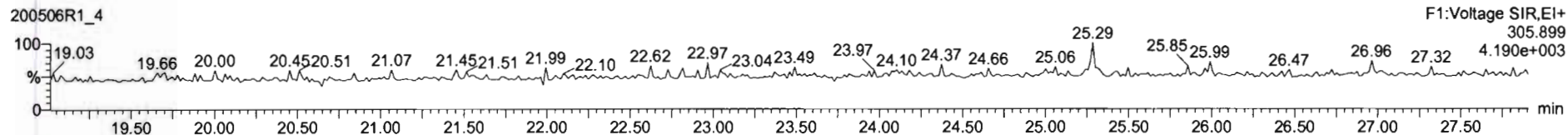
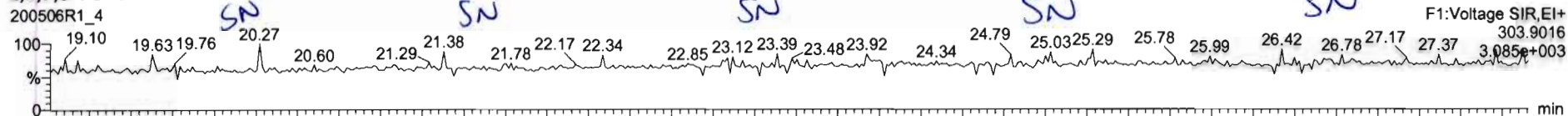
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Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

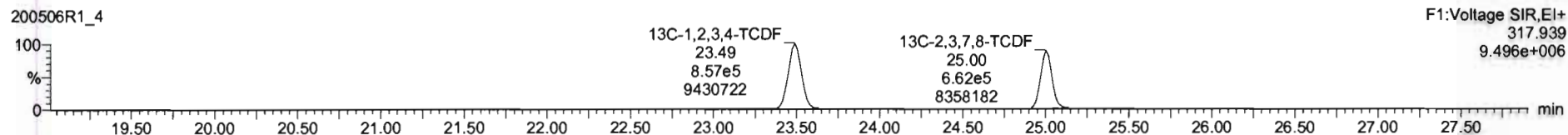
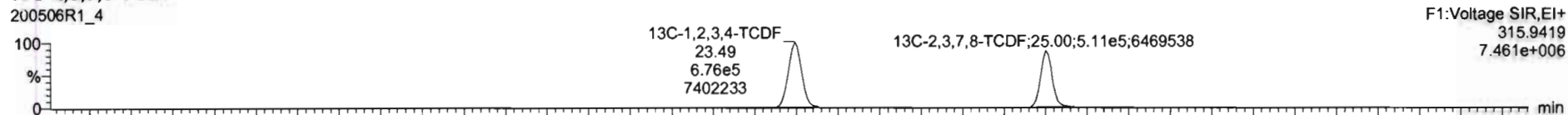
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

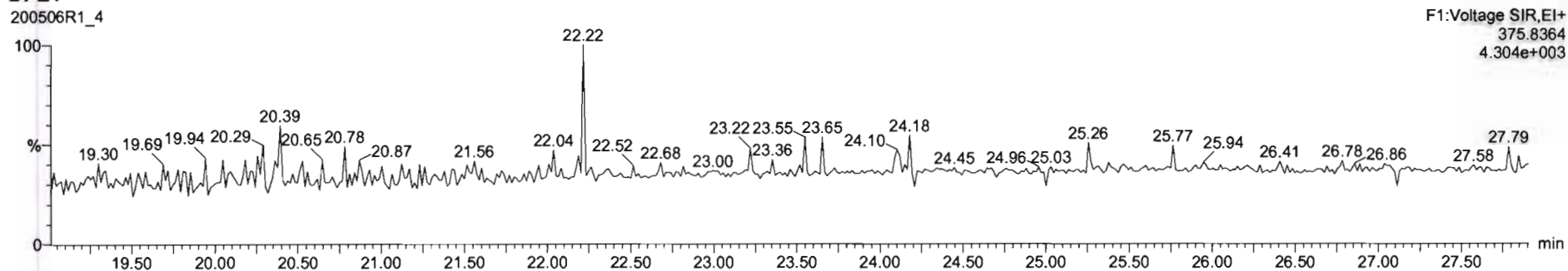
2,3,7,8-TCDF



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



DPE1



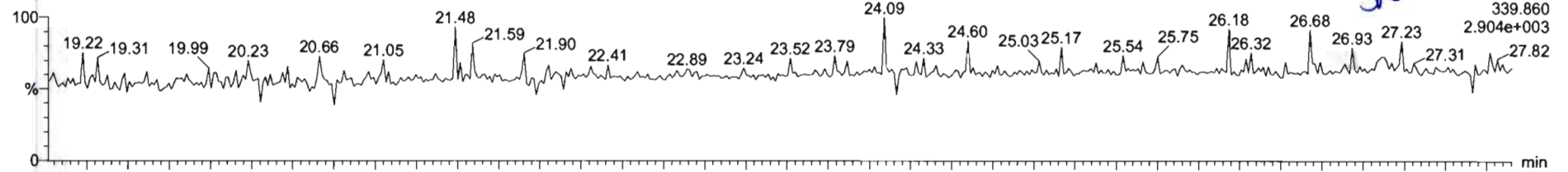
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Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

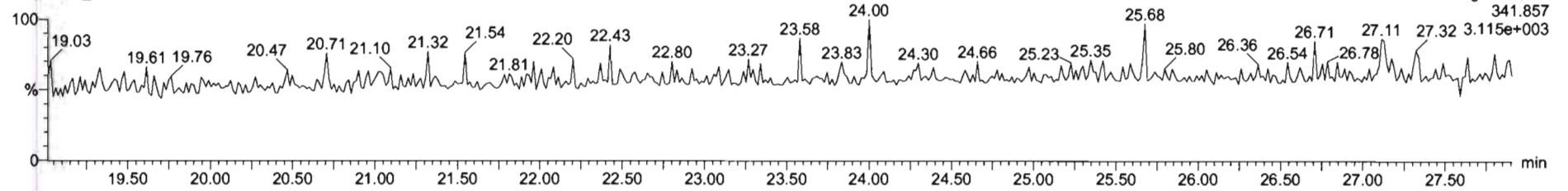
Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

1st Func. Penta-Furans

200506R1_4

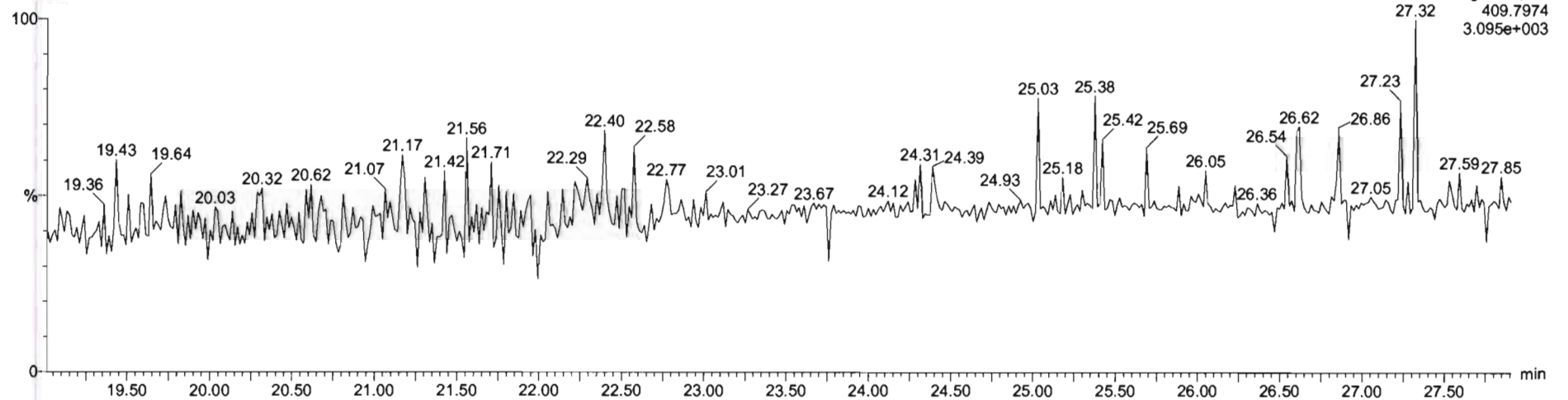


200506R1_4



DPE6

200506R1_4

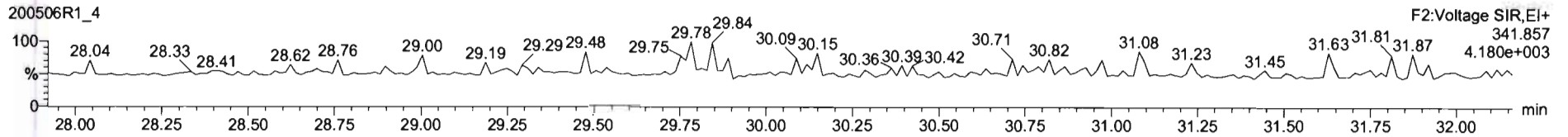
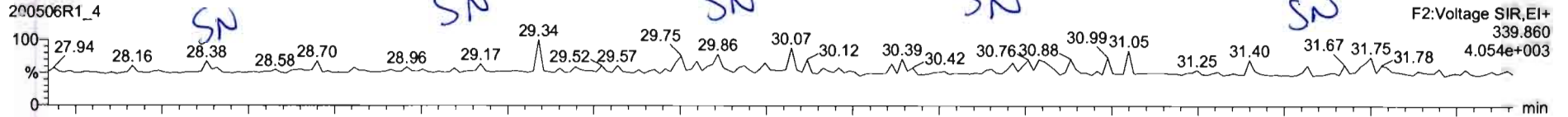


Dataset: Untitled

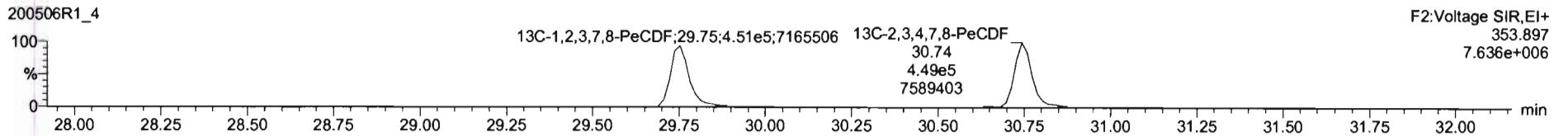
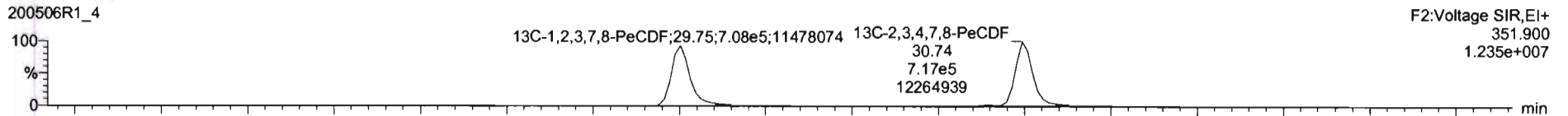
Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

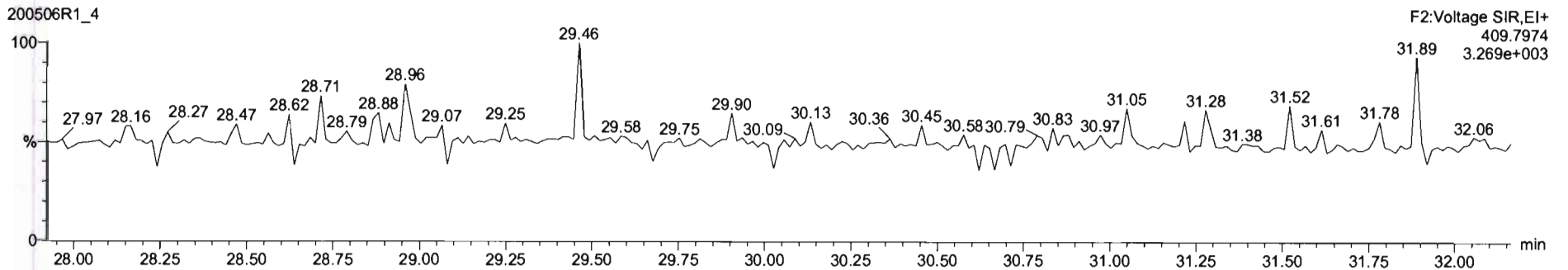
1,2,3,7,8-PeCDF



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



DPE2



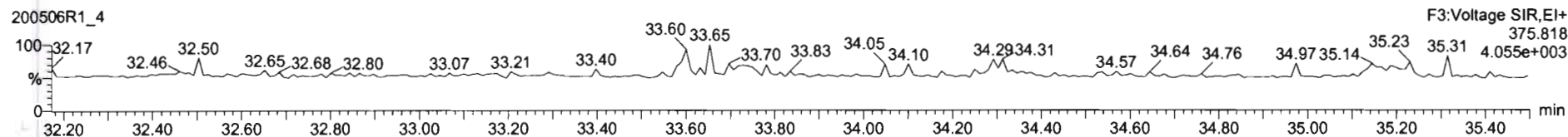
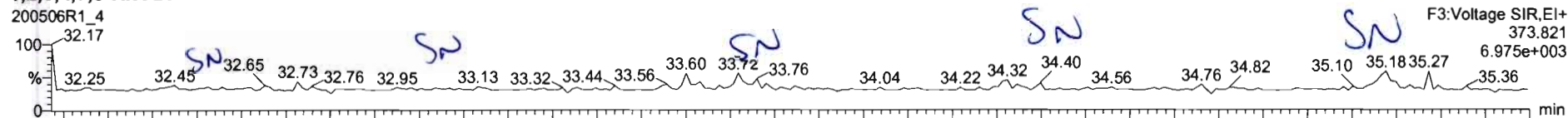
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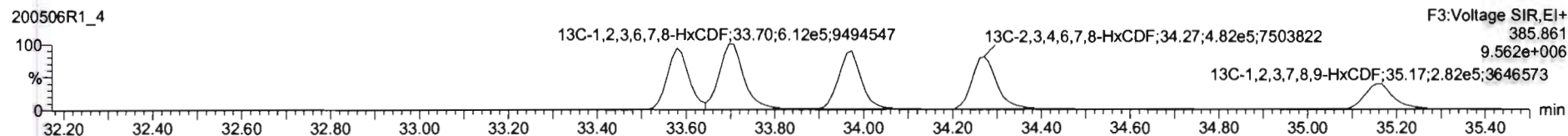
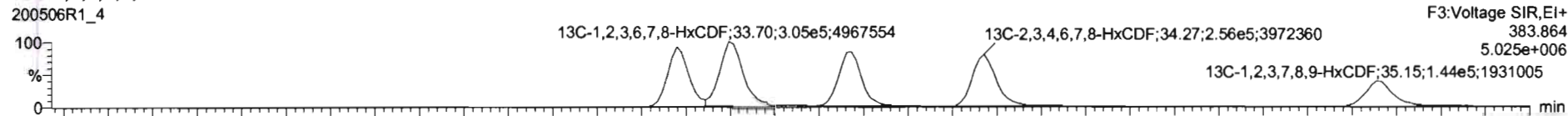
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Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

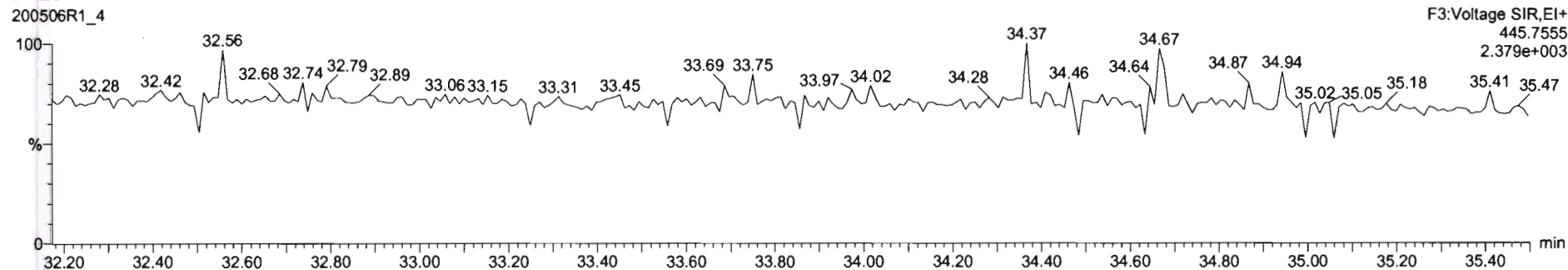
1,2,3,4,7,8-HxCDF



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



DPE3

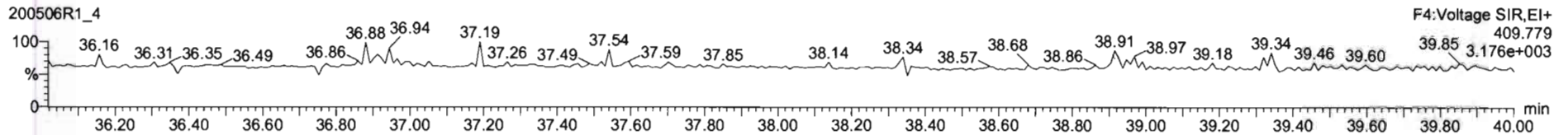
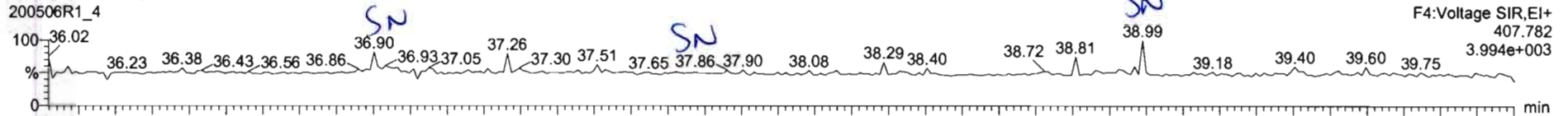


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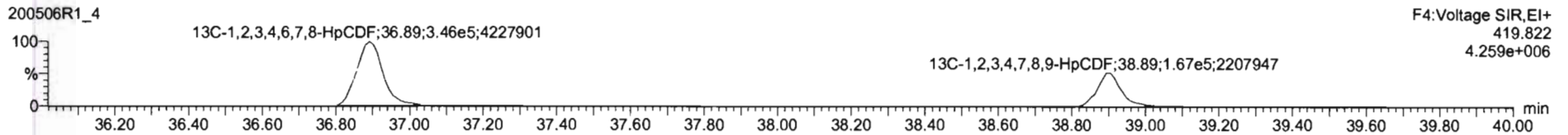
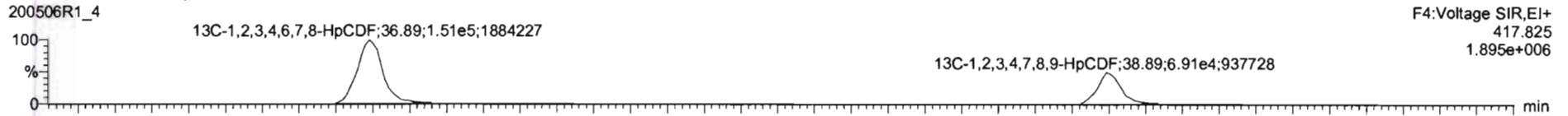
Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

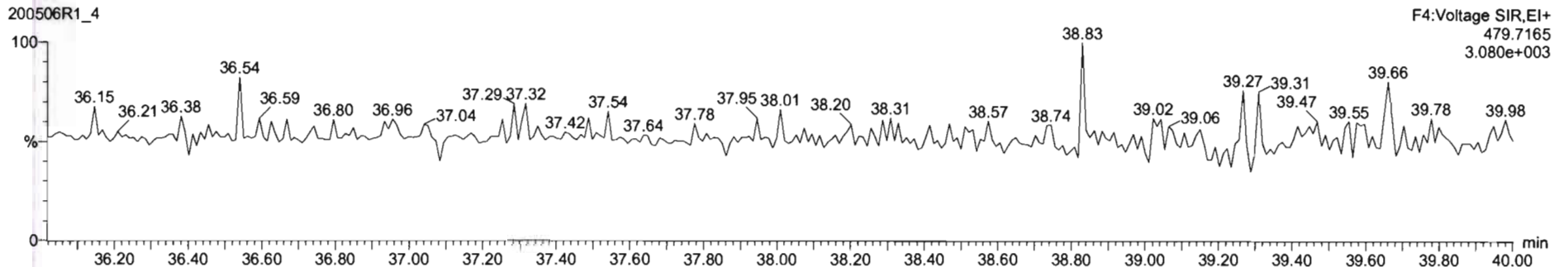
1,2,3,4,6,7,8-HpCDF



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



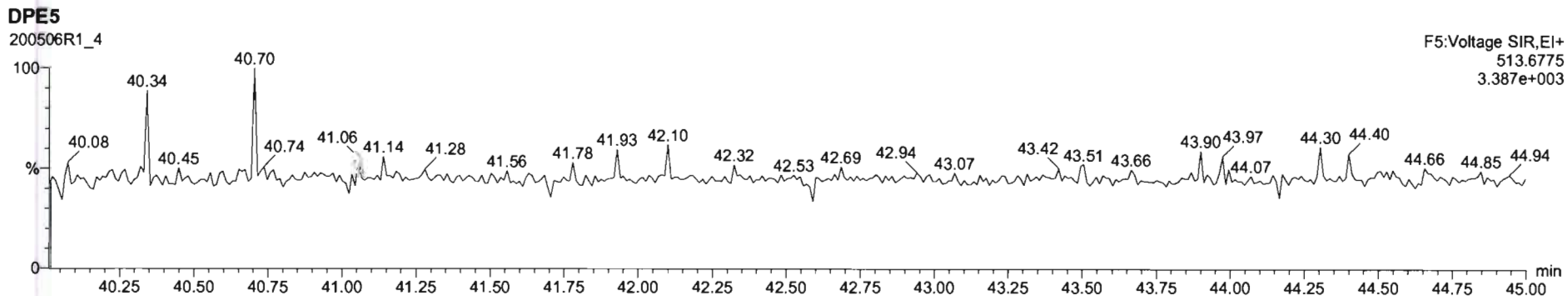
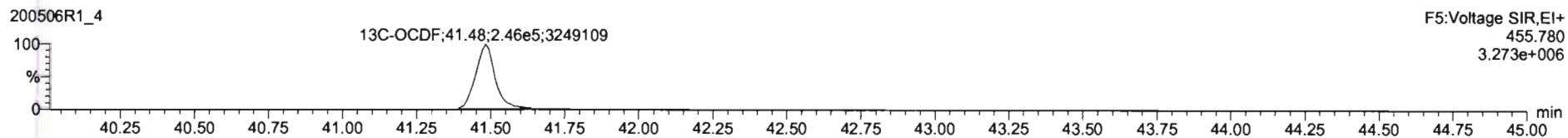
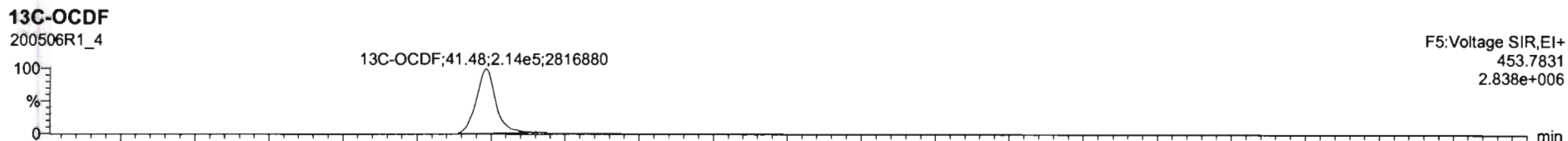
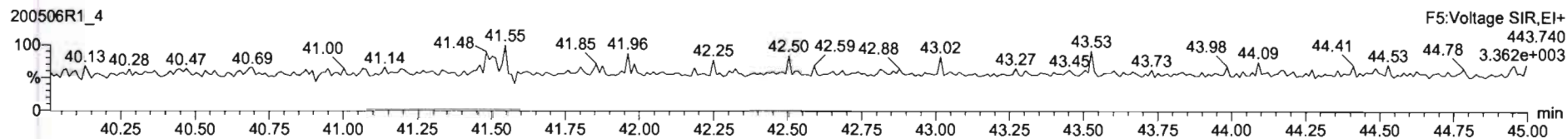
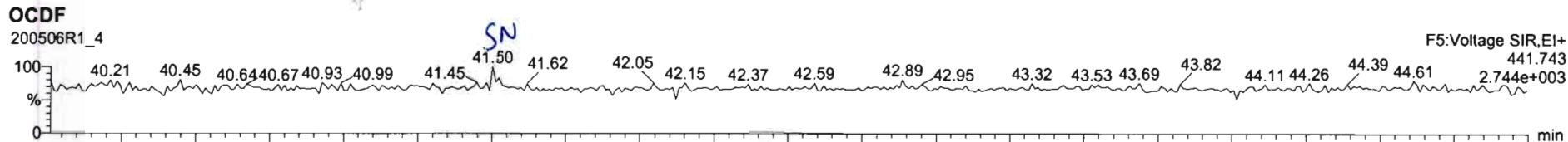
DPE4



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank

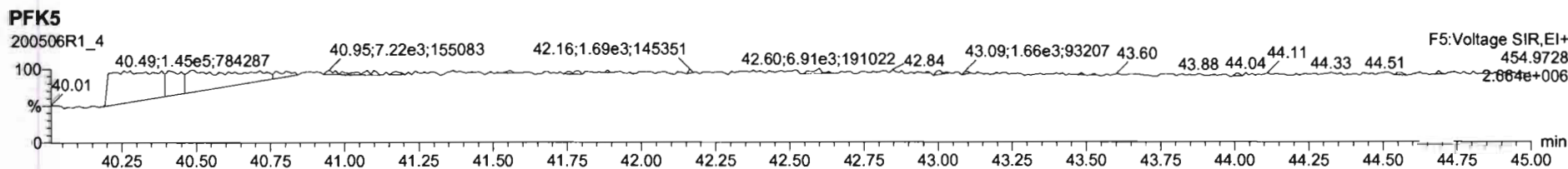
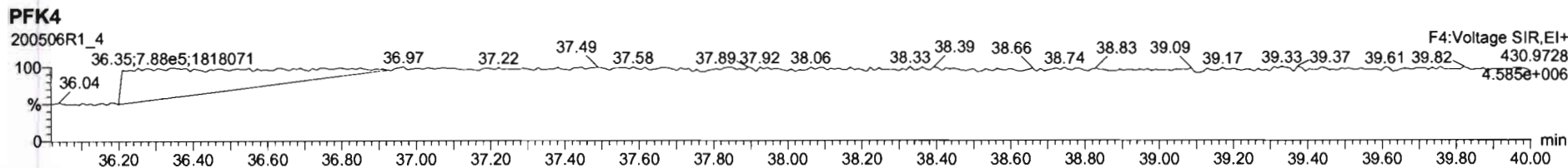
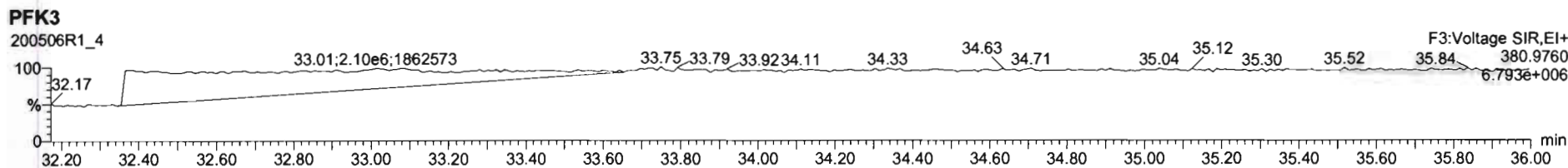
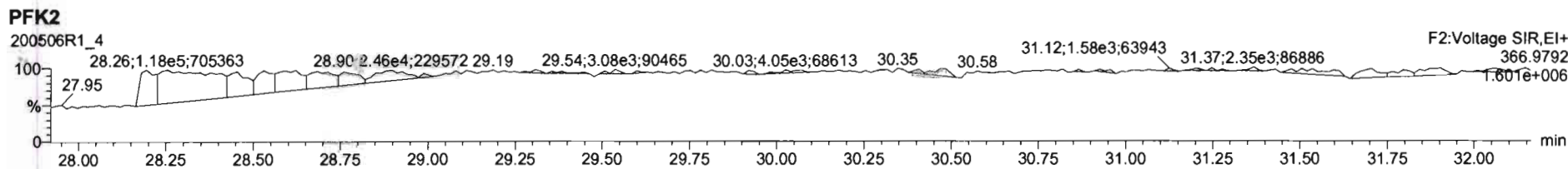
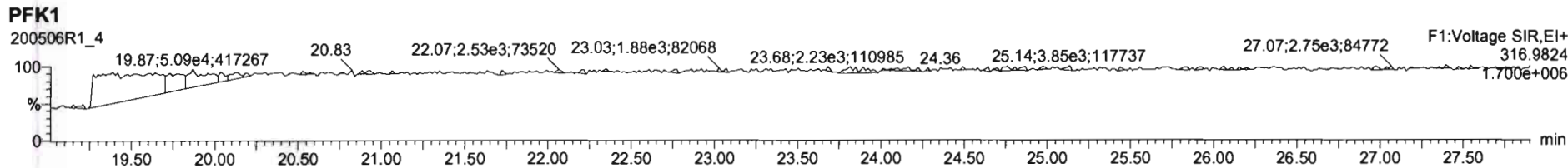


Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:26 PM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:51:29 PM Pacific Daylight Time

Name: 200506R1_4, Date: 06-May-2020, Time: 10:17:03, ID: B0E0015-BLK1 Method Blank 10, Description: Method Blank



Dataset: U:\VG12.PRO\Results\200506R1\200506R1-2.qld

Last Altered: Wednesday, May 06, 2020 9:30:15 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 1:59:29 PM Pacific Daylight Time

GRB 05/06/2020

CT 05/07/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	8.61e4	0.77	NO	0.947	10.000	25.991	25.98	1.001	1.001	16.344		0.0741	16.3
2	2 1,2,3,7,8-PeCDD	3.28e5	0.62	NO	0.942	10.000	31.085	31.08	1.001	1.000	82.417		0.112	82.4
3	3 1,2,3,4,7,8-HxCDD	2.52e5	1.24	NO	1.06	10.000	34.452	34.45	1.000	1.000	87.107		0.274	87.1
4	4 1,2,3,6,7,8-HxCDD	2.83e5	1.25	NO	0.915	10.000	34.548	34.56	1.000	1.000	89.422		0.295	89.4
5	5 1,2,3,7,8,9-HxCDD	2.44e5	1.20	NO	0.915	10.000	34.835	34.83	1.000	1.000	89.056		0.353	89.1
6	6 1,2,3,4,6,7,8-HpCDD	1.72e5	1.03	NO	0.898	10.000	38.319	38.33	1.000	1.001	89.584		0.436	89.6
7	7 OCDD	2.70e5	0.89	NO	0.933	10.000	41.311	41.32	1.000	1.000	179.05		0.331	179
8	8 2,3,7,8-TCDF	9.52e4	0.74	NO	0.787	10.000	25.027	25.03	1.001	1.001	17.571		0.0743	17.6
9	9 1,2,3,7,8-PeCDF	5.07e5	1.55	NO	0.910	10.000	29.772	29.77	1.001	1.000	87.367		0.162	87.4
10	10 2,3,4,7,8-PeCDF	4.94e5	1.56	NO	0.966	10.000	30.774	30.76	1.001	1.000	85.193		0.158	85.2
11	11 1,2,3,4,7,8-HxCDF	3.13e5	1.24	NO	0.878	10.000	33.579	33.59	1.000	1.000	95.772		0.270	95.8
12	12 1,2,3,6,7,8-HxCDF	3.67e5	1.20	NO	0.874	10.000	33.717	33.72	1.000	1.000	94.730		0.267	94.7
13	13 2,3,4,6,7,8-HxCDF	3.37e5	1.26	NO	0.922	10.000	34.305	34.28	1.001	1.000	97.397		0.290	97.4
14	14 1,2,3,7,8,9-HxCDF	2.32e5	1.22	NO	0.864	10.000	35.166	35.18	1.000	1.000	94.918		0.488	94.9
15	15 1,2,3,4,6,7,8-HpCDF	2.31e5	0.98	NO	0.871	10.000	36.928	36.91	1.001	1.001	97.152		0.413	97.2
16	16 1,2,3,4,7,8,9-HpCDF	1.48e5	0.99	NO	1.01	10.000	38.904	38.92	1.000	1.000	96.862		0.590	96.9
17	17 OCDF	2.69e5	0.87	NO	0.802	10.000	41.492	41.50	1.000	1.000	188.45		0.304	188
18	18 13C-2,3,7,8-TCDD	1.11e6	0.76	NO	1.16	10.000	25.938	25.96	1.026	1.027	203.53	102	0.228	
19	19 13C-1,2,3,7,8-PeCDD	8.44e5	0.63	NO	0.847	10.000	31.013	31.06	1.227	1.229	211.36	106	0.312	
20	20 13C-1,2,3,4,7,8-HxCDD	5.44e5	1.27	NO	0.750	10.000	34.452	34.44	1.014	1.014	204.03	102	0.582	
21	21 13C-1,2,3,6,7,8-HxCDD	6.93e5	1.27	NO	0.963	10.000	34.564	34.55	1.017	1.017	202.44	101	0.453	
22	22 13C-1,2,3,7,8,9-HxCDD	5.99e5	1.27	NO	0.838	10.000	34.832	34.83	1.025	1.025	201.06	101	0.521	
23	23 13C-1,2,3,4,6,7,8-HpCDD	4.29e5	1.05	NO	0.641	10.000	38.318	38.31	1.128	1.128	187.91	94.0	0.474	
24	24 13C-OCDD	6.46e5	0.84	NO	0.586	10.000	41.308	41.31	1.216	1.216	309.64	77.4	0.703	
25	25 13C-2,3,7,8-TCDF	1.38e6	0.78	NO	1.03	10.000	25.001	25.00	0.989	0.989	181.47	90.7	0.377	
26	26 13C-1,2,3,7,8-PeCDF	1.28e6	1.63	NO	0.845	10.000	29.706	29.75	1.176	1.177	205.86	103	0.676	
27	27 13C-2,3,4,7,8-PeCDF	1.20e6	1.59	NO	0.814	10.000	30.694	30.74	1.215	1.217	200.96	100	0.702	
28	28 13C-1,2,3,4,7,8-HxCDF	7.45e5	0.51	NO	1.00	10.000	33.592	33.58	0.989	0.988	208.44	104	0.637	
29	29 13C-1,2,3,6,7,8-HxCDF	8.86e5	0.51	NO	1.14	10.000	33.715	33.71	0.992	0.992	219.19	110	0.563	
30	30 13C-2,3,4,6,7,8-HxCDF	7.50e5	0.50	NO	1.02	10.000	34.282	34.27	1.009	1.009	206.39	103	0.626	
31	31 13C-1,2,3,7,8,9-HxCDF	5.65e5	0.50	NO	0.845	10.000	35.172	35.17	1.035	1.035	187.96	94.0	0.757	

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-2.qld

Last Altered: Wednesday, May 06, 2020 9:30:15 AM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:59:29 PM Pacific Daylight Time

Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	5.45e5	0.43	NO	0.771	10.000	36.901	36.89	1.086	1.086	198.73	99.4	0.541	
33	13C-1,2,3,4,7,8,9-HpCDF	3.02e5	0.43	NO	0.482	10.000	38.909	38.90	1.145	1.145	175.97	88.0	0.865	
34	13C-OCDF	7.12e5	0.87	NO	0.669	10.000	41.477	41.49	1.221	1.221	299.57	74.9	0.446	
35	37Cl-2,3,7,8-TCDD	4.04e5			1.10	10.000	25.969	25.98	1.028	1.028	78.014	97.5	0.0553	
36	13C-1,2,3,4-TCDD	9.42e5	0.79	NO	1.00	10.000	25.350	25.27	1.000	1.000	200.00	100	0.264	
37	13C-1,2,3,4-TCDF	1.47e6	0.79	NO	1.00	10.000	23.560	23.49	1.000	1.000	200.00	100	0.390	
38	13C-1,2,3,4,6,9-HxCDF	7.11e5	0.51	NO	1.00	10.000	34.000	33.97	1.000	1.000	200.00	100	0.640	

Dataset: Untitled

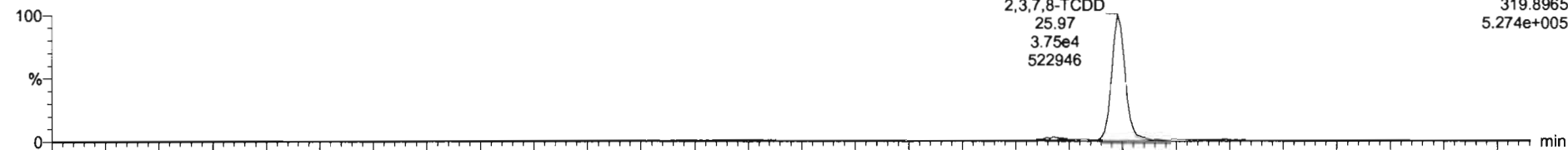
Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

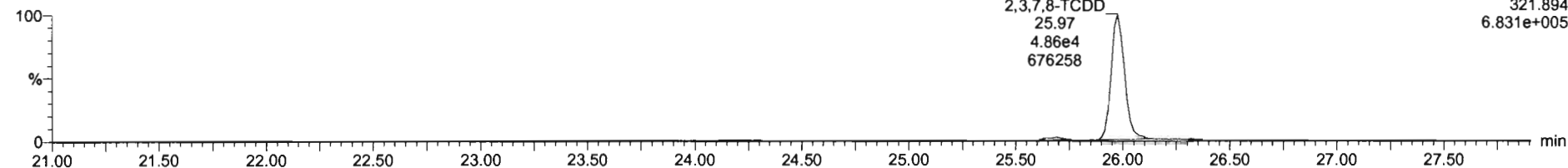
Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

2,3,7,8-TCDD

200506R1_2

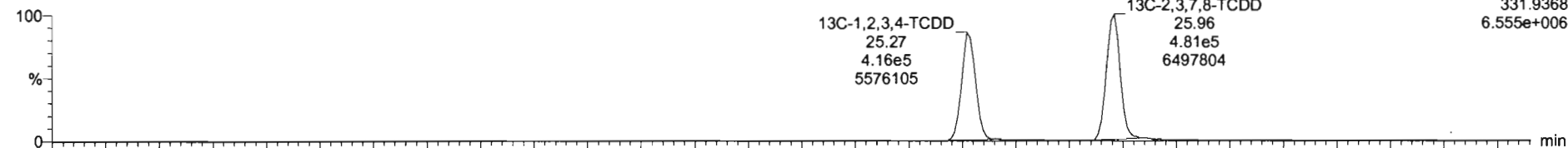


200506R1_2

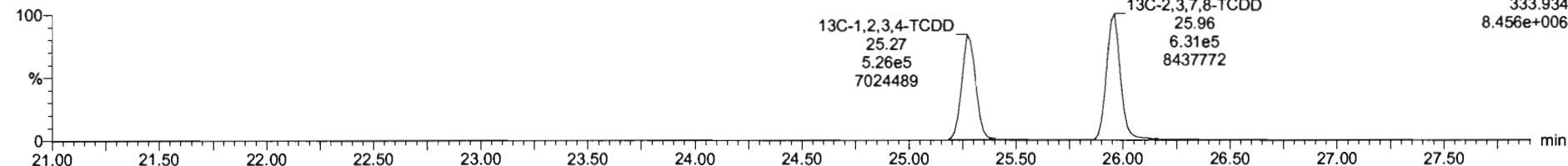


13C-2,3,7,8-TCDD

200506R1_2



200506R1_2



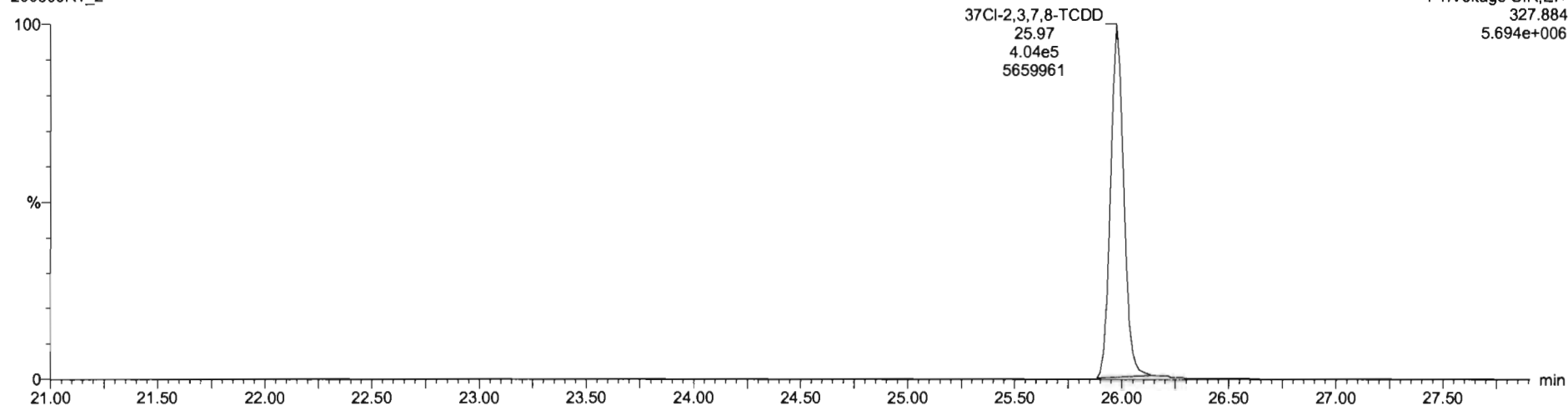
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Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

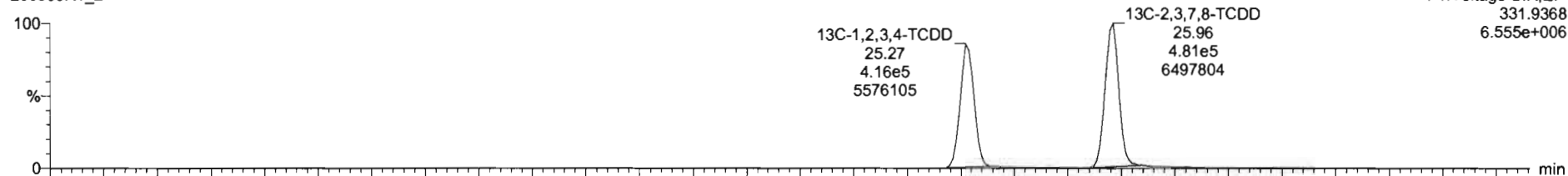
37Cl-2,3,7,8-TCDD

200506R1_2

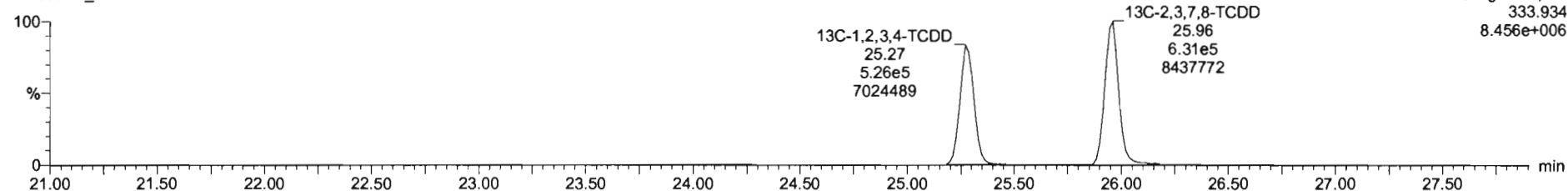


13C-1,2,3,4-TCDD

200506R1_2



200506R1_2



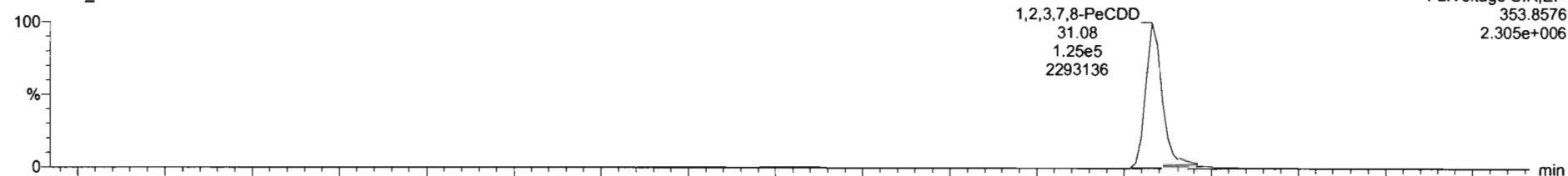
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Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

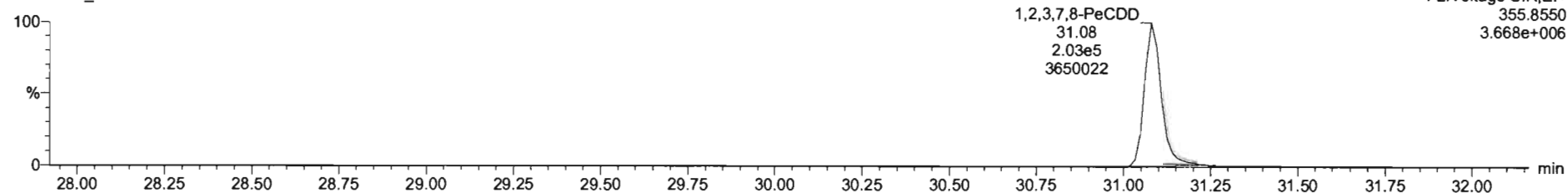
Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

1,2,3,7,8-PeCDD

200506R1_2

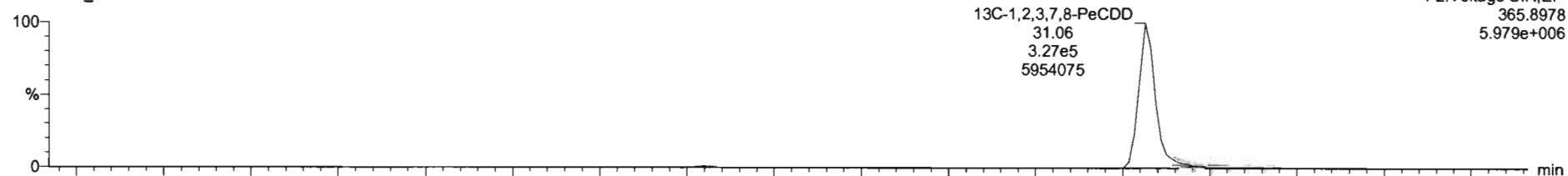


200506R1_2

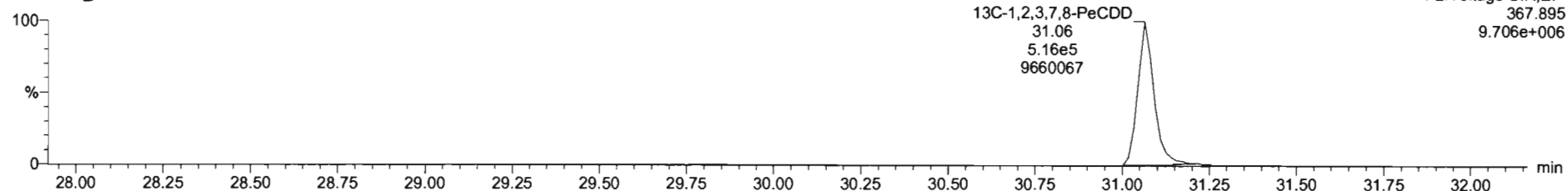


13C-1,2,3,7,8-PeCDD

200506R1_2



200506R1_2



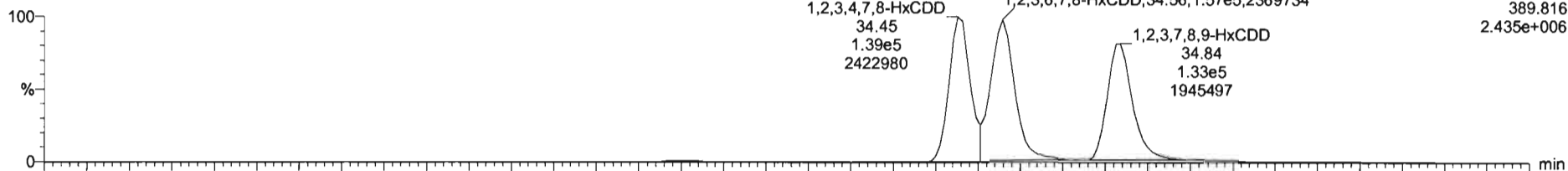
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Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

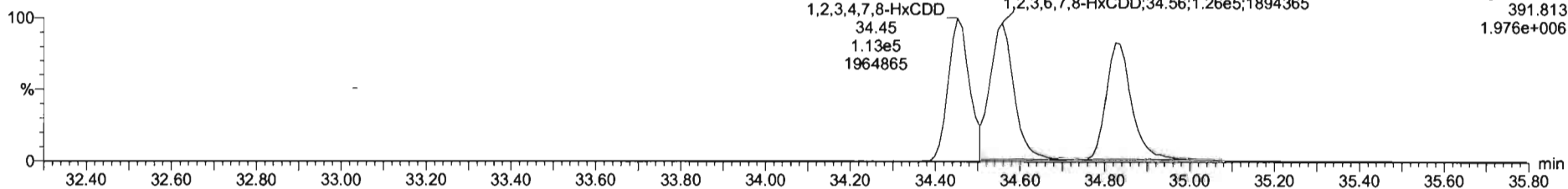
Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

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

200506R1_2

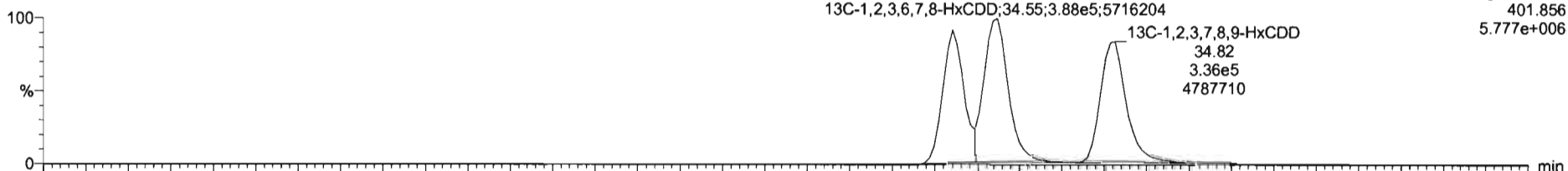


200506R1_2

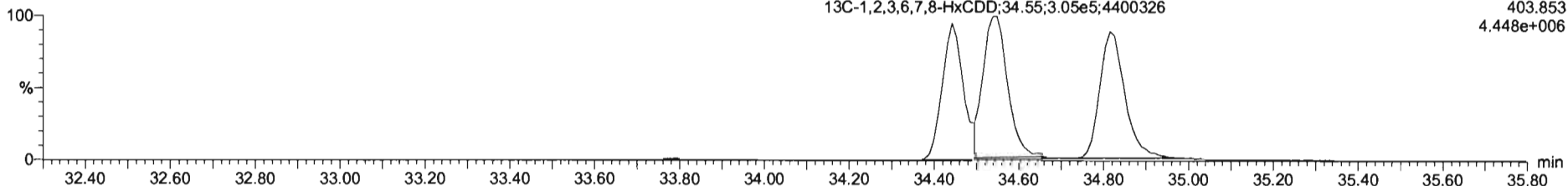


13C-1,2,3,4,7,8-HxCDD

200506R1_2



200506R1_2



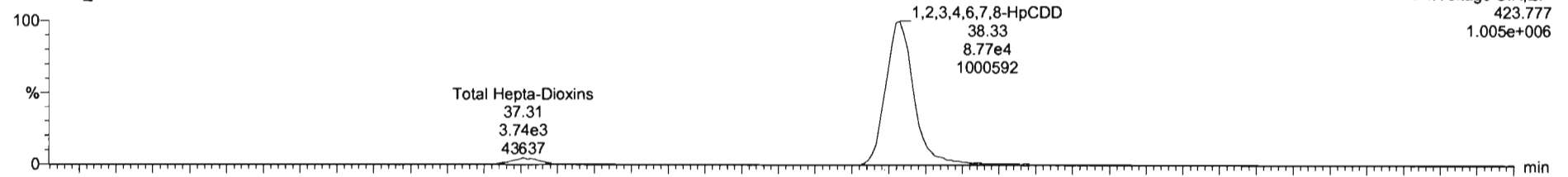
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Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

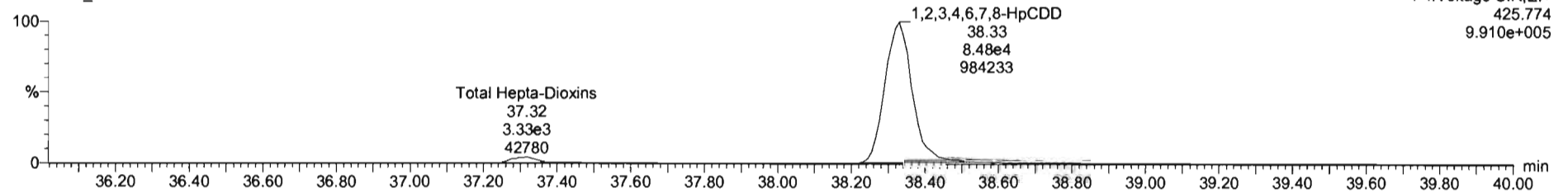
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1,2,3,4,6,7,8-HpCDD

200506R1_2

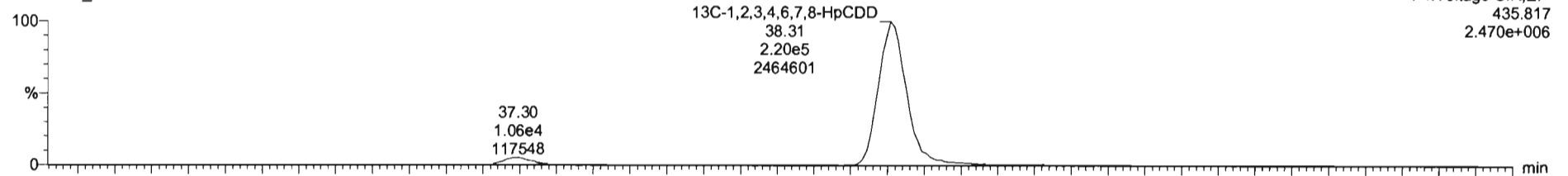


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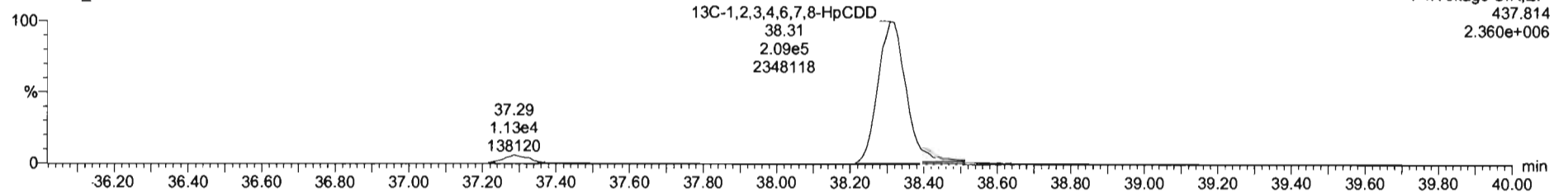


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200506R1_2



200506R1_2



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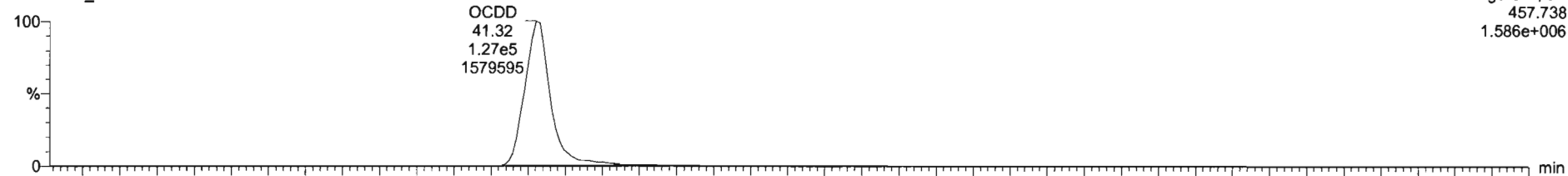
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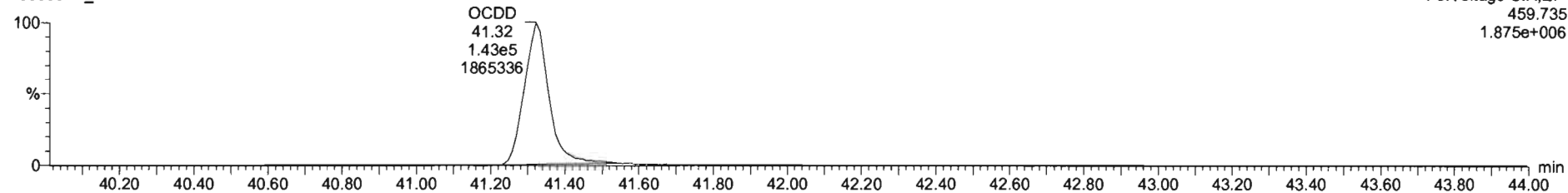
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OCDD

200506R1_2

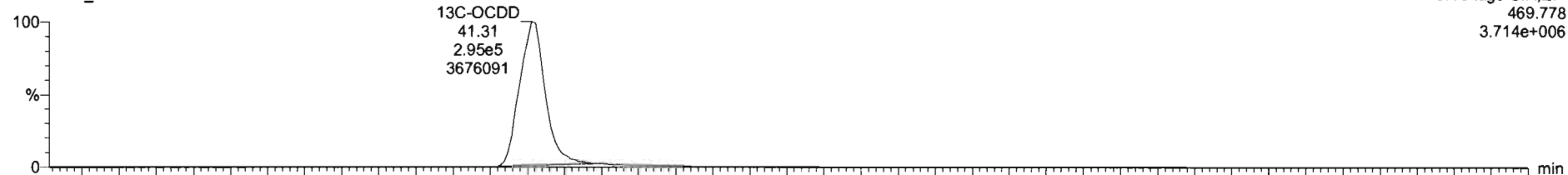


200506R1_2

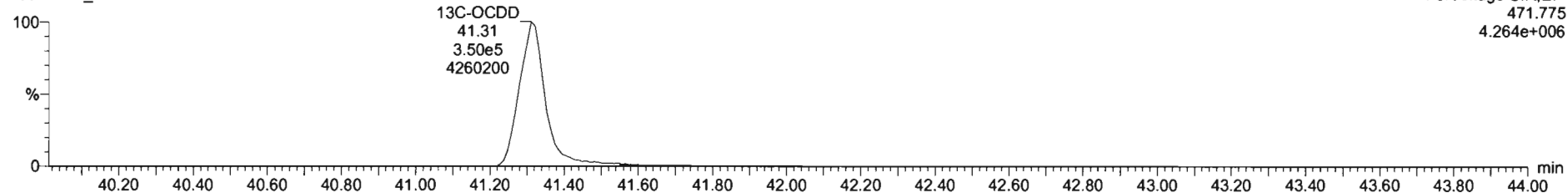


13C-OCDD

200506R1_2



200506R1_2



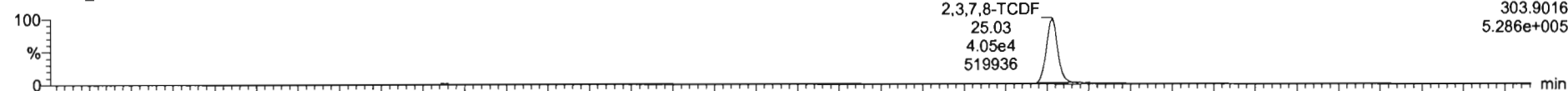
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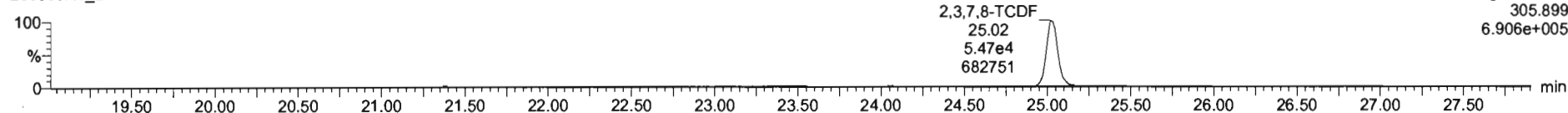
Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

2,3,7,8-TCDF

200506R1_2

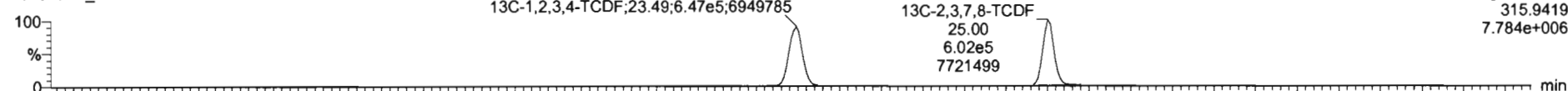


200506R1_2

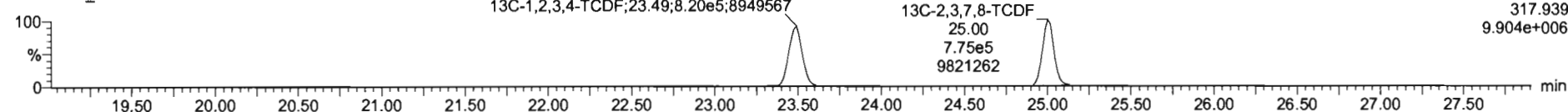


13C-2,3,7,8-TCDF

200506R1_2

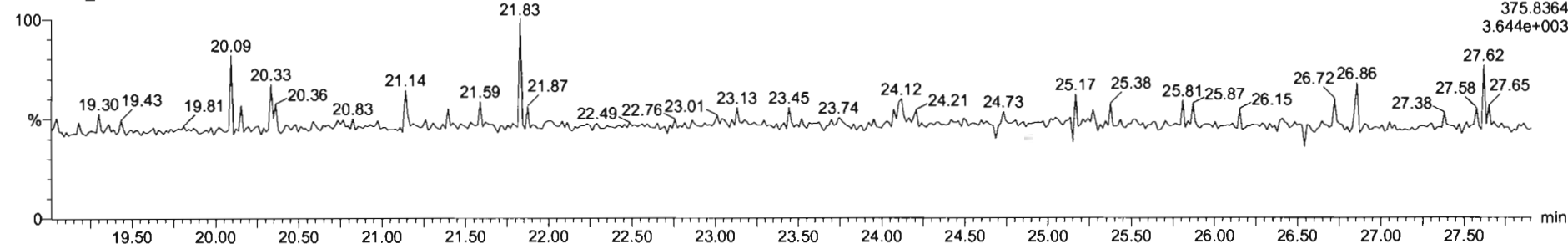


200506R1_2



DPE1

200506R1_2



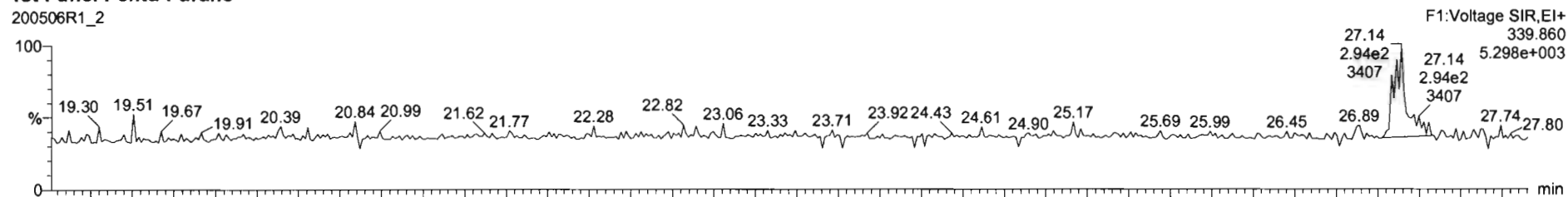
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Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

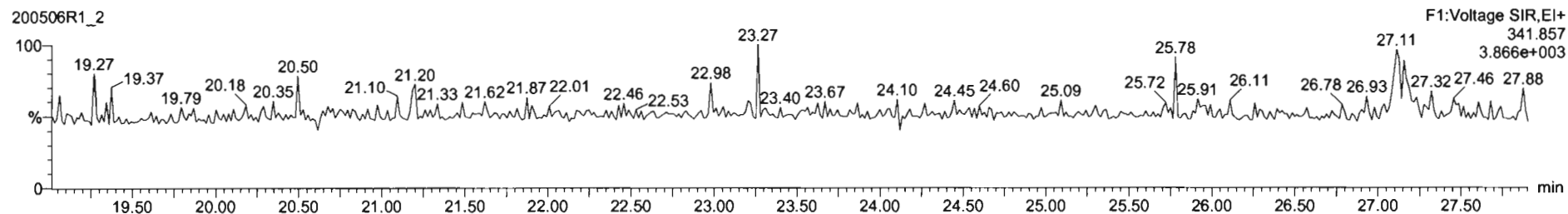
Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR

1st Func. Penta-Furans

200506R1_2

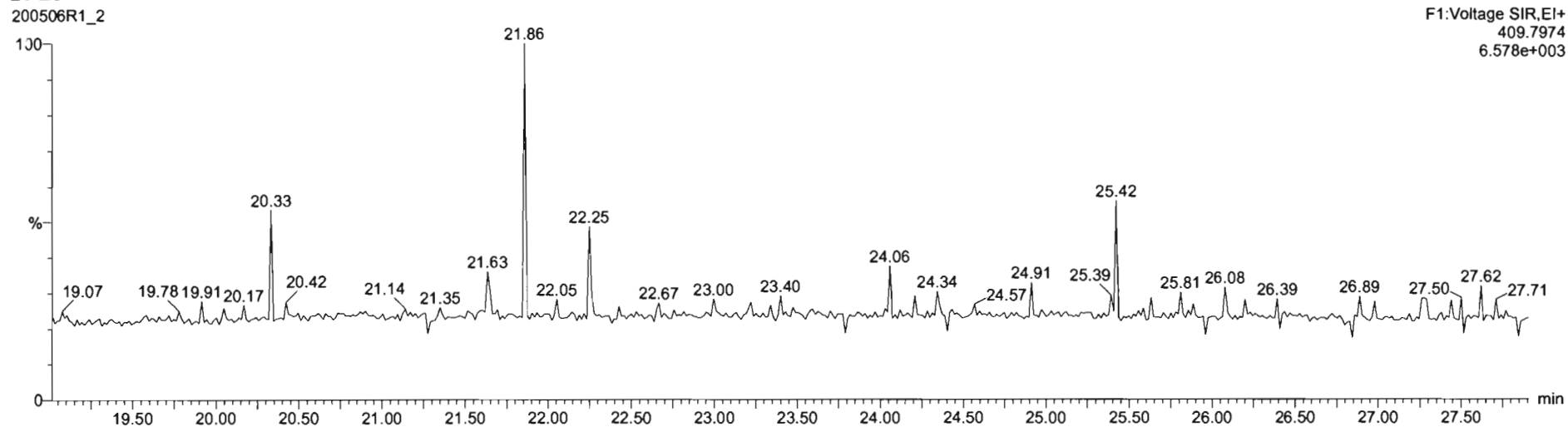


200506R1_2



DPE6

200506R1_2



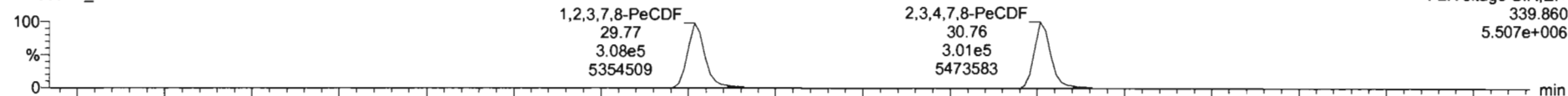
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Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

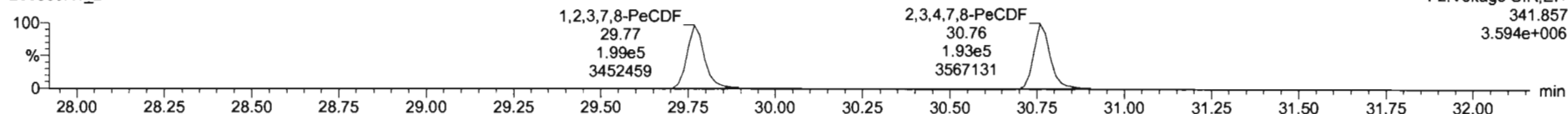
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1,2,3,7,8-PeCDF

200506R1_2

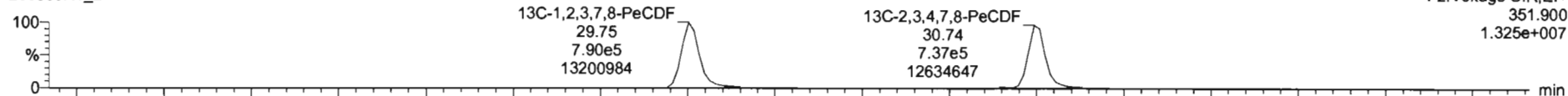


200506R1_2

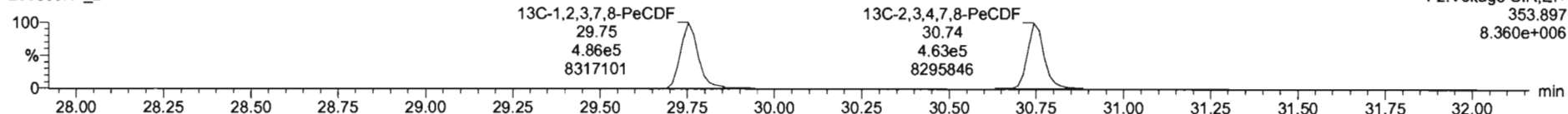


13C-1,2,3,7,8-PeCDF

200506R1_2

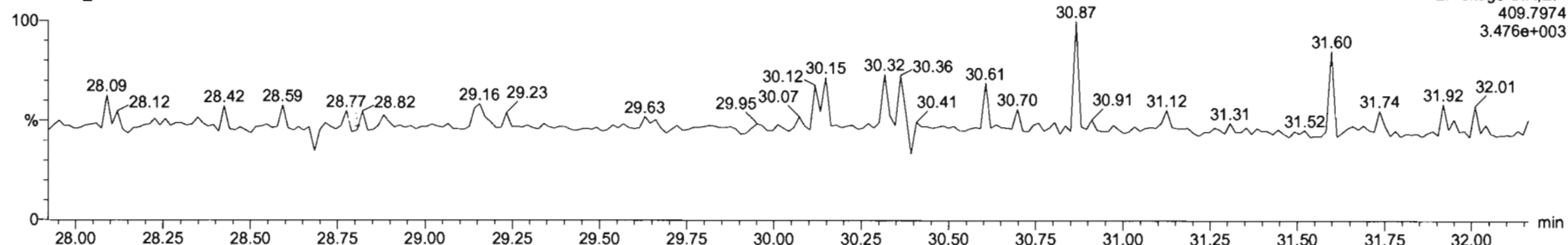


200506R1_2



DPE2

200506R1_2



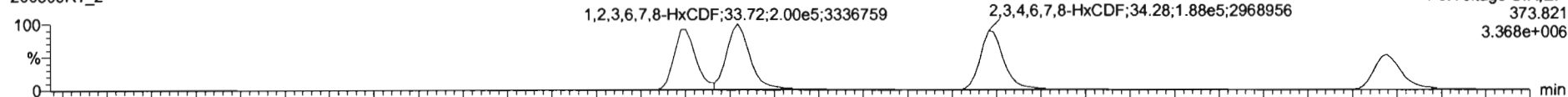
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Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

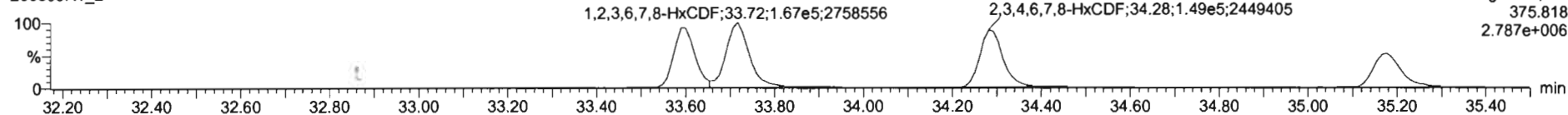
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1,2,3,4,7,8-HxCDF

200506R1_2

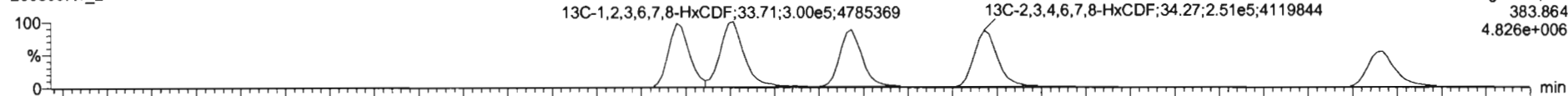


200506R1_2

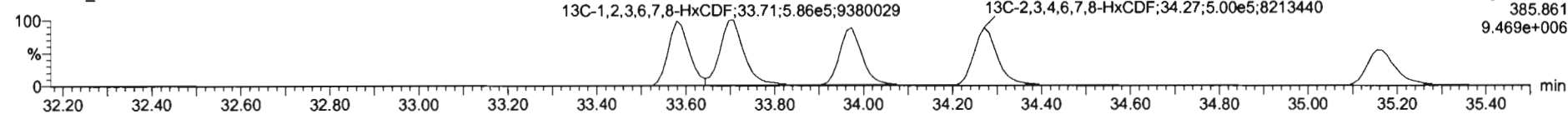


13C-1,2,3,4,7,8-HxCDF

200506R1_2

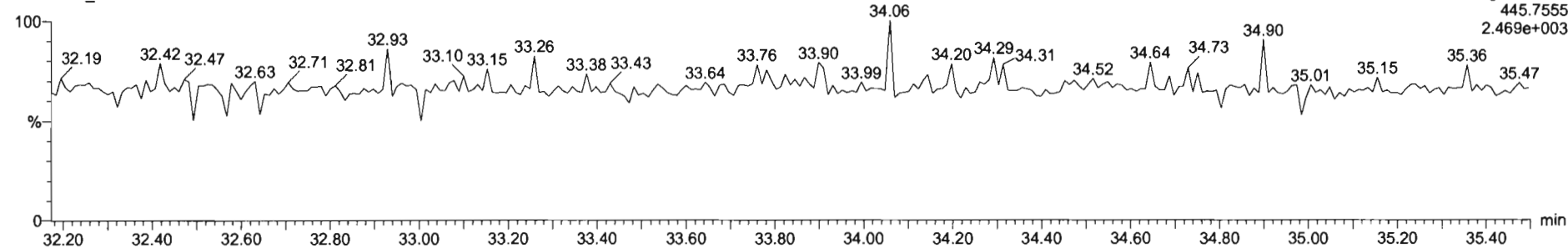


200506R1_2



DPE3

200506R1_2



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

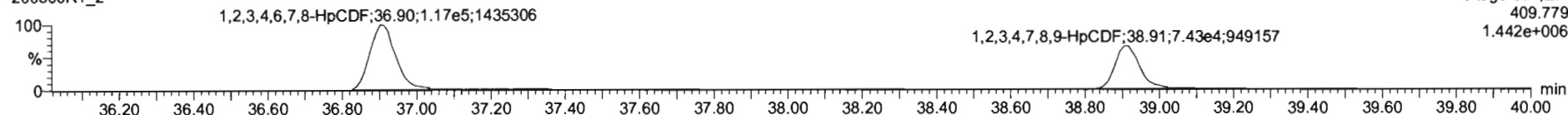
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1,2,3,4,6,7,8-HpCDF

200506R1_2

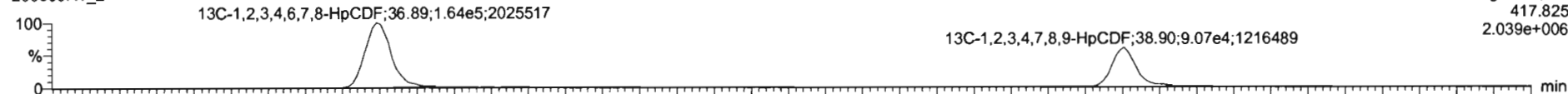


200506R1_2

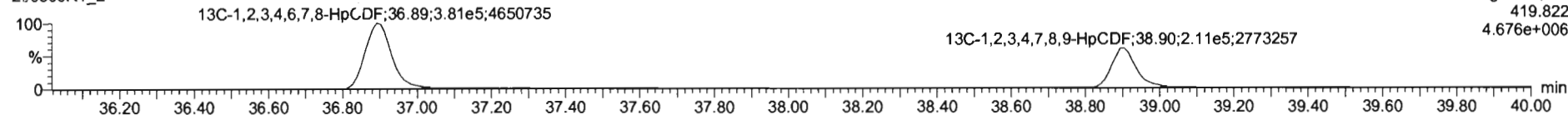


13C-1,2,3,4,6,7,8-HpCDF

200506R1_2

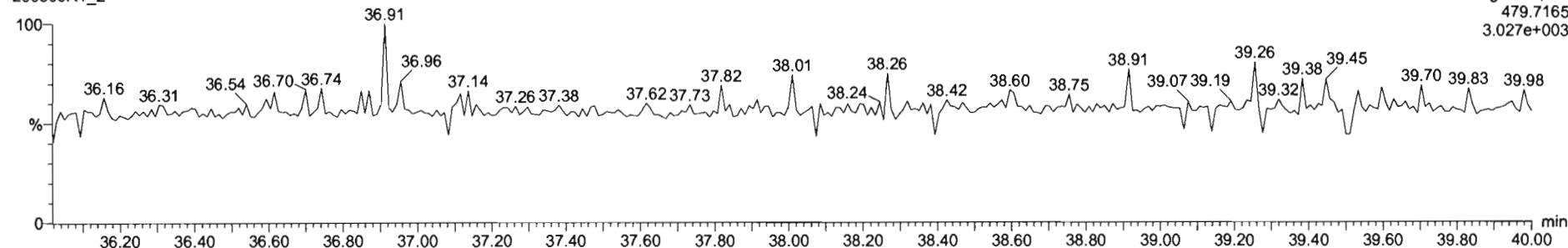


200506R1_2



DPE4

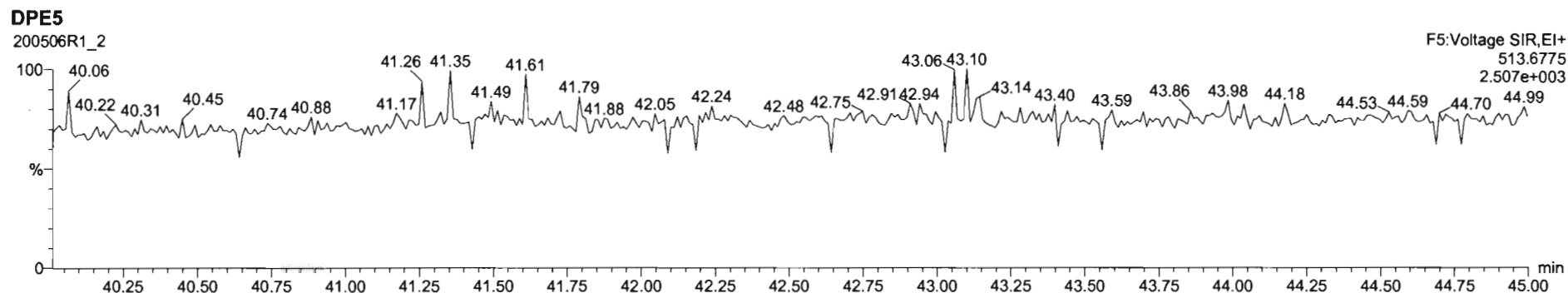
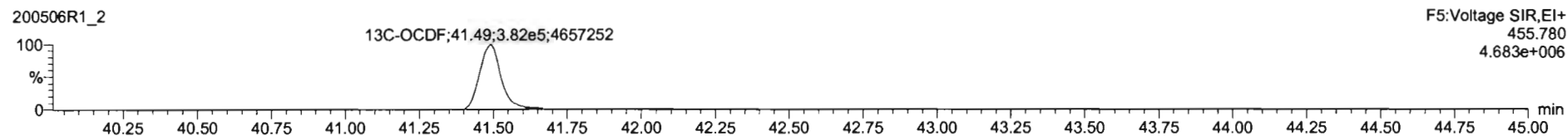
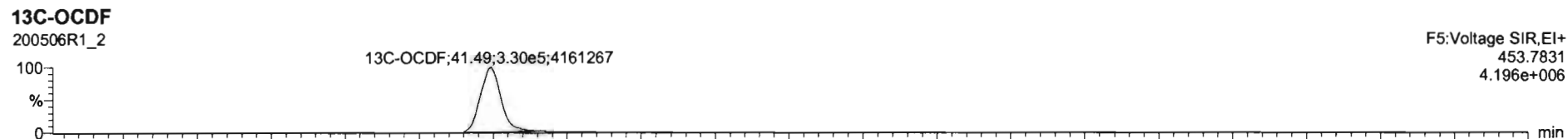
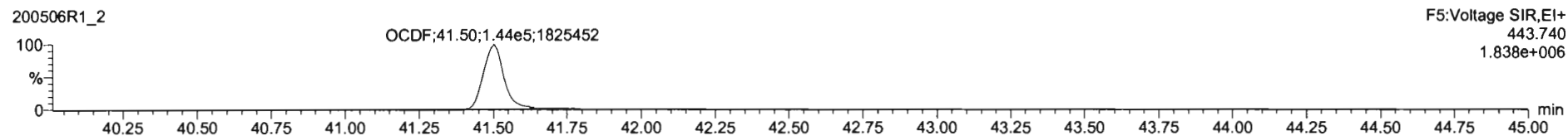
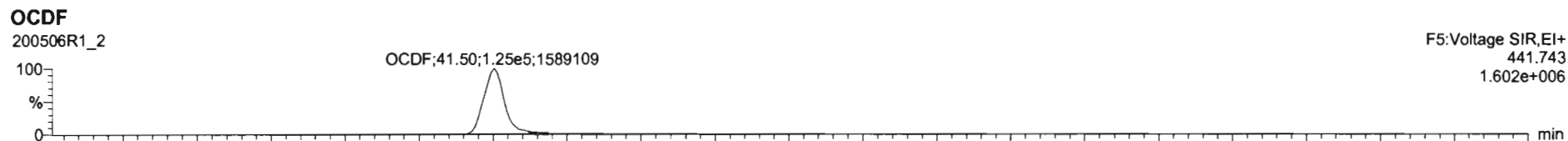
200506R1_2



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

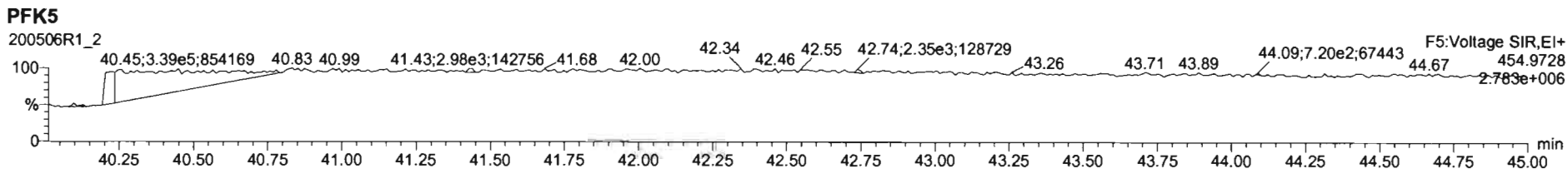
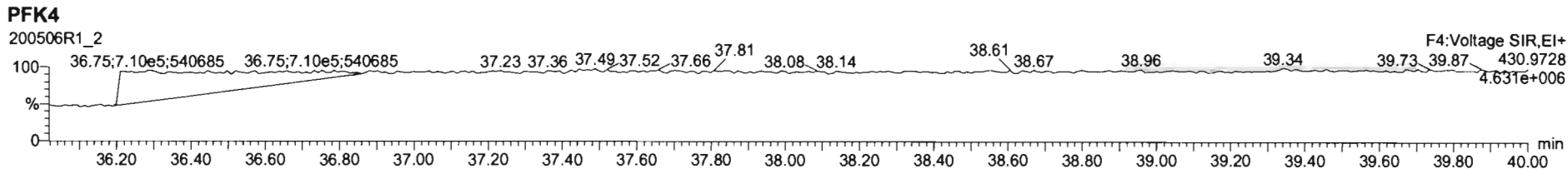
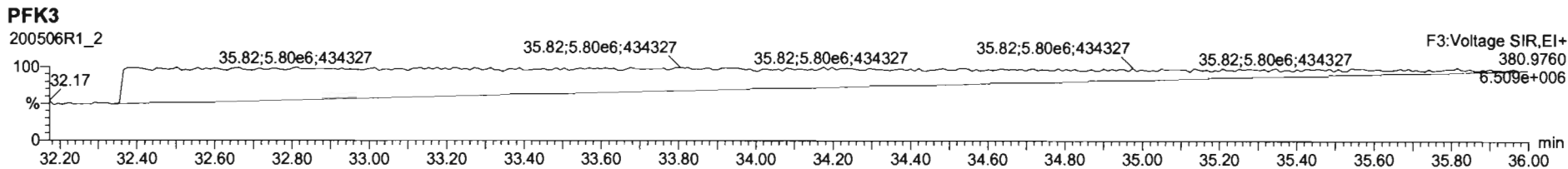
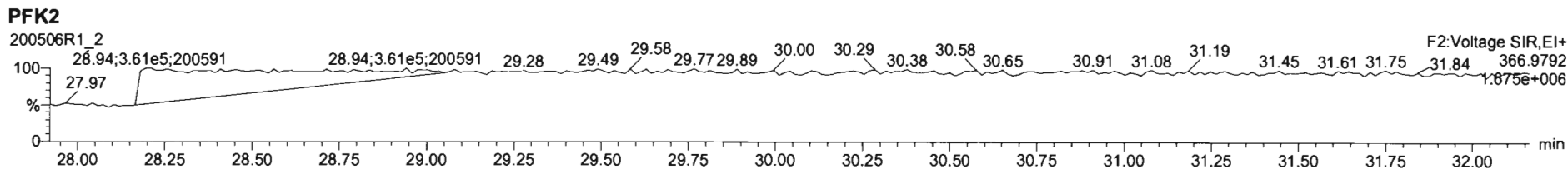
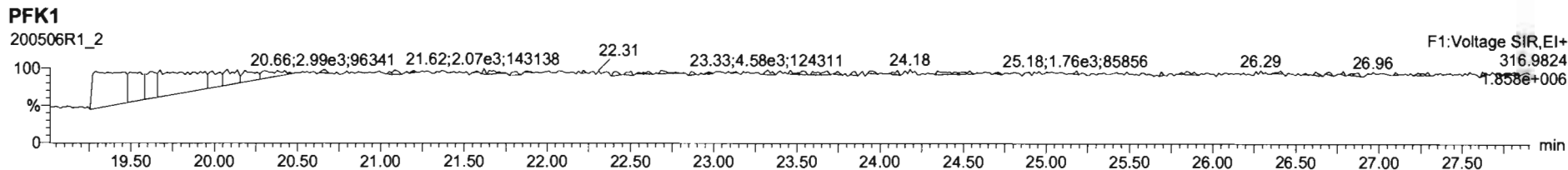
Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR



Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 1:51:07 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 1:51:20 PM Pacific Daylight Time

Name: 200506R1_2, Date: 06-May-2020, Time: 08:43:47, ID: B0E0015-BS1 OPR 10, Description: OPR



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-11.qld

Last Altered: Monday, May 18, 2020 10:29:52 Pacific Daylight Time

Printed: Monday, May 18, 2020 10:50:03 Pacific Daylight Time

ely 05-18-2020
05/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

#	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	0.947	10.073	26.096		1.001				0.0500	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.073	31.162		1.001				0.0622	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.073	34.526		1.000				0.0484	
4	4 1,2,3,6,7,8-HxCDD	1.00e3	1.28	NO	0.915	10.073	34.623	34.64	1.000	1.001	0.17776		0.0475	0.178
5	5 1,2,3,7,8,9-HxCDD	8.81e2	1.52	YES	0.915	10.073	34.910	34.92	1.000	1.001	0.15646		0.0498	0.139
6	6 1,2,3,4,6,7,8-HpCDD	2.32e4	1.03	NO	0.898	10.073	38.415	38.42	1.000	1.001	5.1507		0.0818	5.15
7	7 OCDD	2.22e5	0.89	NO	0.933	10.073	41.386	41.40	1.000	1.000	52.361		0.107	52.4
8	8 2,3,7,8-TCDF	1.35e3	0.78	NO	0.787	10.073	25.161	25.14	1.001	1.000	0.21701		0.0519	0.217
9	9 1,2,3,7,8-PeCDF	1.03e3	1.25	YES	0.910	10.073	29.849	29.83	1.001	1.000	0.13543		0.0396	0.124
10	10 2,3,4,7,8-PeCDF	6.41e2	1.68	NO	0.966	10.073	30.850	30.85	1.001	1.001	0.084597		0.0373	0.0846
11	11 1,2,3,4,7,8-HxCDF	1.81e3	1.15	NO	0.878	10.073	33.653	33.66	1.000	1.000	0.32194		0.0309	0.322
12	12 1,2,3,6,7,8-HxCDF	5.66e2	0.77	YES	0.874	10.073	33.781	33.78	1.000	1.000	0.090543		0.0304	0.0709
13	13 2,3,4,6,7,8-HxCDF	3.48e2	1.39	NO	0.922	10.073	34.380	34.37	1.001	1.001	0.054329		0.0300	0.0543
14	14 1,2,3,7,8,9-HxCDF	3.29e2	1.06	NO	0.864	10.073	35.240	35.26	1.000	1.001	0.066146		0.0438	0.0661
15	15 1,2,3,4,6,7,8-HpCDF	4.22e3	1.02	NO	0.871	10.073	37.013	37.00	1.001	1.001	0.86679		0.0425	0.867
16	16 1,2,3,4,7,8,9-HpCDF	3.17e2	0.81	YES	1.01	10.073	38.979	39.00	1.000	1.001	0.080807		0.0468	0.0711
17	17 OCDF	1.22e4	0.87	NO	0.802	10.073	41.567	41.58	1.000	1.000	2.8870		0.0578	2.89
18	18 13C-2,3,7,8-TCDD	1.29e6	0.79	NO	1.16	10.073	26.046	26.07	1.026	1.027	139.26	70.1	0.144	
19	19 13C-1,2,3,7,8-PeCDD	1.23e6	0.64	NO	0.847	10.073	31.141	31.14	1.227	1.227	181.04	91.2	0.187	
20	20 13C-1,2,3,4,7,8-HxCDD	1.02e6	1.27	NO	0.750	10.073	34.527	34.52	1.014	1.014	178.66	90.0	0.214	
21	21 13C-1,2,3,6,7,8-HxCDD	1.22e6	1.26	NO	0.963	10.073	34.639	34.62	1.017	1.017	166.70	84.0	0.167	
22	22 13C-1,2,3,7,8,9-HxCDD	1.22e6	1.24	NO	0.838	10.073	34.908	34.90	1.025	1.025	191.88	96.6	0.192	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.98e5	1.05	NO	0.641	10.073	38.402	38.40	1.128	1.128	204.54	103	0.268	
24	24 13C-OCDD	1.81e6	0.95	NO	0.586	10.073	41.398	41.39	1.216	1.216	405.05	102	0.379	
25	25 13C-2,3,7,8-TCDF	1.57e6	0.76	NO	1.03	10.073	25.104	25.14	0.989	0.991	135.06	68.0	0.220	
26	26 13C-1,2,3,7,8-PeCDF	1.65e6	1.59	NO	0.845	10.073	29.829	29.83	1.176	1.175	174.38	87.8	0.215	
27	27 13C-2,3,4,7,8-PeCDF	1.56e6	1.58	NO	0.814	10.073	30.822	30.82	1.215	1.214	170.40	85.8	0.223	
28	28 13C-1,2,3,4,7,8-HxCDF	1.27e6	0.51	NO	1.00	10.073	33.666	33.65	0.989	0.988	166.36	83.8	0.371	
29	29 13C-1,2,3,6,7,8-HxCDF	1.42e6	0.51	NO	1.14	10.073	33.788	33.77	0.992	0.992	164.48	82.8	0.328	
30	30 13C-2,3,4,6,7,8-HxCDF	1.38e6	0.52	NO	1.02	10.073	34.357	34.35	1.009	1.009	177.37	89.3	0.364	
31	31 13C-1,2,3,7,8,9-HxCDF	1.14e6	0.51	NO	0.845	10.073	35.249	35.24	1.035	1.035	177.90	89.6	0.441	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-11.qld

Last Altered: Monday, May 18, 2020 10:29:52 Pacific Daylight Time
Printed: Monday, May 18, 2020 10:50:03 Pacific Daylight Time

Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1.11e6	0.44	NO	0.771	10.073	36.982	36.98	1.086	1.086	189.18	95.3	0.264	
33	13C-1,2,3,4,7,8,9-HpCDF	7.70e5	0.43	NO	0.482	10.073	38.994	38.98	1.145	1.145	209.95	106	0.422	
34	13C-OCDF	2.10e6	0.86	NO	0.669	10.073	41.568	41.57	1.221	1.221	413.01	104	0.233	
35	37Cl-2,3,7,8-TCDD	5.08e5			1.10	10.073	26.076	26.08	1.028	1.028	57.748	72.7	0.0446	
36	13C-1,2,3,4-TCDD	1.59e6	0.80	NO	1.00	10.073	25.350	25.38	1.000	1.000	198.54	100	0.167	
37	13C-1,2,3,4-TCDF	2.23e6	0.79	NO	1.00	10.073	23.560	23.63	1.000	1.000	198.54	100	0.227	
38	13C-1,2,3,4,6,9-HxCDF	1.51e6	0.51	NO	1.00	10.073	34.000	34.05	1.000	1.000	198.54	100	0.373	
39	Total Tetra-Dioxins				0.947	10.073	24.620		0.000		0.00000		0.0323	0.197
40	Total Penta-Dioxins				0.942	10.073	29.960		0.000		0.12756		0.0622	0.178
41	Total Hexa-Dioxins				0.915	10.073	33.635		0.000		2.0908		0.0509	2.23
42	Total Hepta-Dioxins				0.898	10.073	37.640		0.000		14.446		0.0818	14.4
43	Total Tetra-Furans				0.787	10.073	23.610		0.000		0.42657		0.0519	0.517
44	1st Func. Penta-Furans				0.910	10.073	27.090		0.000		0.29284		0.0126	0.293
45	Total Penta-Furans				0.910	10.073	29.275		0.000		0.22531		0.0396	0.349
46	Total Hexa-Furans				0.922	10.073	33.555		0.000		1.3519		0.0320	1.44
47	Total Hepta-Furans				0.871	10.073	37.835		0.000		2.6564		0.0473	2.73

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-11.qld

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Printed: Monday, May 18, 2020 10:50:03 Pacific Daylight Time

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Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.83	4.582e3	5.467e3	2.750e2	2.751e2	1.00	YES	0.000e0	0.00000	0.078931	0.0500
2	Total Tetra-Dioxins	25.80	5.051e3	6.204e3	3.725e2	4.118e2	0.90	YES	0.000e0	0.00000	0.11816	0.0500

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.91	4.239e3	6.033e3	2.908e2	4.528e2	0.64	NO	7.436e2	0.12756	0.12756	0.0622
2	Total Penta-Dioxins	29.39	3.967e3	5.441e3	1.139e2	2.816e2	0.40	YES	0.000e0	0.00000	0.050548	0.0622

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	6.467e4	4.678e4	2.815e3	2.305e3	1.22	NO	5.120e3	0.96295	0.96295	0.0509
2	Total Hexa-Dioxins	33.61	7.057e3	6.320e3	3.038e2	2.523e2	1.20	NO	5.561e2	0.10459	0.10459	0.0509
3	Total Hexa-Dioxins	33.86	3.657e4	3.338e4	2.519e3	1.977e3	1.27	NO	4.495e3	0.84553	0.84553	0.0509
4	1,2,3,6,7,8-HxCDD	34.64	1.153e4	9.014e3	5.612e2	4.386e2	1.28	NO	9.999e2	0.17776	0.17776	0.0475
5	1,2,3,7,8,9-HxCDD	34.92	1.050e4	6.961e3	5.315e2	3.499e2	1.52	YES	8.814e2	0.00000	0.13913	0.0498

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	3.090e5	3.043e5	2.138e4	2.058e4	1.04	NO	4.195e4	9.2950	9.2950	0.0818
2	1,2,3,4,6,7,8-HpCDD	38.42	1.776e5	1.791e5	1.180e4	1.145e4	1.03	NO	2.325e4	5.1507	5.1507	0.0818

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-11.qld

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Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.93	4.344e3	3.408e3	2.619e2	2.492e2	1.05	YES	0.000e0	0.00000	0.070926	0.0519
2	Total Tetra-Furans	21.90	2.451e3	2.387e3	1.621e2	2.262e2	0.72	NO	3.883e2	0.062421	0.062421	0.0519
3	Total Tetra-Furans	24.18	5.233e3	6.849e3	4.255e2	4.897e2	0.87	NO	9.152e2	0.14714	0.14714	0.0519
4	2,3,7,8-TCDF	25.14	8.103e3	1.191e4	5.898e2	7.601e2	0.78	NO	1.350e3	0.21701	0.21701	0.0519
5	Total Tetra-Furans	27.23	1.971e3	1.957e3	7.075e1	6.917e1	1.02	YES	0.000e0	0.00000	0.019682	0.0519

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.22	1.809e4	1.505e4	1.298e3	8.590e2	1.51	NO	2.157e3	0.29284	0.29284	0.0126

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.82	7.997e3	8.225e3	4.902e2	3.209e2	1.53	NO	8.111e2	0.11014	0.11014	0.0396
2	1,2,3,7,8-PeCDF	29.83	1.085e4	9.375e3	5.704e2	4.570e2	1.25	YES	1.027e3	0.00000	0.12369	0.0396
3	2,3,4,7,8-PeCDF	30.85	1.136e4	6.478e3	4.017e2	2.398e2	1.68	NO	6.414e2	0.084597	0.084597	0.0373
4	Total Penta-Furans	30.87	4.464e3	3.247e3	1.316e2	9.353e1	1.41	NO	2.252e2	0.030574	0.030574	0.0396

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.48	8.895e3	7.137e3	3.917e2	3.280e2	1.19	NO	7.197e2	0.11888	0.11888	0.0320
2	Total Hexa-Furans	32.66	2.352e4	2.125e4	1.165e3	1.075e3	1.08	NO	2.240e3	0.37003	0.37003	0.0320
3	Total Hexa-Furans	33.22	2.716e4	2.135e4	1.368e3	1.178e3	1.16	NO	2.546e3	0.42053	0.42053	0.0320
4	1,2,3,4,7,8-HxCDF	33.66	1.729e4	1.585e4	9.687e2	8.422e2	1.15	NO	1.811e3	0.32194	0.32194	0.0309
5	1,2,3,6,7,8-HxCDF	33.78	4.904e3	6.049e3	2.456e2	3.200e2	0.77	YES	5.656e2	0.00000	0.070861	0.0304
6	2,3,4,6,7,8-HxCDF	34.37	4.755e3	3.022e3	2.024e2	1.455e2	1.39	NO	3.479e2	0.054329	0.054329	0.0300
7	1,2,3,7,8,9-HxCDF	35.26	4.714e3	3.543e3	1.692e2	1.599e2	1.06	NO	3.291e2	0.066146	0.066146	0.0438
8	Total Hexa-Furans	35.30	3.325e3	2.546e3	1.078e2	5.901e1	1.83	YES	0.000e0	0.00000	0.021834	0.0320

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-11.qld

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Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.00	3.388e4	3.387e4	2.133e3	2.088e3	1.02	NO	4.221e3	0.86679	0.86679	0.0425
2	Total Hepta-Furans	37.59	5.313e4	5.752e4	3.491e3	3.890e3	0.90	NO	7.382e3	1.7896	1.7896	0.0473
3	1,2,3,4,7,8,9-HpCDF	39.00	2.764e3	4.449e3	1.423e2	1.748e2	0.81	YES	3.171e2	0.00000	0.071134	0.0468

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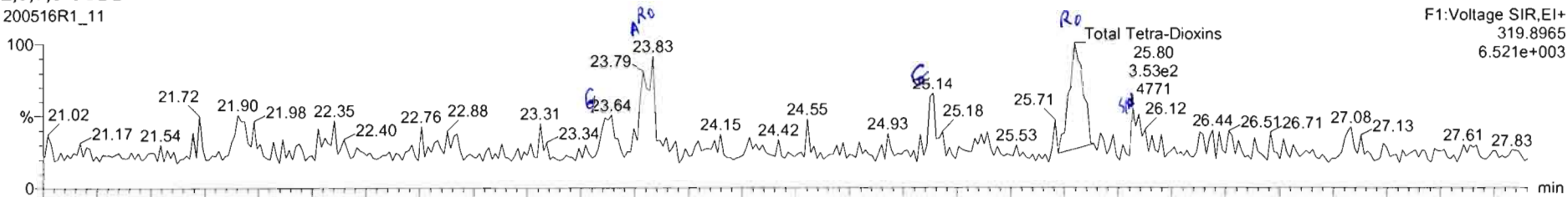
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Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

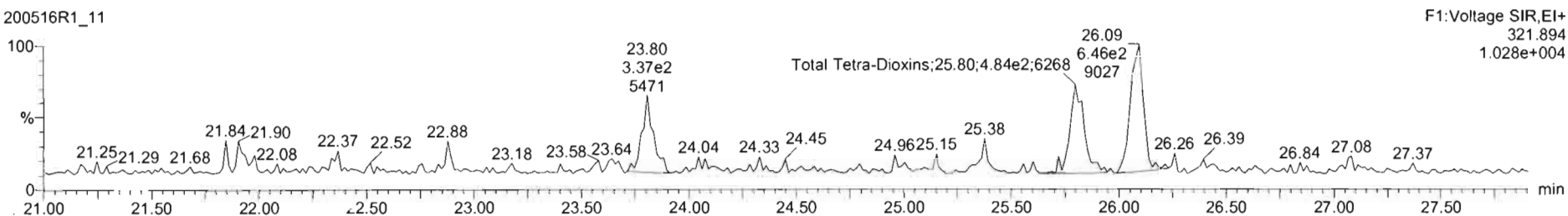
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200516R1_11



F1: Voltage SIR, EI+
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6.521e+003

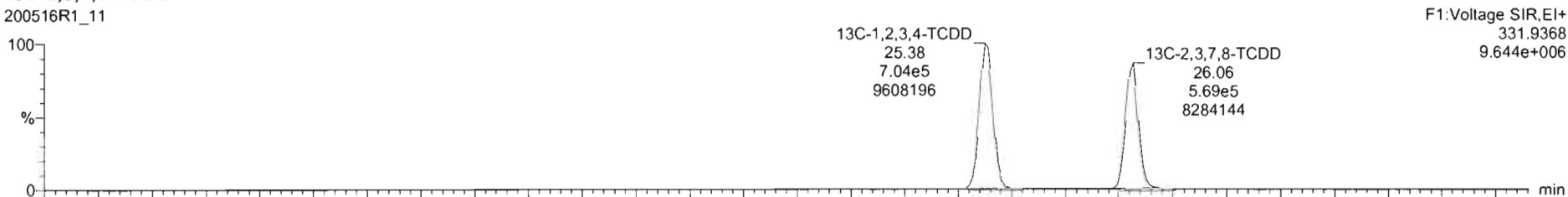
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1.028e+004

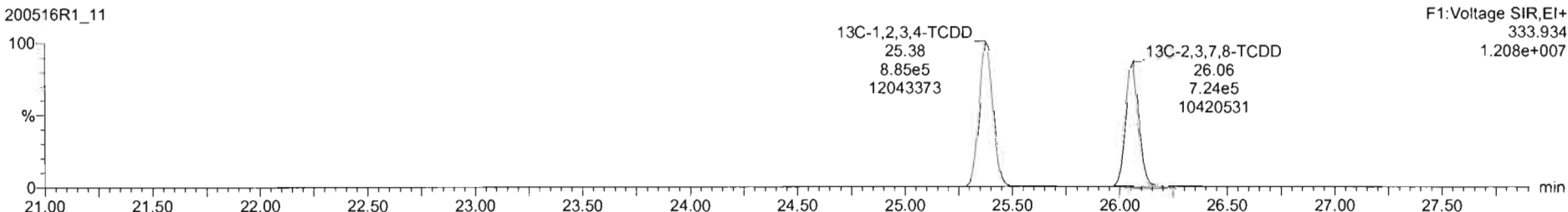
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200516R1_11



F1: Voltage SIR, EI+
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9.644e+006

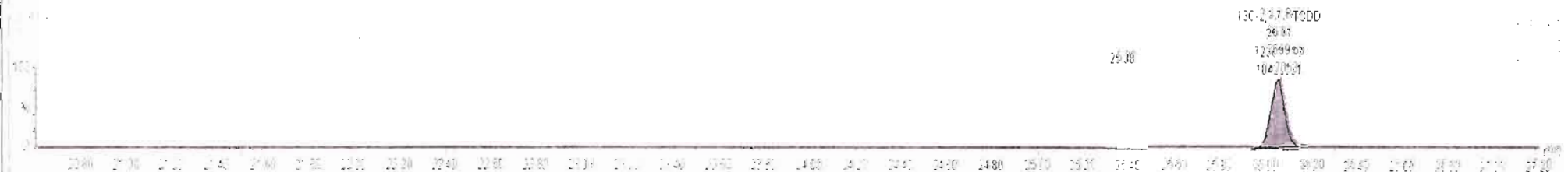
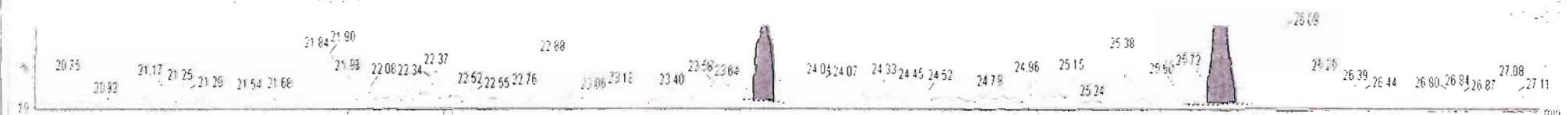
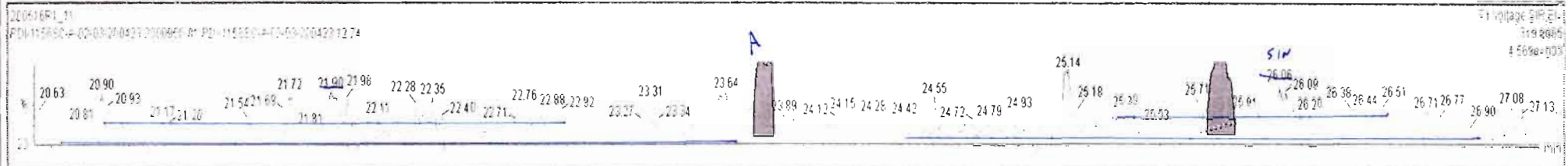
200516R1_11



F1: Voltage SIR, EI+
333.934
1.208e+007

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.073			0.000		0.0323	0.197

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	25.80	3.725e2	4.116e2	0.90	YES	0.11616	0.00000
2 Total Tetra-Dioxins	23.83	2.750e2	2.751e2	1.00	YES	0.078931	0.00000



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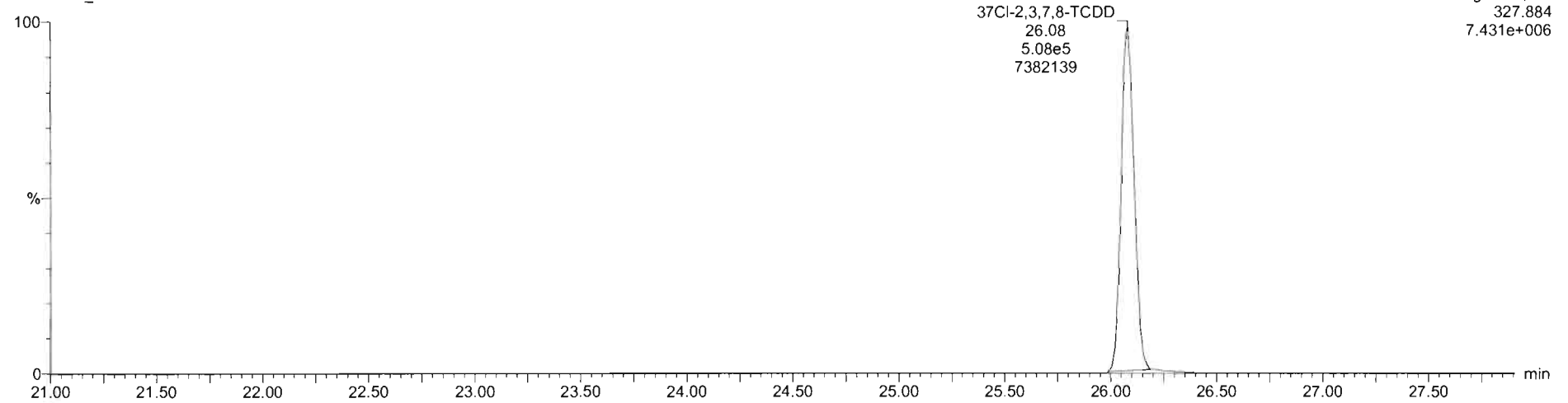
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Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

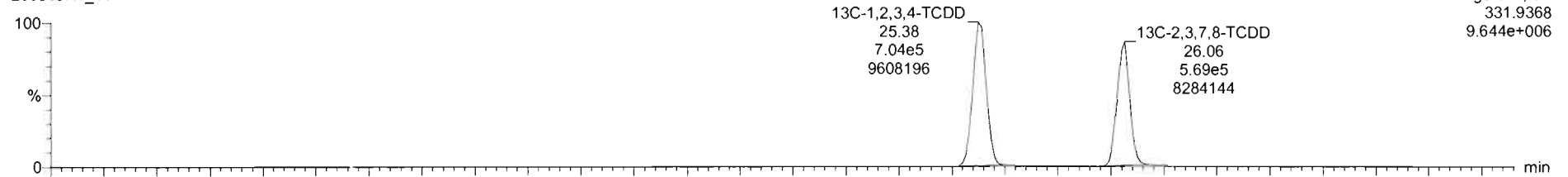
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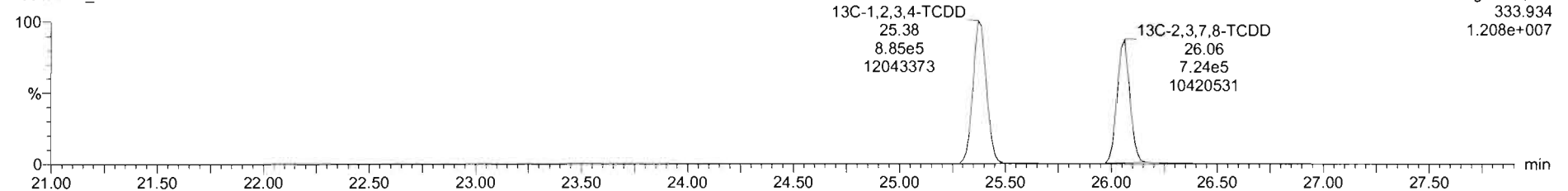


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200516R1_11



200516R1_11



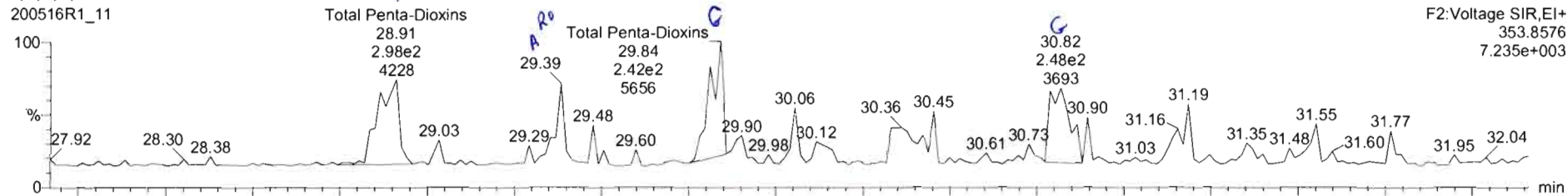
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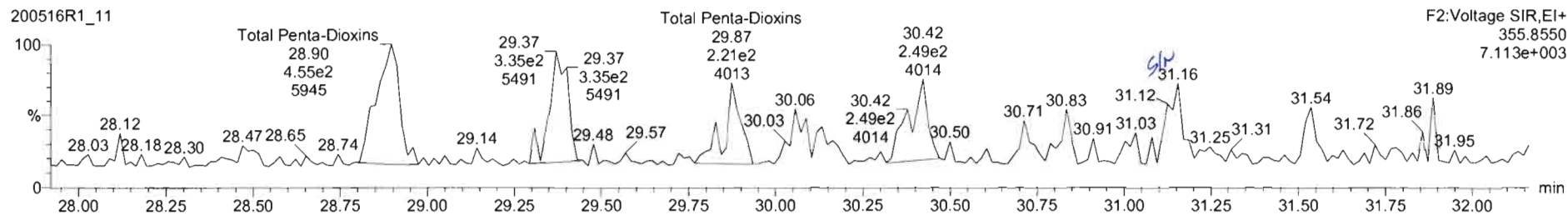
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1,2,3,7,8-PeCDD

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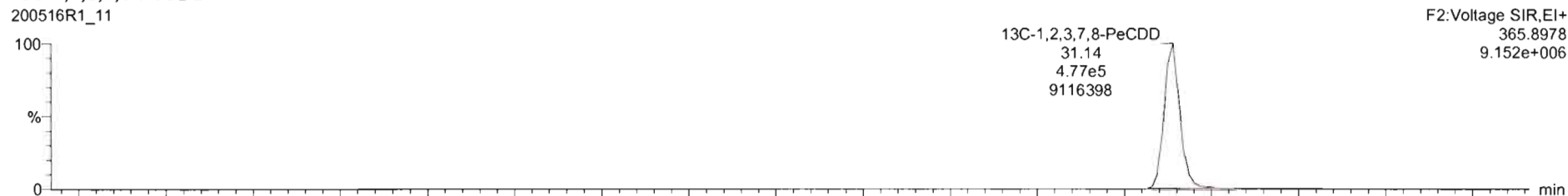


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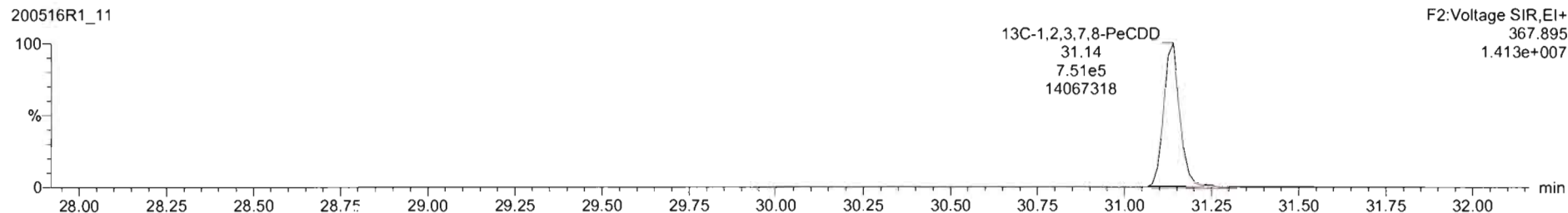


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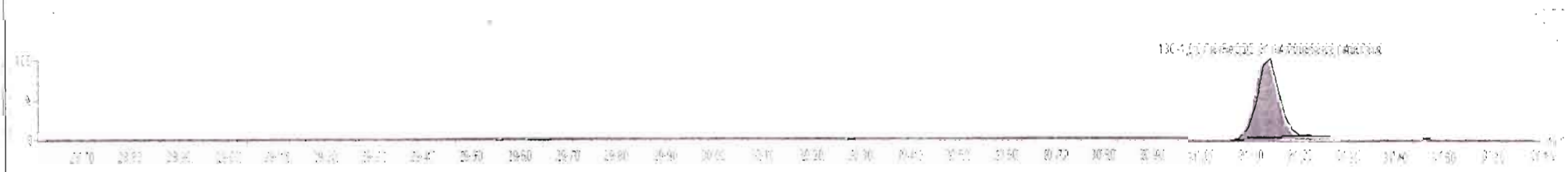
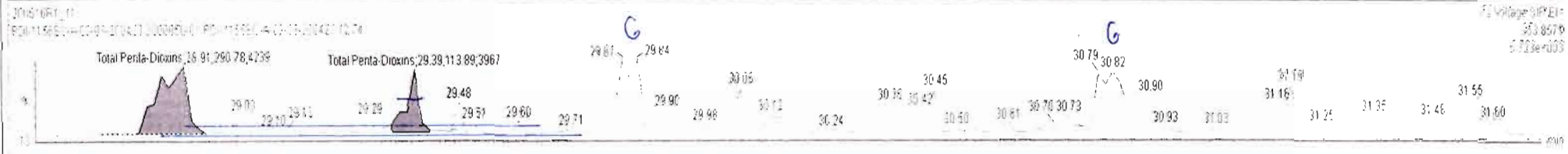


200516R1_11



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.073			0.000	0.0323	0.197	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	26.91	2.908e2	4.528e2	0.64	NO	0.12756	0.12756
2 Total Penta-Dioxins	29.39	1.139e2	2.816e2	0.40	YES	0.050548	0.00000



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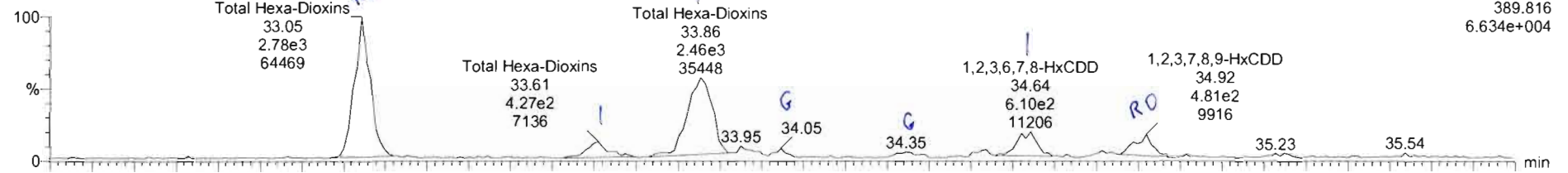
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** July 05-18-2020*

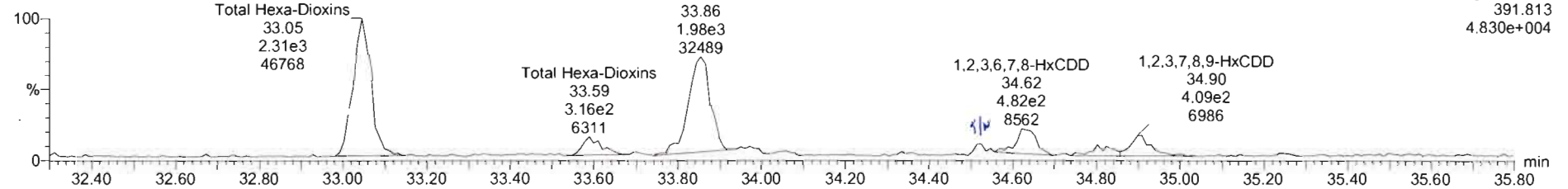
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1,2,3,4,7,8-HxCDD

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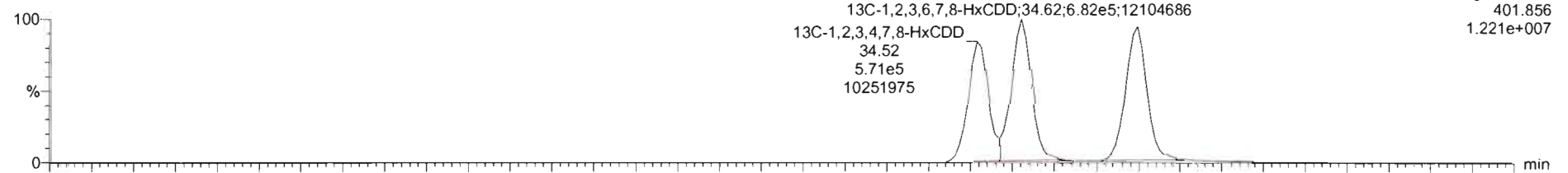


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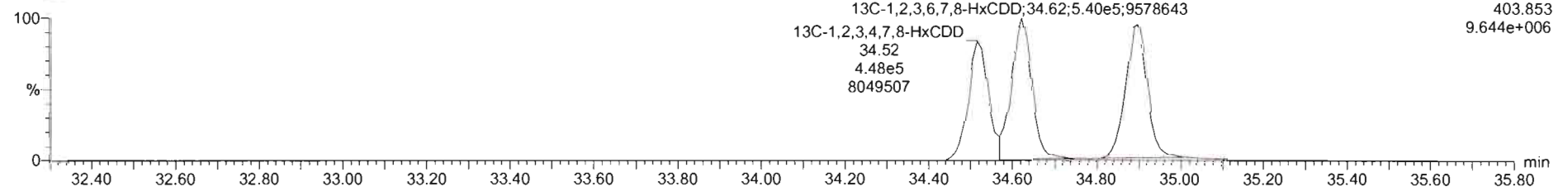


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200516R1_11



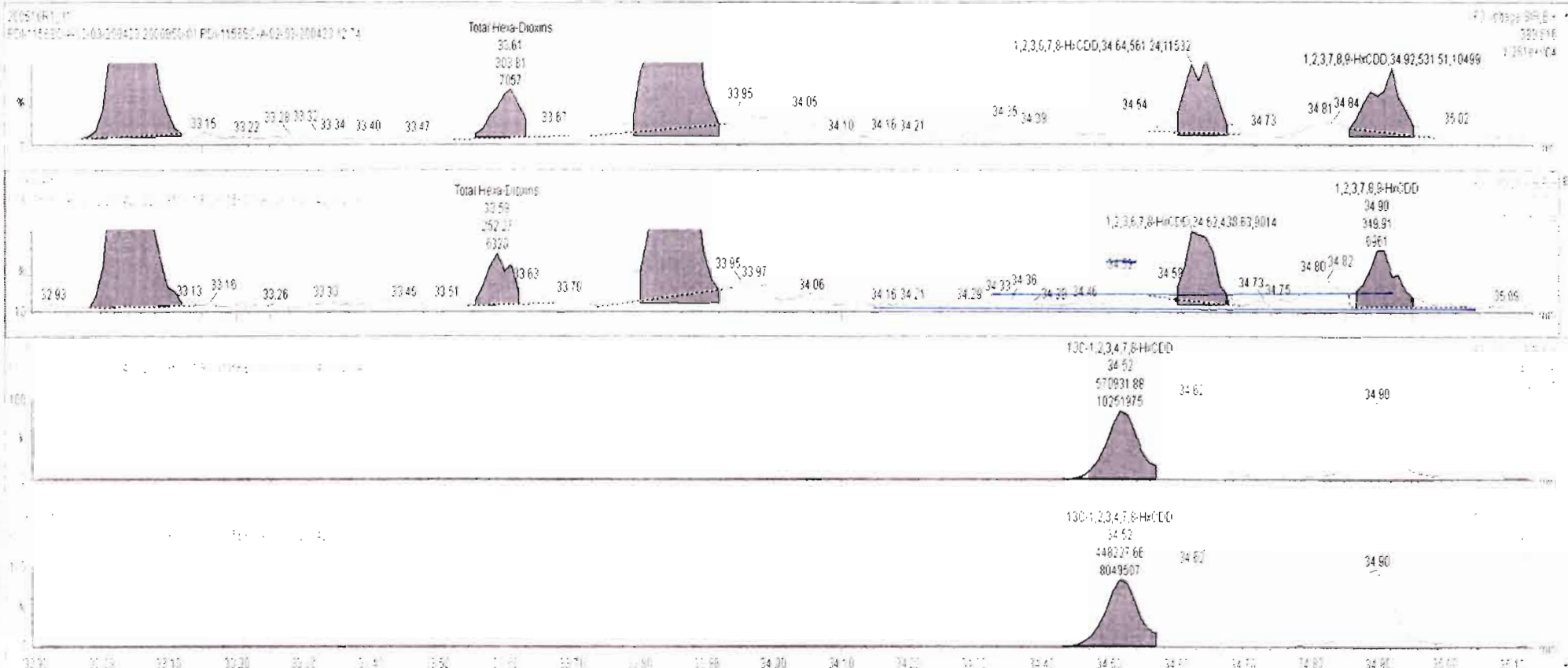
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200516R1_11 - 2000950-01 PDI-1156SC-A-02-03-200423 12.74 - PDI-1156SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	10.073			2.09		0.0609	2.23

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8,9-HxCDD	34.92	5.315e2	3.499e2	1.52	YES	0.13913	0.00000
2 1,2,3,6,7,8-HxCDD	34.64	5.612e2	4.386e2	1.28	NO	0.17776	0.17776
3 Total Hexa-Dioxins	33.96	2.519e3	1.977e3	1.27	NO	0.64553	0.64553
4 Total Hexa-Dioxins	33.61	3.008e2	2.523e2	1.20	NO	0.10459	0.10459
5 Total Hexa-Dioxins	33.05	2.815e3	2.305e3	1.22	NO	0.96295	0.96295



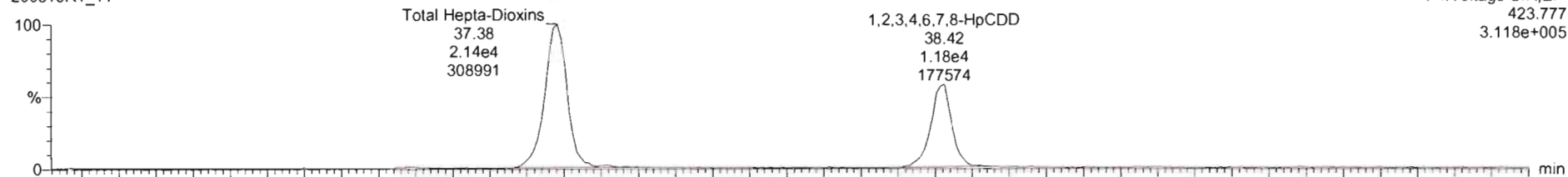
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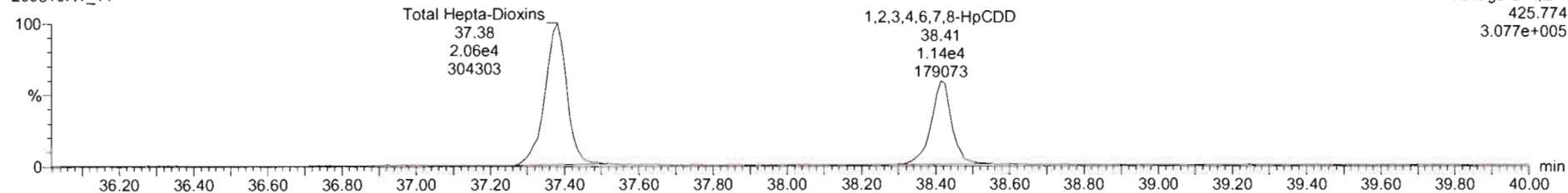
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1,2,3,4,6,7,8-HpCDD

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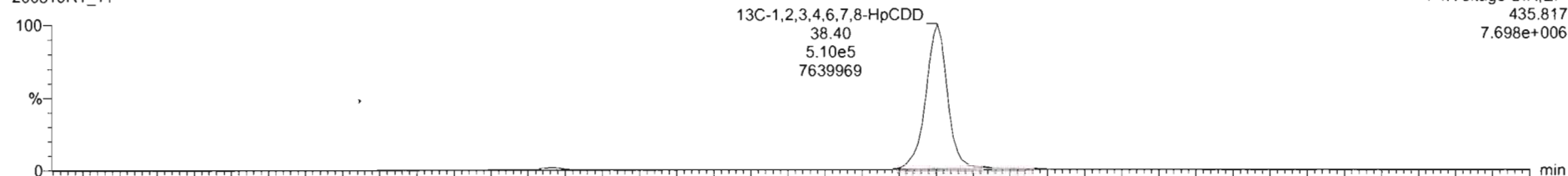


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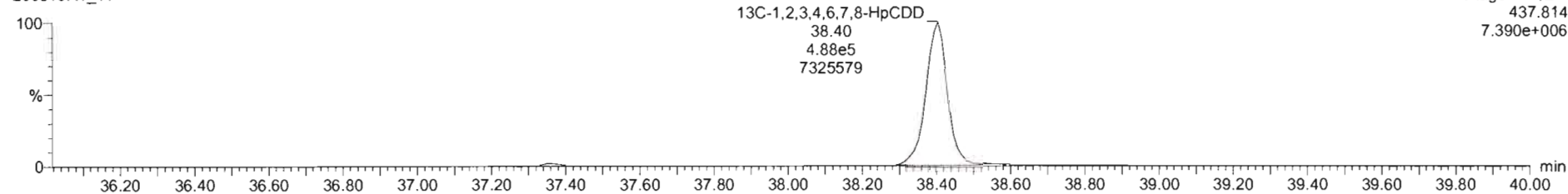


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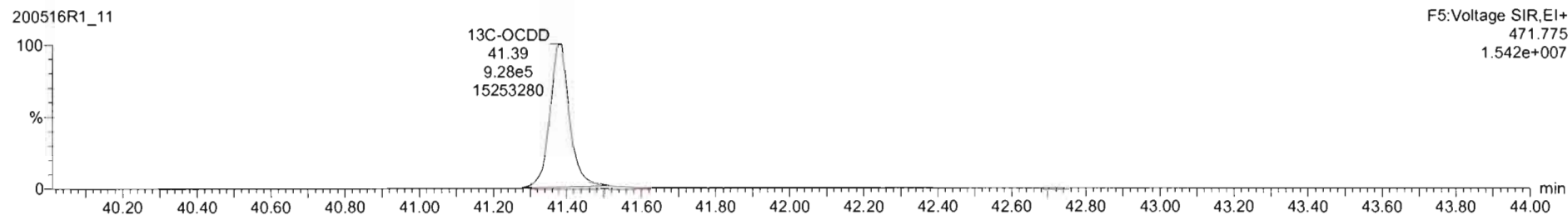
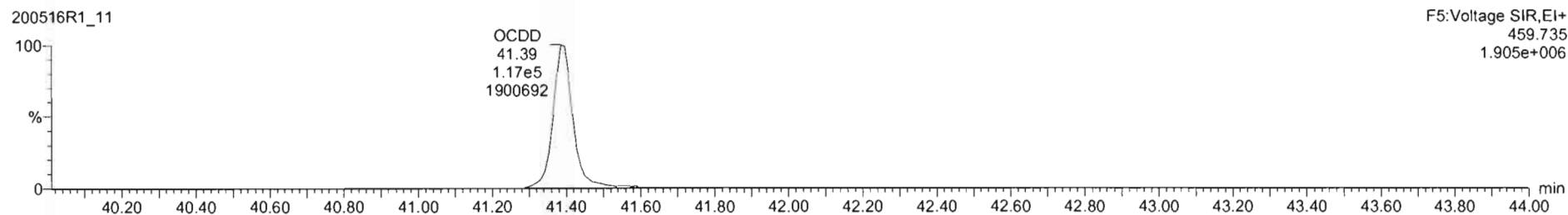
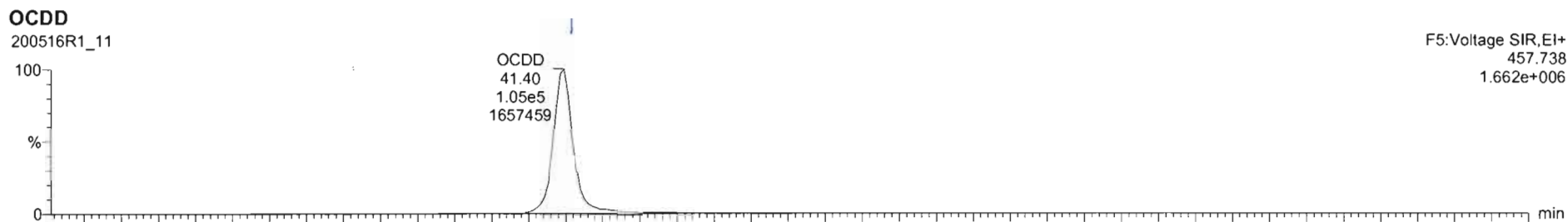
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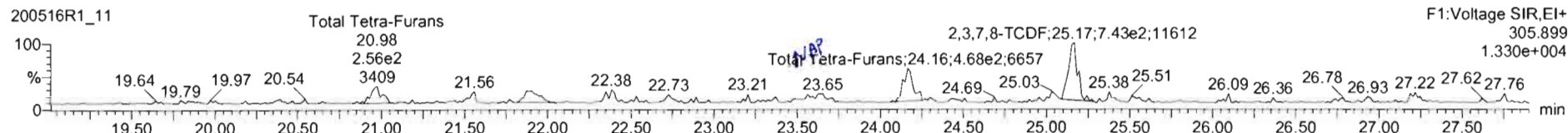
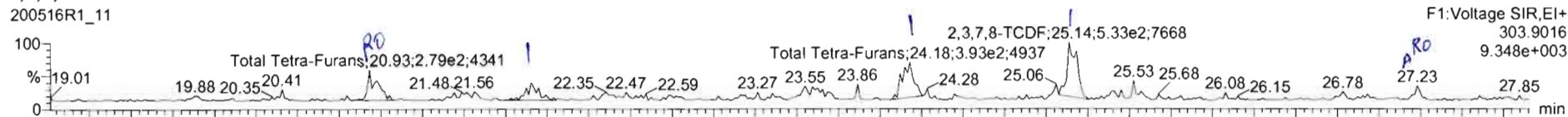


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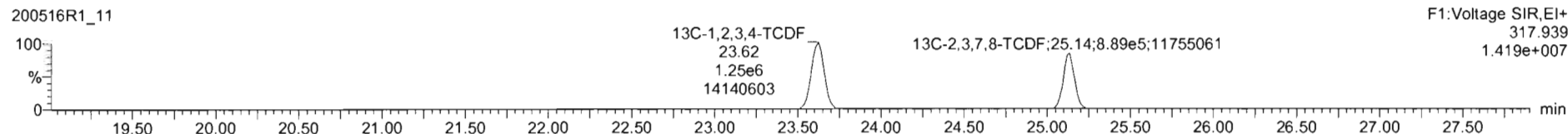
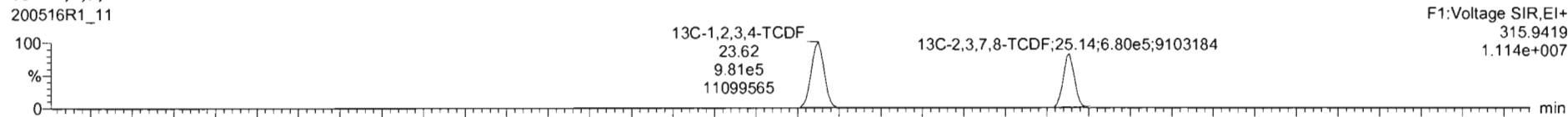
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Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

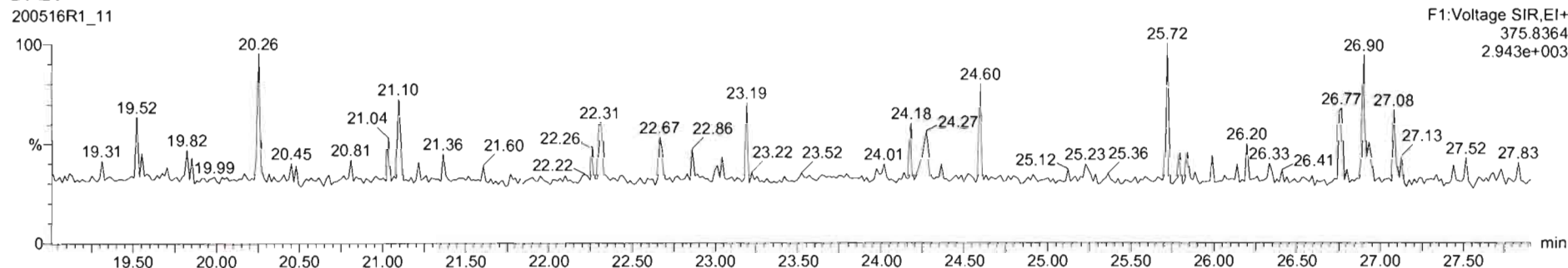
2,3,7,8-TCDF



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



DPE1

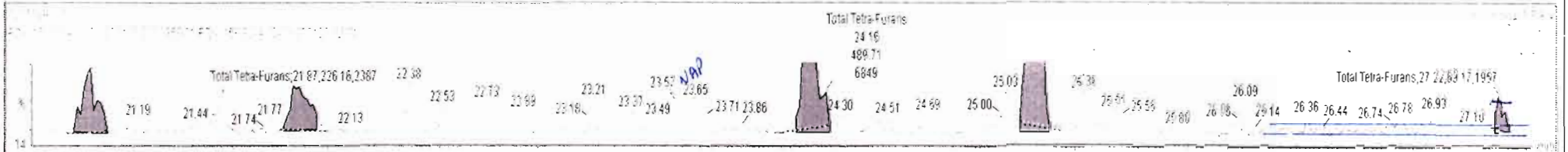
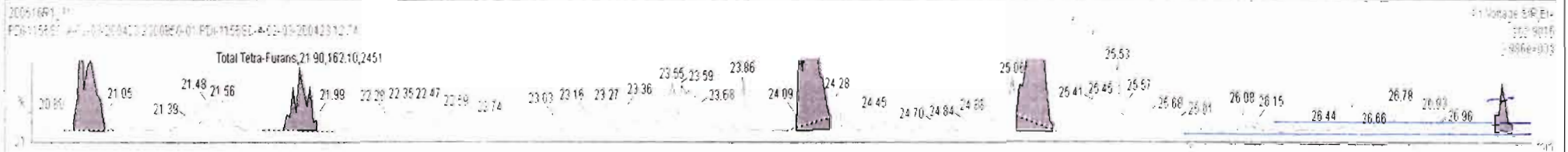




200516R1_11 - 2000950-01 PDI-1156SC-A-02-03-200423 12.74 - PDI-1156SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
42 Total Hepta-Oxans				0.8979	10.073			14.4		0.0818	14.4

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.93	2.619e2	2.492e2	1.05	YES	0.070926	0.00000
2 Total Tetra-Furans	21.90	1.621e2	2.262e2	0.72	NO	0.062421	0.062421
3 Total Tetra-Furans	24.18	4.255e2	4.897e2	0.87	NO	0.14714	0.14714
4 2,3,7,8-TCDF	25.14	5.898e2	7.601e2	0.78	NO	0.21701	0.21701
5 Total Tetra-Furans	27.23	7.075e1	6.917e1	1.02	YES	0.019682	0.00000



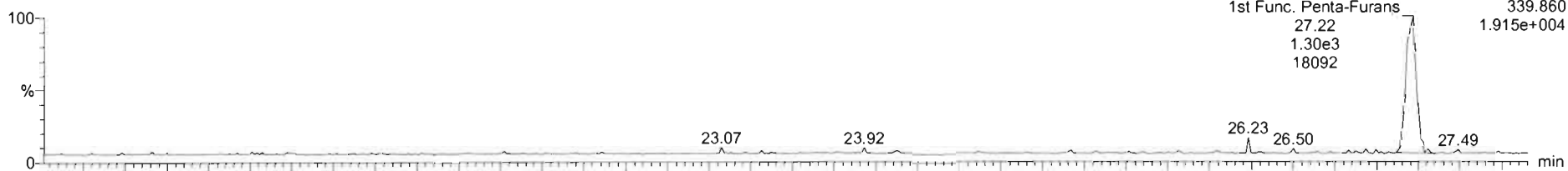
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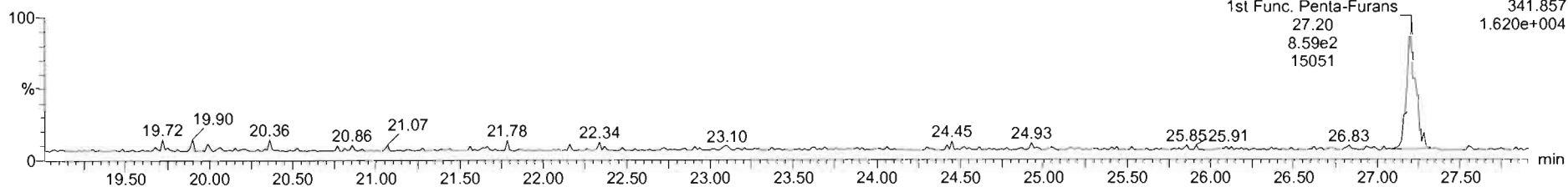
Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

1st Func. Penta-Furans

200516R1_11

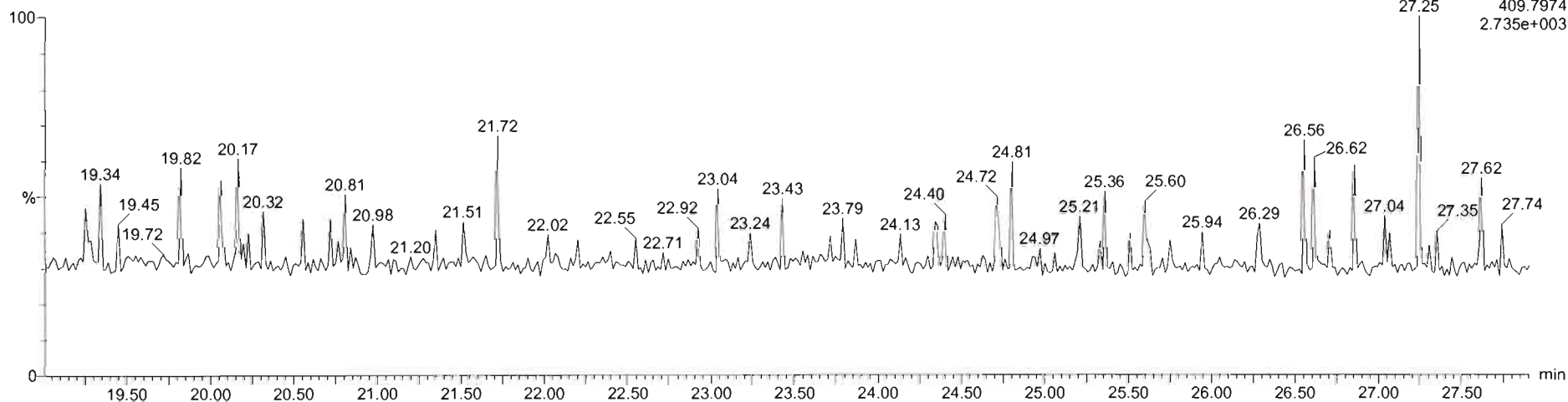


200516R1_11



DPE6

200516R1_11



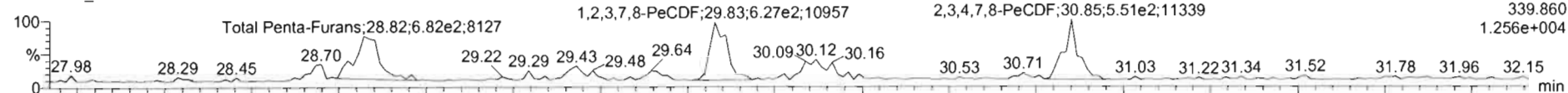
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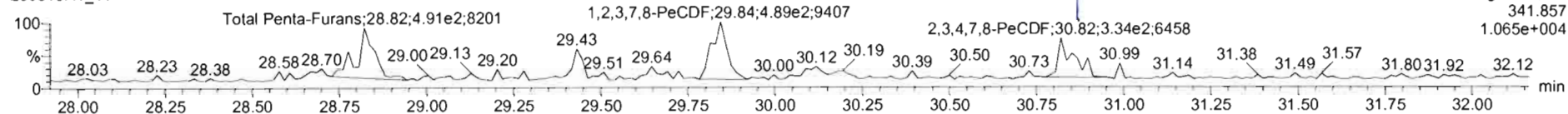
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1,2,3,7,8-PeCDF

200516R1_11

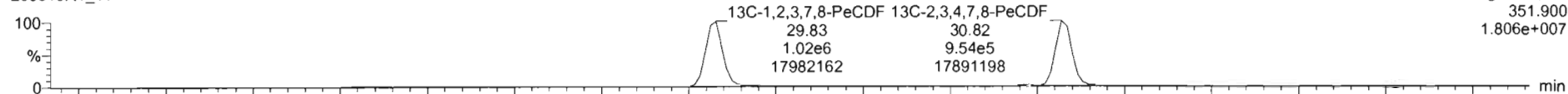


200516R1_11

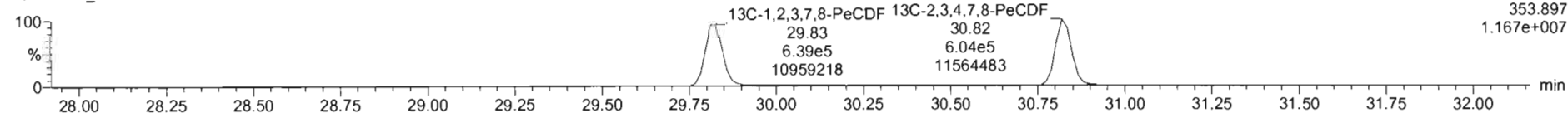


13C-1,2,3,7,8-PeCDF

200516R1_11

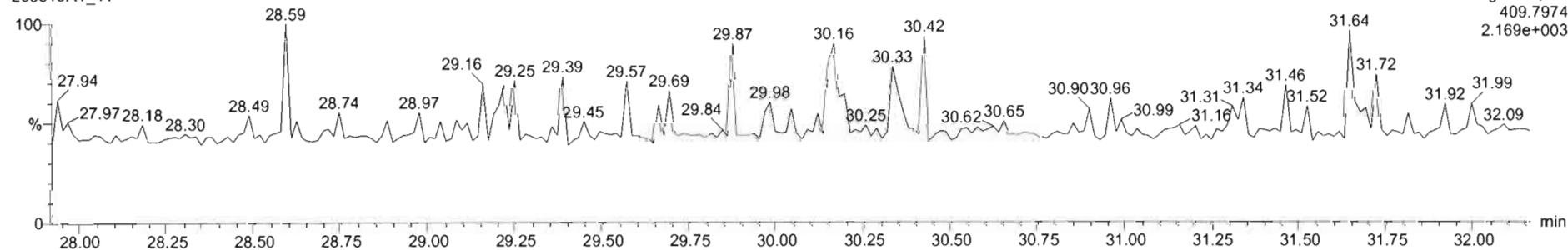


200516R1_11



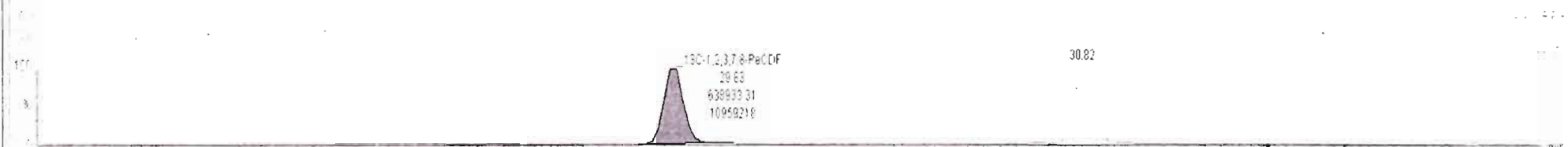
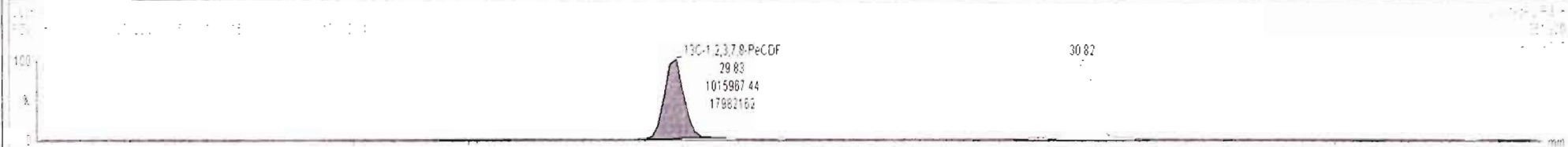
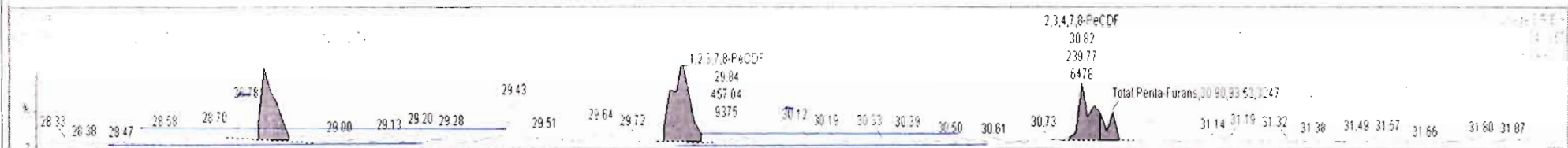
DPE2

200516R1_11



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.073			0.225		0.0396	0.349

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	26.82	4.902e2	3.209e2	1.53	NO	0.11014	0.11014
2 1,2,3,7,8-PeCDF	29.83	5.704e2	4.570e2	1.25	YES	0.12369	0.06000
3 2,3,4,7,8-PeCDF	30.85	4.017e2	2.789e2	1.68	NO	0.084597	0.084597
4 Total Penta-Furans	30.87	1.315e2	9.353e1	1.41	NO	0.030574	0.030574



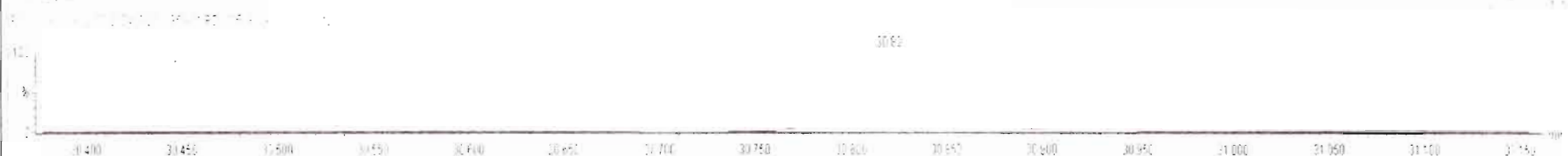
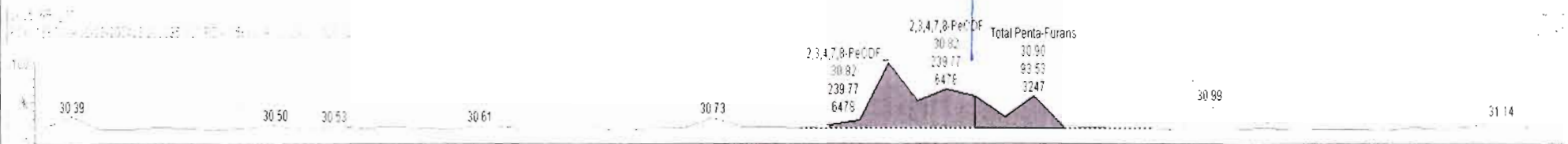
200516R1_11 - 2000950-01 PDI-1156SC-A-02-03-200423 12.74 - PDI-1156SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wtMol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.073			0.225		0.0396	0.349

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.82	4.902e2	3.209e2	1.53	NO	0.11014	0.11014
2 1,2,3,7,8-PeCDF	29.83	5.704e2	4.570e2	1.25	YES	0.12369	0.00000
3 2,3,4,7,8-PeCDF	30.85	4.017e2	2.399e2	1.68	NO	0.084597	0.084597
4 Total Penta-Furans	30.87	1.316e2	9.353e1	1.41	NO	0.030574	0.030574

200516R1_11
PDI-1156SC-A-02-03-200423 2000950-01 PDI-1156SC-A-02-03-200423 12.74

Percentage Error
12.74
1.256e-04

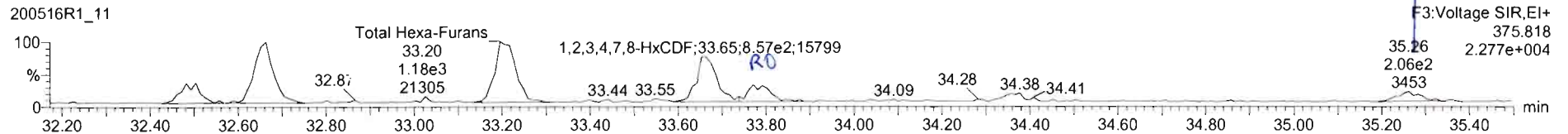
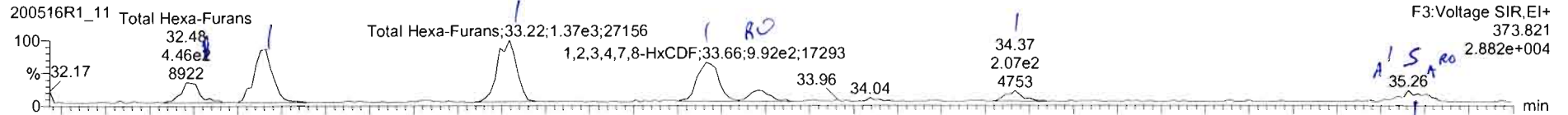


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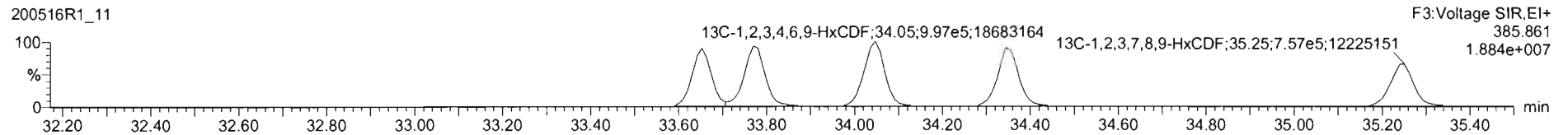
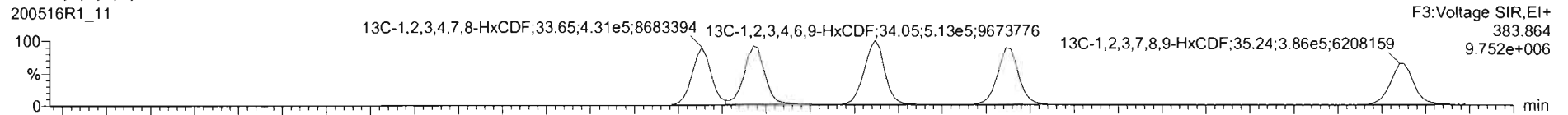
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Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423

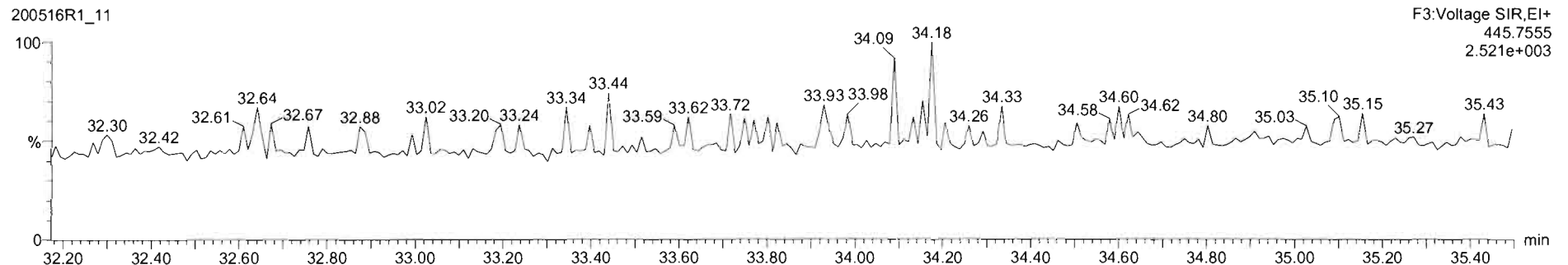
1,2,3,4,7,8-HxCDF



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

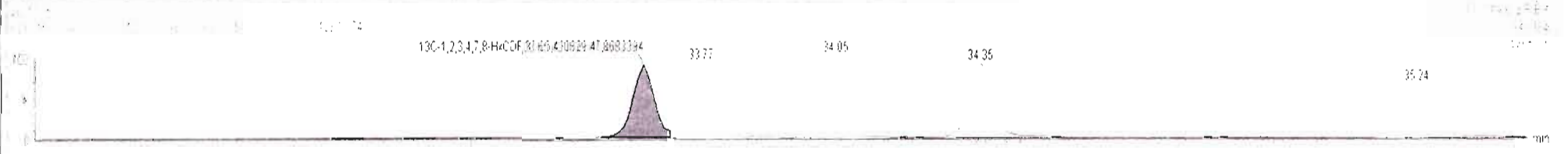
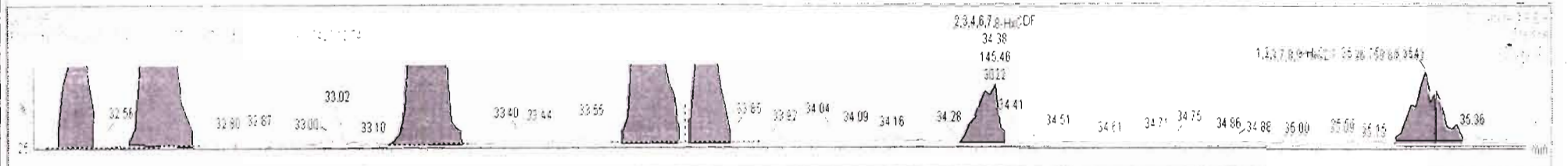
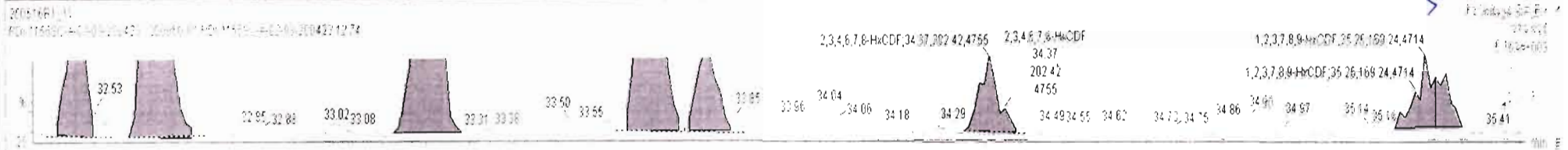


DPE3



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	Dc	EMPC
45 Total Penta-Furans				0.9102	10.073			0.20E	0.0396	0.330	

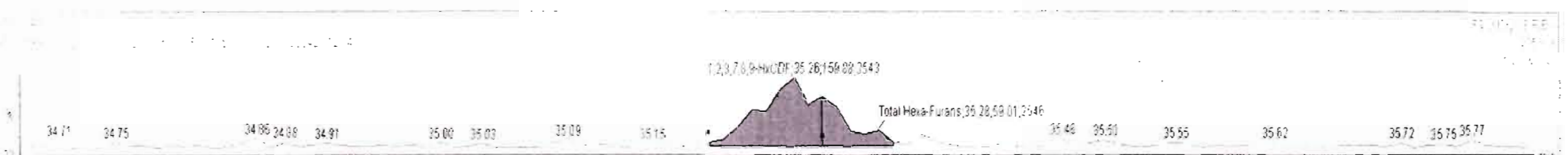
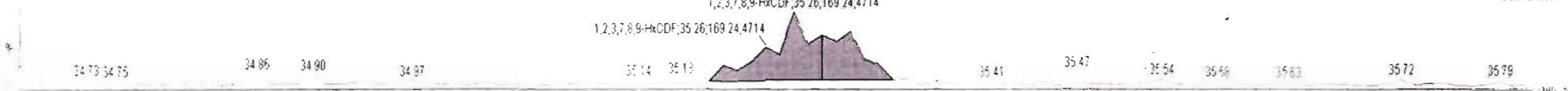
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.48	3.917e2	3.280e2	1.19	NO	0.11888	0.11888
2 Total Hexa-Furans	32.66	1.165e3	1.075e3	1.08	NO	0.37003	0.37003
3 Total Hexa-Furans	33.22	1.368e3	1.179e3	1.16	NO	0.42053	0.42053
4 1,2,3,4,7,8-HxCDF	33.66	9.667e2	8.422e2	1.15	NO	0.32194	0.32194
5 1,2,3,6,7,8-HxCDF	33.78	2.456e2	3.200e2	0.77	YES	0.070861	0.00000
6 2,3,4,6,7,8-HxCDF	34.37	2.024e2	1.455e2	1.39	NO	0.054329	0.054329
7 1,2,3,7,8,9-HxCDF	35.26	1.692e2	1.599e2	1.06	NO	0.066146	0.066146
8 Total Hexa-Furans	35.30	1.078e2	5.901e1	1.83	YES	0.021834	0.00000



X	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
46	Total Hexa-Furans				0.9217	10.073			1.35		0.0320	1.45

X	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1	Total Hexa-Furans	32.46	3.917e2	3.200e2	1.19	NO	0.11888	0.11888
2	Total Hexa-Furans	32.66	1.165e3	1.075e3	1.08	NO	0.37000	0.37003
3	Total Hexa-Furans	33.22	1.368e3	1.178e3	1.16	NO	0.42053	0.42053
4	1,2,3,4,7,8-HxCDF	33.66	9.687e2	8.422e2	1.15	NO	0.32194	0.32194
5	1,2,3,6,7,8-HxCDF	33.78	2.456e2	3.200e2	0.77	YES	0.070661	0.00000
6	2,3,4,6,7,8-HxCDF	34.37	2.066e2	1.455e2	1.42	NO	0.054968	0.054968
7	1,2,3,7,8,9-HxCDF	35.26	1.692e2	1.599e2	1.06	NO	0.066146	0.066146
8	Total Hexa-Furans	35.30	1.079e2	5.901e1	1.83	YES	0.021834	0.00000

200516R1_11
 PDI-1156SC-A-02-03-200423-2000950-01 PDI-1156SC-A-02-03-200423 12 74
 F2 Voltage 819.0
 819.021
 8.801e-007



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Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

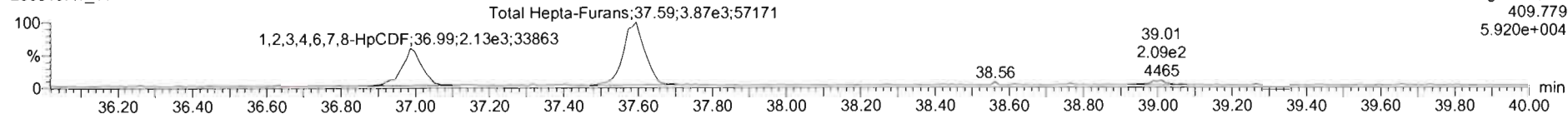
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1,2,3,4,6,7,8-HpCDF

200516R1_11

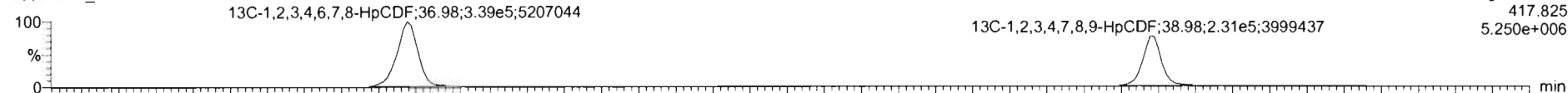


200516R1_11

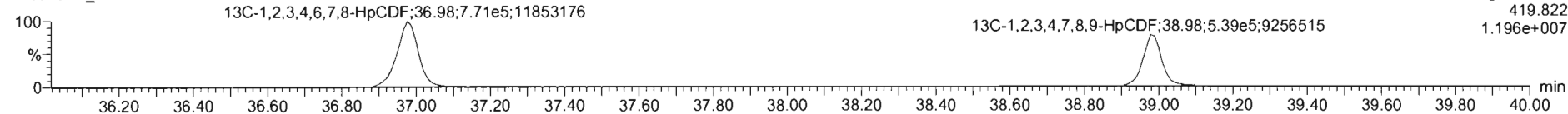


13C-1,2,3,4,6,7,8-HpCDF

200516R1_11

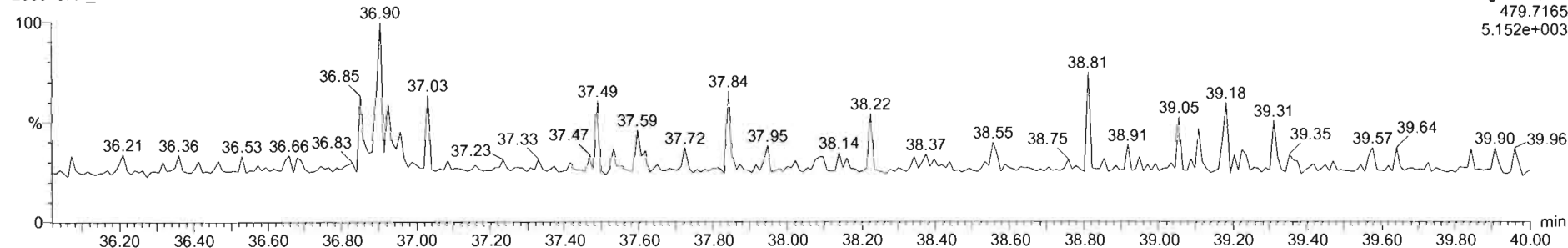


200516R1_11



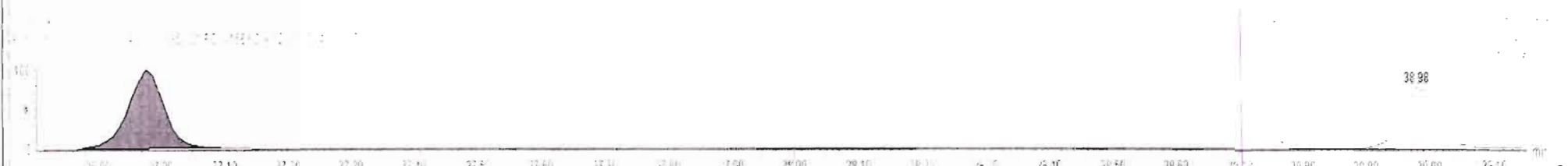
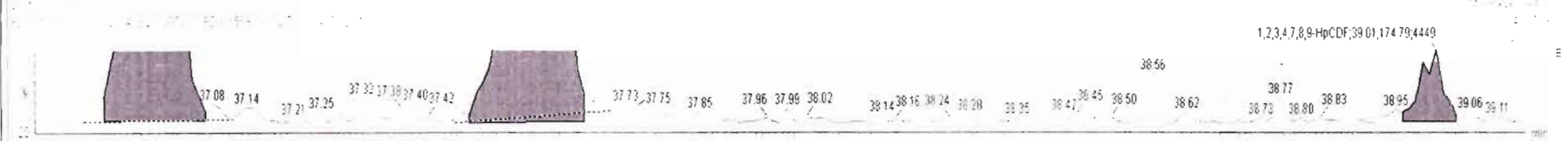
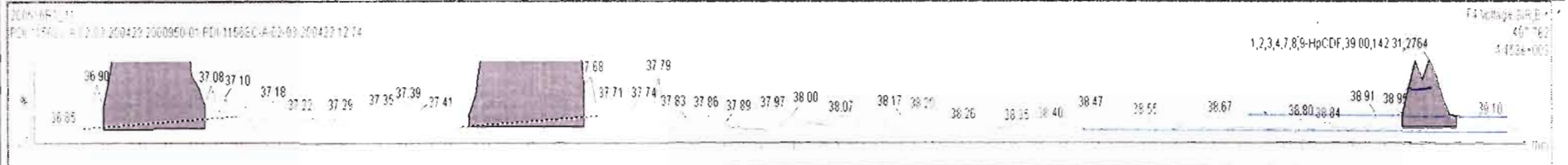
DPE4

200516R1_11



Name	Resp	RA	nly	RRF	wfVol	RT	RRT	Conc	%Rec	DL	EMPC
47 Total Hepta-Furans				0.8712	10.073			2.66		0.0473	2.73

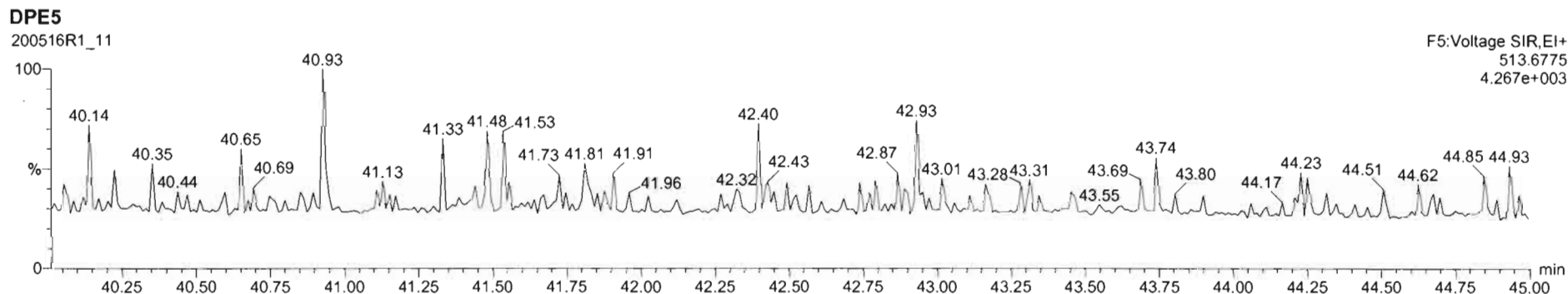
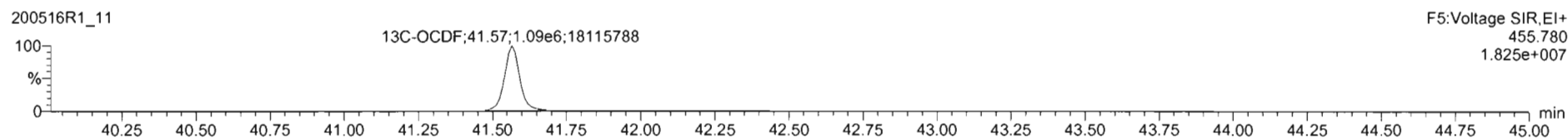
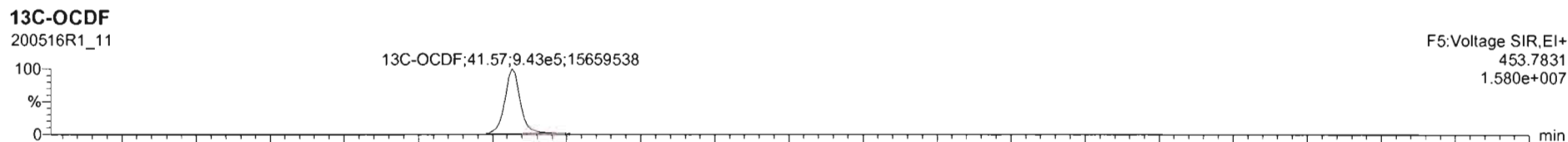
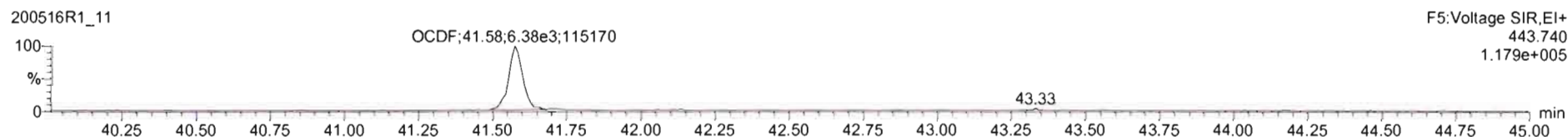
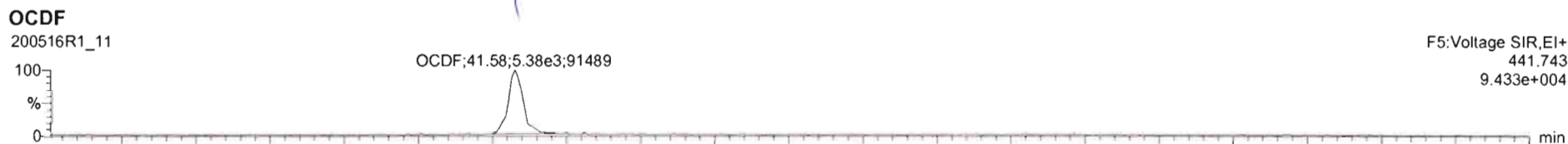
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	37.00	2.133e3	2.088e3	1.02	NO	0.86679	0.86679
2 Total Hepta-Furans	37.55	3.491e3	3.890e3	0.90	NO	1.7896	1.7896
3 1,2,3,4,7,8,9-HpCDF	39.00	1.423e2	1.748e2	0.81	YES	0.071134	0.00000



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Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
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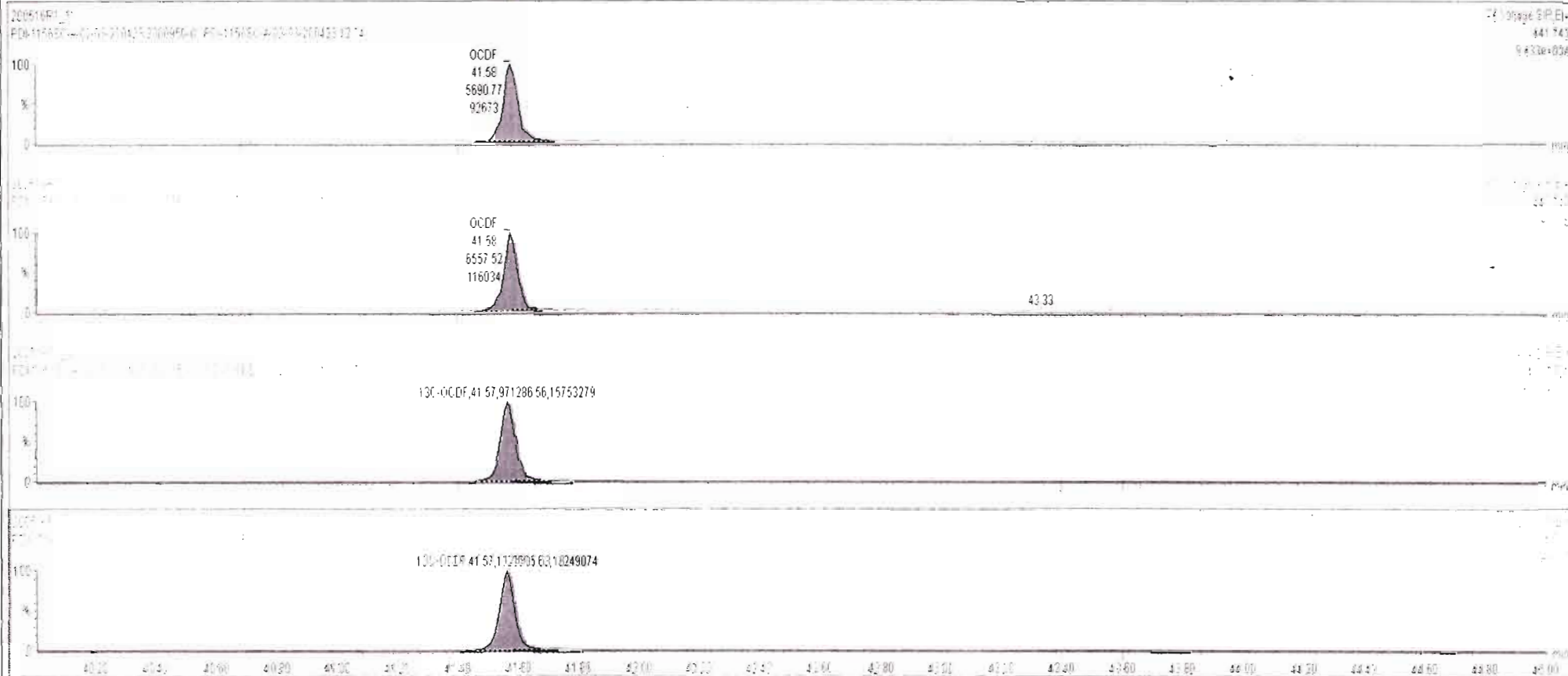
Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423



200516R1_11 - 2000950-01 PDI-1156SC-A-02-03-200423 12.74 - PDI-1156SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RR1	Conc.	%Rec	DL	EMPC
17 OCDF	1.22e4	0.87	NO	0.8021	10.073	41.58	1.000	2.88		0.0578	2.88

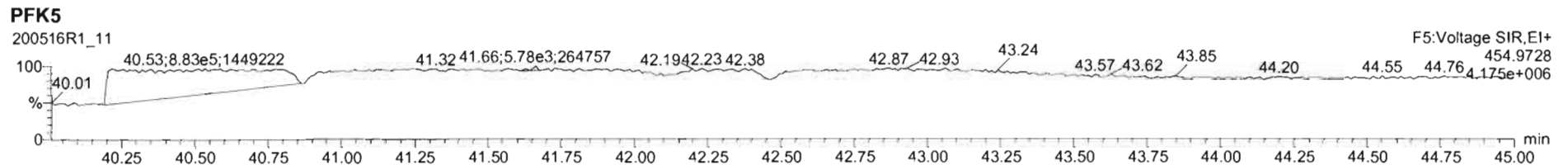
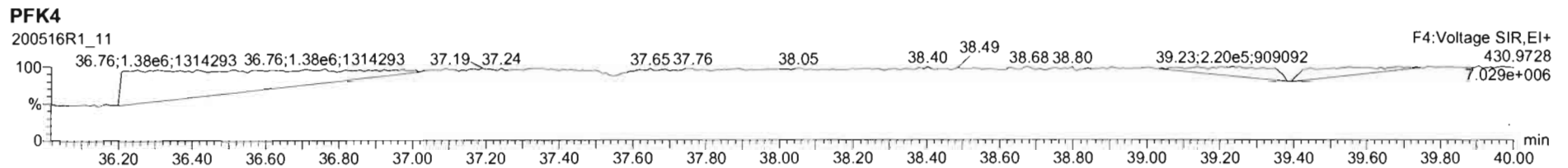
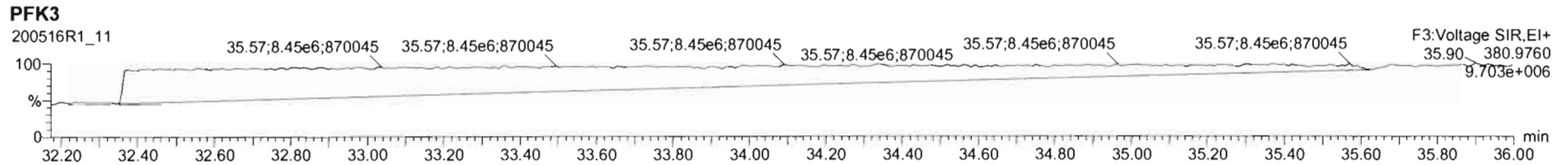
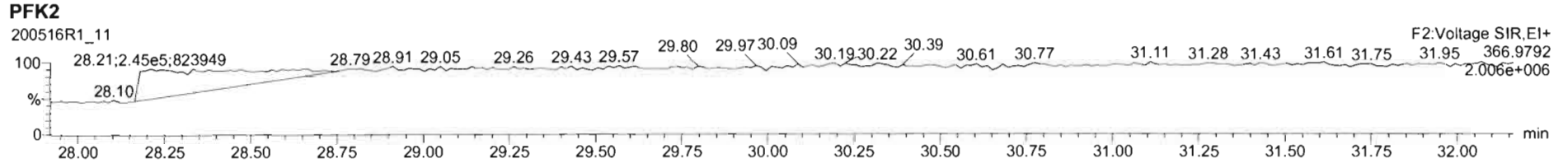
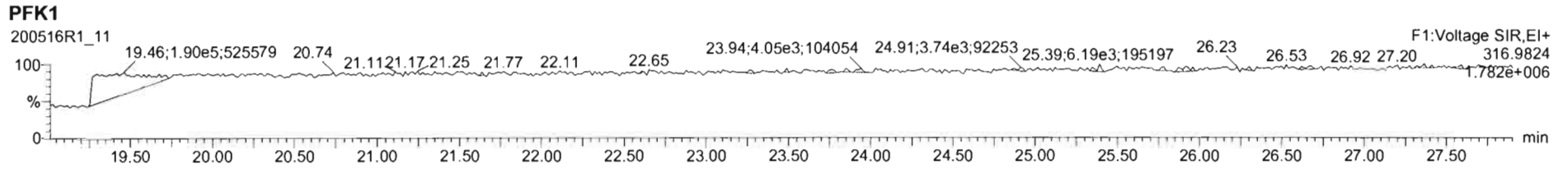
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
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Name: 200516R1_11, Date: 16-May-2020, Time: 16:54:05, ID: 2000950-01 PDI-1156SC-A-02-03-200423 12.74, Description: PDI-1156SC-A-02-03-200423



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-12.qld

Last Altered: Friday, May 22, 2020 4:09:08 PM Pacific Daylight Time

Printed: Friday, May 22, 2020 4:14:27 PM Pacific Daylight Time

dy 05-22-2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

CT 05/29/2020

Name: 200516R1_12, Date: 16-May-2020, Time: 17:40:15, ID: 2000950-02 PDI-156SC-A-00-01-200423 11.13, Description: PDI-156SC-A-00-01-200423

	# 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, 0.623	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.049	31.162			1.001			0.0744	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.049	34.537			1.000			0.0692	
4	4 1,2,3,6,7,8-HxCDD	6.89e2	1.40	NO	0.915	10.049	34.623	34.64	1.000	1.001	0.13909		0.0698	0.139
5	5 1,2,3,7,8,9-HxCDD	6.50e2	1.03	YES	0.915	10.049	34.909	34.92	1.000	1.001	0.12501		0.0583	0.116
6	6 1,2,3,4,6,7,8-HpCDD	1.39e4	1.00	NO	0.898	10.049	38.415	38.42	1.000	1.001	3.4595		0.0364	3.46
7	7 OCDD	1.24e5	0.89	NO	0.933	10.049	41.386	41.40	1.000	1.000	34.458		0.0895	34.5
8	8 2,3,7,8-TCDF	5.04e2	0.72	NO	0.787	10.049	25.147	25.12	1.001	1.000	0.096814		0.0209	0.0968
9	9 1,2,3,7,8-PeCDF	4.83e2	1.46	NO	0.910	10.049	29.849	29.84	1.001	1.001	0.071697		0.0404	0.0717
10	10 2,3,4,7,8-PeCDF	3.55e2	2.32	YES	0.966	10.049	30.866	30.85	1.001	1.000	0.053220		0.0386	0.0409
11	11 1,2,3,4,7,8-HxCDF	1.04e3	0.86	YES	0.878	10.049	33.653	33.67	1.000	1.001	0.20840		0.0283	0.172
12	12 1,2,3,6,7,8-HxCDF	3.97e2	1.38	NO	0.874	10.049	33.791	33.81	1.000	1.001	0.070842		0.0263	0.0708
13	13 2,3,4,6,7,8-HxCDF	1.91e2	0.92	YES	0.922	10.049	34.390	34.37	1.001	1.000	0.032864		0.0262	0.0285
14	14 1,2,3,7,8,9-HxCDF	3.75e2	1.18	NO	0.864	10.049	35.251	35.27	1.000	1.001	0.084954		0.0360	0.0850
15	15 1,2,3,4,6,7,8-HpCDF	2.11e3	1.10	NO	0.871	10.049	37.024	37.01	1.001	1.001	0.47432		0.0296	0.474
16	16 1,2,3,4,7,8,9-HpCDF	2.18e2	0.88	YES	1.01	10.049	38.979	39.01	1.000	1.001	0.064877		0.0352	0.0597
17	17 OCDF	4.15e3	0.83	NO	0.802	10.049	41.567	41.58	1.000	1.000	1.1425		0.0486	1.14
18	18 13C-2,3,7,8-TCDD	1.08e6	0.79	NO	1.16	10.049	26.046	26.05	1.026	1.027	114.29	57.4	0.157	
19	19 13C-1,2,3,7,8-PeCDD	1.07e6	0.63	NO	0.847	10.049	31.141	31.14	1.227	1.227	154.18	77.5	0.186	
20	20 13C-1,2,3,4,7,8-HxCDD	8.85e5	1.28	NO	0.750	10.049	34.527	34.53	1.014	1.014	156.56	78.7	0.259	
21	21 13C-1,2,3,6,7,8-HxCDD	1.08e6	1.25	NO	0.963	10.049	34.639	34.62	1.017	1.017	148.56	74.6	0.202	
22	22 13C-1,2,3,7,8,9-HxCDD	1.12e6	1.26	NO	0.838	10.049	34.908	34.90	1.025	1.025	177.85	89.4	0.232	
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.92e5	1.05	NO	0.641	10.049	38.402	38.40	1.128	1.128	184.56	92.7	0.234	
24	24 13C-OCDD	1.54e6	0.89	NO	0.586	10.049	41.398	41.39	1.216	1.216	348.03	87.4	0.228	
25	25 13C-2,3,7,8-TCDF	1.32e6	0.77	NO	1.03	10.049	25.104	25.12	0.989	0.990	107.04	53.8	0.233	
26	26 13C-1,2,3,7,8-PeCDF	1.47e6	1.59	NO	0.845	10.049	29.829	29.83	1.176	1.175	146.74	73.7	0.261	
27	27 13C-2,3,4,7,8-PeCDF	1.37e6	1.58	NO	0.814	10.049	30.822	30.83	1.215	1.215	142.03	71.4	0.271	
28	28 13C-1,2,3,4,7,8-HxCDF	1.14e6	0.51	NO	1.00	10.049	33.666	33.65	0.989	0.988	150.55	75.6	0.278	
29	29 13C-1,2,3,6,7,8-HxCDF	1.28e6	0.51	NO	1.14	10.049	33.788	33.78	0.992	0.992	148.95	74.8	0.246	
30	30 13C-2,3,4,6,7,8-HxCDF	1.25e6	0.51	NO	1.02	10.049	34.357	34.36	1.009	1.009	162.32	81.6	0.273	
31	31 13C-1,2,3,7,8,9-HxCDF	1.02e6	0.51	NO	0.845	10.049	35.249	35.25	1.035	1.035	159.51	80.1	0.331	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-12.qld

Last Altered: Friday, May 22, 2020 4:09:08 PM Pacific Daylight Time

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Name: 200516R1_12, Date: 16-May-2020, Time: 17:40:15, ID: 2000950-02 PDI-156SC-A-00-01-200423 11.13, Description: PDI-156SC-A-00-01-200423

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.01e6	0.43	NO	0.771	10.049	36.982	36.99	1.086	1.086	174.53	87.7	0.221	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.61e5	0.44	NO	0.482	10.049	38.994	38.98	1.145	1.145	181.80	91.3	0.353	
34	34 13C-OCDF	1.80e6	0.87	NO	0.669	10.049	41.568	41.57	1.221	1.221	357.75	89.9	0.220	
35	35 37Cl-2,3,7,8-TCDD	4.22e5			1.10	10.049	26.076	26.08	1.028	1.028	46.912	58.9	0.0336	
36	36 13C-1,2,3,4-TCDD	1.63e6	0.79	NO	1.00	10.049	25.350	25.38	1.000	1.000	199.03	100	0.182	
37	37 13C-1,2,3,4-TCDF	2.37e6	0.79	NO	1.00	10.049	23.560	23.59	1.000	1.000	199.03	100	0.241	
38	38 13C-1,2,3,4,6,9-HxCDF	1.50e6	0.52	NO	1.00	10.049	34.000	34.05	1.000	1.000	199.03	100	0.280	
39	39 Total Tetra-Dioxins				0.947	10.049	24.620		0.000				0.0408	
40	40 Total Penta-Dioxins				0.942	10.049	29.960		0.000		0.00000		0.0407	0.0691
41	41 Total Hexa-Dioxins				0.915	10.049	33.635		0.000		1.5531		0.0723	1.67
42	42 Total Hepta-Dioxins				0.898	10.049	37.640		0.000		7.9440		0.0364	7.94
43	43 Total Tetra-Furans				0.787	10.049	23.610		0.000		0.096814		0.0209	0.192
44	44 1st Func. Penta-Furans				0.910	10.049	27.090		0.000		0.17793		0.0170	0.178
45	45 Total Penta-Furans				0.910	10.049	29.275		0.000		0.15506		0.0407	0.251
46	46 Total Hexa-Furans				0.922	10.049	33.555		0.000		0.68462		0.0277	0.885
47	47 Total Hepta-Furans				0.871	10.049	37.835		0.000		1.3887		0.0340	1.45

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-12.qld

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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	28.90	2.800e3	5.198e3	5.156e1	1.026e2	0.50	YES	0.000e0	0.00000	0.026365	0.0744
2	Total Penta-Dioxins	29.39	2.763e3	4.774e3	8.349e1	1.615e2	0.52	YES	0.000e0	0.00000	0.042691	0.0744

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	4.393e4	3.795e4	2.010e3	1.611e3	1.25	NO	3.622e3	0.76636	0.76636	0.0723
2	Total Hexa-Dioxins	33.87	2.640e4	2.371e4	1.719e3	1.342e3	1.28	NO	3.061e3	0.64762	0.64762	0.0723
3	1,2,3,6,7,8-HxCDD	34.64	9.350e3	6.083e3	4.025e2	2.866e2	1.40	NO	6.891e2	0.13909	0.13909	0.0698
4	1,2,3,7,8,9-HxCDD	34.92	6.866e3	7.066e3	3.300e2	3.203e2	1.03	YES	6.503e2	0.00000	0.11551	0.0683

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	1.487e5	1.490e5	9.052e3	9.000e3	1.01	NO	1.805e4	4.4845	4.4845	0.0364
2	1,2,3,4,6,7,8-HpCDD	38.42	1.065e5	1.053e5	6.959e3	6.966e3	1.00	NO	1.393e4	3.4595	3.4595	0.0364

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.13	3.497e3	3.186e3	2.266e2	2.713e2	0.84	NO	0.000e0	0.00000	0.095678	0.0209
2	2,3,7,8-TCDF	25.12	3.656e3	4.813e3	2.107e2	2.930e2	0.72	NO	5.038e2	0.096814	0.096814	0.0209

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-12.qld

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Name: 200516R1_12, Date: 16-May-2020, Time: 17:40:15, ID: 2000950-02 PDI-156SC-A-00-01-200423 11.13, Description: PDI-156SC-A-00-01-200423

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.20	1.156e4	8.171e3	7.227e2	4.359e2	1.66	NO	1.159e3	0.17793	0.17793	0.0170

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.85	3.622e3	3.172e3	2.164e2	1.867e2	1.16	YES	0.000e0	0.00000	0.054690	0.0407
2	1,2,3,7,8-PeCDF	29.84	8.570e3	4.703e3	2.867e2	1.965e2	1.46	NO	4.832e2	0.071697	0.071697	0.0404
3	Total Penta-Furans	29.86	6.287e3	5.000e3	1.768e2	1.264e2	1.40	NO	3.032e2	0.046559	0.046559	0.0407
4	Total Penta-Furans	30.10	4.164e3	3.167e3	1.427e2	9.687e1	1.47	NO	2.396e2	0.036801	0.036801	0.0407
5	2,3,4,7,8-PeCDF	30.85	5.929e3	3.573e3	2.481e2	1.070e2	2.32	YES	3.550e2	0.00000	0.040888	0.0386

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.49	5.423e3	5.655e3	2.232e2	1.755e2	1.27	NO	3.987e2	0.073549	0.073549	0.0277
2	Total Hexa-Furans	32.66	1.431e4	1.139e4	6.670e2	5.309e2	1.26	NO	1.198e3	0.22098	0.22098	0.0277
3	Total Hexa-Furans	33.22	1.766e4	1.197e4	6.966e2	5.735e2	1.21	NO	1.270e3	0.23430	0.23430	0.0277
4	1,2,3,4,7,8-HxCDF	33.67	1.015e4	1.317e4	4.797e2	5.587e2	0.86	YES	1.038e3	0.00000	0.17223	0.0283
5	1,2,3,6,7,8-HxCDF	33.81	4.177e3	4.135e3	2.301e2	1.668e2	1.38	NO	3.970e2	0.070842	0.070842	0.0263
6	2,3,4,6,7,8-HxCDF	34.37	2.592e3	2.507e3	9.135e1	9.956e1	0.92	YES	1.909e2	0.00000	0.028495	0.0262
7	1,2,3,7,8,9-HxCDF	35.27	4.427e3	4.353e3	2.028e2	1.718e2	1.18	NO	3.746e2	0.084954	0.084954	0.0360

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.01	1.970e4	1.747e4	1.105e3	1.001e3	1.10	NO	2.106e3	0.47432	0.47432	0.0296
2	Total Hepta-Furans	37.60	2.571e4	2.807e4	1.668e3	1.684e3	0.99	NO	3.352e3	0.91438	0.91438	0.0340
3	1,2,3,4,7,8,9-HpCDF	39.01	2.266e3	3.399e3	1.023e2	1.159e2	0.88	YES	2.182e2	0.00000	0.059737	0.0352

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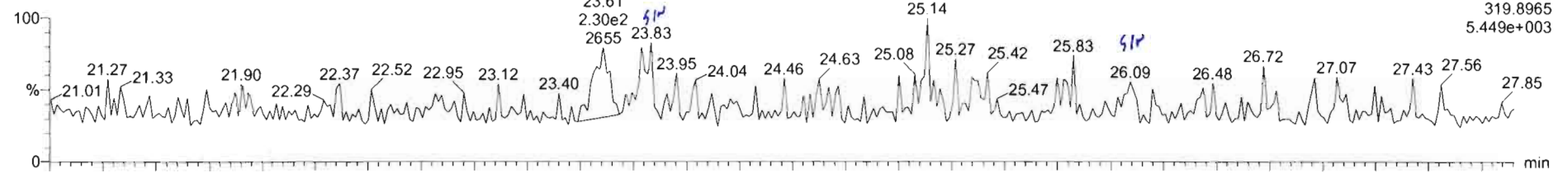
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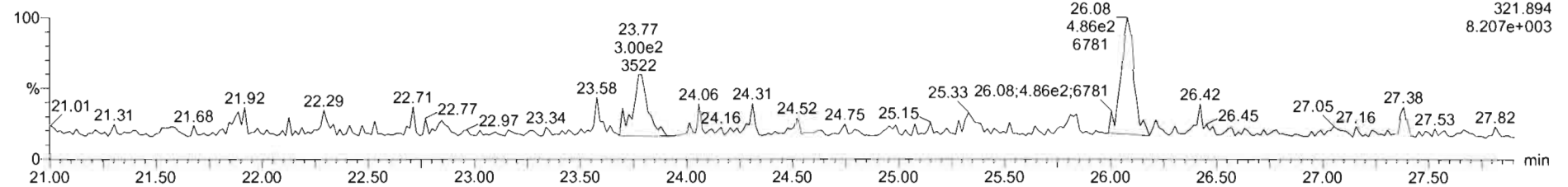
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2,3,7,8-TCDD

200516R1_12

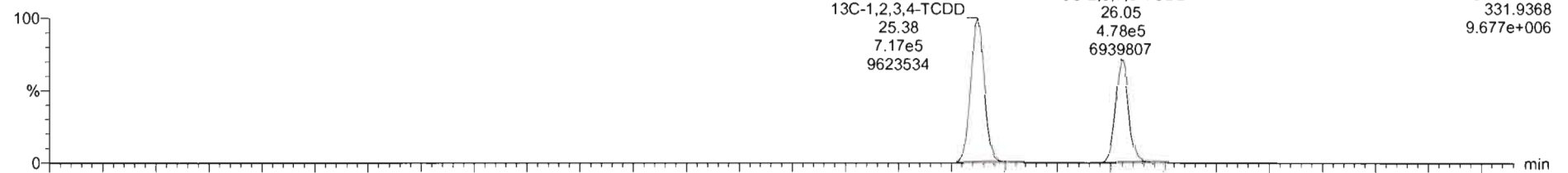


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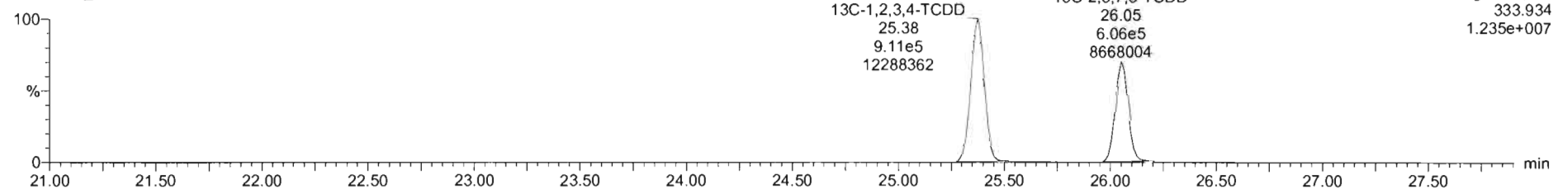


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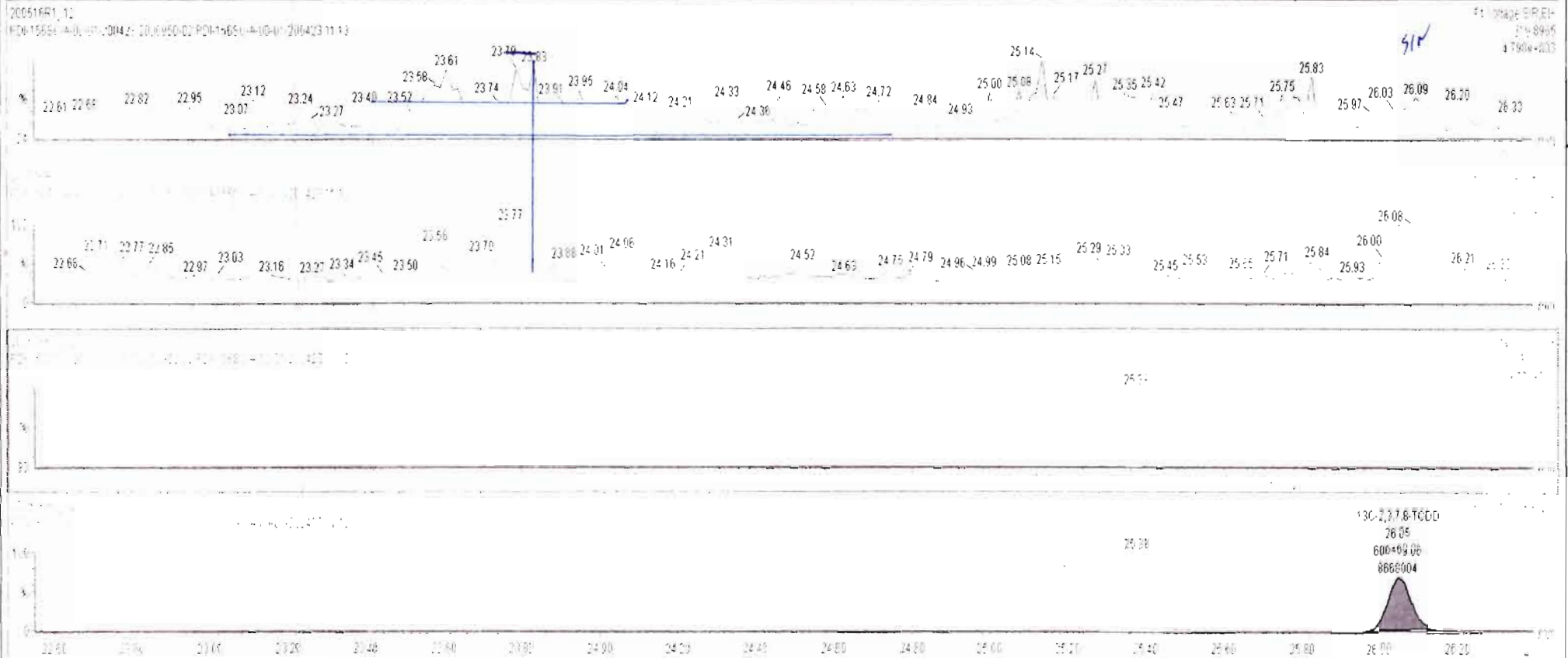
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200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD				NO	0.9475	10.049				0.0623	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1							



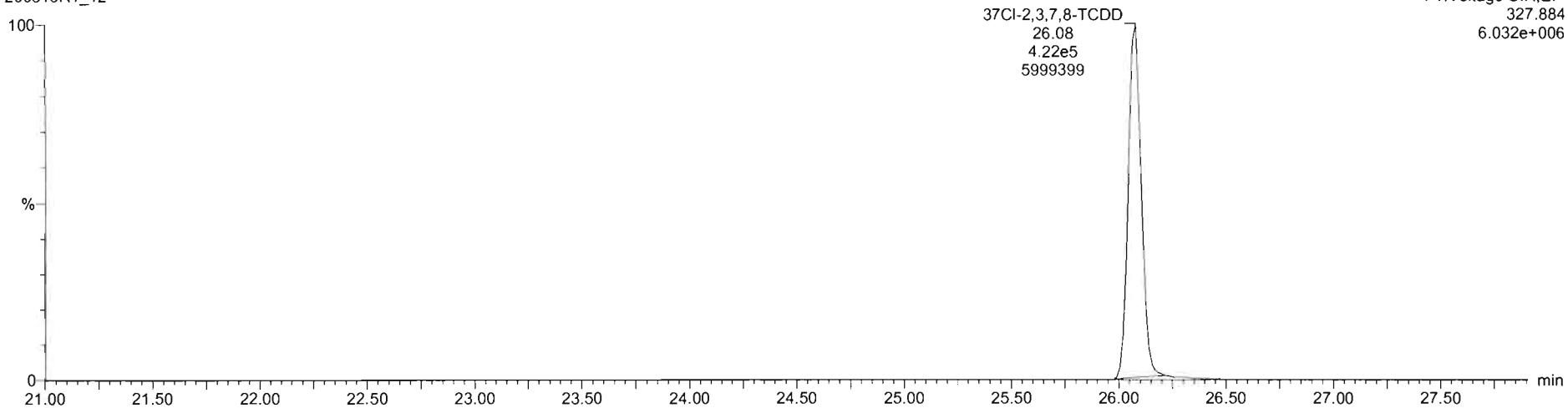
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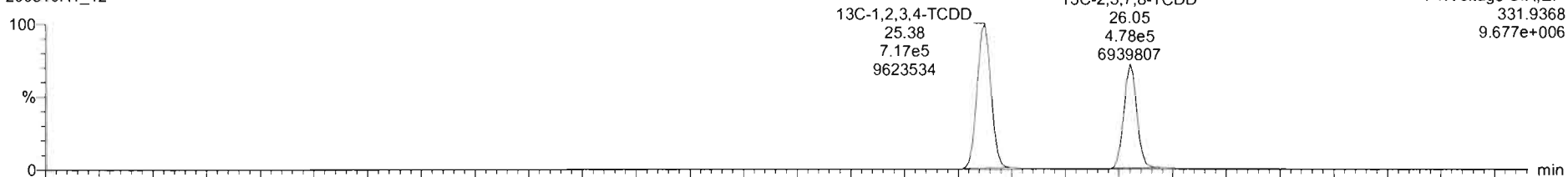
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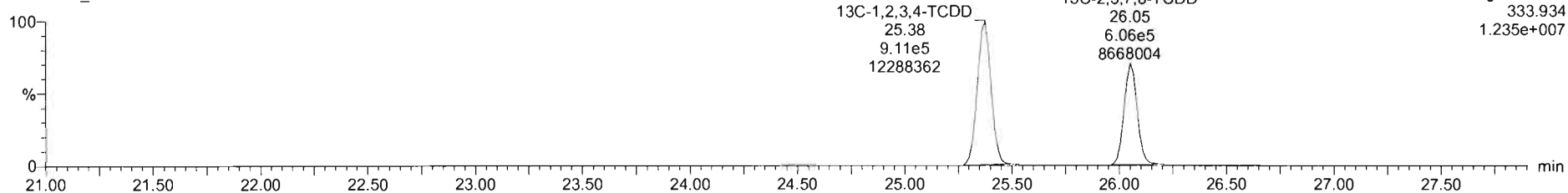


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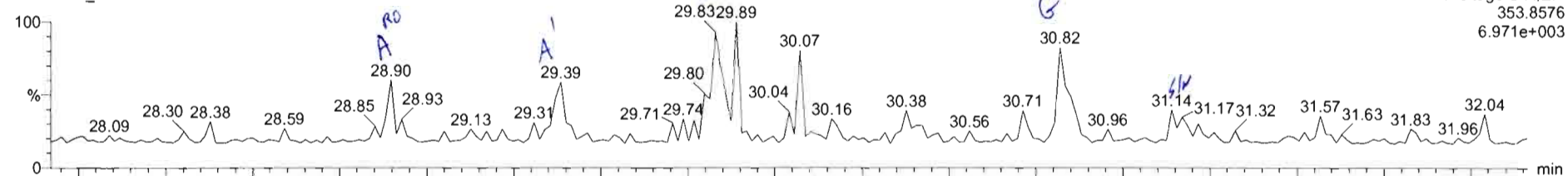
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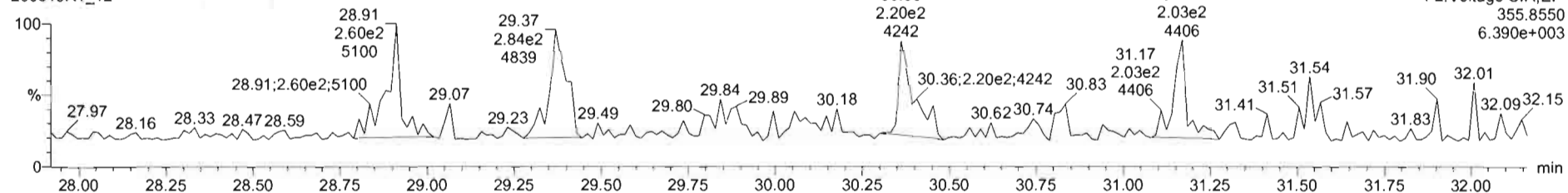
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1,2,3,7,8-PeCDD

200516R1_12

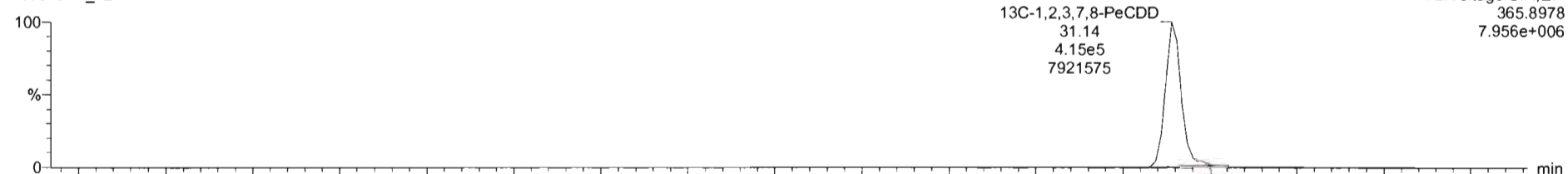


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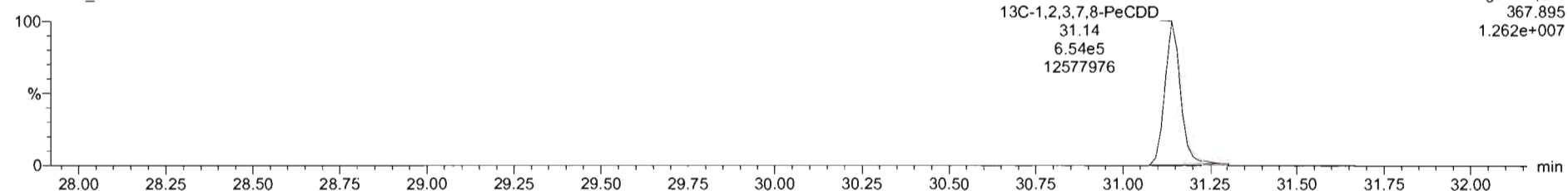


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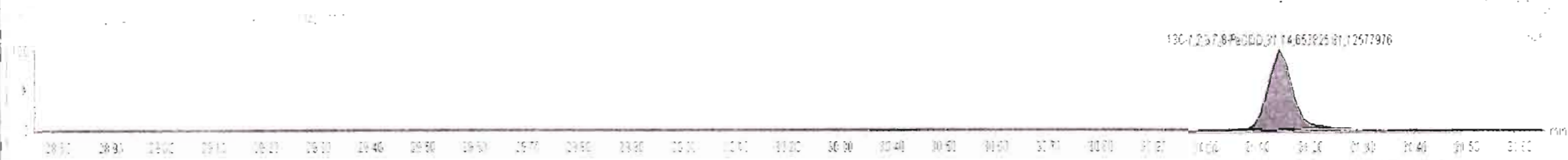
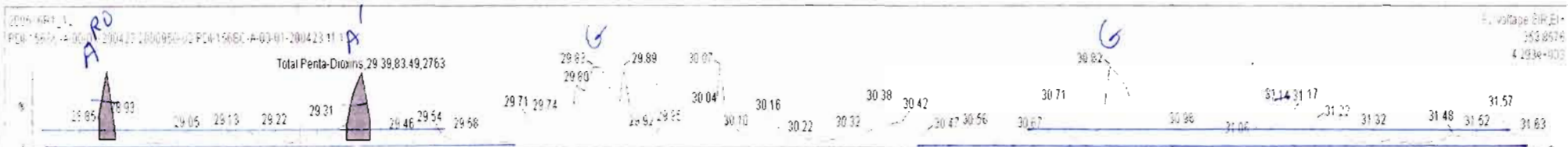
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200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.049					0.0408	

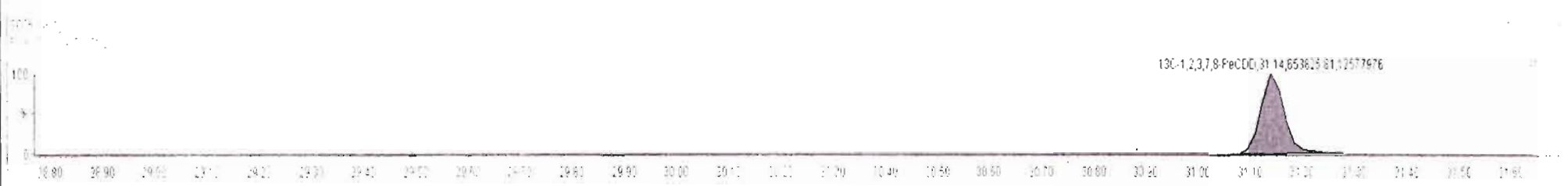
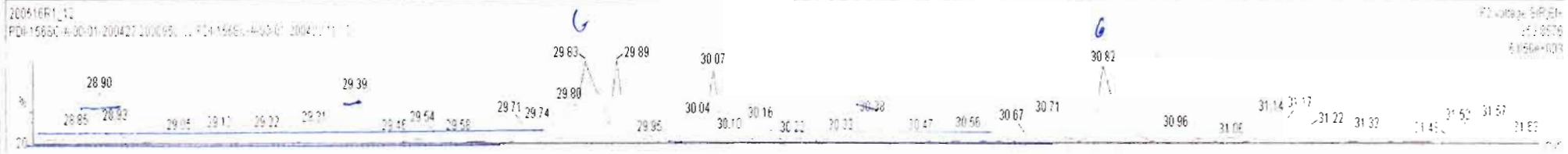
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.90	5.156e1	1.138e2	0.45	YES	0.026365	0.00000
2 Total Penta-Dioxins	29.39	8.349e1	1.554e2	0.54	NO	0.047202	0.047202



200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	w/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1	2,3,7,8-TCDD			NO	0.9475	10.049				0.0623	

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



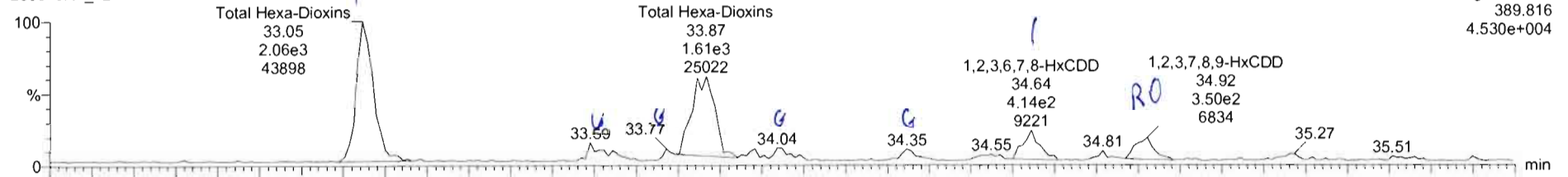
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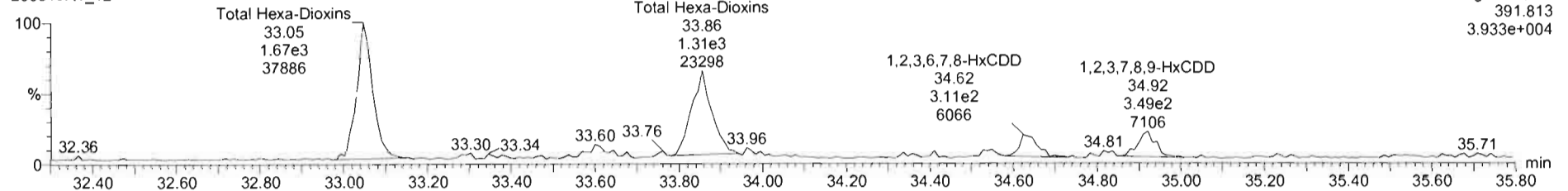
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1,2,3,4,7,8-HxCDD

200516R1_12

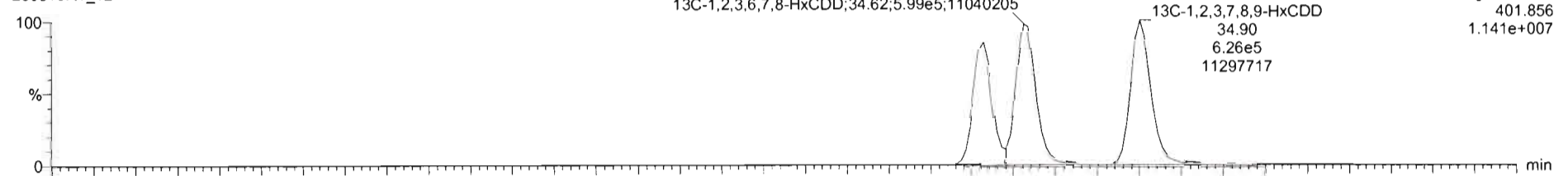


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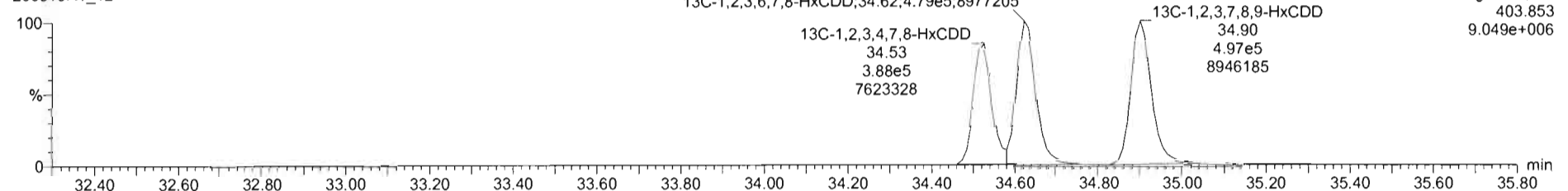


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200516R1_12



200516R1_12

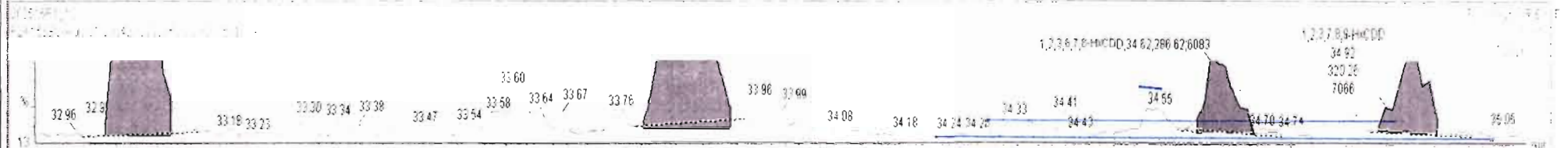
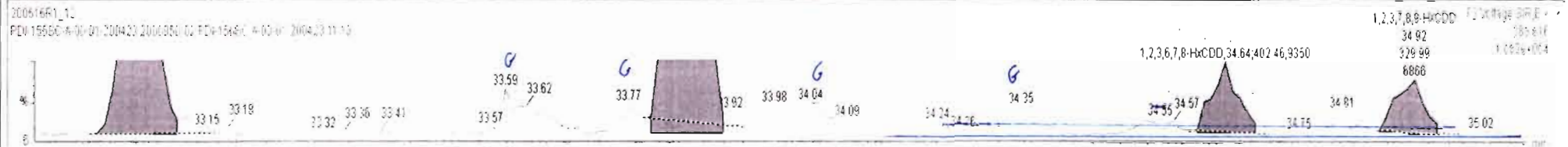




200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Chlorins				0.9145	10.049			1.55		0.0723	1.67

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Chlorins	33.05	2.010e3	1.611e3	1.25	NO	0.76636	0.76636
2 Total Hexa-Chlorins	33.87	1.719e3	1.342e3	1.28	NO	0.64762	0.64762
3 1,2,3,6,7,8-HxCDD	34.64	4.025e2	2.986e2	1.40	NO	0.13909	0.13909
4 1,2,3,7,8,9-HxCDD	34.92	3.300e2	3.200e2	1.03	YES	0.11551	0.00000



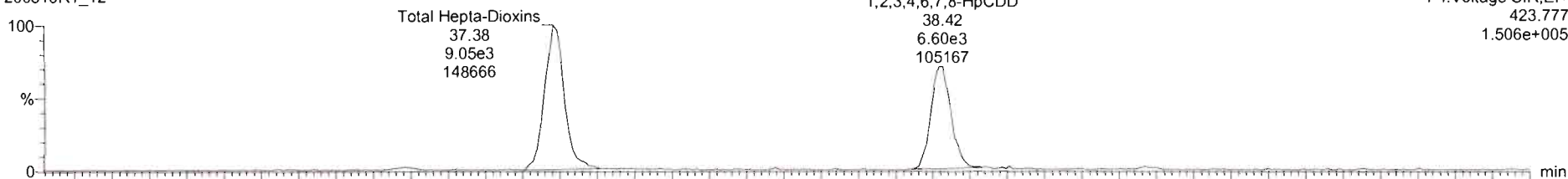
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_12, Date: 16-May-2020, Time: 17:40:15, ID: 2000950-02 PDI-156SC-A-00-01-200423 11.13, Description: PDI-156SC-A-00-01-200423

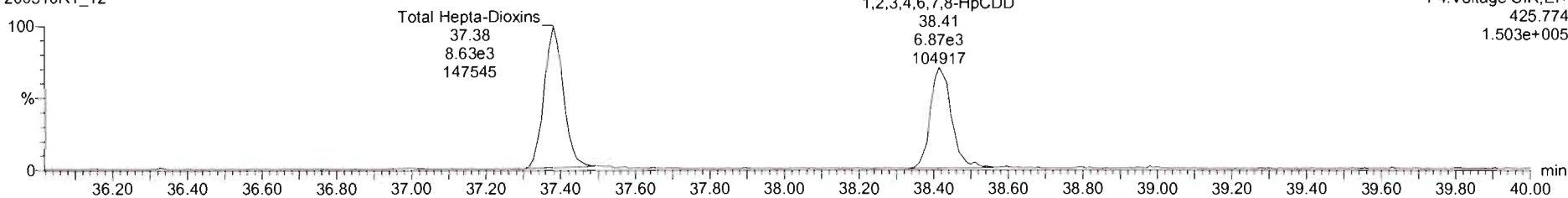
1,2,3,4,6,7,8-HpCDD

200516R1_12



F4:Voltage SIR,EI+
423.777
1.506e+005

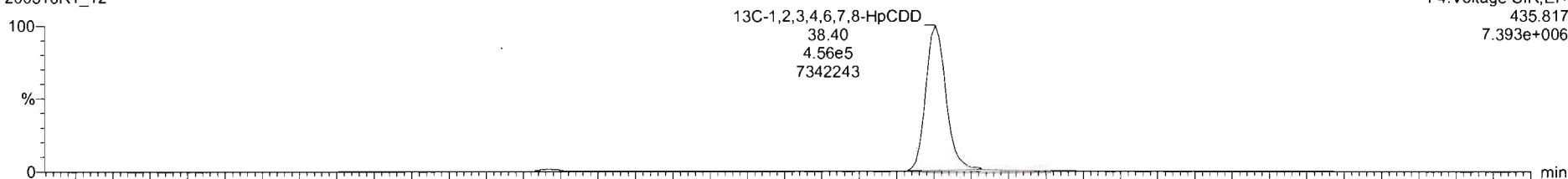
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1.503e+005

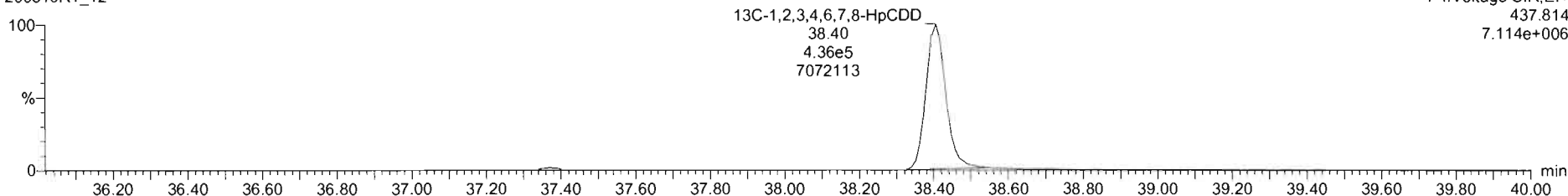
13C-1,2,3,4,6,7,8-HpCDD

200516R1_12



F4:Voltage SIR,EI+
435.817
7.393e+006

200516R1_12



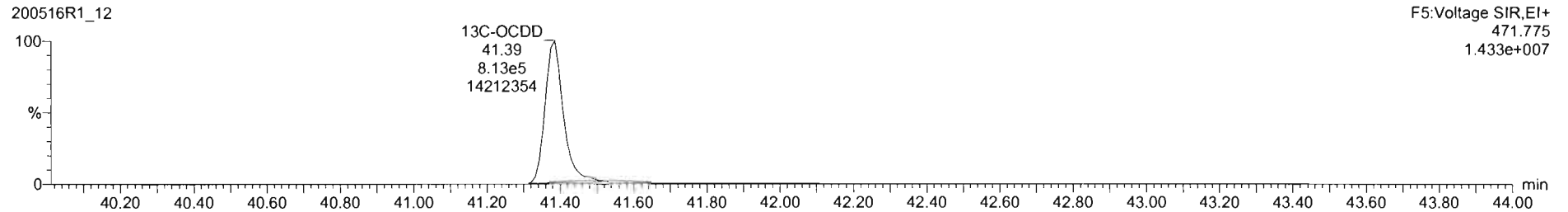
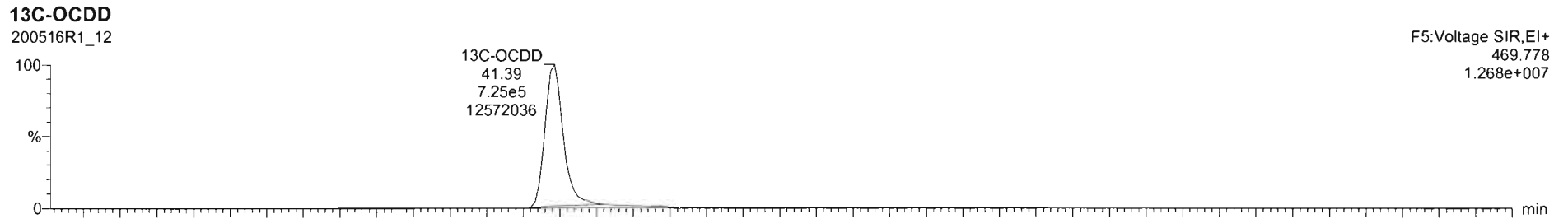
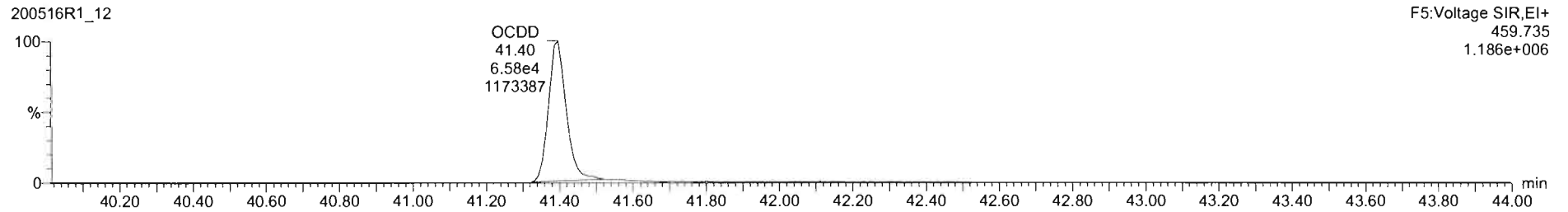
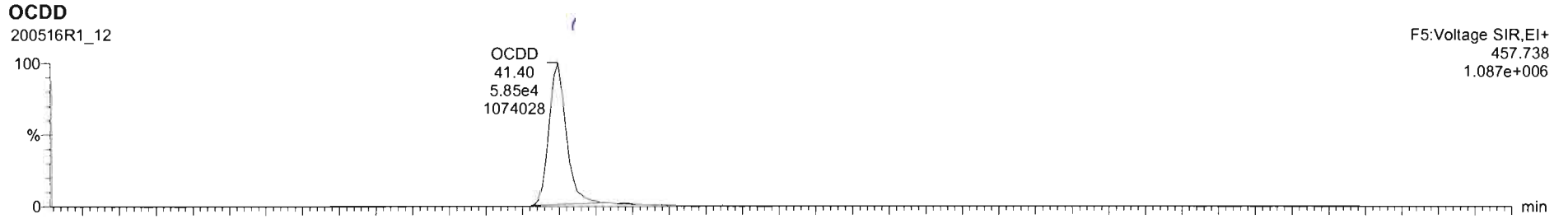
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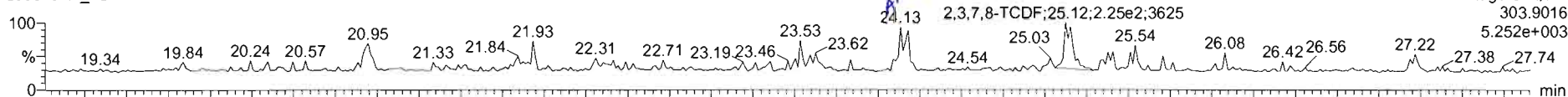
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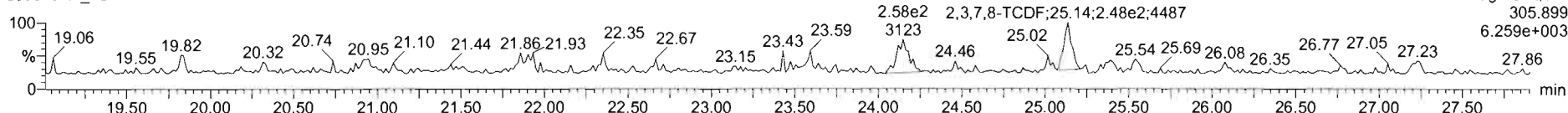
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2,3,7,8-TCDF

200516R1_12

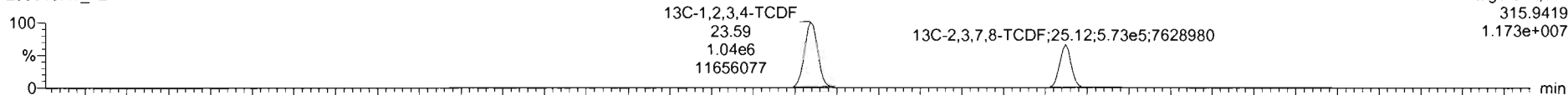


200516R1_12

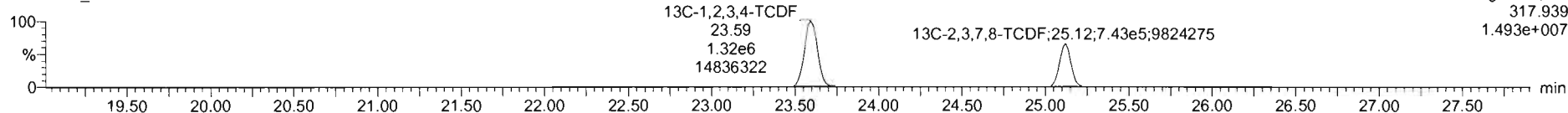


13C-2,3,7,8-TCDF

200516R1_12

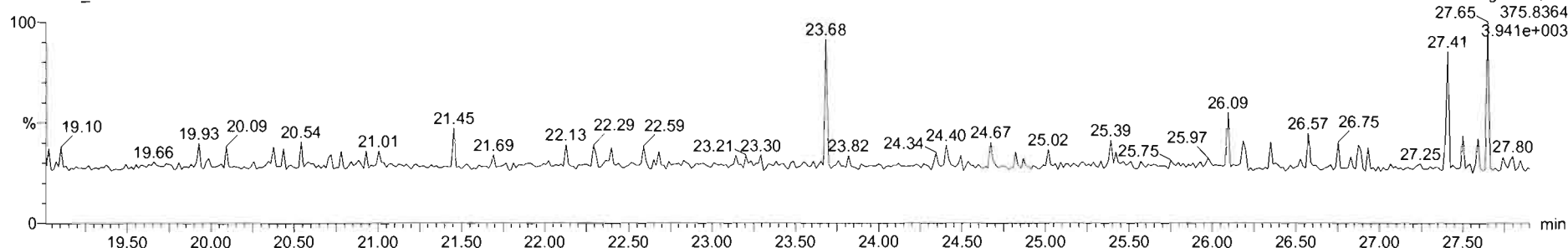


200516R1_12



DPE1

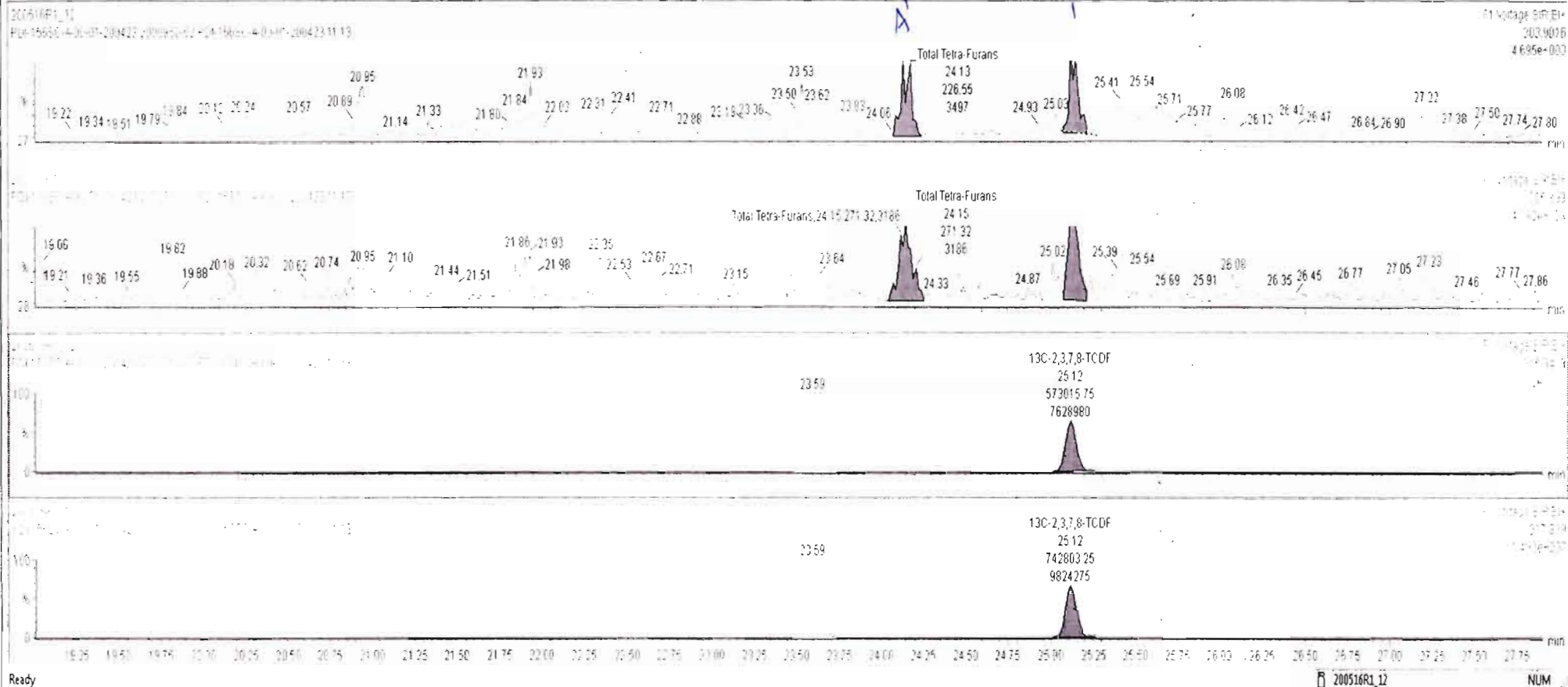
200516R1_12



200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	nly	RRF	wVol	RT	RRT	Conc.	%Rec	DL	EMPC
41 Total Hexa-Dioxins				0.9145	10.049			1.55	0.0723	1.67	
42 Total Hexa-Dioxins				0.8979	10.049			7.94	0.0364	7.94	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	24.13	2.268e2	2.713e2	0.84	NO	0.095678	0.00000
2 2,3,7,8-TCDF	25.12	2.107e2	2.930e2	0.72	NO	0.096814	0.096814



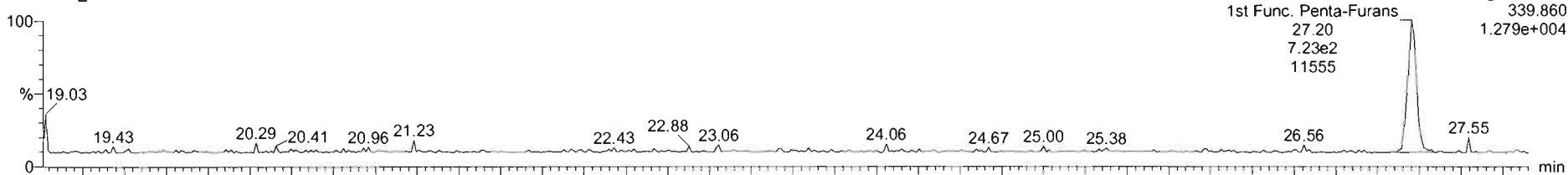
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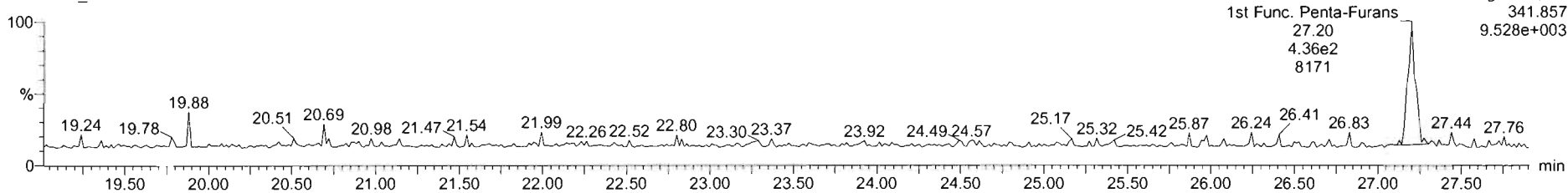
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1st Func. Penta-Furans

200516R1_12

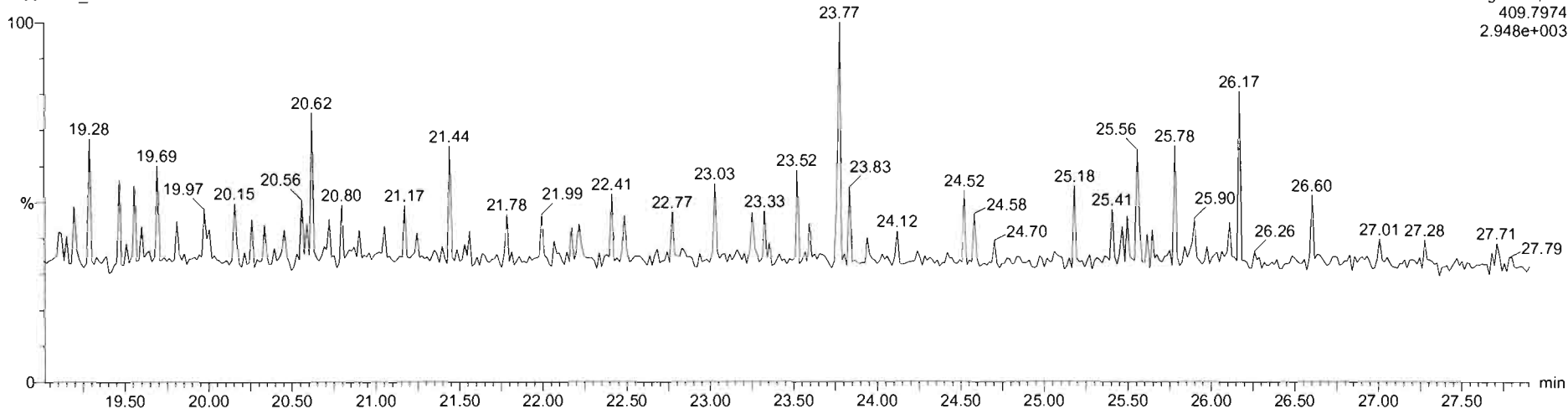


200516R1_12



DPE6

200516R1_12



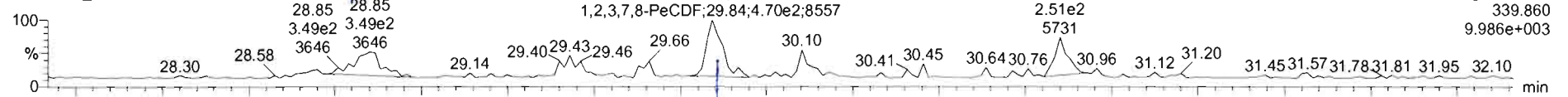
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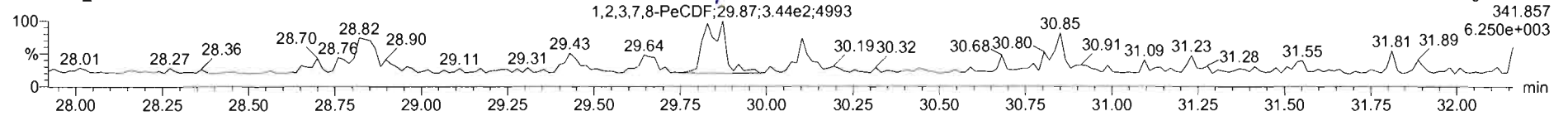
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1,2,3,7,8-PeCDF

200516R1_12

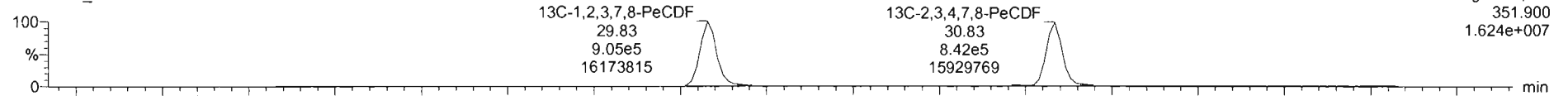


200516R1_12

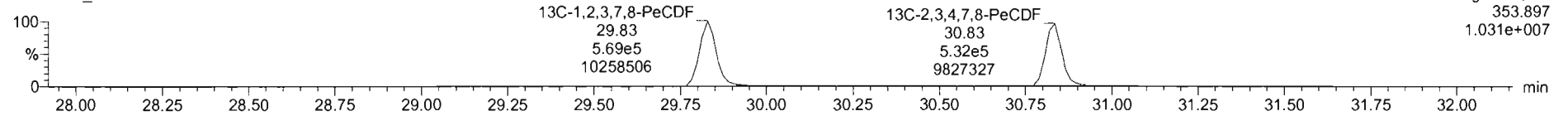


13C-1,2,3,7,8-PeCDF

200516R1_12

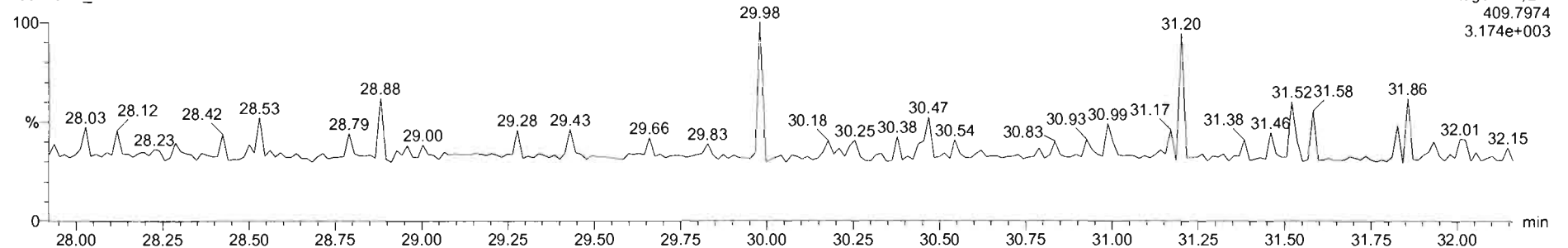


200516R1_12



DPE2

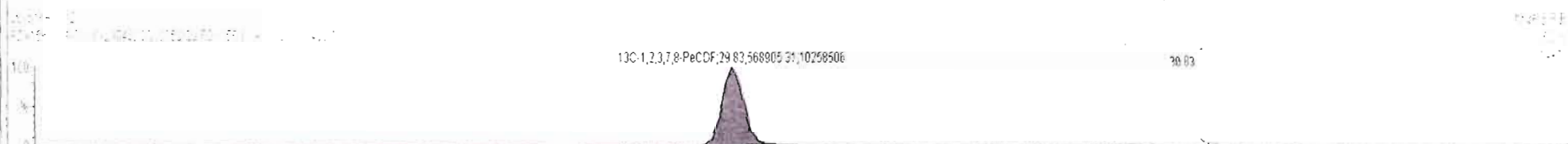
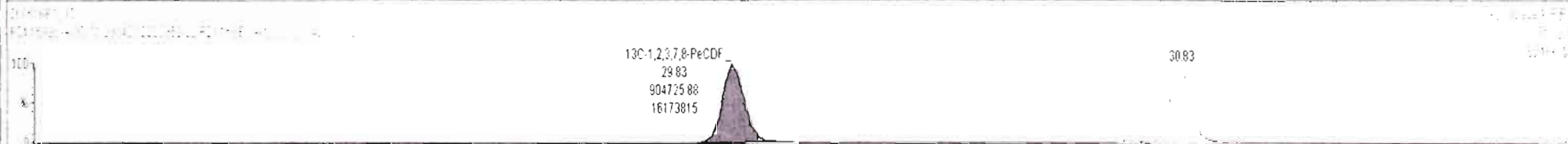
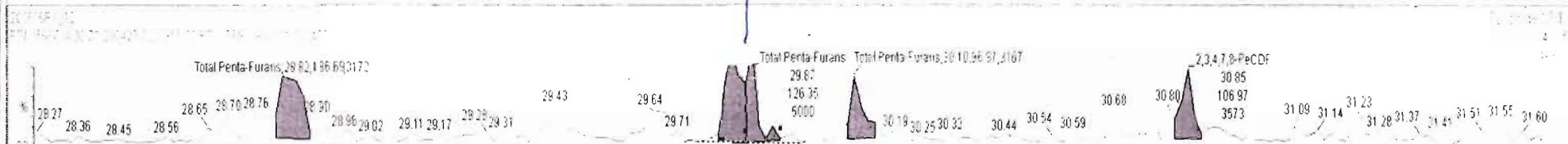
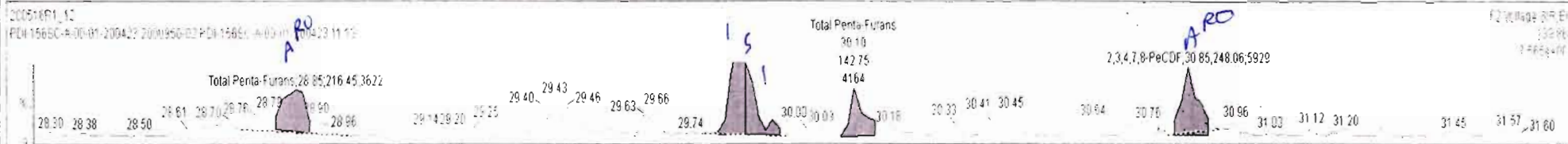
200516R1_12



200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.049			0.155		0.0407	0.251
46 Total Hexa-Furans				0.9217	10.049			0.685		0.0277	0.885

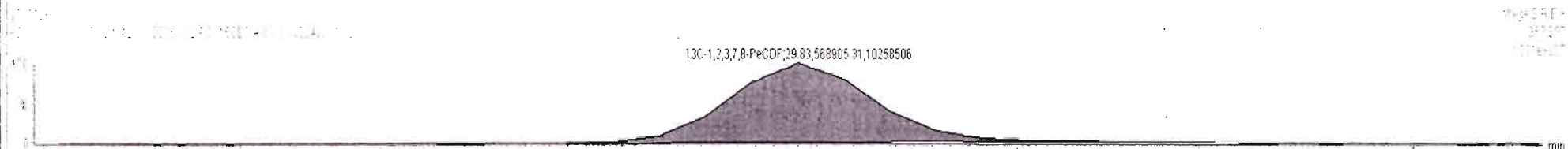
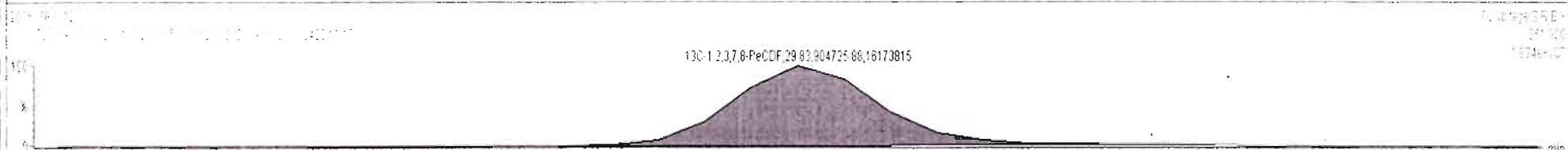
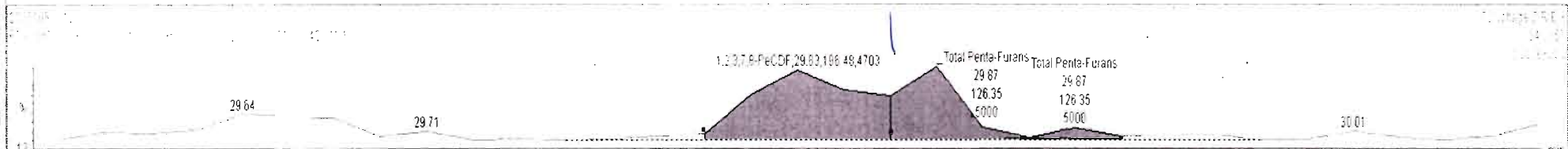
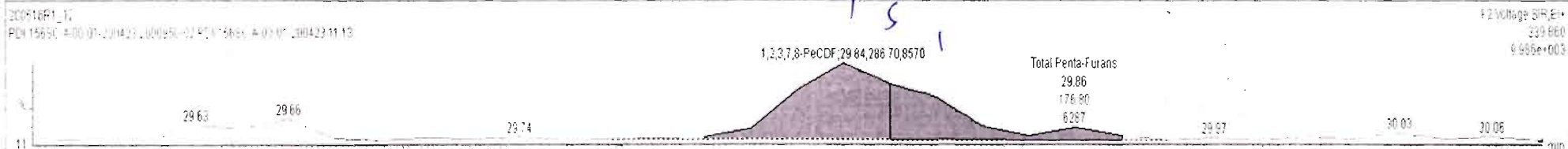
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.85	2.164e2	1.867e2	1.16	YES	0.054690	0.00000
2 1,2,3,7,8-PeCDF	29.84	2.867e2	1.965e2	1.46	NO	0.071697	0.071697
3 Total Penta-Furans	29.66	1.768e2	1.264e2	1.40	NO	0.046559	0.046559
4 Total Penta-Furans	30.10	1.427e2	9.687e1	1.47	NO	0.036801	0.036801
5 2,3,4,7,8-PeCDF	30.85	2.481e2	1.070e2	2.32	YES	0.040688	0.00000



200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	w/Mol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.049			0.155	0.0407	0.251	
46 Total Hexa-Furans				0.9217	10.049			0.685	0.0277	0.895	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 2,3,4,7,8-PeCDF	30.85	2.481e2	1.070e2	2.32	YES	0.040888	0.00000
2 1,2,3,7,8-PeCDF	29.84	2.867e2	1.965e2	1.46	NO	0.071697	0.071697
3 Total Penta-Furans	28.85	2.164e2	1.867e2	1.15	YES	0.054690	0.00000
4 Total Penta-Furans	29.86	1.768e2	1.264e2	1.40	NO	0.046559	0.046559
5 Total Penta-Furans	30.10	1.427e2	9.687e1	1.47	NO	0.036801	0.036801



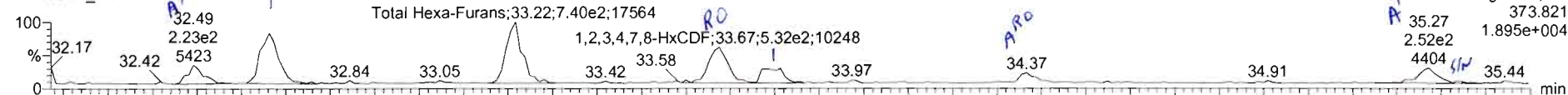
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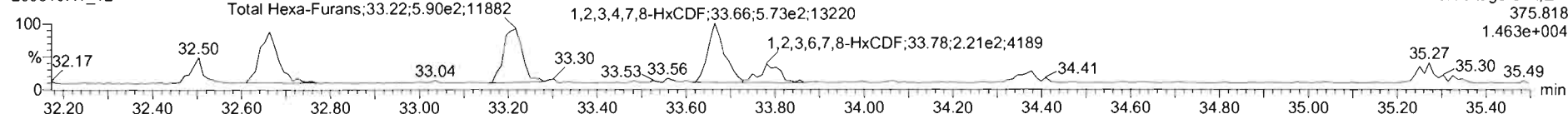
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1,2,3,4,7,8-HxCDF

200516R1_12

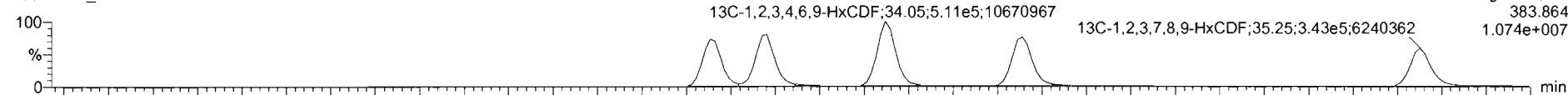


200516R1_12

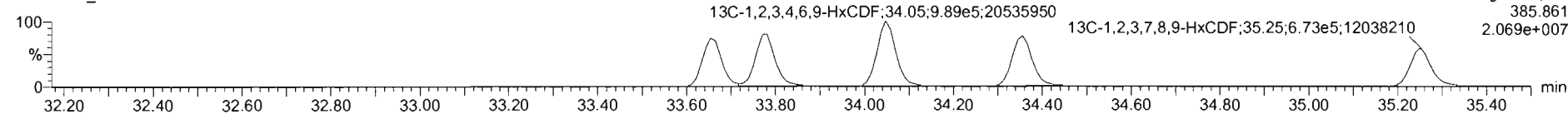


13C-1,2,3,4,7,8-HxCDF

200516R1_12

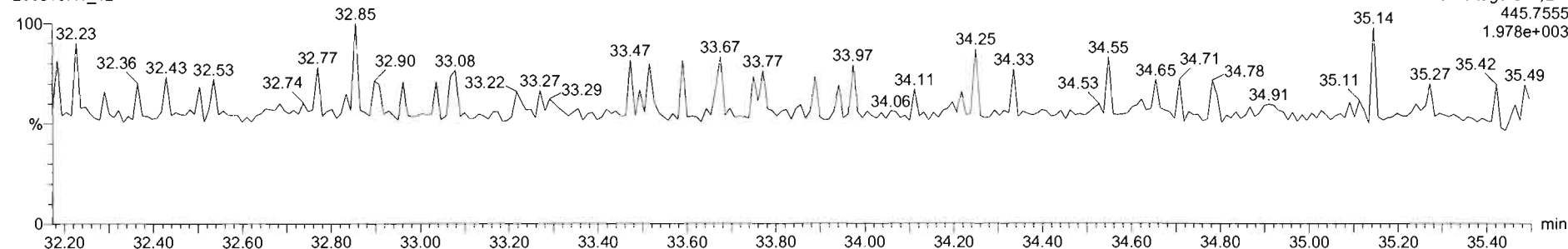


200516R1_12



DPE3

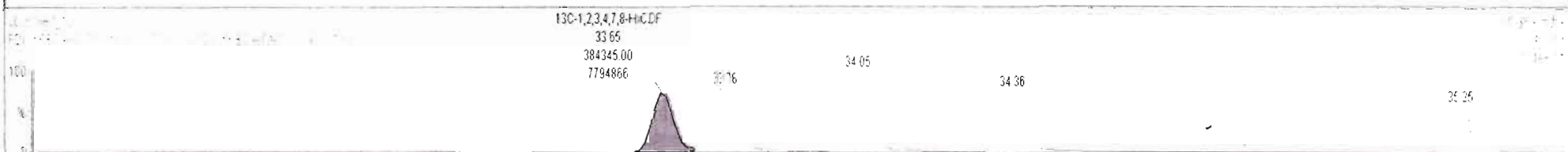
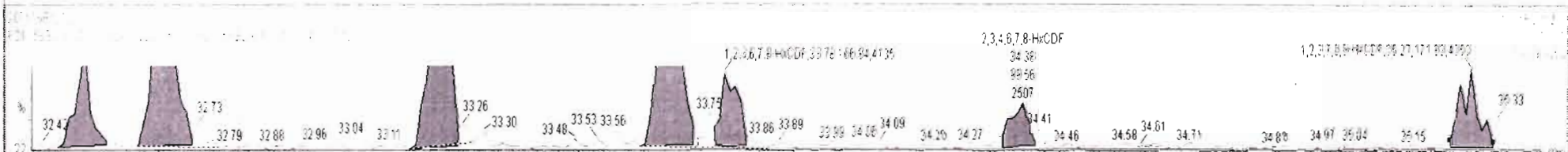
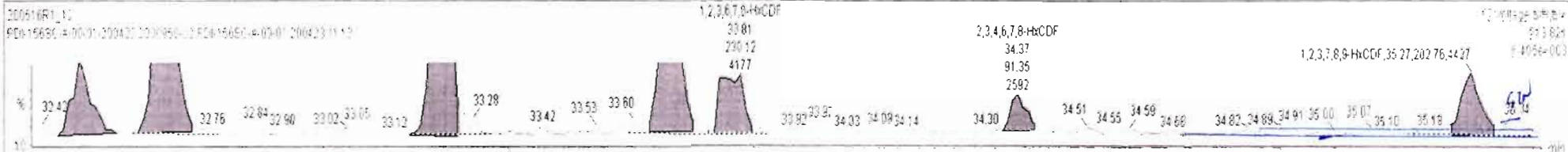
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200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

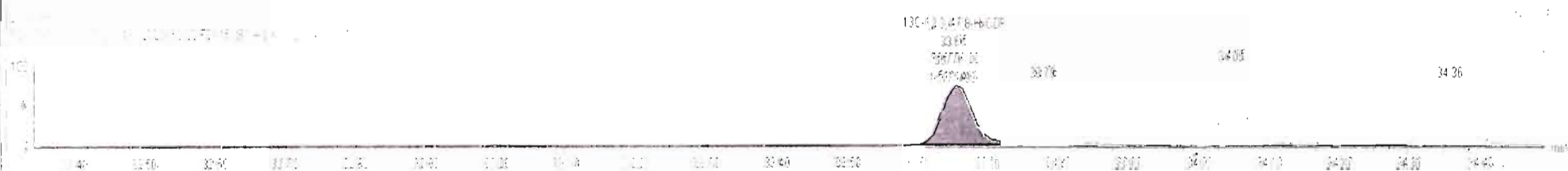
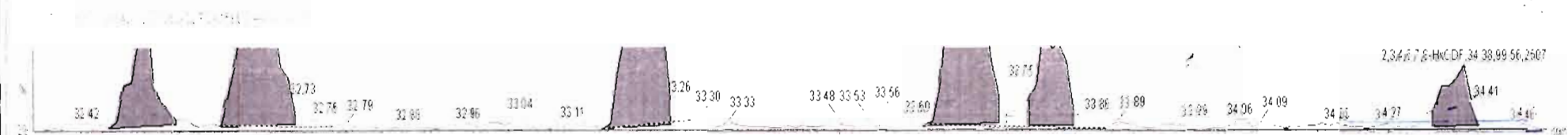
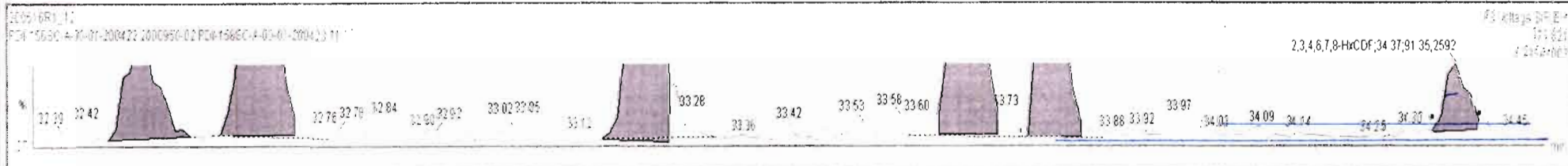
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Fenta-Furans			0.9102	10.049			0.108		0.0407	0.204

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	Total Hexa-Furans	32.48	2.232e2	1.755e2	1.27	NO	0.073549
2	Total Hexa-Furans	32.66	6.670e2	5.309e2	1.26	NO	0.22098
3	Total Hexa-Furans	33.22	6.966e2	5.735e2	1.21	NO	0.23430
4	1,2,3,4,7,8-HxCDF	33.67	4.797e2	5.587e2	0.86	YES	0.17223
5	1,2,3,6,7,8-HxCDF	33.81	2.301e2	1.668e2	1.38	NO	0.070842
6	2,3,4,6,7,8-HxCDF	34.37	9.135e1	9.956e1	0.92	YES	0.028495
7	1,2,3,7,8,9-HxCDF	35.27	2.028e2	1.718e2	1.18	NO	0.084354



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Pento-Furans				0.9102	10.049			0.108		0.0407	0.204

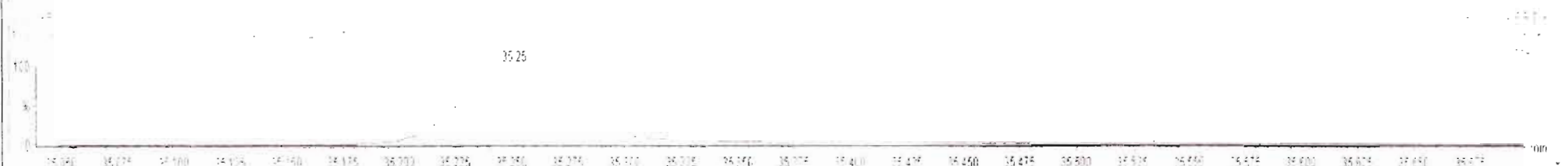
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.49	2.232e2	1.755e2	1.27	NO	0.073549	0.073549
2 Total Hexa-Furans	32.65	6.670e2	5.309e2	1.26	NO	0.22098	0.22098
3 Total Hexa-Furans	33.22	6.966e2	5.735e2	1.21	NO	0.23430	0.23430
4 1,2,3,4,7,8-HxCDF	33.67	4.797e2	5.587e2	0.86	YES	0.17223	0.00000
5 1,2,3,6,7,8-HxCDF	33.81	2.301e2	1.868e2	1.38	NO	0.070842	0.070842
6 2,3,4,6,7,8-HxCDF	34.37	9.135e1	9.956e1	0.92	YES	0.028495	0.00000
7 1,2,3,7,8,9-HxCDF	35.27	2.028e2	1.719e2	1.18	NO	0.084954	0.084954



200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	UL	EMPC
45 Total Penta-Furans				0.9102	10.048			0.105		0.0407	0.204

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.66	6.965e2	5.502e2	1.25	NO	0.23164	0.23164
2 Total Hexa-Furans	33.22	7.402e2	5.902e2	1.25	NO	0.24543	0.24543
3 1,2,3,4,7,8-HxCDF	33.67	5.320e2	5.734e2	0.93	YES	0.19103	0.00000
4 1,2,3,6,7,8-HxCDF	33.81	2.473e2	2.207e2	1.12	NO	0.063530	0.063530
5 1,2,3,7,8,9-HxCDF	35.27	2.028e2	1.718e2	1.18	NO	0.084954	0.084954
6 Total Hexa-Furans	35.31	2.027e1	3.473e1	0.58	YES	0.00675..	0.00000



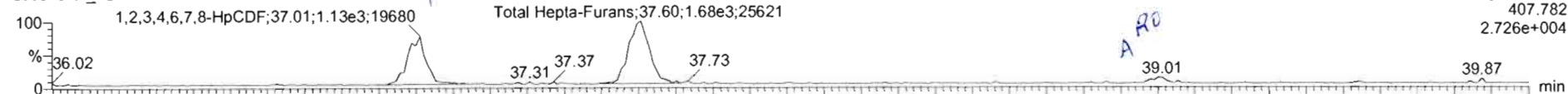
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

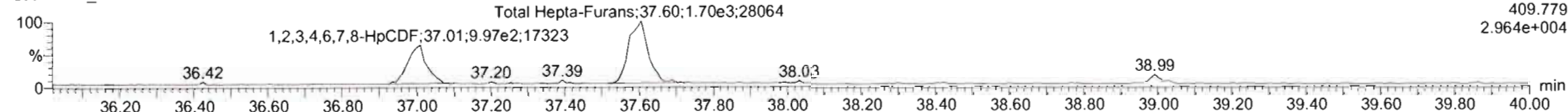
Name: 200516R1_12, Date: 16-May-2020, Time: 17:40:15, ID: 2000950-02 PDI-156SC-A-00-01-200423 11.13, Description: PDI-156SC-A-00-01-200423

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

200516R1_12

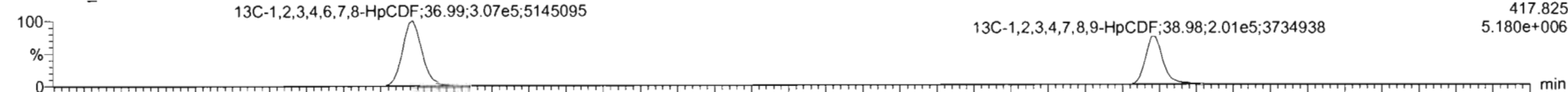


200516R1_12

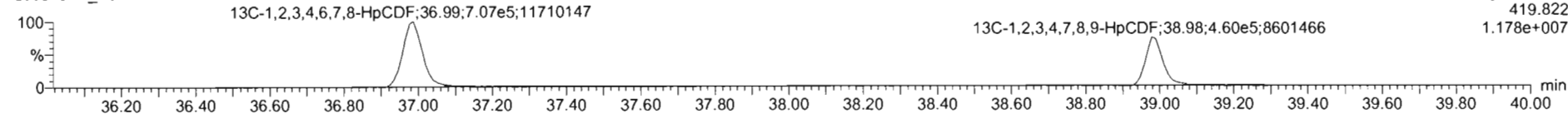


13C-1,2,3,4,6,7,8-HpCDF

200516R1_12

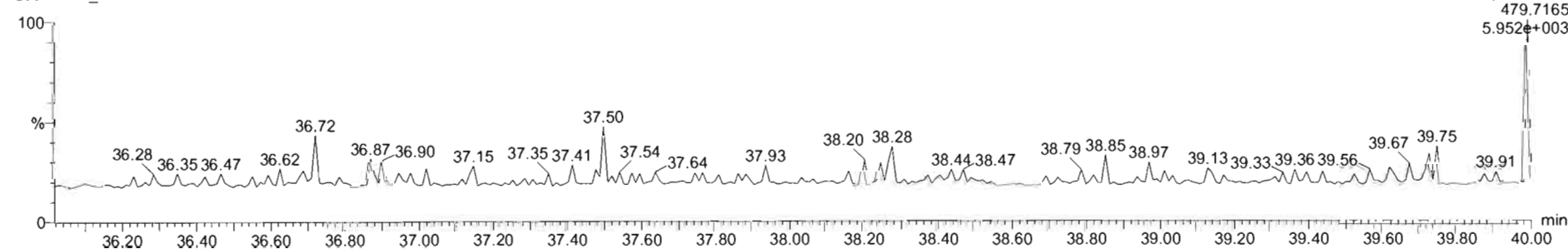


200516R1_12



DPE4

200516R1_12

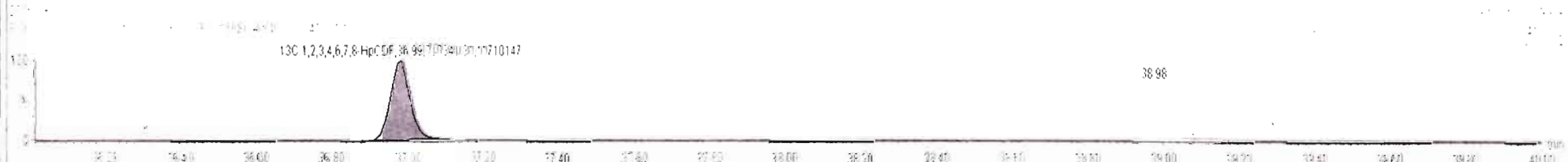
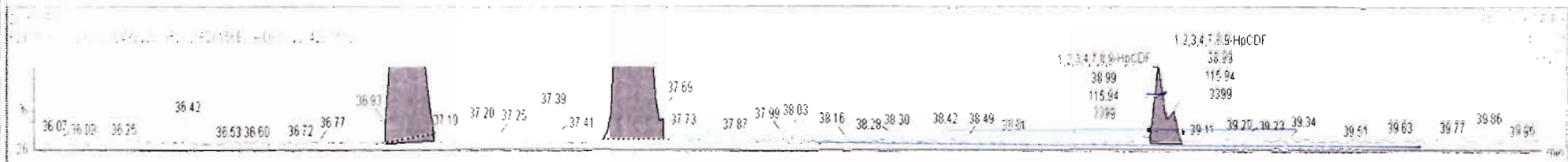
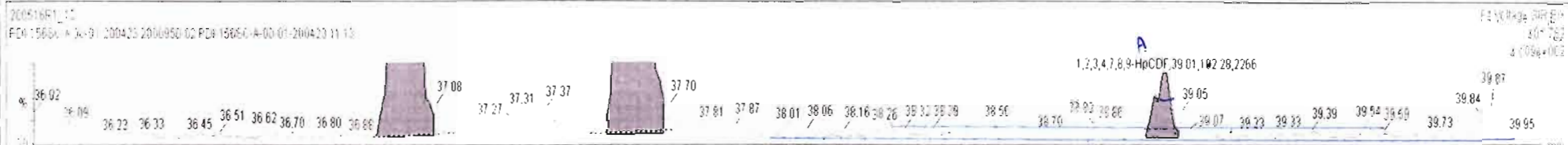




200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
47 Total Hepta-Furans				0.8712	10.049			1.38		0.0340	1.45

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.01	1.105e3	1.001e3	1.10	NO	0.47432	0.47432
2 Total Hepta-Furans	37.60	1.668e3	1.684e3	0.99	NO	0.91438	0.91438
3 1,2,3,4,7,8,9-HpCDF	39.01	1.023e2	1.159e2	0.88	YES	0.059737	0.00000

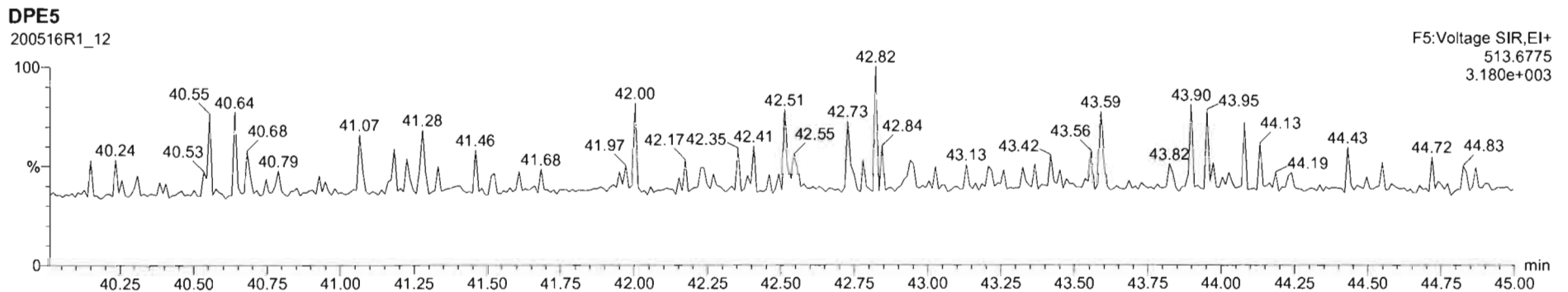
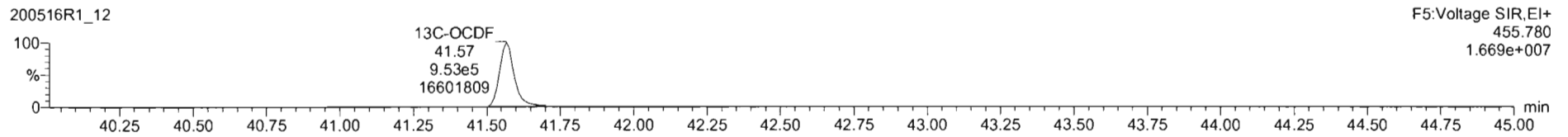
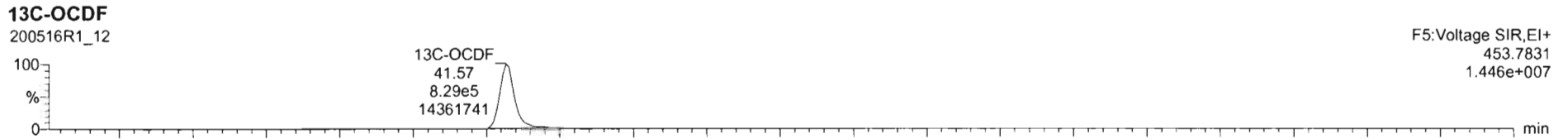
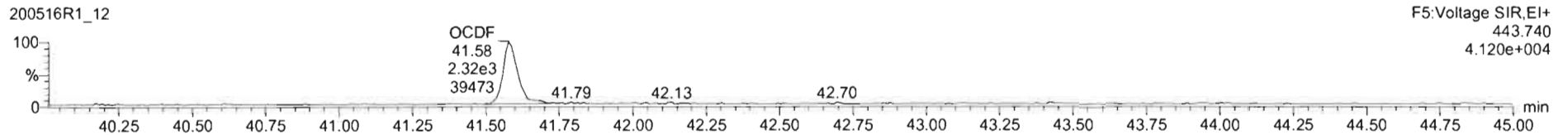
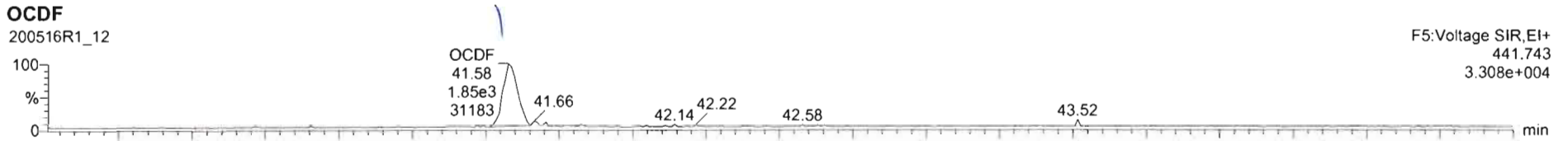


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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_12, Date: 16-May-2020, Time: 17:40:15, ID: 2000950-02 PDI-156SC-A-00-01-200423 11.13, Description: PDI-156SC-A-00-01-200423



200516R1_12 - 2000950-02 PDI-156SC-A-00-01-200423 11.13 - PDI-156SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
17	OCDF	4.15e3	0.83	NO	0.8021	10.049	41.58	1.000	1.14	0.0468	1.14

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

200516R1_12 PDI-156SC-A-00-01-200423 11.13 PDI-156SC-A-00-01-200423 11.13



200516R1_12 PDI-156SC-A-00-01-200423 11.13 PDI-156SC-A-00-01-200423 11.13



200516R1_12 PDI-156SC-A-00-01-200423 11.13 PDI-156SC-A-00-01-200423 11.13



200516R1_12 PDI-156SC-A-00-01-200423 11.13 PDI-156SC-A-00-01-200423 11.13

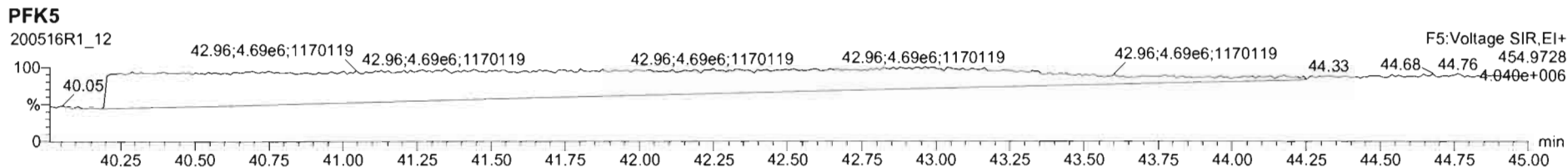
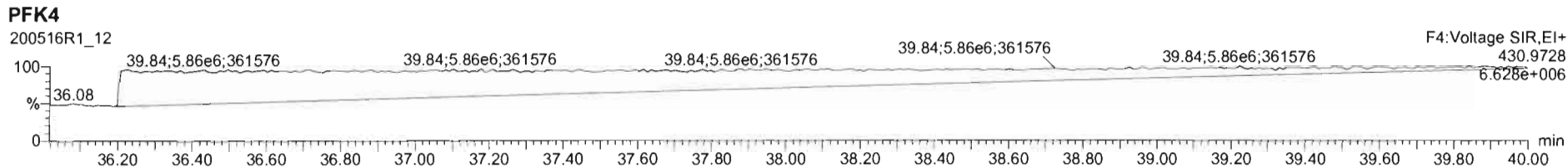
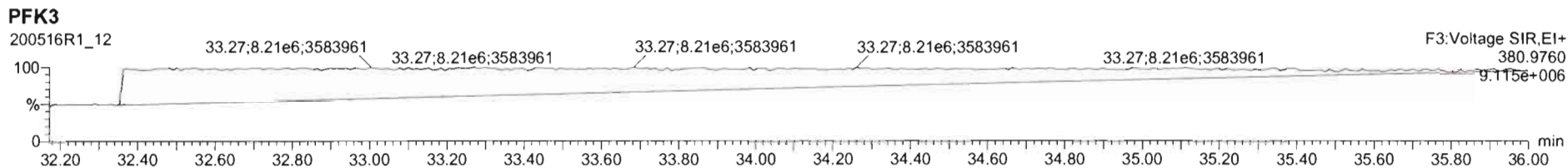
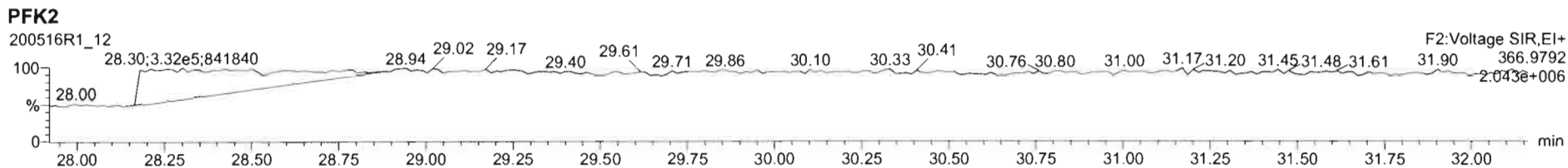
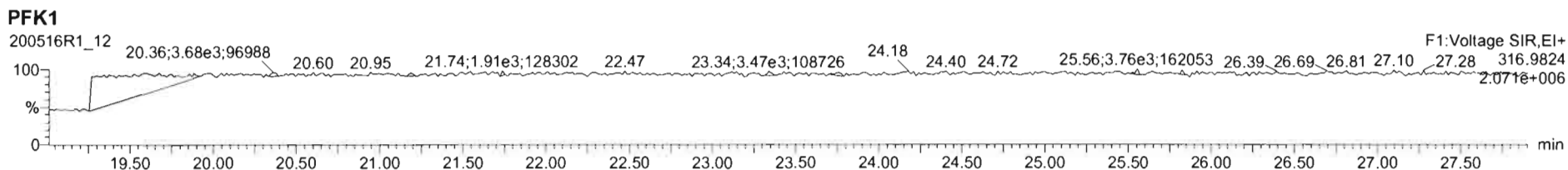


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Name: 200516R1_12, Date: 16-May-2020, Time: 17:40:15, ID: 2000950-02 PDI-156SC-A-00-01-200423 11.13, Description: PDI-156SC-A-00-01-200423



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-13.qld

Last Altered: Monday, May 18, 2020 14:51:54 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:02:20 Pacific Daylight Time

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07 05/27/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423

#	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	0.947	10.007	26.081		1.001				0.0408	
2	2 1,2,3,7,8-PeCDD	2.50e2	0.87	YES	0.942	10.007	31.162	31.14	1.001	1.000	0.033797		0.0449	0.0295
3	3 1,2,3,4,7,8-HxCDD	6.79e2	1.24	NO	1.06	10.007	34.537	34.63	1.000	1.003	0.10657		0.0442	0.107
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.007	34.623		1.000				0.0429	
5	5 1,2,3,7,8,9-HxCDD	4.70e2	1.27	NO	0.915	10.007	34.910	34.90	1.000	1.000	0.071718		0.0460	0.0717
6	6 1,2,3,4,6,7,8-HpCDD	1.09e4	1.07	NO	0.898	10.007	38.415	38.41	1.000	1.000	2.2497		0.0580	2.25
7	7 OCDD	1.01e5	0.88	NO	0.933	10.007	41.386	41.40	1.000	1.000	24.289		0.0974	24.3
8	8 2,3,7,8-TCDF	3.38e2	0.89	YES	0.787	10.007	25.147	25.12	1.001	1.000	0.040017		0.0123	0.0375
9	9 1,2,3,7,8-PeCDF	3.00e2	1.42	NO	0.910	10.007	29.849	29.83	1.001	1.000	0.030843		0.00965	0.0308
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.007	30.866		1.001				0.0238	
11	11 1,2,3,4,7,8-HxCDF	8.65e2	1.18	NO	0.878	10.007	33.653	33.66	1.000	1.000	0.12467		0.0231	0.125
12	12 1,2,3,6,7,8-HxCDF	3.59e2	1.22	NO	0.874	10.007	33.791	33.78	1.000	1.000	0.046867		0.0218	0.0469
13	13 2,3,4,6,7,8-HxCDF	1.86e2	1.26	NO	0.922	10.007	34.390	34.37	1.001	1.000	0.024684		0.0231	0.0247
14	14 1,2,3,7,8,9-HxCDF	2.87e2	0.92	YES	0.864	10.007	35.251	35.25	1.000	1.000	0.049852		0.0330	0.0430
15	15 1,2,3,4,6,7,8-HpCDF	1.51e3	0.87	YES	0.871	10.007	37.024	37.00	1.001	1.000	0.28443		0.0258	0.259
16	16 1,2,3,4,7,8,9-HpCDF	1.78e2	1.06	NO	1.01	10.007	38.989	39.02	1.000	1.001	0.042029		0.0281	0.0420
17	17 OCDF	3.18e3	0.91	NO	0.802	10.007	41.567	41.58	1.000	1.000	0.76269		0.0371	0.763
18	18 13C-2,3,7,8-TCDD	1.71e6	0.78	NO	1.16	10.007	26.031	26.05	1.026	1.027	159.57	79.8	0.143	
19	19 13C-1,2,3,7,8-PeCDD	1.57e6	0.63	NO	0.847	10.007	31.123	31.14	1.227	1.228	199.57	99.9	0.0954	
20	20 13C-1,2,3,4,7,8-HxCDD	1.20e6	1.27	NO	0.750	10.007	34.528	34.53	1.014	1.014	184.61	92.4	0.243	
21	21 13C-1,2,3,6,7,8-HxCDD	1.48e6	1.27	NO	0.963	10.007	34.640	34.62	1.017	1.017	178.00	89.1	0.189	
22	22 13C-1,2,3,7,8,9-HxCDD	1.43e6	1.25	NO	0.838	10.007	34.909	34.90	1.025	1.025	197.57	98.9	0.218	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.07e6	1.06	NO	0.641	10.007	38.403	38.40	1.128	1.128	193.55	96.8	0.234	
24	24 13C-OCDD	1.78e6	0.89	NO	0.586	10.007	41.399	41.39	1.216	1.216	352.06	88.1	0.271	
25	25 13C-2,3,7,8-TCDF	2.14e6	0.78	NO	1.03	10.007	25.090	25.12	0.989	0.991	154.93	77.5	0.170	
26	26 13C-1,2,3,7,8-PeCDF	2.14e6	1.57	NO	0.845	10.007	29.812	29.83	1.176	1.176	188.78	94.5	0.323	
27	27 13C-2,3,4,7,8-PeCDF	2.06e6	1.59	NO	0.814	10.007	30.803	30.83	1.215	1.216	189.27	94.7	0.335	
28	28 13C-1,2,3,4,7,8-HxCDF	1.58e6	0.50	NO	1.00	10.007	33.667	33.65	0.989	0.988	181.64	90.9	0.260	
29	29 13C-1,2,3,6,7,8-HxCDF	1.75e6	0.51	NO	1.14	10.007	33.789	33.78	0.992	0.992	178.41	89.3	0.230	
30	30 13C-2,3,4,6,7,8-HxCDF	1.64e6	0.51	NO	1.02	10.007	34.358	34.36	1.009	1.009	185.14	92.6	0.256	
31	31 13C-1,2,3,7,8,9-HxCDF	1.34e6	0.51	NO	0.845	10.007	35.250	35.25	1.035	1.035	183.66	91.9	0.310	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-13.qld

Last Altered: Monday, May 18, 2020 14:51:54 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:02:20 Pacific Daylight Time

Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.22e6	0.44	NO	0.771	10.007	36.983	36.99	1.086	1.086	183.15	91.6	0.240	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.35e5	0.43	NO	0.482	10.007	38.995	38.99	1.145	1.145	200.19	100	0.384	
34	34 13C-OCDF	2.07e6	0.87	NO	0.669	10.007	41.569	41.57	1.221	1.221	358.90	89.8	0.234	
35	35 37Cl-2,3,7,8-TCDD	6.95e5			1.10	10.007	26.061	26.07	1.028	1.028	68.253	85.4	0.0282	
36	36 13C-1,2,3,4-TCDD	1.85e6	0.79	NO	1.00	10.007	25.350	25.36	1.000	1.000	199.86	100	0.165	
37	37 13C-1,2,3,4-TCDF	2.67e6	0.79	NO	1.00	10.007	23.560	23.59	1.000	1.000	199.86	100	0.176	
38	38 13C-1,2,3,4,6,9-HxCDF	1.73e6	0.51	NO	1.00	10.007	34.000	34.05	1.000	1.000	199.86	100	0.262	
39	39 Total Tetra-Dioxins				0.947	10.007	24.620		0.000		0.10620		0.0408	0.106
40	40 Total Penta-Dioxins				0.942	10.007	29.960		0.000		0.00000		0.0208	0.124
41	41 Total Hexa-Dioxins				0.915	10.007	33.635		0.000		1.3254		0.0465	1.33
42	42 Total Hepta-Dioxins				0.898	10.007	37.640		0.000		7.3352		0.0580	7.34
43	43 Total Tetra-Furans				0.787	10.007	23.610		0.000		0.048455		0.0123	0.128
44	44 1st Func. Penta-Furans				0.910	10.007	27.090		0.000		0.00000		0.00328	0.110
45	45 Total Penta-Furans				0.910	10.007	29.275		0.000		0.030843		0.00974	0.0862
46	46 Total Hexa-Furans				0.922	10.007	33.555		0.000		0.37514		0.0238	0.598
47	47 Total Hepta-Furans				0.871	10.007	37.835		0.000		0.042029		0.0286	0.825

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Dataset: U:\VG12.PRO\Results\200516R1\200516R1-13.qld

Last Altered: Monday, May 18, 2020 14:51:54 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:02:20 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.80	4.479e3	5.882e3	3.977e2	4.652e2	0.85	NO	8.630e2	0.10620	0.10620	0.0408

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.90	2.793e3	3.927e3	1.602e2	2.094e2	0.77	YES	0.000e0	0.00000	0.046203	0.0449
2	Total Penta-Dioxins	29.40	3.807e3	4.470e3	1.760e2	2.169e2	0.81	YES	0.000e0	0.00000	0.047863	0.0208
3	1,2,3,7,8-PeCDD	31.14	2.653e3	2.653e3	1.160e2	1.337e2	0.87	YES	2.497e2	0.00000	0.029495	0.0449

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	5.075e4	4.010e4	2.551e3	1.965e3	1.30	NO	4.517e3	0.72047	0.72047	0.0465
2	Total Hexa-Dioxins	33.86	2.279e4	1.901e4	1.486e3	1.189e3	1.25	NO	2.675e3	0.42665	0.42665	0.0465
3	1,2,3,4,7,8-HxCDD	34.63	8.836e3	7.656e3	3.757e2	3.035e2	1.24	NO	6.792e2	0.10657	0.10657	0.0442
4	1,2,3,7,8,9-HxCDD	34.90	5.178e3	4.273e3	2.625e2	2.073e2	1.27	NO	4.698e2	0.071718	0.071718	0.0460

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	2.173e5	1.916e5	1.264e4	1.189e4	1.06	NO	2.453e4	5.0855	5.0855	0.0580
2	1,2,3,4,6,7,8-HpCDD	38.41	8.923e4	9.291e4	5.621e3	5.230e3	1.07	NO	1.085e4	2.2497	2.2497	0.0580

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.95	2.115e3	3.186e3	1.731e2	2.363e2	0.73	NO	4.093e2	0.048455	0.048455	0.0123
2	Total Tetra-Furans	24.13	2.674e3	4.180e3	1.551e2	2.548e2	0.61	YES	0.000e0	0.00000	0.042199	0.0123
3	2,3,7,8-TCDF	25.12	2.982e3	2.627e3	1.591e2	1.789e2	0.89	YES	3.380e2	0.00000	0.037491	0.0123

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Dataset: U:\VG12.PRO\Results\200516R1\200516R1-13.qld

Last Altered: Monday, May 18, 2020 14:51:54 Pacific Daylight Time

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Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.20	1.191e4	5.623e3	7.434e2	4.116e2	1.81	YES	0.000e0	0.00000	0.10983	0.00949

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.84	4.649e3	4.648e3	3.218e2	2.751e2	1.17	YES	0.000e0	0.00000	0.055390	0.00974
2	1,2,3,7,8-PeCDF	29.83	3.869e3	2.611e3	1.758e2	1.241e2	1.42	NO	2.999e2	0.030843	0.030843	0.00965

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.47	3.452e3	2.565e3	1.624e2	1.273e2	1.28	NO	2.897e2	0.039818	0.039818	0.0238
2	Total Hexa-Furans	32.65	1.233e4	1.100e4	5.443e2	4.677e2	1.16	NO	1.012e3	0.13910	0.13910	0.0238
3	Total Hexa-Furans	33.21	1.591e4	1.064e4	7.501e2	4.991e2	1.50	YES	0.000e0	0.00000	0.15368	0.0238
4	1,2,3,4,7,8-HxCDF	33.66	8.847e3	7.950e3	4.673e2	3.973e2	1.18	NO	8.646e2	0.12467	0.12467	0.0231
5	1,2,3,6,7,8-HxCDF	33.78	4.370e3	5.319e3	1.976e2	1.619e2	1.22	NO	3.594e2	0.046867	0.046867	0.0218
6	2,3,4,6,7,8-HxCDF	34.37	3.480e3	2.717e3	1.037e2	8.257e1	1.26	NO	1.863e2	0.024684	0.024684	0.0231
7	1,2,3,7,8,9-HxCDF	35.25	3.919e3	5.017e3	1.380e2	1.494e2	0.92	YES	2.874e2	0.00000	0.042975	0.0330
8	Total Hexa-Furans	35.27	3.614e3	5.342e3	1.059e2	1.050e2	1.01	YES	0.000e0	0.00000	0.026284	0.0238

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.00	1.175e4	1.393e4	7.041e2	8.102e2	0.87	YES	1.514e3	0.00000	0.25940	0.0258
2	Total Hepta-Furans	37.60	1.831e4	2.019e4	1.197e3	1.380e3	0.87	YES	0.000e0	0.00000	0.52387	0.0286
3	1,2,3,4,7,8,9-HpCDF	39.02	1.663e3	2.072e3	9.131e1	8.628e1	1.06	NO	1.776e2	0.042029	0.042029	0.0281

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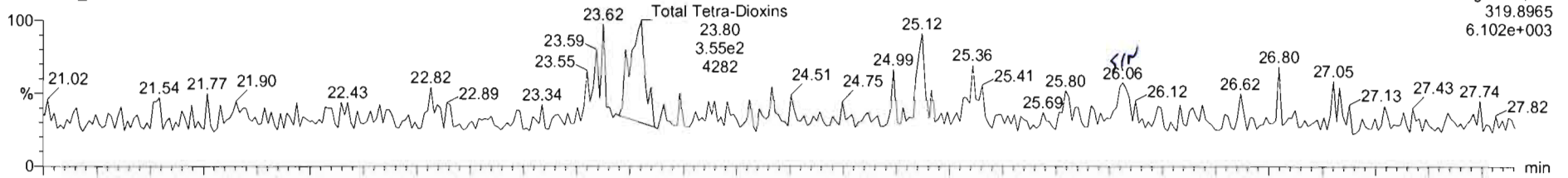
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ly 05-18-2020

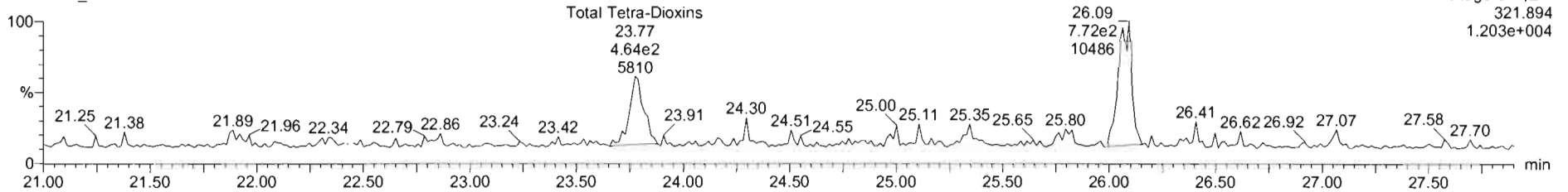
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2,3,7,8-TCDD

200516R1_13

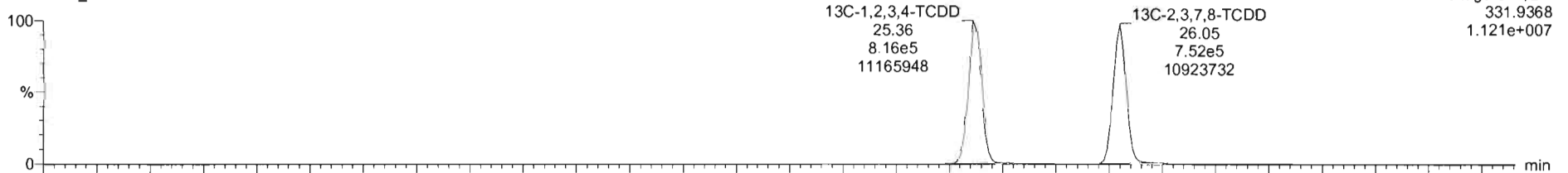


200516R1_13

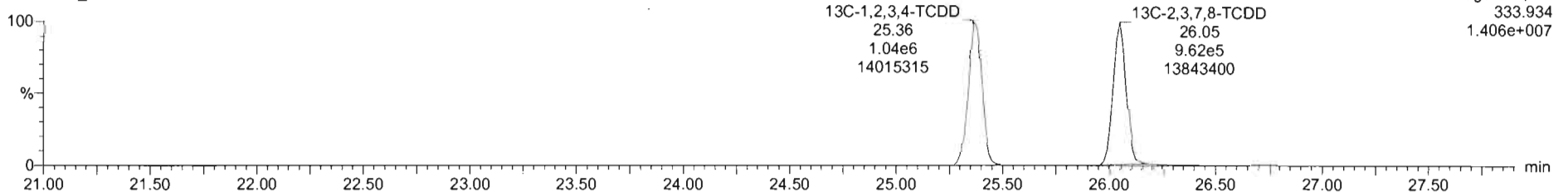


13C-2,3,7,8-TCDD

200516R1_13

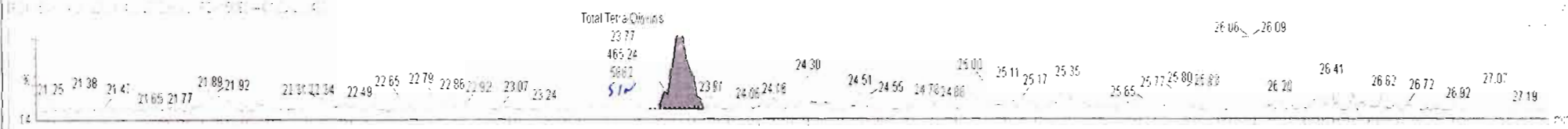
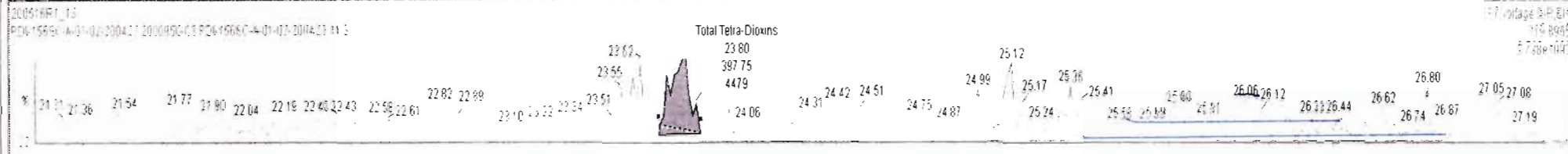


200516R1_13



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.007			0.106		0.0468	0.106

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.80	3.977e2	4.652e2	0.85	NO	0.10620	0.10620



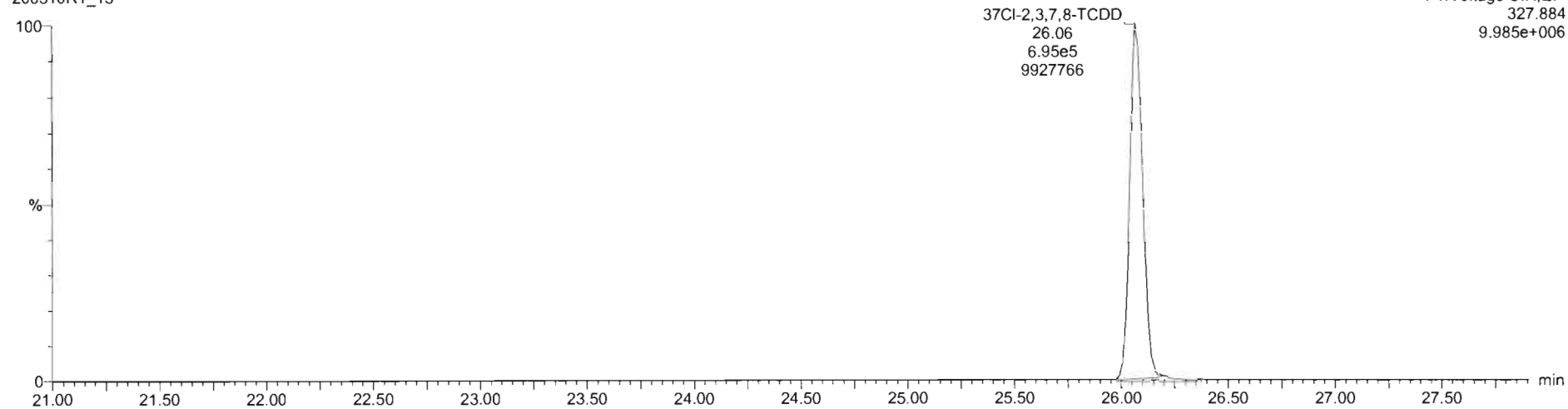
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Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423

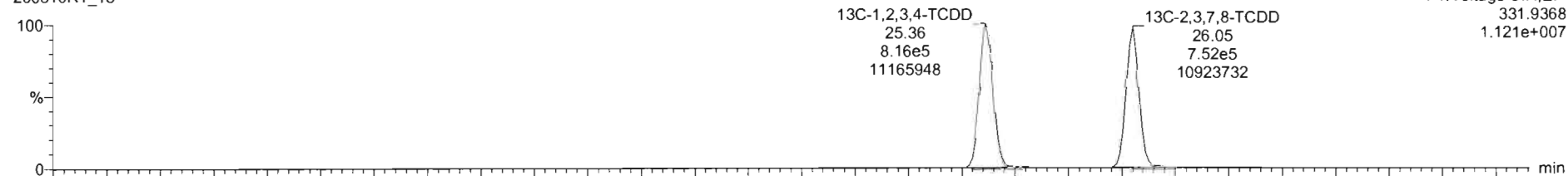
37Cl-2,3,7,8-TCDD

200516R1_13

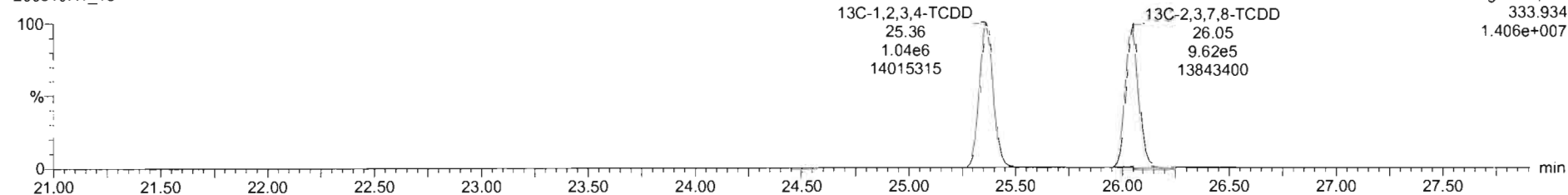


13C-1,2,3,4-TCDD

200516R1_13



200516R1_13



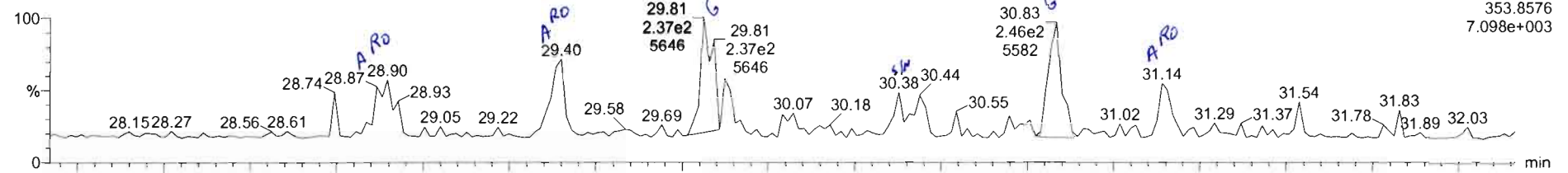
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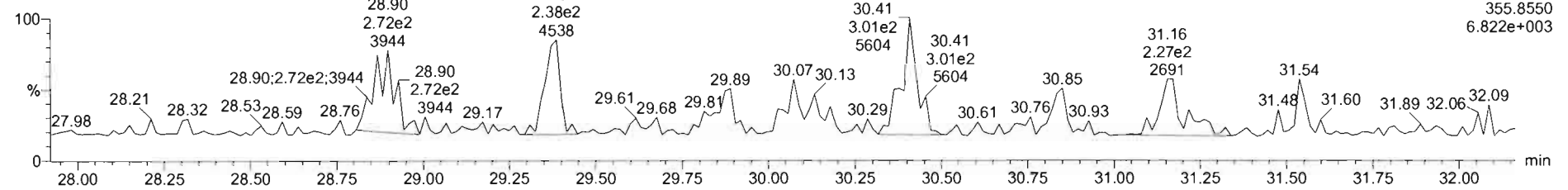
1,2,3,7,8-PeCDD

200516R1_13



F2:Voltage SIR,EI+
353.8576
7.098e+003

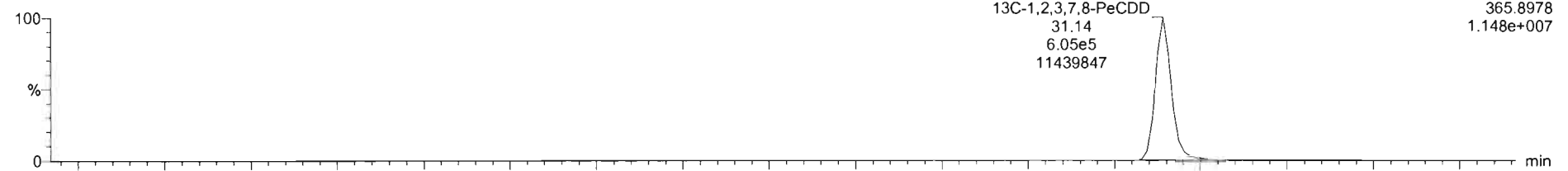
200516R1_13



F2:Voltage SIR,EI+
355.8550
6.822e+003

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

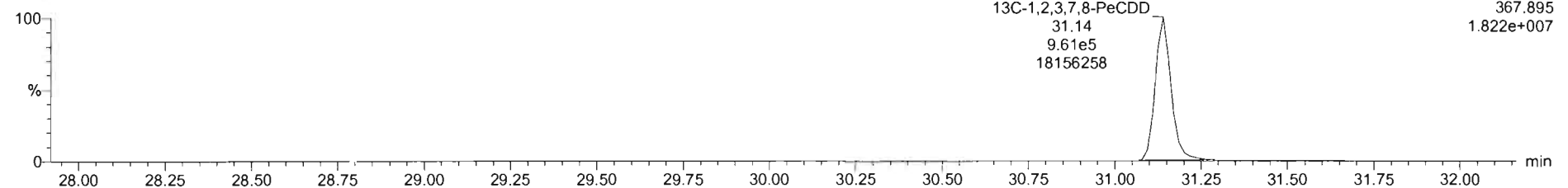
200516R1_13



13C-1,2,3,7,8-PeCDD
31.14
6.05e5
11439847

F2:Voltage SIR,EI+
365.8978
1.148e+007

200516R1_13

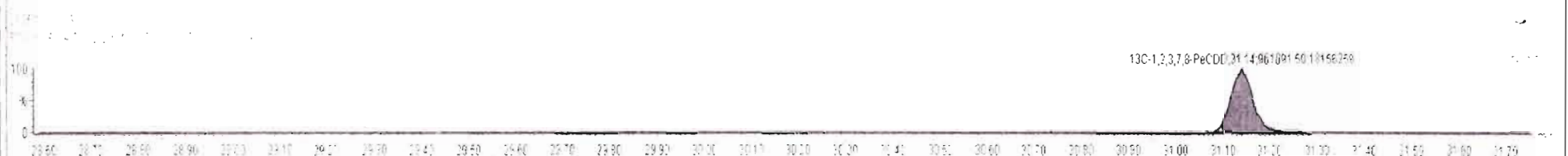
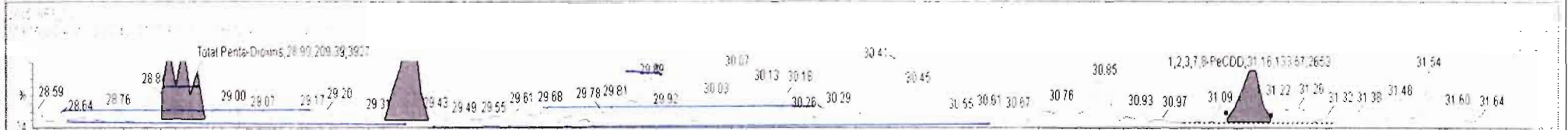
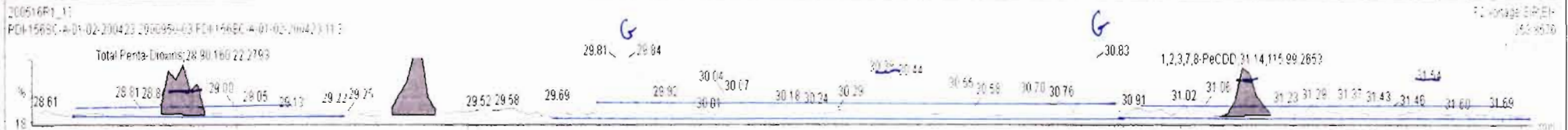


13C-1,2,3,7,8-PeCDD
31.14
9.61e5
18156258

F2:Voltage SIR,EI+
367.895
1.822e+007

Name	Resp	RA	n/y	RRF	wt/col	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.007			0.106		0.0408	0.105
40 Total Penta-Dioxins				0.9425	10.007			0.000		0.0208	0.124
41 Total Hexa-Dioxins				0.9145	10.007			1.27		0.0465	1.27
42 Total Hepta-Dioxins				0.8979	10.007			7.30		0.0580	7.30

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.90	1.602e2	2.094e2	0.77	YES	0.046203	0.00000
2 Total Penta-Dioxins	29.40	1.760e2	2.169e2	0.81	YES	0.047863	0.00000
3 1,2,3,7,8-PeCDD	31.14	1.160e2	1.337e2	0.87	YES	0.029495	0.00000



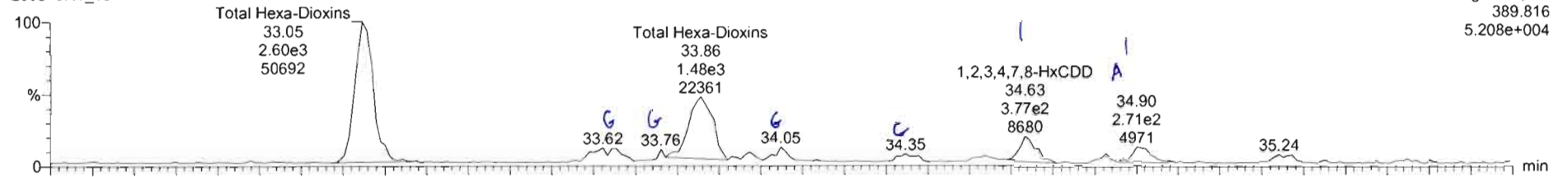
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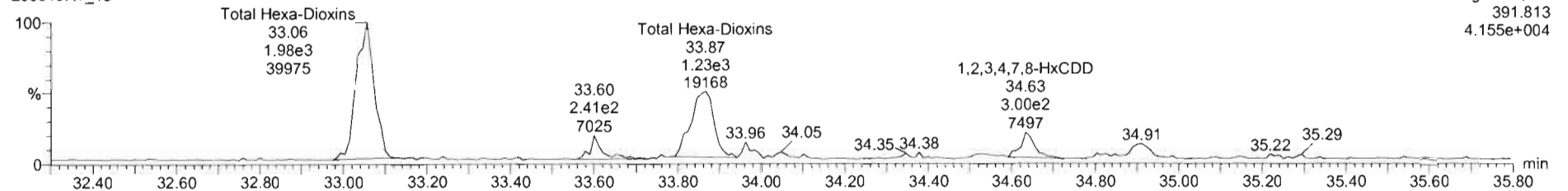
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1,2,3,4,7,8-HxCDD

200516R1_13

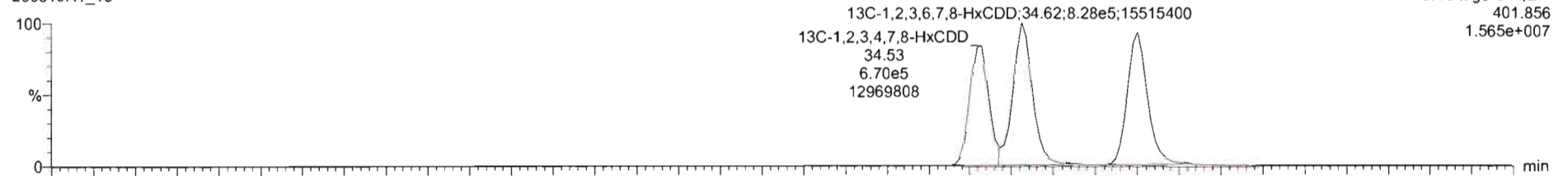


200516R1_13

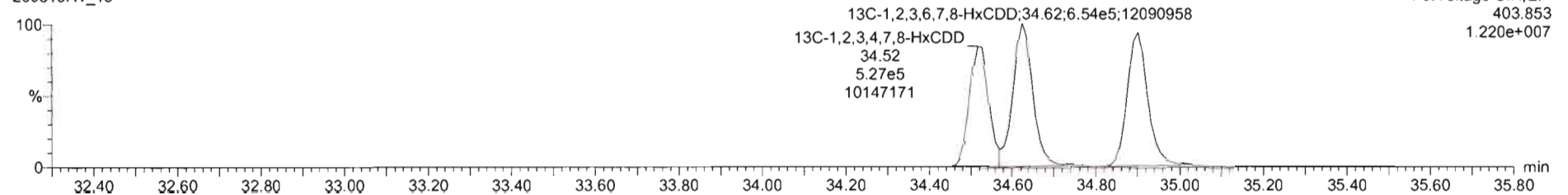


13C-1,2,3,4,7,8-HxCDD

200516R1_13

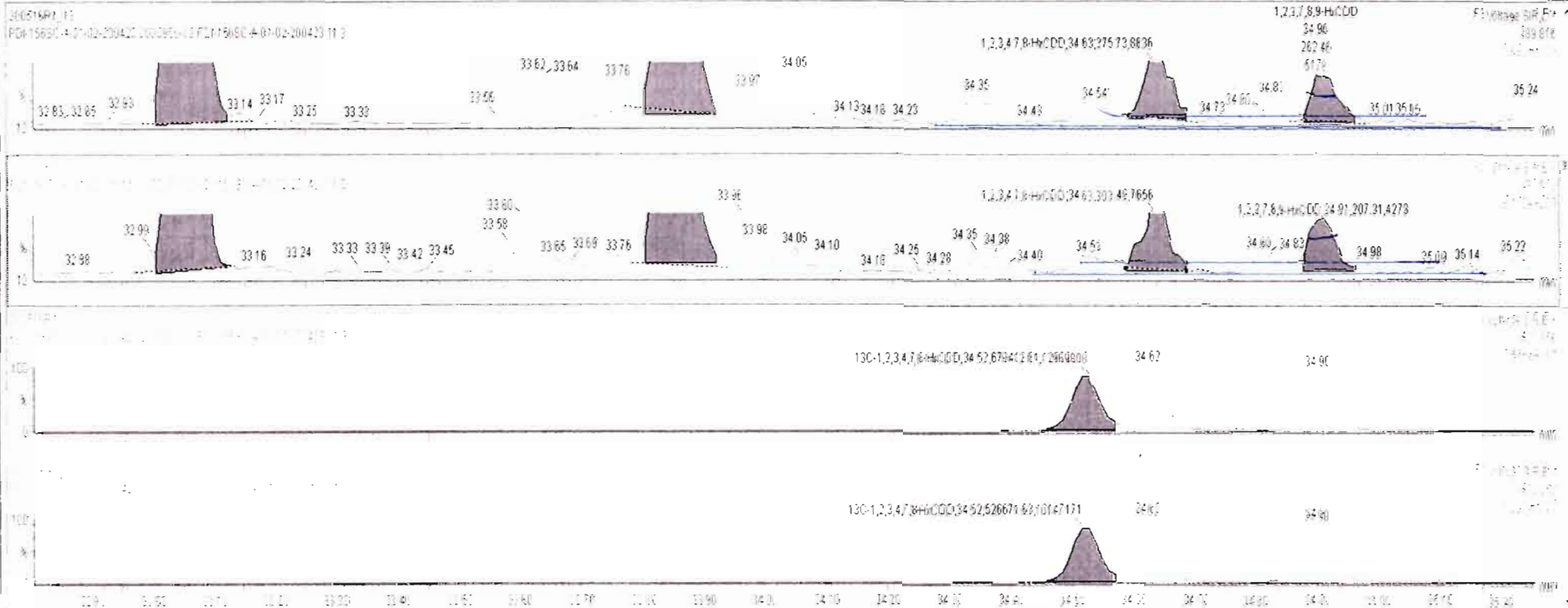


200516R1_13



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.007			0.106	0.0408	0.105	
40 Total Penta-Dioxins				0.9425	10.007			0.003	0.0208	0.124	
41 Total Hexa-Dioxins				0.9145	10.007			1.33	0.0465	1.33	
42 Total Hepta-Dioxins				0.8979	10.007			7.39	0.0580	7.30	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	33.05	2.551e3	1.965e3	1.30	NO	0.72047	0.72047
2 Total Hexa-Dioxins	33.86	1.489e3	1.189e3	1.25	NO	0.42665	0.42665
3 1,2,3,4,7,8-HxCDD	34.63	3.757e2	3.035e2	1.24	NO	0.10657	0.10657
4 1,2,3,7,8,9-HxCDD	34.90	2.625e2	2.073e2	1.27	NO	0.071718	0.071718



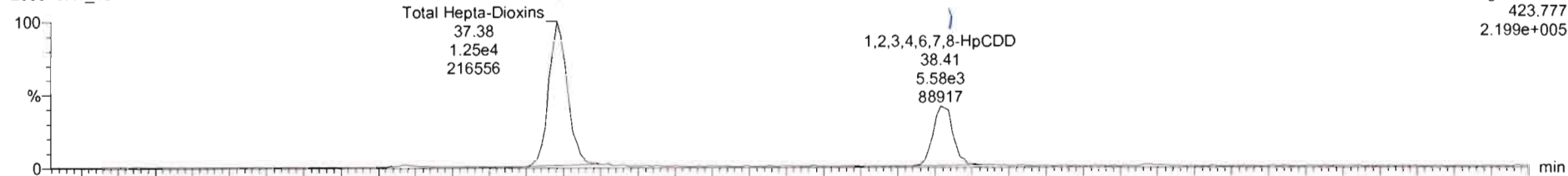
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423

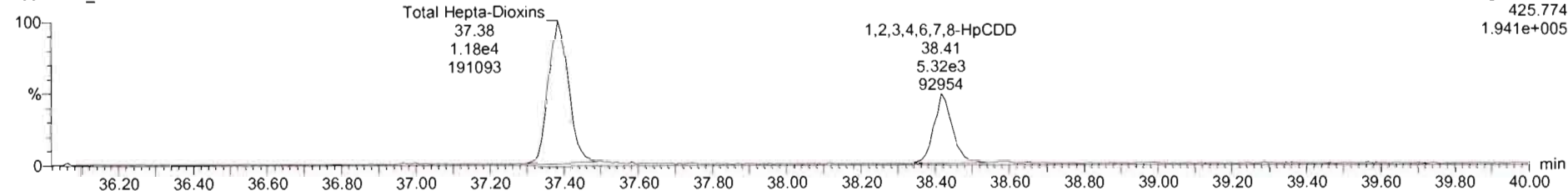
1,2,3,4,6,7,8-HpCDD

200516R1_13



F4:Voltage SIR,EI+
423.777
2.199e+005

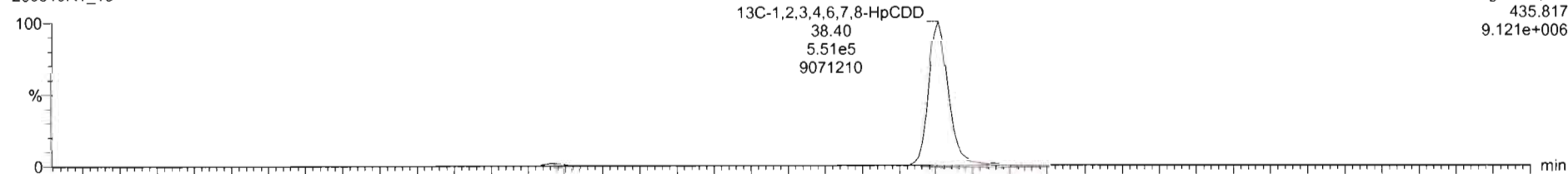
200516R1_13



F4:Voltage SIR,EI+
425.774
1.941e+005

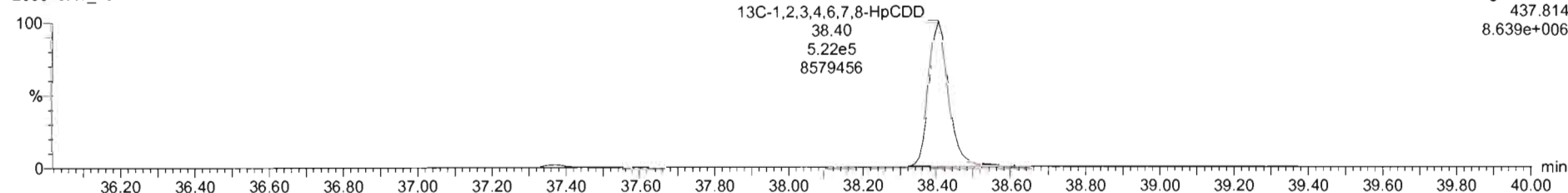
13C-1,2,3,4,6,7,8-HpCDD

200516R1_13



F4:Voltage SIR,EI+
435.817
9.121e+006

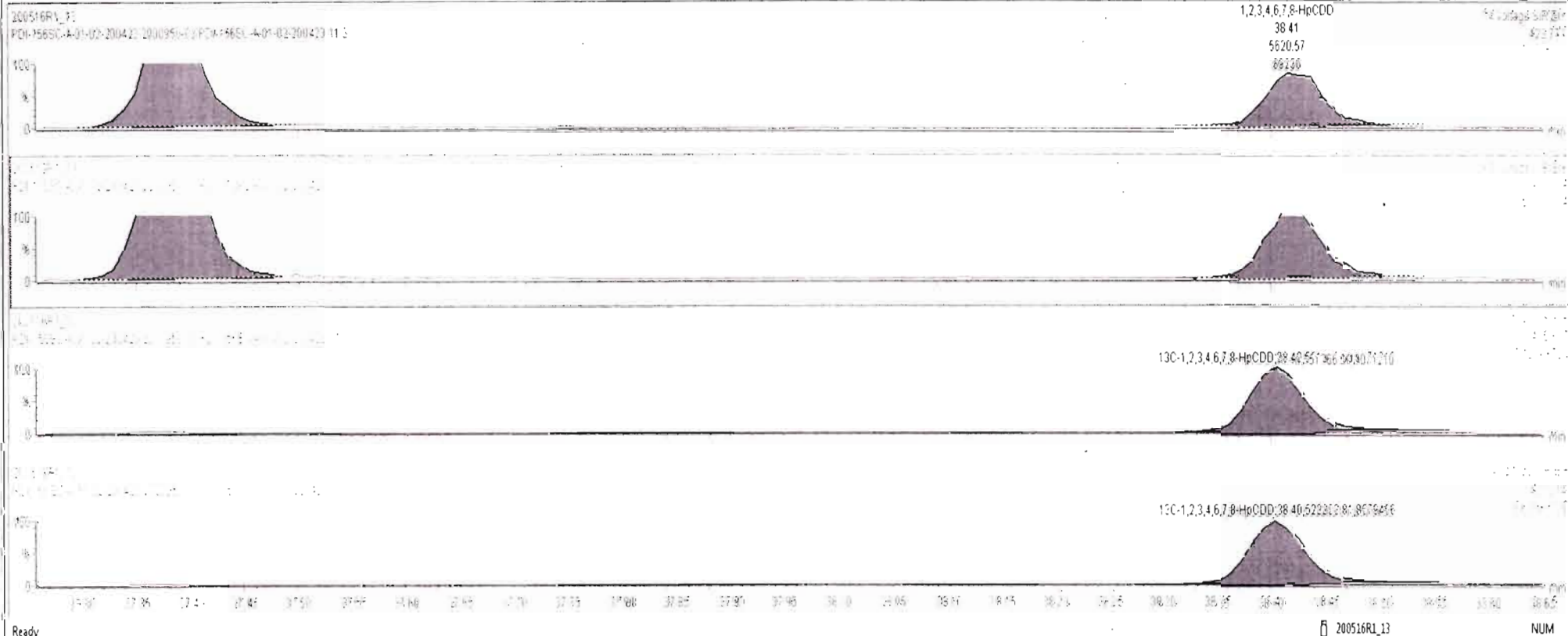
200516R1_13



F4:Voltage SIR,EI+
437.814
8.639e+006

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.007			0.106		0.0408	0.106
40 Total Penta-Dioxins				0.9425	10.007			0.000		0.0208	0.124
41 Total Hexa-Dioxins				0.9145	10.007			1.33		0.0465	1.33
42 Total Hepta-Dioxins				0.8979	10.007			7.34		0.0560	7.34

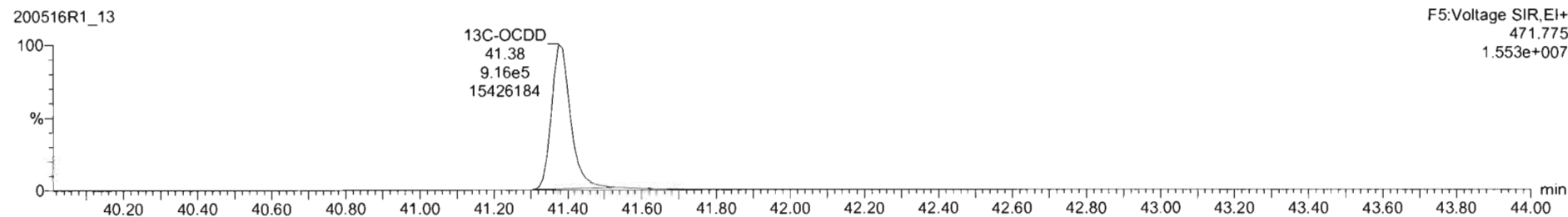
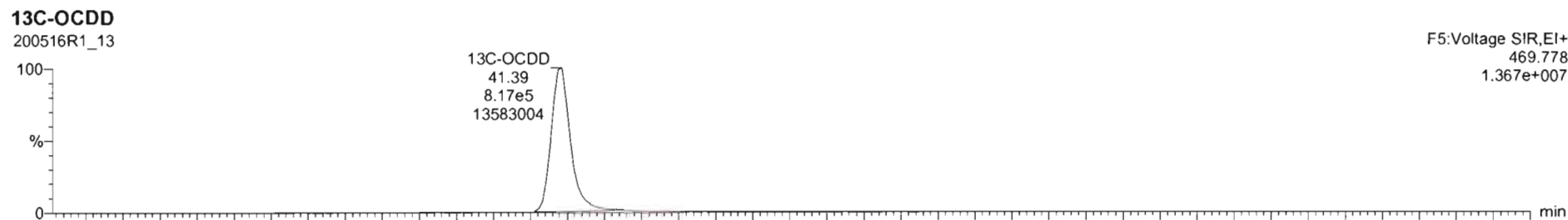
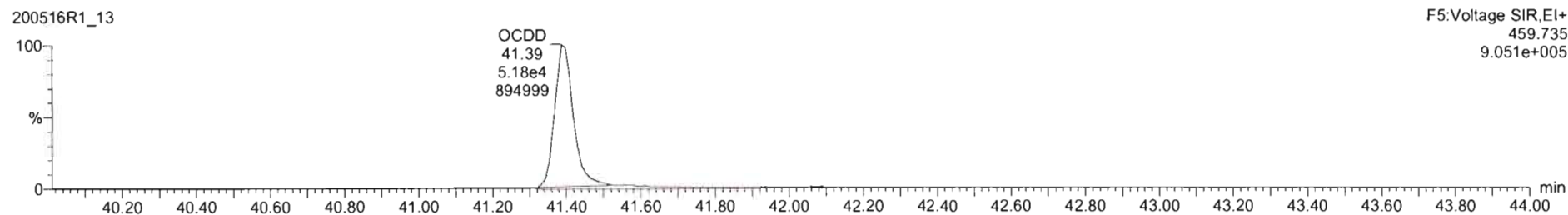
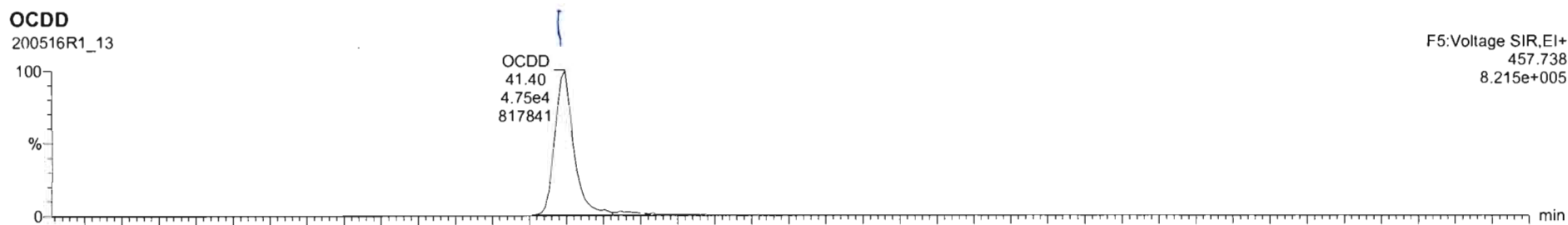
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.38	1.264e4	1.189e4	1.06	NO	5.0855	5.0855
2 1,2,3,4,6,7,8-HpCDD	38.41	5.621e3	5.230e3	1.07	NO	2.2497	2.2497



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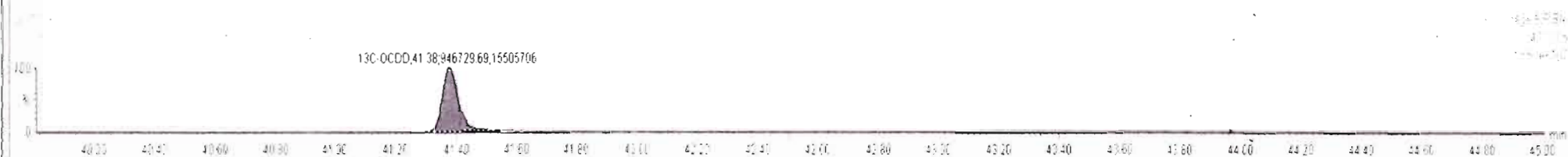
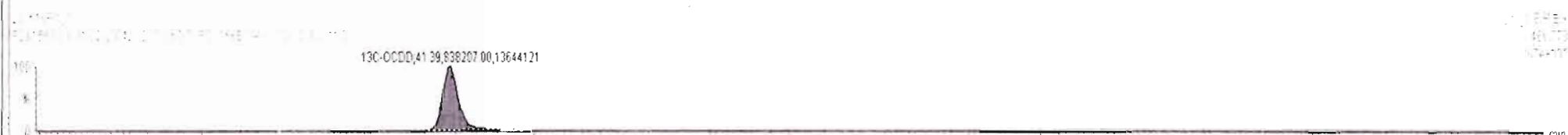
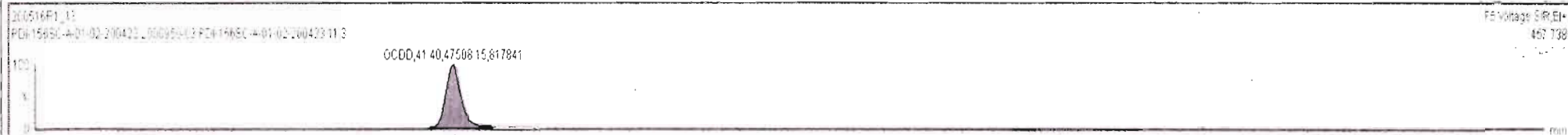
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200516R1_13 - 2000950-03 PDI-156SC-A-01-02-200423 11.3 - PDI-156SC-A-01-02-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	1.01e5	0.88	NO	0.9335	10.007	41.40	1.000	24.3		0.0974	24.3
8 2,3,7,8-TCDF			NO	0.7871	10.007					0.0340	
9 1,2,3,7,8-PeCDF			NO	0.9102	10.007					0.0248	
10 2,3,4,7,8-PeCDF			NO	0.9664	10.007					0.0228	

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



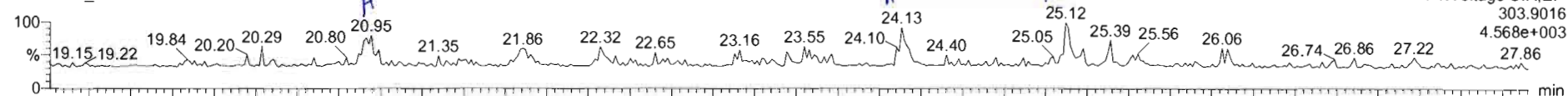
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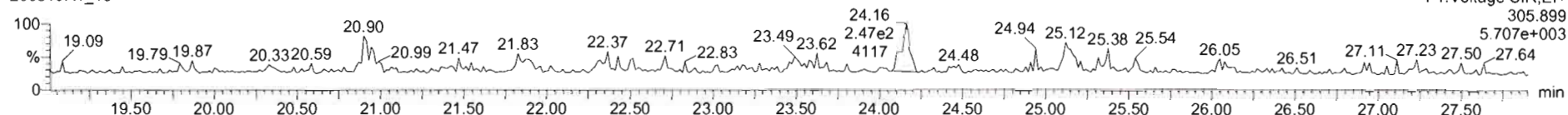
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2,3,7,8-TCDF

200516R1_13

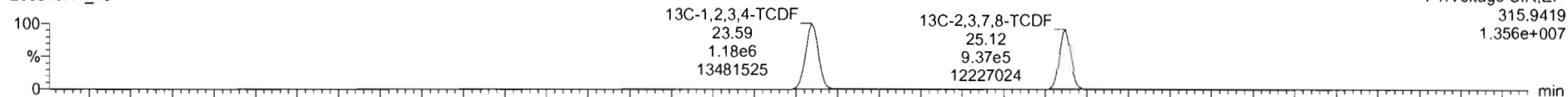


200516R1_13

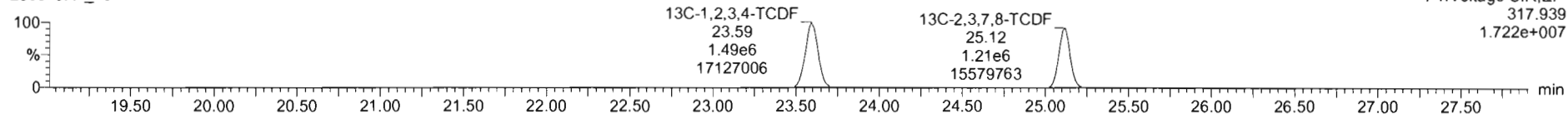


13C-2,3,7,8-TCDF

200516R1_13

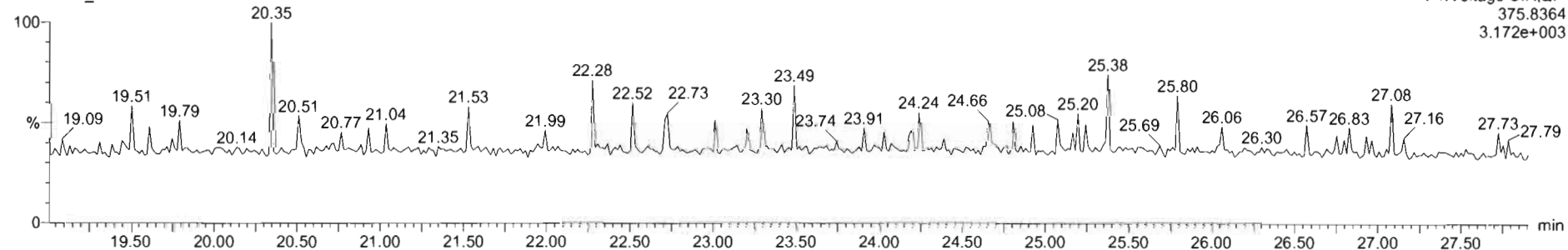


200516R1_13



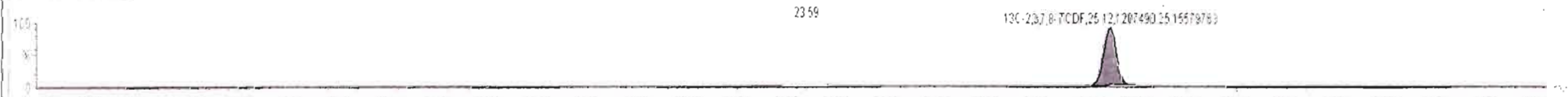
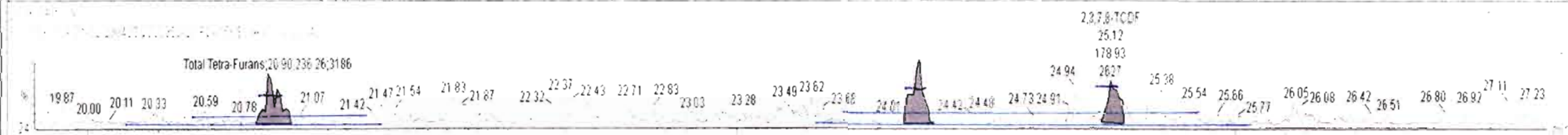
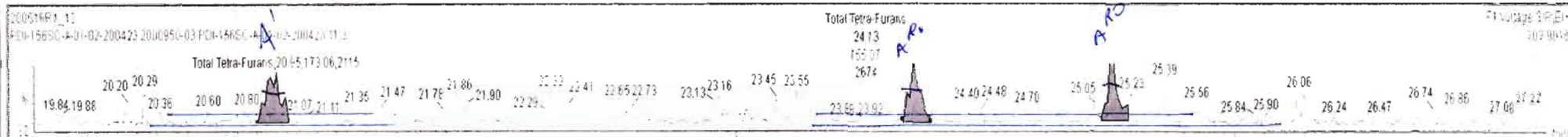
DPE1

200516R1_13



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.007			0.0465		0.0123	0.128
44 1st Func. Penta-Furans				0.9102	10.007			0.0000		0.00326	0.110
45 Total Penta-Furans				0.9102	10.007					0.00974	
46 Total Hexa-Furans				0.9217	10.007			0.434		0.0238	0.434

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.95	1.731e2	2.363e2	0.73	NO	0.048455	0.048455
2 Total Tetra-Furans	24.13	1.551e2	2.548e2	0.61	YES	0.042199	0.000000
3 2,3,7,8-TCDF	25.12	1.591e2	1.769e2	0.89	YES	0.037491	0.000000



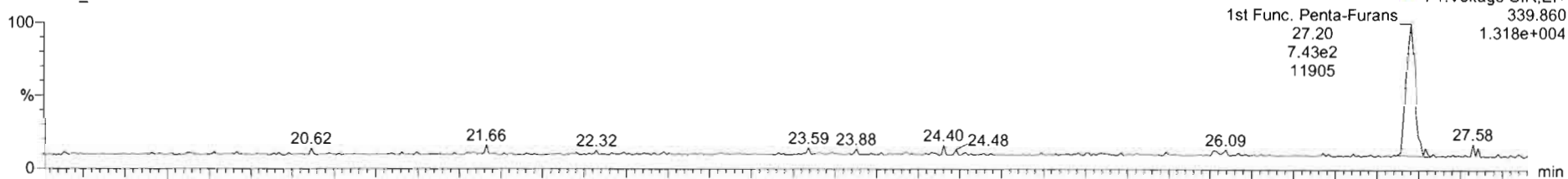
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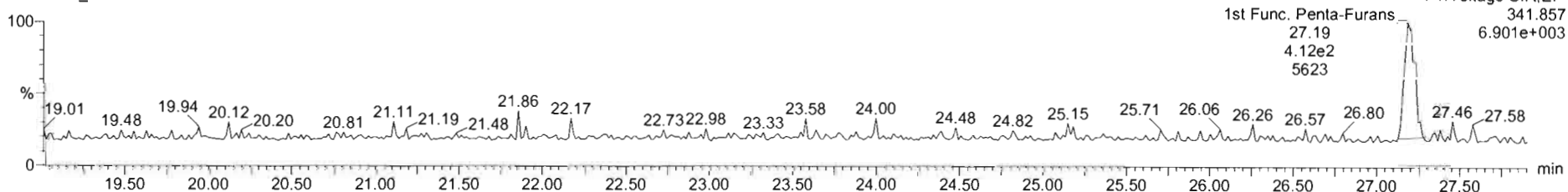
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1st Func. Penta-Furans

200516R1_13

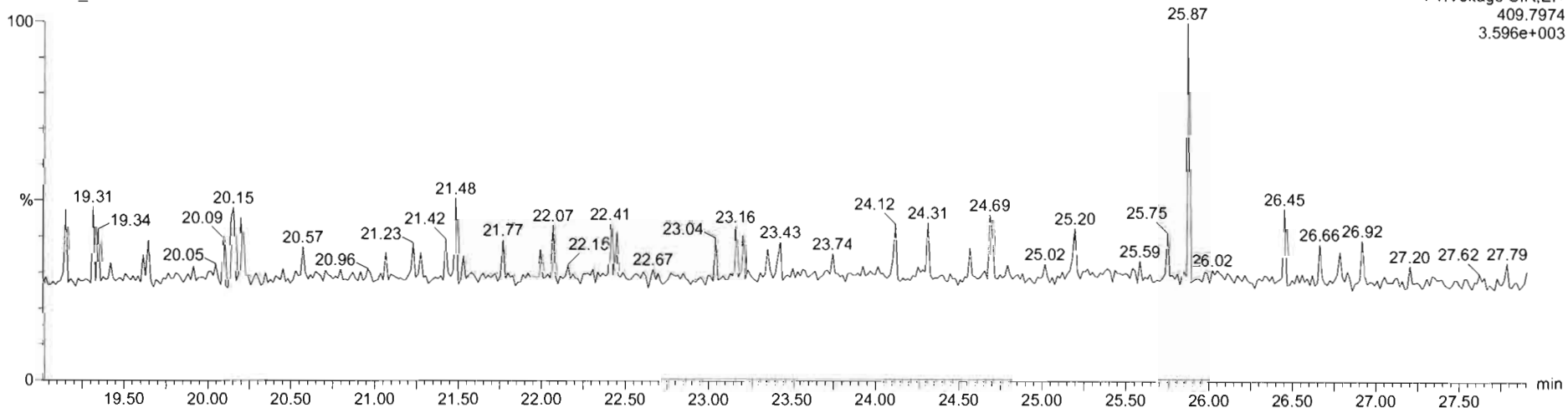


200516R1_13



DPE6

200516R1_13



Dataset: Untitled

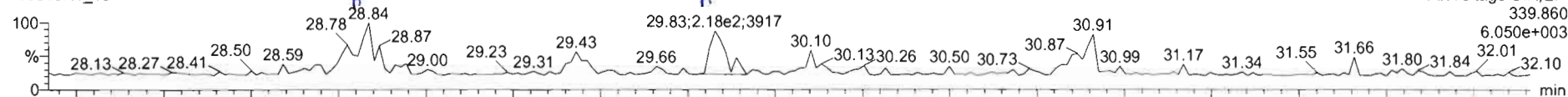
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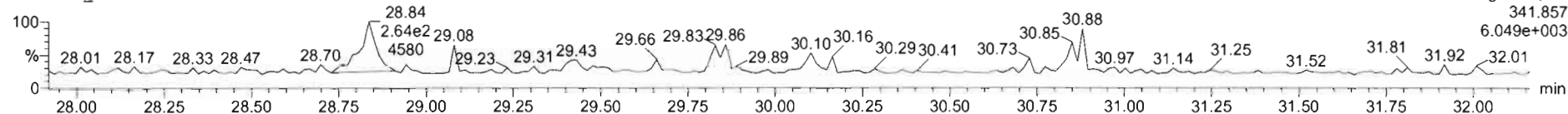
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1,2,3,7,8-PeCDF

200516R1_13

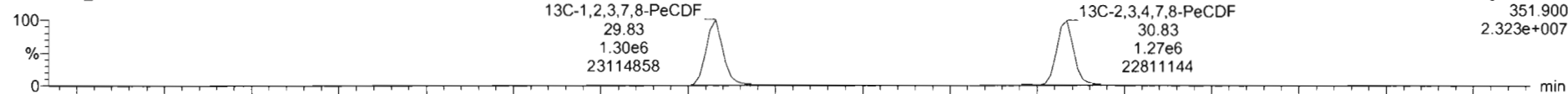


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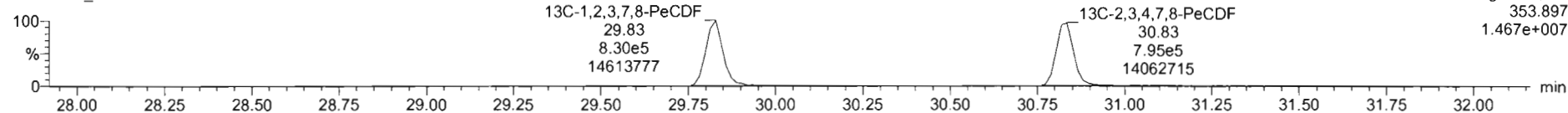


13C-1,2,3,7,8-PeCDF

200516R1_13

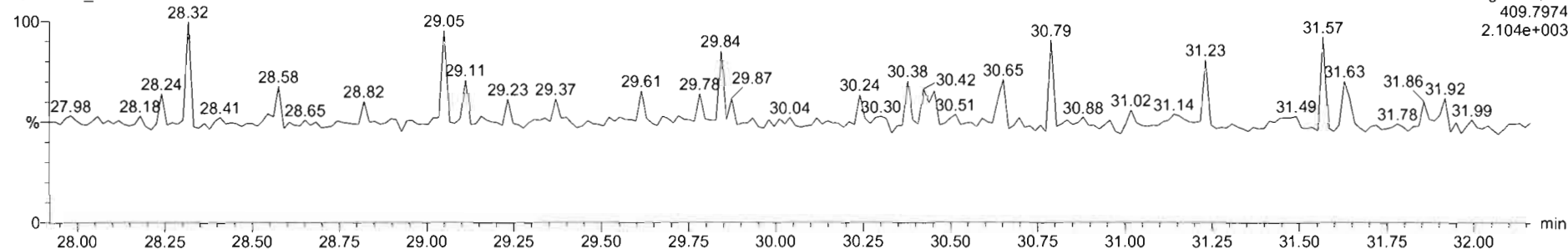


200516R1_13



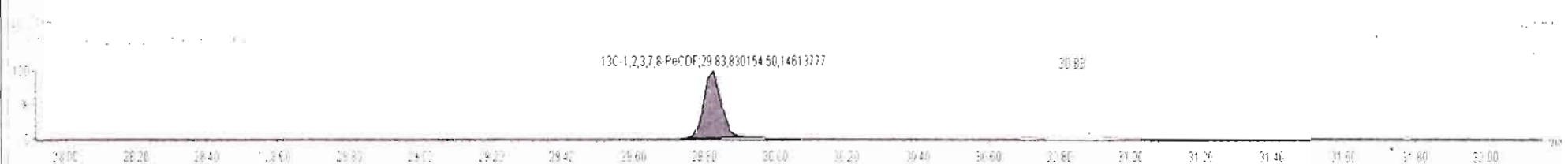
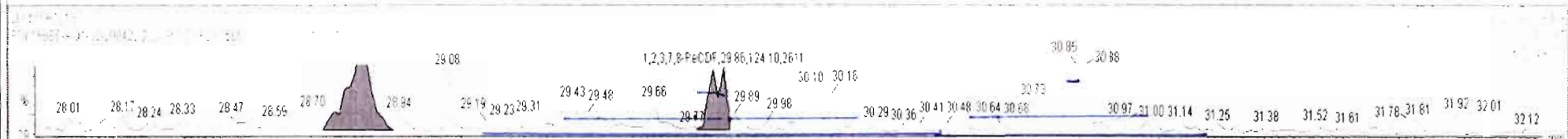
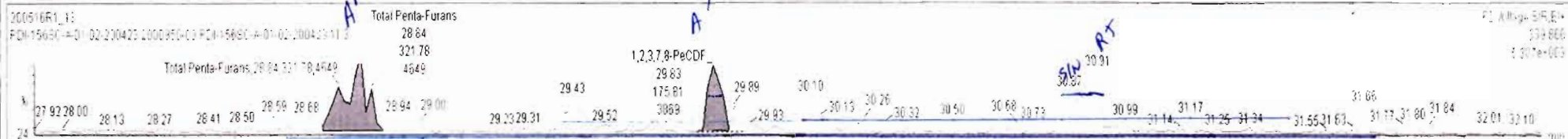
DPE2

200516R1_13



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.007			0.0485		0.0123	0.128
44 1st Func. Penta-Furans				0.9102	10.007			0.000		0.00328	0.110
45 Total Penta-Furans				0.9102	10.007			0.0308		0.00974	0.0862
46 Total Hexa-Furans				0.9217	10.007			0.434		0.0238	0.434

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.84	3.218e2	2.751e2	1.17	YES	0.055390	0.00390
2 1,2,3,7,8-PeCDF	29.83	1.758e2	1.241e2	1.42	NO	0.030843	0.030843



200516R1_13 - 2000950-03 PDI-156SC-A-01-02-200423 11.3 - FDI-156SC-A-01-02-200423

Name	Resp	RA	n/y	RFI	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.007			0.0485	0.0123	0.128	
44 1st Func. Penta-Furans				0.9102	10.007			0.000	0.00328	0.110	
45 Total Penta-Furans				0.9102	10.007			0.000	0.00974	0.0689	
46 Total Hexa-Furans				0.9217	10.007			0.434	0.0238	0.434	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	26.84	3.218e2	2.751e2	1.17	YES	0.055390	0.00000
2 2,3,4,7,8-PeCDF	30.87	6.967e1	5.918e1	1.18	YES	0.011496	0.00000

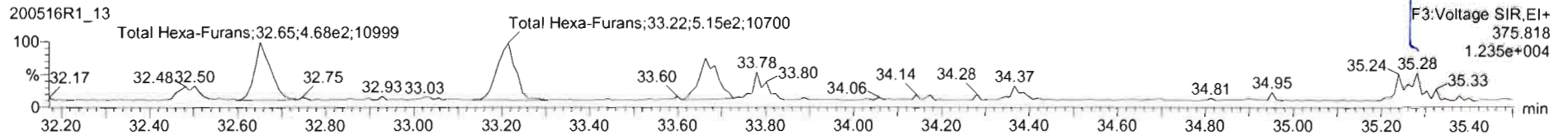
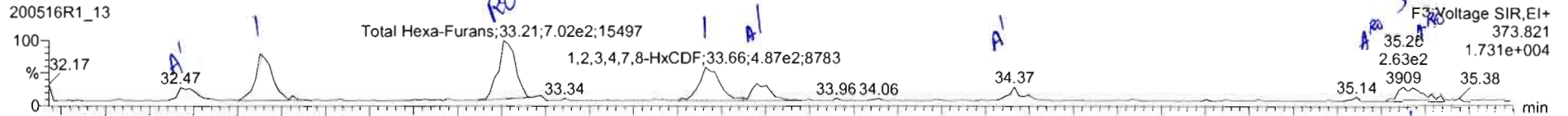


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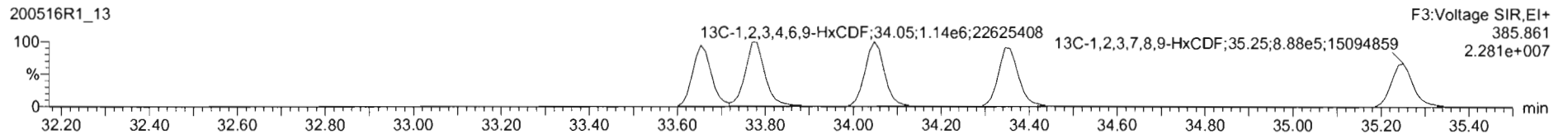
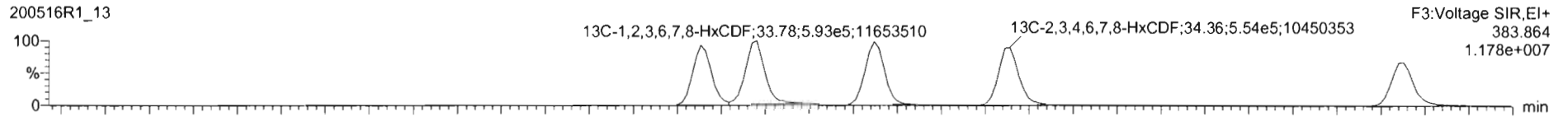
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423

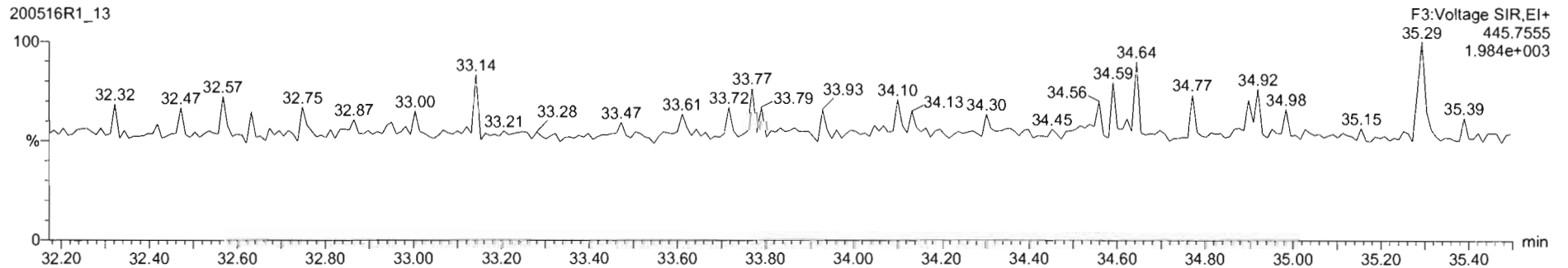
1,2,3,4,7,8-HxCDF



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



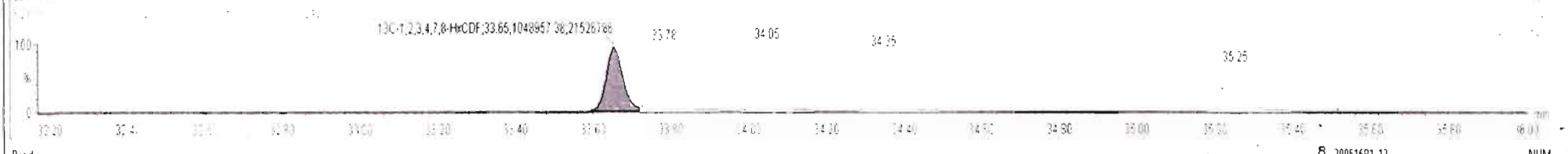
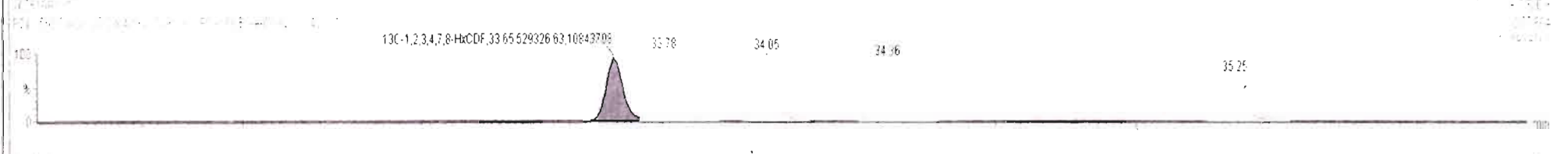
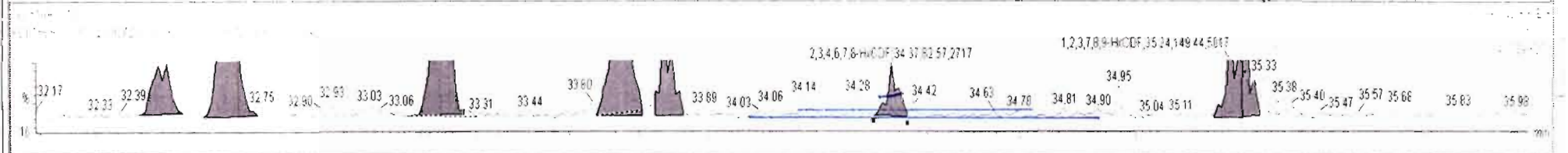
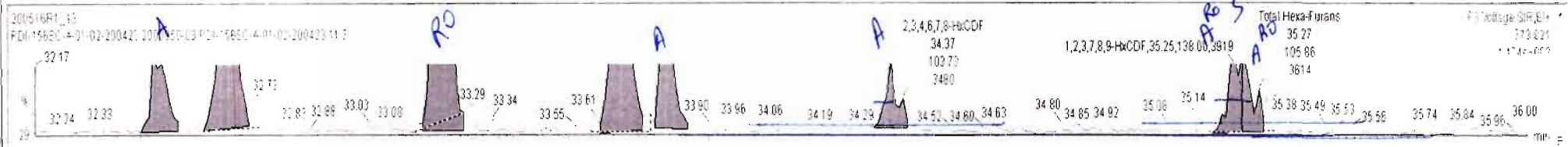
DPE3



200516R1_13 - 2000950-03 PDI-156SC-A-01-02-200423 11 3 - PDI-156SC-A-01-02-200423

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.007			0.0485		0.0123	0.128
44 1st Func. Penta-Furans				0.9102	10.007			0.000		0.00326	0.110
45 Total Penta-Furans				0.9102	10.007			0.0308		0.00974	0.0852
46 Total Hexa-Furans				0.9217	10.007			0.375		0.0238	0.598

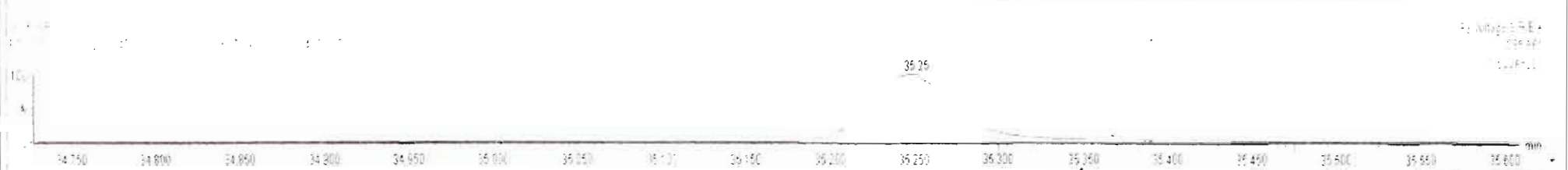
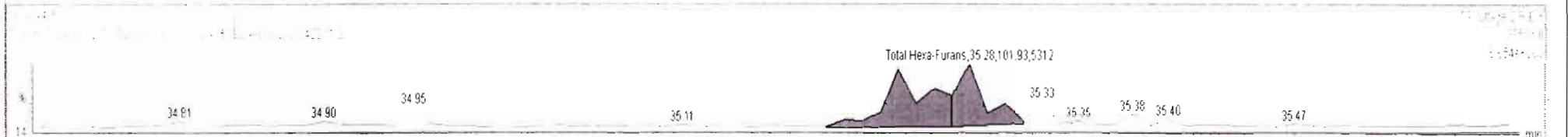
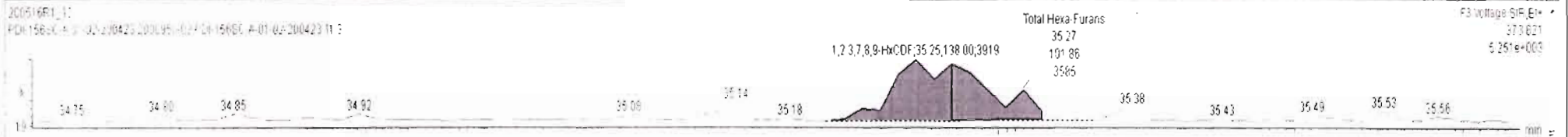
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Hexa-Furans	32.47	1.624e2	1.273e2	1.28	NO	0.039816	0.039818
2 Total Hexa-Furans	32.65	5.443e2	4.677e2	1.16	NO	0.13910	0.13910
3 Total Hexa-Furans	33.21	7.501e2	4.991e2	1.50	YES	0.15368	0.00000
4 1,2,3,4,7,8-HxCDF	33.66	4.673e2	3.973e2	1.18	NO	0.12467	0.12467
5 1,2,3,6,7,8-HxCDF	33.78	1.976e2	1.619e2	1.22	NO	0.048867	0.048867
6 2,3,4,6,7,8-HxCDF	34.37	1.037e2	8.257e1	1.26	NO	0.024684	0.024684
7 1,2,3,7,8,9-HxCDF	35.25	1.380e2	1.494e2	0.92	YES	0.042975	0.00000
8 Total Hexa-Furans	35.27	1.059e2	1.050e2	1.01	YES	0.026294	0.00000



200516R1_13 - 2000950-03 PDI-156SC-A-01-02-200423 11 3 - PDI-156SC-A-01-02-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.007			0.0485		0.0123	0.128
44 1st Func. Penta-Furans				0.9102	10.007			0.000		0.00328	0.110
45 Total Penta-Furans				0.9102	10.007			0.0308		0.00974	0.0962
46 Total Hexa-Furans				0.9217	10.007			0.375		0.0238	0.597

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.47	1.624e2	1.273e2	1.28	NO	0.039918	0.039818
2 Total Hexa-Furans	32.65	5.443e2	4.677e2	1.16	NO	0.13910	0.13910
3 Total Hexa-Furans	33.21	7.501e2	4.991e2	1.50	YES	0.15368	0.00000
4 1,2,3,4,7,8-HxCDF	33.66	4.673e2	3.973e2	1.18	NO	0.12467	0.12467
5 1,2,3,6,7,8-HxCDF	33.78	1.976e2	1.619e2	1.22	NO	0.046867	0.046867
6 2,3,4,6,7,8-HxCDF	34.37	1.037e2	8.257e1	1.26	NO	0.024684	0.024684
7 1,2,3,7,8,9-HxCDF	35.25	1.380e2	1.494e2	0.92	YES	0.042975	0.00000
8 Total Hexa-Furans	35.27	1.019e2	1.019e2	1.00	YES	0.025292	0.00000



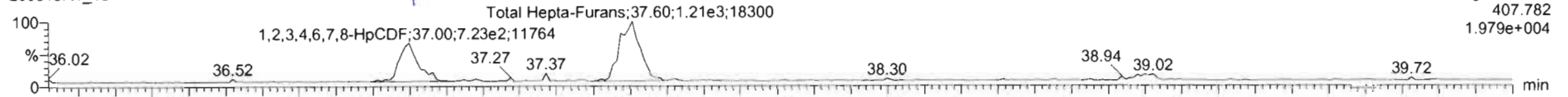
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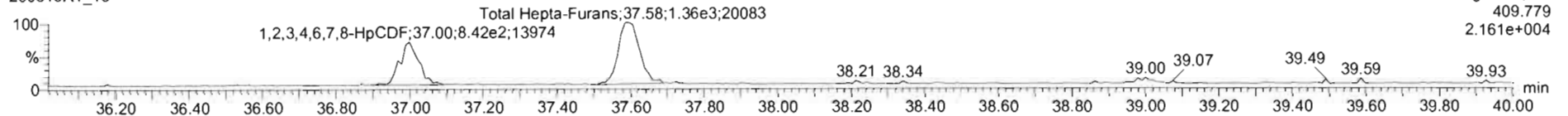
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1,2,3,4,6,7,8-HpCDF

200516R1_13

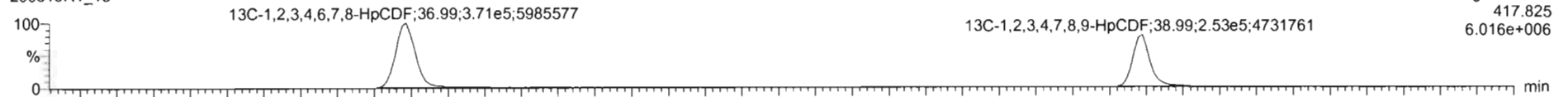


200516R1_13

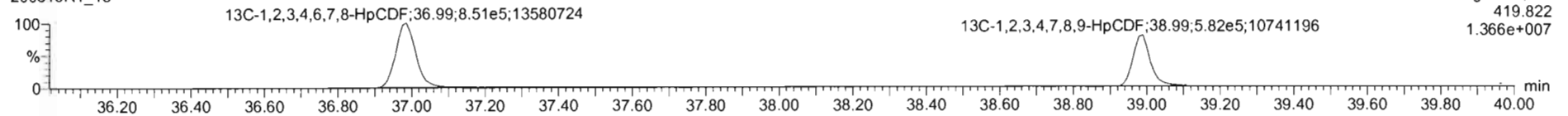


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200516R1_13

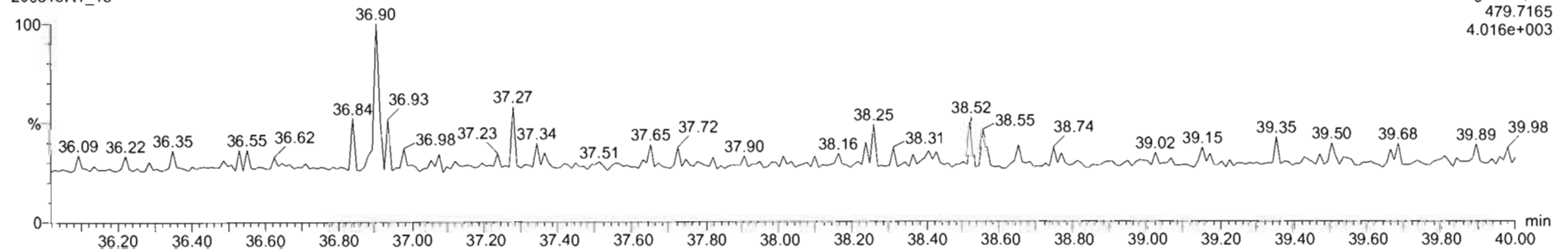


200516R1_13



DPE4

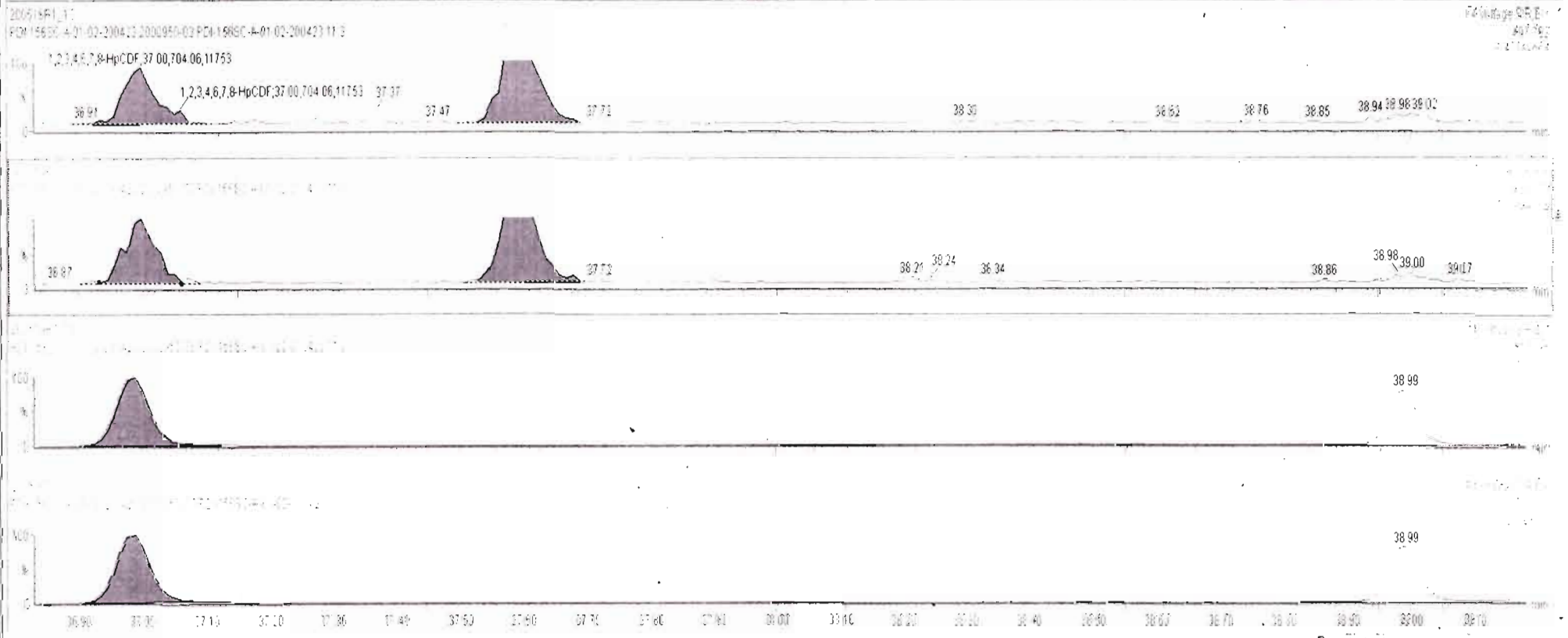
200516R1_13



200516R1_13 - 2000950-03 PDI-156SC-A-01-02-200423 11.3 - FDI-156SC-A-01-02-200423

Name	Resp	RA	n/y	RRF	wt/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9217	10.007			0.375	0.0238	0.598	
47 Total Hepta-Furans				0.6712	10.007			0.000	0.0142	0.763	
48 PFK1											
49 PFK2											

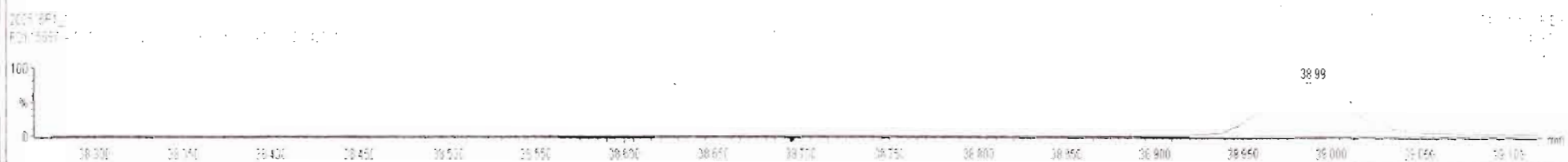
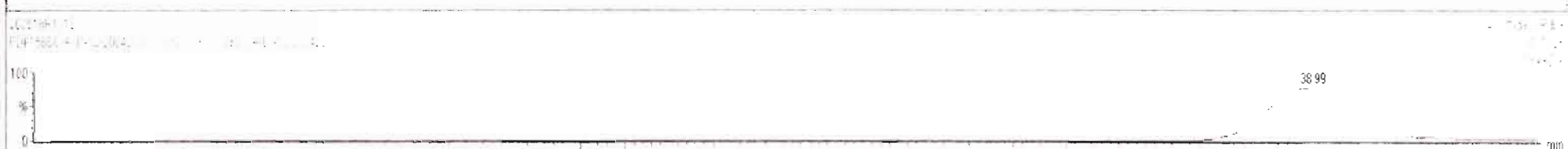
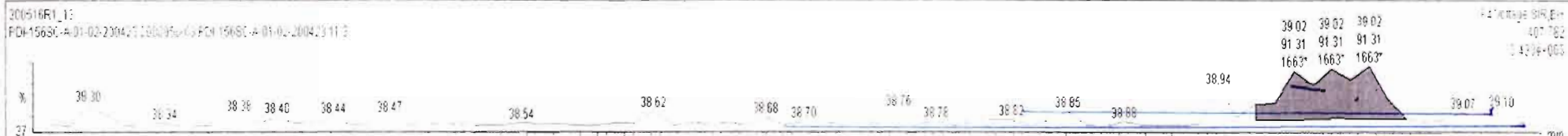
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	37.00	7.041e2	8.102e2	0.87	YES	0.25940	0.00000
2 Total Hepta-Furans	37.60	1.197e3	1.380e3	0.87	YES	0.52387	0.00000



200516R1_13 - 2000950-03 FDI-156SC-A-01-02-200423 11.3 - FDI-156SC-A-01-02-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9217	10.007			0.375	0.0238	0.598	
47 Total Hepta-Furans				0.8712	10.007			0.000	0.0142	0.783	
48 PFK1											
49 PFK2											

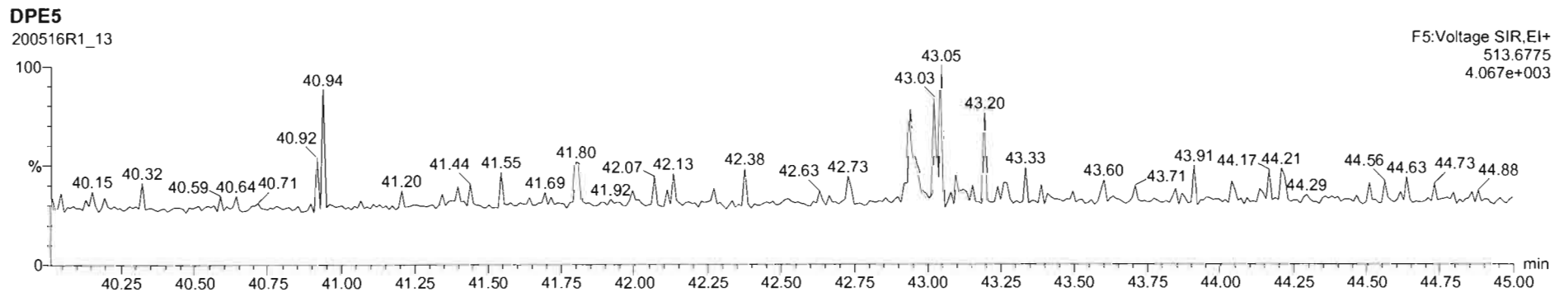
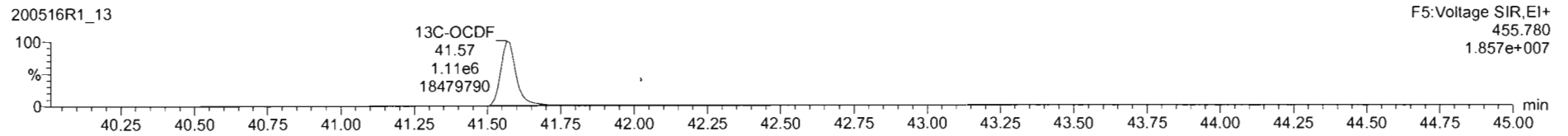
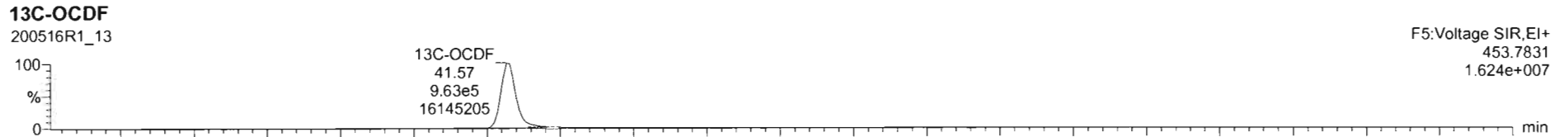
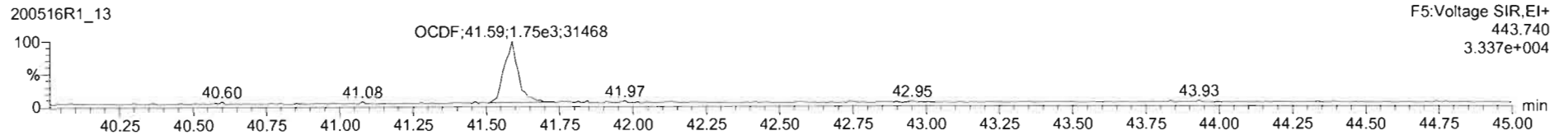
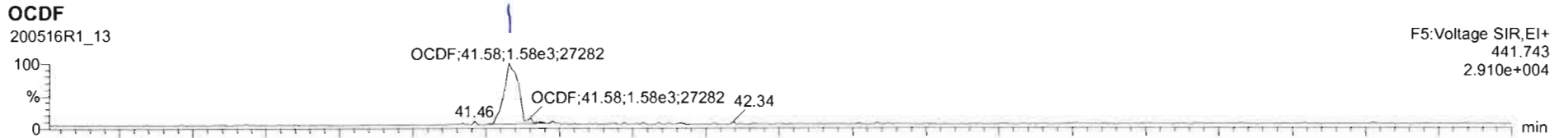
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	37.00	7.041e2	8.102e2	0.87	YES	0.25940	0.00000
2 Total Hepta-Furans	37.60	1.197e3	1.380e3	0.87	YES	0.52387	0.00000



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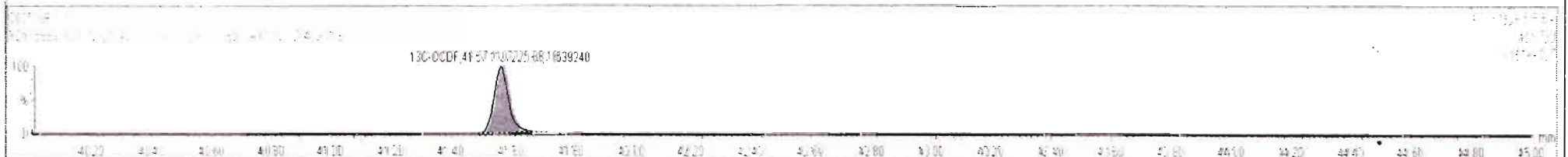
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
17 OCDF	3.18e3	0.91	NO	0.8021	10.007	41.58	1.000	0.763		0.0371	0.763
18 13C-2,3,7,8-TCDD	1.71e6	0.78	NO	1.1595	10.007	26.05	1.027	160	79.8	0.143	
19 13C-1,2,3,7,8-PeCDD	1.57e6	0.63	NO	0.8472	10.007	31.14	1.228	200	99.9	0.0954	
20 13C-1,2,3,4,7,8-HxCDD	1.20e6	1.27	NO	0.7499	10.007	34.53	1.014	185	92.4	0.243	

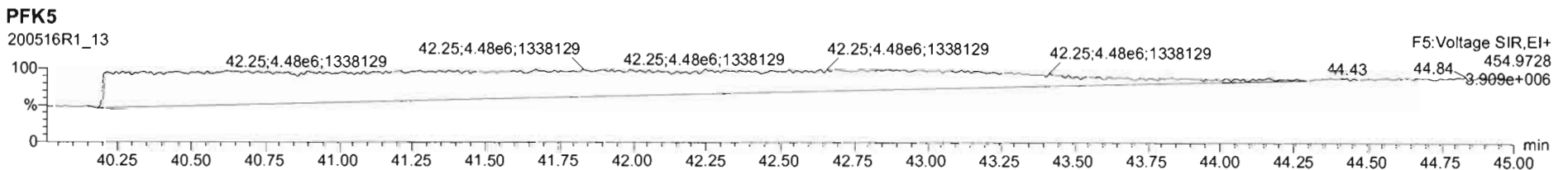
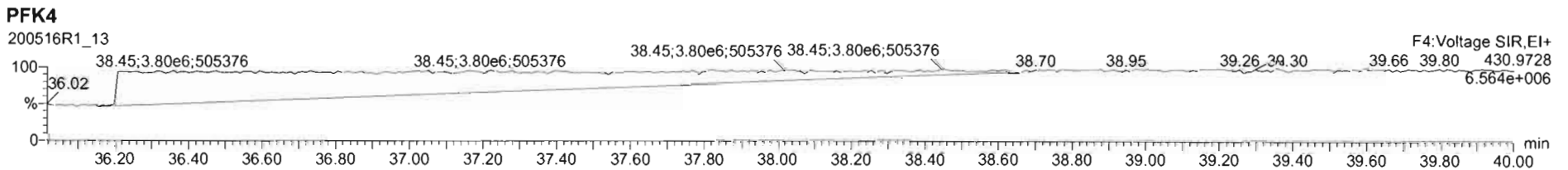
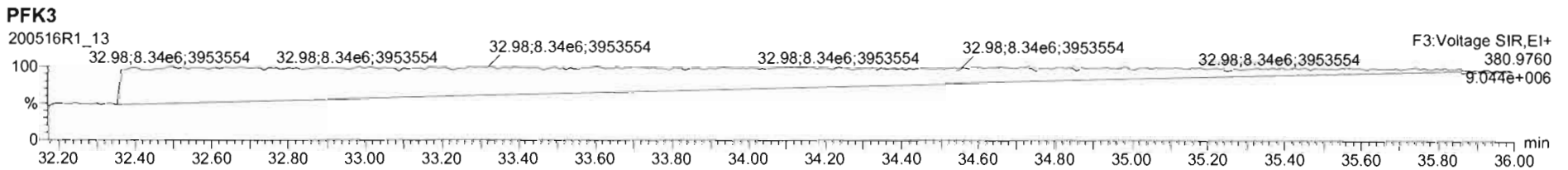
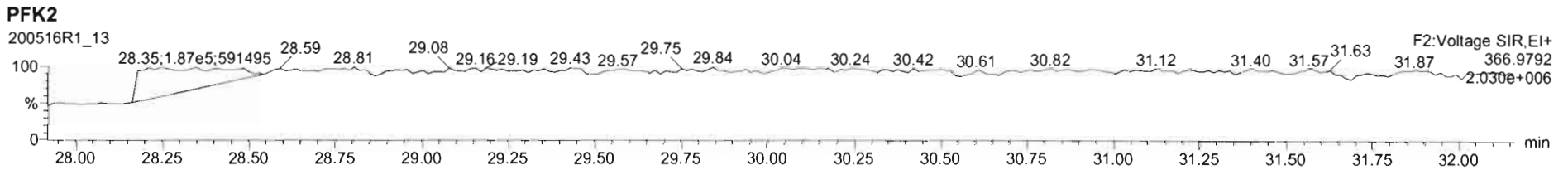
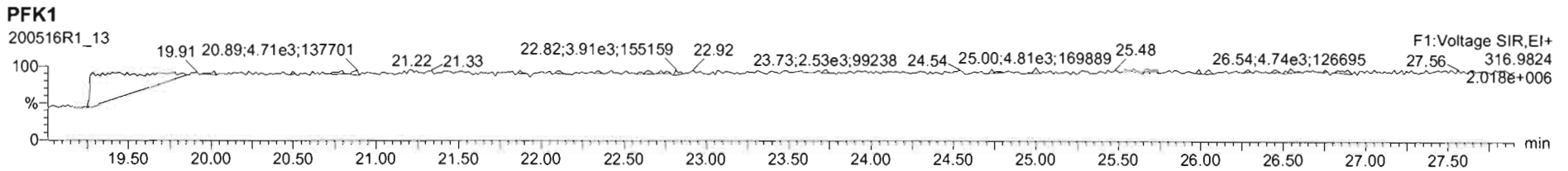
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_13, Date: 16-May-2020, Time: 18:26:28, ID: 2000950-03 PDI-156SC-A-01-02-200423 11.3, Description: PDI-156SC-A-01-02-200423



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-14.qld

Last Altered: Monday, May 18, 2020 09:47:18 Pacific Daylight Time
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GRB 05/18/2020

(17 05/28/2020)

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Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, 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	0.947	10.060	26.096		1.001				0.0640	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.060	31.162		1.001				0.0470	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.060	34.537		1.000				0.0253	
4	4 1,2,3,6,7,8-HxCDD	5.15e2	1.06	NO	0.915	10.060	34.622	34.64	1.000	1.001	0.092058		0.0250	0.0921
5	5 1,2,3,7,8,9-HxCDD	5.07e2	1.08	NO	0.915	10.060	34.909	34.92	1.000	1.001	0.089928		0.0245	0.0899
6	6 1,2,3,4,6,7,8-HpCDD	9.23e3	1.03	NO	0.898	10.060	38.415	38.41	1.000	1.000	2.1316		0.0506	2.13
7	7 OCDD	8.50e4	0.92	NO	0.933	10.060	41.375	41.39	1.000	1.000	21.746		0.0785	21.7
8	8 2,3,7,8-TCDF	3.72e2	0.95	YES	0.787	10.060	25.161	25.18	1.001	1.002	0.060755		0.0150	0.0551
9	9 1,2,3,7,8-PeCDF	3.98e2	1.73	NO	0.910	10.060	29.849	29.84	1.001	1.001	0.052849		0.0202	0.0528
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.060	30.866		1.001				0.0361	
11	11 1,2,3,4,7,8-HxCDF	4.17e2	1.04	YES	0.878	10.060	33.653	33.67	1.000	1.001	0.075198		0.0225	0.0694
12	12 1,2,3,6,7,8-HxCDF	1.92e2	1.18	NO	0.874	10.060	33.791	33.79	1.000	1.000	0.030793		0.0214	0.0308
13	13 2,3,4,6,7,8-HxCDF	1.34e2	1.30	NO	0.922	10.060	34.390	34.37	1.001	1.000	0.021083		0.0204	0.0211
14	14 1,2,3,7,8,9-HxCDF	2.80e2	0.89	YES	0.864	10.060	35.251	35.27	1.000	1.001	0.057405		0.0288	0.0489
15	15 1,2,3,4,6,7,8-HpCDF	1.24e3	1.16	NO	0.871	10.060	37.024	37.00	1.001	1.000	0.26181		0.0253	0.262
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.060	38.989		1.000				0.0287	
17	17 OCDF	2.95e3	0.95	NO	0.802	10.060	41.567	41.57	1.000	1.000	0.76943		0.0335	0.769
18	18 13C-2,3,7,8-TCDD	1.27e6	0.78	NO	1.16	10.060	26.061	26.07	1.026	1.027	135.95	68.4	0.166	
19	19 13C-1,2,3,7,8-PeCDD	1.23e6	0.63	NO	0.847	10.060	31.160	31.14	1.227	1.226	181.50	91.3	0.143	
20	20 13C-1,2,3,4,7,8-HxCDD	9.67e5	1.27	NO	0.750	10.060	34.527	34.53	1.014	1.014	173.92	87.5	0.306	
21	21 13C-1,2,3,6,7,8-HxCDD	1.22e6	1.26	NO	0.963	10.060	34.639	34.62	1.017	1.017	170.14	85.6	0.238	
22	22 13C-1,2,3,7,8,9-HxCDD	1.23e6	1.24	NO	0.838	10.060	34.908	34.90	1.025	1.025	197.41	99.3	0.274	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.59e5	1.07	NO	0.641	10.060	38.402	38.40	1.128	1.128	201.47	101	0.200	
24	24 13C-OCDD	1.66e6	0.85	NO	0.586	10.060	41.398	41.38	1.216	1.215	382.89	96.3	0.282	
25	25 13C-2,3,7,8-TCDF	1.55e6	0.78	NO	1.03	10.060	25.119	25.14	0.989	0.990	128.42	64.6	0.219	
26	26 13C-1,2,3,7,8-PeCDF	1.64e6	1.61	NO	0.845	10.060	29.847	29.83	1.176	1.175	166.89	83.9	0.318	
27	27 13C-2,3,4,7,8-PeCDF	1.56e6	1.59	NO	0.814	10.060	30.840	30.83	1.215	1.214	164.30	82.6	0.330	
28	28 13C-1,2,3,4,7,8-HxCDF	1.26e6	0.52	NO	1.00	10.060	33.666	33.65	0.989	0.988	168.47	84.7	0.253	
29	29 13C-1,2,3,6,7,8-HxCDF	1.42e6	0.51	NO	1.14	10.060	33.788	33.78	0.992	0.992	168.20	84.6	0.223	
30	30 13C-2,3,4,6,7,8-HxCDF	1.37e6	0.52	NO	1.02	10.060	34.357	34.36	1.009	1.009	181.28	91.2	0.248	
31	31 13C-1,2,3,7,8,9-HxCDF	1.12e6	0.51	NO	0.845	10.060	35.249	35.25	1.035	1.035	178.97	90.0	0.300	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-14.qld

Last Altered: Monday, May 18, 2020 09:47:18 Pacific Daylight Time

Printed: Monday, May 18, 2020 09:47:58 Pacific Daylight Time

Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, Description: Duplicate

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.08e6	0.43	NO	0.771	10.060	36.982	36.99	1.086	1.086	189.26	95.2	0.246	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.08e5	0.43	NO	0.482	10.060	38.994	38.99	1.145	1.145	197.94	99.6	0.394	
34	34 13C-OCDF	1.90e6	0.89	NO	0.669	10.060	41.568	41.57	1.221	1.221	382.91	96.3	0.239	
35	35 37Cl-2,3,7,8-TCDD	4.83e5			1.10	10.060	26.092	26.08	1.028	1.027	54.745	68.8	0.0292	
36	36 13C-1,2,3,4-TCDD	1.60e6	0.80	NO	1.00	10.060	25.350	25.39	1.000	1.000	198.81	100	0.192	
37	37 13C-1,2,3,4-TCDF	2.32e6	0.78	NO	1.00	10.060	23.560	23.63	1.000	1.000	198.81	100	0.227	
38	38 13C-1,2,3,4,6,9-HxCDF	1.47e6	0.51	NO	1.00	10.060	34.000	34.05	1.000	1.000	198.81	100	0.254	
39	39 Total Tetra-Dioxins				0.947	10.060	24.620		0.000		0.00000		0.0301	0.0818
40	40 Total Penta-Dioxins				0.942	10.060	29.960		0.000		0.00000		0.0179	0.0743
41	41 Total Hexa-Dioxins				0.915	10.060	33.635		0.000		1.4499		0.0261	1.45
42	42 Total Hepta-Dioxins				0.898	10.060	37.640		0.000		7.3103		0.0506	7.31
43	43 Total Tetra-Furans				0.787	10.060	23.610		0.000		0.00000		0.0150	0.0892
44	44 1st Func. Penta-Furans				0.910	10.060	27.090		0.000		0.00000		0.00516	0.0938
45	45 Total Penta-Furans				0.910	10.060	29.275		0.000		0.10585		0.0203	0.106
46	46 Total Hexa-Furans				0.922	10.060	33.555		0.000		0.22121		0.0221	0.469
47	47 Total Hepta-Furans				0.871	10.060	37.835		0.000		0.81351		0.0285	0.814

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-14.qld

Last Altered: Monday, May 18, 2020 09:47:18 Pacific Daylight Time

Printed: Monday, May 18, 2020 09:47:58 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, Description: Duplicate

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.80	4.482e3	3.376e3	3.206e2	2.788e2	1.15	YES	0.000e0	0.00000	0.081843	0.0640

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.88	2.973e3	4.125e3	2.200e2	2.668e2	0.82	YES	0.000e0	0.00000	0.074314	0.0470

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.06	4.392e4	2.982e4	2.104e3	1.499e3	1.40	NO	3.603e3	0.68934	0.68934	0.0261
2	Total Hexa-Dioxins	33.60	7.353e3	6.012e3	2.993e2	2.644e2	1.13	NO	5.637e2	0.10785	0.10785	0.0261
3	Total Hexa-Dioxins	33.87	2.319e4	2.151e4	1.297e3	1.163e3	1.11	NO	2.460e3	0.47073	0.47073	0.0261
4	1,2,3,6,7,8-HxCDD	34.64	6.209e3	5.231e3	2.653e2	2.493e2	1.06	NO	5.146e2	0.092058	0.092058	0.0250
5	1,2,3,7,8,9-HxCDD	34.92	6.211e3	4.276e3	2.631e2	2.444e2	1.08	NO	5.075e2	0.089928	0.089928	0.0245

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	1.872e5	1.812e5	1.130e4	1.112e4	1.02	NO	2.242e4	5.1787	5.1787	0.0506
2	1,2,3,4,6,7,8-HpCDD	38.41	7.944e4	7.257e4	4.672e3	4.556e3	1.03	NO	9.228e3	2.1316	2.1316	0.0506

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	24.15	2.296e3	2.273e3	1.286e2	1.184e2	1.09	YES	0.000e0	0.00000	0.034176	0.0150
2	2,3,7,8-TCDF	25.18	3.281e3	2.522e3	1.818e2	1.907e2	0.95	YES	3.725e2	0.00000	0.055057	0.0150

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-14.qld

Last Altered: Monday, May 18, 2020 09:47:18 Pacific Daylight Time

Printed: Monday, May 18, 2020 09:47:58 Pacific Daylight Time

Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, Description: Duplicate

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.19	6.051e3	6.621e3	4.181e2	4.009e2	1.04	YES	0.000e0	0.00000	0.093823	0.0124

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.84	4.644e3	2.929e3	2.308e2	1.578e2	1.46	NO	3.886e2	0.052999	0.052999	0.0203
2	1,2,3,7,8-PeCDF	29.84	4.065e3	3.467e3	2.519e2	1.459e2	1.73	NO	3.977e2	0.052849	0.052849	0.0202

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.49	3.045e3	1.847e3	1.493e2	8.540e1	1.75	YES	0.000e0	0.00000	0.031929	0.0221
2	Total Hexa-Furans	32.67	6.209e3	9.041e3	3.219e2	3.255e2	0.99	YES	0.000e0	0.00000	0.097063	0.0221
3	Total Hexa-Furans	33.21	1.174e4	9.084e3	4.992e2	4.043e2	1.23	NO	9.035e2	0.15080	0.15080	0.0221
4	1,2,3,4,7,8-HxCDF	33.67	4.569e3	5.016e3	2.131e2	2.040e2	1.04	YES	4.171e2	0.00000	0.069393	0.0225
5	1,2,3,6,7,8-HxCDF	33.79	3.052e3	2.487e3	1.038e2	8.816e1	1.18	NO	1.920e2	0.030793	0.030793	0.0214
6	2,3,4,6,7,8-HxCDF	34.37	2.033e3	1.823e3	7.601e1	5.834e1	1.30	NO	1.343e2	0.021083	0.021083	0.0204
7	1,2,3,7,8,9-HxCDF	35.27	3.780e3	3.750e3	1.321e2	1.477e2	0.89	YES	2.798e2	0.00000	0.048950	0.0288
8	Total Hexa-Furans	35.28	2.418e3	2.114e3	6.481e1	4.628e1	1.40	NO	1.111e2	0.018541	0.018541	0.0221

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.00	1.135e4	1.141e4	6.662e2	5.757e2	1.16	NO	1.242e3	0.26181	0.26181	0.0253
2	Total Hepta-Furans	37.60	1.701e4	1.939e4	1.021e3	1.144e3	0.89	NO	2.164e3	0.55170	0.55170	0.0285

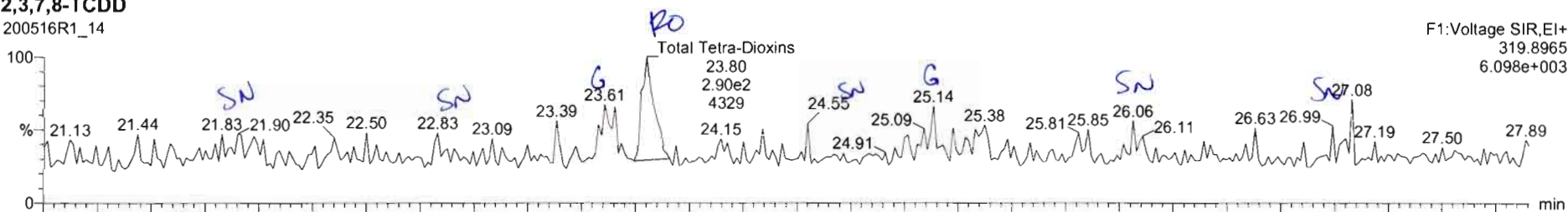
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Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, Description: Duplicate

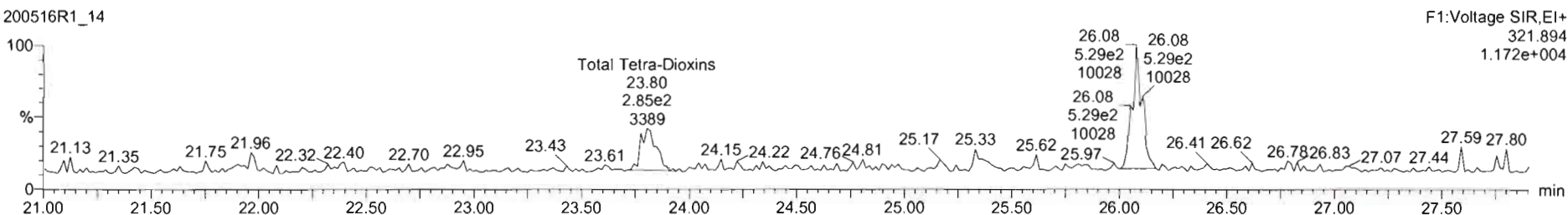
2,3,7,8-TCDD

200516R1_14



F1:Voltage SIR,EI+
319.8965
6.098e+003

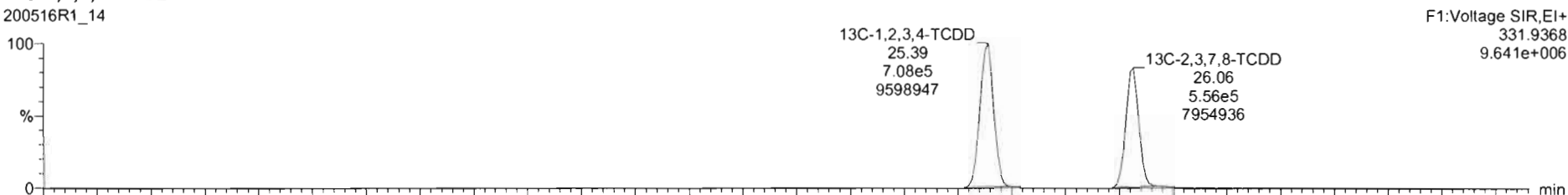
200516R1_14



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1.172e+004

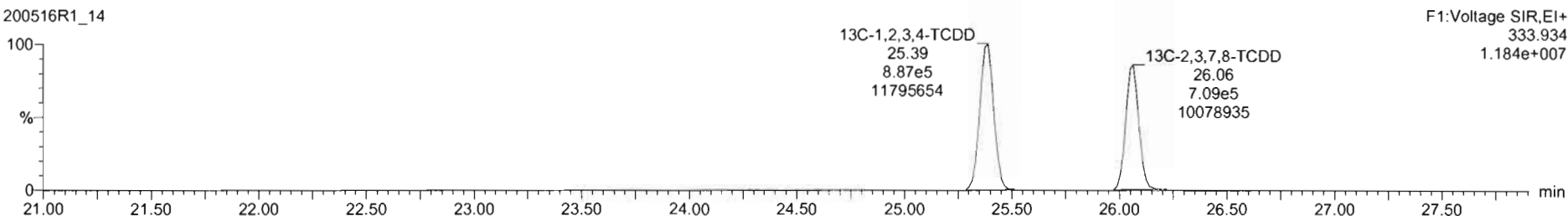
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200516R1_14



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9.641e+006

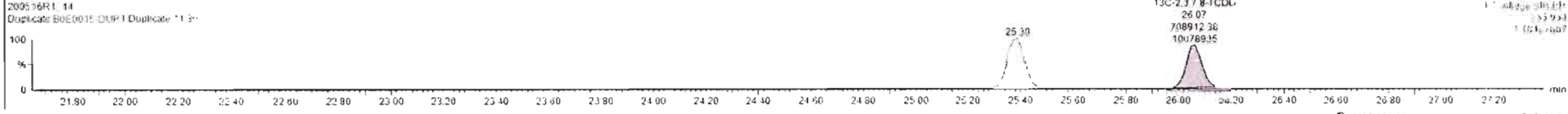
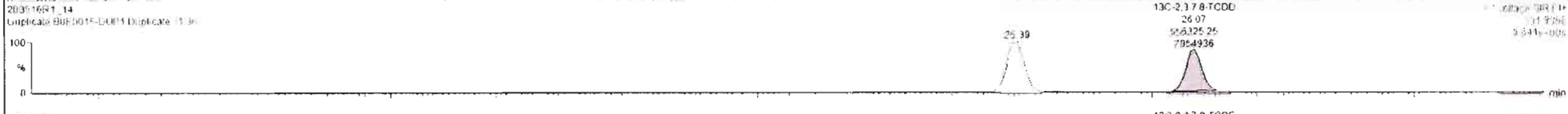
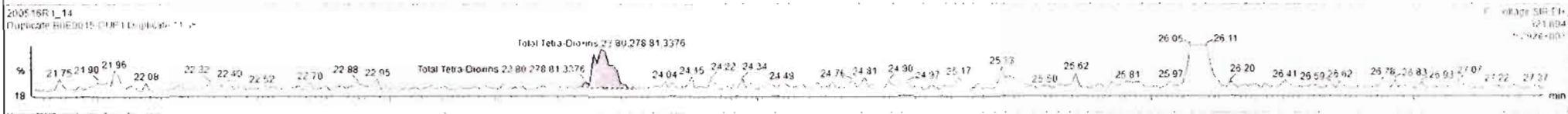
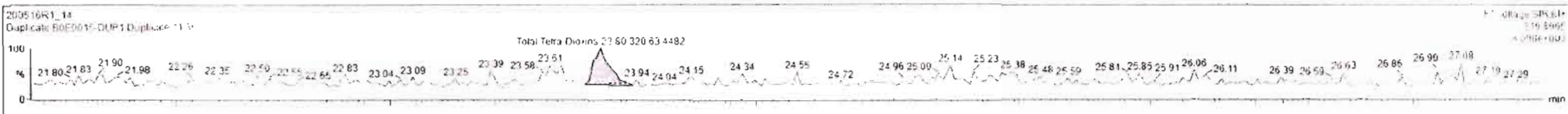
200516R1_14



F1:Voltage SIR,EI+
333.934
1.184e+007

Name	Resp	RA	nly	RNF	wVol	RT	RRT	Conc	%Rec	CL	EMPC
39 Total Tetra-Dioxins				0.9475	10.060			0.000		0.0301	0.0818
40 Total Penta-Dioxins				0.6425	10.060			0.000		0.0175	0.0745

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Dioxins	23.80	1.206e1	2.738e2	1.15	NFS	0.081841	0.00000



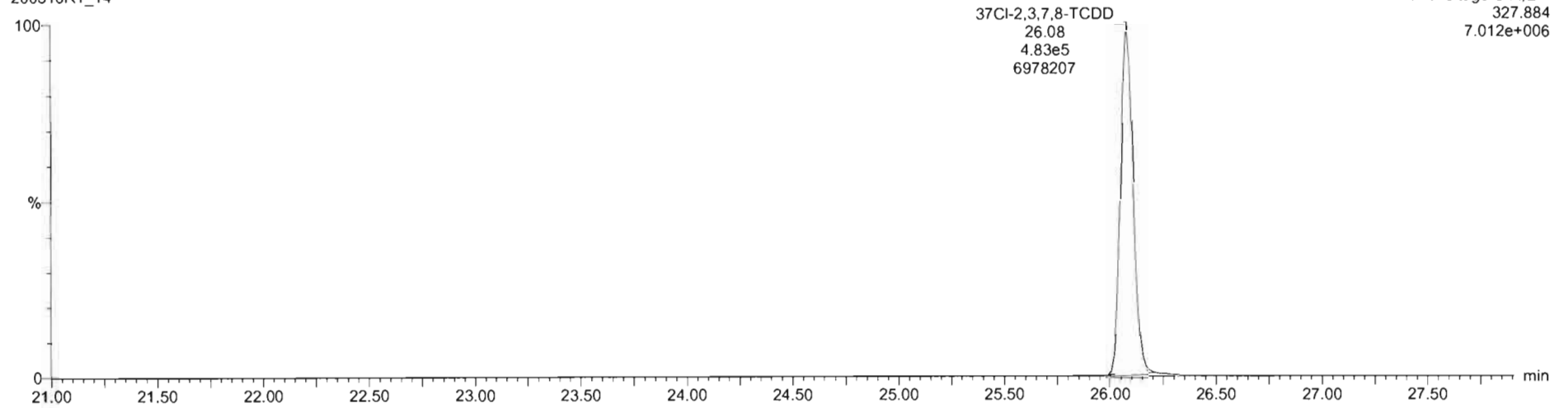
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Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, Description: Duplicate

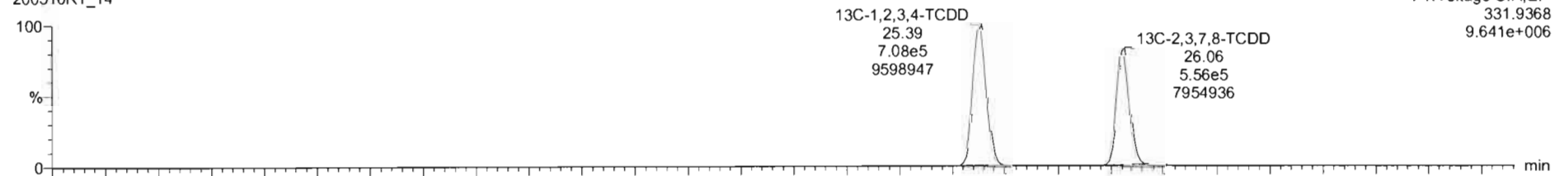
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200516R1_14

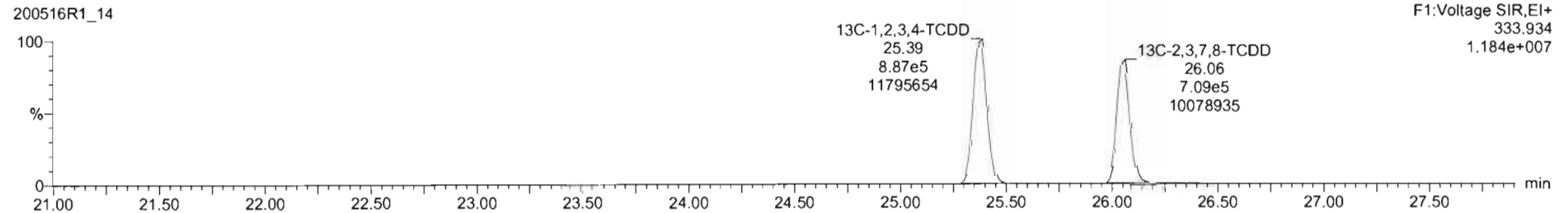


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200516R1_14



200516R1_14



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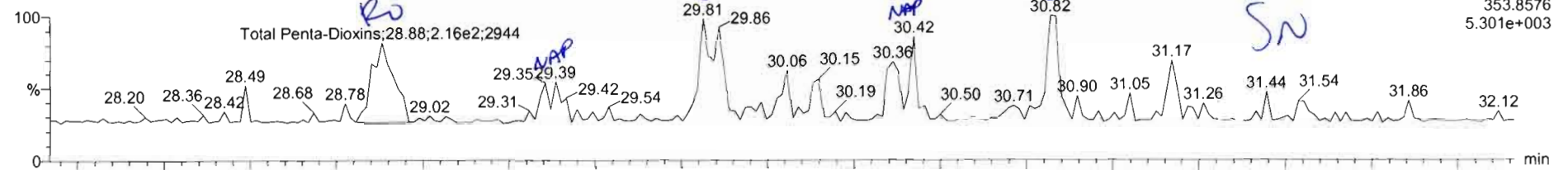
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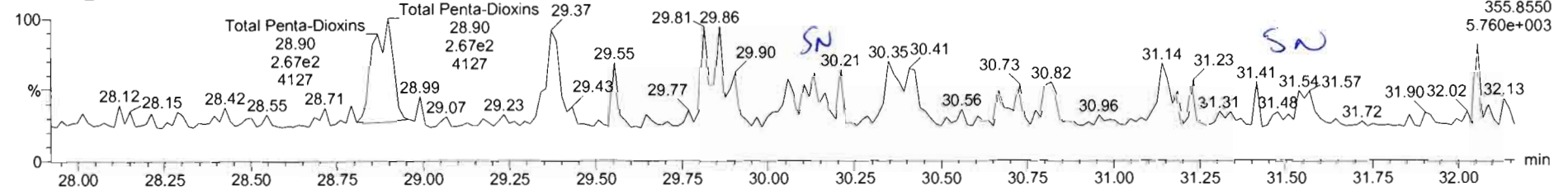
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1,2,3,7,8-PeCDD

200516R1_14

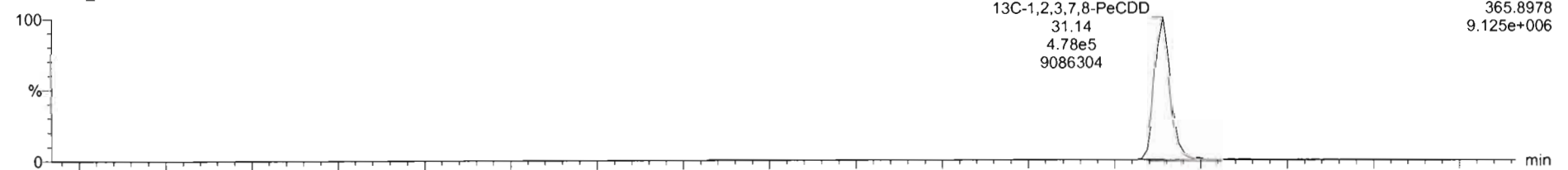


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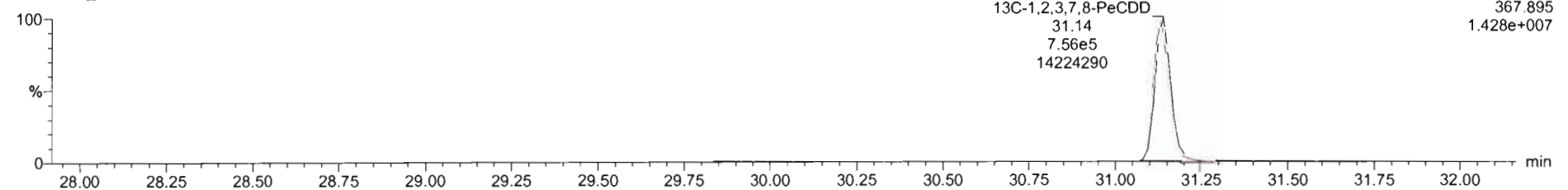


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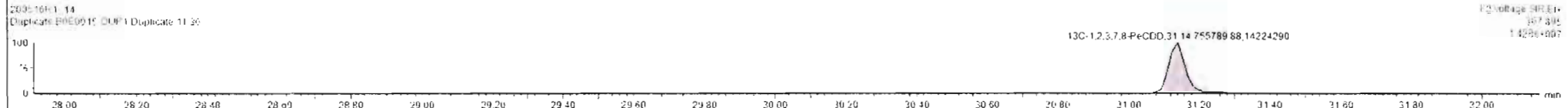
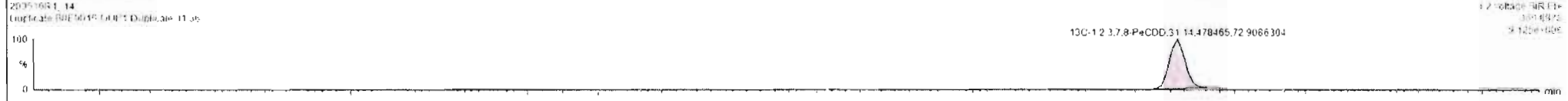
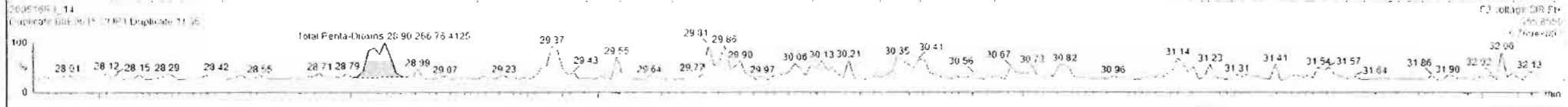
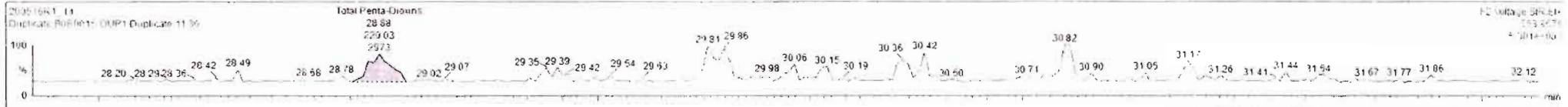


200516R1_14



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.060			0.000	0.0301	0.0818	
40 Total Penta-Dioxins				0.9425	10.050			0.000	0.0179	0.0743	

Name	RT	m1 Resp	m2 Resp	RA	n/y	FwPC	Conc
1 Total Penta-Dioxins	28.36	2.200e2	2.669e2	0.32	1.5	0.074114	0.00000



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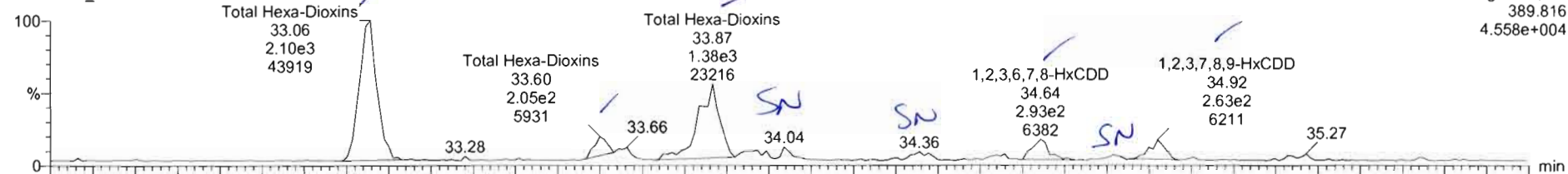
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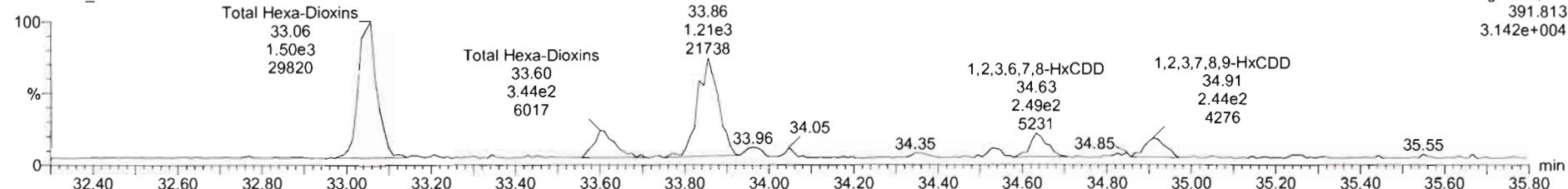
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1,2,3,4,7,8-HxCDD

200516R1_14

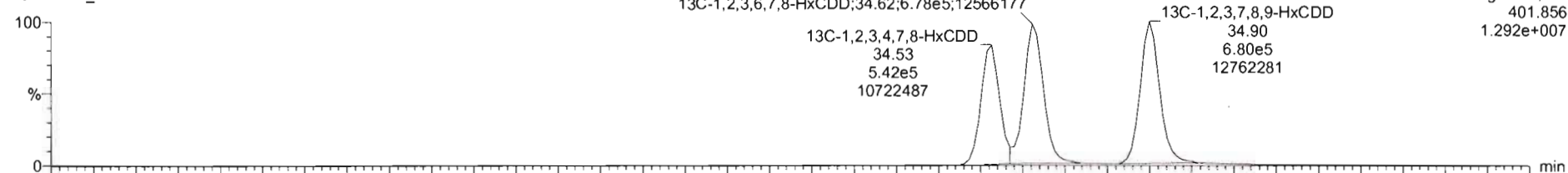


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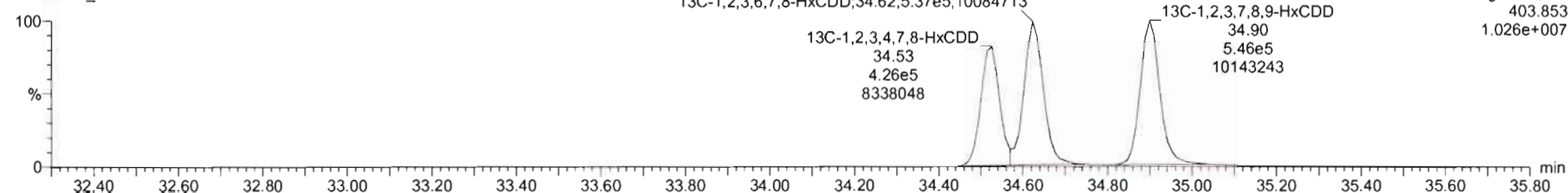


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200516R1_14



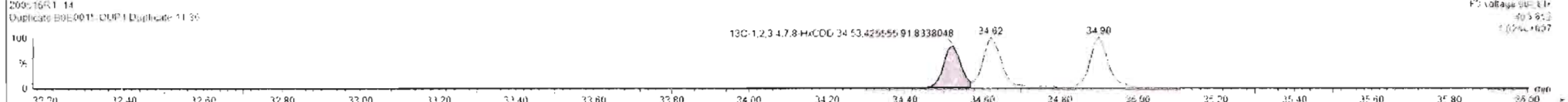
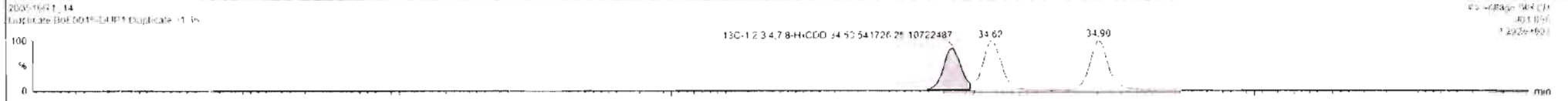
200516R1_14



200516R1_14 - 80E0015-DUP1 Duplicate 11.38 - Duplicate

Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
41 Total Hexa-Chlorins				0.9145	10.068			1.45		0.0261	1.45
42 Total Hexa-Chlorins				0.8979	10.068			7.31		0.0500	7.31

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Chlorins	33.06	2.194e3	1.496e3	1.40	NO	0.68934	0.48934
2 Total Hexa-Chlorins	33.60	2.990e2	2.644e2	1.13	NO	0.10785	0.10785
3 Total Hexa-Chlorins	33.87	1.297e3	1.163e3	1.11	NO	0.47073	0.47073
4 1,2,3,7,8-HxCDD	34.64	2.652e2	2.493e2	1.06	NO	0.092058	0.092058
5 1,2,3,7,8-HxCDD	34.90	2.531e2	2.444e2	1.06	NO	0.089626	0.089626



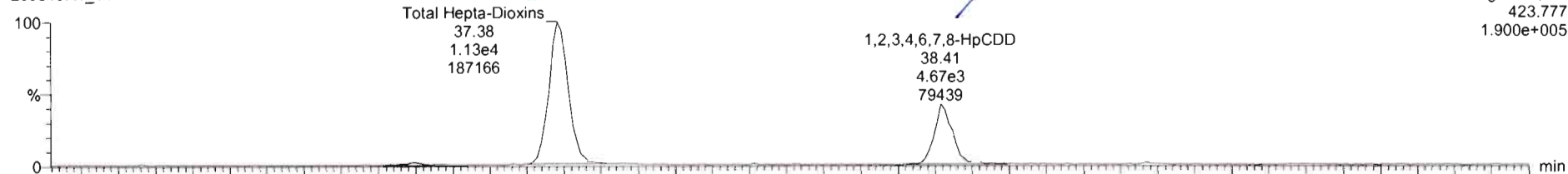
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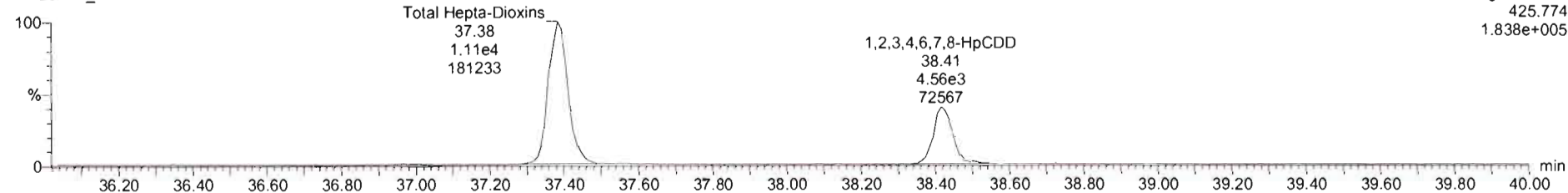
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1,2,3,4,6,7,8-HpCDD

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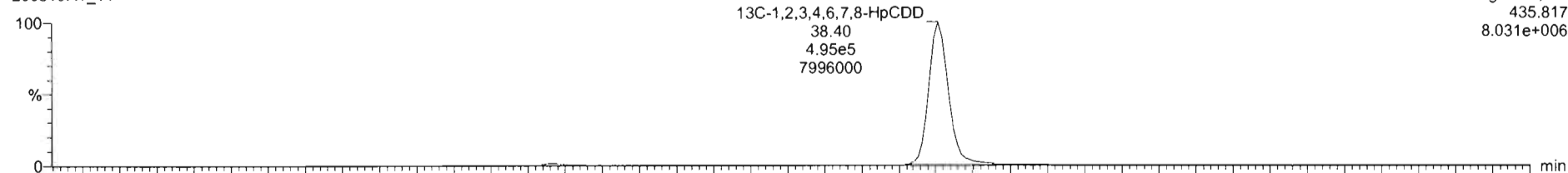


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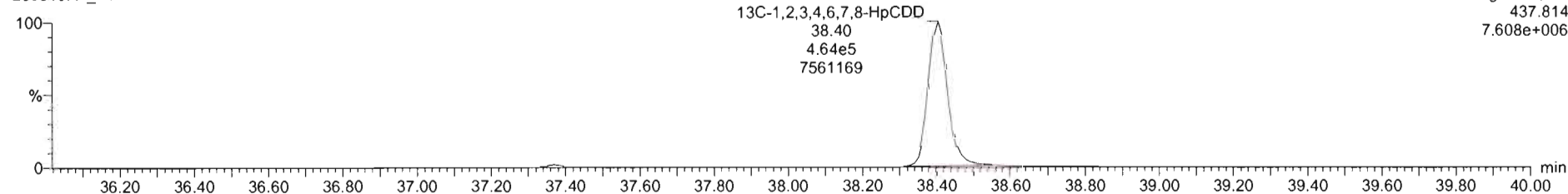


13C-1,2,3,4,6,7,8-HpCDD

200516R1_14



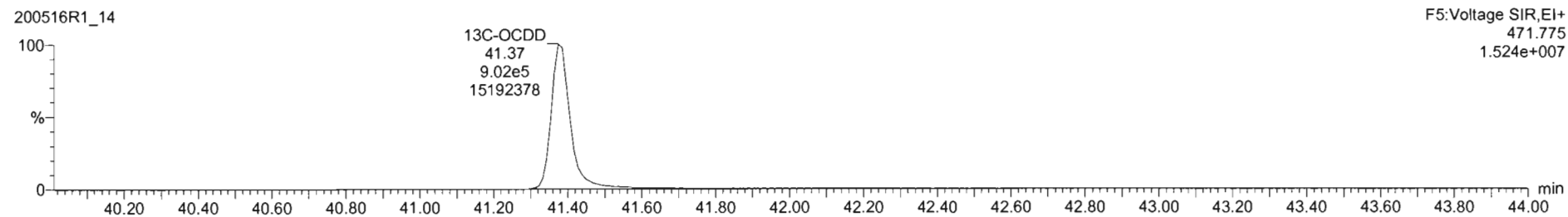
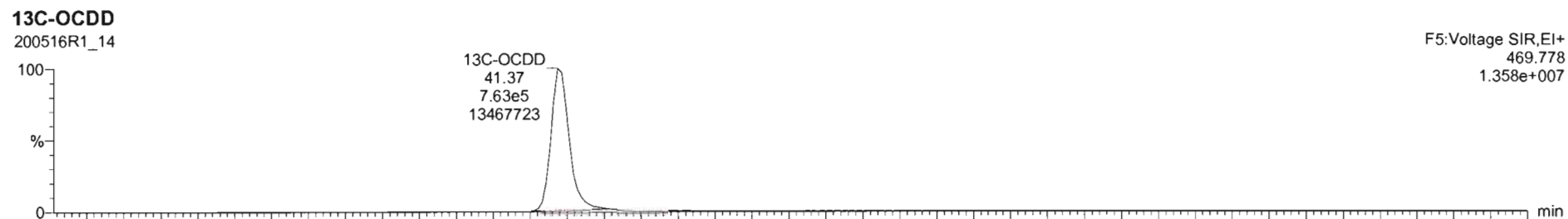
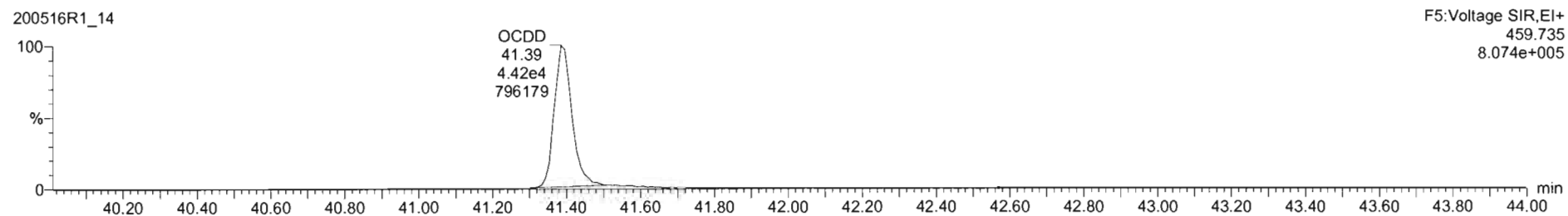
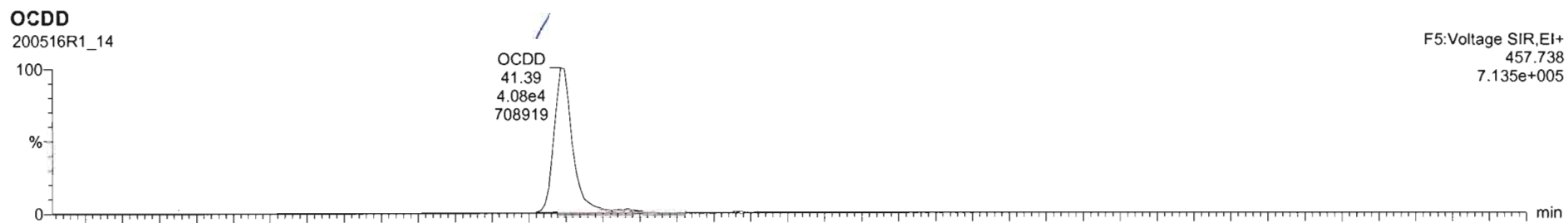
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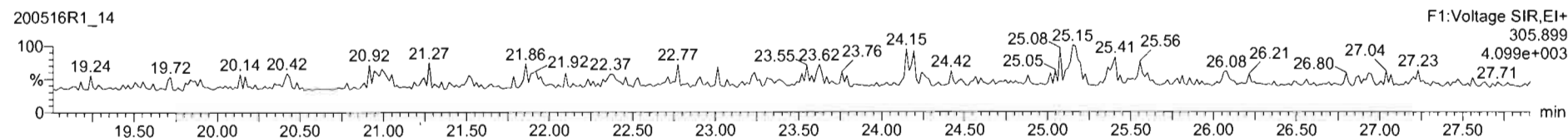
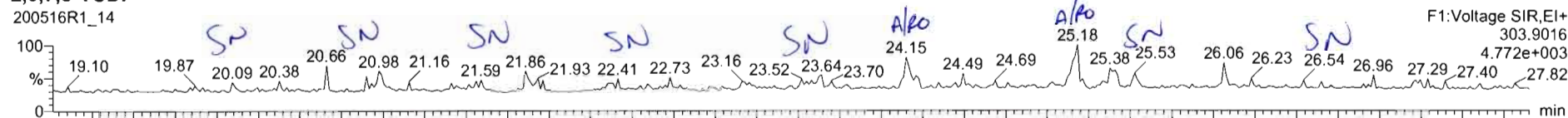


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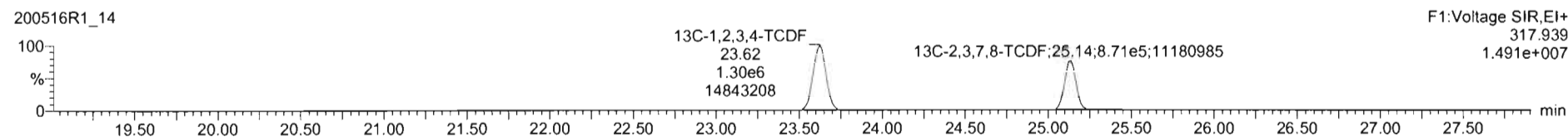
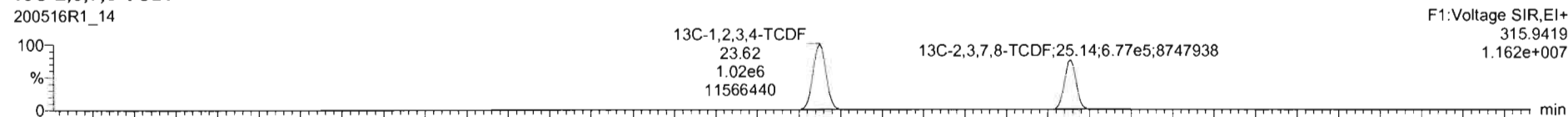
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, Description: Duplicate

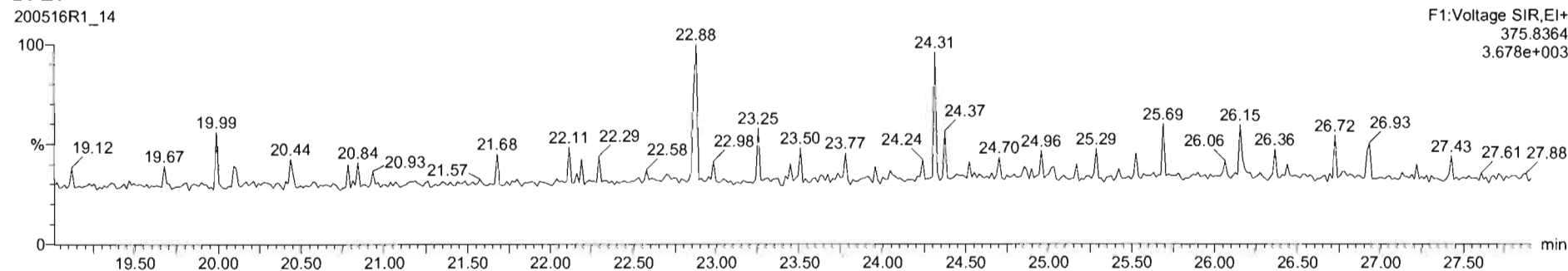
2,3,7,8-TCDF

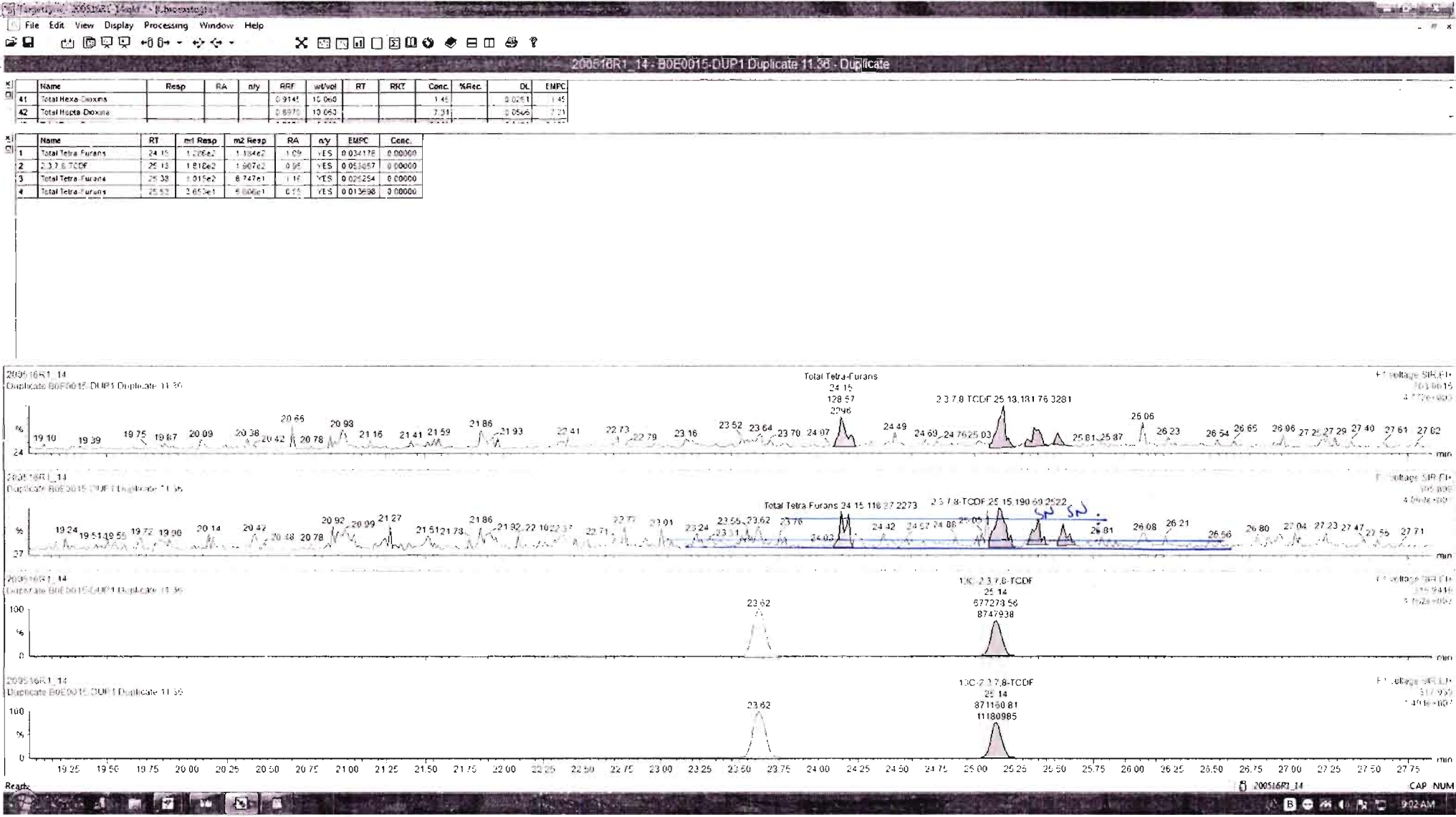


13C-2,3,7,8-TCDF



DPE1





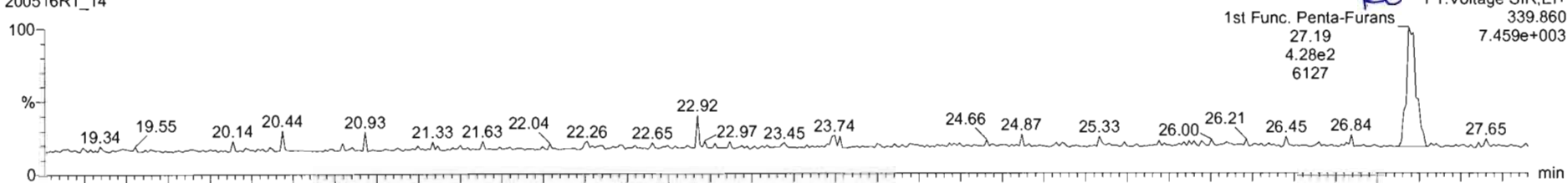
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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

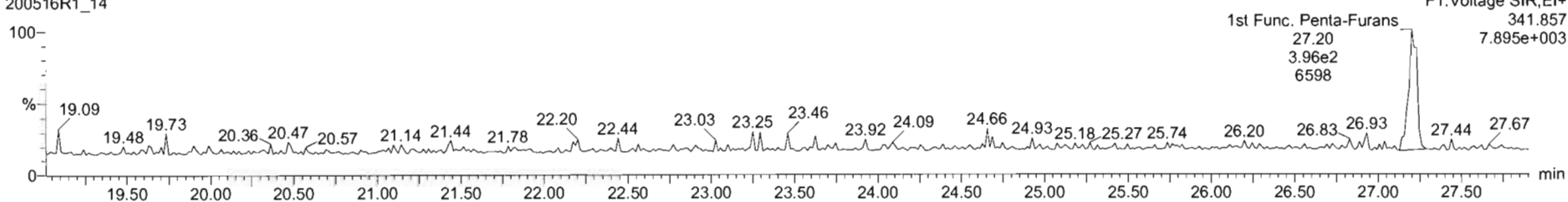
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1st Func. Penta-Furans

200516R1_14

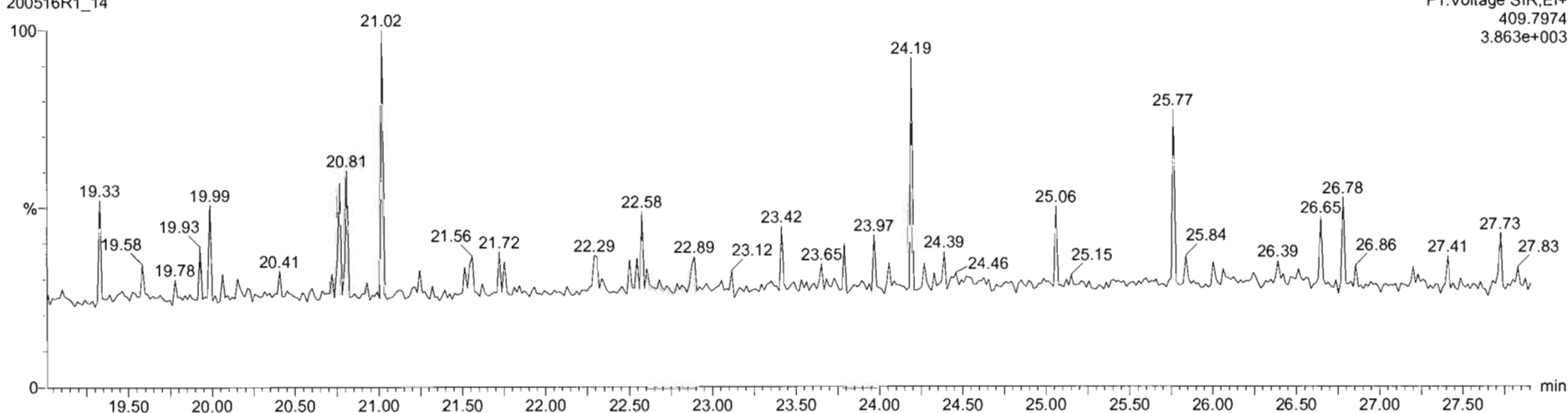


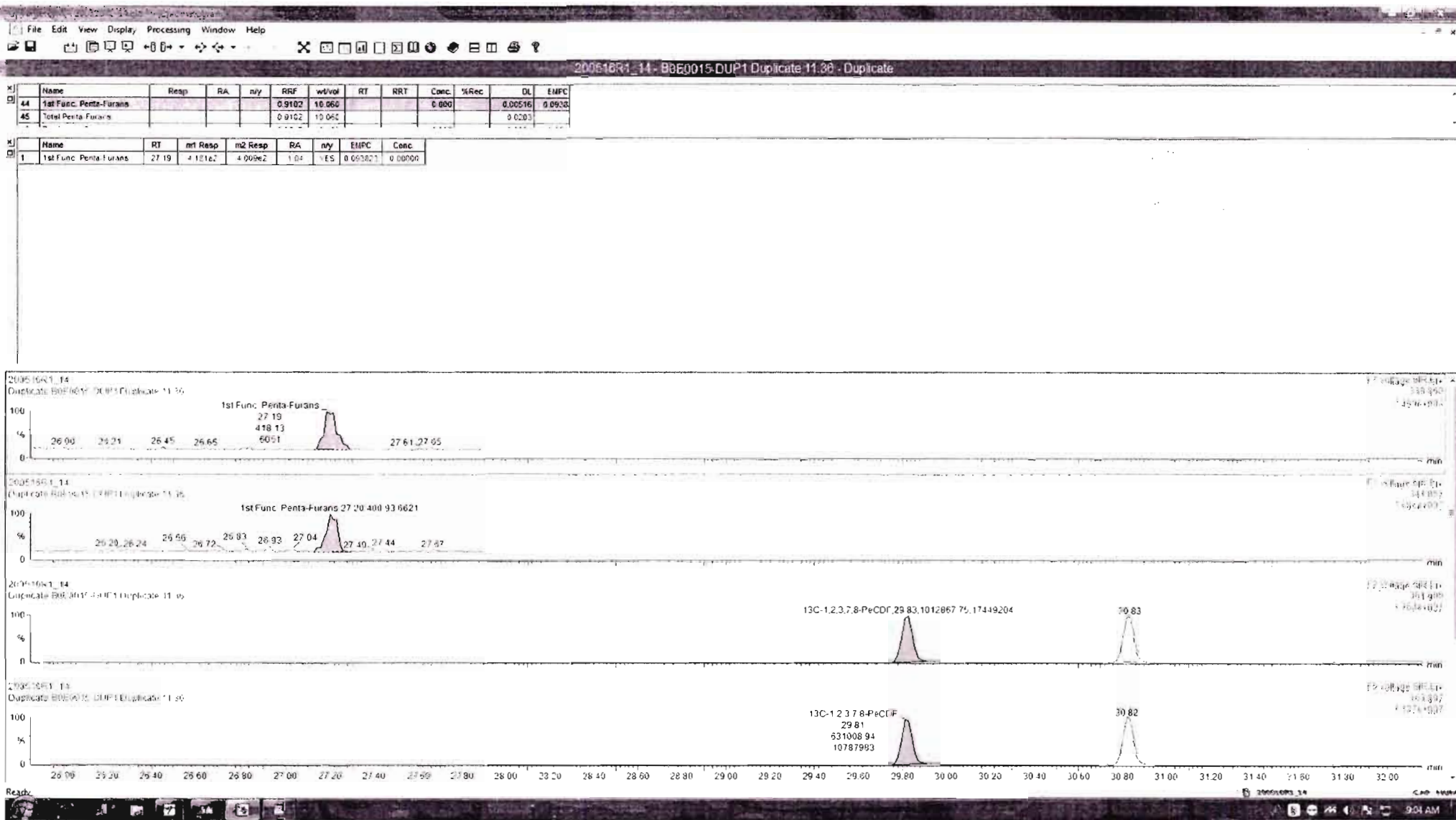
200516R1_14



DPE6

200516R1_14





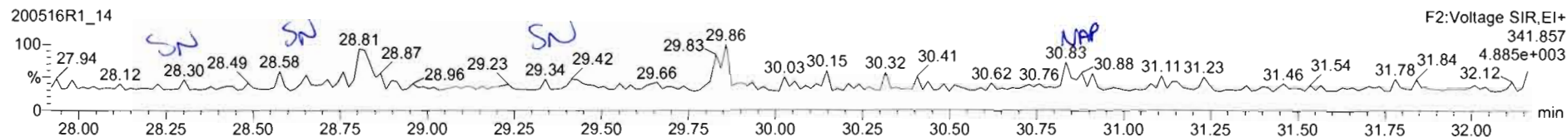
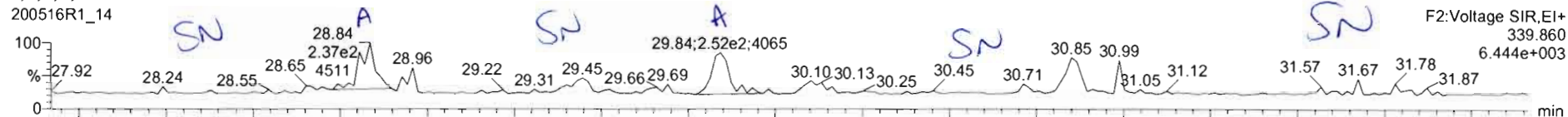
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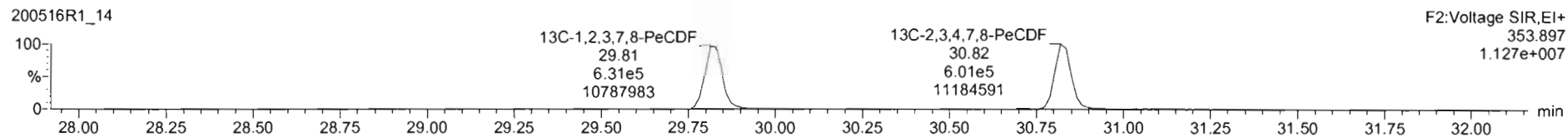
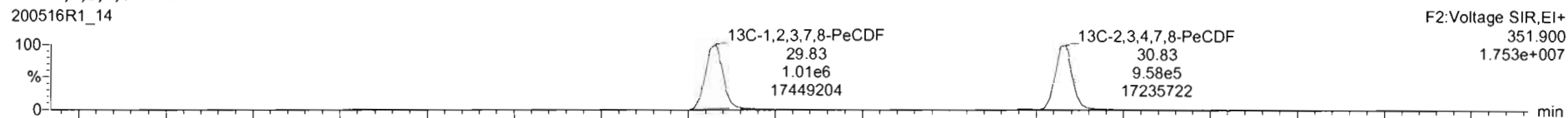
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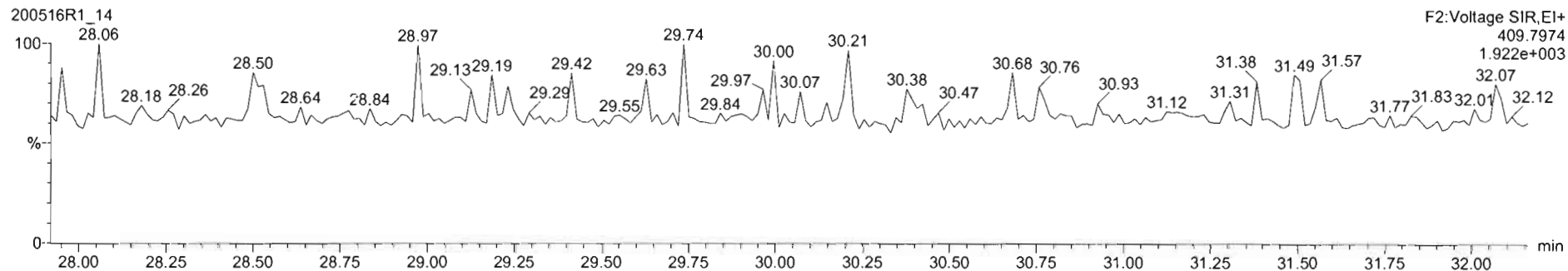
1,2,3,7,8-PeCDF



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



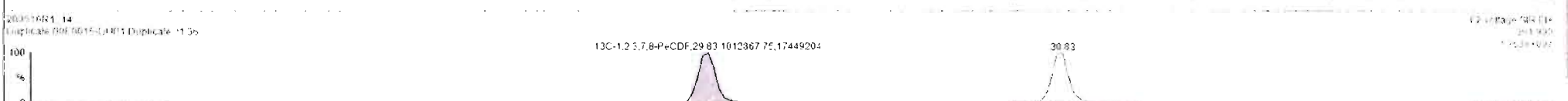
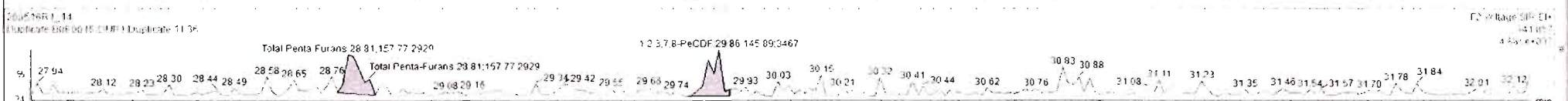
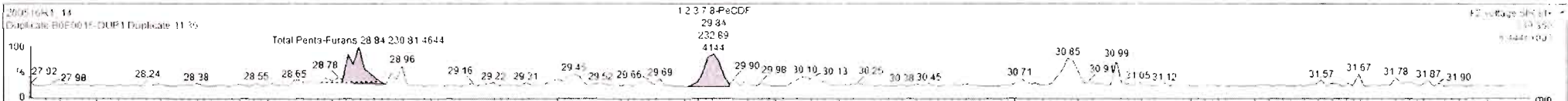
DPE2



200516R1_14 - B0E0015-DUP1 Duplicate 11 38 - Duplicate

Name	Reap	RA	ny	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9122	10.060			0.000		0.00516	0.0530
45 Total Penta-Furans				0.9102	10.060			0.103		0.0203	0.103

Name	RT	m1 Resp	m2 Resp	RA	ny	EMPC	Conc
1 Total Penta-Furans	28.84	2.308e2	1.579e2	1.46	NO	0.052999	0.012999
2 1,2,3,7,8-PeCDF	29.84	2.325e2	1.459e2	1.60	NO	0.050329	0.010329

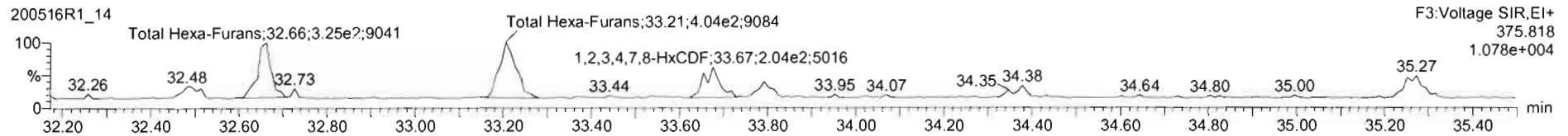
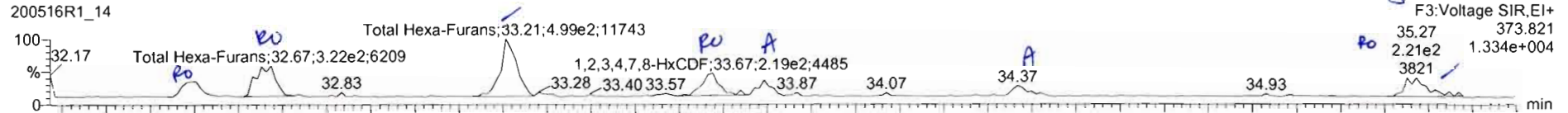


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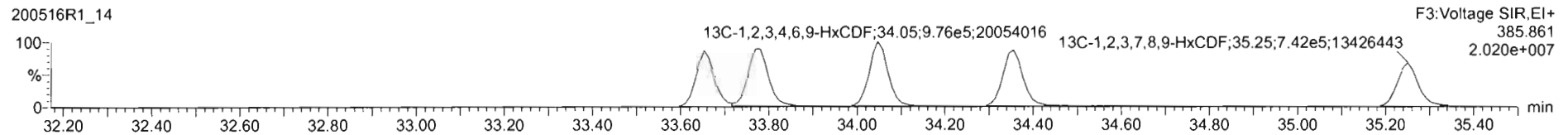
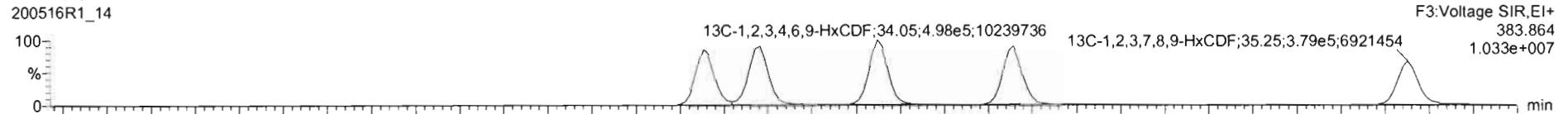
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Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, Description: Duplicate

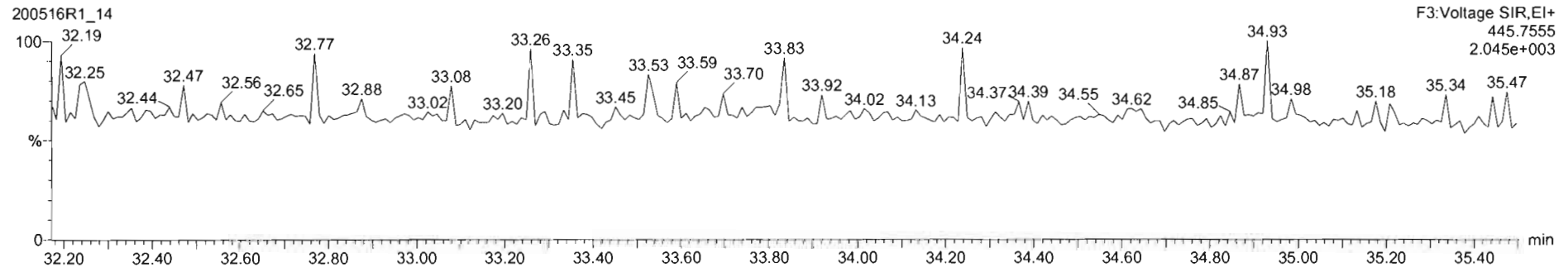
1,2,3,4,7,8-HxCDF



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

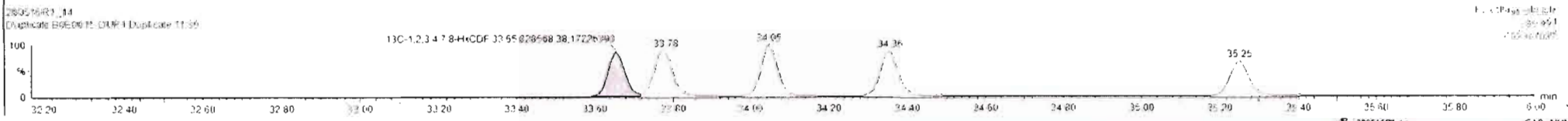
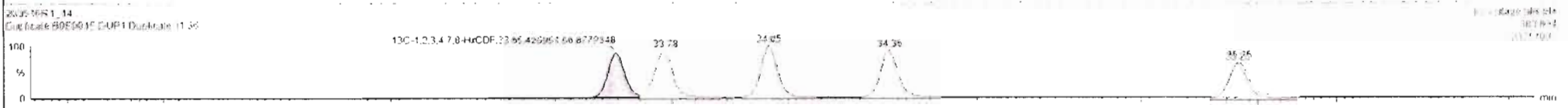
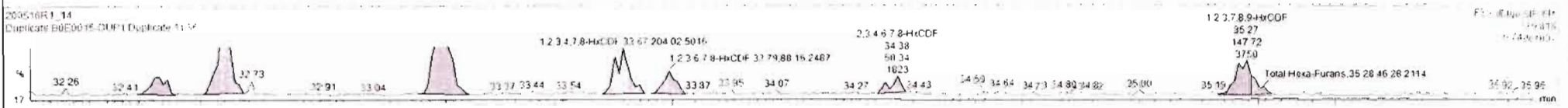
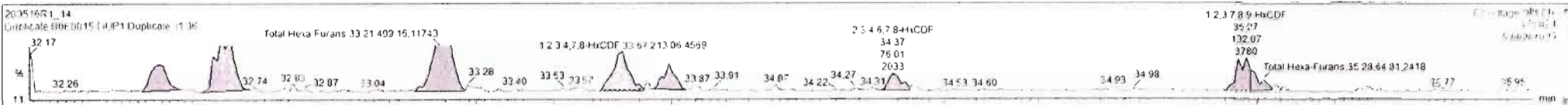


DPE3



Name	Resp	RA	n/y	RRF	wbVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9217	10.060			0.221		0.0221	0.469
47 Total Hepta-Furans				0.8712	10.060			0.809		0.0285	0.295

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.49	1.451e2	8.540e1	1.75	YES	0.031525	0.00000
2 Total Hexa-Furans	32.67	2.215e2	1.255e2	0.59	YES	0.091061	0.00000
3 Total Hexa-Furans	33.21	4.950e2	4.043e2	1.23	NO	0.15000	0.15000
4 1,2,3,4,7,8-HxCDF	33.67	2.131e2	2.040e2	1.04	YES	0.069393	0.00000
5 1,2,3,6,7,8-HxCDF	33.79	1.036e2	8.816e1	1.18	NO	0.030791	0.010793
6 2,3,4,6,7,8-HxCDF	34.37	7.501e1	1.624e1	1.50	NO	0.021083	0.021083
7 1,2,3,7,8,9-HxCDF	35.27	1.121e2	1.477e2	0.85	YES	0.043950	0.00000
8 Total Hexa-Furans	35.28	6.421e1	4.525e1	1.40	NO	0.018541	0.018541



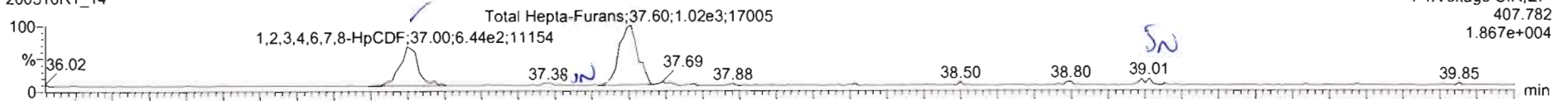
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Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

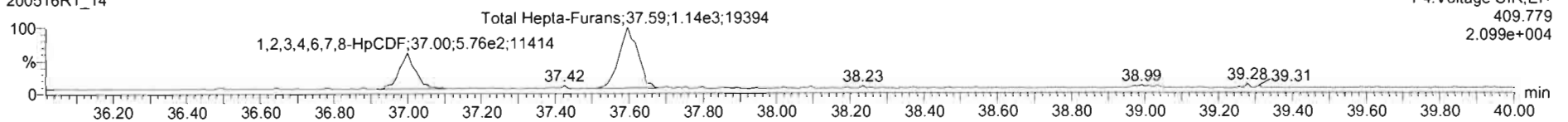
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1,2,3,4,6,7,8-HpCDF

200516R1_14

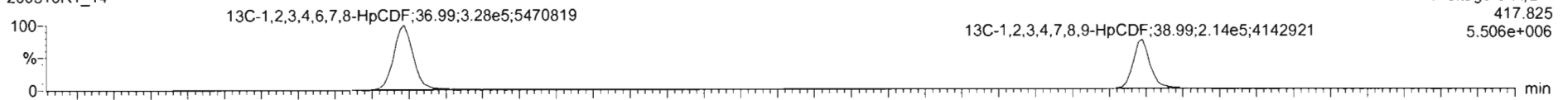


200516R1_14

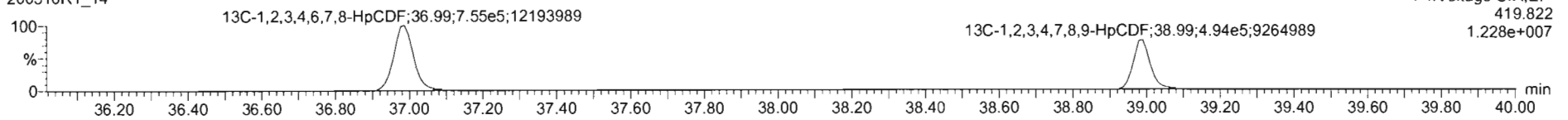


13C-1,2,3,4,6,7,8-HpCDF

200516R1_14

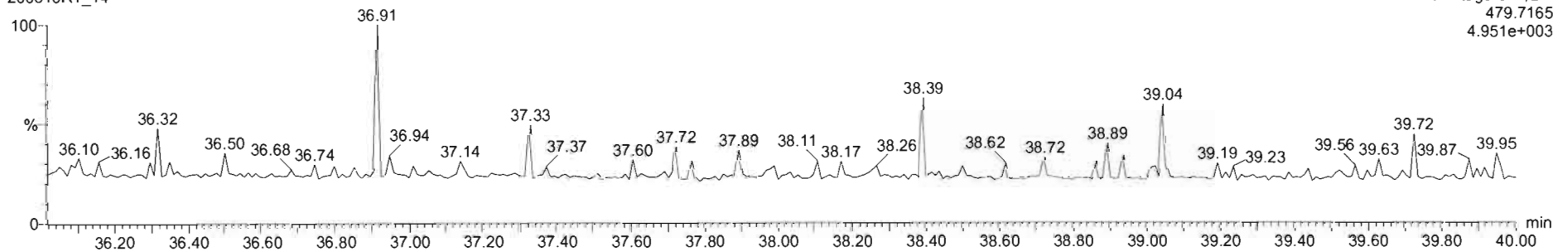


200516R1_14



DPE4

200516R1_14



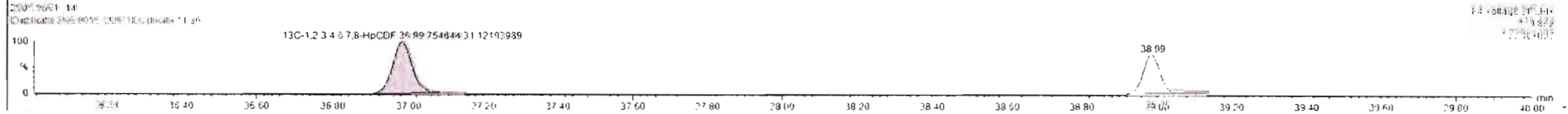
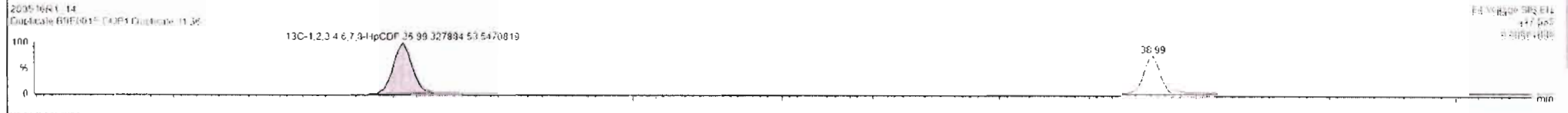
Targetly

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200516R1_14 - B0E0015-DUP1 Duplicate 11.36 - Duplicate

Name	Resp	RA	n/y	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
46 Total Hexa-Furans				0.9217	10.060			0.221		0.0221	0.465
47 Total Hepta-Furans				0.8712	10.050			0.814		0.0288	0.614

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.00	6.062e2	5.752e2	1.16	NO	0.20181	0.20181
2 Total Hepta-Furans	37.60	1.021e3	1.144e3	0.89	NO	0.55170	0.55170

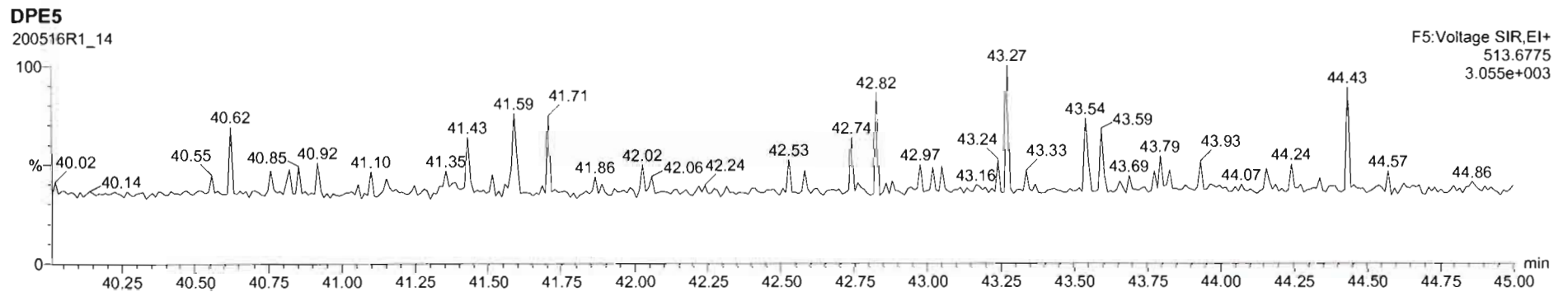
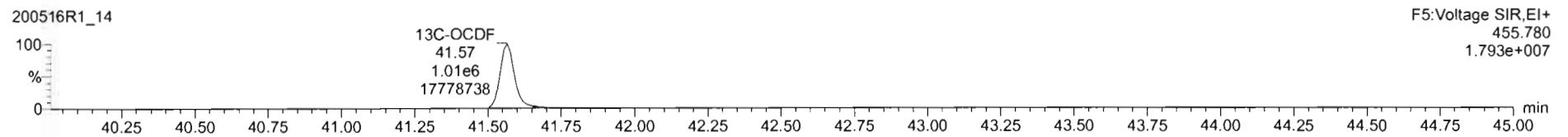
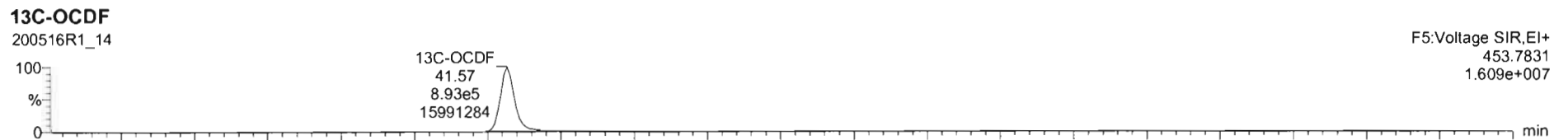
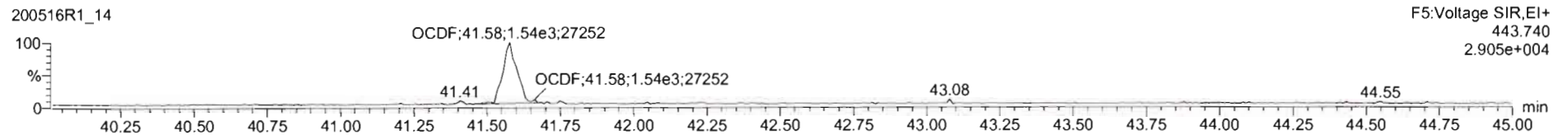
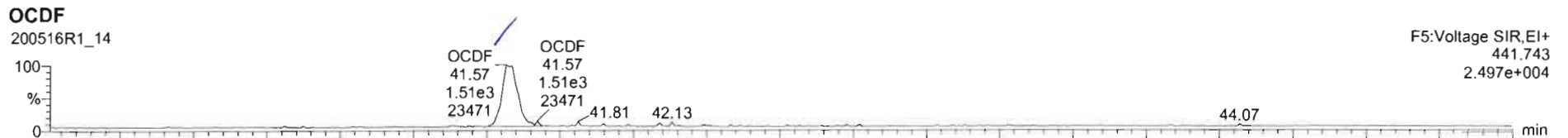


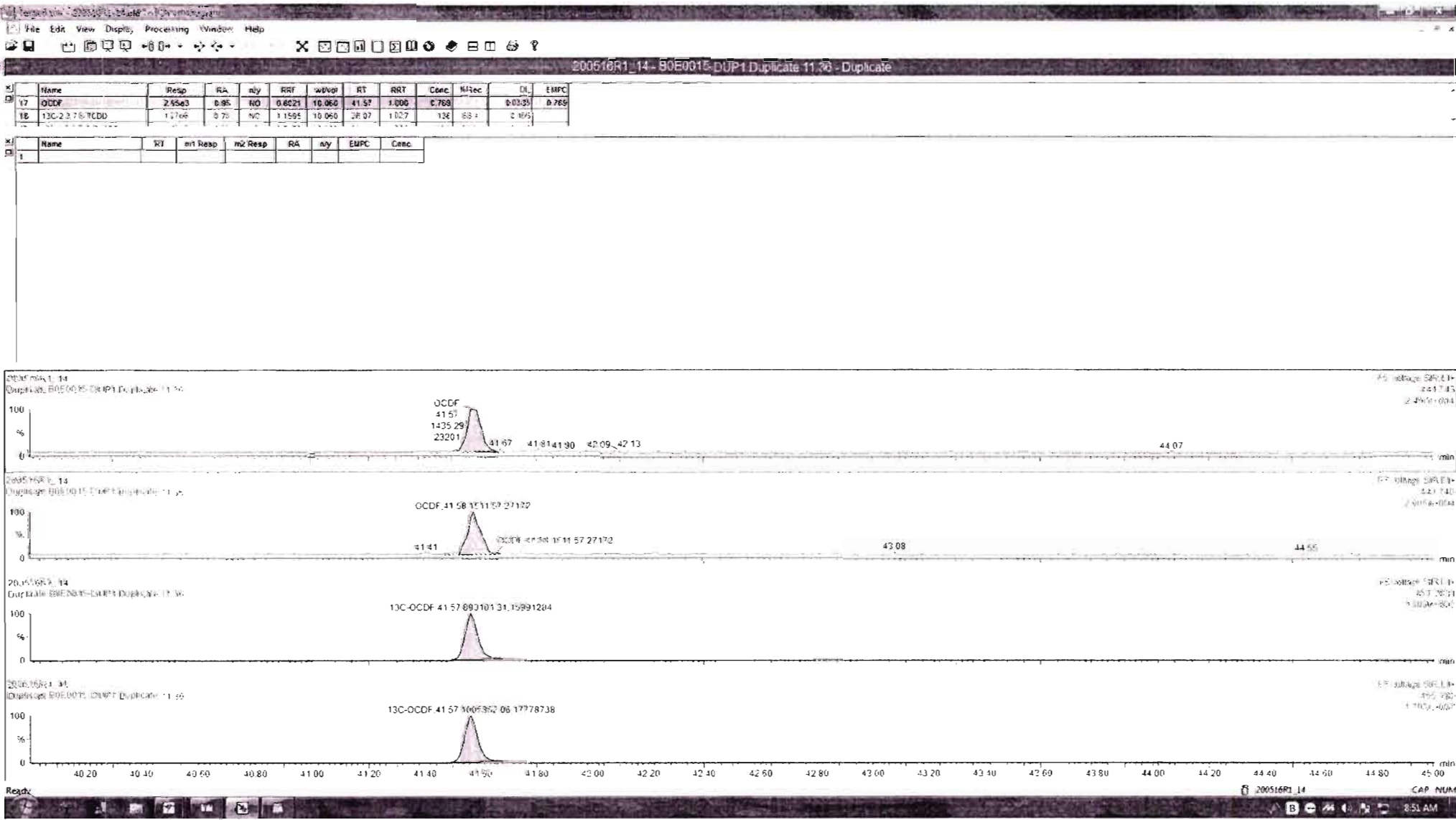
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Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time

Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_14, Date: 16-May-2020, Time: 19:12:40, ID: B0E0015-DUP1 Duplicate 11.36, Description: Duplicate



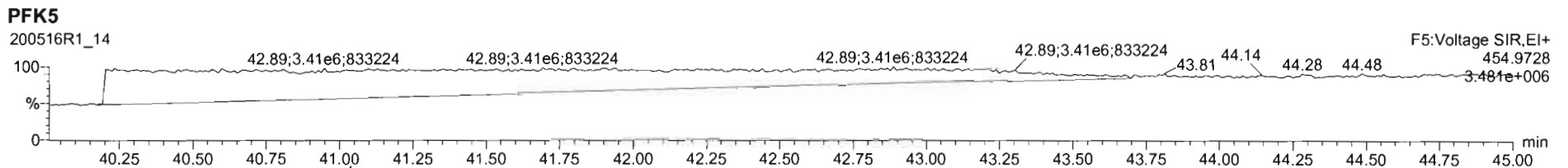
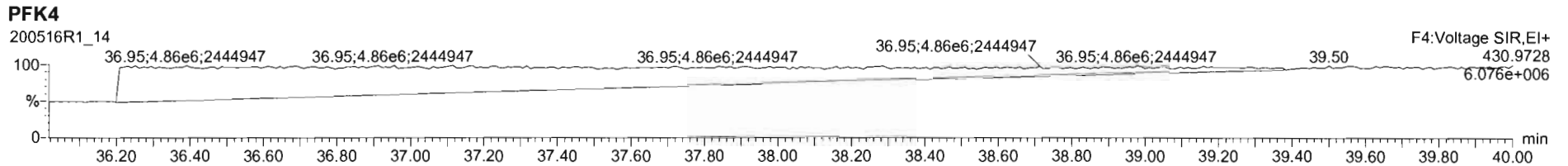
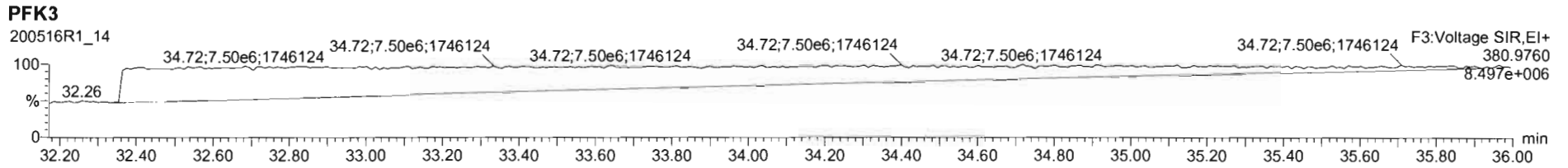
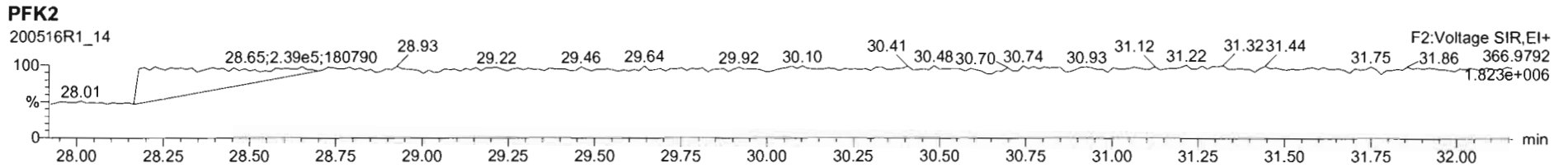
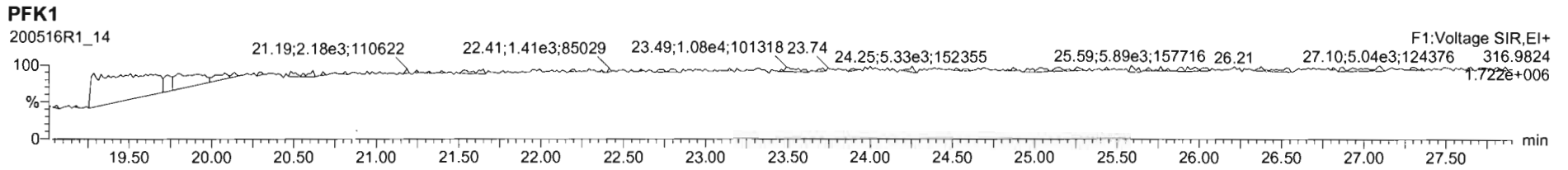


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Dataset: U:\VG12.PRO\Results\200516R1\200516R1-15a.qld

Last Altered: Monday, May 18, 2020 4:25:06 PM Pacific Daylight Time
Printed: Monday, May 18, 2020 4:32:57 PM Pacific Daylight Time

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07 05/22/2020

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Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_15, Date: 16-May-2020, Time: 19:58:50, ID: 2000950-04 PDI-156SC-A-02-03-200423 12.29, Description: PDI-156SC-A-02-03-200423

	# 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	0.947	10.046	26.096		1.001				0.0708	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.046	31.162		1.001				0.0629	
3	3 1,2,3,4,7,8-HxCDD	2.15e2	1.06	NO	1.06	10.046	34.537	34.54	1.000	1.000	0.056266		0.0556	0.0563
4	4 1,2,3,6,7,8-HxCDD	8.46e2	1.09	NO	0.915	10.046	34.633	34.64	1.000	1.000	0.20770		0.0536	0.208
5	5 1,2,3,7,8,9-HxCDD	4.84e2	1.20	NO	0.915	10.046	34.920	34.92	1.000	1.000	0.11164		0.0529	0.112
6	6 1,2,3,4,6,7,8-HpCDD	1.63e4	1.03	NO	0.898	10.046	38.426	38.42	1.000	1.000	4.5654		0.0845	4.57
7	7 OCDD	1.43e5	0.86	NO	0.933	10.046	41.396	41.41	1.000	1.000	43.835		0.0993	43.8
8	8 2,3,7,8-TCDF	1.58e3	0.82	NO	0.787	10.046	25.177	25.18	1.001	1.001	0.35655		0.0693	0.357
9	9 1,2,3,7,8-PeCDF	2.14e3	1.30	YES	0.910	10.046	29.849	29.86	1.001	1.001	0.39241		0.0441	0.365
10	10 2,3,4,7,8-PeCDF	7.40e2	1.73	NO	0.966	10.046	30.854	30.85	1.001	1.000	0.13681		0.0405	0.137
11	11 1,2,3,4,7,8-HxCDF	2.42e3	1.32	NO	0.878	10.046	33.664	33.69	1.000	1.001	0.59572		0.0435	0.596
12	12 1,2,3,6,7,8-HxCDF	6.03e2	1.14	NO	0.874	10.046	33.791	33.79	1.000	1.000	0.13423		0.0405	0.134
13	13 2,3,4,6,7,8-HxCDF	3.31e2	1.40	NO	0.922	10.046	34.401	34.37	1.001	1.000	0.069551		0.0381	0.0696
14	14 1,2,3,7,8,9-HxCDF	3.46e2	1.21	NO	0.864	10.046	35.262	35.28	1.000	1.001	0.098642		0.0581	0.0986
15	15 1,2,3,4,6,7,8-HpCDF	3.80e3	0.94	NO	0.871	10.046	37.024	37.00	1.001	1.000	1.0267		0.0458	1.03
16	16 1,2,3,4,7,8,9-HpCDF	3.61e2	1.19	NO	1.01	10.046	38.989	39.01	1.000	1.001	0.13179		0.0556	0.132
17	17 OCDF	1.01e4	0.87	NO	0.802	10.046	41.577	41.60	1.000	1.001	3.2199		0.0539	3.22
18	18 13C-2,3,7,8-TCDD	9.11e5	0.78	NO	1.16	10.046	26.061	26.07	1.026	1.027	97.732	49.1	0.120	
19	19 13C-1,2,3,7,8-PeCDD	8.76e5	0.63	NO	0.847	10.046	31.160	31.14	1.227	1.226	128.72	64.7	0.226	
20	20 13C-1,2,3,4,7,8-HxCDD	7.14e5	1.29	NO	0.750	10.046	34.538	34.53	1.014	1.014	131.54	66.1	0.250	
21	21 13C-1,2,3,6,7,8-HxCDD	8.87e5	1.29	NO	0.963	10.046	34.651	34.63	1.017	1.017	127.35	64.0	0.194	
22	22 13C-1,2,3,7,8,9-HxCDD	9.44e5	1.25	NO	0.838	10.046	34.920	34.91	1.025	1.025	155.84	78.3	0.223	
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.91e5	1.04	NO	0.641	10.046	38.414	38.41	1.128	1.128	170.55	85.7	0.248	
24	24 13C-OCDD	1.39e6	0.89	NO	0.586	10.046	41.411	41.40	1.216	1.215	328.67	82.5	0.275	
25	25 13C-2,3,7,8-TCDF	1.12e6	0.77	NO	1.03	10.046	25.119	25.15	0.989	0.991	93.831	47.1	0.190	
26	26 13C-1,2,3,7,8-PeCDF	1.19e6	1.59	NO	0.845	10.046	29.847	29.83	1.176	1.175	122.12	61.3	0.306	
27	27 13C-2,3,4,7,8-PeCDF	1.11e6	1.58	NO	0.814	10.046	30.840	30.83	1.215	1.214	118.59	59.6	0.318	
28	28 13C-1,2,3,4,7,8-HxCDF	9.22e5	0.51	NO	1.00	10.046	33.677	33.66	0.989	0.988	126.77	63.7	0.321	
29	29 13C-1,2,3,6,7,8-HxCDF	1.02e6	0.52	NO	1.14	10.046	33.799	33.78	0.992	0.992	124.43	62.5	0.284	
30	30 13C-2,3,4,6,7,8-HxCDF	1.03e6	0.51	NO	1.02	10.046	34.368	34.37	1.009	1.009	138.94	69.8	0.316	
31	31 13C-1,2,3,7,8,9-HxCDF	8.09e5	0.51	NO	0.845	10.046	35.260	35.26	1.035	1.035	132.33	66.5	0.382	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-15a.qld

Last Altered: Monday, May 18, 2020 4:25:06 PM Pacific Daylight Time

Printed: Monday, May 18, 2020 4:32:57 PM Pacific Daylight Time

Name: 200516R1_15, Date: 16-May-2020, Time: 19:58:50, ID: 2000950-04 PDI-156SC-A-02-03-200423 12.29, Description: PDI-156SC-A-02-03-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.45e5	0.43	NO	0.771	10.046	36.994	36.99	1.086	1.086	151.50	76.1	0.247	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.39e5	0.43	NO	0.482	10.046	39.007	38.99	1.145	1.145	154.38	77.5	0.395	
34	34 13C-OCDF	1.56e6	0.88	NO	0.669	10.046	41.581	41.58	1.221	1.221	322.42	81.0	0.238	
35	35 37Cl-2,3,7,8-TCDD	3.57e5			1.10	10.046	26.092	26.09	1.028	1.028	40.432	50.8	0.0465	
36	36 13C-1,2,3,4-TCDD	1.60e6	0.79	NO	1.00	10.046	25.350	25.39	1.000	1.000	199.08	100	0.139	
37	37 13C-1,2,3,4-TCDF	2.30e6	0.78	NO	1.00	10.046	23.560	23.64	1.000	1.000	199.08	100	0.196	
38	38 13C-1,2,3,4,6,9-HxCDF	1.44e6	0.52	NO	1.00	10.046	34.000	34.06	1.000	1.000	199.08	100	0.323	
39	39 Total Tetra-Dioxins				0.947	10.046	24.620		0.000		0.16935		0.0708	0.169
40	40 Total Penta-Dioxins				0.942	10.046	29.960		0.000		0.00000		0.0302	0.0925
41	41 Total Hexa-Dioxins				0.915	10.046	33.635		0.000		1.7860		0.0565	1.89
42	42 Total Hepta-Dioxins				0.898	10.046	37.640		0.000		10.101		0.0845	10.1
43	43 Total Tetra-Furans				0.787	10.046	23.610		0.000		0.63039		0.0693	0.735
44	44 1st Func. Penta-Furans				0.910	10.046	27.090		0.000		0.30321		0.0235	0.303
45	45 Total Penta-Furans				0.910	10.046	29.275		0.000		0.39853		0.0435	0.836
46	46 Total Hexa-Furans				0.922	10.046	33.555		0.000		1.3305		0.0425	1.96
47	47 Total Hepta-Furans				0.871	10.046	37.835		0.000		3.7294		0.0531	3.73

Vista Analytical Laboratory

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Name: 200516R1_15, Date: 16-May-2020, Time: 19:58:50, ID: 2000950-04 PDI-156SC-A-02-03-200423 12.29, Description: PDI-156SC-A-02-03-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	25.83	5.181e3	7.154e3	3.244e2	4.095e2	0.79	NO	7.339e2	0.16935	0.16935	0.0708

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.91	4.152e3	3.900e3	2.008e2	2.354e2	0.85	YES	0.000e0	0.00000	0.092502	0.0302

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.07	3.132e4	2.344e4	1.501e3	1.089e3	1.38	NO	2.589e3	0.66449	0.66449	0.0565
2	Total Hexa-Dioxins	33.62	5.101e3	5.902e3	2.315e2	2.318e2	1.00	YES	0.000e0	0.00000	0.10730	0.0565
3	Total Hexa-Dioxins	33.87	3.047e4	2.248e4	1.647e3	1.259e3	1.31	NO	2.907e3	0.74592	0.74592	0.0565
4	1,2,3,4,7,8-HxCDD	34.54	4.350e3	3.275e3	1.103e2	1.043e2	1.06	NO	2.146e2	0.056266	0.056266	0.0556
5	1,2,3,6,7,8-HxCDD	34.64	9.405e3	1.324e4	4.418e2	4.046e2	1.09	NO	8.464e2	0.20770	0.20770	0.0536
6	1,2,3,7,8,9-HxCDD	34.92	4.689e3	4.393e3	2.639e2	2.205e2	1.20	NO	4.845e2	0.11164	0.11164	0.0529

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	1.629e5	1.605e5	9.933e3	9.825e3	1.01	NO	1.976e4	5.5353	5.5353	0.0845
2	1,2,3,4,6,7,8-HpCDD	38.42	1.348e5	1.258e5	8.263e3	8.033e3	1.03	NO	1.630e4	4.5654	4.5654	0.0845

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.98	2.730e3	4.887e3	2.022e2	3.133e2	0.65	YES	0.000e0	0.00000	0.10492	0.0693
2	Total Tetra-Furans	24.21	5.440e3	9.373e3	5.395e2	6.739e2	0.80	NO	1.213e3	0.27384	0.27384	0.0693
3	2,3,7,8-TCDF	25.18	1.061e4	1.134e4	7.140e2	8.659e2	0.82	NO	1.580e3	0.35655	0.35655	0.0693

Vista Analytical Laboratory

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Name: 200516R1_15, Date: 16-May-2020, Time: 19:58:50, ID: 2000950-04 PDI-156SC-A-02-03-200423 12.29, Description: PDI-156SC-A-02-03-200423

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.22	1.747e4	9.930e3	9.496e2	6.488e2	1.46	NO	1.598e3	0.30321	0.30321	0.0235

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.85	1.042e4	6.297e3	6.887e2	4.059e2	1.70	NO	1.095e3	0.20764	0.20764	0.0435
2	1,2,3,7,8-PeCDF	29.86	2.014e4	1.792e4	1.207e3	9.303e2	1.30	YES	2.138e3	0.00000	0.36463	0.0441
3	Total Penta-Furans	30.10	3.949e3	2.889e3	2.331e2	1.982e2	1.18	YES	0.000e0	0.00000	0.072747	0.0435
4	2,3,4,7,8-PeCDF	30.85	9.573e3	5.737e3	4.693e2	2.709e2	1.73	NO	7.402e2	0.13681	0.13681	0.0405
5	Total Penta-Furans	30.88	6.013e3	4.349e3	1.658e2	1.193e2	1.39	NO	2.851e2	0.054078	0.054078	0.0435

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.50	7.843e3	5.538e3	3.381e2	2.202e2	1.54	YES	0.000e0	0.00000	0.11271	0.0425
2	Total Hexa-Furans	32.67	2.133e4	1.567e4	1.075e3	8.167e2	1.32	NO	1.892e3	0.43234	0.43234	0.0425
3	Total Hexa-Furans	33.22	3.218e4	2.045e4	1.397e3	9.497e2	1.47	YES	0.000e0	0.00000	0.48610	0.0425
4	1,2,3,4,7,8-HxCDF	33.69	2.731e4	2.134e4	1.377e3	1.045e3	1.32	NO	2.422e3	0.59572	0.59572	0.0435
5	1,2,3,6,7,8-HxCDF	33.79	6.464e3	7.126e3	3.209e2	2.821e2	1.14	NO	6.030e2	0.13423	0.13423	0.0405
6	2,3,4,6,7,8-HxCDF	34.37	4.791e3	3.806e3	1.930e2	1.378e2	1.40	NO	3.309e2	0.069551	0.069551	0.0381
7	1,2,3,7,8,9-HxCDF	35.28	3.885e3	4.010e3	1.898e2	1.564e2	1.21	NO	3.463e2	0.098642	0.098642	0.0581
8	Total Hexa-Furans	35.31	3.714e3	3.175e3	8.803e1	6.284e1	1.40	NO	0.000e0	0.00000	0.034474	0.0425

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.00	3.219e4	3.452e4	1.845e3	1.953e3	0.94	NO	3.797e3	1.0267	1.0267	0.0458
2	Total Hepta-Furans	37.60	6.628e4	6.525e4	3.884e3	3.901e3	1.00	NO	7.784e3	2.5709	2.5709	0.0531
3	1,2,3,4,7,8,9-HpCDF	39.01	5.907e3	3.661e3	1.963e2	1.643e2	1.19	NO	3.607e2	0.13179	0.13179	0.0556

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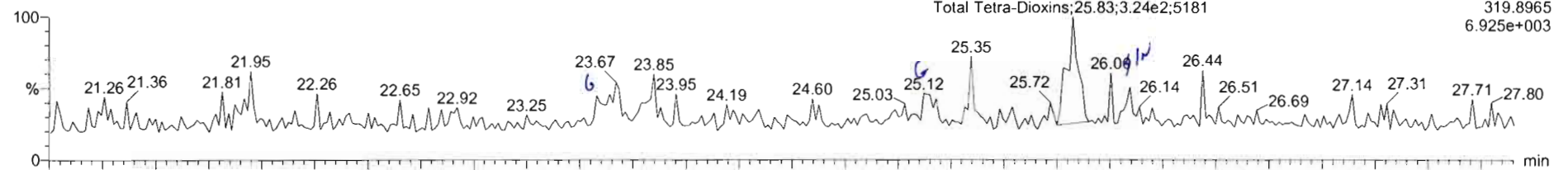
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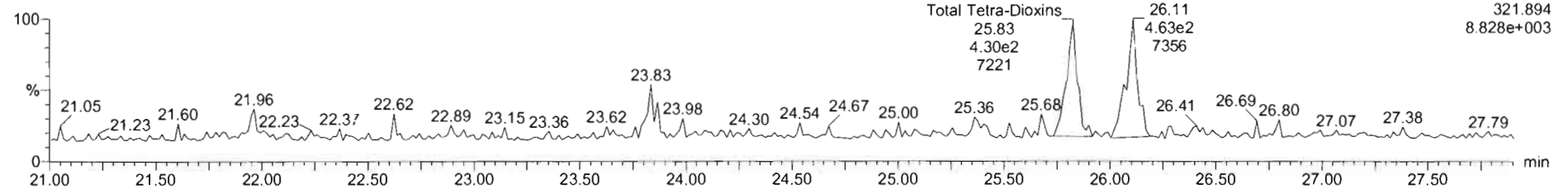
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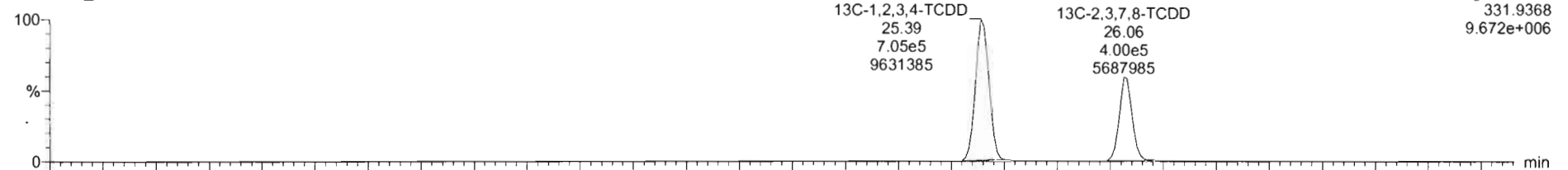


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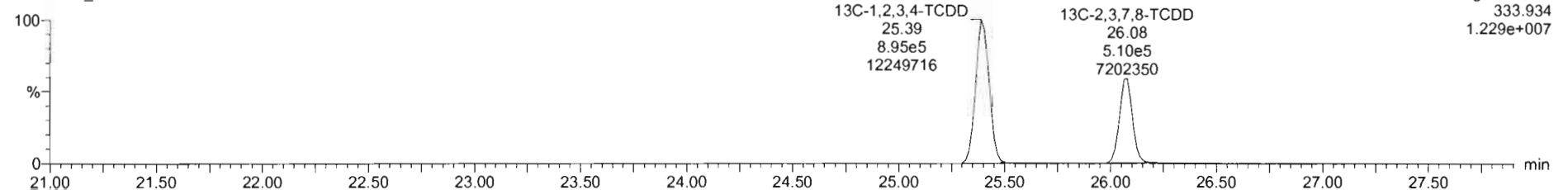


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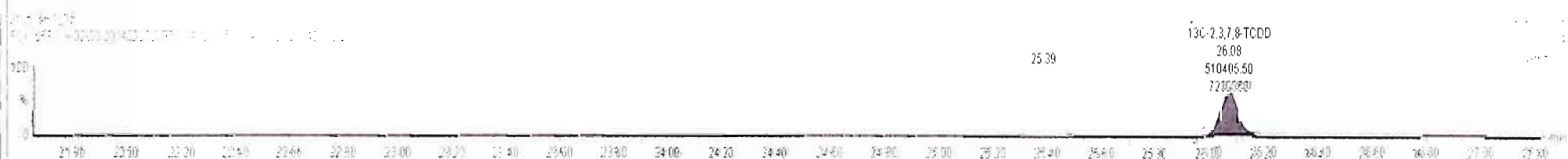
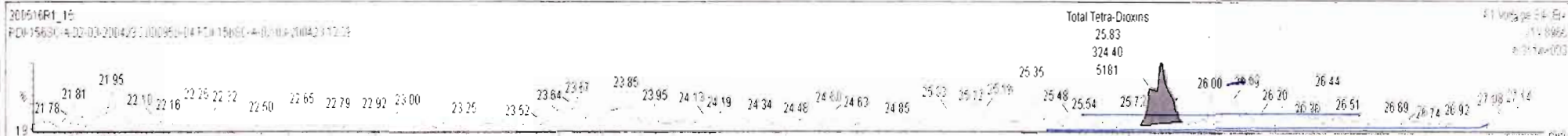


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Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.046			0.169		0.0708	0.169
40 Total Penta-Dioxins				0.9425	10.046					0.0302	
41 Total Hexa-Dioxins				0.9145	10.046			1.46		0.0565	1.65
42 Total Hepta-Dioxins				0.8979	10.046			10.1		0.0856	10.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	25.83	3.244e2	4.095e2	0.79	NO	0.16935	0.16935



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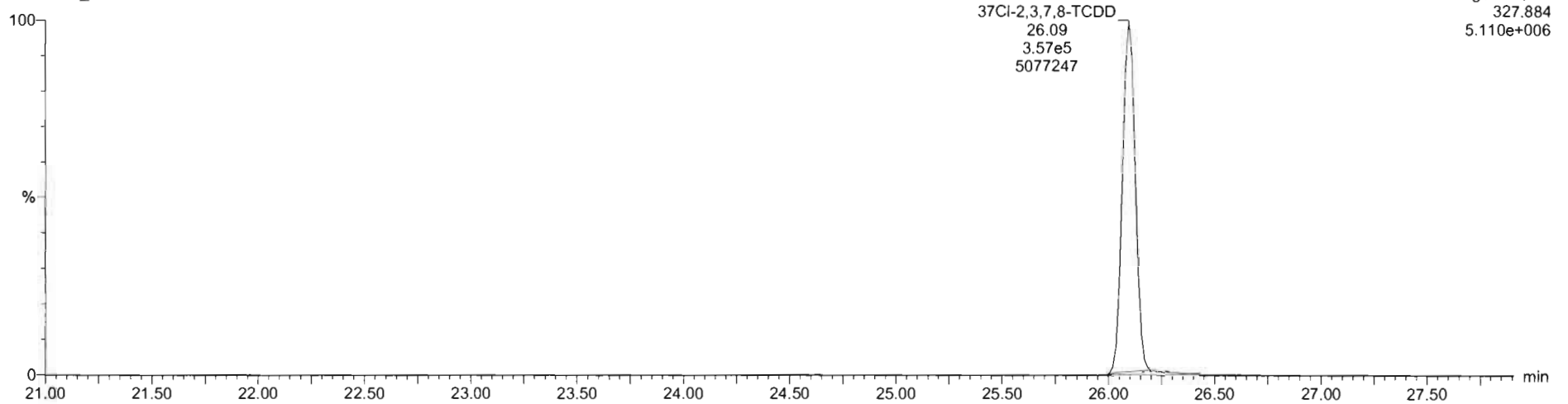
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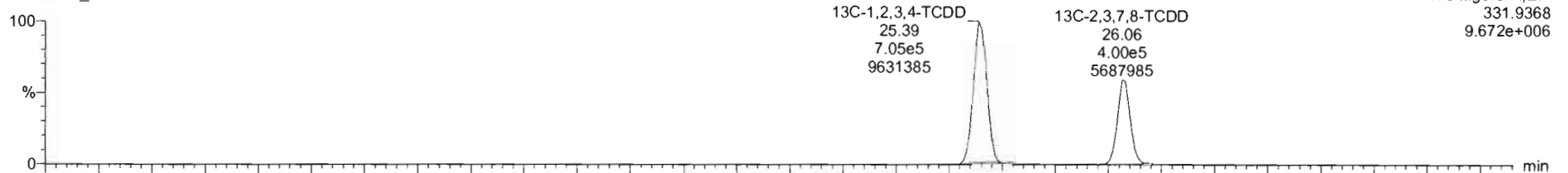
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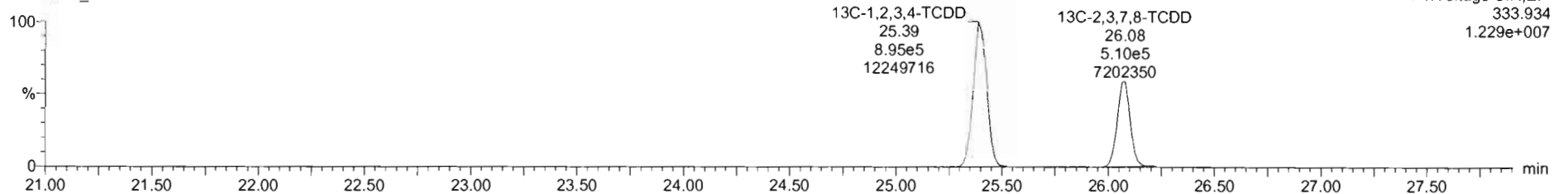


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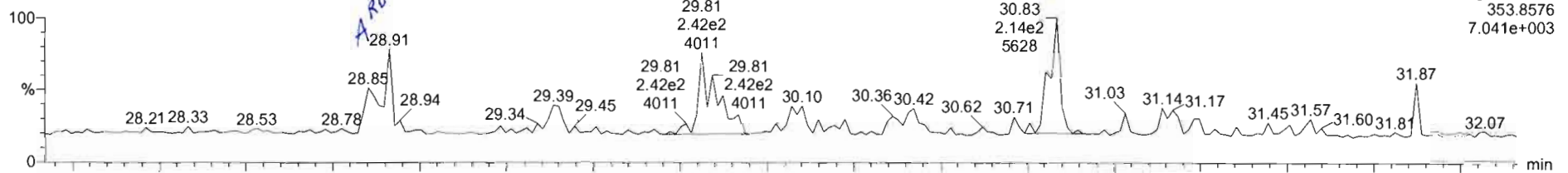
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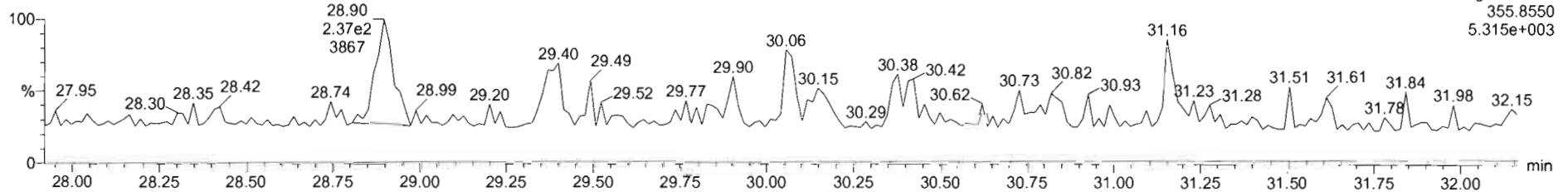
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1,2,3,7,8-PeCDD

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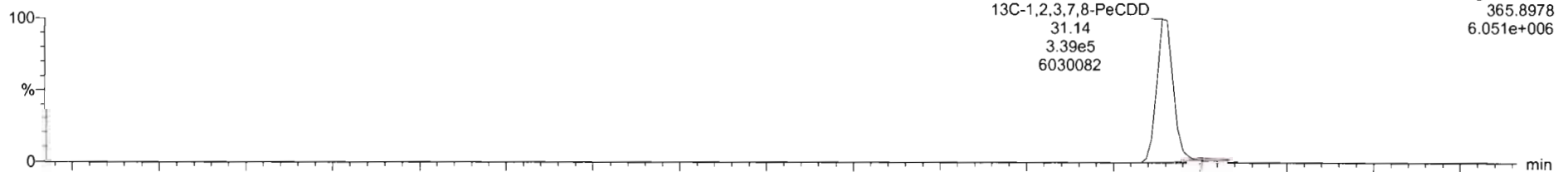


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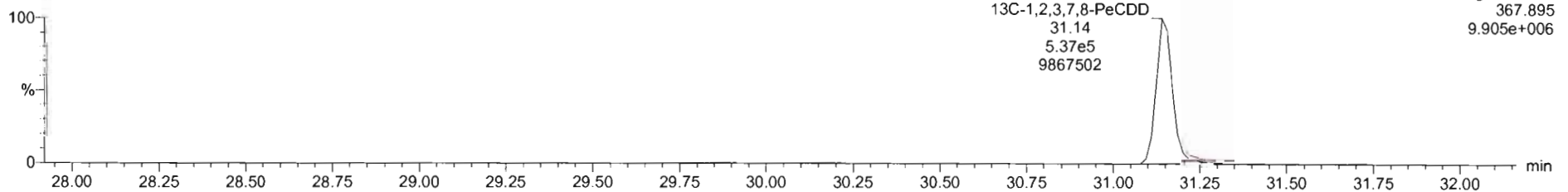


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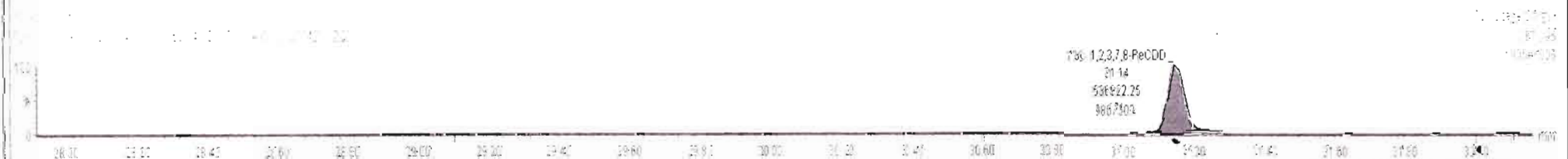
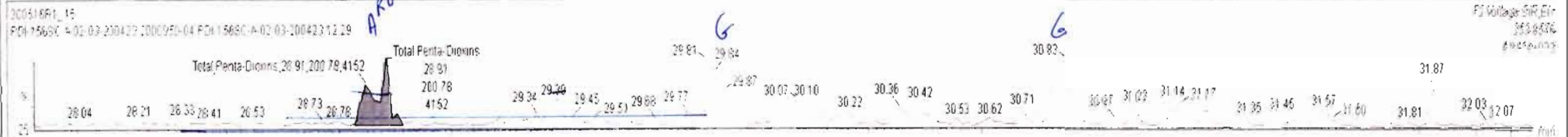


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Name	Resp	RA	n/y	RRF	w/Vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.046			0.169	0.0708	0.169	
40 Total Penta-Dioxins				0.9425	10.046			0.000	0.0302	0.0925	
41 Total Hexa-Dioxins				0.9145	10.046			1.46	0.0565	1.55	
42 Total Hepta-Dioxins				0.8979	10.046			10.1	0.0855	10.1	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	26.91	2.008e2	2.354e2	0.85	YES	0.092502	0.00000



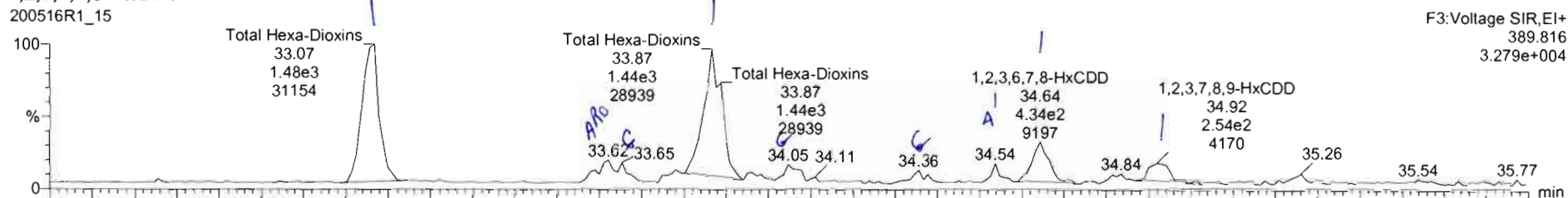
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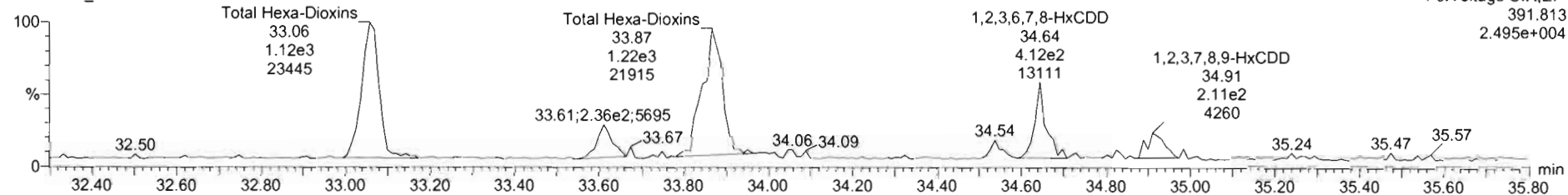
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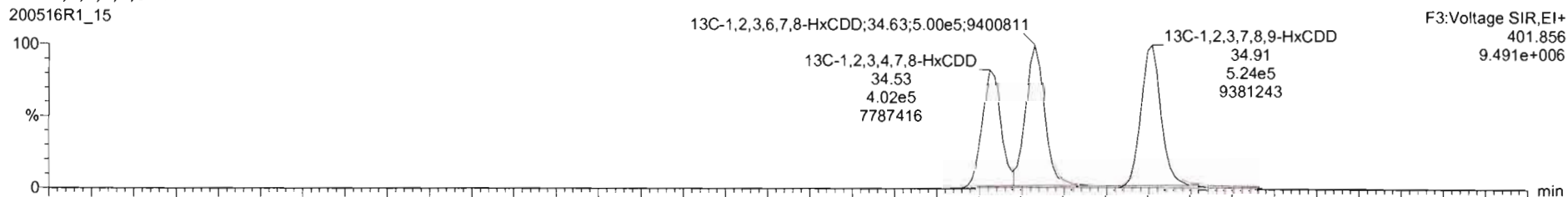
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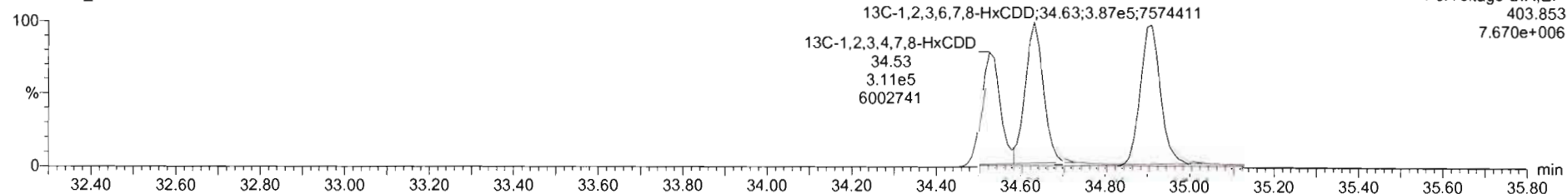
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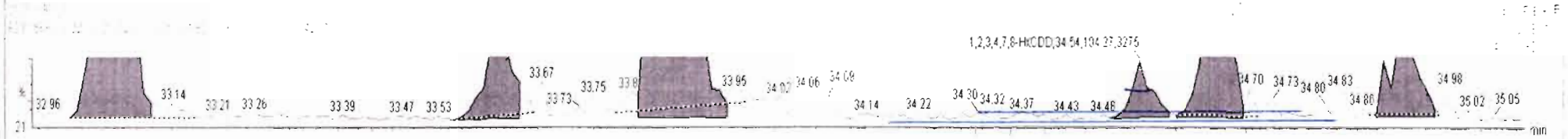
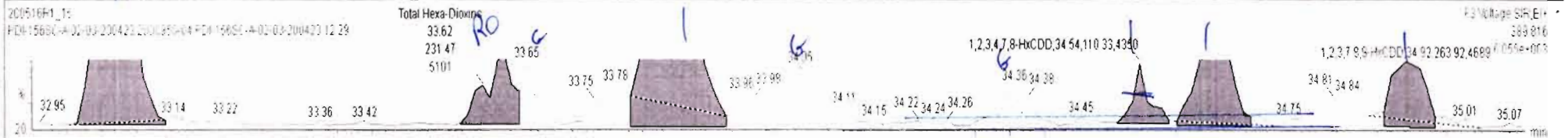


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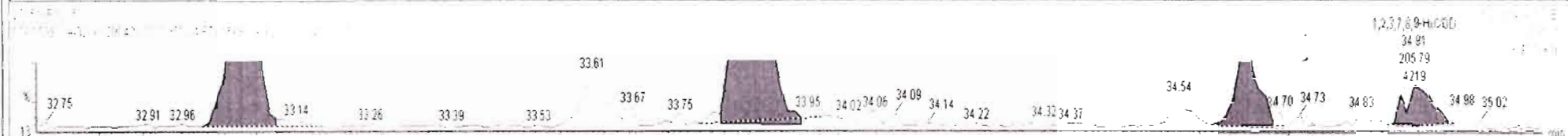
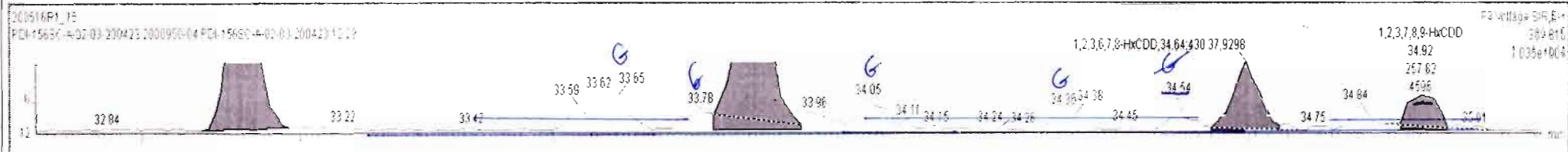
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.046			0.169	0.0706	0.169	
40 Total Penta-Dioxins				0.9425	10.046			0.000	0.0302	0.0925	
41 Total Hexa-Dioxins				0.9145	10.046			1.79	0.0585	1.89	
42 Total Hepta-Dioxins				0.8979	10.046			10.1	0.0955	10.1	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.07	1.501e3	1.089e3	1.38	NO	0.66449	0.66449
2 Total Hexa-Dioxins	33.62	2.315e2	2.318e2	1.00	YES	0.10730	0.00000
3 Total Hexa-Dioxins	33.87	1.647e3	1.259e3	1.31	NO	0.74592	0.74592
4 1,2,3,4,7,8-HxCDD	34.54	1.103e2	1.043e2	1.06	NO	0.056266	0.056266
5 1,2,3,6,7,8-HxCDD	34.84	4.418e2	4.046e2	1.09	NO	0.20770	0.20770
6 1,2,3,7,8-HxCDD	34.92	2.639e2	2.205e2	1.20	NO	0.11164	0.11164



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.046			0.169		0.0708	0.169
40 Total Penta-Dioxins				0.5425	10.046			0.000		0.0302	0.0925
41 Total Hexa-Dioxins				0.9145	10.046			1.71		0.0565	1.71
42 Total Hepta-Dioxins				0.8379	10.046			10.1		0.0855	10.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.07	1.479e3	1.089e3	1.36	NO	0.65893	0.65893
2 Total Hexa-Dioxins	33.87	1.647e3	1.235e3	1.33	NO	0.73968	0.73968
3 1,2,3,6,7,8-HxCDD	34.64	4.304e2	3.854e2	1.12	NO	0.20018	0.20018
4 1,2,3,7,8,9-HxCDD	34.92	2.578e2	2.059e2	1.25	NO	0.10584	0.10684



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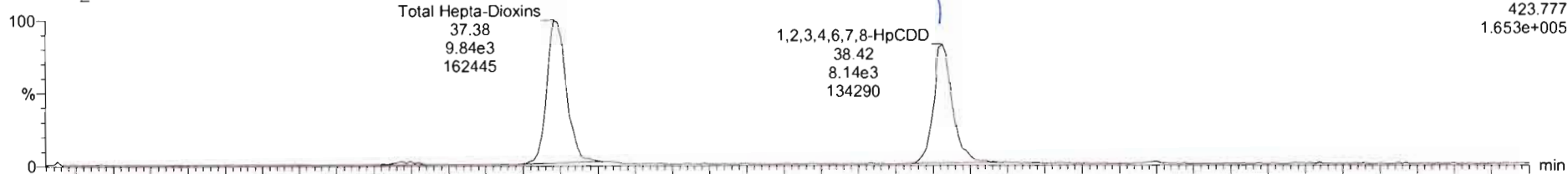
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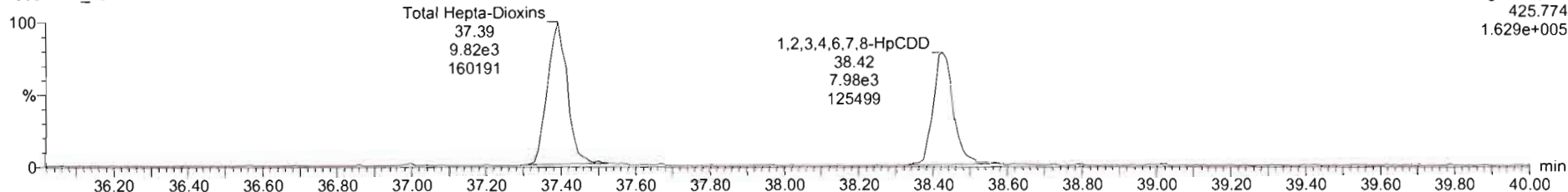
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1,2,3,4,6,7,8-HpCDD

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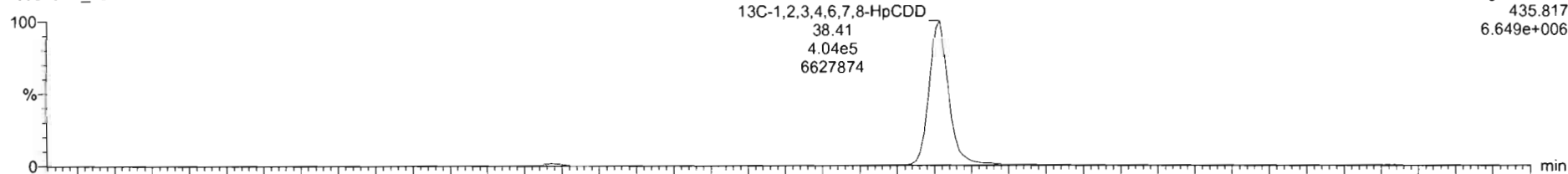


200516R1_15

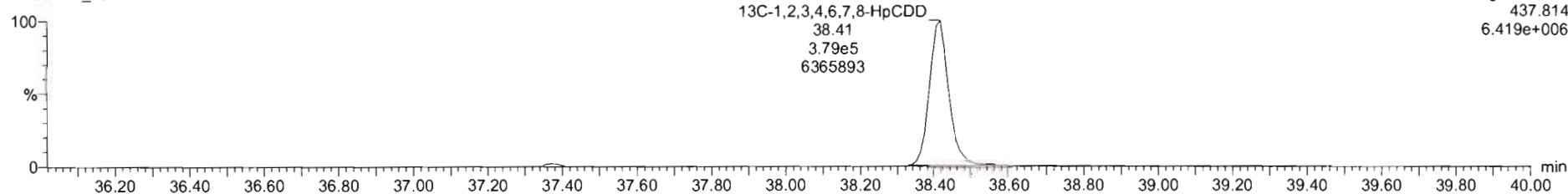


13C-1,2,3,4,6,7,8-HpCDD

200516R1_15



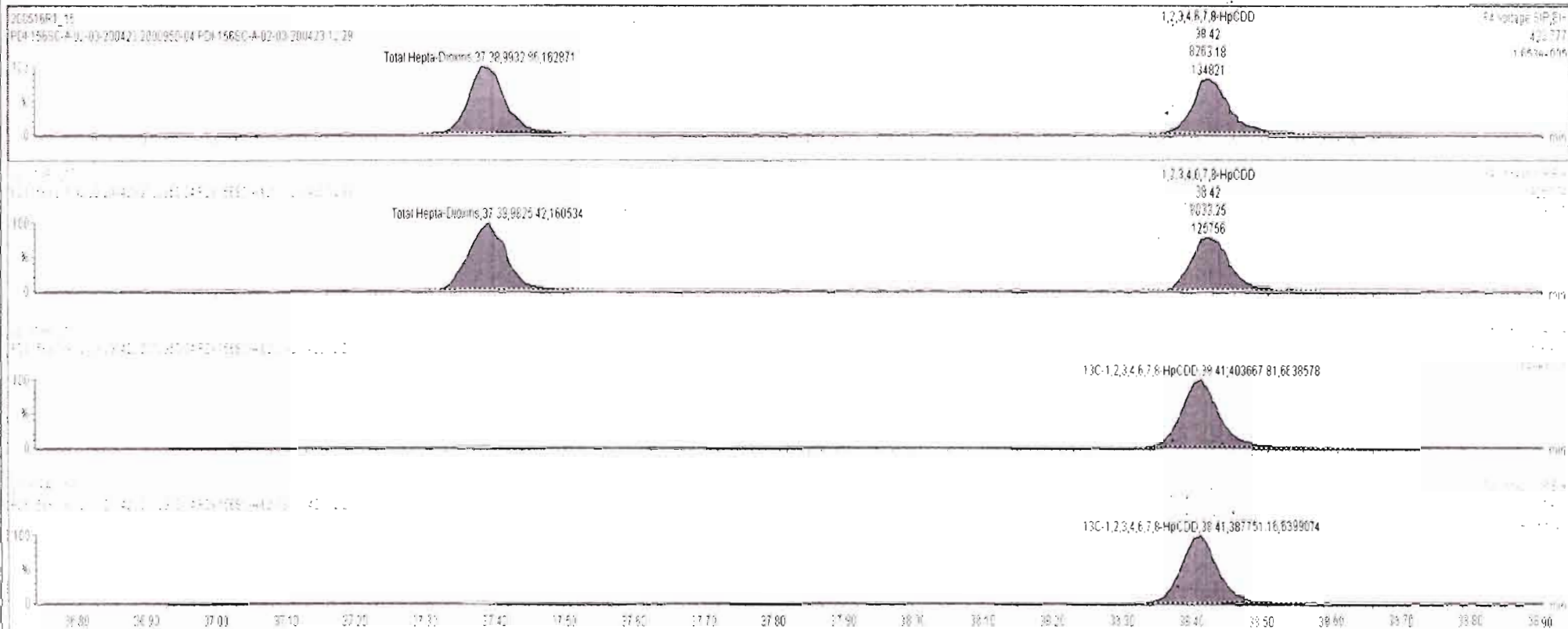
200516R1_15



200516R1_15 - 2000950-04 PDI-156SC-A-02-03-200423 12.29 - PDI-156SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.046			0.169		0.0708	0.169
40 Total Penta-Dioxins				0.9425	10.046			0.000		0.0302	0.0925
41 Total Hexa-Dioxins				0.9145	10.046			1.79		0.0565	1.89
42 Total Hepta-Dioxins				0.8979	10.046			10.1		0.0845	10.1

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hepta-Dioxins	37.38	9.930e3	9.825e3	1.01	NO	5.5353	5.5353
2 1,2,3,4,6,7,8-HpCDD	38.42	8.263e3	8.033e3	1.03	NO	4.5654	4.5654

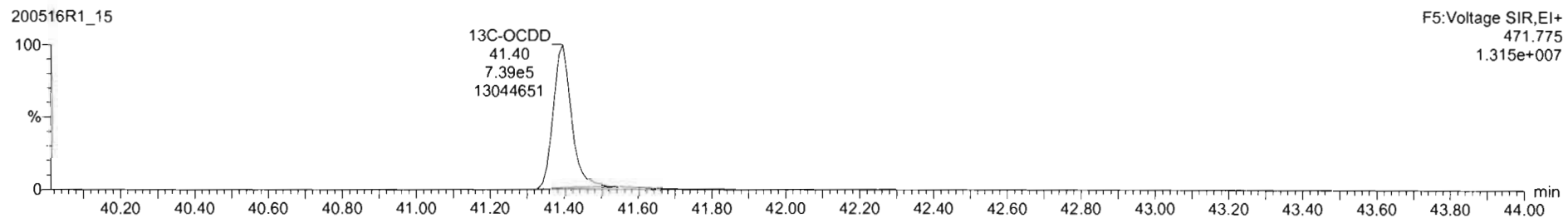
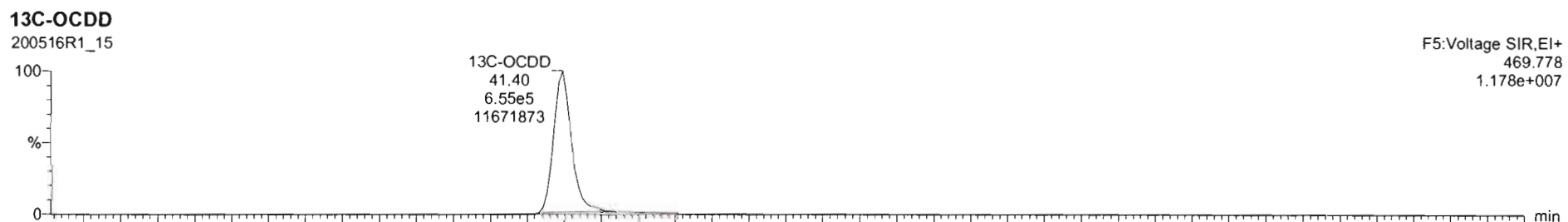
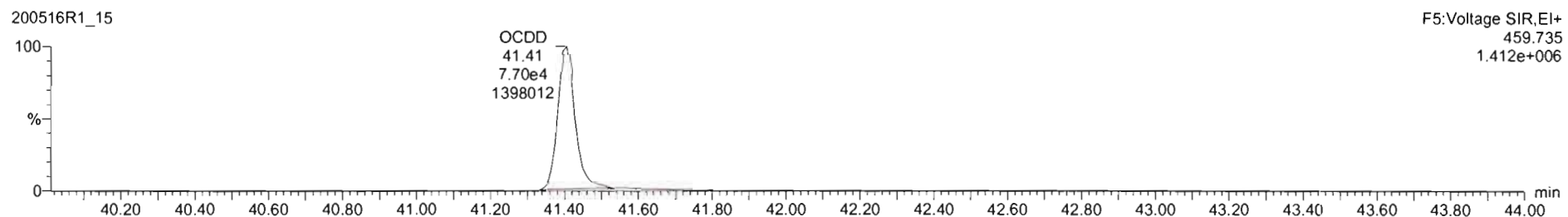
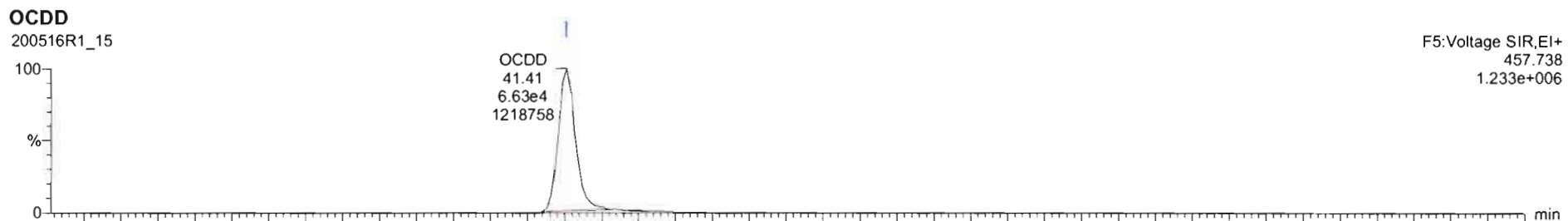


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Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_15, Date: 16-May-2020, Time: 19:58:50, ID: 2000950-04 PDI-156SC-A-02-03-200423 12.29, Description: PDI-156SC-A-02-03-200423



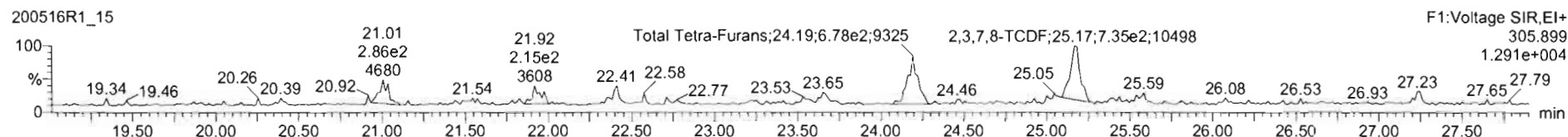
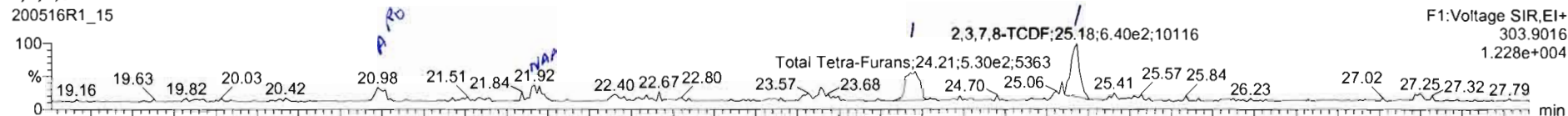
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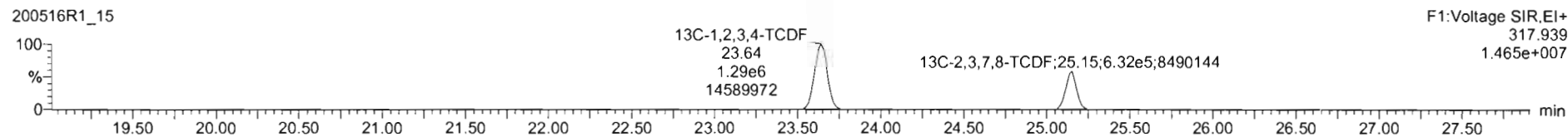
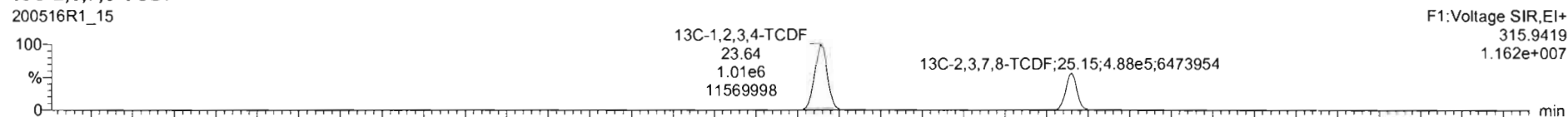
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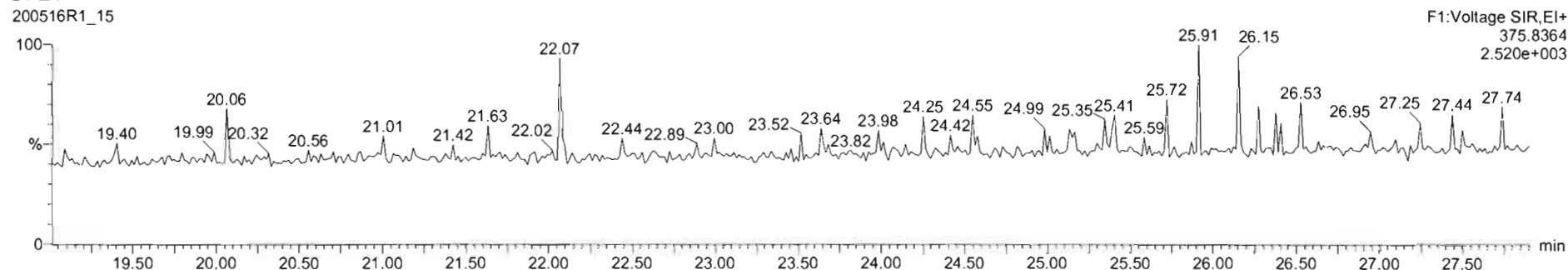
2,3,7,8-TCDF



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



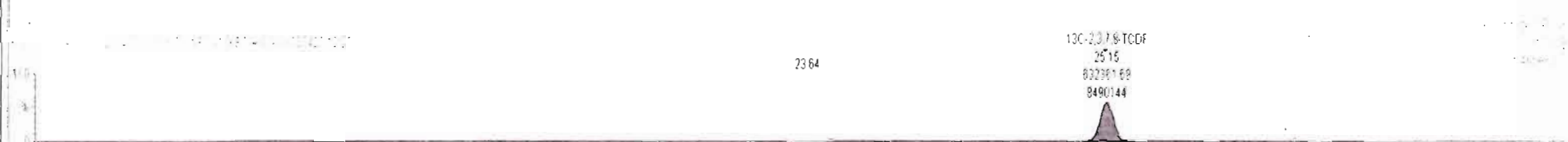
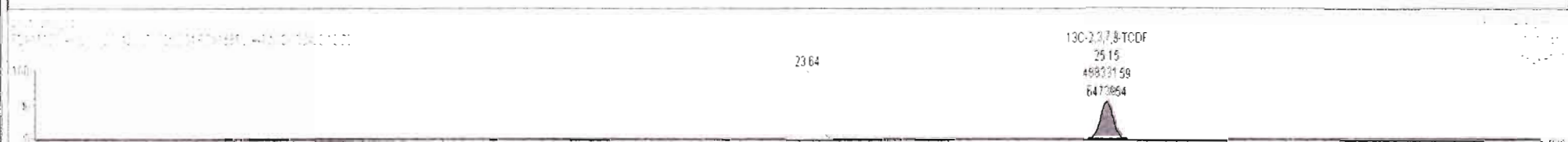
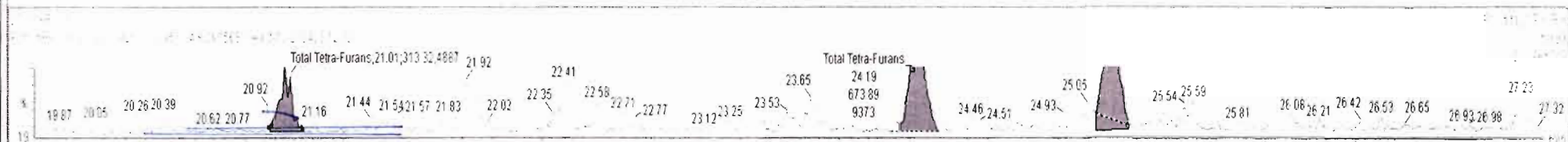
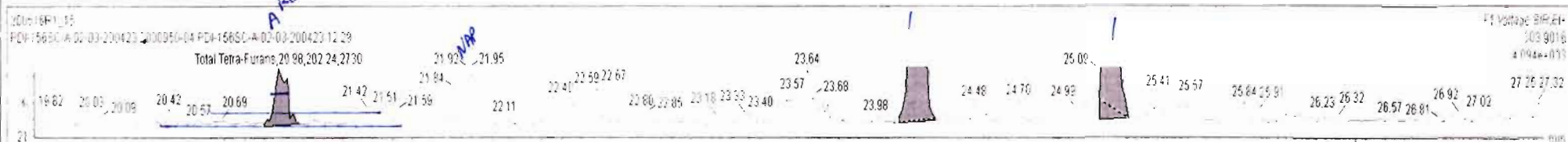
DPE1



200516R1_15 - 2000950-04 PDI-156SC-A-02-03-200423 12.29 - PDI-156SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7671	10.046			0.630		0.0693	0.735
44 1st Func. Penta-Furans				0.9102	10.046			0.303		0.0235	0.303
45 Total Penta-Furans				0.9102	10.046			0.000		0.0225	0.797
46 Total Hexa-Furans				0.9217	10.046			1.19		0.0425	1.79

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Furans	20.98	2.022e2	3.133e2	0.65	YES	0.10492	0.00000
2 Total Tetra-Furans	24.21	5.395e2	6.739e2	0.80	NO	0.27384	0.27384
3 2,3,7,8-TCDF	25.18	7.140e2	8.659e2	0.82	NO	0.35655	0.35655



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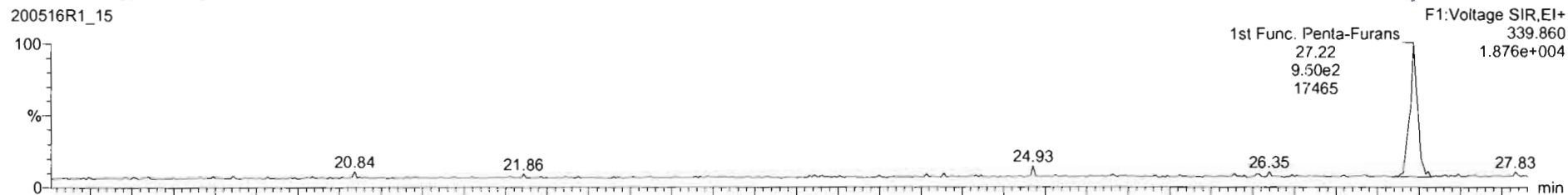
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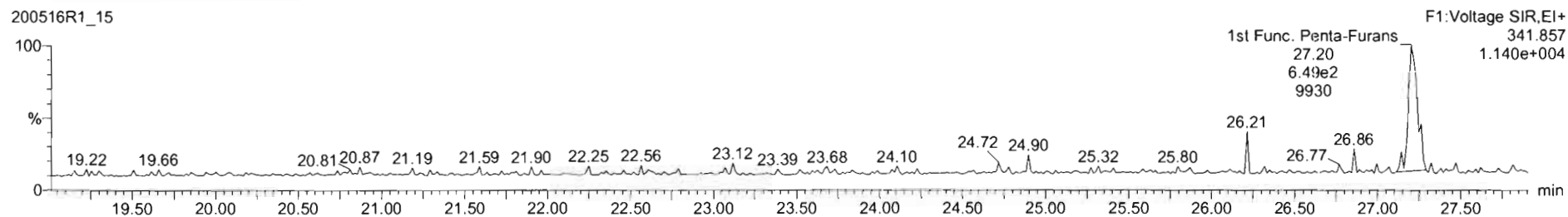
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1st Func. Penta-Furans

200516R1_15

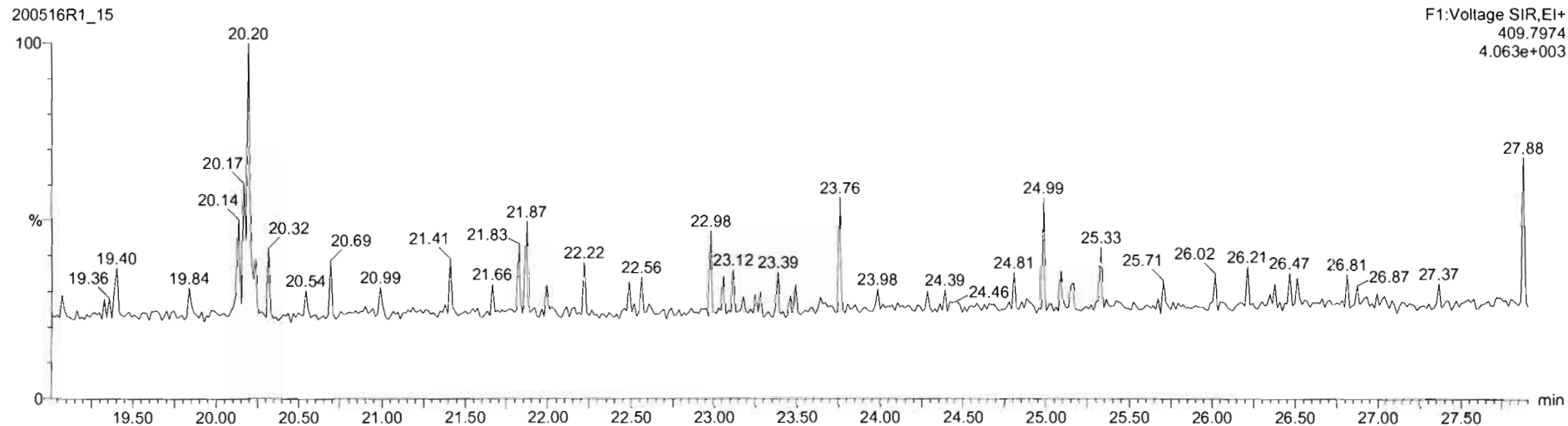


200516R1_15



DPE6

200516R1_15



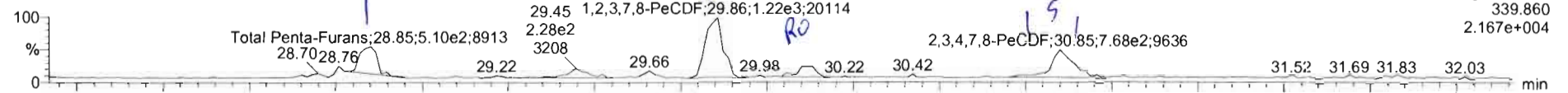
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Name: 200516R1_15, Date: 16-May-2020, Time: 19:58:50, ID: 2000950-04 PDI-156SC-A-02-03-200423 12.29, Description: PDI-156SC-A-02-03-200423

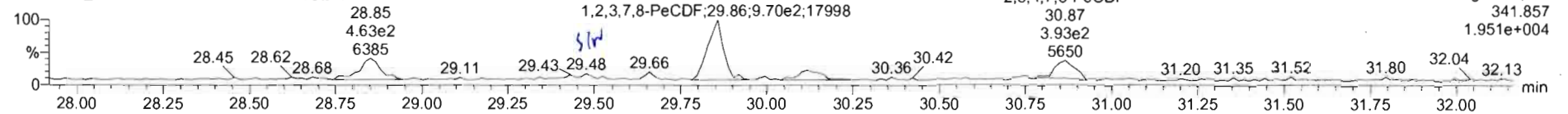
1,2,3,7,8-PeCDF

200516R1_15



F2:Voltage SIR,EI+
339.860
2.167e+004

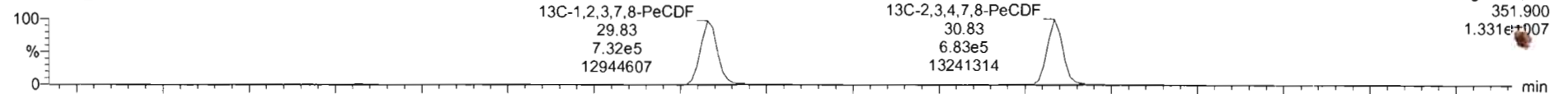
200516R1_15



F2:Voltage SIR,EI+
341.857
1.951e+004

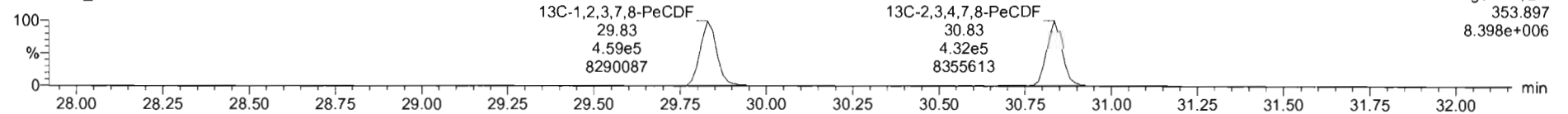
13C-1,2,3,7,8-PeCDF

200516R1_15



F2:Voltage SIR,EI+
351.900
1.331e+007

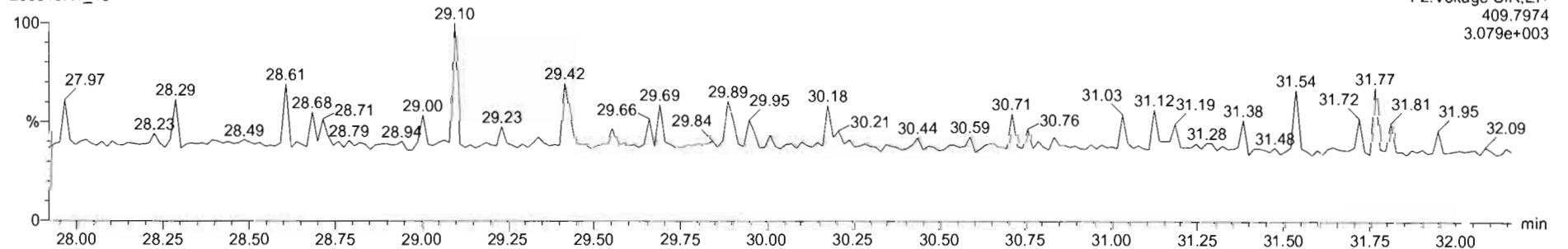
200516R1_15



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353.897
8.398e+006

DPE2

200516R1_15

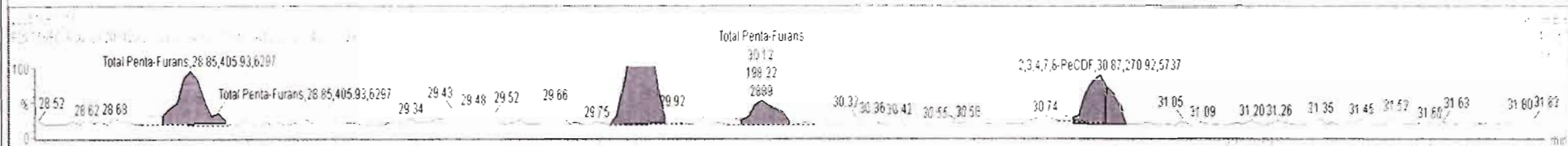
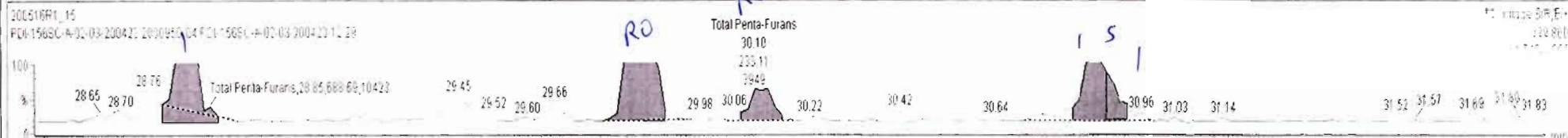


F2:Voltage SIR,EI+
409.7974
3.079e+003

200516R1_15 - 2000950-04 PDI-156SC-A-02-03-200423 12.29 - PDI-156SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RR7	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.046			0.399		0.0435	0.836
46 Total Hexa-Furans				0.9217	10.046			1.19		0.0425	1.79
47 Total Hepta-Furans				0.8712	10.046			3.55		0.0531	3.55
48 PFK1											

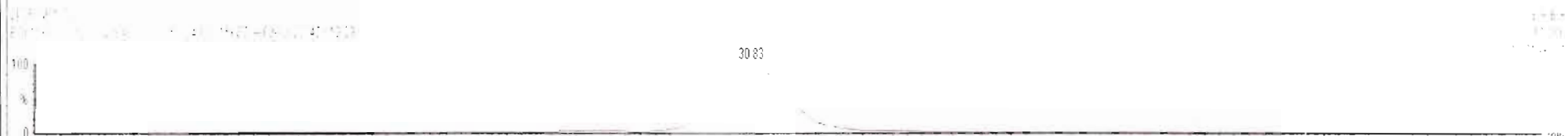
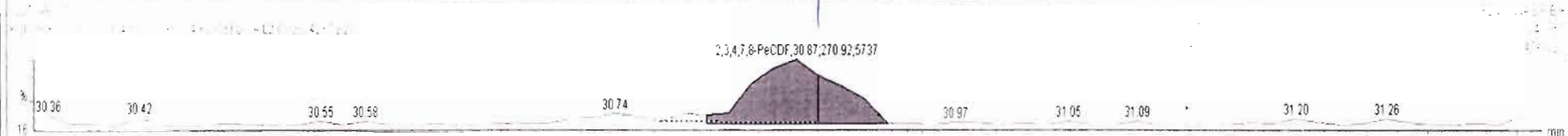
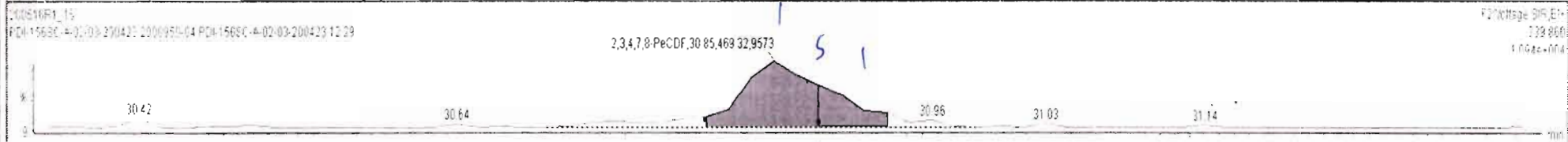
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.85	6.867e2	4.059e2	1.70	NO	0.20764	0.20764
2 1,2,3,7,8-PeCDF	29.89	1.207e3	9.303e2	1.30	YES	0.36463	0.00000
3 Total Penta-Furans	30.10	2.331e2	1.962e2	1.18	YES	0.072747	0.00000
4 2,3,4,7,8-PeCDF	30.85	4.693e2	2.709e2	1.73	NO	0.13681	0.13681
5 Total Penta-Furans	30.88	1.658e2	1.193e2	1.39	NO	0.054078	0.054078



200516R1_15 - 2000950-04 PDI-156SC-A-02-03-200423 12.29 - PDI-156SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.046			0.399	0.0435	0.836	
46 Total Hexa-Furanc				0.9217	10.046			1.19	0.0425	1.79	
47 Total Hepta-Furans				0.8712	10.046			3.55	0.0531	3.55	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	28.85	6.887e2	4.059e2	1.70	NO	0.20764	0.20764
2 1,2,3,7,8-PeCDF	29.86	1.207e3	9.303e2	1.30	YES	0.36463	0.00000
3 Total Penta-Furans	30.10	2.331e2	1.982e2	1.18	YES	0.672747	0.00000
4 2,3,4,7,8-PeCDF	30.65	4.693e2	2.709e2	1.73	NO	0.13681	0.13681
5 Total Penta-Furans	30.89	1.658e2	1.193e2	1.39	NO	0.054078	0.054078



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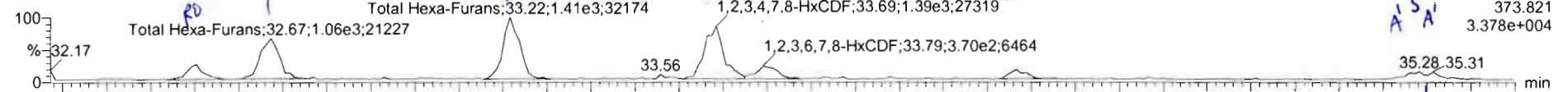
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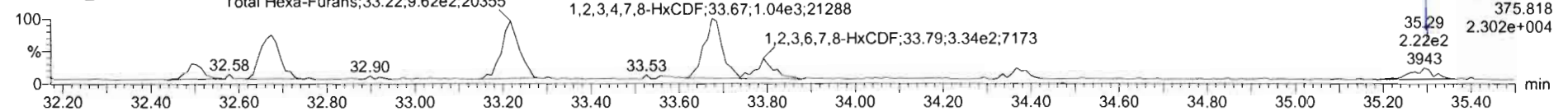
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1,2,3,4,7,8-HxCDF

200516R1_15

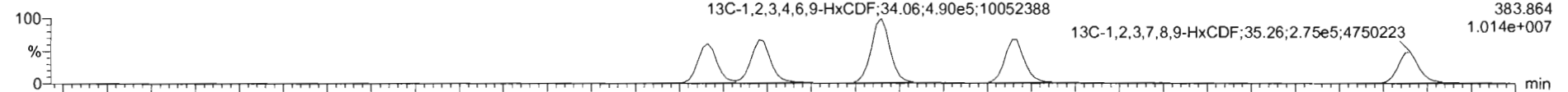


200516R1_15

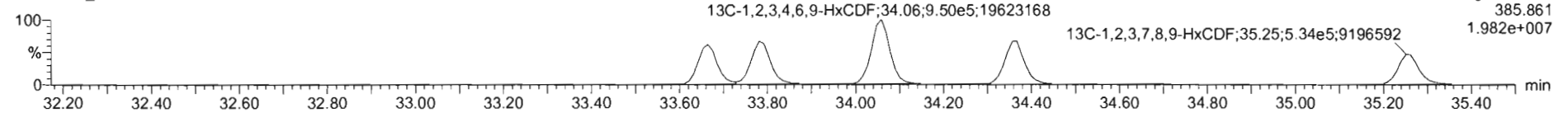


13C-1,2,3,4,7,8-HxCDF

200516R1_15

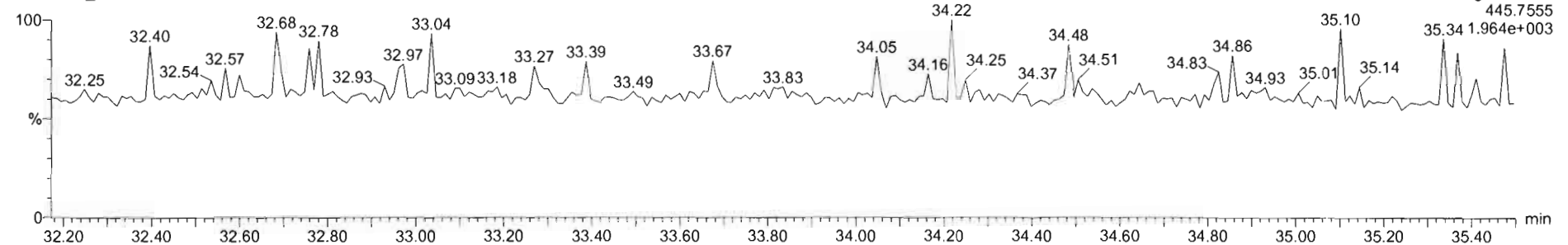


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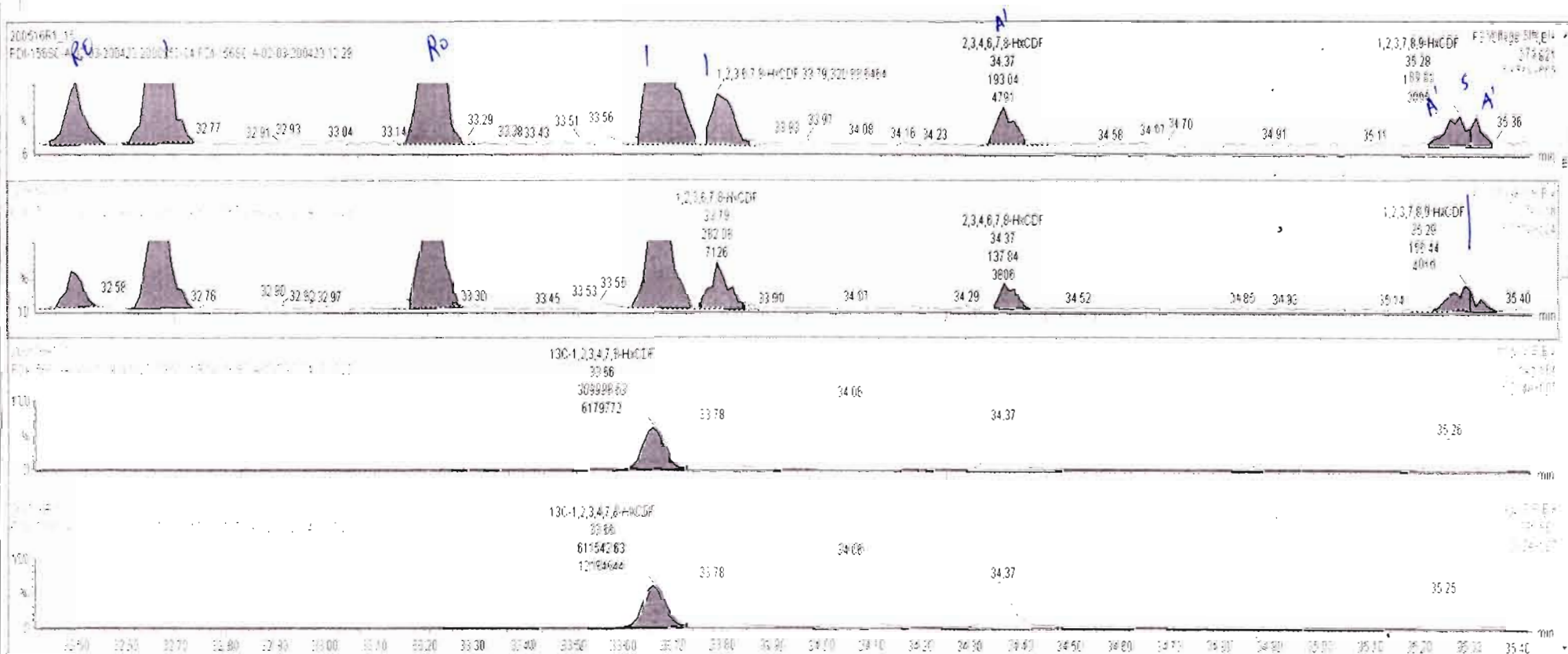
DPE3

200516R1_15



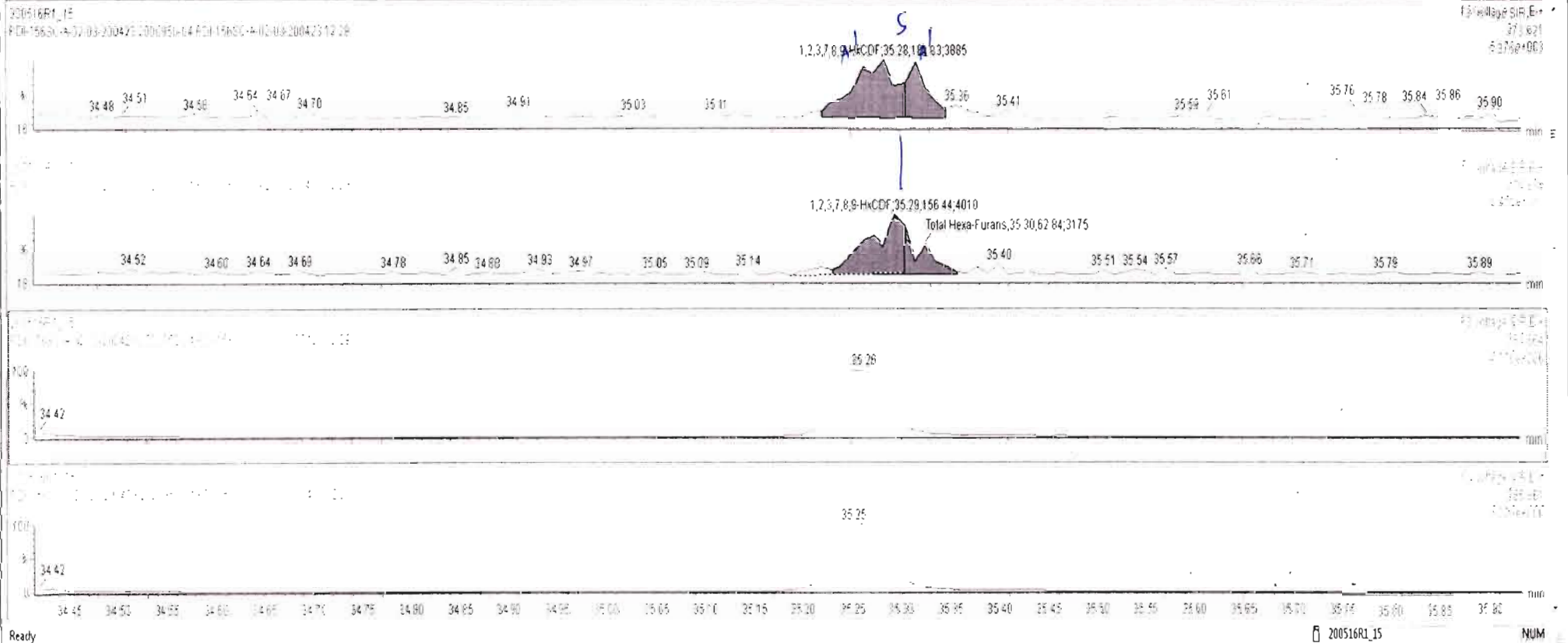
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.046			0.399		0.0435	0.836
46 Total Hexa-Furans				0.9217	10.046			1.33		0.0425	1.96
47 Total Hepta-Furans				0.8712	10.046			3.55		0.0531	3.55
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.50	3.361e2	2.202e2	1.54	YES	0.11271	0.00900
2 Total Hexa-Furans	32.67	1.075e3	8.167e2	1.32	NO	0.43234	0.43234
3 Total Hexa-Furans	33.22	1.397e3	9.497e2	1.47	YES	0.48610	0.00000
4 1,2,3,4,7,8-HxCDF	33.69	1.377e3	1.045e3	1.32	NO	0.58572	0.58572
5 1,2,3,6,7,8-HxCDF	33.79	3.209e2	2.820e2	1.14	NO	0.13423	0.13423
6 2,3,4,6,7,8-HxCDF	34.37	1.930e2	1.378e2	1.40	NO	0.069551	0.069551
7 1,2,3,7,8,9-HxCDF	35.26	1.880e2	1.564e2	1.21	NO	0.098642	0.098642
8 Total Hexa-Furans	35.31	8.803e1	6.294e1	1.40	NO	0.034474	0.00000



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	Dt	EMFC
45 Total Penta-Furans				0.9102	10.046			0.399	0.0435		0.836
46 Total Hexa-Furans				0.9217	10.046			1.28	0.0425		1.93
47 Total Hepta-Furans				0.8712	10.046			3.55	0.0531		3.55
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMFC	Conc
1 Total Hexa-Furans	32.50	3.400e2	2.280e2	1.49	YES	0.11671	0.00000
2 Total Hexa-Furans	32.67	1.063e3	8.167e2	1.30	NO	0.42958	0.42958
3 Total Hexa-Furans	33.22	1.409e3	9.619e2	1.46	YES	0.49234	0.00000
4 1,2,3,4,7,8-HxCDF	33.69	1.394e3	1.040e3	1.34	NO	0.59882	0.59882
5 1,2,3,6,7,8-HxCDF	33.79	3.702e2	3.342e2	1.11	NO	0.15581	0.15681
6 1,2,3,7,8,9-HxCDF	35.26	1.898e2	1.564e2	1.21	NO	0.096342	0.096642
7 Total Hexa-Furans	35.31	8.800e1	6.264e1	1.40	NO	0.034474	0.00000



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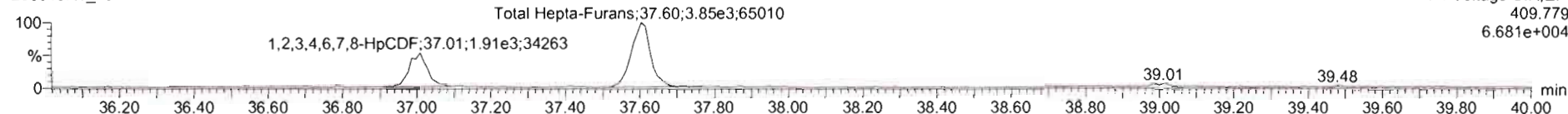
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1,2,3,4,6,7,8-HpCDF

200516R1_15

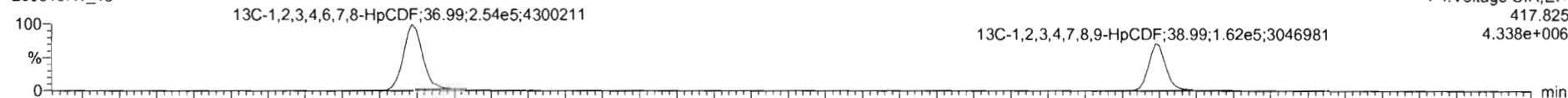


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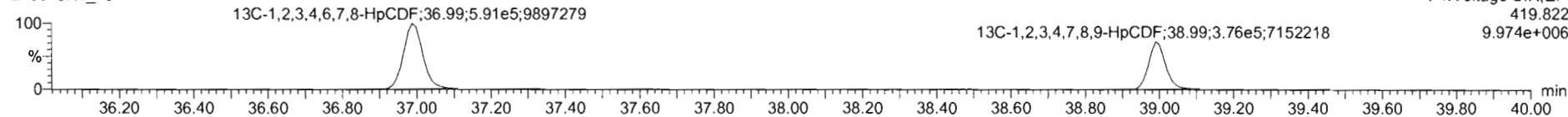


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200516R1_15

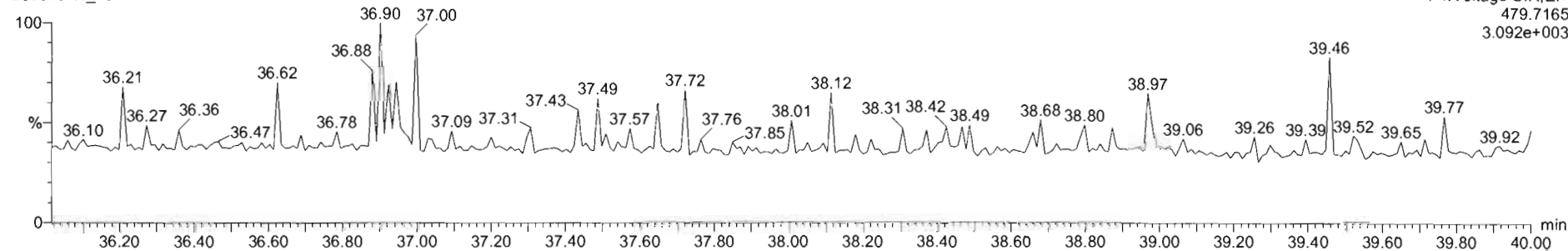


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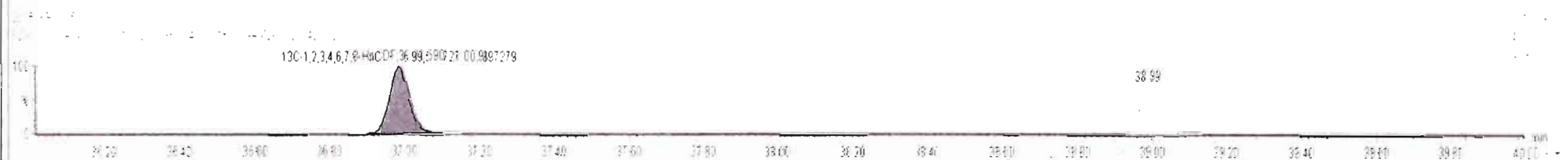
DPE4

200516R1_15



#	Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9102	10.046			0.399		0.0435	0.838
46	Total Hexa-Furans				0.9217	10.046			1.33		0.0425	1.95
47	Total Hepta-Furans				0.8712	10.046			3.73		0.0531	3.73
48	PFK1											

#	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	1,2,3,4,6,7,8-HpCDF	37.00	1.845e3	1.953e3	0.94	NO	1.0257	1.0267
2	Total Hepta-Furans	37.60	3.884e3	3.901e3	1.00	NO	2.5709	2.5709
3	1,2,3,4,7,8,9-HpCDF	39.01	1.963e2	1.843e2	1.19	NO	0.13179	0.13179

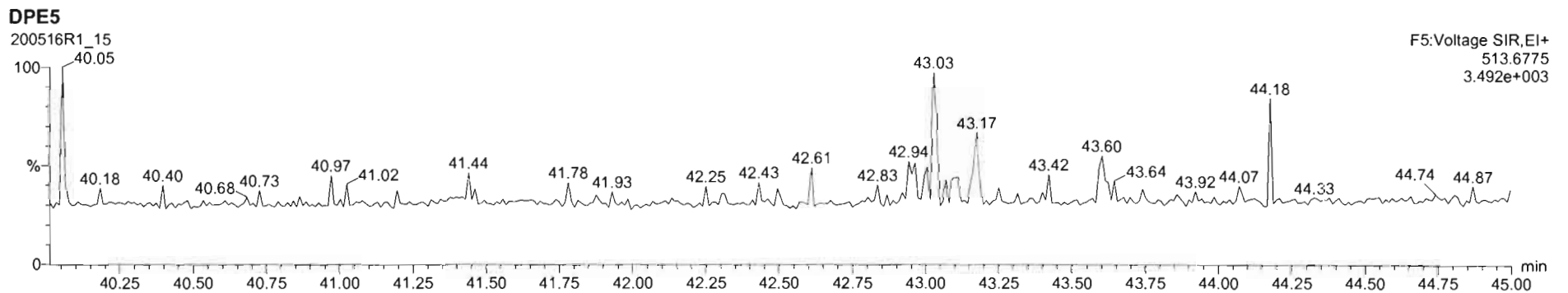
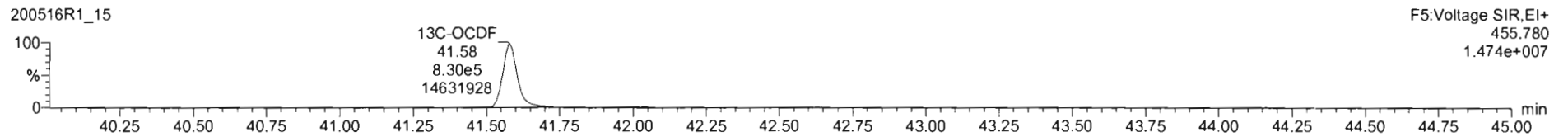
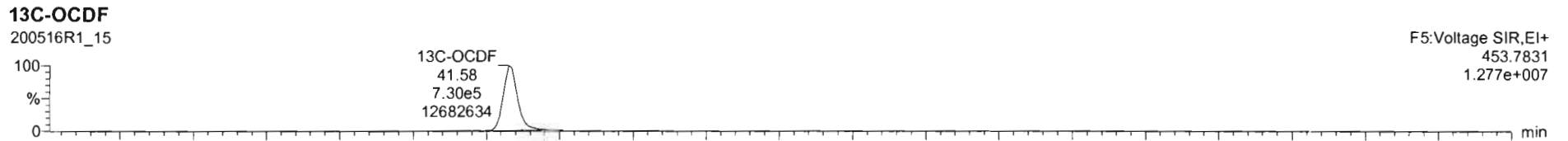
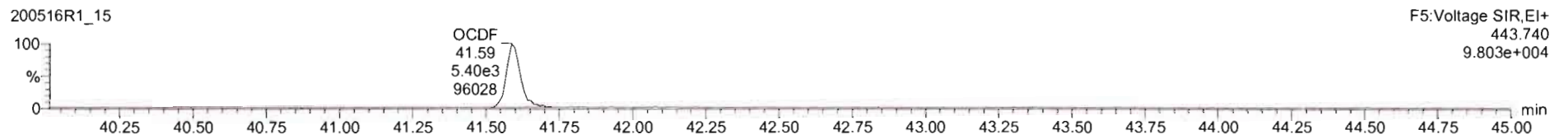


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Name: 200516R1_15, Date: 16-May-2020, Time: 19:58:50, ID: 2000950-04 PDI-156SC-A-02-03-200423 12.29, Description: PDI-156SC-A-02-03-200423



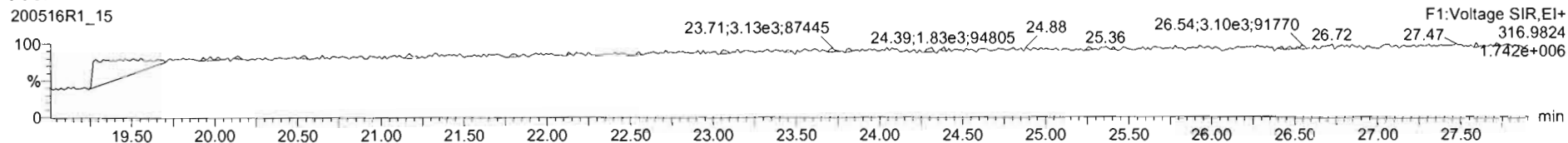
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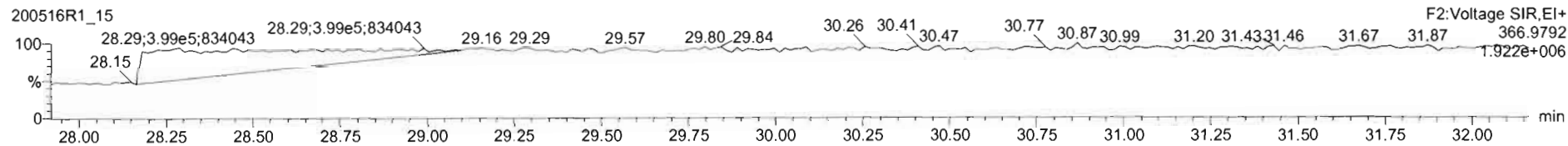
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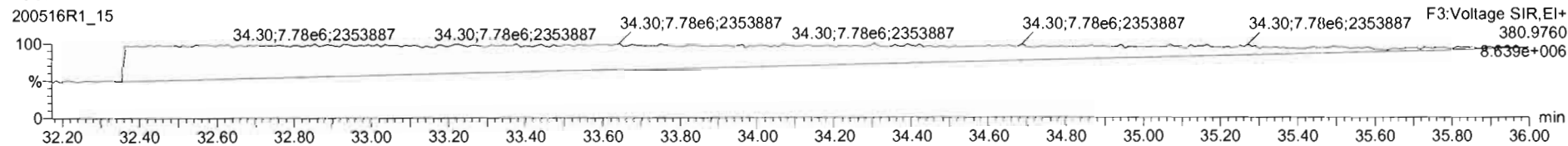
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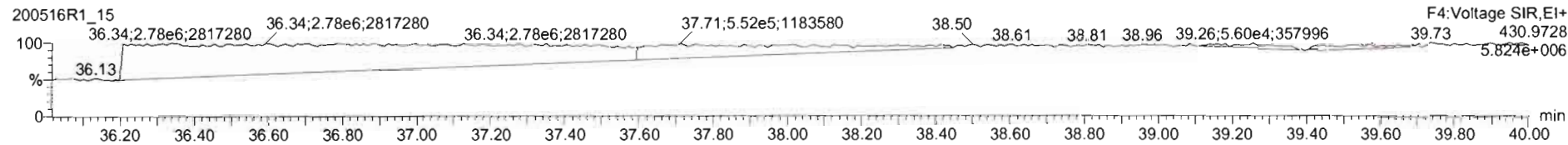
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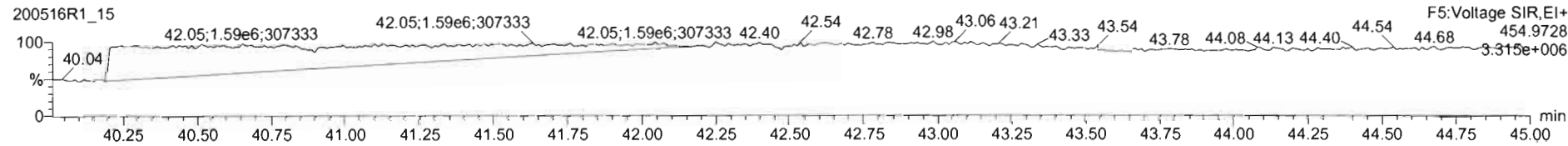
PFK3



PFK4



PFK5



Dataset: U:\VG12.PRO\Results\200516R1\200516R1-16.qld

Last Altered: Tuesday, May 19, 2020 10:01:03 AM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 10:14:03 AM Pacific Daylight Time

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Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423

#	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	0.947	10.006	26.081		1.001				0.0593	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.006	31.177		1.001				0.0687	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.006	34.537		1.000				0.0677	
4	4 1,2,3,6,7,8-HxCDD	1.43e3	1.15	NO	0.915	10.006	34.633	34.65	1.000	1.001	0.34495		0.0733	0.345
5	5 1,2,3,7,8,9-HxCDD	6.08e2	1.43	YES	0.915	10.006	34.909	34.92	1.000	1.001	0.15576		0.0805	0.142
6	6 1,2,3,4,6,7,8-HpCDD	2.51e4	1.06	NO	0.898	10.006	38.415	38.41	1.000	1.000	8.7382		0.122	8.74
7	7 OCDD	1.92e5	0.89	NO	0.933	10.006	41.375	41.38	1.000	1.000	76.669		0.151	76.7
8	8 2,3,7,8-TCDF	1.16e3	0.78	NO	0.787	10.006	25.147	25.14	1.001	1.001	0.20355		0.0477	0.204
9	9 1,2,3,7,8-PeCDF	9.74e2	1.55	NO	0.910	10.006	29.864	29.87	1.001	1.001	0.14342		0.0387	0.143
10	10 2,3,4,7,8-PeCDF	8.14e2	1.67	NO	0.966	10.006	30.866	30.87	1.001	1.001	0.11844		0.0352	0.118
11	11 1,2,3,4,7,8-HxCDF	1.65e3	1.30	NO	0.878	10.006	33.664	33.67	1.000	1.000	0.37025		0.0408	0.370
12	12 1,2,3,6,7,8-HxCDF	5.41e2	1.27	NO	0.874	10.006	33.791	33.80	1.000	1.001	0.11010		0.0385	0.110
13	13 2,3,4,6,7,8-HxCDF	5.18e2	1.14	NO	0.922	10.006	34.390	34.37	1.001	1.000	0.11024		0.0401	0.110
14	14 1,2,3,7,8,9-HxCDF	3.66e2	1.22	NO	0.864	10.006	35.251	35.25	1.000	1.000	0.096854		0.0576	0.0969
15	15 1,2,3,4,6,7,8-HpCDF	5.75e3	0.95	NO	0.871	10.006	37.024	37.00	1.001	1.000	1.7355		0.0540	1.74
16	16 1,2,3,4,7,8,9-HpCDF	3.59e2	0.83	YES	1.01	10.006	38.989	39.00	1.000	1.000	0.13014		0.0609	0.124
17	17 OCDF	6.93e3	0.89	NO	0.802	10.006	41.556	41.58	1.000	1.001	2.7664		0.0454	2.77
18	18 13C-2,3,7,8-TCDD	1.19e6	0.80	NO	1.16	10.006	26.046	26.05	1.026	1.027	177.12	88.6	0.185	
19	19 13C-1,2,3,7,8-PeCDD	1.06e6	0.63	NO	0.847	10.006	31.141	31.16	1.227	1.228	214.92	108	0.246	
20	20 13C-1,2,3,4,7,8-HxCDD	7.60e5	1.27	NO	0.750	10.006	34.527	34.53	1.014	1.014	198.06	99.1	0.276	
21	21 13C-1,2,3,6,7,8-HxCDD	9.04e5	1.27	NO	0.963	10.006	34.639	34.63	1.017	1.017	183.49	91.8	0.215	
22	22 13C-1,2,3,7,8,9-HxCDD	8.64e5	1.26	NO	0.838	10.006	34.908	34.90	1.025	1.025	201.63	101	0.247	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.39e5	1.06	NO	0.641	10.006	38.402	38.40	1.128	1.128	194.79	97.5	0.302	
24	24 13C-OCDD	1.07e6	0.90	NO	0.586	10.006	41.398	41.38	1.216	1.215	358.04	89.6	0.401	
25	25 13C-2,3,7,8-TCDF	1.45e6	0.78	NO	1.03	10.006	25.104	25.12	0.989	0.990	167.44	83.8	0.303	
26	26 13C-1,2,3,7,8-PeCDF	1.49e6	1.58	NO	0.845	10.006	29.829	29.84	1.176	1.176	210.59	105	0.399	
27	27 13C-2,3,4,7,8-PeCDF	1.42e6	1.59	NO	0.814	10.006	30.822	30.83	1.215	1.215	208.37	104	0.414	
28	28 13C-1,2,3,4,7,8-HxCDF	1.01e6	0.51	NO	1.00	10.006	33.666	33.66	0.989	0.989	197.09	98.6	0.347	
29	29 13C-1,2,3,6,7,8-HxCDF	1.12e6	0.50	NO	1.14	10.006	33.788	33.78	0.992	0.992	193.31	96.7	0.307	
30	30 13C-2,3,4,6,7,8-HxCDF	1.02e6	0.51	NO	1.02	10.006	34.357	34.36	1.009	1.009	194.87	97.5	0.341	
31	31 13C-1,2,3,7,8,9-HxCDF	8.74e5	0.53	NO	0.845	10.006	35.249	35.25	1.035	1.035	202.21	101	0.413	

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-16.qld

Last Altered: Tuesday, May 19, 2020 10:01:03 AM Pacific Daylight Time
Printed: Tuesday, May 19, 2020 10:14:03 AM Pacific Daylight Time

Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423

	# 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	7.60e5	0.43	NO	0.771	10.006	36.982	36.99	1.086	1.086	192.57	96.3	0.405	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.10e5	0.44	NO	0.482	10.006	38.994	38.99	1.145	1.145	206.67	103	0.647	
34	34 13C-OCDF	1.25e6	0.91	NO	0.669	10.006	41.568	41.56	1.221	1.221	365.08	91.3	0.356	
35	35 37Cl-2,3,7,8-TCDD	4.56e5			1.10	10.006	26.076	26.08	1.028	1.028	71.421	89.3	0.0518	
36	36 13C-1,2,3,4-TCDD	1.16e6	0.79	NO	1.00	10.006	25.350	25.38	1.000	1.000	199.88	100	0.215	
37	37 13C-1,2,3,4-TCDF	1.68e6	0.79	NO	1.00	10.006	23.560	23.59	1.000	1.000	199.88	100	0.314	
38	38 13C-1,2,3,4,6,9-HxCDF	1.02e6	0.51	NO	1.00	10.006	34.000	34.05	1.000	1.000	199.88	100	0.349	
39	39 Total Tetra-Dioxins				0.947	10.006	24.620		0.000		0.085613		0.0593	0.254
40	40 Total Penta-Dioxins				0.942	10.006	29.960		0.000		0.00000		0.0446	0.231
41	41 Total Hexa-Dioxins				0.915	10.006	33.635		0.000		2.5777		0.0774	2.79
42	42 Total Hepta-Dioxins				0.898	10.006	37.640		0.000		17.916		0.122	17.9
43	43 Total Tetra-Furans				0.787	10.006	23.610		0.000		0.63981		0.0477	0.743
44	44 1st Func. Penta-Furans				0.910	10.006	27.090		0.000		0.64072		0.0146	0.641
45	45 Total Penta-Furans				0.910	10.006	29.275		0.000		0.56747		0.0380	0.609
46	46 Total Hexa-Furans				0.922	10.006	33.555		0.000		4.2430		0.0418	4.30
47	47 Total Hepta-Furans				0.871	10.006	37.835		0.000		6.4983		0.0607	6.62

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-16.qld

Last Altered: Tuesday, May 19, 2020 10:01:03 AM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 10:14:03 AM Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.89	3.284e3	4.771e3	2.497e2	2.505e2	1.00	YES	0.000e0	0.00000	0.078325	0.0593
2	Total Tetra-Dioxins	23.79	4.057e3	3.900e3	2.229e2	2.617e2	0.85	NO	4.846e2	0.085613	0.085613	0.0593
3	Total Tetra-Dioxins	25.80	3.930e3	5.772e3	2.694e2	2.884e2	0.93	YES	0.000e0	0.00000	0.090186	0.0593

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.90	7.313e3	7.778e3	4.034e2	5.169e2	0.78	YES	0.000e0	0.00000	0.16877	0.0687
2	Total Penta-Dioxins	29.39	2.573e3	4.194e3	1.204e2	2.678e2	0.45	YES	0.000e0	0.00000	0.062419	0.0687

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.06	5.488e4	4.701e4	2.552e3	2.206e3	1.16	NO	4.758e3	1.2336	1.2336	0.0774
2	Total Hexa-Dioxins	33.60	5.346e3	4.070e3	1.413e2	1.504e2	0.94	YES	0.000e0	0.00000	0.066161	0.0774
3	Total Hexa-Dioxins	33.87	3.850e4	2.528e4	2.199e3	1.655e3	1.33	NO	3.854e3	0.99921	0.99921	0.0774
4	1,2,3,6,7,8-HxCDD	34.65	1.296e4	1.294e4	7.641e2	6.633e2	1.15	NO	1.427e3	0.34495	0.34495	0.0733
5	1,2,3,7,8,9-HxCDD	34.92	7.554e3	6.304e3	3.581e2	2.503e2	1.43	YES	6.083e2	0.00000	0.14169	0.0805

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	2.208e5	2.087e5	1.326e4	1.311e4	1.01	NO	2.637e4	9.1783	9.1783	0.122
2	1,2,3,4,6,7,8-HpCDD	38.41	2.157e5	2.020e5	1.292e4	1.218e4	1.06	NO	2.510e4	8.7382	8.7382	0.122

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-16.qld

Last Altered: Tuesday, May 19, 2020 10:01:03 AM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 10:14:03 AM Pacific Daylight Time

Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.90	2.957e3	5.912e3	2.600e2	3.849e2	0.68	NO	6.449e2	0.11278	0.11278	0.0477
2	Total Tetra-Furans	21.45	2.337e3	2.928e3	1.323e2	1.990e2	0.66	NO	0.000e0	0.00000	0.057947	0.0477
3	Total Tetra-Furans	21.86	2.323e3	3.536e3	2.025e2	2.872e2	0.71	NO	4.898e2	0.085655	0.085655	0.0477
4	Total Tetra-Furans	22.35	2.170e3	3.356e3	1.909e2	2.160e2	0.88	NO	4.069e2	0.071151	0.071151	0.0477
5	Total Tetra-Furans	24.13	5.741e3	7.729e3	4.269e2	5.262e2	0.81	NO	9.531e2	0.16668	0.16668	0.0477
6	2,3,7,8-TCDF	25.14	7.012e3	8.410e3	5.088e2	6.552e2	0.78	NO	1.164e3	0.20355	0.20355	0.0477
7	Total Tetra-Furans	27.20	3.971e3	2.348e3	1.912e2	1.465e2	1.31	YES	0.000e0	0.00000	0.045335	0.0477

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.20	4.357e4	2.388e4	2.597e3	1.654e3	1.57	NO	4.251e3	0.64072	0.64072	0.0146

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.85	1.315e4	1.164e4	7.312e2	5.465e2	1.34	NO	1.278e3	0.19258	0.19258	0.0380
2	Total Penta-Furans	29.43	4.978e3	4.916e3	1.694e2	1.529e2	1.11	YES	0.000e0	0.00000	0.042009	0.0380
3	1,2,3,7,8-PeCDF	29.87	1.048e4	1.294e4	5.921e2	3.822e2	1.55	NO	9.744e2	0.14342	0.14342	0.0387
4	Total Penta-Furans	30.12	4.214e3	3.036e3	1.958e2	1.361e2	1.44	NO	3.319e2	0.050025	0.050025	0.0380
5	2,3,4,7,8-PeCDF	30.87	1.022e4	6.146e3	5.099e2	3.044e2	1.67	NO	8.143e2	0.11844	0.11844	0.0352
6	Total Penta-Furans	30.88	7.559e3	4.863e3	2.522e2	1.659e2	1.52	NO	4.180e2	0.063006	0.063006	0.0380

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-16.qld

Last Altered: Tuesday, May 19, 2020 10:01:03 AM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 10:14:03 AM Pacific Daylight Time

Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.50	1.757e4	1.534e4	7.936e2	6.747e2	1.18	NO	1.468e3	0.31586	0.31586	0.0418
2	Total Hexa-Furans	32.66	4.931e4	4.054e4	2.410e3	2.073e3	1.16	NO	4.483e3	0.96442	0.96442	0.0418
3	Total Hexa-Furans	33.22	1.277e5	9.951e4	5.789e3	4.788e3	1.21	NO	1.058e4	2.2752	2.2752	0.0418
4	1,2,3,4,7,8-HxCDF	33.67	2.075e4	1.665e4	9.315e2	7.175e2	1.30	NO	1.649e3	0.37025	0.37025	0.0408
5	1,2,3,6,7,8-HxCDF	33.80	6.773e3	4.923e3	3.030e2	2.385e2	1.27	NO	5.414e2	0.11010	0.11010	0.0385
6	2,3,4,6,7,8-HxCDF	34.37	6.015e3	4.710e3	2.761e2	2.422e2	1.14	NO	5.183e2	0.11024	0.11024	0.0401
7	1,2,3,7,8,9-HxCDF	35.25	6.242e3	3.501e3	2.013e2	1.648e2	1.22	NO	3.661e2	0.096854	0.096854	0.0576
8	Total Hexa-Furans	35.29	5.764e3	3.481e3	2.476e2	1.127e2	2.20	YES	0.000e0	0.00000	0.054327	0.0418

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.00	4.506e4	4.581e4	2.801e3	2.949e3	0.95	NO	5.750e3	1.7355	1.7355	0.0540
2	Total Hepta-Furans	37.59	1.037e5	1.042e5	6.600e3	6.584e3	1.00	NO	1.318e4	4.7628	4.7628	0.0607
3	1,2,3,4,7,8,9-HpCDF	39.00	3.391e3	3.896e3	1.631e2	1.961e2	0.83	YES	3.592e2	0.00000	0.12390	0.0609

Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time

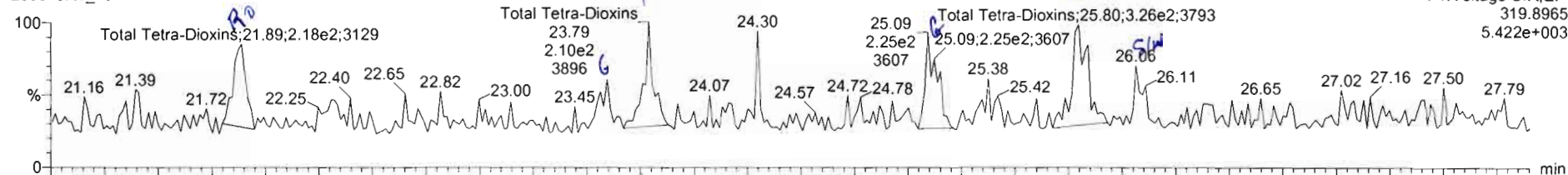
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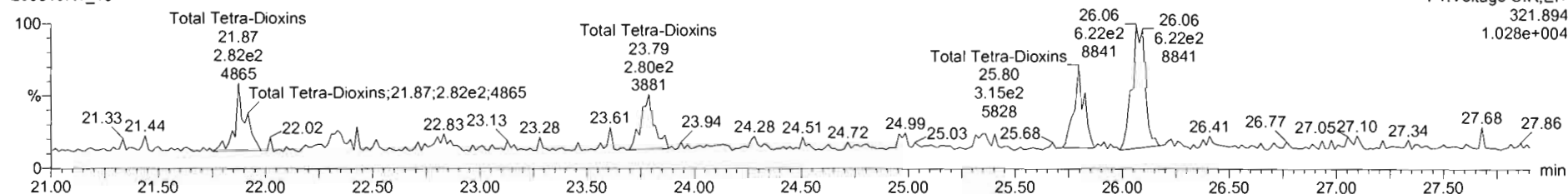
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2,3,7,8-TCDD

200516R1_16

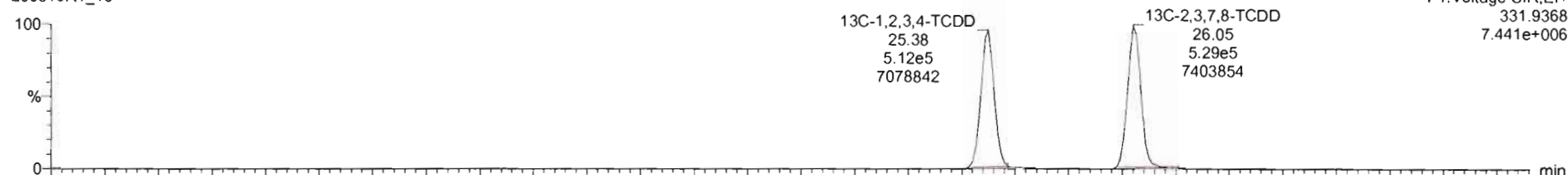


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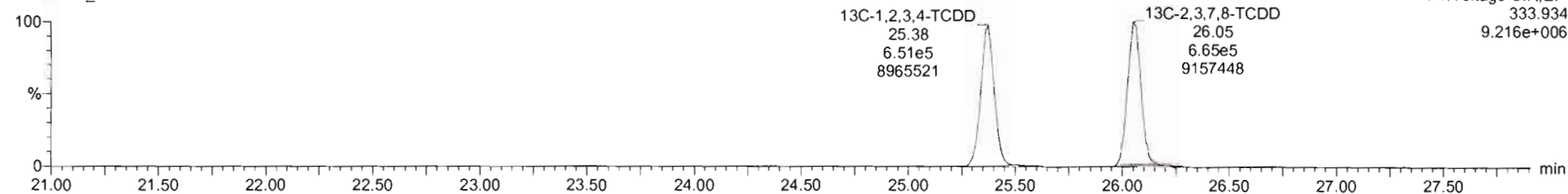


13C-2,3,7,8-TCDD

200516R1_16

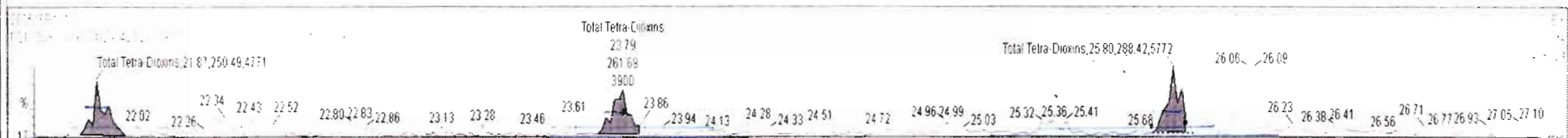
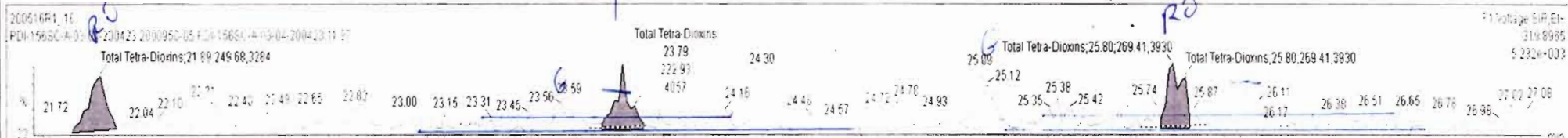


200516R1_16



Name	Resp	RA	nly	RFI	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.006			0.0856		0.0593	0.254
40 Total Penta-Dioxins				0.9425	10.006			0.000		0.0446	0.214
41 Total Hexa-Dioxins				0.9145	10.006			2.55		0.0774	2.65
42 Total Hepta-Dioxins				0.8979	10.006			17.9		0.122	17.9

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Dioxins	21.89	2.497e2	2.505e2	1.00	YES	0.078325	0.00000
2 Total Tetra-Dioxins	23.79	2.229e2	2.617e2	0.85	NO	0.085613	0.085613
3 Total Tetra-Dioxins	25.80	2.694e2	2.884e2	0.93	YES	0.090186	0.00000



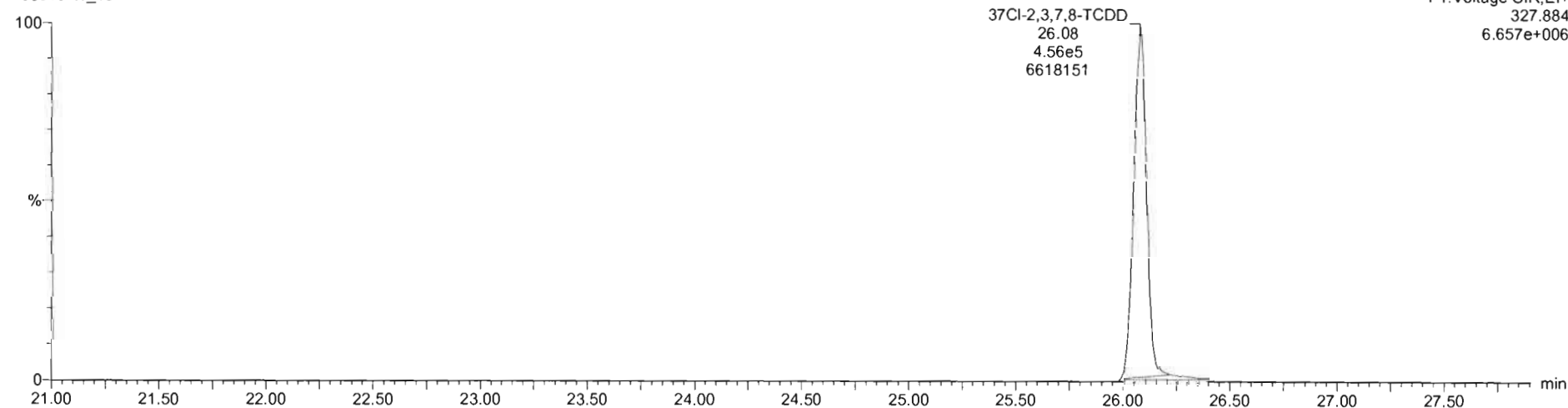
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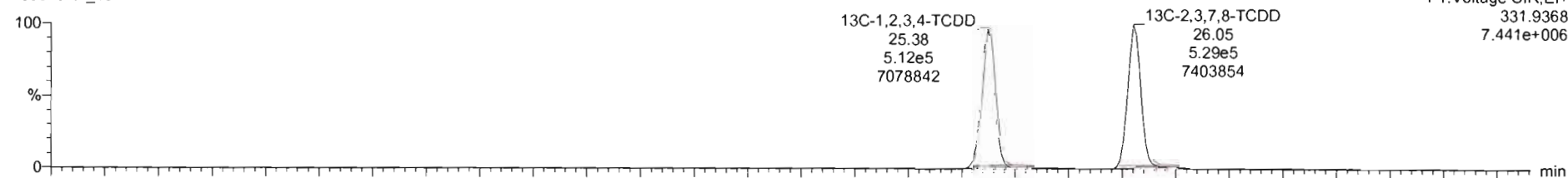
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200516R1_16

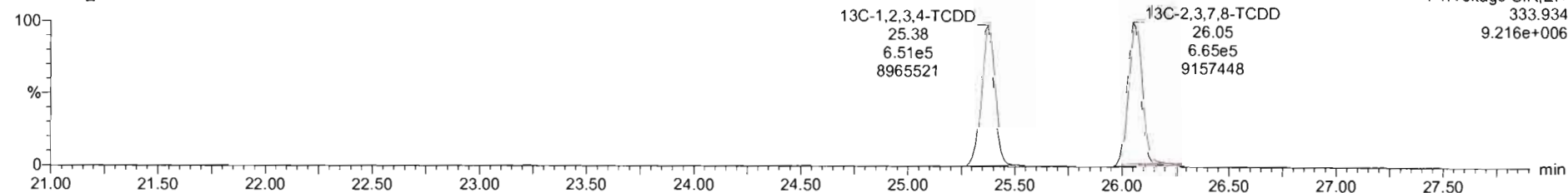


13C-1,2,3,4-TCDD

200516R1_16



200516R1_16



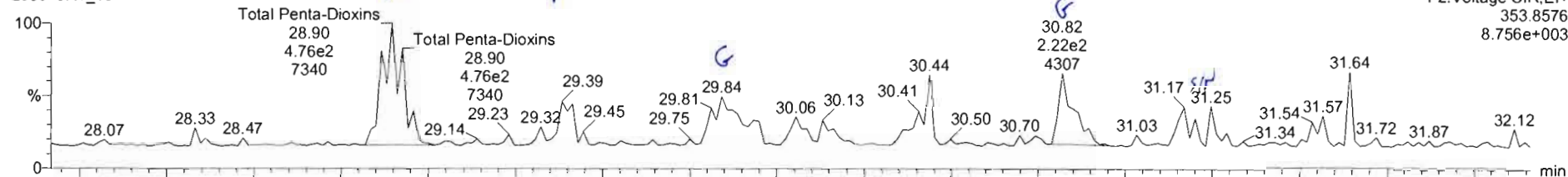
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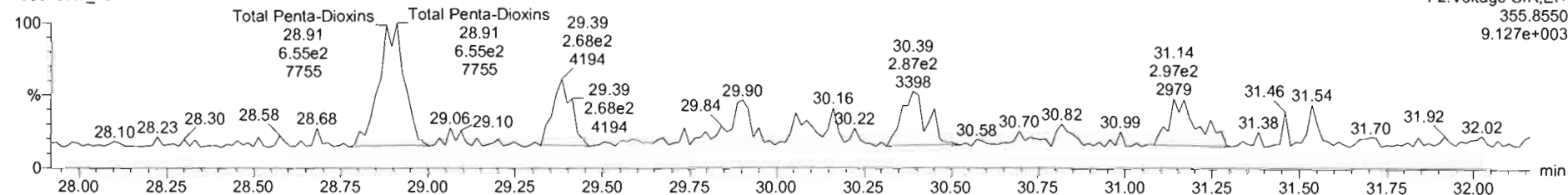
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1,2,3,7,8-PeCDD

200516R1_16

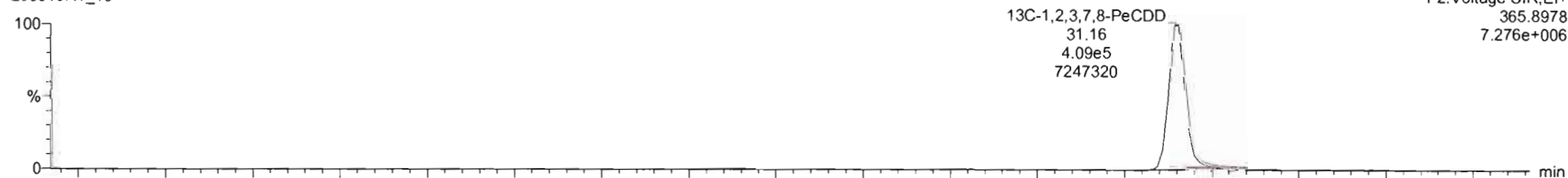


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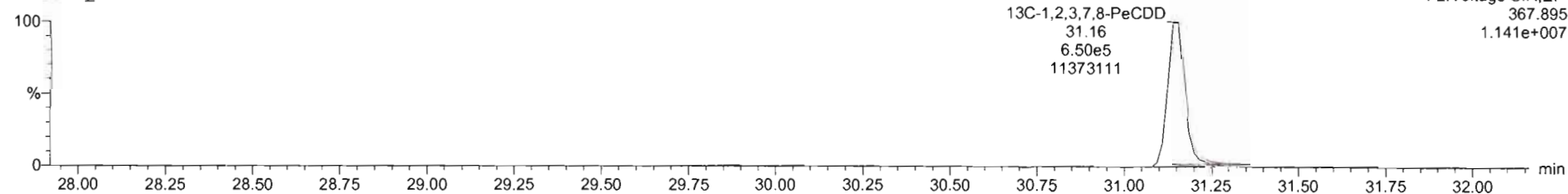


13C-1,2,3,7,8-PeCDD

200516R1_16



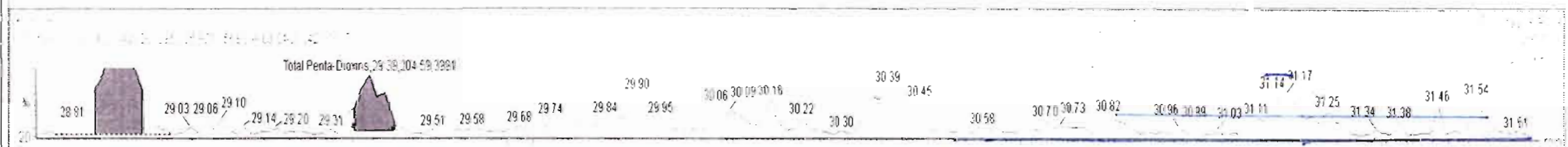
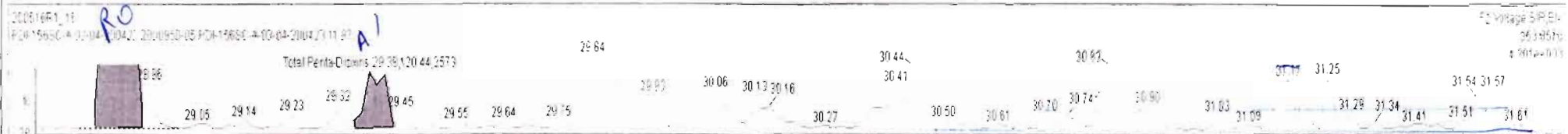
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200516R1_16 - 2000950-05-PDI-156SC-A-03-04-200423 11.97 - PDI-156SC-A-03-04-200423

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.006			0.0656	0.0593	0.254	
40 Total Penta-Dioxins				0.9425	10.006			0.090	0.0687	0.234	
41 Total Hexa-Dioxins				0.9145	10.006			2.55	0.0774	2.68	
42 Total Hepta-Dioxins				0.6979	10.006			17.9	0.122	17.9	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Dioxins	28.90	4.034e2	5.169e2	0.76	YES	0.16877	0.00000
2 Total Penta-Dioxins	29.39	1.204e2	2.046e2	0.59	NO	0.065107	0.00000



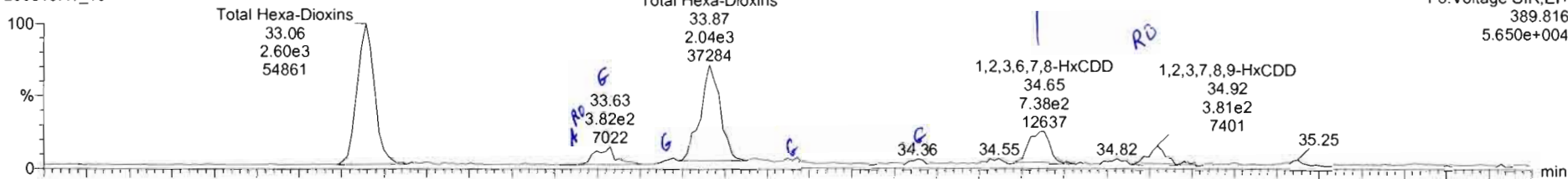
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Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423

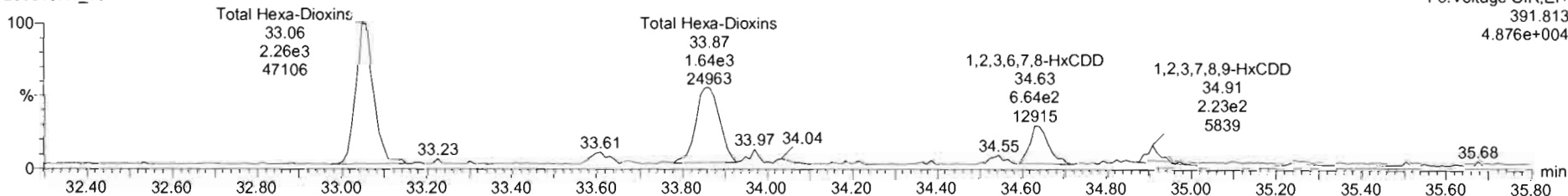
1,2,3,4,7,8-HxCDD

200516R1_16



F3:Voltage SIR,EI+
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5.650e+004

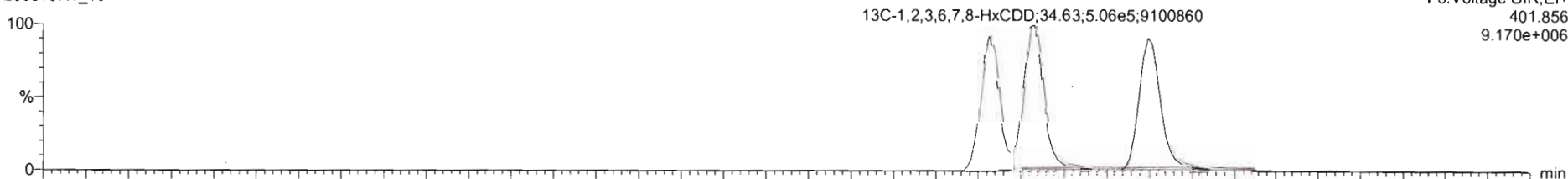
200516R1_16



F3:Voltage SIR,EI+
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4.876e+004

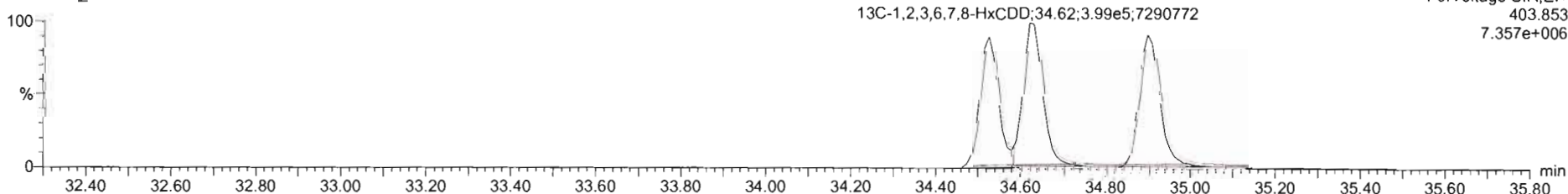
13C-1,2,3,4,7,8-HxCDD

200516R1_16



F3:Voltage SIR,EI+
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9.170e+006

200516R1_16

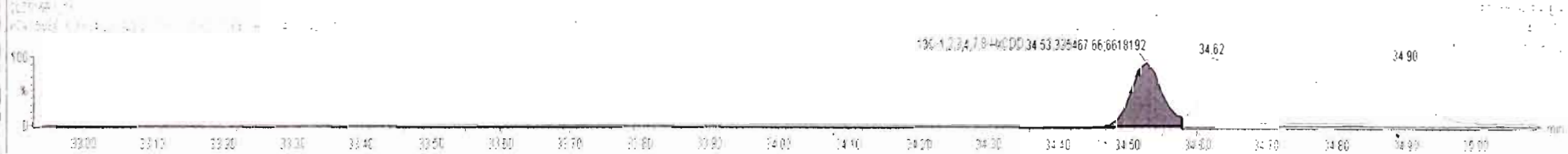
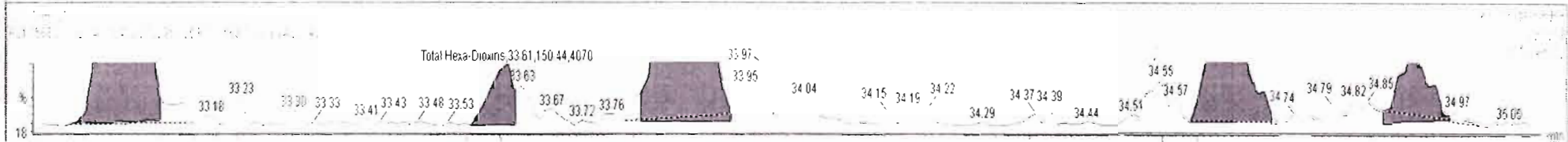
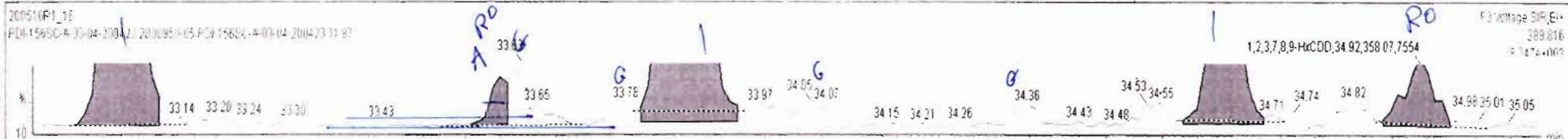


F3:Voltage SIR,EI+
403.853
7.357e+006

200516R1_16 - 2000950-05 PDI-156SC-A-03-04-200423 11:97 - PDI-156SC-A-03-04-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.006			0.0856		0.0693	0.254
40 Total Penta-Dioxins				0.9425	10.006			0.000		0.0687	0.254
41 Total Hexa-Dioxins				0.9145	10.006			2.58		0.0774	2.79
42 Total Hepta-Dioxins				0.6979	10.006			17.9		0.122	17.9

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.08	2.552e3	2.206e3	1.16	NO	1.2336	1.2336
2 Total Hexa-Dioxins	33.60	1.413e2	1.504e2	0.94	YES	0.066161	0.00000
3 Total Hexa-Dioxins	33.87	2.199e3	1.655e3	1.33	NO	0.99921	0.99921
4 1,2,3,6,7,8-HxCDD	34.65	7.641e2	6.633e2	1.15	NO	0.34495	0.34495
5 1,2,3,7,8,9-HxCDD	34.92	3.581e2	2.500e2	1.43	YES	0.14169	0.00000



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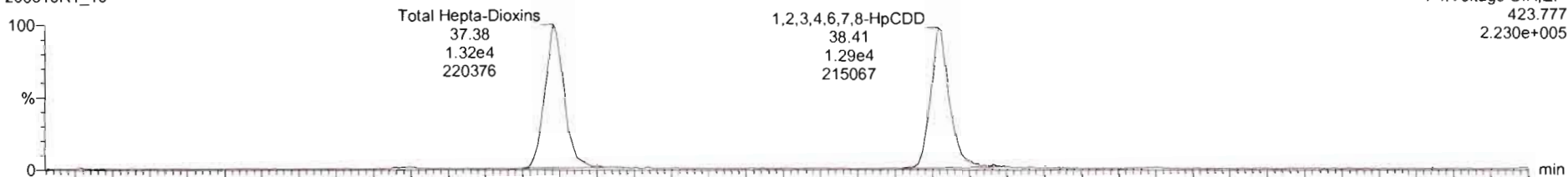
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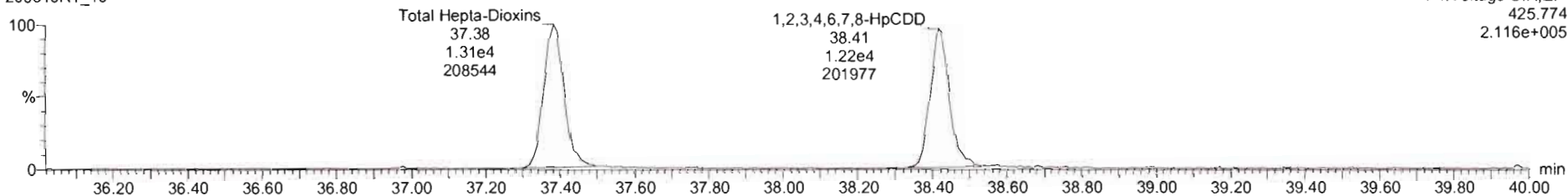
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1,2,3,4,6,7,8-HpCDD

200516R1_16

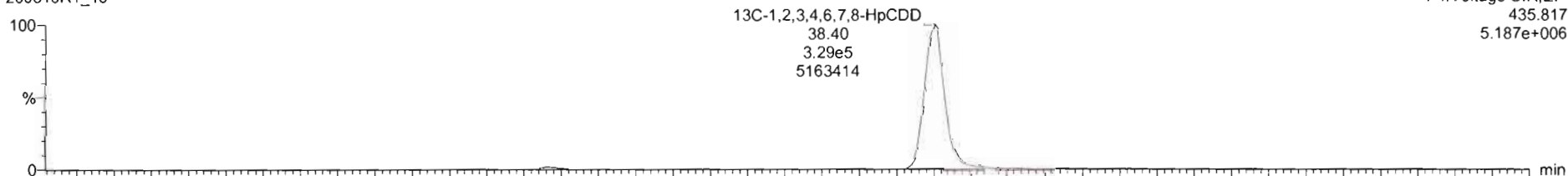


200516R1_16

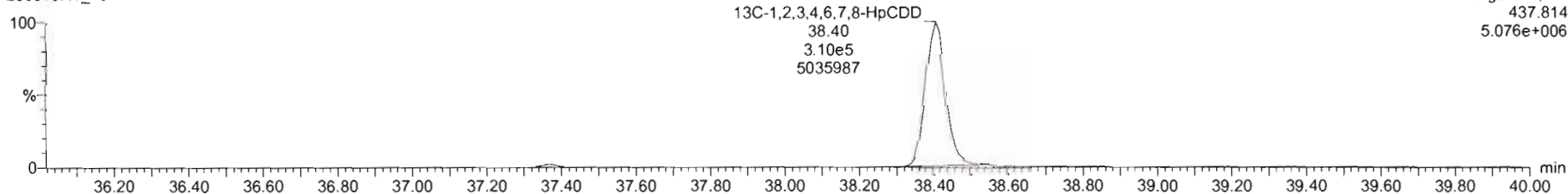


13C-1,2,3,4,6,7,8-HpCDD

200516R1_16

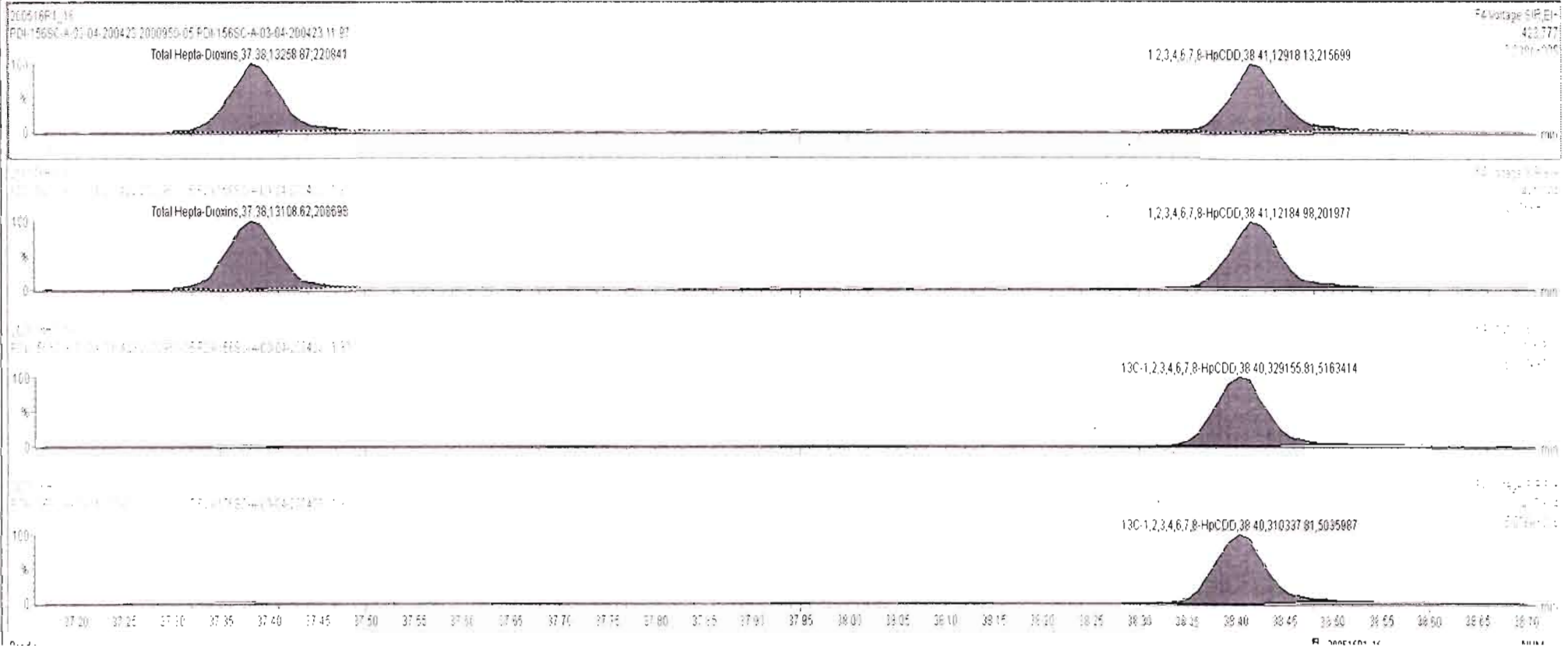


200516R1_16



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMFC
39 Total Tetra-Dioxins				0.9475	10.006			0.0856	0.0593	0.254	
40 Total Penta-Dioxins				0.9425	10.006			0.000	0.0687	0.234	
41 Total Hexa-Dioxins				0.9145	10.006			2.58	0.0774	2.79	
42 Total Hepta-Dioxins				0.8979	10.006			17.9	0.122	17.9	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMFC	Conc.
1 Total Hepta-Dioxins	37.38	1.326e4	1.311e4	1.01	NO	9.1783	9.1783
2 1,2,3,4,6,7,8-HpCDD	38.41	1.292e4	1.218e4	1.06	NO	8.7382	8.7382

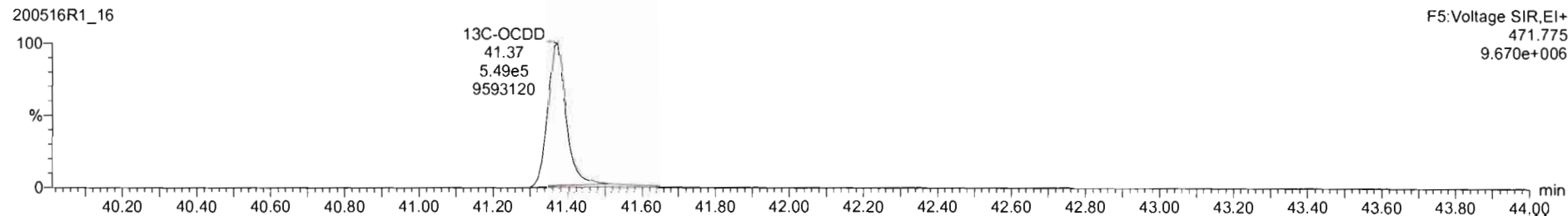
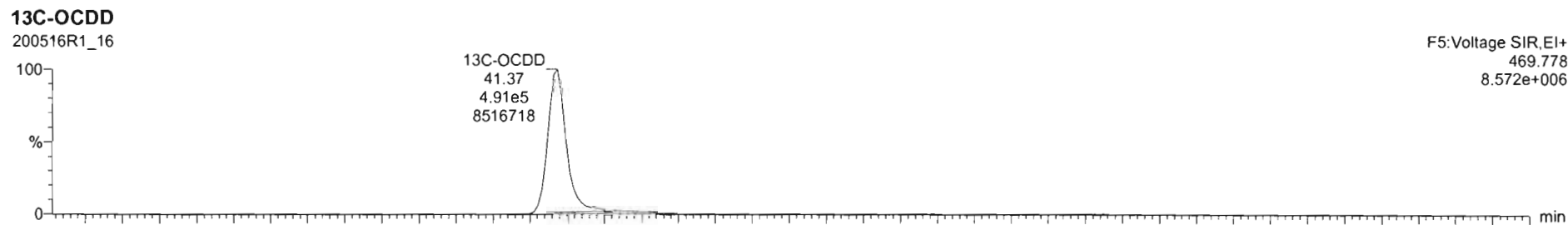
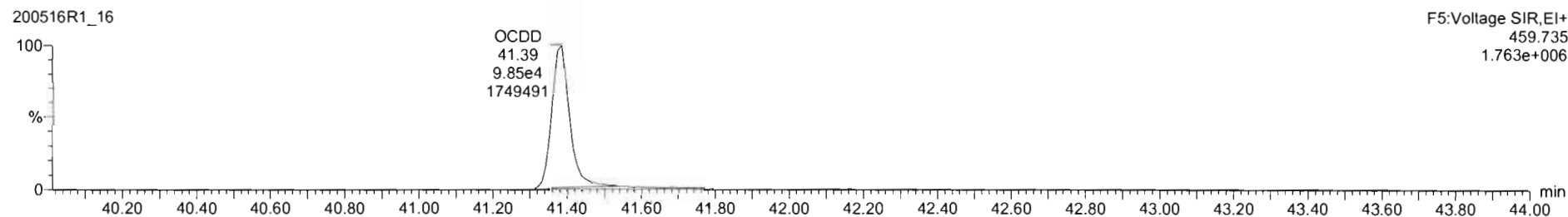
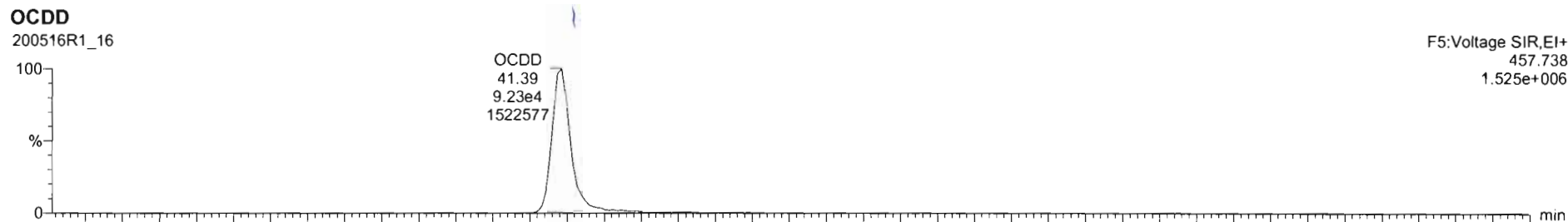


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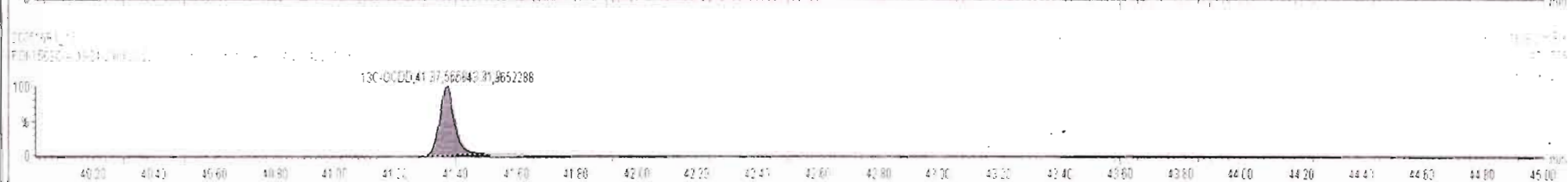
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200516R1_16 - 2000950-05 PDI-156SC-A-03-04-200423 11 97 - PDI-156SC-A-03-04-200423

ID	Name	Resp	RA	nLy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7	OCDD	1.92e5	0.89	NO	0.9335	10.006	41.39	1.000	76.7		0.151	76.7
8	2,3,7,8-TCDF	1.00e3	0.60	NO	0.7871	10.006	25.14	1.001	0.175		0.0477	0.175
9	1,2,3,7,8-PeCDF	9.80e2	1.55	NO	0.9102	10.006	29.67	1.001	0.144		0.0387	0.144
10	2,3,4,7,8-PeCDF	1.24e3	1.63	NO	0.9664	10.006	30.86	1.001	0.180		0.0352	0.180

ID	Name	RT	m1 Resp	m2 Resp	RA	nLy	EMPC	Conc.
1								



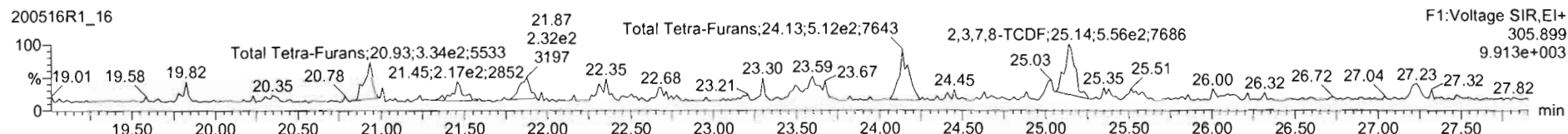
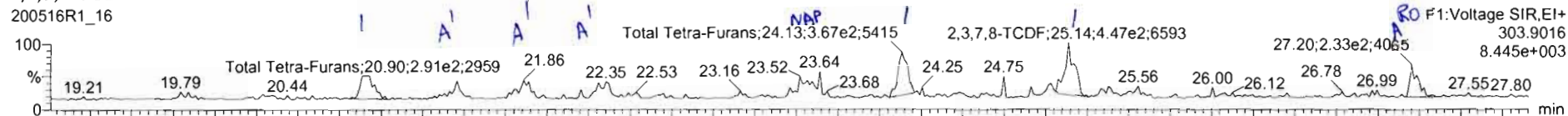
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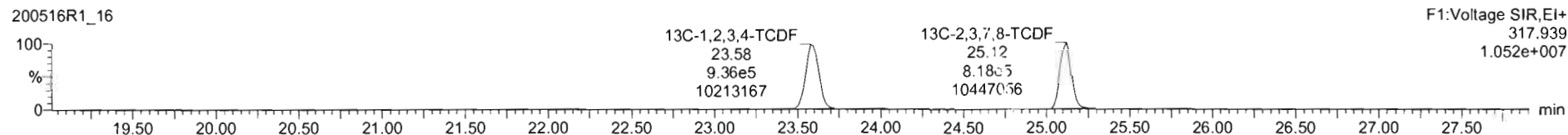
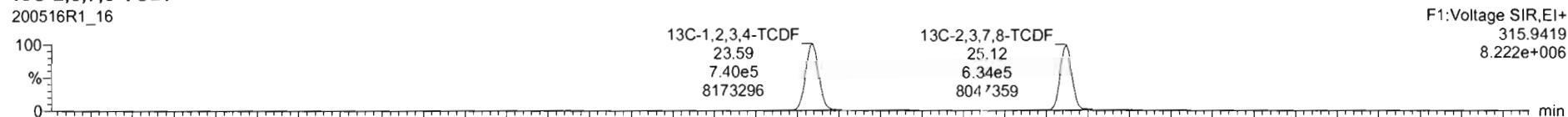
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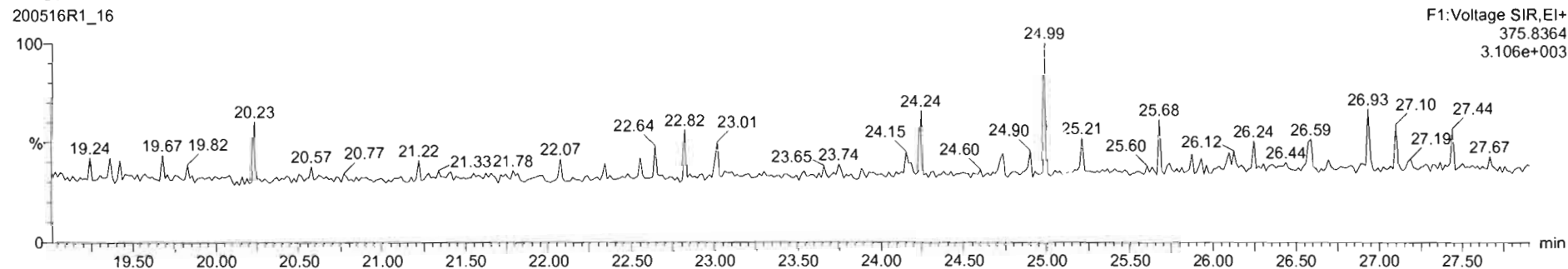
2,3,7,8-TCDF



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

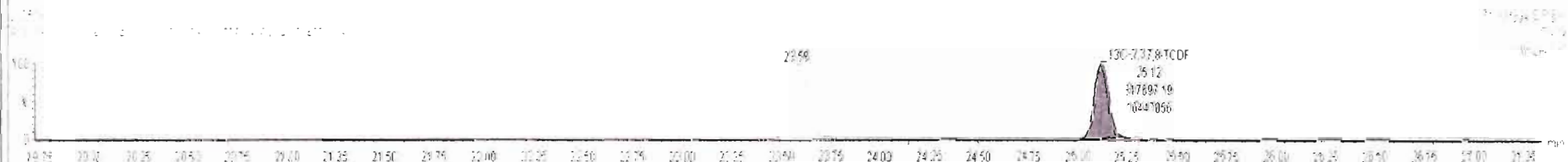
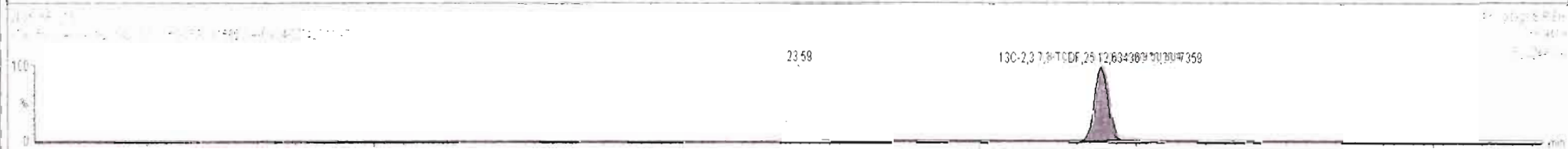
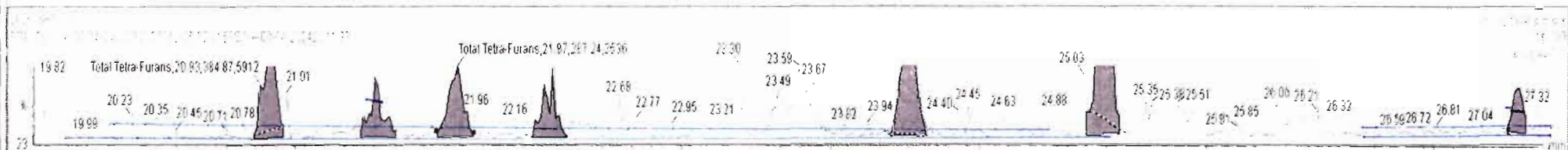
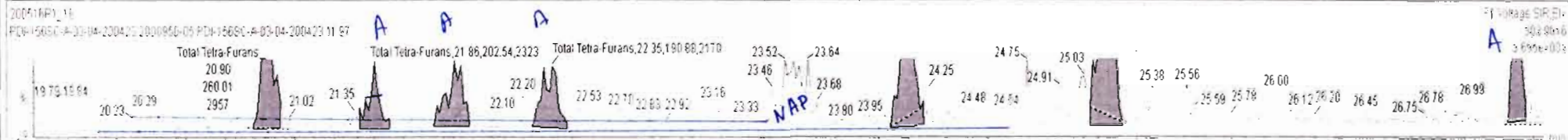


DPE1



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.006			0.640		0.0477	0.743
44 1st Func. Penta-Furans				0.9102	10.006			0.641		0.0146	0.641
45 Total Penta-Furans				0.9102	10.006			0.324		0.0360	0.503
46 Total Hexa-Furans				0.9217	10.006			1.86		0.0418	1.66

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Furans	20.90	2.600e2	3.849e2	0.68	NO	0.11278	0.11278
2 Total Tetra-Furans	21.45	1.323e2	1.900e2	0.66	NO	0.057947	0.00000
3 Total Tetra-Furans	21.66	2.025e2	2.872e2	0.71	NO	0.085655	0.085655
4 Total Tetra-Furans	22.35	1.909e2	2.160e2	0.86	NO	0.071151	0.071151
5 Total Tetra-Furans	24.13	4.269e2	5.262e2	0.81	NO	0.16668	0.16668
6 2,3,7,8-TCDF	25.14	5.088e2	6.552e2	0.78	NO	0.20355	0.20355
7 Total Tetra-Furans	27.20	1.912e2	1.465e2	1.31	YES	0.045335	0.00000



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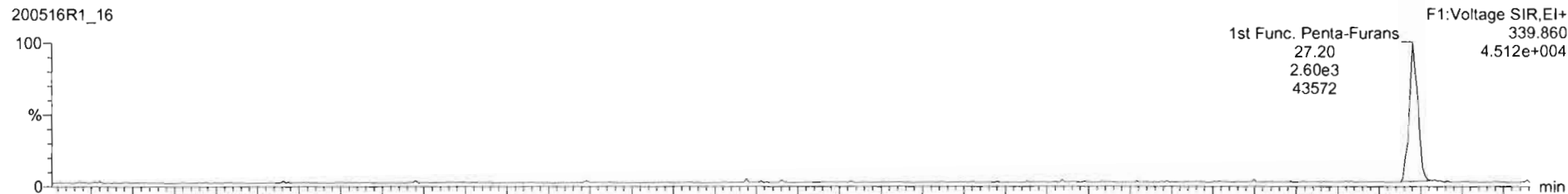
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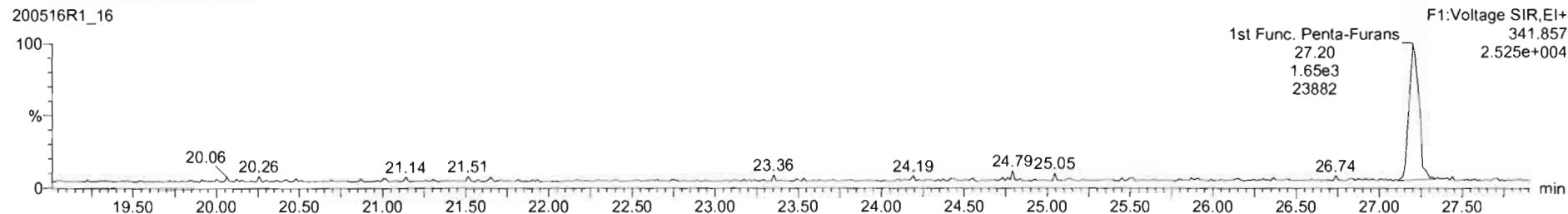
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1st Func. Penta-Furans

200516R1_16

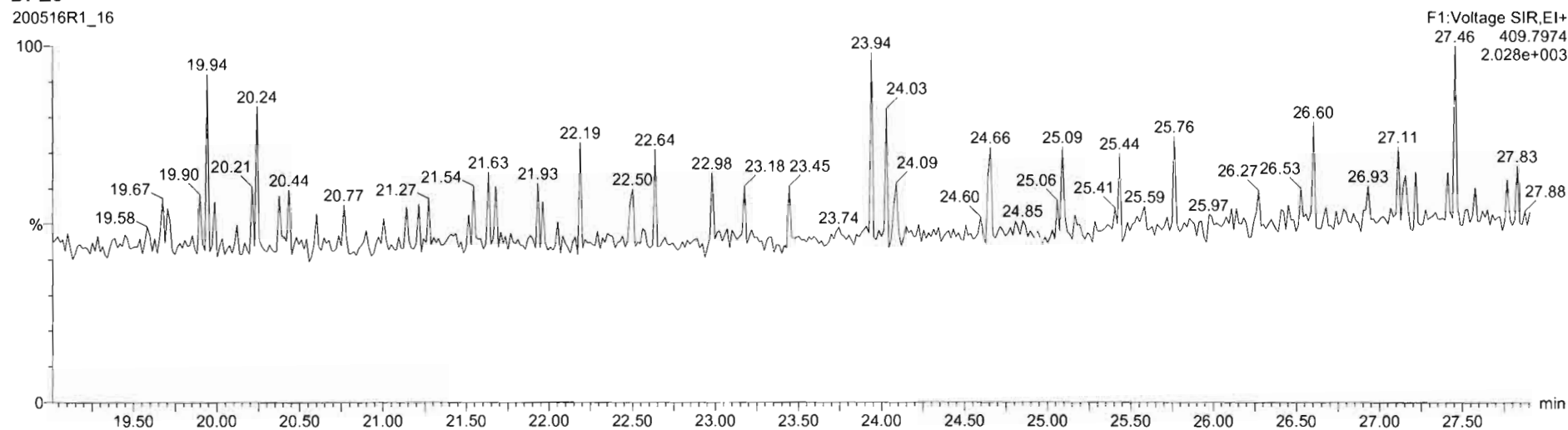


200516R1_16



DPE6

200516R1_16

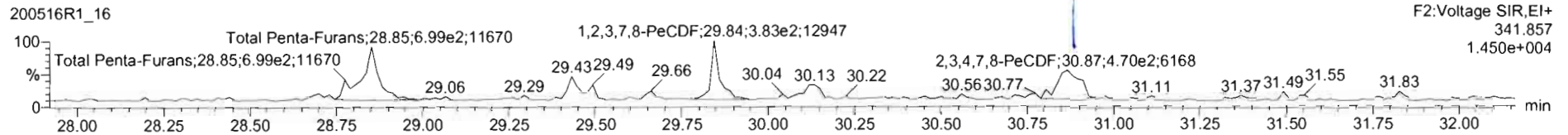
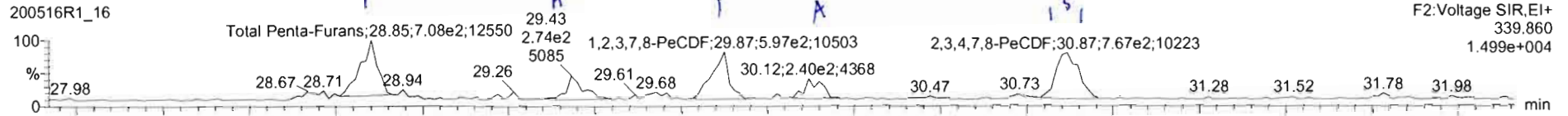


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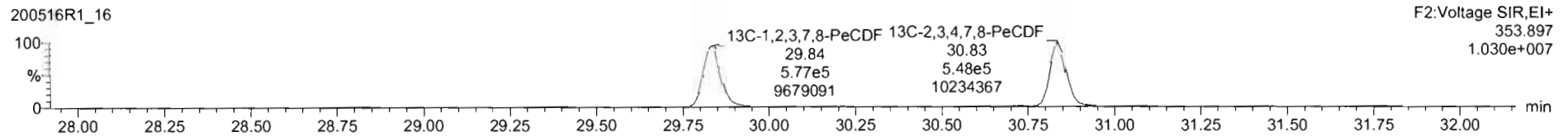
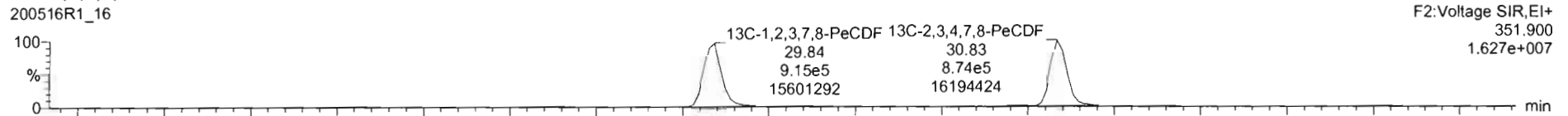
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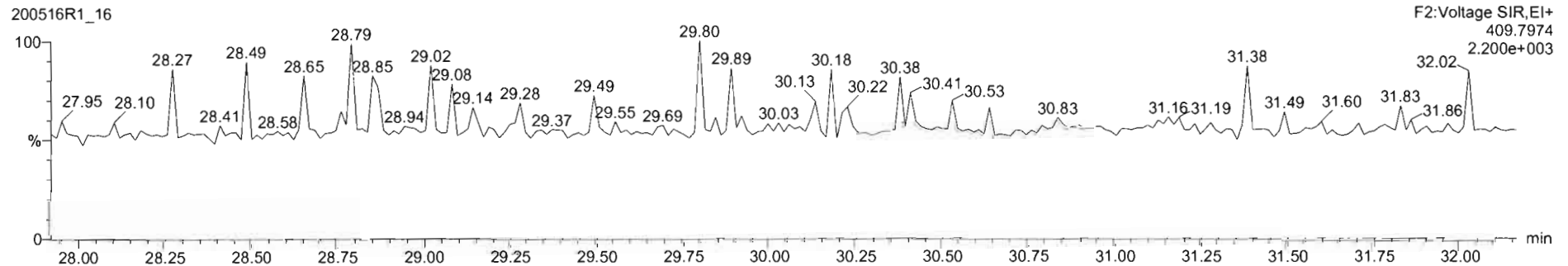
1,2,3,7,8-PeCDF



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

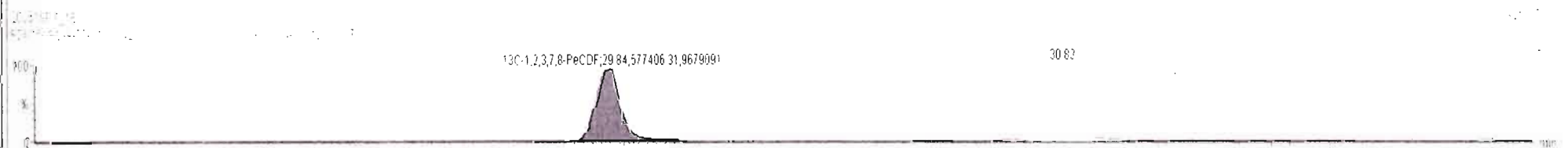
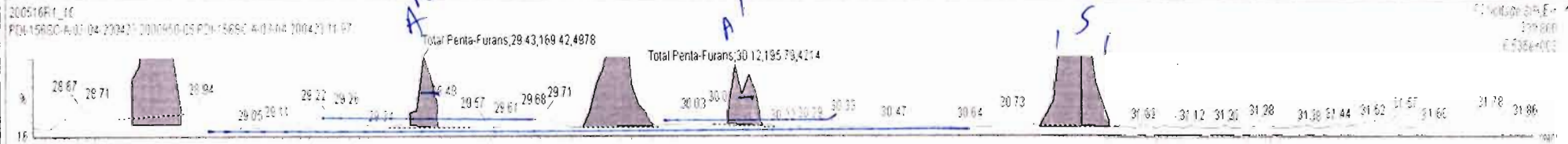


DPE2



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.006			0.640		0.0477	0.743
44 1st Func. Penta-Furans				0.9102	10.006			0.641		0.0146	0.641
45 Total Penta-Furans				0.9102	10.006			0.567		0.0380	0.609
46 Total Hexa-Furans				0.9217	10.006			1.86		0.0418	1.86

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Furans	26.65	7.312e2	5.465e2	1.34	NO	0.19256	0.19256
2 Total Penta-Furans	29.43	1.694e2	1.529e2	1.11	YES	0.042009	0.00000
3 1,2,3,7,8-PeCDF	29.87	5.921e2	3.822e2	1.55	NO	0.14342	0.14342
4 Total Penta-Furans	30.12	1.956e2	1.361e2	1.44	NO	0.050025	0.050025
5 2,3,4,7,8-PeCDF	30.87	5.099e2	3.044e2	1.67	NO	0.11844	0.11844
6 Total Penta-Furans	30.95	2.522e2	1.659e2	1.52	NO	0.063006	0.063006



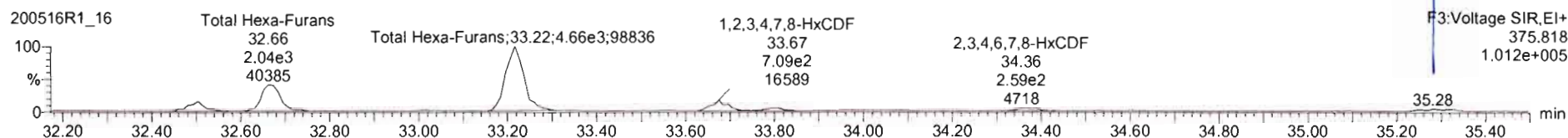
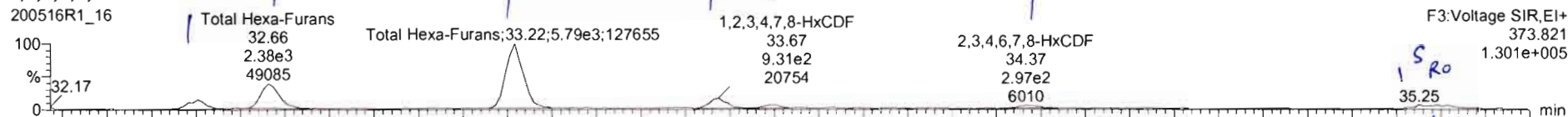
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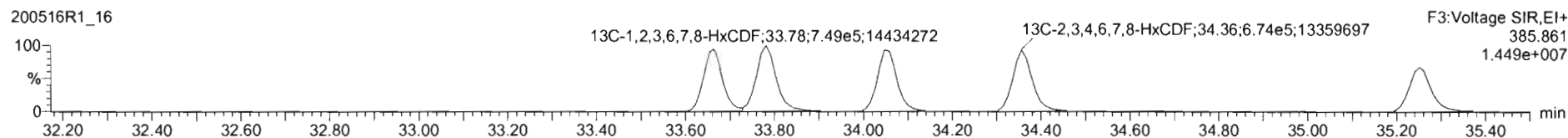
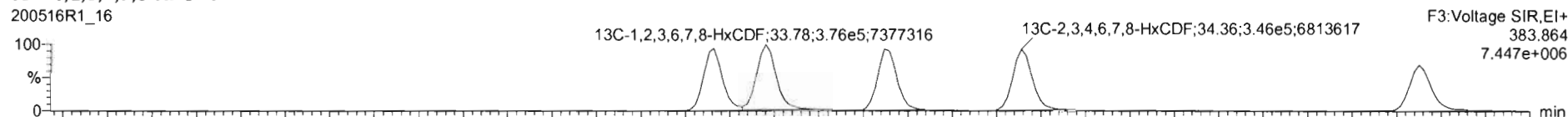
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Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423

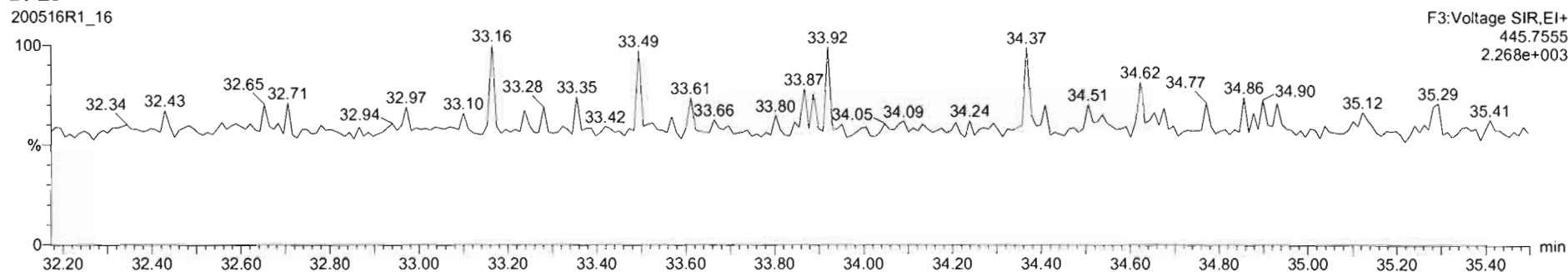
1,2,3,4,7,8-HxCDF



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



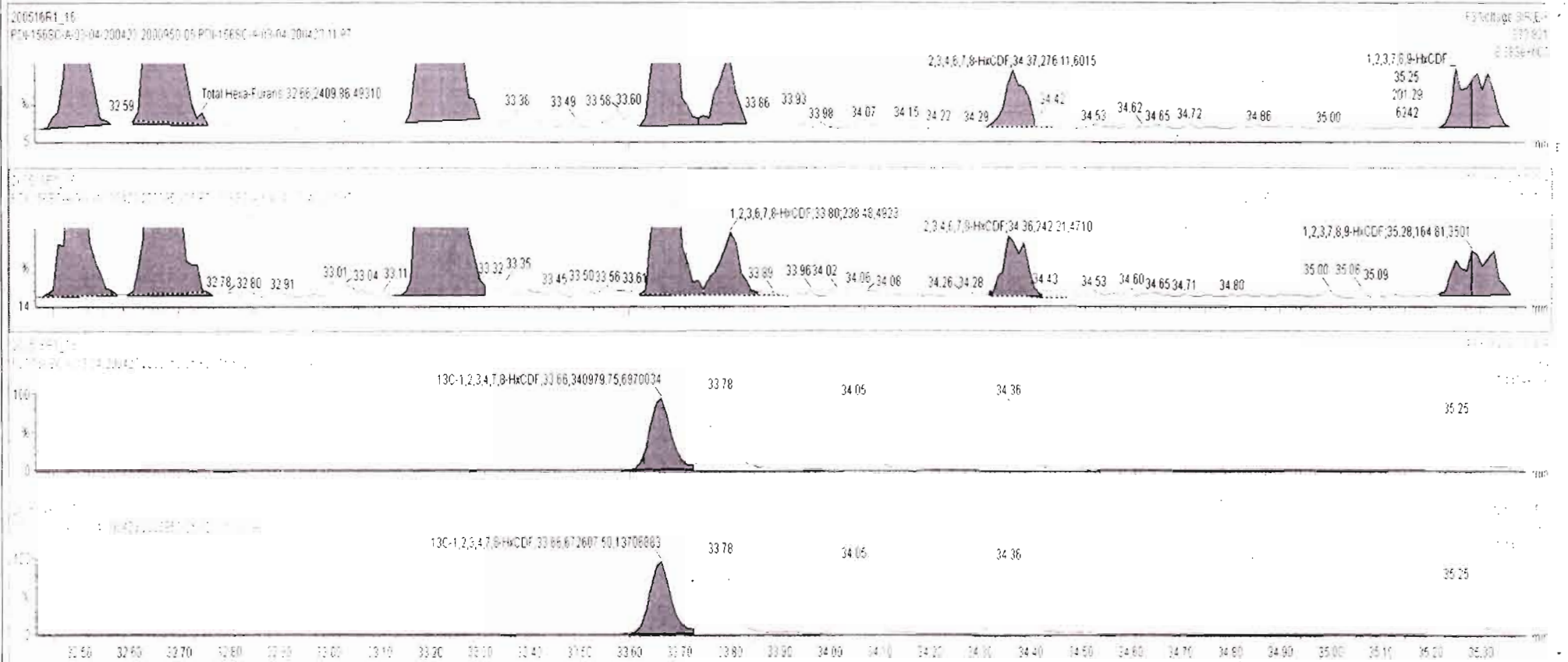
DPE3



200516R1_16 - 2000950-05 PDI-156SC-A-03-04-200423 11.97 - PDI-156SC-A-03-04-200423

XI	Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7871	10.006			0.640		0.0477	0.743
44	1st Func. Penta-Furans				0.9102	10.006			0.641		0.0146	0.641
45	Total Penta-Furans				0.9102	10.006			0.967		0.0380	0.609
46	Total Hexa-Furans				0.9217	10.006			4.24		0.0418	4.30

XI	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Hexa-Furans	32.50	7.939e2	6.747e2	1.18	NO	0.31506	0.31506
2	Total Hexa-Furans	32.66	2.410e3	2.073e3	1.16	NO	0.96442	0.96442
3	Total Hexa-Furans	33.22	5.789e3	4.788e3	1.21	NO	2.2752	2.2752
4	1,2,3,4,7,8-HxCDF	33.67	9.315e2	7.175e2	1.30	NO	0.37025	0.37025
5	1,2,3,6,7,8-HxCDF	33.80	3.030e2	2.385e2	1.27	NO	0.11010	0.11010
6	2,3,4,6,7,8-HxCDF	34.37	2.761e2	2.422e2	1.14	NO	0.11024	0.11024
7	1,2,3,7,8,9-HxCDF	35.25	2.013e2	1.648e2	1.22	NO	0.096854	0.096854
8	Total Hexa-Furans	35.29	2.476e2	1.127e2	2.20	YES	0.054327	0.00000



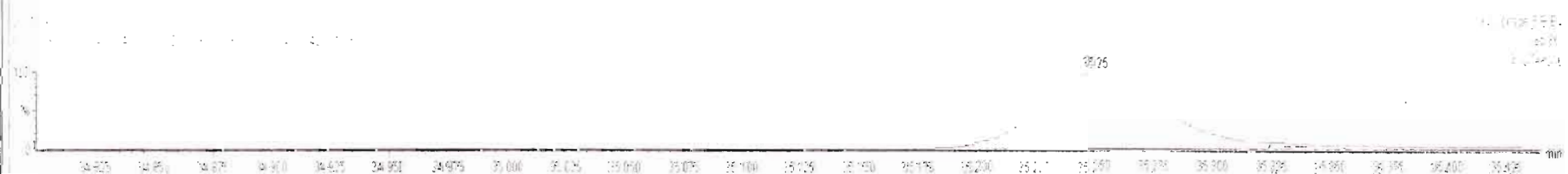
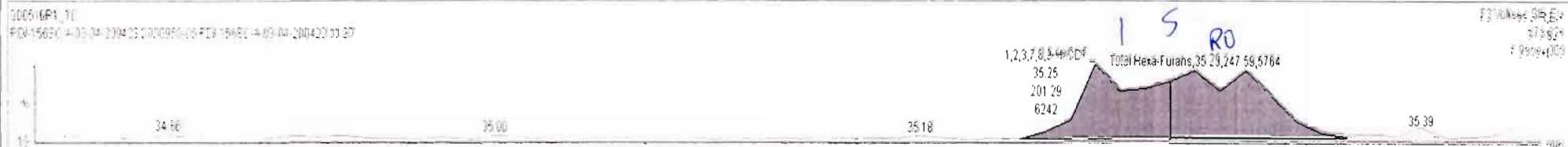


200516R1_16 - 2000950-05 PDI-156SC-A-03-04-200423 11.97 - PDI-156SC-A-03-04-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7671	10.006			0.640		0.0477	0.743
44 1st Func. Penta-Furans				0.9102	10.006			0.641		0.0146	0.641
45 Total Penta-Furans				0.9102	10.006			0.967		0.0360	0.609
46 Total Hexa-Furans				0.9217	10.006			4.24		0.0418	4.30

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.50	7.936e2	6.747e2	1.18	NO	0.31586	0.31586
2 Total Hexa-Furans	32.66	2.410e3	2.073e3	1.16	NO	0.96442	0.96442
3 Total Hexa-Furans	33.22	5.789e3	4.788e3	1.21	NO	2.2752	2.2752
4 1,2,3,4,7,8-HxCDF	33.67	9.315e2	7.175e2	1.30	NO	0.37025	0.37025
5 1,2,3,6,7,8-HxCDF	33.80	3.030e2	2.385e2	1.27	NO	0.11010	0.11010
6 2,3,4,6,7,8-HxCDF	34.37	2.761e2	2.422e2	1.14	NO	0.11024	0.11024
7 1,2,3,7,8,9-HxCDF	35.25	2.013e2	1.648e2	1.22	NO	0.096854	0.096854
8 Total Hexa-Furans	35.29	2.476e2	1.127e2	2.20	YES	0.054327	0.00000

200516R1_16
PDI-156SC-A-03-04-200423 11.97 PDI-156SC-A-03-04-200423 11.97



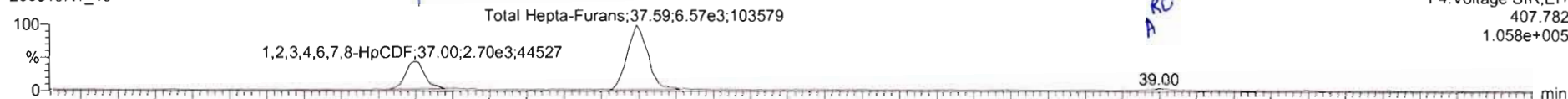
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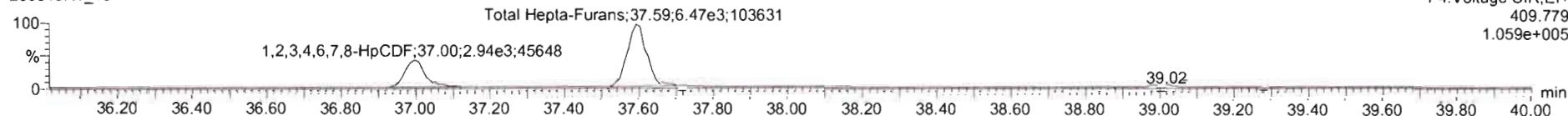
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1,2,3,4,6,7,8-HpCDF

200516R1_16

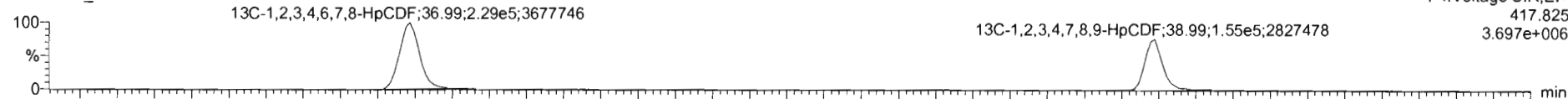


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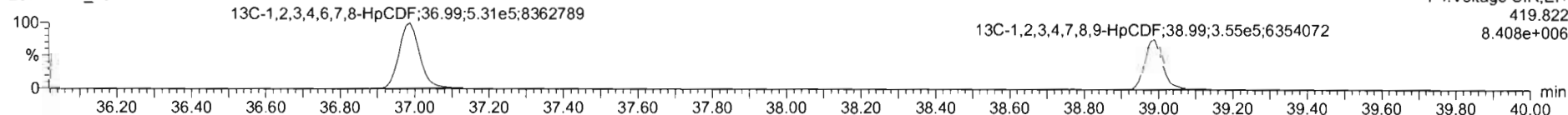


13C-1,2,3,4,6,7,8-HpCDF

200516R1_16

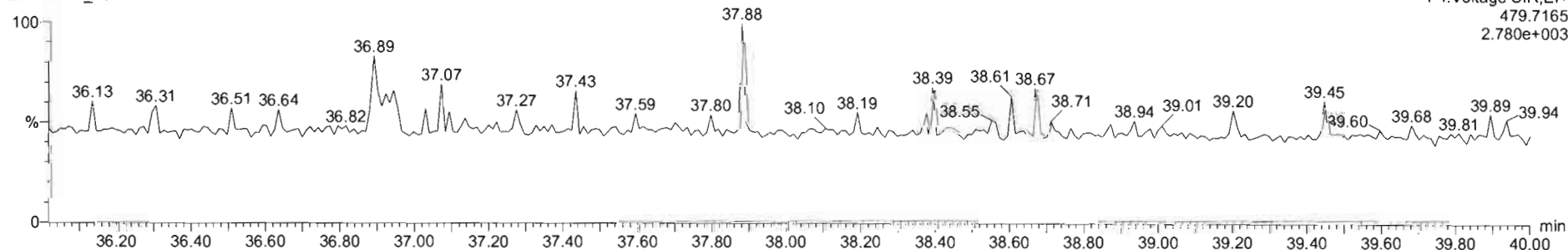


200516R1_16



DPE4

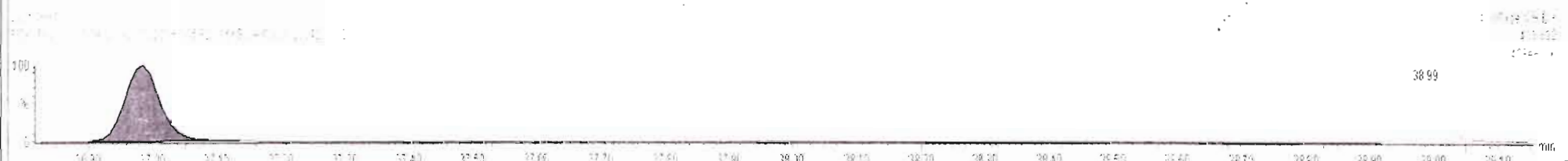
200516R1_16



200516R1_16 - 2000950-05 PDI-156SC-A-03-04-200423 11.97 - PDI-156SC-A-03-04-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.006			0.640		0.0477	0.743
44 1st Func. Penta-Furans				0.9102	10.006			0.641		0.0146	0.641
45 Total Penta-Furans				0.9102	10.006			0.567		0.0380	0.609
46 Total Hexa-Furans				0.9217	10.006			4.24		0.0418	4.39

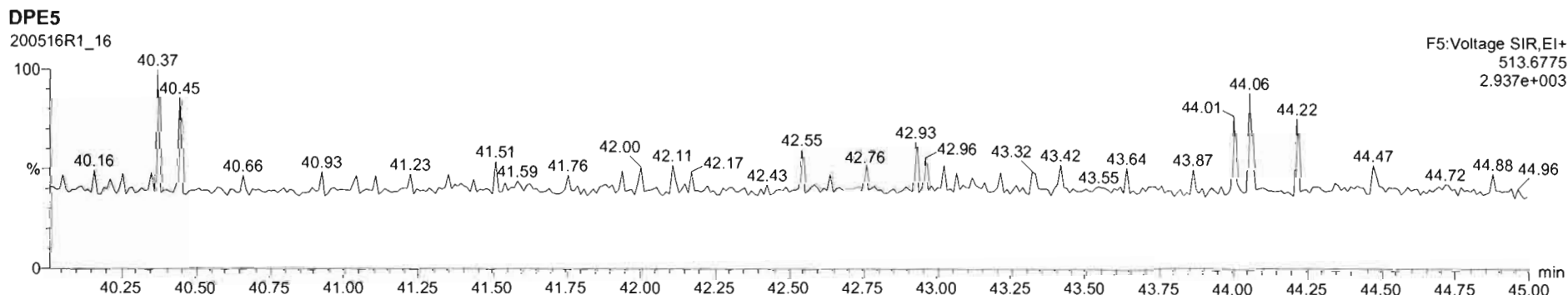
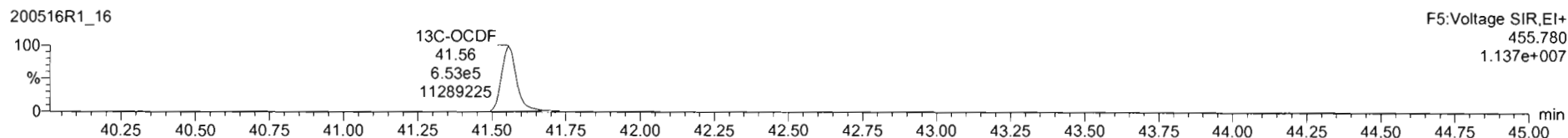
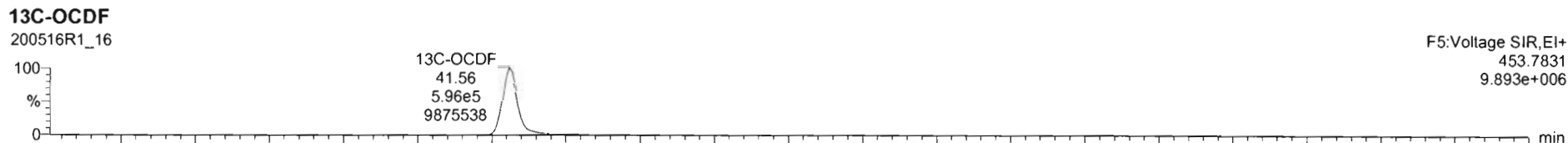
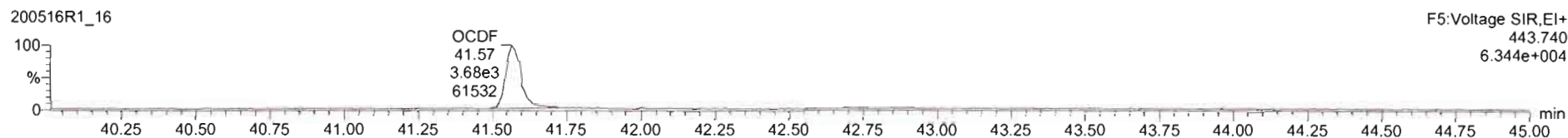
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.00	2.801e3	2.949e3	0.95	NO	1.7355	1.7355
2 Total Hepta-Furans	37.59	6.600e3	6.584e3	1.00	NO	4.7628	4.7628
3 1,2,3,4,7,8,9-HpCDF	39.00	1.631e2	1.961e2	0.83	YES	0.12390	0.00000



Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:36:56 Pacific Daylight Time
Printed: Monday, May 18, 2020 07:40:18 Pacific Daylight Time

Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423

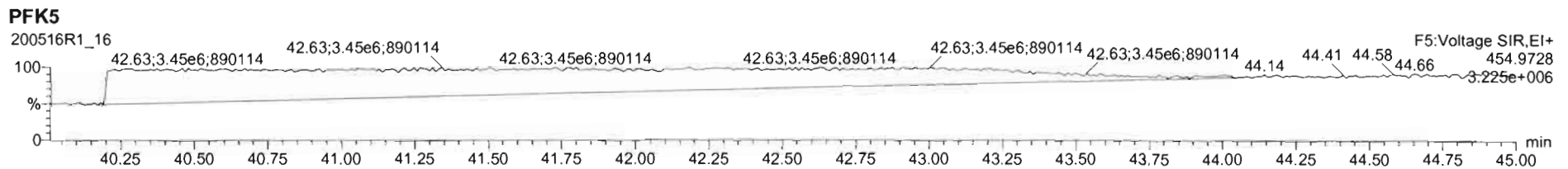
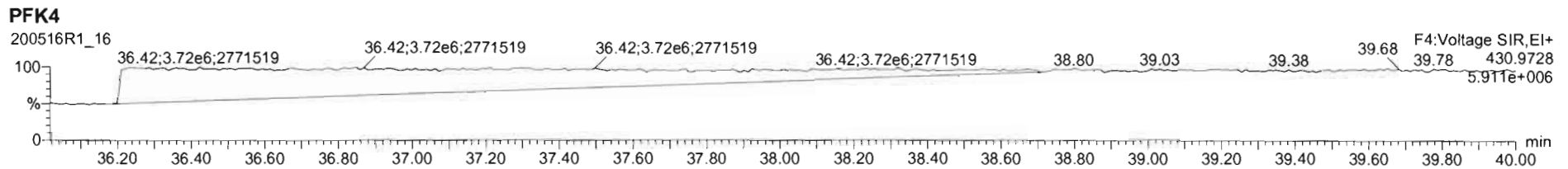
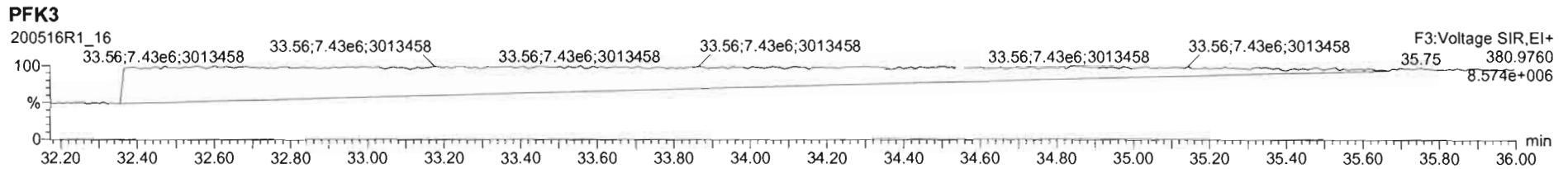
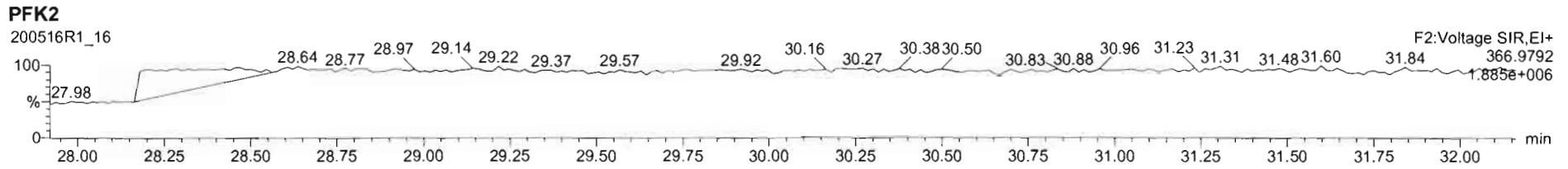
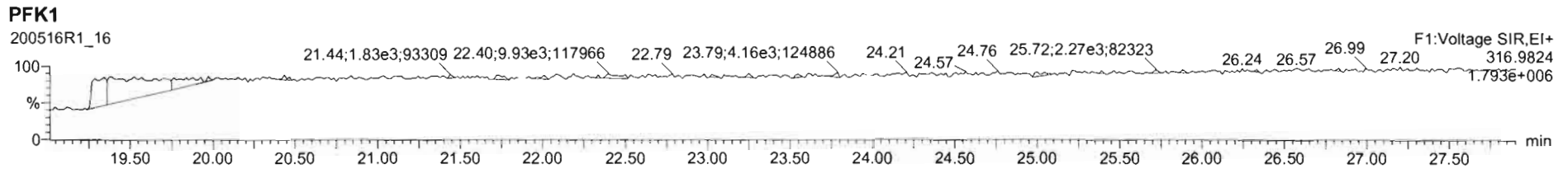


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Name: 200516R1_16, Date: 16-May-2020, Time: 20:45:02, ID: 2000950-05 PDI-156SC-A-03-04-200423 11.97, Description: PDI-156SC-A-03-04-200423



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-6a.qld

Last Altered: Tuesday, May 19, 2020 12:45:07 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 12:54:09 PM Pacific Daylight Time

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Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_6, Date: 18-May-2020, Time: 17:53:49, ID: 2000950-06 PDI-156SC-A-04-05-200423 11.04, Description: PDI-156SC-A-04-05-200423

#	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	0.947	10.039	26.080	31.17	1.001	1.001			0.0401	
2	2 1,2,3,7,8-PeCDD	3.89e2	0.92	YES	0.942	10.039	31.162	31.17	1.001	1.001	0.050257		0.0397	0.0427
3	3 1,2,3,4,7,8-HxCDD	9.02e2	1.23	NO	1.06	10.039	34.526	34.62	1.000	1.003	0.14510		0.0587	0.145
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.039	34.623		1.000				0.0603	
5	5 1,2,3,7,8,9-HxCDD	4.92e2	1.23	NO	0.915	10.039	34.899	34.90	1.000	1.000	0.081606		0.0680	0.0816
6	6 1,2,3,4,6,7,8-HpCDD	1.39e4	1.00	NO	0.898	10.039	38.405	38.40	1.000	1.000	3.2669		0.0833	3.27
7	7 OCDD	1.11e5	0.88	NO	0.933	10.039	41.375	41.39	1.000	1.000	30.431		0.107	30.4
8	8 2,3,7,8-TCDF	7.50e2	0.78	NO	0.787	10.039	25.147	25.14	1.001	1.001	0.080829		0.0379	0.0808
9	9 1,2,3,7,8-PeCDF	9.63e2	1.46	NO	0.910	10.039	29.849	29.84	1.001	1.001	0.091086		0.0337	0.0911
10	10 2,3,4,7,8-PeCDF	5.34e2	1.14	YES	0.966	10.039	30.854	30.85	1.001	1.000	0.048248		0.0332	0.0432
11	11 1,2,3,4,7,8-HxCDF	8.10e2	1.18	NO	0.878	10.039	33.653	33.67	1.000	1.001	0.12248		0.0363	0.122
12	12 1,2,3,6,7,8-HxCDF	4.22e2	1.37	NO	0.874	10.039	33.781	33.79	1.000	1.001	0.055080		0.0346	0.0551
13	13 2,3,4,6,7,8-HxCDF	3.50e2	1.56	YES	0.922	10.039	34.380	34.37	1.001	1.001	0.048225		0.0374	0.0432
14	14 1,2,3,7,8,9-HxCDF	3.31e2	1.13	NO	0.864	10.039	35.240	35.26	1.000	1.001	0.058007		0.0511	0.0580
15	15 1,2,3,4,6,7,8-HpCDF	1.96e3	0.98	NO	0.871	10.039	37.013	36.99	1.001	1.000	0.39475		0.0324	0.395
16	16 1,2,3,4,7,8,9-HpCDF	3.04e2	1.07	NO	1.01	10.039	38.979	39.01	1.000	1.001	0.077313		0.0347	0.0773
17	17 OCDF	4.13e3	0.88	NO	0.802	10.039	41.567	41.58	1.000	1.000	1.0861		0.0429	1.09
18	18 13C-2,3,7,8-TCDD	1.90e6	0.78	NO	1.16	10.039	26.046	26.05	1.026	1.027	184.14	92.4	0.132	
19	19 13C-1,2,3,7,8-PeCDD	1.64e6	0.63	NO	0.847	10.039	31.141	31.14	1.227	1.227	217.32	109	0.126	
20	20 13C-1,2,3,4,7,8-HxCDD	1.16e6	1.27	NO	0.750	10.039	34.517	34.52	1.014	1.014	195.07	97.9	0.322	
21	21 13C-1,2,3,6,7,8-HxCDD	1.41e6	1.26	NO	0.963	10.039	34.629	34.62	1.017	1.017	184.57	92.6	0.251	
22	22 13C-1,2,3,7,8,9-HxCDD	1.31e6	1.24	NO	0.838	10.039	34.898	34.89	1.025	1.025	197.10	98.9	0.288	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.47e5	1.05	NO	0.641	10.039	38.390	38.39	1.128	1.128	185.70	93.2	0.287	
24	24 13C-OCDD	1.56e6	0.91	NO	0.586	10.039	41.386	41.38	1.216	1.216	334.80	84.0	0.331	
25	25 13C-2,3,7,8-TCDF	2.35e6	0.77	NO	1.03	10.039	25.104	25.12	0.989	0.990	178.44	89.6	0.217	
26	26 13C-1,2,3,7,8-PeCDF	2.32e6	1.59	NO	0.845	10.039	29.829	29.83	1.176	1.175	215.38	108	0.344	
27	27 13C-2,3,4,7,8-PeCDF	2.23e6	1.58	NO	0.814	10.039	30.822	30.83	1.215	1.215	215.73	108	0.357	
28	28 13C-1,2,3,4,7,8-HxCDF	1.50e6	0.51	NO	1.00	10.039	33.656	33.65	0.989	0.989	187.69	94.2	0.280	
29	29 13C-1,2,3,6,7,8-HxCDF	1.75e6	0.51	NO	1.14	10.039	33.778	33.77	0.992	0.992	193.39	97.1	0.248	
30	30 13C-2,3,4,6,7,8-HxCDF	1.54e6	0.52	NO	1.02	10.039	34.347	34.35	1.009	1.009	188.84	94.8	0.276	
31	31 13C-1,2,3,7,8,9-HxCDF	1.32e6	0.49	NO	0.845	10.039	35.239	35.24	1.035	1.035	195.77	98.3	0.334	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-6a.qld

Last Altered: Tuesday, May 19, 2020 12:45:07 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 12:54:09 PM Pacific Daylight Time

Name: 200518R2_6, Date: 18-May-2020, Time: 17:53:49, ID: 2000950-06 PDI-156SC-A-04-05-200423 11.04, Description: PDI-156SC-A-04-05-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.13e6	0.44	NO	0.771	10.039	36.971	36.98	1.086	1.086	184.96	92.8	0.304	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.75e5	0.42	NO	0.482	10.039	38.983	38.98	1.145	1.145	202.10	101	0.486	
34	34 13C-OCDF	1.89e6	0.88	NO	0.669	10.039	41.556	41.57	1.221	1.221	355.51	89.2	0.344	
35	35 37Cl-2,3,7,8-TCDD	7.42e5			1.10	10.039	26.076	26.08	1.028	1.028	76.084	95.5	0.0328	
36	36 13C-1,2,3,4-TCDD	1.77e6	0.80	NO	1.00	10.039	25.350	25.38	1.000	1.000	199.22	100	0.153	
37	37 13C-1,2,3,4-TCDF	2.53e6	0.78	NO	1.00	10.039	23.560	23.59	1.000	1.000	199.22	100	0.225	
38	38 13C-1,2,3,4,6,9-HxCDF	1.58e6	0.51	NO	1.00	10.039	34.000	34.04	1.000	1.000	199.22	100	0.282	
39	39 Total Tetra-Dioxins				0.947	10.039	24.620		0.000		0.00000		0.0253	0.108
40	40 Total Penta-Dioxins				0.942	10.039	29.960		0.000		0.059491		0.0397	0.176
41	41 Total Hexa-Dioxins				0.915	10.039	33.635		0.000		1.7731		0.0653	1.77
42	42 Total Hepta-Dioxins				0.898	10.039	37.640		0.000		7.8837		0.0833	7.88
43	43 Total Tetra-Furans				0.787	10.039	23.610		0.000		0.21391		0.0379	0.214
44	44 1st Func. Penta-Furans				0.910	10.039	27.090		0.000		0.15722		0.00939	0.157
45	45 Total Penta-Furans				0.910	10.039	29.275		0.000		0.091086		0.0345	0.241
46	46 Total Hexa-Furans				0.922	10.039	33.555		0.000		0.71893		0.0377	0.762
47	47 Total Hepta-Furans				0.871	10.039	37.835		0.000		1.2705		0.0356	1.27

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-6a.qld

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Printed: Tuesday, May 19, 2020 12:54:09 PM Pacific Daylight Time

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_6, Date: 18-May-2020, Time: 17:53:49, ID: 2000950-06 PDI-156SC-A-04-05-200423 11.04, Description: PDI-156SC-A-04-05-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.79	6.468e3	7.678e3	4.899e2	5.483e2	0.89	YES	0.000e0	0.00000	0.10761	0.0401

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.90	3.330e3	5.914e3	2.016e2	3.709e2	0.54	NO	0.000e0	0.00000	0.074007	0.0397
2	Total Penta-Dioxins	29.39	3.998e3	7.194e3	1.689e2	2.913e2	0.58	NO	4.602e2	0.059491	0.059491	0.0397
3	1,2,3,7,8-PeCDD	31.17	4.416e3	4.129e3	1.859e2	2.029e2	0.92	YES	3.888e2	0.00000	0.042744	0.0397

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.05	5.330e4	4.295e4	2.822e3	2.223e3	1.27	NO	5.045e3	0.84766	0.84766	0.0653
2	Total Hexa-Dioxins	33.60	5.902e3	5.958e3	3.204e2	2.791e2	1.15	NO	5.995e2	0.10074	0.10074	0.0653
3	Total Hexa-Dioxins	33.86	2.678e4	2.685e4	1.945e3	1.614e3	1.20	NO	3.559e3	0.59801	0.59801	0.0653
4	1,2,3,4,7,8-HxCDD	34.62	8.066e3	7.451e3	4.970e2	4.045e2	1.23	NO	9.016e2	0.14510	0.14510	0.0587
5	1,2,3,7,8,9-HxCDD	34.90	1.006e4	6.110e3	2.713e2	2.207e2	1.23	NO	4.920e2	0.081606	0.081606	0.0680

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.36	1.280e5	1.228e5	1.005e4	9.658e3	1.04	NO	1.971e4	4.6168	4.6168	0.0833
2	1,2,3,4,6,7,8-HpCDD	38.40	8.958e4	9.404e4	6.975e3	6.972e3	1.00	NO	1.395e4	3.2669	3.2669	0.0833

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.95	2.941e3	4.048e3	2.121e2	3.001e2	0.71	NO	5.122e2	0.055216	0.055216	0.0379
2	Total Tetra-Furans	24.15	4.332e3	5.544e3	2.967e2	4.256e2	0.70	NO	7.223e2	0.077867	0.077867	0.0379
3	2,3,7,8-TCDF	25.14	4.203e3	6.441e3	3.288e2	4.210e2	0.78	NO	7.498e2	0.080829	0.080829	0.0379

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Name: 200518R2_6, Date: 18-May-2020, Time: 17:53:49, ID: 2000950-06 PDI-156SC-A-04-05-200423 11.04, Description: PDI-156SC-A-04-05-200423

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.22	1.688e4	9.422e3	9.782e2	6.556e2	1.49	NO	1.634e3	0.15722	0.15722	0.00939

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.84	7.209e3	5.476e3	6.082e2	5.313e2	1.14	YES	0.000e0	0.00000	0.096295	0.0345
2	1,2,3,7,8-PeCDF	29.84	8.419e3	6.546e3	5.716e2	3.918e2	1.46	NO	9.634e2	0.091086	0.091086	0.0337
3	2,3,4,7,8-PeCDF	30.85	5.121e3	5.334e3	2.847e2	2.489e2	1.14	YES	5.336e2	0.00000	0.043227	0.0332
4	Total Penta-Furans	30.88	4.495e3	1.820e3	8.083e1	4.267e1	1.89	YES	0.000e0	0.00000	0.010471	0.0345

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.48	4.545e3	5.099e3	2.707e2	2.216e2	1.22	NO	4.923e2	0.069804	0.069804	0.0377
2	Total Hexa-Furans	32.66	1.448e4	1.250e4	6.437e2	5.536e2	1.16	NO	1.197e3	0.16975	0.16975	0.0377
3	Total Hexa-Furans	33.21	1.707e4	1.467e4	8.522e2	7.241e2	1.18	NO	1.576e3	0.22348	0.22348	0.0377
4	1,2,3,4,7,8-HxCDF	33.67	9.144e3	7.778e3	4.378e2	3.719e2	1.18	NO	8.097e2	0.12248	0.12248	0.0363
5	1,2,3,6,7,8-HxCDF	33.79	4.058e3	4.095e3	2.442e2	1.782e2	1.37	NO	4.224e2	0.055080	0.055080	0.0346
6	2,3,4,6,7,8-HxCDF	34.37	5.090e3	2.891e3	2.128e2	1.368e2	1.56	YES	3.496e2	0.00000	0.043153	0.0374
7	1,2,3,7,8,9-HxCDF	35.26	5.516e3	4.106e3	1.757e2	1.552e2	1.13	NO	3.309e2	0.058007	0.058007	0.0511
8	Total Hexa-Furans	35.29	3.225e3	3.571e3	7.839e1	6.502e1	1.21	NO	1.434e2	0.020333	0.020333	0.0377

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	36.99	1.514e4	1.475e4	9.689e2	9.890e2	0.98	NO	1.958e3	0.39475	0.39475	0.0324
2	Total Hepta-Furans	37.58	2.200e4	2.487e4	1.736e3	1.598e3	1.09	NO	3.333e3	0.79848	0.79848	0.0356
3	1,2,3,4,7,8,9-HpCDF	39.01	3.346e3	2.642e3	1.570e2	1.472e2	1.07	NO	3.043e2	0.077313	0.077313	0.0347

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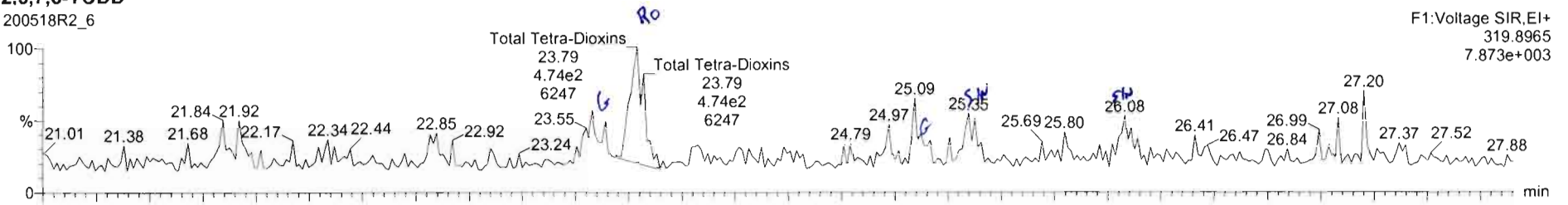
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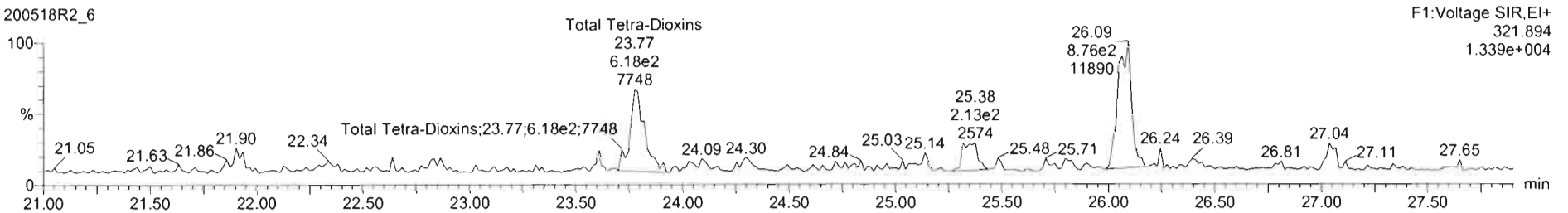
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2,3,7,8-TCDD

200518R2_6

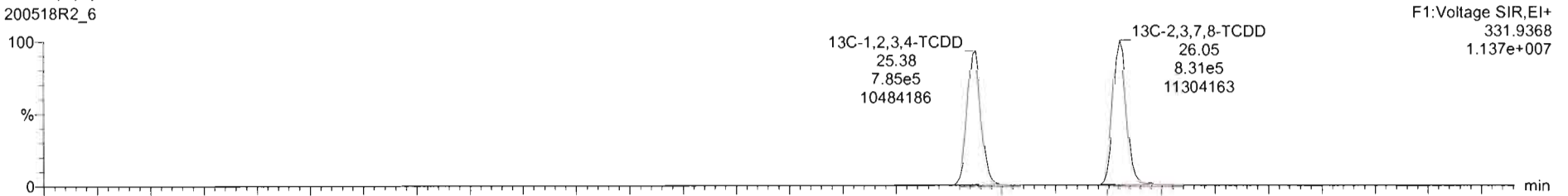


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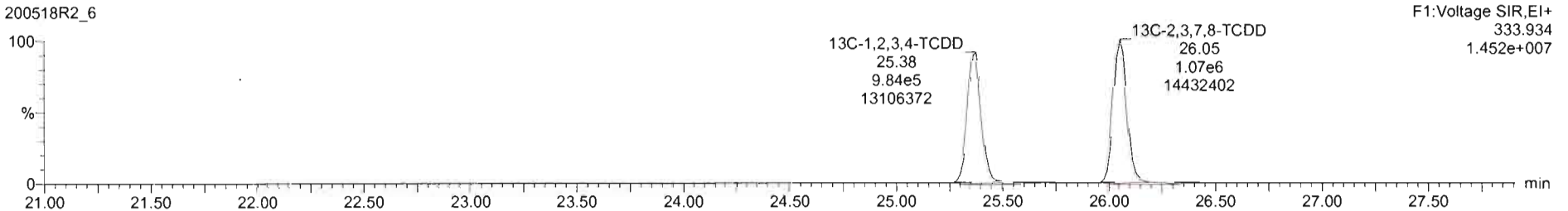


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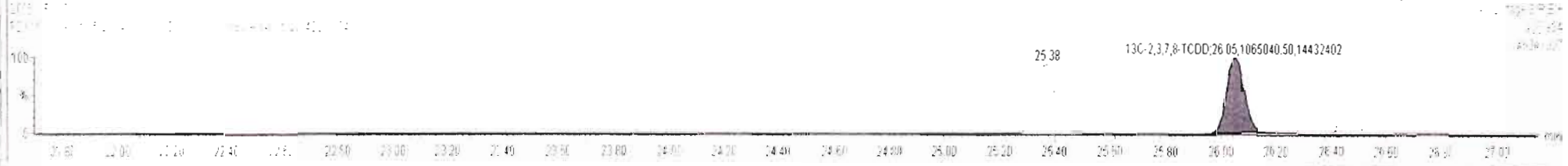
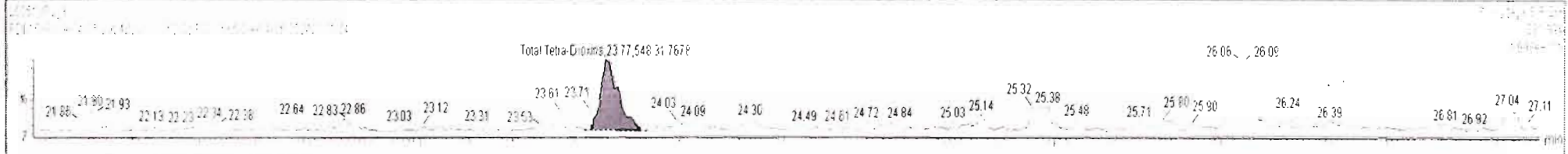
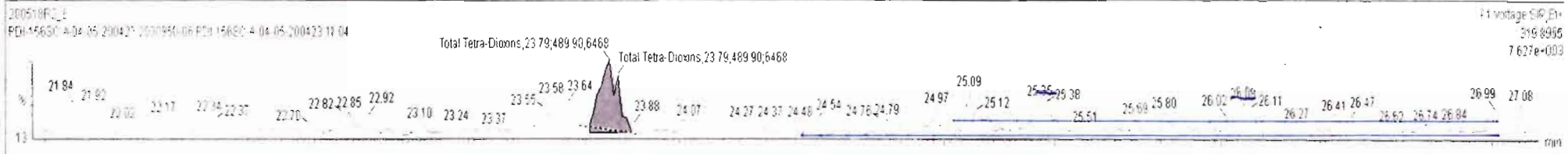


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#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R.	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.039	24.62		0.000		NO	0.0000		0.0253	0.1076
40	Total Penta-Dioxins				0.9425	10.039	29.96		0.000		NO	0.0000		0.0194	0.05329
41	Total Hexa-Dioxins				0.9145	10.039	33.63		0.000		NO	1.535		0.0653	1.602
42	Total Hepta-Dioxins				0.8979	10.039	37.64		0.000		NO	7.660		0.0823	7.660

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	39 Total Tetra-Dioxins	24.62	23.79	4.899e2	5.463e2	0.770	0.89	YES	0.10761	0.00000



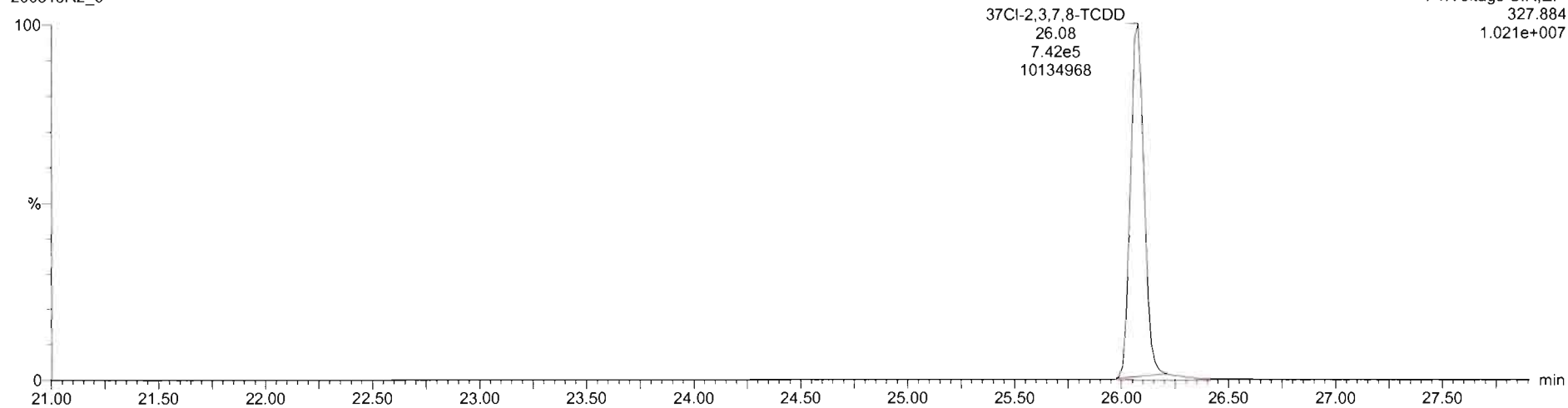
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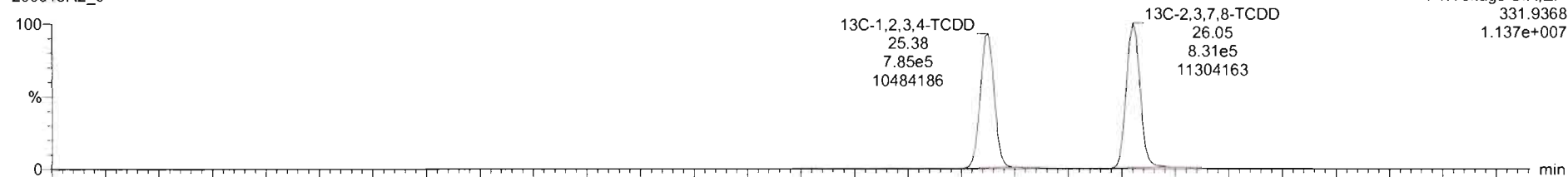
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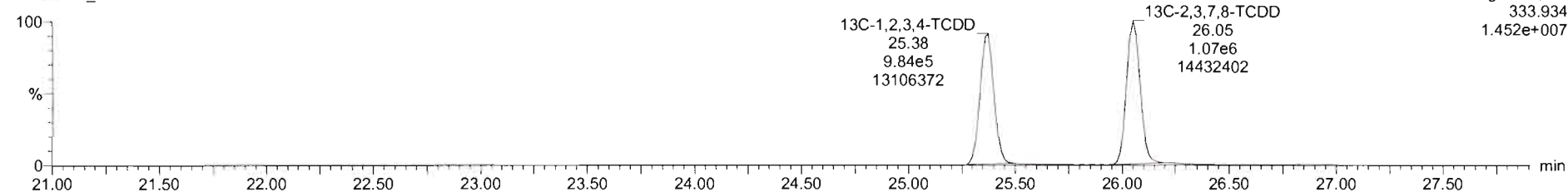


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200518R2_6



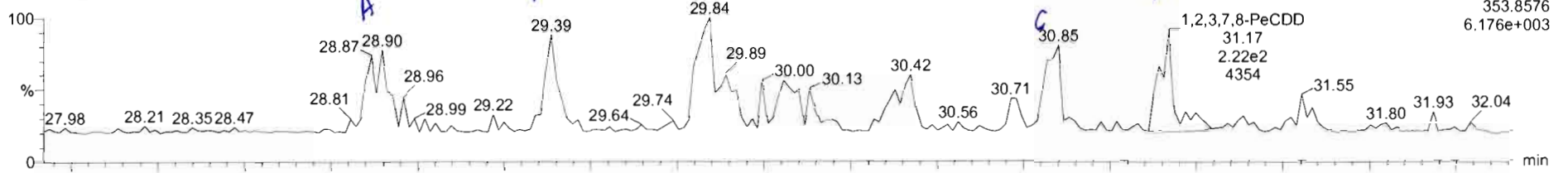
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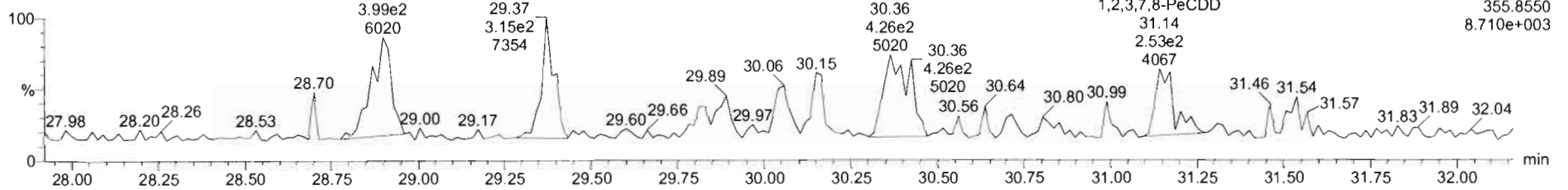
1,2,3,7,8-PeCDD

200518R2_6



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6.176e+003

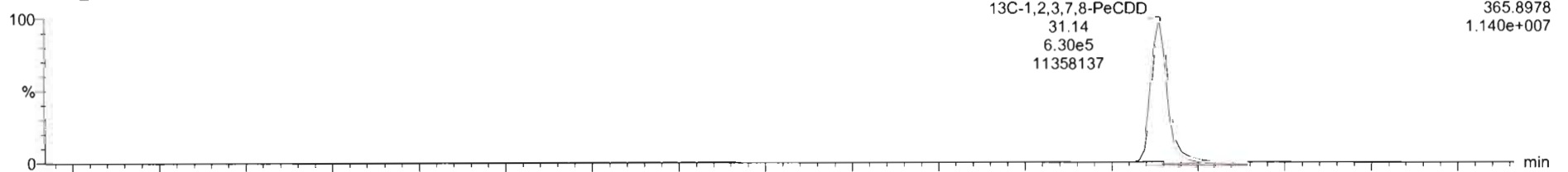
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F2:Voltage SIR,EI+
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8.710e+003

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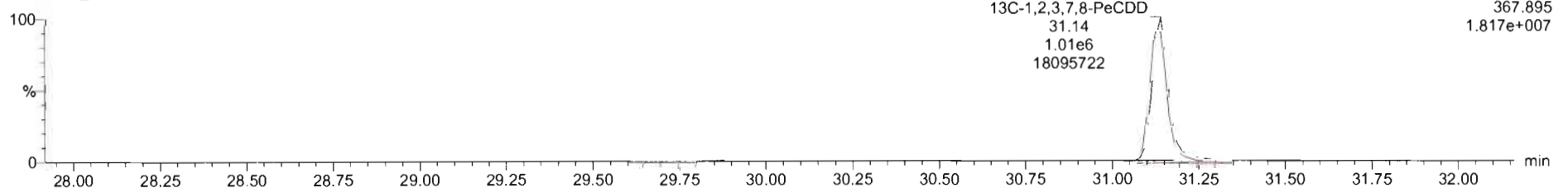
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F2:Voltage SIR,EI+
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1.140e+007

200518R2_6

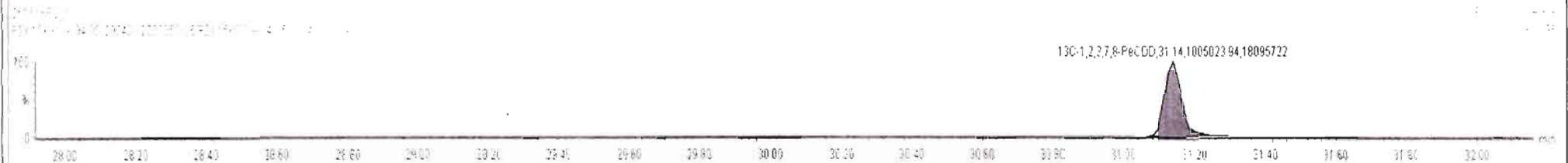
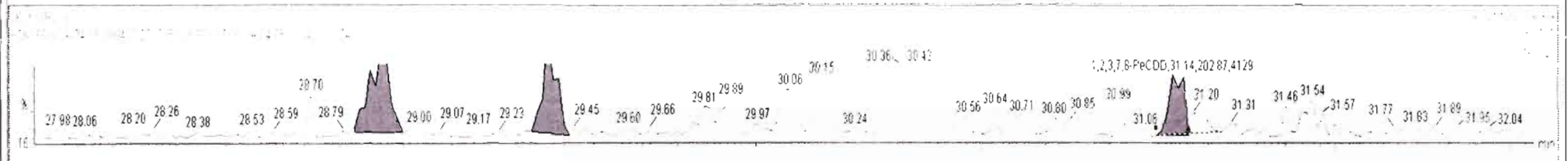
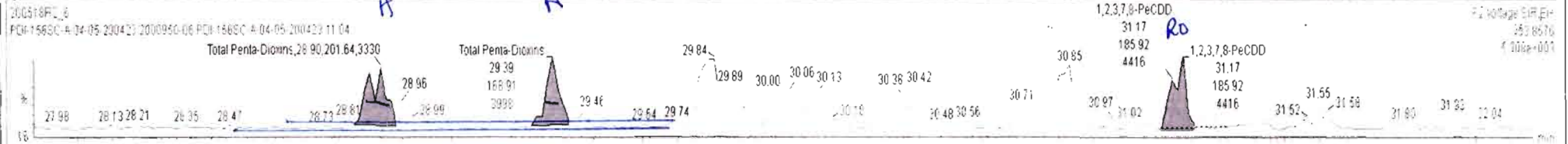


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1.01e6
18095722

F2:Voltage SIR,EI+
367.895
1.817e+007

#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.039	24.62		0.000		NO	0.0000		0.0253	0.1076
40	Total Penta-Dioxins				0.9425	10.039	29.96		0.000		NO	0.05949		0.0397	0.1762
41	Total Hexa-Dioxins				0.9145	10.039	33.63		0.000		NO	1.535		0.0653	1.602
42	Total Hepta-Dioxins				0.8979	10.039	37.64		0.000		NO	7.660		0.0833	7.660

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	n/y	EMPC	Conc.
1	40 Total Penta-Dioxins	29.55	28.90	2.016e2	3.709e2	0.630	0.54	NO	0.074007	0.00000
2	40 Total Penta-Dioxins	29.55	29.39	1.689e2	2.913e2	0.630	0.58	NO	0.059491	0.059491
3	2 1,2,3,7,8-PeCDD	31.16	31.17	1.859e2	2.029e2	0.630	0.82	YES	0.042744	0.00000



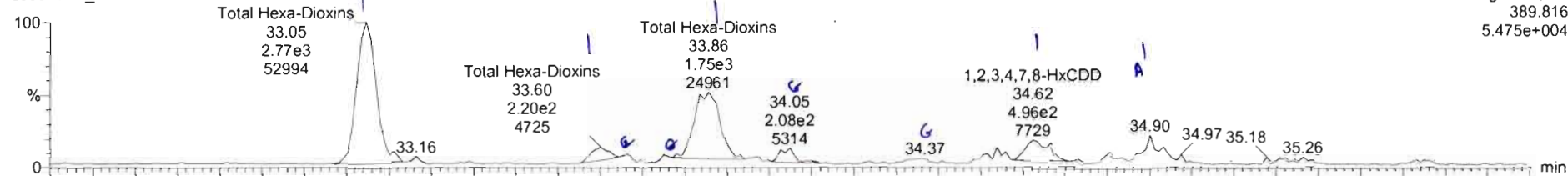
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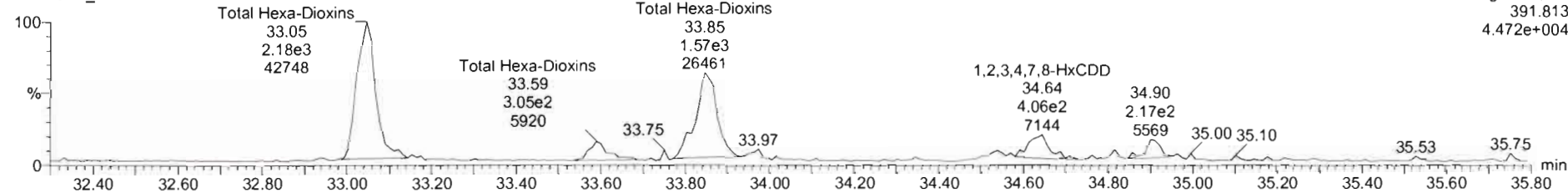
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1,2,3,4,7,8-HxCDD

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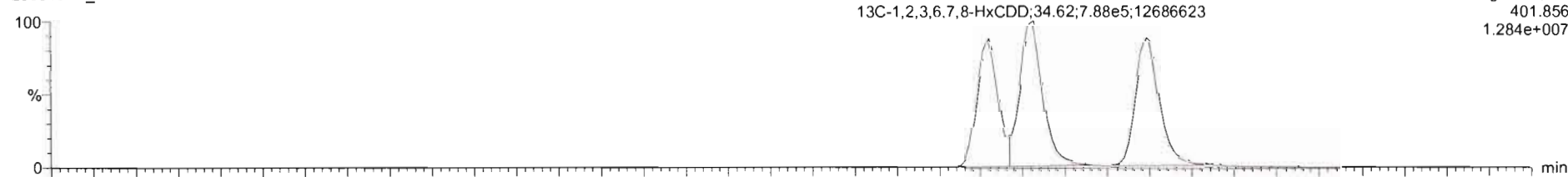


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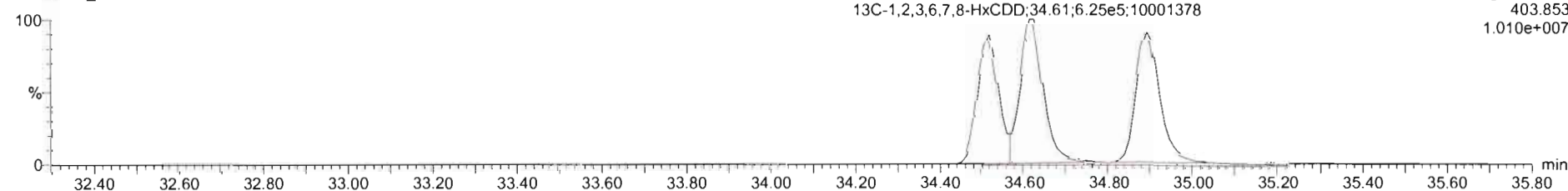


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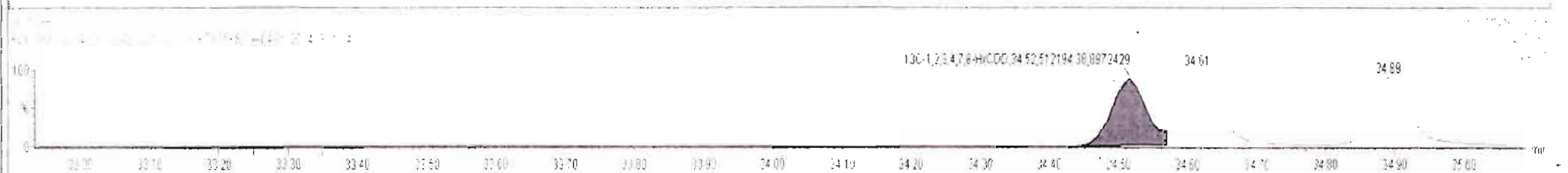
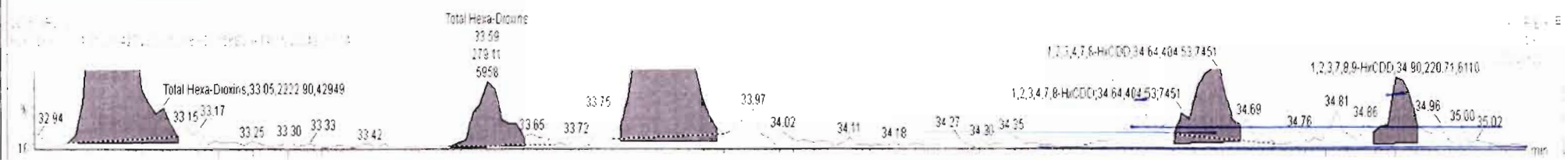
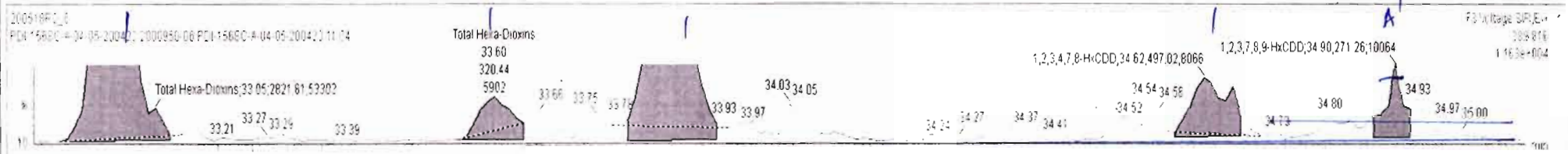


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#	Name	Resp	RA	nly	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.039	24.62		0.000		NO	0.0000		0.0253	0.1076
40	Total Penta-Dioxins				0.9425	10.039	29.96		0.000		NO	0.05949		0.0397	0.1762
41	Total Hexa-Dioxins				0.9145	10.039	33.63		0.000		NO	1.773		0.0653	1.773
42	Total Hepta-Dioxins				0.8979	10.039	37.64		0.000		NO	7.660		0.0633	7.660

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc.
1	41 Total Hexa-Dioxins	33.63	33.05	2.822e3	2.223e3	1.240	1.27	NO	0.84786	0.84786
2	41 Total Hexa-Dioxins	33.63	33.60	3.204e2	2.791e2	1.240	1.15	NO	0.10074	0.10074
3	41 Total Hexa-Dioxins	33.63	33.86	1.945e3	1.614e3	1.240	1.20	NO	0.59801	0.59801
4	3 1,2,3,4,7,8-HxCDD	34.53	34.62	4.970e2	4.045e2	1.240	1.23	NO	0.14510	0.14510
5	5 1,2,3,7,8,9-HxCDD	34.50	34.90	2.713e2	2.207e2	1.240	1.23	NO	0.081606	0.081606



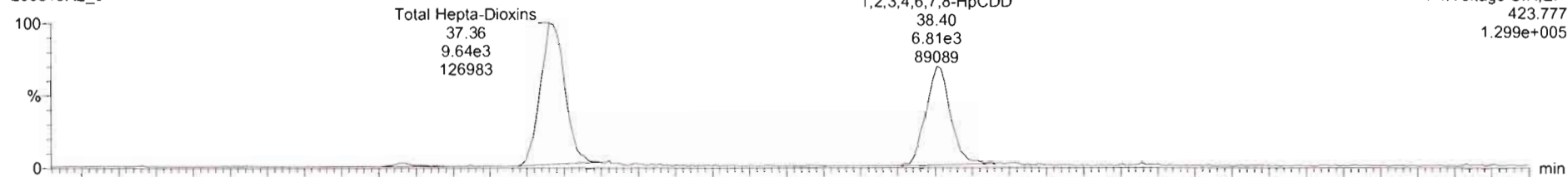
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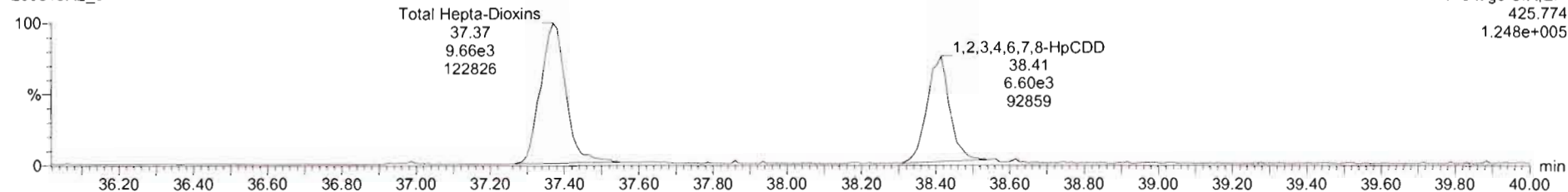
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1,2,3,4,6,7,8-HpCDD

200518R2_6

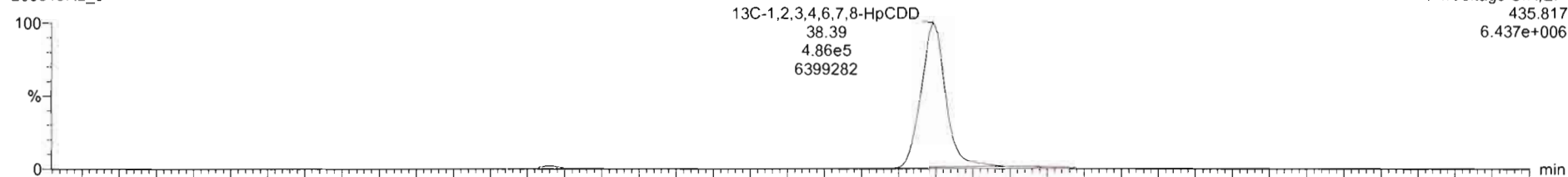


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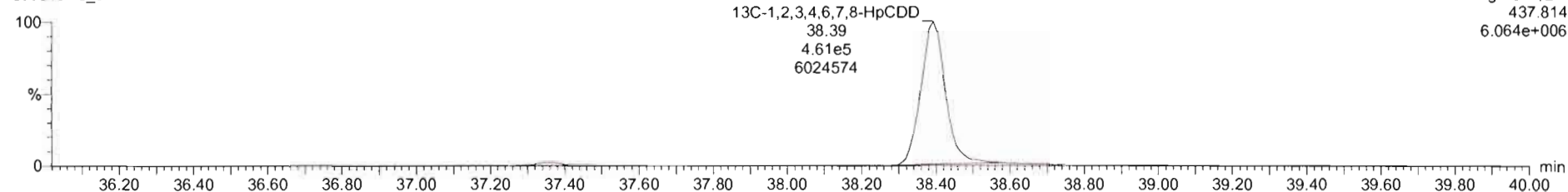


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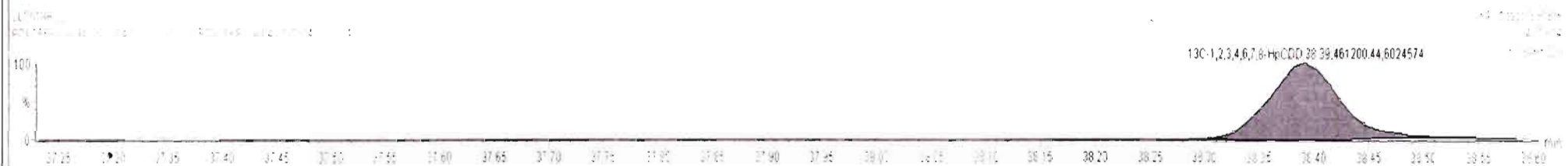
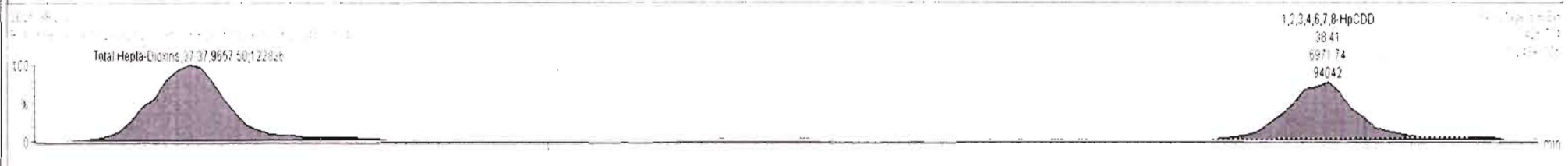


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#	Name	Resp	RA	n/y	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.039	24.62		0.000		NO	0.0000		0.0253	0.1076
40	Total Penta-Dioxins				0.9425	10.039	29.96		0.000		NO	0.05949		0.0397	0.1762
41	Total Hexa-Dioxins				0.9145	10.039	33.63		0.000		NO	1.773		0.0653	1.773
42	Total Hepta-Dioxins				0.8979	10.039	37.64		0.000		NO	7.884		0.0833	7.884

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	n/y	EMPC	Conc.
1	42 Total Hepta-Dioxins	37.64	37.36	1.005e4	9.658e3	1.040	1.04	NO	4.6168	4.6168
2	6 1,2,3,4,6,7,8-HpCDD	38.40	38.40	6.975e3	6.972e3	1.040	1.00	NO	3.2669	3.2669

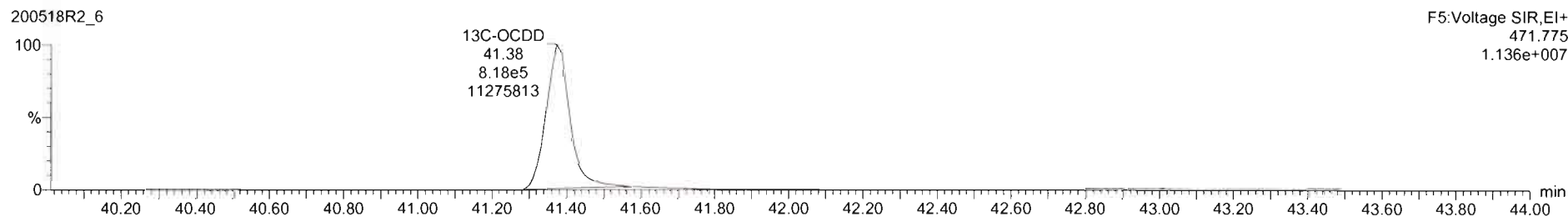
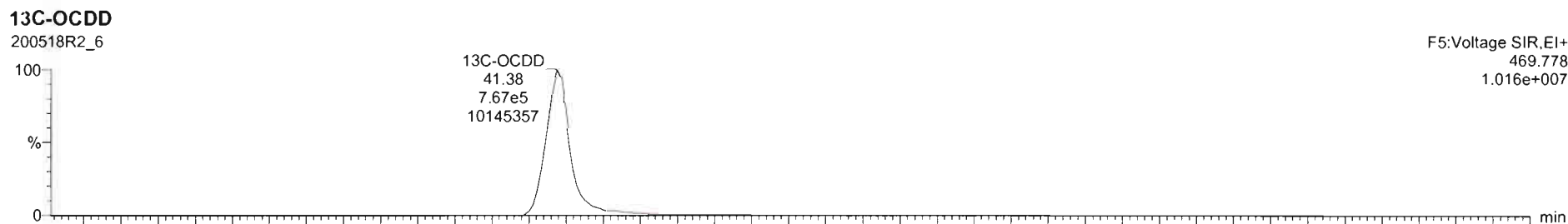
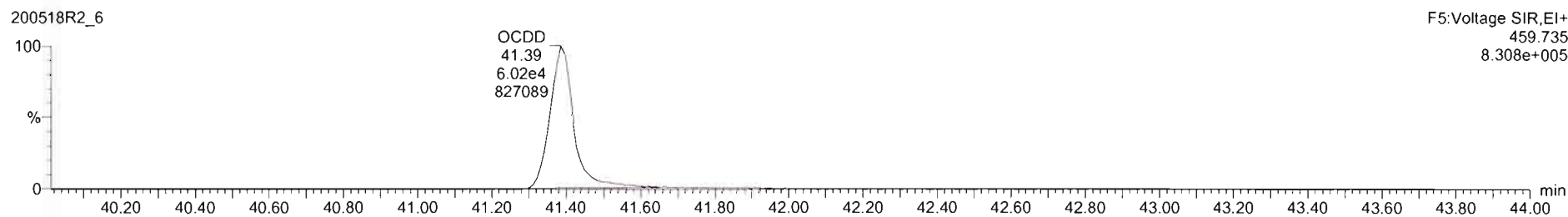
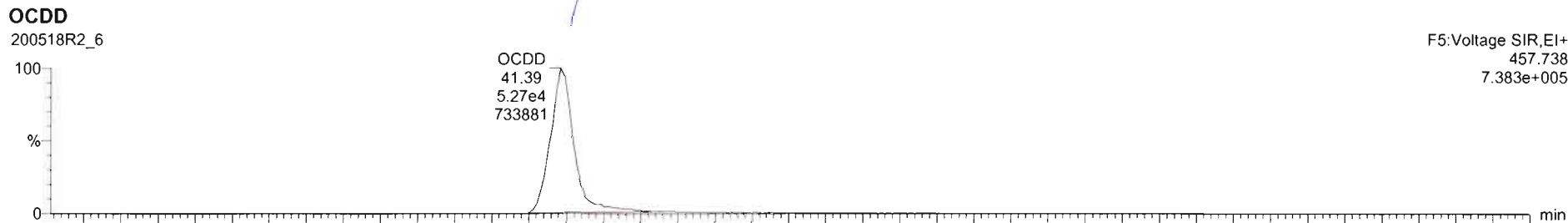


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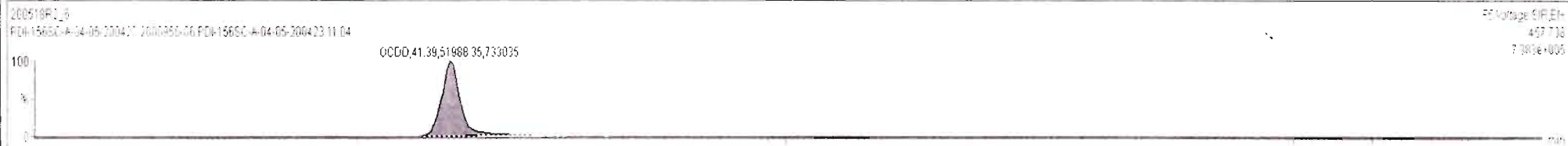
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200518R2_6 - 2000950-06 PDI-156SC-A-04-05-200423 11.04 - PDI-156SC-A-04-05-200423

#	Name	Resp	RA	nly	RRF	wt/Vol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
7	OCDD	1.11e5	0.88	NO	0.9335	10.039	41.38	41.38	1.000	1.000	NO	30.43		0.107	30.43
8	2,3,7,8-TCDF	7.15e2	1.04	YES	0.7871	10.039	25.15	25.14	1.001	1.001	NO	0.07721		0.0379	0.06708
9	1,2,3,7,8-PeCDF	9.39e2	1.26	YES	0.9102	10.039	29.85	29.84	1.001	1.001	NO	0.08674		0.0337	0.03141
10	2,3,4,7,8-PeCDF	7.37e2	1.06	YES	0.9664	10.039	30.87	30.85	1.001	1.000	NO	0.06799		0.0332	0.05748

#	Name	Pred.RT	RT	m1 Reso	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1										



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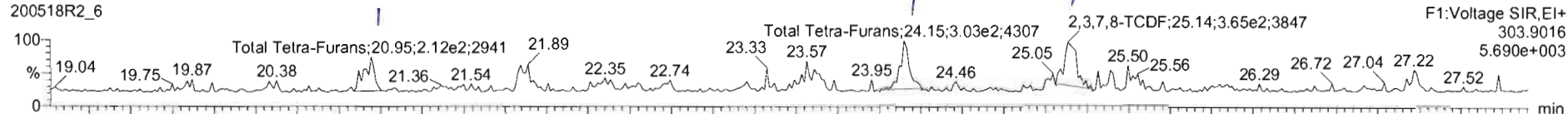
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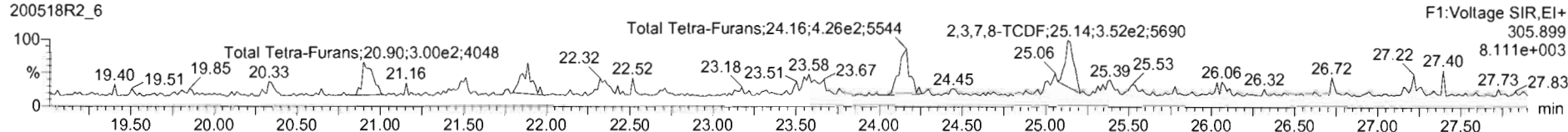
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2,3,7,8-TCDF

200518R2_6

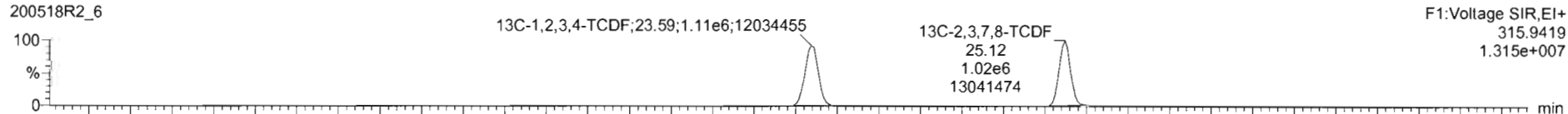


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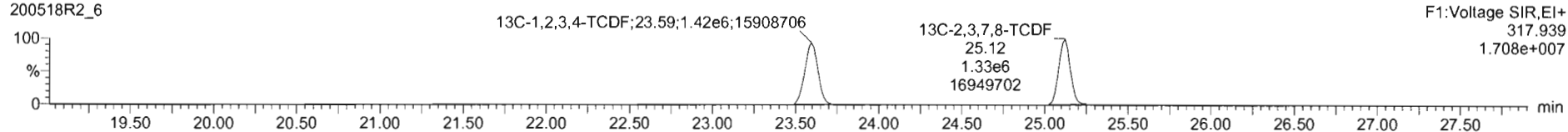


13C-2,3,7,8-TCDF

200518R2_6

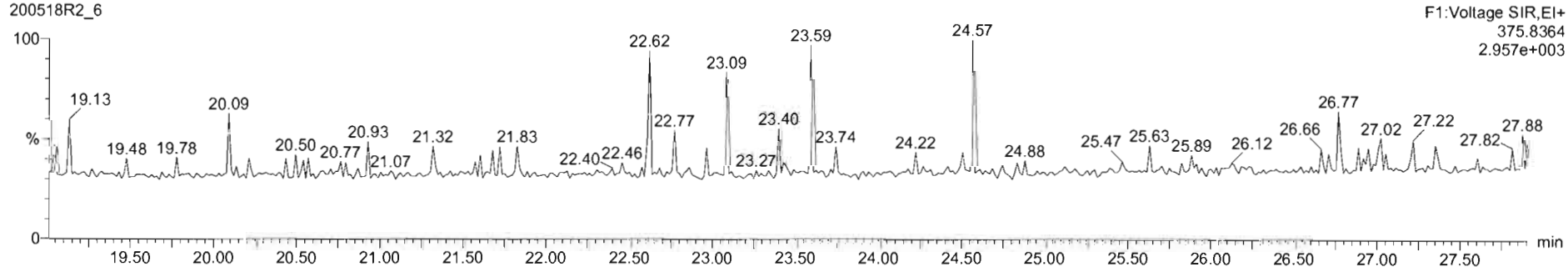


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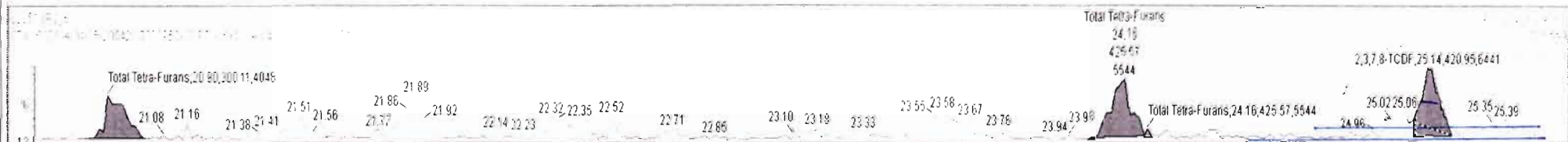
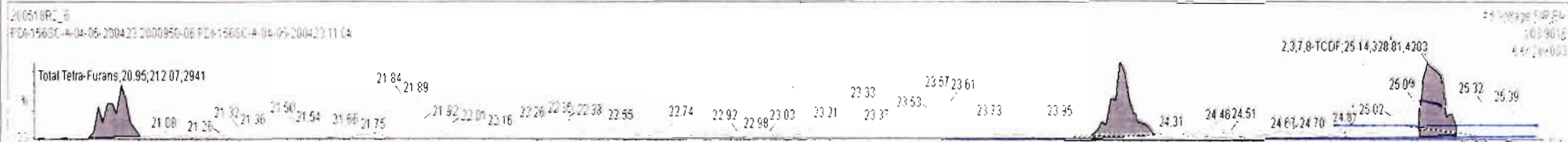
DPE1

200518R2_6



#	Name	Resp	RA	n/y	RRF	wtVol	Pred.RT	RT	Pred.R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7671	10.039	23.61		0.000		NO	0.2139		0.0379	0.2139
44	1st Func. Penta-Furanc				0.9102	10.039	27.09		0.000		NO	0.1572		0.00939	0.1572
45	Total Penta-Furans				0.9102	10.039	29.27		0.000		NO	0.0000		0.0144	0.2270
46	Total Hexa-Furans				0.9217	10.039	33.56		0.000		NO	0.5454		0.0377	0.6456

#	Name	Pred.RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	EMPC	Conc.
1	43 Total Tetra-Furans	23.61	20.95	2.121e2	3.001e2	0.770	0.71	NO	0.055216	0.055216
2	43 Total Tetra-Furans	23.61	24.15	2.967e2	4.256e2	0.770	0.70	NO	0.077867	0.077867
3	8 2,3,7,8-TCDF	25.15	25.14	3.288e2	4.210e2	0.770	0.78	NO	0.080829	0.080829



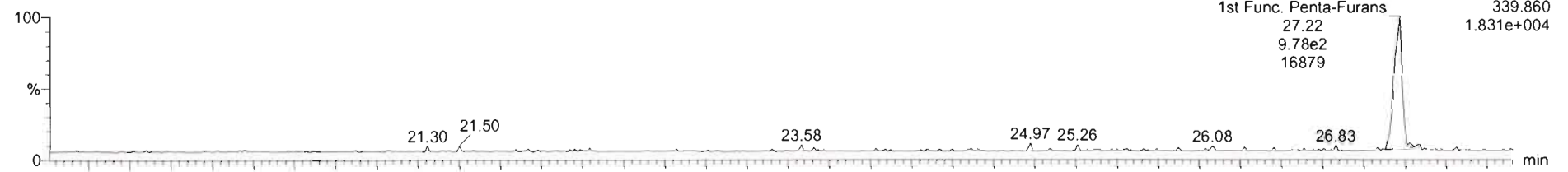
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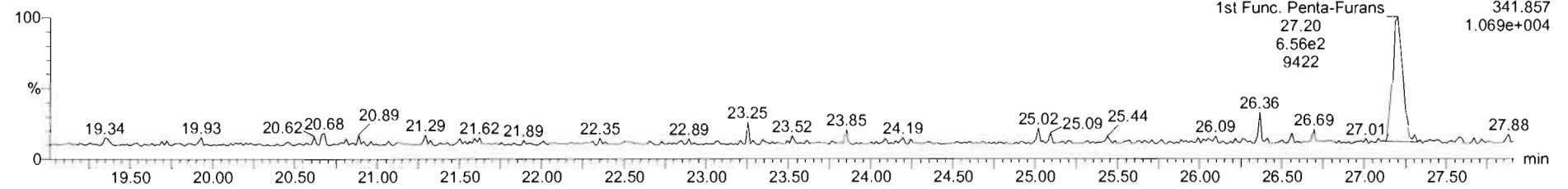
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1st Func. Penta-Furans

200518R2_6

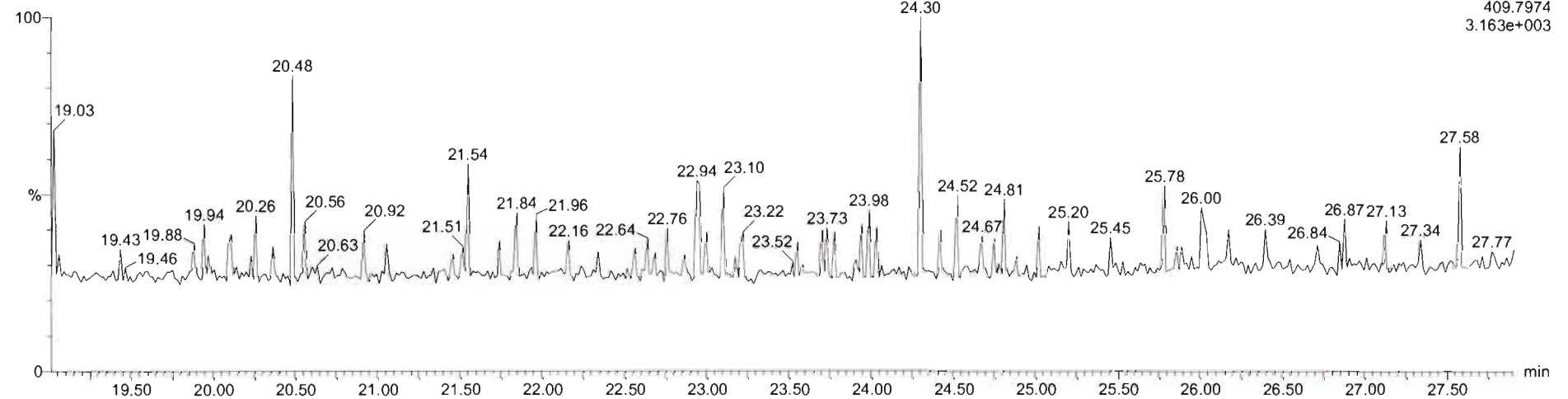


200518R2_6



DPE6

200518R2_6



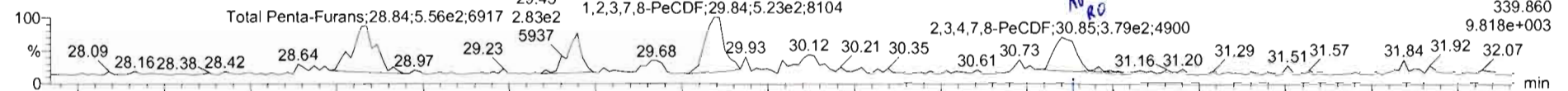
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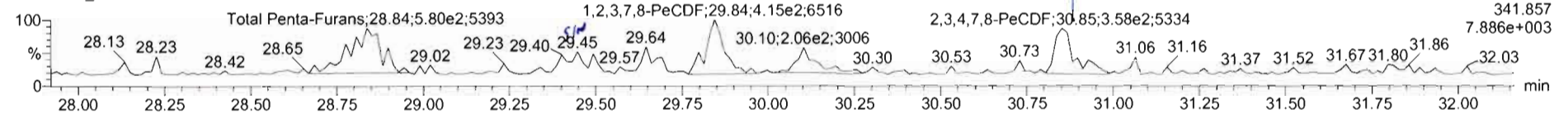
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1,2,3,7,8-PeCDF

200518R2_6

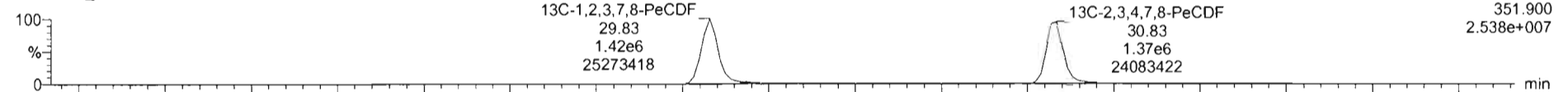


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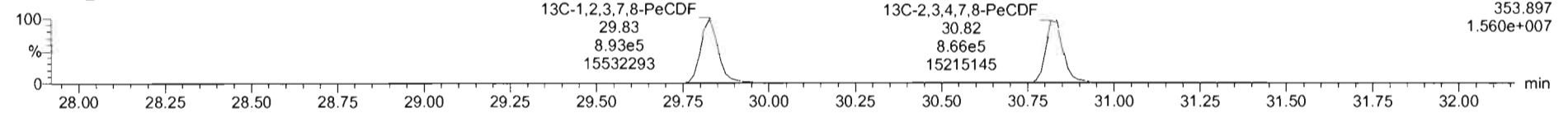


13C-1,2,3,7,8-PeCDF

200518R2_6

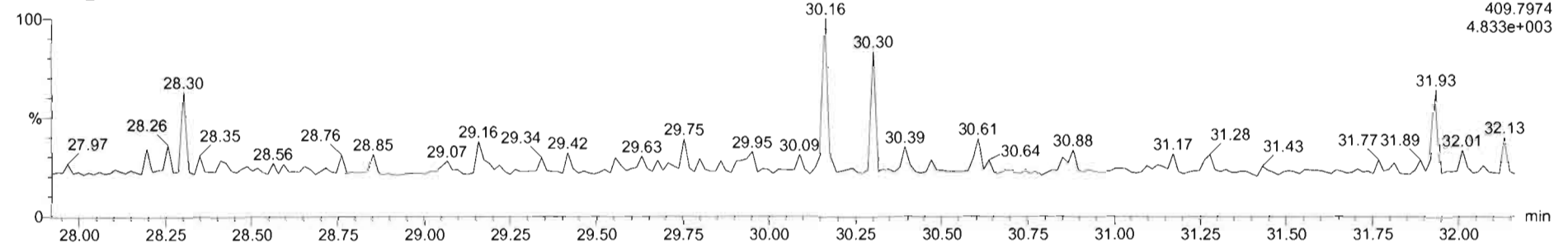


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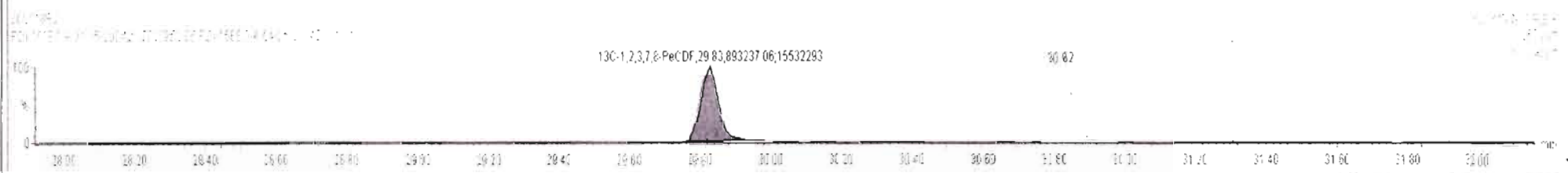
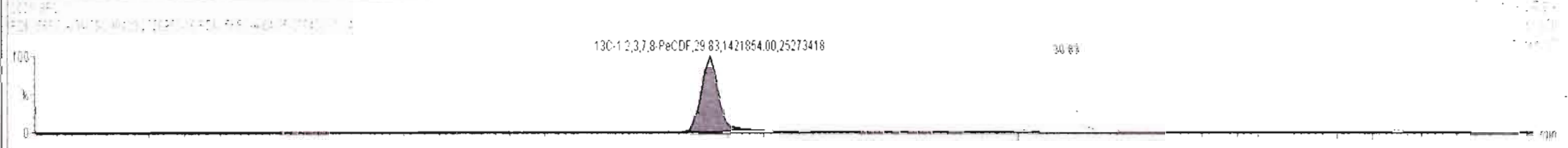
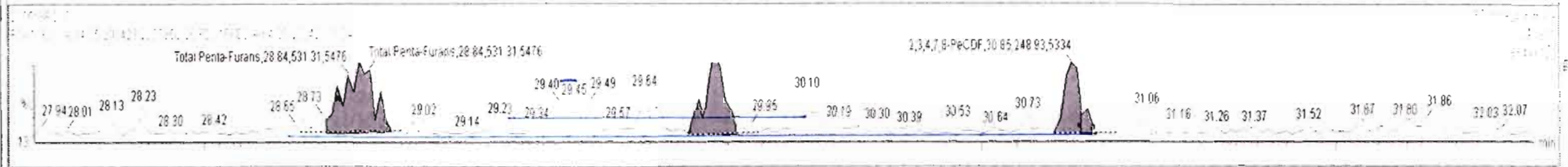
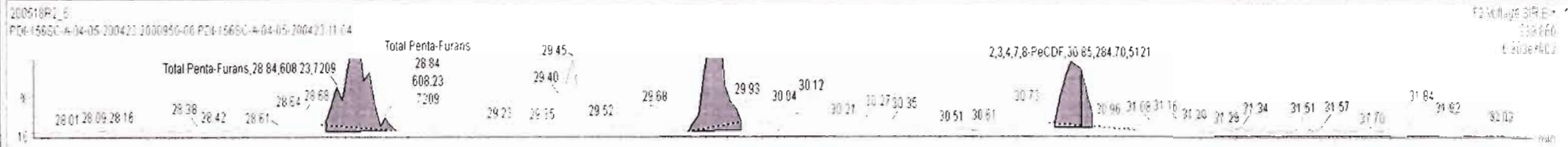
DPE2

200518R2_6



#	Name	Resp	RA	n/y	RRF	wt/vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	BMPC
45	Total Penta-Furans				0.9102	10.039	29.27		0.000		NO	0.09109		0.0345	0.2411
46	Total Hexa-Furans				0.9217	10.039	32.56		0.000		NO	0.5454		0.0377	0.6495
47	Total Hepta-Furans				0.8712	10.039	37.83		0.000		NO	1.207		0.0356	1.207
48	PFK1														

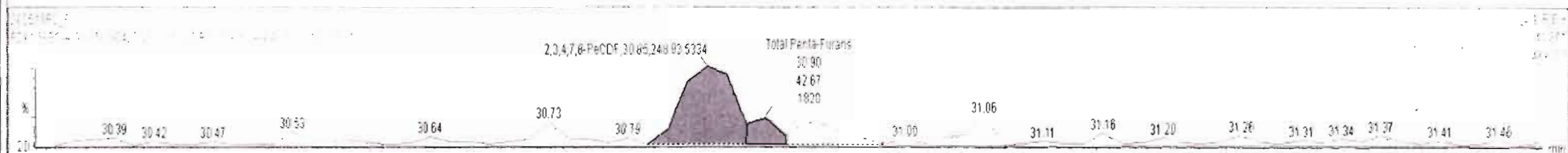
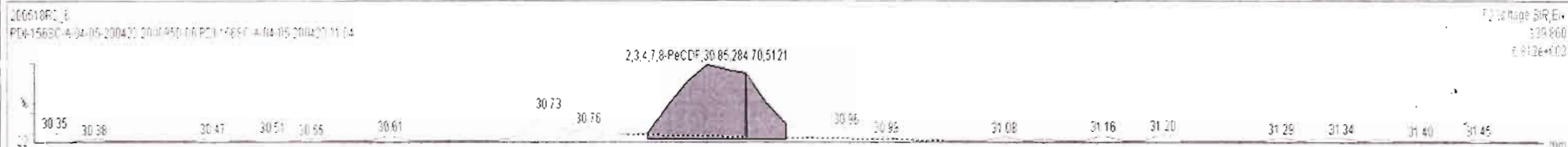
#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	n/y	BMPC	Conc.
1	Total Penta-Furans	29.27	28.84	6.082e2	5.313e2	1.550	1.14	YES	0.096295	0.00000
2	1,2,3,7,8-PeCDF	29.85	29.84	5.716e2	3.918e2	1.550	1.46	NO	0.091086	0.091086
3	10,2,3,4,7,8-PeCDF	30.85	30.85	2.847e2	2.489e2	1.550	1.14	YES	0.043227	0.00000
4	Total Penta-Furans	29.27	30.86	8.083e1	4.267e1	1.550	1.89	YES	0.010471	0.00000



200518R2_6 - 2000950-06 PDI-156SC-A-04-05-200423 11.04 - PDI-156SC-A-04-05-200423

#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc	%Rec	DL	EMPC
45	Total Penta-Furans				0.9102	10.039	29.27		0.000		NO	0.09109		0.0345	0.2411
46	Total Hexa-Furans				0.9217	10.039	32.56		0.000		NO	0.5454		0.0377	0.6495
47	Total Hepta-Furans				0.8712	10.039	37.83		0.000		NO	1.207		0.0356	1.207
48	PK1														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1 st Ratio (Pred)	RA	nly	EMPC	Conc
1	45 Total Penta-Furans	29.27	29.84	6.082e2	5.313e2	1.550	1.14	YES	0.056295	0.00000
2	9 1,2,3,7,8-PeCDF	29.85	29.64	5.715e2	3.918e2	1.550	1.46	NO	0.091086	0.091086
3	10 2,3,4,7,8-PeCDF	30.85	30.85	2.847e2	2.489e2	1.550	1.14	YES	0.043227	0.00000
4	45 Total Penta-Furans	29.27	30.80	8.083e1	4.267e1	1.550	1.89	YES	0.010471	0.00000

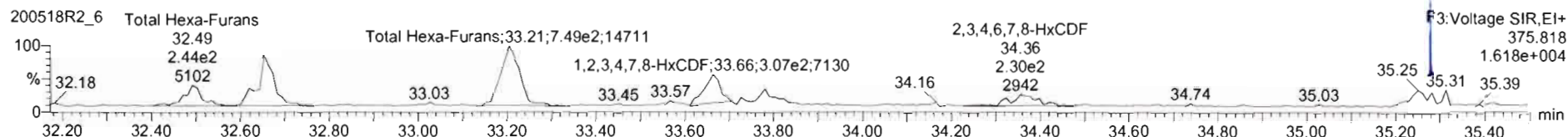
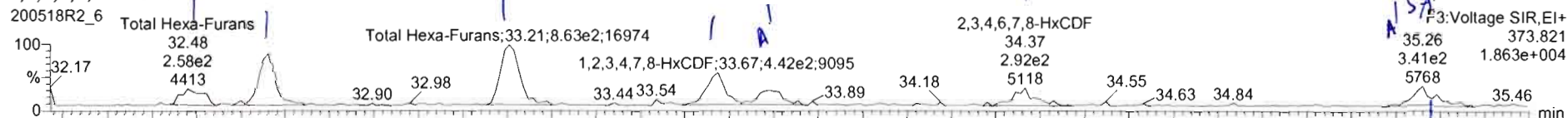


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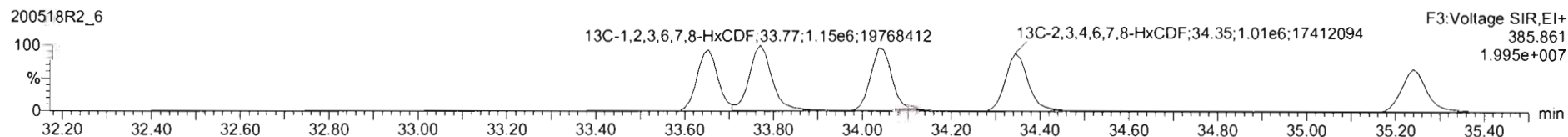
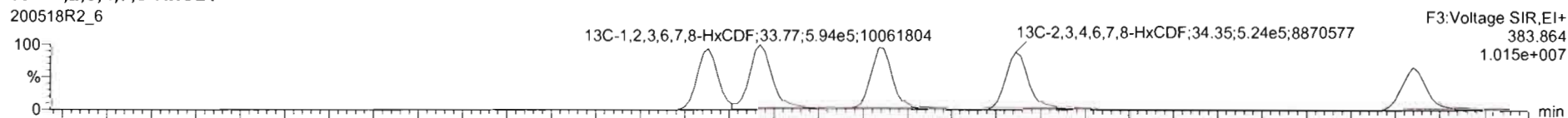
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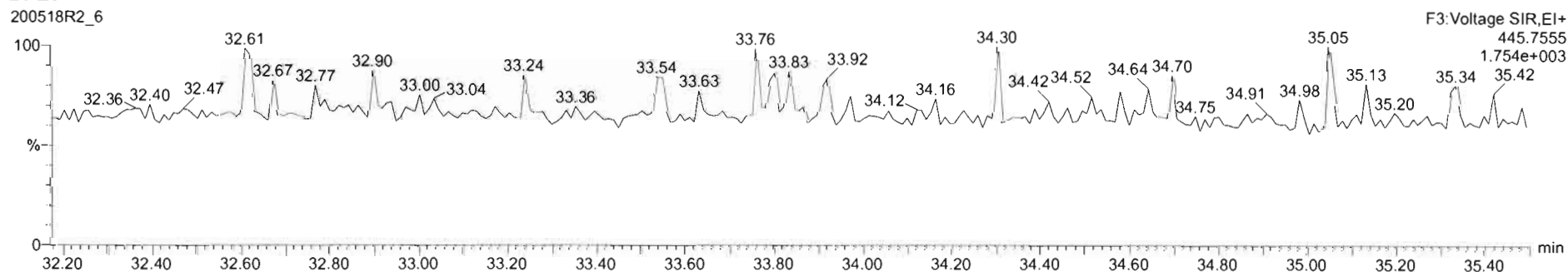
1,2,3,4,7,8-HxCDF



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

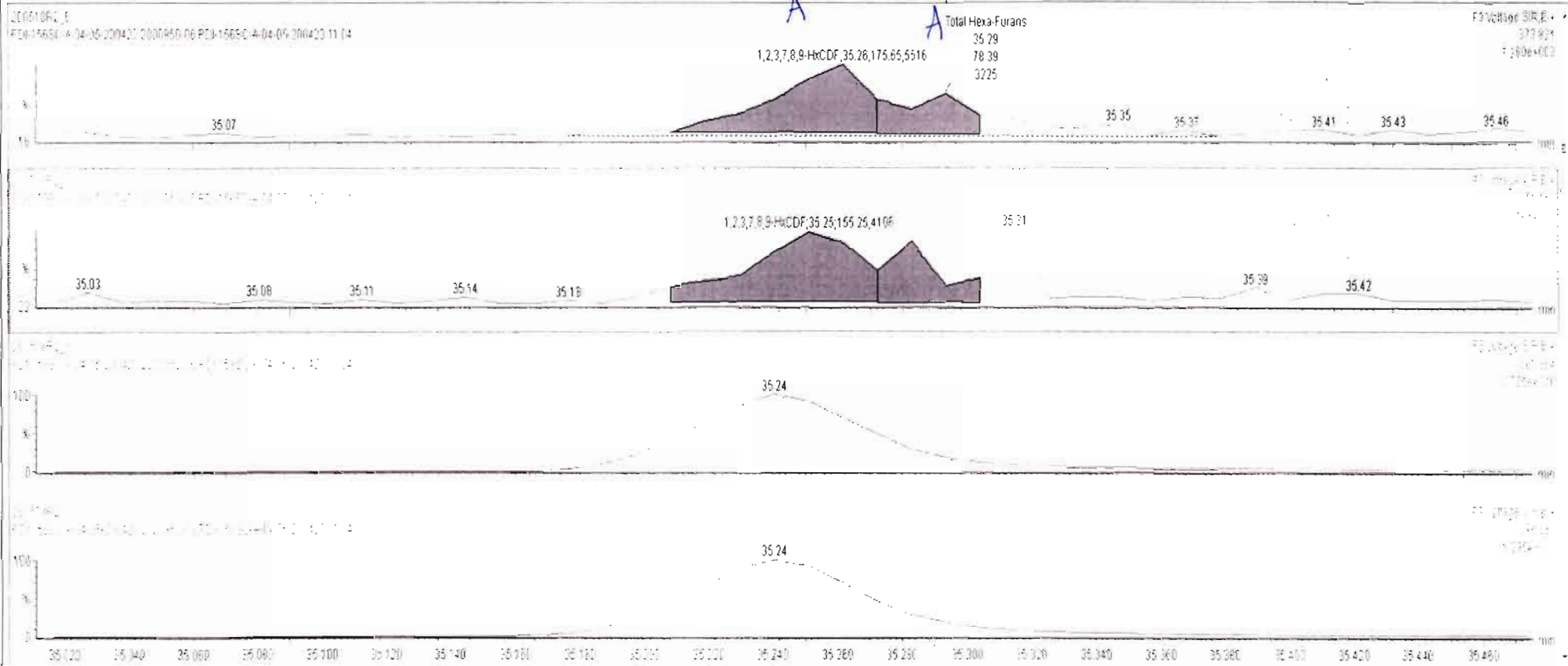


DPE3



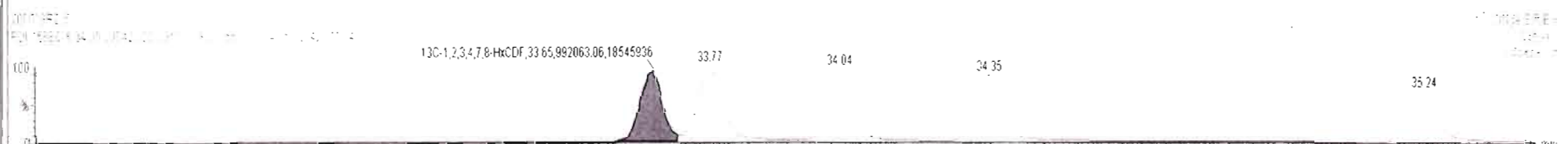
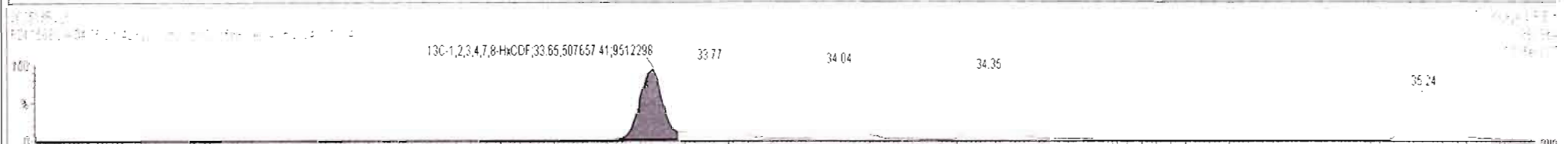
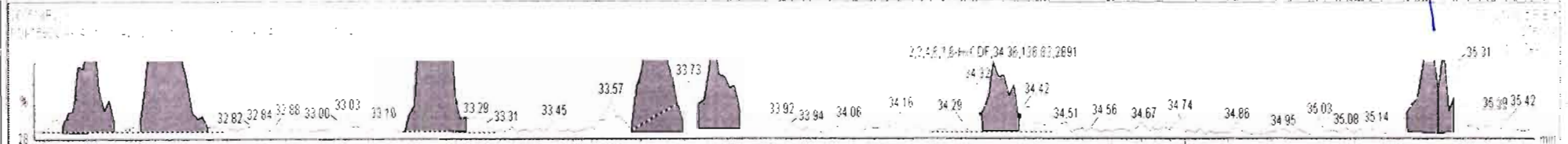
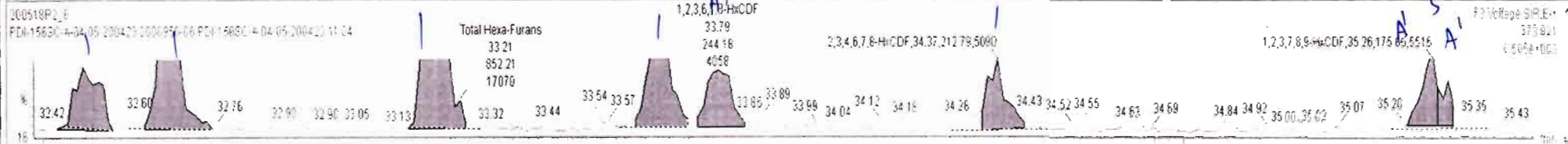
#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9102	10.039	29.27		0.000		NO	0.05109		0.0345	0.2411
46	Total Hexa-Furans				0.9217	10.039	33.56		0.000		NO	0.06368		0.0377	0.7070
47	Total Hepta-Furans				0.8712	10.039	37.63		0.000		NO	1.207		0.0356	1.207
48	PFK1														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	* Ratio (Pred)	RA	nly	EMPC	Conc.
1	46 Total Hexa-Furans	33.56	32.46	2.707e2	2.216e2	1.240	1.22	NO	0.069604	0.069604
2	46 Total Hexa-Furans	33.56	32.66	6.437e2	5.536e2	1.240	1.16	NO	0.16975	0.16975
3	46 Total Hexa-Furans	33.56	33.21	8.527e2	7.241e2	1.240	1.18	NO	0.22346	0.22346
4	11 1,2,3,4,7,8-HxCDF	33.65	33.67	4.378e2	3.719e2	1.240	1.18	NO	0.12246	0.12246
5	13 2,3,4,6,7,8-HxCDF	34.38	34.37	2.126e2	1.368e2	1.240	1.56	YES	0.043153	0.00000
6	14 1,2,3,7,8,9-HxCDF	35.24	35.26	1.757e2	1.552e2	1.240	1.13	NO	0.058007	0.058007
7	46 Total Hexa-Furans	33.56	35.29	7.639e1	6.502e1	1.240	1.21	NO	0.020333	0.020333



#	Name	Resp	RA	nly	RRF	wt/Vol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9102	10.039	29.27		0.000		NO	0.09109		0.0345	0.2411
46	Total Hexa-Furans				0.9217	10.039	33.56		0.000		NO	0.7189		0.0377	0.7621
47	Total Hepta-Furans				0.8712	10.039	37.83		0.000		NO	1.207		0.0356	1.207
48	PFK1														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1* Ratio (Pred)	RA	nly	EMPC	Conc.
1	Total Hexa-Furans	33.56	32.48	2.707e2	2.216e2	1.240	1.22	NO	0.069804	0.069804
2	Total Hexa-Furans	33.56	32.86	6.437e2	5.536e2	1.240	1.16	NO	0.16975	0.16975
3	Total Hexa-Furans	33.56	33.21	8.522e2	7.241e2	1.240	1.18	NO	0.22348	0.22348
4	1,2,3,4,7,8-HxCDF	33.65	33.67	4.378e2	3.719e2	1.240	1.18	NO	0.12248	0.12248
5	1,2,3,6,7,8-HxCDF	33.78	33.79	2.442e2	1.782e2	1.240	1.37	NO	0.055080	0.055080
6	2,3,4,6,7,8-HxCDF	34.38	34.37	2.128e2	1.368e2	1.240	1.56	YES	0.043153	0.00000
7	1,2,3,7,8,9-HxCDF	35.24	35.26	1.757e2	1.552e2	1.240	1.13	NO	0.058007	0.058007
8	Total Hexa-Furans	33.56	35.29	7.839e1	6.502e1	1.240	1.21	NO	0.020333	0.020333

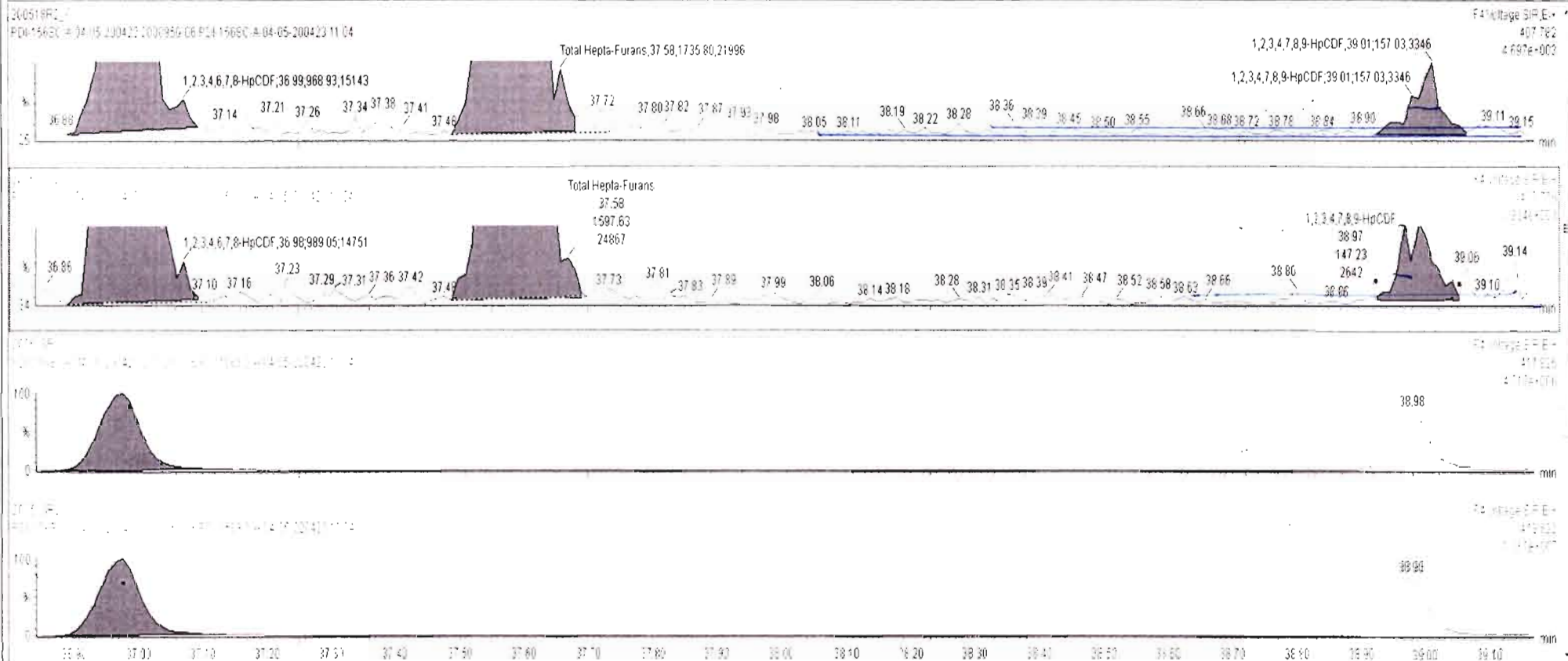




200518R2_6 - 2000950-06 PDI-156SC-A-04-05-200423 11.04 - PDI-156SC-A-04-05-200423

#	Name	Resp	RA	nly	RRF	wtVol	Pred RT	RT	Pred R...	RRT	RRT Fail	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9102	10.039	29.27		0.000		NO	0.09109		0.0345	0.2411
46	Total Hexa-Furans				0.9217	10.039	33.56		0.000		NO	0.7189		0.0377	0.7621
47	Total Hepta-Furans				0.8712	10.039	37.83		0.000		NO	1.271		0.0356	1.271
48	PFK1														

#	Name	Pred RT	RT	m1 Resp	m2 Resp	1° Ratio (Pred)	RA	nly	EMPC	Conc.
1	1,2,3,4,6,7,8-HpCDF	37.01	36.90	9.689e2	9.690e2	1.040	0.98	NO	0.39475	0.39475
2	Total Hepta-Furans	37.83	37.58	1.736e3	1.596e3	1.040	1.09	NO	0.79848	0.79848
3	1,2,3,4,7,8,9-HpCDF	38.98	39.01	1.570e2	1.472e2	1.040	1.07	NO	0.077313	0.077313



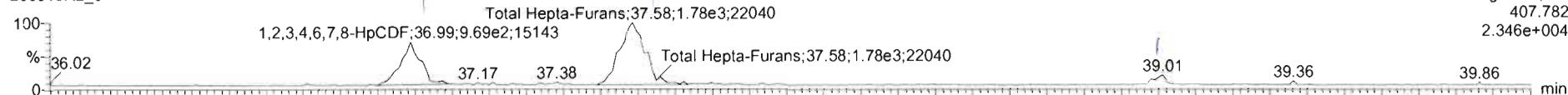
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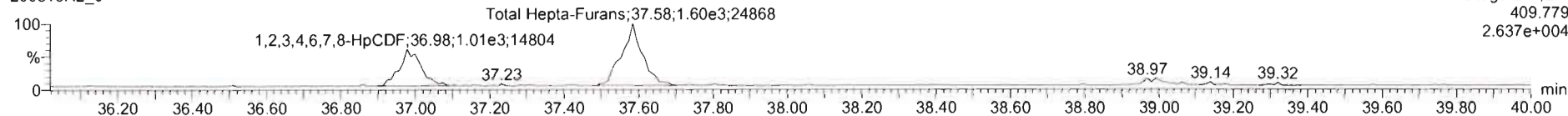
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1,2,3,4,6,7,8-HpCDF

200518R2_6

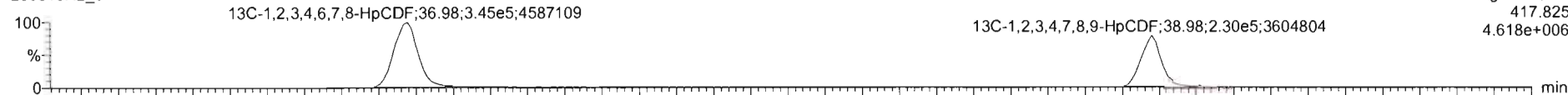


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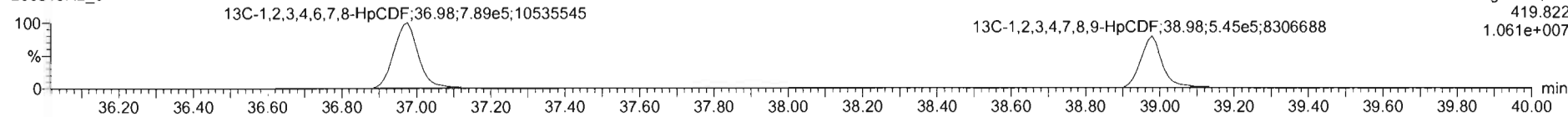


13C-1,2,3,4,6,7,8-HpCDF

200518R2_6

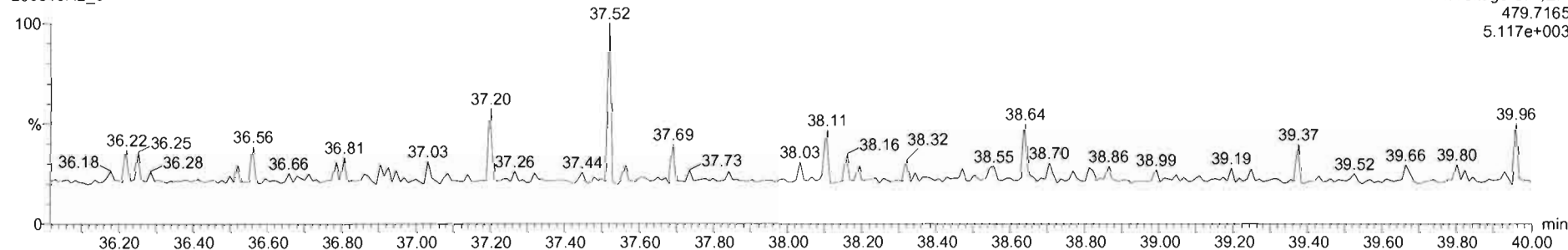


200518R2_6



DPE4

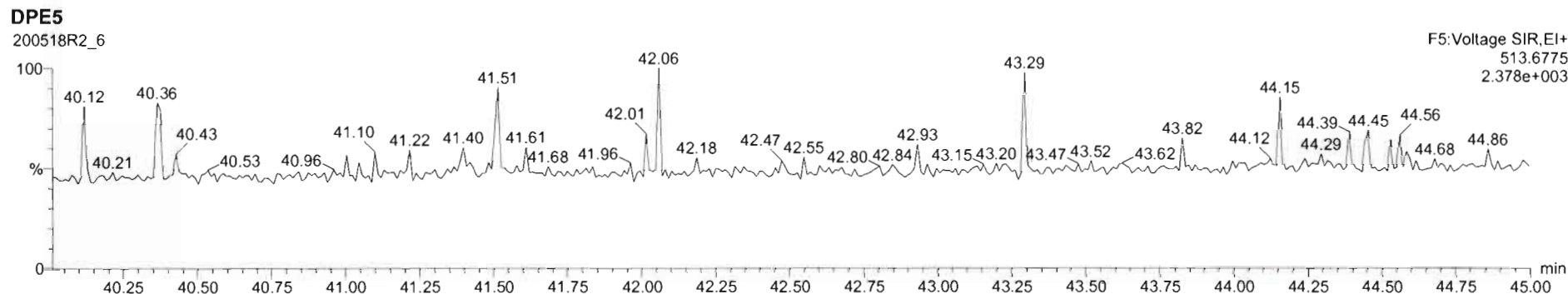
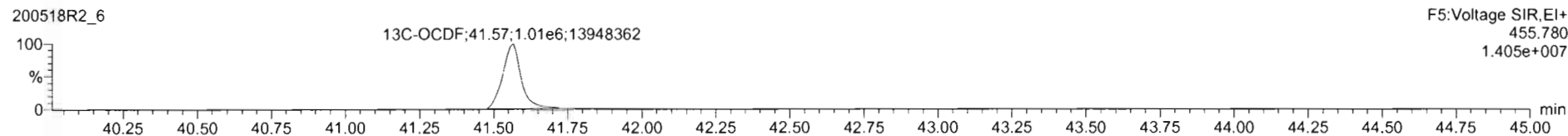
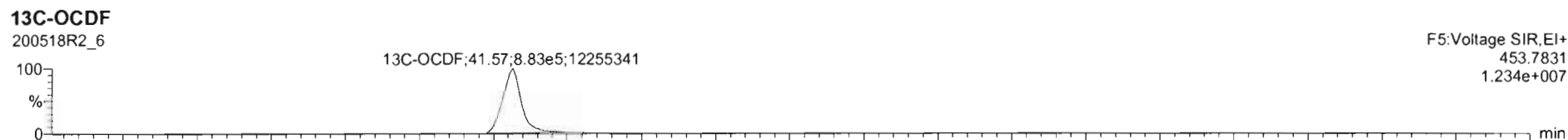
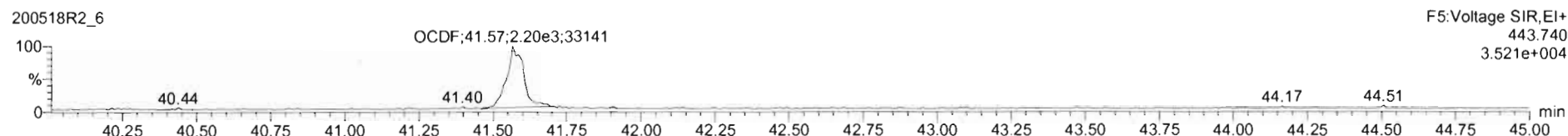
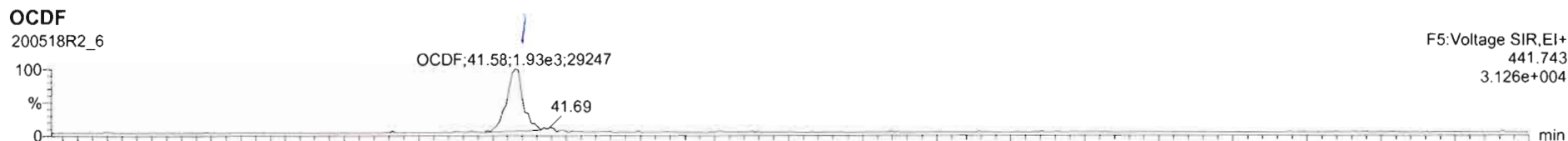
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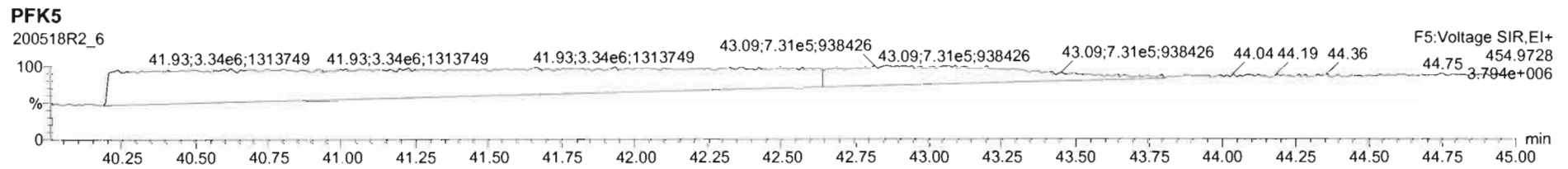
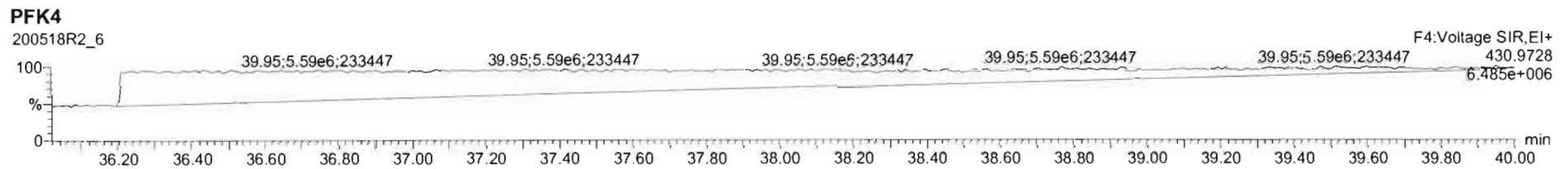
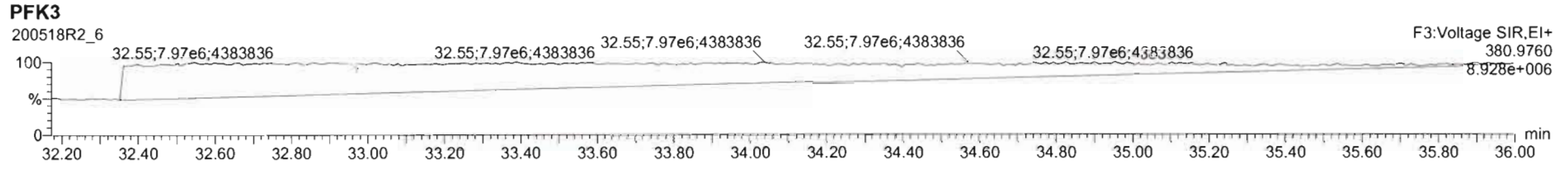
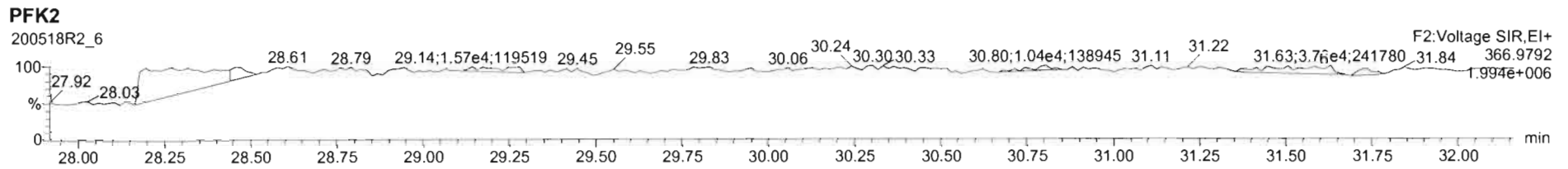
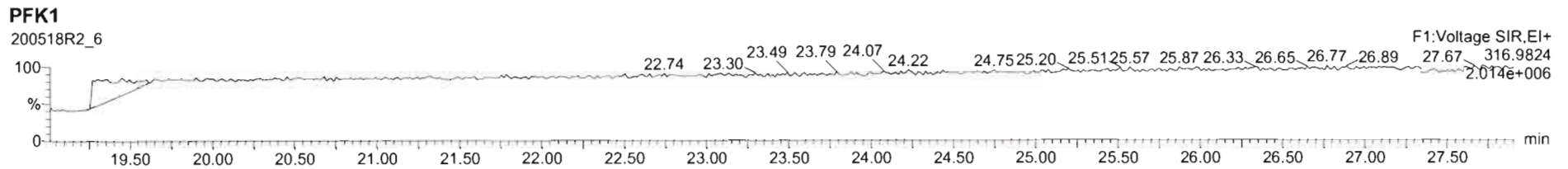
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Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_6, Date: 18-May-2020, Time: 17:53:49, ID: 2000950-06 PDI-156SC-A-04-05-200423 11.04, Description: PDI-156SC-A-04-05-200423



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-7a.qld

Last Altered: Tuesday, May 19, 2020 3:13:08 PM Pacific Daylight Time
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Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_7, Date: 18-May-2020, Time: 18:40:00, ID: 2000950-07 PDI-156SC-A-05-06-200423 11.02, Description: PDI-156SC-A-05-06-200423

#	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	0.947	10.021	26.081	31.147	1.001				0.0565	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.021			1.001				0.0525	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.021	34.516		1.000				0.0582	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.021	34.601		1.000				0.0569	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.021	34.888		1.000				0.0623	
6	6 1,2,3,4,6,7,8-HpCDD	2.65e3	1.06	NO	0.898	10.021	38.394	38.41	1.000	1.001	0.59034		0.118	0.590
7	7 OCDD	1.99e4	0.90	NO	0.933	10.021	41.364	41.38	1.000	1.000	4.8541		0.101	4.85
8	8 2,3,7,8-TCDF			NO	0.787	10.021	25.132		1.001				0.0320	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.021	29.834		1.001				0.0267	
10	10 2,3,4,7,8-PeCDF	1.10e2	1.31	YES	0.966	10.021	30.802	30.80	0.999	0.999	0.014667		0.0125	0.0139
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.021	33.643		1.000				0.0359	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.021	33.770		1.000				0.0334	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.021	34.369		1.001				0.0344	
14	14 1,2,3,7,8,9-HxCDF	2.74e2	1.24	NO	0.864	10.021	35.230	35.22	1.000	1.000	0.058013		0.0283	0.0580
15	15 1,2,3,4,6,7,8-HpCDF	3.76e2	1.14	NO	0.871	10.021	36.992	36.98	1.001	1.001	0.079114		0.0421	0.0791
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.021	38.968		1.000				0.0491	
17	17 OCDF	8.43e2	1.06	YES	0.802	10.021	41.556	41.59	1.000	1.001	0.20575		0.0680	0.189
18	18 13C-2,3,7,8-TCDD	1.26e6	0.78	NO	1.16	10.021	26.031	26.05	1.026	1.027	129.96	65.1	0.133	
19	19 13C-1,2,3,7,8-PeCDD	1.20e6	0.63	NO	0.847	10.021	31.123	31.13	1.227	1.227	170.13	85.2	0.219	
20	20 13C-1,2,3,4,7,8-HxCDD	9.36e5	1.29	NO	0.750	10.021	34.506	34.51	1.014	1.014	168.21	84.3	0.461	
21	21 13C-1,2,3,6,7,8-HxCDD	1.27e6	1.31	NO	0.963	10.021	34.618	34.60	1.017	1.017	178.02	89.2	0.359	
22	22 13C-1,2,3,7,8,9-HxCDD	1.26e6	1.34	NO	0.838	10.021	34.887	34.88	1.025	1.025	202.29	101	0.413	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.98e5	1.03	NO	0.641	10.021	38.378	38.38	1.128	1.128	209.52	105	0.403	
24	24 13C-OCDD	1.76e6	0.88	NO	0.586	10.021	41.372	41.36	1.216	1.216	403.73	101	0.403	
25	25 13C-2,3,7,8-TCDF	1.52e6	0.78	NO	1.03	10.021	25.090	25.11	0.989	0.990	123.36	61.8	0.205	
26	26 13C-1,2,3,7,8-PeCDF	1.61e6	1.56	NO	0.845	10.021	29.812	29.81	1.176	1.176	159.83	80.1	0.211	
27	27 13C-2,3,4,7,8-PeCDF	1.53e6	1.57	NO	0.814	10.021	30.803	30.82	1.215	1.215	157.51	78.9	0.219	
28	28 13C-1,2,3,4,7,8-HxCDF	1.20e6	0.51	NO	1.00	10.021	33.645	33.64	0.989	0.989	160.71	80.5	0.364	
29	29 13C-1,2,3,6,7,8-HxCDF	1.43e6	0.51	NO	1.14	10.021	33.767	33.76	0.992	0.992	169.85	85.1	0.322	
30	30 13C-2,3,4,6,7,8-HxCDF	1.36e6	0.51	NO	1.02	10.021	34.336	34.33	1.009	1.009	179.44	89.9	0.358	
31	31 13C-1,2,3,7,8,9-HxCDF	1.09e6	0.51	NO	0.845	10.021	35.227	35.23	1.035	1.035	173.82	87.1	0.433	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-7a.qld

Last Altered: Tuesday, May 19, 2020 3:13:08 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 3:24:40 PM Pacific Daylight Time

Name: 200518R2_7, Date: 18-May-2020, Time: 18:40:00, ID: 2000950-07 PDI-156SC-A-05-06-200423 11.02, Description: PDI-156SC-A-05-06-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.09e6	0.44	NO	0.771	10.021	36.959	36.96	1.086	1.086	189.97	95.2	0.433	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.33e5	0.43	NO	0.482	10.021	38.970	38.97	1.145	1.145	204.86	103	0.692	
34	34 13C-OCDF	2.04e6	0.87	NO	0.669	10.021	41.542	41.56	1.221	1.221	410.93	103	0.416	
35	35 37Cl-2,3,7,8-TCDD	4.89e5			1.10	10.021	26.061	26.07	1.028	1.028	53.331	66.8	0.0402	
36	36 13C-1,2,3,4-TCDD	1.67e6	0.79	NO	1.00	10.021	25.350	25.36	1.000	1.000	199.59	100	0.155	
37	37 13C-1,2,3,4-TCDF	2.38e6	0.79	NO	1.00	10.021	23.560	23.59	1.000	1.000	199.59	100	0.212	
38	38 13C-1,2,3,4,6,9-HxCDF	1.48e6	0.51	NO	1.00	10.021	34.000	34.03	1.000	1.000	199.59	100	0.366	
39	39 Total Tetra-Dioxins				0.947	10.021	24.620		0.000		0.079136		0.0322	0.0791
40	40 Total Penta-Dioxins				0.942	10.021	29.960		0.000				0.0202	
41	41 Total Hexa-Dioxins				0.915	10.021	33.635		0.000		0.24842		0.0618	0.392
42	42 Total Hepta-Dioxins				0.898	10.021	37.640		0.000		1.3780		0.118	1.38
43	43 Total Tetra-Furans				0.787	10.021	23.610		0.000				0.0114	
44	44 1st Func. Penta-Furans				0.910	10.021	27.090		0.000		0.033757		0.00655	0.0338
45	45 Total Penta-Furans				0.910	10.021	29.275		0.000		0.00000		0.0131	0.0254
46	46 Total Hexa-Furans				0.922	10.021	33.555		0.000		0.16234		0.0198	0.162
47	47 Total Hepta-Furans				0.871	10.021	37.835		0.000		0.079114		0.0481	0.202

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-7a.qld

Last Altered: Tuesday, May 19, 2020 3:13:08 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 3:24:40 PM Pacific Daylight Time

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_7, Date: 18-May-2020, Time: 18:40:00, ID: 2000950-07 PDI-156SC-A-05-06-200423 11.02, Description: PDI-156SC-A-05-06-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.79	2.945e3	3.220e3	2.211e2	2.511e2	0.88	NO	4.723e2	0.079136	0.079136	0.0322

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	33.04	1.215e4	1.048e4	7.371e2	5.781e2	1.27	NO	1.315e3	0.24842	0.24842	0.0618
2	Total Hexa-Dioxins	33.85	9.790e3	4.315e3	5.488e2	3.387e2	1.62	YES	0.000e0	0.00000	0.14331	0.0618

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.35	2.116e4	2.075e4	1.759e3	1.777e3	0.99	NO	3.535e3	0.78770	0.78770	0.118
2	1,2,3,4,6,7,8-HpCDD	38.41	1.834e4	1.541e4	1.361e3	1.288e3	1.06	NO	2.649e3	0.59034	0.59034	0.118

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	1st Func. Penta-Furans	27.19	3.070e3	1.891e3	1.534e2	8.814e1	1.74	NO	2.415e2	0.033757	0.033757	0.00655

Quantify Totals Report MassLynx 4.1 SCN815

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-7a.qld

Last Altered: Tuesday, May 19, 2020 3:13:08 PM Pacific Daylight Time

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Name: 200518R2_7, Date: 18-May-2020, Time: 18:40:00, ID: 2000950-07 PDI-156SC-A-05-06-200423 11.02, Description: PDI-156SC-A-05-06-200423**Penta-Furans**

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	2,3,4,7,8-PeCDF	30.80	1.880e3	2.031e3	6.238e1	4.762e1	1.31	YES	1.100e2	0.00000	0.013870	0.0125
2	Total Penta-Furans	30.83	1.435e3	1.825e3	5.032e1	4.389e1	1.15	YES	0.000e0	0.00000	0.011571	0.0131

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.65	2.589e3	3.003e3	1.237e2	9.082e1	1.36	NO	2.145e2	0.036543	0.036543	0.0198
2	Total Hexa-Furans	33.20	3.407e3	3.167e3	1.431e2	1.140e2	1.26	NO	2.571e2	0.043801	0.043801	0.0198
3	1,2,3,7,8,9-HxCDF	35.22	2.942e3	3.080e3	1.515e2	1.223e2	1.24	NO	2.738e2	0.058013	0.058013	0.0283
4	Total Hexa-Furans	35.26	2.237e3	1.813e3	7.418e1	6.659e1	1.11	NO	1.408e2	0.023985	0.023985	0.0198

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	36.98	2.631e3	2.463e3	2.002e2	1.753e2	1.14	NO	3.755e2	0.079114	0.079114	0.0421
2	Total Hepta-Furans	37.57	2.904e3	4.588e3	2.489e2	2.891e2	0.86	YES	0.000e0	0.00000	0.12286	0.0481

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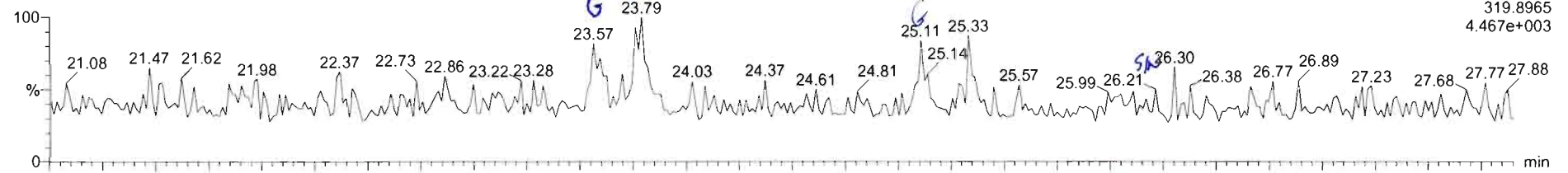
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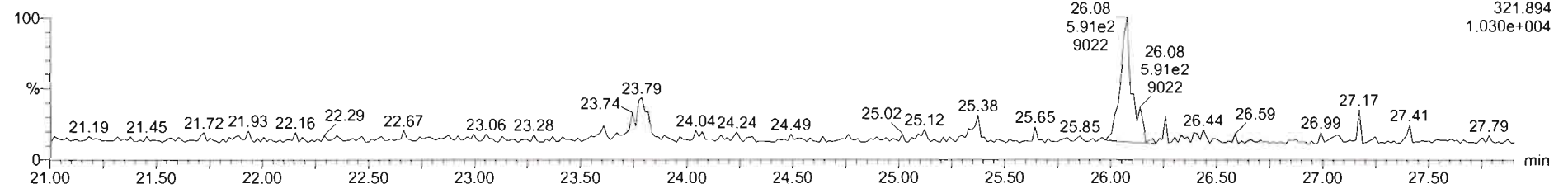
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2,3,7,8-TCDD

200518R2_7

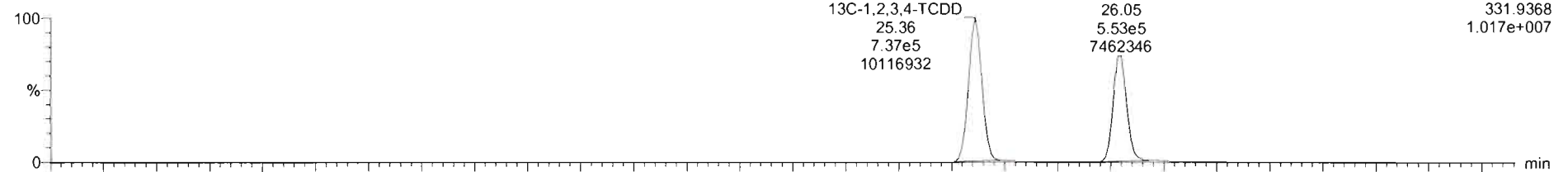


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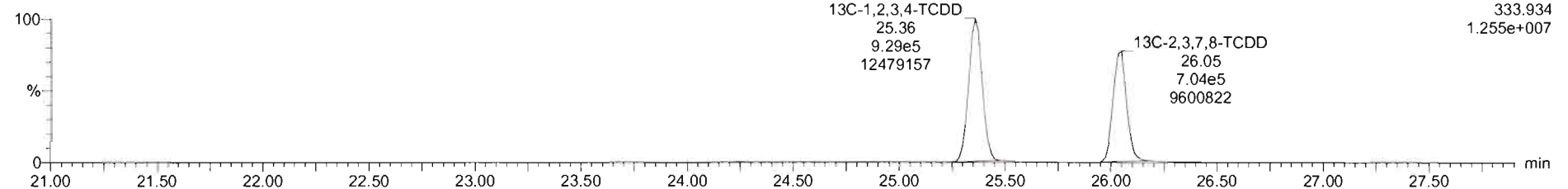


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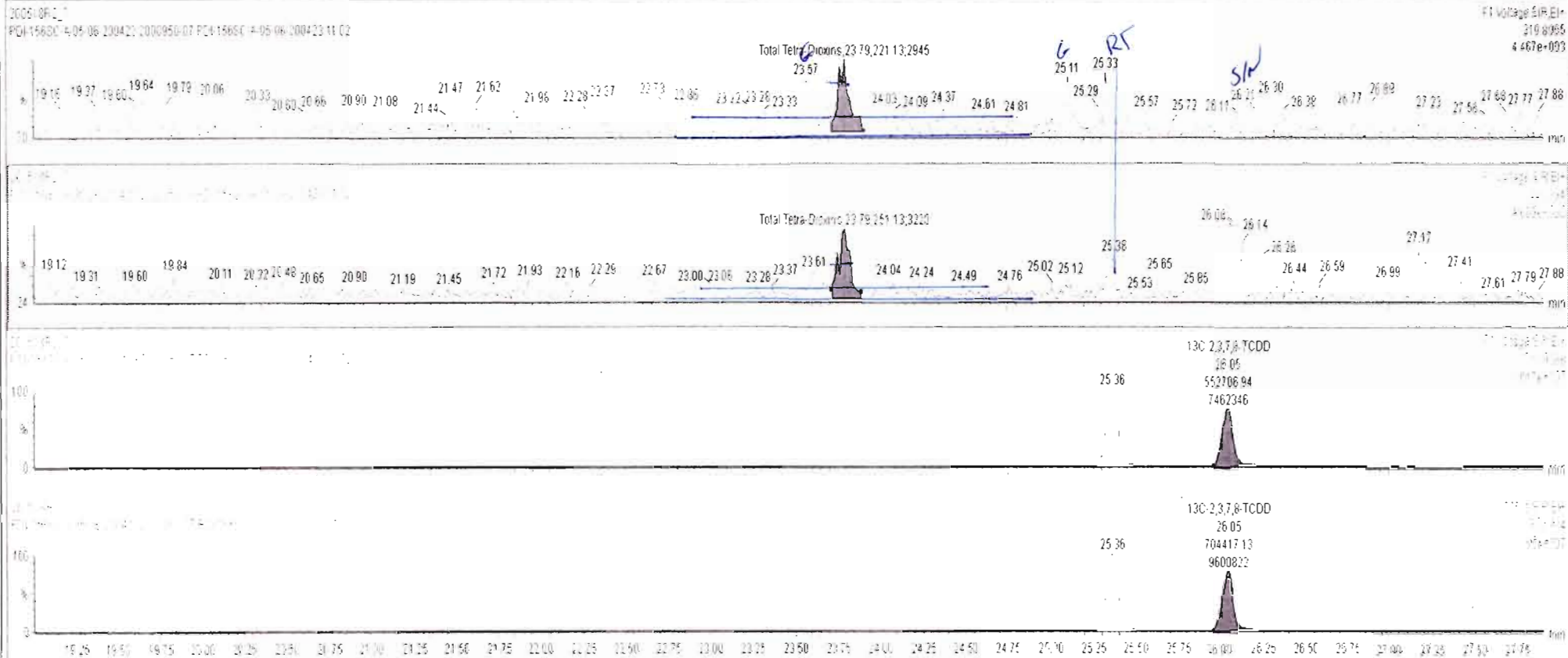
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200518R2_7 - 2000950-07 PDI-156SC-A-05-06-200423 11.02 - PDI-156SC-A-05-06-200423

Name	Resp	RA	n/y	RFI	wt/vol	RT	RRT	Conc.	%Rec	Dt	EMPC
39 Total Tetra-Dioxins				0.9475	10.021			0.0791	0.0322	0.0791	
40 Total Penta-Dioxins				0.9425	10.021				0.0202		
41 Total Hexa-Dioxins				0.9145	10.021			0.401	0.0618	0.401	
42 Total Hepta-Dioxins				0.6979	10.021			0.744	0.118	1.04	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	23.79	2.211e2	2.511e2	0.88	NO	0.079136	0.079136



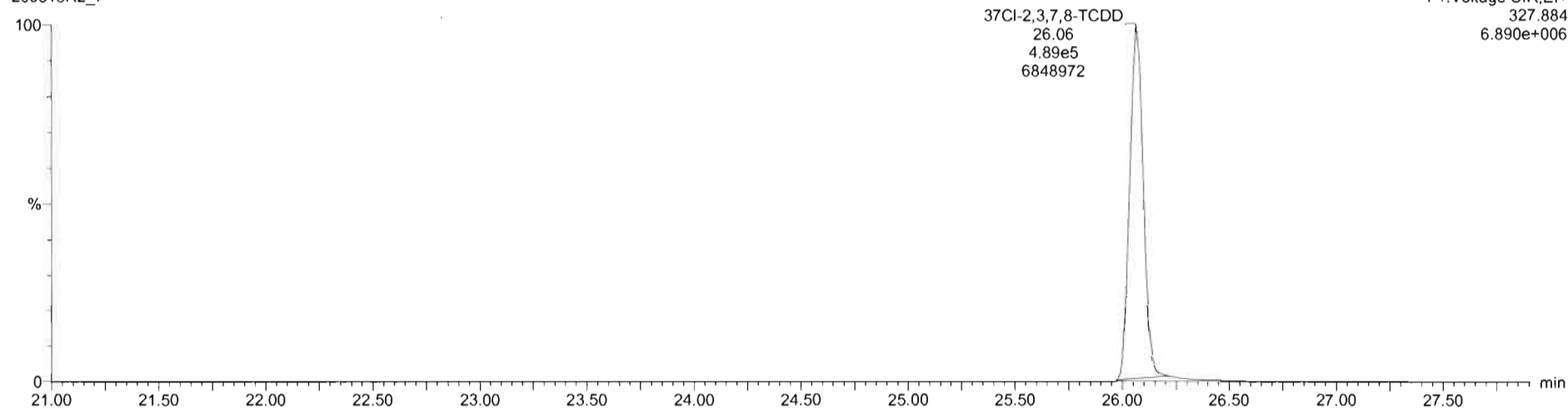
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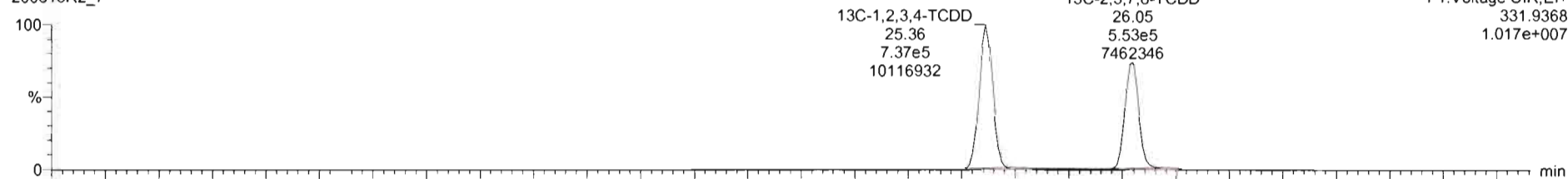
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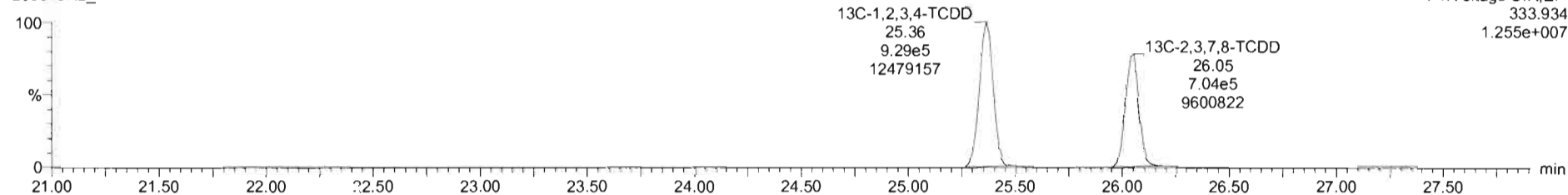


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200518R2_7



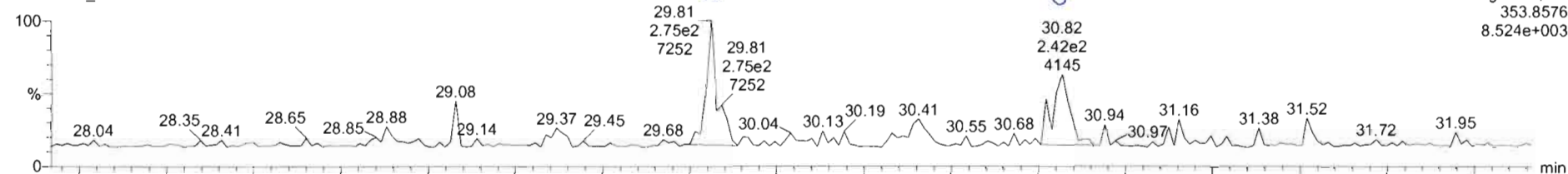
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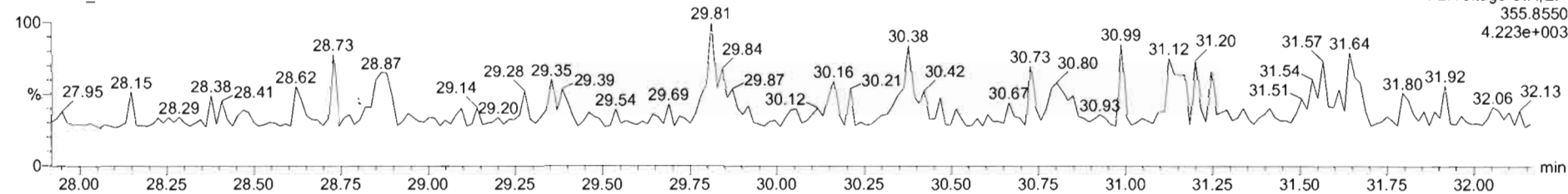
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1,2,3,7,8-PeCDD

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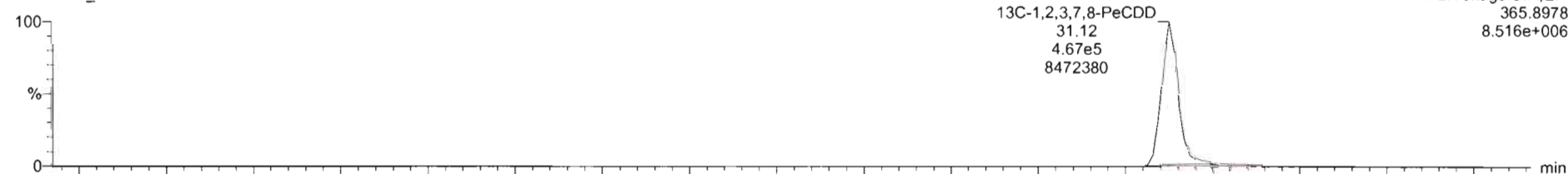


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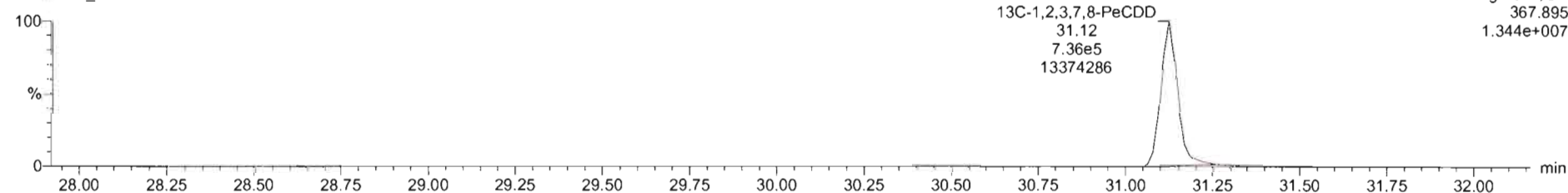


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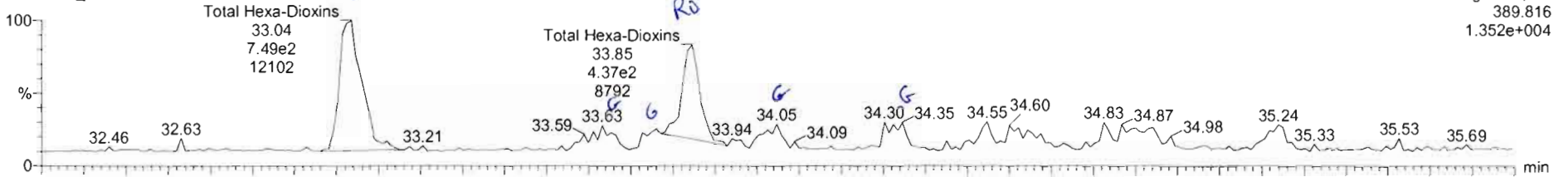
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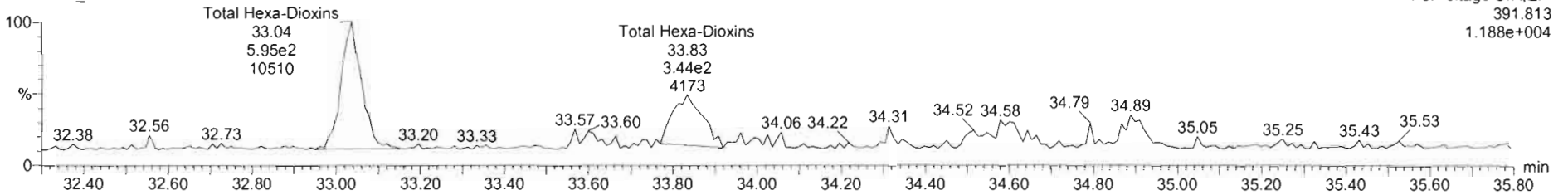
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1,2,3,4,7,8-HxCDD

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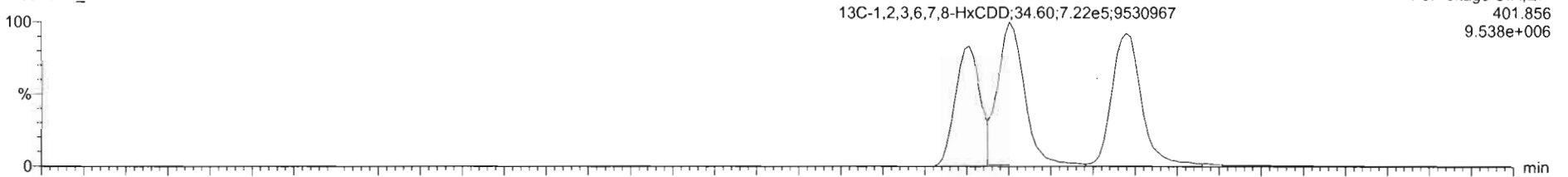


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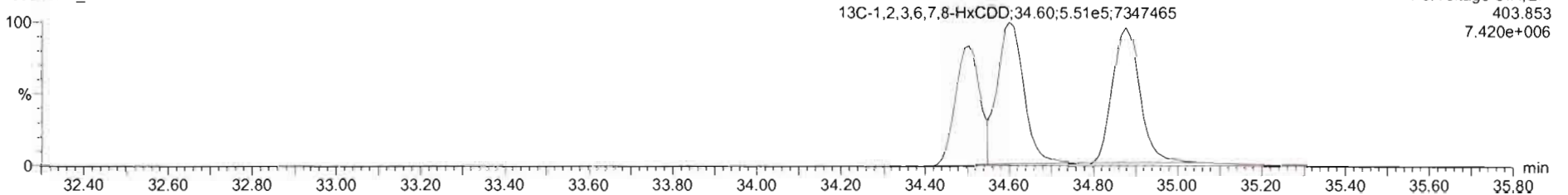


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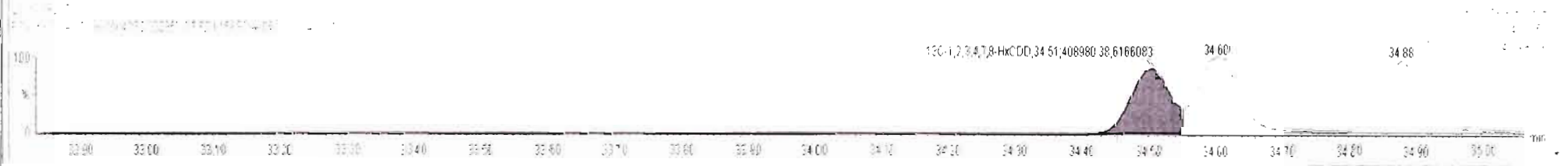
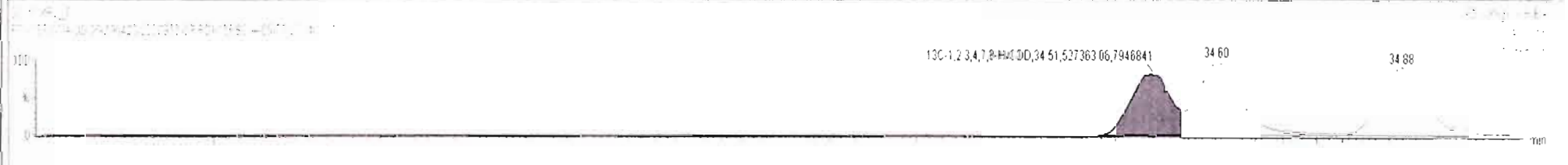
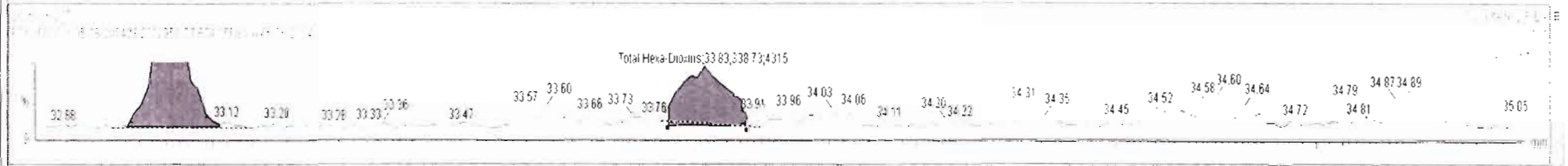
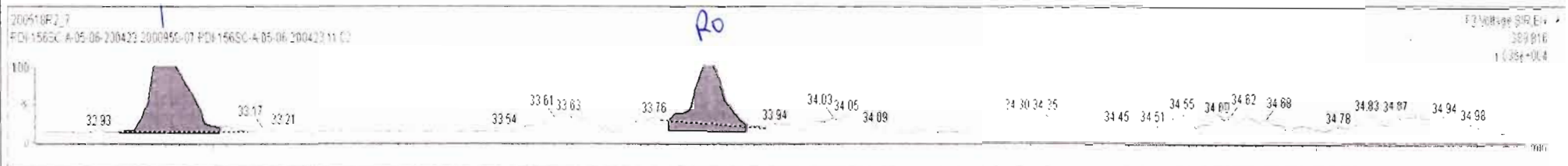


200518R2_7



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.021			0.0791		0.0322	0.0791
40 Total Penta-Dioxins				0.9425	10.021					0.0202	
41 Total Hexa-Dioxins				0.9145	10.021			0.248		0.0618	0.392
42 Total Hepta-Dioxins				0.8979	10.021			0.744		0.118	1.04

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.04	7.371e2	5.781e2	1.27	NO	0.24842	0.24842
2 Total Hexa-Dioxins	33.85	5.488e2	3.367e2	1.62	YES	0.14331	0.00000



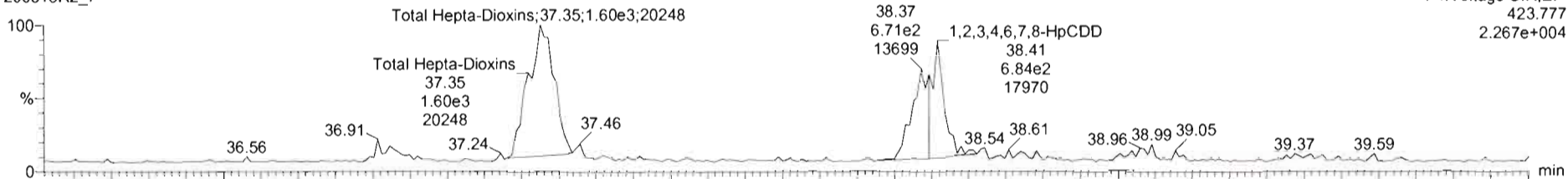
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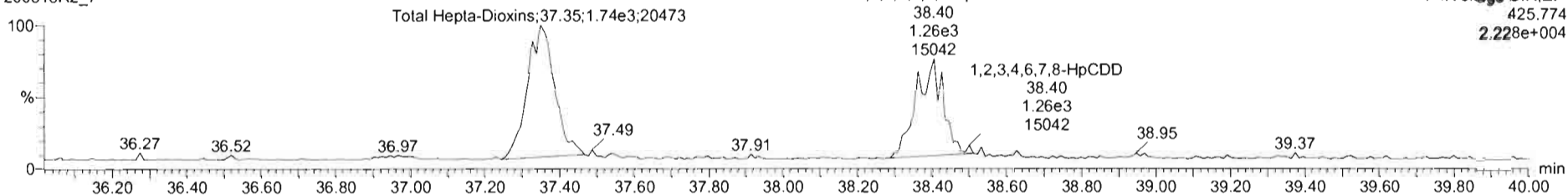
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1,2,3,4,6,7,8-HpCDD

200518R2_7

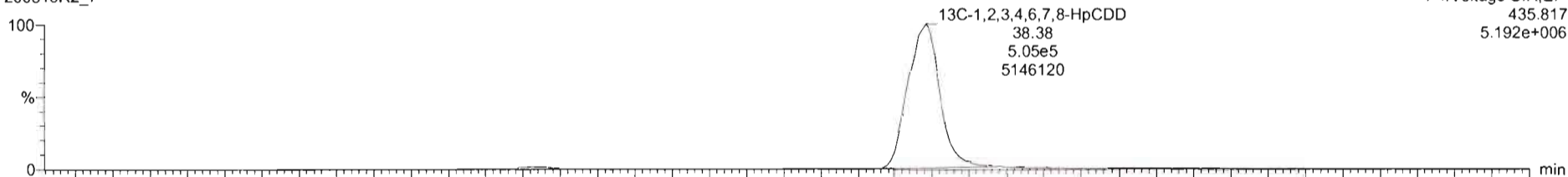


200518R2_7

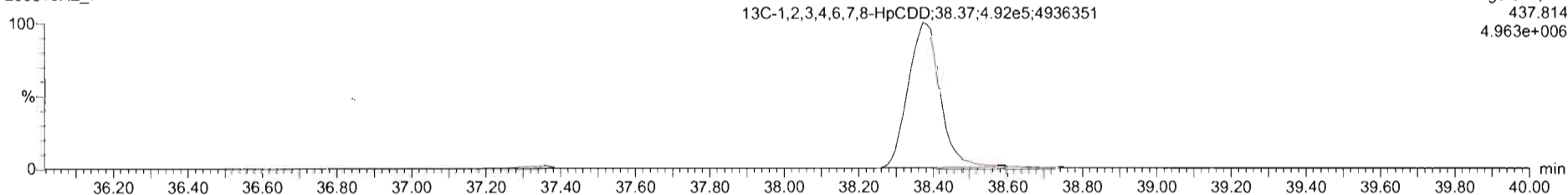


13C-1,2,3,4,6,7,8-HpCDD

200518R2_7



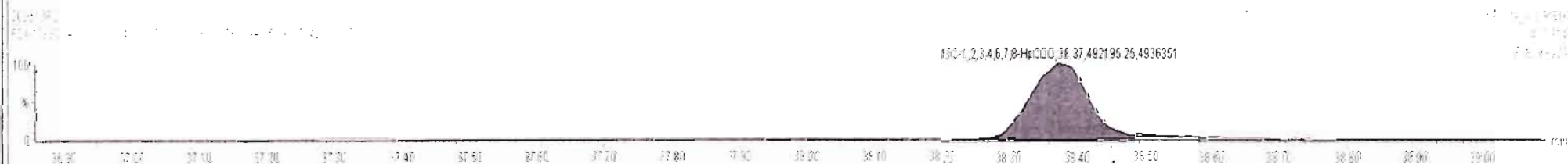
200518R2_7



200518R2_7 - 2000950-07 PDI-156SC-A-05-06-200423 11.02 - FDI-156SC-A-05-06-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.021			0.0791		0.0322	0.0791
40 Total Penta-Dioxins				0.9425	10.021					0.0202	
41 Total Hexa-Dioxins				0.9145	10.021			0.246		0.0618	0.392
42 Total Hepta-Dioxins				0.8979	10.021			1.38		0.118	1.38

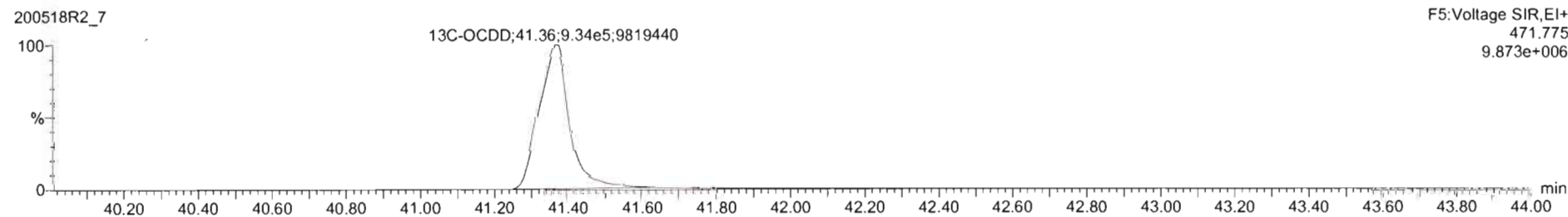
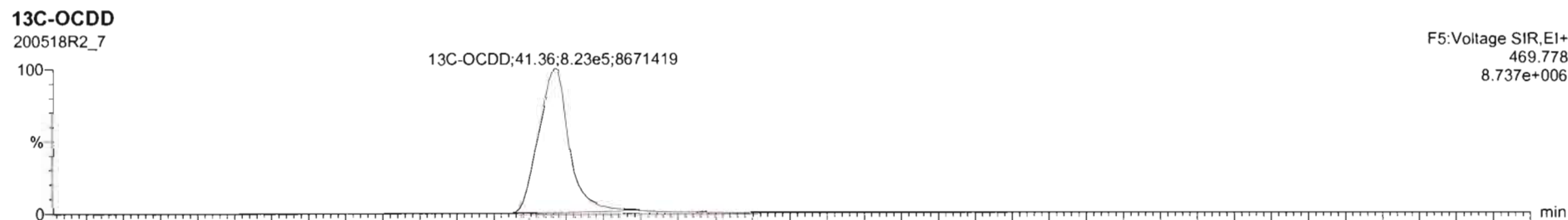
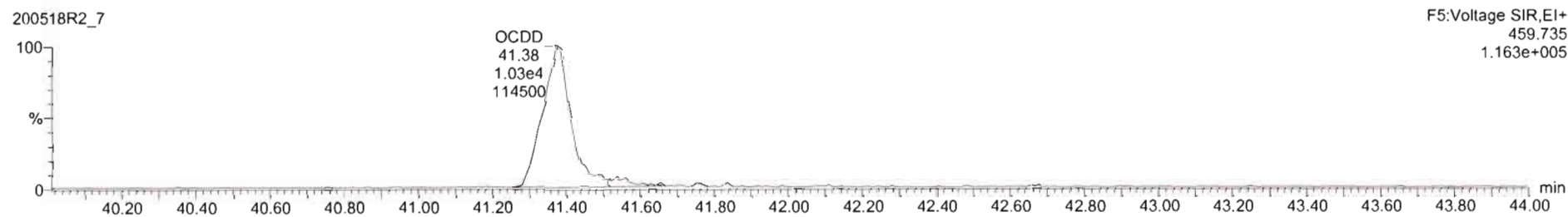
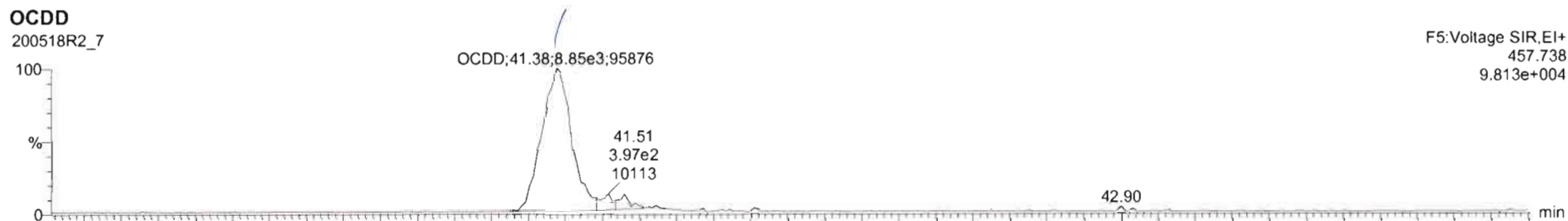
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.35	1.759e3	1.777e3	0.99	NO	0.76770	0.76770
2 1,2,3,4,6,7,8-HpCDD	38.41	1.361e3	1.266e3	1.06	NO	0.59034	0.59034



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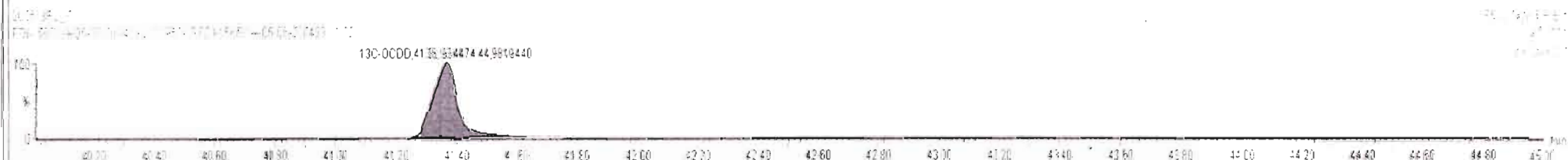
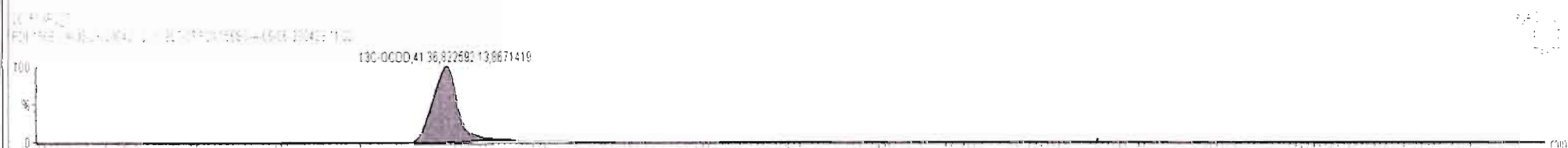
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Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	1.99e4	0.90	NO	0.9335	10.021	41.38	1.000	4.85		0.101	4.85
8 2,3,7,8-TCDF			NO	0.7871	10.021					0.0320	
9 1,2,3,7,8-PeCDF			NO	0.9102	10.021					0.0267	
10 2,3,4,7,8-PeCDF			NO	0.9664	10.021					0.0259	

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



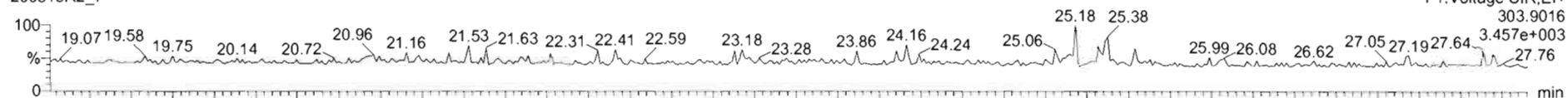
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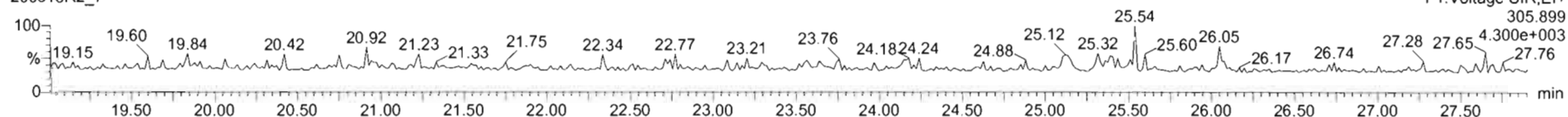
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2,3,7,8-TCDF

200518R2_7

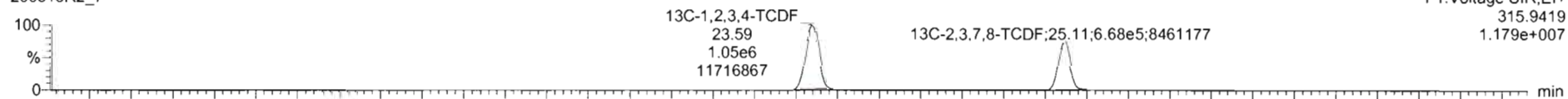


200518R2_7

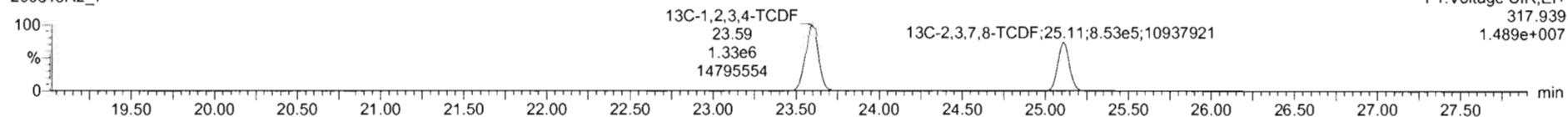


13C-2,3,7,8-TCDF

200518R2_7

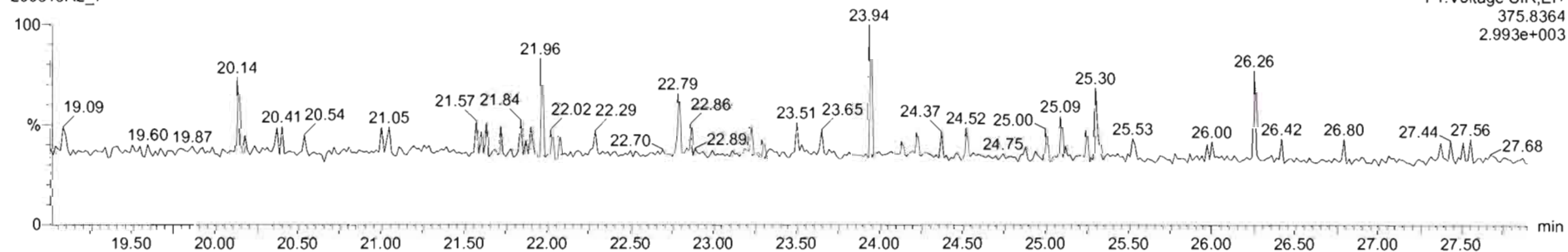


200518R2_7



DPE1

200518R2_7



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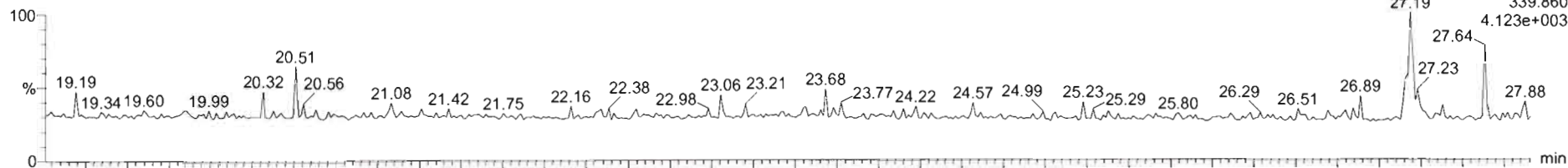
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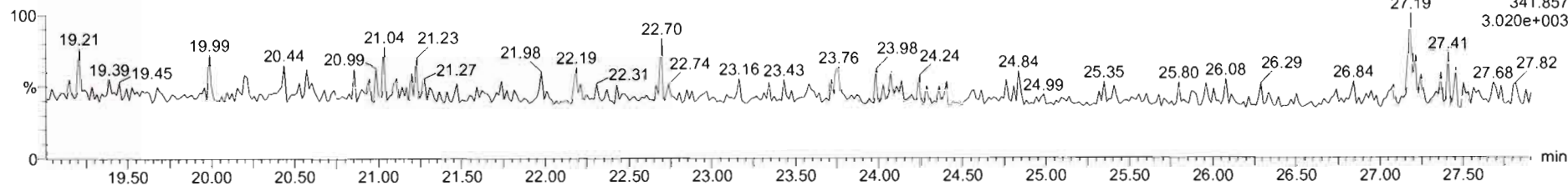
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1st Func. Penta-Furans

200518R2_7

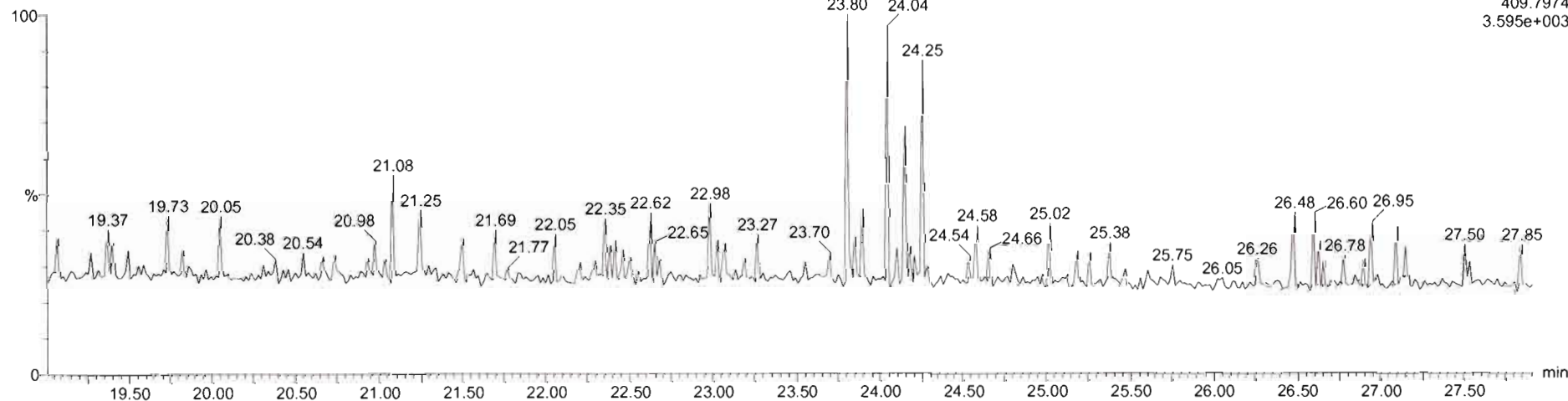


200518R2_7



DPE6

200518R2_7

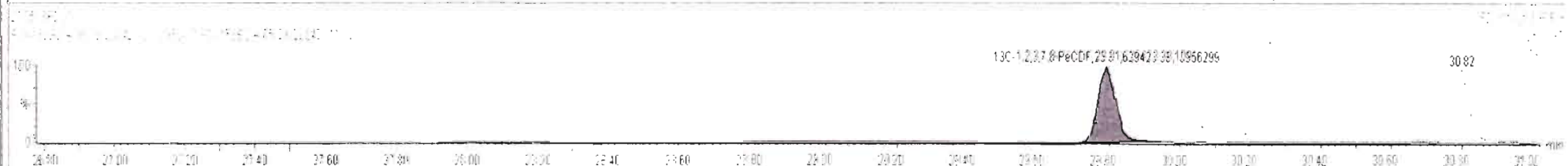
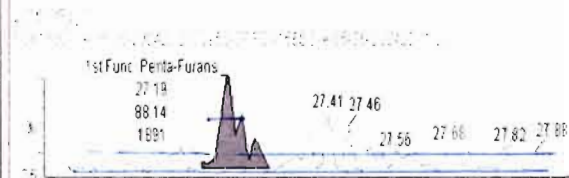


Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9102	10.021			0.0338		0.00655	0.0338
45 Total Penta-Furans				0.9102	10.021					0.0131	
46 Total Hexa-Furans				0.9217	10.021					0.0193	
47 Total Hepta-Furans				0.8712	10.021			0.134		0.0481	0.134

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1st Func. Penta-Furans	27.19	1.534e2	8.814e1	1.74	NO	0.033757	0.033757

200518R2_7
PDI-156SC-A-05-06-200423 2000950-07 PDI-156SC-A-05-06-200423 11.02

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339 REU
1:50:10-003

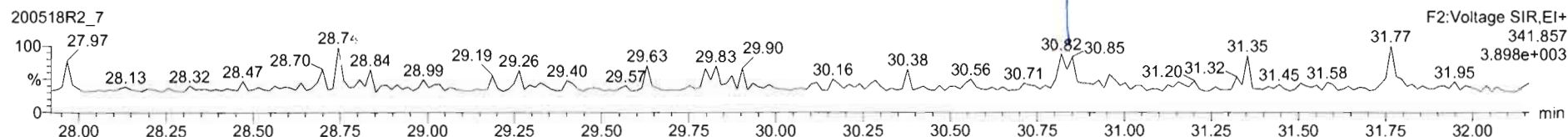
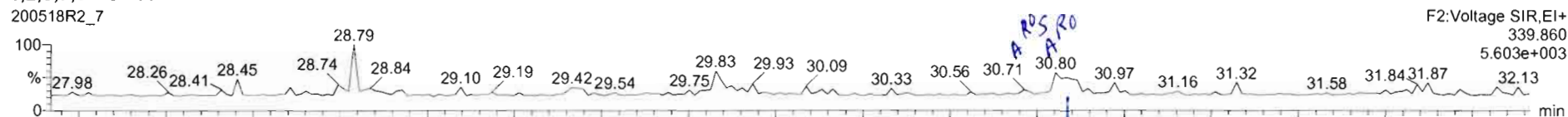


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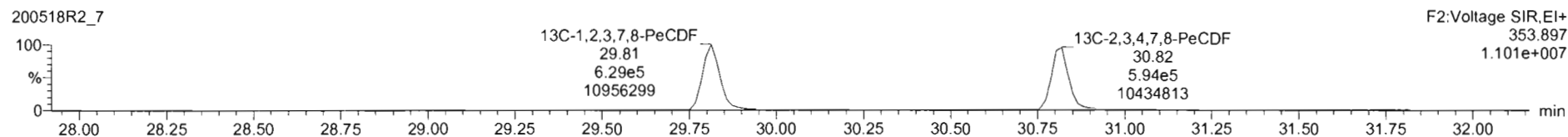
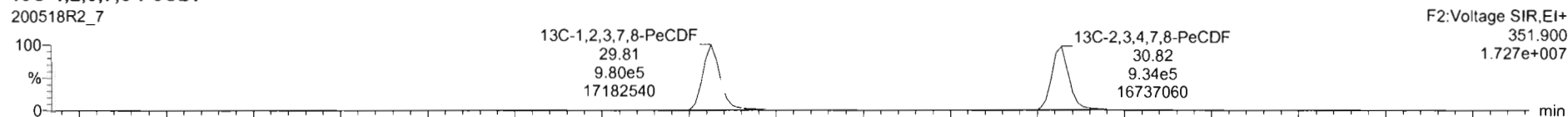
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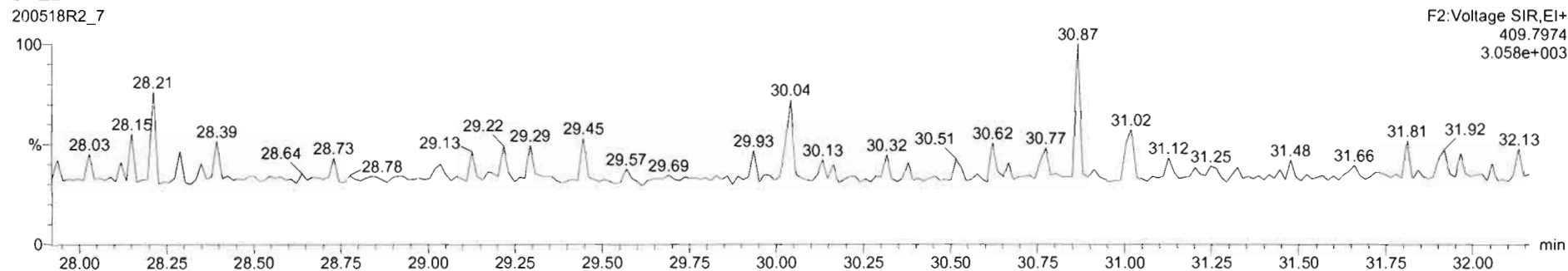
1,2,3,7,8-PeCDF



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

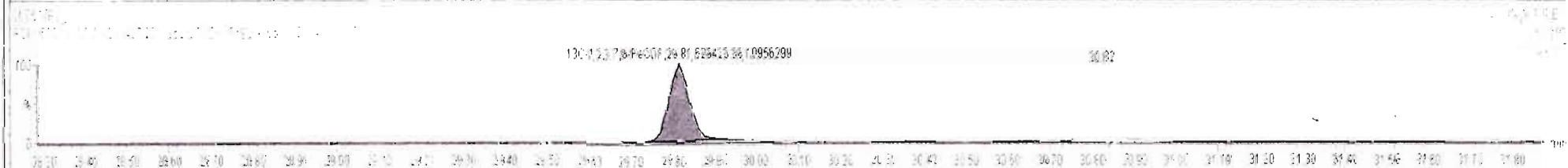
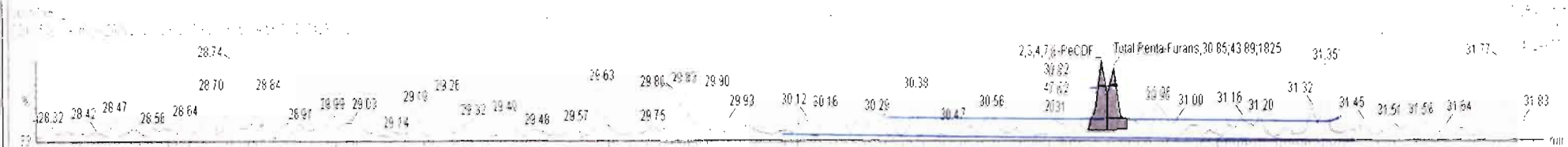


DPE2



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.021			0.000		0.0131	0.0254
46 Total Hexa-Furans				0.9217	10.021			0.152		0.0196	0.162
47 Total Hepta-Furans				6.6712	10.021			0.0791		0.0481	0.202
48 PFK1											

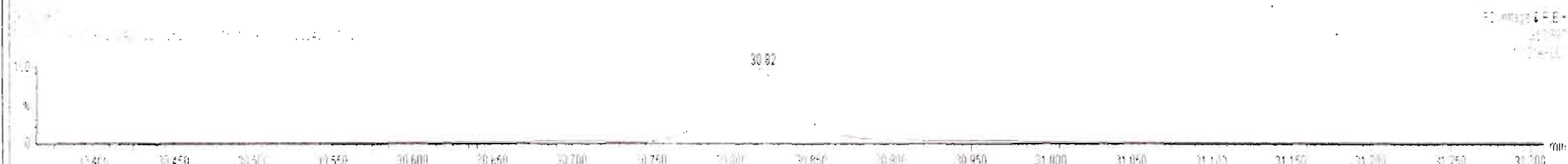
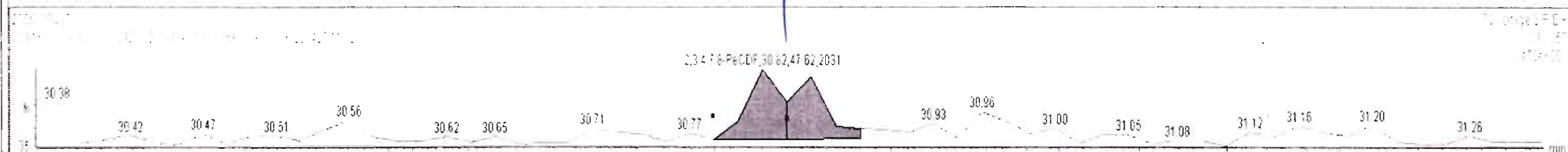
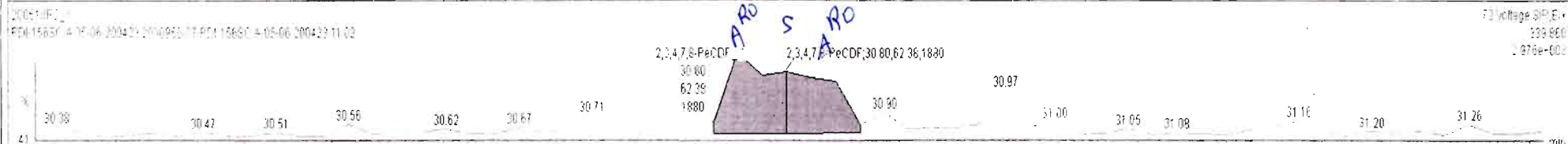
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 2,3,4,7,8-PeCDF	30.80	6.236e1	4.762e1	1.31	YES	0.013670	0.00000
2 Total Penta-Furans	30.83	5.032e1	4.389e1	1.15	YES	0.011571	0.00000



200518R2_7 - 2000950-07 PDI-156SC-A-05-06-200423 11.02 - PDI-156SC-A-05-06-200423

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.021			0.000	0.0131	0.0254	
46 Total Hexa-Furans				0.9217	10.021			0.152	0.0198	0.162	
47 Total Hepta-Furans				0.8712	10.021			0.0791	0.0491	0.202	
48 PFY1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 2,3,4,7,8-PeCDF	30.80	6.238e1	4.762e1	1.31	YES	0.013870	0.00300
2 Total Penta-Furans	30.63	5.032e1	4.389e1	1.15	YES	0.011571	0.00300

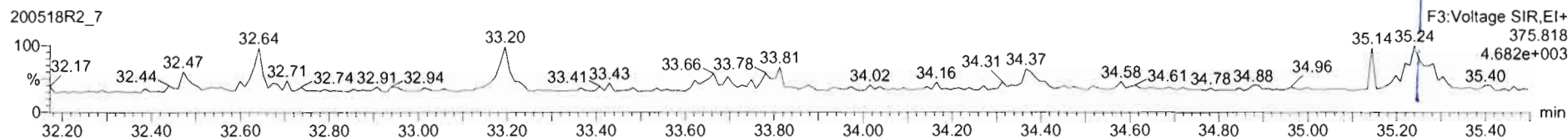
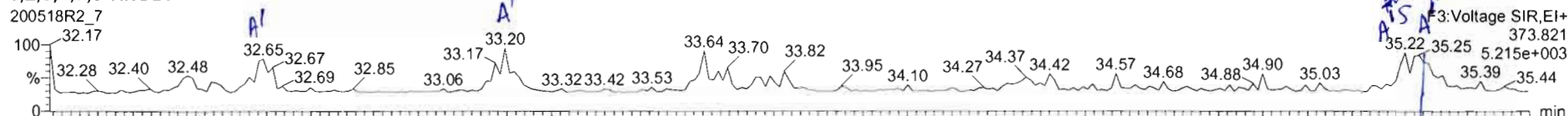


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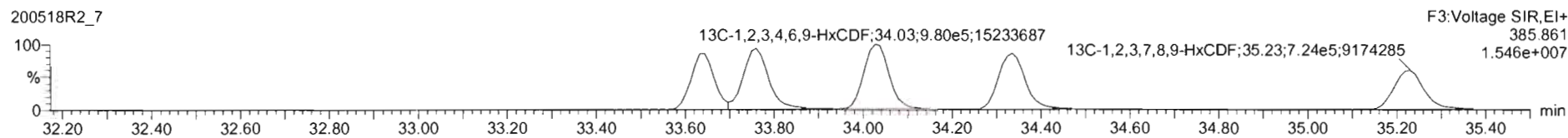
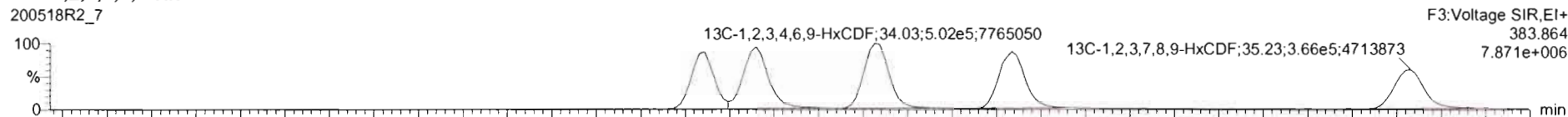
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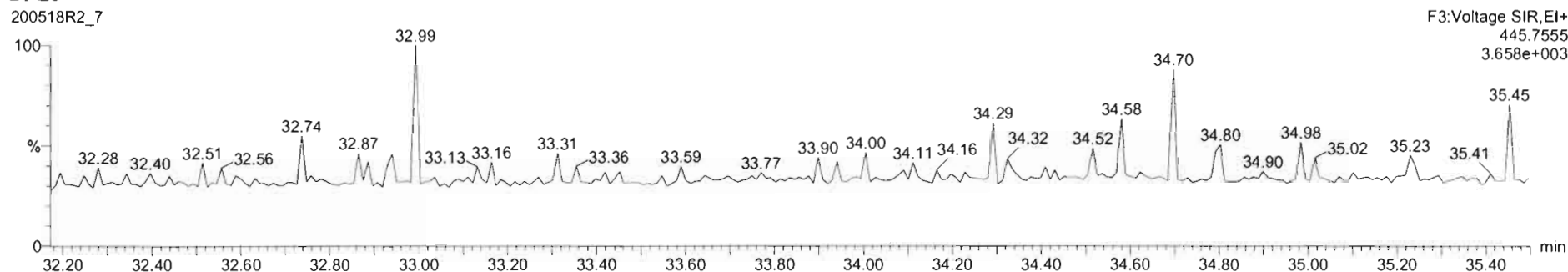
1,2,3,4,7,8-HxCDF



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



DPE3

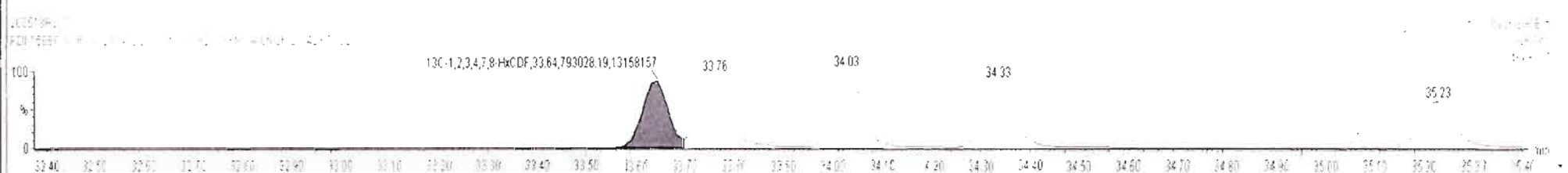
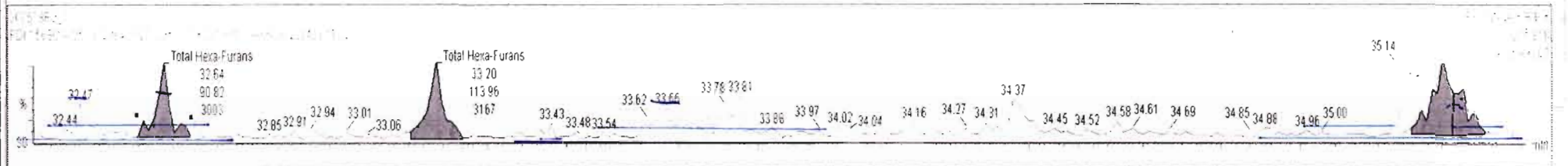
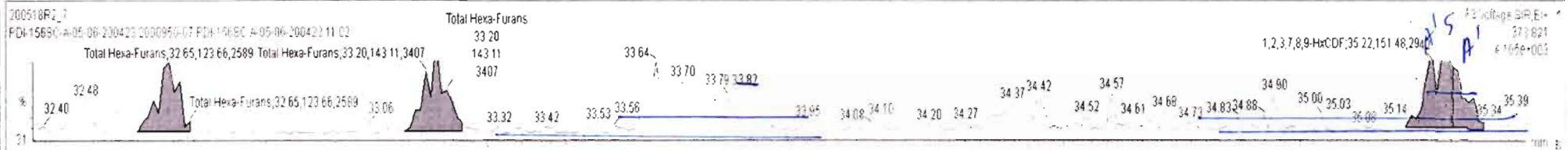




200518R2_7 - 2000950-07 PDI-156SC-A-05-06-200423 11.02 - PDI-156SC-A-05-06-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.021			0.0149	0.0131	0.0260	
46 Total Hexa-Furans				0.9217	10.021			0.162	0.0198	0.162	
47 Total Hepta-Furans				0.8712	10.021			0.134	0.0481	0.134	
48 PFK1											

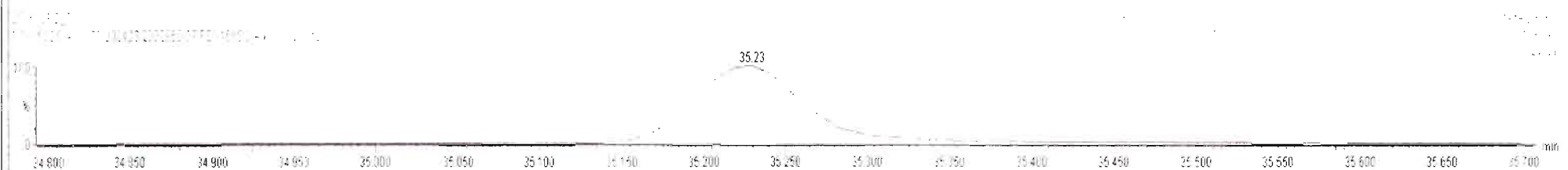
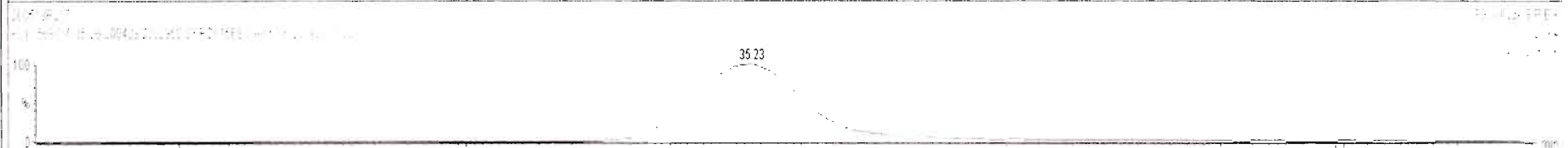
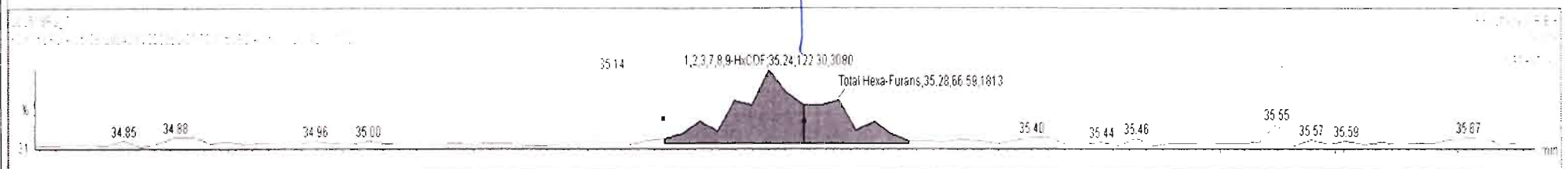
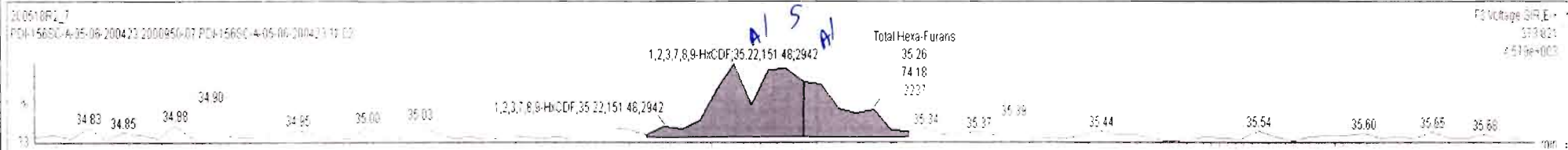
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.65	1.237e2	9.062e1	1.36	NO	0.036543	0.036543
2 Total Hexa-Furans	33.20	1.431e2	1.140e2	1.26	NO	0.043801	0.043801
3 1,2,3,7,8,9-HxCDF	35.22	1.515e2	1.223e2	1.24	NO	0.058013	0.058013
4 Total Hexa-Furans	35.26	7.418e1	6.659e1	1.11	NO	0.023985	0.023985



200518R2_7 - 2000950-07 PDI-156SC-A-05-06-200423 11.02 - FDI-156SC-A-05-06-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.021			0.0149		0.0131	0.0260
46 Total Hexa-Furans				0.9217	10.021			0.162		0.0198	0.162
47 Total Hepta-Furans				0.8712	10.021			0.134		0.0461	0.134
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.65	1.237e2	9.062e1	1.36	NO	0.036543	0.036543
2 Total Hexa-Furans	33.20	1.431e2	1.140e2	1.26	NO	0.043601	0.043601
3 1,2,3,7,8,9-HxCDF	35.22	1.515e2	1.223e2	1.24	NO	0.058013	0.058013
4 Total Hexa-Furans	35.26	7.418e1	6.659e1	1.11	NO	0.023985	0.023985



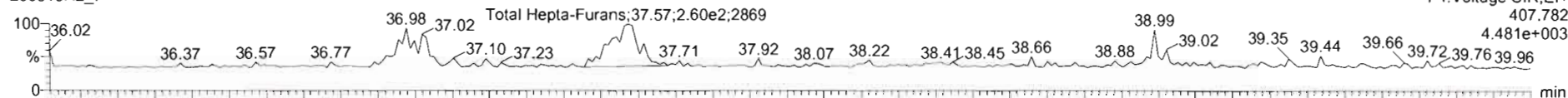
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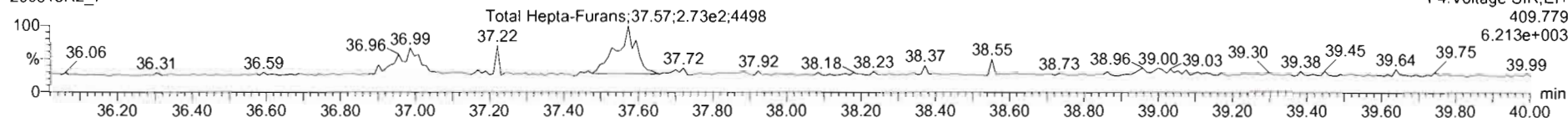
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1,2,3,4,6,7,8-HpCDF

200518R2_7

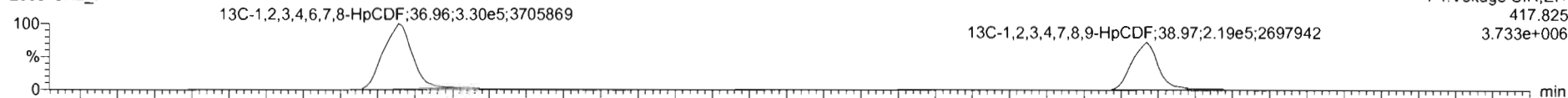


200518R2_7

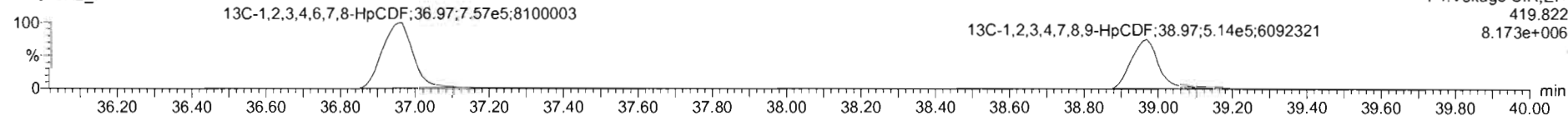


13C-1,2,3,4,6,7,8-HpCDF

200518R2_7

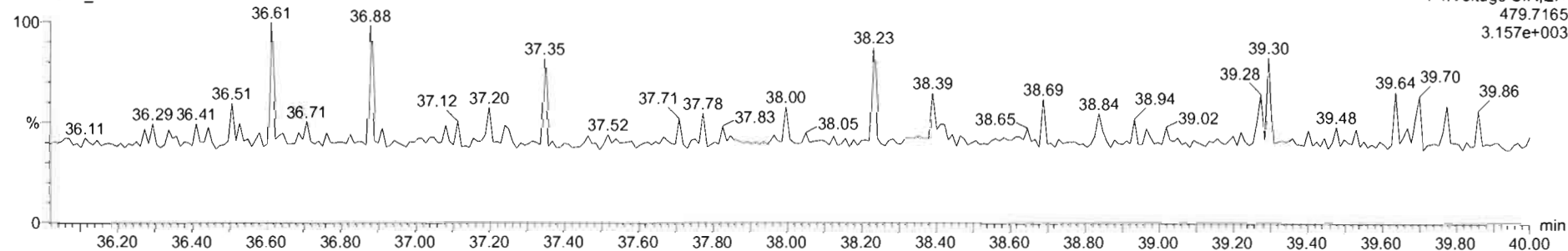


200518R2_7



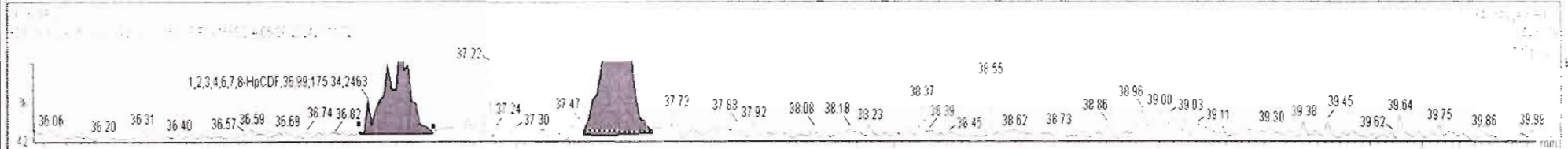
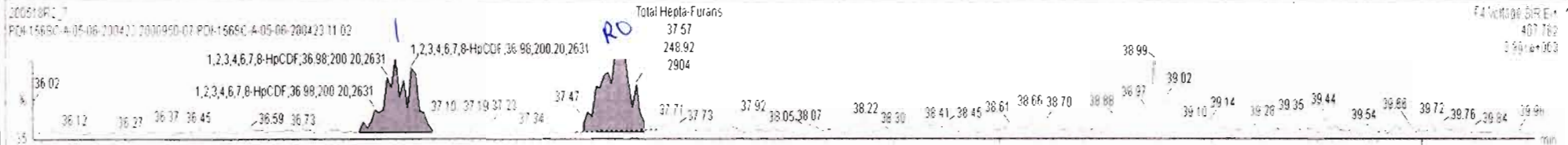
DPE4

200518R2_7



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.021			0.0149		0.0131	0.0260
46 Total Hexa-Furans				0.9217	10.021			0.162		0.0198	0.162
47 Total Hepta-Furans				0.8712	10.021			0.0791		0.0481	0.202
48 PFK1											

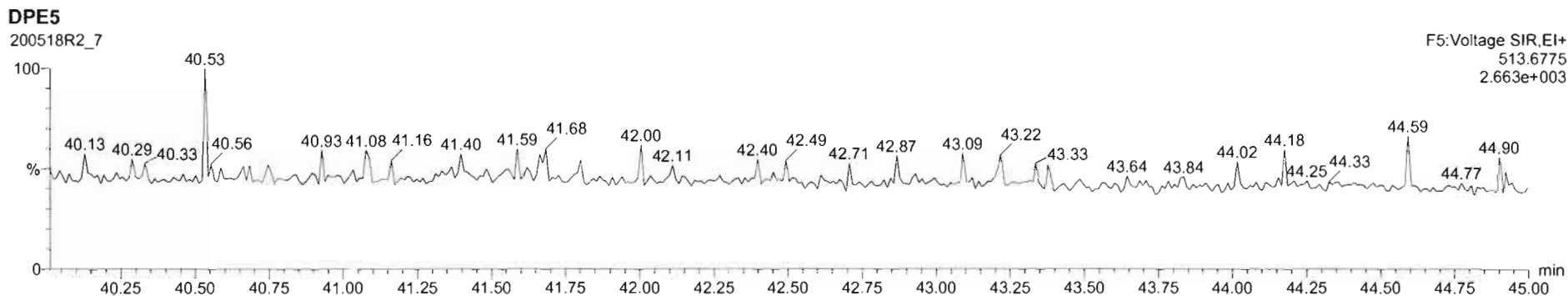
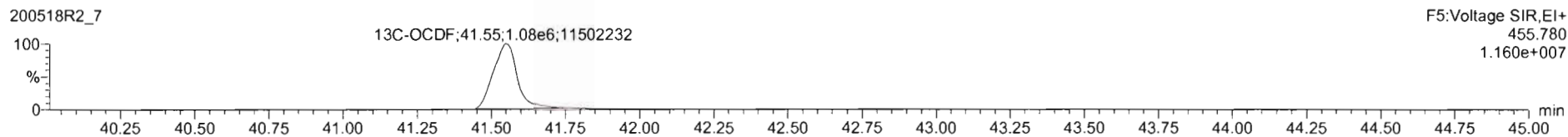
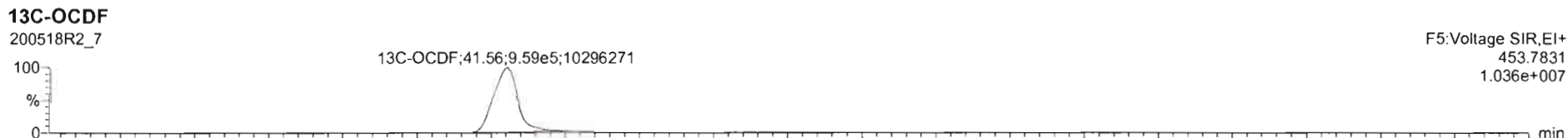
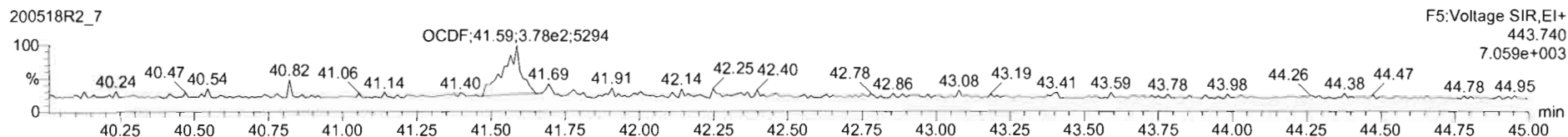
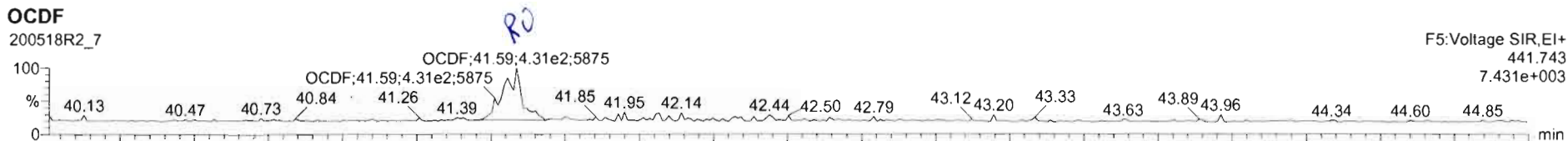
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.98	2.002e2	1.753e2	1.14	NO	0.079114	0.079114
2 Total Hepta-Furans	37.57	2.463e2	2.891e2	0.86	YES	0.12286	0.00000



Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

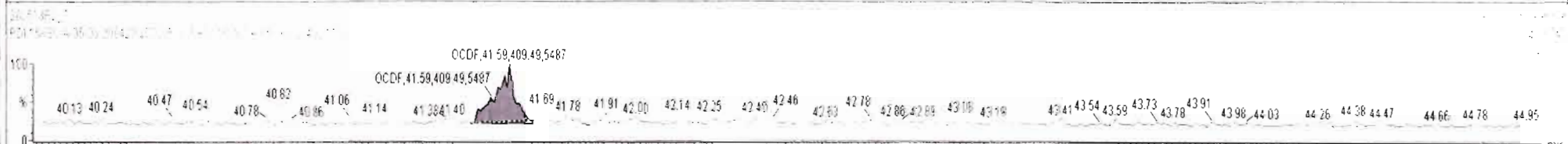
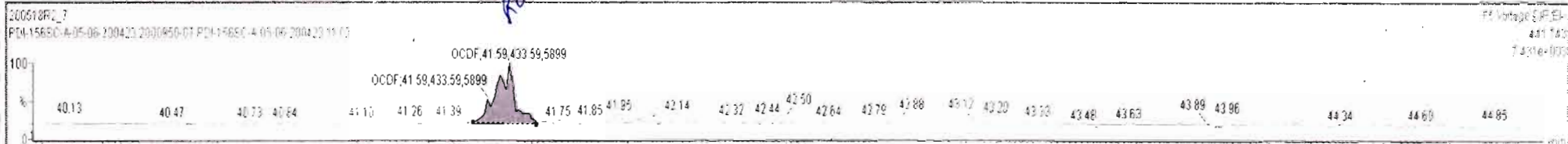
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200518R2_7 - 2000950-07 PDI-156SC-A-05-06-200423 11.02 - PDI-156SC-A-05-06-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	8.43e2	1.06	YES	0.8021	10.021	41.58	1.001	0.206	0.0660	0.189
18	13C-2,3,7,8-1CDD	1.26e6	0.76	NO	1.1595	10.021	26.05	1.027	130	65.1	0.133
19	13C-1,2,3,7,8-PeCDD	1.21e6	0.63	NO	0.8472	10.021	31.13	1.227	170	85.2	0.219
20	13C-1,2,3,4,7,8-HxCDD	9.36e5	1.28	NO	0.7499	10.021	34.51	1.014	168	84.3	0.461

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

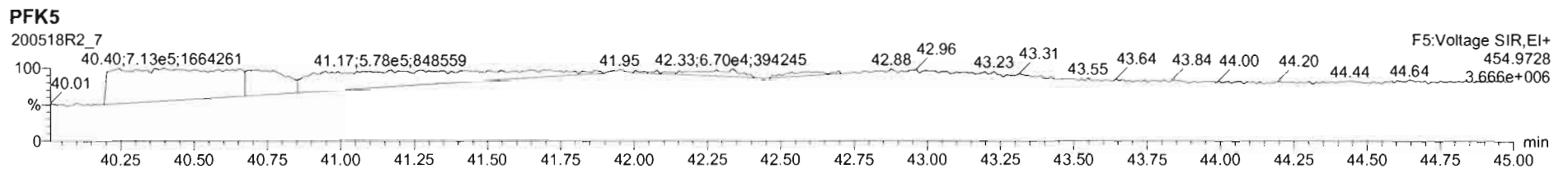
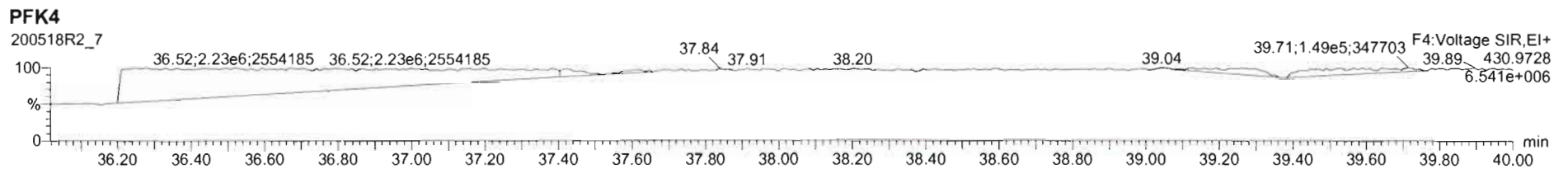
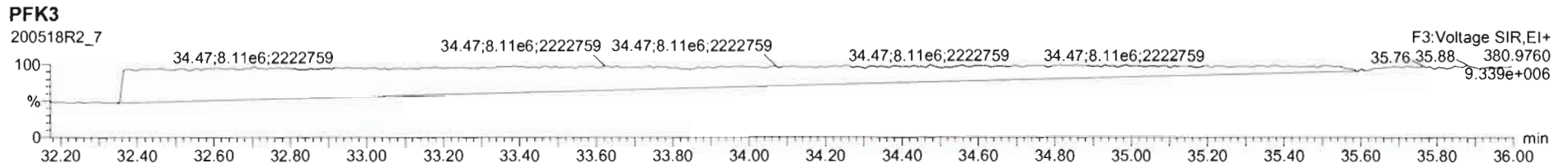
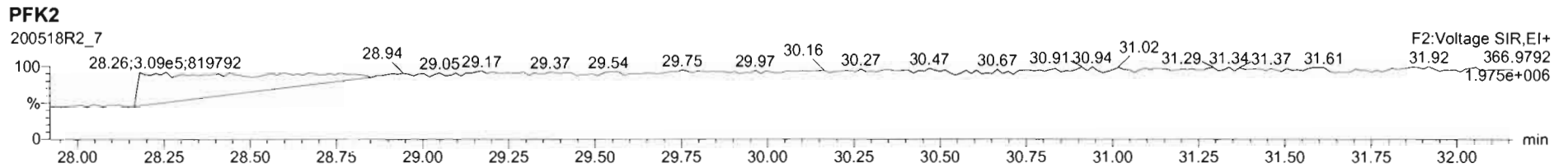
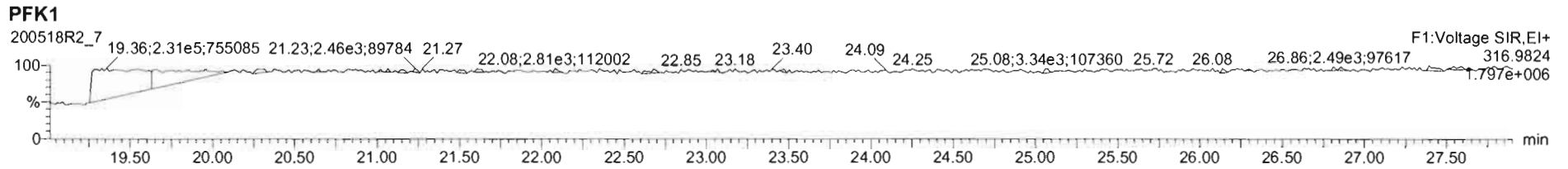


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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_7, Date: 18-May-2020, Time: 18:40:00, ID: 2000950-07 PDI-156SC-A-05-06-200423 11.02, Description: PDI-156SC-A-05-06-200423



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-8.qld

Last Altered: Tuesday, May 19, 2020 4:46:42 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 4:51:16 PM Pacific Daylight Time

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CTUS/22/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

#	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	0.947	10.056	26.066		1.001				0.0420	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.056	31.147		1.001				0.0471	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.056	34.505		1.000				0.0672	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.056	34.601		1.000				0.0680	
5	5 1,2,3,7,8,9-HxCDD	7.98e2	1.27	NO	0.915	10.056	34.878	34.88	1.000	1.000	0.12314		0.0756	0.123
6	6 1,2,3,4,6,7,8-HpCDD	7.79e3	1.00	NO	0.898	10.056	38.384	38.39	1.000	1.001	1.5735		0.0917	1.57
7	7 OCDD	4.87e4	0.89	NO	0.933	10.056	41.354	41.37	1.000	1.000	10.462		0.0799	10.5
8	8 2,3,7,8-TCDF			NO	0.787	10.056	25.132		1.001				0.0219	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.056	29.834		1.001				0.0168	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.056	30.836		1.001				0.0157	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.056	33.632		1.000				0.0285	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.056	33.759		1.000				0.0269	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.056	34.359		1.001				0.0294	
14	14 1,2,3,7,8,9-HxCDF	2.80e2	1.21	NO	0.864	10.056	35.219	35.23	1.000	1.000	0.043997		0.0239	0.0440
15	15 1,2,3,4,6,7,8-HpCDF	2.75e2	1.04	NO	0.871	10.056	36.992	36.97	1.001	1.000	0.049085		0.0166	0.0491
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.056	38.958		1.000				0.0416	
17	17 OCDF	7.07e2	0.71	YES	0.802	10.056	41.546	41.53	1.000	1.000	0.15680		0.0502	0.138
18	18 13C-2,3,7,8-TCDD	1.87e6	0.77	NO	1.16	10.056	26.031	26.03	1.026	1.027	170.09	85.5	0.141	
19	19 13C-1,2,3,7,8-PeCDD	1.74e6	0.62	NO	0.847	10.056	31.123	31.13	1.227	1.227	216.60	109	0.166	
20	20 13C-1,2,3,4,7,8-HxCDD	1.22e6	1.28	NO	0.750	10.056	34.496	34.49	1.014	1.014	190.79	95.9	0.378	
21	21 13C-1,2,3,6,7,8-HxCDD	1.62e6	1.27	NO	0.963	10.056	34.608	34.60	1.017	1.017	197.74	99.4	0.294	
22	22 13C-1,2,3,7,8,9-HxCDD	1.41e6	1.24	NO	0.838	10.056	34.877	34.87	1.025	1.025	197.44	99.3	0.338	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.10e6	1.04	NO	0.641	10.056	38.367	38.37	1.128	1.128	200.64	101	0.307	
24	24 13C-OCDD	1.99e6	0.87	NO	0.586	10.056	41.360	41.35	1.216	1.216	397.41	99.9	0.366	
25	25 13C-2,3,7,8-TCDF	2.30e6	0.78	NO	1.03	10.056	25.090	25.11	0.989	0.990	163.82	82.4	0.187	
26	26 13C-1,2,3,7,8-PeCDF	2.42e6	1.59	NO	0.845	10.056	29.812	29.81	1.176	1.176	211.31	106	0.280	
27	27 13C-2,3,4,7,8-PeCDF	2.28e6	1.57	NO	0.814	10.056	30.803	30.81	1.215	1.215	206.32	104	0.291	
28	28 13C-1,2,3,4,7,8-HxCDF	1.61e6	0.51	NO	1.00	10.056	33.635	33.63	0.989	0.989	187.63	94.3	0.462	
29	29 13C-1,2,3,6,7,8-HxCDF	1.85e6	0.52	NO	1.14	10.056	33.757	33.75	0.992	0.992	190.68	95.9	0.409	
30	30 13C-2,3,4,6,7,8-HxCDF	1.66e6	0.51	NO	1.02	10.056	34.326	34.33	1.009	1.009	191.03	96.0	0.454	
31	31 13C-1,2,3,7,8,9-HxCDF	1.47e6	0.49	NO	0.845	10.056	35.217	35.22	1.035	1.035	203.58	102	0.550	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-8.qld

Last Altered: Tuesday, May 19, 2020 4:46:42 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 4:51:16 PM Pacific Daylight Time

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.28e6	0.44	NO	0.771	10.056	36.948	36.96	1.086	1.086	194.41	97.7	0.378	
33	33 13C-1,2,3,4,7,8,9-HpCDF	8.95e5	0.42	NO	0.482	10.056	38.959	38.96	1.145	1.145	217.79	110	0.604	
34	34 13C-OCDF	2.24e6	0.88	NO	0.669	10.056	41.530	41.55	1.221	1.221	393.10	98.8	0.265	
35	35 37Cl-2,3,7,8-TCDD	7.28e5			1.10	10.056	26.061	26.07	1.028	1.028	70.034	88.0	0.0395	
36	36 13C-1,2,3,4-TCDD	1.88e6	0.79	NO	1.00	10.056	25.350	25.36	1.000	1.000	198.89	100	0.164	
37	37 13C-1,2,3,4-TCDF	2.69e6	0.79	NO	1.00	10.056	23.560	23.59	1.000	1.000	198.89	100	0.193	
38	38 13C-1,2,3,4,6,9-HxCDF	1.69e6	0.51	NO	1.00	10.056	34.000	34.02	1.000	1.000	198.89	100	0.465	
39	39 Total Tetra-Dioxins				0.947	10.056	24.620		0.000		0.10280		0.0420	0.103
40	40 Total Penta-Dioxins				0.942	10.056	29.960		0.000		0.00000		0.0206	0.145
41	41 Total Hexa-Dioxins				0.915	10.056	33.635		0.000		1.1643		0.0734	1.23
42	42 Total Hepta-Dioxins				0.898	10.056	37.640		0.000		3.7631		0.0917	3.76
43	43 Total Tetra-Furans				0.787	10.056	23.610		0.000				0.00917	
44	44 1st Func. Penta-Furans				0.910	10.056	27.090		0.000				0.00362	
45	45 Total Penta-Furans				0.910	10.056	29.275		0.000				0.00788	
46	46 Total Hexa-Furans				0.922	10.056	33.555		0.000		0.070121		0.0177	0.0701
47	47 Total Hepta-Furans				0.871	10.056	37.835		0.000		0.11270		0.0190	0.113

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-8.qld

Last Altered: Tuesday, May 19, 2020 4:46:42 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 4:51:16 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.79	4.627e3	6.328e3	3.641e2	5.504e2	0.66	NO	9.145e2	0.10280	0.10280	0.0420

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.87	3.005e3	4.248e3	2.126e2	2.415e2	0.88	YES	0.000e0	0.00000	0.047796	0.0471
2	Total Penta-Dioxins	29.34	7.371e3	8.547e3	3.640e2	4.897e2	0.74	YES	0.000e0	0.00000	0.096947	0.0471

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.04	3.983e4	3.331e4	2.334e3	1.968e3	1.19	NO	4.302e3	0.66048	0.66048	0.0734
2	Total Hexa-Dioxins	33.57	5.315e3	3.915e3	2.699e2	1.828e2	1.48	YES	0.000e0	0.00000	0.062860	0.0734
3	Total Hexa-Dioxins	33.85	1.894e4	1.926e4	1.375e3	1.104e3	1.25	NO	2.480e3	0.38070	0.38070	0.0734
4	1,2,3,7,8,9-HxCDD	34.88	6.930e3	6.178e3	4.469e2	3.512e2	1.27	NO	7.980e2	0.12314	0.12314	0.0756

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.36	5.926e4	5.599e4	5.554e3	5.285e3	1.05	NO	1.084e4	2.1897	2.1897	0.0917
2	1,2,3,4,6,7,8-HpCDD	38.39	4.026e4	3.742e4	3.895e3	3.894e3	1.00	NO	7.789e3	1.5735	1.5735	0.0917

Tetra-Furans

	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\200518R2\200518R2-8.qld

Last Altered: Tuesday, May 19, 2020 4:46:42 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 4:51:16 PM Pacific Daylight Time

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

Penta-Furans function 1

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

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.23	3.911e3	4.184e3	1.536e2	1.265e2	1.21	NO	2.801e2	0.043997	0.043997	0.0239
2	Total Hexa-Furans	35.25	3.854e3	2.858e3	1.096e2	8.964e1	1.22	NO	1.992e2	0.026124	0.026124	0.0177

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	36.97	1.984e3	2.061e3	1.402e2	1.344e2	1.04	NO	2.746e2	0.049085	0.049085	0.0166
2	Total Hepta-Furans	37.56	2.168e3	3.280e3	1.486e2	1.541e2	0.96	NO	3.026e2	0.063614	0.063614	0.0190

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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time

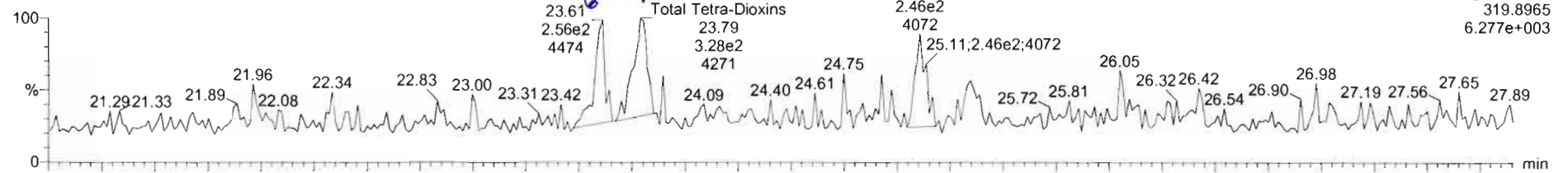
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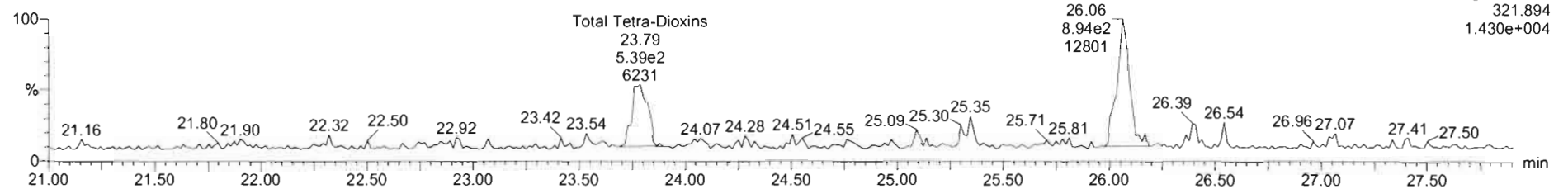
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2,3,7,8-TCDD

200518R2_8

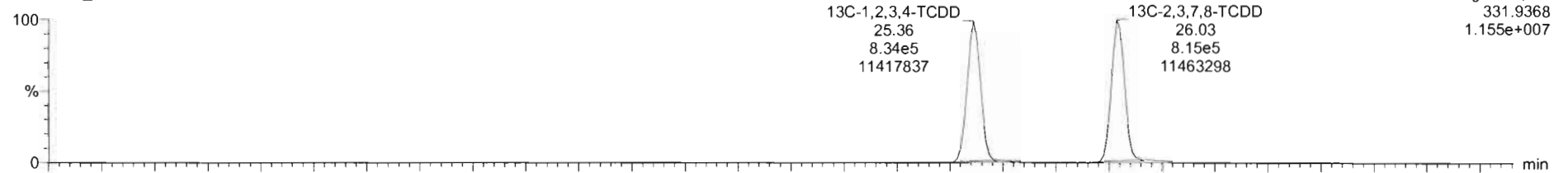


200518R2_8

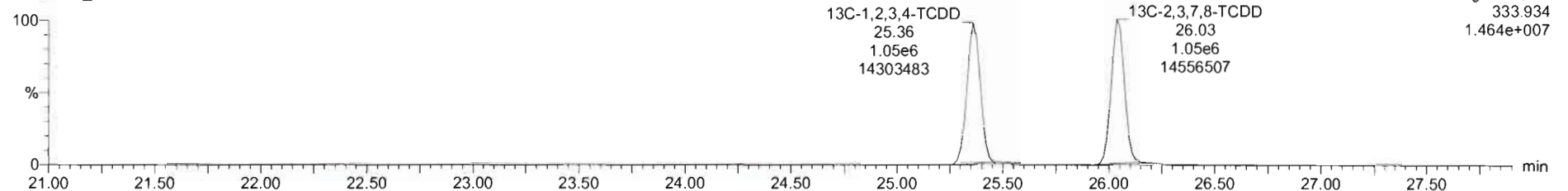


13C-2,3,7,8-TCDD

200518R2_8

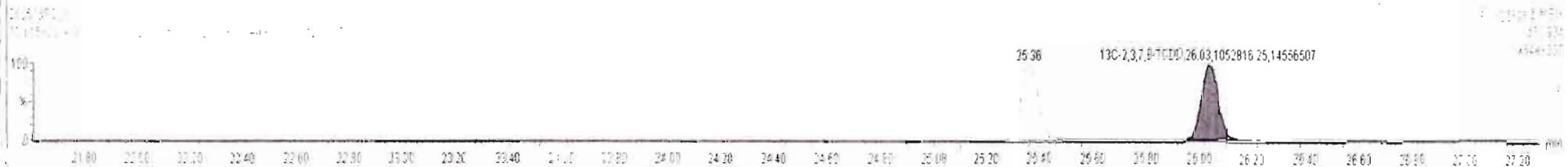
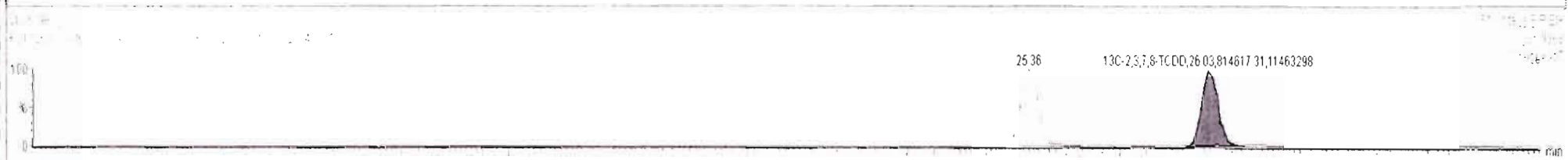
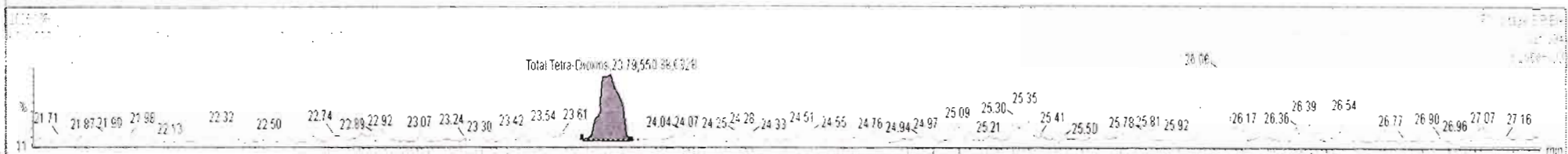
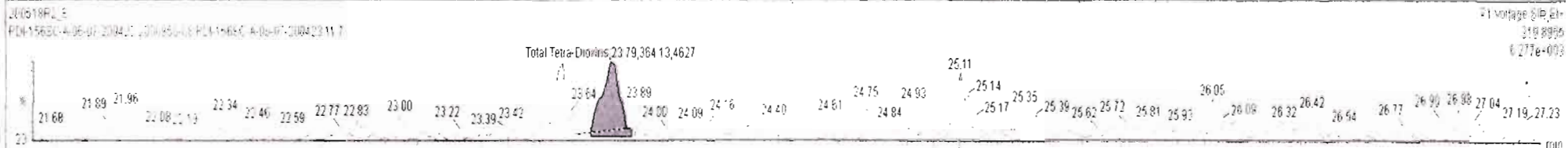


200518R2_8



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.056			0.103		0.0420	0.103
40 Total Penta-Dioxins				0.9425	10.056			0.000		0.0206	0.150
41 Total Hexa-Dioxins				0.9145	10.056			1.15		0.0734	1.15
42 Total Hepta-Dioxins				0.8978	10.056			3.76		0.0817	3.78

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.79	3.641e2	5.504e2	0.66	NO	0.10280	0.10280



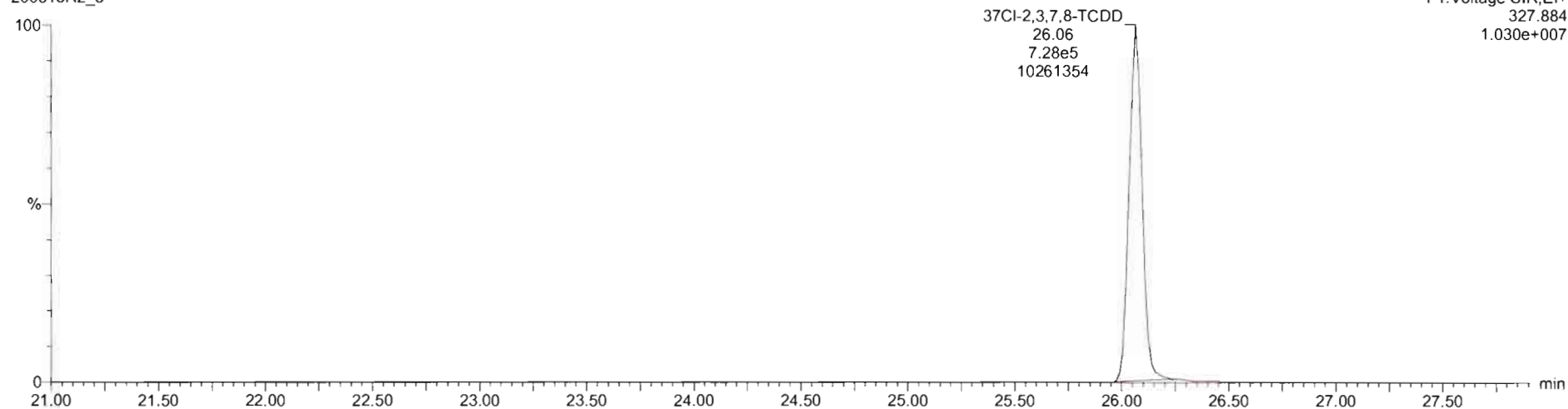
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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

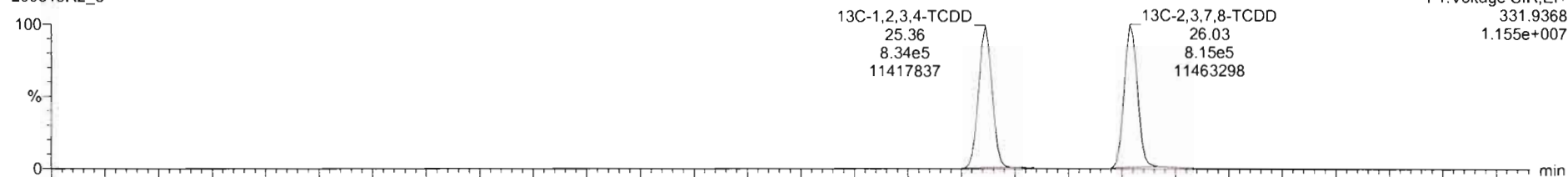
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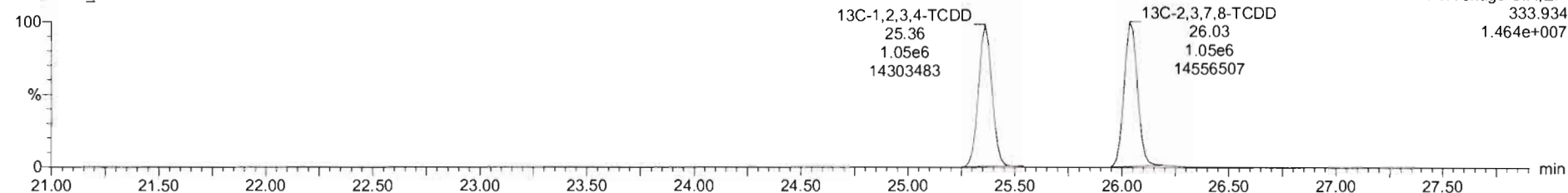


13C-1,2,3,4-TCDD

200518R2_8



200518R2_8



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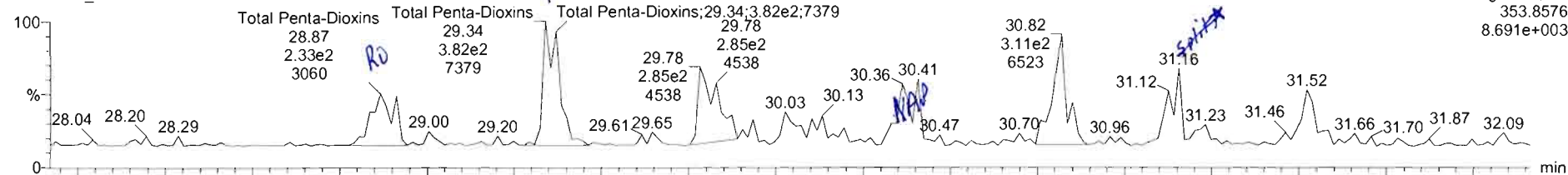
Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

** by 05-19-2020*

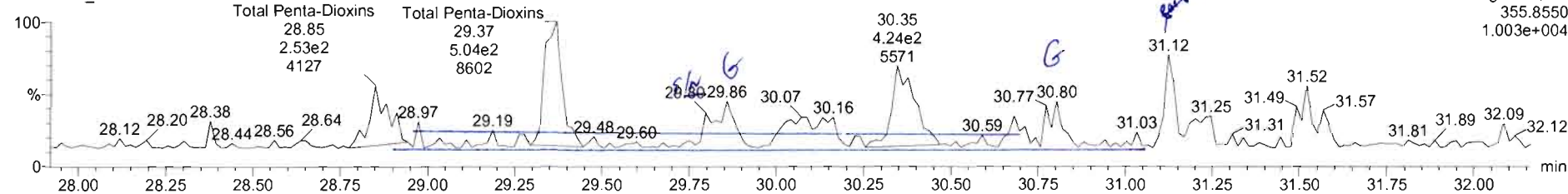
1,2,3,7,8-PeCDD

200518R2_8



F2:Voltage SIR,EI+
353.8576
8.691e+003

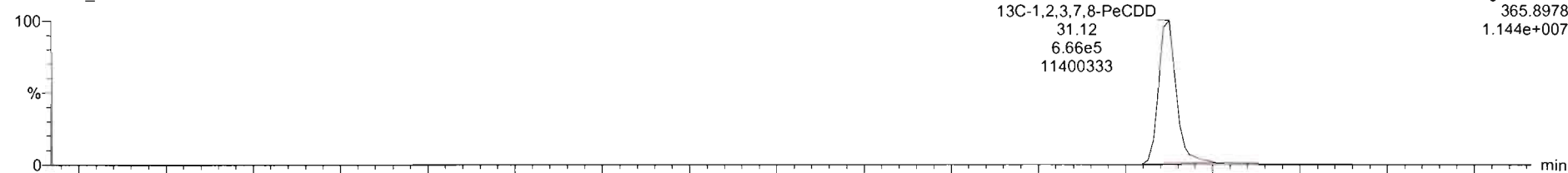
200518R2_8



F2:Voltage SIR,EI+
355.8550
1.003e+004

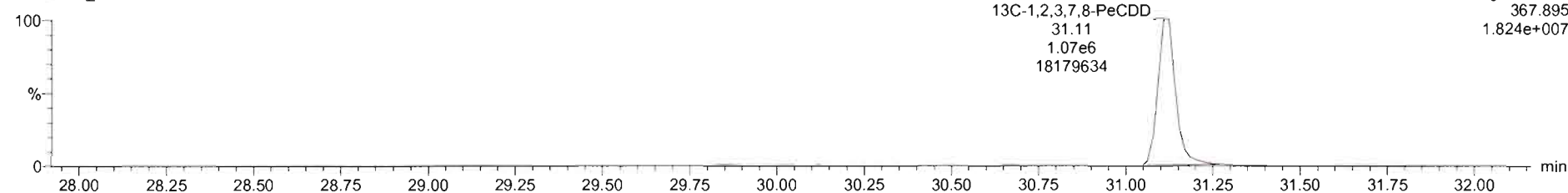
13C-1,2,3,7,8-PeCDD

200518R2_8



F2:Voltage SIR,EI+
365.8978
1.144e+007

200518R2_8



F2:Voltage SIR,EI+
367.895
1.824e+007

200518R2_8 - 2000950-08 PDI-156SC-A-06-07-200423 11.7 - PDI-156SC-A-06-07-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.056			0.103	0.0420	0.103	
40 Total Penta-Dioxins				0.9425	10.056			0.000	0.0206	0.150	
41 Total Hexa-Dioxins				0.9145	10.056			1.15	0.0734	1.15	
42 Total Hepta-Dioxins				0.8978	10.056			3.76	0.0917	3.76	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Penta-Dioxins	28.87	2.334e2	2.534e2	0.92	YES	0.050170	0.00000
2 Total Penta-Dioxins	29.34	3.816e2	5.037e2	0.76	YES	0.039704	0.00000

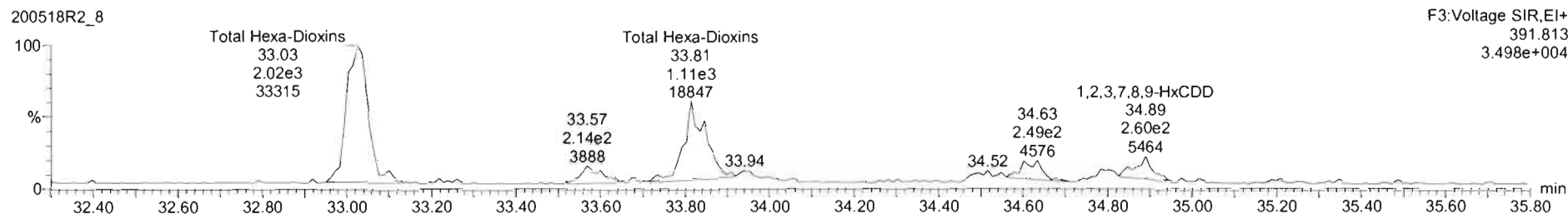
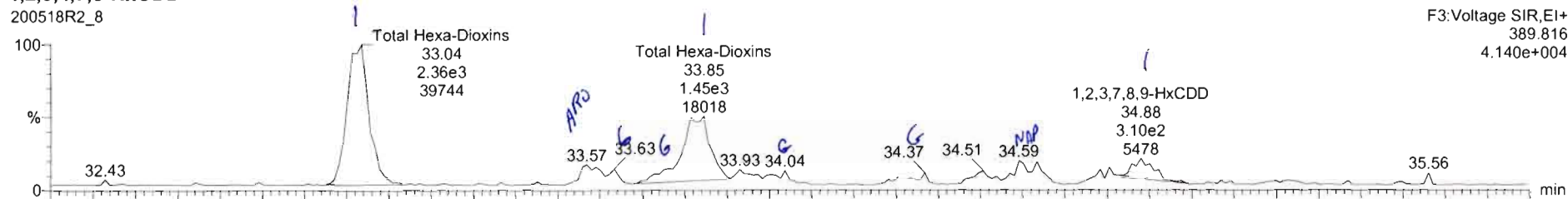


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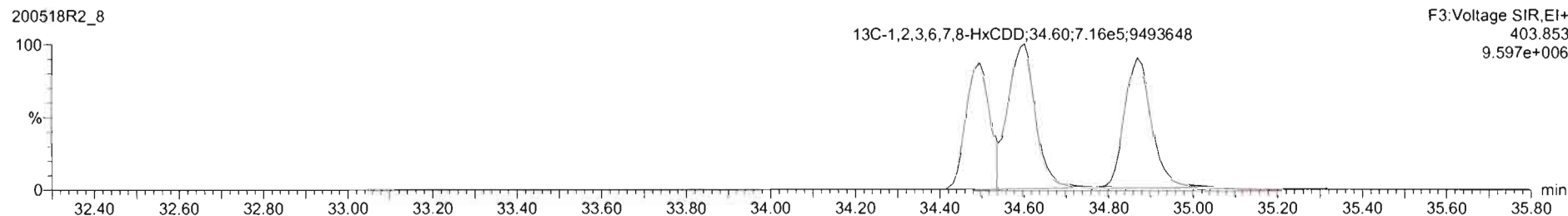
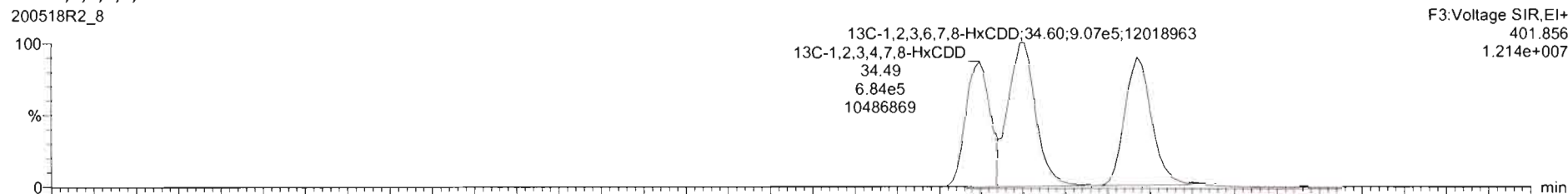
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Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

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



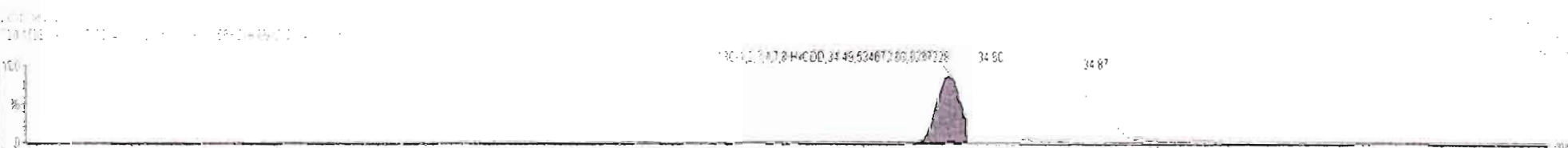
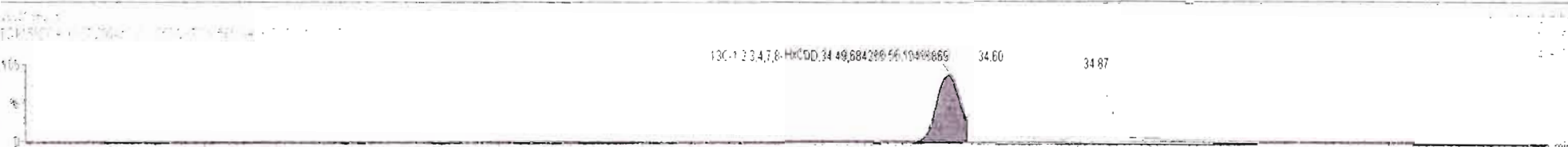
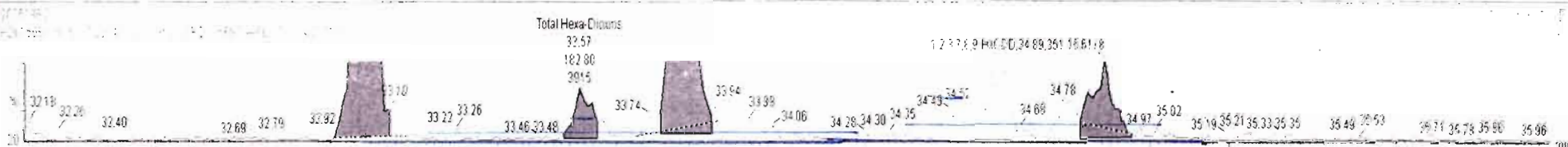
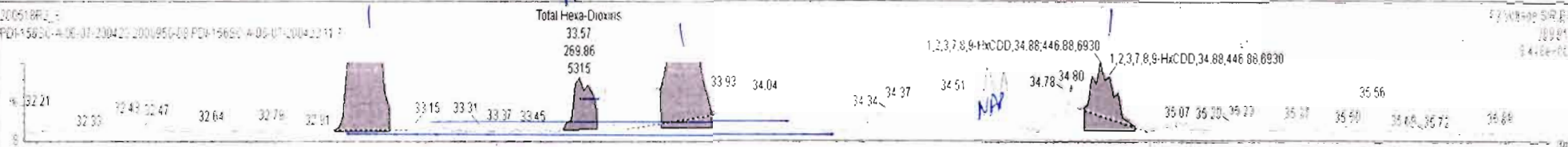
13C-1,2,3,4,7,8-HxCDD



200518R2_8 - 2000950-08 PDI-156SC-A-06-07-200423 11.7 - PDI-156SC-A-06-07-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.056			0.103	0.0420	0.103	
40 Total Penta-Dioxins				0.9425	10.055			0.000	0.0206	0.145	
41 Total Hexa-Dioxins				0.9145	10.056			1.16	0.0734	1.23	
42 Total Hepta-Dioxins				0.8979	10.056			3.76	0.0917	3.76	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.04	2.334e3	1.968e3	1.19	NO	0.66048	0.66048
2 Total Hexa-Dioxins	33.57	2.699e2	1.829e2	1.46	YES	0.062990	0.00000
3 Total Hexa-Dioxins	33.65	1.375e3	1.104e3	1.25	NO	0.36070	0.36070
4 1,2,3,7,8,9-HxCDD	34.68	4.469e2	3.512e2	1.27	NO	0.12314	0.12314



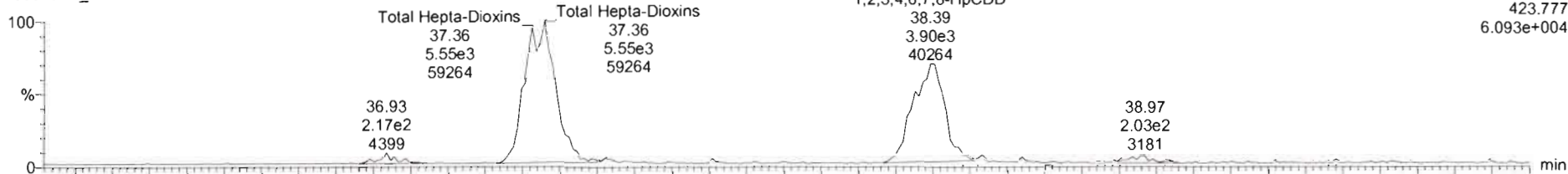
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

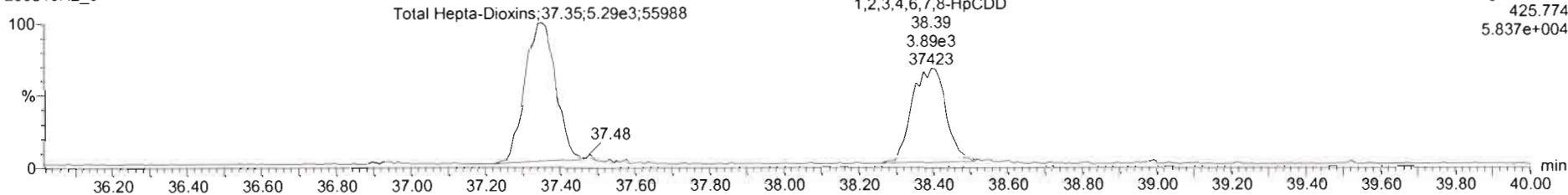
Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

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

200518R2_8

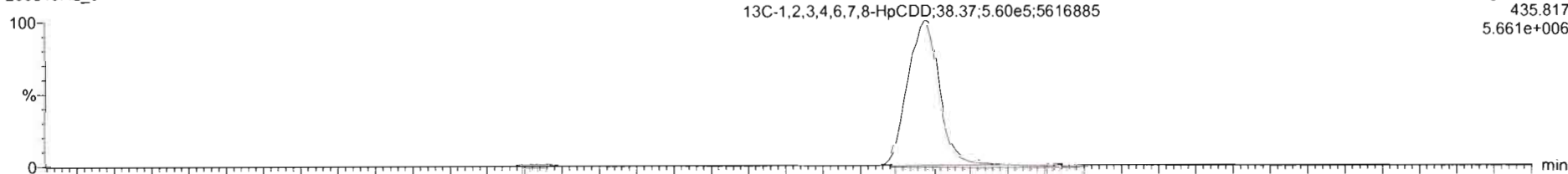


200518R2_8

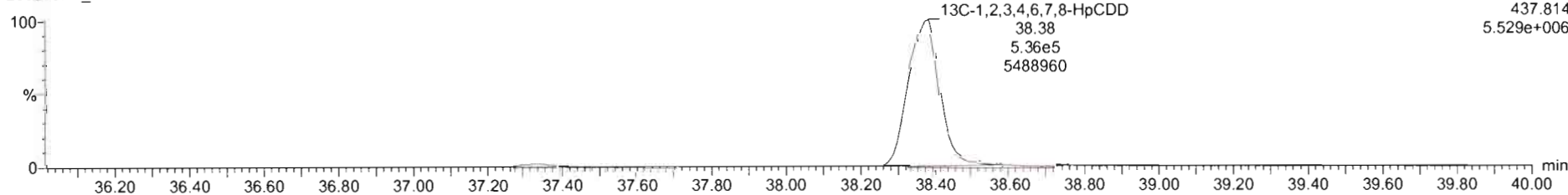


13C-1,2,3,4,6,7,8-HpCDD

200518R2_8



200518R2_8

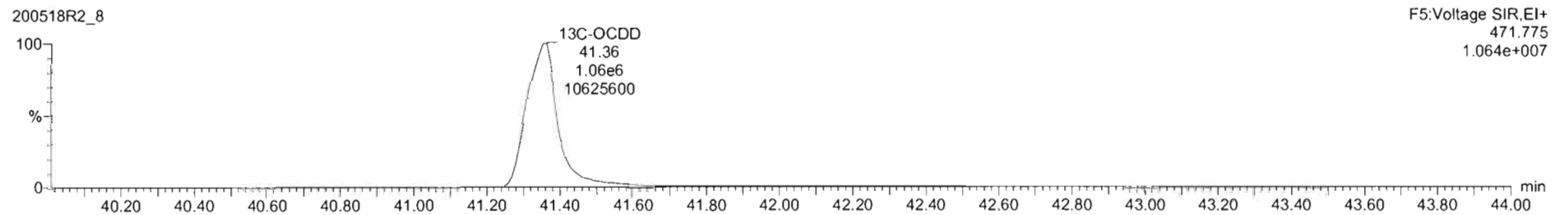
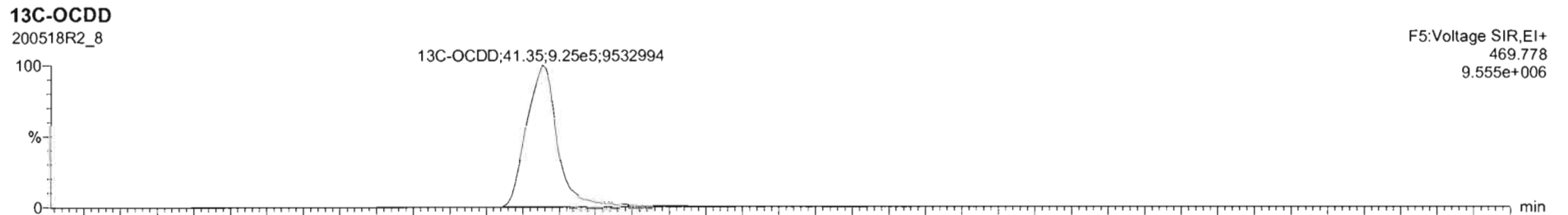
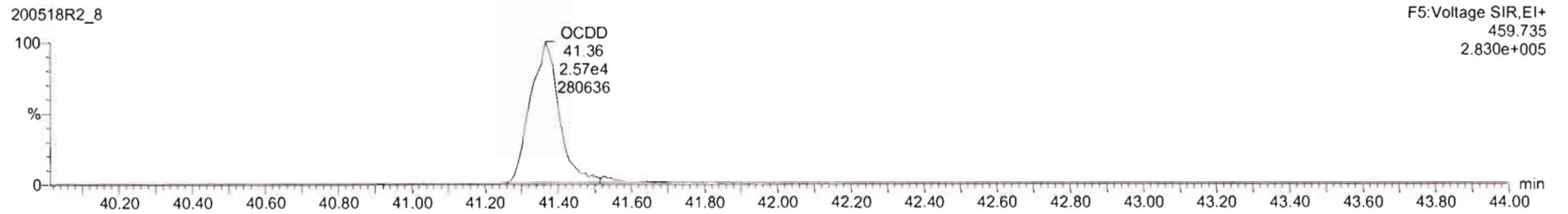
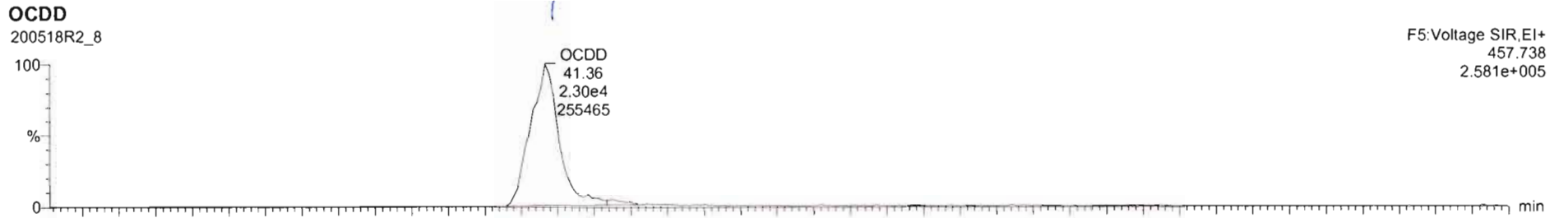


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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time

Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

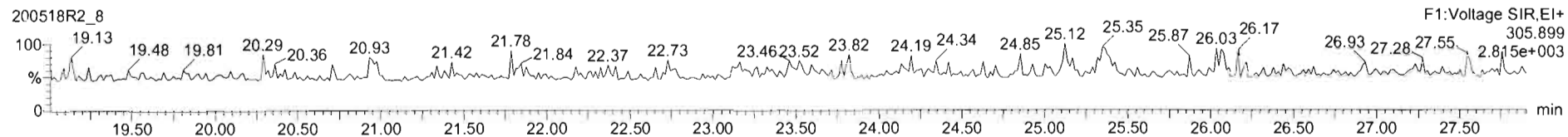
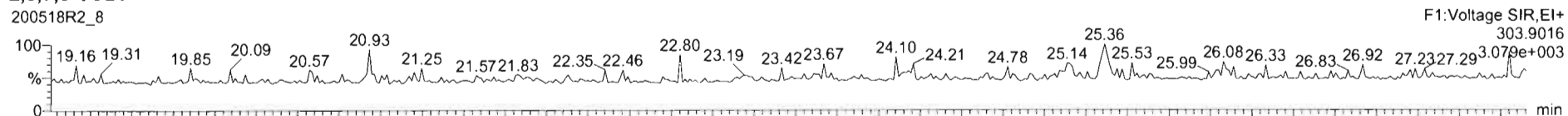


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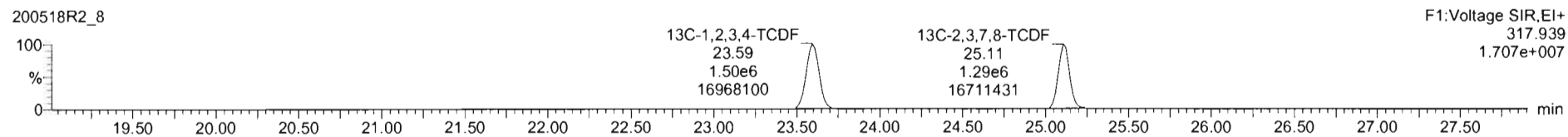
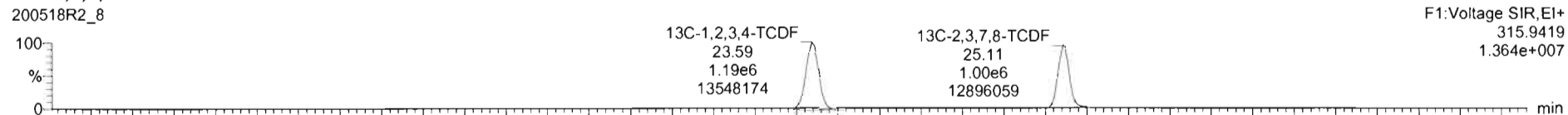
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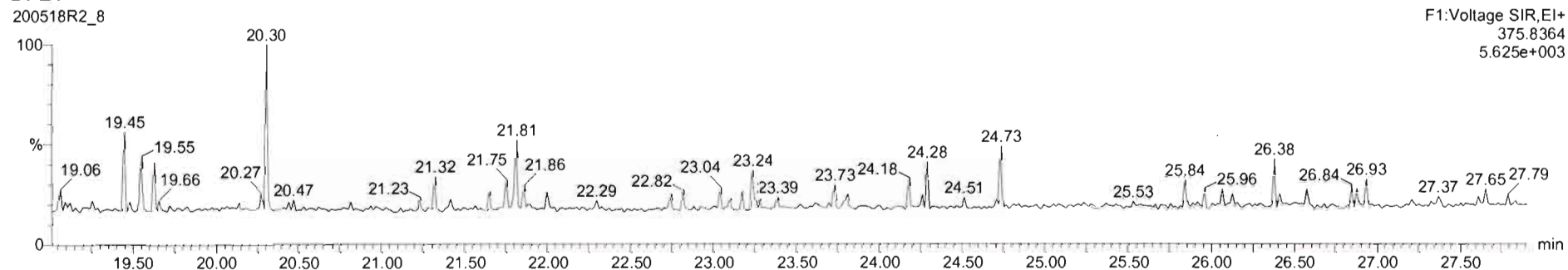
2,3,7,8-TCDF



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



DPE1



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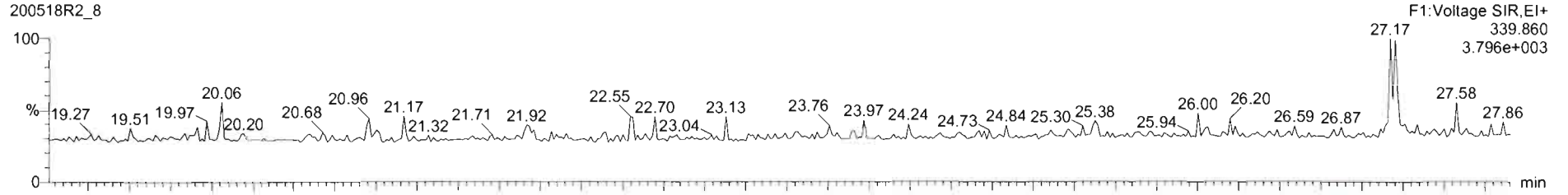
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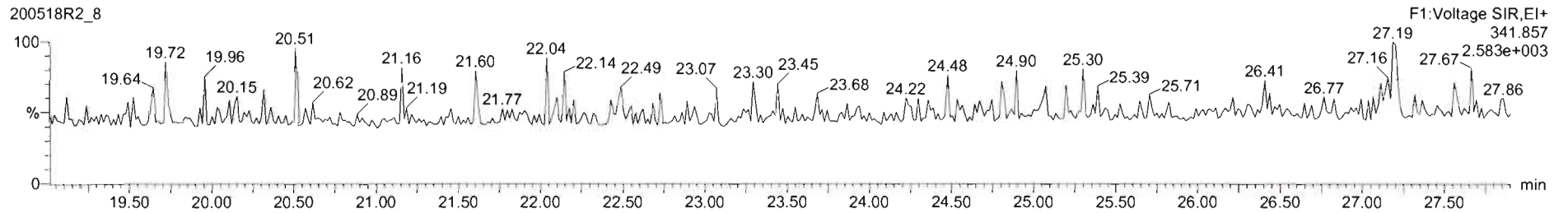
Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

1st Func. Penta-Furans

200518R2_8

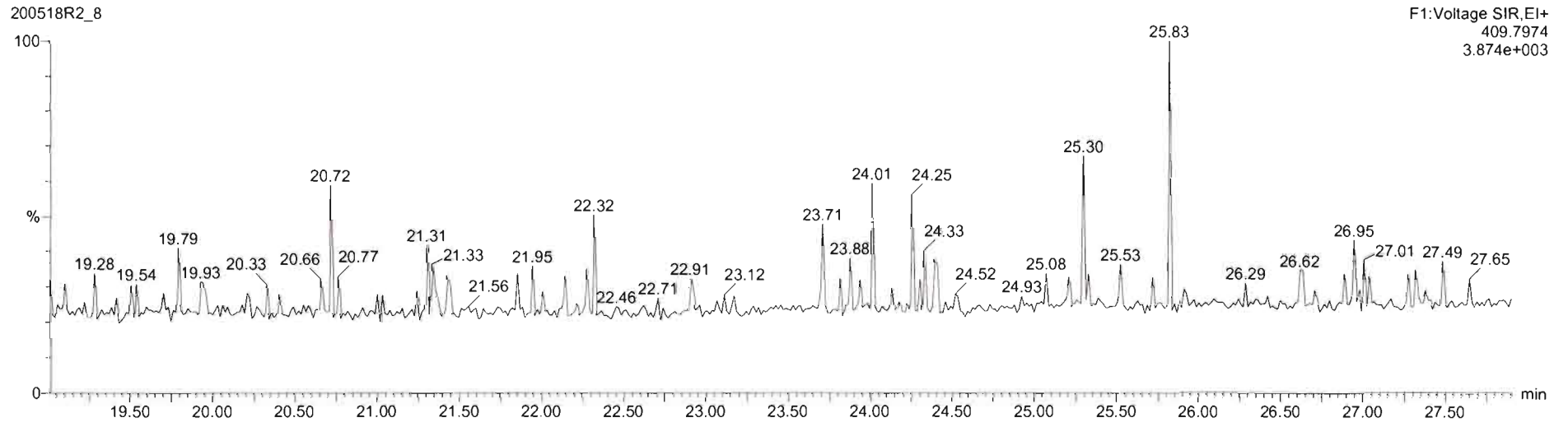


200518R2_8



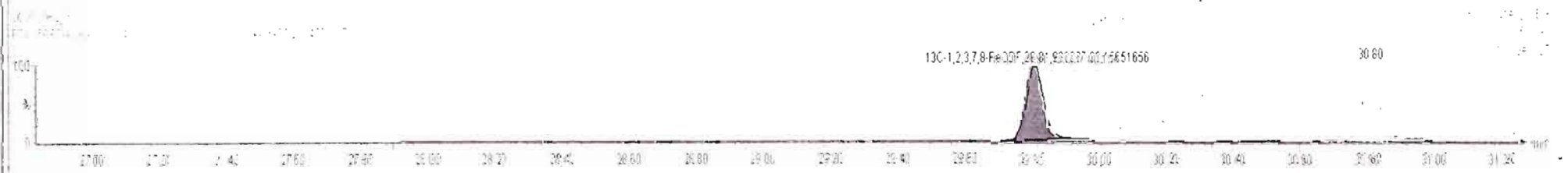
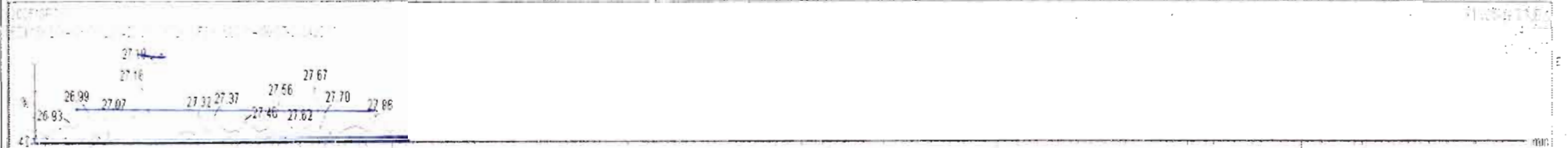
DPE6

200518R2_8



#	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7871	10.056					0.00917	
44	1st Func. Penta-Furans				0.9102	10.056					0.00362	
45	Total Penta-Furans				0.9102	10.056					0.00789	
46	Total Hexa-Furans				0.9217	10.056					0.0177	

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



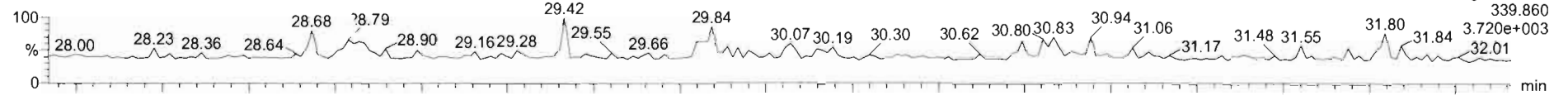
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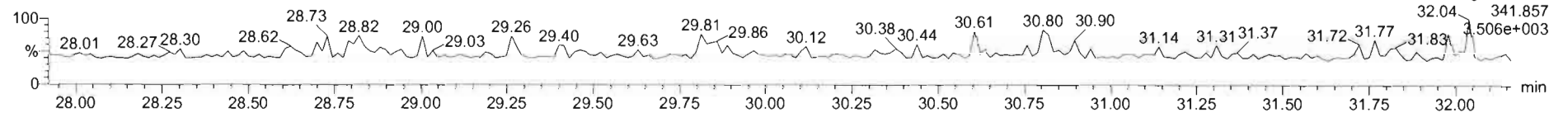
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1,2,3,7,8-PeCDF

200518R2_8

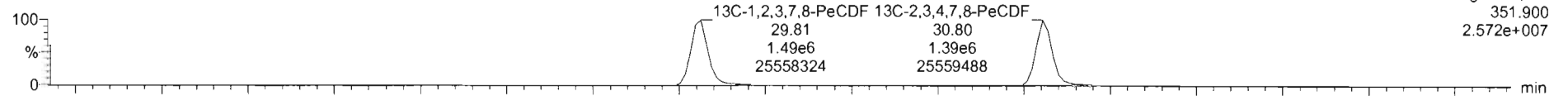


200518R2_8

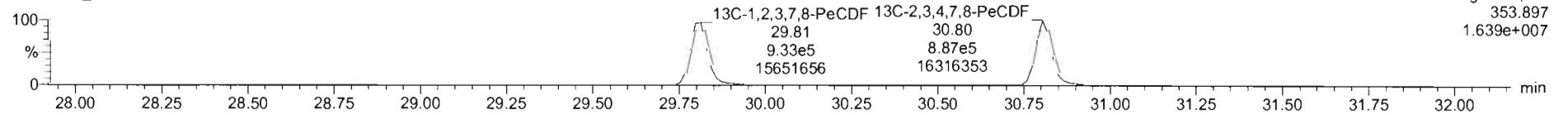


13C-1,2,3,7,8-PeCDF

200518R2_8

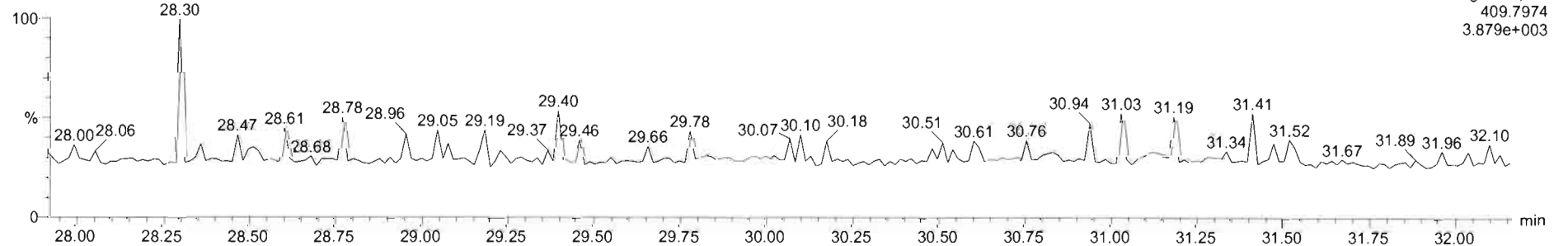


200518R2_8



DPE2

200518R2_8

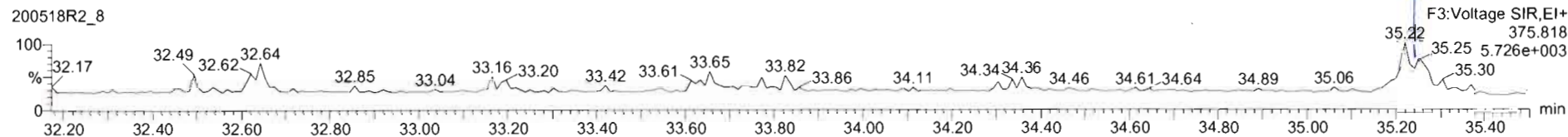
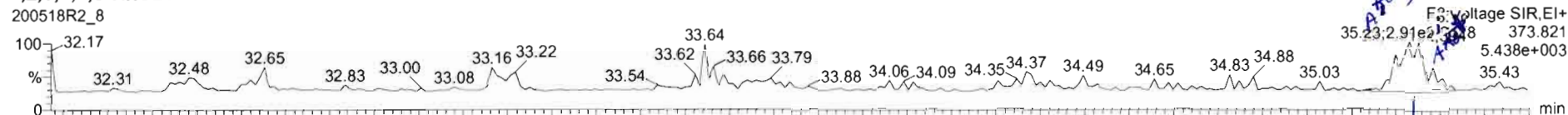


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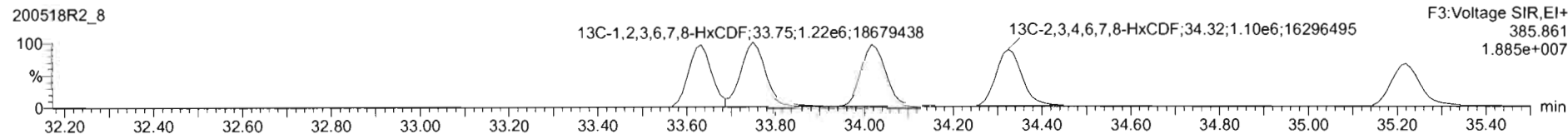
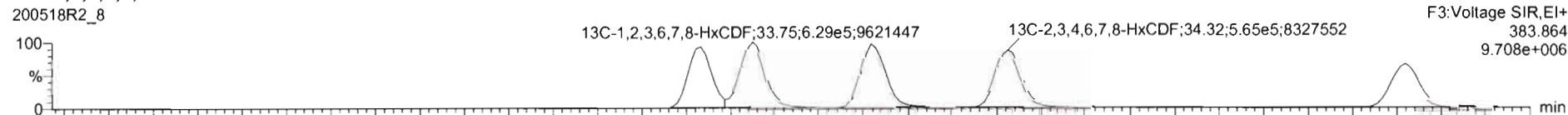
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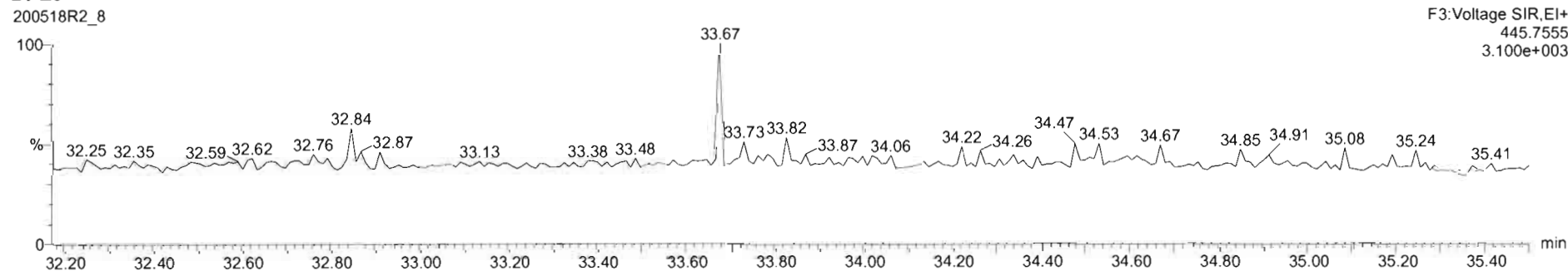
1,2,3,4,7,8-HxCDF



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



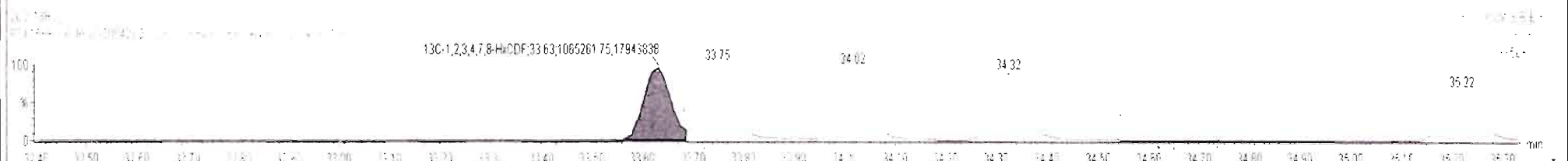
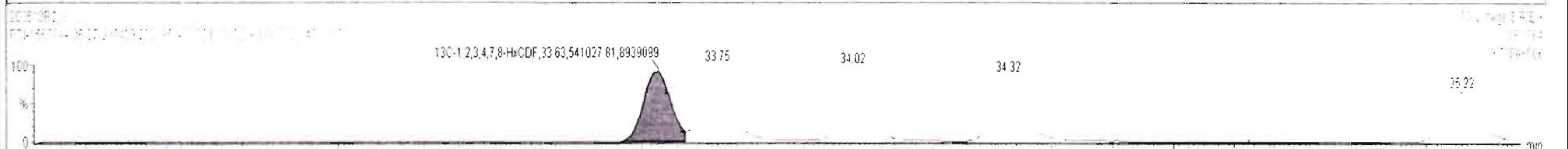
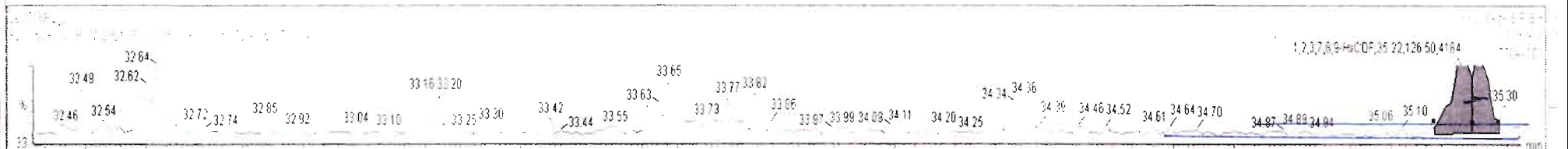
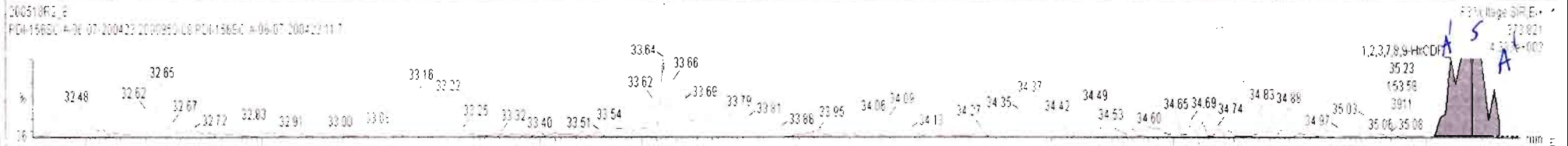
DPE3



200518R2_8 - 2000950-08 PDI-156SC-A-06-07-200423 11 7 - PDI-156SC-A-06-07-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.056					0.00917	
44 1st Func. Penta-Furans				0.9102	10.056					0.00362	
45 Total Penta-Furans				0.9102	10.056					0.00788	
46 Total Hexa-Furans				0.9217	10.056			0.0701		0.0177	0.0701

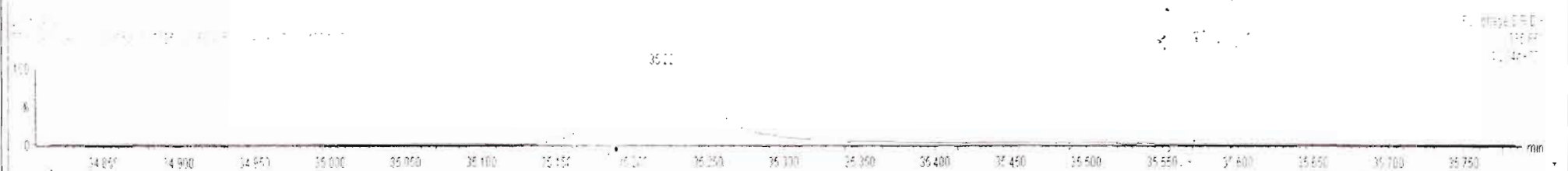
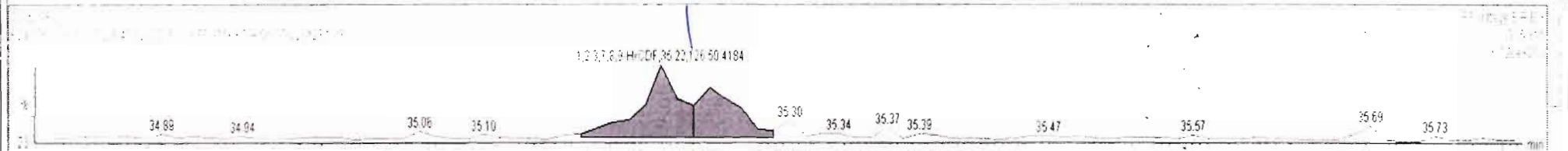
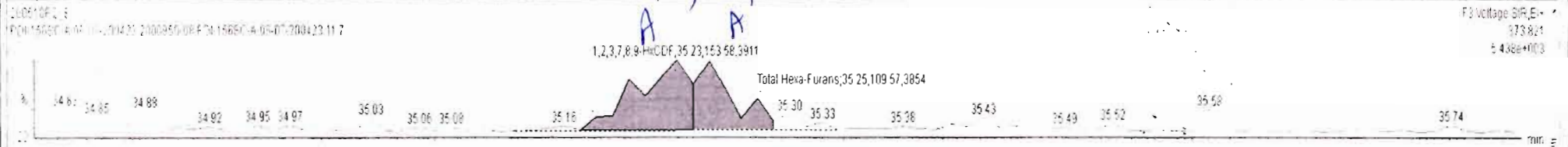
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8,9-HxCDF	35.23	1.536e2	1.265e2	1.21	NO	0.043997	0.043997
2 Total Hexa-Furans	35.25	1.096e2	8.964e1	1.22	NO	0.026124	0.026124



200518R2_8 - 2000950-08-PDI-156SC-A-06-07-200423 11.7 - PDI-156SC-A-06-07-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.056					0.00917	
44 1st Func. Penta-Furans				0.5102	10.056					0.00362	
45 Total Penta-Furans				0.9102	10.056					0.00786	
46 Total Hexa-Furans				0.9217	10.056			0.0701		0.0177	0.0701

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,7,8,9-HxCDF	35.23	1.536e2	1.265e2	1.21	NO	0.043997	0.043997
2 Total Hexa-Furans	35.25	1.096e2	8.964e1	1.22	NO	0.026124	0.026124

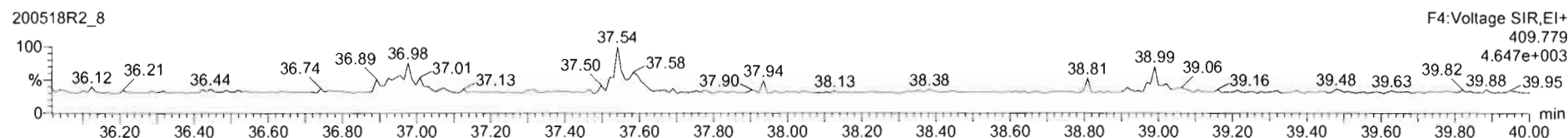
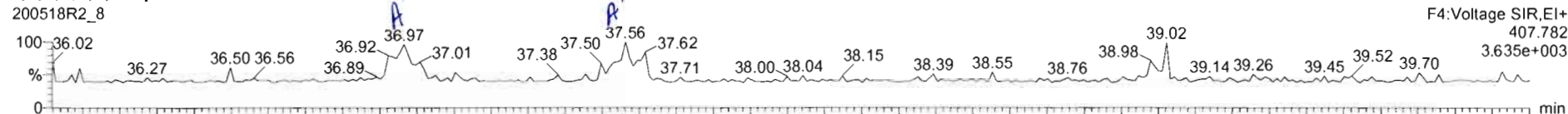


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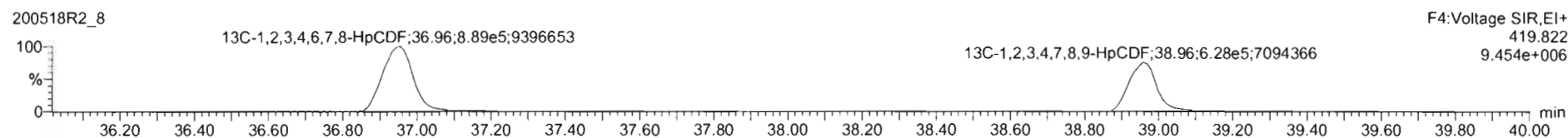
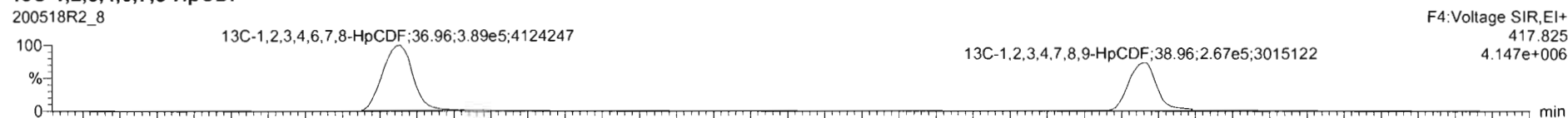
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Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423

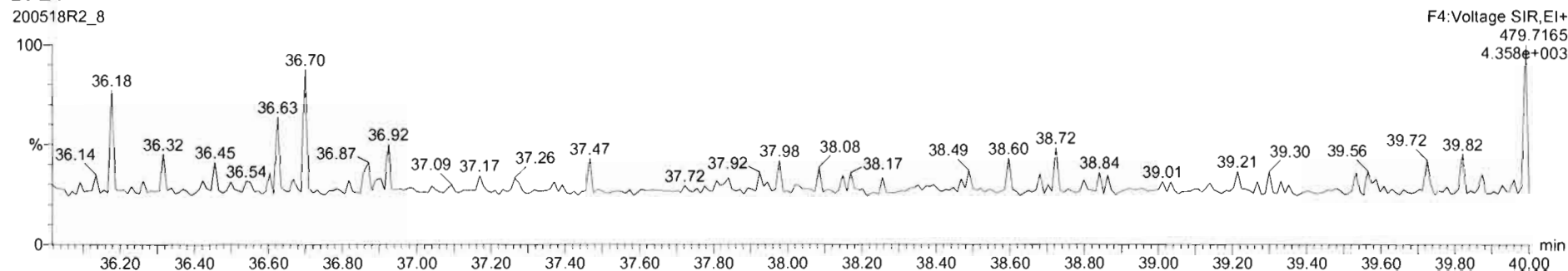
1,2,3,4,6,7,8-HpCDF



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

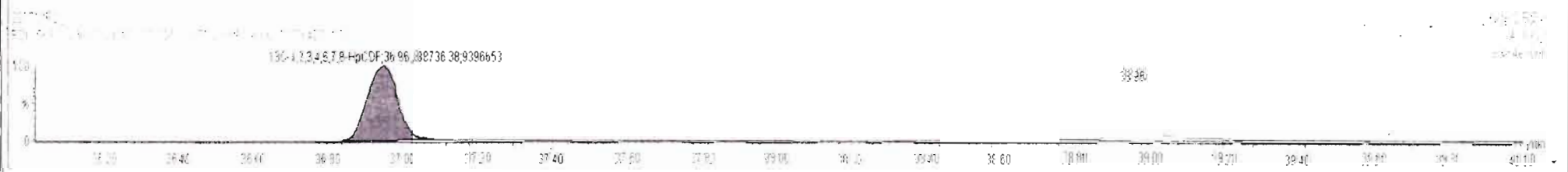
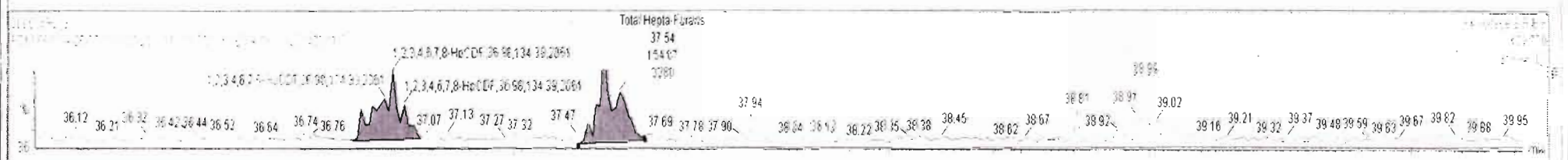
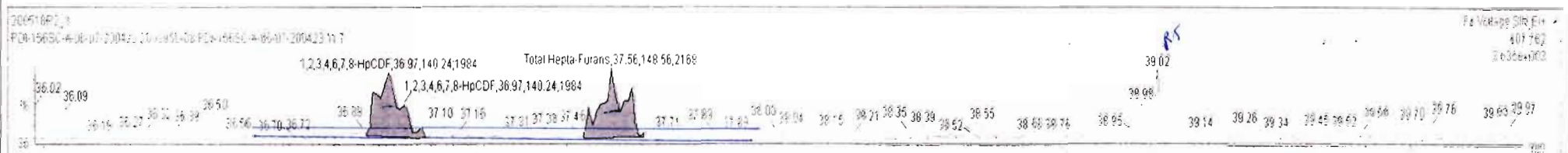


DPE4



ID	Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7871	10.056					0.00917	
44	1st Func. Penta-Furans				0.9102	10.056					0.00362	
45	Total Penta-Furans				0.9102	10.056					0.00788	
46	Total Hexa-Furans				0.9217	10.056			0.0701		0.0177	0.0701

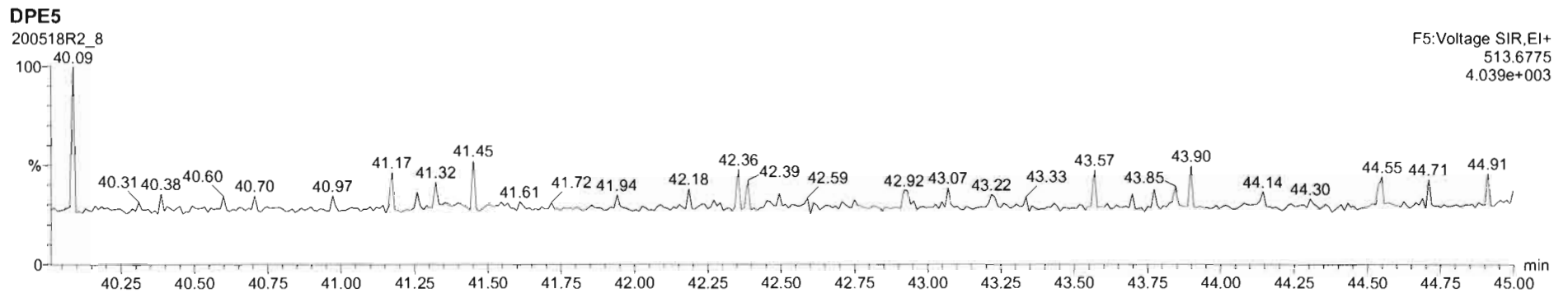
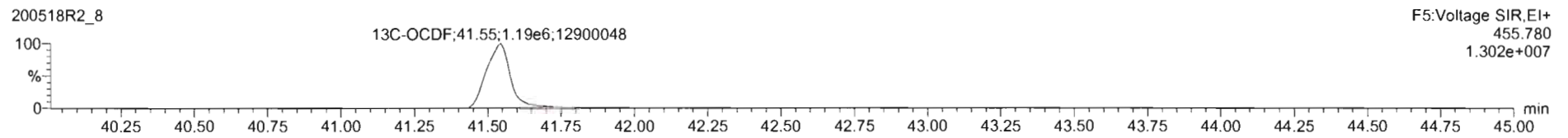
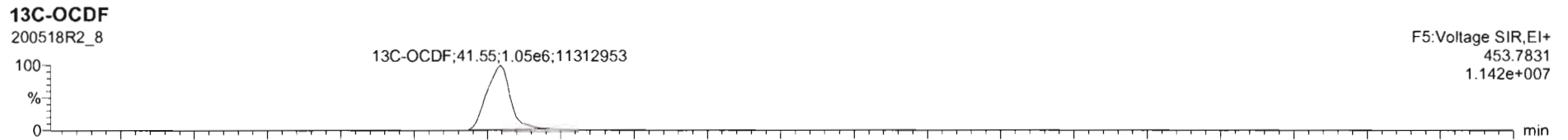
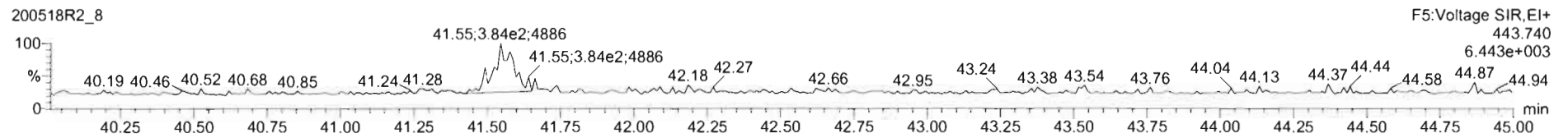
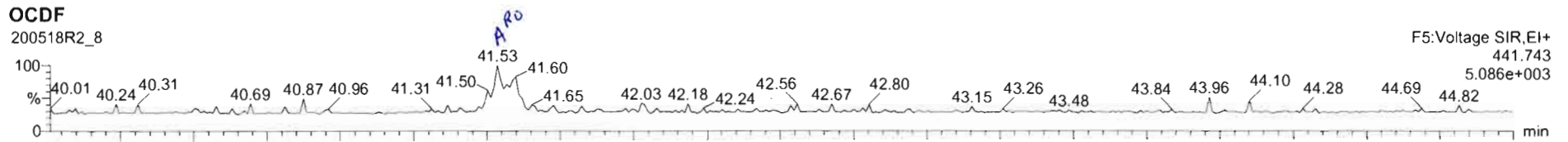
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1	1,2,3,4,6,7,8-HpCDF	36.97	1.402e2	1.344e2	1.04	NO	0.049085	0.049085
2	Total Hepta-Furans	37.56	1.486e2	1.541e2	0.96	NO	0.063614	0.063614



Dataset: Untitled

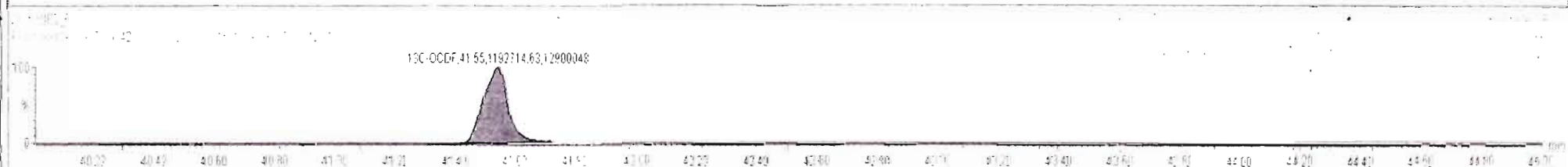
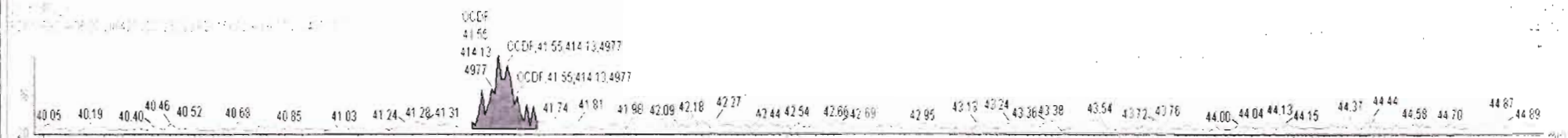
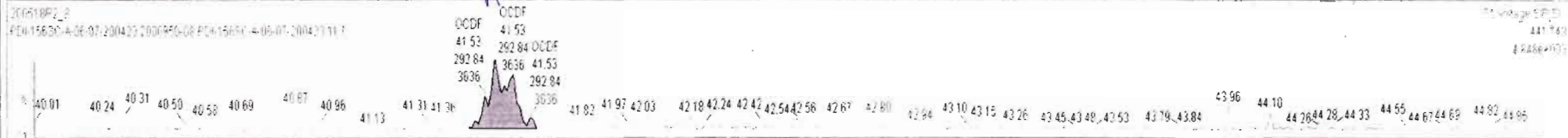
Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
17 OCDF	7.07e2	0.71	YES	0.8021	10.056	41.53	1.000	0.157		0.0502	0.138
18 13C-2,3,7,8-1CDD	1.87e6	0.77	NO	1.1595	10.056	26.03	1.027	170	85.5		0.141
19 13C-1,2,3,7,8-PeCDD	1.74e6	0.62	NO	0.8472	10.056	31.13	1.227	217	105		0.166
20 13C-1,2,3,4,7,8-HxCDD	1.22e6	1.28	NO	0.7499	10.056	34.43	1.014	191	95.9		0.378

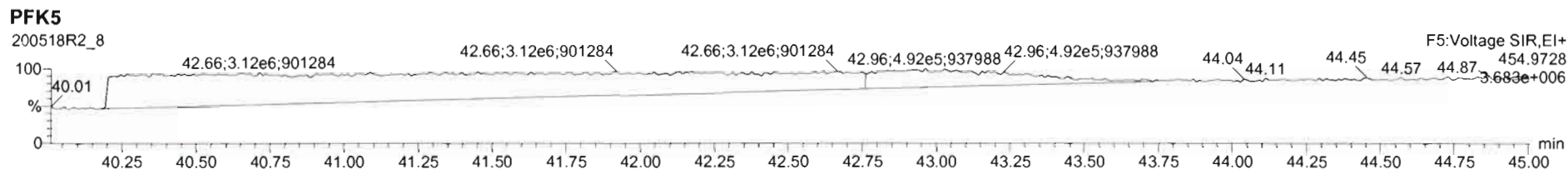
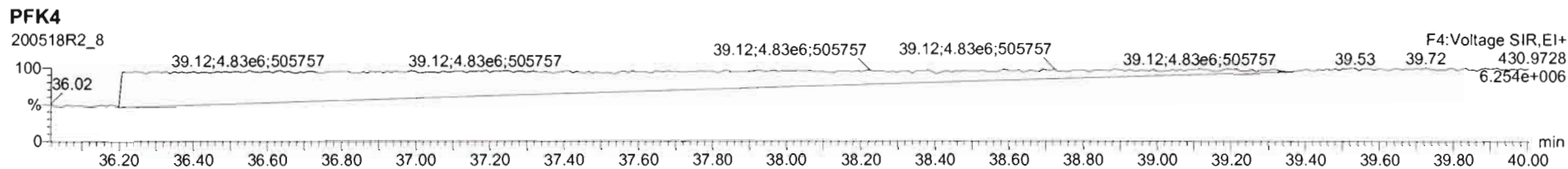
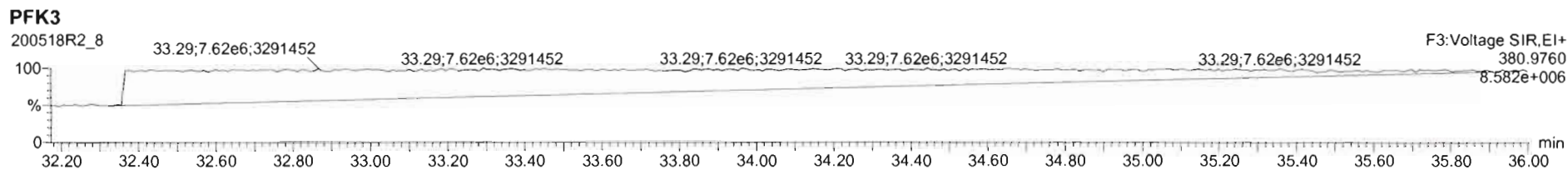
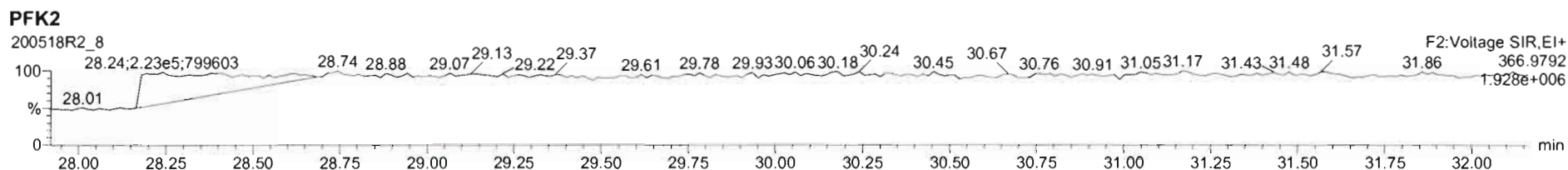
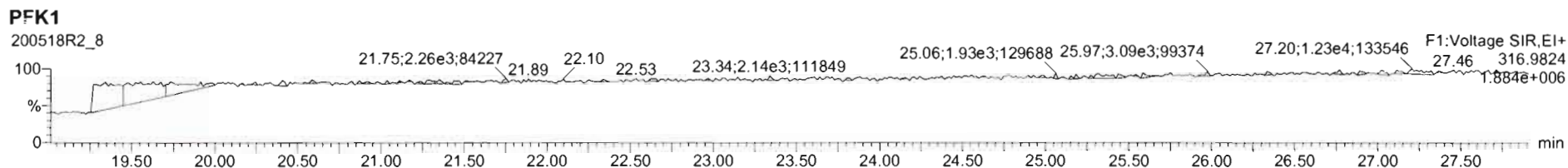
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_8, Date: 18-May-2020, Time: 19:26:14, ID: 2000950-08 PDI-156SC-A-06-07-200423 11.7, Description: PDI-156SC-A-06-07-200423



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-9.qld

Last Altered: Tuesday, May 19, 2020 5:25:14 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 5:30:08 PM Pacific Daylight Time

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C705/72/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_9, Date: 18-May-2020, Time: 20:12:24, ID: 2000950-09 PDI-156SC-A-07-08-200423 12.81, Description: PDI-156SC-A-07-08-200423

	# 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	0.947	10.042	26.066		1.001				0.0531	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.042	31.132		1.001				0.0548	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.042	34.505		1.000				0.0753	
4	4 1,2,3,6,7,8-HxCDD	6.00e2	1.42	NO	0.915	10.042	34.601	34.62	1.000	1.001	0.11339		0.0722	0.113
5	5 1,2,3,7,8,9-HxCDD	5.75e2	1.29	NO	0.915	10.042	34.888	34.88	1.000	1.000	0.097351		0.0685	0.0974
6	6 1,2,3,4,6,7,8-HpCDD	6.53e3	0.99	NO	0.898	10.042	38.394	38.38	1.000	1.000	1.5709		0.109	1.57
7	7 OCDD	6.72e4	0.89	NO	0.933	10.042	41.364	41.38	1.000	1.000	17.297		0.139	17.3
8	8 2,3,7,8-TCDF			NO	0.787	10.042	25.132		1.001				0.0324	
9	9 1,2,3,7,8-PeCDF			NO	0.910	10.042	29.834		1.001				0.0221	
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.042	30.835		1.001				0.0214	
11	11 1,2,3,4,7,8-HxCDF			NO	0.878	10.042	33.632		1.000				0.0264	
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.042	33.759		1.000				0.0252	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.042	34.358		1.001				0.0267	
14	14 1,2,3,7,8,9-HxCDF	2.89e2	1.55	YES	0.864	10.042	35.219	35.24	1.000	1.001	0.062426		0.0228	0.0548
15	15 1,2,3,4,6,7,8-HpCDF	3.25e2	0.91	NO	0.871	10.042	36.992	36.98	1.001	1.001	0.070848		0.0208	0.0708
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.042	38.968		1.000				0.0511	
17	17 OCDF	6.68e2	0.93	NO	0.802	10.042	41.556	41.57	1.000	1.000	0.16626		0.0493	0.166
18	18 13C-2,3,7,8-TCDD	1.20e6	0.77	NO	1.16	10.042	26.031	26.03	1.026	1.027	127.47	64.0	0.124	
19	19 13C-1,2,3,7,8-PeCDD	1.14e6	0.63	NO	0.847	10.042	31.123	31.11	1.227	1.227	165.55	83.1	0.145	
20	20 13C-1,2,3,4,7,8-HxCDD	8.83e5	1.35	NO	0.750	10.042	34.506	34.49	1.014	1.014	154.71	77.7	0.381	
21	21 13C-1,2,3,6,7,8-HxCDD	1.15e6	1.21	NO	0.963	10.042	34.618	34.60	1.017	1.017	157.12	78.9	0.297	
22	22 13C-1,2,3,7,8,9-HxCDD	1.29e6	1.22	NO	0.838	10.042	34.887	34.88	1.025	1.025	201.68	101	0.341	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.22e5	1.06	NO	0.641	10.042	38.378	38.38	1.128	1.128	188.81	94.8	0.306	
24	24 13C-OCDD	1.66e6	0.90	NO	0.586	10.042	41.372	41.36	1.216	1.216	371.37	93.2	0.463	
25	25 13C-2,3,7,8-TCDF	1.40e6	0.77	NO	1.03	10.042	25.090	25.11	0.989	0.990	113.67	57.1	0.201	
26	26 13C-1,2,3,7,8-PeCDF	1.52e6	1.59	NO	0.845	10.042	29.812	29.81	1.176	1.176	151.33	76.0	0.228	
27	27 13C-2,3,4,7,8-PeCDF	1.39e6	1.60	NO	0.814	10.042	30.803	30.80	1.215	1.215	143.91	72.3	0.236	
28	28 13C-1,2,3,4,7,8-HxCDF	1.16e6	0.51	NO	1.00	10.042	33.645	33.63	0.989	0.988	151.82	76.2	0.394	
29	29 13C-1,2,3,6,7,8-HxCDF	1.34e6	0.52	NO	1.14	10.042	33.767	33.75	0.992	0.992	154.43	77.5	0.349	
30	30 13C-2,3,4,6,7,8-HxCDF	1.24e6	0.52	NO	1.02	10.042	34.336	34.32	1.009	1.009	159.40	80.0	0.388	
31	31 13C-1,2,3,7,8,9-HxCDF	1.07e6	0.53	NO	0.845	10.042	35.227	35.22	1.035	1.035	166.05	83.4	0.469	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-9.qld

Last Altered: Tuesday, May 19, 2020 5:25:14 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 5:30:08 PM Pacific Daylight Time

Name: 200518R2_9, Date: 18-May-2020, Time: 20:12:24, ID: 2000950-09 PDI-156SC-A-07-08-200423 12.81, Description: PDI-156SC-A-07-08-200423

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.05e6	0.43	NO	0.771	10.042	36.959	36.96	1.086	1.086	178.39	89.6	0.388	
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.81e5	0.42	NO	0.482	10.042	38.970	38.97	1.145	1.145	185.62	93.2	0.620	
34	34 13C-OCDF	1.99e6	0.87	NO	0.669	10.042	41.542	41.56	1.221	1.221	391.80	98.4	0.507	
35	35 37Cl-2,3,7,8-TCDD	4.63e5			1.10	10.042	26.061	26.07	1.028	1.028	51.886	65.1	0.0315	
36	36 13C-1,2,3,4-TCDD	1.62e6	0.78	NO	1.00	10.042	25.350	25.36	1.000	1.000	199.16	100	0.144	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.78	NO	1.00	10.042	23.560	23.58	1.000	1.000	199.16	100	0.208	
38	38 13C-1,2,3,4,6,9-HxCDF	1.52e6	0.52	NO	1.00	10.042	34.000	34.03	1.000	1.000	199.16	100	0.396	
39	39 Total Tetra-Dioxins				0.947	10.042	24.620		0.000				0.0318	
40	40 Total Penta-Dioxins				0.942	10.042	29.960		0.000				0.0221	
41	41 Total Hexa-Dioxins				0.915	10.042	33.635		0.000		1.0876		0.0749	1.09
42	42 Total Hepta-Dioxins				0.898	10.042	37.640		0.000		4.4505		0.109	4.45
43	43 Total Tetra-Furans				0.787	10.042	23.610		0.000				0.0149	
44	44 1st Func. Penta-Furans				0.910	10.042	27.090		0.000				0.00492	
45	45 Total Penta-Furans				0.910	10.042	29.275		0.000				0.00753	
46	46 Total Hexa-Furans				0.922	10.042	33.555		0.000		0.020358		0.0159	0.0752
47	47 Total Hepta-Furans				0.871	10.042	37.835		0.000		0.18112		0.0238	0.181

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-9.qld

Last Altered: Tuesday, May 19, 2020 5:25:14 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 5:30:08 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_9, Date: 18-May-2020, Time: 20:12:24, ID: 2000950-09 PDI-156SC-A-07-08-200423 12.81, Description: PDI-156SC-A-07-08-200423

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	33.04	2.499e4	2.352e4	1.460e3	1.310e3	1.11	NO	2.770e3	0.54489	0.54489	0.0749
2	Total Hexa-Dioxins	33.83	1.303e4	1.190e4	9.295e2	7.581e2	1.23	NO	1.688e3	0.33201	0.33201	0.0749
3	1,2,3,6,7,8-HxCDD	34.62	6.303e3	4.967e3	3.520e2	2.477e2	1.42	NO	5.997e2	0.11339	0.11339	0.0722
4	1,2,3,7,8,9-HxCDD	34.88	3.896e3	3.853e3	3.235e2	2.516e2	1.29	NO	5.751e2	0.097351	0.097351	0.0685

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.34	6.512e4	6.435e4	6.040e3	5.930e3	1.02	NO	1.197e4	2.8796	2.8796	0.109
2	1,2,3,4,6,7,8-HpCDD	38.38	3.258e4	4.215e4	3.243e3	3.286e3	0.99	NO	6.530e3	1.5709	1.5709	0.109

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\200518R2\200518R2-9.qld

Last Altered: Tuesday, May 19, 2020 5:25:14 PM Pacific Daylight Time

Printed: Tuesday, May 19, 2020 5:30:08 PM Pacific Daylight Time

Name: 200518R2_9, Date: 18-May-2020, Time: 20:12:24, ID: 2000950-09 PDI-156SC-A-07-08-200423 12.81, Description: PDI-156SC-A-07-08-200423

Penta-Furans

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

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,7,8,9-HxCDF	35.24	4.161e3	2.345e3	1.759e2	1.134e2	1.55	YES	2.892e2	0.00000	0.054809	0.0228
2	Total Hexa-Furans	35.27	1.782e3	1.478e3	6.081e1	5.239e1	1.16	NO	1.132e2	0.020358	0.020358	0.0159

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	36.98	2.197e3	2.806e3	1.545e2	1.701e2	0.91	NO	3.246e2	0.070848	0.070848	0.0208
2	Total Hepta-Furans	37.57	2.660e3	2.912e3	2.154e2	2.015e2	1.07	NO	4.169e2	0.11027	0.11027	0.0238

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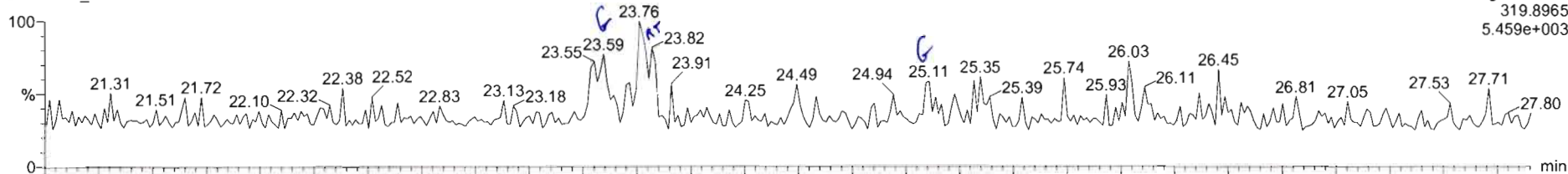
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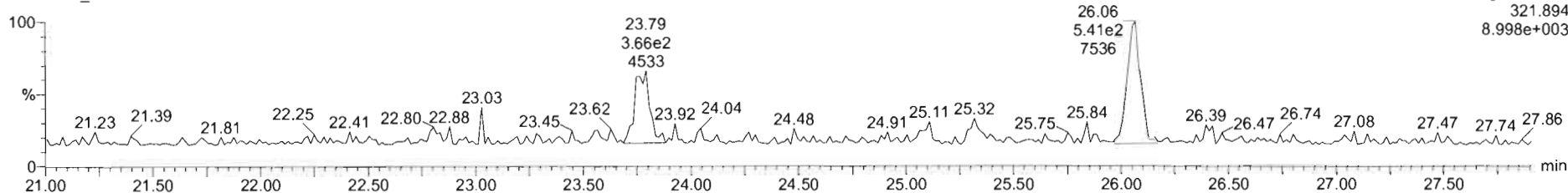
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2,3,7,8-TCDD

200518R2_9

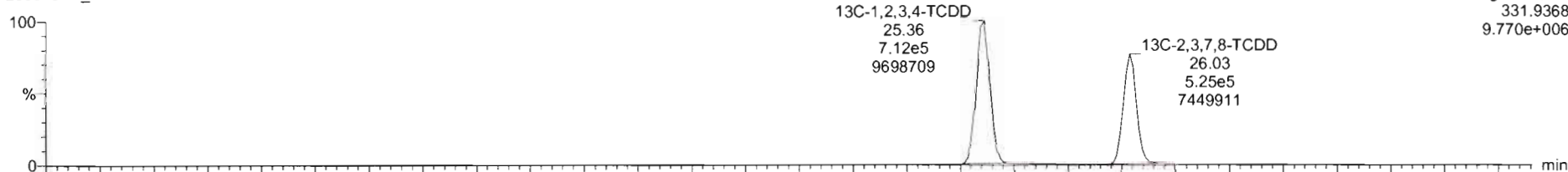


200518R2_9

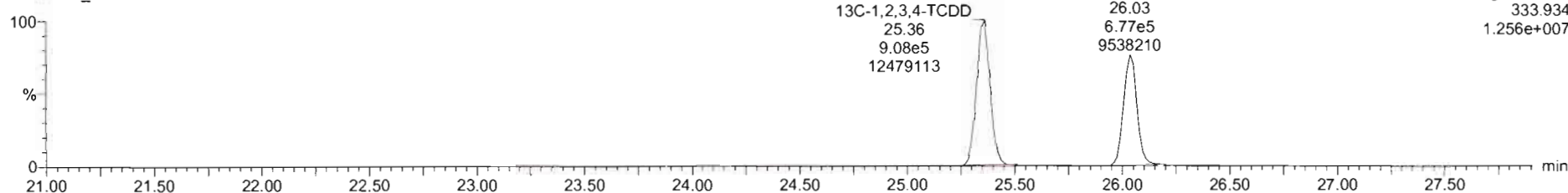


13C-2,3,7,8-TCDD

200518R2_9



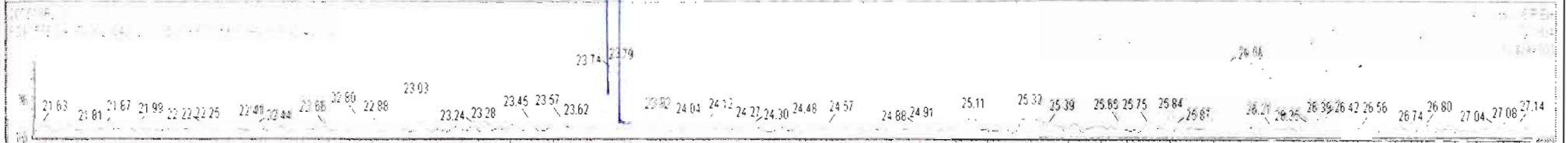
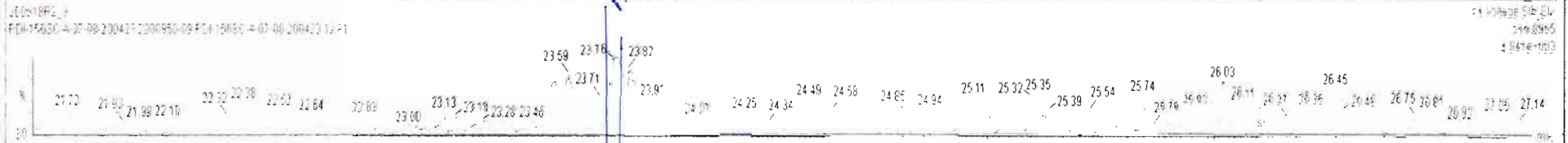
200518R2_9



200518R2_9 - 2000950-09 PDI-156SC-A-07-08-200423 12.81 - PDI-156SC-A-07-08-200423

Name	Resp	RA	nly	RFI	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDD			NO	0.9475	10.042					0.0531	
2 1,2,3,7,8-PeCDD			NO	0.9425	10.042					0.0548	
3 1,2,3,4,7,8-HxCDD			NO	1.0641	10.042					0.0753	
4 1,2,3,6,7,8-HxCDD	5.10e2	1.21	NO	0.9145	10.042	34.62	1.001	0.0965		0.0722	0.0960

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



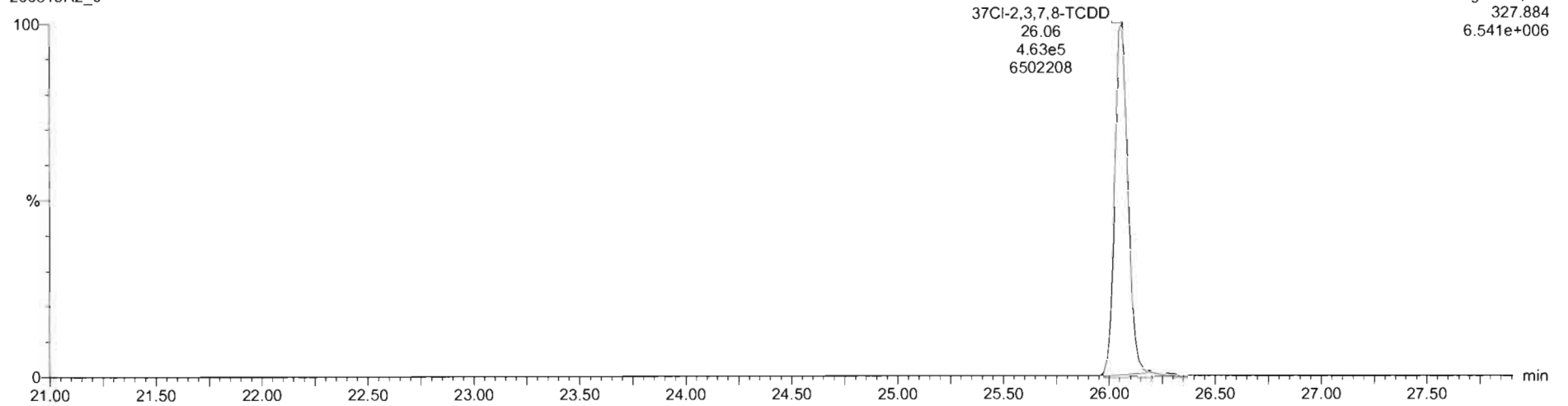
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_9, Date: 18-May-2020, Time: 20:12:24, ID: 2000950-09 PDI-156SC-A-07-08-200423 12.81, Description: PDI-156SC-A-07-08-200423

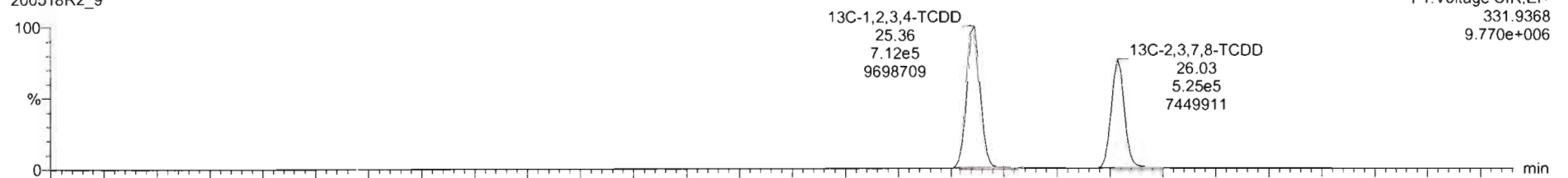
37Cl-2,3,7,8-TCDD

200518R2_9

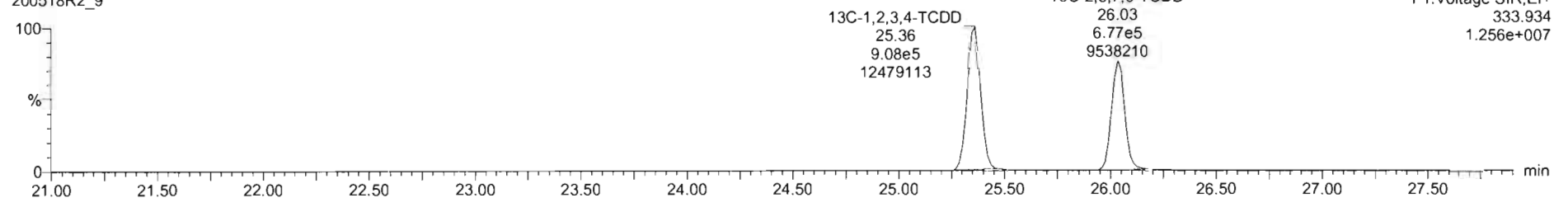


13C-1,2,3,4-TCDD

200518R2_9



200518R2_9



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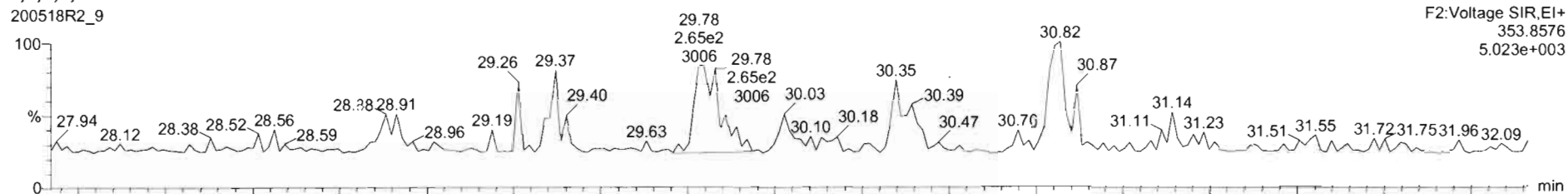
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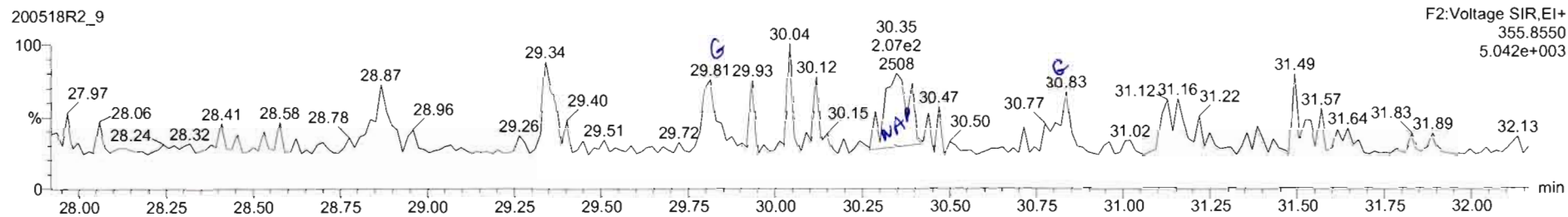
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1,2,3,7,8-PeCDD

200518R2_9

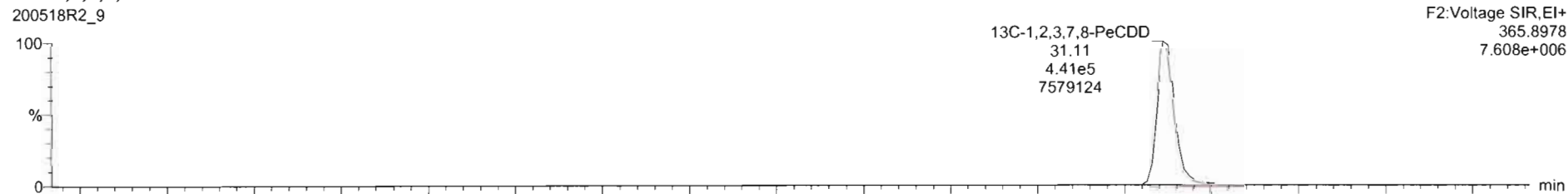


200518R2_9

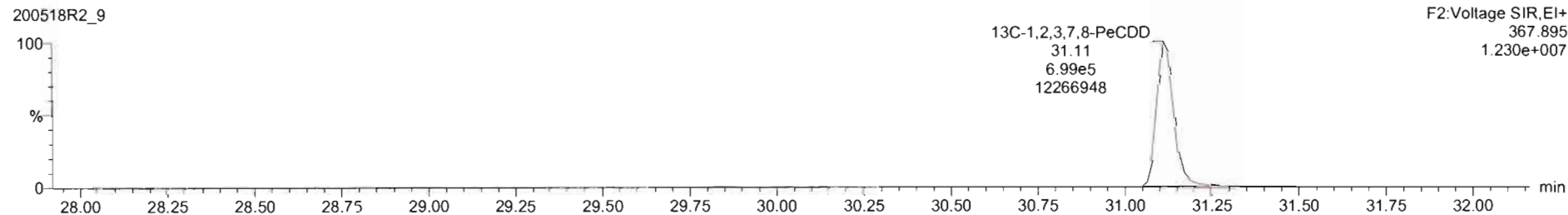


13C-1,2,3,7,8-PeCDD

200518R2_9



200518R2_9



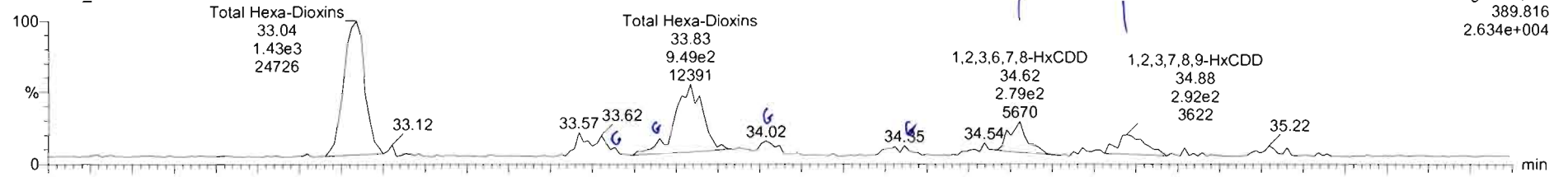
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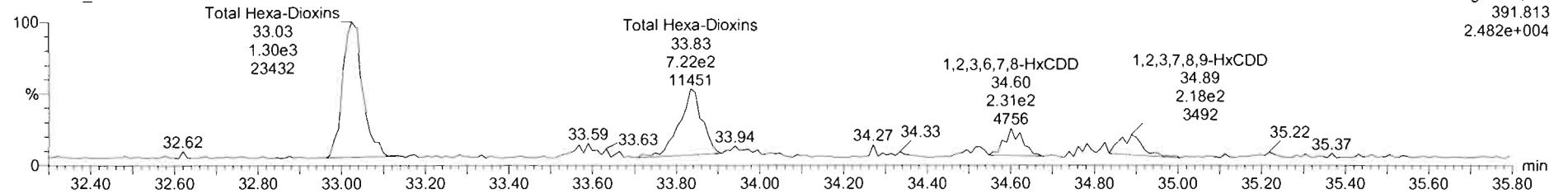
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1,2,3,4,7,8-HxCDD

200518R2_9

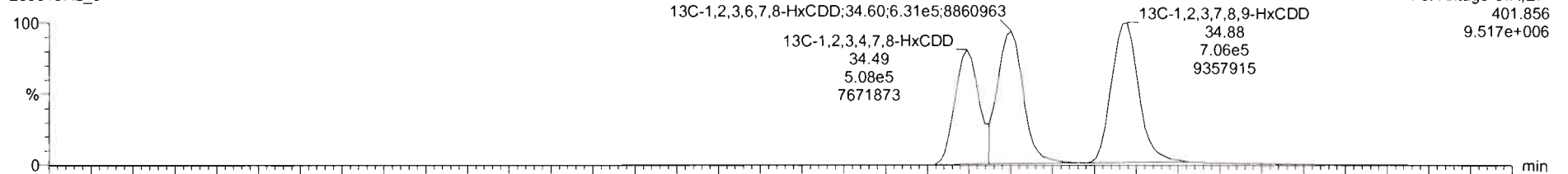


200518R2_9

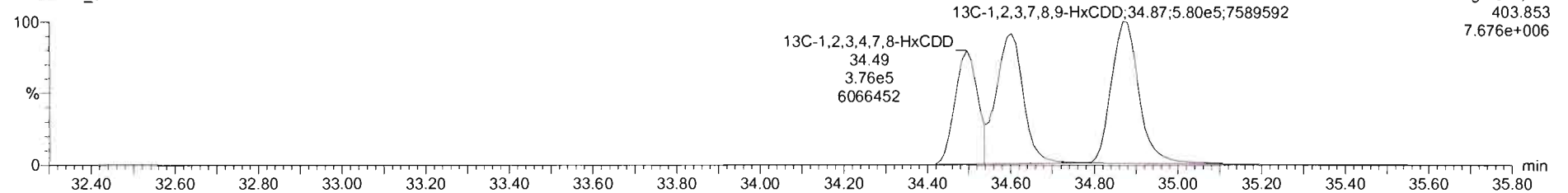


13C-1,2,3,4,7,8-HxCDD

200518R2_9



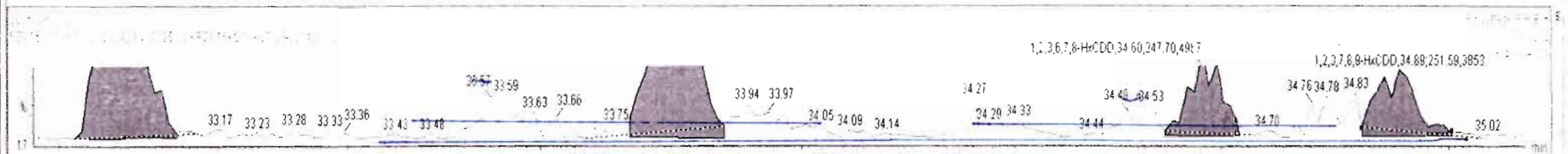
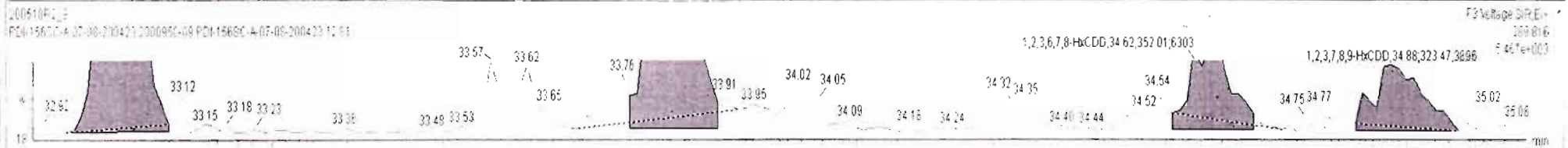
200518R2_9



200518R2_9 - 2000950-09 PDI-156SC-A-07-08-200423 12.81 - PDI-156SC-A-07-08-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
40 Total Penta-Dioxins				0.9425	10.042					0.0221	
41 Total Hexa-Dioxins				0.9145	10.042			1.09		0.0749	1.09
42 Total Hepta-Dioxins				0.8979	10.042			4.45		0.109	4.45
43 Total Tetra-Furans				0.7871	10.042					0.0149	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Dioxins	33.04	1.460e3	1.310e3	1.11	NO	0.54489	0.54489
2 Total Hexa-Dioxins	33.83	9.295e2	7.581e2	1.23	NO	0.33201	0.33201
3 1,2,3,6,7,8-HxCDD	34.62	3.520e2	2.477e2	1.42	NO	0.11339	0.11339
4 1,2,3,7,8-HxCDD	34.88	3.235e2	2.516e2	1.29	NO	0.097351	0.097351



Dataset: Untitled

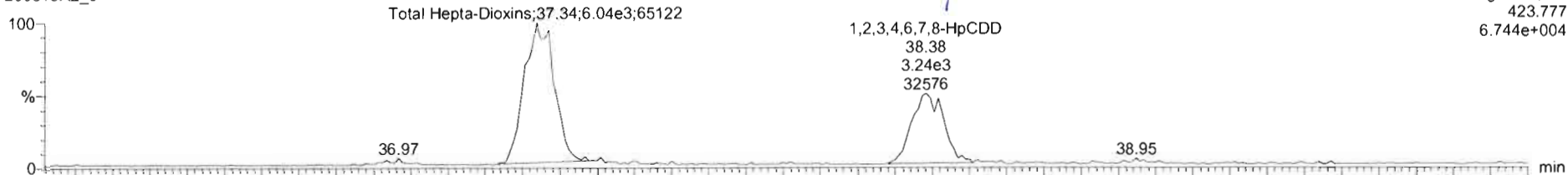
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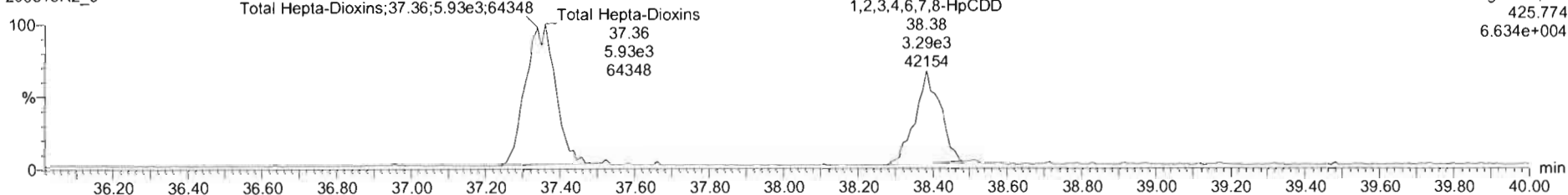
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1,2,3,4,6,7,8-HpCDD

200518R2_9

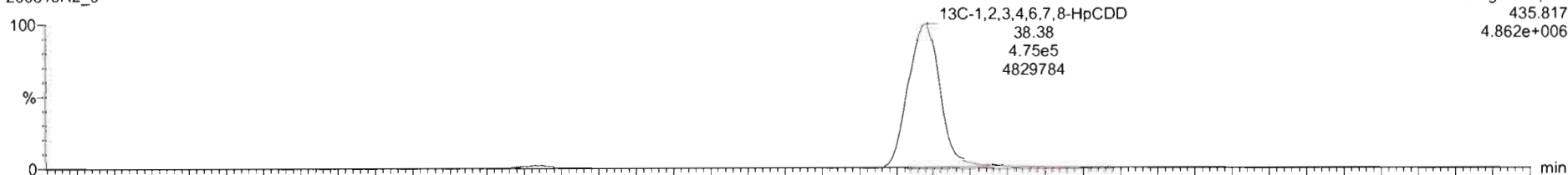


200518R2_9

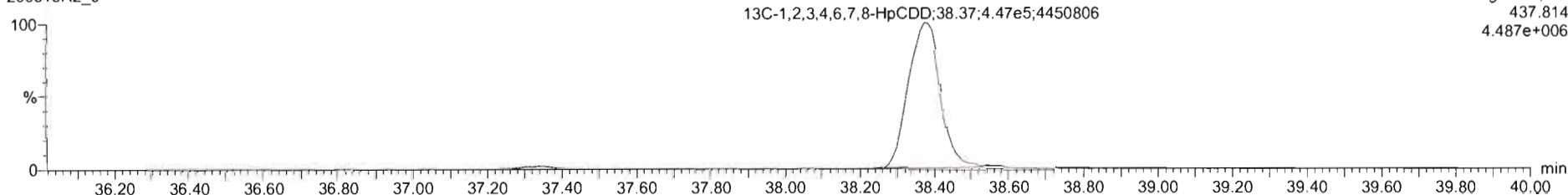


13C-1,2,3,4,6,7,8-HpCDD

200518R2_9



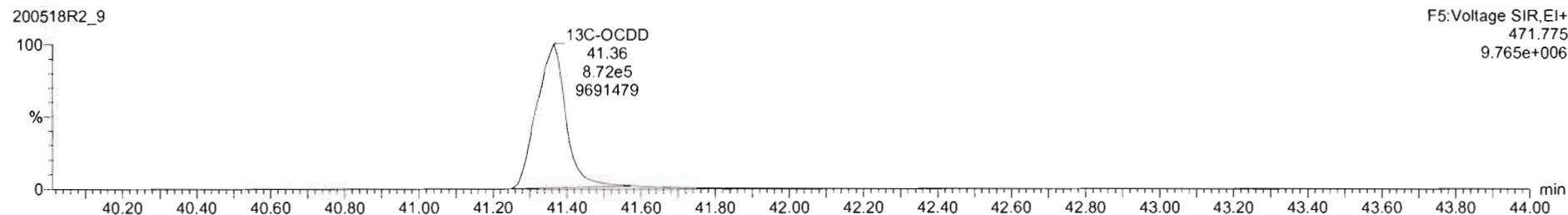
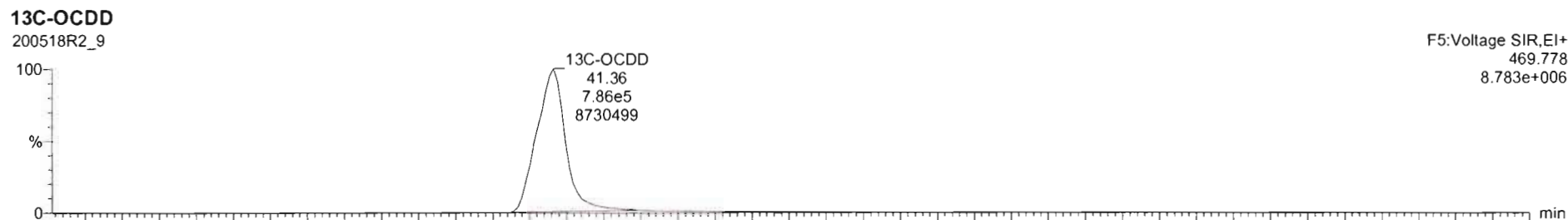
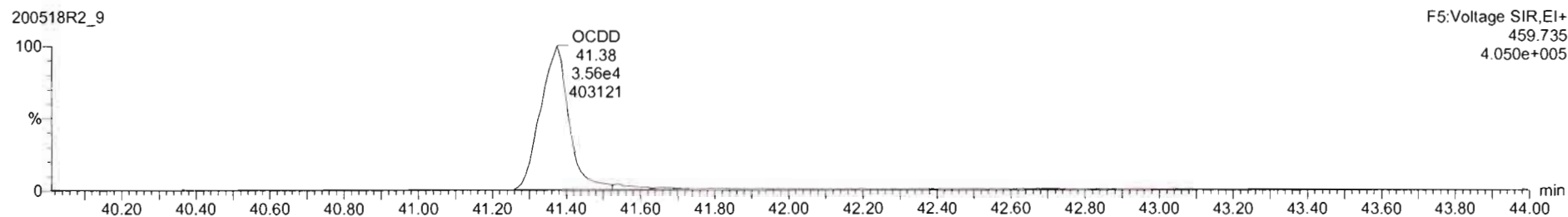
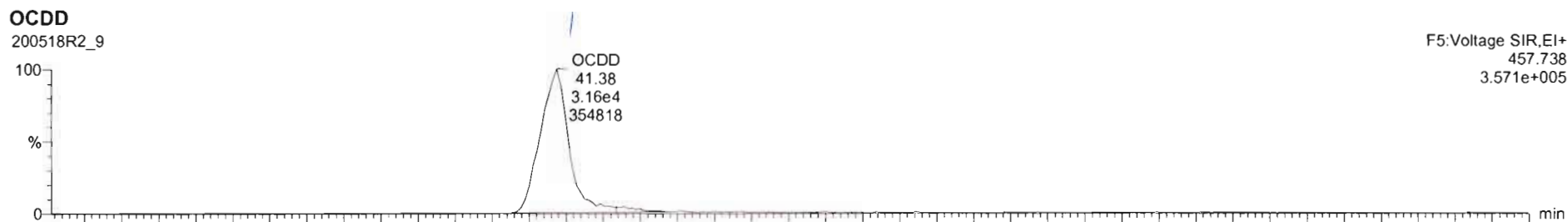
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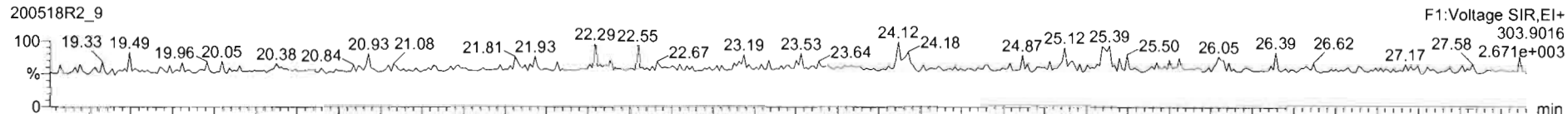
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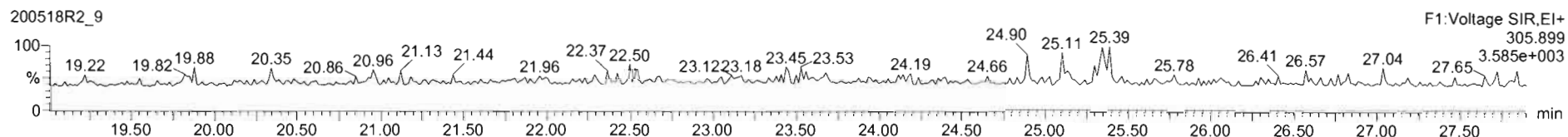
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2,3,7,8-TCDF

200518R2_9

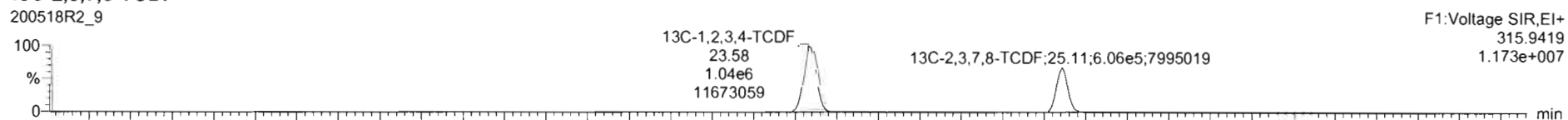


200518R2_9

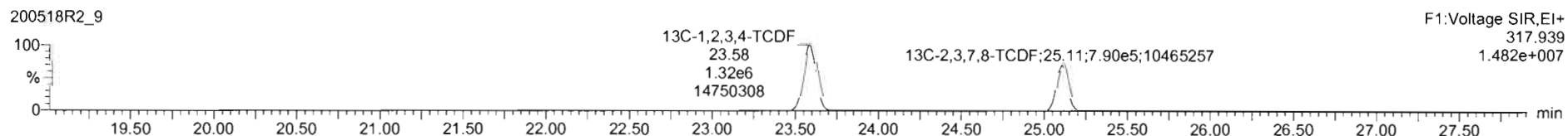


13C-2,3,7,8-TCDF

200518R2_9

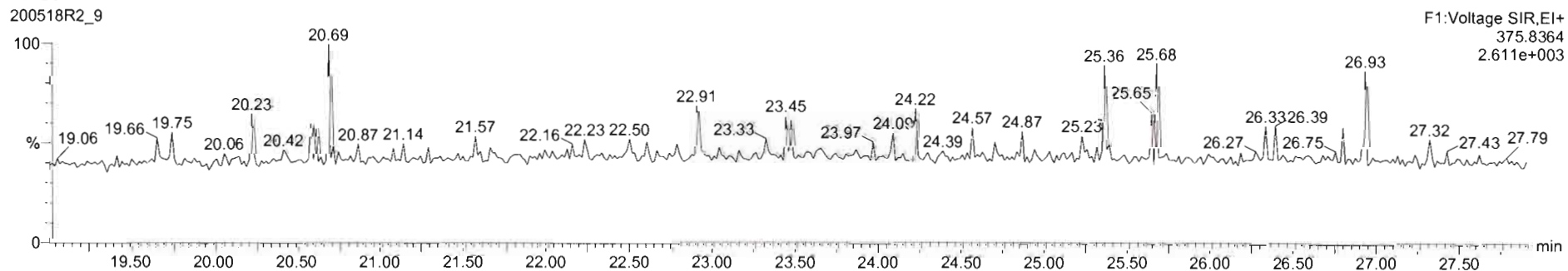


200518R2_9



DPE1

200518R2_9



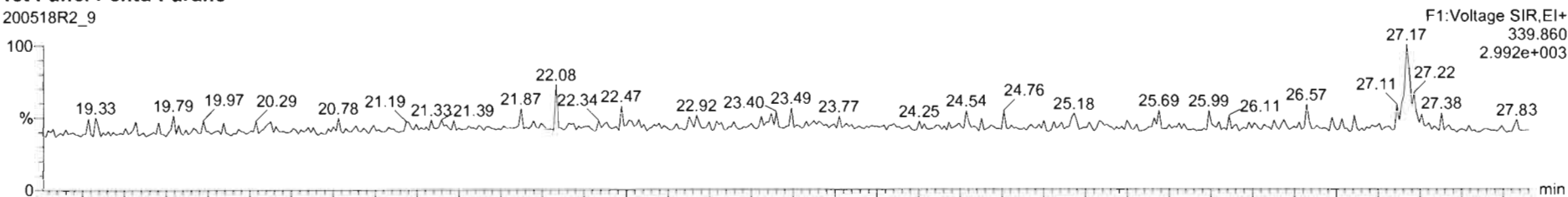
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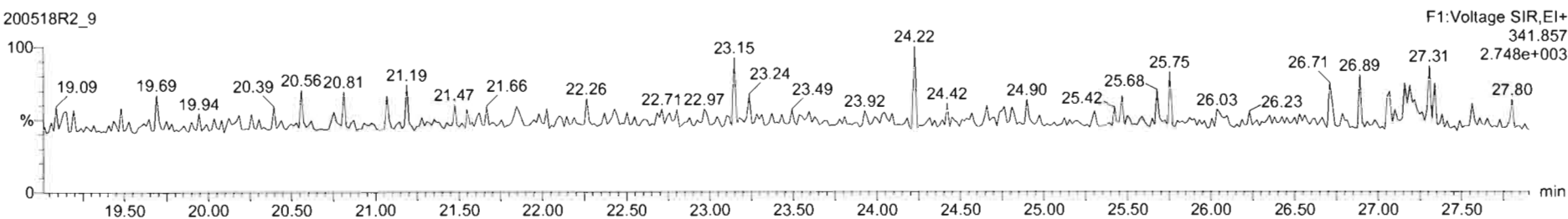
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1st Func. Penta-Furans

200518R2_9

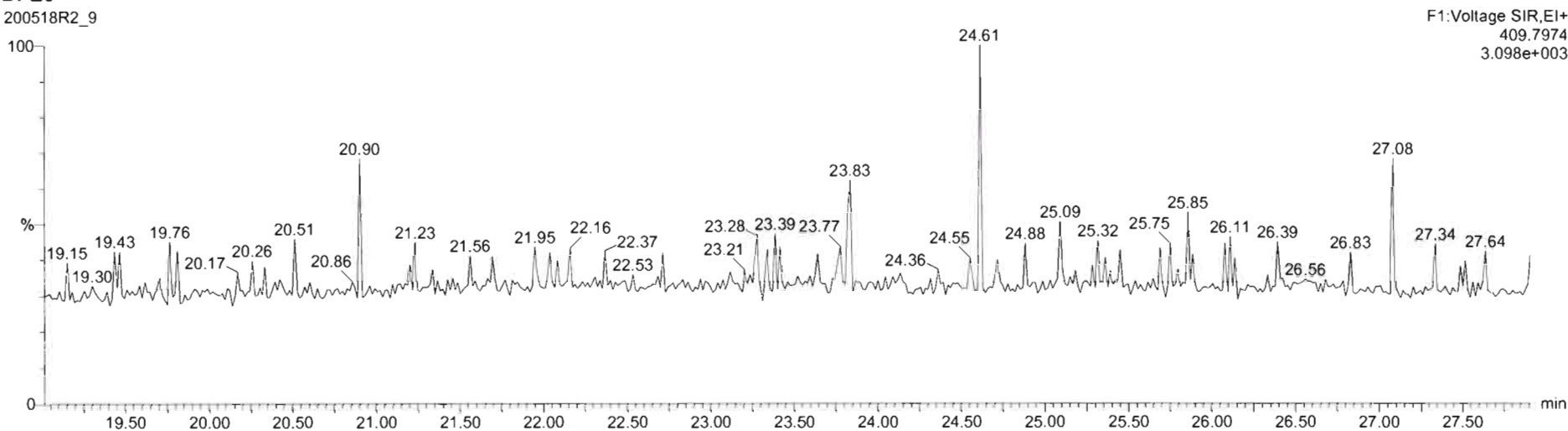


200518R2_9



DPE6

200518R2_9



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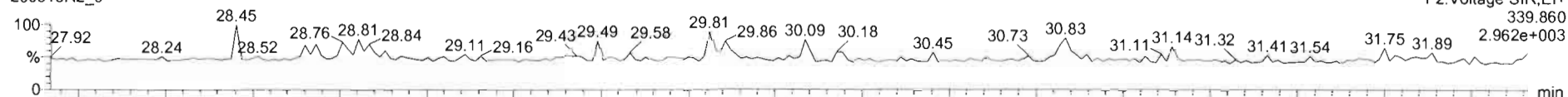
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

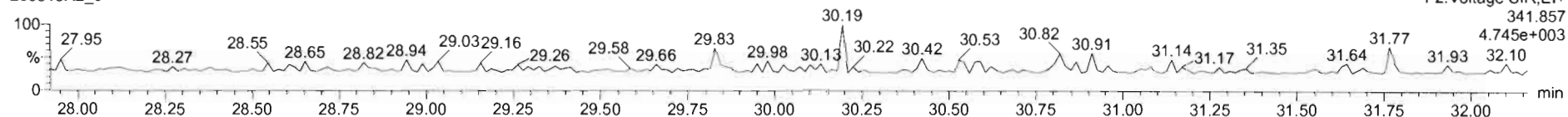
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1,2,3,7,8-PeCDF

200518R2_9

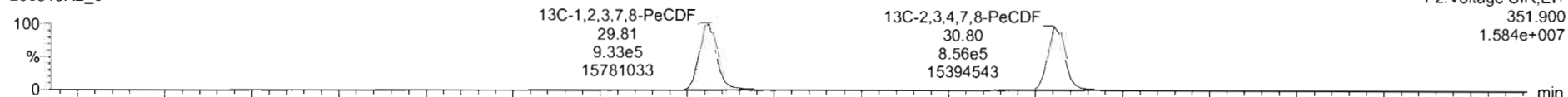


200518R2_9

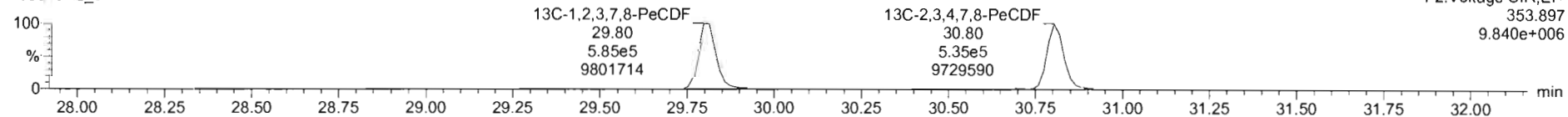


13C-1,2,3,7,8-PeCDF

200518R2_9

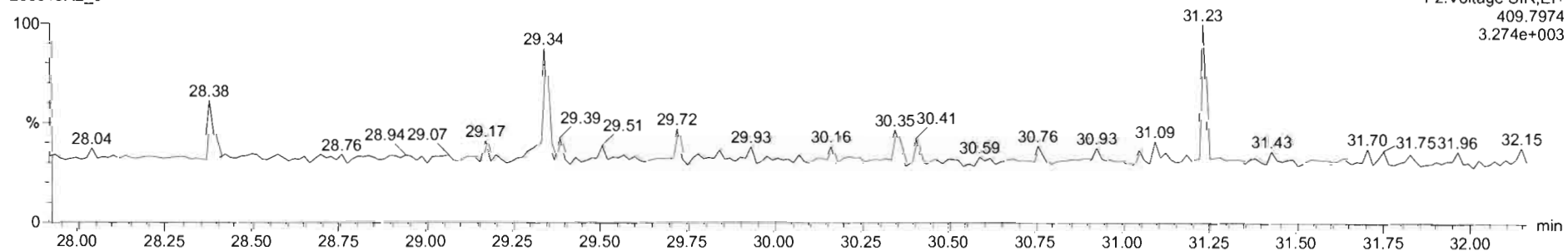


200518R2_9



DPE2

200518R2_9

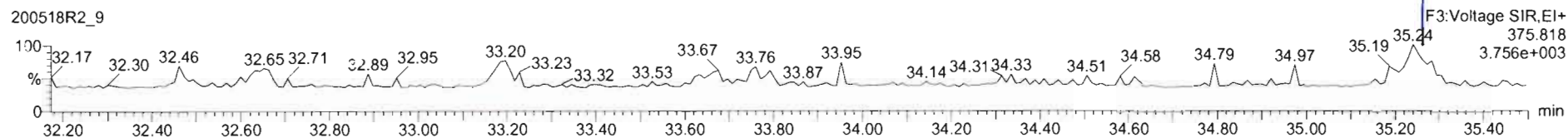
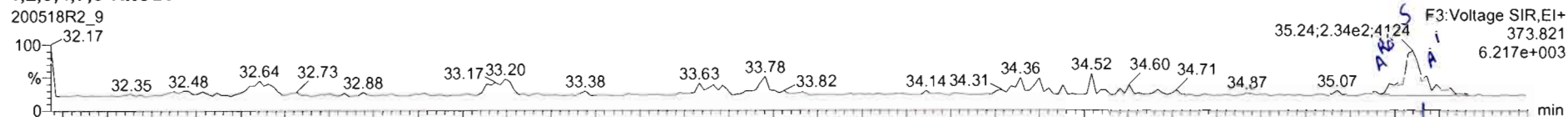


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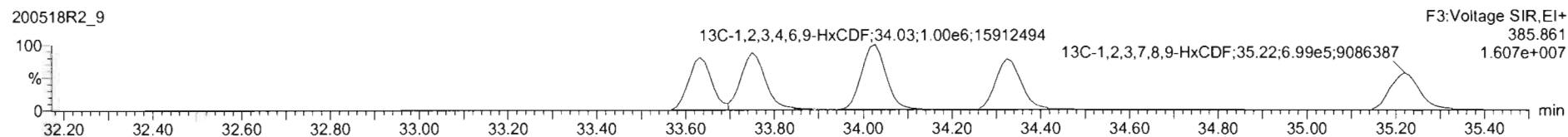
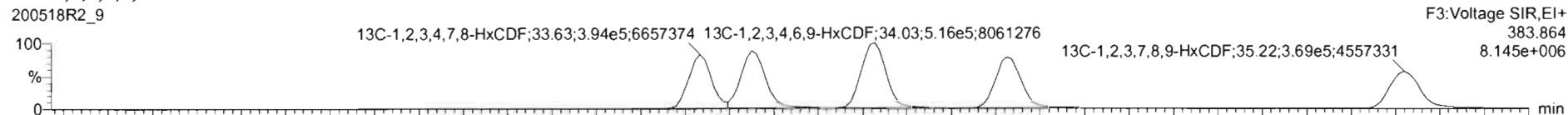
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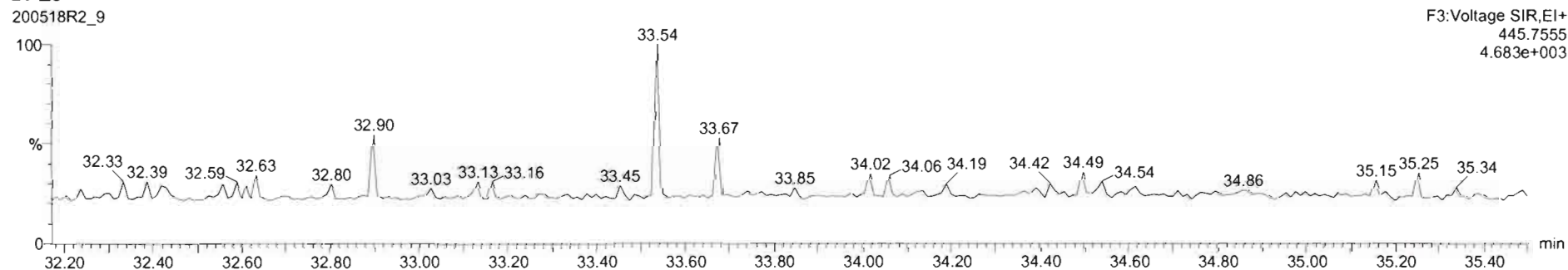
1,2,3,4,7,8-HxCDF



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



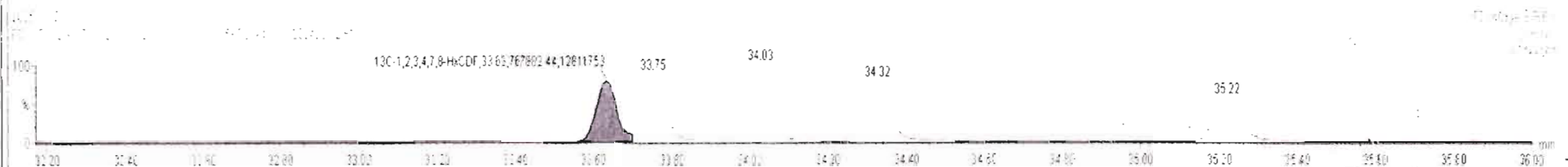
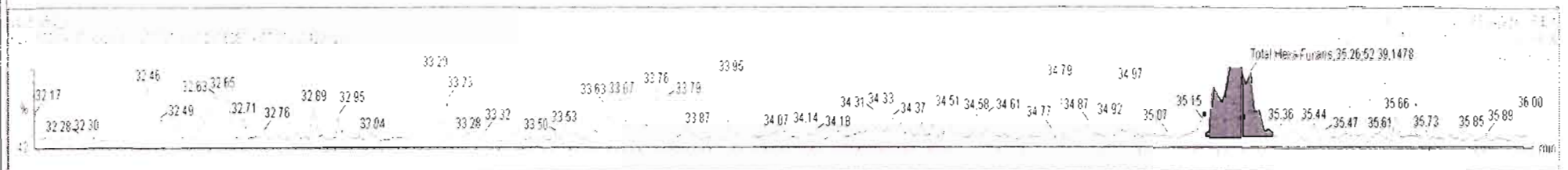
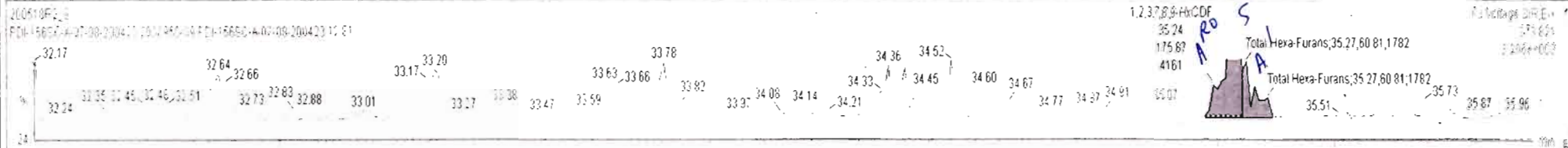
DPE3



200518R2_9 - 2000950-09 PDI-156SC-A-07-08-200423 12.81 - PDI-156SC-A-07-08-200423

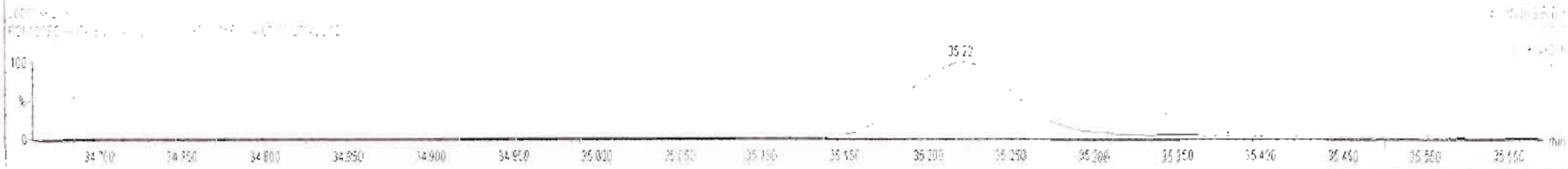
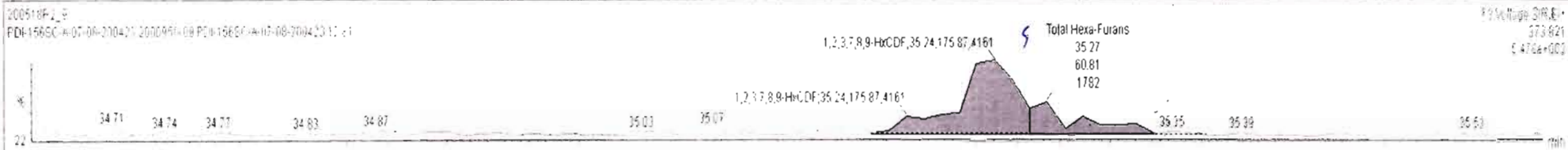
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.042					0.0149	
44 1st Func. Penta-Furans				0.9102	10.042					0.00492	
45 Total Penta-Furans				0.9102	10.042					0.00753	
46 Total Hexa-Furans				0.9217	10.042			0.0204		0.0159	0.0752

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,7,8-HxCDF	35.24	1.759e2	1.134e2	1.55	YES	0.054809	0.00060
2 Total Hexa-Furans	35.27	6.061e1	5.239e1	1.16	NO	0.020358	0.020358



xi	Name	Resp	RA	n/y	RFf	wt/Vol	RT	RRT	Conc	%Rec	DL	EMPC
43	Total Tetra-Furans				0.7571	10.042					0.0149	
44	1st Func. Penta-Furans				0.9102	10.042					0.00492	
45	Total Penta-Furans				0.9102	10.042					0.00753	
46	Total Hexa-Furans				0.9217	10.042			0.0204		0.0159	0.0752

xi	Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1	1,2,3,7,8,9-HxCDF	35.24	1.759e2	1.134e2	1.55	YES	0.054809	0.00000
2	Total Hexa-Furans	35.27	6.081e1	5.239e1	1.16	NO	0.020358	0.020358



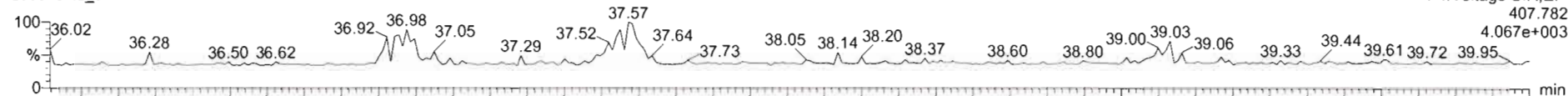
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

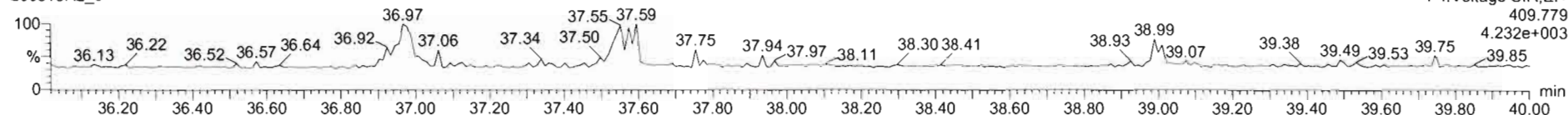
Name: 200518R2_9, Date: 18-May-2020, Time: 20:12:24, ID: 2000950-09 PDI-156SC-A-07-08-200423 12.81, Description: PDI-156SC-A-07-08-200423

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

200518R2_9



200518R2_9

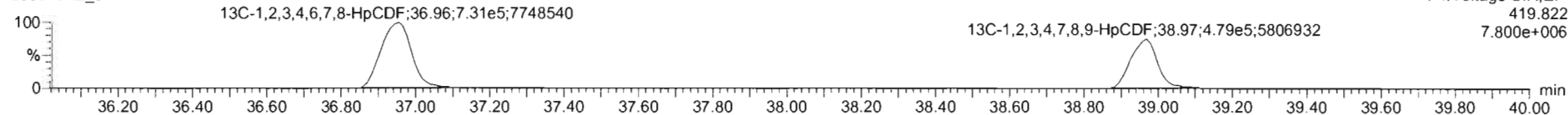


13C-1,2,3,4,6,7,8-HpCDF

200518R2_9

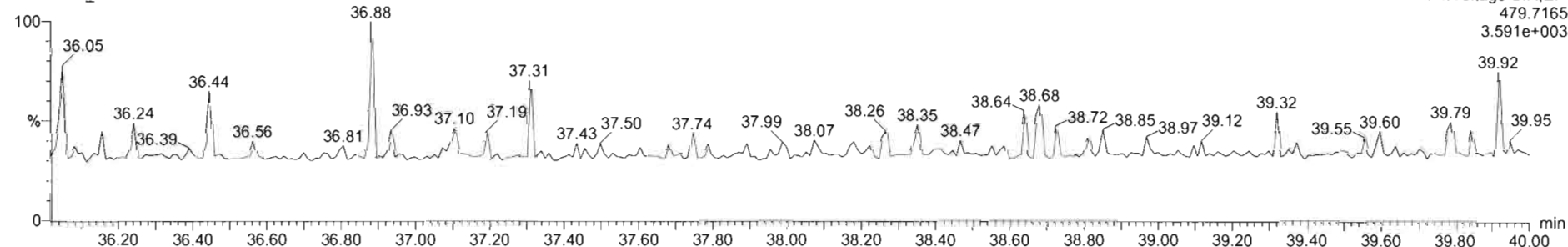


200518R2_9



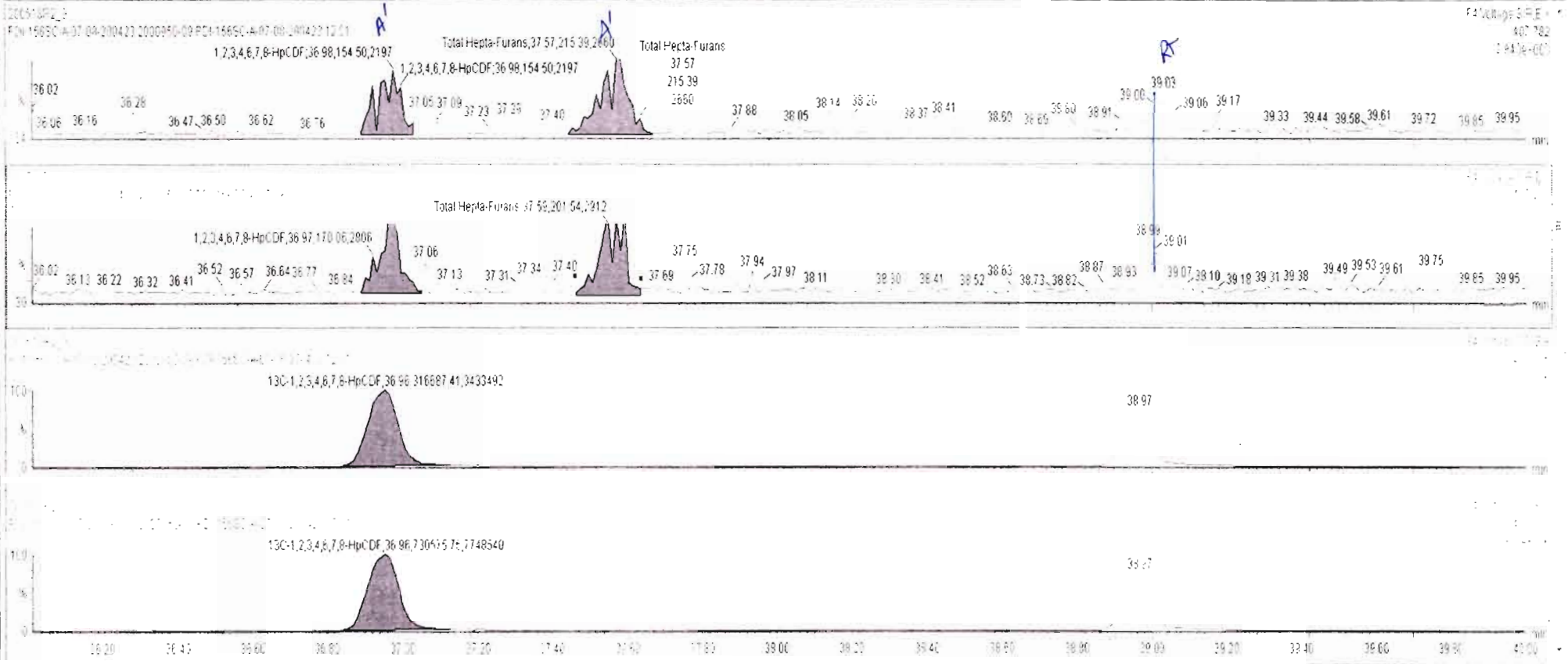
DPE4

200518R2_9



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
46 Total Hepta-Furans				0.9217	10.042			0.0204	0.0159	0.0152	
47 Total Hepta-Furans				0.8712	10.042			0.181	0.0238	0.181	
48 PFK1											
49 PFK2											

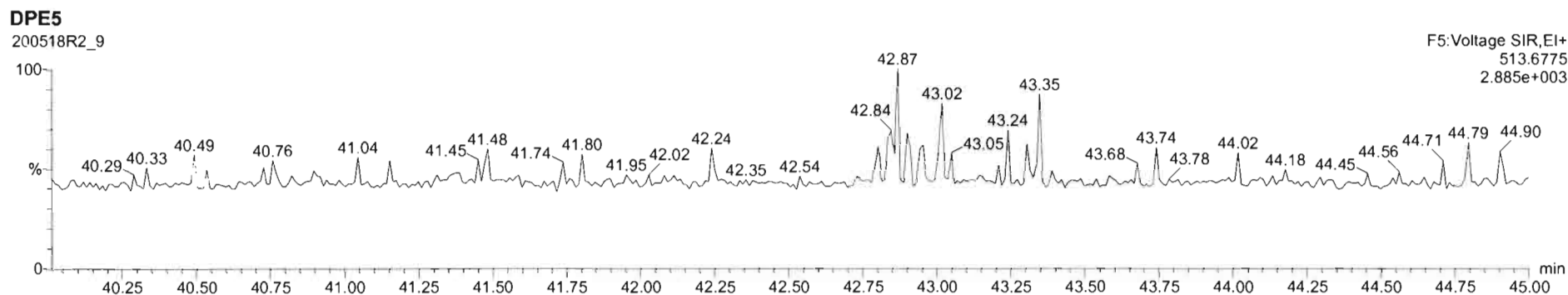
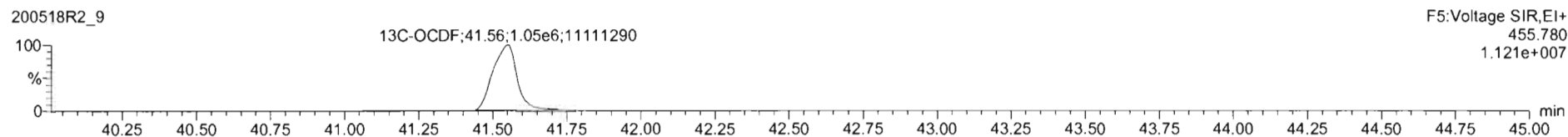
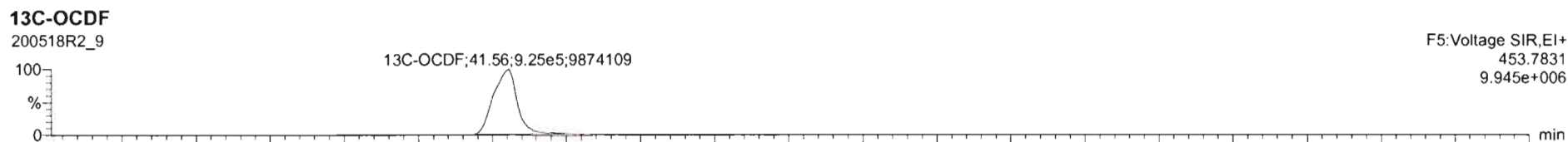
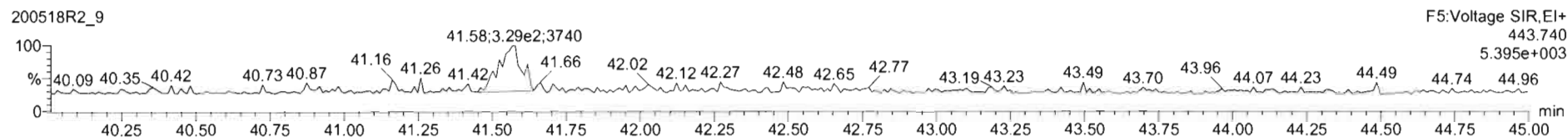
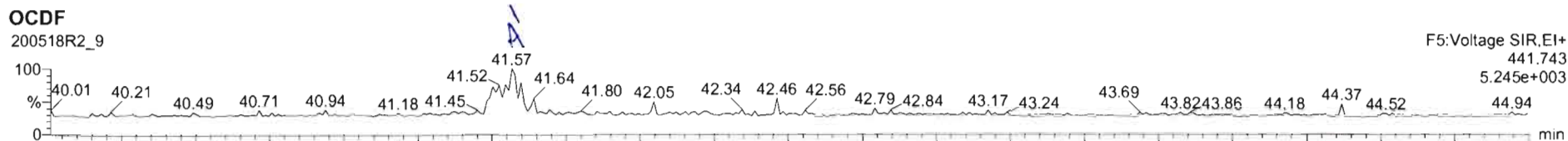
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.98	1.545e2	1.701e2	0.91	NO	0.070848	0.070848
2 Total Hepta-Furans	37.57	2.154e2	2.015e2	1.07	NO	0.11027	0.11027



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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_9, Date: 18-May-2020, Time: 20:12:24, ID: 2000950-09 PDI-156SC-A-07-08-200423 12.81, Description: PDI-156SC-A-07-08-200423

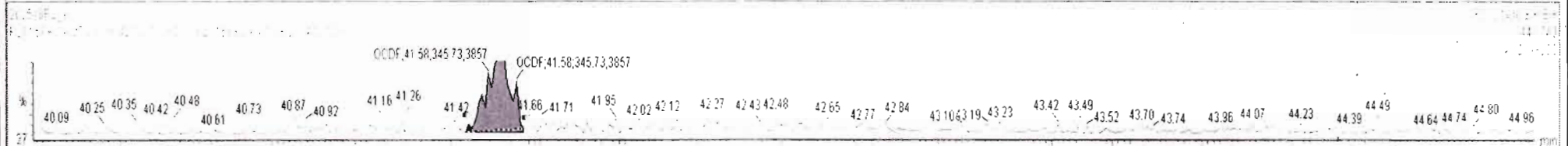
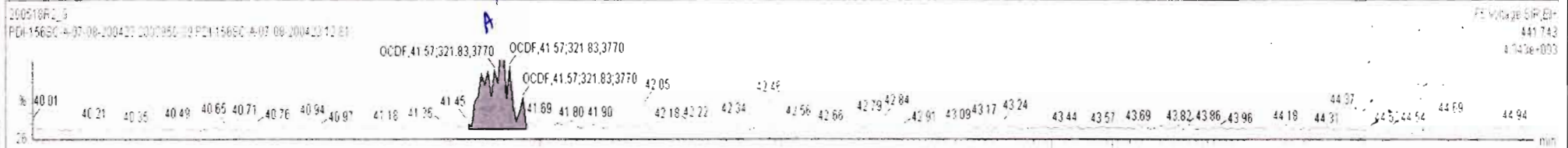




200518R2_9 - 2000950-09-PDI-156SC-A-07-08-200423 12.81 - PDI-156SC-A-07-08-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	6.68e2	0.93	NO	0.8021	10.042	41.57	1.000	0.166	0.0493	0.166
18	13C-2,3,7,8-TCDD	1.20e6	0.77	NO	1.1595	10.042	26.03	1.027	127	64.0	0.124
19	13C-1,2,3,7,8-PeCDD	1.14e6	0.63	NO	0.8472	10.042	31.11	1.227	166	83.1	0.145
20	13C-1,2,3,4,7,8-HxCDD	8.83e5	1.35	NO	0.7498	10.042	34.48	1.014	155	77.7	0.381

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

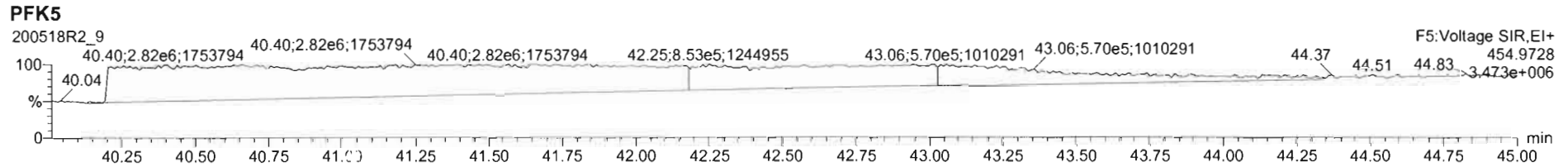
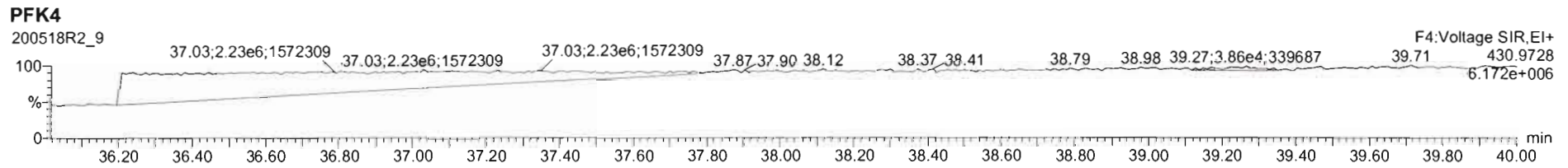
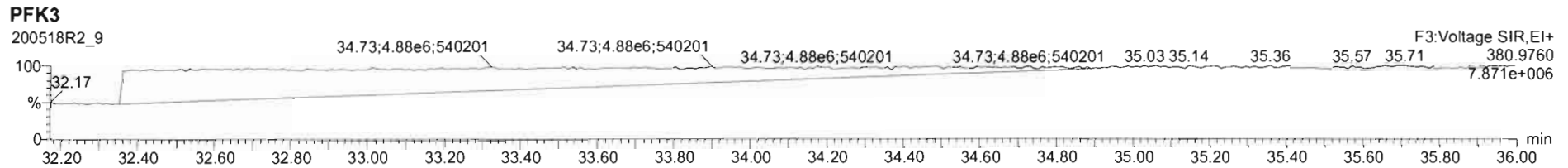
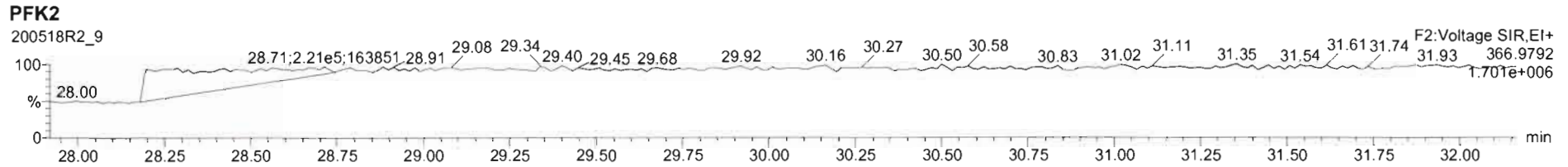
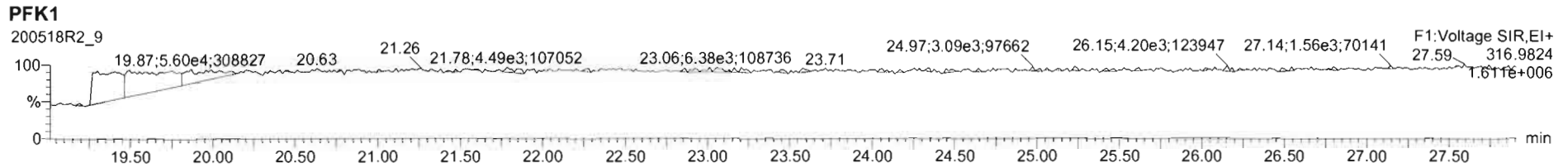


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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_9, Date: 18-May-2020, Time: 20:12:24, ID: 2000950-09 PDI-156SC-A-07-08-200423 12.81, Description: PDI-156SC-A-07-08-200423



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-10a.qld

Last Altered: Wednesday, May 20, 2020 10:32:22 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 10:43:14 Pacific Daylight Time

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Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

#	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	1.20e3	0.32	YES	0.947	10.885	26.066	26.06	1.001	1.001	0.14101		0.0420	0.0789
2	2 1,2,3,7,8-PeCDD	7.11e2	0.67	NO	0.942	10.885	31.147	31.14	1.001	1.000	0.088874		0.0503	0.0889
3	3 1,2,3,4,7,8-HxCDD	5.07e2	1.31	NO	1.06	10.885	34.515	34.49	1.000	1.000	0.077126		0.0497	0.0771
4	4 1,2,3,6,7,8-HxCDD	1.76e3	1.19	NO	0.915	10.885	34.601	34.62	1.000	1.001	0.24489		0.0501	0.245
5	5 1,2,3,7,8,9-HxCDD	1.73e3	1.19	NO	0.915	10.885	34.888	34.90	1.000	1.001	0.26721		0.0541	0.267
6	6 1,2,3,4,6,7,8-HpCDD	3.39e4	1.04	NO	0.898	10.885	38.383	38.38	1.000	1.000	6.6431		0.135	6.64
7	7 OCDD	5.45e5	0.86	NO	0.933	10.885	41.364	41.37	1.000	1.000	113.66		0.188	114
8	8 2,3,7,8-TCDF	8.07e3	0.67	NO	0.787	10.885	25.132	25.14	1.001	1.001	0.95475	(C15ZC)	0.0485	0.955
9	9 1,2,3,7,8-PeCDF	9.46e3	1.46	NO	0.910	10.885	29.834	29.83	1.001	1.000	0.90207		0.0262	0.902
10	10 2,3,4,7,8-PeCDF	3.11e3	3.69	YES	0.966	10.885	30.828	30.83	1.000	1.001	0.28871		0.0280	0.157
11	11 1,2,3,4,7,8-HxCDF	1.25e4	1.22	NO	0.878	10.885	33.643	33.65	1.000	1.000	1.7809		0.0360	1.78
12	12 1,2,3,6,7,8-HxCDF	3.27e3	1.22	NO	0.874	10.885	33.770	33.77	1.000	1.000	0.40979		0.0330	0.410
13	13 2,3,4,6,7,8-HxCDF	1.05e3	1.28	NO	0.922	10.885	34.369	34.33	1.001	1.000	0.13745		0.0365	0.137
14	14 1,2,3,7,8,9-HxCDF	1.10e3	1.10	NO	0.864	10.885	35.229	35.26	1.000	1.001	0.18387		0.0517	0.184
15	15 1,2,3,4,6,7,8-HpCDF	8.46e3	1.00	NO	0.871	10.885	36.992	36.98	1.001	1.001	1.5073		0.0933	1.51
16	16 1,2,3,4,7,8,9-HpCDF	1.82e3	1.00	NO	1.01	10.885	38.968	38.99	1.000	1.001	0.40779		0.106	0.408
17	17 OCDF	1.46e4	0.93	NO	0.802	10.885	41.545	41.56	1.000	1.000	3.0899		0.0524	3.09
18	18 13C-2,3,7,8-TCDD	1.65e6	0.78	NO	1.16	10.885	26.031	26.03	1.026	1.027	157.27	85.6	0.171	
19	19 13C-1,2,3,7,8-PeCDD	1.56e6	0.63	NO	0.847	10.885	31.123	31.13	1.227	1.227	203.93	111	0.148	
20	20 13C-1,2,3,4,7,8-HxCDD	1.13e6	1.28	NO	0.750	10.885	34.506	34.51	1.014	1.014	179.39	97.6	0.308	
21	21 13C-1,2,3,6,7,8-HxCDD	1.44e6	1.28	NO	0.963	10.885	34.618	34.60	1.017	1.017	177.32	96.5	0.240	
22	22 13C-1,2,3,7,8,9-HxCDD	1.30e6	1.26	NO	0.838	10.885	34.887	34.88	1.025	1.025	184.43	100	0.276	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.04e6	1.05	NO	0.641	10.885	38.378	38.37	1.128	1.128	192.78	105	0.333	
24	24 13C-OCDD	1.89e6	0.88	NO	0.586	10.885	41.372	41.36	1.216	1.216	381.52	104	0.498	
25	25 13C-2,3,7,8-TCDF	1.97e6	0.77	NO	1.03	10.885	25.090	25.11	0.989	0.990	150.13	81.7	0.167	
26	26 13C-1,2,3,7,8-PeCDF	2.12e6	1.56	NO	0.845	10.885	29.812	29.81	1.176	1.176	197.15	107	0.349	
27	27 13C-2,3,4,7,8-PeCDF	2.05e6	1.60	NO	0.814	10.885	30.803	30.82	1.215	1.215	197.67	108	0.362	
28	28 13C-1,2,3,4,7,8-HxCDF	1.46e6	0.51	NO	1.00	10.885	33.645	33.64	0.989	0.989	172.65	94.0	0.329	
29	29 13C-1,2,3,6,7,8-HxCDF	1.68e6	0.51	NO	1.14	10.885	33.767	33.76	0.992	0.992	175.18	95.3	0.290	
30	30 13C-2,3,4,6,7,8-HxCDF	1.52e6	0.52	NO	1.02	10.885	34.336	34.33	1.009	1.009	176.69	96.2	0.323	
31	31 13C-1,2,3,7,8,9-HxCDF	1.27e6	0.52	NO	0.845	10.885	35.227	35.23	1.035	1.035	178.91	97.4	0.391	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-10a.qld

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Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	13C-1,2,3,4,6,7,8-HpCDF	1.18e6	0.44	NO	0.771	10.885	36.959	36.95	1.086	1.086	181.93	99.0	0.343	
33	13C-1,2,3,4,7,8,9-HpCDF	8.11e5	0.43	NO	0.482	10.885	38.970	38.97	1.145	1.145	199.44	109	0.548	
34	13C-OCDF	2.16e6	0.88	NO	0.669	10.885	41.542	41.54	1.221	1.221	383.49	104	0.351	
35	37Cl-2,3,7,8-TCDD	6.42e5			1.10	10.885	26.061	26.07	1.028	1.028	64.745	88.1	0.0519	
36	13C-1,2,3,4-TCDD	1.66e6	0.79	NO	1.00	10.885	25.350	25.36	1.000	1.000	183.73	100	0.198	
37	13C-1,2,3,4-TCDF	2.34e6	0.78	NO	1.00	10.885	23.560	23.59	1.000	1.000	183.73	100	0.172	
38	13C-1,2,3,4,6,9-HxCDF	1.55e6	0.51	NO	1.00	10.885	34.000	34.03	1.000	1.000	183.73	100	0.330	
39	Total Tetra-Dioxins				0.947	10.885	24.620		0.000		0.37406		0.0429	0.550
40	Total Penta-Dioxins				0.942	10.885	29.960		0.000		0.49979		0.0503	0.680
41	Total Hexa-Dioxins				0.915	10.885	33.635		0.000		3.6076		0.0537	3.70
42	Total Hepta-Dioxins				0.898	10.885	37.640		0.000		16.364		0.135	16.4
43	Total Tetra-Furans				0.787	10.885	23.610		0.000		3.1454		0.0485	3.23
44	1st Func. Penta-Furans				0.910	10.885	27.090		0.000		0.36479		0.0105	0.365
45	Total Penta-Furans				0.910	10.885	29.275		0.000		2.1733		0.0269	2.49
46	Total Hexa-Furans				0.922	10.885	33.555		0.000		3.9340		0.0371	3.93
47	Total Hepta-Furans				0.871	10.885	37.835		0.000		4.1324		0.105	4.13

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Method: Untitled 29 Apr 2020 14:28:02

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Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	21.89	3.234e3	3.587e3	2.789e2	2.842e2	0.98	YES	0.000e0	0.00000	0.059227	0.0429
2	Total Tetra-Dioxins	23.80	1.054e4	1.168e4	9.231e2	1.048e3	0.88	NO	1.971e3	0.23211	0.23211	0.0429
3	Total Tetra-Dioxins	25.35	3.819e3	3.494e3	2.403e2	3.029e2	0.79	NO	5.432e2	0.063957	0.063957	0.0429
4	Total Tetra-Dioxins	25.78	4.587e3	4.462e3	2.993e2	3.631e2	0.82	NO	6.624e2	0.077997	0.077997	0.0429
5	2,3,7,8-TCDD	26.06	4.508e3	1.255e4	2.916e2	9.061e2	0.32	YES	1.198e3	0.00000	0.078913	0.0429
6	Total Tetra-Dioxins	27.05	2.661e3	2.771e3	1.674e2	1.804e2	0.93	YES	0.000e0	0.00000	0.037606	0.0429

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.85	5.447e3	8.346e3	4.818e2	7.798e2	0.62	NO	1.262e3	0.15761	0.15761	0.0503
2	Total Penta-Dioxins	29.35	1.009e4	1.832e4	4.716e2	8.113e2	0.58	NO	1.283e3	0.16027	0.16027	0.0503
3	Total Penta-Dioxins	29.87	3.679e3	6.222e3	1.687e2	2.569e2	0.66	NO	4.256e2	0.053164	0.053164	0.0503
4	Total Penta-Dioxins	30.06	3.011e3	5.110e3	9.610e1	1.441e2	0.67	NO	0.000e0	0.00000	0.030003	0.0503
5	Total Penta-Dioxins	30.12	2.110e3	3.807e3	1.258e2	1.934e2	0.65	NO	3.192e2	0.039877	0.039877	0.0503
6	Total Penta-Dioxins	30.36	5.661e3	6.320e3	4.344e2	5.800e2	0.75	YES	0.000e0	0.00000	0.11809	0.0503
7	1,2,3,7,8-PeCDD	31.14	4.973e3	7.972e3	2.861e2	4.253e2	0.67	NO	7.114e2	0.088874	0.088874	0.0503
8	Total Penta-Dioxins	31.52	2.082e3	3.769e3	9.961e1	2.185e2	0.46	YES	0.000e0	0.00000	0.032195	0.0503

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.04	1.040e5	8.647e4	6.050e3	5.154e3	1.17	NO	1.120e4	1.7416	1.7416	0.0537
2	Total Hexa-Dioxins	33.58	1.090e4	8.045e3	6.349e2	5.057e2	1.26	NO	1.141e3	0.17730	0.17730	0.0537
3	Total Hexa-Dioxins	33.85	5.550e4	4.570e4	3.960e3	3.114e3	1.27	NO	7.073e3	1.0995	1.0995	0.0537
4	Total Hexa-Dioxins	33.92	7.190e3	5.319e3	4.414e2	2.632e2	1.68	YES	0.000e0	0.00000	0.091632	0.0537
5	1,2,3,4,7,8-HxCDD	34.49	5.043e3	3.869e3	2.870e2	2.198e2	1.31	NO	5.068e2	0.077126	0.077126	0.0497
6	1,2,3,6,7,8-HxCDD	34.62	1.228e4	1.200e4	9.551e2	8.003e2	1.19	NO	1.755e3	0.24489	0.24489	0.0501
7	1,2,3,7,8,9-HxCDD	34.90	1.358e4	1.419e4	9.426e2	7.909e2	1.19	NO	1.733e3	0.26721	0.26721	0.0541

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Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.36	2.670e5	2.568e5	2.523e4	2.432e4	1.04	NO	4.955e4	9.7214	9.7214	0.135
2	1,2,3,4,6,7,8-HpCDD	38.38	1.773e5	1.765e5	1.723e4	1.663e4	1.04	NO	3.386e4	6.6431	6.6431	0.135

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.93	1.414e4	1.290e4	8.854e2	1.205e3	0.73	NO	2.091e3	0.24723	0.24723	0.0485
2	Total Tetra-Furans	21.89	1.010e4	1.250e4	1.045e3	1.250e3	0.84	NO	2.295e3	0.27135	0.27135	0.0485
3	Total Tetra-Furans	22.32	3.389e3	5.149e3	3.105e2	3.983e2	0.78	NO	0.000e0	0.00000	0.083816	0.0485
4	Total Tetra-Furans	23.59	1.965e4	2.175e4	1.873e3	2.393e3	0.78	NO	4.266e3	0.50444	0.50444	0.0485
5	Total Tetra-Furans	24.15	2.971e4	4.291e4	2.559e3	3.326e3	0.77	NO	5.886e3	0.69596	0.69596	0.0485
6	Total Tetra-Furans	25.00	1.481e4	1.953e4	1.045e3	1.289e3	0.81	NO	2.335e3	0.27608	0.27608	0.0485
7	2,3,7,8-TCDF	25.14	4.160e4	5.783e4	3.251e3	4.823e3	0.67	NO	8.074e3	0.95475	0.95475	0.0485
8	Total Tetra-Furans	25.56	3.563e3	6.013e3	2.714e2	3.214e2	0.84	NO	5.929e2	0.070108	0.070108	0.0485
9	Total Tetra-Furans	27.22	7.925e3	7.969e3	4.608e2	6.008e2	0.77	NO	1.062e3	0.12554	0.12554	0.0485

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.19	3.559e4	2.440e4	2.223e3	1.538e3	1.45	NO	3.762e3	0.36479	0.36479	0.0105

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.82	4.238e4	2.775e4	3.695e3	2.271e3	1.63	NO	5.966e3	0.57858	0.57858	0.0269
2	Total Penta-Furans	29.42	2.125e4	2.069e4	1.409e3	1.013e3	1.39	NO	2.422e3	0.23489	0.23489	0.0269
3	Total Penta-Furans	29.63	1.753e4	1.303e4	8.240e2	5.698e2	1.45	NO	1.394e3	0.13516	0.13516	0.0269
4	1,2,3,7,8-PeCDF	29.83	9.927e4	6.522e4	5.620e3	3.844e3	1.46	NO	9.464e3	0.90207	0.90207	0.0262
5	Total Penta-Furans	30.09	3.000e4	2.037e4	1.745e3	1.280e3	1.36	NO	3.025e3	0.29337	0.29337	0.0269
6	2,3,4,7,8-PeCDF	30.83	5.246e4	2.698e4	2.444e3	6.623e2	3.69	YES	3.106e3	0.00000	0.15699	0.0260
7	Total Penta-Furans	30.85	3.752e4	3.386e4	9.977e2	1.585e3	0.63	YES	0.000e0	0.00000	0.15918	0.0269
8	Total Penta-Furans	31.78	3.706e3	2.184e3	1.926e2	1.090e2	1.77	NO	3.016e2	0.029252	0.029252	0.0269

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Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.46	1.408e4	9.627e3	7.063e2	5.461e2	1.29	NO	1.252e3	0.16810	0.16810	0.0371
2	Total Hexa-Furans	32.65	3.290e4	2.633e4	1.987e3	1.669e3	1.19	NO	3.656e3	0.49068	0.49068	0.0371
3	Total Hexa-Furans	33.21	4.316e4	3.862e4	2.575e3	2.139e3	1.20	NO	4.714e3	0.63274	0.63274	0.0371
4	1,2,3,4,7,8-HxCDF	33.65	1.202e5	9.341e4	6.851e3	5.605e3	1.22	NO	1.246e4	1.7809	1.7809	0.0360
5	1,2,3,6,7,8-HxCDF	33.77	2.690e4	2.224e4	1.799e3	1.475e3	1.22	NO	3.274e3	0.40979	0.40979	0.0330
6	2,3,4,6,7,8-HxCDF	34.33	1.029e4	6.828e3	5.903e2	4.601e2	1.28	NO	1.050e3	0.13745	0.13745	0.0365
7	1,2,3,7,8,9-HxCDF	35.26	1.324e4	1.134e4	5.763e2	5.260e2	1.10	NO	1.102e3	0.18387	0.18387	0.0517
8	Total Hexa-Furans	35.29	1.258e4	1.133e4	5.387e2	4.329e2	1.24	NO	9.717e2	0.13042	0.13042	0.0371

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	36.98	4.500e4	4.874e4	4.232e3	4.225e3	1.00	NO	8.457e3	1.5073	1.5073	0.0933
2	Total Hepta-Furans	37.57	5.681e4	6.107e4	5.220e3	5.265e3	0.99	NO	1.048e4	2.2173	2.2173	0.105
3	1,2,3,4,7,8,9-HpCDF	38.99	1.418e4	1.313e4	9.115e2	9.097e2	1.00	NO	1.821e3	0.40779	0.40779	0.106

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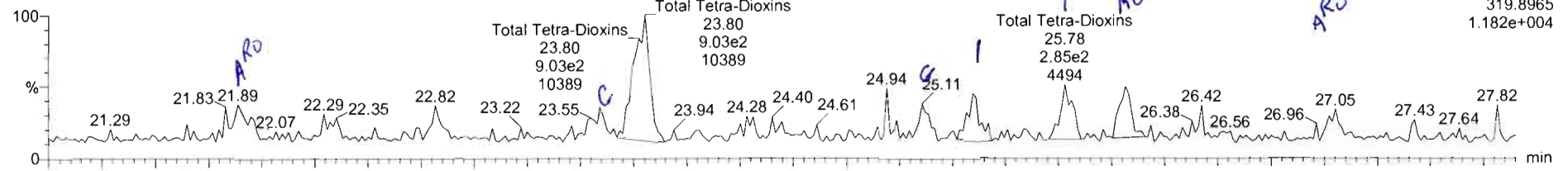
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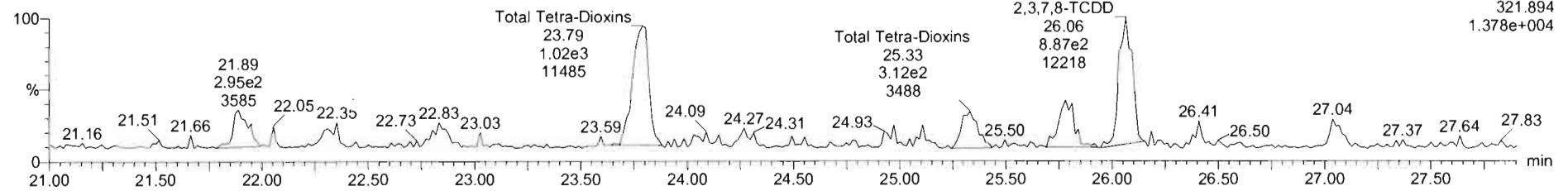
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2,3,7,8-TCDD

200518R2_10

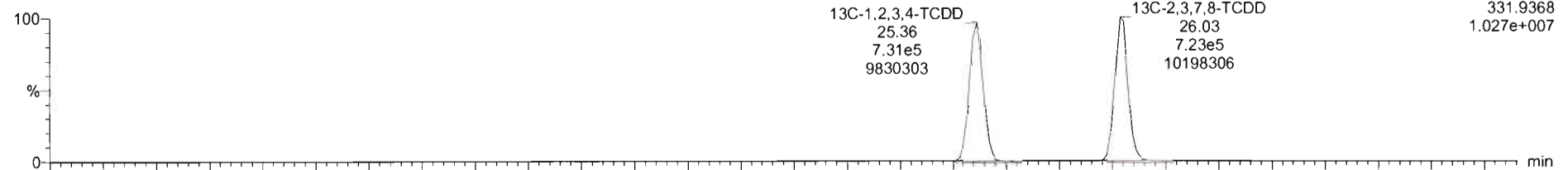


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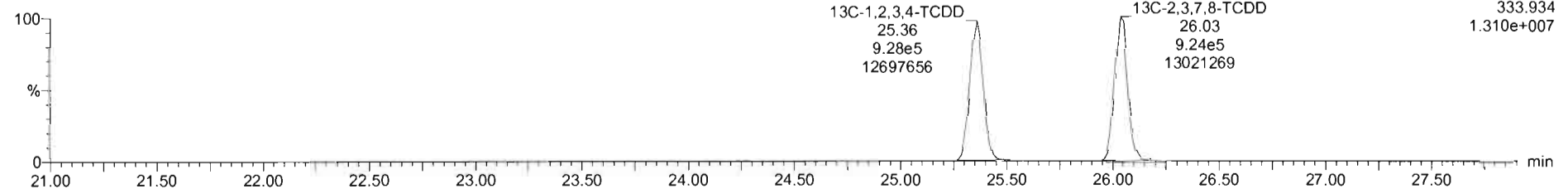


13C-2,3,7,8-TCDD

200518R2_10

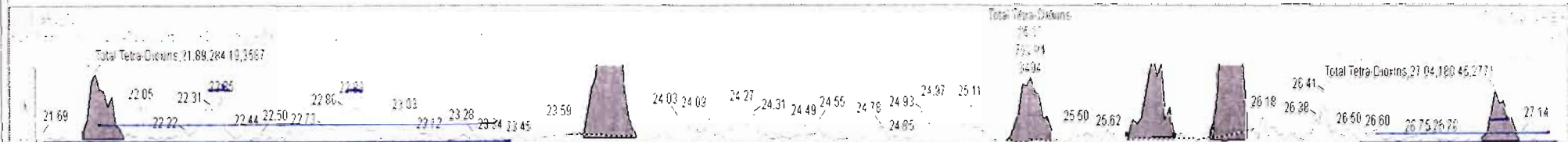
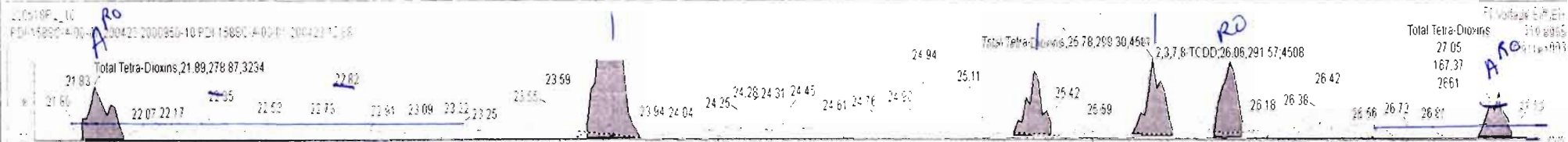


200518R2_10



Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.885			0.374	0.0429	0.550	
40 Total Penta-Dioxins				0.9425	10.885			0.511	0.0503	0.601	
41 Total Hexa-Dioxins				0.9145	10.885			3.22	0.0537	3.42	
42 Total Hepta-Dioxins				0.8979	10.885			16.4	0.135	10.4	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Tetra-Dioxins	21.89	2.789e2	2.842e2	0.98	YES	0.059227	0.00000
2 Total Tetra-Dioxins	23.60	9.231e2	1.048e3	0.88	NO	0.23211	0.23211
3 Total Tetra-Dioxins	25.35	2.403e2	3.029e2	0.79	NO	0.063957	0.063957
4 Total Tetra-Dioxins	25.78	2.993e2	3.631e2	0.82	NO	0.077997	0.077997
5 2,3,7,8-TCDD	26.06	2.916e2	9.061e2	0.32	YES	0.078913	0.00000
6 Total Tetra-Dioxins	27.05	1.674e2	1.804e2	0.93	YES	0.037606	0.00000



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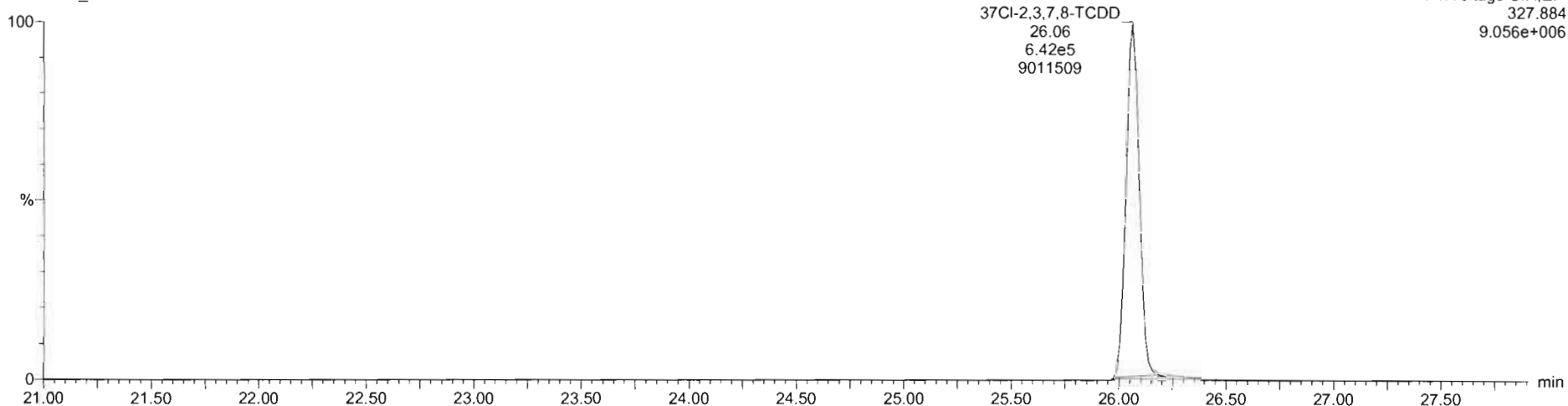
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Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

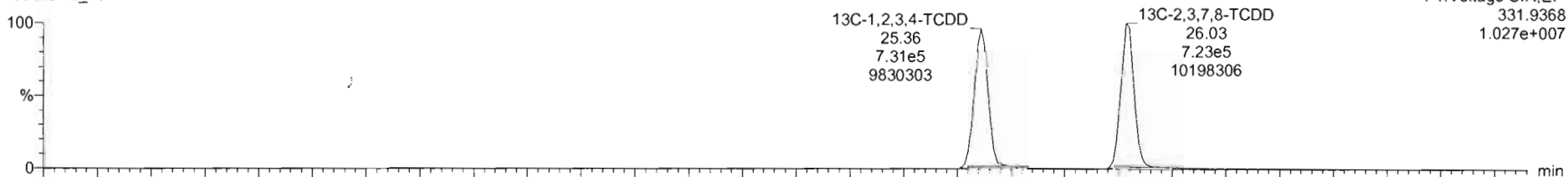
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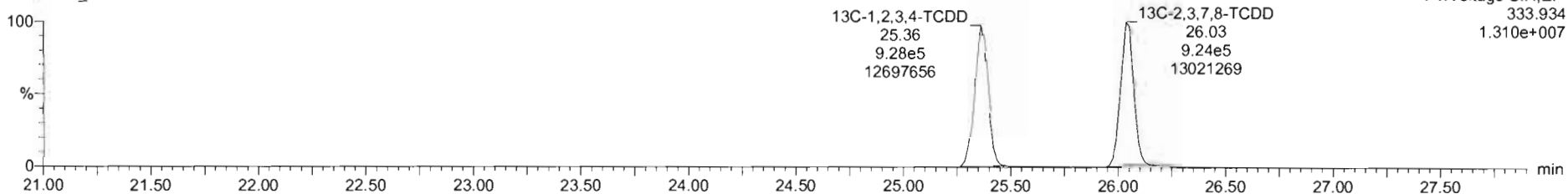


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200518R2_10



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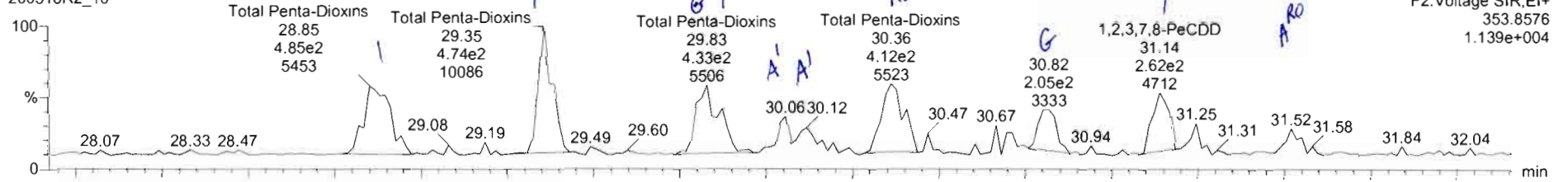
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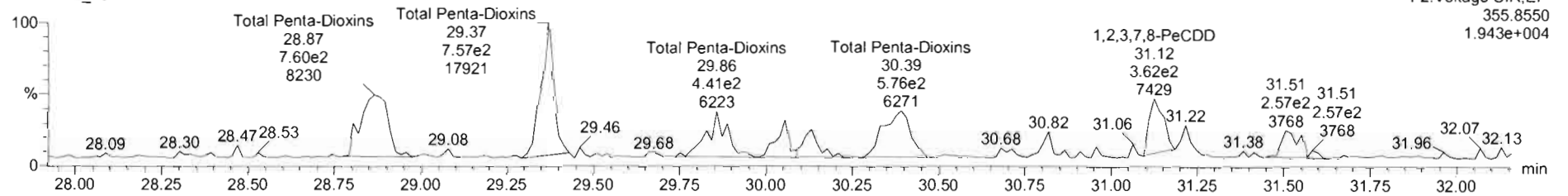
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1,2,3,7,8-PeCDD

200518R2_10

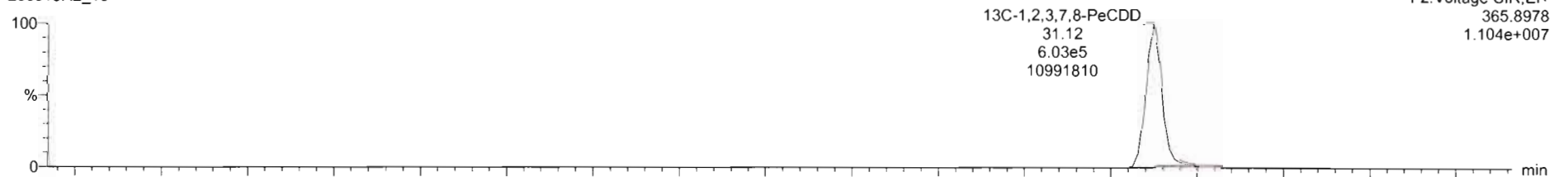


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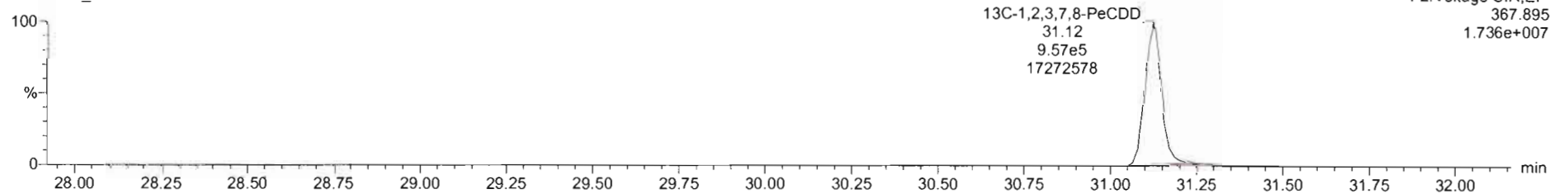


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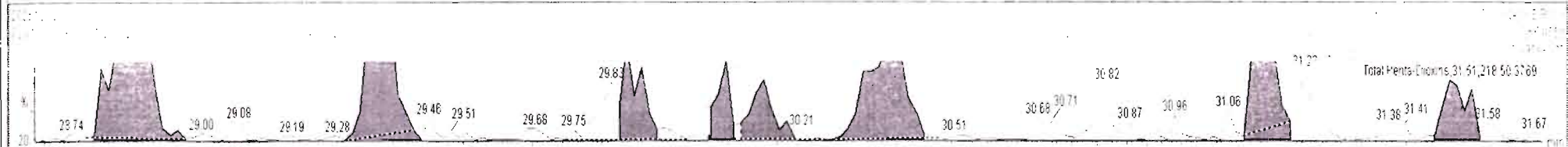
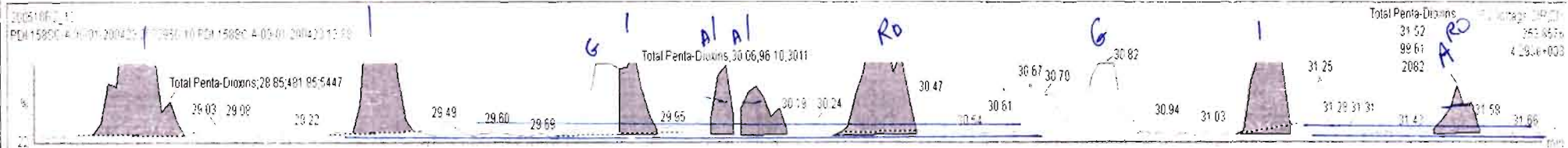


200518R2_10



Name	Resp	RA	n/y	RFI	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.885			0.374	0.0429	0.550	
40 Total Penta-Dioxins				0.9425	10.885			0.900	0.0503	0.630	
41 Total Hexa-Dioxins				0.9145	10.885			3.22	0.0537	3.42	
42 Total Hepta-Dioxins				0.6979	10.885			16.4	0.135	16.4	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Dioxins	28.35	4.819e2	7.799e2	0.62	NO	0.15761	0.15761
2 Total Penta-Dioxins	29.35	4.716e2	8.113e2	0.58	NO	0.16027	0.16027
3 Total Penta-Dioxins	29.87	1.687e2	2.569e2	0.56	NO	0.053164	0.053164
4 Total Penta-Dioxins	30.06	9.610e1	1.441e2	0.67	NO	0.030003	0.030003
5 Total Penta-Dioxins	30.12	1.258e2	1.934e2	0.65	NO	0.039877	0.039877
6 Total Penta-Dioxins	30.38	4.344e2	5.800e2	0.75	YES	0.11809	0.06000
7 1,2,3,7,8-PeCDD	31.14	2.861e2	4.253e2	0.67	NO	0.068874	0.068874
8 Total Penta-Dioxins	31.52	9.961e1	2.185e2	0.46	YES	0.032195	0.00000



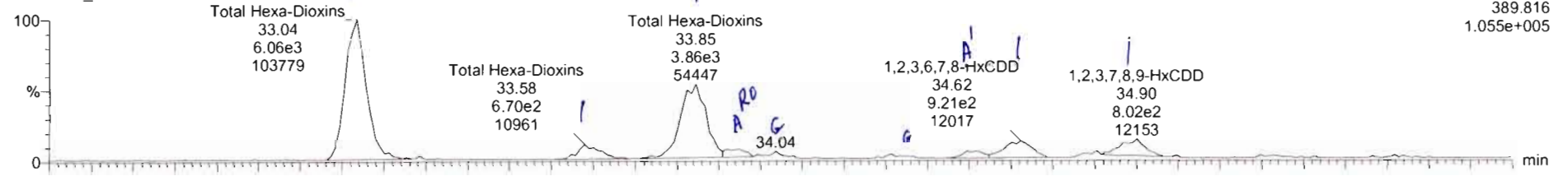
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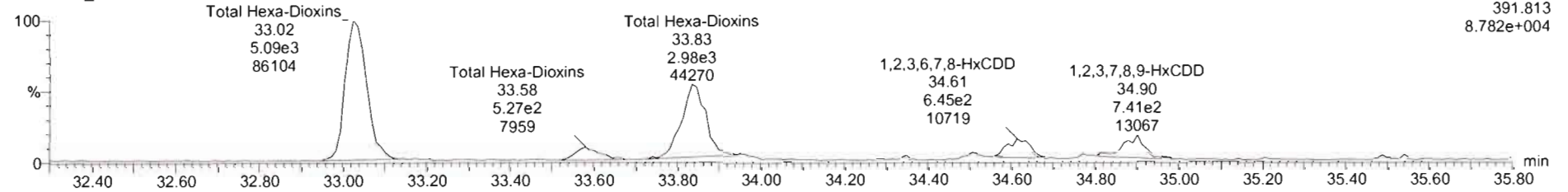
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1,2,3,4,7,8-HxCDD

200518R2_10

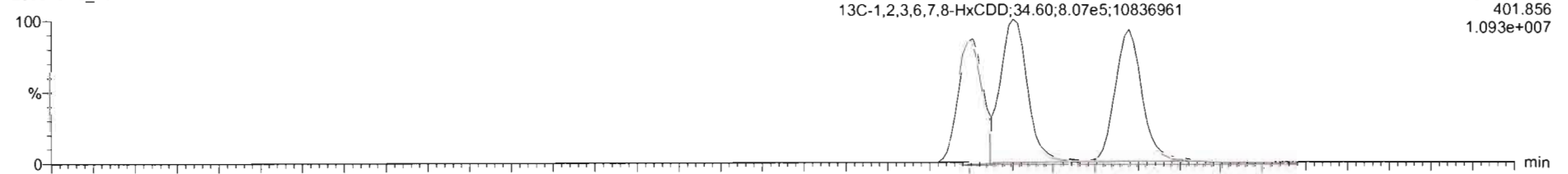


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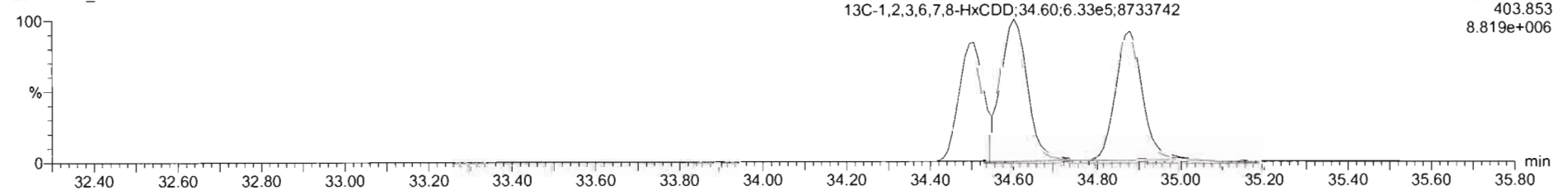


13C-1,2,3,4,7,8-HxCDD

200518R2_10

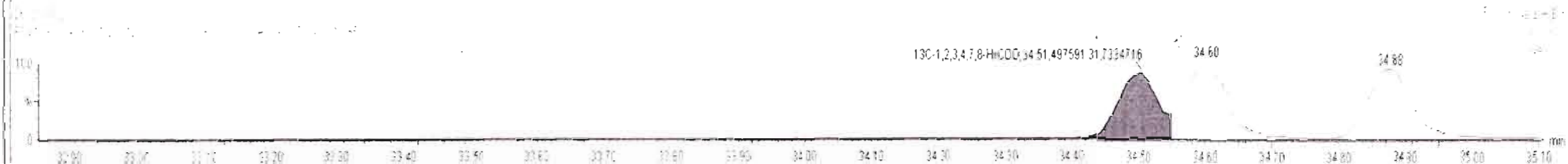
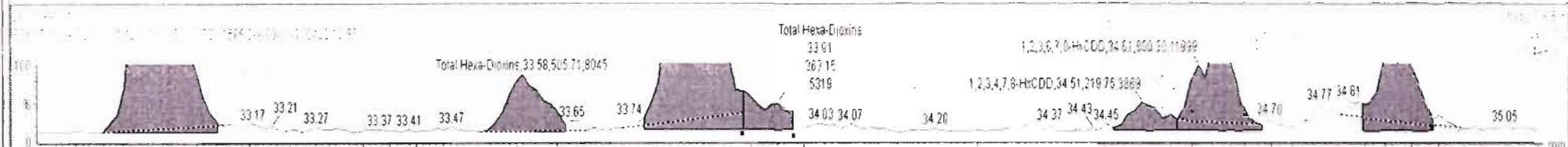


200518R2_10



Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.885			0.374		0.0426	0.550
40 Total Penta-Dioxins				0.9425	10.885			0.500		0.0503	0.660
41 Total Hexa-Dioxins				0.9145	10.885			3.61		0.0537	3.70
42 Total Hepta-Dioxins				0.8979	10.885			16.4		0.135	16.4

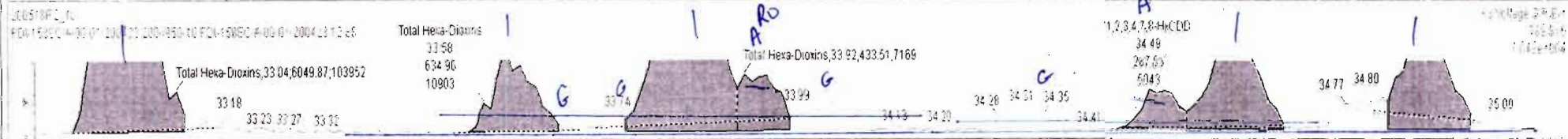
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.04	6.050e3	5.154e3	1.17	NO	1.7416	1.7416
2 Total Hexa-Dioxins	33.58	6.349e2	5.057e2	1.26	NO	0.17730	0.17730
3 Total Hexa-Dioxins	33.65	3.960e3	3.114e3	1.27	NO	1.0995	1.0995
4 Total Hexa-Dioxins	33.92	4.414e2	2.632e2	1.68	YES	0.091632	0.00000
5 1,2,3,4,7,8-HxCDD	34.49	2.670e2	2.198e2	1.31	NO	0.077126	0.077126
6 1,2,3,6,7,8-HxCDD	34.62	9.551e2	8.003e2	1.19	NO	0.24489	0.24489
7 1,2,3,7,8-HxCDD	34.90	9.426e2	7.909e2	1.19	NO	0.26721	0.26721



200518R2_10 - 2000950-10 PDI-158SC-A-00-01-200423 12.88 - PDI-158SC-A-00-01-200423

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.865			0.374		0.0428	0.550
40 Total Penta-Dioxins				0.9425	10.885			0.500		0.0503	0.689
41 Total Hexa-Dioxins				0.9145	10.885			3.63		0.0537	3.70
42 Total Hepta-Dioxins				0.8979	10.885			16.4		0.135	16.4

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	33.04	6.050e3	5.154e3	1.17	NO	1.7416	1.7416
2 Total Hexa-Dioxins	33.58	6.349e2	5.057e2	1.26	NO	0.17730	0.17730
3 Total Hexa-Dioxins	33.65	3.971e3	3.243e3	1.22	NO	1.1213	1.1213
4 Total Hexa-Dioxins	33.92	4.335e2	2.040e2	2.12	YES	0.071048	0.00000
5 1,2,3,4,7,8-HxCDD	34.49	2.870e2	2.158e2	1.31	NO	0.077126	0.077126
6 1,2,3,6,7,8-HxCDD	34.62	9.551e2	8.003e2	1.19	NO	0.24489	0.24489
7 1,2,3,7,8,9-HxCDD	34.90	9.426e2	7.909e2	1.19	NO	0.26721	0.26721



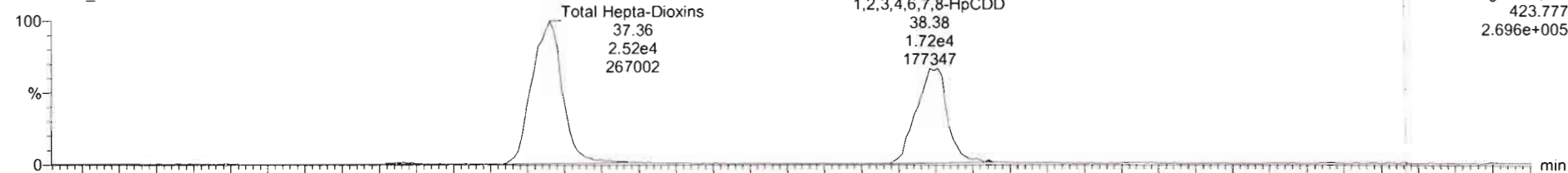
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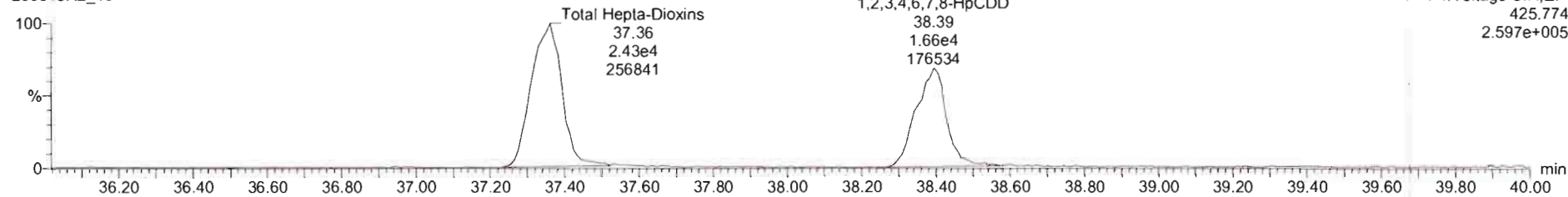
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1,2,3,4,6,7,8-HpCDD

200518R2_10

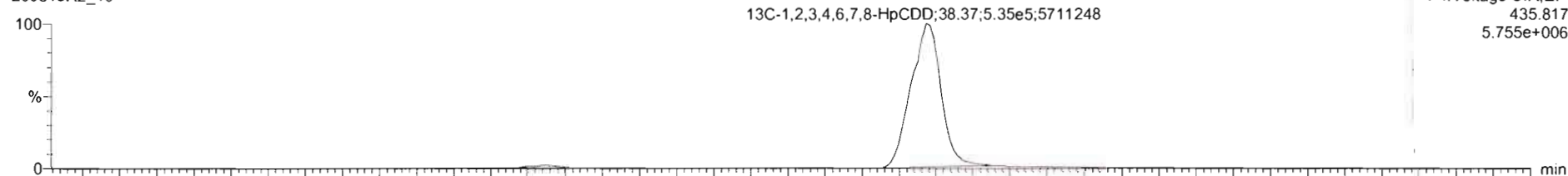


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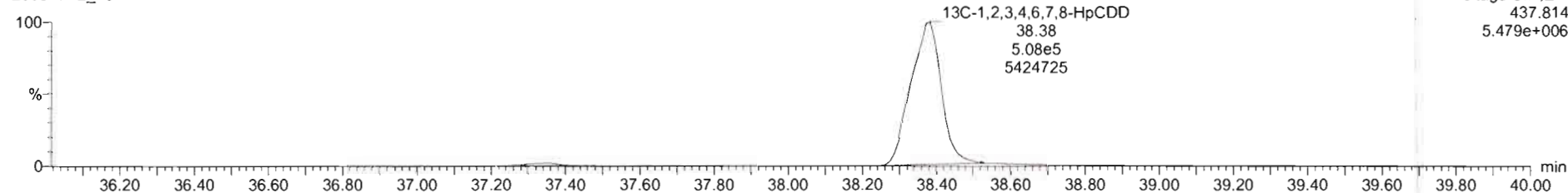


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200518R2_10



200518R2_10

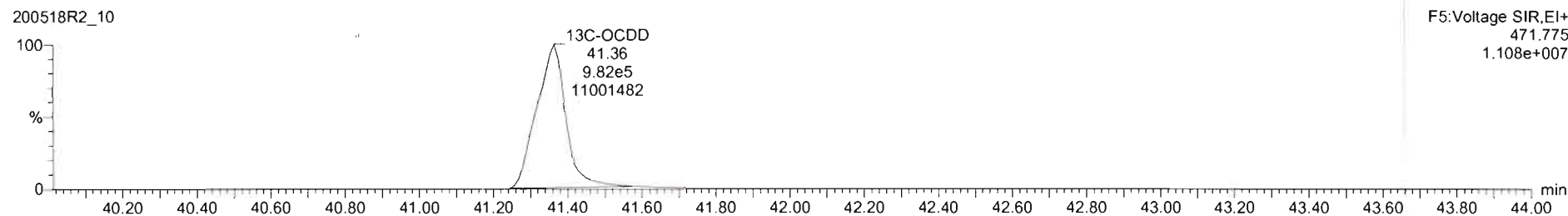
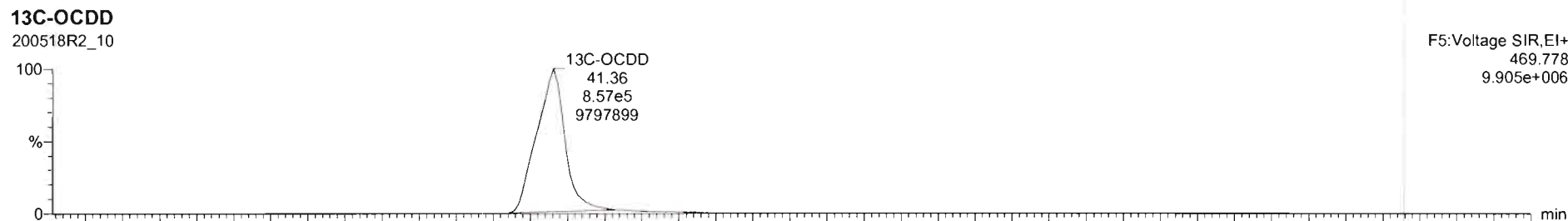
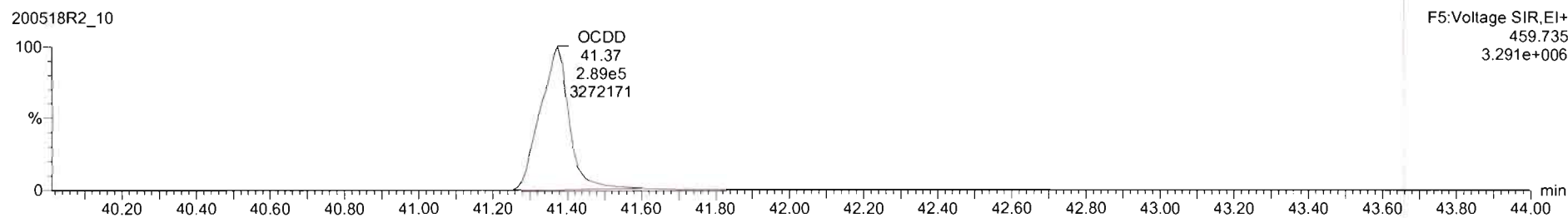
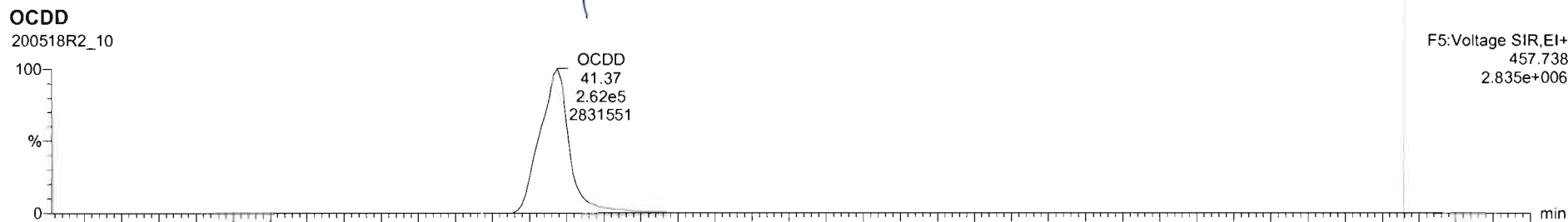


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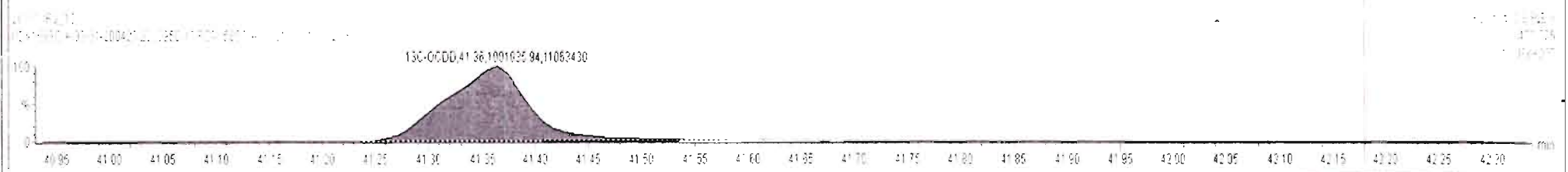
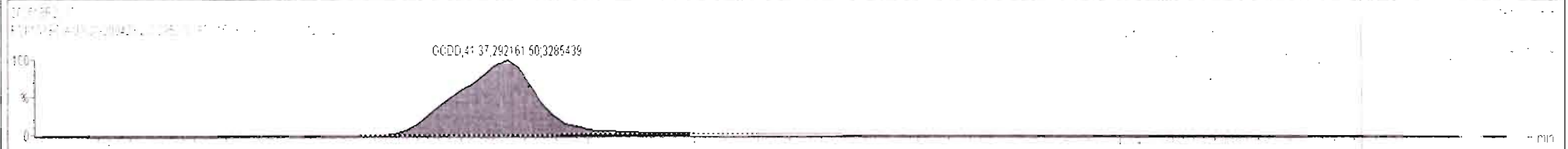
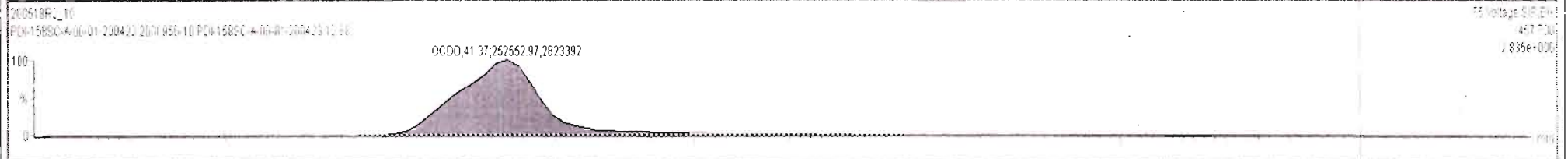
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200518R2_10 - 2000950-10 PDI-158SC-A-00-01-200423 12.88 - PDI-158SC-A-00-01-200423

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
7 OCDD	5.45e5	0.86	NO	0.9335	10.885	41.37	1.000	114		0.188	114
8 2,3,7,8-TCDF	7.89e3	0.67	NO	0.7871	10.885	25.14	1.001	0.933		0.0465	0.933
9 1,2,3,7,8-PeCDF	9.50e3	1.51	NO	0.9102	10.885	29.83	1.001	0.906		0.0262	0.906
10 2,3,4,7,8-PeCDF	5.49e3	1.60	NO	0.9664	10.885	30.63	1.001	0.511		0.0260	0.511

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



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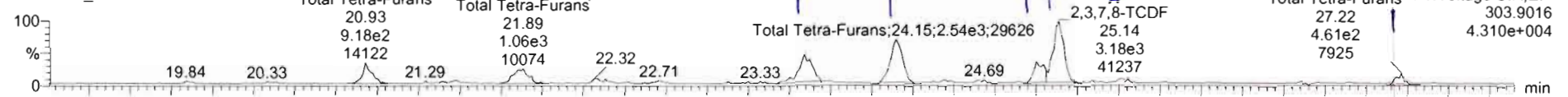
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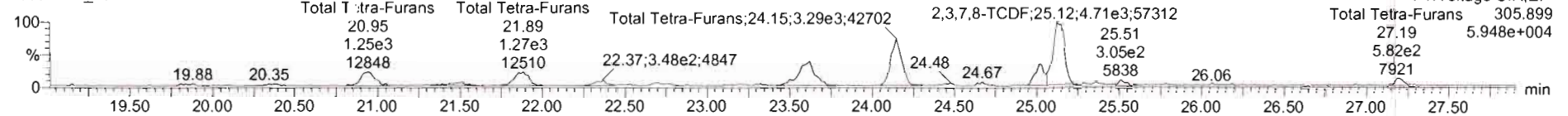
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2,3,7,8-TCDF

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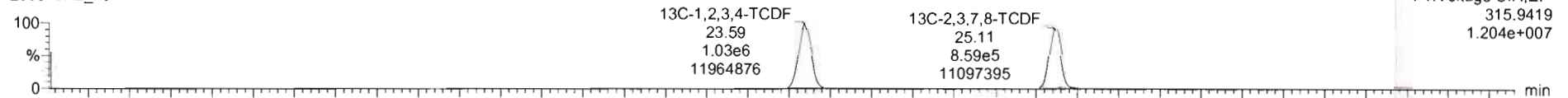


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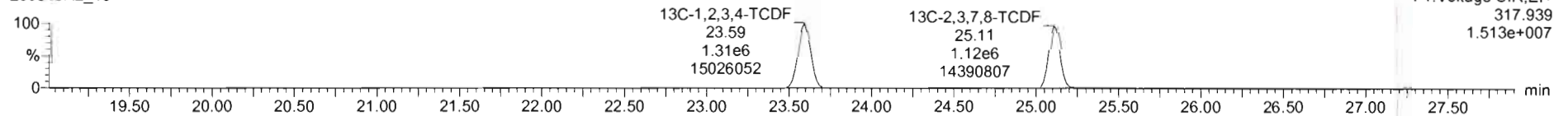


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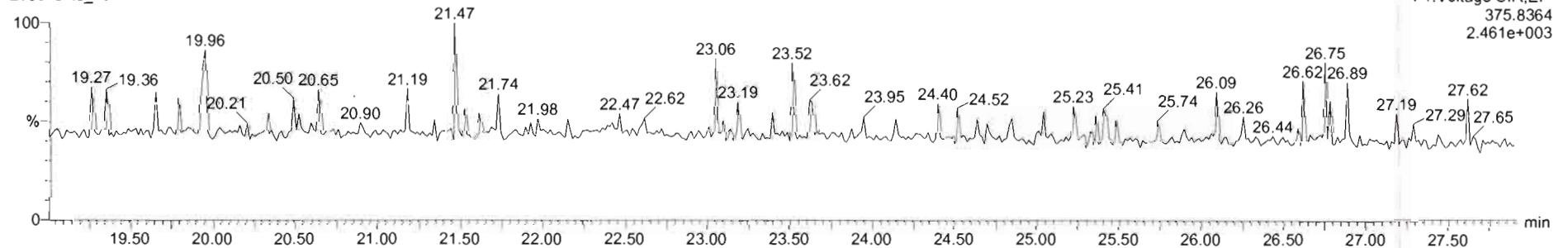


200518R2_10



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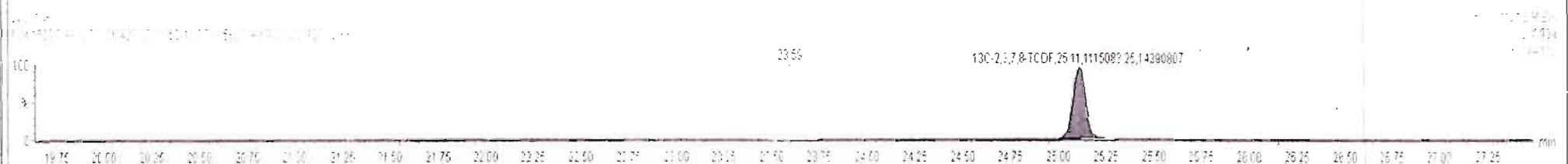
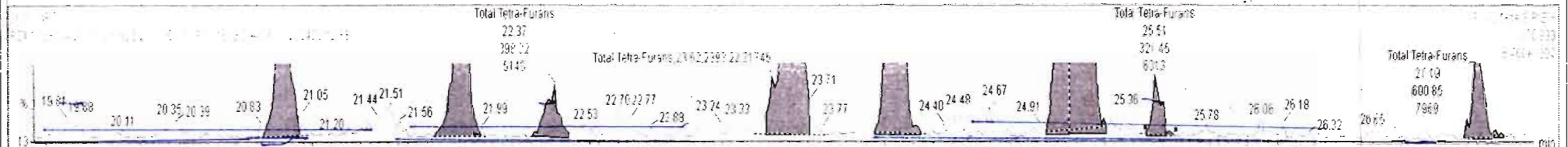
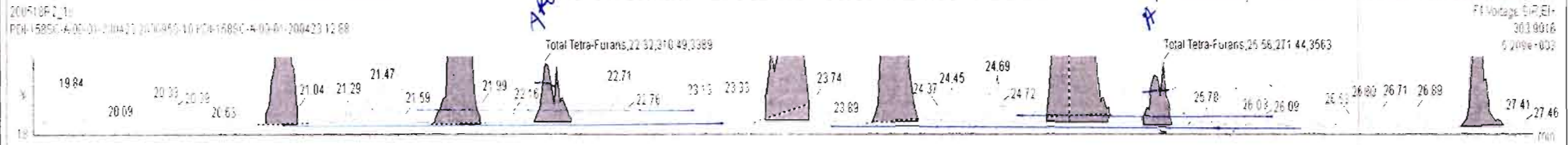
200518R2_10



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.885			3.15		0.0485	3.23
44 1st Func. Penta-Furans				0.9102	10.885			0.365		0.0105	0.365
45 Total Penta-Furans				0.9102	10.885			2.09		0.0269	2.62
46 Total Hexa-Furans				0.9217	10.885			3.64		0.0371	3.64

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Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Tetra-Furans	20.93	8.854e2	1.205e3	0.73	NO	0.24723	0.24723
2 Total Tetra-Furans	21.89	1.045e3	1.250e3	0.84	NO	0.27135	0.27135
3 Total Tetra-Furans	22.32	3.105e2	3.963e2	0.78	NO	0.083816	0.00000
4 Total Tetra-Furans	23.59	1.873e3	2.393e3	0.78	NO	0.50444	0.50444
5 Total Tetra-Furans	24.15	2.559e3	3.326e3	0.77	NO	0.63596	0.63596
6 Total Tetra-Furans	25.00	1.045e3	1.289e3	0.81	NO	0.27608	0.27608
7 2,3,7,8-TCDF	25.14	3.251e3	4.823e3	0.67	NO	0.95475	0.95475
8 Total Tetra-Furans	25.56	2.714e2	3.214e2	0.84	NO	0.070108	0.070108
9 Total Tetra-Furans	27.22	4.808e2	6.008e2	0.77	NO	0.12554	0.12554



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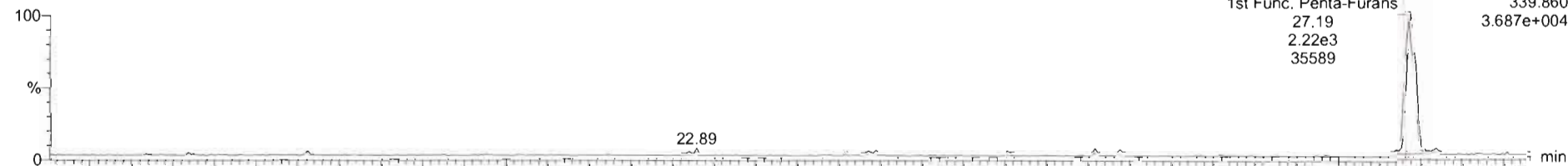
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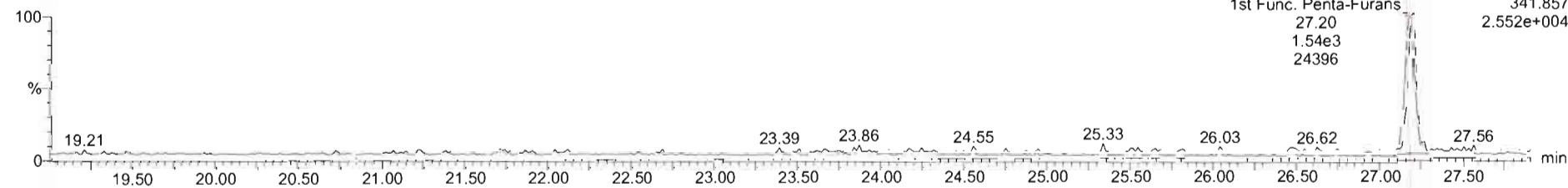
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1st Func. Penta-Furans

200518R2_10

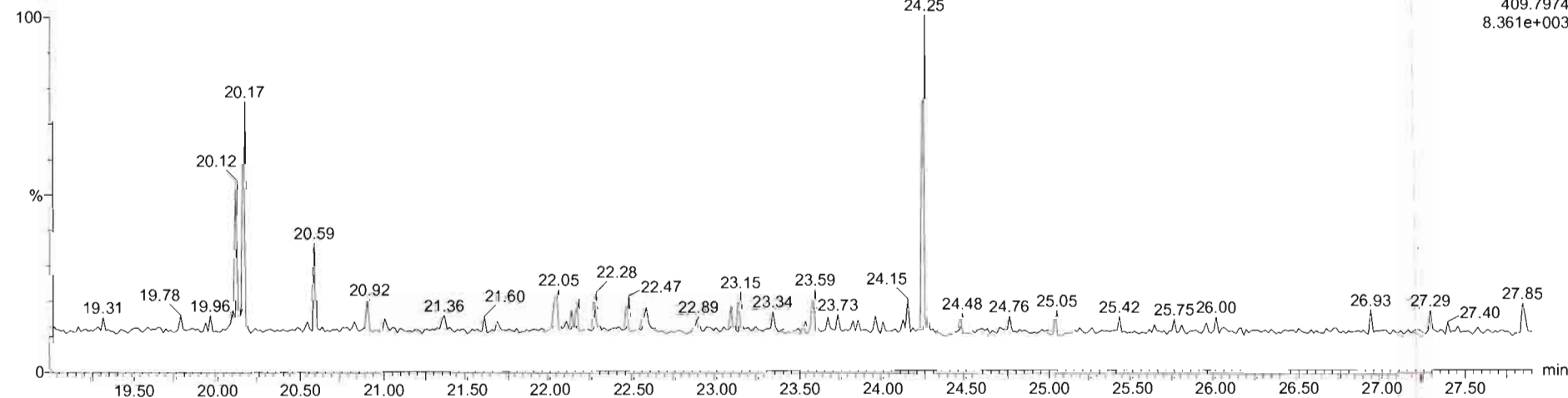


200518R2_10



DPE6

200518R2_10



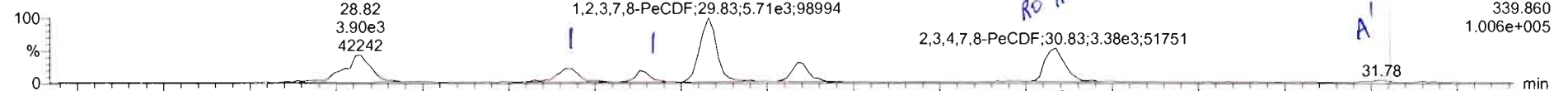
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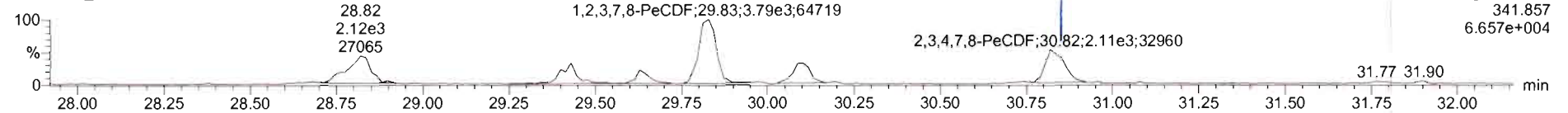
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1,2,3,7,8-PeCDF

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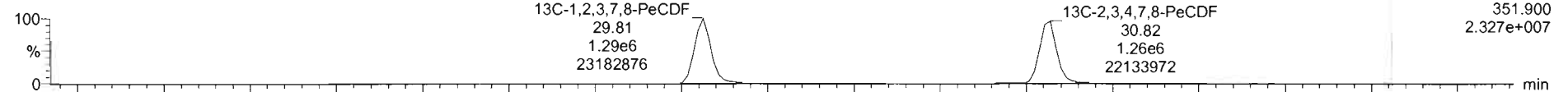


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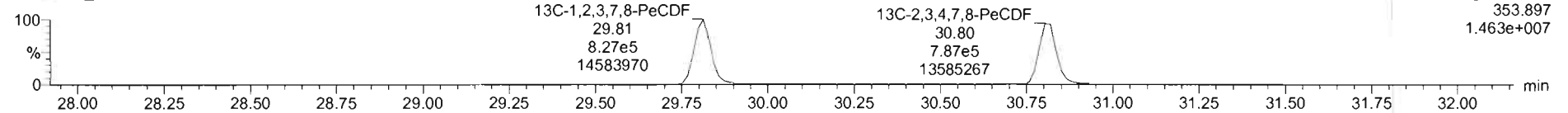


13C-1,2,3,7,8-PeCDF

200518R2_10

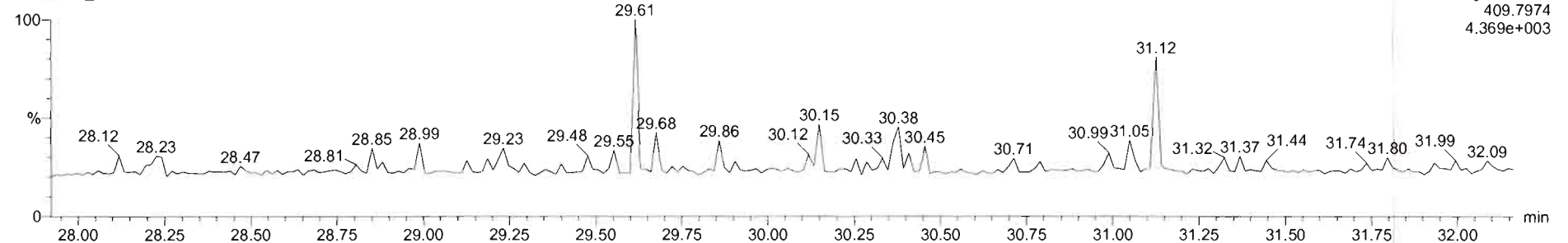


200518R2_10



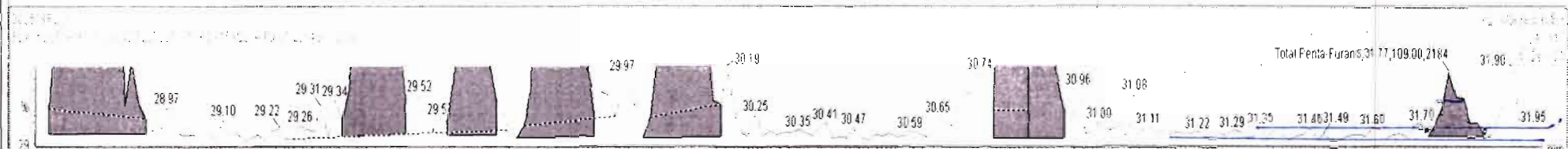
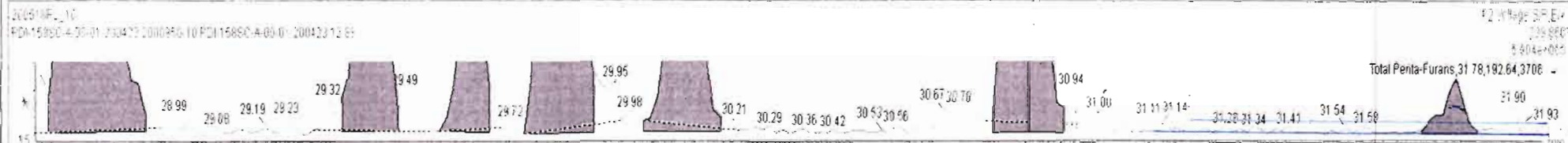
DPE2

200518R2_10



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.885			2.17		0.0269	2.49
46 Total Hexa-Furans				0.9217	10.885			3.64		0.0371	3.64
47 Total Hepta-Furans				0.6712	10.885			4.15		0.106	4.15
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.82	3.695e3	2.271e3	1.53	NO	0.57858	0.57858
2 Total Penta-Furans	29.42	1.409e3	1.013e3	1.39	NO	0.23489	0.23489
3 Total Penta-Furans	29.63	8.240e2	5.699e2	1.45	NO	0.13516	0.13516
4 1,2,3,7,8-PeCDF	29.83	5.620e3	3.844e3	1.46	NO	0.90207	0.90207
5 Total Penta-Furans	30.09	1.745e3	1.260e3	1.36	NO	0.29337	0.29337
6 2,3,4,7,8-PeCDF	30.63	2.444e3	6.623e2	3.69	YES	0.15699	0.00000
7 Total Penta-Furans	30.85	9.977e2	1.585e3	0.63	YES	0.15918	0.00000
8 Total Penta-Furans	31.78	1.926e2	1.090e2	1.77	NO	0.029252	0.029252



200518R2_10 - 2000950-10 PDI-158SC-A-00-01-200423 12.88 - PDI-158SC-A-00-01-200423

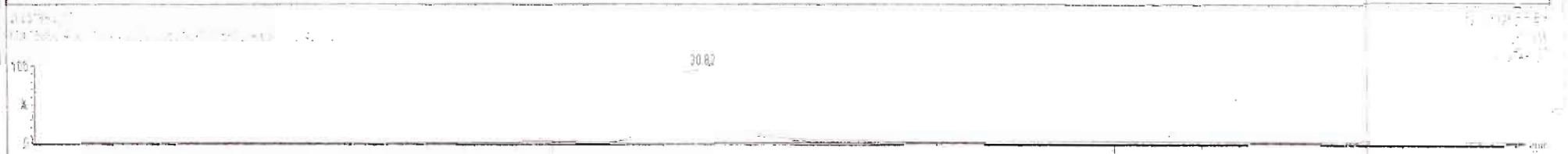
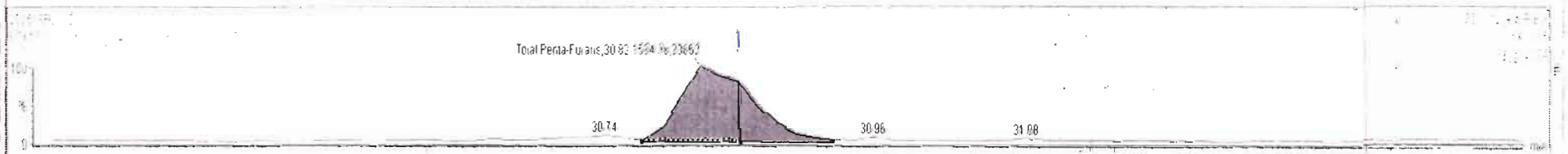
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.885			2.17		0.0269	2.49
46 Total Hexa-Furans				0.9217	10.885			3.64		0.0371	3.64
47 Total Hepta-Furans				0.8712	10.885			4.15		0.106	4.15
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.82	3.695e3	2.271e3	1.63	NO	0.57856	0.57856
2 Total Penta-Furans	29.42	1.409e3	1.013e3	1.39	NO	0.23489	0.23489
3 Total Penta-Furans	29.63	8.240e2	5.698e2	1.45	NO	0.13516	0.13516
4 1,2,3,7,8-PeCDF	29.83	5.620e3	3.844e3	1.46	NO	0.90207	0.90207
5 Total Penta-Furans	30.09	1.745e3	1.280e3	1.36	NO	0.29337	0.29337
6 2,3,4,7,8-PeCDF	30.83	2.444e3	6.623e2	3.69	YES	0.15699	0.00000
7 Total Penta-Furans	30.86	9.977e2	1.585e3	0.63	YES	0.15918	0.00000
8 Total Penta-Furans	31.78	1.926e2	1.090e2	1.77	NO	0.029252	0.029252

200518R2_10
PDI-158SC-A-00-01-200423 12.88

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F2 Voltage Signal
339.000
17 Rev:0.04

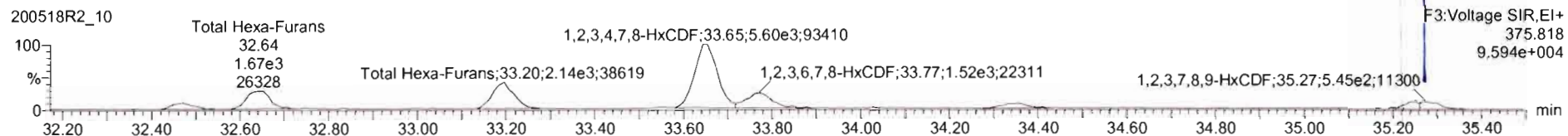
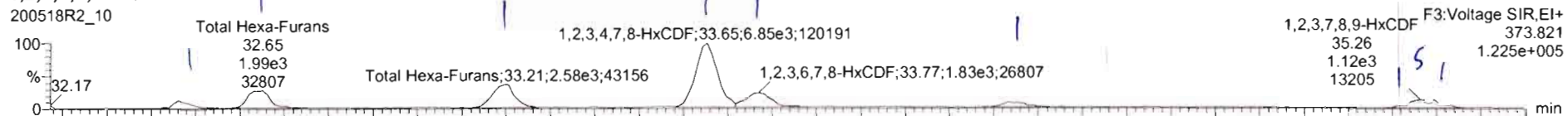


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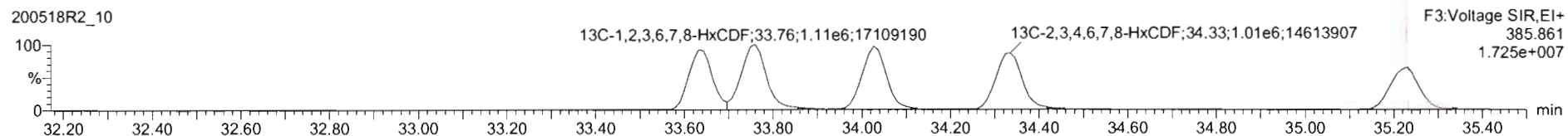
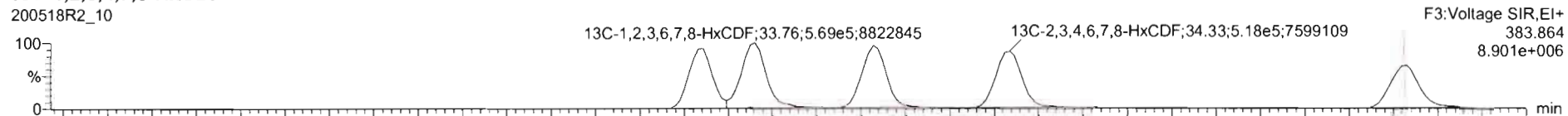
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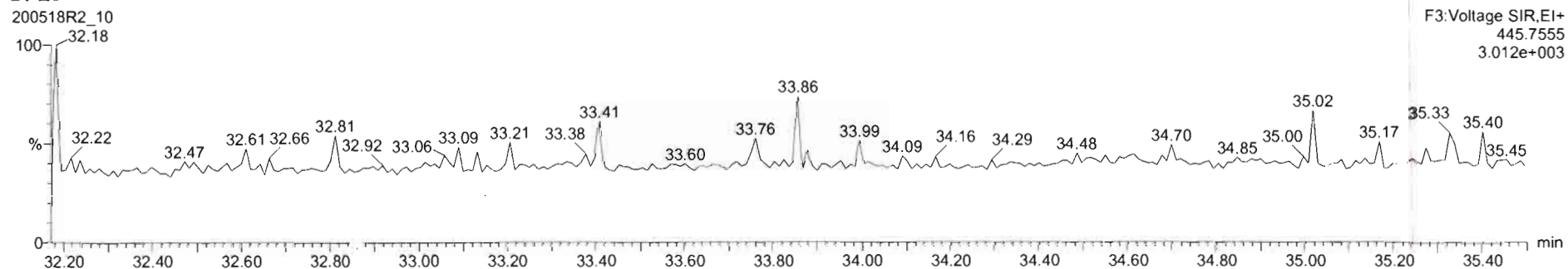
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13C-1,2,3,4,7,8-HxCDF



DPE3

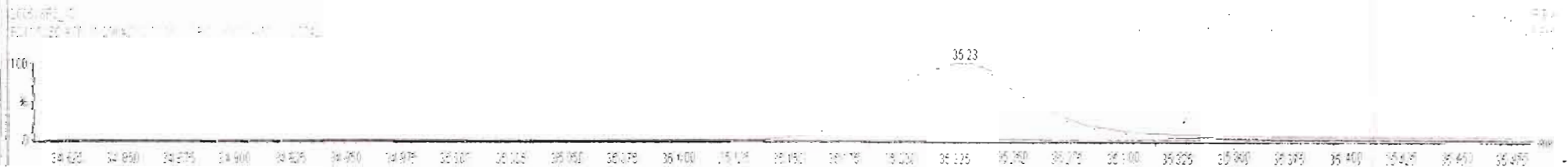
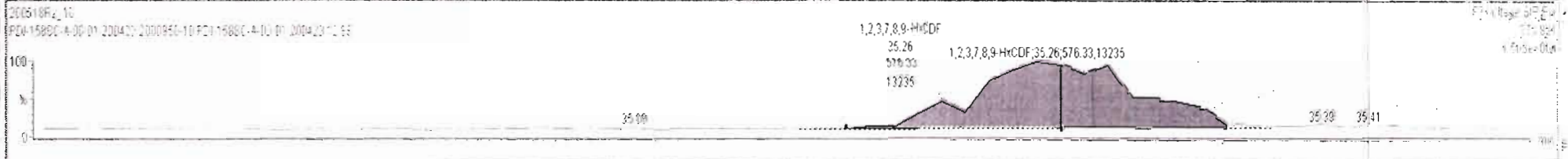




200518R2_10 - 2000950-10 PDI-158SC-A-00-01-200423 12.88 - PDI-158SC-A-00-01-200423

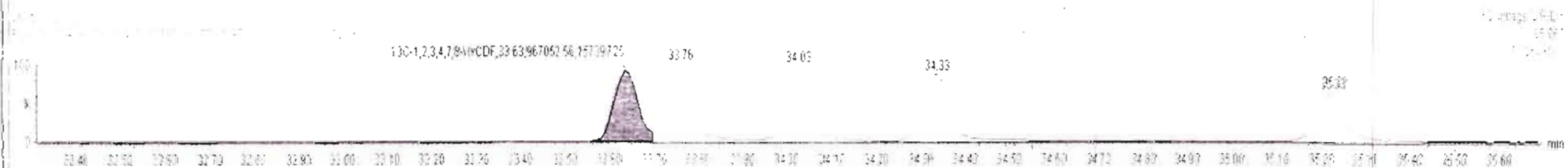
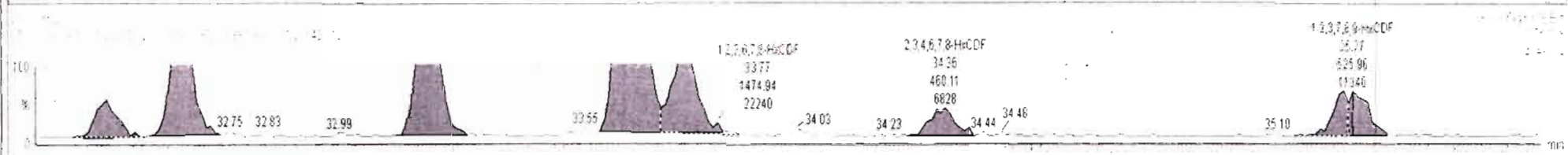
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.885			2.17		0.0269	2.49
46 Total Hexa-Furans				0.9217	10.885			3.93		0.0371	3.93
47 Total Hepta-Furans				0.6712	10.885			4.15		0.106	4.15
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.46	7.063e2	5.461e2	1.29	NO	0.16910	0.16910
2 Total Hexa-Furans	32.65	1.987e3	1.669e3	1.19	NO	0.49068	0.49068
3 Total Hexa-Furans	33.21	2.575e3	2.139e3	1.20	NO	0.63274	0.63274
4 1,2,3,4,7,8-HxCDF	35.65	6.851e3	5.505e3	1.22	NO	1.7809	1.7809
5 1,2,3,6,7,8-HxCDF	35.77	1.759e3	1.475e3	1.22	NO	0.40979	0.40979
6 2,3,4,6,7,8-HxCDF	34.33	5.903e2	4.601e2	1.28	NO	0.13745	0.13745
7 1,2,3,7,8,9-HxCDF	35.26	5.763e2	5.260e2	1.10	NO	0.18387	0.18387
8 Total Hexa-Furans	35.29	5.387e2	4.329e2	1.24	NO	0.13042	0.13042



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.885			2.17	0.0269	2.49	
46 Total Hexa-Furans				0.9217	10.885			3.93	0.0371	3.93	
47 Total Hepta-Furans				0.6712	10.885			4.15	0.106	4.15	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.46	7.063e2	5.461e2	1.29	NO	0.16810	0.16810
2 Total Hexa-Furans	32.65	1.987e3	1.669e2	1.19	NO	0.49068	0.49068
3 Total Hexa-Furans	33.21	2.575e3	2.139e3	1.20	NO	0.63274	0.63274
4 1,2,3,4,7,8-HxCDF	33.65	6.951e3	5.605e2	1.22	NO	1.7903	1.7808
5 1,2,3,6,7,8-HxCDF	33.77	1.799e3	1.475e3	1.22	NO	0.40979	0.40979
6 2,3,4,6,7,8-HxCDF	34.33	5.903e2	4.601e2	1.28	NO	0.13745	0.13745
7 1,2,3,7,8,9-HxCDF	35.26	5.763e2	5.260e2	1.10	NO	0.18387	0.18387
8 Total Hexa-Furans	35.29	5.387e2	4.329e2	1.24	NO	0.13042	0.13042



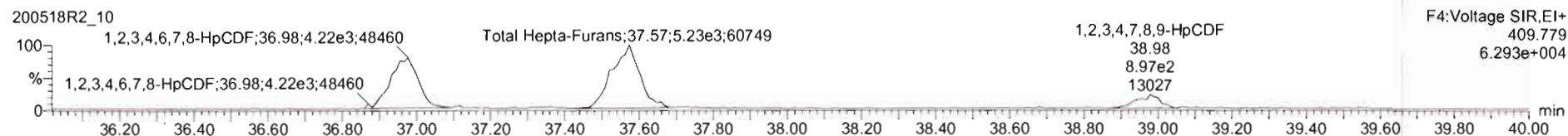
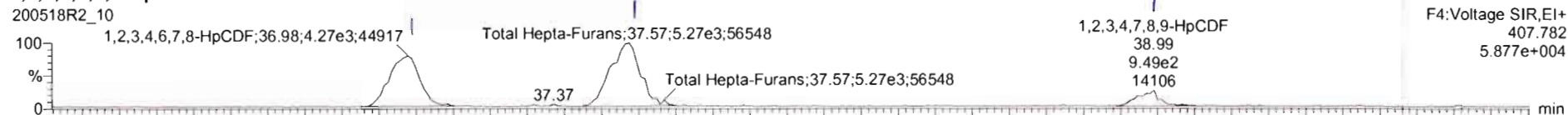
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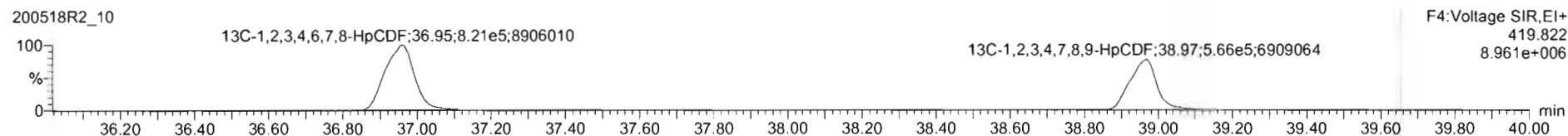
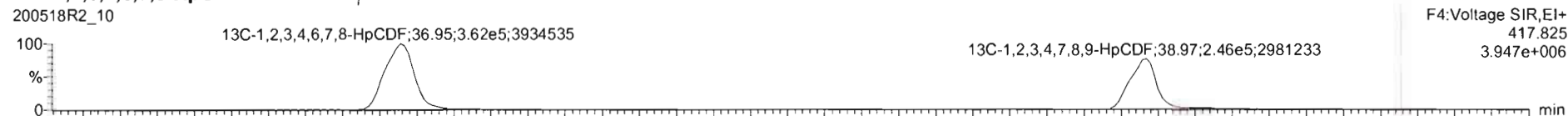
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Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

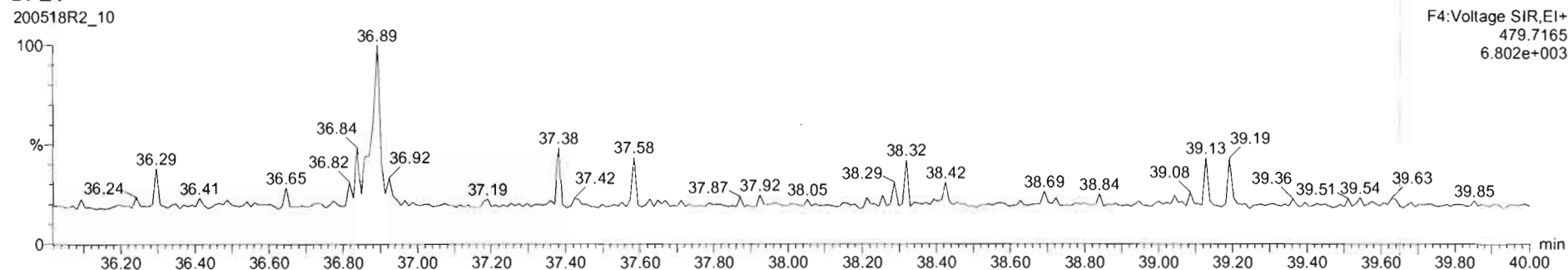
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13C-1,2,3,4,6,7,8-HpCDF



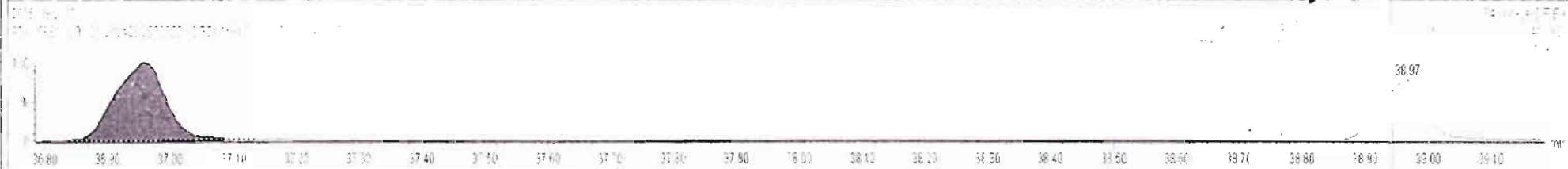
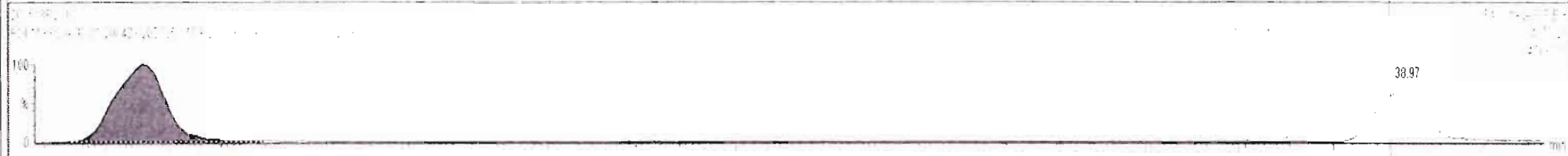
DPE4



200518R2_10 - 2000950-10 PDI-158SC-A-00-01-200423 12.88 - PDI-158SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.885			2.17	0.0269	2.49	
46 Total Hexa-Furane				0.9217	10.885			3.93	0.0371	3.53	
47 Total Hepta-Furans				0.8712	10.885			4.13	0.105	4.13	
48 PFK1											

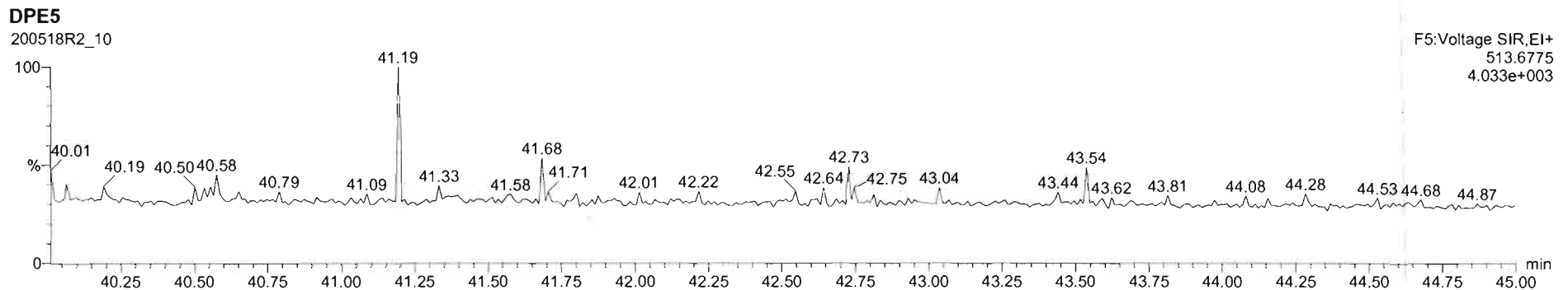
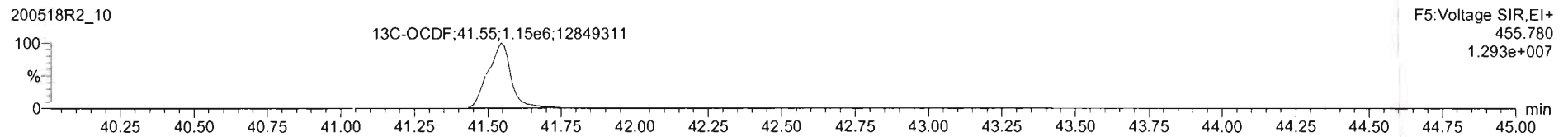
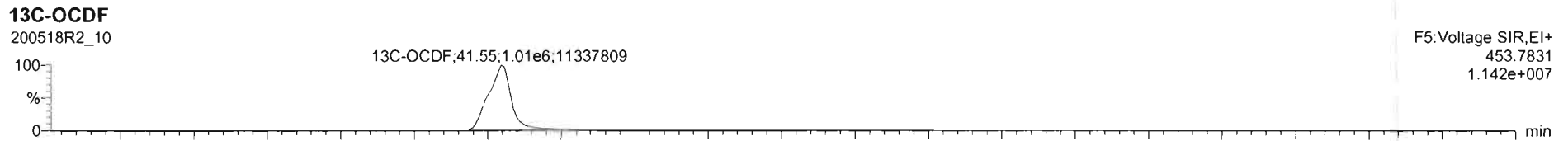
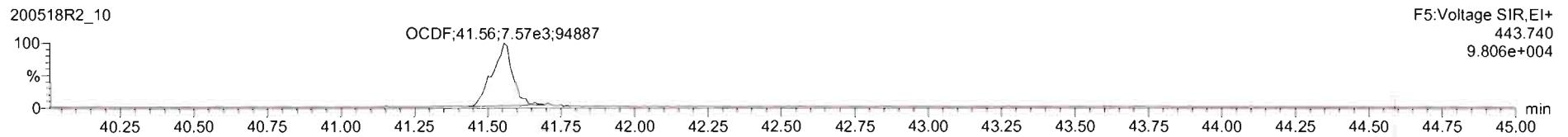
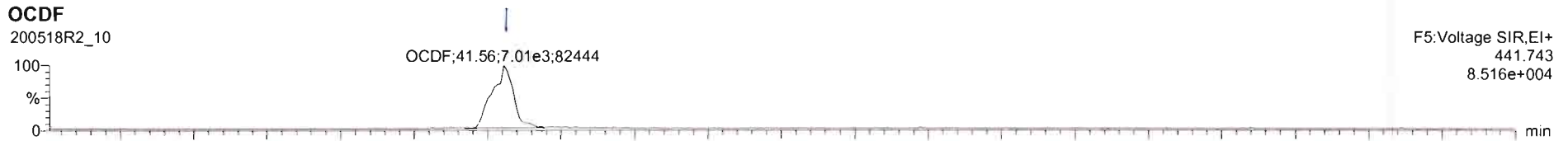
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.93	4.232e3	4.225e3	1.00	NO	1.5073	1.5073
2 Total Hepta-Furane	37.57	5.220e3	5.265e3	0.99	NO	2.2173	2.2173
3 1,2,3,4,7,8,9-HpCDF	38.93	9.115e2	9.097e2	1.00	NO	0.40779	0.40779



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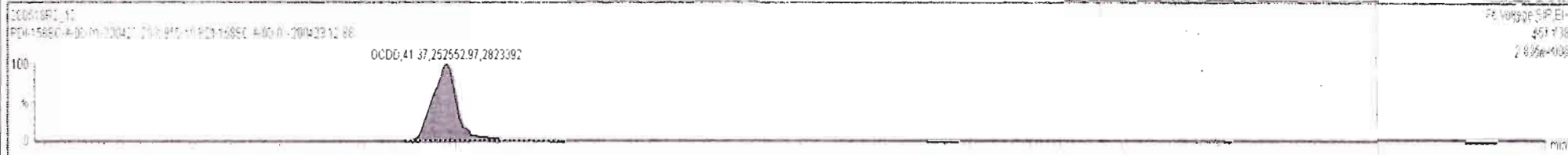
Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423



200518R2_10 - 2000950-10 PDI-158SC-A-00-01-200423 12:38 - PDI-158SC-A-00-01-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	5.45e5	0.86	NO	0.9305	10.885	41.37	1.000	114		0.188	114
8 2,3,7,8-TCDF	8.07e3	0.67	NO	0.7871	10.885	25.14	1.001	0.955		0.0485	0.955
9 1,2,3,7,8-PeCDF	9.46e3	1.46	NO	0.9102	10.885	25.83	1.000	0.902		0.0262	0.902
10 2,3,4,7,8-PeCDF	3.11e3	3.33	YES	0.9664	10.685	30.83	1.001	0.289		0.0260	0.157

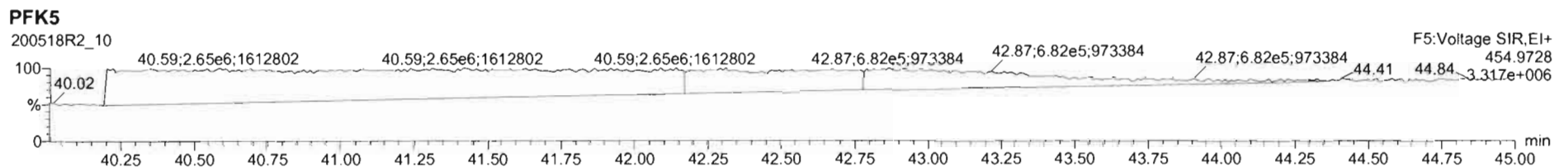
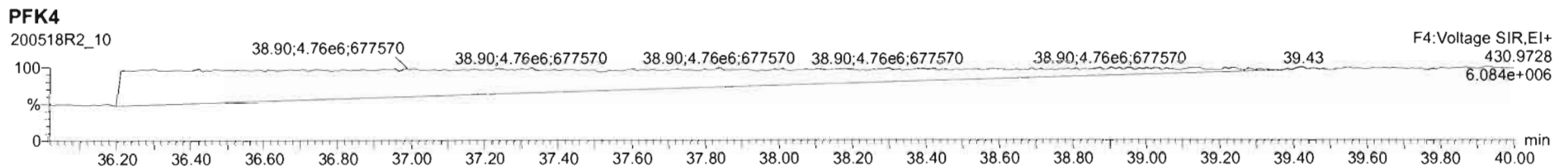
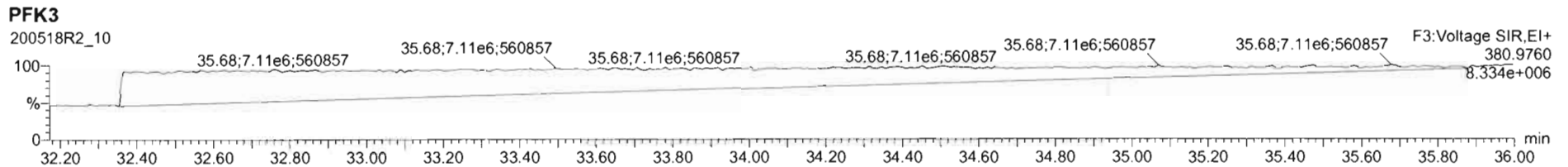
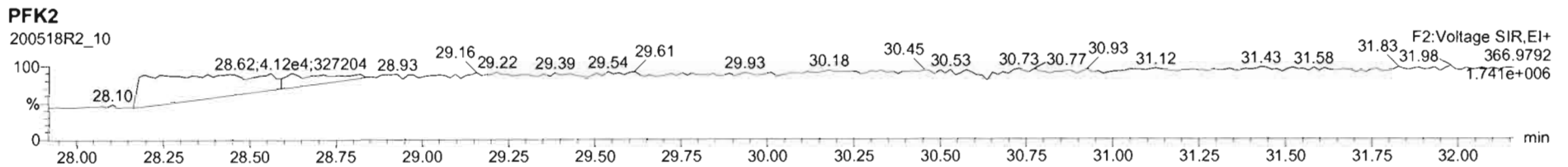
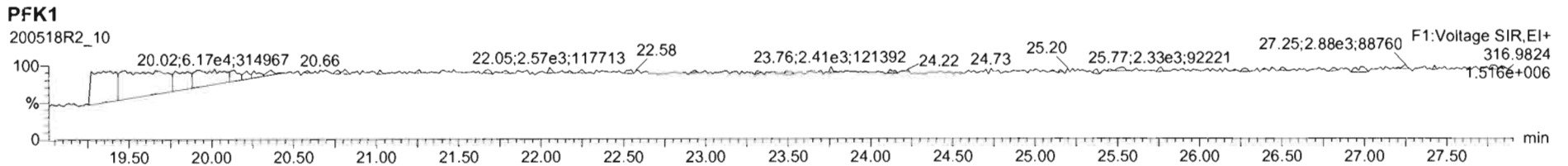
Name	RT	n1 Resp	n2 Resp	RA	n/y	EMPC	Conc
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Name: 200518R2_10, Date: 18-May-2020, Time: 20:58:36, ID: 2000950-10 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423



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07 05/22/2020

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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	0.947	10.127	26.066		1.001				0.0389	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.127	31.147		1.001				0.0566	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.127	34.515		1.000				0.0406	
4	4 1,2,3,6,7,8-HxCDD	8.52e2	1.06	NO	0.915	10.127	34.612	34.63	1.000	1.001	0.13109		0.0414	0.131
5	5 1,2,3,7,8,9-HxCDD	5.14e2	1.91	YES	0.915	10.127	34.899	34.90	1.000	1.000	0.085688		0.0404	0.0659
6	6 1,2,3,4,6,7,8-HpCDD	1.48e4	1.02	NO	0.898	10.127	38.404	38.40	1.000	1.000	3.3065		0.0671	3.31
7	7 OCDD	1.28e5	0.87	NO	0.933	10.127	41.375	41.39	1.000	1.000	33.263		0.0833	33.3
8	8 2,3,7,8-TCDF	1.06e3	0.78	NO	0.787	10.127	25.132	25.12	1.001	1.001	0.12224		0.0459	0.122
9	9 1,2,3,7,8-PeCDF	1.25e3	1.15	YES	0.910	10.127	29.834	29.83	1.001	1.000	0.12756		0.0277	0.112
10	10 2,3,4,7,8-PeCDF	7.04e2	4.50	YES	0.966	10.127	30.851	30.85	1.001	1.001	0.070149		0.0248	0.0325
11	11 1,2,3,4,7,8-HxCDF	1.89e3	1.07	NO	0.878	10.127	33.643	33.66	1.000	1.001	0.28888		0.0278	0.289
12	12 1,2,3,6,7,8-HxCDF	8.22e2	0.95	YES	0.874	10.127	33.781	33.79	1.000	1.001	0.11181		0.0277	0.0983
13	13 2,3,4,6,7,8-HxCDF	4.53e2	1.24	NO	0.922	10.127	34.380	34.35	1.001	1.000	0.063743		0.0278	0.0637
14	14 1,2,3,7,8,9-HxCDF	3.51e2	1.13	NO	0.864	10.127	35.230	35.25	1.000	1.001	0.062652		0.0394	0.0627
15	15 1,2,3,4,6,7,8-HpCDF	2.98e3	1.16	NO	0.871	10.127	37.003	36.98	1.001	1.000	0.58842		0.0271	0.588
16	16 1,2,3,4,7,8,9-HpCDF	3.71e2	0.96	NO	1.01	10.127	38.968	38.99	1.000	1.001	0.091804		0.0308	0.0918
17	17 OCDF	6.97e3	0.86	NO	0.802	10.127	41.556	41.57	1.000	1.000	1.7640		0.0417	1.76
18	18 13C-2,3,7,8-TCDD	1.77e6	0.78	NO	1.16	10.127	26.031	26.03	1.026	1.027	171.12	86.6	0.141	
19	19 13C-1,2,3,7,8-PeCDD	1.53e6	0.63	NO	0.847	10.127	31.123	31.13	1.227	1.227	202.32	102	0.185	
20	20 13C-1,2,3,4,7,8-HxCDD	1.12e6	1.27	NO	0.750	10.127	34.517	34.51	1.014	1.014	187.47	94.9	0.264	
21	21 13C-1,2,3,6,7,8-HxCDD	1.40e6	1.27	NO	0.963	10.127	34.629	34.61	1.017	1.017	182.78	92.6	0.206	
22	22 13C-1,2,3,7,8,9-HxCDD	1.29e6	1.25	NO	0.838	10.127	34.898	34.89	1.025	1.025	193.79	98.1	0.236	
23	23 13C-1,2,3,4,6,7,8-HpCDD	9.87e5	1.05	NO	0.641	10.127	38.390	38.39	1.128	1.128	192.90	97.7	0.222	
24	24 13C-OCDD	1.63e6	0.89	NO	0.586	10.127	41.386	41.38	1.216	1.216	349.36	88.5	0.388	
25	25 13C-2,3,7,8-TCDF	2.18e6	0.77	NO	1.03	10.127	25.090	25.11	0.989	0.990	165.97	84.0	0.211	
26	26 13C-1,2,3,7,8-PeCDF	2.13e6	1.57	NO	0.845	10.127	29.812	29.81	1.176	1.176	198.54	101	0.410	
27	27 13C-2,3,4,7,8-PeCDF	2.05e6	1.58	NO	0.814	10.127	30.803	30.82	1.215	1.215	198.47	100	0.426	
28	28 13C-1,2,3,4,7,8-HxCDF	1.47e6	0.51	NO	1.00	10.127	33.656	33.64	0.989	0.988	183.32	92.8	0.311	
29	29 13C-1,2,3,6,7,8-HxCDF	1.66e6	0.51	NO	1.14	10.127	33.778	33.77	0.992	0.992	183.27	92.8	0.275	
30	30 13C-2,3,4,6,7,8-HxCDF	1.52e6	0.51	NO	1.02	10.127	34.347	34.35	1.009	1.009	186.94	94.7	0.306	
31	31 13C-1,2,3,7,8,9-HxCDF	1.28e6	0.50	NO	0.845	10.127	35.239	35.23	1.035	1.035	189.86	96.1	0.371	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-11.qld

Last Altered: Wednesday, May 20, 2020 12:23:50 Pacific Daylight Time

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Name: 200518R2_11, Date: 18-May-2020, Time: 21:44:47, ID: 2000950-11 PDI-158SC-A-01-02-200423 11.36, Description: PDI-158SC-A-01-02-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.15e6	0.43	NO	0.771	10.127	36.971	36.97	1.086	1.086	186.42	94.4	0.308	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.89e5	0.41	NO	0.482	10.127	38.983	38.97	1.145	1.145	205.24	104	0.492	
34	34 13C-OCDF	1.94e6	0.87	NO	0.669	10.127	41.556	41.56	1.221	1.221	364.71	92.3	0.258	
35	35 37Cl-2,3,7,8-TCDD	6.84e5			1.10	10.127	26.061	26.07	1.028	1.028	69.866	88.4	0.0395	
36	36 13C-1,2,3,4-TCDD	1.76e6	0.79	NO	1.00	10.127	25.350	25.36	1.000	1.000	197.49	100	0.163	
37	37 13C-1,2,3,4-TCDF	2.51e6	0.79	NO	1.00	10.127	23.560	23.59	1.000	1.000	197.49	100	0.218	
38	38 13C-1,2,3,4,6,9-HxCDF	1.58e6	0.52	NO	1.00	10.127	34.000	34.04	1.000	1.000	197.49	100	0.313	
39	39 Total Tetra-Dioxins				0.947	10.127	24.620		0.000		0.12532		0.0389	0.245
40	40 Total Penta-Dioxins				0.942	10.127	29.960		0.000		0.19683		0.0566	0.197
41	41 Total Hexa-Dioxins				0.915	10.127	33.635		0.000		1.7589		0.0448	1.88
42	42 Total Hepta-Dioxins				0.898	10.127	37.640		0.000		8.1331		0.0671	8.13
43	43 Total Tetra-Furans				0.787	10.127	23.610		0.000		0.41602		0.0459	0.416
44	44 1st Func. Penta-Furans				0.910	10.127	27.090		0.000		0.28974		0.00999	0.290
45	45 Total Penta-Furans				0.910	10.127	29.275		0.000		0.23425		0.0270	0.415
46	46 Total Hexa-Furans				0.922	10.127	33.555		0.000		1.2025		0.0290	1.33
47	47 Total Hepta-Furans				0.871	10.127	37.835		0.000		2.0988		0.0306	2.10

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Dataset: U:\VG12.PRO\Results\200518R2\200518R2-11.qld

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Name: 200518R2_11, Date: 18-May-2020, Time: 21:44:47, ID: 2000950-11 PDI-158SC-A-01-02-200423 11.36, Description: PDI-158SC-A-01-02-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.76	8.005e3	6.749e3	4.805e2	5.826e2	0.82	NO	1.063e3	0.12532	0.12532	0.0389
2	Total Tetra-Dioxins	25.81	7.191e3	7.421e3	5.300e2	5.760e2	0.92	YES	0.000e0	0.00000	0.12016	0.0389

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	28.88	3.664e3	8.372e3	3.113e2	4.732e2	0.66	NO	7.845e2	0.10761	0.10761	0.0566
2	Total Penta-Dioxins	29.37	4.766e3	7.258e3	2.315e2	4.190e2	0.55	NO	6.505e2	0.089219	0.089219	0.0566

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.04	6.476e4	5.606e4	3.135e3	2.669e3	1.17	NO	5.804e3	0.98436	0.98436	0.0448
2	Total Hexa-Dioxins	33.60	8.430e3	5.283e3	2.324e2	1.504e2	1.54	YES	0.000e0	0.00000	0.057157	0.0448
3	Total Hexa-Dioxins	33.86	3.127e4	2.836e4	2.137e3	1.658e3	1.29	NO	3.794e3	0.64349	0.64349	0.0448
4	1,2,3,6,7,8-HxCDD	34.63	9.431e3	7.468e3	4.376e2	4.147e2	1.06	NO	8.522e2	0.13109	0.13109	0.0414
5	1,2,3,7,8,9-HxCDD	34.90	7.165e3	4.488e3	3.374e2	1.765e2	1.91	YES	5.139e2	0.00000	0.065918	0.0464

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.37	1.827e5	1.612e5	1.107e4	1.059e4	1.05	NO	2.166e4	4.8266	4.8266	0.0671
2	1,2,3,4,6,7,8-HpCDD	38.40	1.097e5	1.138e5	7.496e3	7.340e3	1.02	NO	1.484e4	3.3065	3.3065	0.0671

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-11.qld

Last Altered: Wednesday, May 20, 2020 12:23:50 Pacific Daylight Time

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Name: 200518R2_11, Date: 18-May-2020, Time: 21:44:47, ID: 2000950-11 PDI-158SC-A-01-02-200423 11.36, Description: PDI-158SC-A-01-02-200423

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Furans	20.95	7.003e3	7.480e3	4.874e2	5.513e2	0.88	NO	1.039e3	0.11955	0.11955	0.0459
2	Total Tetra-Furans	21.86	2.866e3	3.513e3	2.092e2	3.178e2	0.66	NO	5.269e2	0.060655	0.060655	0.0459
3	Total Tetra-Furans	24.13	5.479e3	6.117e3	4.489e2	5.377e2	0.83	NO	9.866e2	0.11357	0.11357	0.0459
4	2,3,7,8-TCDF	25.12	9.326e3	7.773e3	4.645e2	5.974e2	0.78	NO	1.062e3	0.12224	0.12224	0.0459

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.19	2.485e4	1.641e4	1.687e3	1.105e3	1.53	NO	2.792e3	0.28974	0.28974	0.00999

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.84	1.569e4	1.001e4	1.047e3	7.695e2	1.36	NO	1.817e3	0.18855	0.18855	0.0270
2	1,2,3,7,8-PeCDF	29.83	1.439e4	1.007e4	6.699e2	5.824e2	1.15	YES	1.252e3	0.00000	0.11225	0.0277
3	Total Penta-Furans	30.10	5.929e3	2.938e3	2.807e2	1.597e2	1.76	NO	4.403e2	0.045696	0.045696	0.0270
4	2,3,4,7,8-PeCDF	30.85	1.168e4	5.821e3	5.760e2	1.281e2	4.50	YES	7.041e2	0.00000	0.032534	0.0248
5	Total Penta-Furans	30.87	1.029e4	5.938e3	2.118e2	3.227e2	0.66	YES	0.000e0	0.00000	0.036161	0.0270

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.49	7.402e3	6.760e3	3.597e2	2.820e2	1.28	NO	6.417e2	0.092671	0.092671	0.0290
2	Total Hexa-Furans	32.65	1.959e4	2.102e4	1.081e3	9.146e2	1.18	NO	1.996e3	0.28821	0.28821	0.0290
3	Total Hexa-Furans	33.20	3.077e4	2.457e4	1.603e3	1.211e3	1.32	NO	2.814e3	0.40635	0.40635	0.0290
4	1,2,3,4,7,8-HxCDF	33.66	1.682e4	1.810e4	9.754e2	9.121e2	1.07	NO	1.887e3	0.28888	0.28888	0.0278
5	1,2,3,6,7,8-HxCDF	33.79	8.967e3	6.665e3	4.001e2	4.221e2	0.95	YES	8.223e2	0.00000	0.098294	0.0277
6	2,3,4,6,7,8-HxCDF	34.35	4.713e3	5.416e3	2.511e2	2.023e2	1.24	NO	4.535e2	0.063743	0.063743	0.0278
7	1,2,3,7,8,9-HxCDF	35.25	3.831e3	3.600e3	1.864e2	1.643e2	1.13	NO	3.507e2	0.062652	0.062652	0.0394
8	Total Hexa-Furans	35.27	2.708e3	3.578e3	1.035e2	1.142e2	0.91	YES	0.000e0	0.00000	0.027004	0.0290

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Dataset: U:\VG12.PRO\Results\200518R2\200518R2-11.qld

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Name: 200518R2_11, Date: 18-May-2020, Time: 21:44:47, ID: 2000950-11 PDI-158SC-A-01-02-200423 11.36, Description: PDI-158SC-A-01-02-200423

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	36.98	2.492e4	2.171e4	1.599e3	1.377e3	1.16	NO	2.976e3	0.58842	0.58842	0.0271
2	Total Hepta-Furans	37.58	4.592e4	4.638e4	2.935e3	3.123e3	0.94	NO	6.058e3	1.4186	1.4186	0.0306
3	1,2,3,4,7,8,9-HpCDF	38.99	3.651e3	3.349e3	1.822e2	1.890e2	0.96	NO	3.712e2	0.091804	0.091804	0.0308

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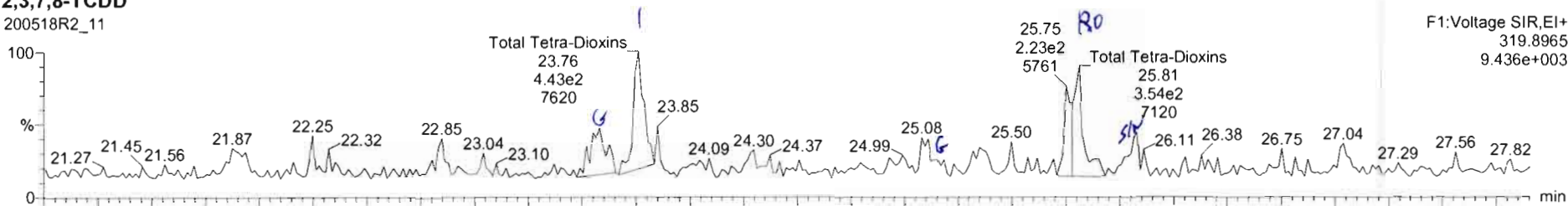
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by 05-20-2020

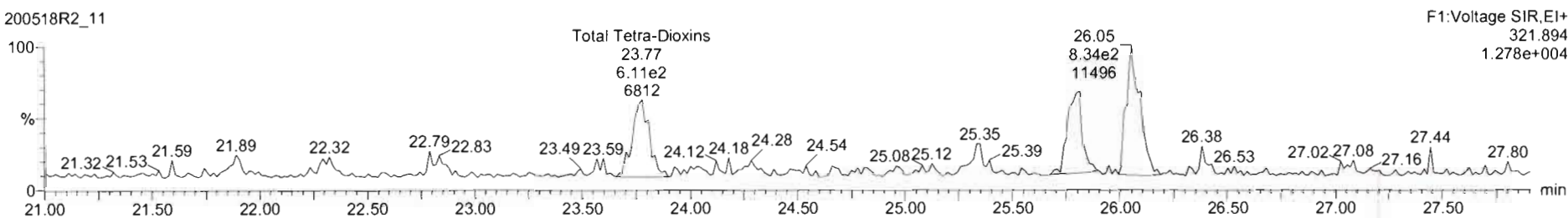
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2,3,7,8-TCDD

200518R2_11

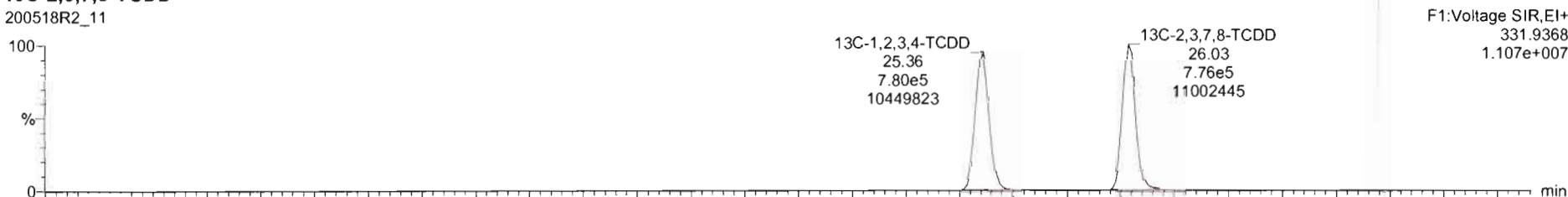


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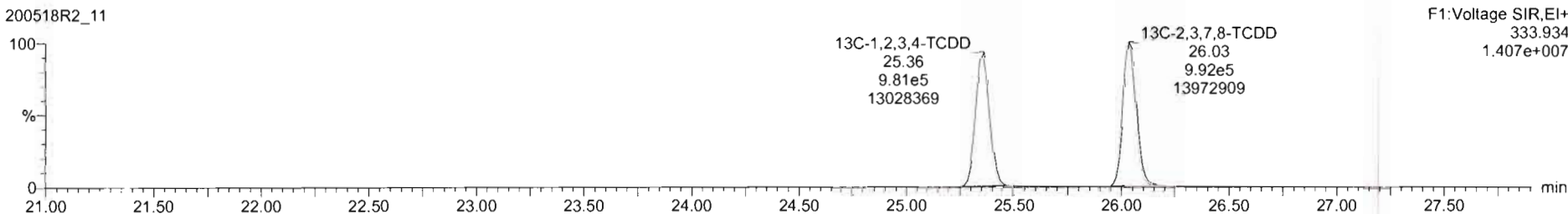


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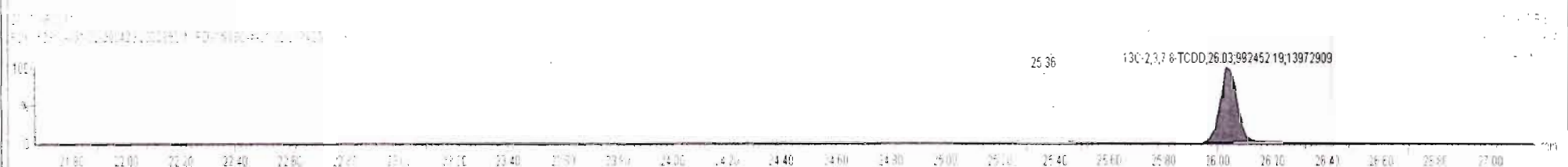
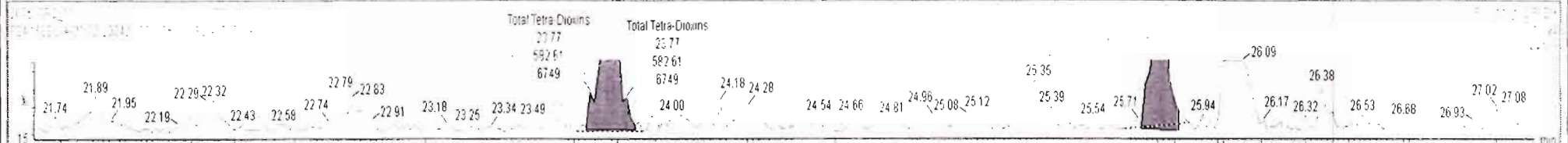
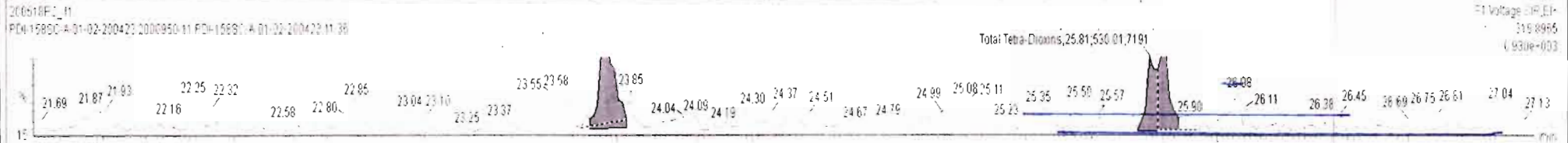


200518R2_11



SI	Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.127			0.125		0.0389	0.245
40	Total Penta-Dioxins				0.9425	10.127			0.107		0.0566	0.255
41	Total Hexa-Dioxins				0.9145	10.127			1.60		0.0448	1.81
42	Total Hepta-Dioxins				0.8979	10.127			8.19		0.0673	8.19

SI	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Tetra-Dioxins	23.76	4.805e2	5.826e2	0.82	NO	0.12532	0.12532
2	Total Tetra-Dioxins	25.81	5.300e2	5.760e2	0.92	YES	0.12016	0.00000



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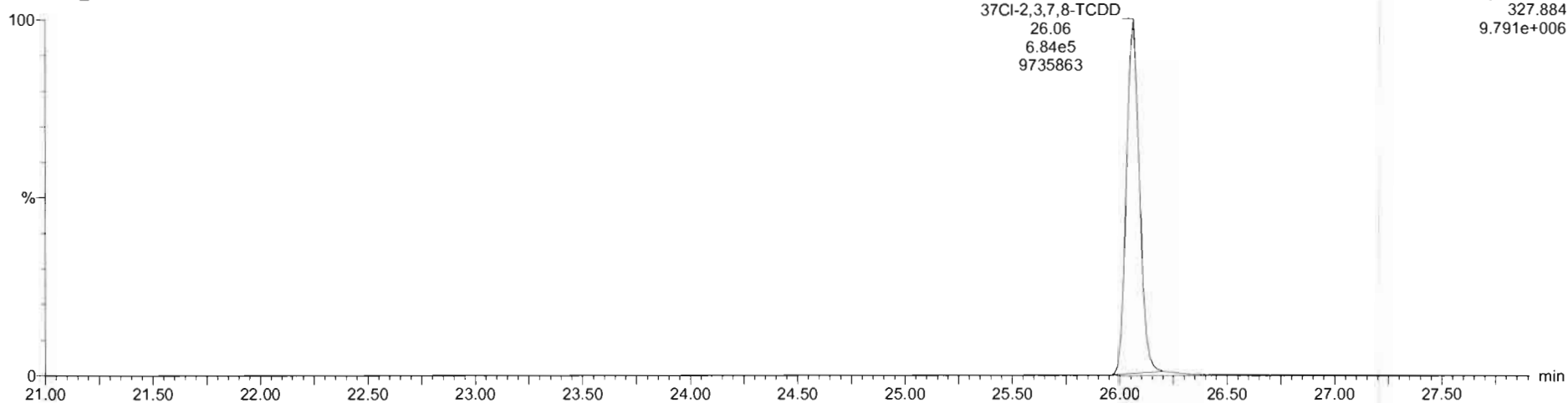
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Name: 200518R2_11, Date: 18-May-2020, Time: 21:44:47, ID: 2000950-11 PDI-158SC-A-01-02-200423 11.36, Description: PDI-158SC-A-01-02-200423

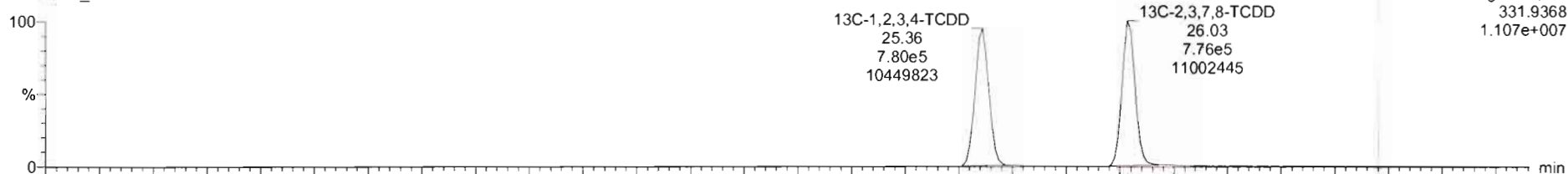
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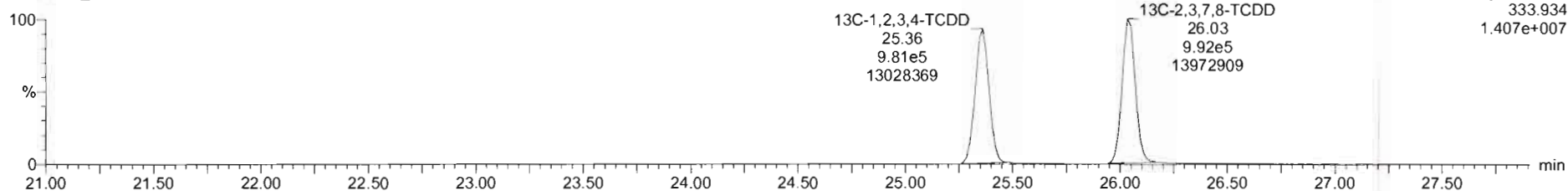


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200518R2_11



200518R2_11



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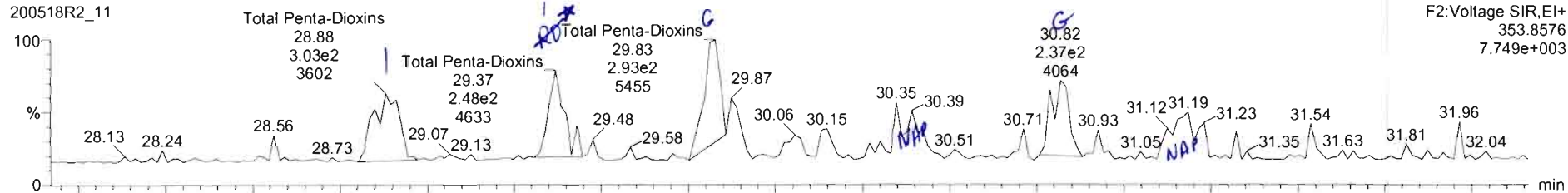
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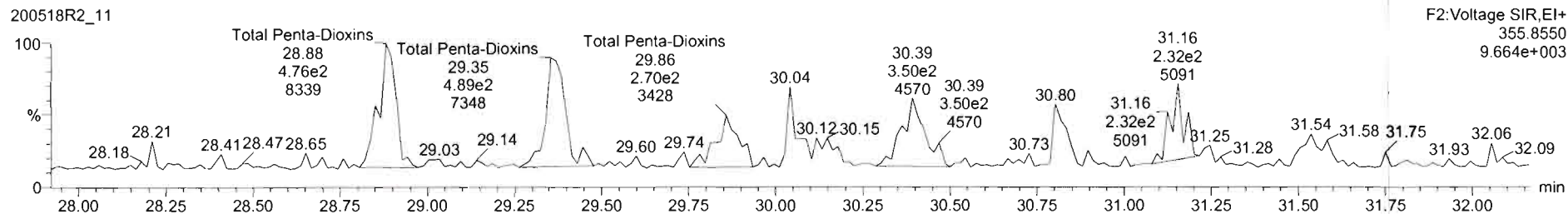
1,2,3,7,8-PeCDD

200518R2_11



F2: Voltage SIR, EI+
353.8576
7.749e+003

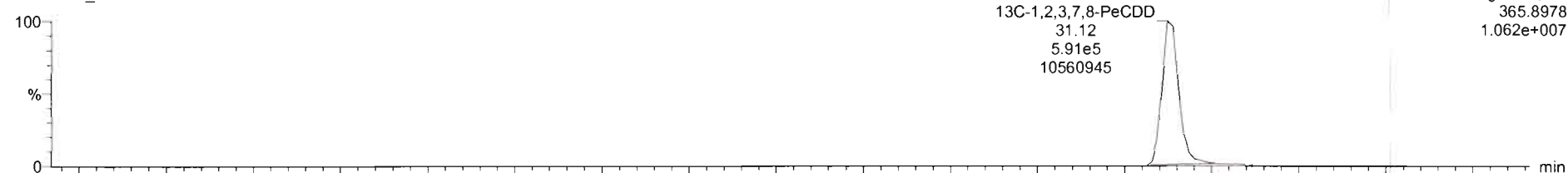
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F2: Voltage SIR, EI+
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9.664e+003

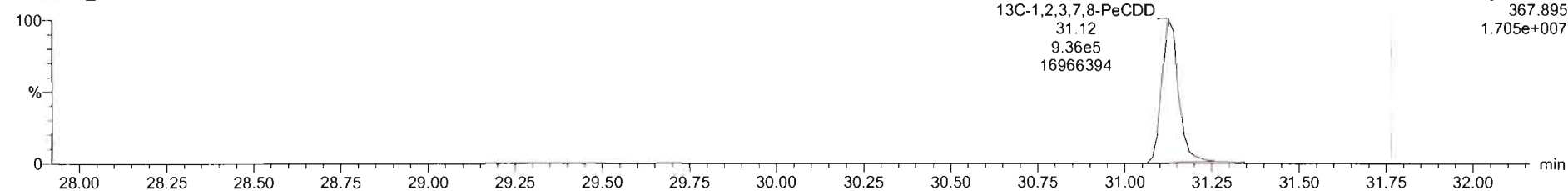
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200518R2_11



F2: Voltage SIR, EI+
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1.062e+007

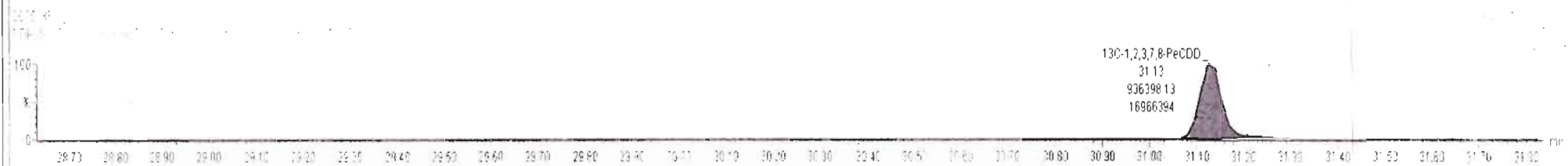
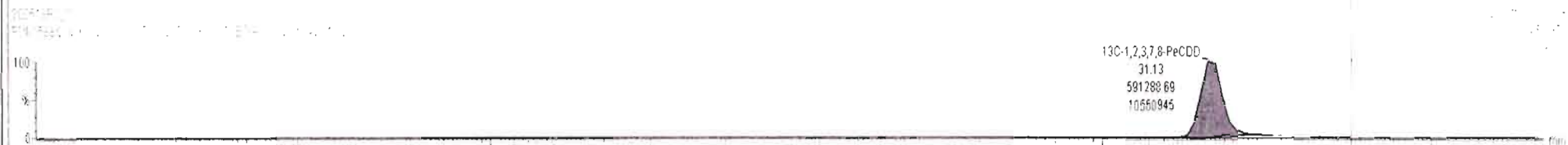
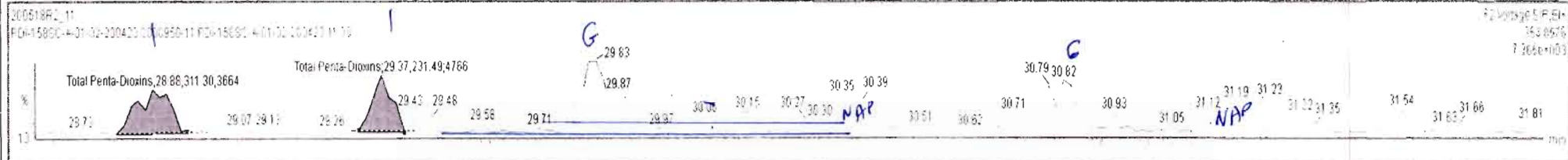
200518R2_11



F2: Voltage SIR, EI+
367.895
1.705e+007

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.127			0.125		0.0389	0.245
40 Total Penta-Dioxins				0.9425	10.127			0.197		0.0566	0.197
41 Total Hexa-Dioxins				0.9145	10.127			1.60		0.0448	1.81
42 Total Hepta-Dioxins				0.8979	10.127			8.19		0.0673	8.19

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Dioxins	28.88	3.113e2	4.732e2	0.66	NO	0.10761	0.10761
2 Total Penta-Dioxins	29.37	2.315e2	4.193e2	0.55	NO	0.089219	0.089219

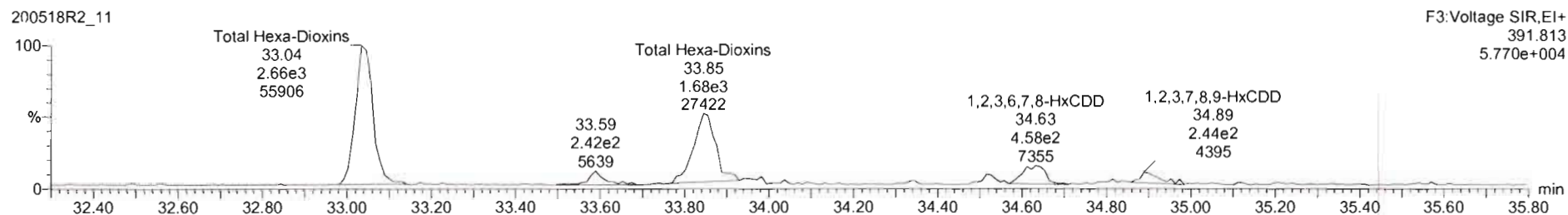
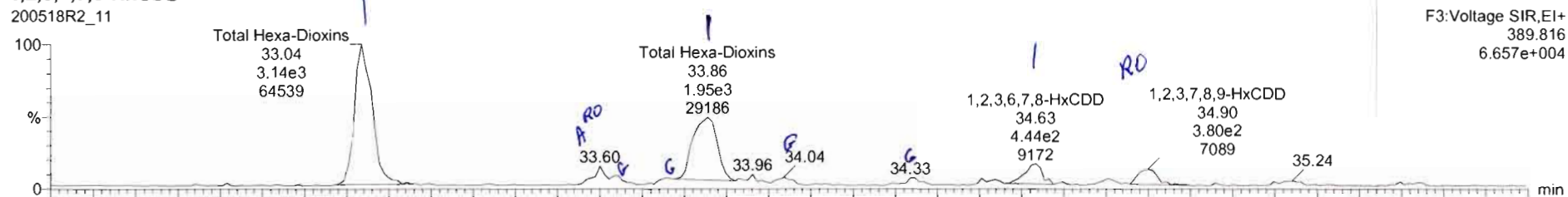


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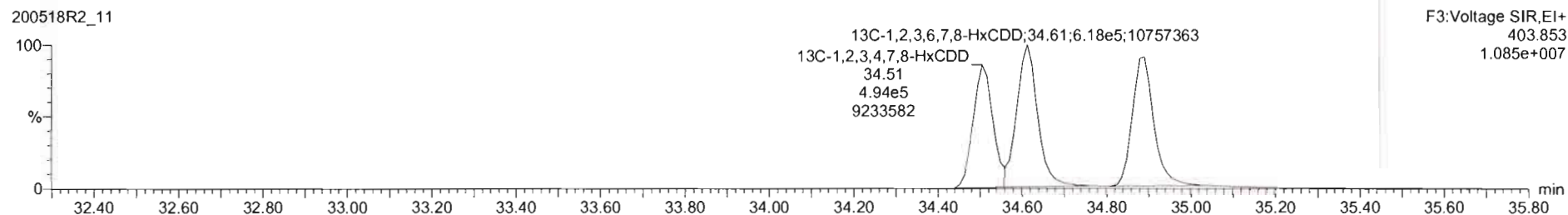
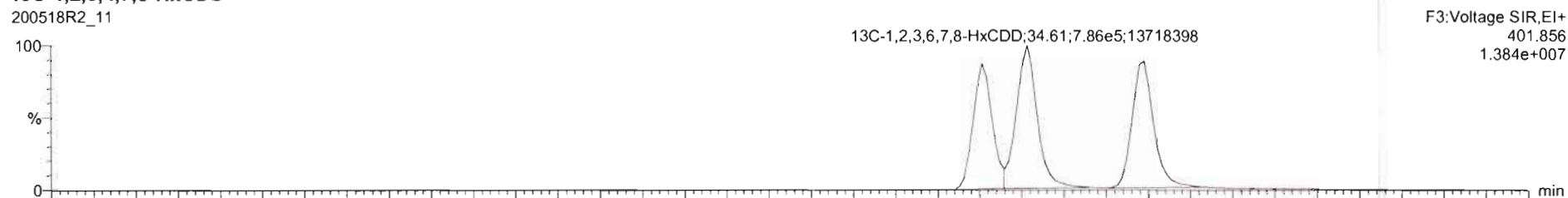
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Name: 200518R2_11, Date: 18-May-2020, Time: 21:44:47, ID: 2000950-11 PDI-158SC-A-01-02-200423 11.36, Description: PDI-158SC-A-01-02-200423

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

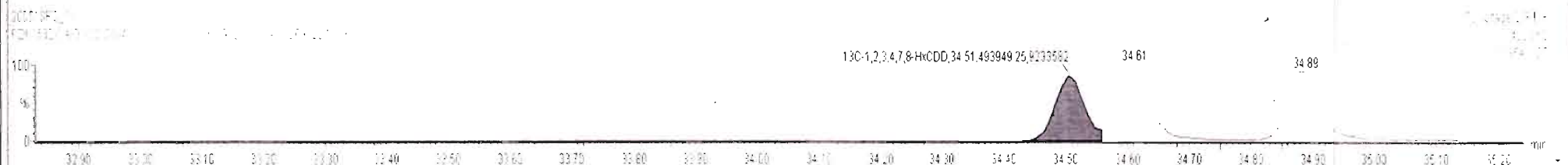
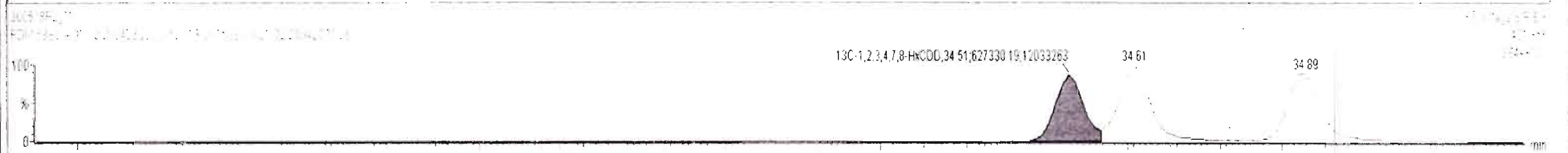
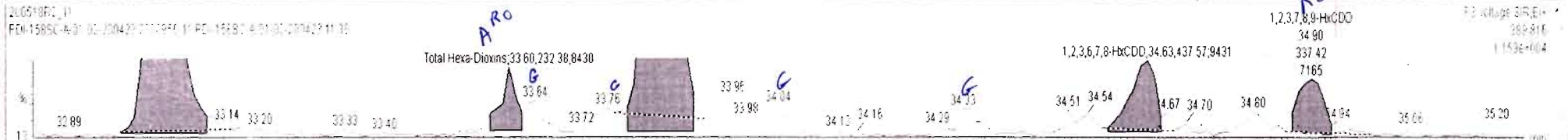


13C-1,2,3,4,7,8-HxCDD



Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.127			0.125		0.0389	0.245
40 Total Penta-Dioxins				0.9425	10.127			0.197		0.0565	0.197
41 Total Hexa-Dioxins				0.9145	10.127			1.76		0.0448	1.88
42 Total Hepta-Dioxins				0.8979	10.127			8.19		0.0673	8.19

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Dioxins	33.04	3.135e3	2.969e3	1.17	NO	0.90436	0.96436
2 Total Hexa-Dioxins	33.60	2.324e2	1.504e2	1.54	YES	0.057157	0.00000
3 Total Hexa-Dioxins	33.86	2.137e3	1.658e3	1.29	NO	0.64349	0.64349
4 1,2,3,6,7,8-HxCDD	34.63	4.376e2	4.147e2	1.06	NO	0.13109	0.13109
5 1,2,3,7,8,9-HxCDD	34.90	3.374e2	1.765e2	1.91	YES	0.065918	0.06900



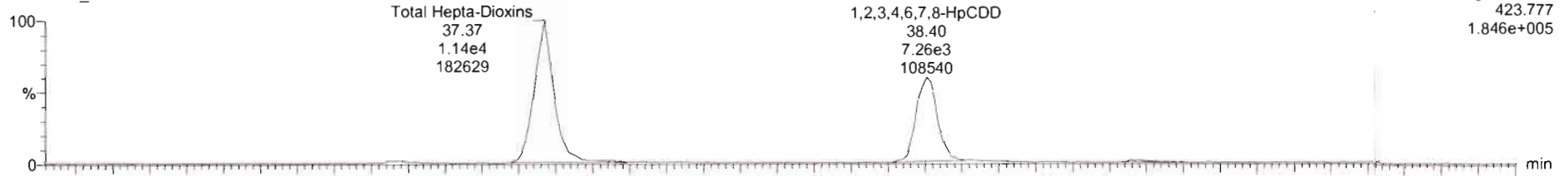
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

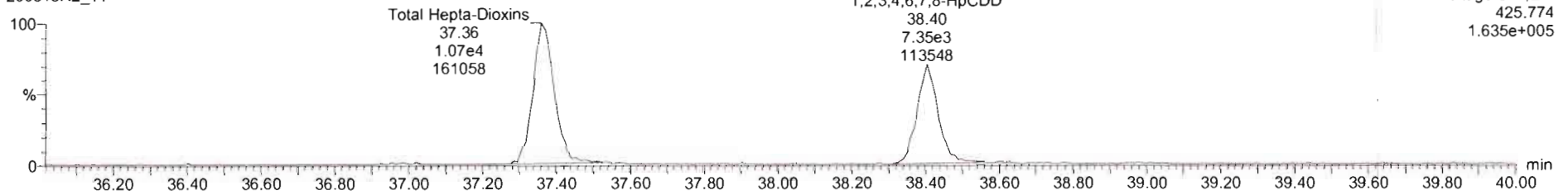
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1,2,3,4,6,7,8-HpCDD

200518R2_11

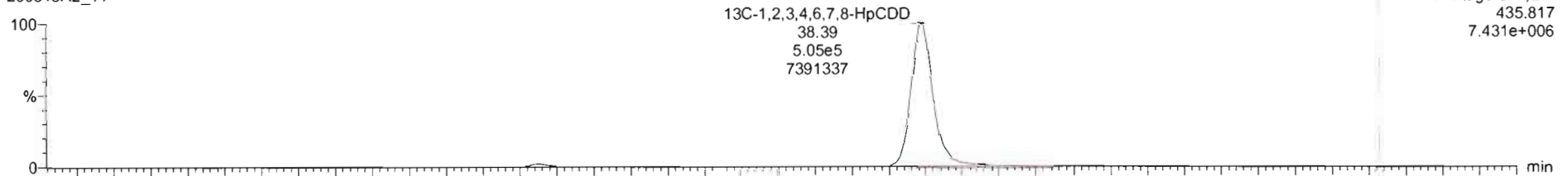


200518R2_11

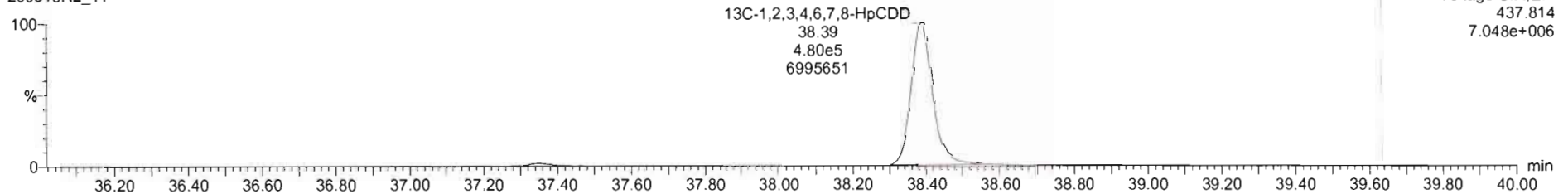


13C-1,2,3,4,6,7,8-HpCDD

200518R2_11



200518R2_11



200518R2_11 - 2000950-11 PDI-158SC-A-01-02-200423 11.36 - PDI-158SC-A-01-02-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.127			0.125	0.0369	0.245	
40 Total Penta-Dioxins				0.9425	10.127			0.197	0.0565	0.197	
41 Total Hexa-Dioxins				0.9145	10.127			1.76	0.0446	1.88	
42 Total Hepta-Dioxins				0.8978	10.127			8.13	0.0671	8.13	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.37	1.107e4	1.059e4	1.05	NO	4.8266	4.8268
2 1,2,3,4,6,7,8-HpCDD	38.40	7.496e3	7.340e3	1.02	NO	3.3065	3.3065



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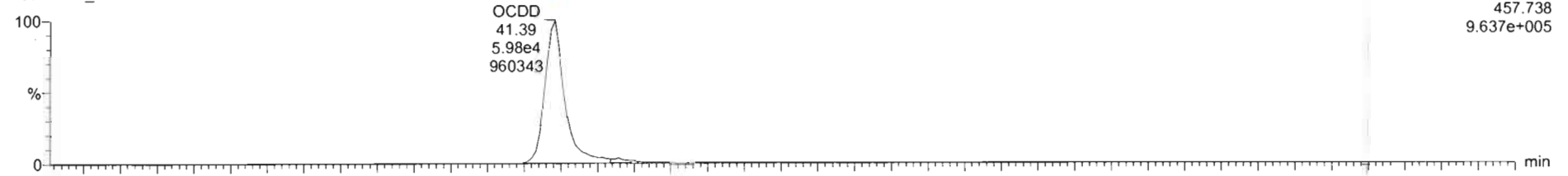
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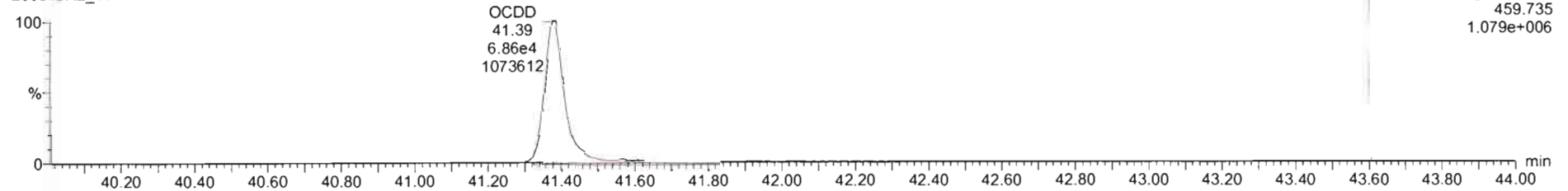
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OCDD

200518R2_11

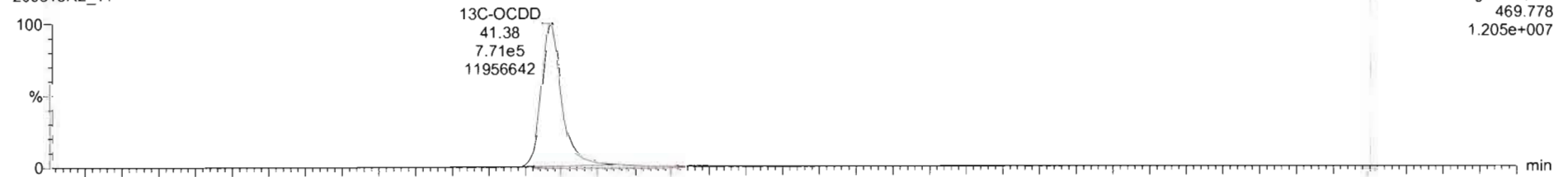


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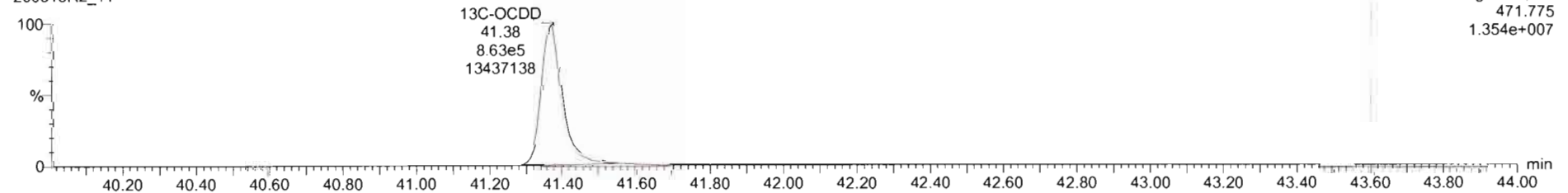


13C-OCDD

200518R2_11



200518R2_11



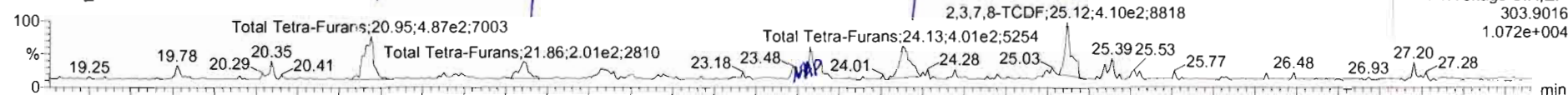
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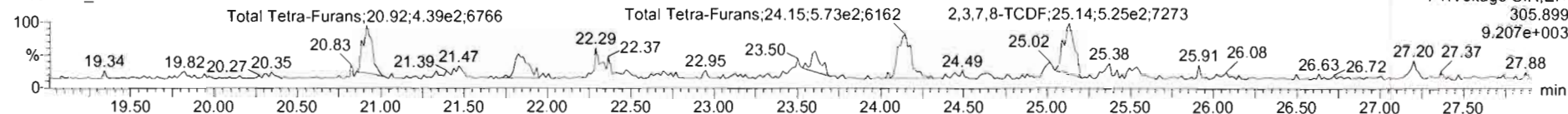
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2,3,7,8-TCDF

200518R2_11

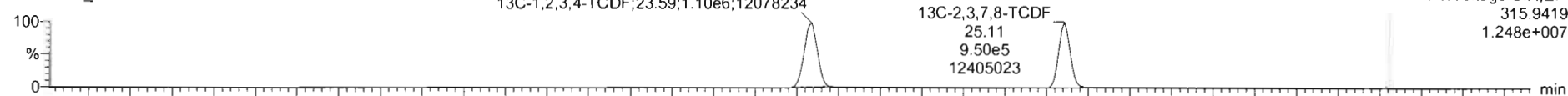


200518R2_11

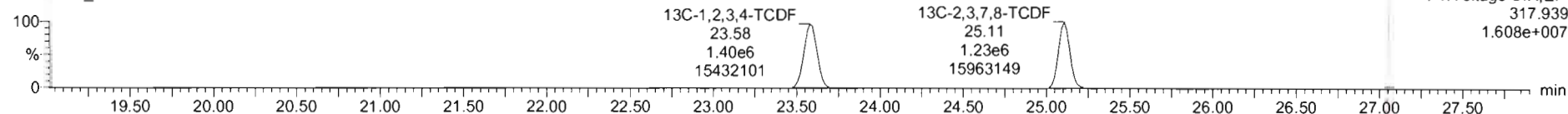


13C-2,3,7,8-TCDF

200518R2_11

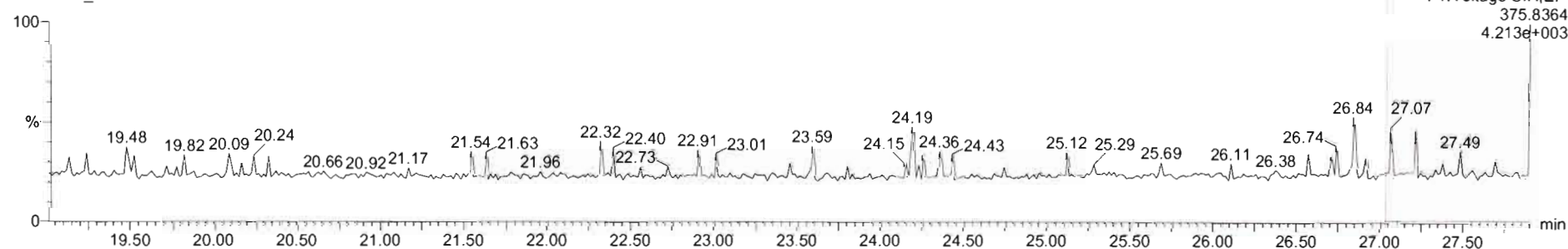


200518R2_11



DPE1

200518R2_11

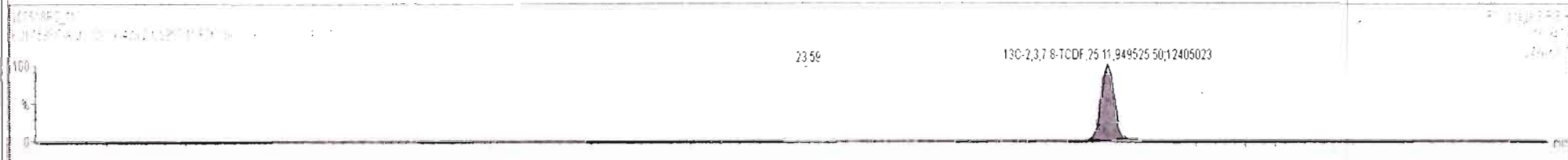
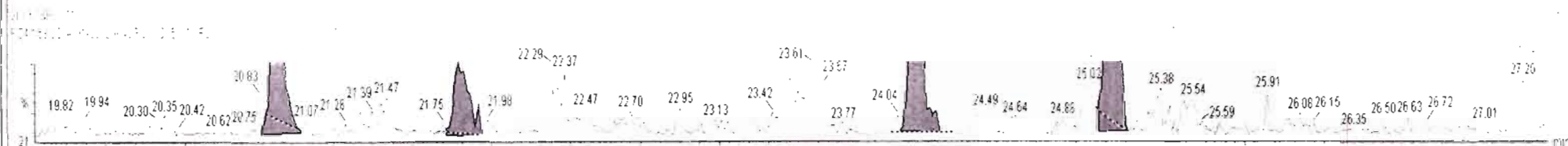
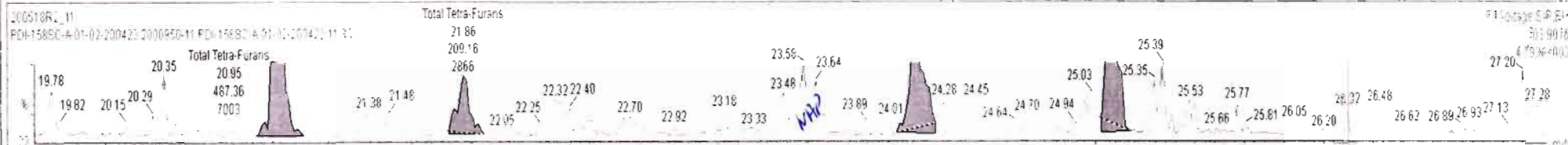




200518R2_11 - 2000950-11 PDI-158SC-A-01-02-200423 11 36 - PDI-158SC-A-01-02-200423

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.127			0.296		0.0459	0.416
44 1st Func. Penta-Furans				0.9102	10.127			0.260		0.00999	0.290
45 Total Penta-Furans				0.9102	10.127			0.606		0.0145	0.423
46 Total Hexa-Furans				0.5217	10.127			0.972		0.0290	1.33

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Tetra-Furans	20.95	4.874e2	5.513e2	0.88	NO	0.11955	0.00000
2 Total Tetra-Furans	21.86	2.052e2	3.179e2	0.66	NO	0.060655	0.060655
3 Total Tetra-Furans	24.13	4.489e2	5.377e2	0.83	NO	0.11357	0.11357
4 2,3,7,8-TCDF	25.12	4.645e2	5.974e2	0.78	NO	0.12224	0.12224



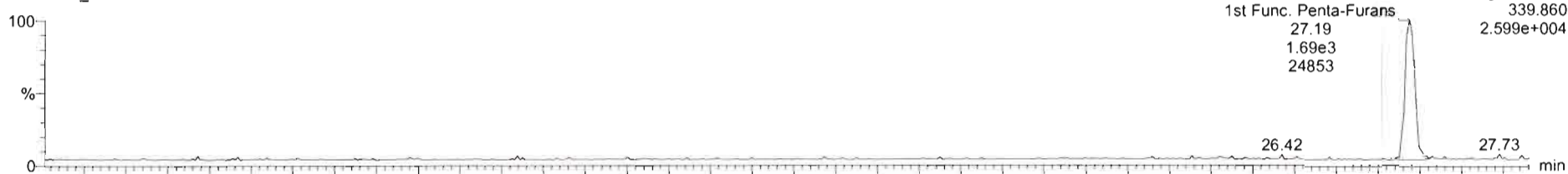
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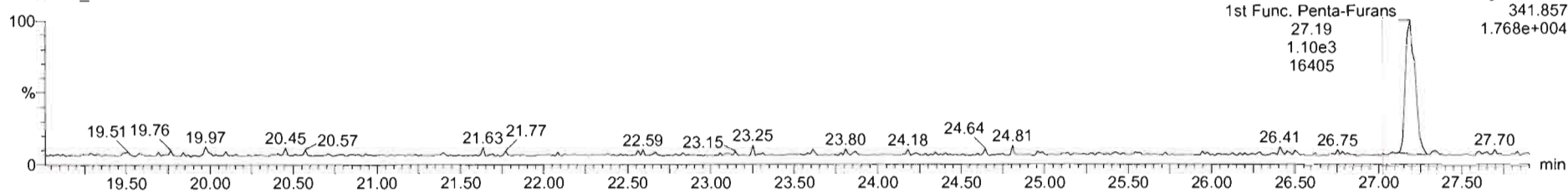
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1st Func. Penta-Furans

200518R2_11

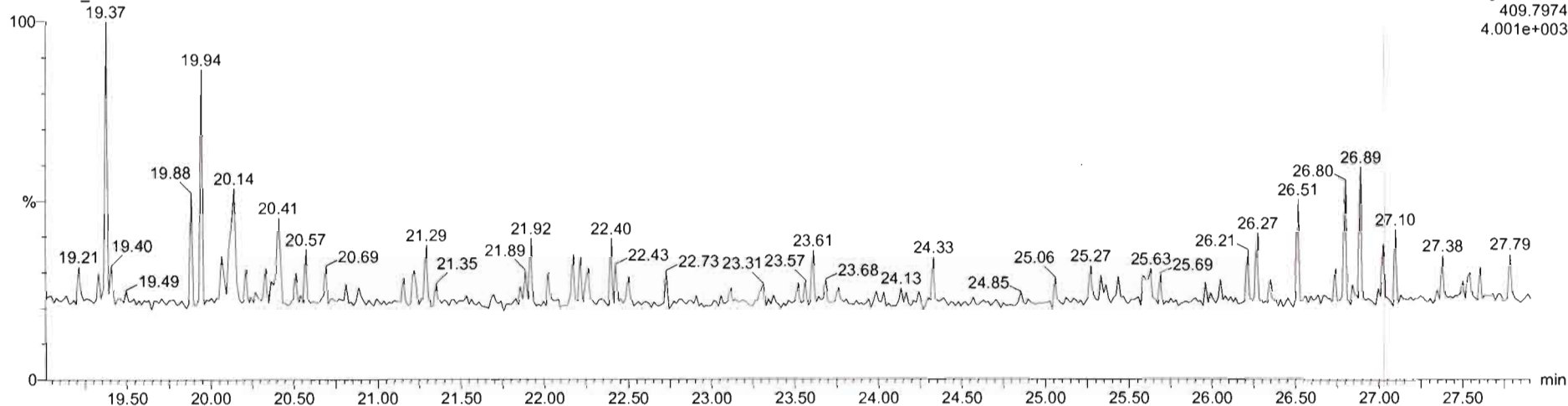


200518R2_11



DPE6

200518R2_11

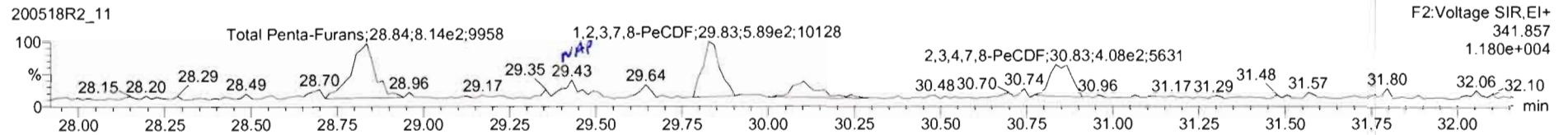
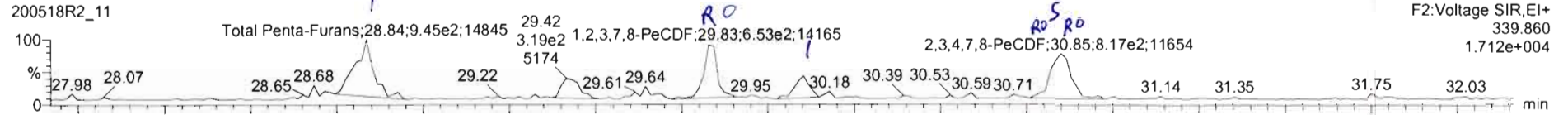


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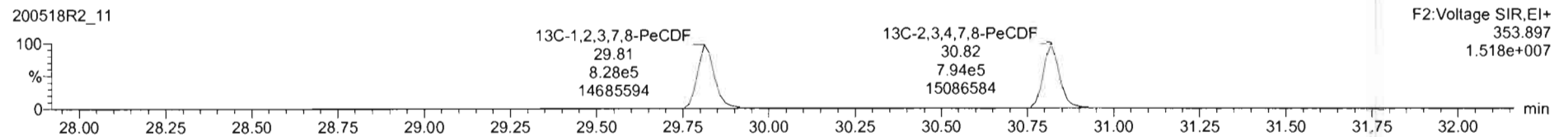
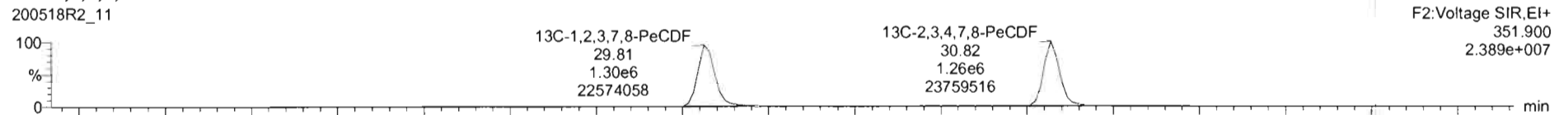
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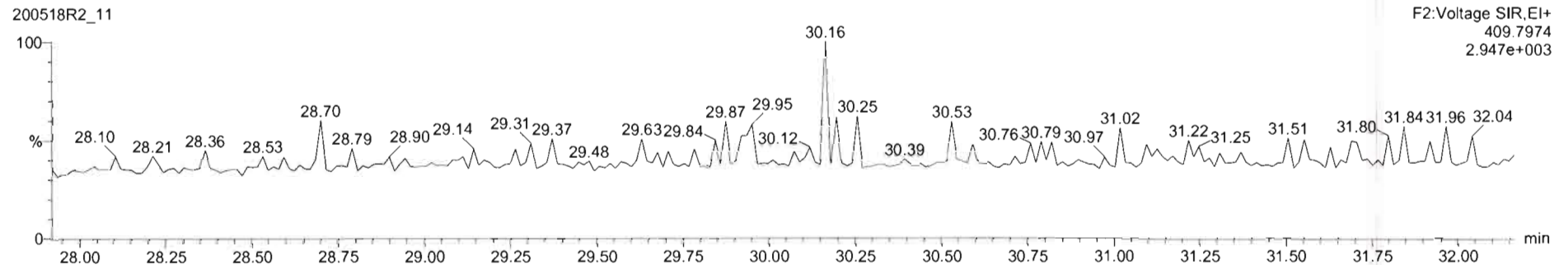
1,2,3,7,8-PeCDF



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

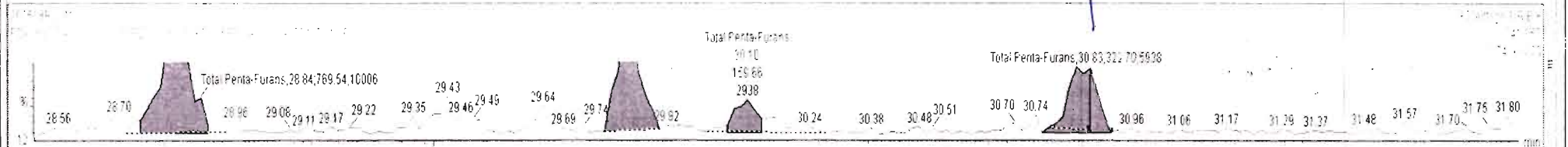
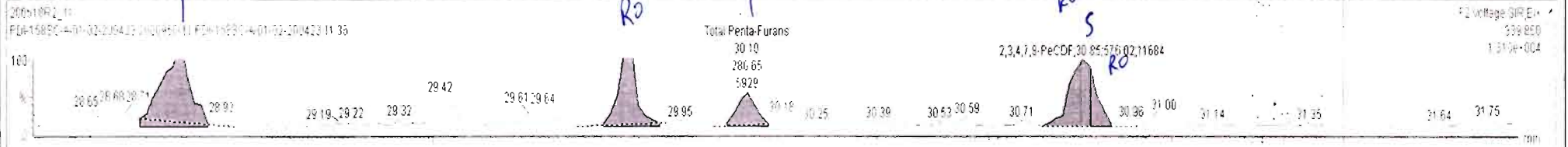


DPE2



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.127			0.415	0.0459	0.416	
44 1st Func. Penta-Furans				0.9102	10.127			0.290	0.03999	0.290	
45 Total Penta-Furans				0.9102	10.127			0.234	0.0270	0.415	
46 Total Hexa-Furans				0.9217	10.127			0.972	0.0290	1.33	

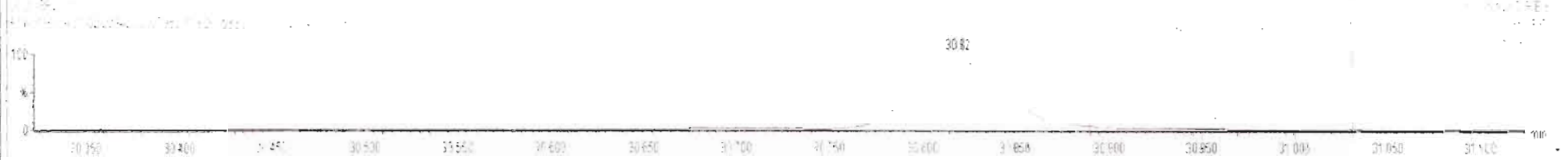
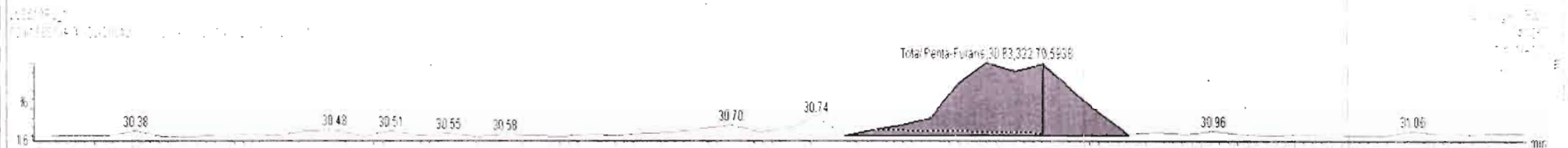
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.84	1.047e3	7.695e2	1.36	NO	0.18855	0.18855
2 1,2,3,7,8-PeCDF	29.83	6.689e2	5.824e2	1.15	YES	0.11225	0.00000
3 Total Penta-Furans	30.10	2.807e2	1.597e2	1.76	NO	0.045696	0.045696
4 2,3,4,7,8-PeCDF	30.85	5.760e2	1.281e2	4.50	YES	0.032534	0.00000
5 Total Penta-Furans	30.87	2.119e2	3.227e2	0.66	YES	0.036161	0.00000



200518R2_11 - 2000950-11 PDI-158SC-A-01-02-200423 11 36 - PDI-158SC-A-01-02-200423

Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.127			0.416	0.0459	0.416	
44 1st Func. Penta-Furans				0.9102	10.127			0.290	0.00999	0.290	
45 Total Penta-Furans				0.9102	10.127			0.234	0.0270	0.415	
46 Total Hexa-Furans				0.9217	10.127			0.972	0.0290	1.33	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Furans	28.84	1.047e3	7.696e2	1.36	NO	0.18655	0.16855
2 1,2,3,7,8-PeCDF	29.83	6.659e2	5.824e2	1.15	YES	0.11225	0.06000
3 Total Penta-Furans	30.10	2.807e2	1.597e2	1.76	NO	0.045696	0.045696
4 2,3,4,7,8-PeCDF	30.85	5.760e2	1.281e2	4.50	YES	0.032534	0.00000
5 Total Penta-Furans	30.87	2.118e2	3.227e2	0.66	YES	0.008181	0.00000

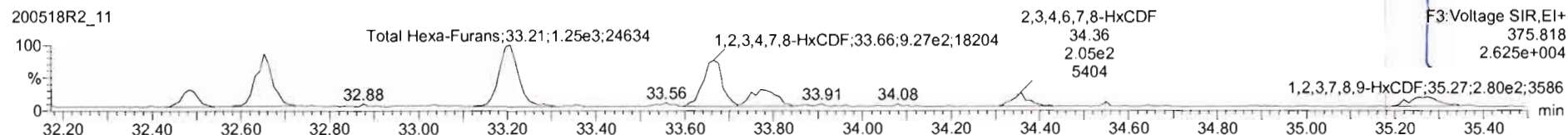
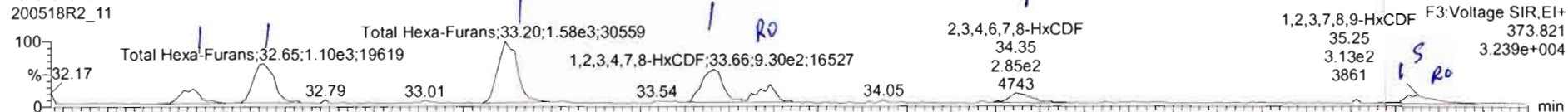


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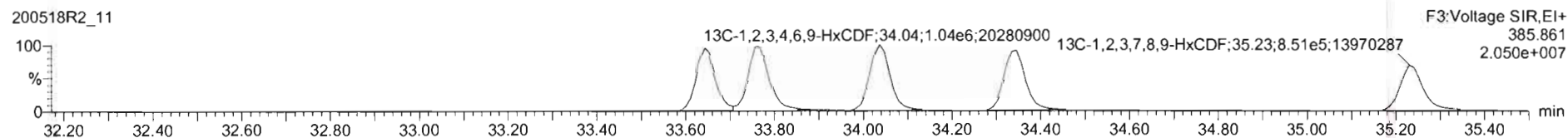
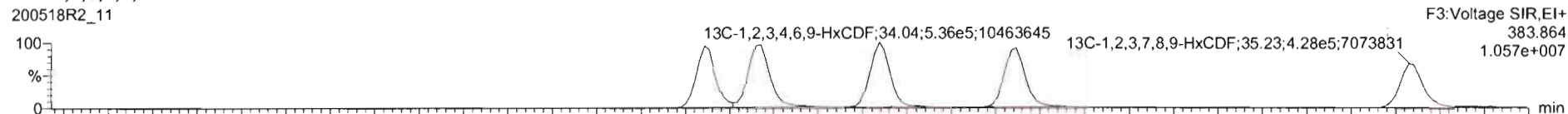
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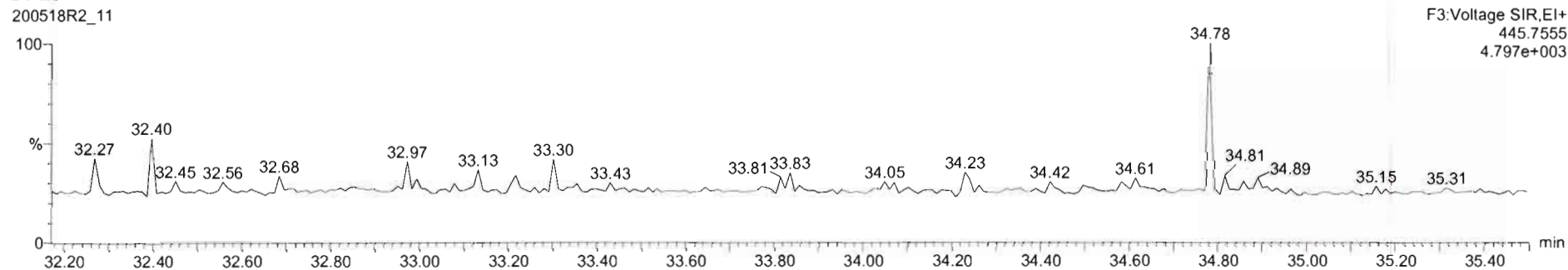
1,2,3,4,7,8-HxCDF



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

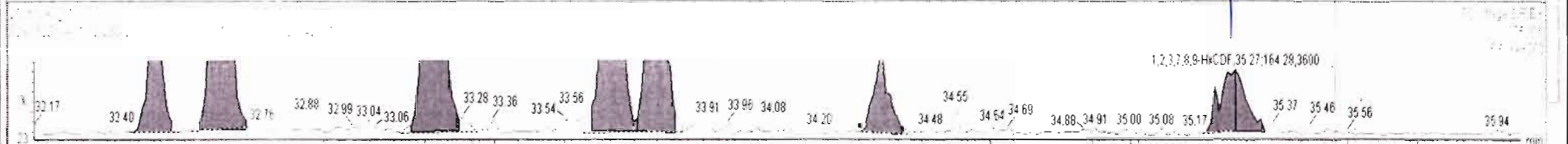
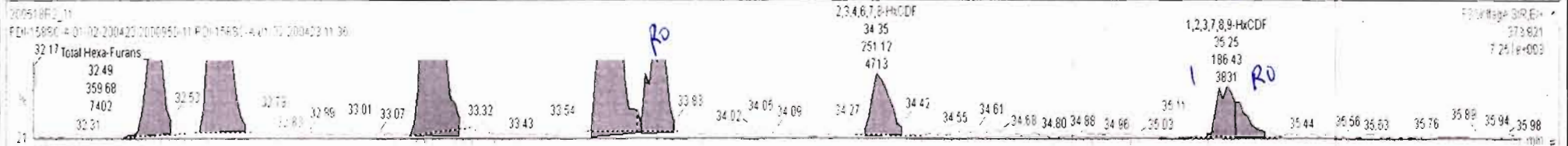


DPE3



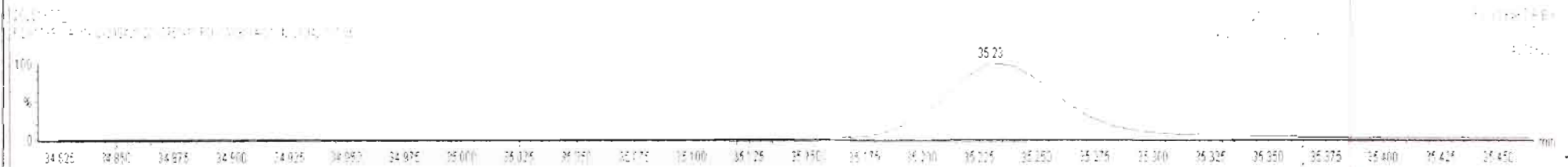
Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMFC
45 Total Penta-Furans				0.9102	10.127			0.234	0.0270	0.415	
46 Total Hexa-Furans				0.9217	10.127			1.20	0.0290	1.33	
47 Total Hepta-Furans				0.8712	10.127			2.02	0.0310	2.62	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMFC	Conc.
1 Total Hexa-Furans	32.49	3.597e2	2.820e2	1.28	NO	0.092671	0.092671
2 Total Hexa-Furans	32.65	1.081e3	9.146e2	1.18	NO	0.28821	0.28821
3 Total Hexa-Furans	33.20	1.603e3	1.211e3	1.32	NO	0.40635	0.40635
4 1,2,3,4,7,8-HxCDF	33.66	9.754e2	9.121e2	1.07	NO	0.28888	0.28888
5 1,2,3,6,7,8-HxCDF	33.79	4.001e2	4.227e2	0.95	YES	0.098294	0.00000
6 2,3,4,6,7,8-HxCDF	34.35	2.511e2	2.029e2	1.24	NO	0.063743	0.063743
7 1,2,3,7,8,9-HxCDF	35.25	1.864e2	1.643e2	1.13	NO	0.062652	0.062652
8 Total Hexa-Furans	35.27	1.035e2	1.142e2	0.91	YES	0.027004	0.00000



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.127			0.034		0.0220	0.415
46 Total Hexa-Furans				0.9217	10.127			0.929		0.0290	1.31
47 Total Hepta-Furans				0.8712	10.127			2.02		0.0310	2.02
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hexa-Furans	32.49	3.914e2	2.862e2	1.37	NO	0.097859	0.097859
2 Total Hexa-Furans	32.65	1.101e3	9.147e2	1.20	NO	0.29106	0.29106
3 Total Hexa-Furans	33.19	1.579e3	1.248e3	1.26	NO	0.40825	0.40825
4 1,2,3,4,7,8-HxCDF	33.86	9.297e2	9.272e2	1.00	YES	0.25704	0.00000
5 1,2,3,6,7,8-HxCDF	33.79	4.127e2	4.437e2	0.93	YES	0.10138	0.00000
6 2,3,4,6,7,8-HxCDF	34.35	2.847e2	2.046e2	1.39	NO	0.068784	0.068784
7 1,2,3,7,8,9-HxCDF	35.25	1.864e2	1.643e2	1.13	NO	0.062652	0.062652
8 Total Hexa-Furans	35.27	1.035e2	1.142e2	0.91	YES	0.027004	0.00000



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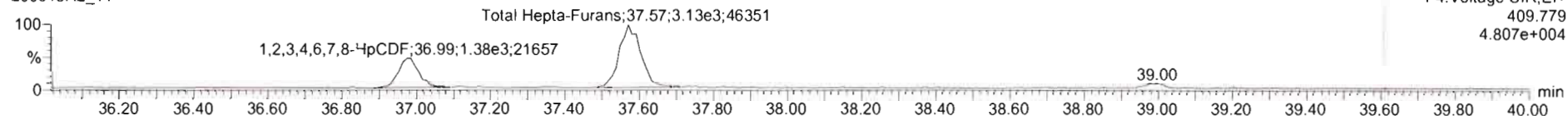
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1,2,3,4,6,7,8-HpCDF

200518R2_11

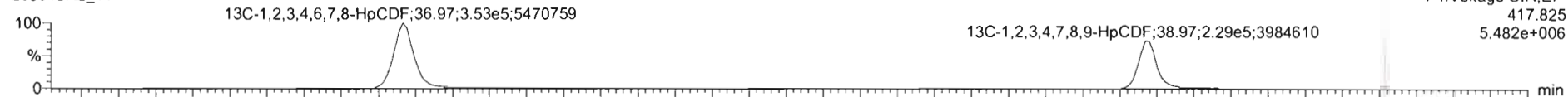


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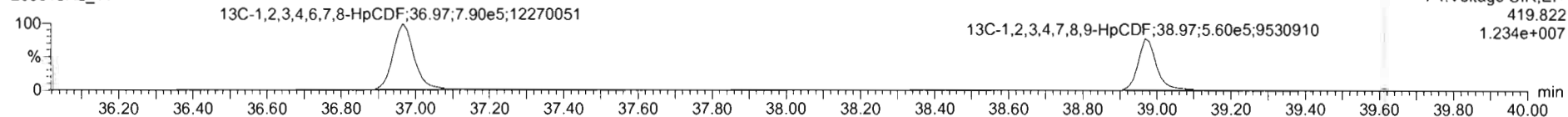


13C-1,2,3,4,6,7,8-HpCDF

200518R2_11

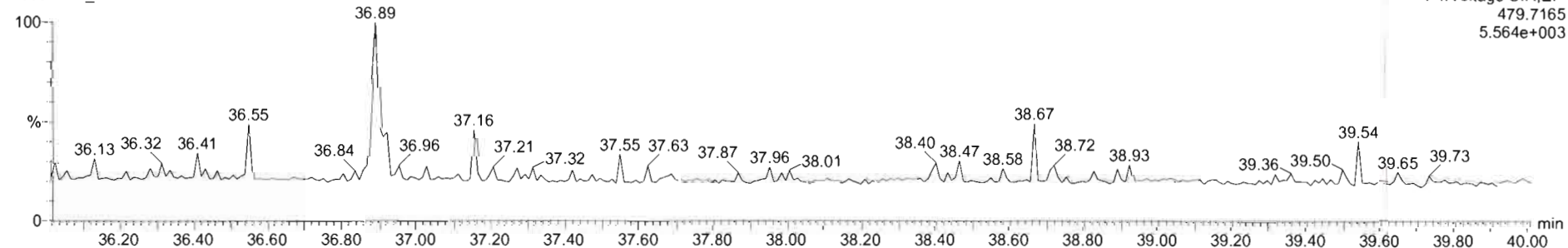


200518R2_11



DPE4

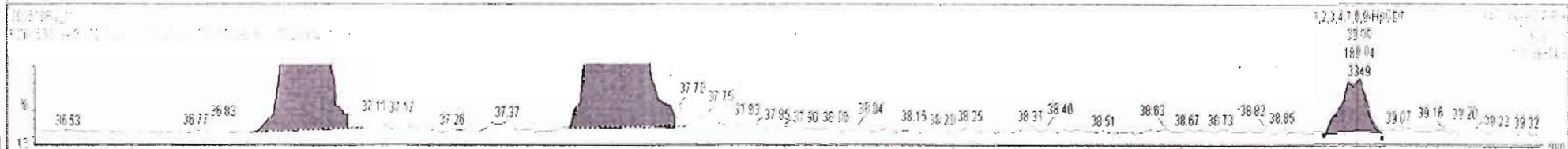
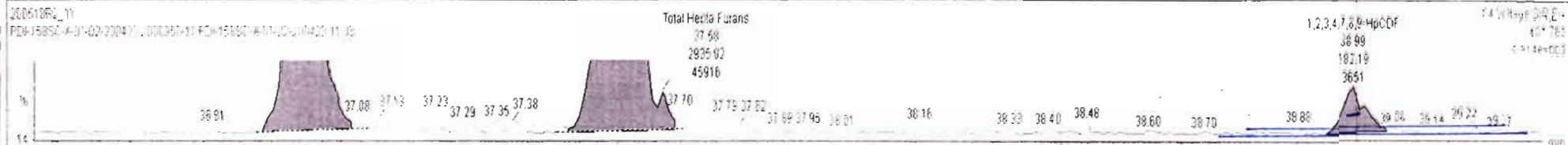
200518R2_11



200518R2_11 - 2000950-11 PDI-158SC-A-01-02-200423 11.36 - PDI-158SC-A-01-02-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9192	10.127			0.234	0.0270	0.415	
46 Total Hexa-Furans				0.9217	10.127			1.20	0.0290	1.33	
47 Total Hepta-Furans				0.8712	10.127			2.10	0.0306	2.10	
48 PFK:											

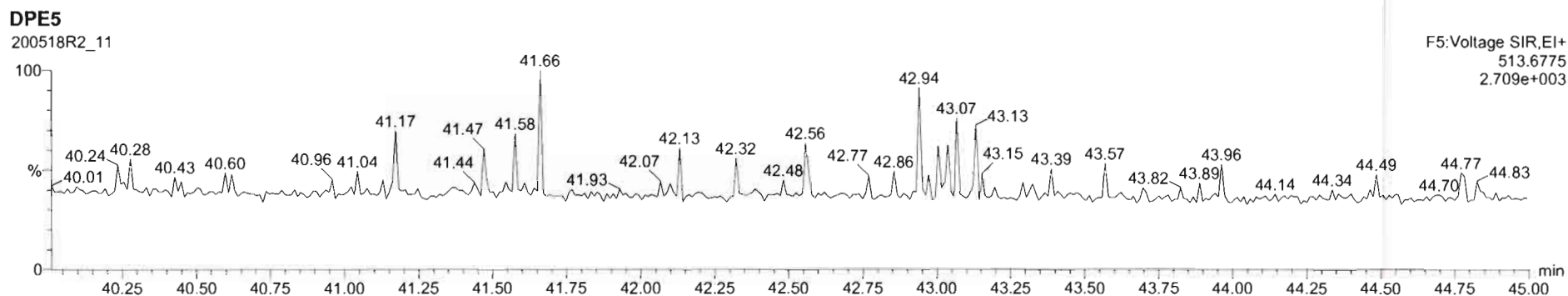
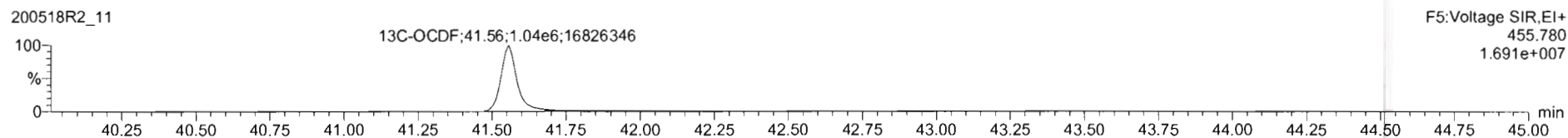
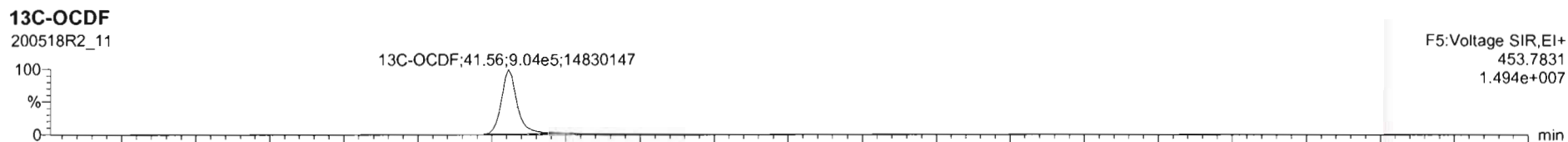
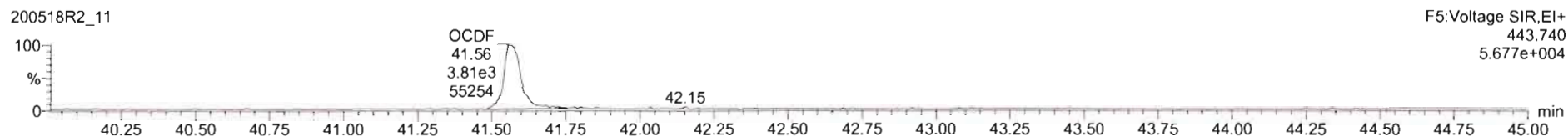
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.99	1.599e3	1.377e3	1.16	NO	0.56842	0.56842
2 Total Hepta-Furans	37.58	2.935e3	3.123e3	0.94	NO	1.4186	1.4186
3 1,2,3,4,7,8,9-HpCDF	38.99	1.822e2	1.890e2	0.96	NO	0.091804	0.091804



Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

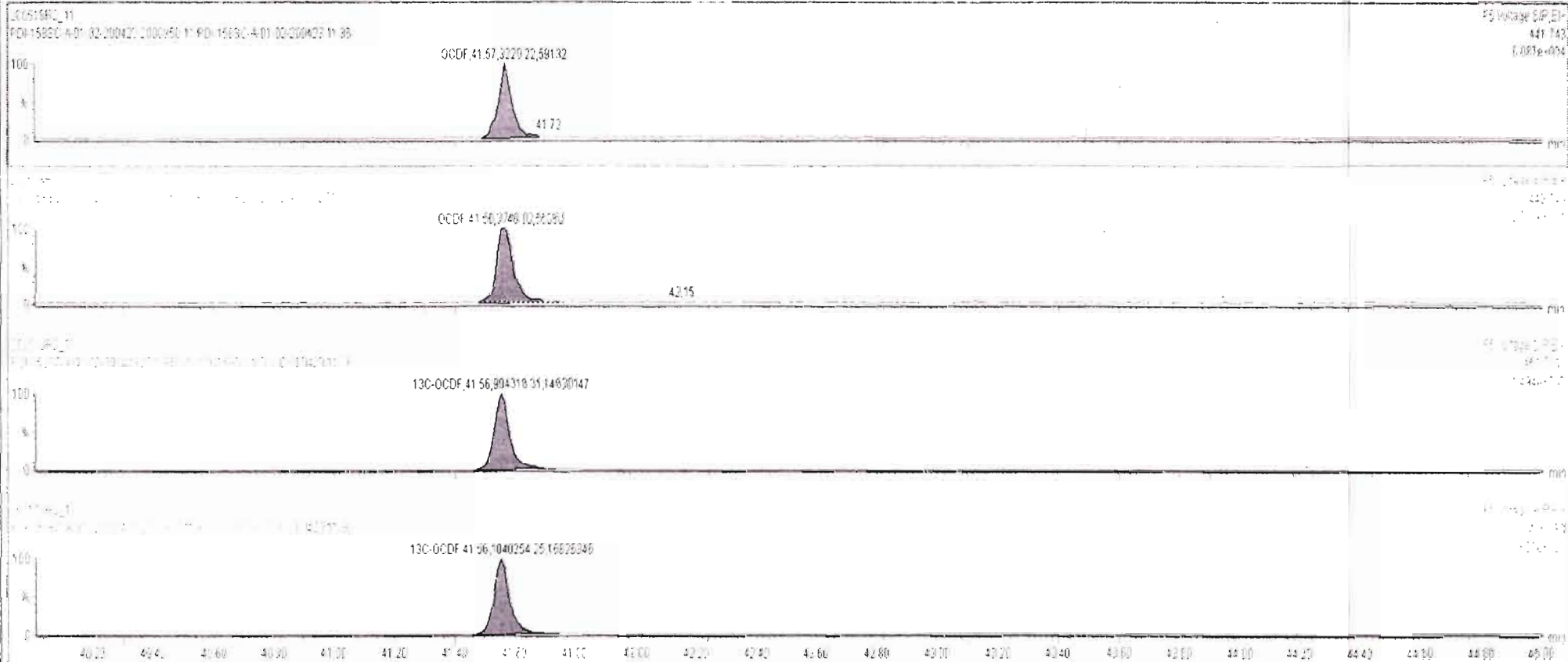
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200518R2_11 - 2000950-11 PDI-158SC-A-01-02-200423 11.36 - PDI-158SC-A-01-02-200423

Name	Resp	RA	nly	RRF	wtMol	RT	RRT	Conc.	%Rec	DL	EMPC
17 OCDF	6.97e3	0.86	NO	0.8021	10.127	41.57	1.000	1.76		0.0417	1.76
18 13C-2,3,7,8-TCDD	1.77e6	0.78	NO	1.1595	10.127	26.03	1.027	171	86.6	0.141	
19 13C-1,2,3,7,8-PeCDD	1.53e6	0.63	NO	0.8472	10.127	31.13	1.227	202	102	0.185	
20 13C-1,2,3,4,7,8-HxCDD	1.12e6	1.27	NO	0.7489	10.127	34.51	1.014	187	94.9	0.264	

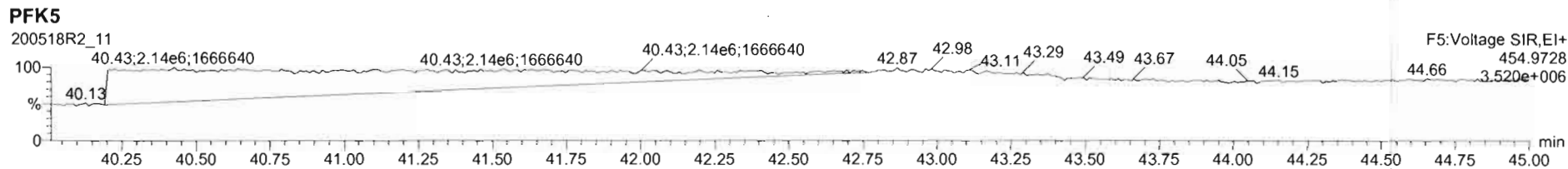
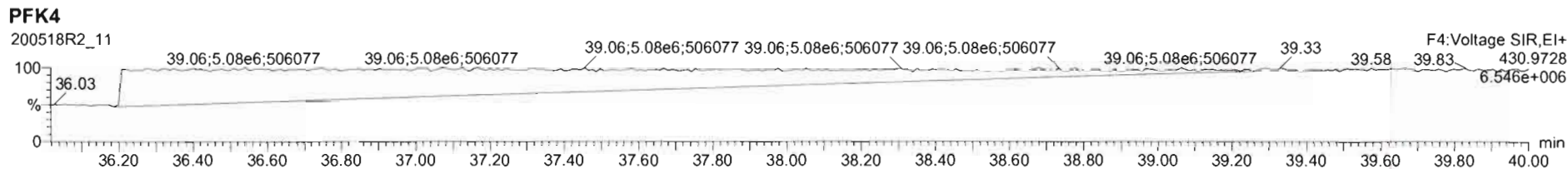
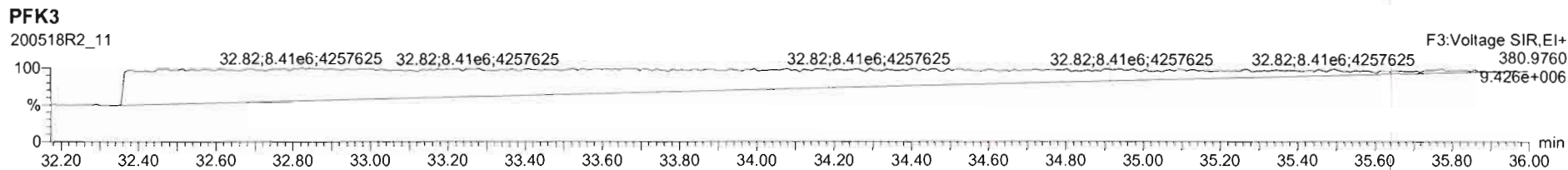
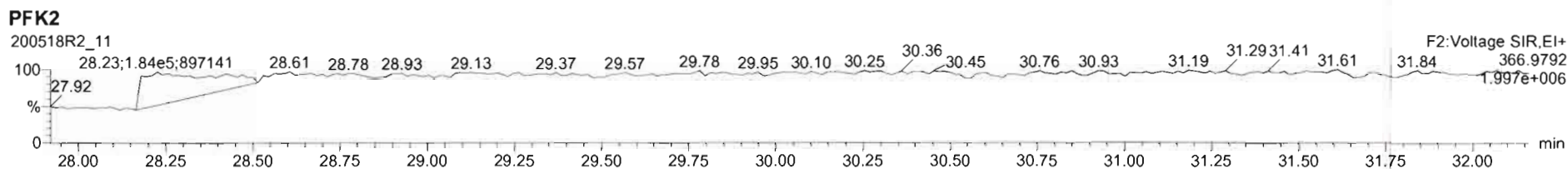
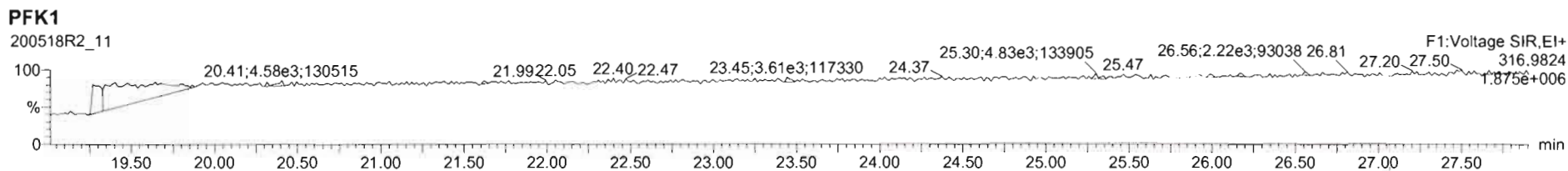
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
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Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_11, Date: 18-May-2020, Time: 21:44:47, ID: 2000950-11 PDI-158SC-A-01-02-200423 11.36, Description: PDI-158SC-A-01-02-200423



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-12.qld

Last Altered: Wednesday, May 20, 2020 14:21:54 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 14:35:22 Pacific Daylight Time

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Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423

#	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	0.947	10.141	26.066		1.001				0.0423	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.141	31.147		1.001				0.0375	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.141	34.515		1.000				0.0443	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.141	34.612		1.000				0.0446	
5	5 1,2,3,7,8,9-HxCDD	2.71e2	1.07	NO	0.915	10.141	34.899	34.90	1.000	1.000	0.044602		0.0512	0.0446
6	6 1,2,3,4,6,7,8-HpCDD	3.06e3	1.01	NO	0.898	10.141	38.404	38.40	1.000	1.000	0.67107		0.0423	0.671
7	7 OCDD	2.60e4	0.89	NO	0.933	10.141	41.375	41.39	1.000	1.000	6.4111		0.0662	6.41
8	8 2,3,7,8-TCDF	3.56e2	0.64	YES	0.787	10.141	25.147	25.14	1.001	1.001	0.053249		0.0294	0.0478
9	9 1,2,3,7,8-PeCDF	8.30e2	2.03	YES	0.910	10.141	29.834	29.83	1.001	1.000	0.089870		0.0188	0.0756
10	10 2,3,4,7,8-PeCDF			NO	0.966	10.141	30.850		1.001				0.0180	
11	11 1,2,3,4,7,8-HxCDF	7.38e2	1.24	NO	0.878	10.141	33.643	33.66	1.000	1.001	0.11515		0.0315	0.115
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.141	33.770		1.000				0.0304	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.141	34.380		1.001				0.0311	
14	14 1,2,3,7,8,9-HxCDF	3.53e2	1.22	NO	0.864	10.141	35.230	35.24	1.000	1.000	0.064466		0.0435	0.0645
15	15 1,2,3,4,6,7,8-HpCDF	5.84e2	1.12	NO	0.871	10.141	37.003	37.00	1.001	1.001	0.11736		0.0248	0.117
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.141	38.979		1.000				0.0269	
17	17 OCDF	8.84e2	0.86	NO	0.802	10.141	41.567	41.57	1.000	1.000	0.21399		0.0369	0.214
18	18 13C-2,3,7,8-TCDD	1.51e6	0.78	NO	1.16	10.141	26.031	26.03	1.026	1.027	162.48	82.4	0.144	
19	19 13C-1,2,3,7,8-PeCDD	1.49e6	0.63	NO	0.847	10.141	31.123	31.13	1.227	1.227	219.78	111	0.197	
20	20 13C-1,2,3,4,7,8-HxCDD	1.16e6	1.28	NO	0.750	10.141	34.517	34.51	1.014	1.014	202.11	102	0.289	
21	21 13C-1,2,3,6,7,8-HxCDD	1.39e6	1.29	NO	0.963	10.141	34.629	34.61	1.017	1.017	188.12	95.4	0.225	
22	22 13C-1,2,3,7,8,9-HxCDD	1.31e6	1.23	NO	0.838	10.141	34.898	34.89	1.025	1.025	203.74	103	0.259	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.00e6	1.04	NO	0.641	10.141	38.390	38.39	1.128	1.128	203.97	103	0.558	
24	24 13C-OCDD	1.71e6	0.86	NO	0.586	10.141	41.386	41.38	1.216	1.216	381.11	96.6	0.291	
25	25 13C-2,3,7,8-TCDF	1.68e6	0.76	NO	1.03	10.141	25.090	25.12	0.989	0.991	142.60	72.3	0.232	
26	26 13C-1,2,3,7,8-PeCDF	2.00e6	1.59	NO	0.845	10.141	29.812	29.81	1.176	1.176	208.25	106	0.379	
27	27 13C-2,3,4,7,8-PeCDF	1.97e6	1.58	NO	0.814	10.141	30.803	30.82	1.215	1.215	212.60	108	0.393	
28	28 13C-1,2,3,4,7,8-HxCDF	1.44e6	0.51	NO	1.00	10.141	33.656	33.64	0.989	0.988	186.80	94.7	0.338	
29	29 13C-1,2,3,6,7,8-HxCDF	1.67e6	0.52	NO	1.14	10.141	33.778	33.76	0.992	0.992	191.86	97.3	0.299	
30	30 13C-2,3,4,6,7,8-HxCDF	1.51e6	0.51	NO	1.02	10.141	34.347	34.35	1.009	1.009	192.17	97.4	0.332	
31	31 13C-1,2,3,7,8,9-HxCDF	1.25e6	0.51	NO	0.845	10.141	35.239	35.23	1.035	1.035	193.04	97.9	0.402	
32	32 13C-1,2,3,4,6,7,8-HpCDF	1.13e6	0.43	NO	0.771	10.141	36.971	36.97	1.086	1.086	190.62	96.7	0.395	
33	33 13C-1,2,3,4,7,8,9-HpCDF	7.93e5	0.44	NO	0.482	10.141	38.983	38.98	1.145	1.145	214.54	109	0.631	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-12.qld

Last Altered: Wednesday, May 20, 2020 14:21:54 Pacific Daylight Time

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Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
34	34 13C-OCDF	2.03e6	0.87	NO	0.669	10.141	41.556	41.57	1.221	1.221	396.71	101	0.281	
35	35 37Cl-2,3,7,8-TCDD	5.81e5			1.10	10.141	26.061	26.07	1.028	1.028	66.124	83.8	0.0567	
36	36 13C-1,2,3,4-TCDD	1.58e6	0.78	NO	1.00	10.141	25.350	25.36	1.000	1.000	197.22	100	0.167	
37	37 13C-1,2,3,4-TCDF	2.24e6	0.78	NO	1.00	10.141	23.560	23.59	1.000	1.000	197.22	100	0.240	
38	38 13C-1,2,3,4,6,9-HxCDF	1.51e6	0.51	NO	1.00	10.141	34.000	34.04	1.000	1.000	197.22	100	0.340	
39	39 Total Tetra-Dioxins				0.947	10.141	24.620		0.000		0.052411		0.0423	0.180
40	40 Total Penta-Dioxins				0.942	10.141	29.960		0.000		0.079704		0.0375	0.0797
41	41 Total Hexa-Dioxins				0.915	10.141	33.635		0.000		0.80050		0.0490	0.800
42	42 Total Hepta-Dioxins				0.898	10.141	37.640		0.000		1.9668		0.0423	1.97
43	43 Total Tetra-Furans				0.787	10.141	23.610		0.000		0.00000		0.0125	0.0478
44	44 1st Func. Penta-Furans				0.910	10.141	27.090		0.000				0.00479	
45	45 Total Penta-Furans				0.910	10.141	29.275		0.000		0.00000		0.00737	0.0756
46	46 Total Hexa-Furans				0.922	10.141	33.555		0.000		0.21634		0.0322	0.269
47	47 Total Hepta-Furans				0.871	10.141	37.835		0.000		0.23091		0.0275	0.231

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-12.qld

Last Altered: Wednesday, May 20, 2020 14:21:54 Pacific Daylight Time
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Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
 Calibration: U:\VG12.PRO\CurveDB\1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.77	5.538e3	7.766e3	4.801e2	5.204e2	0.92	YES	0.000e0	0.00000	0.12717	0.0423
2	Total Tetra-Dioxins	25.33	3.529e3	2.766e3	1.733e2	2.063e2	0.84	NO	3.796e2	0.052411	0.052411	0.0423

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.37	4.768e3	7.471e3	2.232e2	3.444e2	0.65	NO	5.676e2	0.079704	0.079704	0.0375

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.04	3.443e4	3.143e4	1.806e3	1.438e3	1.26	NO	3.244e3	0.54402	0.54402	0.0490
2	Total Hexa-Dioxins	33.82	8.936e3	8.353e3	6.662e2	5.972e2	1.12	NO	1.263e3	0.21188	0.21188	0.0490
3	1,2,3,7,8,9-HxCDD	34.90	3.146e3	2.348e3	1.400e2	1.306e2	1.07	NO	2.706e2	0.044602	0.044602	0.0512

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.37	3.594e4	4.447e4	2.868e3	3.047e3	0.94	NO	5.915e3	1.2957	1.2957	0.0423
2	1,2,3,4,6,7,8-HpCDD	38.40	1.993e4	2.367e4	1.541e3	1.522e3	1.01	NO	3.064e3	0.67107	0.67107	0.0423

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	2,3,7,8-TCDF	25.14	1.701e3	2.839e3	1.392e2	2.171e2	0.64	YES	3.563e2	0.00000	0.047813	0.0294

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\200518R2\200518R2-12.qld

Last Altered: Wednesday, May 20, 2020 14:21:54 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 14:35:22 Pacific Daylight Time

Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423

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	29.83	1.052e4	3.455e3	5.558e2	2.737e2	2.03	YES	8.296e2	0.00000	0.075624	0.0188

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.66	4.166e3	2.724e3	1.746e2	1.096e2	1.59	YES	0.000e0	0.00000	0.035831	0.0322
2	Total Hexa-Furans	33.20	3.400e3	3.139e3	1.399e2	1.118e2	1.25	NO	2.516e2	0.036720	0.036720	0.0322
3	1,2,3,4,7,8-HxCDF	33.66	7.711e3	7.175e3	4.077e2	3.300e2	1.24	NO	7.377e2	0.11515	0.11515	0.0315
4	1,2,3,7,8,9-HxCDF	35.24	4.600e3	3.657e3	1.942e2	1.589e2	1.22	NO	3.530e2	0.064466	0.064466	0.0435
5	Total Hexa-Furans	35.28	2.765e3	1.809e3	8.802e1	5.066e1	1.74	YES	0.000e0	0.00000	0.016560	0.0322

Hepta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1,2,3,4,6,7,8-HpCDF	37.00	4.803e3	4.299e3	3.085e2	2.756e2	1.12	NO	5.841e2	0.11736	0.11736	0.0248
2	Total Hepta-Furans	37.57	5.757e3	3.916e3	2.295e2	2.519e2	0.91	NO	4.814e2	0.11355	0.11355	0.0275

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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time

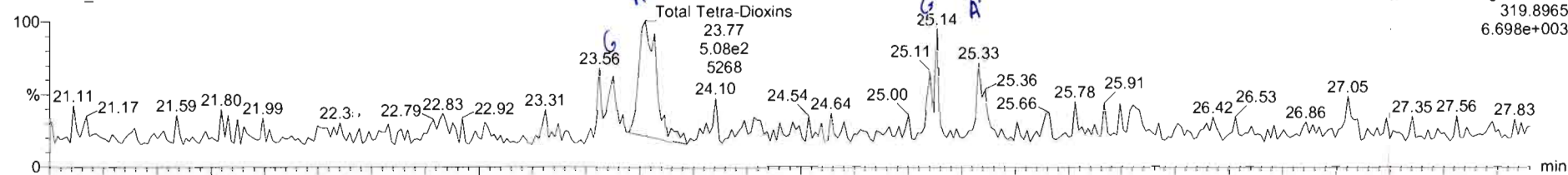
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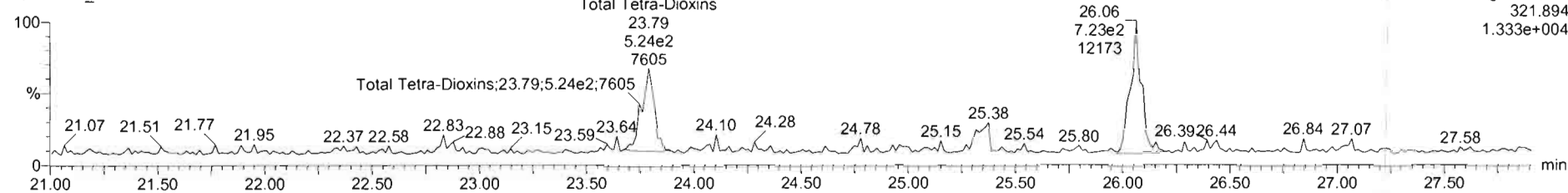
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2,3,7,8-TCDD

200518R2_12

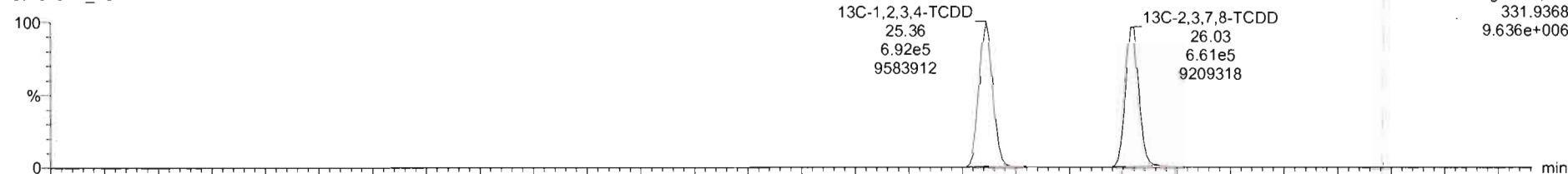


200518R2_12

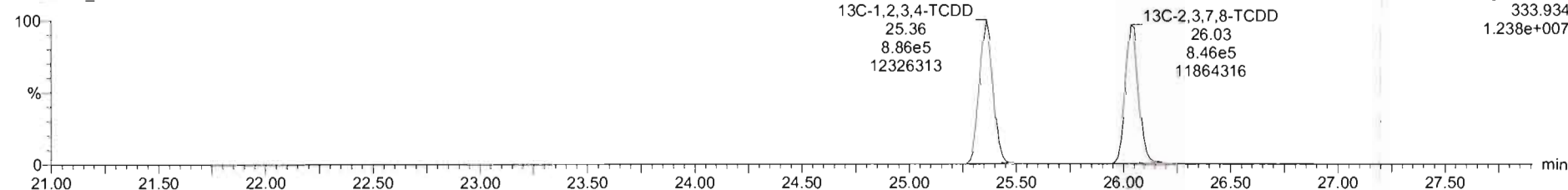


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200518R2_12

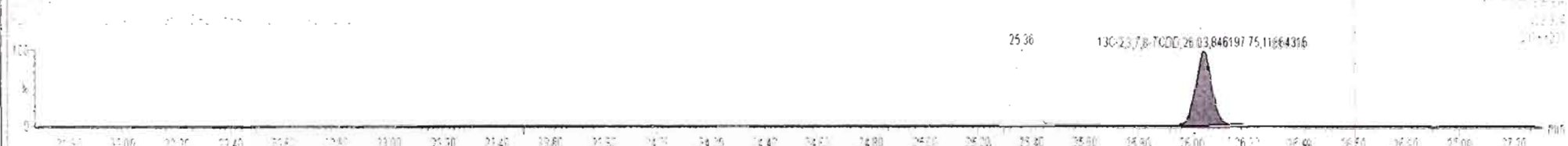
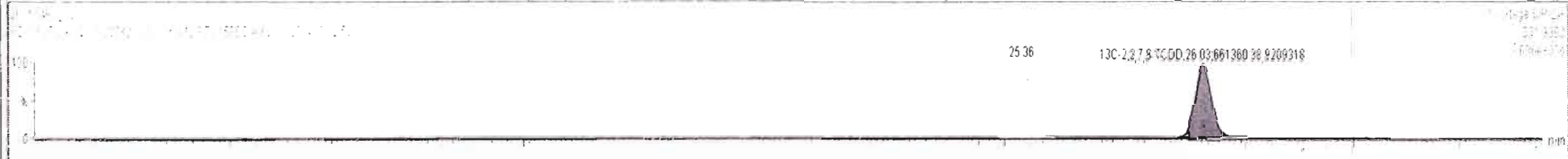
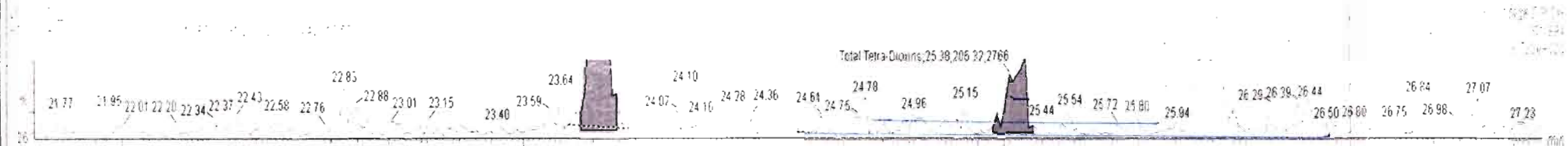
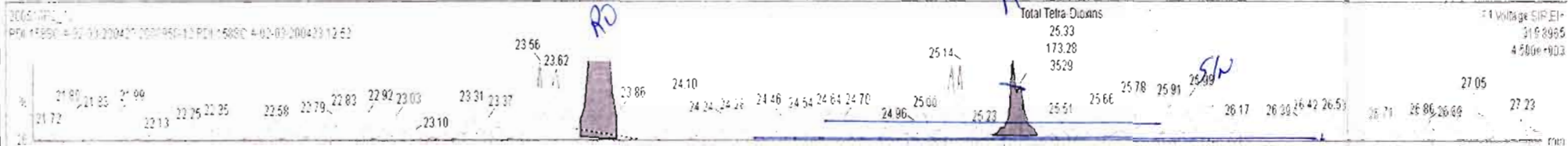


200518R2_12



PK	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	Dt	EMPC
39	Total Tetra-Dioxins				0.9475	10.141			0.0524		0.0423	0.180
40	Total Penta-Dioxins				0.9425	10.141			0.0826		0.0375	0.0826
41	Total Hexa-Dioxins				0.9145	10.141			0.540		0.0480	0.628
42	Total Hepta-Dioxins				0.8979	10.141			1.96		0.0429	1.95

PK	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Tetra-Dioxins	23.77	4.801e2	5.204e2	0.92	YES	0.12717	0.00060
2	Total Tetra-Dioxins	25.33	1.733e2	2.063e2	0.84	NO	0.052411	0.052411



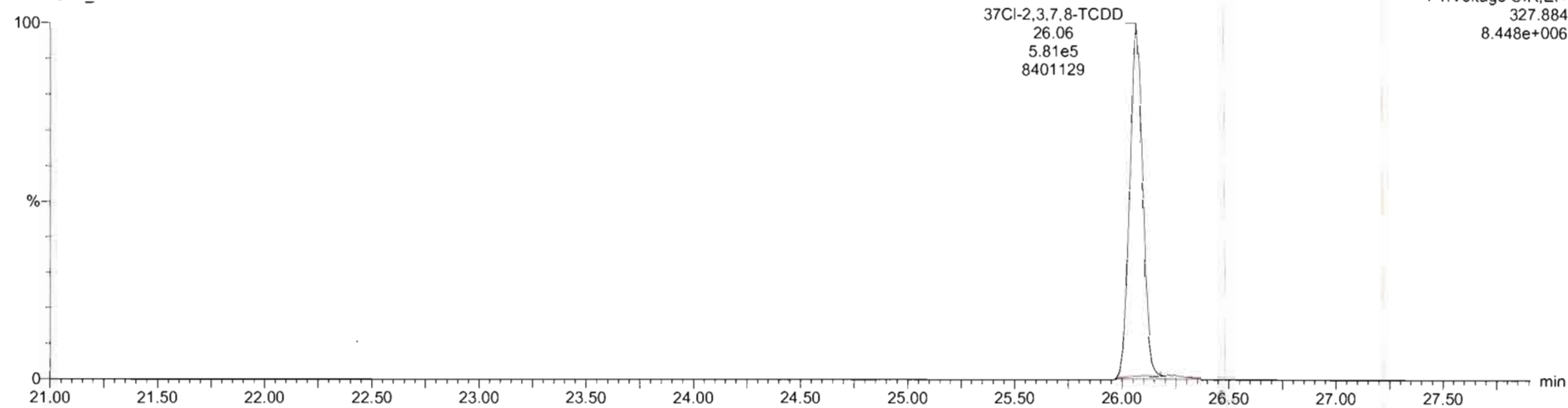
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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
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Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423

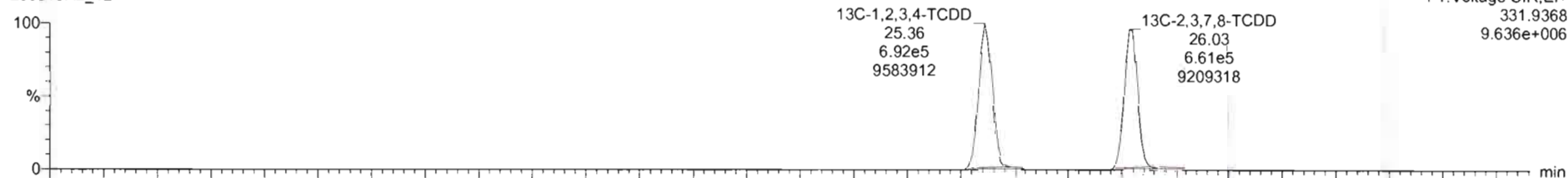
37Cl-2,3,7,8-TCDD

200518R2_12

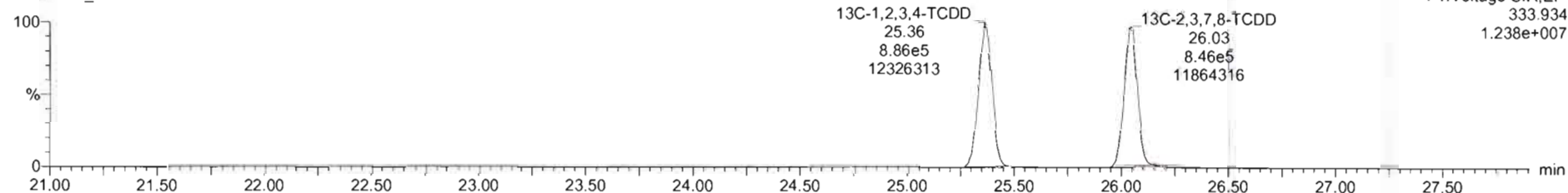


13C-1,2,3,4-TCDD

200518R2_12



200518R2_12



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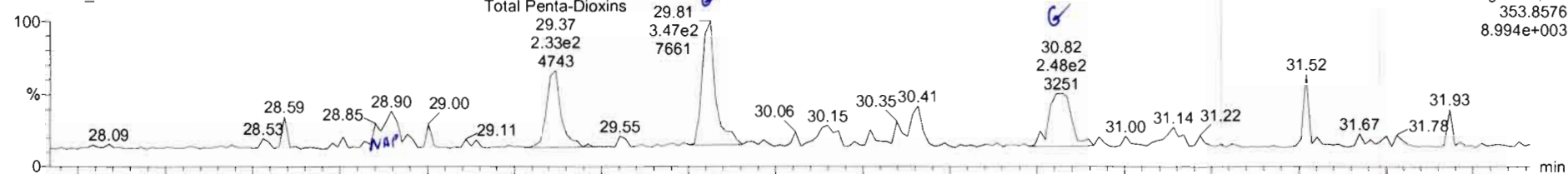
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Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423

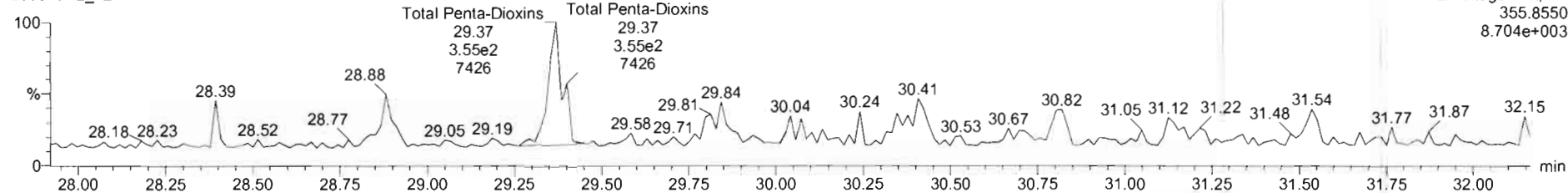
1,2,3,7,8-PeCDD

200518R2_12



F2:Voltage SIR,EI+
353.8576
8.994e+003

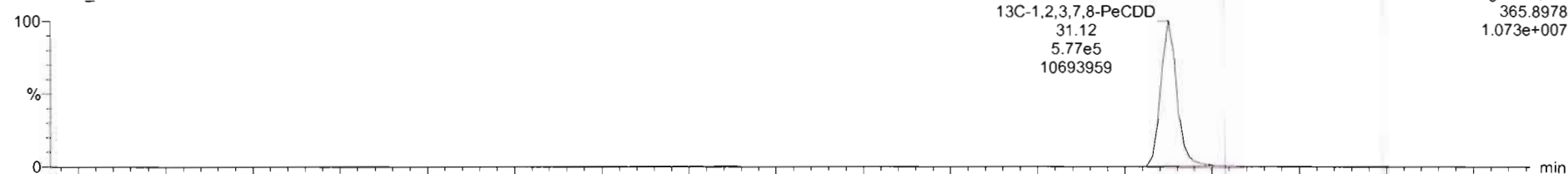
200518R2_12



F2:Voltage SIR,EI+
355.8550
8.704e+003

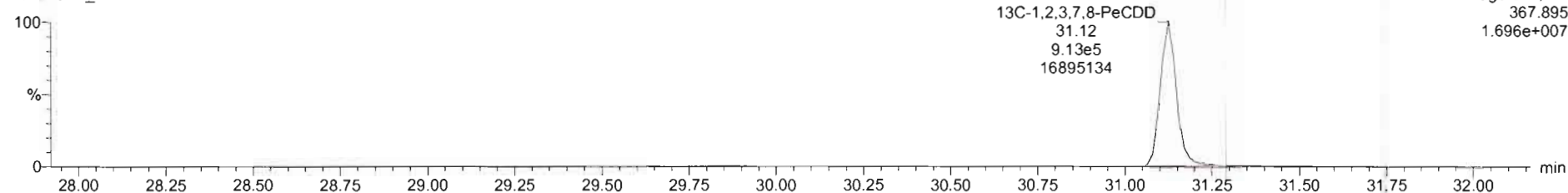
13C-1,2,3,7,8-PeCDD

200518R2_12



F2:Voltage SIR,EI+
365.8978
1.073e+007

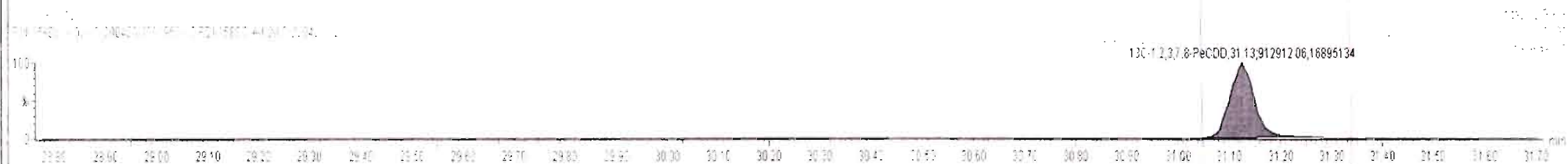
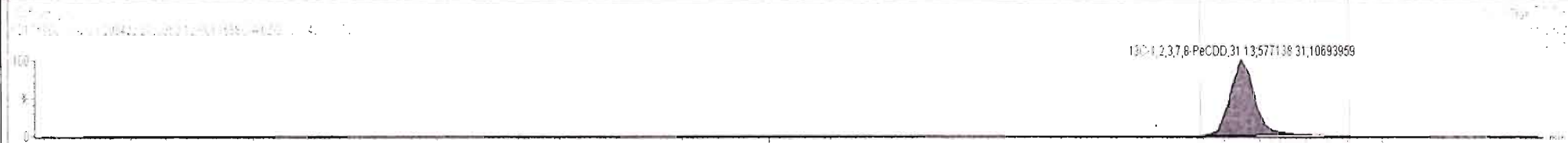
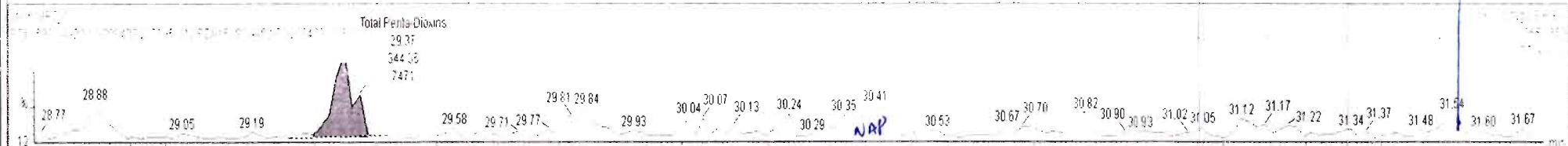
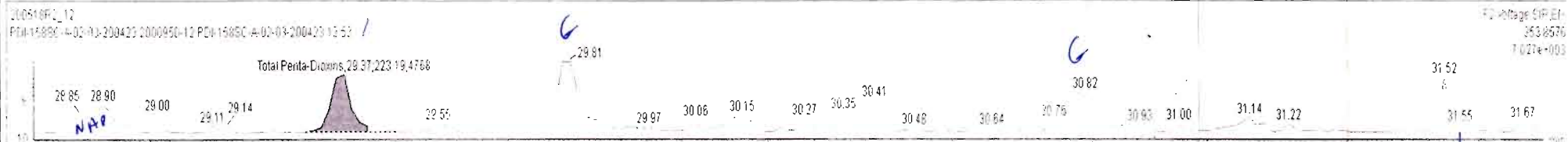
200518R2_12



F2:Voltage SIR,EI+
367.895
1.696e+007

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.141			0.0524		0.0433	0.180
40 Total Penta-Dioxins				0.9425	10.141			0.0797		0.0375	0.0797
41 Total Hexa-Dioxins				0.9145	10.141			0.540		0.0490	0.626
42 Total Hepta-Dioxins				0.8979	10.141			1.96		0.0429	1.96

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Penta-Dioxins	29.37	2.252e2	3.444e2	0.65	NO	0.079704	0.079704



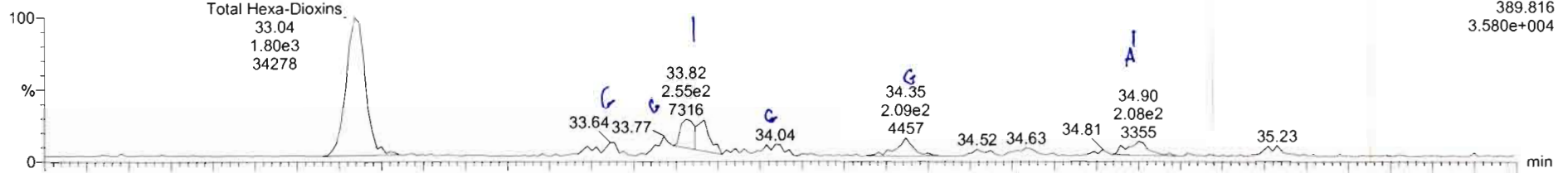
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Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

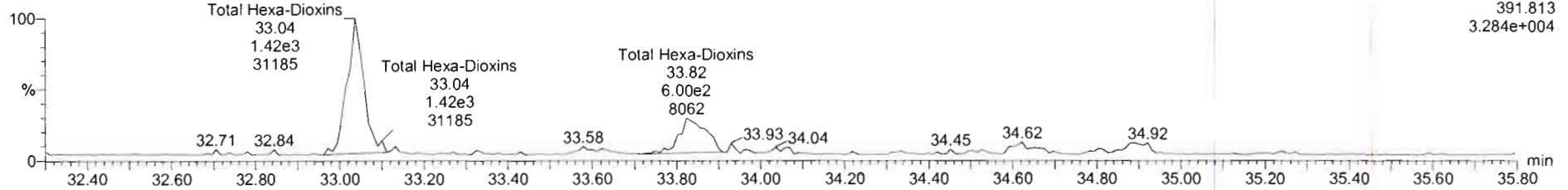
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1,2,3,4,7,8-HxCDD

200518R2_12

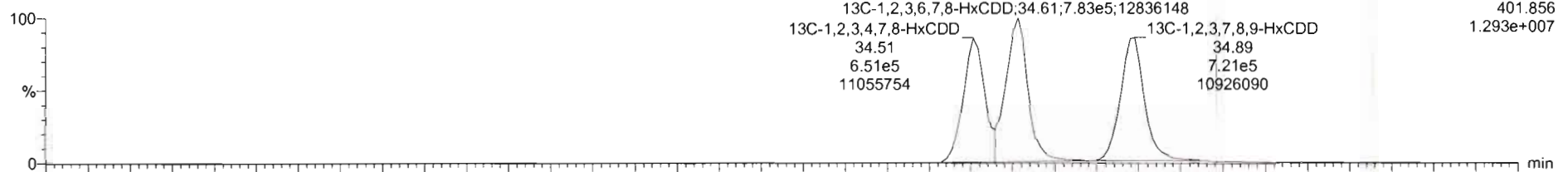


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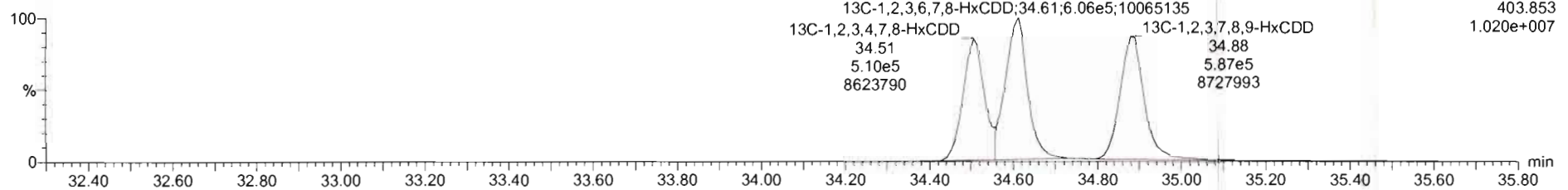


13C-1,2,3,4,7,8-HxCDD

200518R2_12



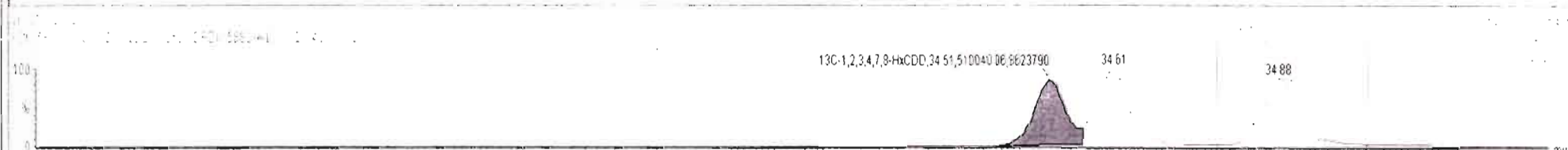
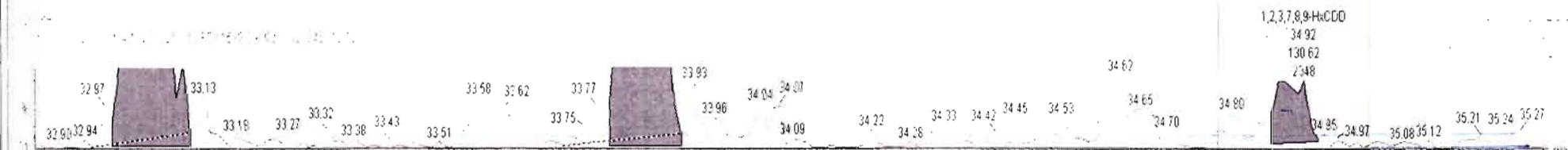
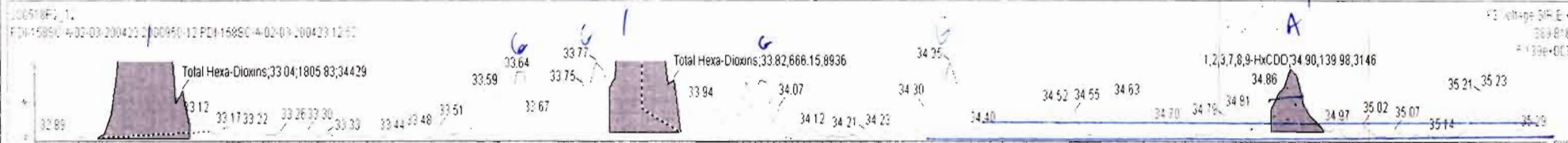
200518R2_12



200518R2_12 - 2000950-12 PDI-158SC-A-02-03-200423 12.52 - PDI-158SC-A-02-03-200423

X	Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39	Total Tetra-Dioxins				0.9475	10.141			0.0524	0.0423	0.180	
40	Total Penta-Dioxins				0.9425	10.141			0.0797	0.0375	0.0797	
41	Total Hexa-Dioxins				0.9145	10.141			0.800	0.0490	0.800	
42	Total Hepta-Dioxins				0.8979	10.141			1.95	0.0429	1.95	

X	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1	Total Hexa-Dioxins	33.04	1.806e3	1.438e3	1.26	NO	0.54402	0.54402
2	Total Hexa-Dioxins	33.82	6.662e2	5.972e2	1.12	NO	0.21188	0.21188
3	1,2,3,7,8,9-HxCDD	34.90	1.400e2	1.306e2	1.07	NO	0.044602	0.044602



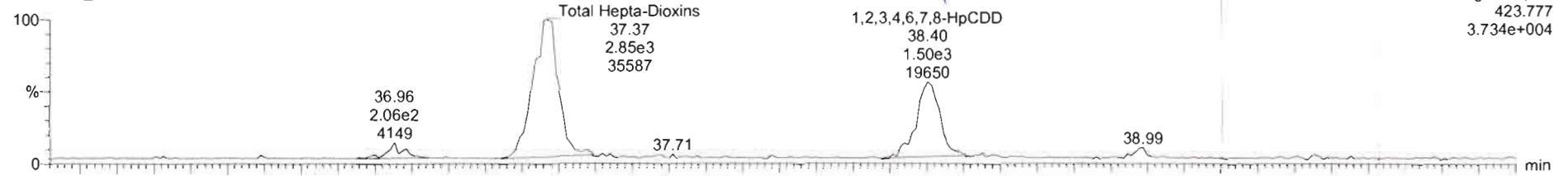
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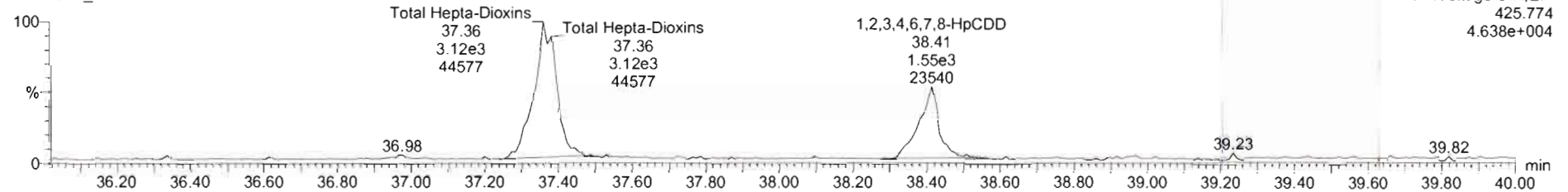
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1,2,3,4,6,7,8-HpCDD

200518R2_12

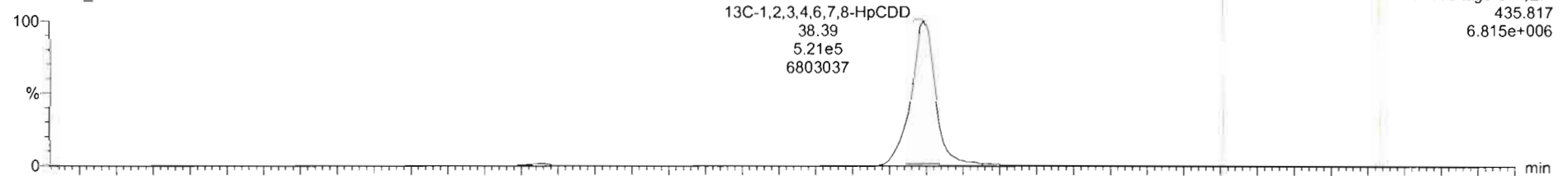


200518R2_12

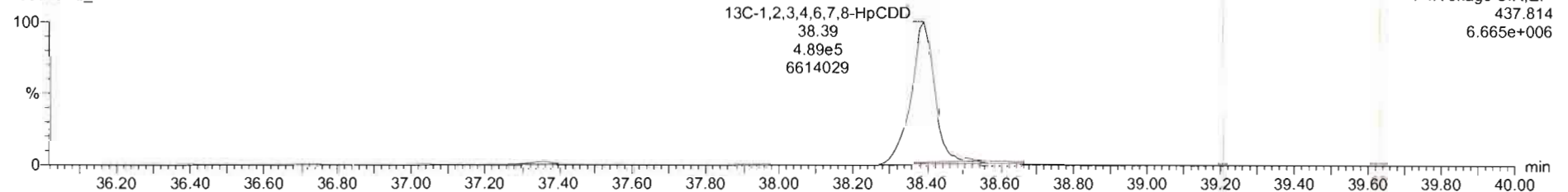


13C-1,2,3,4,6,7,8-HpCDD

200518R2_12

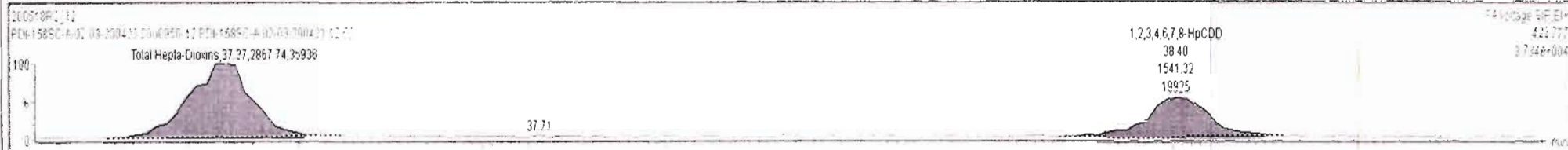


200518R2_12



Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.141			0.0524	0.0423	0.163	
40 Total Penta-Dioxins				0.9425	10.141			0.0797	0.0375	0.0797	
41 Total Hexa-Dioxins				0.9145	10.141			0.800	0.0490	0.803	
42 Total Hepta-Dioxins				0.8979	10.141			1.97	0.0423	1.97	

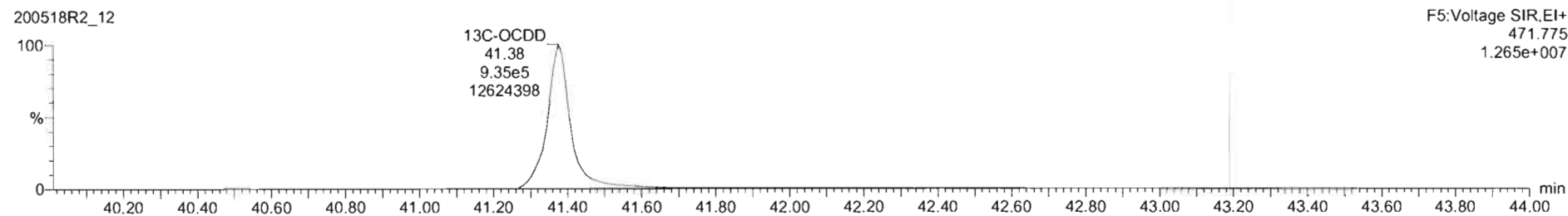
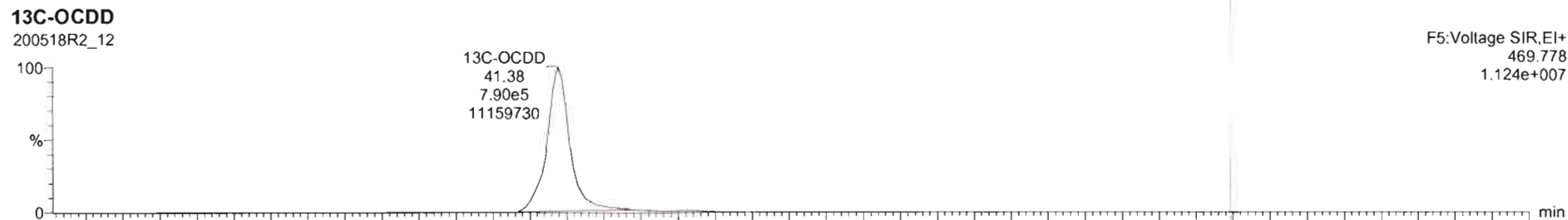
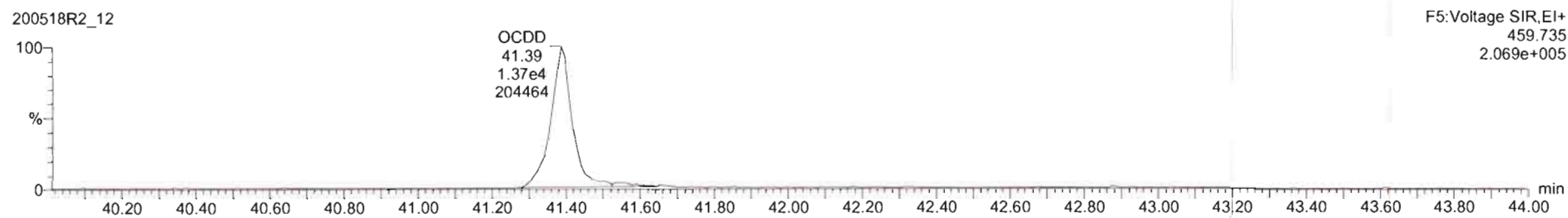
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Hepta-Dioxins	37.37	2.869e3	3.047e3	0.94	NO	1.2957	1.2957
2 1,2,3,4,6,7,8-HpCDD	38.40	1.541e3	1.522e3	1.01	NO	0.67107	0.67107



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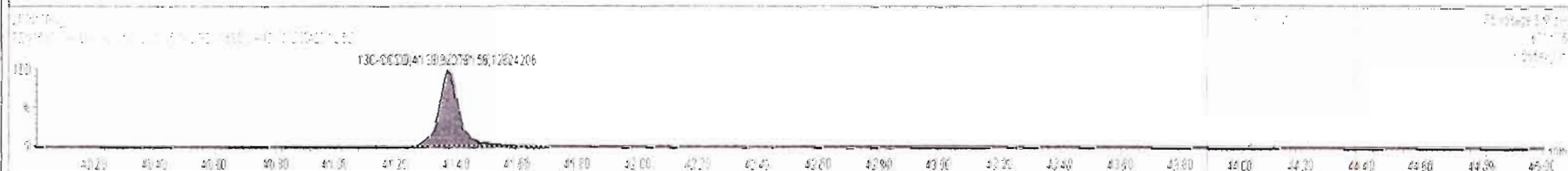
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Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
7 OCDD	2.80e4	0.89	NO	0.9335	10.141	41.39	1.000	6.41		0.0662	6.41
8 2,3,7,8-TCDF			NO	0.7871	10.141					0.0294	
9 1,2,3,7,8-PeCDF	8.52e2	1.93	YES	0.9102	10.141	25.83	1.001	0.0923		0.0180	0.0804
10 2,3,4,7,8-PeCDF			NO	0.9664	10.141					0.0180	

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



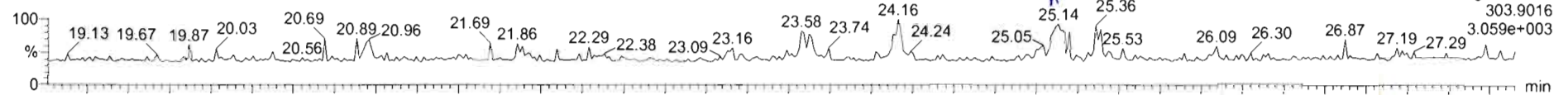
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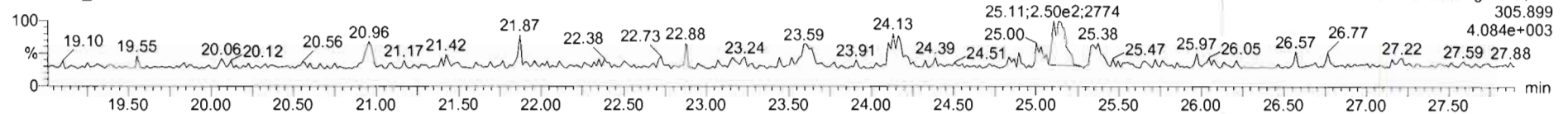
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2,3,7,8-TCDF

200518R2_12

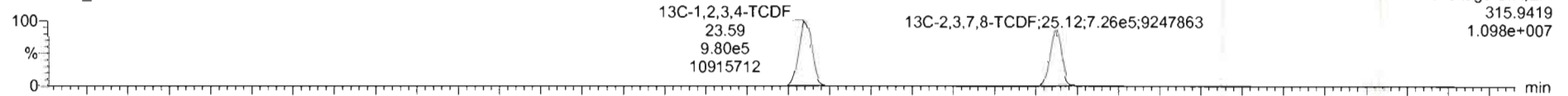


200518R2_12

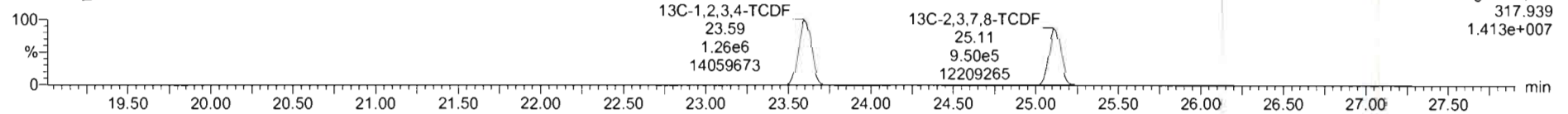


13C-2,3,7,8-TCDF

200518R2_12

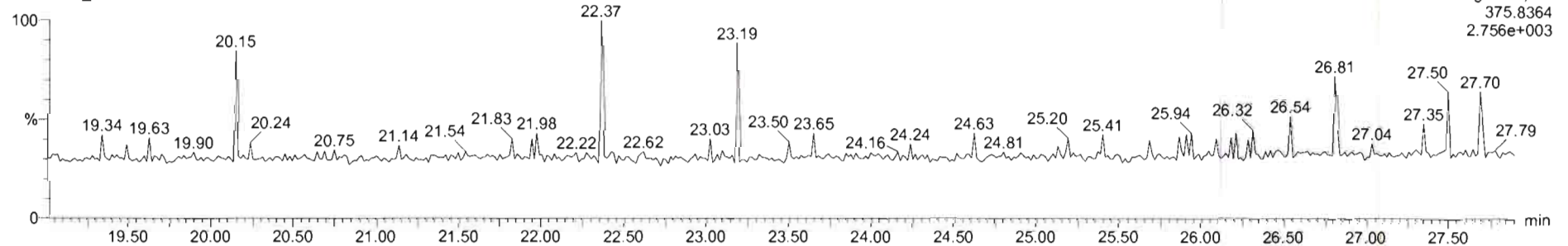


200518R2_12



DPE1

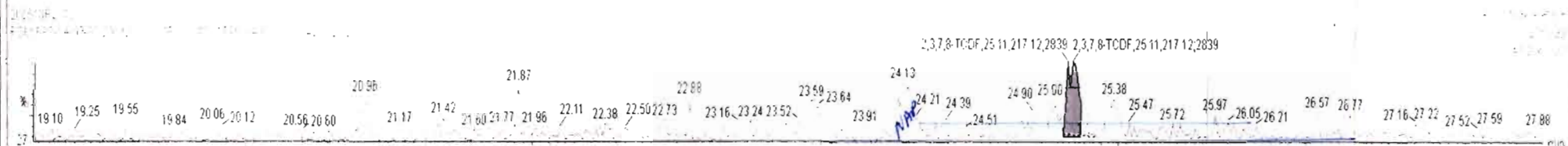
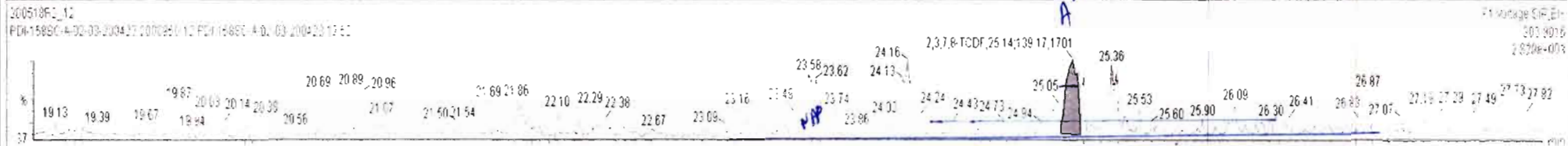
200518R2_12



200518R2_12 - 2000950-12 PDI-158SC-A-02-03-200423 12 52 - PDI-158SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.141			0.000		0.0125	0.0478
44 1st Func. Penta-Furans				0.9102	10.141					0.00479	
45 Total Penta-Furans				0.9102	10.141			0.000		0.00737	0.0804
46 Total Hexa-Furans				0.9217	10.141			0.116		0.0322	0.116

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 2,3,7,8-TCDF	25.14	1.392e2	2.171e2	0.64	YES	0.047813	0.06300



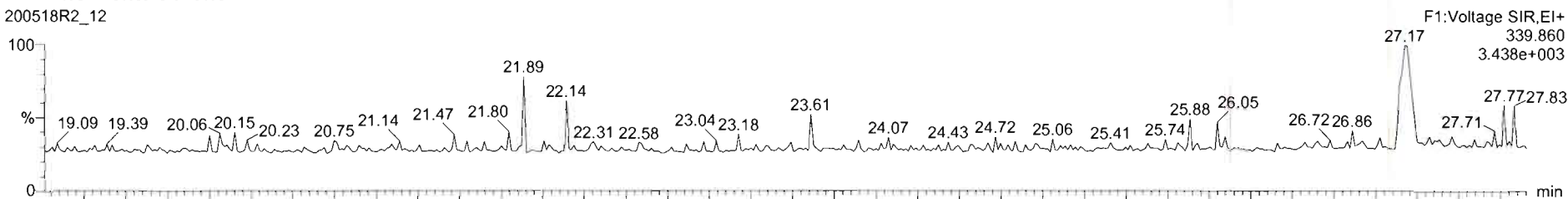
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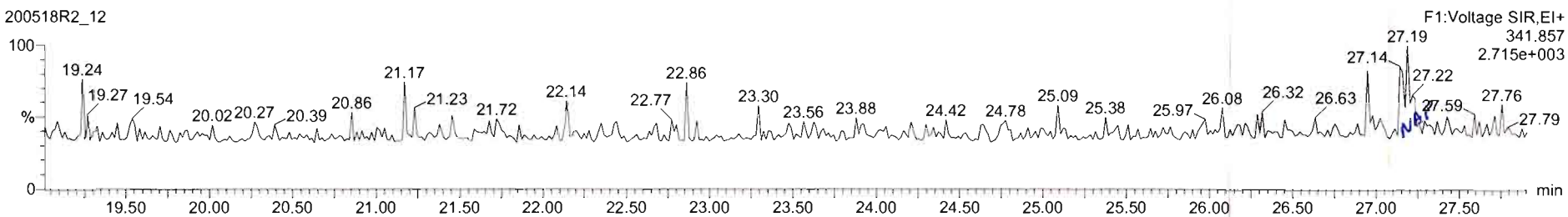
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1st Func. Penta-Furans

200518R2_12

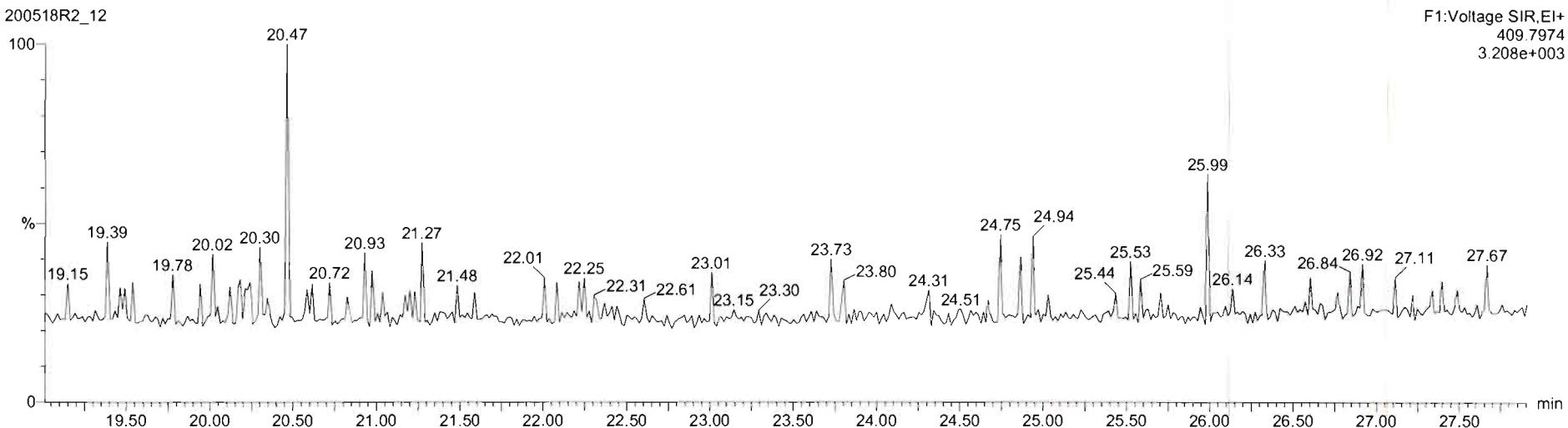


200518R2_12



DPE6

200518R2_12

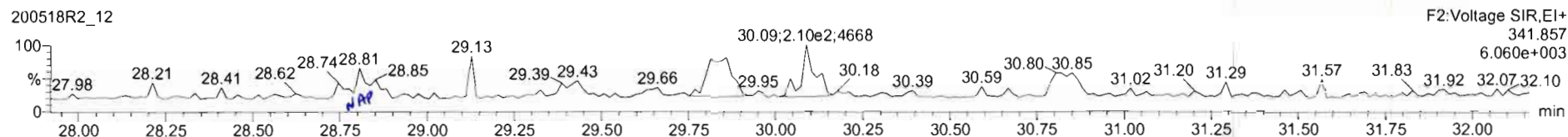
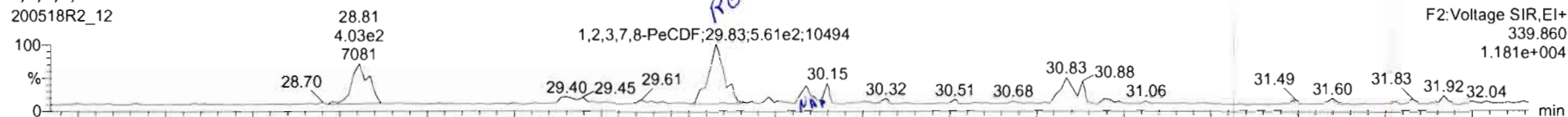


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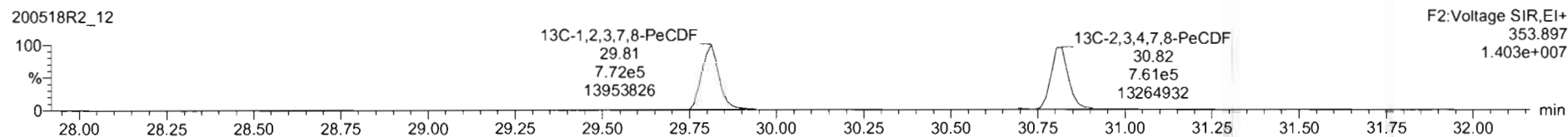
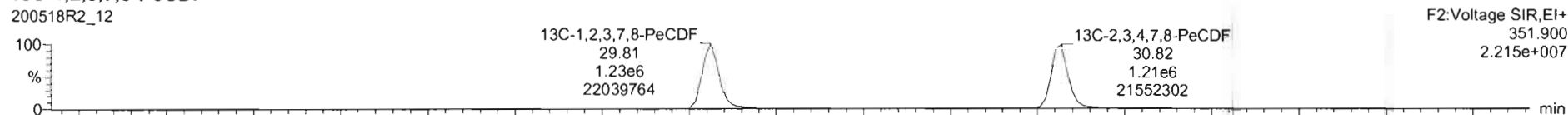
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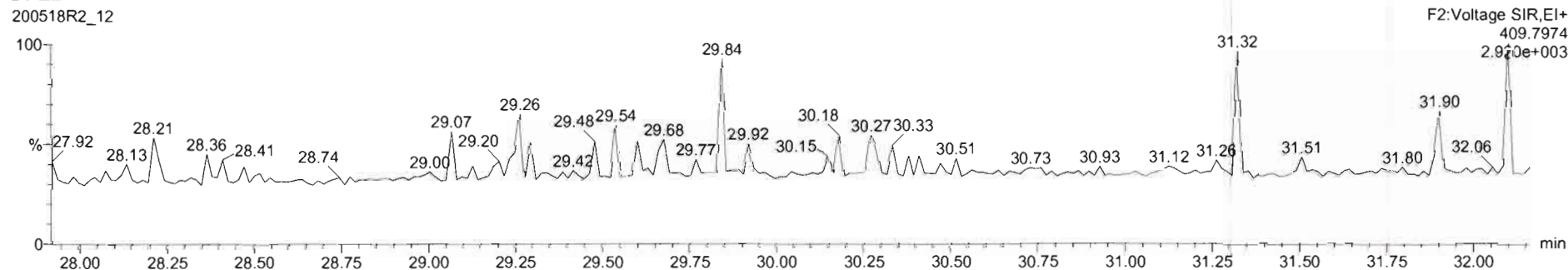
1,2,3,7,8-PeCDF



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



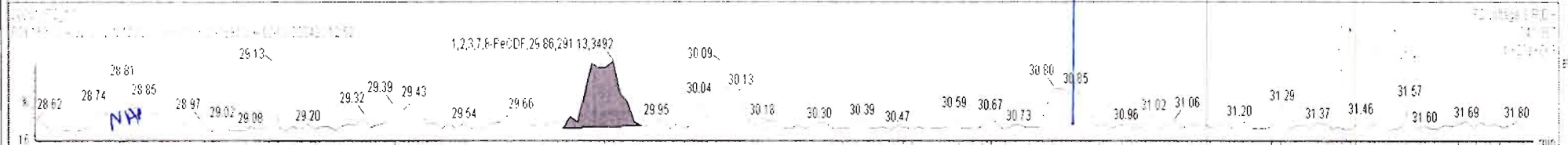
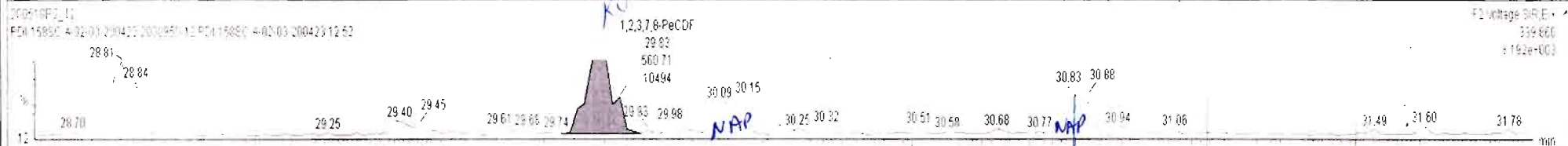
DPE2



200518R2_12 - 2000950-12 PDI-158SC-A-02-03-200423 12 52 - PDI-158SC-A-02-03-200423

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9102	10.141				0.00479		
45 Total Penta-Furans				0.9102	10.141			0.000	0.00737	0.0804	
46 Total Hexa-Furans				0.9217	10.141			0.116	0.0322	0.116	
47 Total Hepta-Furans				0.8712	10.141			0.131	0.0275	0.131	

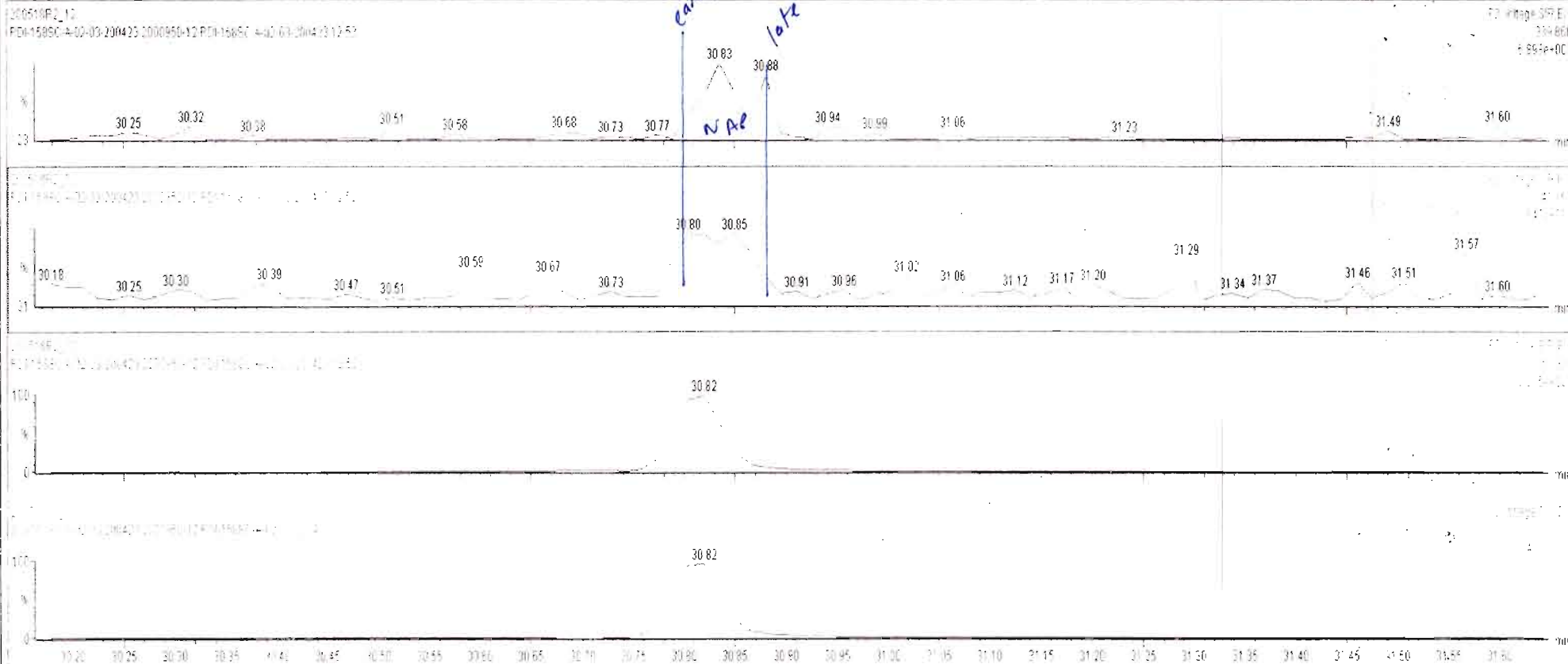
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,7,8-PeCDF	29.83	5.607e2	2.911e2	1.93	YES	0.080425	0.00000



200518R2_12 - 2000950-12 PDI-158SC-A-02-03-200423 12.52 - PDI-158SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9102	10.141					0.00475	
45 Total Penta-Furans				0.9102	10.141			0.000	0.00737	0.0756	
46 Total Hexa-Furans				0.9217	10.141			0.116	0.0322	0.118	
47 Total Hepta-Furans				0.9712	10.141			0.131	0.0275	0.131	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 1,2,3,7,8-PeCDF	29.83	5.558e2	2.737e2	2.03	YES	0.075624	0.00000



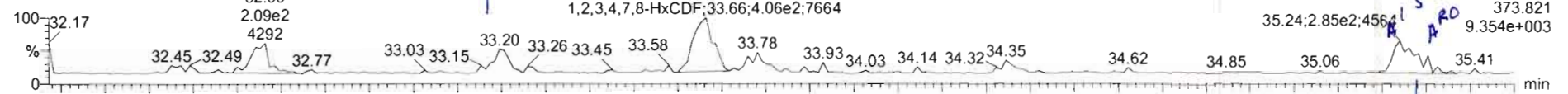
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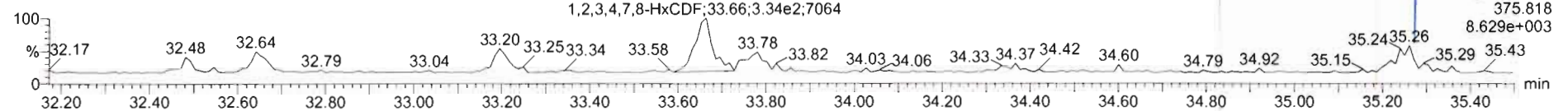
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1,2,3,4,7,8-HxCDF

200518R2_12

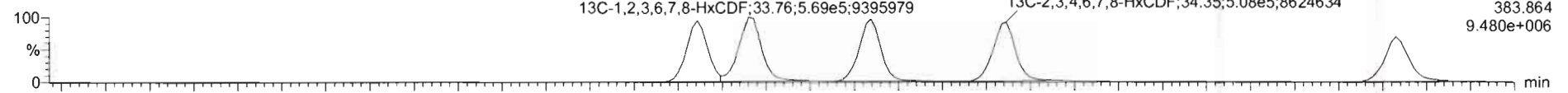


200518R2_12

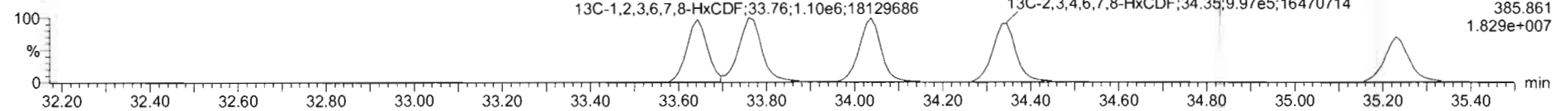


13C-1,2,3,4,7,8-HxCDF

200518R2_12

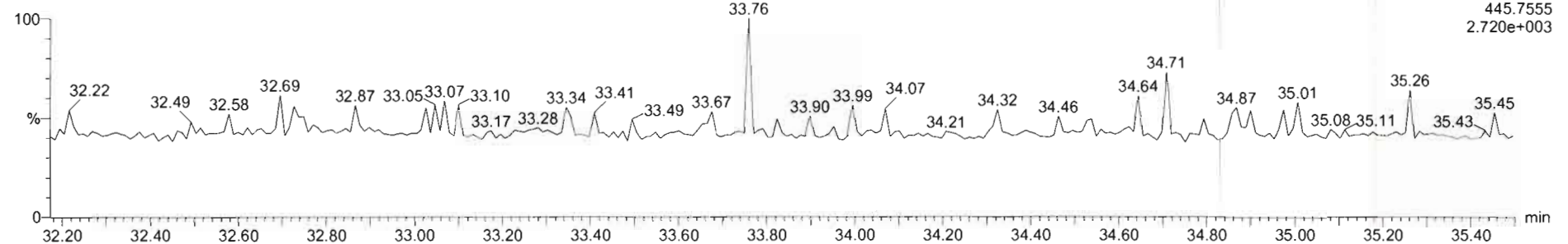


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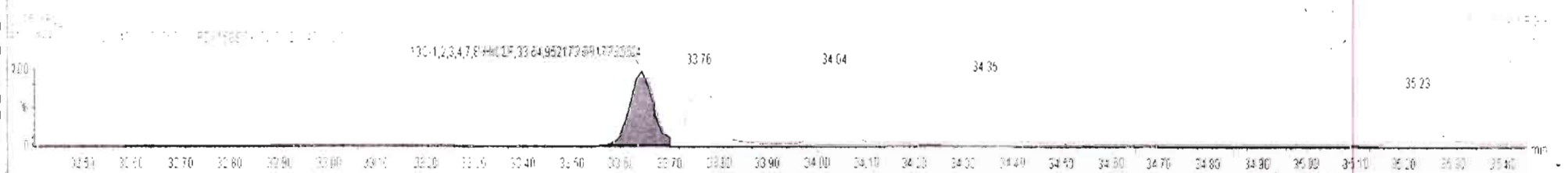
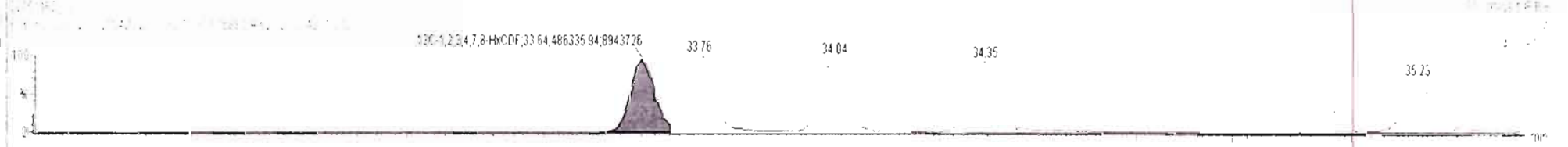
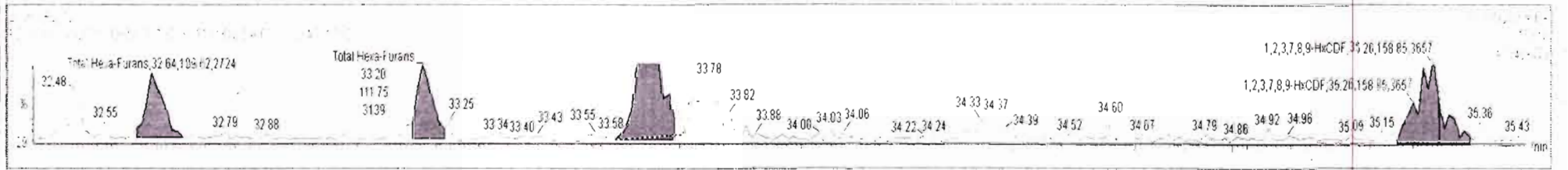
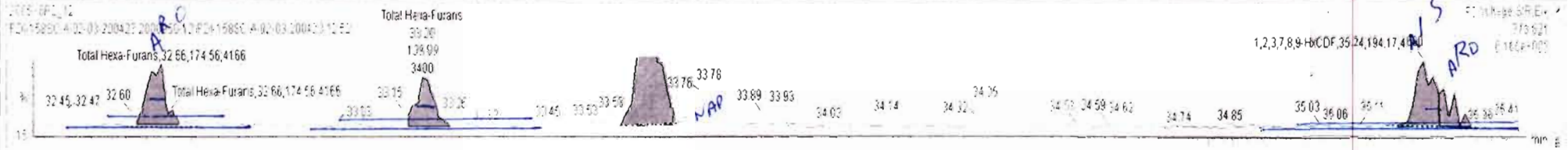
DPE3

200518R2_12



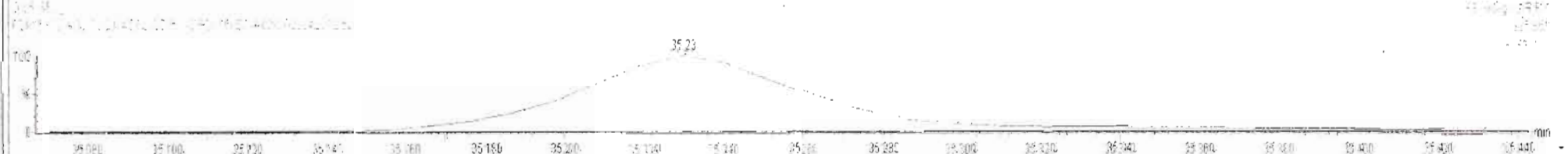
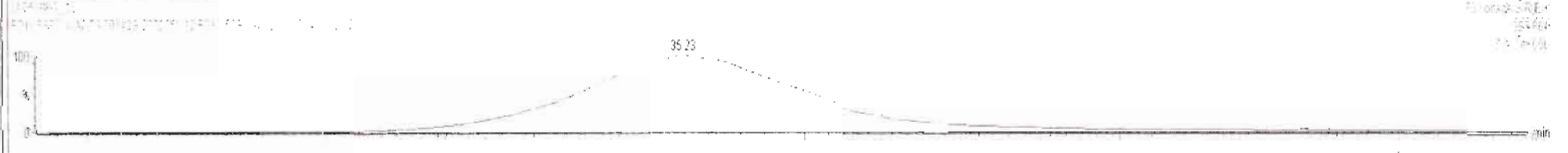
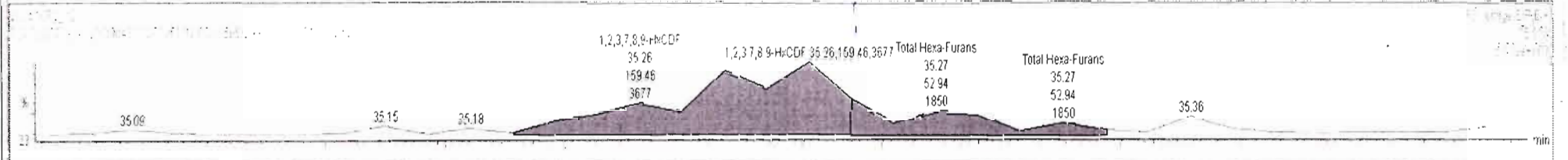
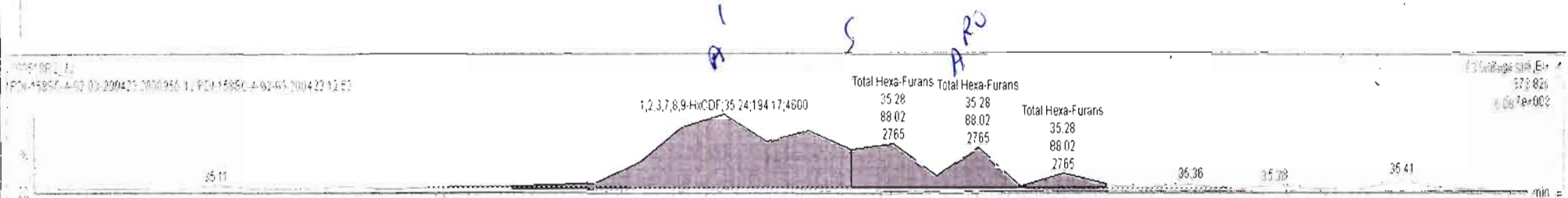
Name	Resp	RA	n/y	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9102	10.141					0.00479	
45 Total Penta-Furans				0.9102	10.141			0.000		0.00737	0.0756
46 Total Hexa-Furans				0.9217	10.141			0.216		0.0322	0.269
47 Total Hepta-Furans				0.6712	10.141			0.131		0.0275	0.131

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Furans	32.66	1.746e2	1.096e2	1.59	YES	0.035831	0.00003
2 Total Hexa-Furans	33.20	1.359e2	1.118e2	1.25	NO	0.036720	0.036720
3 1,2,3,4,7,8-HxCDF	33.66	4.077e2	3.300e2	1.24	NO	0.11515	0.11515
4 1,2,3,7,8,9-HxCDF	35.24	1.942e2	1.589e2	1.22	NO	0.064466	0.064466
5 Total Hepta-Furans	35.28	8.802e1	5.066e1	1.74	YES	0.016560	0.00000



Name	Resp	RA	nly	RRF	w/mol	RT	RRT	Conc	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9102	10.141					0.00479	
45 Total Penta-Furans				0.9102	10.141			0.000		0.00737	0.0756
46 Total Hexa-Furans				0.9217	10.141			0.160		0.0322	0.197
47 Total Hepta-Furans				0.8712	10.141			0.131		0.0275	0.131

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,7,8-HxCDF	33.66	4.059e2	3.344e2	1.21	NO	0.11556	0.11556
2 1,2,3,7,8,9-HxCDF	35.24	1.942e2	1.595e2	1.22	NO	0.064576	0.064576
3 Total Hexa-Furans	35.28	8.602e1	5.294e1	1.66	YES	0.017305	0.00000



Dataset: Untitled

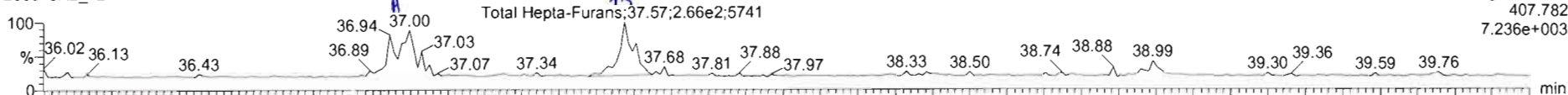
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** 05-20-2020*

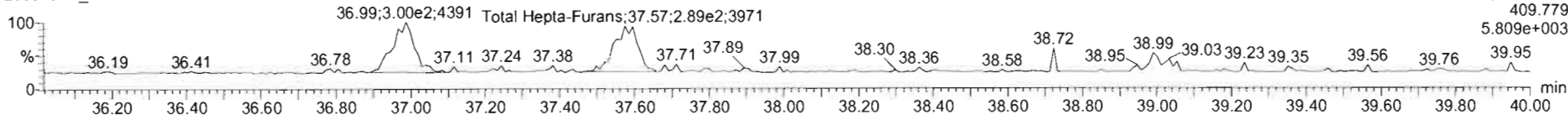
Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423

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

200518R2_12

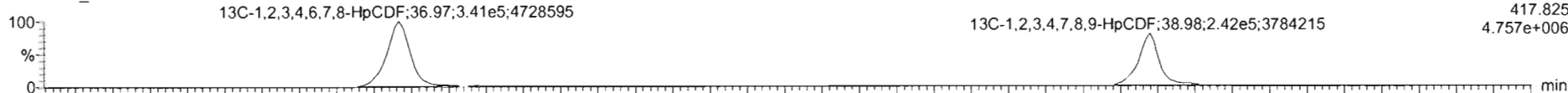


200518R2_12

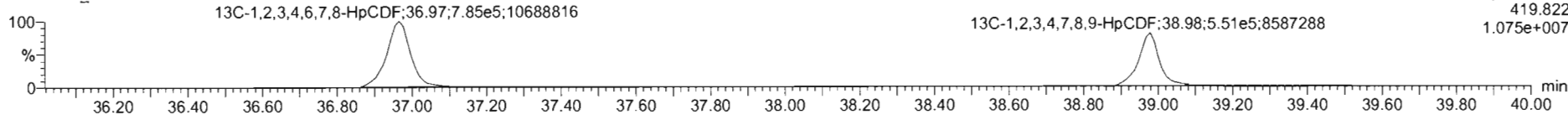


13C-1,2,3,4,6,7,8-HpCDF

200518R2_12

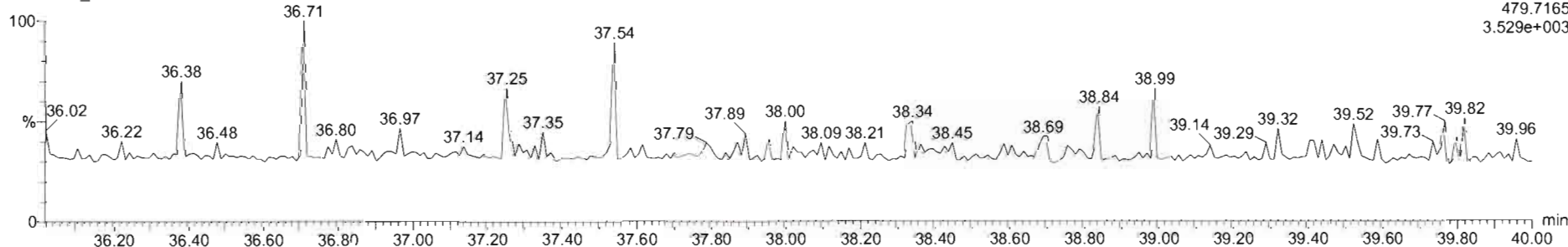


200518R2_12



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200518R2_12

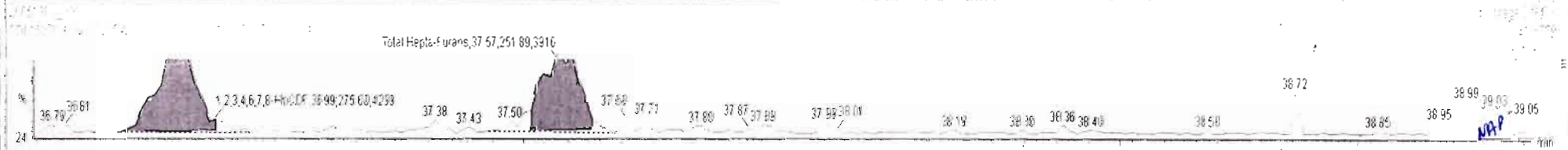
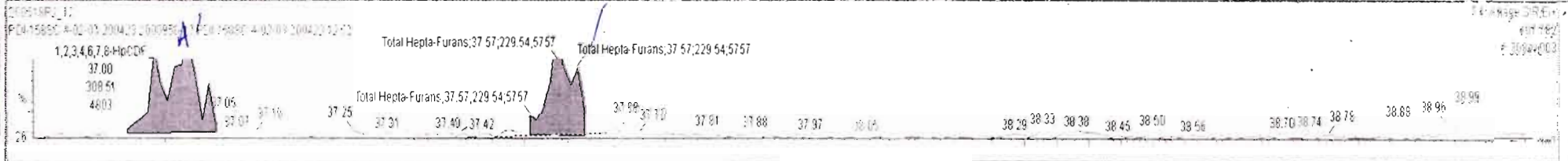




200518R2_12 - 2000950-12 PDI-158SC-A-02-03-200423 12.52 - PDI-158SC-A-02-03-200423

Name	Resp	RA	nly	RRF	w/hot	RT	RRT	Conc.	%Rec	DL	EMPC
44 1st Func. Penta-Furans				0.9102	10.141					0.00479	
45 Total Penta-Furans				0.9102	10.141			0.000		0.00737	0.0755
46 Total Hexa-Furans				0.9217	10.141			0.216		0.0322	0.269
47 Total Hepta-Furans				0.8712	10.141			0.231		0.0275	0.231

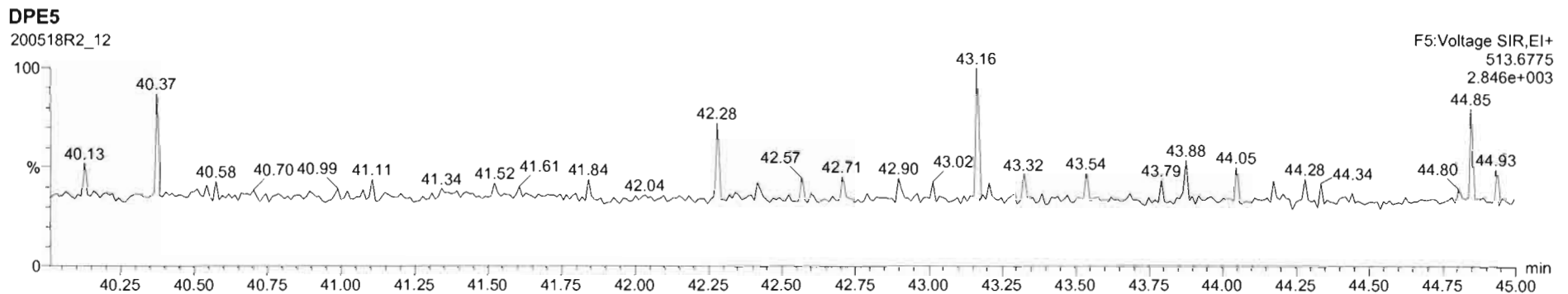
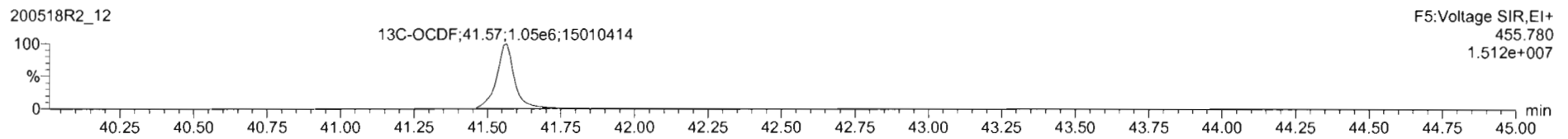
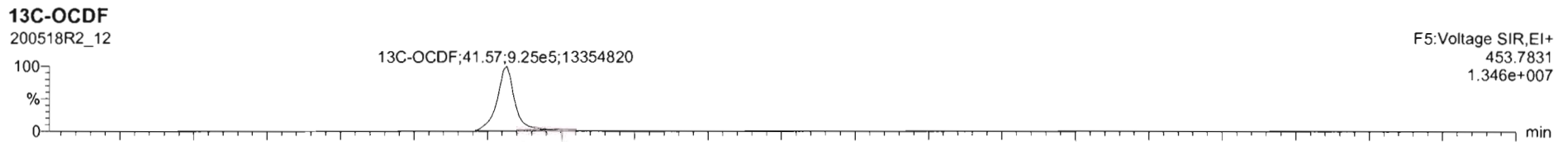
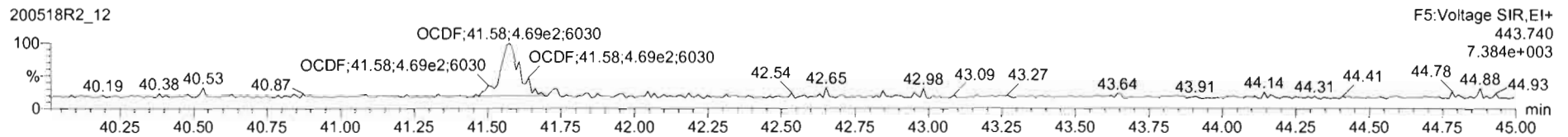
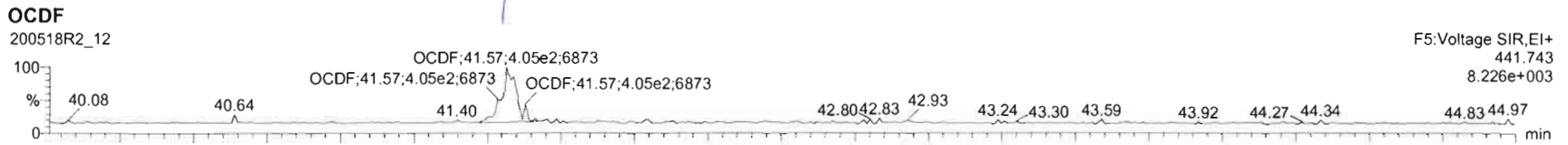
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 1,2,3,4,6,7,8-HpCDF	37.00	3.085e2	2.755e2	1.12	NO	0.11736	0.11736
2 Total Hepta-Furans	37.57	2.295e2	2.519e2	0.91	NO	0.11355	0.11355



Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

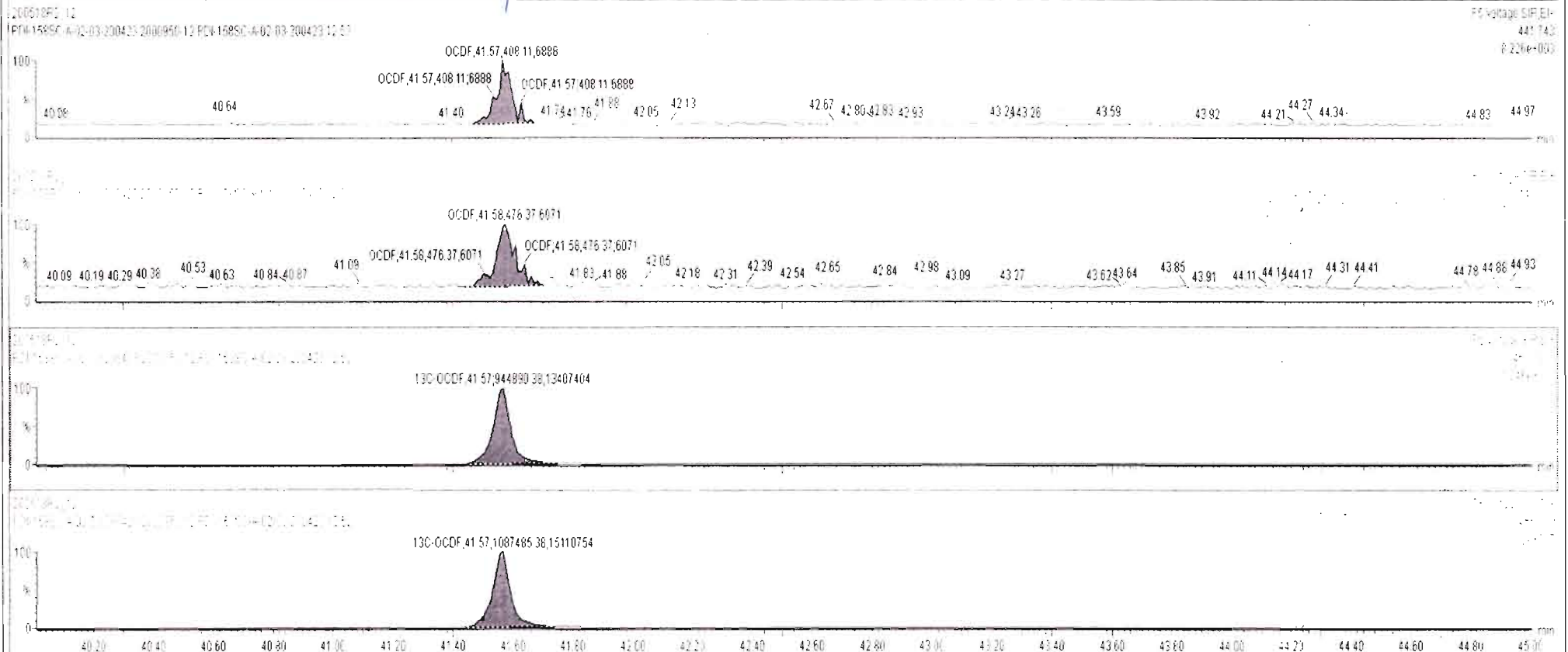
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200518R2_12 - 2000950-12 PDI-158SC-A-02-03-200423 12:52 - PDI-158SC-A-02-03-200423

Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
17 OCDF	8.84e2	0.86	NO	0.8021	10.141	41.57	1.000	0.214		0.0369	0.214
18 13C-2,3,7,8-TCDD	1.51e6	0.70	NO	1.1595	10.141	26.03	1.027	162	82.4		0.144
19 13C-1,2,3,7,8-PeCDD	1.49e6	0.63	NO	0.8472	10.141	31.13	1.227	220	111		0.197
20 13C-1,2,3,4,7,8-HxCDD	1.16e6	1.26	NO	0.7498	10.141	34.51	1.014	202	102		0.289

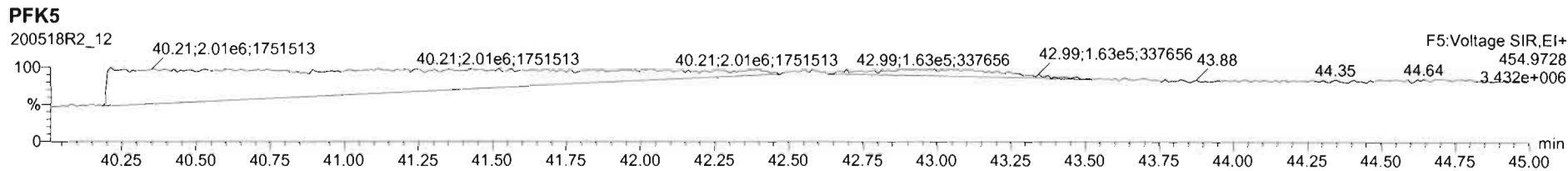
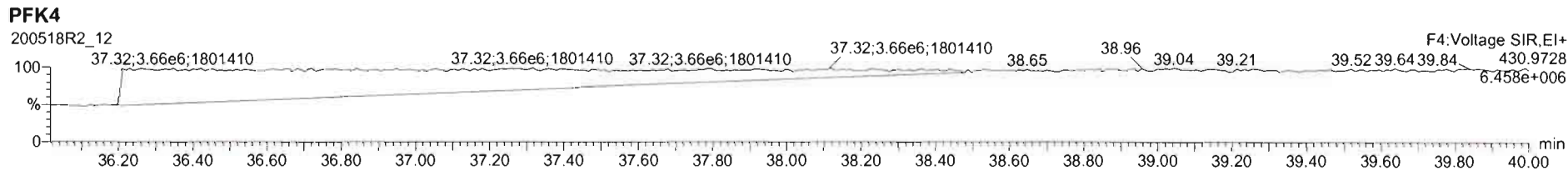
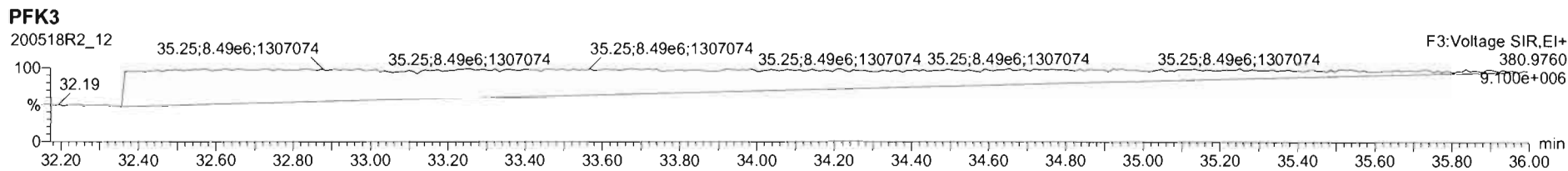
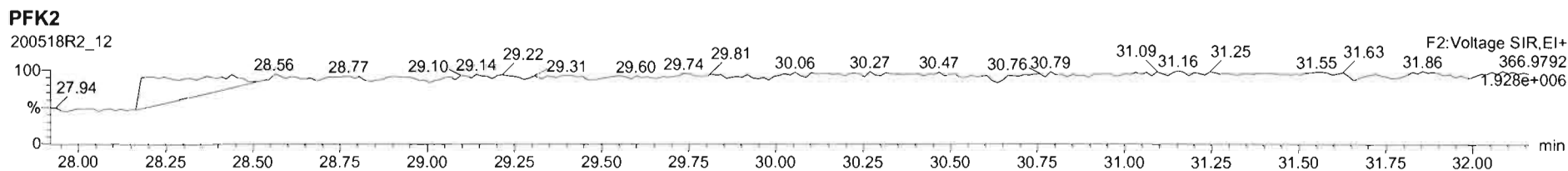
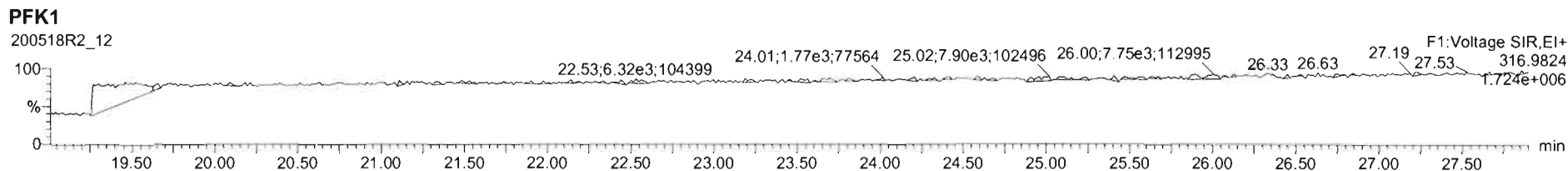
Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1							



Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_12, Date: 18-May-2020, Time: 22:30:59, ID: 2000950-12 PDI-158SC-A-02-03-200423 12.52, Description: PDI-158SC-A-02-03-200423



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-13a.qld

Last Altered: Wednesday, May 20, 2020 15:49:13 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 16:00:15 Pacific Daylight Time

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07/03/22/2020

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_13, Date: 18-May-2020, Time: 23:17:11, ID: 2000950-13 PDI-158SC-A-03-04-200423 12.06, Description: PDI-158SC-A-03-04-200423

#	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	0.947	10.090	26.081		1.001				0.0442	
2	2 1,2,3,7,8-PeCDD			NO	0.942	10.090	31.147		1.001				0.0580	
3	3 1,2,3,4,7,8-HxCDD			NO	1.06	10.090	34.515		1.000				0.0490	
4	4 1,2,3,6,7,8-HxCDD			NO	0.915	10.090	34.612		1.000				0.0501	
5	5 1,2,3,7,8,9-HxCDD			NO	0.915	10.090	34.899		1.000				0.0529	
6	6 1,2,3,4,6,7,8-HpCDD	3.11e3	1.25	YES	0.898	10.090	38.405	38.41	1.000	1.001	0.67989		0.0917	0.617
7	7 OCDD	3.30e4	0.87	NO	0.933	10.090	41.386	41.40	1.000	1.000	8.0415		0.0696	8.04
8	8 2,3,7,8-TCDF	3.32e2	0.63	YES	0.787	10.090	25.147	25.15	1.001	1.001	0.047860		0.0147	0.0424
9	9 1,2,3,7,8-PeCDF	6.46e2	1.76	NO	0.910	10.090	29.834	29.83	1.001	1.001	0.073849		0.0368	0.0738
10	10 2,3,4,7,8-PeCDF	3.50e2	1.21	YES	0.966	10.090	30.820	30.82	1.000	1.000	0.039132		0.0349	0.0353
11	11 1,2,3,4,7,8-HxCDF	7.75e2	1.16	NO	0.878	10.090	33.643	33.64	1.000	1.000	0.12684		0.0356	0.127
12	12 1,2,3,6,7,8-HxCDF			NO	0.874	10.090	33.781		1.000				0.0352	
13	13 2,3,4,6,7,8-HxCDF			NO	0.922	10.090	34.380		1.001				0.0362	
14	14 1,2,3,7,8,9-HxCDF			NO	0.864	10.090	35.240		1.000				0.0530	
15	15 1,2,3,4,6,7,8-HpCDF	6.77e2	1.00	NO	0.871	10.090	37.013	36.97	1.001	1.000	0.13625		0.0383	0.136
16	16 1,2,3,4,7,8,9-HpCDF			NO	1.01	10.090	38.979		1.000				0.0420	
17	17 OCDF	1.32e3	0.76	YES	0.802	10.090	41.567	41.57	1.000	1.000	0.31560		0.0402	0.288
18	18 13C-2,3,7,8-TCDD	1.49e6	0.79	NO	1.16	10.090	26.046	26.05	1.026	1.027	144.51	72.9	0.162	
19	19 13C-1,2,3,7,8-PeCDD	1.42e6	0.64	NO	0.847	10.090	31.141	31.13	1.227	1.227	189.04	95.4	0.114	
20	20 13C-1,2,3,4,7,8-HxCDD	1.10e6	1.28	NO	0.750	10.090	34.517	34.51	1.014	1.014	180.63	91.1	0.209	
21	21 13C-1,2,3,6,7,8-HxCDD	1.30e6	1.29	NO	0.963	10.090	34.629	34.61	1.017	1.017	166.51	84.0	0.162	
22	22 13C-1,2,3,7,8,9-HxCDD	1.27e6	1.26	NO	0.838	10.090	34.898	34.89	1.025	1.025	187.00	94.3	0.187	
23	23 13C-1,2,3,4,6,7,8-HpCDD	1.01e6	1.05	NO	0.641	10.090	38.390	38.39	1.128	1.128	194.30	98.0	0.380	
24	24 13C-OCDD	1.74e6	0.90	NO	0.586	10.090	41.386	41.39	1.216	1.216	367.08	92.6	0.303	
25	25 13C-2,3,7,8-TCDF	1.74e6	0.77	NO	1.03	10.090	25.104	25.12	0.989	0.990	133.64	67.4	0.178	
26	26 13C-1,2,3,7,8-PeCDF	1.91e6	1.56	NO	0.845	10.090	29.829	29.81	1.176	1.175	178.72	90.2	0.321	
27	27 13C-2,3,4,7,8-PeCDF	1.83e6	1.60	NO	0.814	10.090	30.822	30.82	1.215	1.215	178.50	90.1	0.334	
28	28 13C-1,2,3,4,7,8-HxCDF	1.38e6	0.51	NO	1.00	10.090	33.656	33.64	0.989	0.988	169.44	85.5	0.369	
29	29 13C-1,2,3,6,7,8-HxCDF	1.55e6	0.51	NO	1.14	10.090	33.778	33.77	0.992	0.992	168.34	84.9	0.326	
30	30 13C-2,3,4,6,7,8-HxCDF	1.45e6	0.51	NO	1.02	10.090	34.347	34.35	1.009	1.009	175.17	88.4	0.363	

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-13a.qld

Last Altered: Wednesday, May 20, 2020 15:49:13 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 16:00:15 Pacific Daylight Time

Name: 200518R2_13, Date: 18-May-2020, Time: 23:17:11, ID: 2000950-13 PDI-158SC-A-03-04-200423 12.06, Description: PDI-158SC-A-03-04-200423

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
31	13C-1,2,3,7,8,9-HxCDF	1.20e6	0.50	NO	0.845	10.090	35.239	35.24	1.035	1.035	175.19	88.4	0.439	
32	13C-1,2,3,4,6,7,8-HpCDF	1.13e6	0.43	NO	0.771	10.090	36.971	36.98	1.086	1.086	181.01	91.3	0.345	
33	13C-1,2,3,4,7,8,9-HpCDF	7.75e5	0.43	NO	0.482	10.090	38.983	38.98	1.145	1.145	198.38	100	0.552	
34	13C-OCDF	2.06e6	0.88	NO	0.669	10.090	41.556	41.57	1.221	1.221	381.11	96.1	0.286	
35	37Cl-2,3,7,8-TCDD	5.76e5			1.10	10.090	26.076	26.08	1.028	1.028	58.987	74.4	0.0246	
36	13C-1,2,3,4-TCDD	1.76e6	0.79	NO	1.00	10.090	25.350	25.38	1.000	1.000	198.21	100	0.187	
37	13C-1,2,3,4-TCDF	2.50e6	0.79	NO	1.00	10.090	23.560	23.61	1.000	1.000	198.21	100	0.184	
38	13C-1,2,3,4,6,9-HxCDF	1.61e6	0.51	NO	1.00	10.090	34.000	34.04	1.000	1.000	198.21	100	0.371	
39	39 Total Tetra-Dioxins				0.947	10.090	24.620		0.000		0.12209		0.0442	0.122
40	40 Total Penta-Dioxins				0.942	10.090	29.960		0.000		0.066574		0.0580	0.0666
41	41 Total Hexa-Dioxins				0.915	10.090	33.635		0.000		0.73000		0.0531	0.730
42	42 Total Hepta-Dioxins				0.898	10.090	37.640		0.000		1.3896		0.0917	2.01
43	43 Total Tetra-Furans				0.787	10.090	23.610		0.000		0.00000		0.0147	0.0424
44	44 1st Func. Penta-Furans				0.910	10.090	27.090		0.000		0.00000		0.00733	0.0395
45	45 Total Penta-Furans				0.910	10.090	29.275		0.000		0.073849		0.0369	0.158
46	46 Total Hexa-Furans				0.922	10.090	33.555		0.000		0.17322		0.0378	0.214
47	47 Total Hepta-Furans				0.871	10.090	37.835		0.000		0.13625		0.0426	0.297

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-13a.qld

Last Altered: Wednesday, May 20, 2020 15:49:13 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 16:00:15 Pacific Daylight Time

Method: Untitled 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_13, Date: 18-May-2020, Time: 23:17:11, ID: 2000950-13 PDI-158SC-A-03-04-200423 12.06, Description: PDI-158SC-A-03-04-200423

Tetra-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Tetra-Dioxins	23.79	4.657e3	7.011e3	3.881e2	4.810e2	0.81	NO	8.691e2	0.12209	0.12209	0.0442

Penta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Dioxins	29.37	3.631e3	6.412e3	1.590e2	2.916e2	0.55	NO	4.506e2	0.066574	0.066574	0.0580

Hexa-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Dioxins	33.03	2.654e4	2.608e4	1.624e3	1.439e3	1.13	NO	3.063e3	0.54354	0.54354	0.0531
2	Total Hexa-Dioxins	33.85	1.030e4	7.935e3	5.933e2	4.575e2	1.30	NO	1.051e3	0.18646	0.18646	0.0531

Hepta-Dioxins

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hepta-Dioxins	37.38	3.731e4	3.816e4	3.233e3	3.121e3	1.04	NO	6.355e3	1.3896	1.3896	0.0917
2	1,2,3,4,6,7,8-HpCDD	38.41	2.090e4	1.850e4	1.727e3	1.382e3	1.25	YES	3.109e3	0.00000	0.61658	0.0917

Tetra-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	2,3,7,8-TCDF	25.15	2.723e3	3.387e3	1.277e2	2.038e2	0.63	YES	3.315e2	0.00000	0.042372	0.0147

Penta-Furans function 1

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	1st Func. Penta-Furans	27.22	5.249e3	2.503e3	2.836e2	1.330e2	2.13	YES	0.000e0	0.00000	0.039493	0.00733

Vista Analytical Laboratory

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-13a.qld

Last Altered: Wednesday, May 20, 2020 15:49:13 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 16:00:15 Pacific Daylight Time

Name: 200518R2_13, Date: 18-May-2020, Time: 23:17:11, ID: 2000950-13 PDI-158SC-A-03-04-200423 12.06, Description: PDI-158SC-A-03-04-200423

Penta-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Penta-Furans	28.82	3.805e3	3.832e3	2.559e2	1.954e2	1.31	YES	0.000e0	0.00000	0.049039	0.0369
2	1,2,3,7,8-PeCDF	29.83	7.264e3	4.231e3	4.119e2	2.344e2	1.76	NO	6.463e2	0.073849	0.073849	0.0368
3	2,3,4,7,8-PeCDF	30.82	4.823e3	3.431e3	1.918e2	1.581e2	1.21	YES	3.498e2	0.00000	0.035290	0.0349

Hexa-Furans

	Name	RT	m1 Height	m2 Height	m1 Resp	m2 Resp	RA	n/y	Resp	Conc.	EMPC	DL
1	Total Hexa-Furans	32.64	3.600e3	3.036e3	1.475e2	1.443e2	1.02	YES	0.000e0	0.00000	0.041103	0.0180
2	Total Hexa-Furans	33.20	2.992e3	2.473e3	1.617e2	1.391e2	1.16	NO	3.007e2	0.046380	0.046380	0.0378
3	1,2,3,4,7,8-HxCDF	33.64	8.013e3	6.761e3	4.160e2	3.590e2	1.16	NO	7.750e2	0.12684	0.12684	0.0356

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	36.97	4.833e3	4.509e3	3.390e2	3.381e2	1.00	NO	6.771e2	0.13625	0.13625	0.0383
2	Total Hepta-Furans	37.58	5.723e3	5.119e3	3.422e2	4.073e2	0.84	YES	0.000e0	0.00000	0.16028	0.0426

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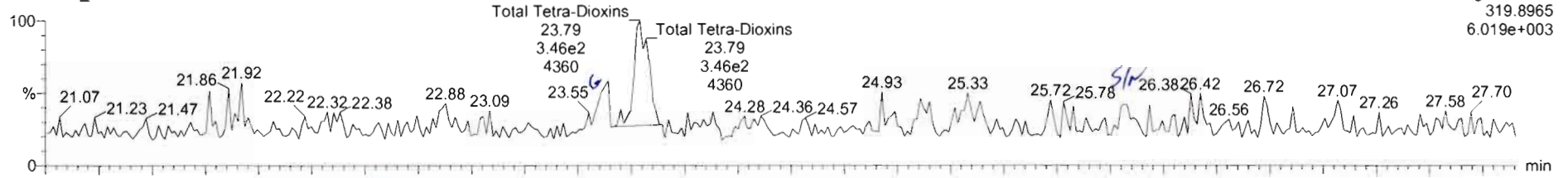
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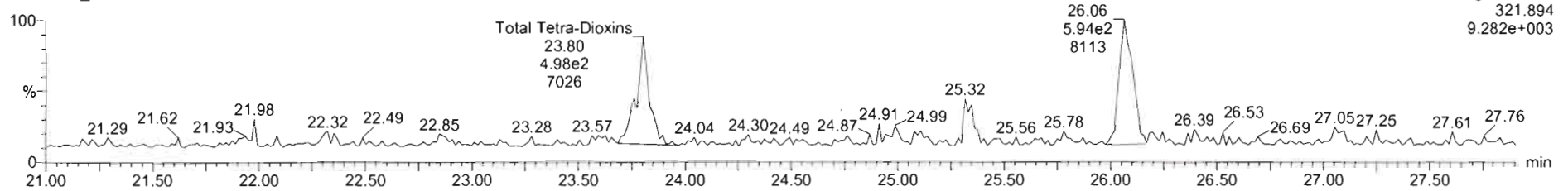
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2,3,7,8-TCDD

200518R2_13

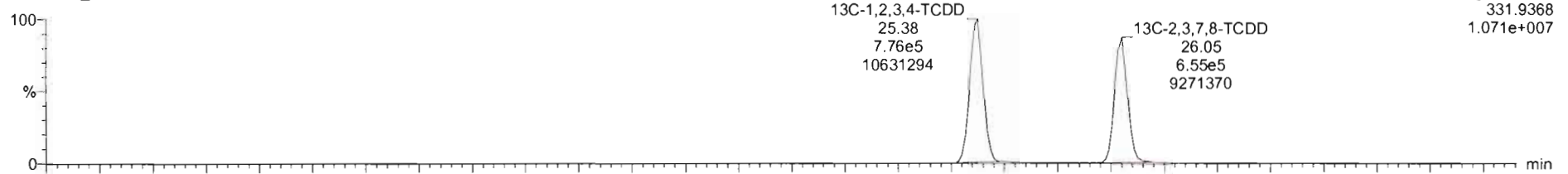


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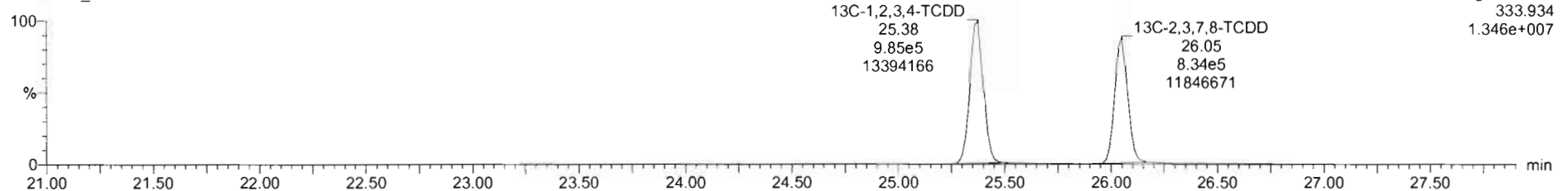


13C-2,3,7,8-TCDD

200518R2_13



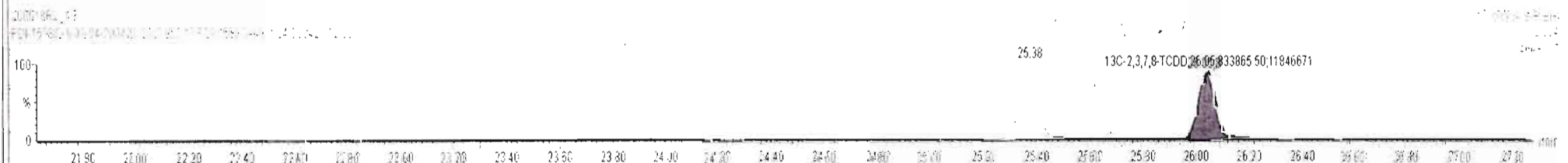
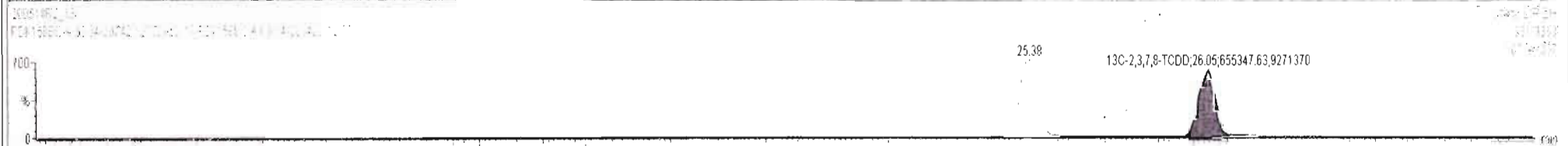
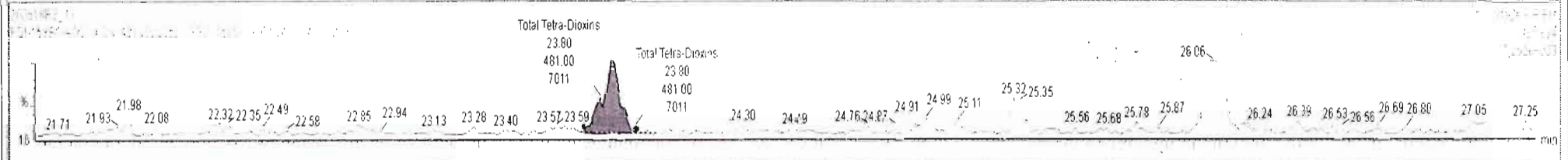
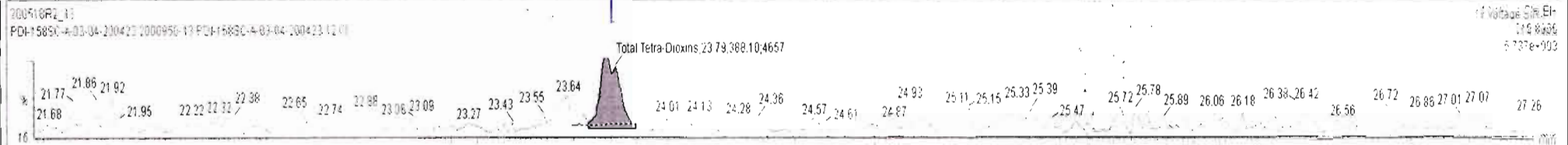
200518R2_13



200518R2_13 - 2000950-13 PDI-158SC-A-03-04-200423 12.06 - PDI-158SC-A-03-04-200423

Name	Resp	RA	n/y	RF	wMol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.090			0.122	0.0442	0.122	
40 Total Penta-Dioxins				0.9425	10.090				0.0245		
41 Total Hexa-Dioxins				0.9145	10.090			0.554	0.0531	0.665	
42 Total Hepta-Dioxins				0.8975	10.090			1.38	0.0917	2.01	

Name	RT	m1 Resp	m2 Resp	FA	n/y	EMPC	Conc.
1 Total Tetra-Dioxins	23.78	3.891e2	4.810e2	0.61	NO	0.12209	0.12209



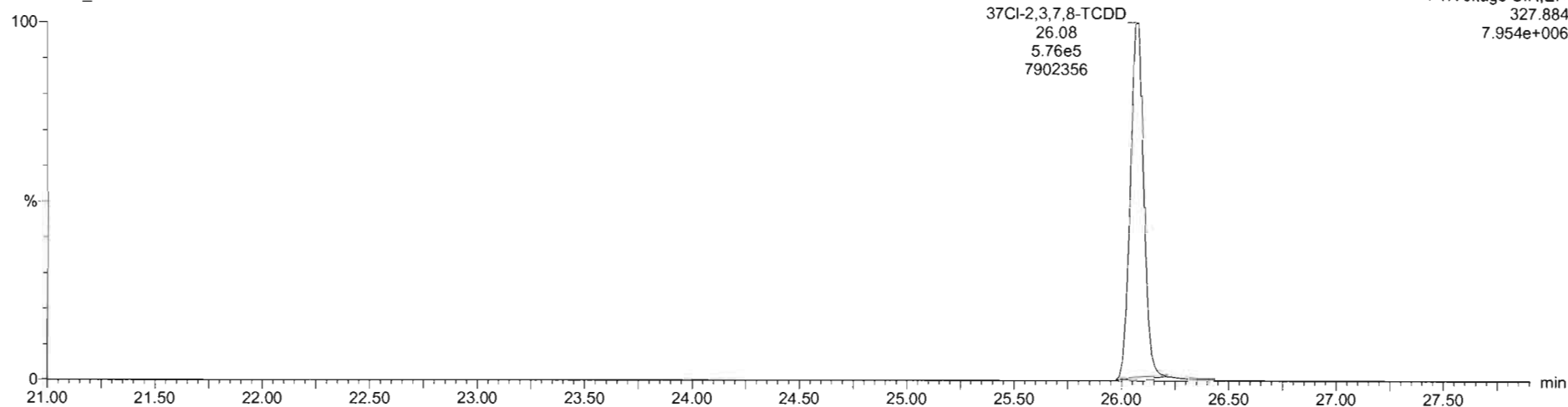
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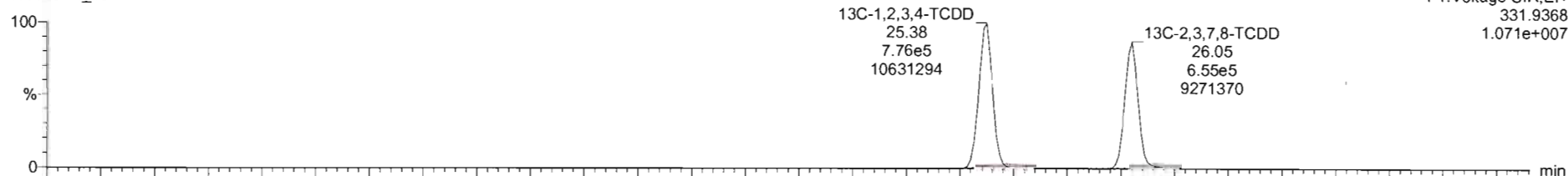
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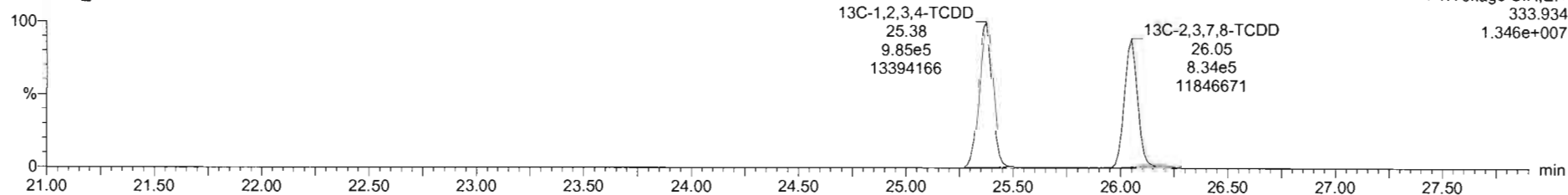


13C-1,2,3,4-TCDD

200518R2_13



200518R2_13



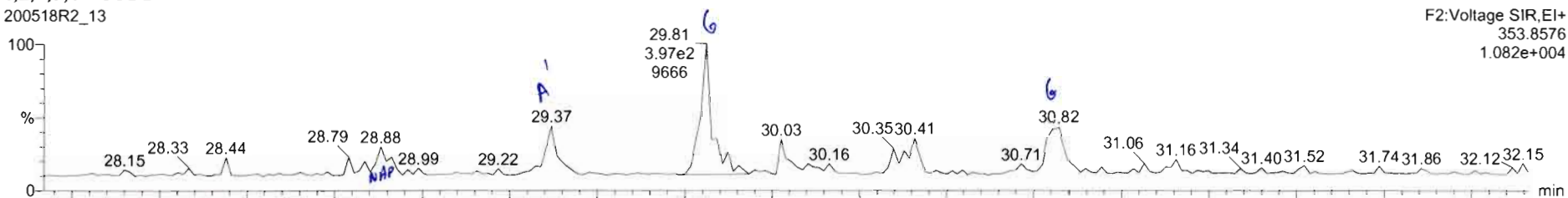
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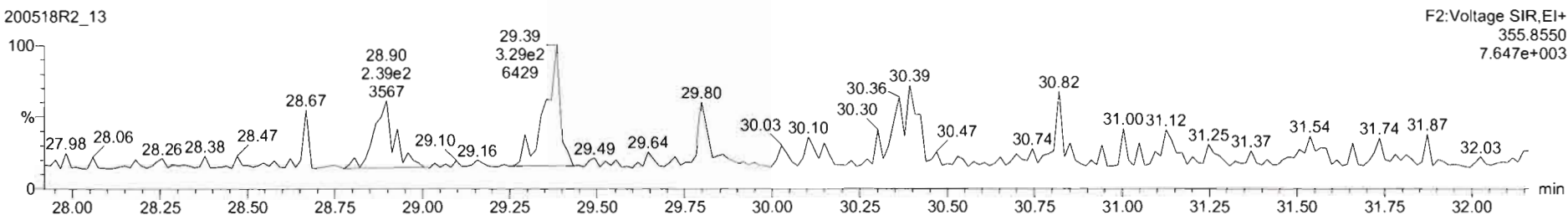
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1,2,3,7,8-PeCDD

200518R2_13

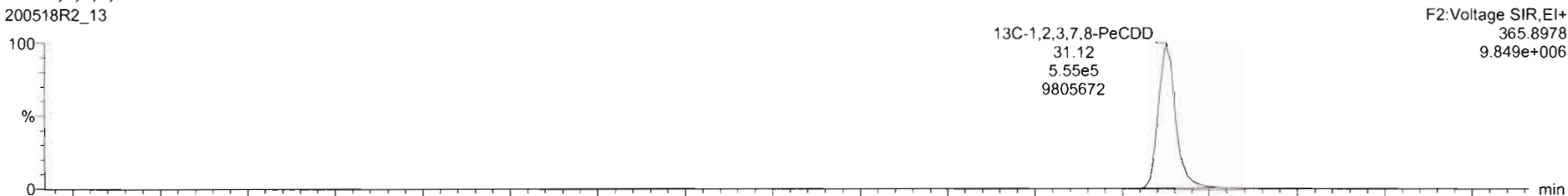


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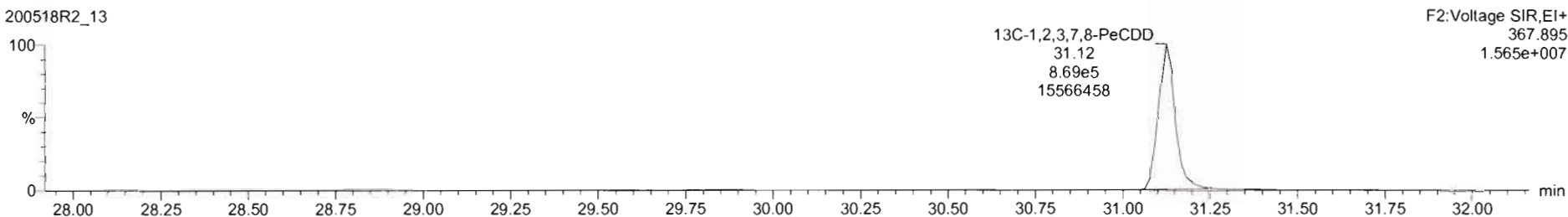


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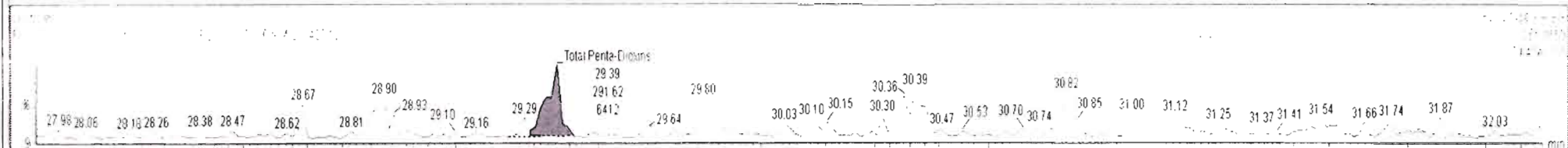
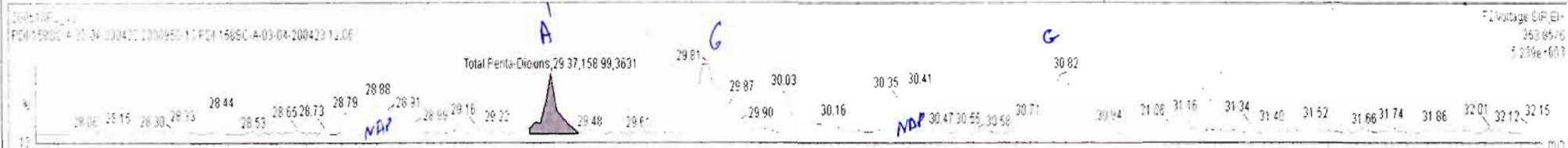


200518R2_13



Name	Resp	RA	rvy	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.090			0.122		0.0442	0.122
40 Total Penta-Dioxins				0.9425	10.090			0.0666		0.0580	0.0666
41 Total Hexa-Dioxins				0.9145	10.090			0.554		0.0531	0.665
42 Total Hepta-Dioxins				0.8979	10.090			1.39		0.0917	2.01

Name	RT	m1 Resp	m2 Resp	RA	rvy	EMPC	Conc.
1 Total Penta-Dioxins	29.37	1.590e2	2.916e2	0.55	NO	0.066674	0.066674



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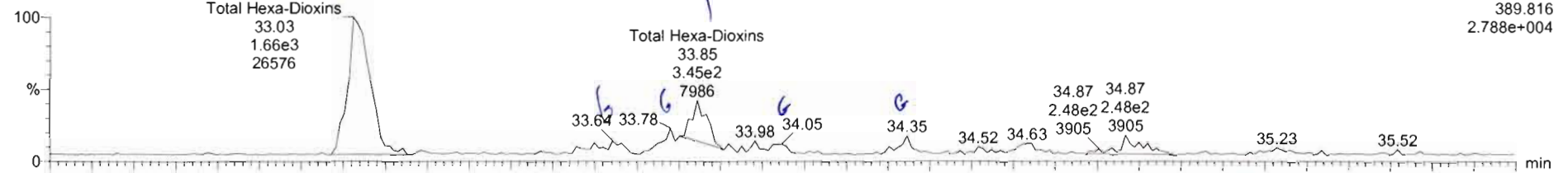
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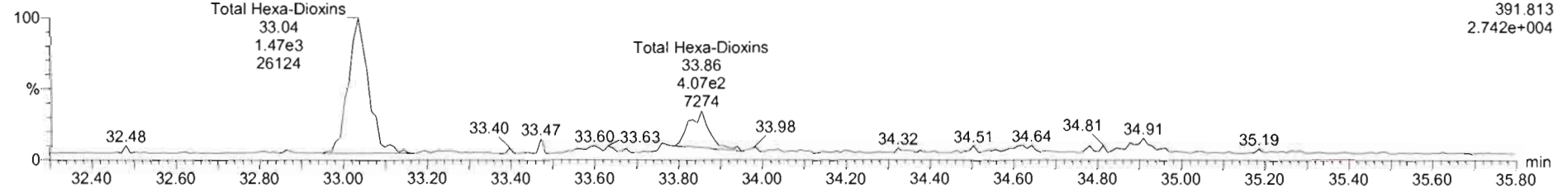
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1,2,3,4,7,8-HxCDD

200518R2_13

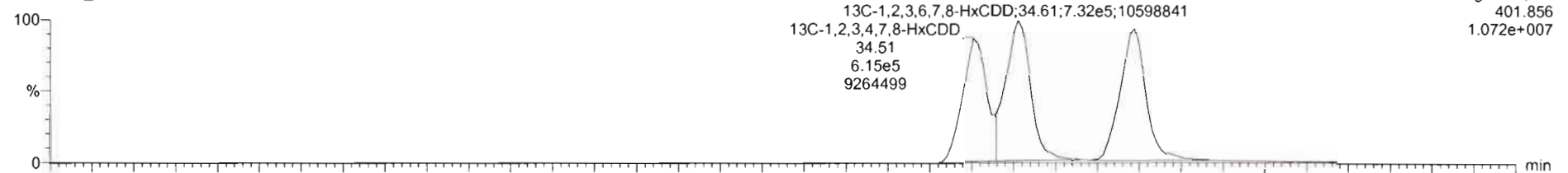


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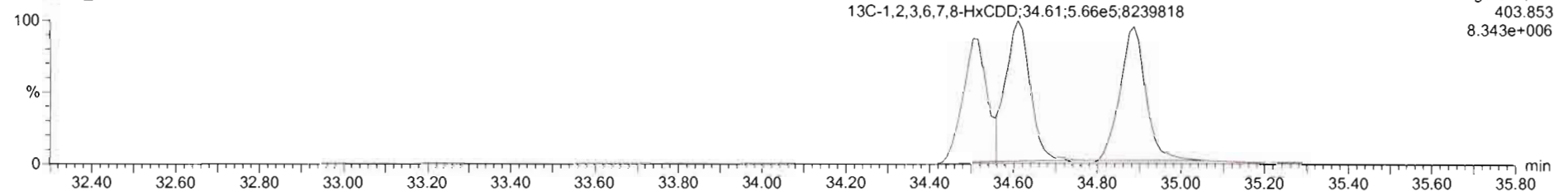


13C-1,2,3,4,7,8-HxCDD

200518R2_13



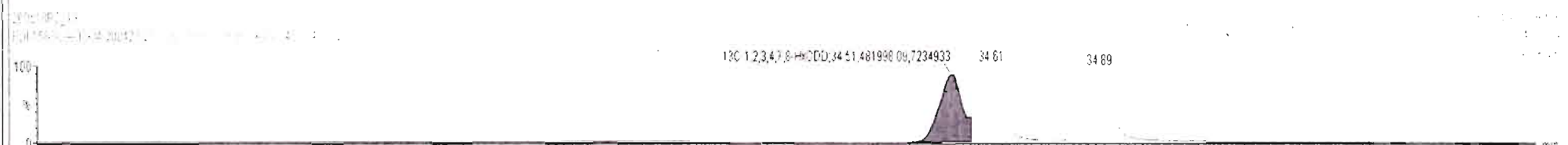
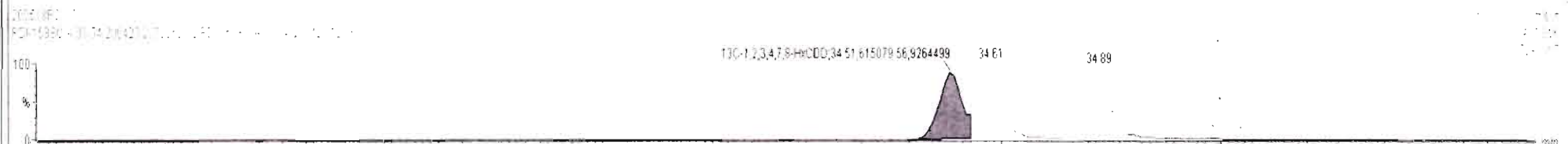
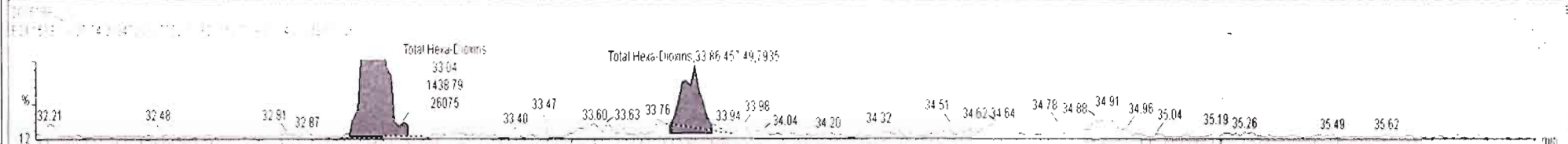
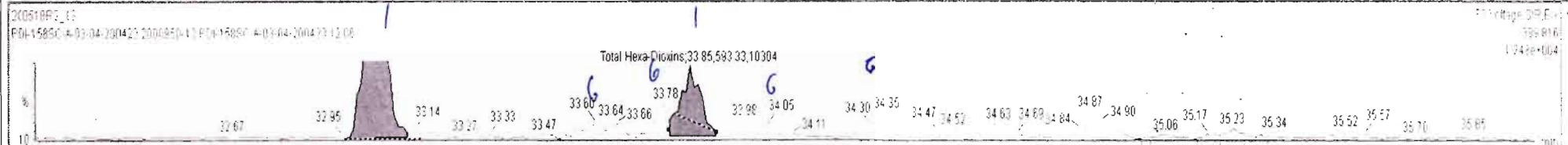
200518R2_13



200518R2_13 - 2000950-13 PDI-158SC-A-03-04-200423 12.06 - PDI-158SC-A-03-04-200423

Name	Resp	RA	n/y	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
39 Total Tetra-Dioxins				0.9475	10.090			0.122	0.0442	0.122	
40 Total Penta-Dioxins				0.9425	10.090			0.0666	0.0560	0.0666	
41 Total Hexa-Dioxins				0.9145	10.090			0.730	0.0531	0.730	
42 Total Hepta-Dioxins				0.8979	10.090			1.39	0.0917	2.01	

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc
1 Total Hexa-Dioxins	33.03	1.624e3	1.439e3	1.13	NO	0.54354	0.54354
2 Total Hexa-Dioxins	33.85	5.933e2	4.575e2	1.30	NO	0.18646	0.18646



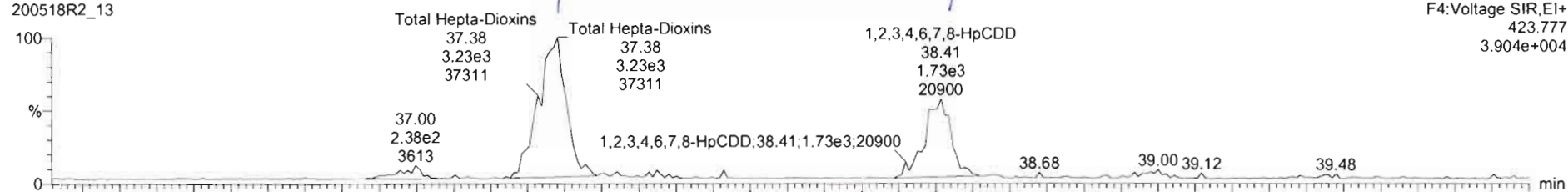
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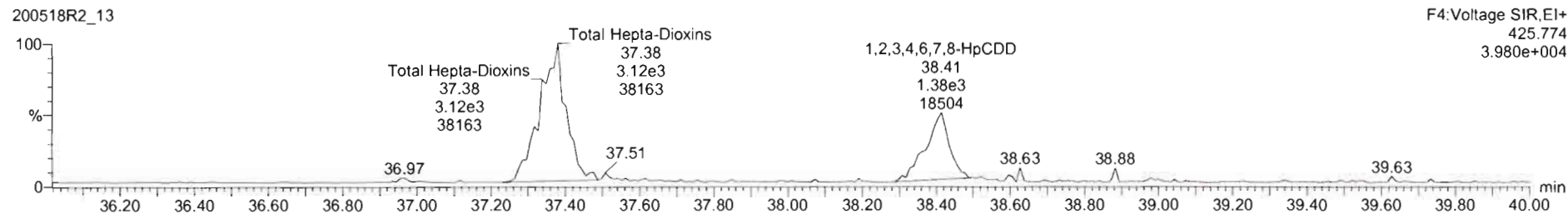
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1,2,3,4,6,7,8-HpCDD

200518R2_13

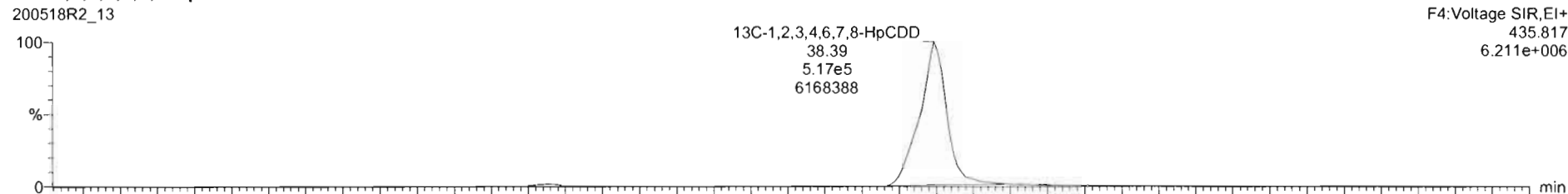


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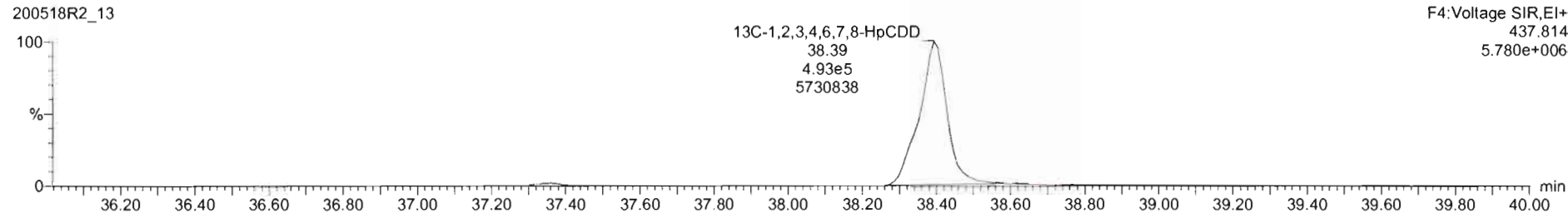


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200518R2_13



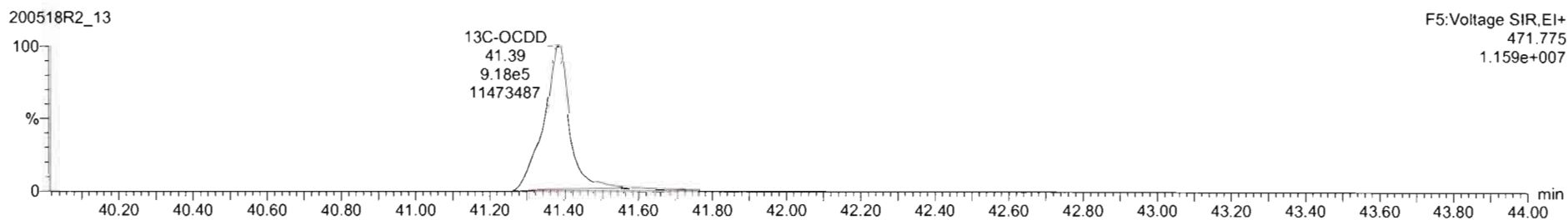
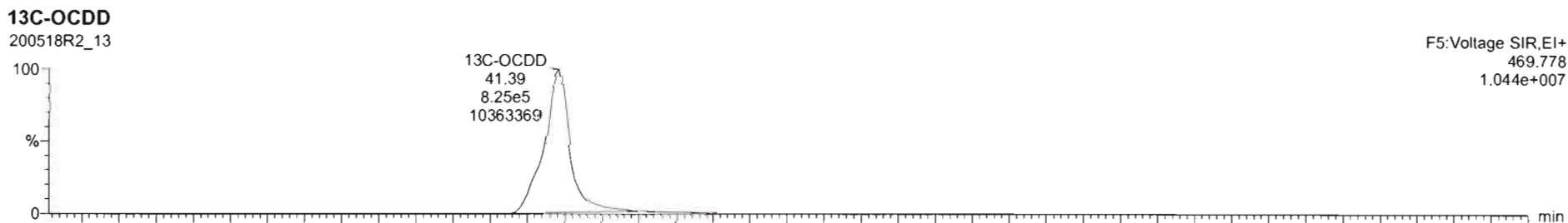
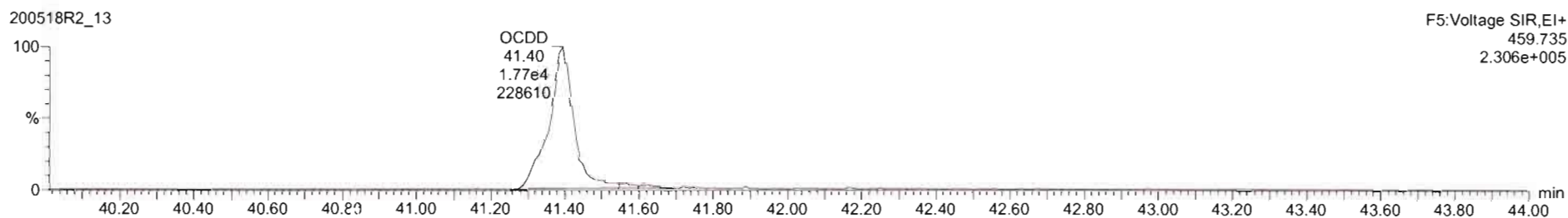
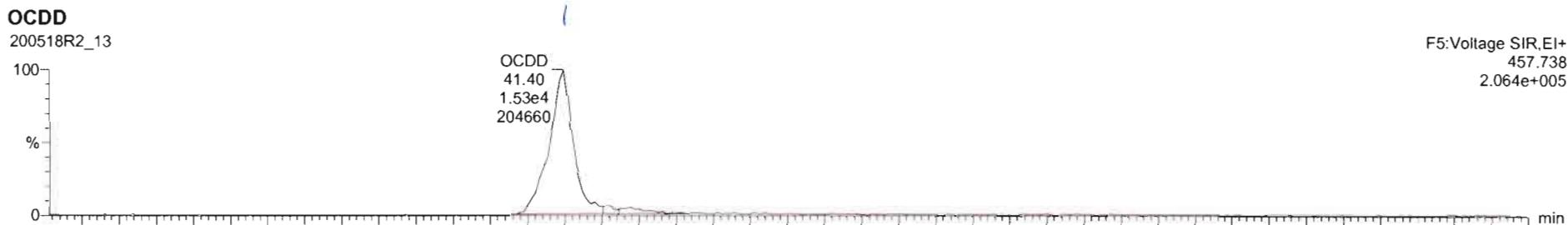
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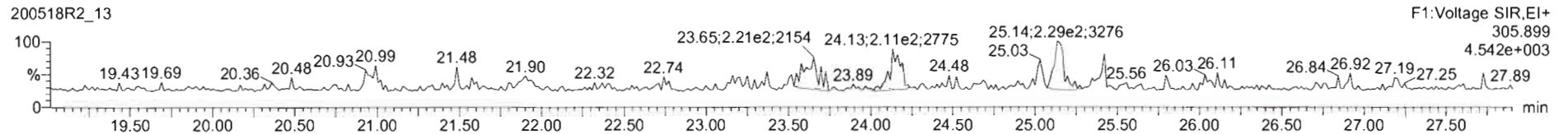
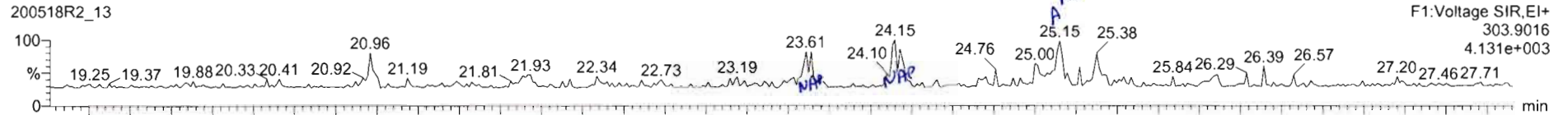


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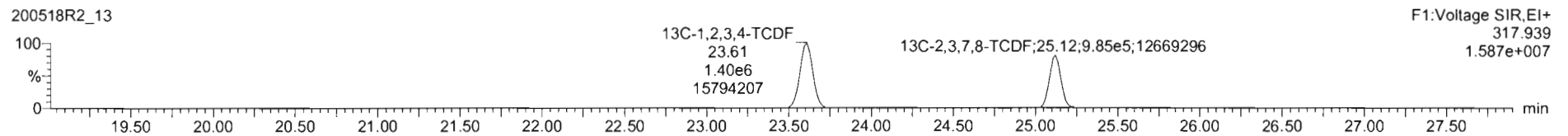
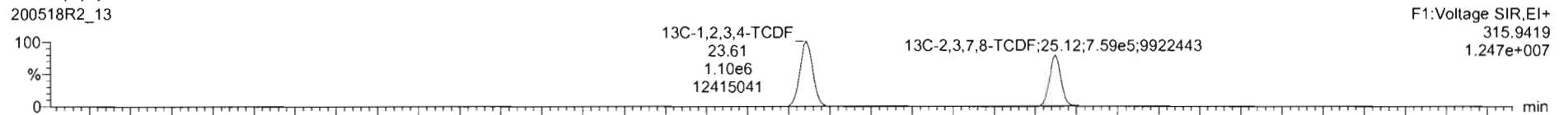
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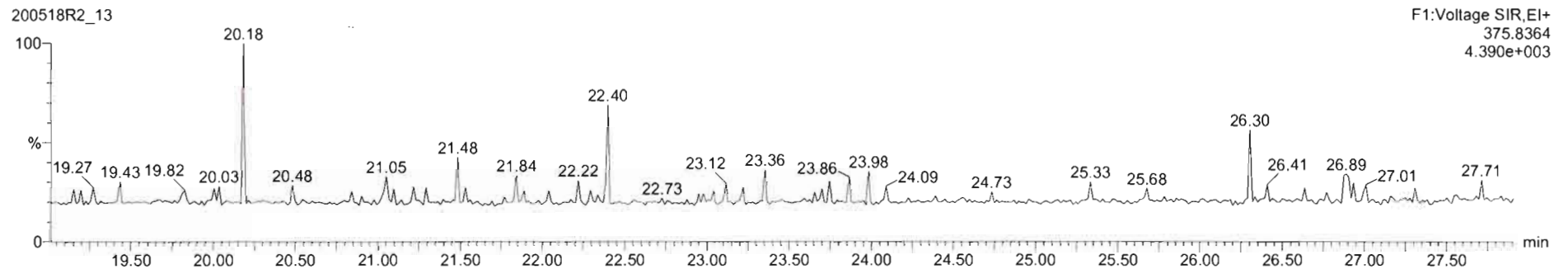
2,3,7,8-TCDF



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



DPE1

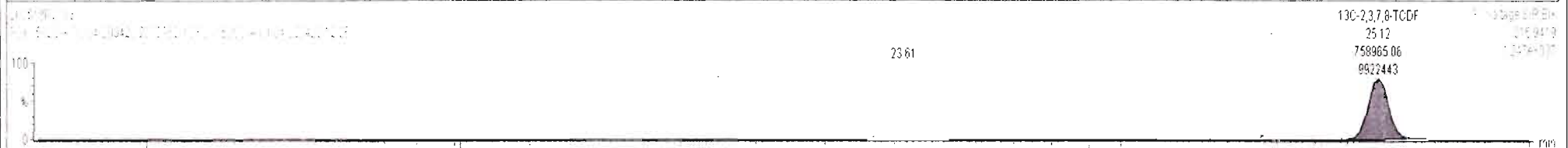
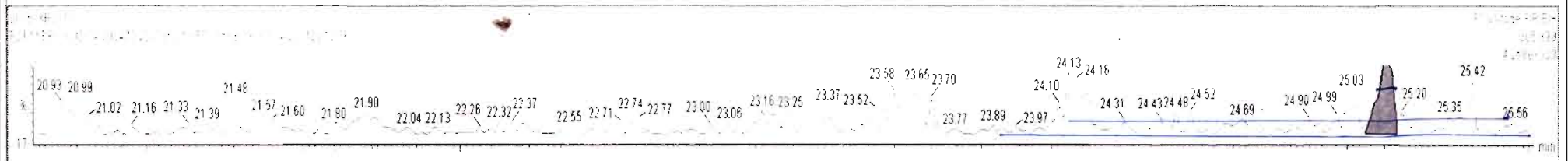
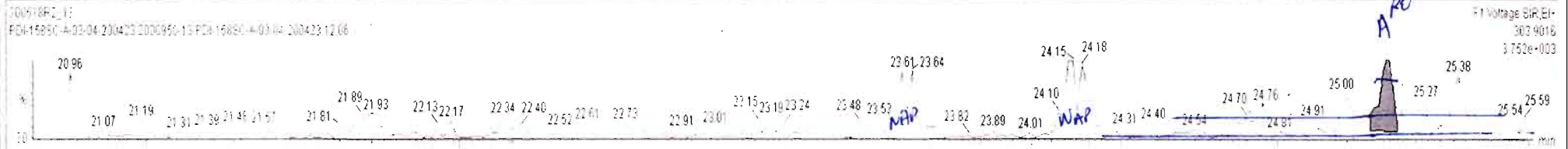




200518R2_13 - 2000950-13 PDI-158SC-A-03-04-200423 12.06 - PDI-158SC-A-03-04-200423

Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.090			0.000		0.0147	0.0424
44 1st Func. Penta-Furans				0.9102	10.090			0.000		0.00733	0.0395
45 Total Penta-Furans				0.9102	10.090			0.0730		0.0369	0.158
46 Total Hexa-Furans				0.9217	10.090			0.173		0.0378	0.214

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 2,3,7,8-TCDF	25.15	1.277e2	2.038e2	0.63	YES	0.042372	0.00000



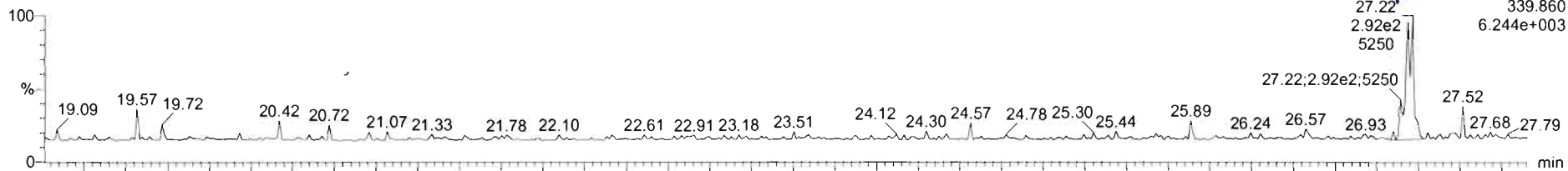
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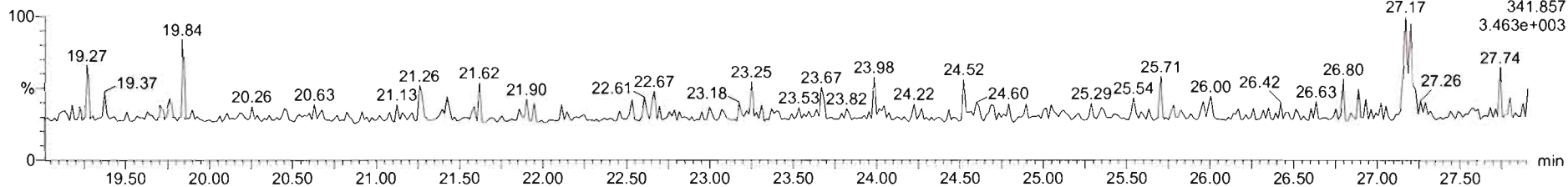
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1st Func. Penta-Furans

200518R2_13

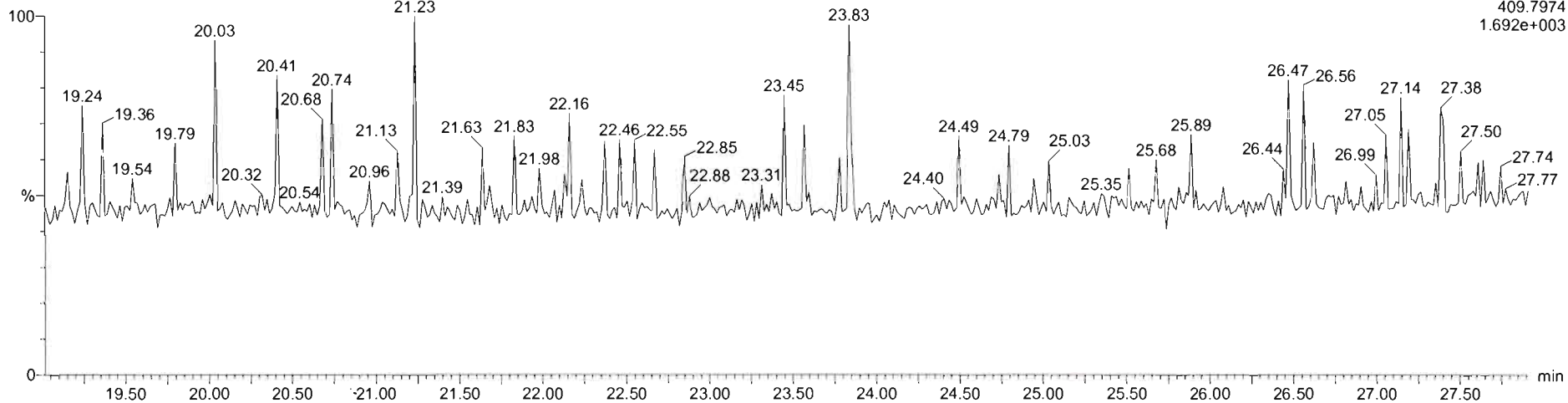


200518R2_13



DPE6

200518R2_13



Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc	%Rec	DL	EMPC
43 Total Tetra-Furans				0.7871	10.090					0.0147	
44 1st Func. Penta-Furans				0.9102	10.090			0.000		0.00733	0.0395
45 Total Penta-Furans				0.9102	10.090			0.140		0.0359	0.140
46 Total Hexa-Furans				0.9217	10.090					0.0180	

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1st Func. Penta-Furans	27.22	2.636e2	1.330e2	213	YES	0.039493	0.00000



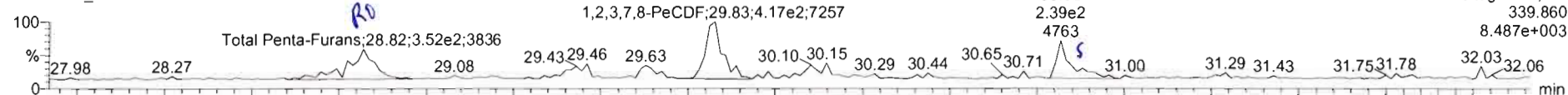
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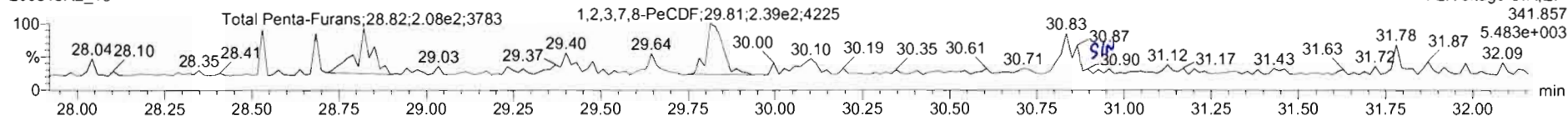
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1,2,3,7,8-PeCDF

200518R2_13

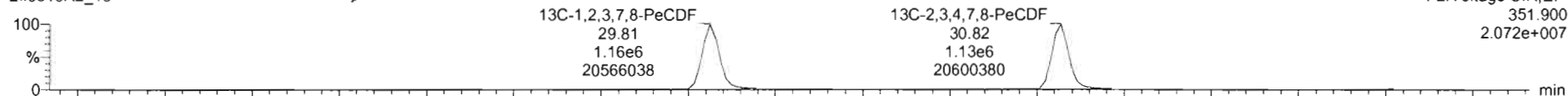


200518R2_13

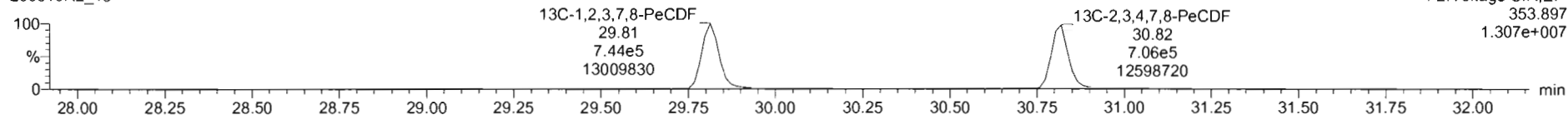


13C-1,2,3,7,8-PeCDF

200518R2_13

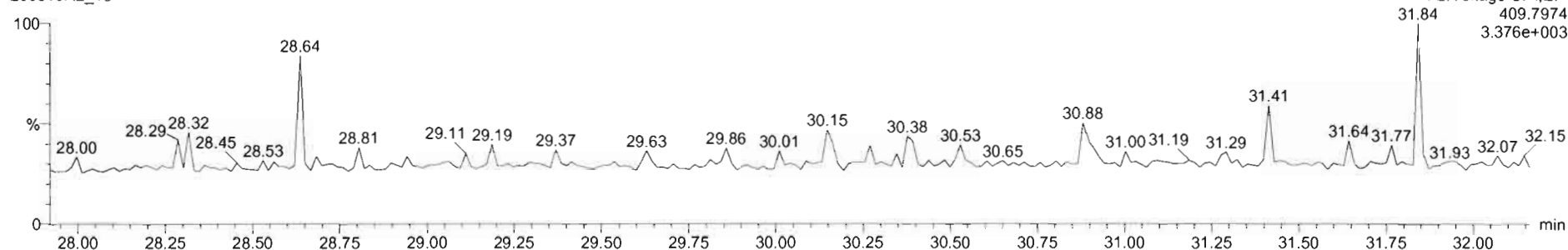


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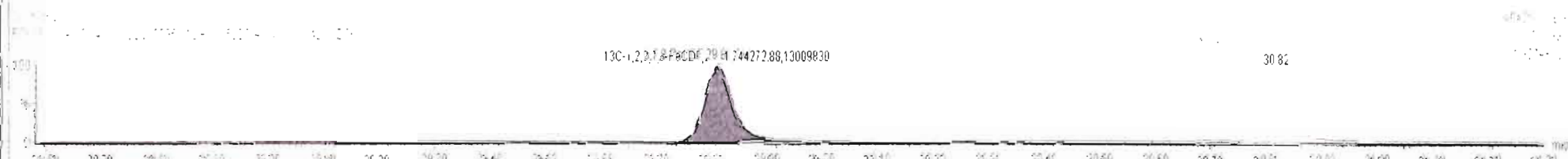
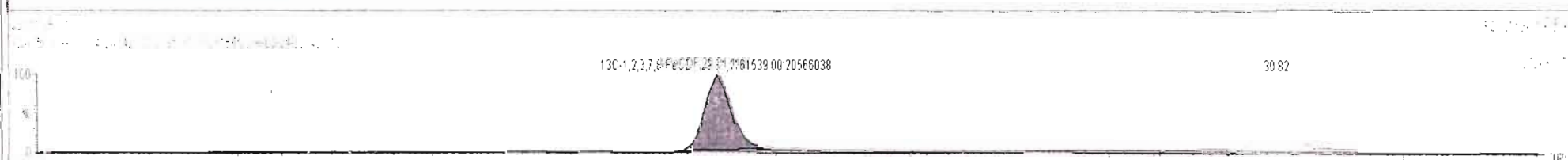
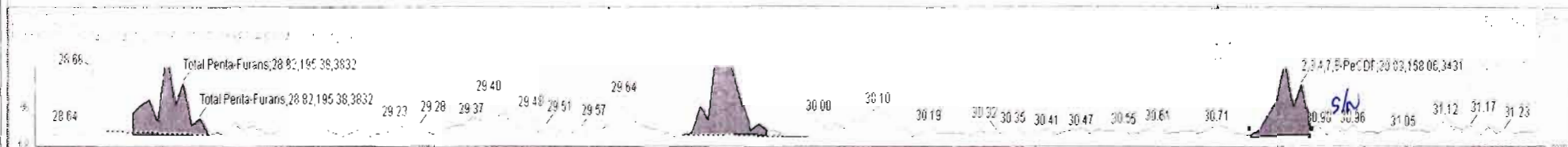
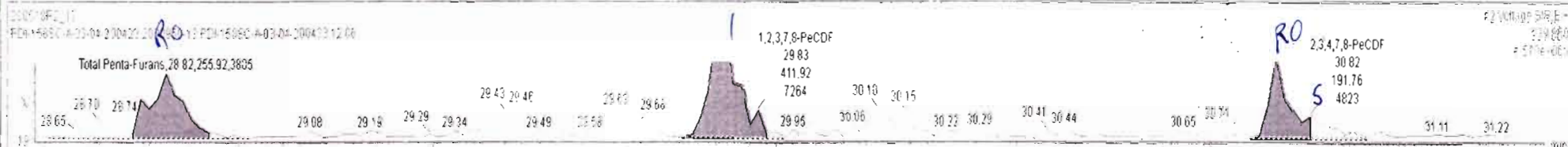
DPE2

200518R2_13



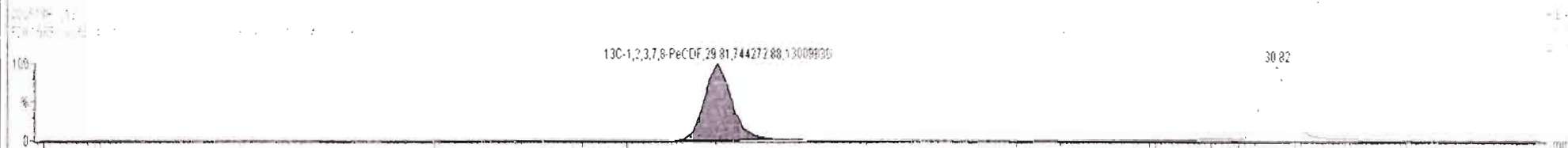
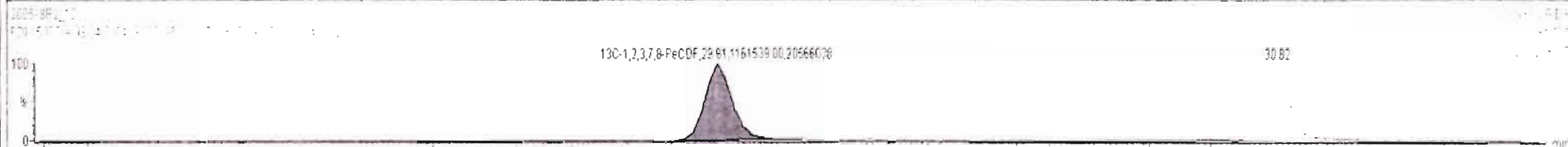
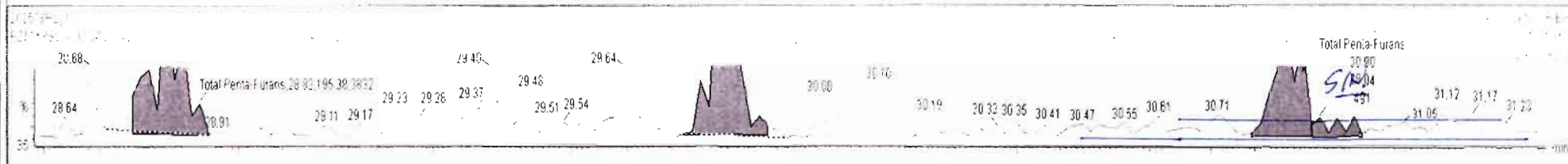
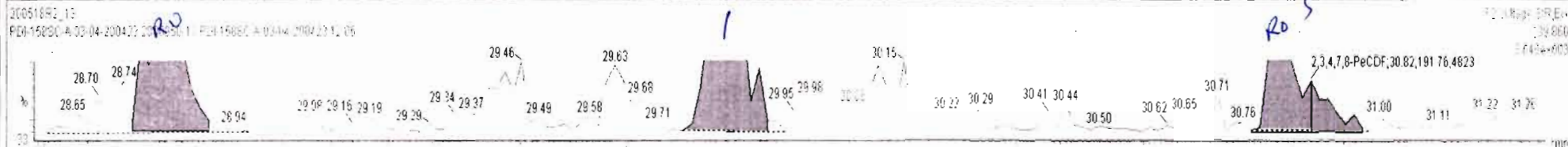
Name	Resp	RA	n/y	RRF	wtVol	RT	RET	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.090			0.0738	0.0369	0.158	
46 Total Hexa-Furans				0.9217	10.090				0.0186		
47 Total Hepta-Furans				0.6712	10.090			0.000	0.0266	0.158	
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	n/y	EMPC	Conc.
1 Total Penta-Furans	28.82	2.559e2	1.954e2	1.31	YES	0.049039	0.00000
2 1,2,3,7,8-PeCDF	29.83	4.119e2	2.344e2	1.76	NO	0.073849	0.073849
3 2,3,4,7,8-PeCDF	30.82	1.918e2	1.561e2	1.21	YES	0.035290	0.00000



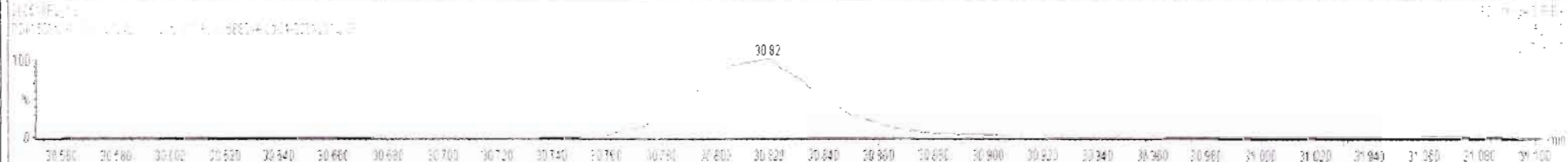
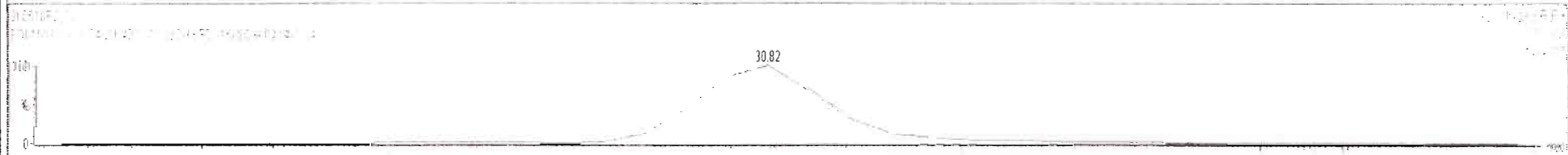
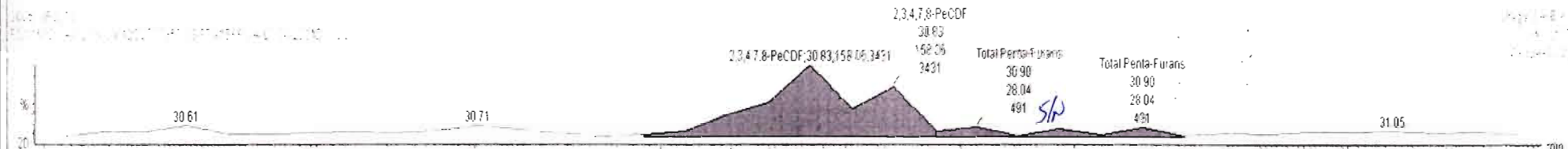
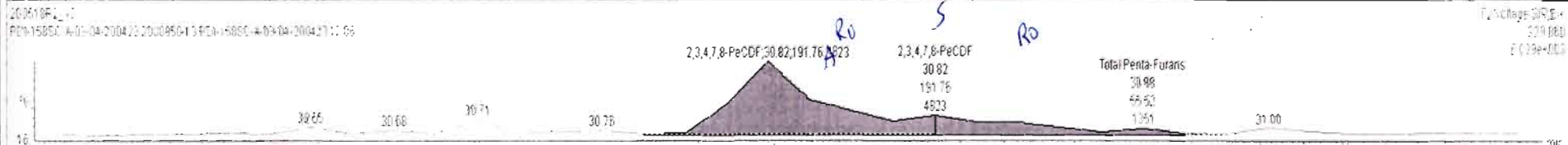
XI	Name	Resp	RA	nly	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45	Total Penta-Furans				0.9102	10.090			0.0738		0.0369	0.167
46	Total Hexa-Furans				0.9217	10.090					0.0180	
47	Total Hepta-Furans				0.8712	10.090			0.0000		0.0285	0.159
48	PFK1											

XI	Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1	Total Penta-Furans	28.82	2.559e2	1.954e2	1.31	YES	0.049039	0.00000
2	1,2,3,7,8-PeCDF	29.83	4.119e2	2.344e2	1.76	NO	0.073849	0.073849
3	2,3,4,7,8-PeCDF	30.82	1.918e2	1.581e2	1.21	YES	0.035290	0.00000
4	Total Penta-Furans	30.88	5.552e1	2.804e1	1.98	YES	0.00832	0.00000



Name	Resp	RA	nly	RF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.090			0.0738		0.0369	0.167
46 Total Hepta-Furans				0.9217	10.090					0.0180	
47 Total Hepta-Furans				0.6712	10.090			0.009		0.0265	0.159
48 PFY1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1 Total Penta-Furans	28.82	2.559e2	1.954e2	1.31	YES	0.049039	0.00000
2 1,2,3,7,8-PeCDF	29.83	4.119e2	2.344e2	1.76	NO	0.073849	0.073849
3 2,3,4,7,8-PeCDF	30.82	1.918e2	1.581e2	1.21	YES	0.035290	0.00000
4 Total Penta-Furans	30.68	5.552e1	2.804e1	1.98	YES	0.00832	0.00000

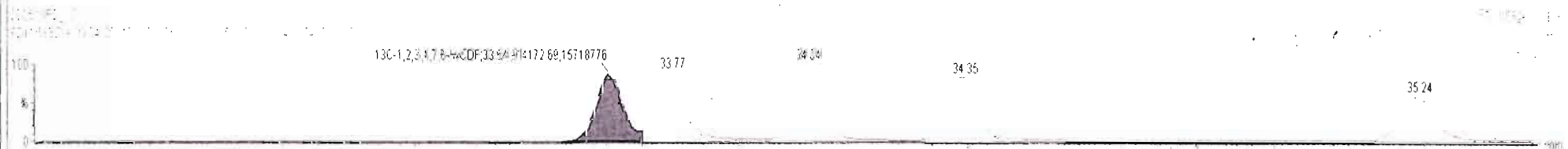




200518R2_13 - 2000950-13.PDI-158SC-A-03-04-200423 12.06 - PDI-158SC-A-03-04-200423

Name	Resp	RA	nly	FPF	wt/Net	RT	RRT	Conc.	%Rec	DL	EMPC
45 Total Penta-Furans				0.9102	10.090			0.0738		0.0369	0.158
46 Total Hexa-Furans				0.9217	10.090			0.173		0.0378	0.214
47 Total Hepta-Furans				0.6712	10.090			0.090		0.0266	0.159
48 PFK1											

Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 Total Hexa-Furans	32.64	1.475e2	1.443e2	1.02	YES	0.041103	0.00000
2 Total Hexa-Furans	33.20	1.617e2	1.391e2	1.16	NO	0.046380	0.046380
3 1,2,3,4,7,8-HxCDF	33.64	4.160e2	3.590e2	1.16	NO	0.12664	0.12664



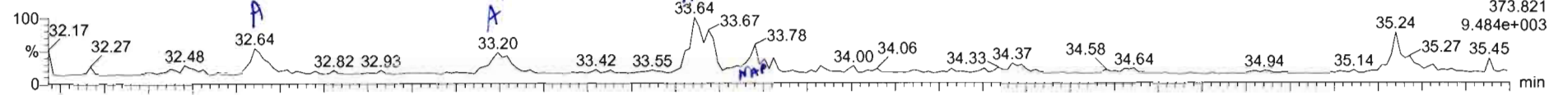
Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

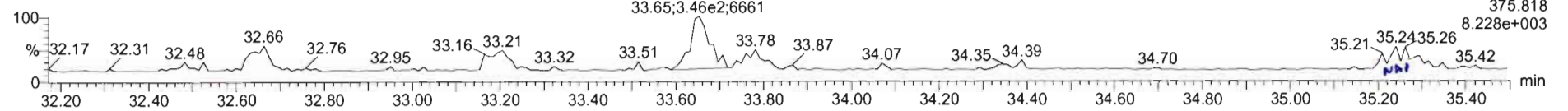
Name: 200518R2_13, Date: 18-May-2020, Time: 23:17:11, ID: 2000950-13 PDI-158SC-A-03-04-200423 12.06, Description: PDI-158SC-A-03-04-200423

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

200518R2_13

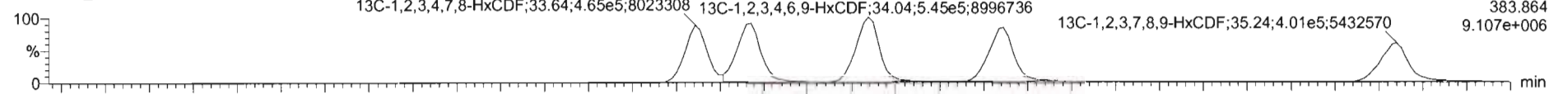


200518R2_13

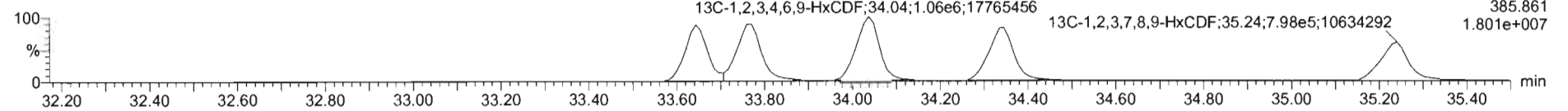


13C-1,2,3,4,7,8-HxCDF

200518R2_13

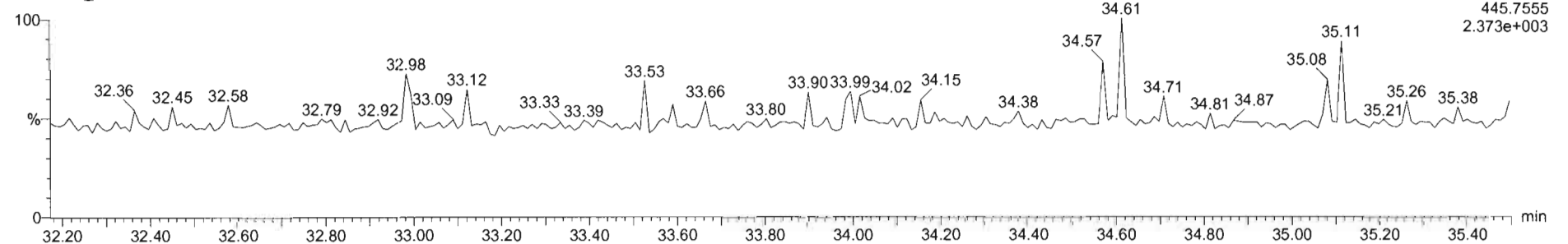


200518R2_13



DPE3

200518R2_13



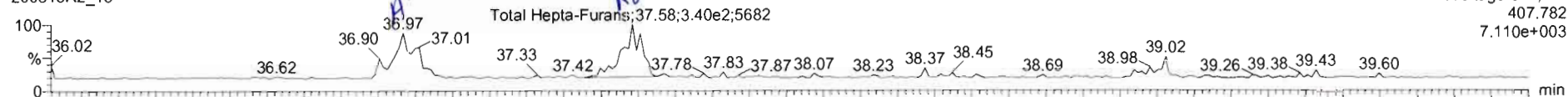
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Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

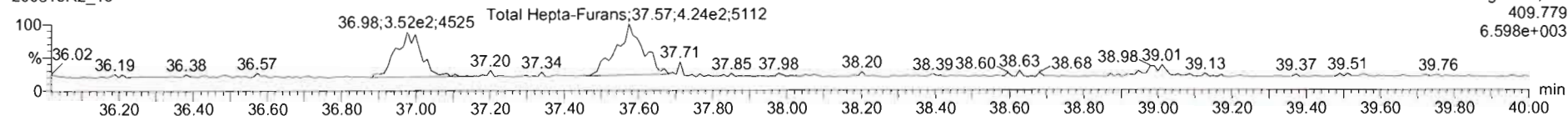
Name: 200518R2_13, Date: 18-May-2020, Time: 23:17:11, ID: 2000950-13 PDI-158SC-A-03-04-200423 12.06, Description: PDI-158SC-A-03-04-200423

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

200518R2_13



200518R2_13

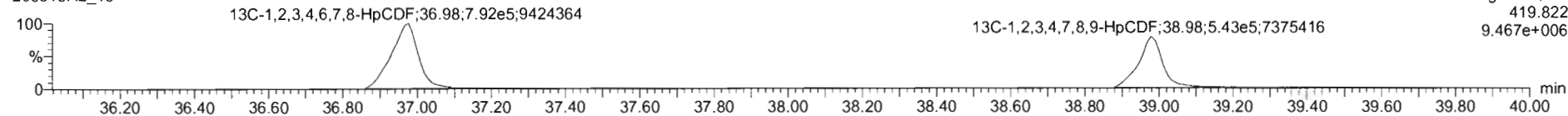


13C-1,2,3,4,6,7,8-HpCDF

200518R2_13

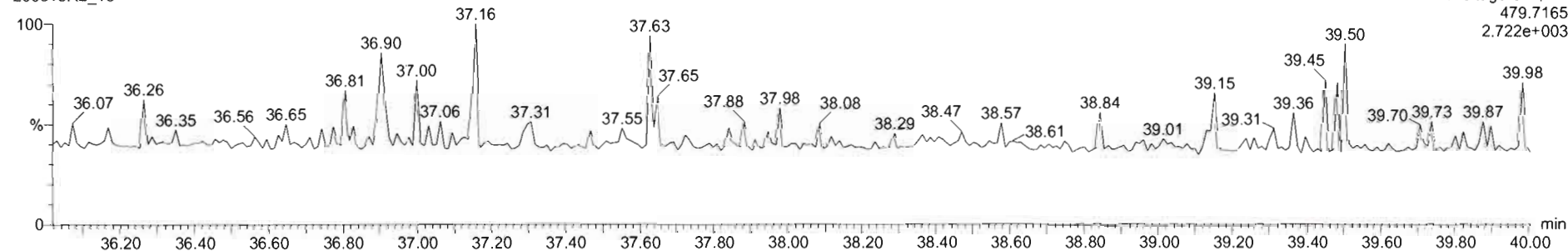


200518R2_13



DPE4

200518R2_13



Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc	%Rec	DL	EMPC
45 Total Peaks-Furans				0.9102	10.090			0.0739	0.0369	0.158	
46 Total Hexa-Furans				0.9217	10.090			0.173	0.0378	0.214	
47 Total Hepta-Furans				0.8712	10.090			0.136	0.0426	0.297	
48 PFK1											

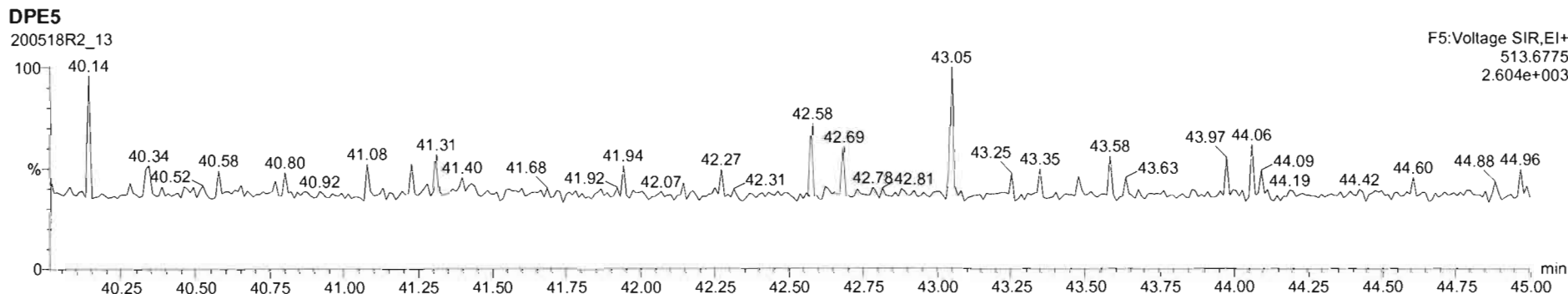
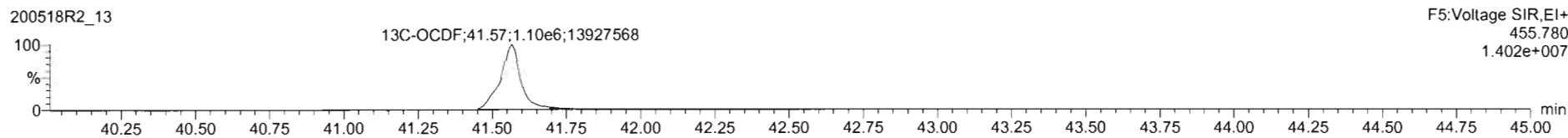
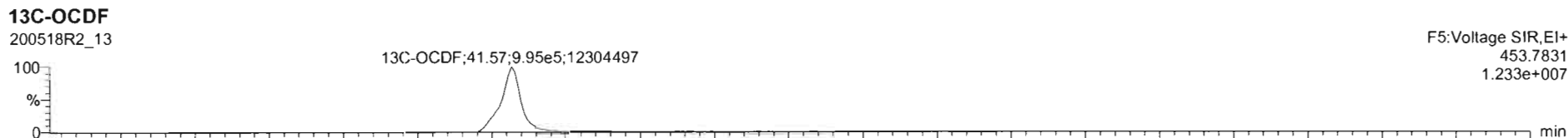
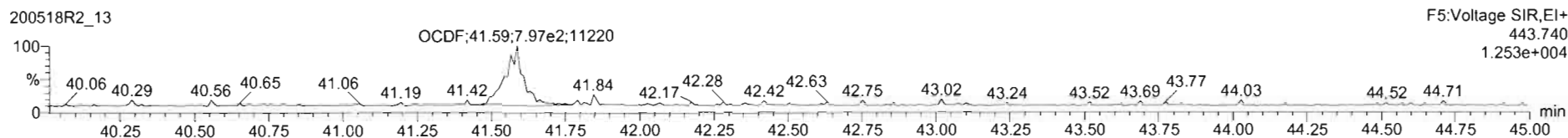
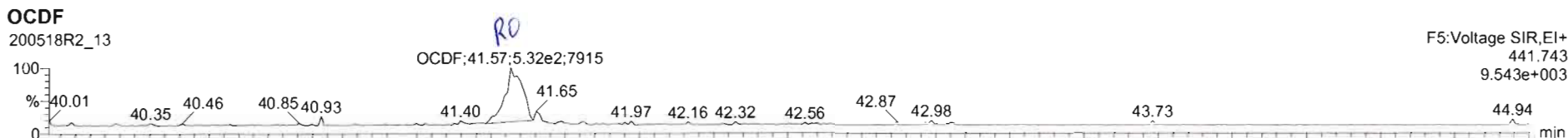
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc
1 1,2,3,4,6,7,8-HpCDF	36.97	3.390e2	3.361e2	1.00	NO	0.13625	0.13625
2 Total Hepta-Furans	37.58	3.422e2	4.073e2	0.84	YES	0.18028	0.00000



Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

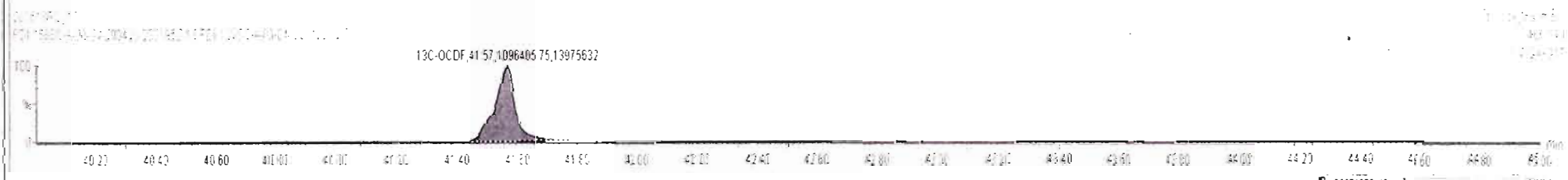
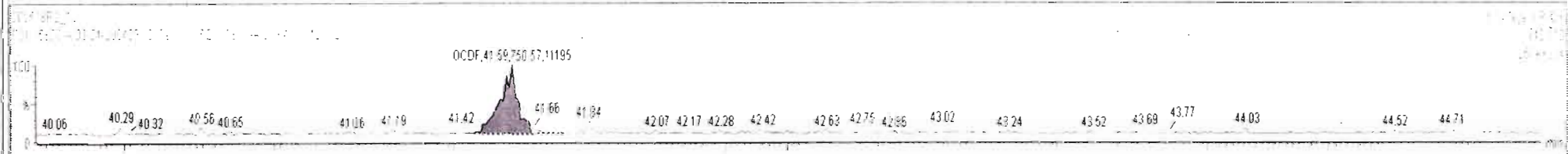
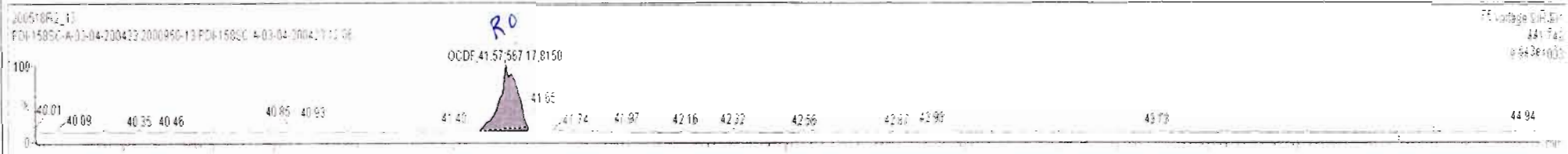
Name: 200518R2_13, Date: 18-May-2020, Time: 23:17:11, ID: 2000950-13 PDI-158SC-A-03-04-200423 12.06, Description: PDI-158SC-A-03-04-200423



200518R2_13 - 2000950-13 PDI-158SC-A-03-04-200423 12.06 - PDI-158SC-A-03-04-200423

Name	Resp	RA	nly	RRF	wtVol	RT	RRT	Conc.	%Rec	DL	EMPC
17	OCDF	1.32e3	0.76	YES	0.6021	10.090	41.57	1.000	0.316	0.0402	0.268
18	13C-2,3,7,8-TCDD	1.49e6	0.79	NO	1.1595	10.090	26.05	1.027	145	72.9	0.162
19	13C-1,2,3,7,8-PeCDD	1.42e6	0.64	NO	0.6472	10.090	31.13	1.227	169	35.4	0.114
20	13C-1,2,3,4,7,8-HxCDD	1.10e6	1.28	NO	0.7459	10.090	34.51	1.014	181	91.1	0.209

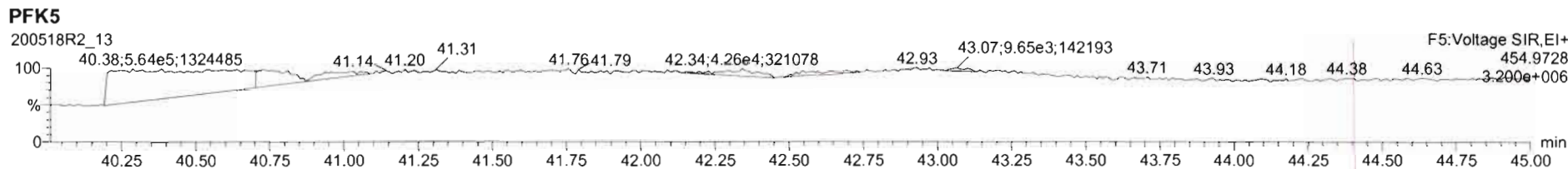
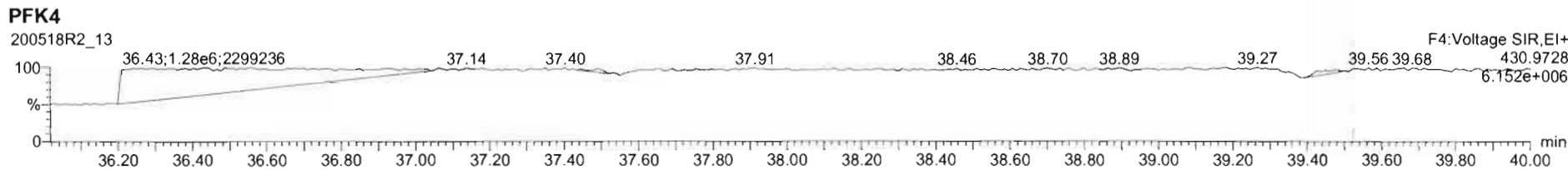
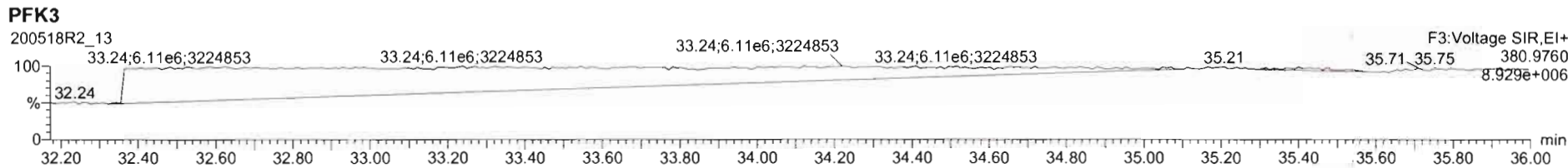
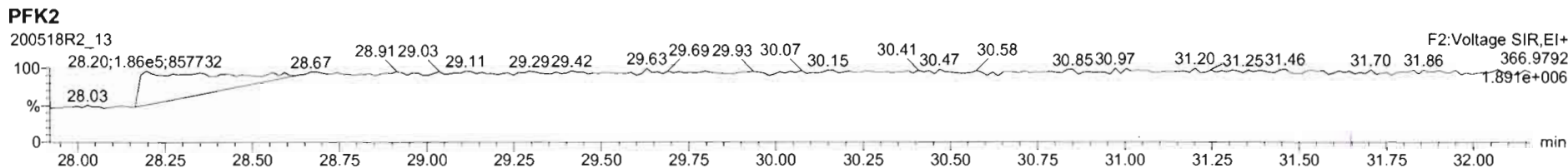
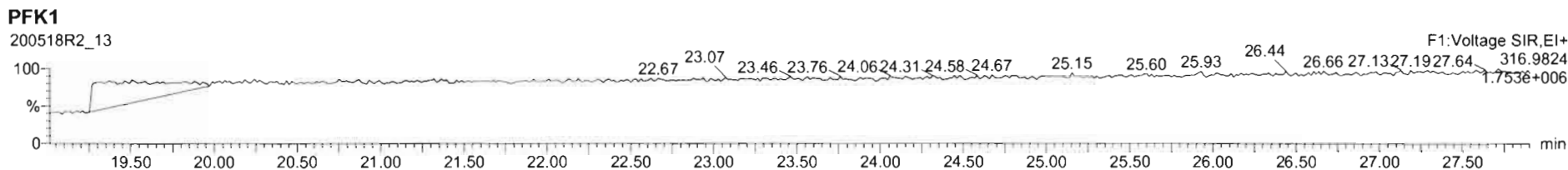
Name	RT	m1 Resp	m2 Resp	RA	nly	EMPC	Conc.
1							



Dataset: Untitled

Last Altered: Tuesday, May 19, 2020 07:25:38 Pacific Daylight Time
Printed: Tuesday, May 19, 2020 07:47:40 Pacific Daylight Time

Name: 200518R2_13, Date: 18-May-2020, Time: 23:17:11, ID: 2000950-13 PDI-158SC-A-03-04-200423 12.06, Description: PDI-158SC-A-03-04-200423



CONFIRMATION

Dataset: U:\VG7.PRO\Results\200520D1\200520D1_14.qld

Last Altered: Thursday, May 21, 2020 09:39:45 Pacific Daylight Time
Printed: Thursday, May 21, 2020 09:40:02 Pacific Daylight Time

DB 5/21/20 *07 05/22/2020*

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: 200520D1_14, Date: 20-May-2020, Time: 19:25:21, ID: 2000950-10RE1 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

#	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	7.13e1	0.78	NO	0.982	10.885	17.666	17.66	1.000	1.001	0.81994		1.93	0.820
2	2 13C-2,3,7,8-TCDF	1.63e4	0.79	NO	1.08	10.885	17.701	17.65	1.133	1.135	152.11	82.8	6.92	
3	3 13C-1,2,3,4-TCDF	1.82e4	0.81	NO	1.00	10.885	15.660	15.54	1.000	1.000	183.73	100	7.49	

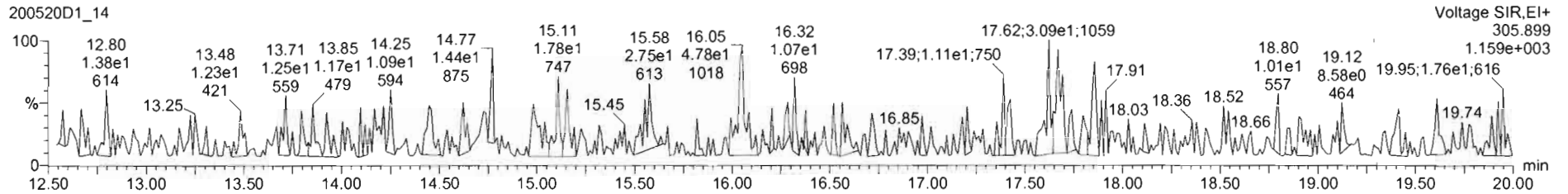
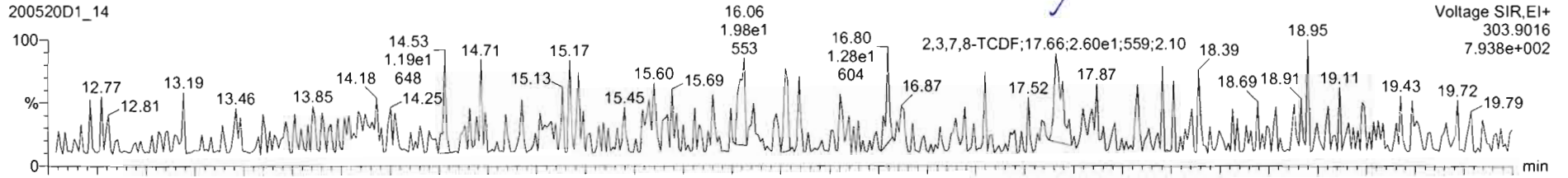
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_14.qld

Last Altered: Thursday, May 21, 2020 09:37:21 Pacific Daylight Time
Printed: Thursday, May 21, 2020 09:39:03 Pacific Daylight Time

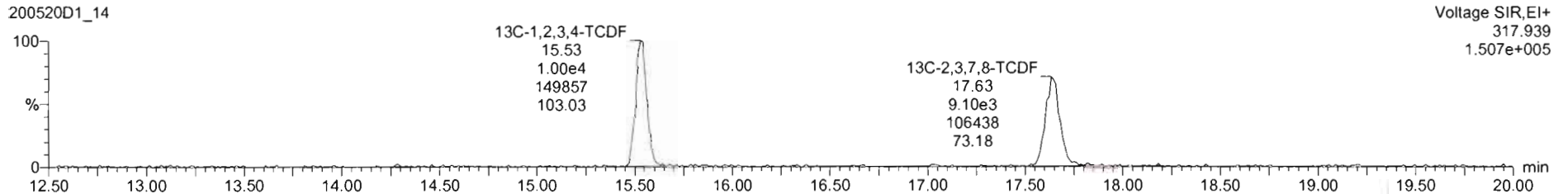
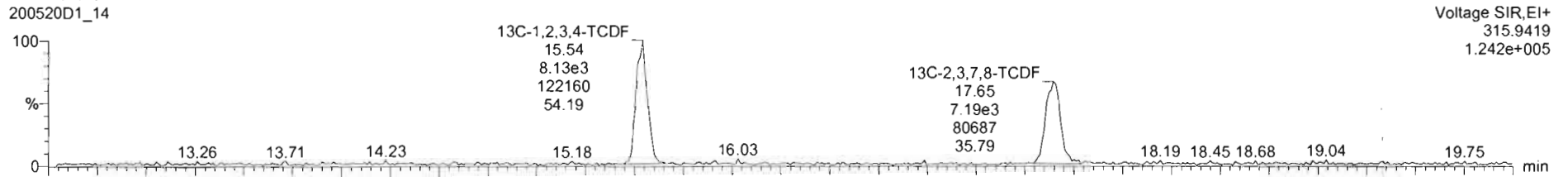
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

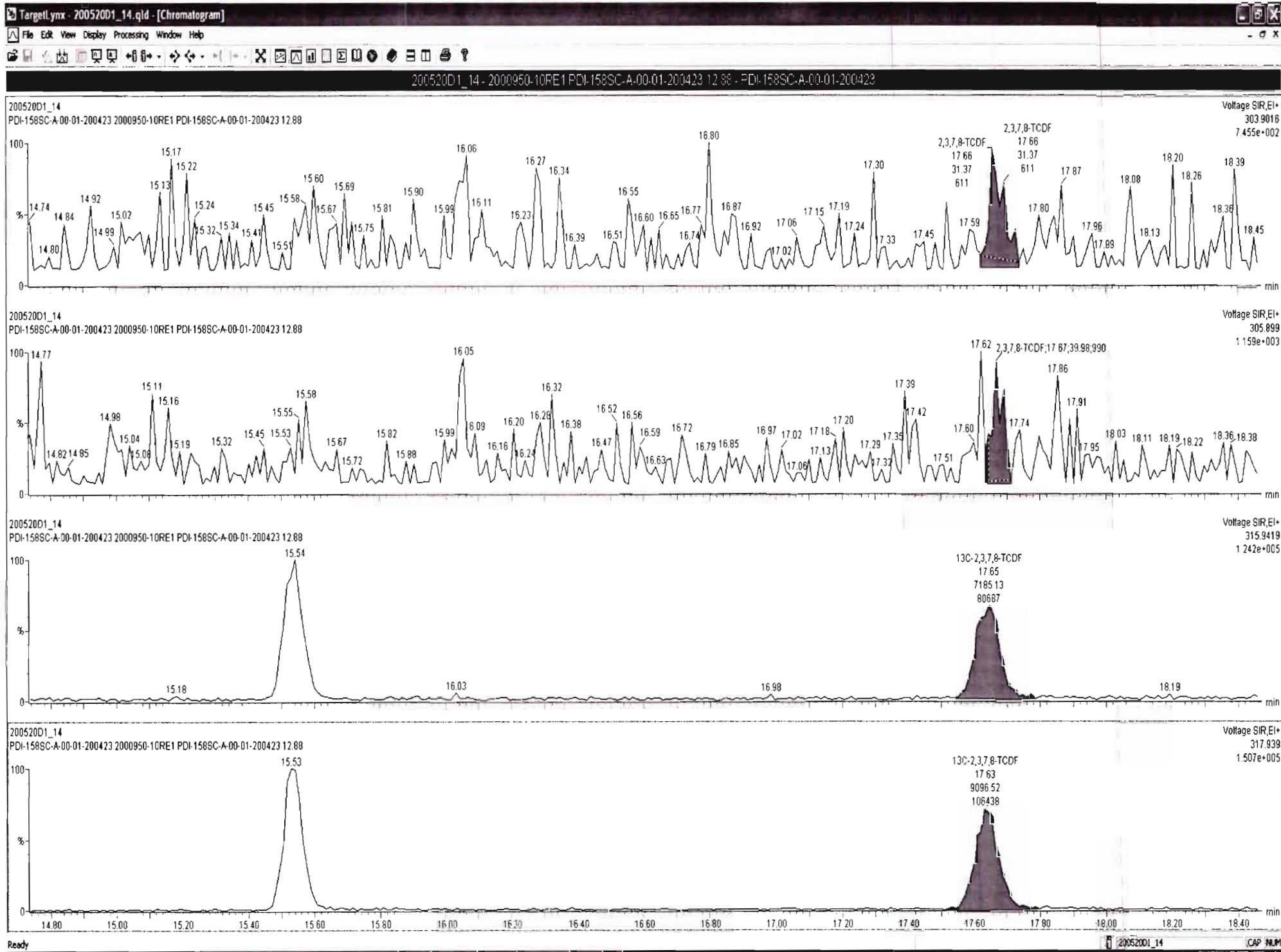
Name: 200520D1_14, Date: 20-May-2020, Time: 19:25:21, ID: 2000950-10RE1 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

2,3,7,8-TCDF



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





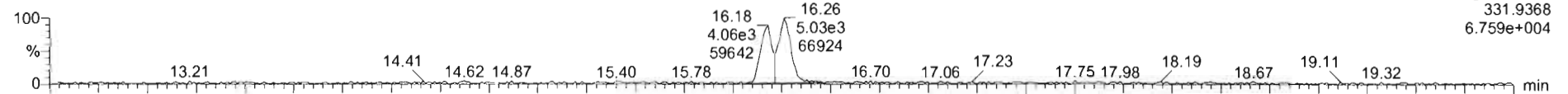
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_14.qld

Last Altered: Thursday, May 21, 2020 09:37:21 Pacific Daylight Time
Printed: Thursday, May 21, 2020 09:39:03 Pacific Daylight Time

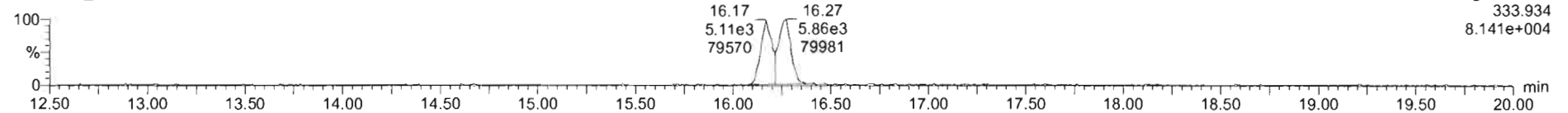
Name: 200520D1_14, Date: 20-May-2020, Time: 19:25:21, ID: 2000950-10RE1 PDI-158SC-A-00-01-200423 12.88, Description: PDI-158SC-A-00-01-200423

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

200520D1_14

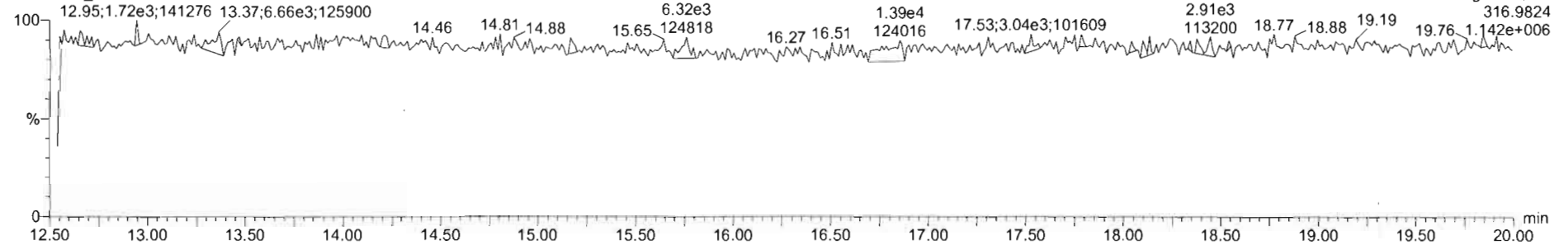


200520D1_14



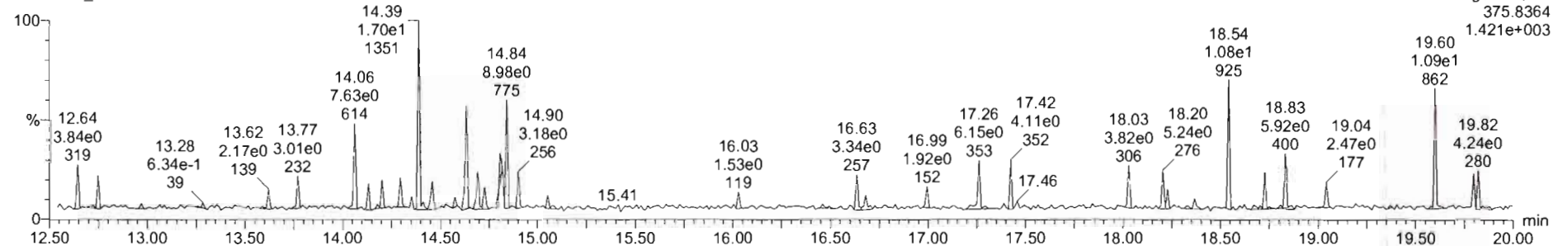
PFK1

200520D1_14



DPE1

200520D1_14



CONTINUING CALIBRATION

HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST20050621-1

Reviewed By: CT 03/07/2020
Initials & Date

End Calibration ID: ST20050622-1

	<u>Beg.</u>	<u>End</u>		<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mass resolution \geq	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K		
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	1614 1699 429 1613/1668/8280		
First and last eluters present?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	GC Break <20%		<input type="checkbox"/> NA
Verification Std. named correctly?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8280 CS1 End Standard:		
(ST-Year-Month-Day-VG ID)			- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA
Forms signed and dated?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Comments:		
Correct ICAL referenced?	<u>GEB</u>	<u>GEB</u>			
Run Log:					
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			
- Samples within 12 hour clock?	<u>(Y)</u>	N			
- Bottle position verified?	<u>GEB</u>				

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-1.qld

Last Altered: Wednesday, May 06, 2020 8:46:03 AM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 8:49:30 AM Pacific Daylight Time

GRB 05/06/2020

CT 05/07/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	8.53e4	8.93e5	0.75	NO	0.947	25.96	25.96	NO	1.001	1.001	10.084	101	NO
2	2 1,2,3,7,8-PeCDD	2.65e5	6.05e5	0.61	NO	0.942	31.07	31.06	NO	1.001	1.000	46.520	93.0	NO
3	3 1,2,3,4,7,8-HxCDD	1.88e5	3.72e5	1.24	NO	1.06	34.43	34.44	NO	1.000	1.001	47.496	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	NO	0.915	34.53	34.54	NO	1.000	1.000	48.818	97.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	NO	0.915	34.81	34.81	NO	1.000	1.000	47.302	94.6	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	NO	0.898	38.31	38.31	NO	1.000	1.000	48.611	97.2	NO
7	7 OCDD	2.41e5	5.25e5	0.89	NO	0.933	41.30	41.31	NO	1.000	1.000	98.280	98.3	NO
8	8 2,3,7,8-TCDF	9.15e4	1.21e6	0.76	NO	0.787	25.01	25.00	NO	1.001	1.001	9.6344	96.3	NO
9	9 1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.62	NO	0.910	29.76	29.75	NO	1.001	1.000	49.530	99.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.56	NO	0.966	30.76	30.74	NO	1.001	1.000	47.465	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.48e5	5.42e5	1.21	NO	0.878	33.57	33.58	NO	1.000	1.000	52.082	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.08e5	6.64e5	1.22	NO	0.874	33.69	33.70	NO	1.000	1.000	53.070	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.68e5	1.19	NO	0.922	34.29	34.27	NO	1.001	1.000	51.966	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.87e5	4.07e5	1.23	NO	0.864	35.15	35.15	NO	1.000	1.000	53.029	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.00	NO	0.871	36.92	36.89	NO	1.001	1.000	52.340	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	0.98	NO	1.01	38.88	38.90	NO	1.000	1.000	53.202	106	NO
17	17 OCDF	2.37e5	5.76e5	0.88	NO	0.802	41.47	41.48	NO	1.000	1.000	102.74	103	NO
18	18 13C-2,3,7,8-TCDD	8.93e5	7.50e5	0.79	NO	1.16	25.92	25.93	NO	1.026	1.027	102.67	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.63	NO	0.847	31.00	31.05	NO	1.227	1.229	95.247	95.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.29	NO	0.750	34.43	34.42	NO	1.014	1.014	92.391	92.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.26	NO	0.963	34.54	34.53	NO	1.017	1.017	105.00	105	NO
22	22 13C-1,2,3,7,8,9-HxCDD	4.52e5	5.37e5	1.25	NO	0.838	34.81	34.80	NO	1.025	1.025	100.42	100	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	3.26e5	5.37e5	1.05	NO	0.641	38.29	38.30	NO	1.128	1.128	94.465	94.5	NO
24	24 13C-OCDD	5.25e5	5.37e5	0.88	NO	0.586	41.28	41.30	NO	1.216	1.217	166.67	83.3	NO
25	25 13C-2,3,7,8-TCDF	1.21e6	1.15e6	0.75	NO	1.03	24.99	24.99	NO	0.989	0.989	101.81	102	NO
26	26 13C-1,2,3,7,8-PeCDF	9.22e5	1.15e6	1.59	NO	0.845	29.69	29.74	NO	1.176	1.177	95.218	95.2	NO
27	27 13C-2,3,4,7,8-PeCDF	8.72e5	1.15e6	1.60	NO	0.814	30.68	30.73	NO	1.215	1.217	93.527	93.5	NO
28	28 13C-1,2,3,4,7,8-HxCDF	5.42e5	5.37e5	0.50	NO	1.00	33.57	33.57	NO	0.989	0.989	100.37	100	NO
29	29 13C-1,2,3,6,7,8-HxCDF	6.64e5	5.37e5	0.50	NO	1.14	33.69	33.69	NO	0.992	0.992	108.66	109	NO
30	30 13C-2,3,4,6,7,8-HxCDF	5.68e5	5.37e5	0.49	NO	1.02	34.26	34.26	NO	1.009	1.009	103.34	103	NO
31	31 13C-1,2,3,7,8,9-HxCDF	4.07e5	5.37e5	0.51	NO	0.845	35.15	35.15	NO	1.035	1.035	89.744	89.7	NO

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-1.qld

Last Altered: Wednesday, May 06, 2020 8:46:03 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 8:49:30 AM Pacific Daylight Time

Name: 200506R1_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

	# Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	4.28e5	5.37e5	0.42	NO	0.771	36.88	36.88	NO	1.086	1.086	103.35	103	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	2.29e5	5.37e5	0.43	NO	0.482	38.88	38.88	NO	1.145	1.145	88.413	88.4	NO
34	34 13C-OCDF	5.76e5	5.37e5	0.89	NO	0.669	41.45	41.47	NO	1.221	1.222	160.42	80.2	NO
35	35 37Cl-2,3,7,8-TCDD	8.14e4	7.50e5			1.10	25.95	25.96	NO	1.028	1.028	9.8805	98.8	NO
36	36 13C-1,2,3,4-TCDD	7.50e5	7.50e5	0.80	NO	1.00	25.35	25.26	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	1.15e6	1.15e6	0.79	NO	1.00	23.56	23.46	NO	1.000	1.000	100.00	100	NO
33	38 13C-1,2,3,4,6,9-HxCDF	5.37e5	5.37e5	0.50	NO	1.00	34.00	33.95	NO	1.000	1.000	100.00	100	YES ^{ot}

Dataset: Untitled

Last Altered: Wednesday, May 06, 2020 2:26:48 PM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 2:26:56 PM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

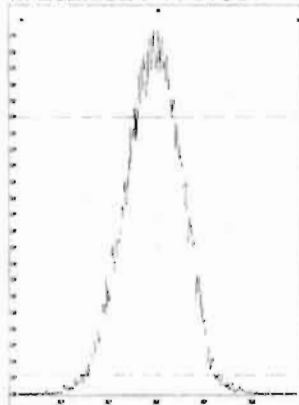
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200506R1_1	ST200506R1_1 1613 CS3 19L2305	06-May-20	07:56:17
2	200506R1_2	B0E0015-BS1 OPR 10	06-May-20	08:43:47
3	200506R1_3	SOLVENT BLANK	06-May-20	09:30:53
4	200506R1_4	B0E0015-BLK1 Method Blank 10	06-May-20	10:17:03
5	200506R1_5	2000829-01 Finished Ice - Melted 0.99059	06-May-20	11:04:24
6	200506R1_6	2000927-13RE2 PDI-152SC-A-10-11-200421 ...	06-May-20	11:51:37
7	200506R1_7	SOLVENT BLANK	06-May-20	12:38:23
8	200506R2_1	ST200506R2_1 1613 CS3 19L2305	06-May-20	13:35:58

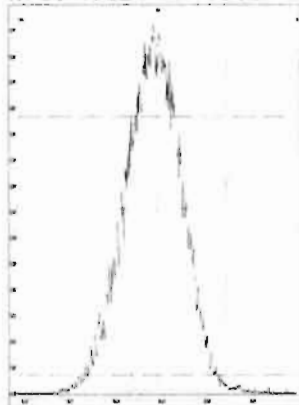
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:49:52 Pacific Daylight Time

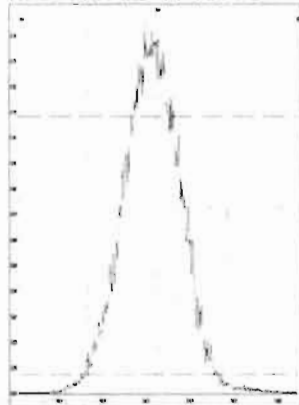
M 292.9824 R 11061



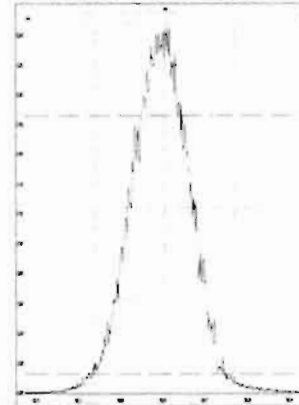
M 304.9824 R 11010



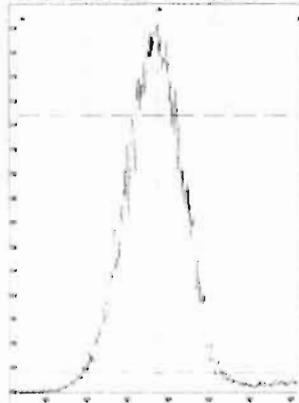
M 318.9792 R 10776



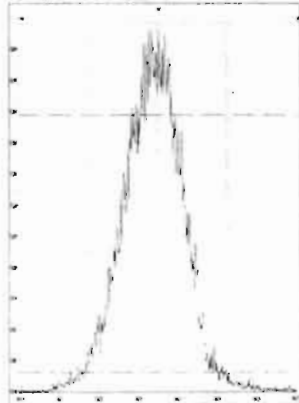
M 330.9792 R 10502



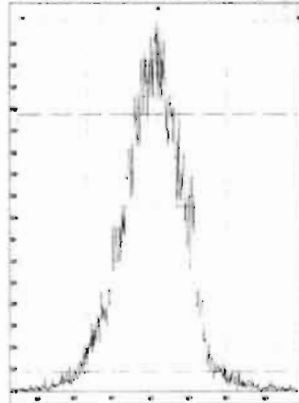
M 342.9792 R 10823



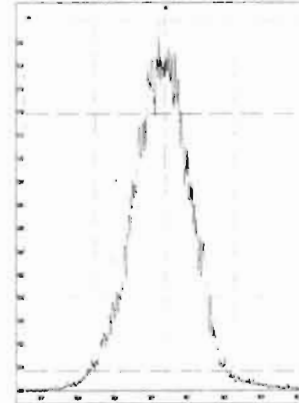
M 354.9792 R 10376



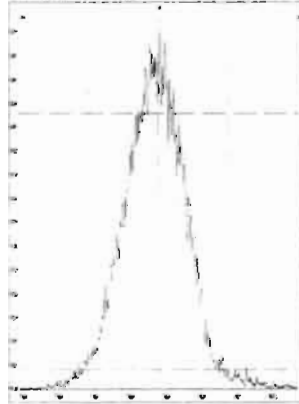
M 366.9792 R 10819



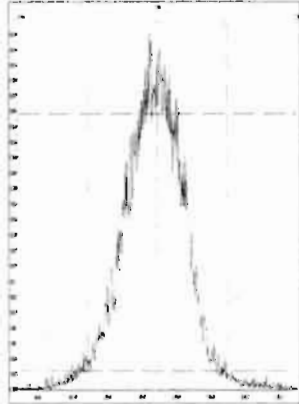
M 380.9760 R 10203



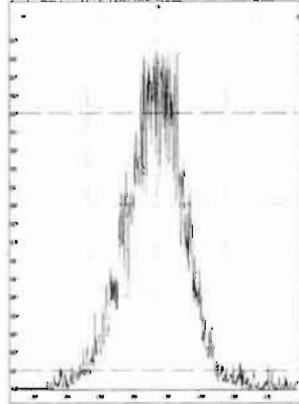
M 392.9760 R 10286



M 404.9760 R 10330



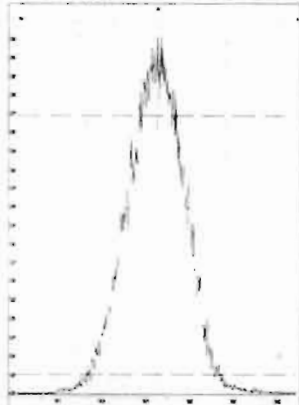
M 416.9760 R 11060



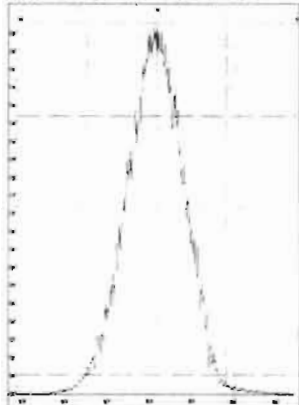
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:50:26 Pacific Daylight Time

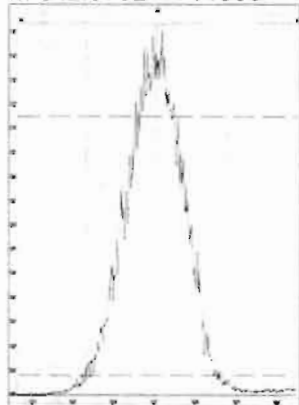
M 318.9792 R 11313



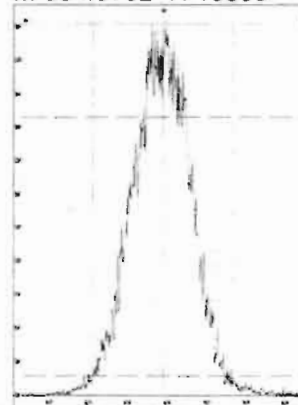
M 330.9792 R 10464



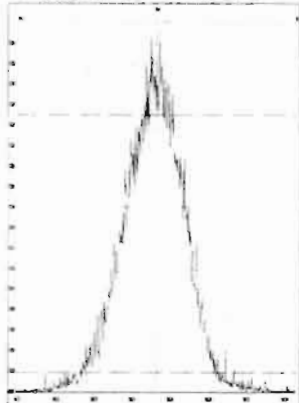
M 342.9792 R 11365



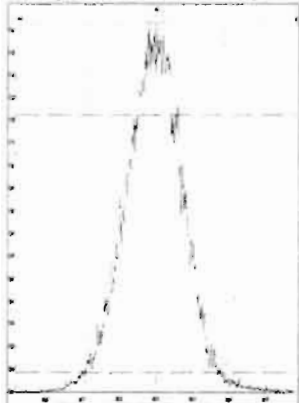
M 354.9792 R 10683



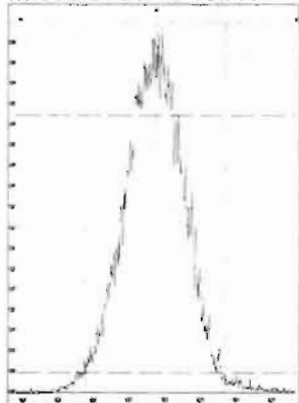
M 366.9792 R 10375



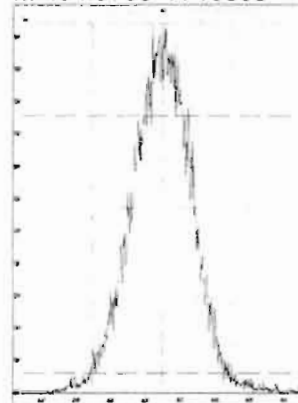
M 380.9760 R 10460



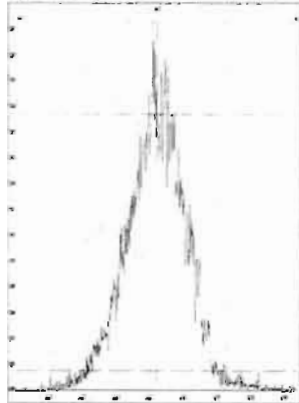
M 392.9760 R 10419



M 404.9760 R 10505



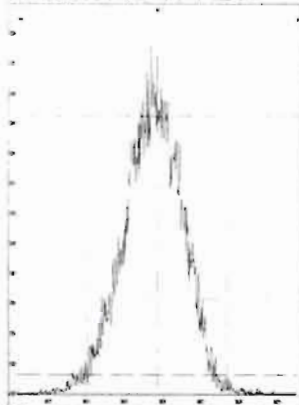
M 416.9760 R 11159



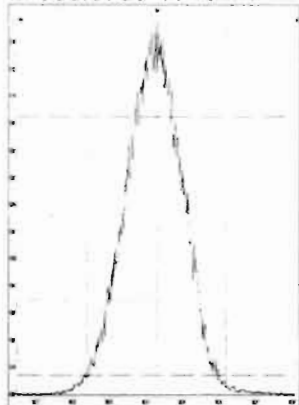
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:51:02 Pacific Daylight Time

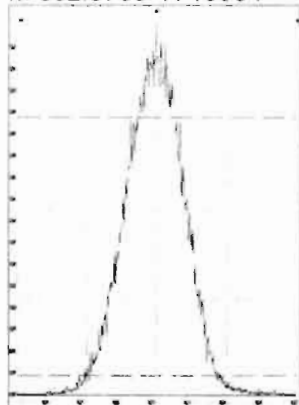
M 366.9792 R 11263



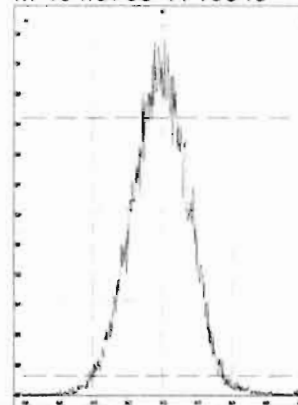
M 380.9760 R 10417



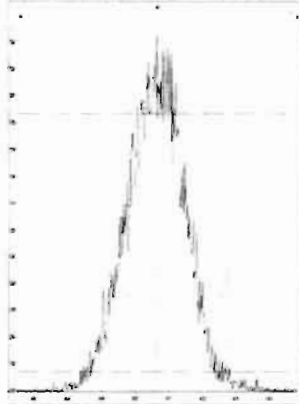
M 392.9760 R 10964



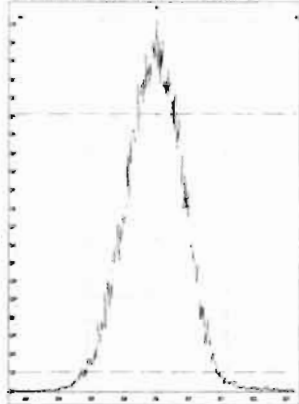
M 404.9760 R 10549



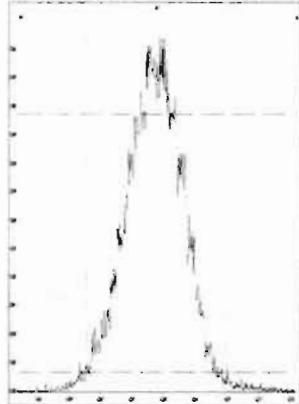
M 416.9760 R 11415



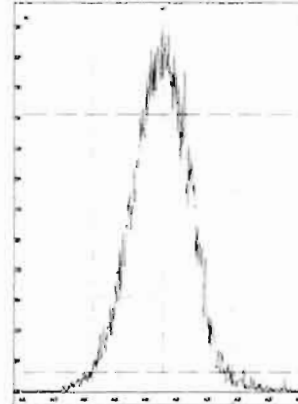
M 430.9728 R 10640



M 442.9728 R 11157



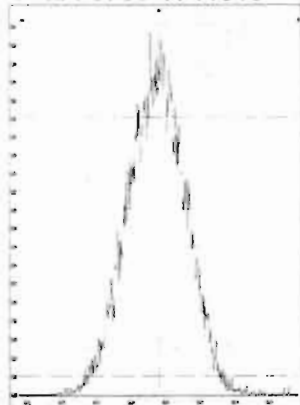
M 454.9728 R 10868



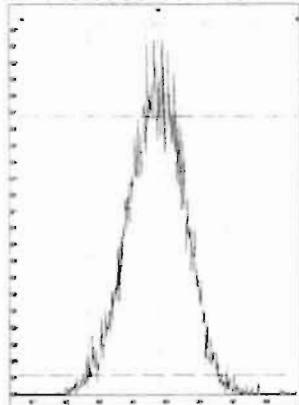
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:51:28 Pacific Daylight Time

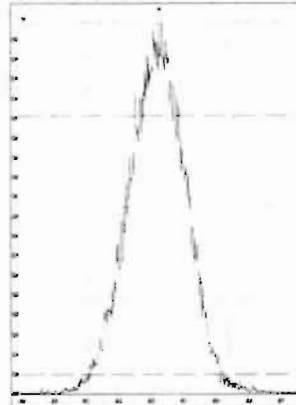
M 404.9760 R 11015



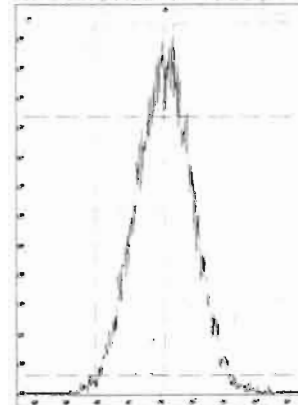
M 416.9760 R 11464



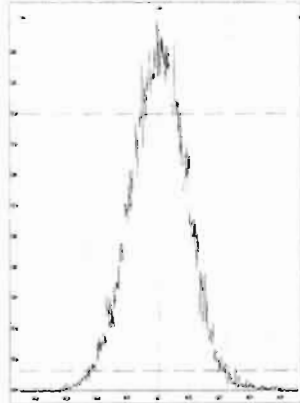
M 430.9728 R 10775



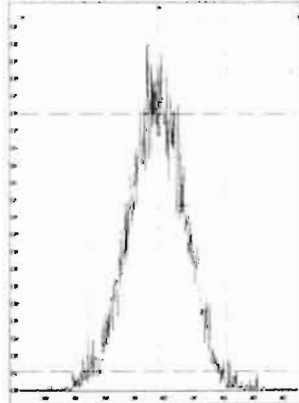
M 442.9728 R 10550



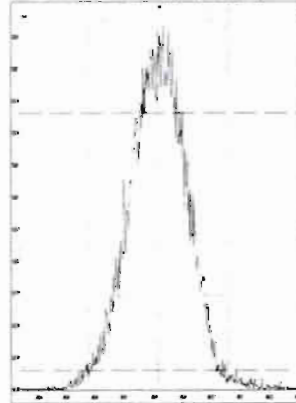
M 454.9728 R 11160



M 466.9728 R 10502



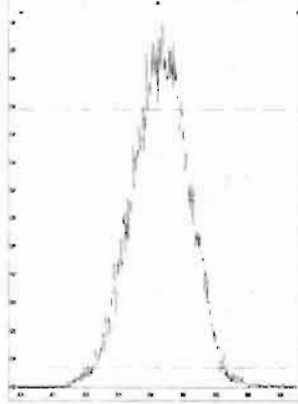
M 480.9696 R 11111



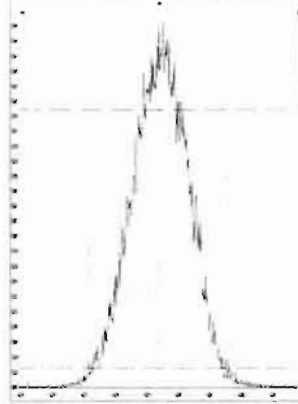
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 07:52:17 Pacific Daylight Time

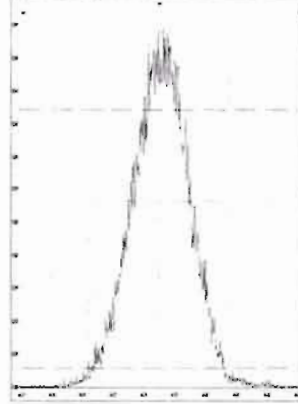
M 430.9728 R 11063



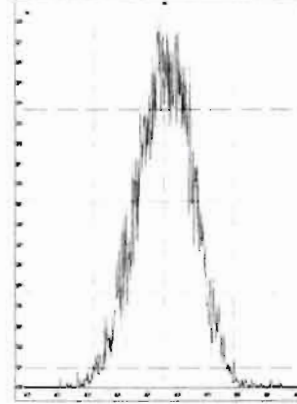
M 442.9728 R 10916



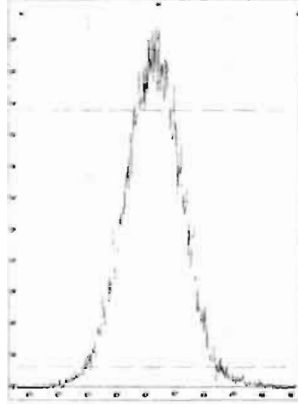
M 454.9728 R 10731



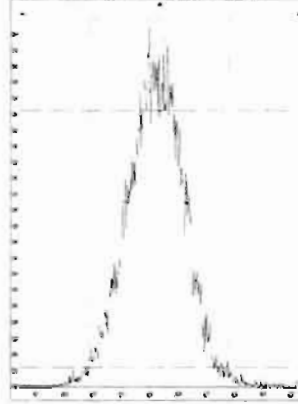
M 466.9728 R 11062



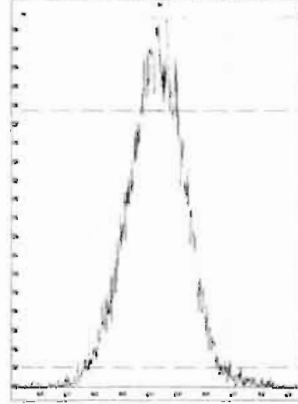
M 480.9696 R 10637



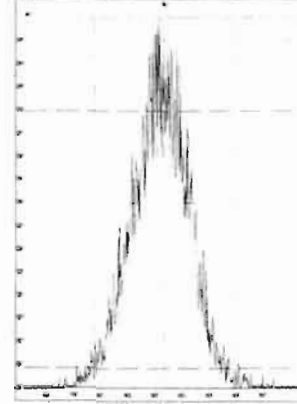
M 492.9696 R 10823



M 504.9696 R 11061



M 516.9697 R 11212



Vista Analytical Laboratory VG-11

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-CPSM.qld

Last Altered: Wednesday, May 06, 2020 8:47:38 AM Pacific Daylight Time

Printed: Wednesday, May 06, 2020 8:52:08 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.77
2	1,2,8,9-TCDD (Last)	26.96
3	1,2,4,7,9-PeCDD (First)	28.81
4	1,2,3,8,9-PeCDD (Last)	31.46
5	1,2,4,6,7,9-HxCDD (First)	32.97
6	1,2,3,7,8,9-HxCDD (Last)	34.81
7	1,2,3,4,6,7,9-HpCDD (First)	37.28
8	1,2,3,4,6,7,8-HpCDD (Last)	38.31
9	1,3,6,8-TCDF (First)	19.73
10	1,2,8,9-TCDF (Last)	27.10
11	1,3,4,6,8-PeCDF (First)	27.08
12	1,2,3,8,9-PeCDF (Last)	31.69
13	1,2,3,4,6,8-HxCDF (First)	32.41
14	1,2,3,7,8,9-HxCDF (Last)	35.15
15	1,2,3,4,6,7,8-HpCDF (First)	36.89
16	1,2,3,4,7,8,9-HpCDF (Last)	38.90

Dataset: U:\VG12.PRO\Results\200506R1\200506R1-CPSM.qld

Last Altered: Wednesday, May 06, 2020 8:47:38 AM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 8:52:08 AM Pacific Daylight Time

GRB 05/06/2020

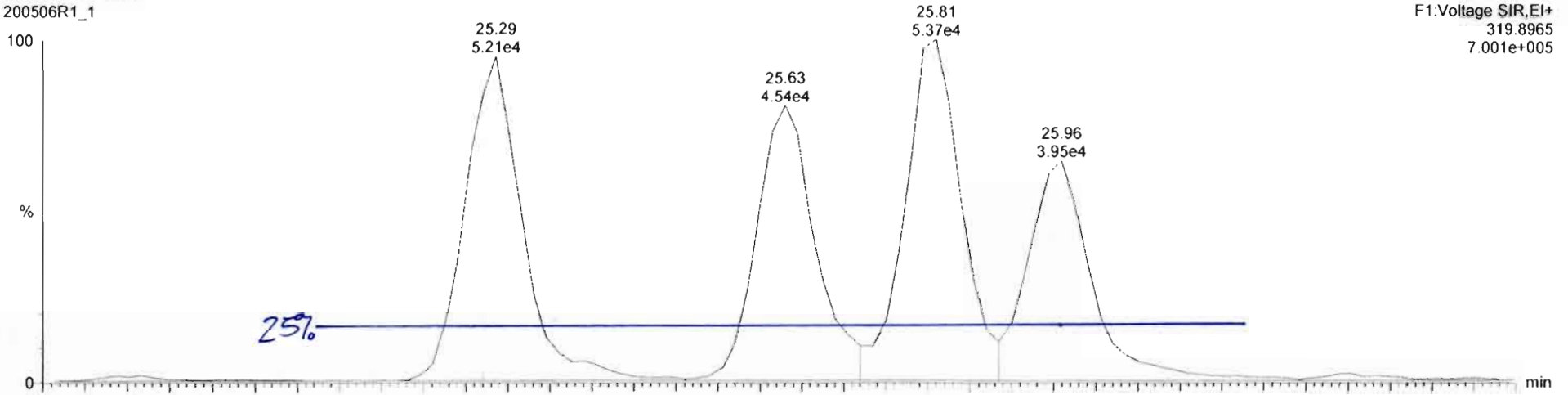
Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200506R1_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

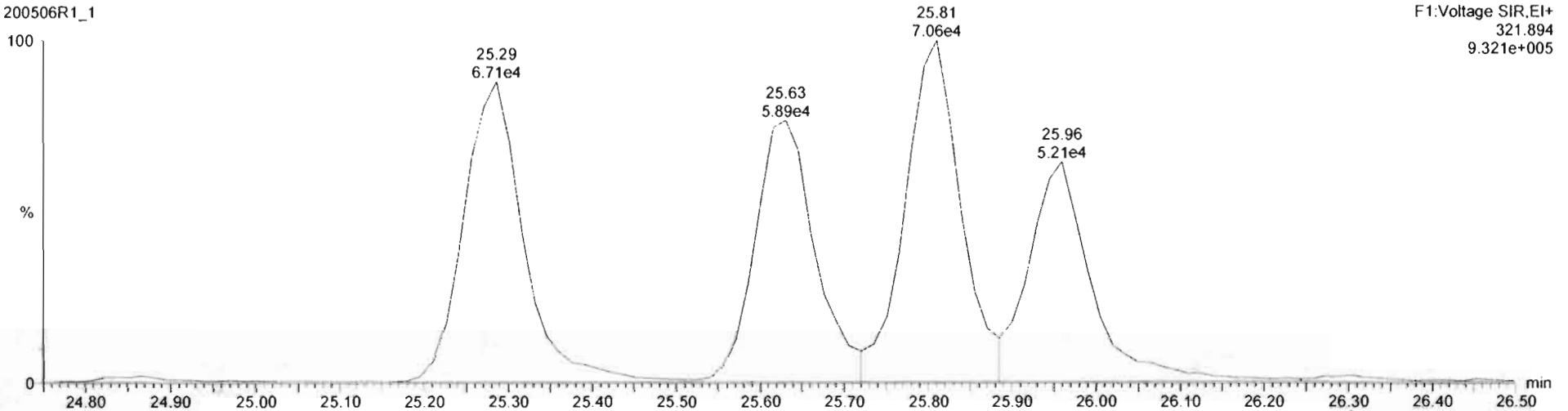
200506R1_1

F1:Voltage SIR,EI+
319.8965
7.001e+005



200506R1_1

F1:Voltage SIR,EI+
321.894
9.321e+005



Dataset: Untitled

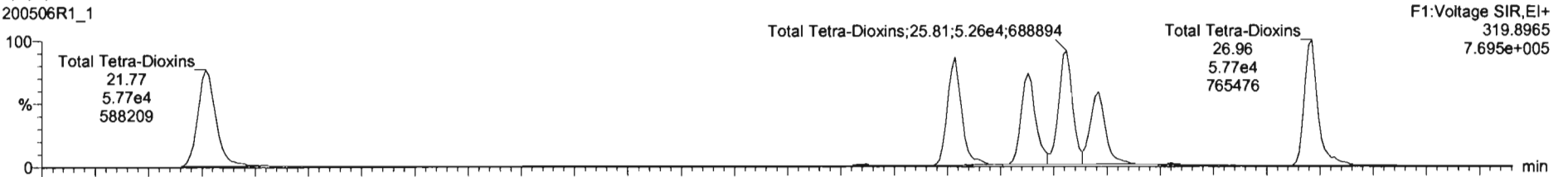
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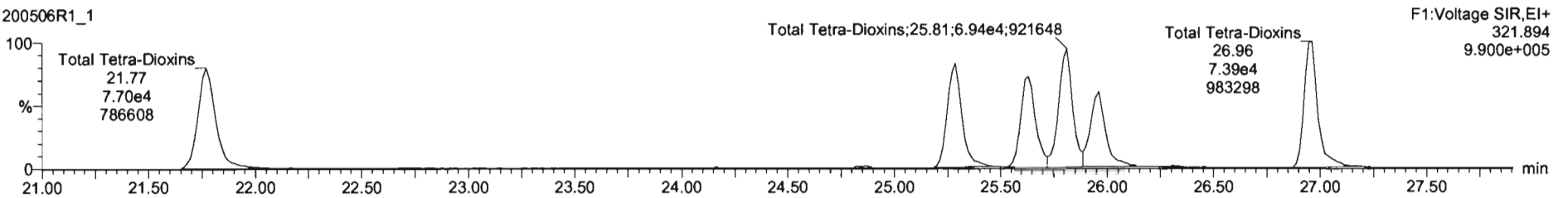
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2,3,7,8-TCDD

200506R1_1

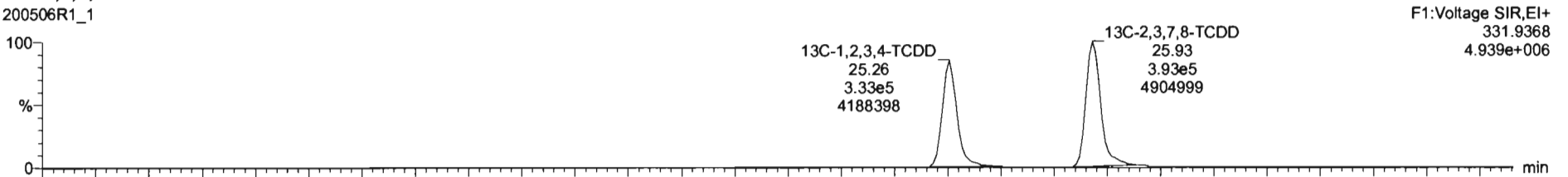


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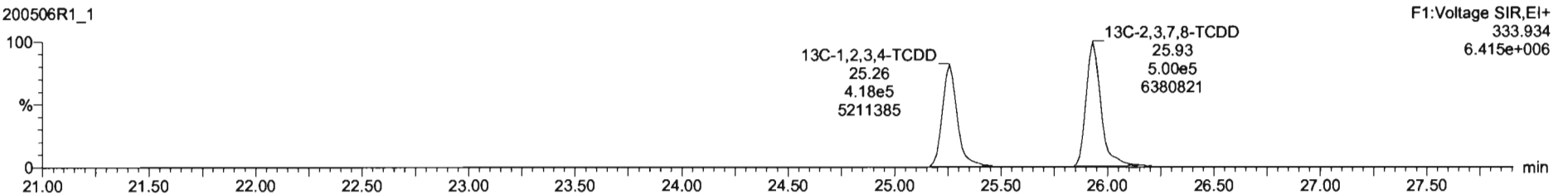


13C-2,3,7,8-TCDD

200506R1_1



200506R1_1



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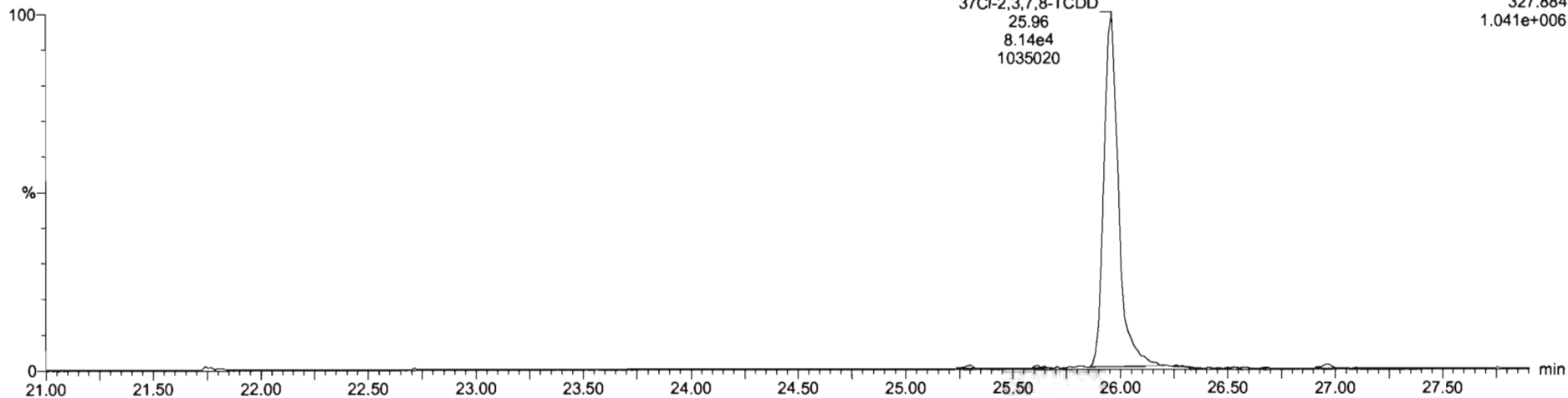
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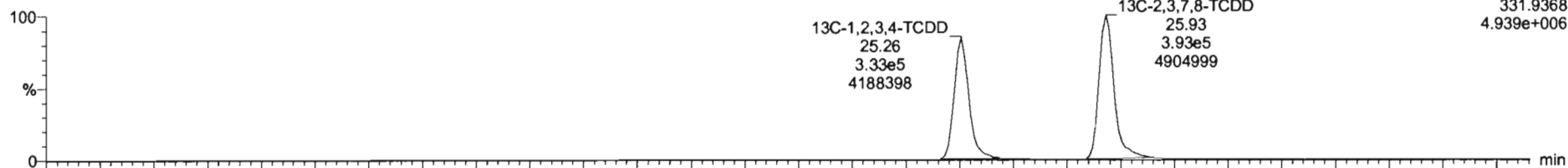
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1.041e+006

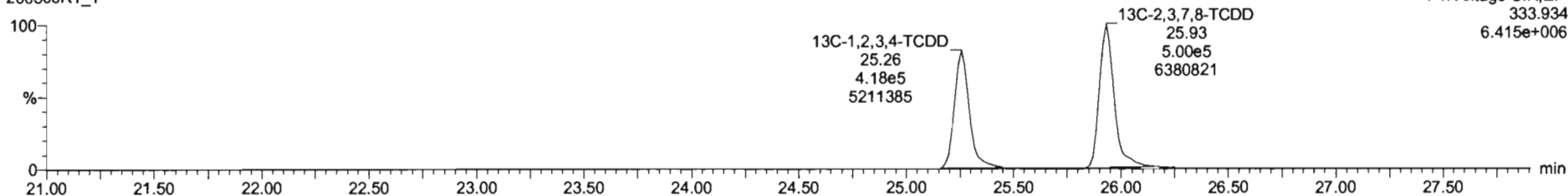
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200506R1_1



F1:Voltage SIR,EI+
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200506R1_1



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333.934
6.415e+006

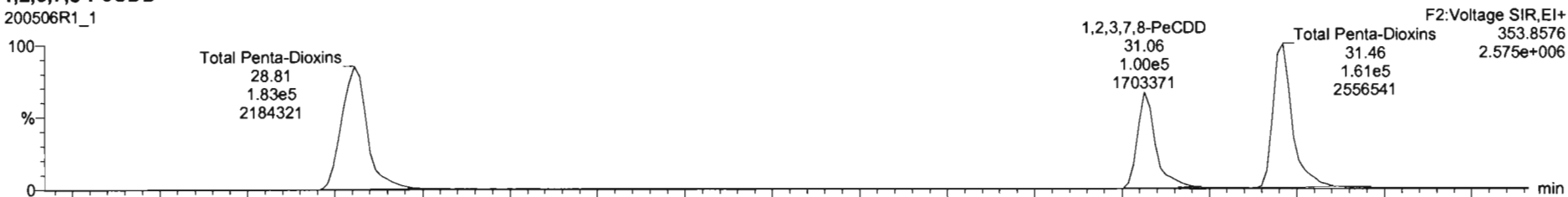
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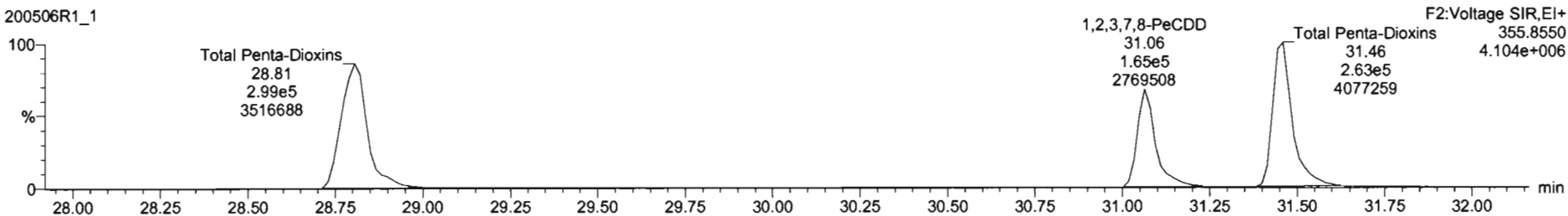
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1,2,3,7,8-PeCDD

200506R1_1

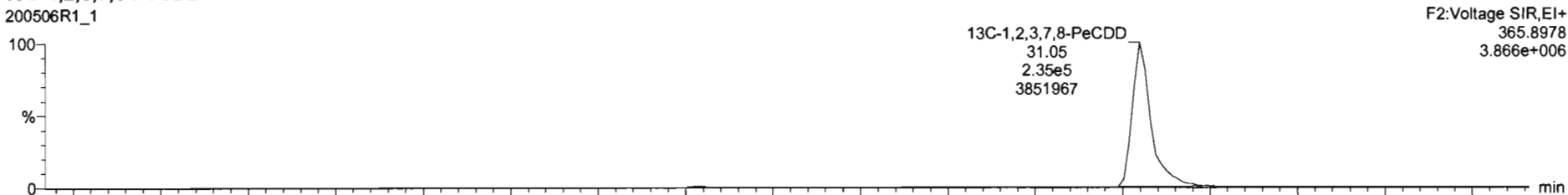


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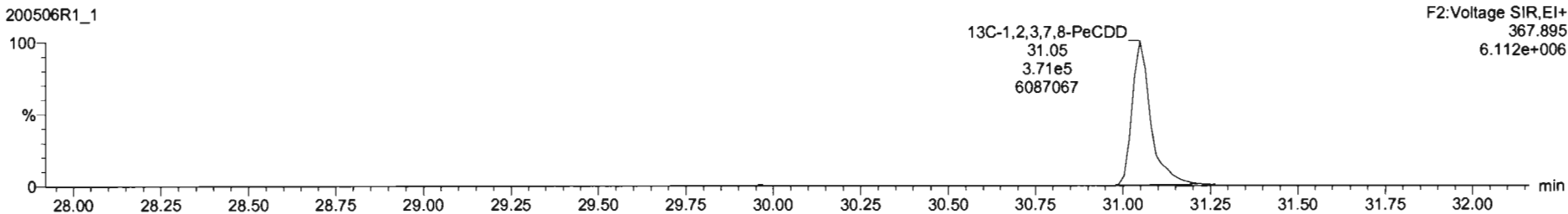


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200506R1_1



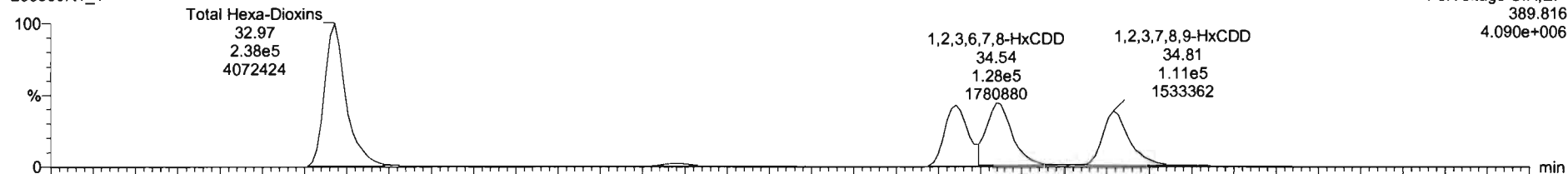
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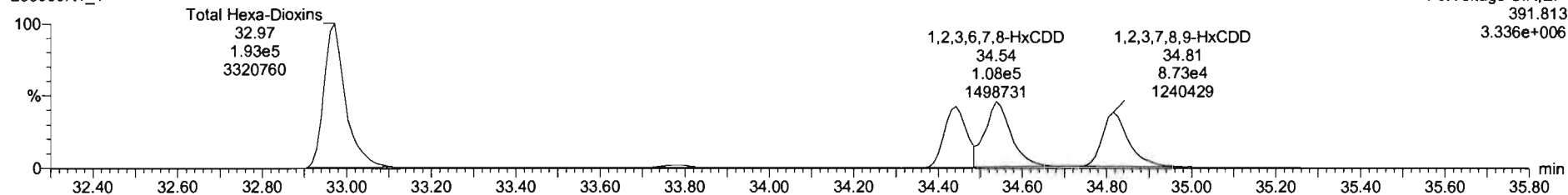
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1,2,3,4,7,8-HxCDD

200506R1_1

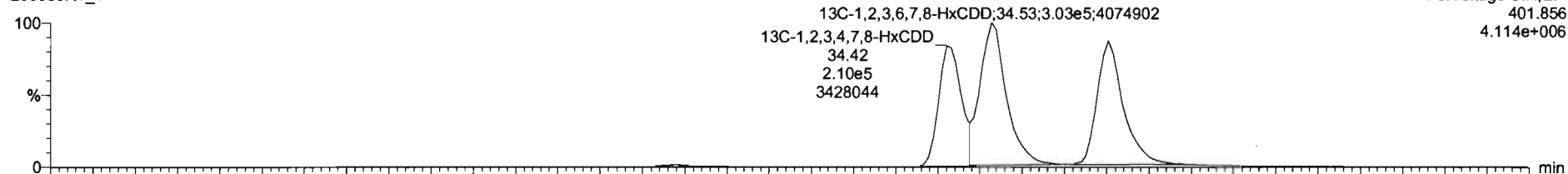


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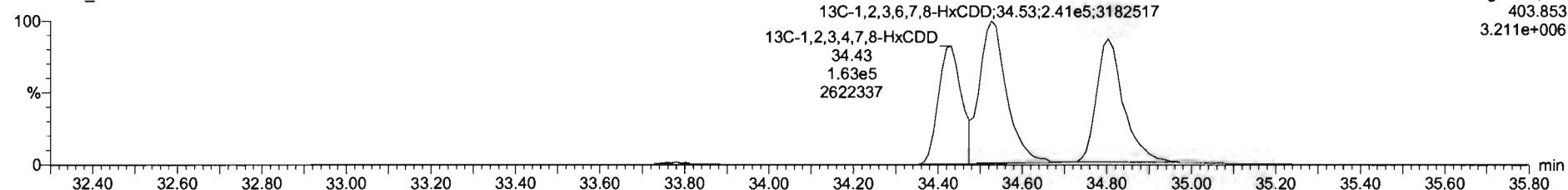


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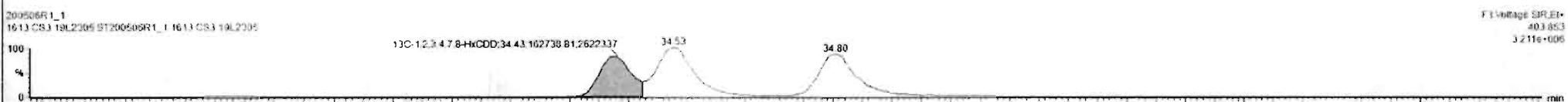
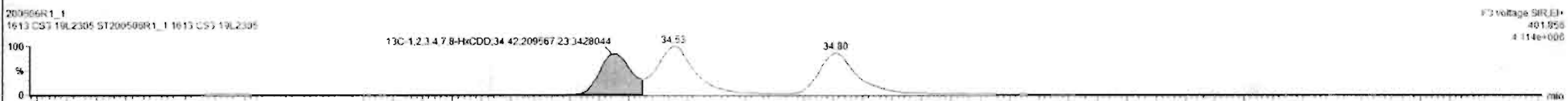
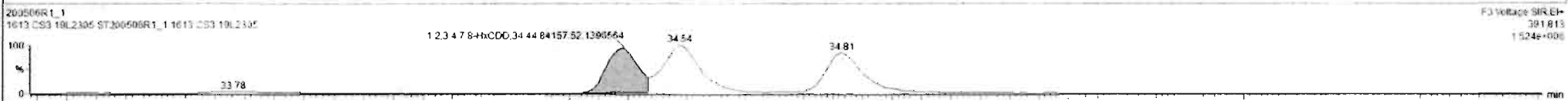
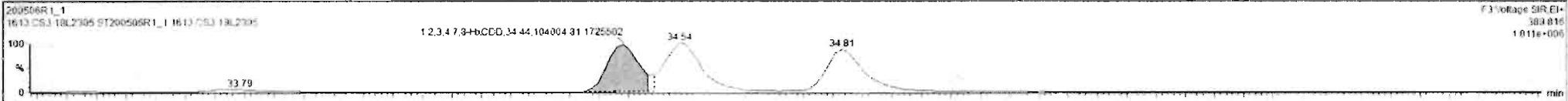


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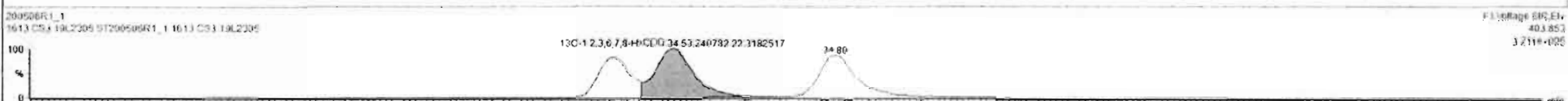
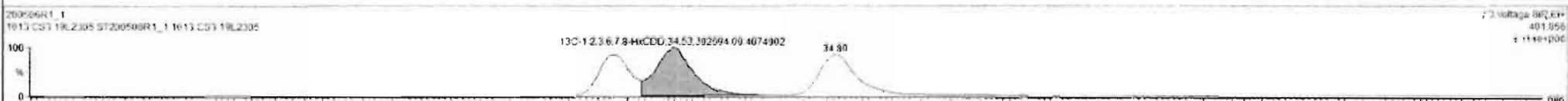
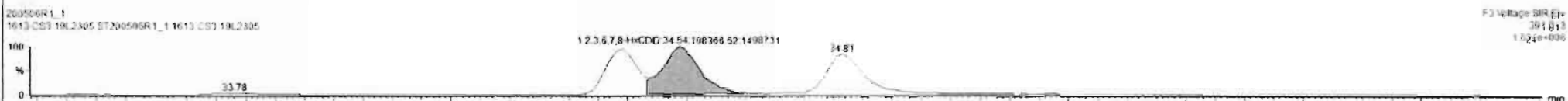


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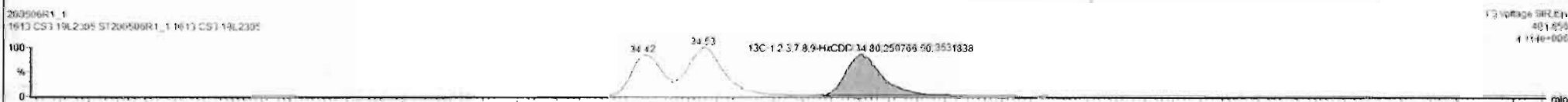
#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1 2,3,7,8-TCDD	6.53e4	8.53e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	101	NO
2	1 2,3,7,8-PeCDD	2.85e5	6.05e5	0.83	0.81	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.5	92.0	NO
3	1 1,2,3,4,7,8-HxCDD	1.88e5	3.72e5	1.24	1.24	NO	1.0041	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	1 1,2,3,6,7,8-HxCDD	2.45e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	48.0	97.5	NO
5	1 1,2,3,7,8,9-HxCDD	1.56e5	4.52e5	1.24	1.24	NO	0.9145	34.81	34.81	NO	1.000	1.000	47.9	95.8	NO
6	1 1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	1.04	NO	0.8975	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	OCDD	2.44e5	5.25e5	0.85	0.82	NO	0.9335	41.30	41.31	NO	1.000	1.000	99.5	99.5	NO
8	2,3,7,8-TCDF	9.15e4	1.21e5	0.77	0.76	NO	0.7871	25.03	25.00	NO	1.001	1.001	9.63	96.3	NO
9	1 2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.52	NO	0.9182	29.78	29.75	NO	1.001	1.001	49.0	96.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.55	NO	0.9664	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.48e5	5.42e5	1.24	1.20	NO	0.8782	33.57	33.58	NO	1.000	1.000	52.1	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.05e5	6.84e5	1.24	1.22	NO	0.8740	33.70	33.70	NO	1.000	1.000	53.1	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.88e5	1.24	1.19	NO	0.9217	34.29	34.27	NO	1.001	1.000	52.0	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.88e5	4.07e5	1.24	1.20	NO	0.8642	35.14	35.16	NO	1.000	1.000	53.0	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.0	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.96	NO	1.0115	38.88	38.90	NO	1.000	1.001	53.0	106	NO
17	OCDF	2.07e5	5.16e5	0.85	0.85	NO	0.8921	41.47	41.48	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	6.93e5	7.50e5	0.77	0.76	NO	1.1556	25.92	25.93	NO	1.026	1.027	103	103	NO
19	13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.83	0.83	NO	0.9472	30.99	31.05	NO	1.227	1.229	95.2	95.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.24	1.28	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



#	Name	Resp.	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Comp	%Rec	STD out
1	1 2,3,7,8-TCDD	6.63e4	8.93e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	103	NO
2	2 1,2,3,7,8-PeCDD	2.05e6	6.05e6	0.63	0.61	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.6	93.0	NO
3	3 1,2,3,4,7,8-HxCDD	1.08e5	3.72e5	1.24	1.24	NO	1.0641	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	4 1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	40.8	97.6	NO
5	5 1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	1.27	NO	0.9149	34.81	34.81	NO	1.000	1.000	47.9	95.8	NO
6	6 1,2,3,4,6,7,8-HpCDD	1.42e6	3.26e6	1.04	1.04	NO	0.8979	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	7 OCDD	2.44e5	5.25e5	0.89	0.92	NO	0.9335	41.30	41.31	NO	1.000	1.000	99.5	99.5	NO
8	8 2,3,7,8-TCDF	9.15e4	1.21e6	0.77	0.76	NO	0.7871	25.01	25.00	NO	1.001	1.001	9.63	96.3	NO
9	9 1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.62	NO	0.9102	29.78	29.75	NO	1.001	1.001	49.5	95.1	NO
10	10 2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.56	NO	0.9964	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	11 1,2,3,4,7,8-HxCDF	2.46e5	5.42e5	1.24	1.20	NO	0.8782	32.57	32.58	NO	1.000	1.000	52.1	104	NO
12	12 1,2,3,6,7,8-HxCDF	3.09e5	6.64e5	1.24	1.22	NO	0.8740	32.70	32.70	NO	1.000	1.000	53.1	106	NO
13	13 2,3,4,6,7,8-HxCDF	2.72e5	5.68e5	1.24	1.19	NO	0.9217	34.29	34.27	NO	1.001	1.000	52.0	104	NO
14	14 1,2,3,7,8,9-HxCDF	1.80e5	4.07e5	1.24	1.26	NO	0.9642	35.14	35.16	NO	1.000	1.000	53.6	107	NO
15	15 1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.3	105	NO
16	16 1,2,3,4,7,8,9-HpCDF	1.23e5	2.79e5	1.04	0.96	NO	1.0116	36.82	36.90	NO	1.000	1.001	53.2	106	NO
17	17 OCDF	2.37e5	5.78e5	0.89	0.89	NO	0.8021	41.47	41.48	NO	1.000	1.000	103	103	NO
18	18 13C-2,3,7,8-TCDD	6.93e5	7.50e5	0.77	0.75	NO	1.1595	25.92	25.92	NO	1.026	1.027	103	103	NO
19	19 13C-1,2,3,7,8-PeCDD	6.05e5	7.50e5	0.63	0.63	NO	0.9472	30.99	31.05	NO	1.227	1.229	95.2	96.2	NO
20	20 13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	21 13C-1,2,3,6,7,8-HxCDD	5.43e5	6.37e5	1.24	1.26	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



#	Name	Resp	S Resp	Pred RA	RA	ely	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	8.53e4	8.53e4	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	101	NO
2	1,2,3,7,8-PeCDD	3.85e6	6.05e6	0.63	0.61	NO	0.9428	31.07	31.06	NO	1.001	1.000	46.5	93.0	NO
3	1,2,3,4,7,8-HxCDD	1.05e5	3.72e5	1.24	1.24	NO	1.0541	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	48.8	97.6	NO
5	1,2,3,7,8,9-HxCDD	1.06e5	4.52e5	1.24	1.24	NO	0.9149	34.61	34.63	NO	1.000	1.000	47.3	94.8	NO
6	1,2,3,4,6,7,8-HpCDD	1.42e5	2.26e5	1.04	1.04	NO	0.9979	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	OCDD	2.44e5	5.25e5	0.89	0.92	NO	0.9335	41.30	41.31	NO	1.000	1.000	99.5	99.5	NO
8	2,3,7,8-TCDF	9.15e4	1.21e6	0.77	0.76	NO	0.7871	25.01	25.00	NO	1.001	1.001	9.63	96.3	NO
9	1,2,3,7,8-PeCDF	4.15e5	9.22e5	1.55	1.62	NO	0.9162	29.78	29.75	NO	1.001	1.001	49.5	99.1	NO
10	1,2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.58	NO	0.9964	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	1,2,3,4,7,8-HxCDF	2.46e5	5.42e5	1.24	1.20	NO	0.8782	33.57	33.58	NO	1.000	1.000	52.1	104	NO
12	1,2,3,6,7,8-HxCDF	3.08e5	6.84e5	1.24	1.22	NO	0.8740	33.70	33.70	NO	1.000	1.000	53.1	106	NO
13	2,3,4,6,7,8-HxCDF	2.72e5	5.68e5	1.24	1.19	NO	0.9217	34.29	34.27	NO	1.001	1.000	52.0	104	NO
14	1,2,3,7,8,9-HxCDF	1.88e5	4.07e5	1.24	1.26	NO	0.8642	35.14	35.16	NO	1.000	1.000	53.0	107	NO
15	1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.3	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.98	NO	1.0118	38.86	38.90	NO	1.000	1.001	53.2	106	NO
17	OCDF	2.37e5	5.78e5	0.89	0.89	NO	0.8021	41.47	41.48	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	8.93e5	7.58e5	0.77	0.78	NO	1.1595	25.92	25.93	NO	1.026	1.027	103	103	NO
19	13C-1,2,3,7,8-PeCDD	8.05e5	7.58e5	0.63	0.63	NO	0.9472	30.59	31.05	NO	1.227	1.229	95.2	95.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.24	1.28	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



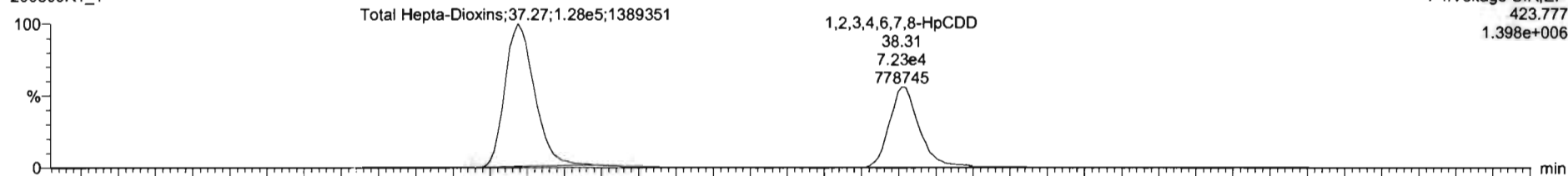
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Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

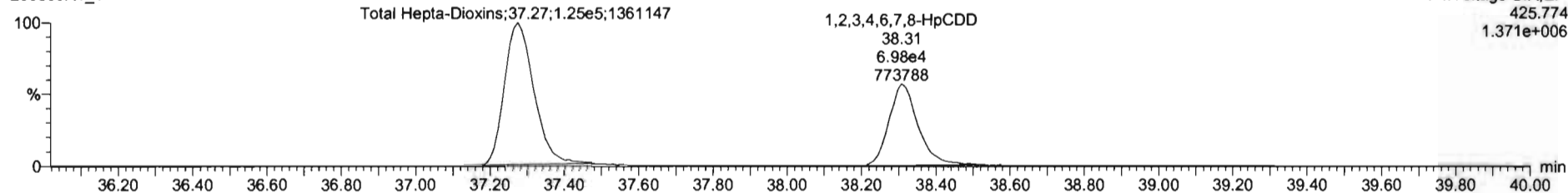
Name: 200506R1_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R1_1

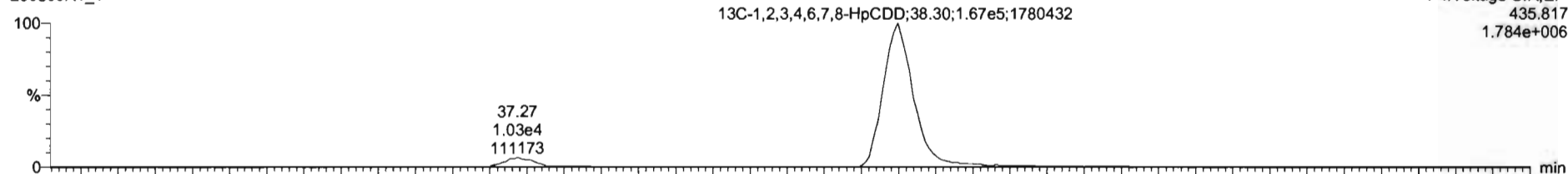


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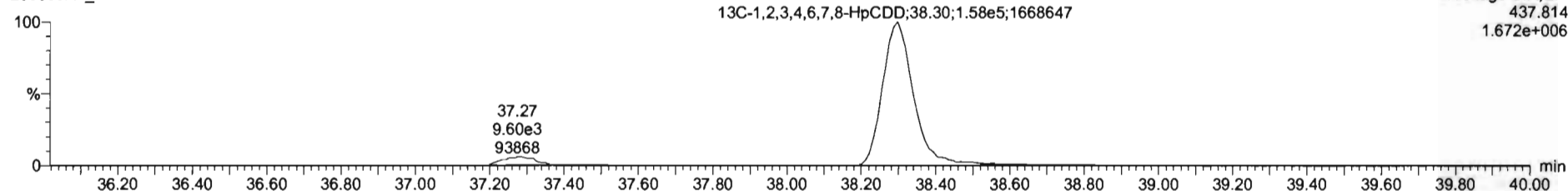


13C-1,2,3,4,6,7,8-HpCDD

200506R1_1



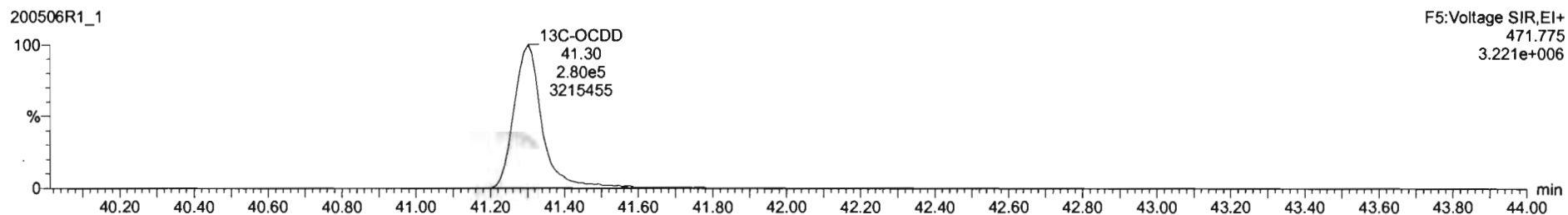
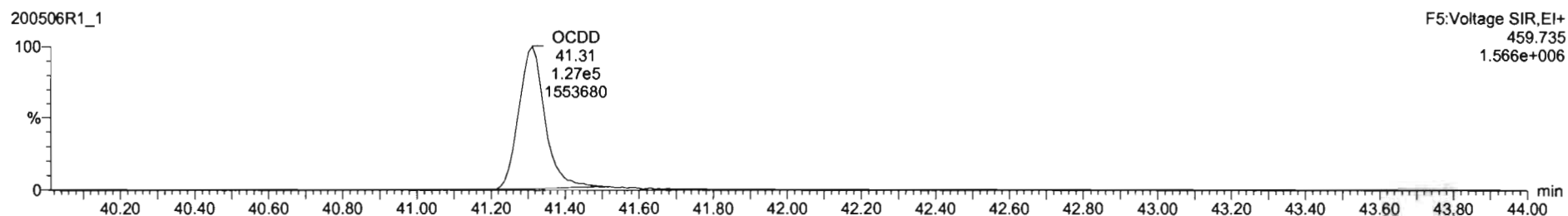
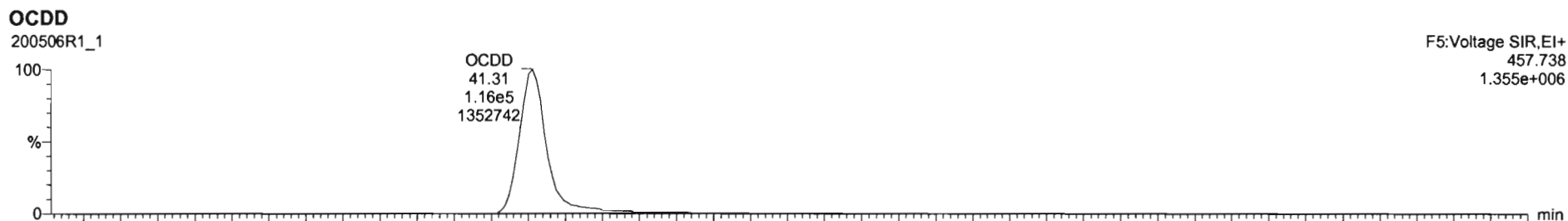
200506R1_1

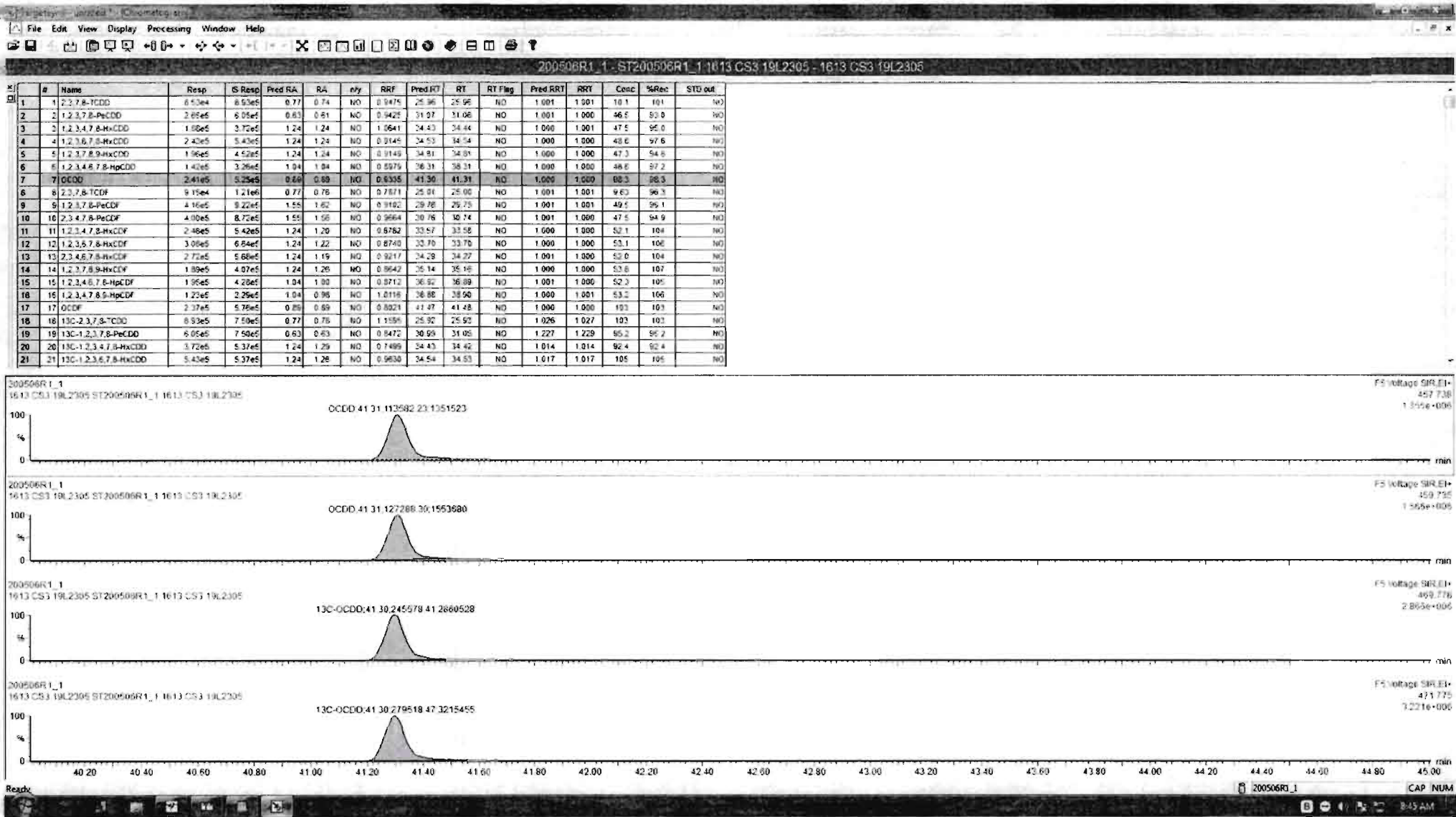


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Last Altered: Wednesday, May 06, 2020 8:48:57 AM Pacific Daylight Time
Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

Name: 200506R1_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



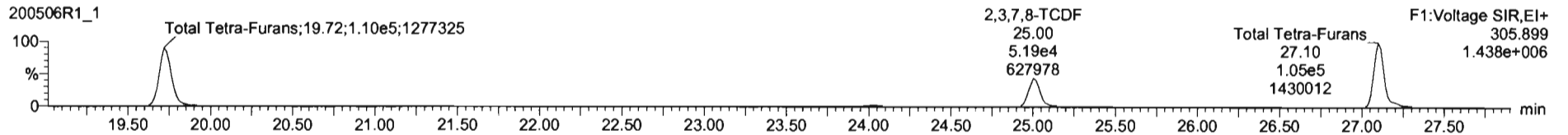
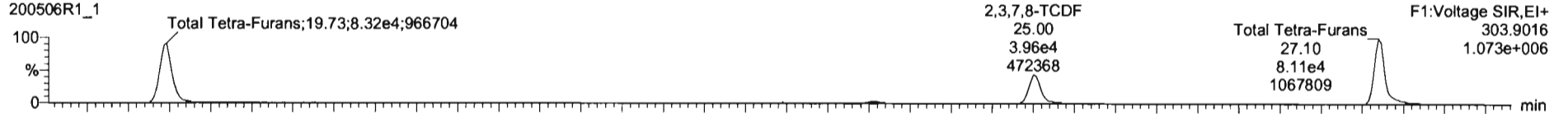


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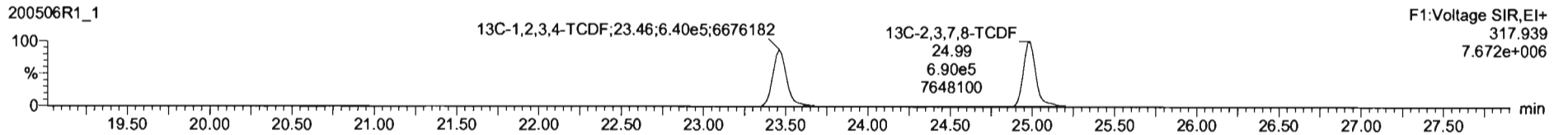
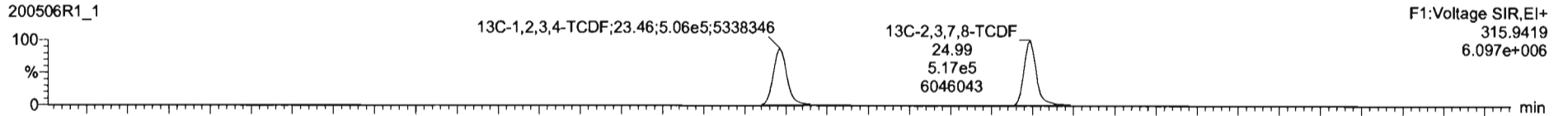
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Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

Name: 200506R1_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

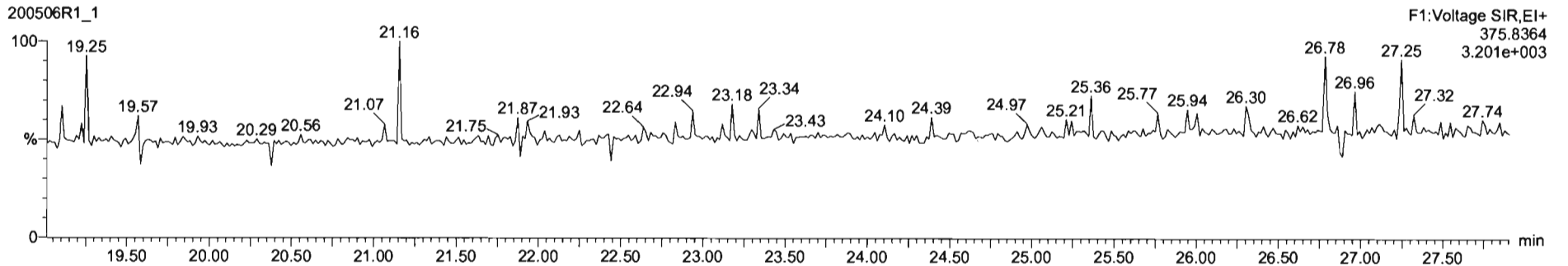
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

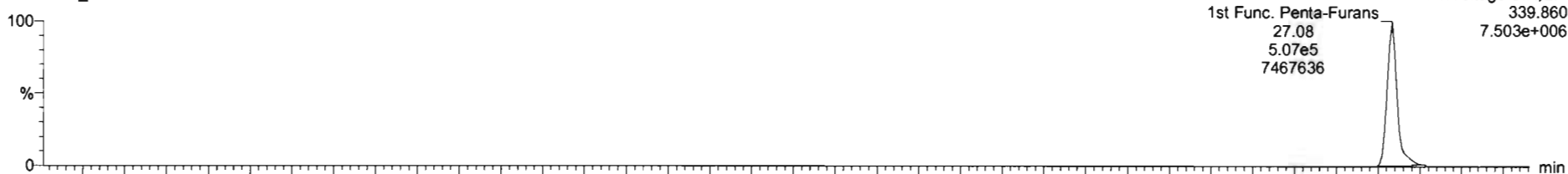
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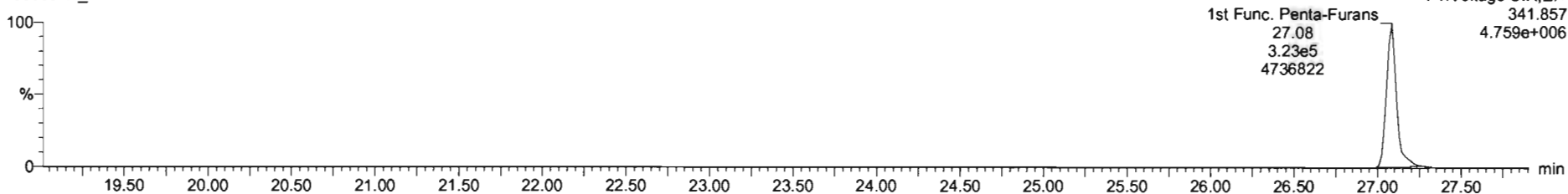
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1st Func. Penta-Furans

200506R1_1

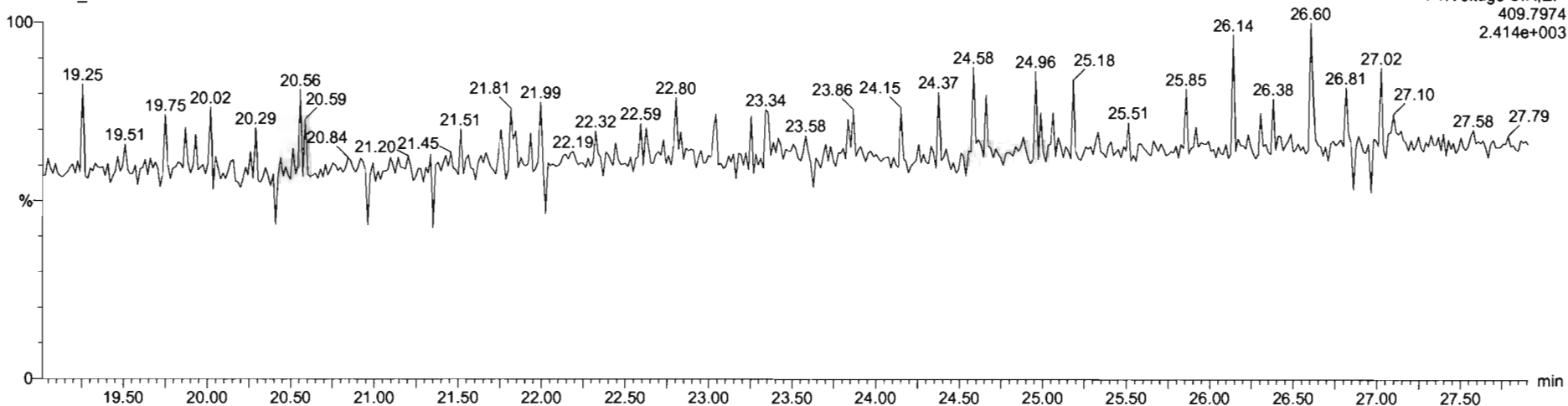


200506R1_1



DPE6

200506R1_1



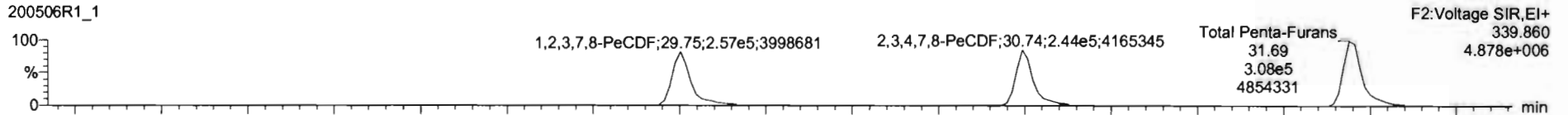
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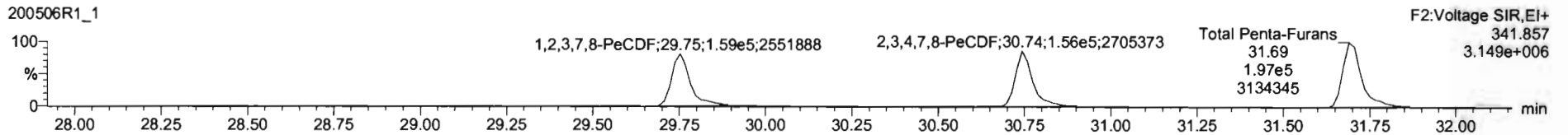
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1,2,3,7,8-PeCDF

200506R1_1

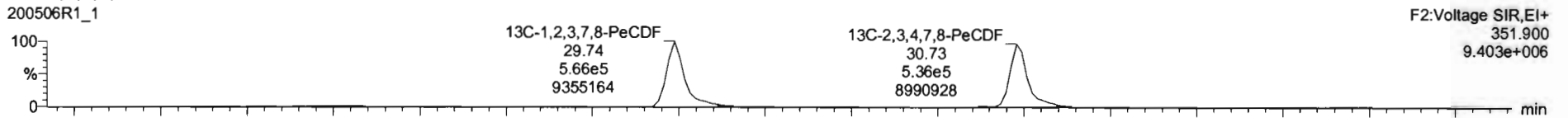


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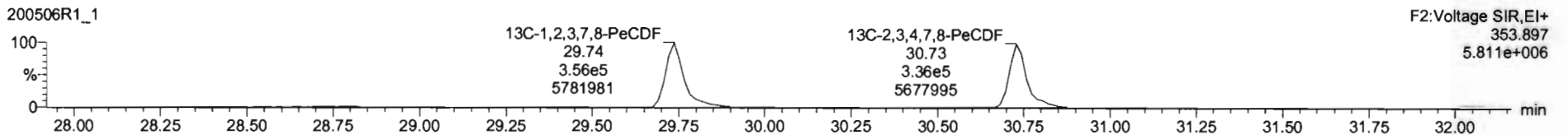


13C-1,2,3,7,8-PeCDF

200506R1_1

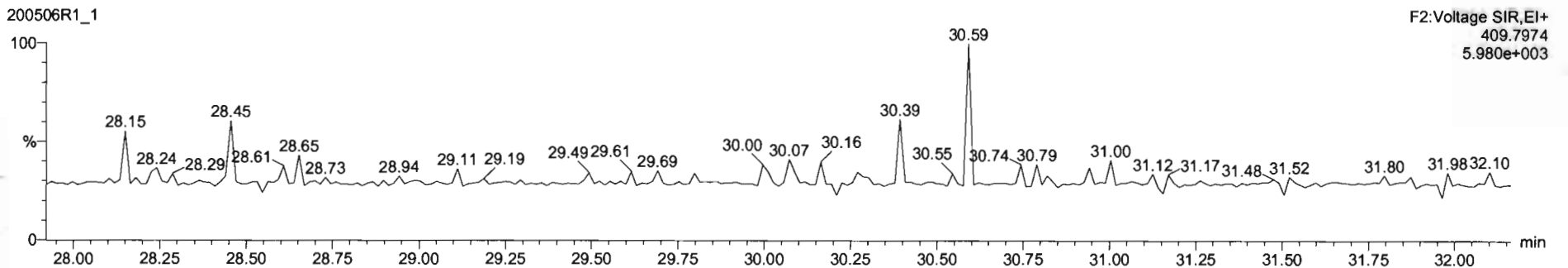


200506R1_1



DPE2

200506R1_1

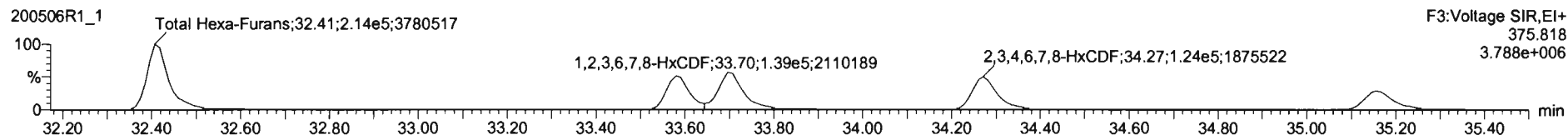
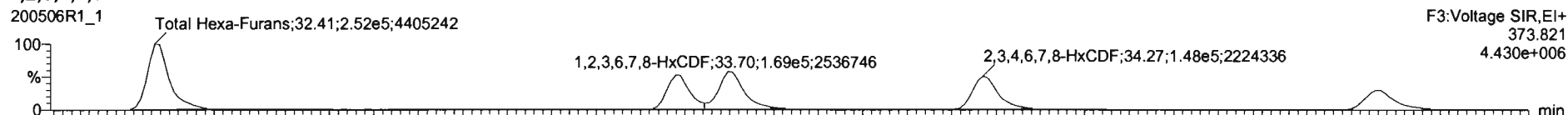


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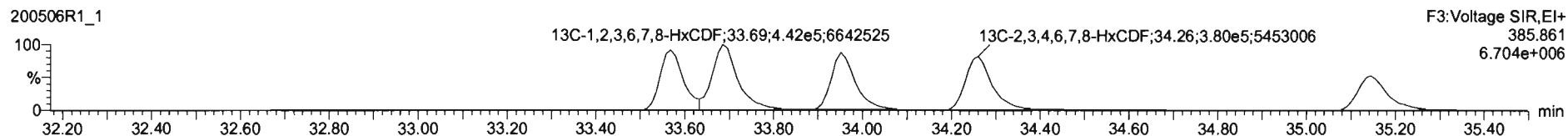
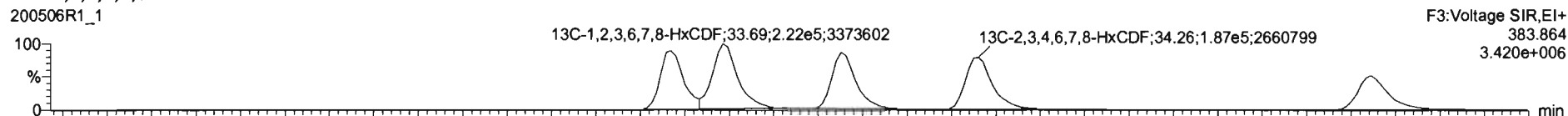
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Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

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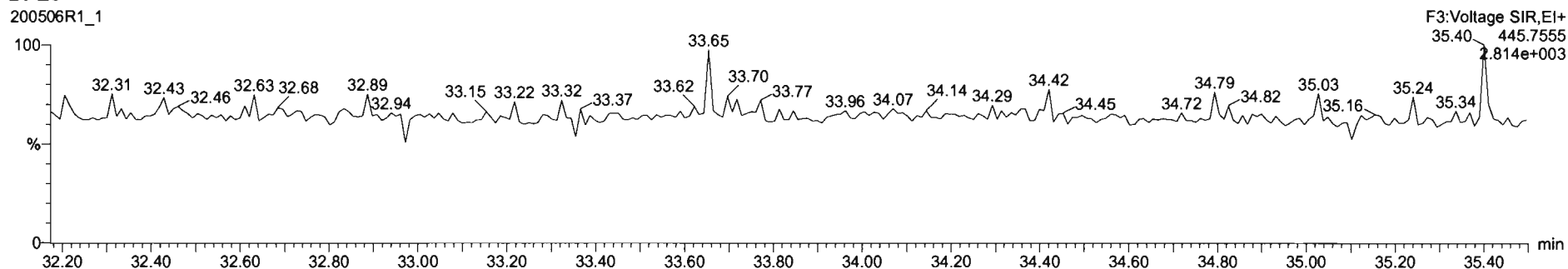
1,2,3,4,7,8-HxCDF



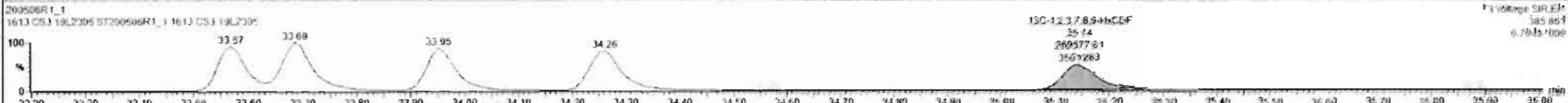
13C-1,2,3,4,7,8-HxCDF



DPE3



#	Name	Resp	S Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	8.53e4	8.53e5	0.77	0.74	NO	0.9475	25.96	25.96	NO	1.001	1.001	10.1	101	NO
2	1,2,3,7,8-PeCDD	2.85e5	6.95e5	0.63	0.61	NO	0.9425	31.07	31.06	NO	1.001	1.000	46.5	93.0	NO
3	1,2,3,4,7,8-HxCDD	1.86e5	3.72e5	1.24	1.24	NO	1.0641	34.43	34.44	NO	1.000	1.001	47.5	95.0	NO
4	1,2,3,6,7,8-HxCDD	2.43e5	5.43e5	1.24	1.24	NO	0.9145	34.53	34.54	NO	1.000	1.000	48.6	97.6	NO
5	1,2,3,7,8,9-HxCDD	1.96e5	4.52e5	1.24	1.24	NO	0.9149	34.81	34.81	NO	1.000	1.000	47.3	94.6	NO
6	1,2,3,4,6,7,8-HpCDD	1.42e5	3.26e5	1.04	1.04	NO	0.9979	38.31	38.31	NO	1.000	1.000	48.6	97.2	NO
7	OCDD	2.41e5	5.25e5	0.89	0.89	NO	0.9335	41.30	41.31	NO	1.000	1.000	98.3	96.3	NO
8	2,3,7,8-TCDF	9.15e4	1.21e5	0.77	0.76	NO	0.7371	25.01	25.00	NO	1.001	1.001	9.83	96.3	NO
9	1,2,3,7,8-PeCDF	4.16e5	9.22e5	1.55	1.42	NO	0.9102	29.78	29.75	NO	1.001	1.001	49.5	99.1	NO
10	2,3,4,7,8-PeCDF	4.00e5	8.72e5	1.55	1.56	NO	0.9964	30.76	30.74	NO	1.001	1.000	47.5	94.9	NO
11	1,2,3,4,7,8-HxCDF	2.46e5	5.42e5	1.24	1.20	NO	0.9782	33.57	33.58	NO	1.000	1.000	52.1	104	NO
12	1,2,3,6,7,8-HxCDF	3.06e5	6.84e5	1.24	1.22	NO	0.8740	33.70	33.70	NO	1.000	1.000	53.1	106	NO
13	1,2,3,4,6,7,8-HpCDF	2.72e5	5.68e5	1.24	1.19	NO	0.9217	34.79	34.77	NO	1.001	1.000	52.0	104	NO
14	1,2,3,7,8,9-HxCDF	1.87e5	4.67e5	1.24	1.23	NO	0.8642	35.14	35.15	NO	1.000	1.000	53.0	106	NO
15	1,2,3,4,6,7,8-HpCDF	1.95e5	4.28e5	1.04	1.00	NO	0.8712	36.92	36.89	NO	1.001	1.000	52.3	105	NO
16	1,2,3,4,7,8,9-HpCDF	1.23e5	2.29e5	1.04	0.96	NO	1.0116	38.80	38.90	NO	1.000	1.001	53.2	106	NO
17	OCDF	2.37e5	5.78e5	0.89	0.89	NO	0.8821	41.47	41.48	NO	1.000	1.000	103	103	NO
18	13C-2,3,7,8-TCDD	8.93e5	7.50e5	0.77	0.76	NO	1.1555	25.92	25.93	NO	1.026	1.027	103	103	NO
19	13C-1,2,3,7,8-PeCDD	5.05e5	7.50e5	0.63	0.63	NO	0.8472	30.59	31.05	NO	1.227	1.229	95.2	95.2	NO
20	13C-1,2,3,4,7,8-HxCDD	3.72e5	5.37e5	1.24	1.29	NO	0.7499	34.43	34.42	NO	1.014	1.014	92.4	92.4	NO
21	13C-1,2,3,6,7,8-HxCDD	5.43e5	5.37e5	1.24	1.26	NO	0.9630	34.54	34.53	NO	1.017	1.017	105	105	NO



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Printed: Wednesday, May 06, 2020 8:49:07 AM Pacific Daylight Time

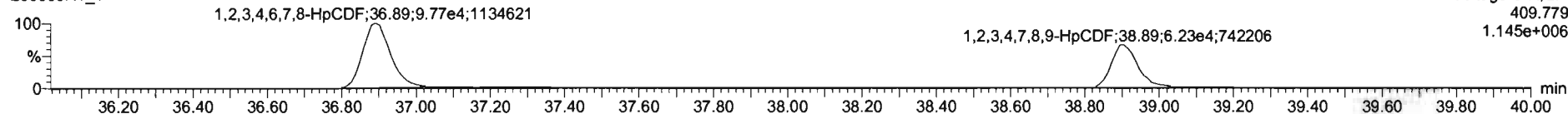
Name: 200506R1_1, Date: 06-May-2020, Time: 07:56:17, ID: ST200506R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200506R1_1

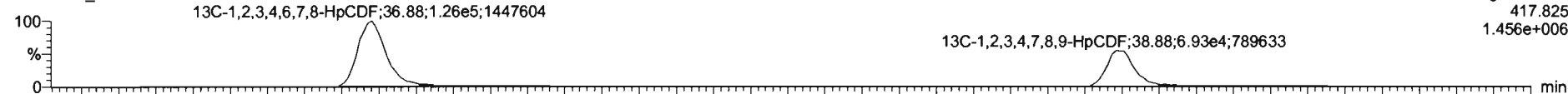


200506R1_1

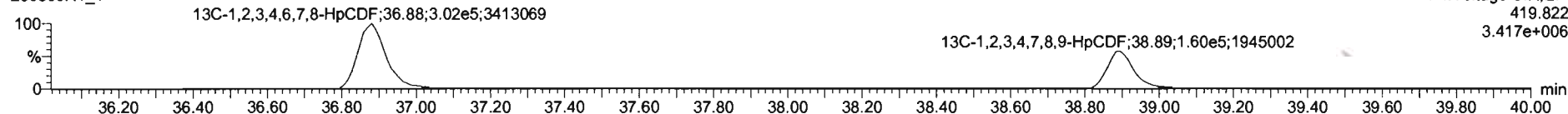


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200506R1_1

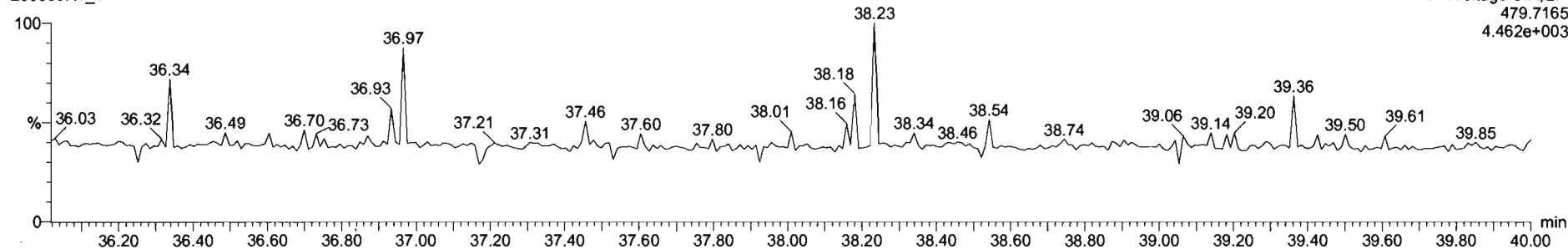


200506R1_1



DPE4

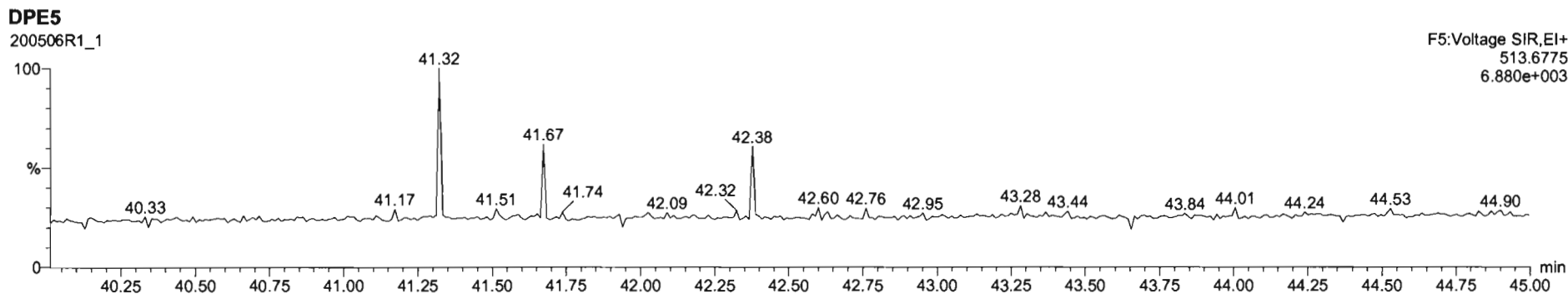
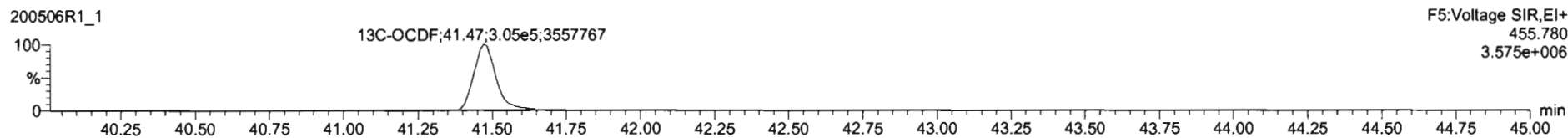
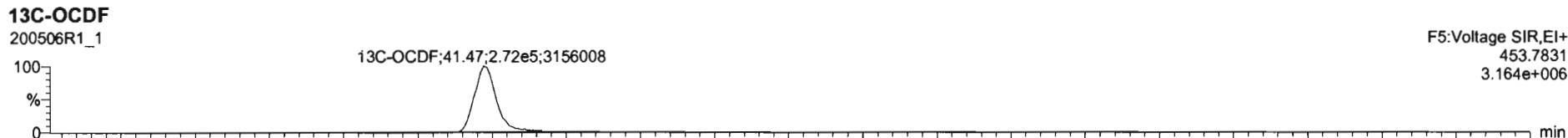
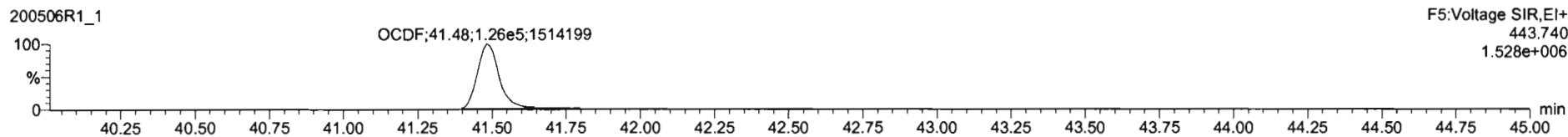
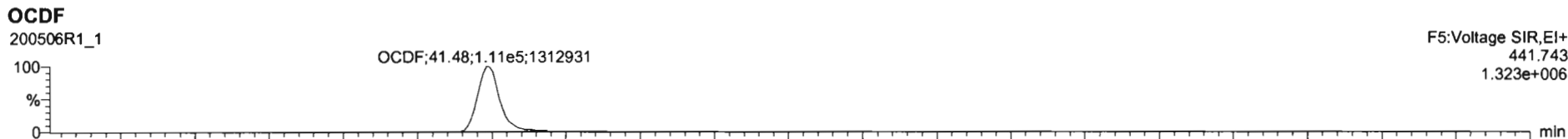
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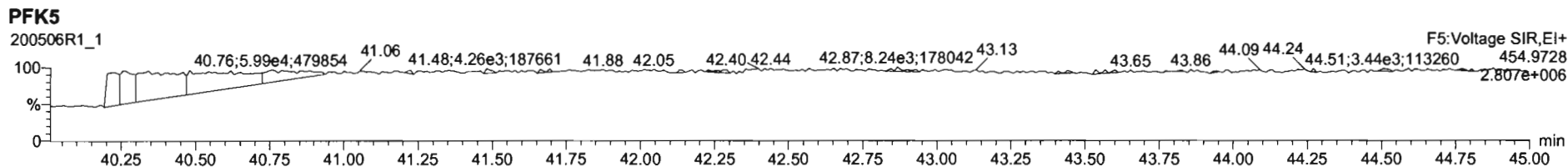
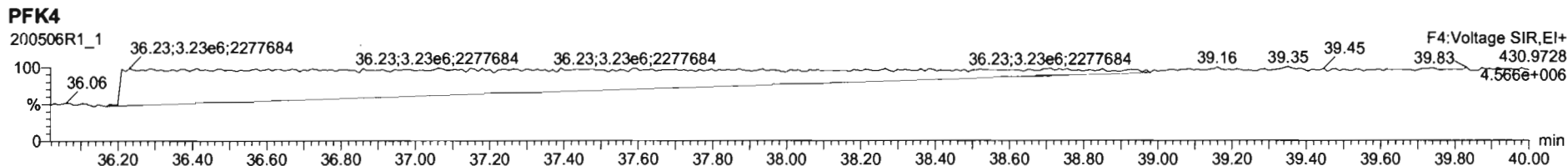
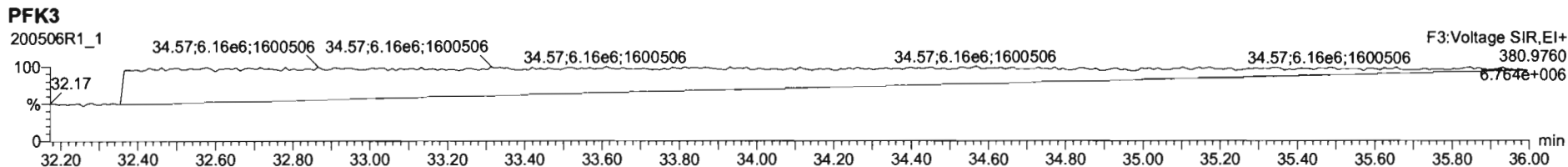
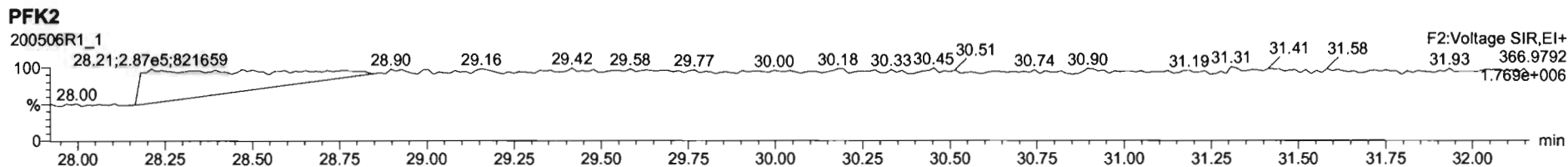
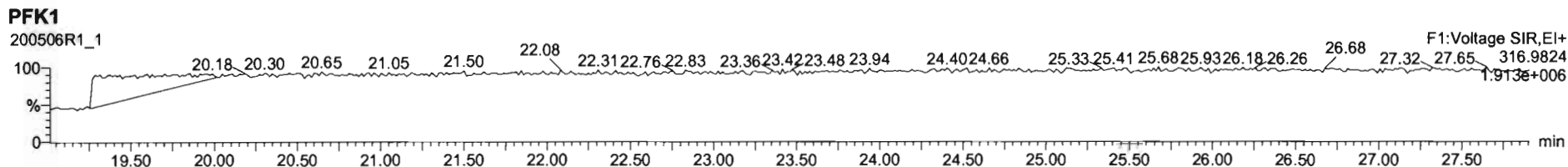
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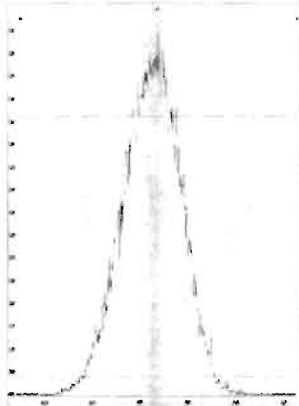
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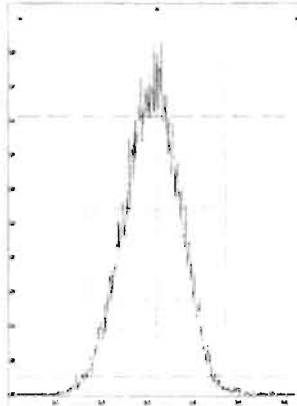
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Printed: Wednesday, May 06, 2020 13:32:16 Pacific Daylight Time

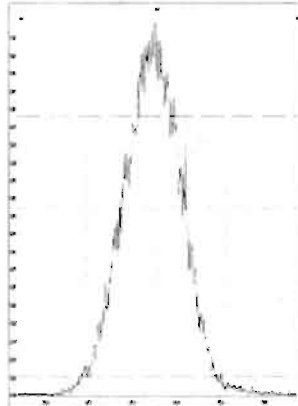
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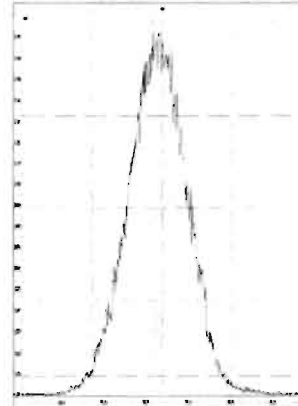
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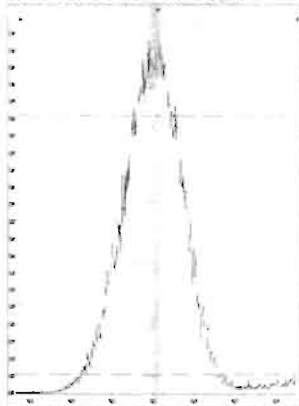
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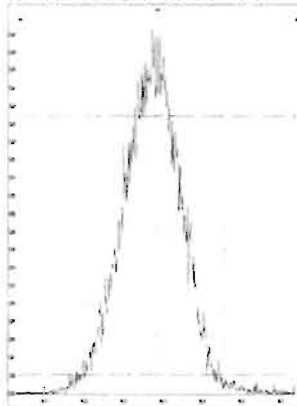
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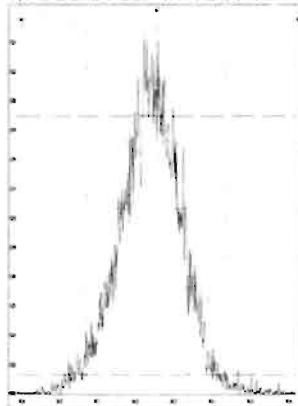
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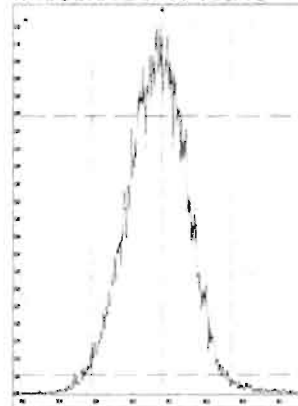
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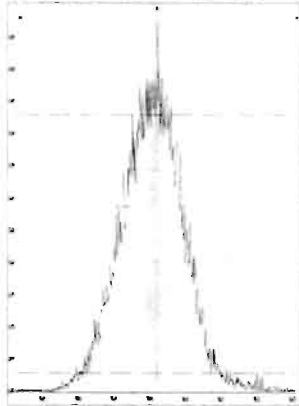
M 366.9792 R 10871



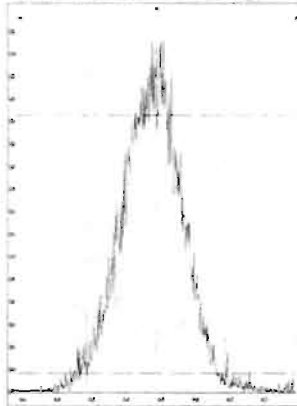
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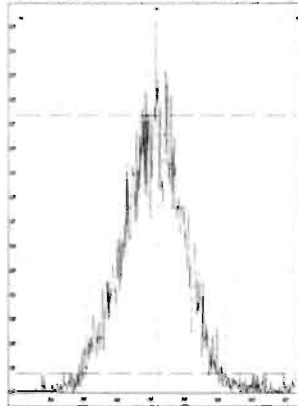
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M 404.9760 R 10822



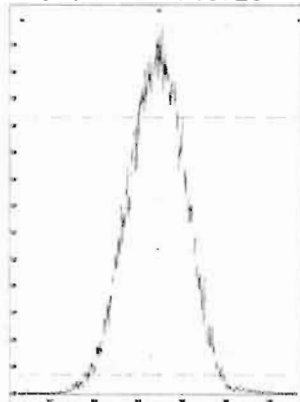
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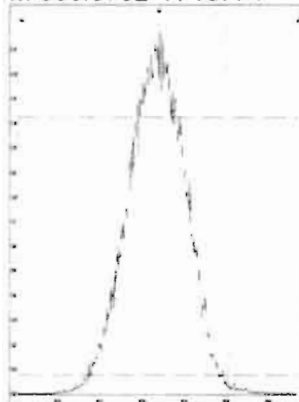
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Printed: Wednesday, May 06, 2020 13:32:41 Pacific Daylight Time

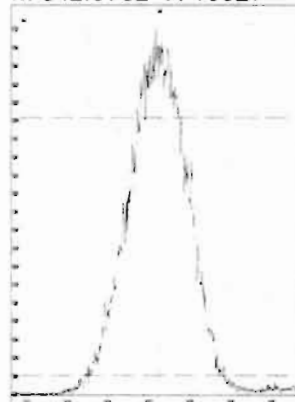
M 318.9792 R 10725



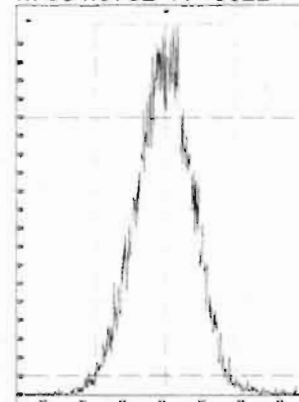
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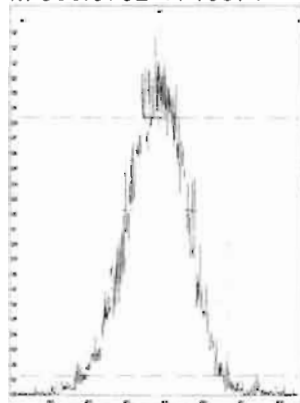
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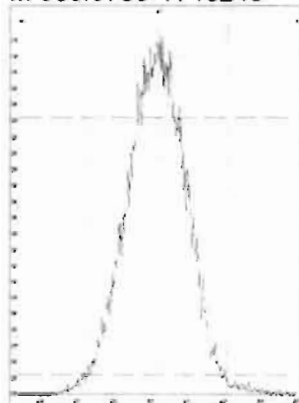
M 354.9792 R 10822



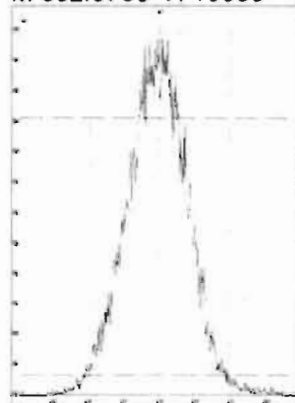
M 366.9792 R 10871



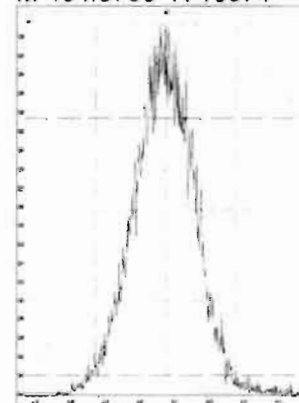
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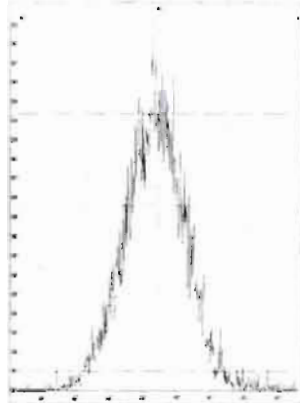
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M 404.9760 R 10374



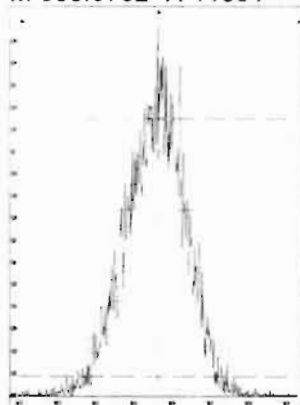
M 416.9760 R 11210



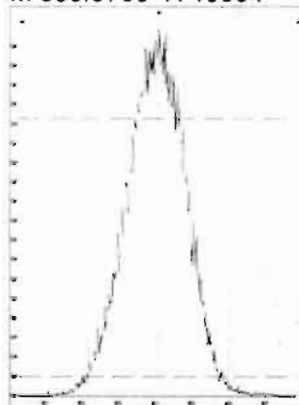
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Printed: Wednesday, May 06, 2020 13:33:07 Pacific Daylight Time

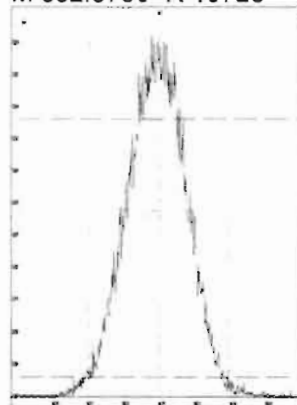
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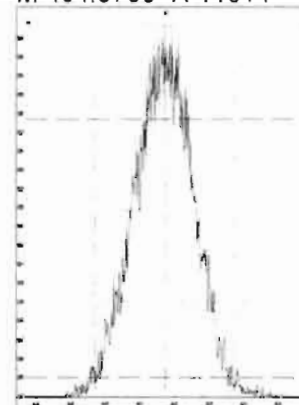
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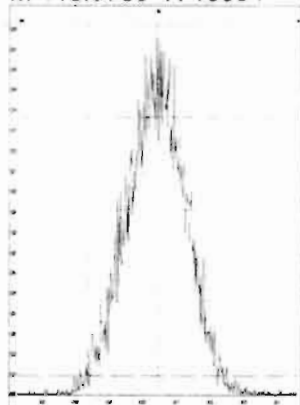
M 392.9760 R 10728



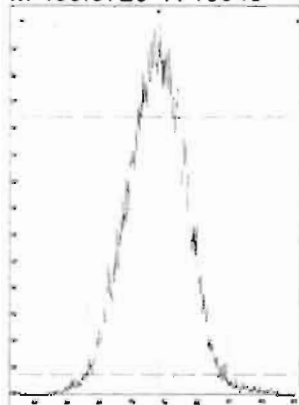
M 404.9760 R 11014



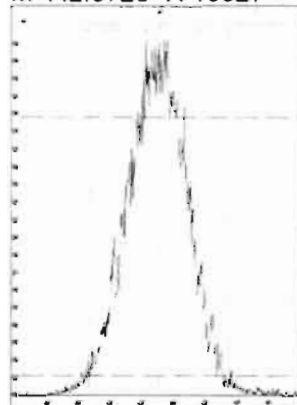
M 416.9760 R 10964



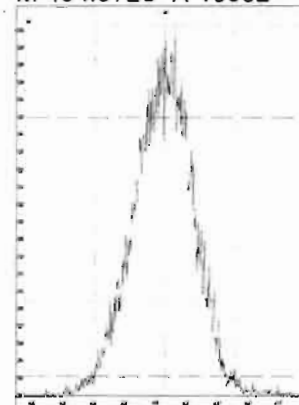
M 430.9728 R 10546



M 442.9728 R 10327



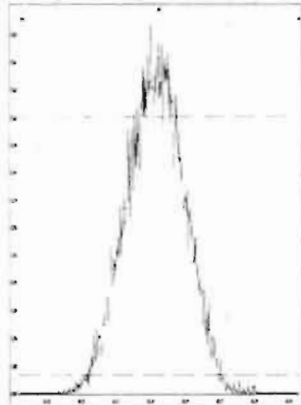
M 454.9728 R 10592



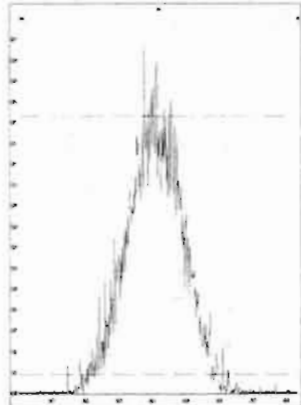
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 13:33:38 Pacific Daylight Time

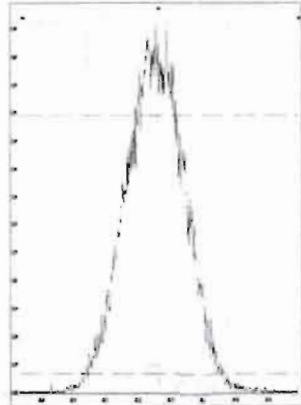
M 404.9760 R 10820



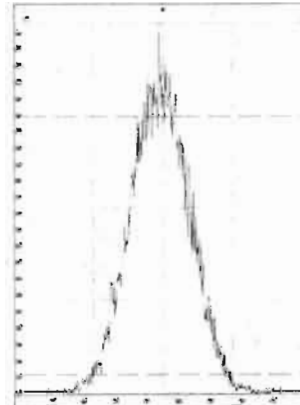
M 416.9760 R 11161



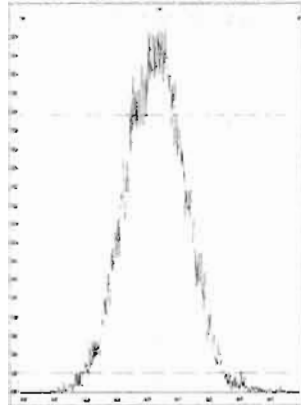
M 430.9728 R 10507



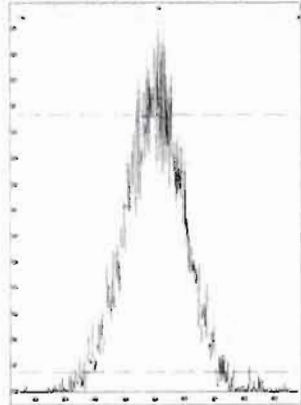
M 442.9728 R 10461



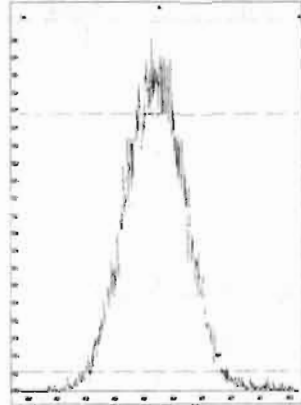
M 454.9728 R 10460



M 466.9728 R 10731



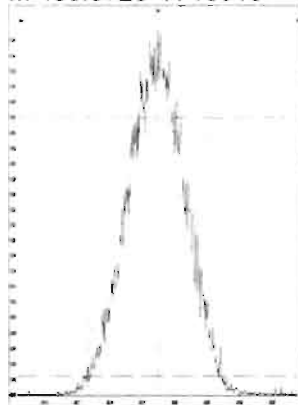
M 480.9696 R 10081



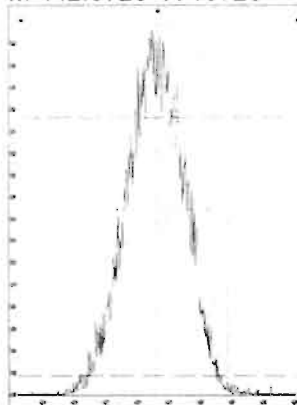
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Wednesday, May 06, 2020 13:33:59 Pacific Daylight Time

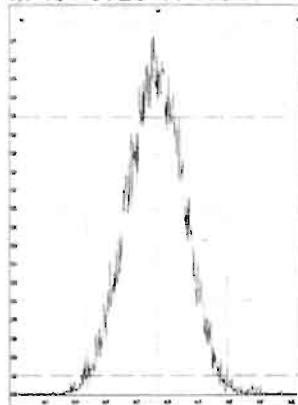
M 430.9728 R 10819



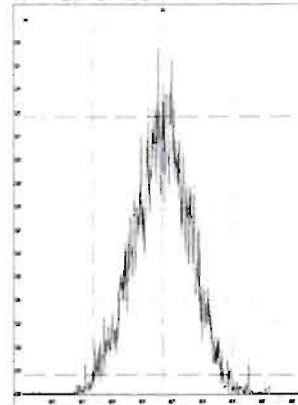
M 442.9728 R 10728



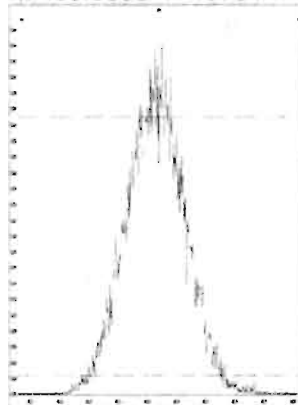
M 454.9728 R 11014



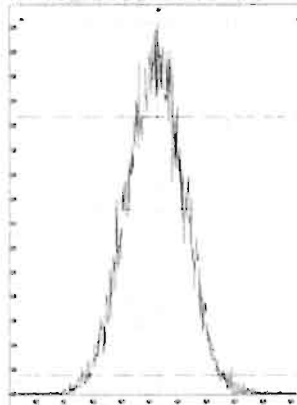
M 466.9728 R 11111



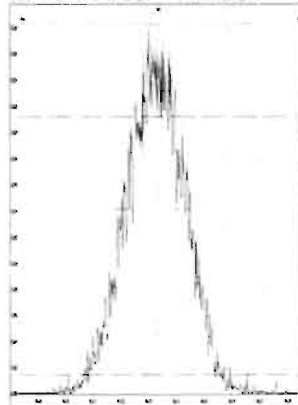
M 480.9696 R 10731



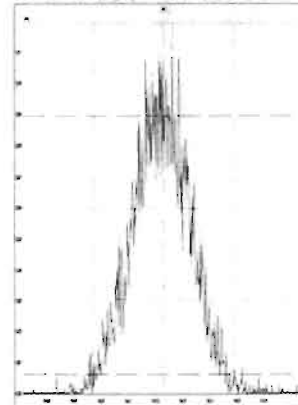
M 492.9696 R 10460



M 504.9696 R 11061



M 516.9697 R 10684



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200516R1-1

Reviewed By: CT 05/18/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Retention Times within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Verification Std. named correctly? (ST-Year-Month-Day-VG ID)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Forms signed and dated?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correct ICAL referenced?	<u>GPB</u>	<input type="checkbox"/>
<u>Run Log:</u>		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>↓</u>
- Samples within 12 hour clock?	<u>(Y)</u>	N
- Bottle position verified?	<u>GPB</u>	<input type="checkbox"/>

Mass resolution ≥

5k 6-8K 8K 10K
 1614 1699 429 1613/1668/8280

Intergrated peaks display correctly?

GC Break <20%

NA

8280 CS1 End Standard:

- Ratios within limits, S/N <2.5:1, CS1 within 12 hours

Comments:

<u>Beg.</u>	<u>End</u>
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/> <u>NA</u>
<input type="checkbox"/>	<input type="checkbox"/> <u>NA</u>

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-1.qld

Last Altered: Saturday, May 16, 2020 10:02:05 Pacific Daylight Time
Printed: Saturday, May 16, 2020 10:02:29 Pacific Daylight Time

GRB 05/16/2020

C7 05/18/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.53e5	1.75e6	0.75	NO	0.947	26.08	26.08	NO	1.001	1.001	9.2283	92.3	NO
2	2 1,2,3,7,8-PeCDD	5.83e5	1.36e6	0.62	NO	0.942	31.16	31.16	NO	1.001	1.000	45.440	90.9	NO
3	3 1,2,3,4,7,8-HxCDD	4.84e5	9.39e5	1.24	NO	1.06	34.53	34.54	NO	1.000	1.001	48.449	96.9	NO
4	4 1,2,3,6,7,8-HxCDD	5.93e5	1.27e6	1.31	NO	0.915	34.62	34.63	NO	1.000	1.000	51.116	102	NO
5	5 1,2,3,7,8,9-HxCDD	4.78e5	1.06e6	1.32	NO	0.915	34.91	34.91	NO	1.000	1.000	49.075	98.2	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.40e5	7.73e5	1.01	NO	0.898	38.40	38.41	NO	1.000	1.001	49.046	98.1	NO
7	7 OCDD	6.89e5	1.43e6	0.89	NO	0.933	41.39	41.40	NO	1.000	1.000	102.95	103	NO
8	8 2,3,7,8-TCDF	1.80e5	2.32e6	0.74	NO	0.787	25.15	25.14	NO	1.001	1.001	9.8786	98.8	NO
9	9 1,2,3,7,8-PeCDF	8.79e5	1.95e6	1.56	NO	0.910	29.85	29.84	NO	1.001	1.001	49.626	99.3	NO
10	10 2,3,4,7,8-PeCDF	9.15e5	1.97e6	1.55	NO	0.966	30.87	30.85	NO	1.001	1.000	48.000	96.0	NO
11	11 1,2,3,4,7,8-HxCDF	5.80e5	1.26e6	1.22	NO	0.878	33.65	33.66	NO	1.000	1.000	52.433	105	NO
12	12 1,2,3,6,7,8-HxCDF	7.33e5	1.58e6	1.22	NO	0.874	33.78	33.79	NO	1.000	1.001	52.991	106	NO
13	13 2,3,4,6,7,8-HxCDF	6.50e5	1.32e6	1.19	NO	0.922	34.39	34.37	NO	1.001	1.000	53.374	107	NO
14	14 1,2,3,7,8,9-HxCDF	4.75e5	1.04e6	1.22	NO	0.864	35.24	35.26	NO	1.000	1.001	52.870	106	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.59e5	9.60e5	1.02	NO	0.871	37.01	36.99	NO	1.001	1.000	54.839	110	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.40e5	6.08e5	0.99	NO	1.01	38.98	38.99	NO	1.000	1.000	55.240	110	NO
17	17 OCDF	7.50e5	1.79e6	0.88	NO	0.802	41.57	41.58	NO	1.000	1.000	104.32	104	NO
18	18 13C-2,3,7,8-TCDD	1.75e6	1.48e6	0.78	NO	1.16	26.05	26.05	NO	1.026	1.027	102.16	102	NO
19	19 13C-1,2,3,7,8-PeCDD	1.36e6	1.48e6	0.64	NO	0.847	31.14	31.14	NO	1.227	1.227	108.81	109	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.39e5	1.34e6	1.28	NO	0.750	34.53	34.52	NO	1.014	1.014	93.476	93.5	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.27e6	1.34e6	1.26	NO	0.963	34.64	34.62	NO	1.017	1.017	98.386	98.4	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.06e6	1.34e6	1.22	NO	0.838	34.91	34.90	NO	1.025	1.025	94.769	94.8	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	7.73e5	1.34e6	1.04	NO	0.641	38.40	38.39	NO	1.128	1.128	89.894	89.9	NO
24	24 13C-OCDD	1.43e6	1.34e6	0.91	NO	0.586	41.40	41.39	NO	1.216	1.216	182.54	91.3	NO
25	25 13C-2,3,7,8-TCDF	2.32e6	2.19e6	0.78	NO	1.03	25.10	25.12	NO	0.989	0.990	102.48	102	NO
26	26 13C-1,2,3,7,8-PeCDF	1.95e6	2.19e6	1.56	NO	0.845	29.83	29.83	NO	1.176	1.175	105.23	105	NO
27	27 13C-2,3,4,7,8-PeCDF	1.97e6	2.19e6	1.57	NO	0.814	30.82	30.83	NO	1.215	1.215	110.76	111	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.26e6	1.34e6	0.51	NO	1.00	33.67	33.65	NO	0.989	0.988	93.535	93.5	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.58e6	1.34e6	0.51	NO	1.14	33.79	33.77	NO	0.992	0.992	103.94	104	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.32e6	1.34e6	0.51	NO	1.02	34.36	34.36	NO	1.009	1.009	96.459	96.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.04e6	1.34e6	0.51	NO	0.845	35.25	35.24	NO	1.035	1.035	91.941	91.9	NO

Dataset: U:\VG12.PRO\Results\200516R1\200516R1-1.qld

Last Altered: Saturday, May 16, 2020 10:02:05 Pacific Daylight Time
Printed: Saturday, May 16, 2020 10:02:29 Pacific Daylight Time

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	13C-1,2,3,4,6,7,8-HpCDF	9.60e5	1.34e6	0.43	NO	0.771	36.98	36.98	NO	1.086	1.086	92.930	92.9	NO
33	13C-1,2,3,4,7,8,9-HpCDF	6.08e5	1.34e6	0.43	NO	0.482	38.99	38.98	NO	1.145	1.145	94.137	94.1	NO
34	13C-OCDF	1.79e6	1.34e6	0.88	NO	0.669	41.57	41.57	NO	1.221	1.221	200.05	100	NO
35	37Cl-2,3,7,8-TCDD	1.62e5	1.48e6			1.10	26.08	26.06	NO	1.028	1.027	10.021	100	NO
36	13C-1,2,3,4-TCDD	1.48e6	1.48e6	0.80	NO	1.00	25.35	25.38	NO	1.000	1.000	100.00	100	NO
37	13C-1,2,3,4-TCDF	2.19e6	2.19e6	0.79	NO	1.00	23.56	23.59	NO	1.000	1.000	100.00	100	NO
38	13C-1,2,3,4,6,9-HxCDF	1.34e6	1.34e6	0.51	NO	1.00	34.00	34.05	NO	1.000	1.000	100.00	100	YES <i>ok</i>

Dataset: Untitled

Last Altered: Monday, May 18, 2020 07:30:52 Pacific Daylight Time

Printed: Monday, May 18, 2020 07:31:50 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200516R1_1	ST200516R1_1 1613 CS3 19L2305	16-May-20	09:10:37
2	200516R1_2	SOLVENT BLANK	16-May-20	09:57:46
3	200516R1_3	2000946-01 PDI-162SC-A-00-01-200424 19.45	16-May-20	10:44:33
4	200516R1_4	2000946-02 PDI-162SC-A-02-03-200424 19.14	16-May-20	11:30:44
5	200516R1_5	2000946-03 PDI-162SC-A-03-04-200424 13.48	16-May-20	12:16:55
6	200516R1_6	2000946-04 PDI-162SC-A-04-05-200424 11.77	16-May-20	13:03:05
7	200516R1_7	2000946-05 PDI-162SC-A-05-06-200424 11.48	16-May-20	13:49:17
8	200516R1_8	2000946-06 PDI-162SC-A-06-07-200424 11.93	16-May-20	14:35:29
9	200516R1_9	2000946-07 PDI-162SC-A-07-08-200424 12.09	16-May-20	15:21:39
10	200516R1_10	2000946-08 PDI-162SC-A-08-09-200424 13.13	16-May-20	16:07:53
11	200516R1_11	2000950-01 PDI-1156SC-A-02-03-200423 12.74	16-May-20	16:54:05
12	200516R1_12	2000950-02 PDI-156SC-A-00-01-200423 11.13	16-May-20	17:40:15
13	200516R1_13	2000950-03 PDI-156SC-A-01-02-200423 11.3	16-May-20	18:26:28
14	200516R1_14	B0E0015-DUP1 Duplicate 11.36	16-May-20	19:12:40
15	200516R1_15	2000950-04 PDI-156SC-A-02-03-200423 12.29	16-May-20	19:58:50
16	200516R1_16	2000950-05 PDI-156SC-A-03-04-200423 11.97	16-May-20	20:45:02

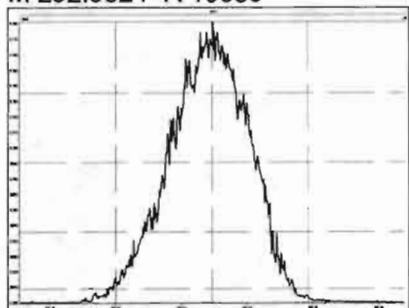
Experiment Calibration Report

MassLynx 4.1 SCN815

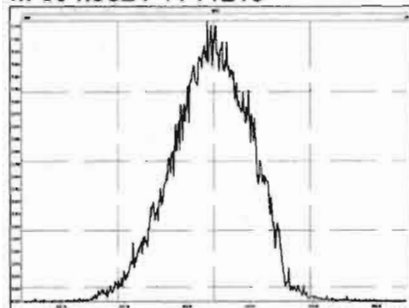
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Saturday, May 16, 2020 09:02:03 Pacific Daylight Time

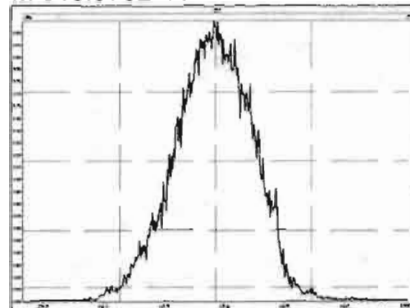
M 292.9824 R 10689



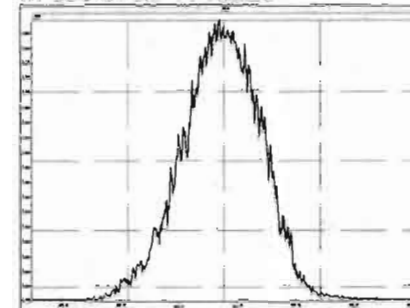
M 304.9824 R 11213



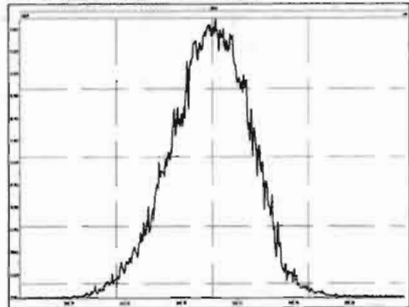
M 318.9792 R 11211



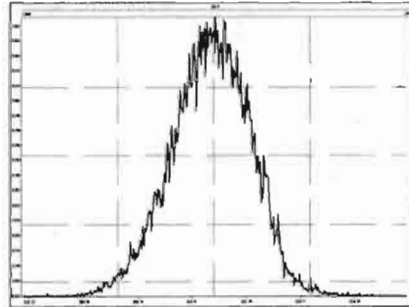
M 330.9792 R 10826



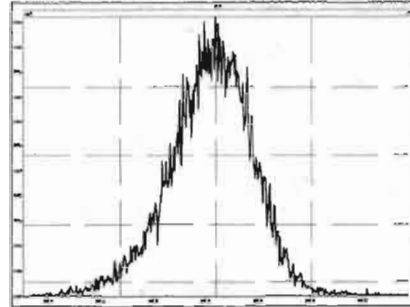
M 342.9792 R 10501



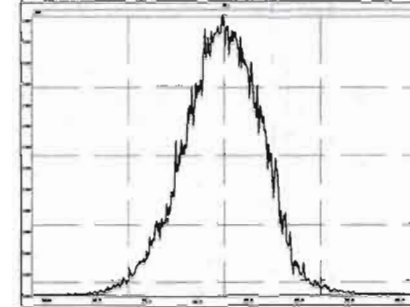
M 354.9792 R 10637



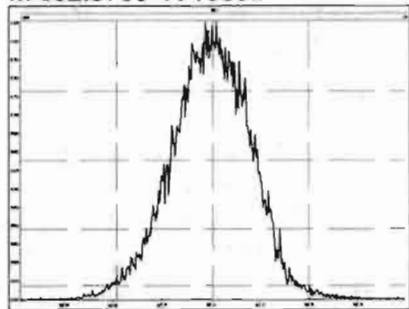
M 366.9792 R 10590



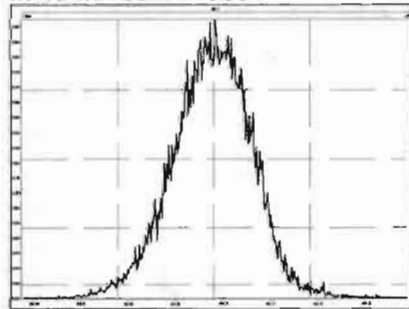
M 380.9760 R 10870



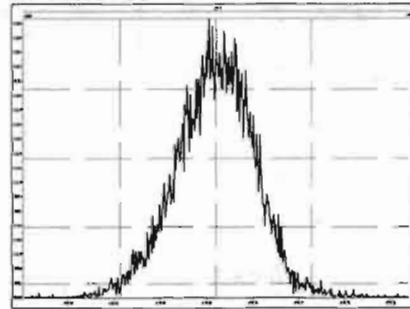
M 392.9760 R 10506



M 404.9760 R 10684



M 416.9760 R 11110



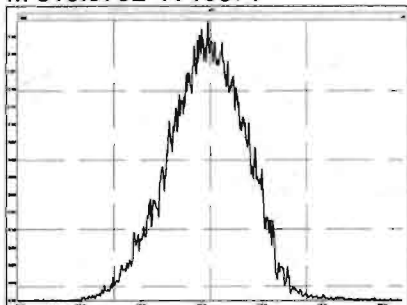
Experiment Calibration Report

MassLynx 4.1 SCN815

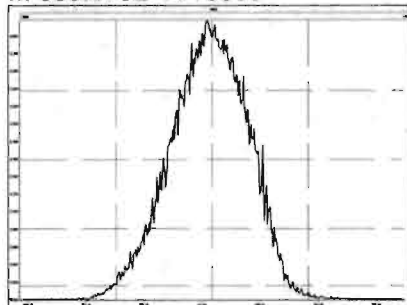
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Saturday, May 16, 2020 09:02:41 Pacific Daylight Time

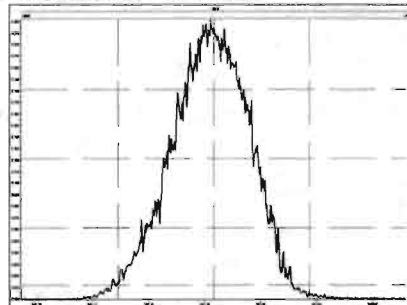
M 318.9792 R 10871



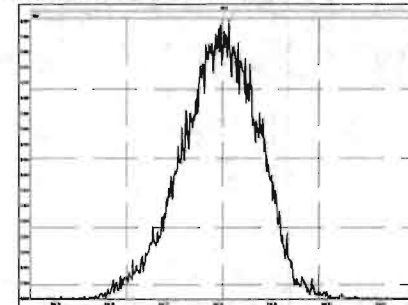
M 330.9792 R 10869



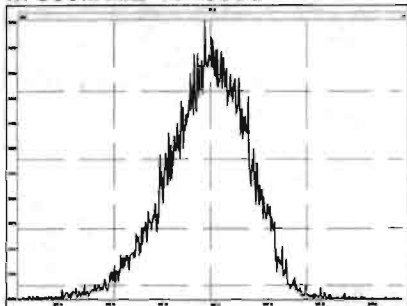
M 342.9792 R 10967



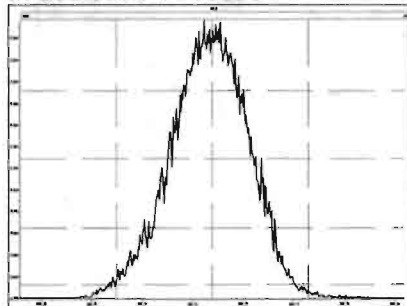
M 354.9792 R 10460



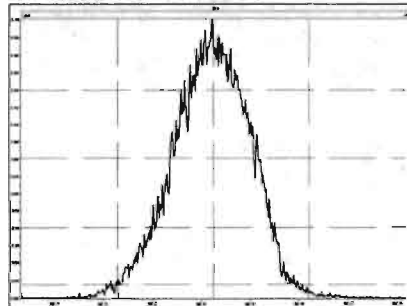
M 366.9792 R 10636



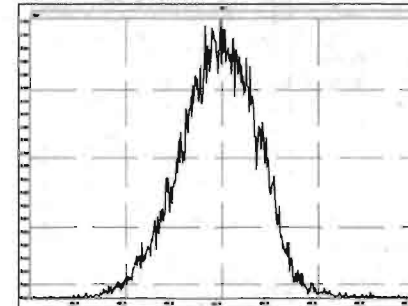
M 380.9760 R 10685



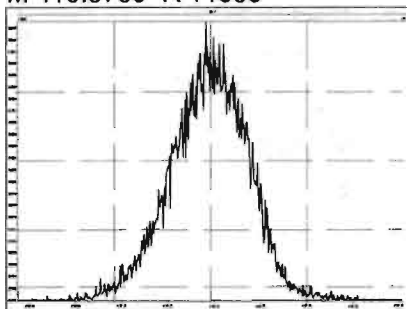
M 392.9760 R 10826



M 404.9760 R 11112



M 416.9760 R 11363



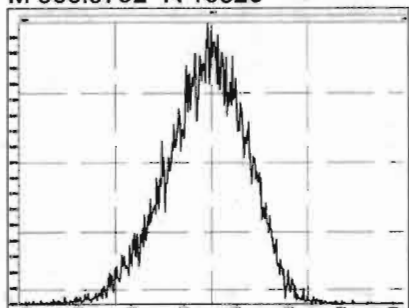
Experiment Calibration Report

MassLynx 4.1 SCN815

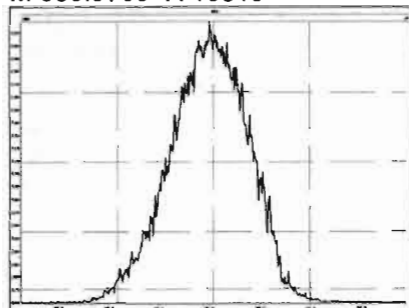
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Saturday, May 16, 2020 09:03:16 Pacific Daylight Time

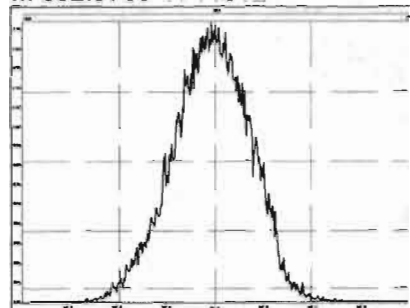
M 366.9792 R 10825



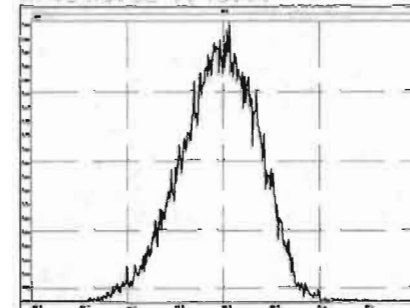
M 380.9760 R 10819



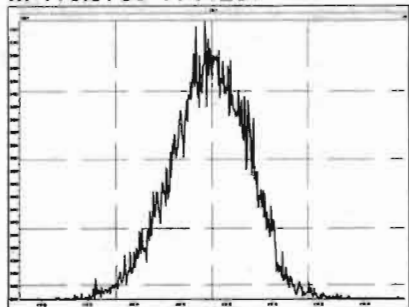
M 392.9760 R 11012



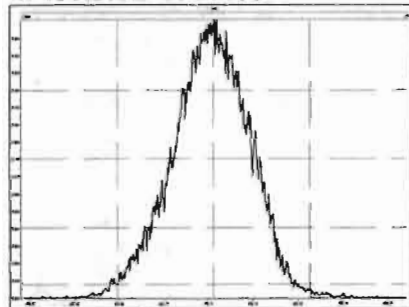
M 404.9760 R 10777



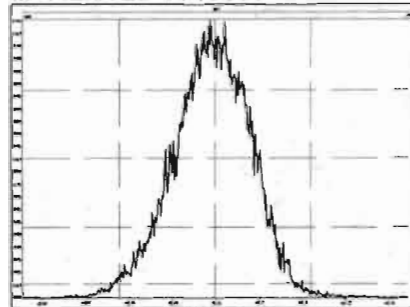
M 416.9760 R 11261



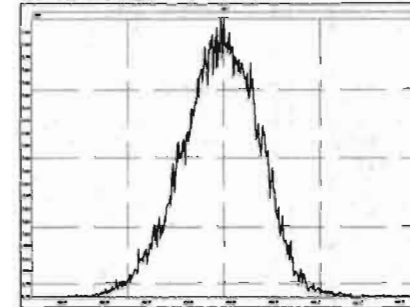
M 430.9728 R 11109



M 442.9728 R 10639



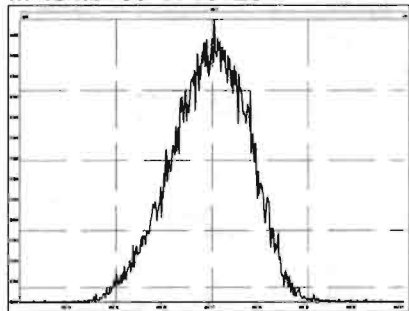
M 454.9728 R 11414



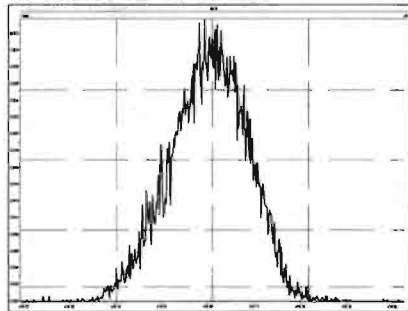
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Saturday, May 16, 2020 09:03:53 Pacific Daylight Time

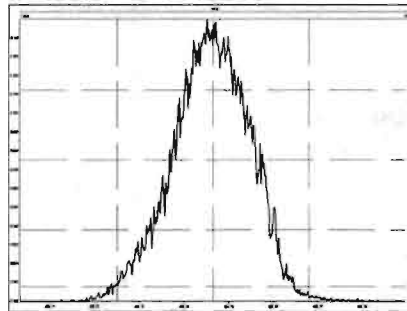
M 404.9760 R 10728



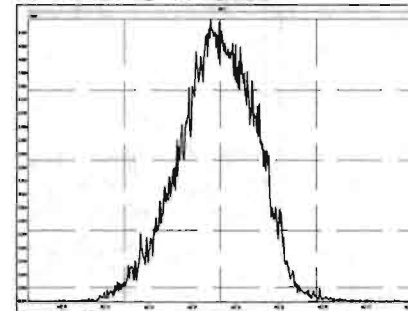
M 416.9760 R 11262



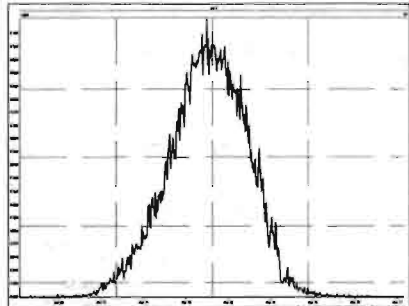
M 430.9728 R 10548



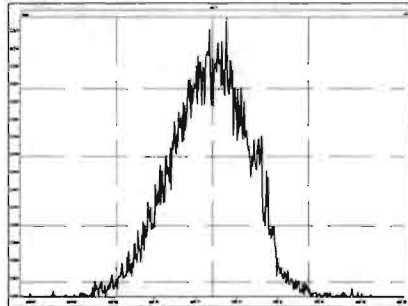
M 442.9728 R 10963



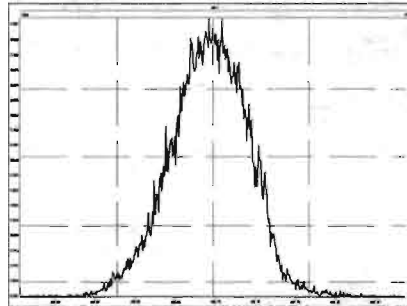
M 454.9728 R 10548



M 466.9728 R 10967



M 480.9696 R 10639



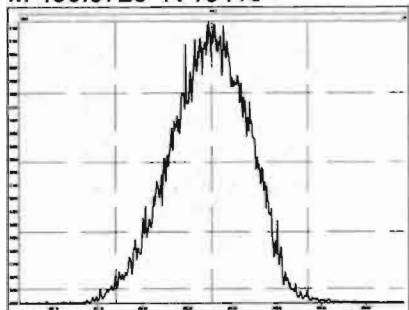
Experiment Calibration Report

MassLynx 4.1 SCN815

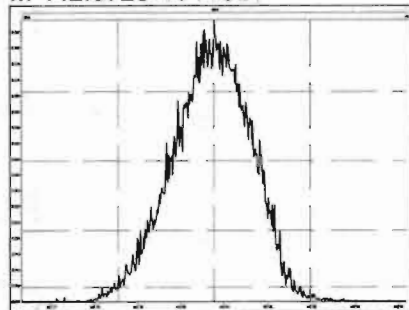
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Saturday, May 16, 2020 09:04:34 Pacific Daylight Time

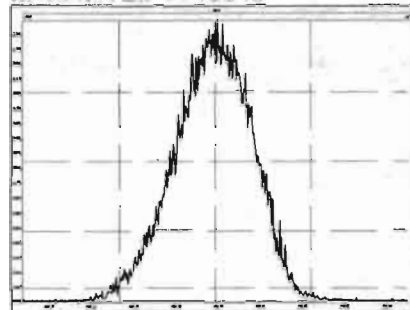
M 430.9728 R 10418



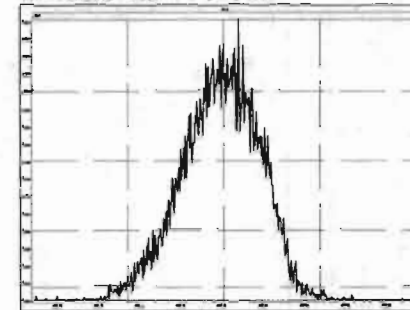
M 442.9728 R 11061



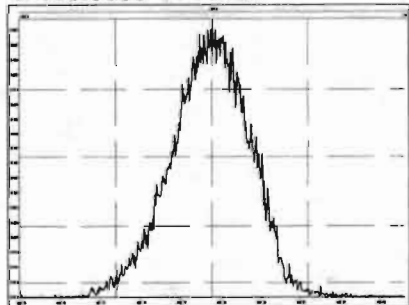
M 454.9728 R 10919



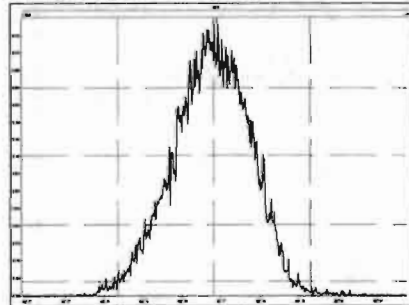
M 466.9728 R 11793



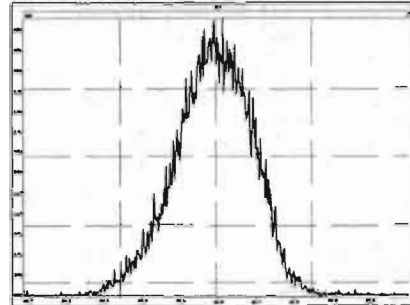
M 480.9696 R 11467



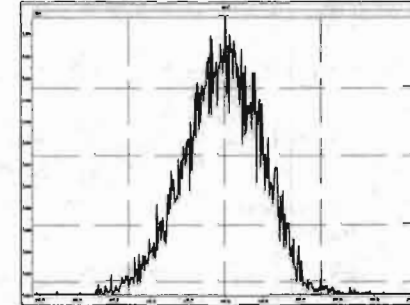
M 492.9696 R 10966



M 504.9696 R 10916



M 516.9697 R 11906



Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Saturday, May 16, 2020 10:02:46 Pacific Daylight Time

Printed: Saturday, May 16, 2020 10:03:05 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1,3,6,8-TCDD (First)	21.90
2	1,2,8,9-TCDD (Last)	27.07
3	1,2,4,7,9-PeCDD (First)	28.90
4	1,2,3,8,9-PeCDD (Last)	31.54
5	1,2,4,6,7,9-HxCDD (First)	33.05
6	1,2,3,7,8,9-HxCDD (Last)	34.91
7	1,2,3,4,6,7,9-HpCDD (First)	37.38
8	1,2,3,4,6,7,8-HpCDD (Last)	38.41
9	1,3,6,8-TCDF (First)	19.82
10	1,2,8,9-TCDF (Last)	27.22
11	1,3,4,6,8-PeCDF (First)	27.17
12	1,2,3,8,9-PeCDF (Last)	31.78
13	1,2,3,4,6,8-HxCDF (First)	32.49
14	1,2,3,7,8,9-HxCDF (Last)	35.26
15	1,2,3,4,6,7,8-HpCDF (First)	36.99
16	1,2,3,4,7,8,9-HpCDF (Last)	38.99

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Saturday, May 16, 2020 10:02:46 Pacific Daylight Time

Printed: Saturday, May 16, 2020 10:03:05 Pacific Daylight Time

GRB 05/16/2020

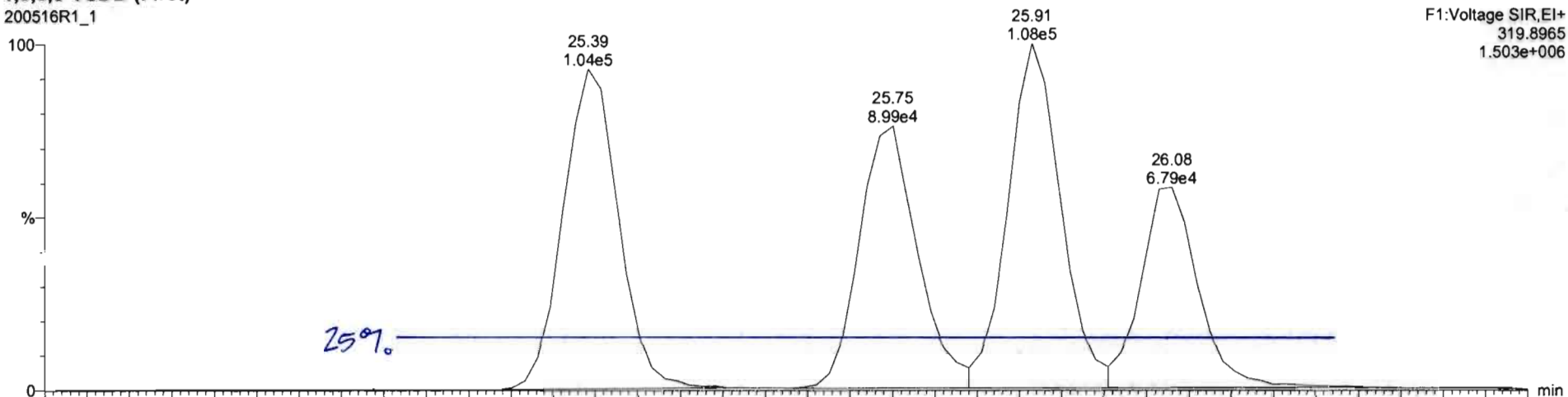
Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

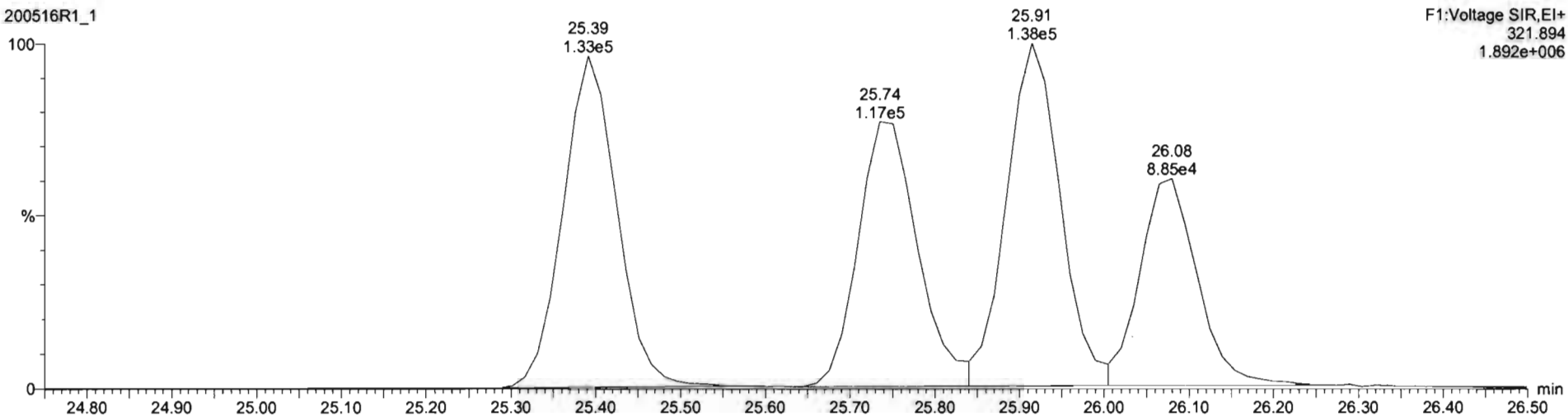
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)

200516R1_1



200516R1_1



Dataset: Untitled

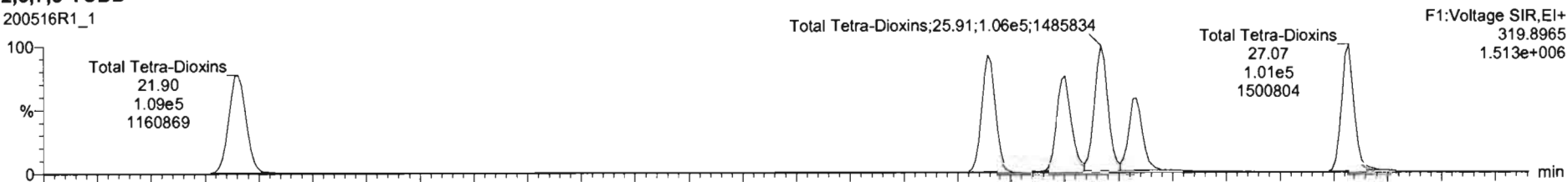
Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

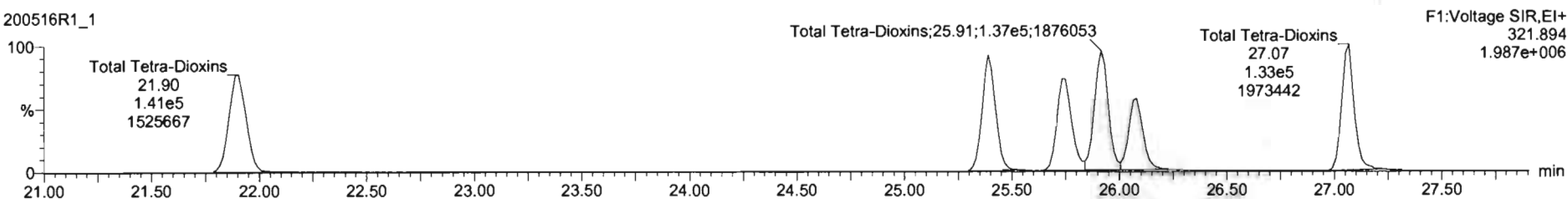
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD

200516R1_1

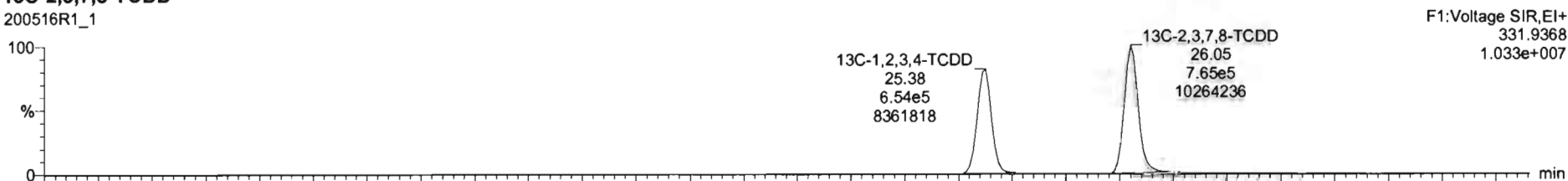


200516R1_1

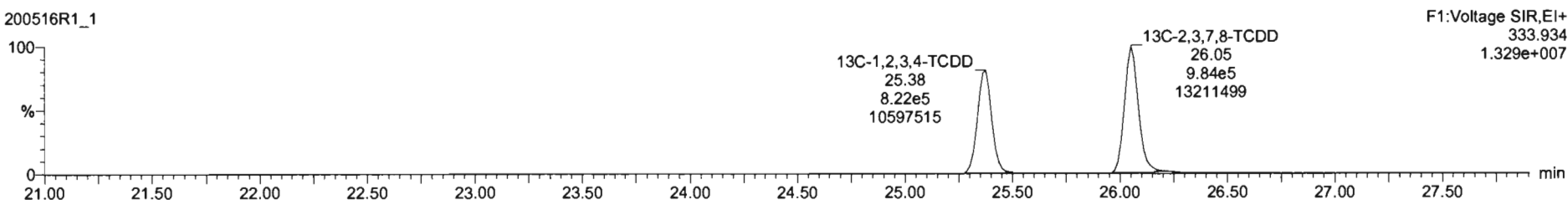


13C-2,3,7,8-TCDD

200516R1_1



200516R1_1



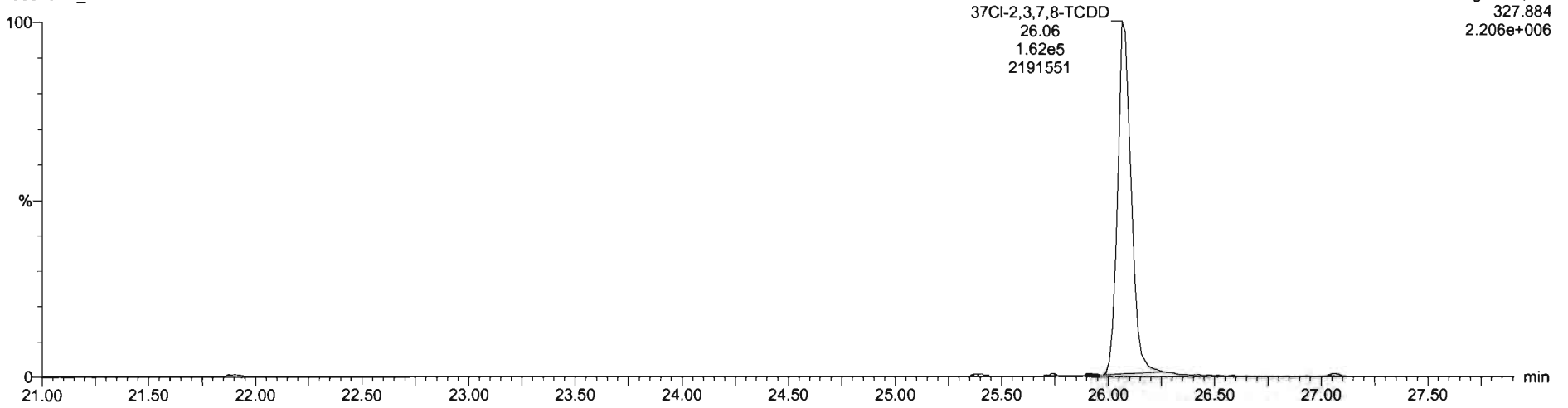
Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

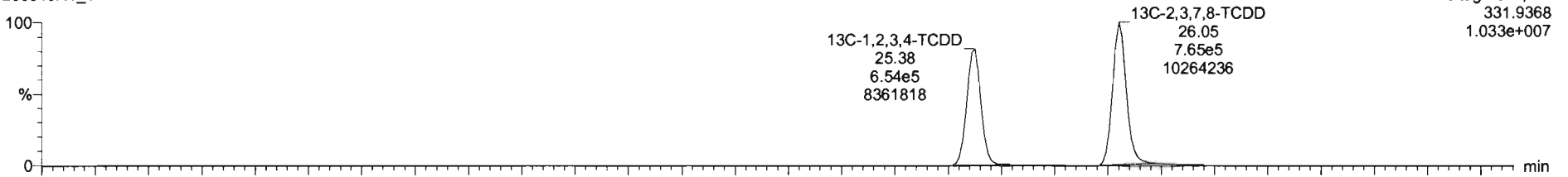
37Cl-2,3,7,8-TCDD

200516R1_1

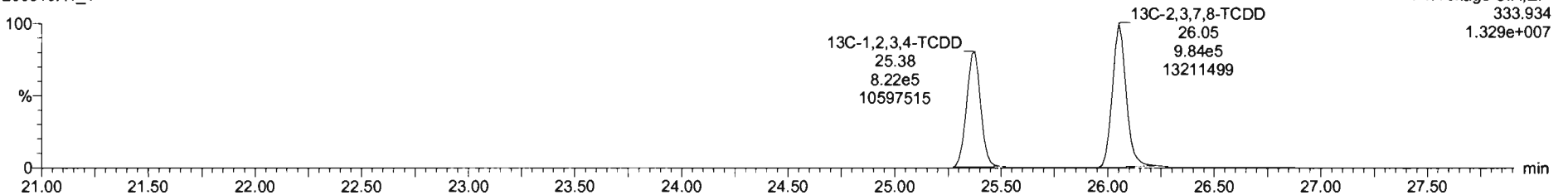


13C-1,2,3,4-TCDD

200516R1_1



200516R1_1



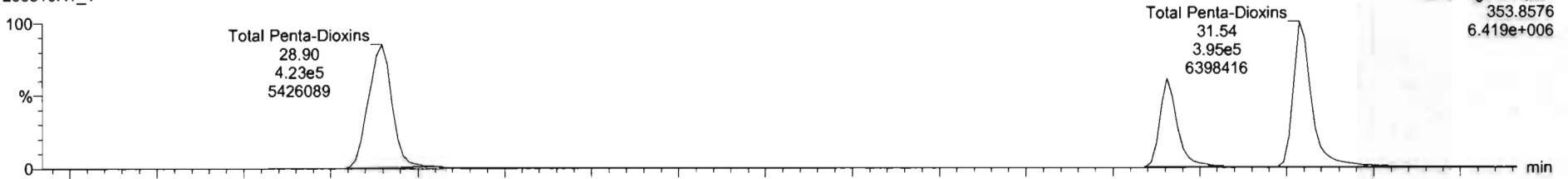
Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

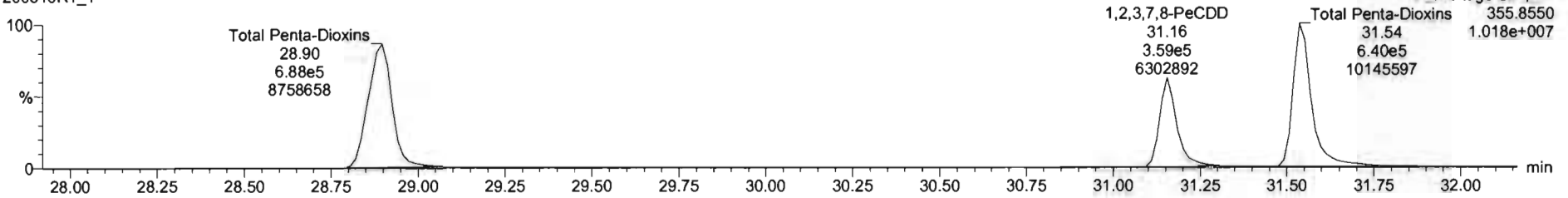
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDD

200516R1_1

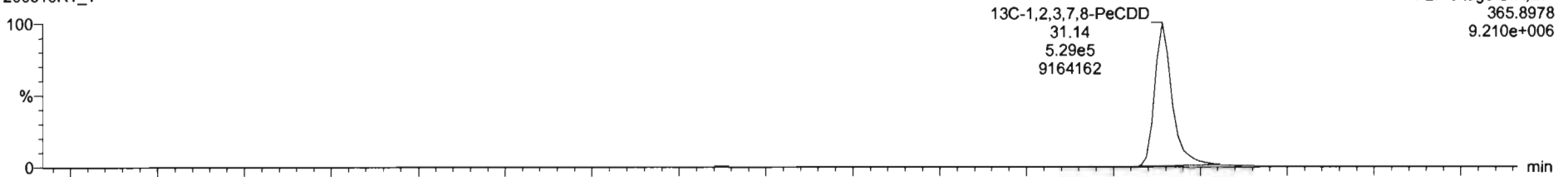


200516R1_1

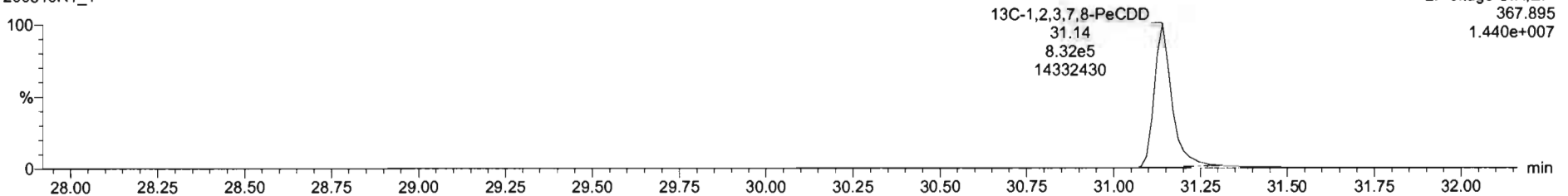


13C-1,2,3,7,8-PeCDD

200516R1_1



200516R1_1



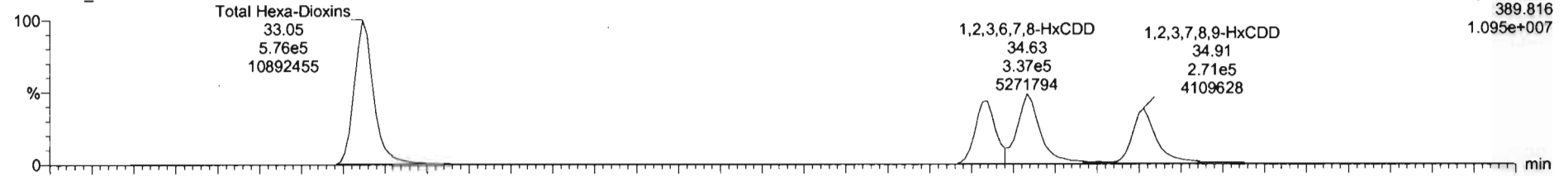
Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

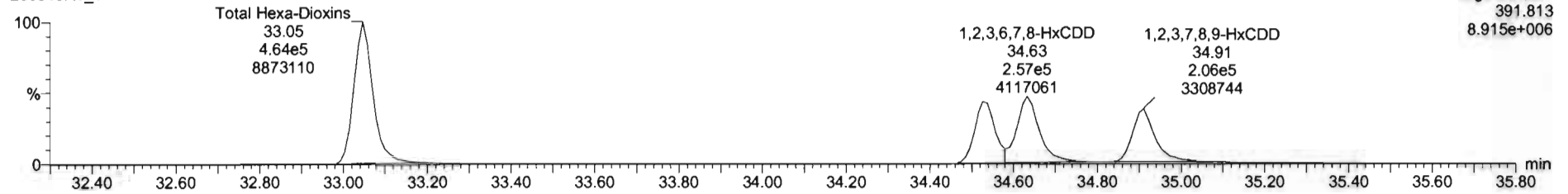
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200516R1_1

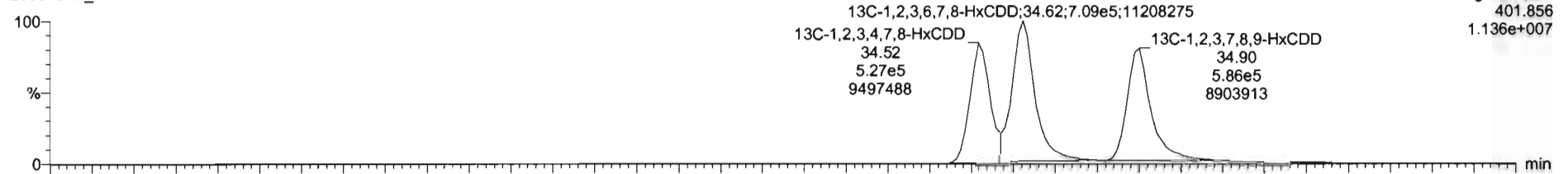


200516R1_1

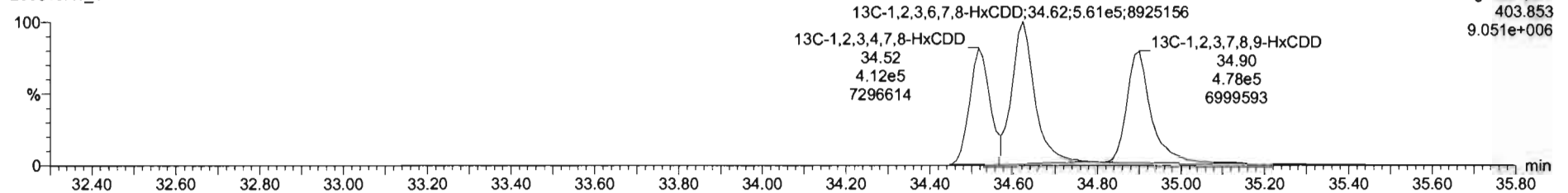


13C-1,2,3,4,7,8-HxCDD

200516R1_1



200516R1_1



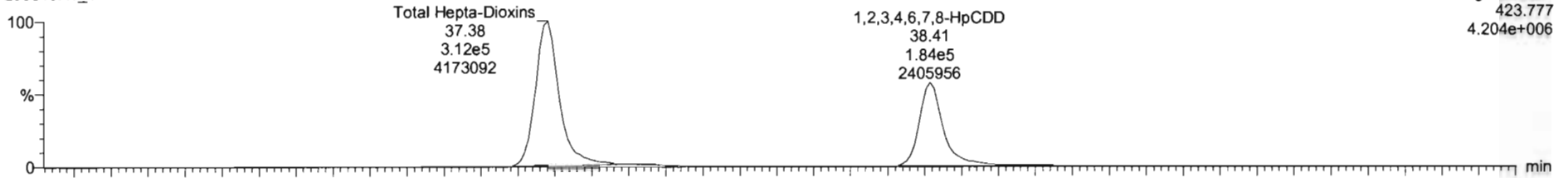
Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

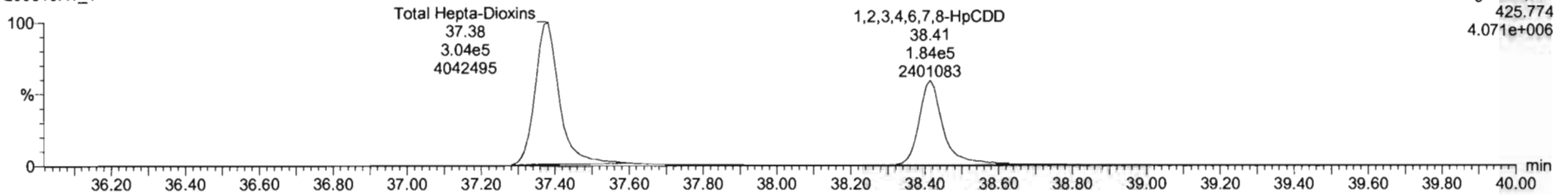
1,2,3,4,6,7,8-HpCDD

200516R1_1



F4: Voltage SIR, EI+
423.777
4.204e+006

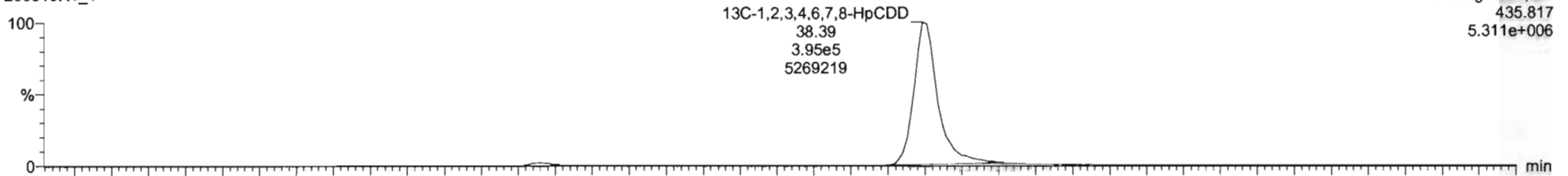
200516R1_1



F4: Voltage SIR, EI+
425.774
4.071e+006

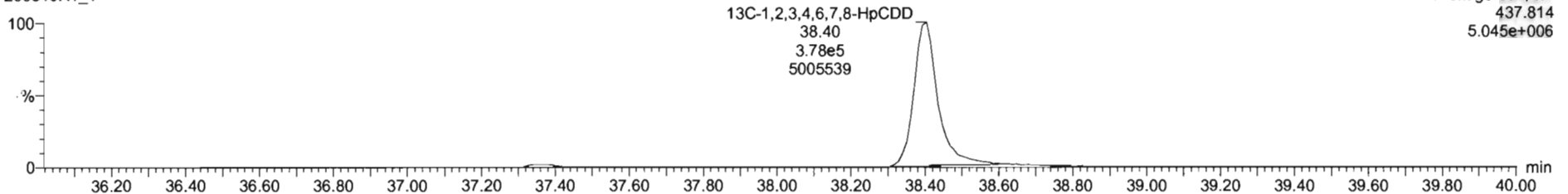
13C-1,2,3,4,6,7,8-HpCDD

200516R1_1

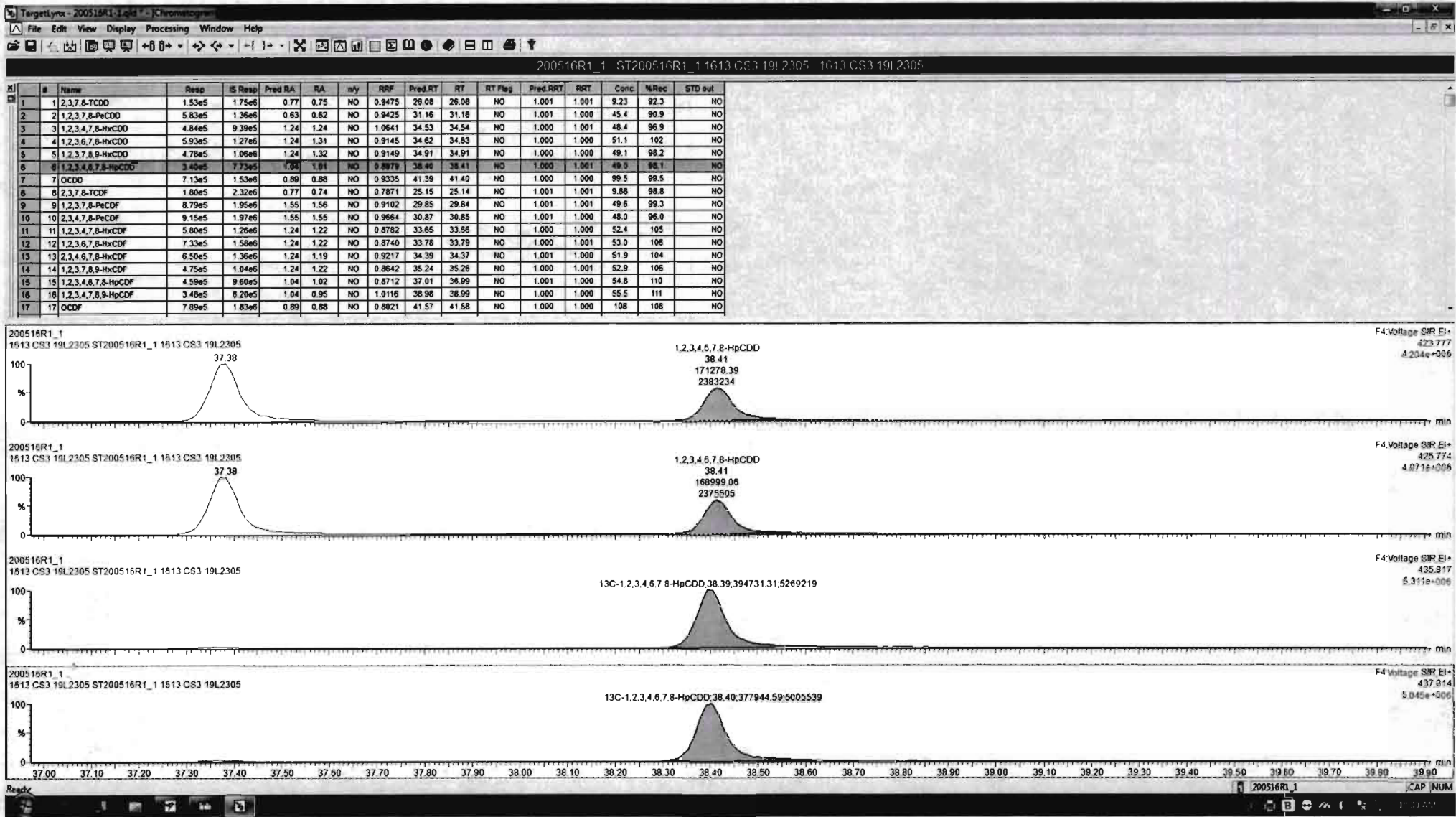


F4: Voltage SIR, EI+
435.817
5.311e+006

200516R1_1



F4: Voltage SIR, EI+
437.814
5.045e+006



Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time

Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

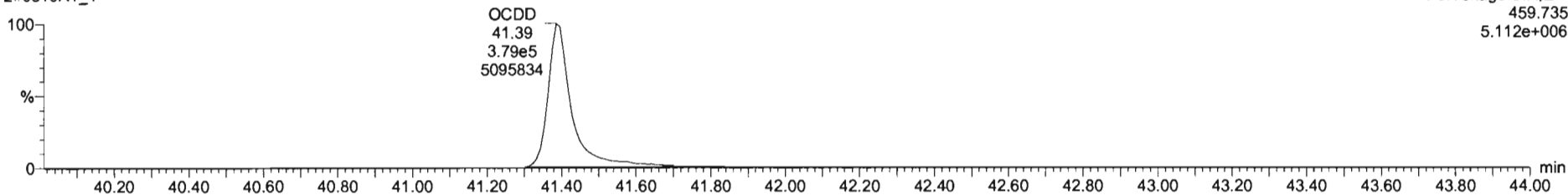
OCDD

200516R1_1



F5:Voltage SIR,EI+
457.738
4.495e+006

2.0516R1_1



F5:Voltage SIR,EI+
459.735
5.112e+006

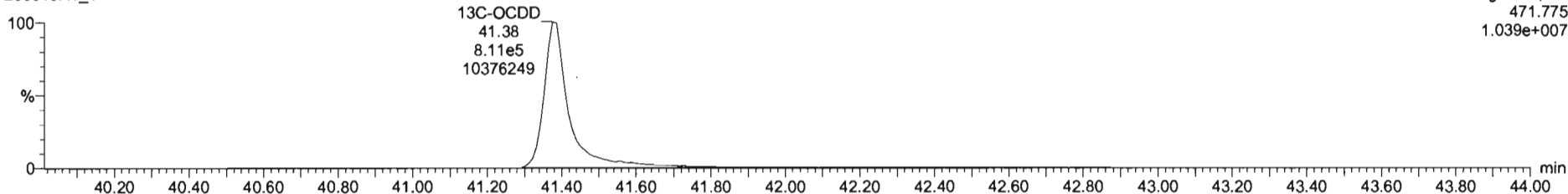
13C-OCDD

200516R1_1

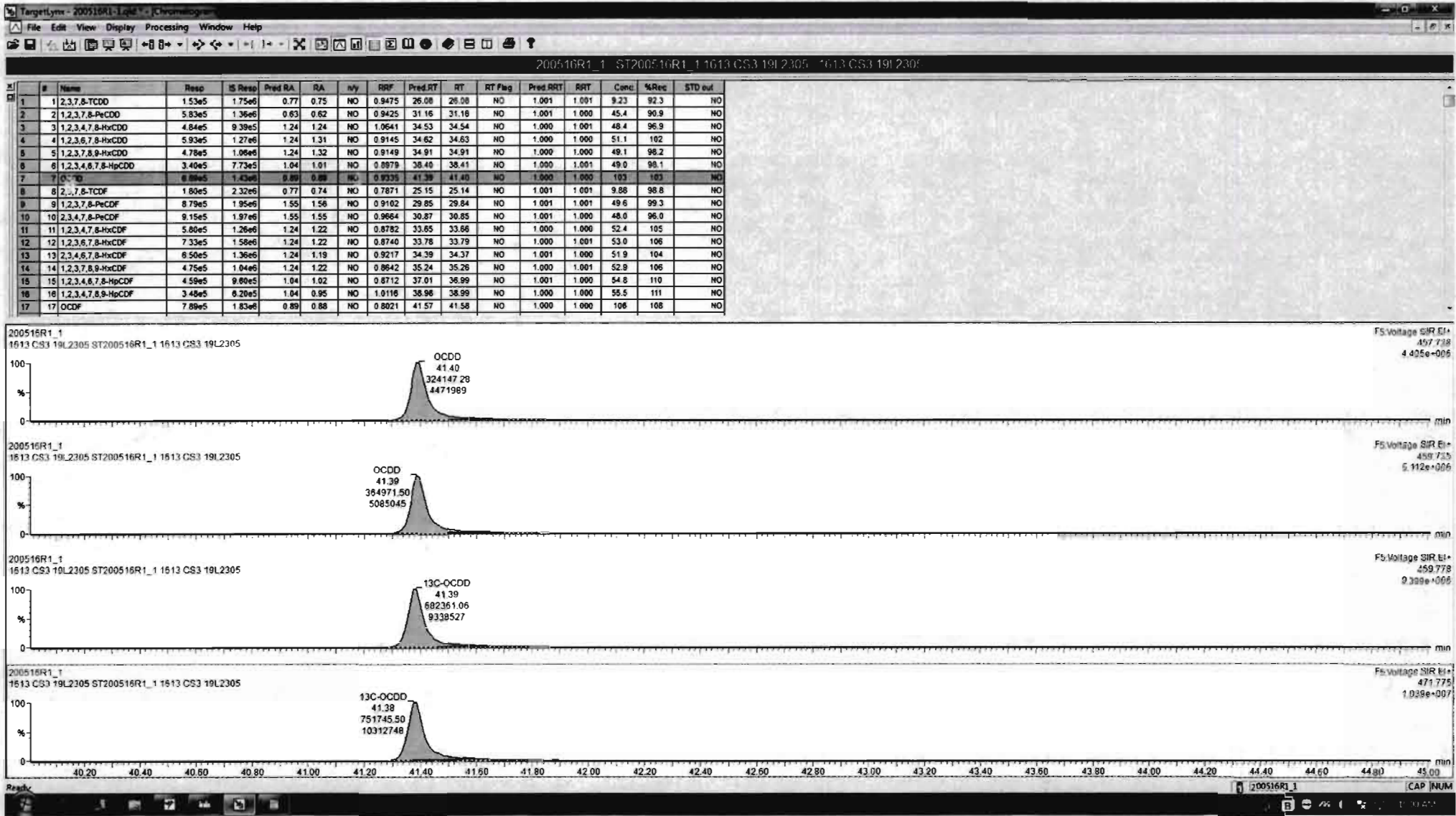


F5:Voltage SIR,EI+
469.778
9.399e+006

200516R1_1



F5:Voltage SIR,EI+
471.775
1.039e+007



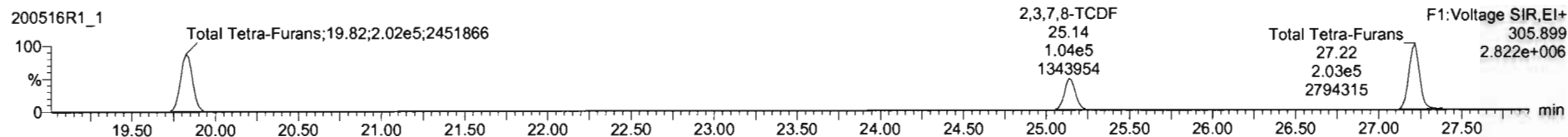
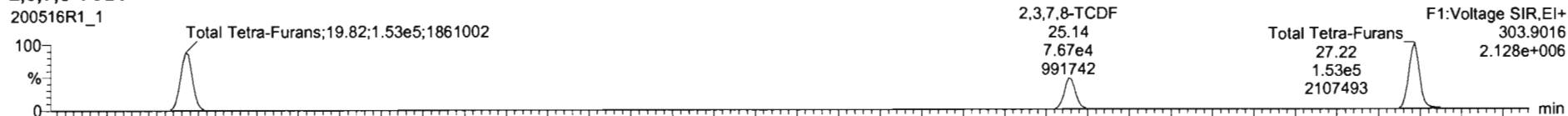
Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time

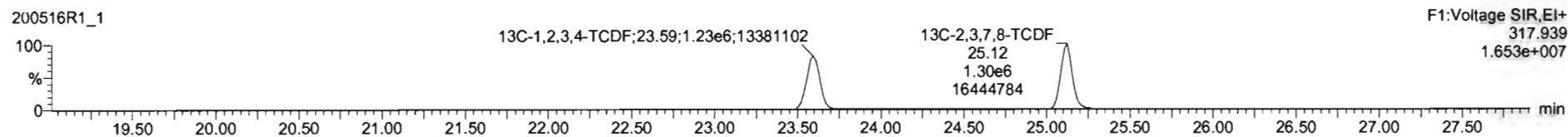
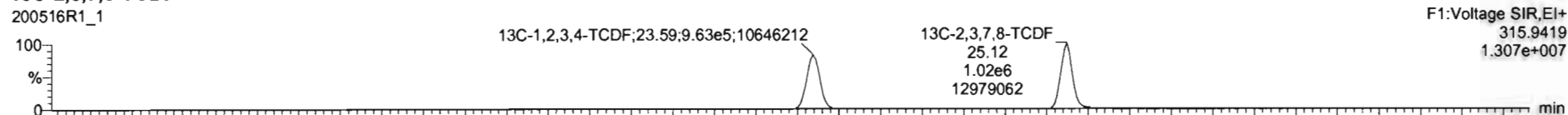
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

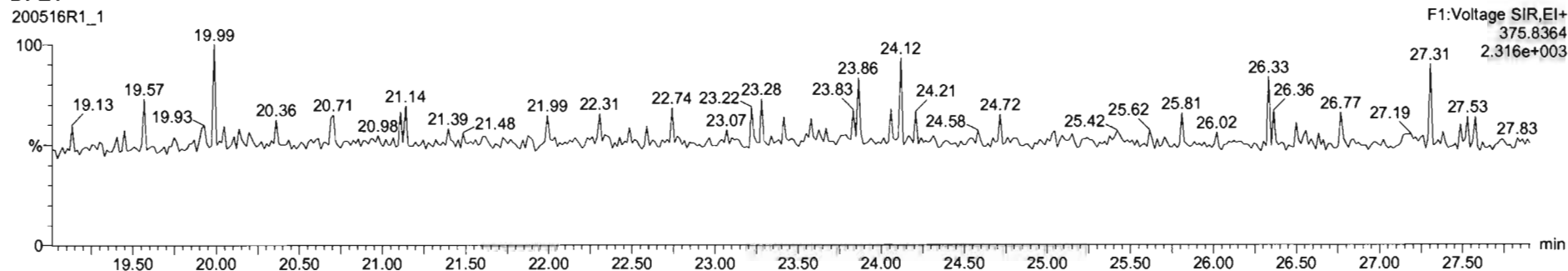
2,3,7,8-TCDF



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



DPE1



Dataset: Untitled

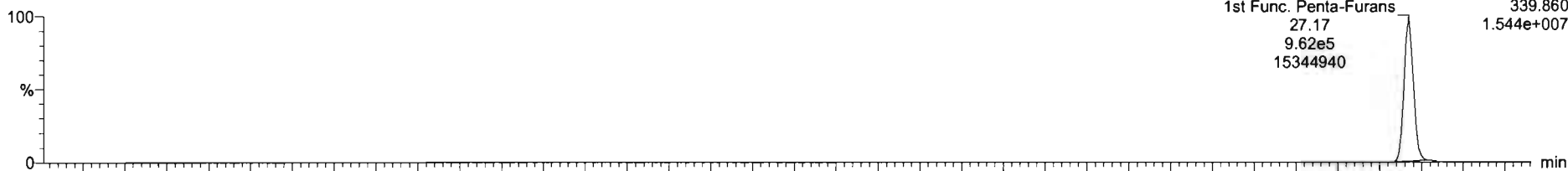
Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time

Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

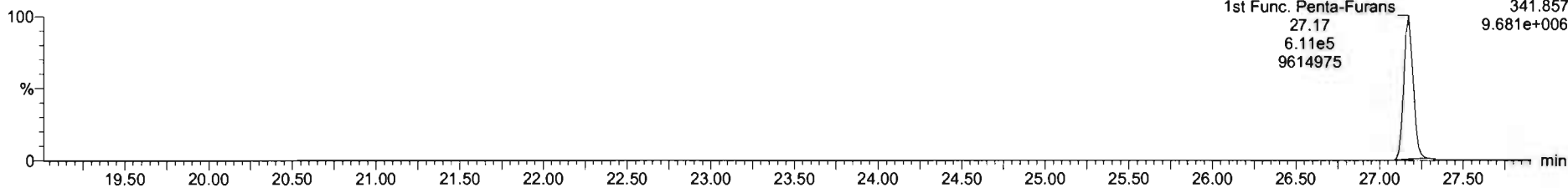
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1st Func. Penta-Furans

200516R1_1

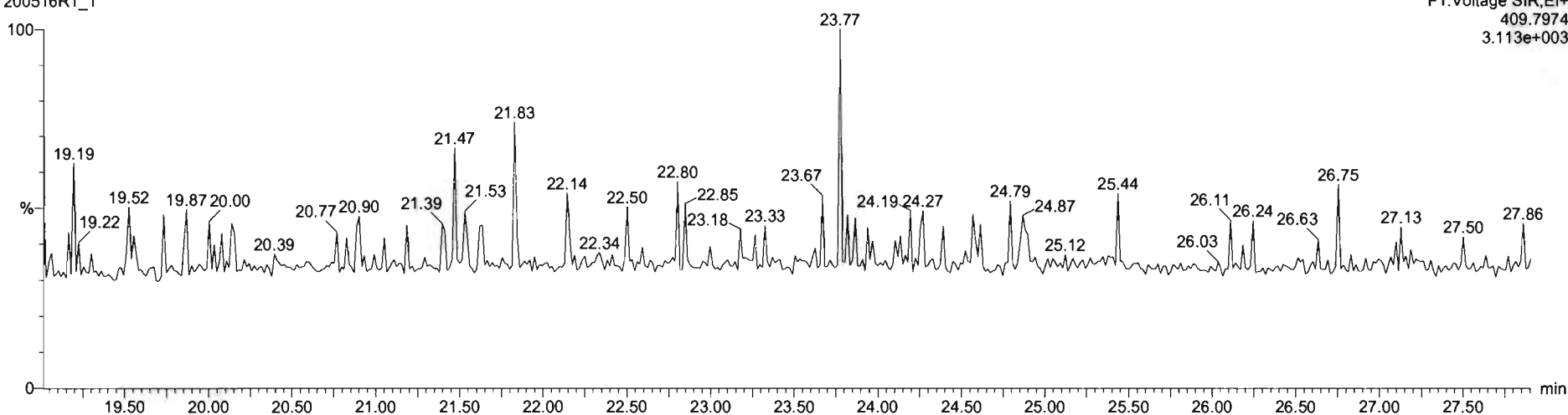


200516R1_1



DPE6

200516R1_1



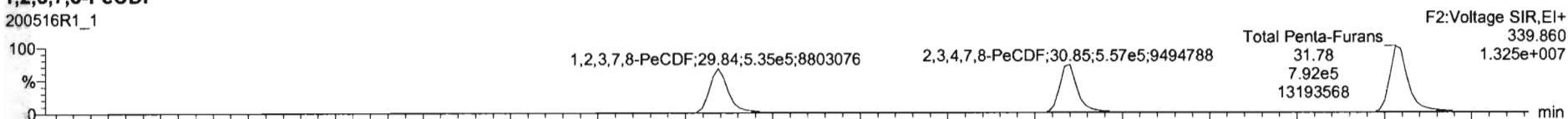
Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

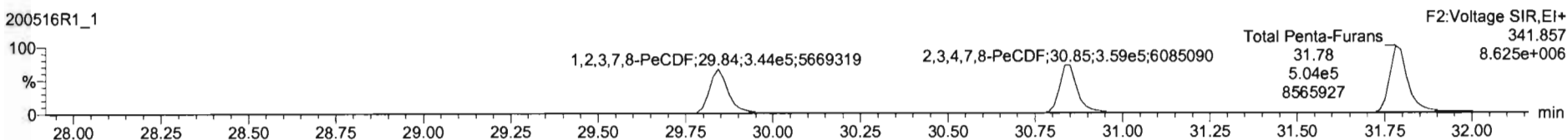
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,2,3,7,8-PeCDF

200516R1_1

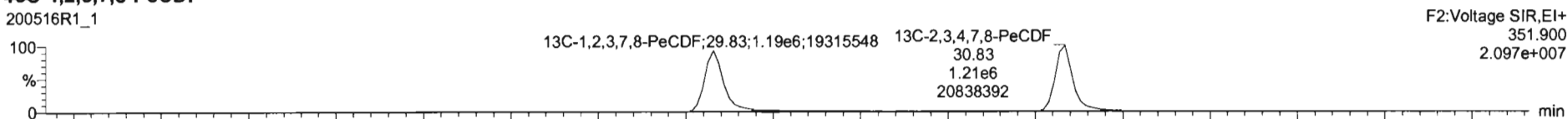


200516R1_1

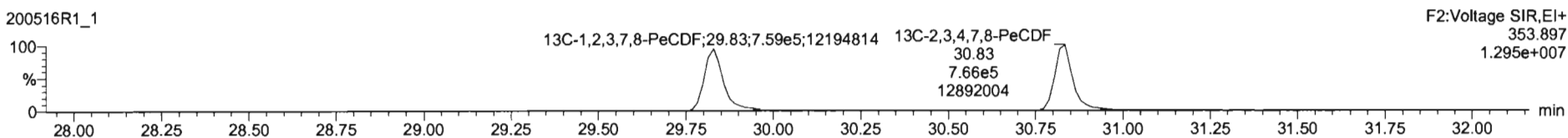


13C-1,2,3,7,8-PeCDF

200516R1_1

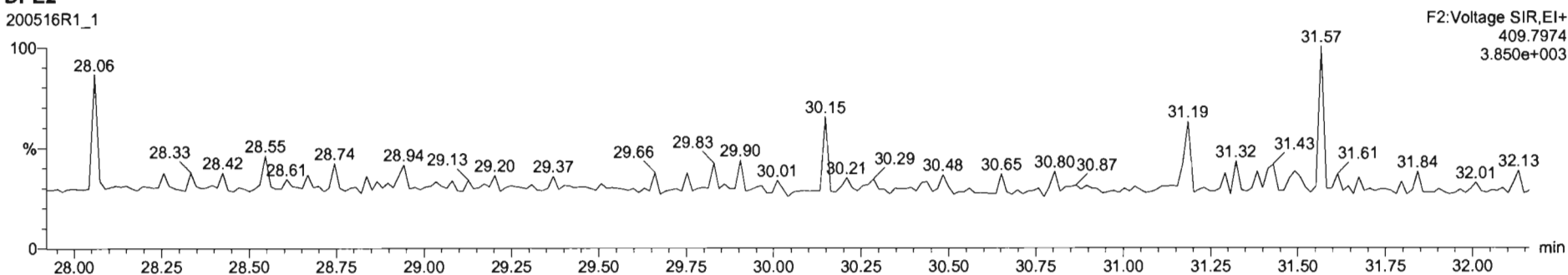


200516R1_1



DPE2

200516R1_1

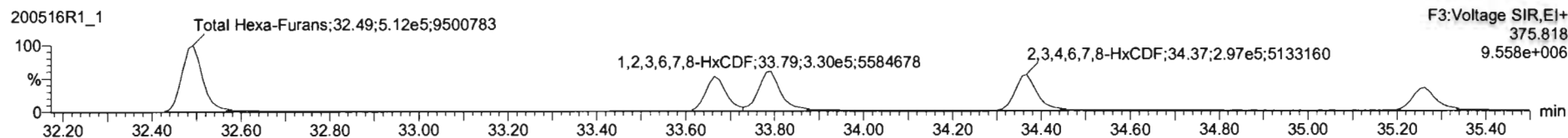
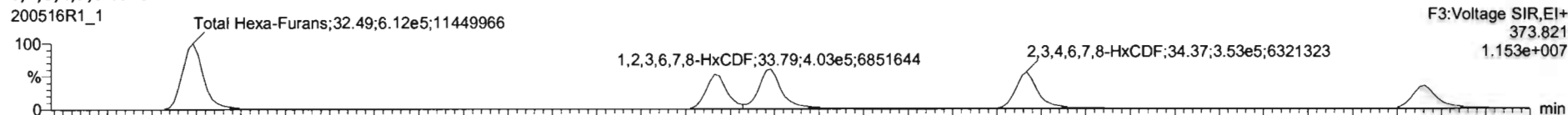


Dataset: Untitled

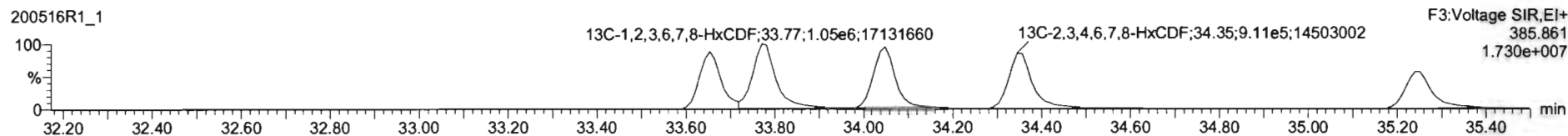
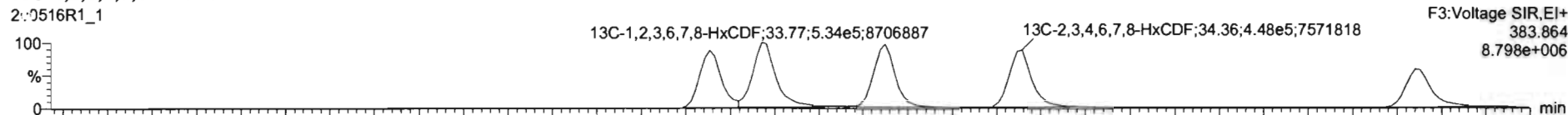
Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

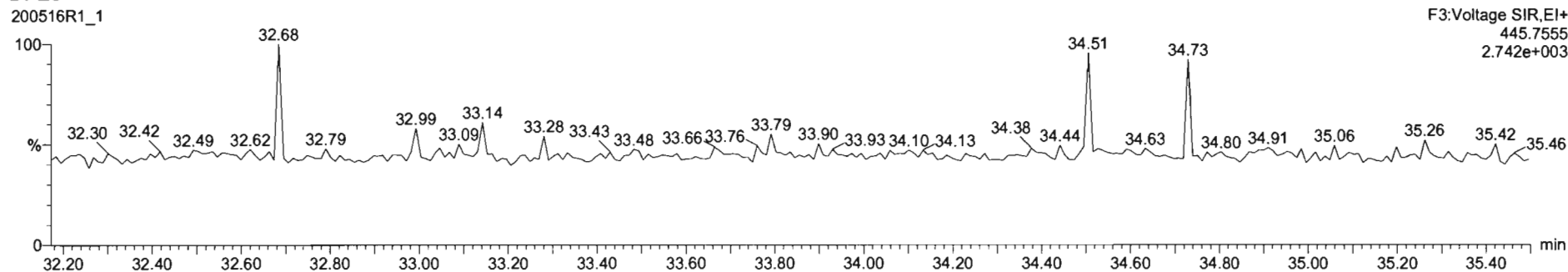
1,2,3,4,7,8-HxCDF

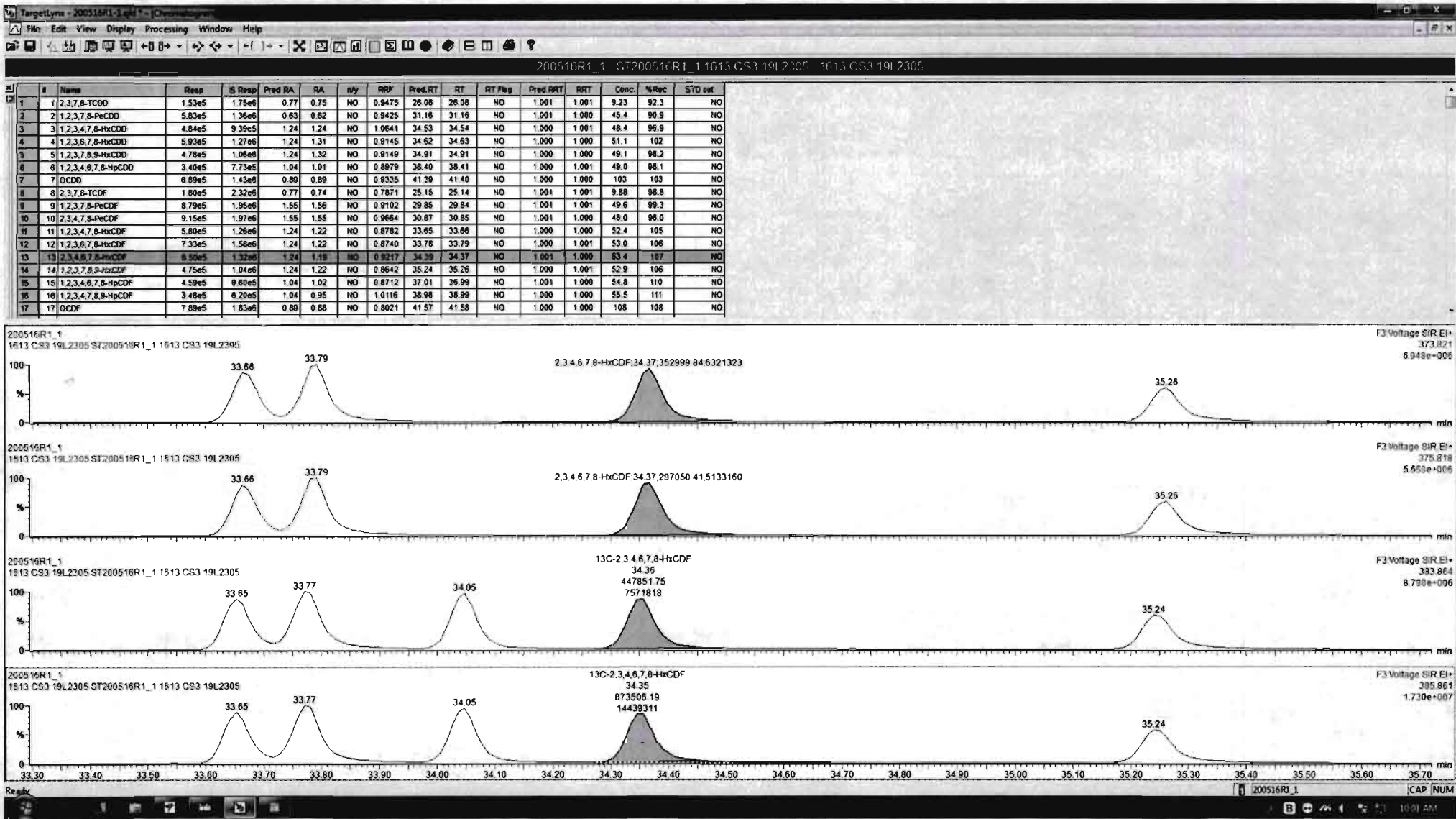


13C-1,2,3,4,7,8-HxCDF



DPE3





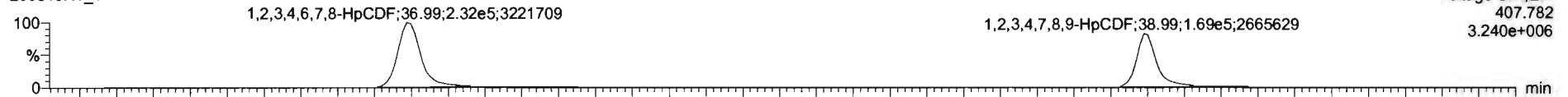
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Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

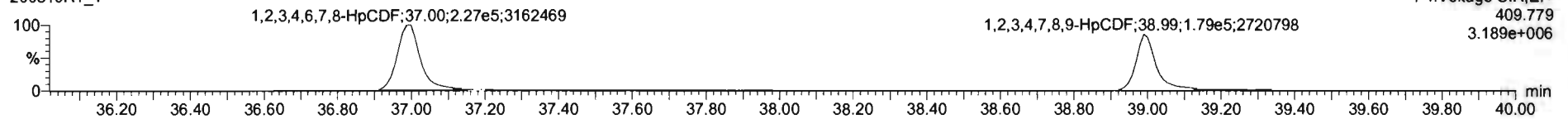
Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200516R1_1

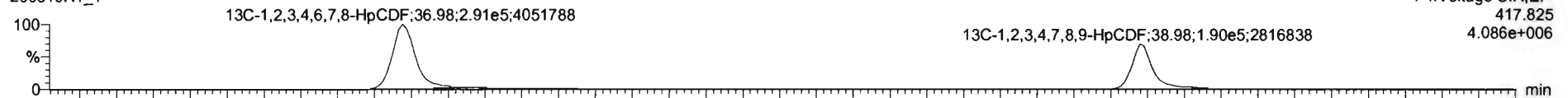


200516R1_1

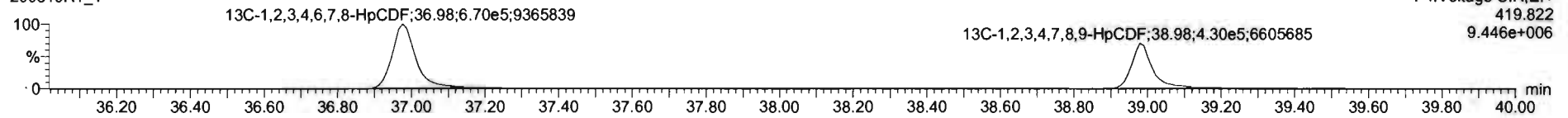


13C-1,2,3,4,6,7,8-HpCDF

200516R1_1

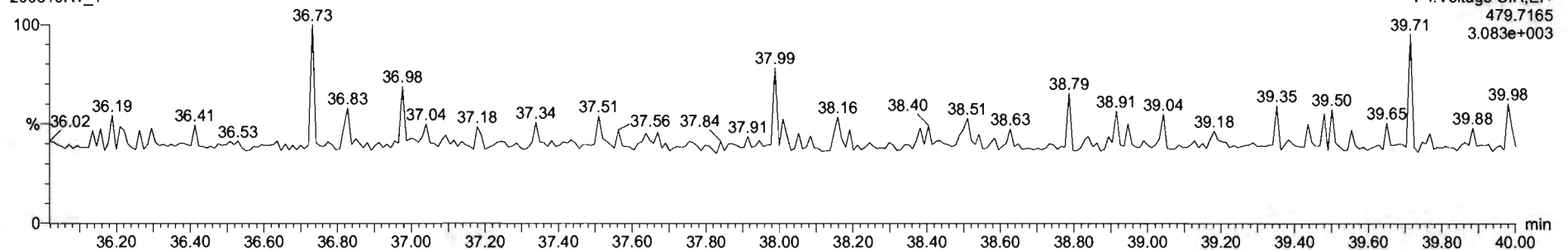


200516R1_1



DPE4

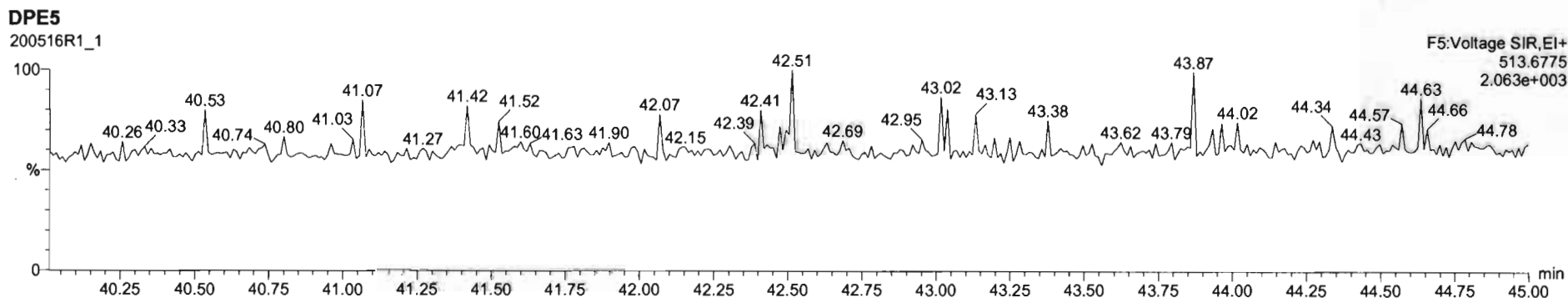
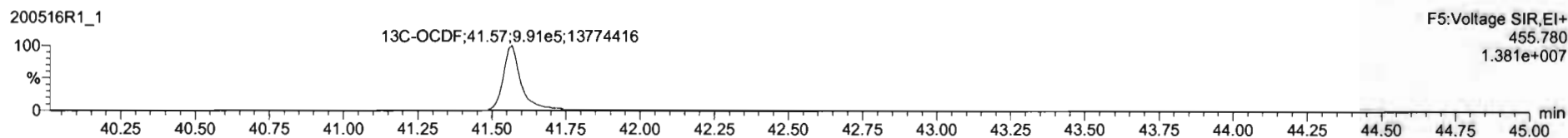
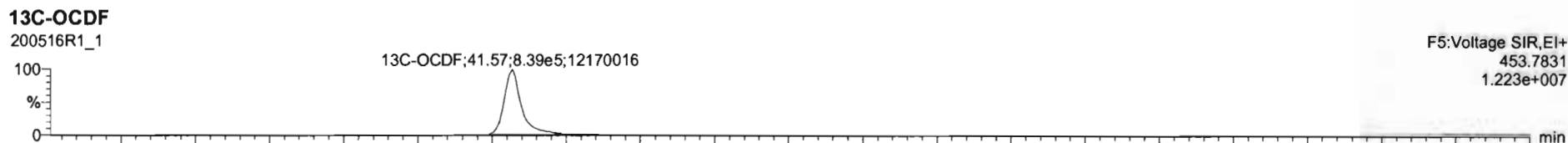
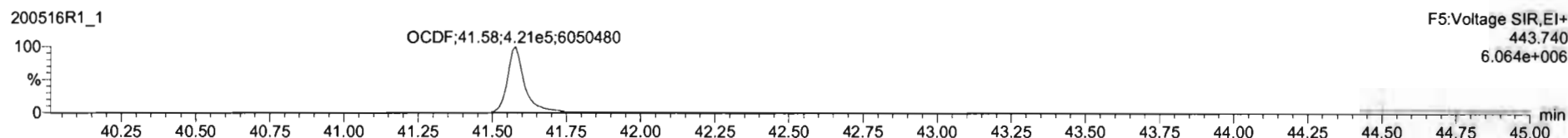
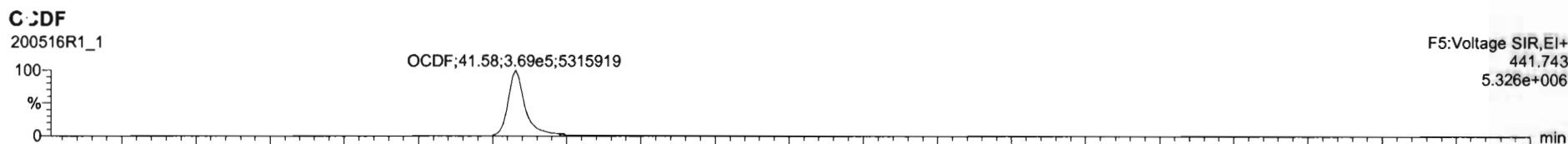
200516R1_1

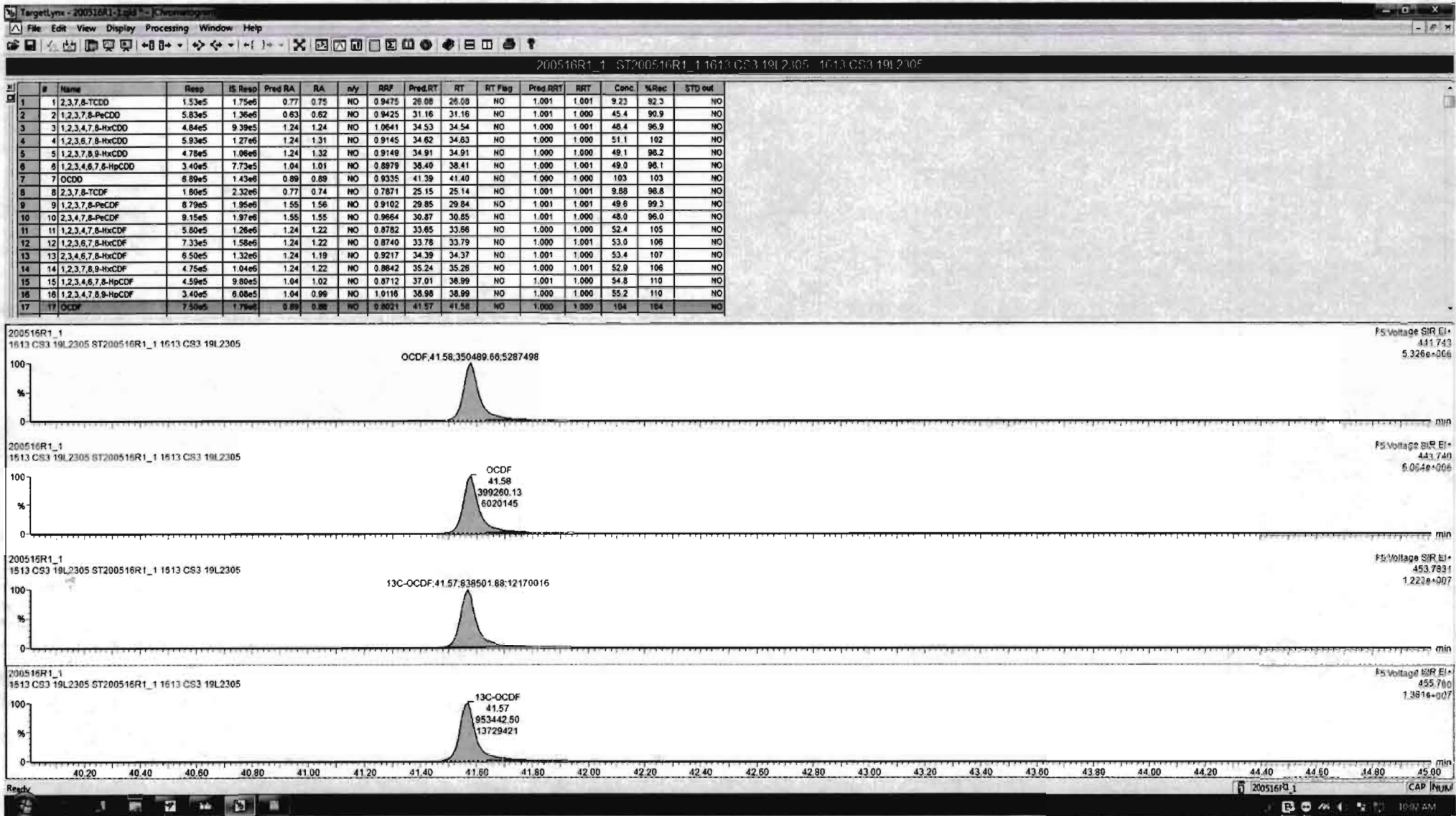


Dataset: Untitled

Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time
Printed: Saturday, May 16, 2020 09:59:30 Pacific Daylight Time

Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305





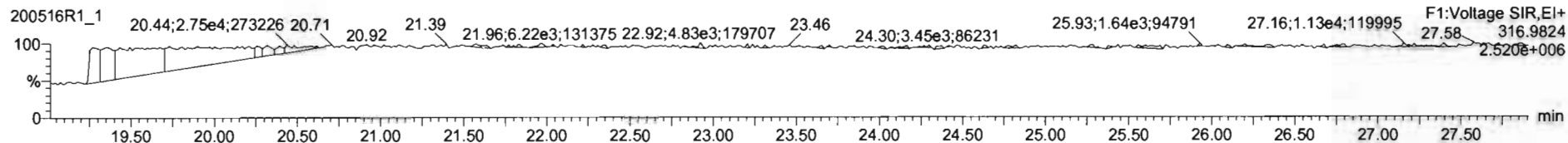
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Last Altered: Saturday, May 16, 2020 09:57:06 Pacific Daylight Time

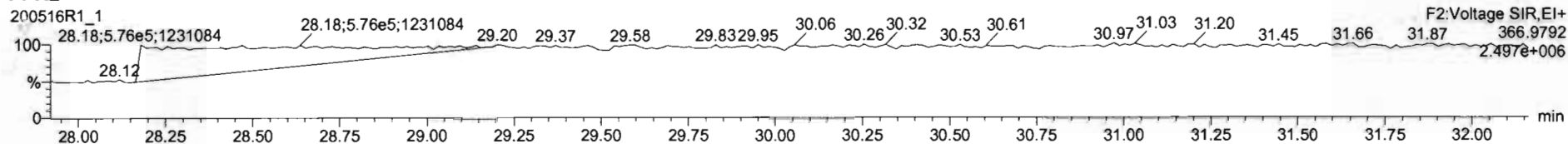
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Name: 200516R1_1, Date: 16-May-2020, Time: 09:10:37, ID: ST200516R1_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

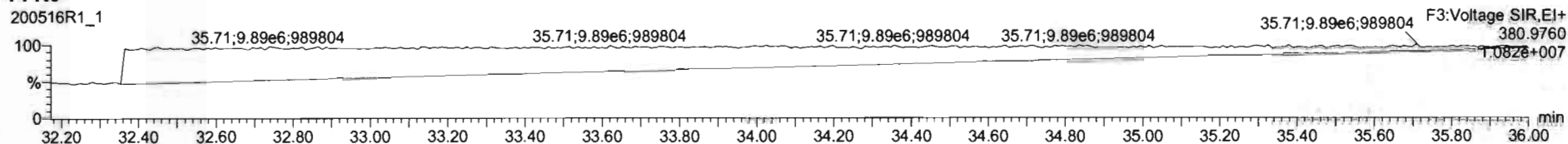
PFK1



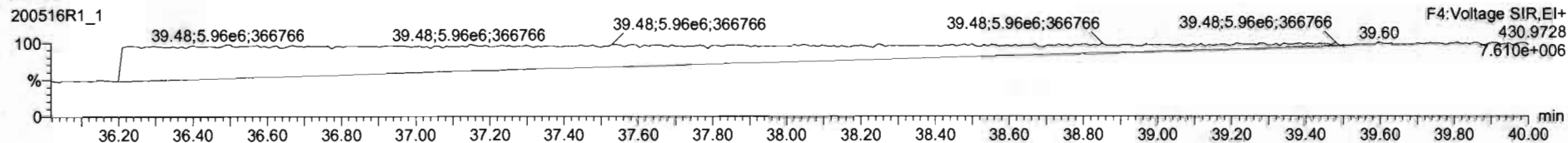
PFK2



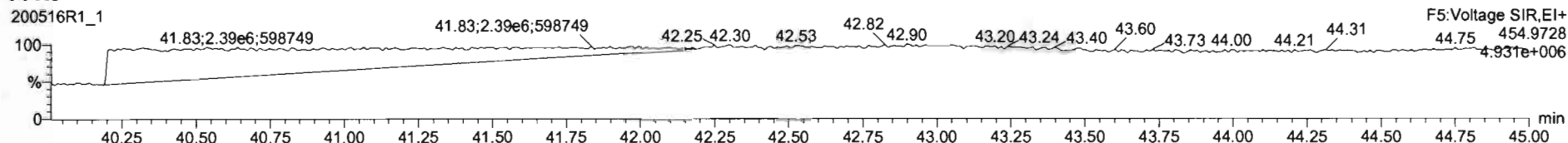
PFK3



PFK4



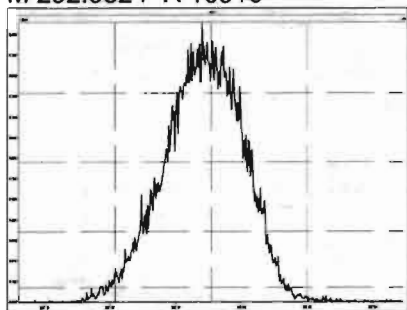
PFK5



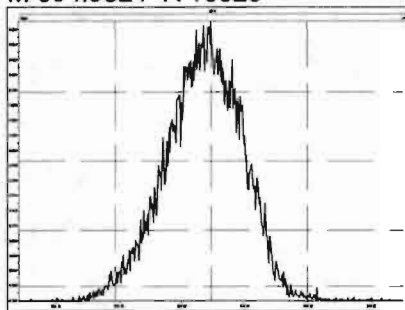
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Monday, May 18, 2020 07:18:32 Pacific Daylight Time

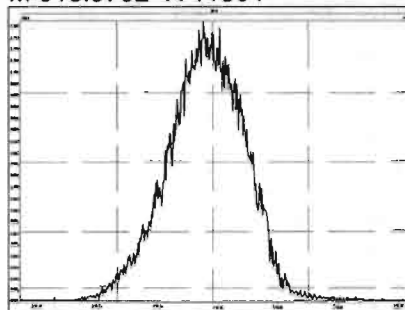
M 292.9824 R 10916



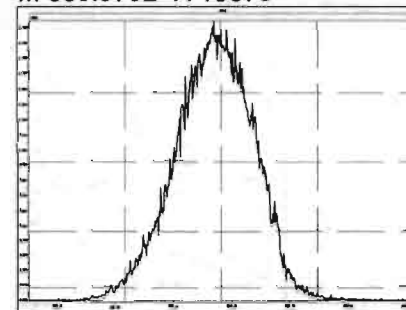
M 304.9824 R 10825



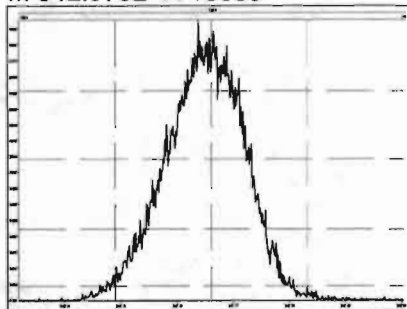
M 318.9792 R 11364



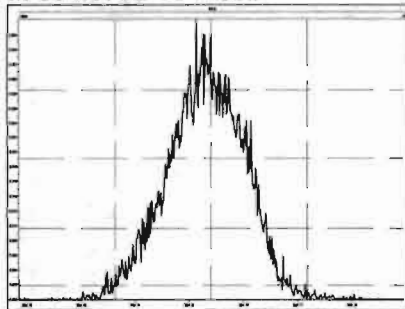
M 330.9792 R 10873



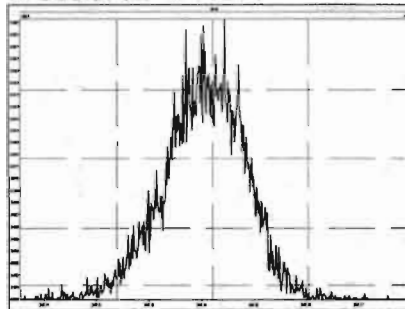
M 342.9792 R 10639



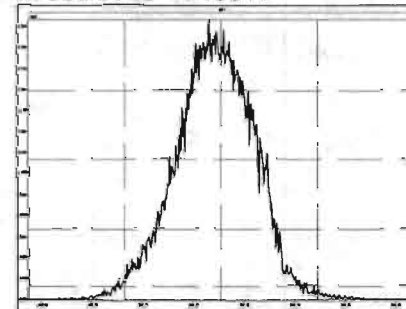
M 354.9792 R 11363



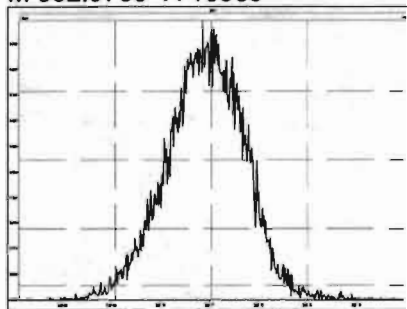
M 366.9792 R 11314



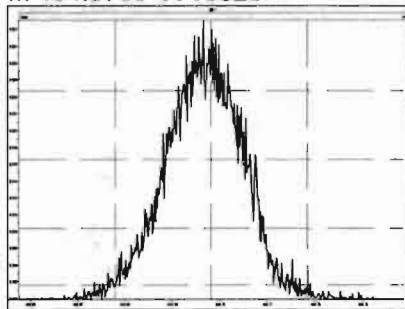
M 380.9760 R 10917



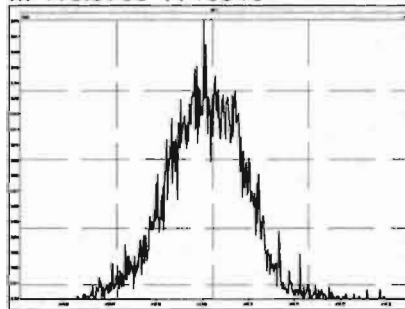
M 392.9760 R 10868



M 404.9760 R 10823



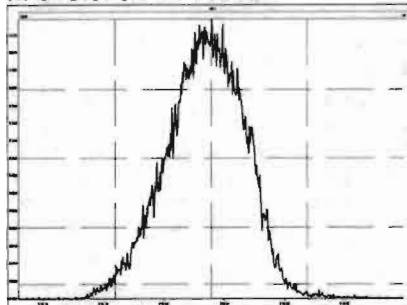
M 416.9760 R 10916



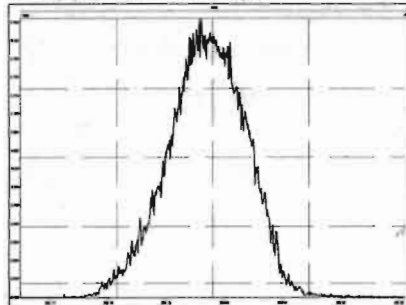
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Monday, May 18, 2020 07:18:57 Pacific Daylight Time

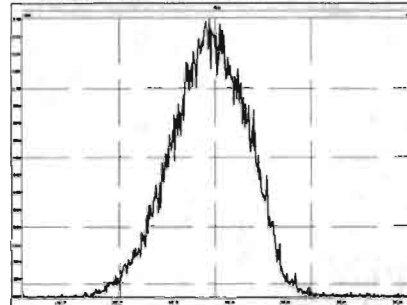
M 318.9792 R 11009



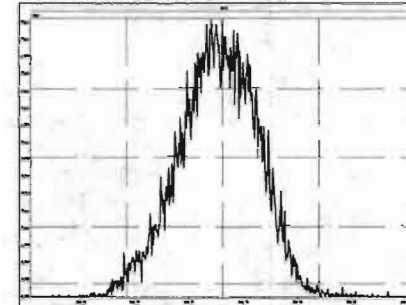
M 330.9792 R 10964



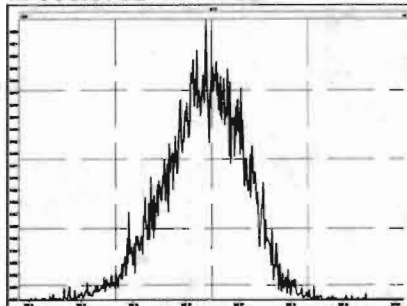
M 342.9792 R 10914



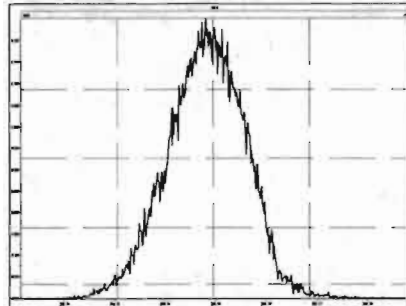
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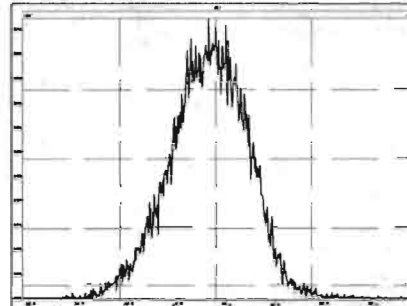
M 366.9792 R 11109



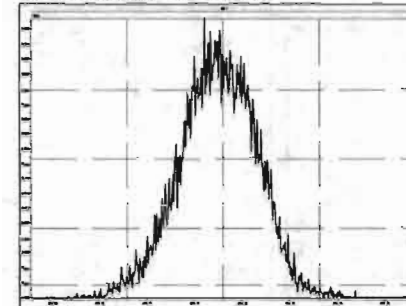
M 380.9760 R 10966



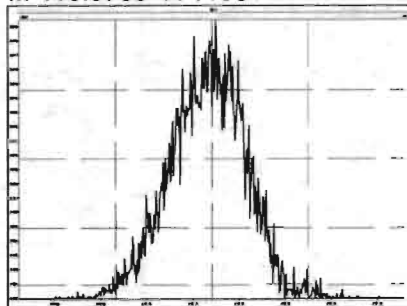
M 392.9760 R 11210



M 404.9760 R 11684



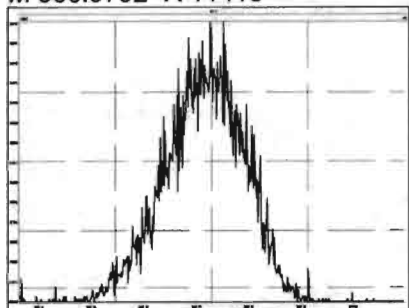
M 416.9760 R 11961



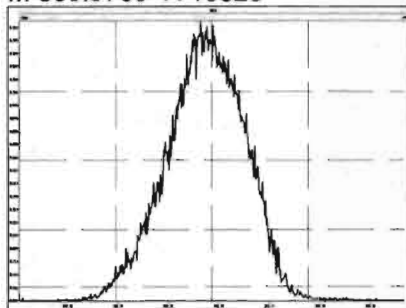
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Printed: Monday, May 18, 2020 07:19:14 Pacific Daylight Time

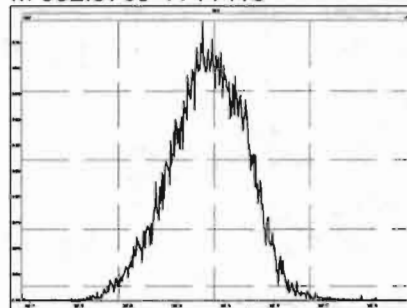
M 366.9792 R 11413



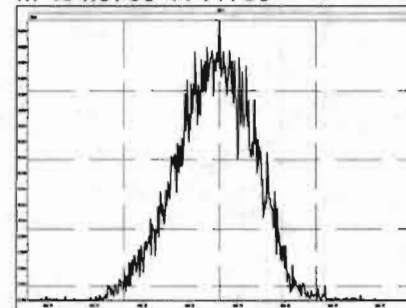
M 380.9760 R 10823



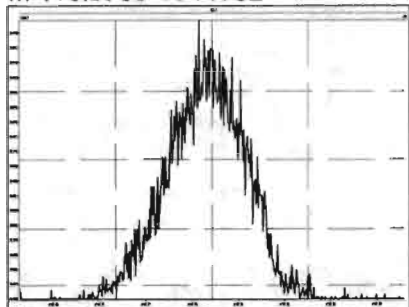
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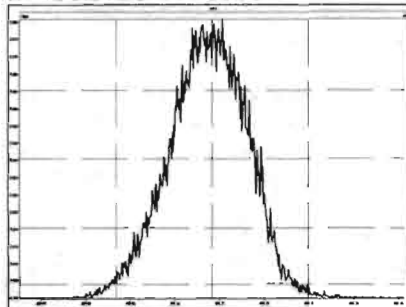
M 404.9760 R 11739



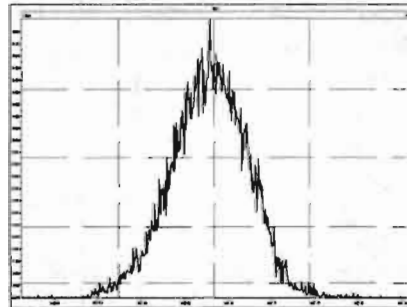
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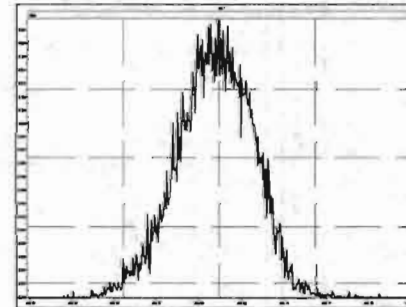
M 430.9728 R 10506



M 442.9728 R 11157



M 454.9728 R 11315



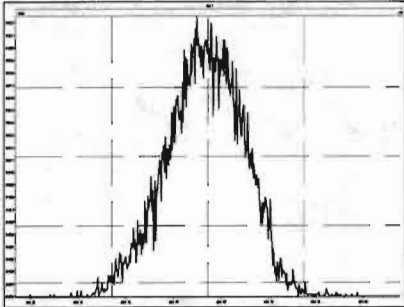
Experiment Calibration Report

MassLynx 4.1 SCN815

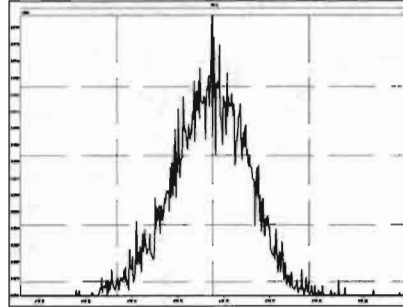
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Printed: Monday, May 18, 2020 07:20:39 Pacific Daylight Time

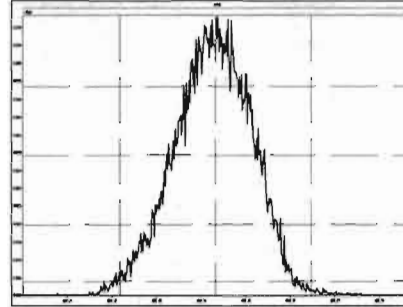
M 404.9760 R 10821



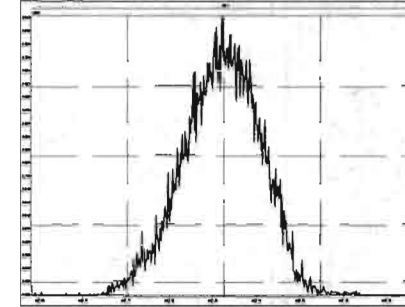
M 416.9760 R 12196



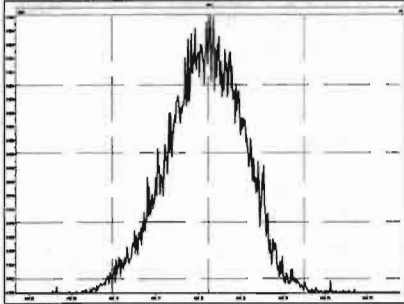
M 430.9728 R 11110



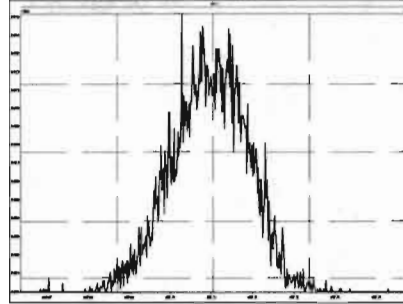
M 442.9728 R 11314



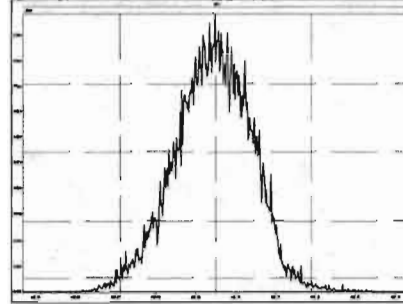
M 454.9728 R 11468



M 466.9728 R 12253



M 480.9696 R 11416



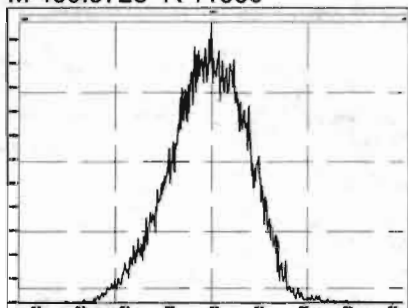
Experiment Calibration Report

MassLynx 4.1 SCN815

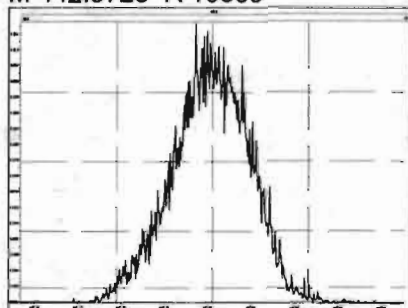
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Printed: Monday, May 18, 2020 07:21:58 Pacific Daylight Time

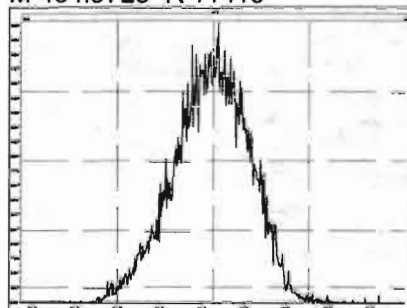
M 430.9728 R 11360



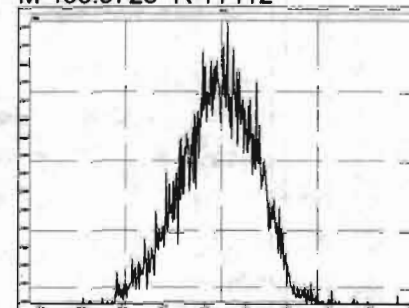
M 442.9728 R 10869



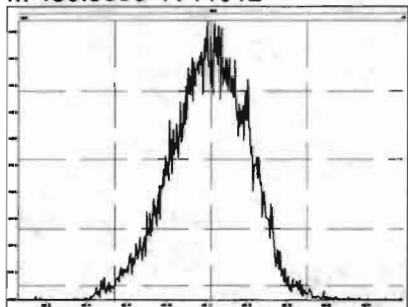
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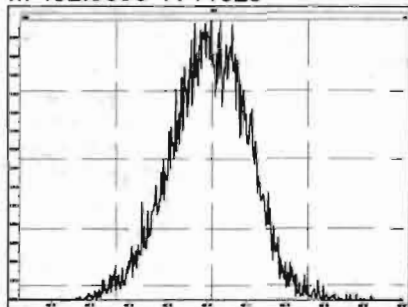
M 466.9728 R 11412



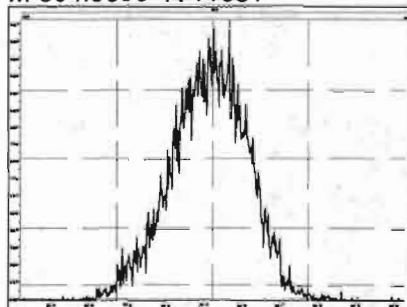
M 480.9696 R 11012



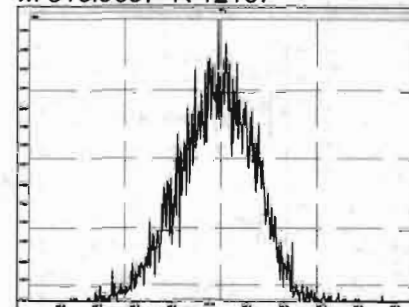
M 492.9696 R 11629



M 504.9696 R 11681



M 516.9697 R 12137



Dataset: U:\VG12.PRO\Results\200518R2\200518R2-2.qld

Last Altered: Monday, May 18, 2020 15:37:05 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:37:20 Pacific Daylight Time

GPB 05/18/2020

CTW/19/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
1	1 2,3,7,8-TCDD	1.54e5	1.73e6	0.76	NO	0.947	26.07	26.05	NO	1.001	1.001	9.4118	94.1	NO
2	2 1,2,3,7,8-PeCDD	5.75e5	1.33e6	0.62	NO	0.942	31.13	31.14	NO	1.001	1.001	45.791	91.6	NO
3	3 1,2,3,4,7,8-HxCDD	4.82e5	9.02e5	1.23	NO	1.06	34.51	34.51	NO	1.000	1.000	50.254	101	NO
4	4 1,2,3,6,7,8-HxCDD	5.23e5	1.23e6	1.22	NO	0.915	34.60	34.61	NO	1.000	1.000	46.665	93.3	NO
5	5 1,2,3,7,8,9-HxCDD	4.62e5	1.05e6	1.24	NO	0.915	34.88	34.89	NO	1.000	1.001	48.148	96.3	NO
6	6 1,2,3,4,6,7,8-HpCDD	3.55e5	8.20e5	1.04	NO	0.898	38.38	38.39	NO	1.000	1.001	48.222	96.4	NO
7	7 OCDD	6.77e5	1.48e6	0.88	NO	0.933	41.35	41.36	NO	1.000	1.000	98.196	98.2	NO
8	8 2,3,7,8-TCDF	1.74e5	2.26e6	0.74	NO	0.787	25.12	25.12	NO	1.001	1.001	9.7799	97.8	NO
9	9 1,2,3,7,8-PeCDF	8.38e5	1.89e6	1.55	NO	0.910	29.82	29.81	NO	1.001	1.001	48.623	97.2	NO
10	10 2,3,4,7,8-PeCDF	8.55e5	1.84e6	1.54	NO	0.966	30.84	30.82	NO	1.001	1.000	48.051	96.1	NO
11	11 1,2,3,4,7,8-HxCDF	5.76e5	1.22e6	1.21	NO	0.878	33.63	33.64	NO	1.000	1.000	53.959	108	NO
12	12 1,2,3,6,7,8-HxCDF	6.58e5	1.44e6	1.21	NO	0.874	33.76	33.76	NO	1.000	1.000	52.309	105	NO
13	13 2,3,4,6,7,8-HxCDF	6.16e5	1.27e6	1.22	NO	0.922	34.36	34.33	NO	1.001	1.000	52.850	106	NO
14	14 1,2,3,7,8,9-HxCDF	4.66e5	1.03e6	1.24	NO	0.864	35.22	35.23	NO	1.000	1.000	52.428	105	NO
15	15 1,2,3,4,6,7,8-HpCDF	4.49e5	9.70e5	1.01	NO	0.871	36.98	36.97	NO	1.001	1.001	53.131	106	NO
16	16 1,2,3,4,7,8,9-HpCDF	3.47e5	6.34e5	0.98	NO	1.01	38.96	38.97	NO	1.000	1.000	54.091	108	NO
17	17 OCDF	7.32e5	1.75e6	0.87	NO	0.802	41.53	41.56	NO	1.000	1.001	104.54	105	NO
18	18 13C-2,3,7,8-TCDD	1.73e6	1.47e6	0.78	NO	1.16	26.02	26.03	NO	1.026	1.027	101.21	101	NO
19	19 13C-1,2,3,7,8-PeCDD	1.33e6	1.47e6	0.63	NO	0.847	31.10	31.11	NO	1.227	1.227	107.06	107	NO
20	20 13C-1,2,3,4,7,8-HxCDD	9.02e5	1.27e6	1.28	NO	0.750	34.50	34.49	NO	1.014	1.014	94.701	94.7	NO
21	21 13C-1,2,3,6,7,8-HxCDD	1.23e6	1.27e6	1.27	NO	0.963	34.61	34.60	NO	1.017	1.017	100.27	100	NO
22	22 13C-1,2,3,7,8,9-HxCDD	1.05e6	1.27e6	1.26	NO	0.838	34.88	34.87	NO	1.025	1.025	98.603	98.6	NO
23	23 13C-1,2,3,4,6,7,8-HpCDD	8.20e5	1.27e6	1.04	NO	0.641	38.37	38.37	NO	1.128	1.128	100.74	101	NO
24	24 13C-OCDD	1.48e6	1.27e6	0.90	NO	0.586	41.36	41.35	NO	1.216	1.216	198.45	99.2	NO
25	25 13C-2,3,7,8-TCDF	2.26e6	2.12e6	0.78	NO	1.03	25.07	25.09	NO	0.989	0.990	103.25	103	NO
26	26 13C-1,2,3,7,8-PeCDF	1.89e6	2.12e6	1.57	NO	0.845	29.79	29.80	NO	1.176	1.176	105.88	106	NO
27	27 13C-2,3,4,7,8-PeCDF	1.84e6	2.12e6	1.59	NO	0.814	30.79	30.81	NO	1.215	1.215	106.88	107	NO
28	28 13C-1,2,3,4,7,8-HxCDF	1.22e6	1.27e6	0.51	NO	1.00	33.64	33.63	NO	0.989	0.989	95.255	95.3	NO
29	29 13C-1,2,3,6,7,8-HxCDF	1.44e6	1.27e6	0.51	NO	1.14	33.76	33.75	NO	0.992	0.992	99.709	99.7	NO
30	30 13C-2,3,4,6,7,8-HxCDF	1.27e6	1.27e6	0.51	NO	1.02	34.33	34.33	NO	1.009	1.009	97.476	97.5	NO
31	31 13C-1,2,3,7,8,9-HxCDF	1.03e6	1.27e6	0.51	NO	0.845	35.22	35.22	NO	1.035	1.035	95.978	96.0	NO

Dataset: U:\VG12.PRO\Results\200518R2\200518R2-2.qld

Last Altered: Monday, May 18, 2020 15:37:05 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:37:20 Pacific Daylight Time

Sample ID: ST Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	IS Resp	RA	n/y	RRF	Pred.RT	RT	RT Flag	Pred.RRT	RRT	Conc.	%Rec	STD out
32	32 13C-1,2,3,4,6,7,8-HpCDF	9.70e5	1.27e6	0.44	NO	0.771	36.95	36.94	NO	1.086	1.086	99.100	99.1	NO
33	33 13C-1,2,3,4,7,8,9-HpCDF	6.34e5	1.27e6	0.44	NO	0.482	38.96	38.96	NO	1.145	1.145	103.53	104	NO
34	34 13C-OCDF	1.75e6	1.27e6	0.90	NO	0.669	41.53	41.53	NO	1.221	1.221	205.78	103	NO
35	35 37Cl-2,3,7,8-TCDD	1.61e5	1.47e6			1.10	26.05	26.05	NO	1.028	1.028	9.9794	99.8	NO
36	36 13C-1,2,3,4-TCDD	1.47e6	1.47e6	0.79	NO	1.00	25.35	25.35	NO	1.000	1.000	100.00	100	NO
37	37 13C-1,2,3,4-TCDF	2.12e6	2.12e6	0.79	NO	1.00	23.56	23.58	NO	1.000	1.000	100.00	100	NO
38	38 13C-1,2,3,4,6,9-HxCDF	1.27e6	1.27e6	0.51	NO	1.00	34.00	34.02	NO	1.000	1.000	100.00	100	YES*

Dataset: Untitled

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Printed: Tuesday, May 19, 2020 07:24:09 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\ldb5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200518R2_1	SOLVENT BLANK	18-May-20	14:00:16
2	200518R2_2	ST200518R2_1 1613 CS3 19L2305	18-May-20	14:46:59
3	200518R2_3	B0E0079-BS1 OPR 10	18-May-20	15:35:11
4	200518R2_4	SOLVENT BLANK	18-May-20	16:21:26
5	200518R2_5	B0E0079-BLK1 Method Blank 10	18-May-20	17:07:38
6	200518R2_6	2000950-06 PDI-156SC-A-04-05-200423 11.04	18-May-20	17:53:49
7	200518R2_7	2000950-07 PDI-156SC-A-05-06-200423 11.02	18-May-20	18:40:00
8	200518R2_8	2000950-08 PDI-156SC-A-06-07-200423 11.7	18-May-20	19:26:14
9	200518R2_9	2000950-09 PDI-156SC-A-07-08-200423 12.81	18-May-20	20:12:24
10	200518R2_10	2000950-10 PDI-158SC-A-00-01-200423 12.88	18-May-20	20:58:36
11	200518R2_11	2000950-11 PDI-158SC-A-01-02-200423 11.36	18-May-20	21:44:47
12	200518R2_12	2000950-12 PDI-158SC-A-02-03-200423 12.52	18-May-20	22:30:59
13	200518R2_13	2000950-13 PDI-158SC-A-03-04-200423 12.06	18-May-20	23:17:11
14	200518R2_14	2000953-02RE1 PDI-165SC-A-01-02-200426 ...	19-May-20	00:03:23
15	200518R2_15	2000953-03RE1 PDI-165SC-A-02-03-200426 ...	19-May-20	00:49:34
16	200518R2_16	2000951-03RE1 PDI-159SC-A-01-02-200423 ...	19-May-20	01:35:46
17	200518R2_17	2000933-03RE4 PDI-154SC-A-01-02-200422 ...	19-May-20	02:21:57

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Last Altered: Monday, May 18, 2020 15:33:53 Pacific Daylight Time

Printed: Monday, May 18, 2020 15:34:18 Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.87
2	2 1,2,8,9-TCDD (Last)	27.04
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.03
6	6 1,2,3,7,8,9-HxCDD (Last)	34.89
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.39
9	9 1,3,6,8-TCDF (First)	19.81
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1,3,4,6,8-PeCDF (First)	27.16
12	12 1,2,3,8,9-PeCDF (Last)	31.77
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.23
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.97

Dataset: Untitled

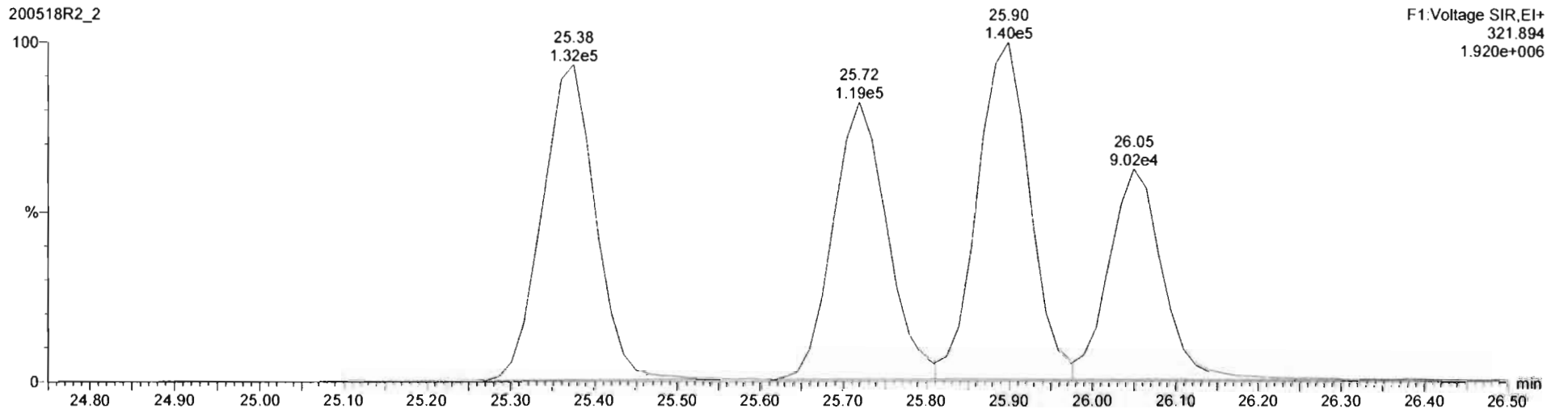
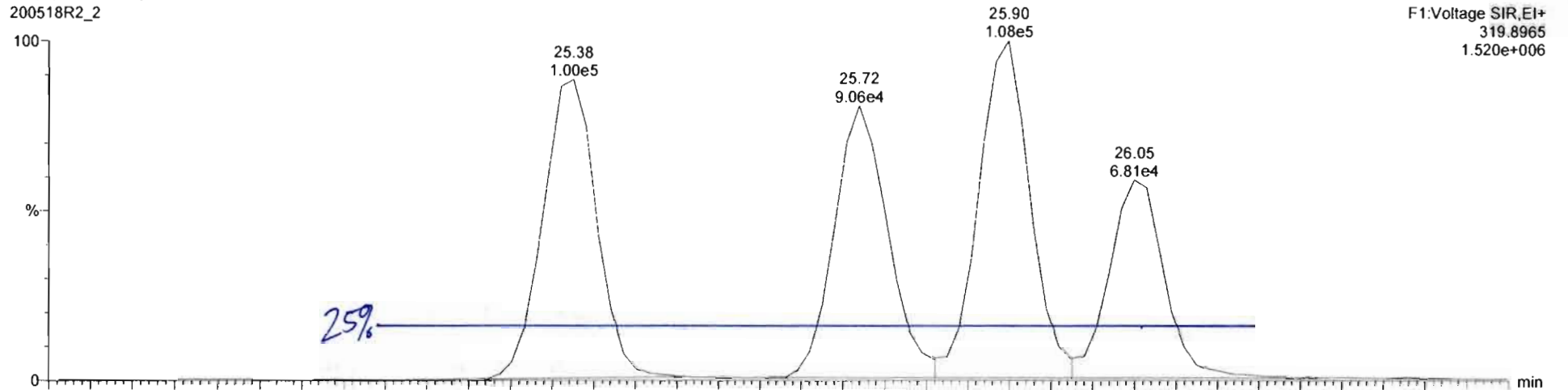
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Printed: Monday, May 18, 2020 15:34:18 Pacific Daylight Time

GRB 05/18/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

1,3,6,8-TCDD (First)



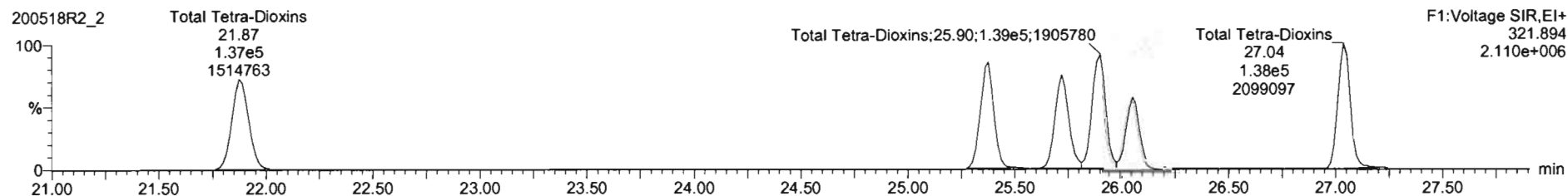
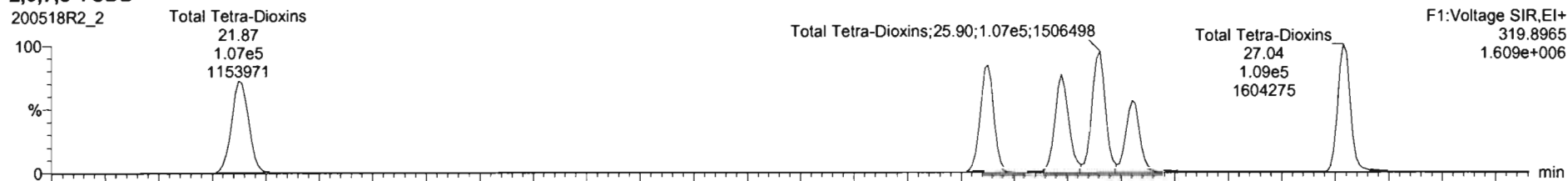
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Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

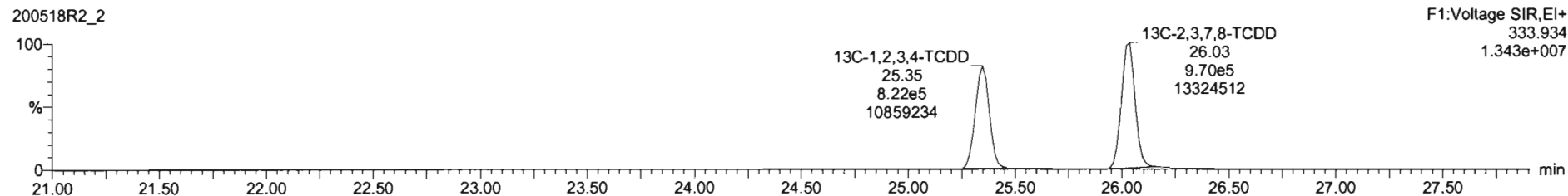
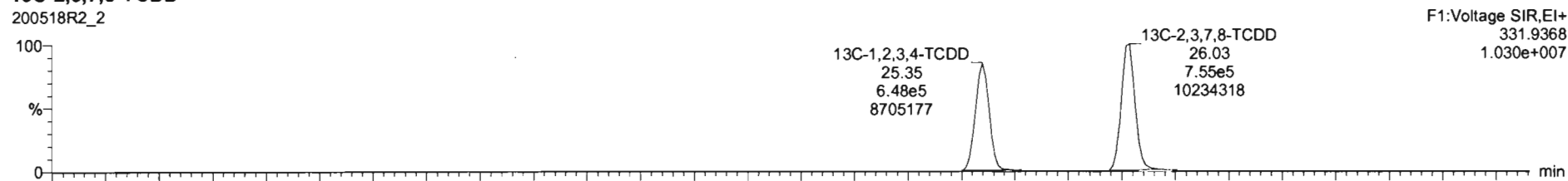
Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



Dataset: Untitled

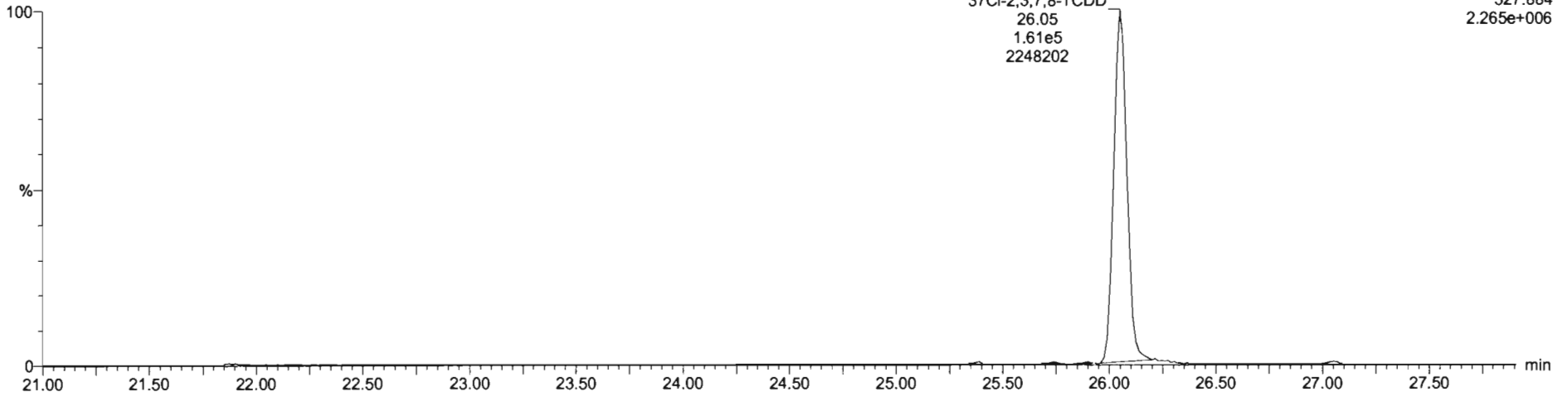
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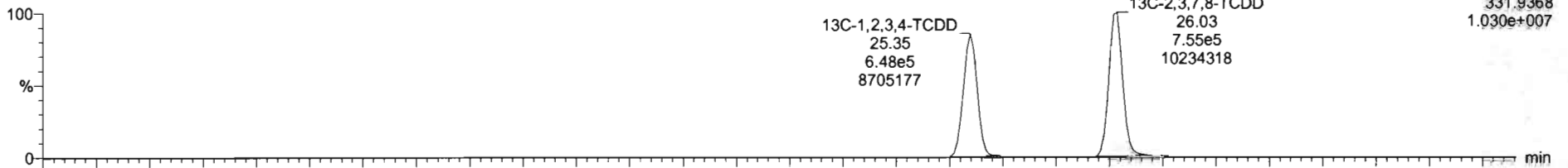
37Cl-2,3,7,8-TCDD

200518R2_2

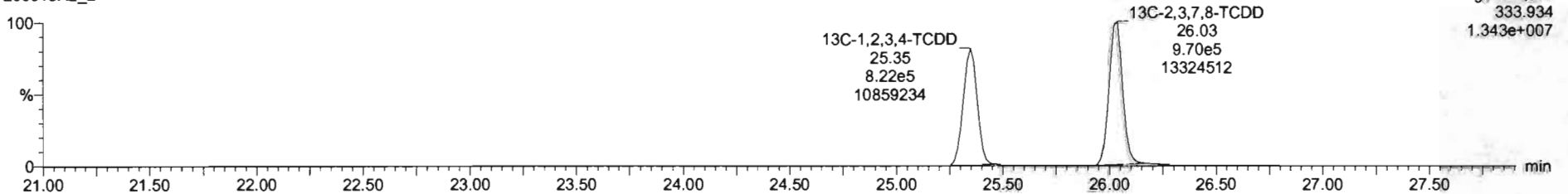


13C-1,2,3,4-TCDD

200518R2_2



200518R2_2



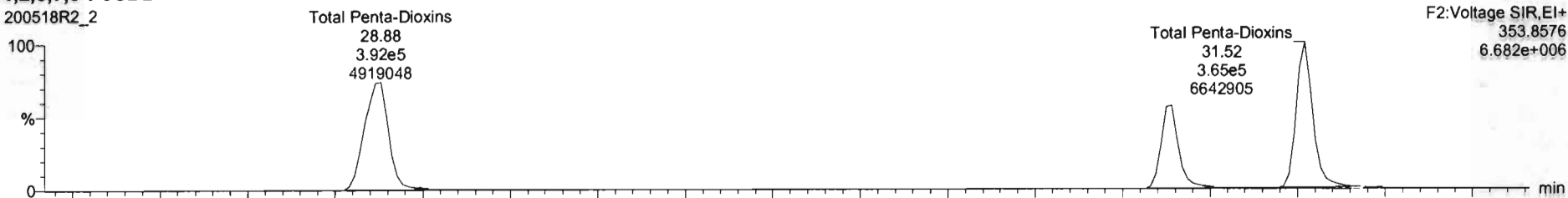
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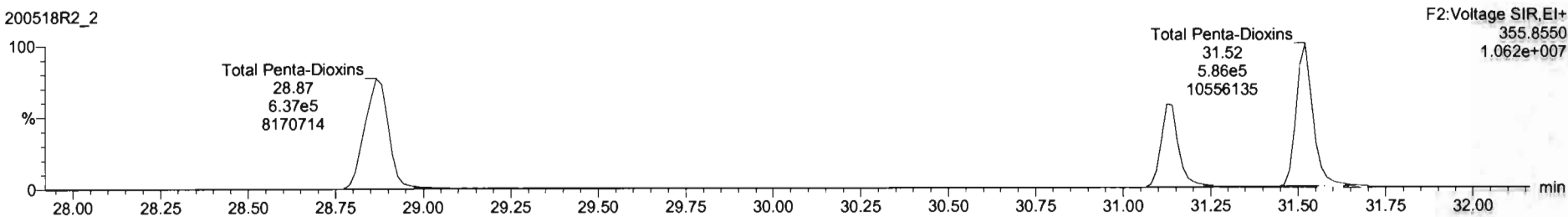
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1,2,3,7,8-PeCDD

200518R2_2

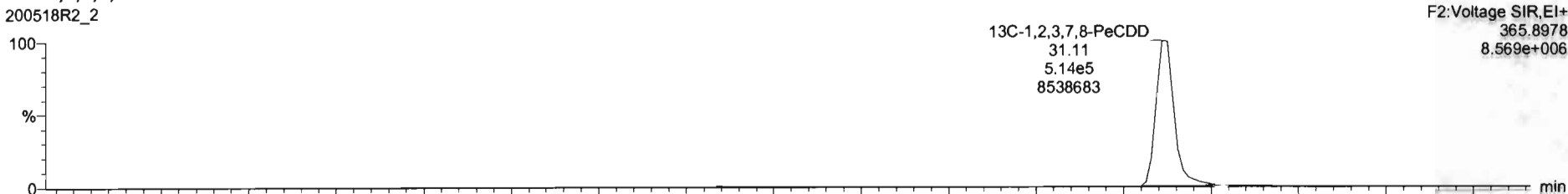


200518R2_2

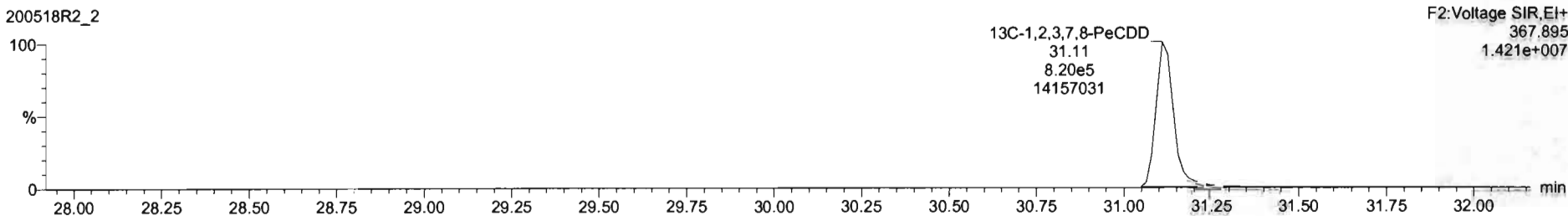


13C-1,2,3,7,8-PeCDD

200518R2_2



200518R2_2



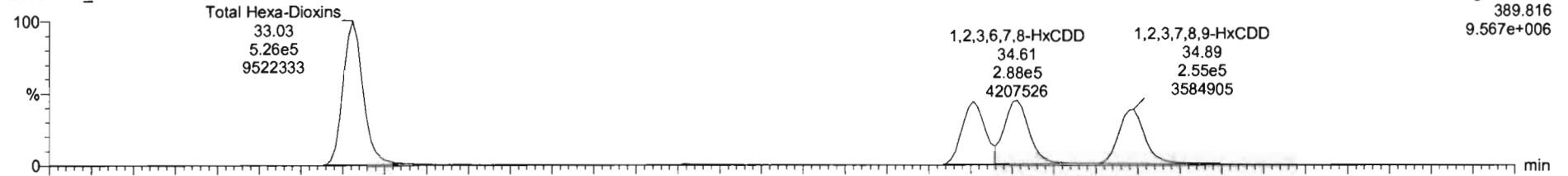
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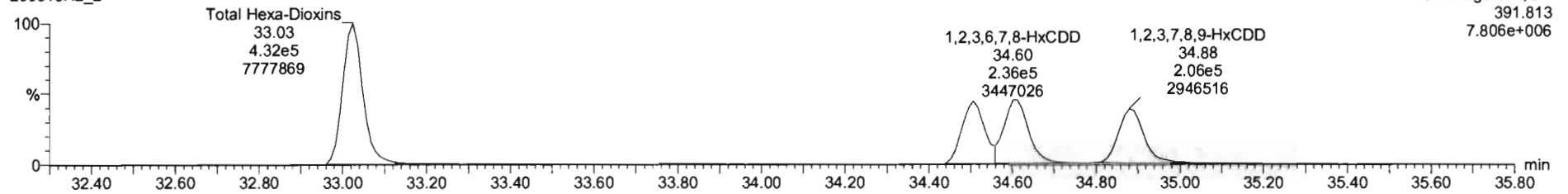
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1,2,3,4,7,8-HxCDD

200518R2_2

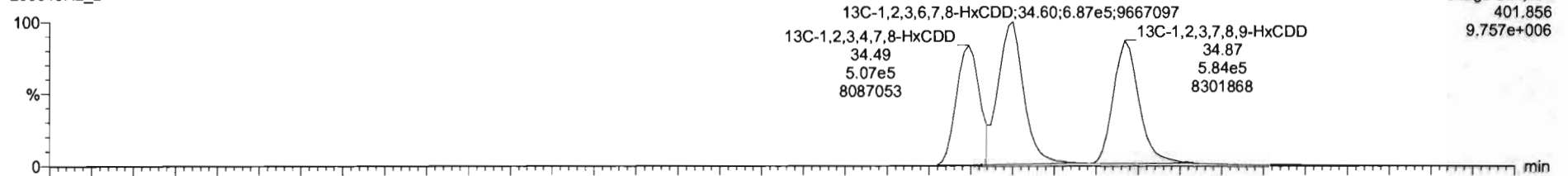


200518R2_2

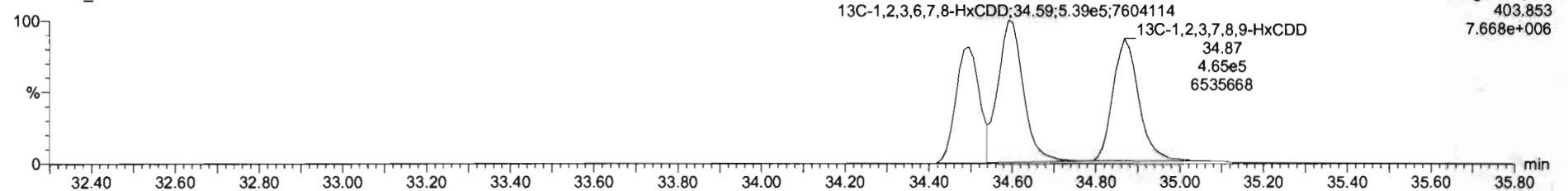


13C-1,2,3,4,7,8-HxCDD

200518R2_2



200518R2_2



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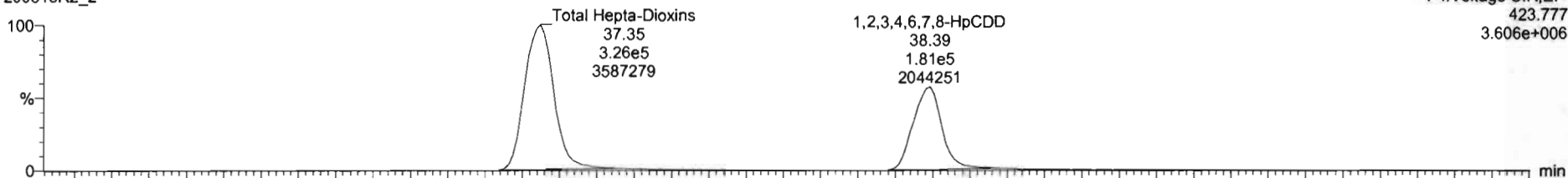
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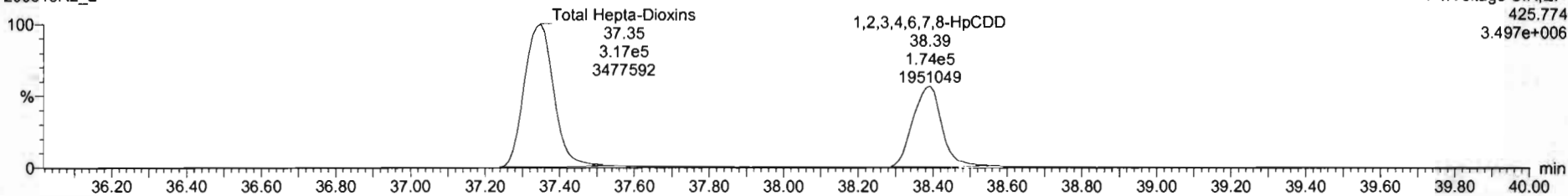
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1,2,3,4,6,7,8-HpCDD

200518R2_2

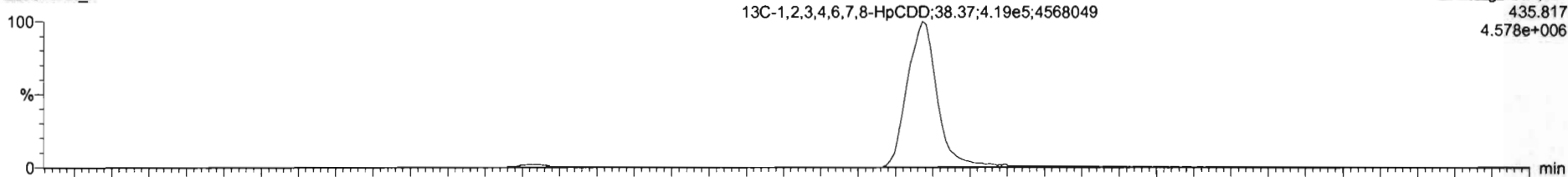


200518R2_2

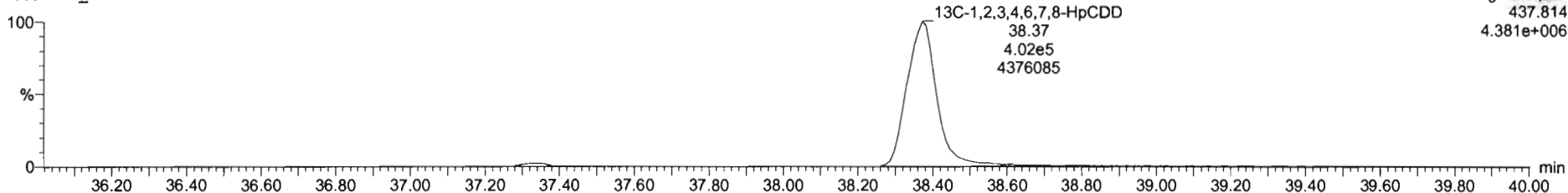


13C-1,2,3,4,6,7,8-HpCDD

200518R2_2



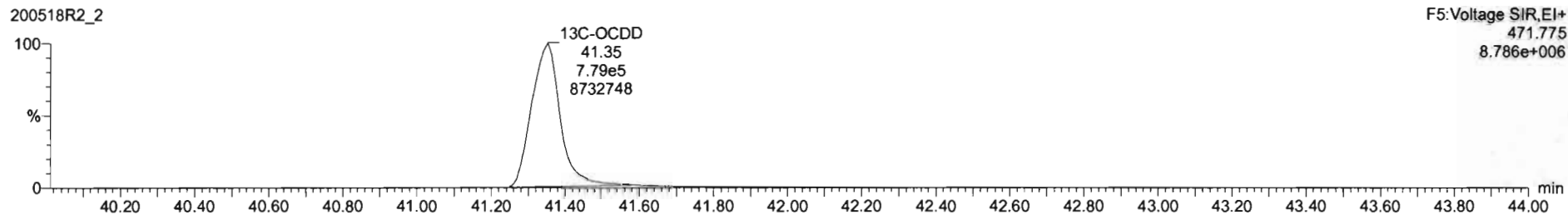
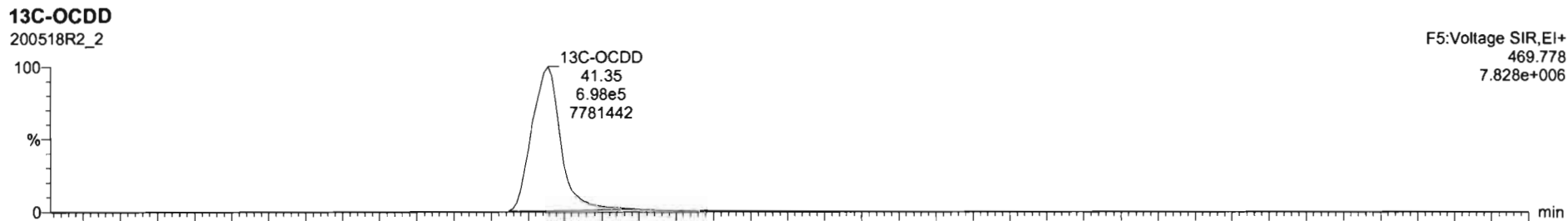
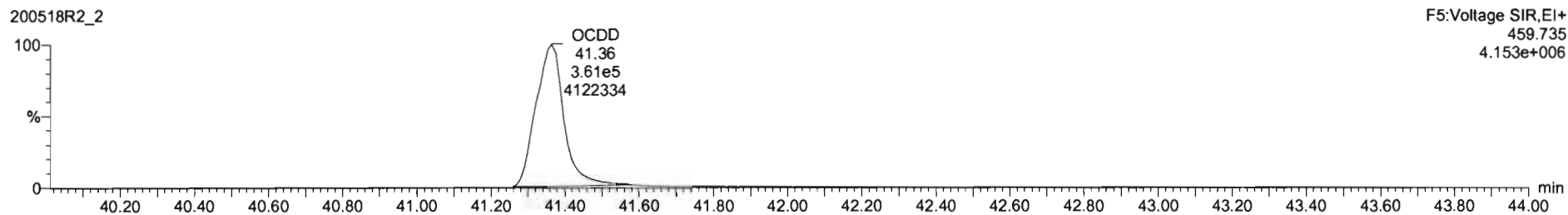
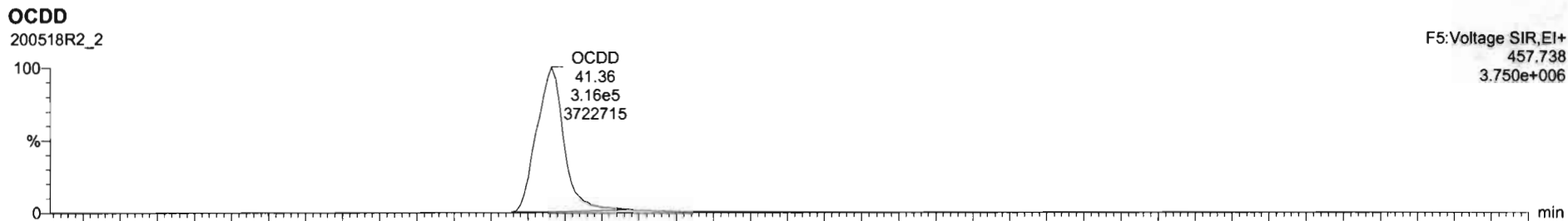
200518R2_2



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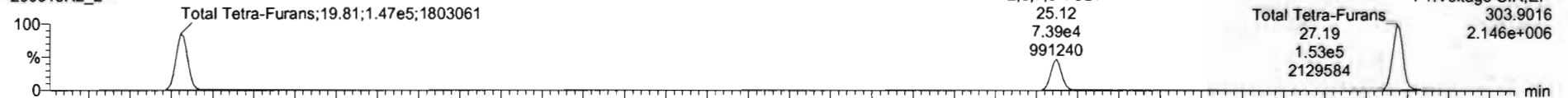
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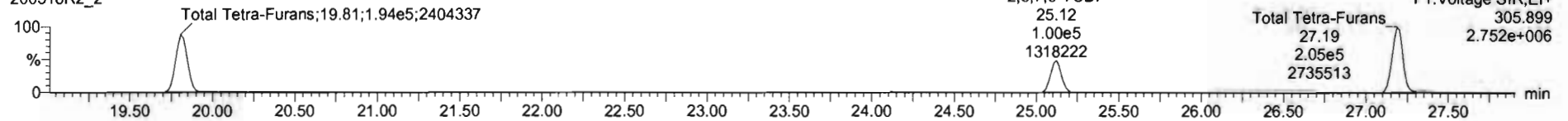
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2,3,7,8-TCDF

200518R2_2

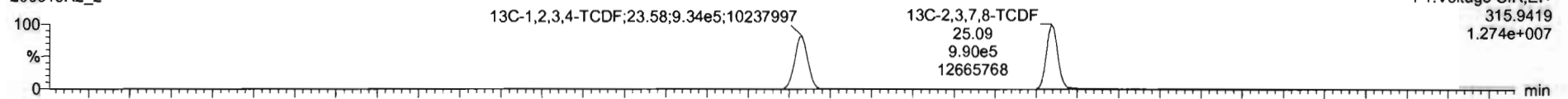


200518R2_2

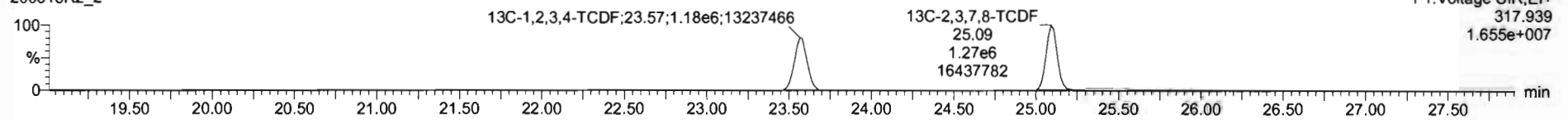


13C-2,3,7,8-TCDF

200518R2_2

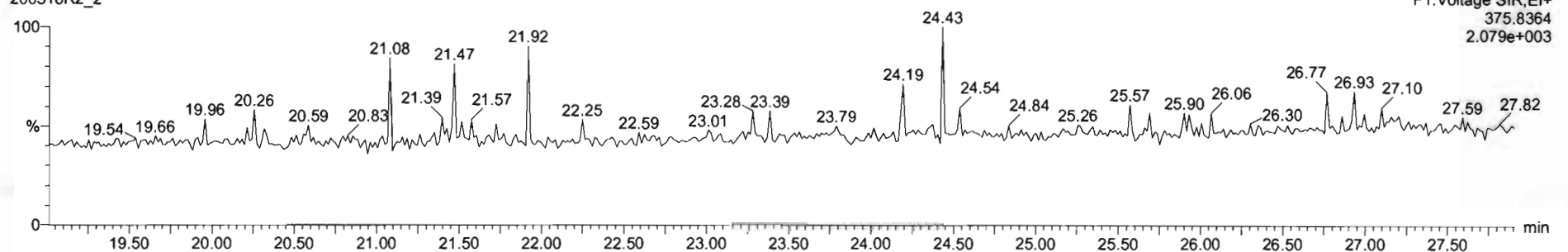


200518R2_2



DPE1

200518R2_2



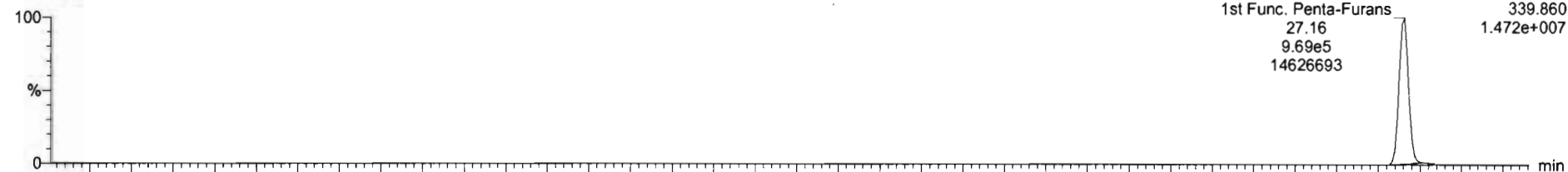
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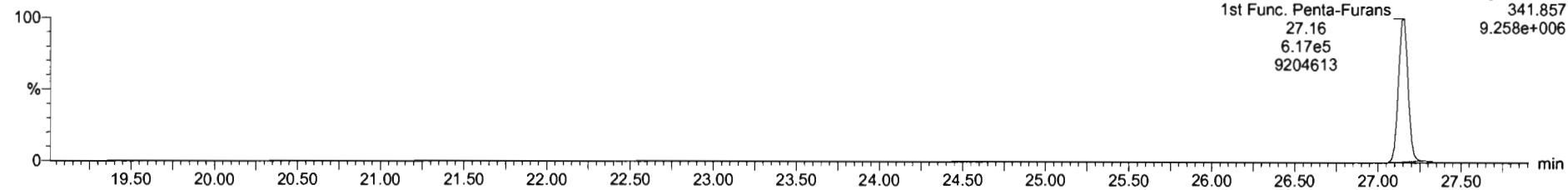
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1st Func. Penta-Furans

200518R2_2

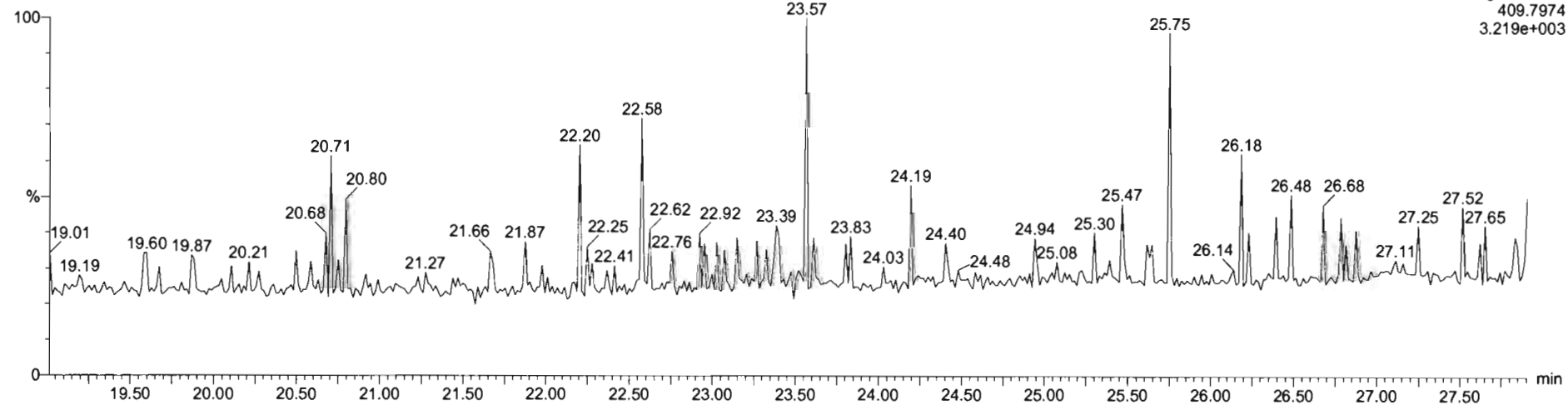


200518R2_2



DPE6

200518R2_2



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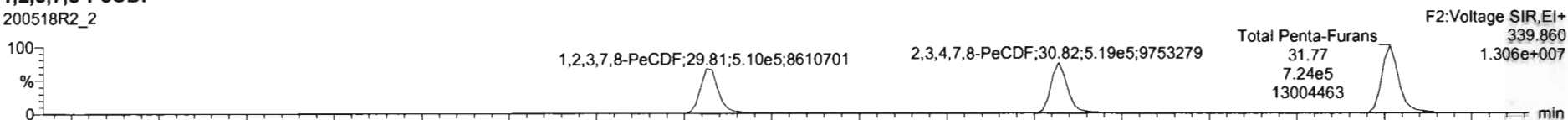
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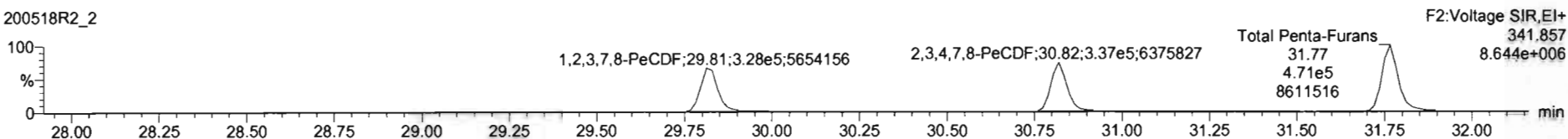
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1,2,3,7,8-PeCDF

200518R2_2

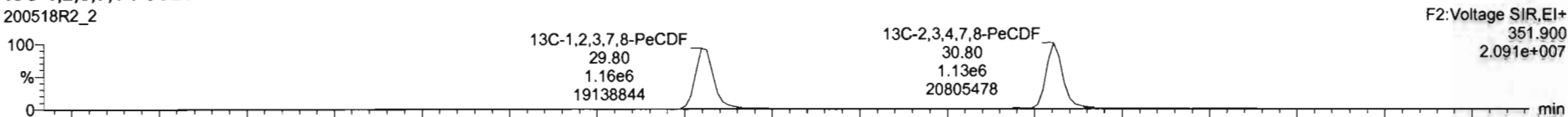


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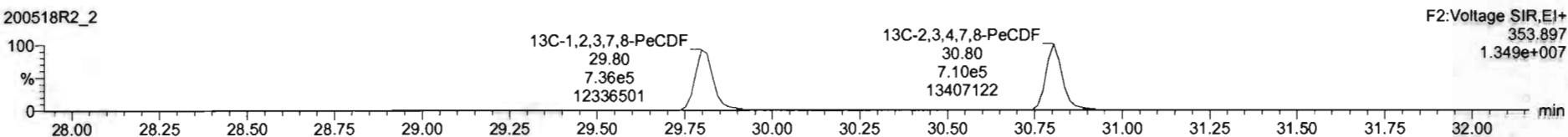


13C-1,2,3,7,8-PeCDF

200518R2_2

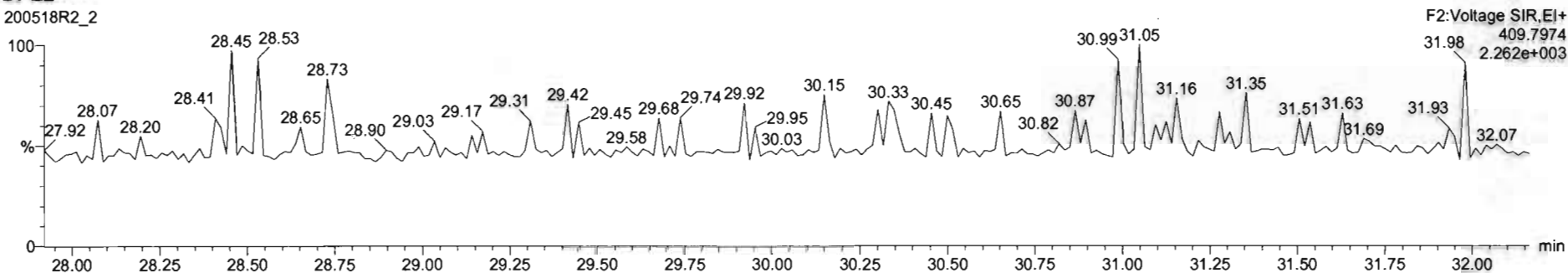


200518R2_2



DPE2

200518R2_2

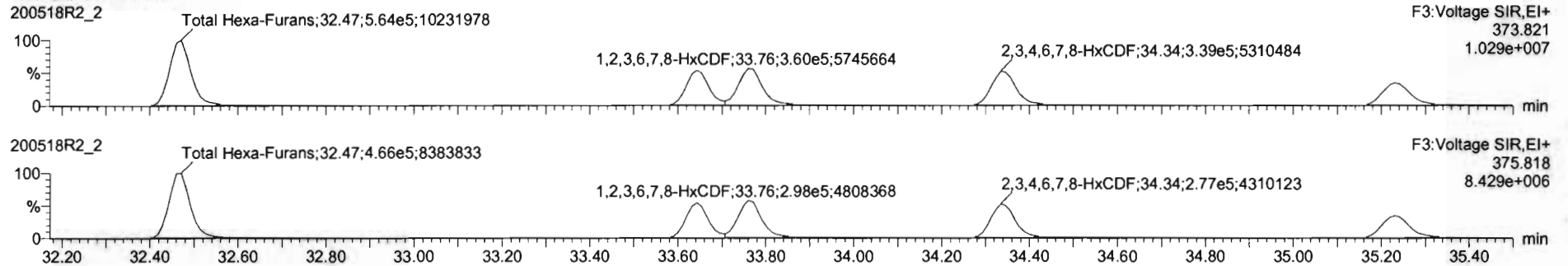


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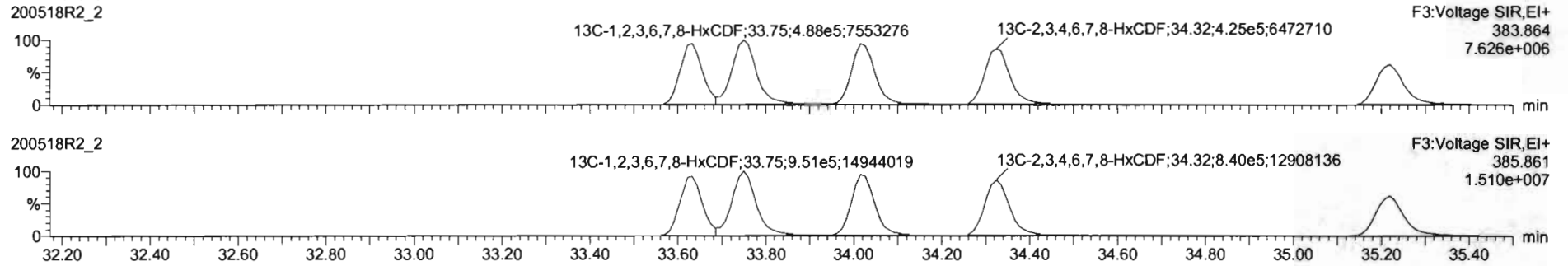
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Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

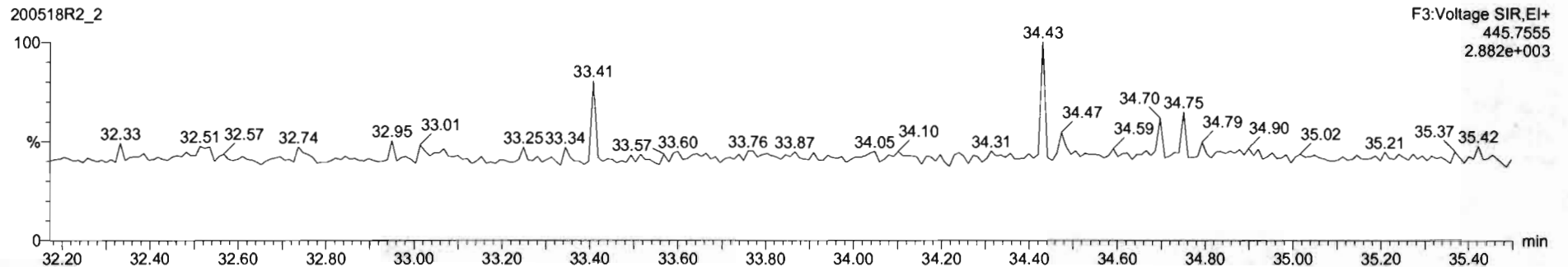
1,2,3,4,7,8-HxCDF



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



DPE3



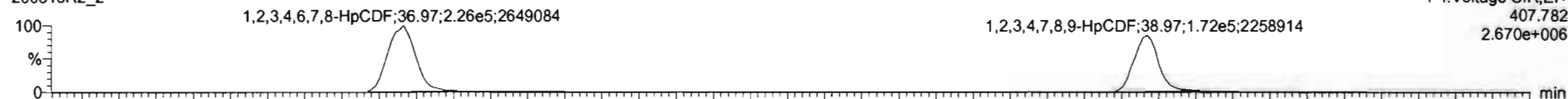
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Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

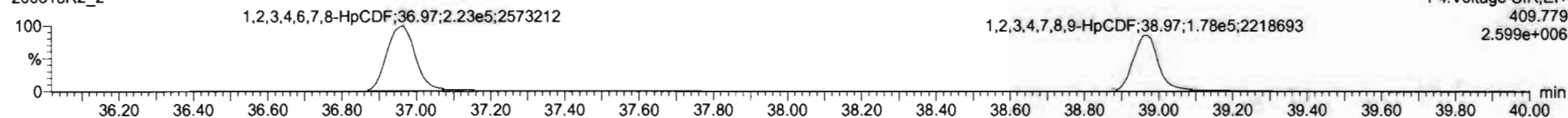
Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200518R2_2

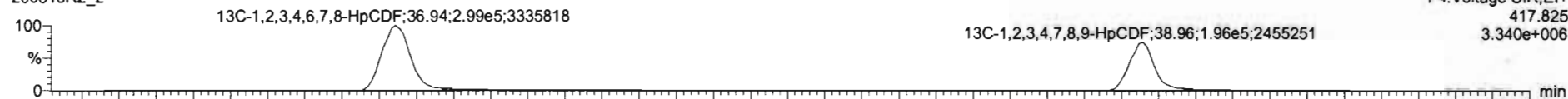


200518R2_2

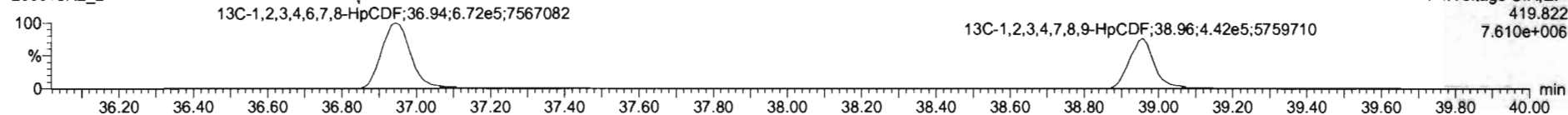


13C-1,2,3,4,6,7,8-HpCDF

200518R2_2

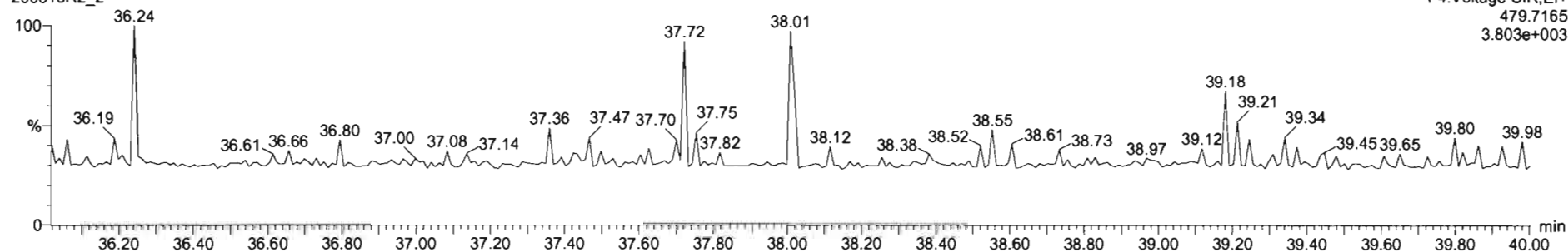


200518R2_2



DPE4

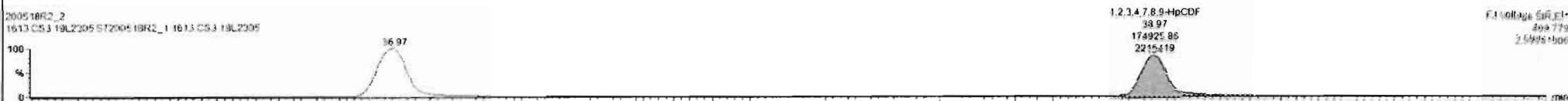
200518R2_2





CS3 19L2305 1613 CS3 19L2305

#	Name	Resp	IS Resp	Pred RA	RA	nly	RRF	Pred RT	RT	RT Flag	Pred RRT	RRT	Conc	%Rec	STD out
1	1,2,3,7,8-TCDD	1.54e5	1.73e6	0.77	0.76	NO	0.9475	26.07	26.06	NO	1.001	1.001	9.41	94.1	NO
2	1,2,3,7,8-PeCDD	5.75e5	1.33e6	0.63	0.62	NO	0.9426	31.13	31.14	NO	1.001	1.001	45.8	91.8	NO
3	1,2,3,4,7,8-HxCDD	4.62e5	9.02e5	1.24	1.23	NO	1.0641	34.51	34.51	NO	1.000	1.000	59.3	101	NO
4	1,2,3,6,7,8-HxCDD	5.23e5	1.23e6	1.24	1.22	NO	0.9145	34.80	34.61	NO	1.000	1.000	46.7	93.3	NO
5	1,2,3,7,8,9-HxCDD	4.62e5	1.05e6	1.24	1.24	NO	0.9149	34.80	34.89	NO	1.000	1.001	48.1	96.3	NO
6	1,2,3,4,6,7,8-HpCDD	3.55e5	8.20e5	1.04	1.04	NO	0.9979	36.36	36.39	NO	1.000	1.001	46.2	96.4	NO
7	OCDD	6.77e5	1.48e6	0.89	0.88	NO	0.9335	41.35	41.36	NO	1.000	1.000	98.2	96.2	NO
8	2,3,7,8-TCDF	1.74e5	2.26e6	0.77	0.74	NO	0.7871	25.12	25.12	NO	1.001	1.001	9.76	97.8	NO
9	1,2,3,7,8-PeCDF	8.38e5	1.89e6	1.55	1.55	NO	0.9102	29.82	29.81	NO	1.001	1.001	48.6	97.2	NO
10	2,3,4,7,8-PeCDF	8.55e5	1.84e6	1.55	1.54	NO	0.9964	30.84	30.82	NO	1.001	1.000	48.1	96.1	NO
11	1,2,3,4,7,8-HxCDF	5.76e5	1.22e6	1.24	1.21	NO	0.9762	32.63	32.64	NO	1.000	1.000	54.0	108	NO
12	1,2,3,6,7,8-HxCDF	6.58e5	1.44e6	1.24	1.21	NO	0.8740	33.78	33.76	NO	1.000	1.000	52.3	105	NO
13	2,3,4,6,7,8-HxCDF	6.16e5	1.27e6	1.24	1.22	NO	0.9217	34.36	34.33	NO	1.001	1.000	52.8	106	NO
14	1,2,3,7,8,9-HxCDF	4.66e5	1.03e6	1.24	1.24	NO	0.9642	35.22	35.23	NO	1.000	1.000	52.4	105	NO
15	1,2,3,4,6,7,8-HpCDF	4.49e5	9.70e5	1.04	1.01	NO	0.8712	36.90	36.97	NO	1.001	1.001	53.1	106	NO
16	1,2,3,4,6,7,8,9-HpCDF	3.47e5	8.34e5	1.04	0.98	NO	1.0118	38.96	38.97	NO	1.000	1.000	54.1	108	NO
17	OCDF	7.32e5	1.75e6	0.89	0.87	NO	0.8921	41.53	41.56	NO	1.000	1.001	105	105	NO
18	13C-2,3,7,8-TCDD	1.73e6	1.47e6	0.77	0.78	NO	1.1595	26.02	26.03	NO	1.026	1.027	101	101	NO
19	13C-1,2,3,7,8-PeCDD	1.33e6	1.47e6	0.63	0.63	NO	0.8472	31.10	31.11	NO	1.227	1.227	107	107	NO
20	13C-1,2,3,4,7,8-HxCDD	9.02e5	1.27e6	1.24	1.26	NO	0.7499	34.50	34.49	NO	1.014	1.014	94.7	94.7	NO
21	13C-1,2,3,6,7,8-HxCDD	1.23e6	1.27e6	1.24	1.27	NO	0.9630	34.61	34.60	NO	1.017	1.017	100	100	NO

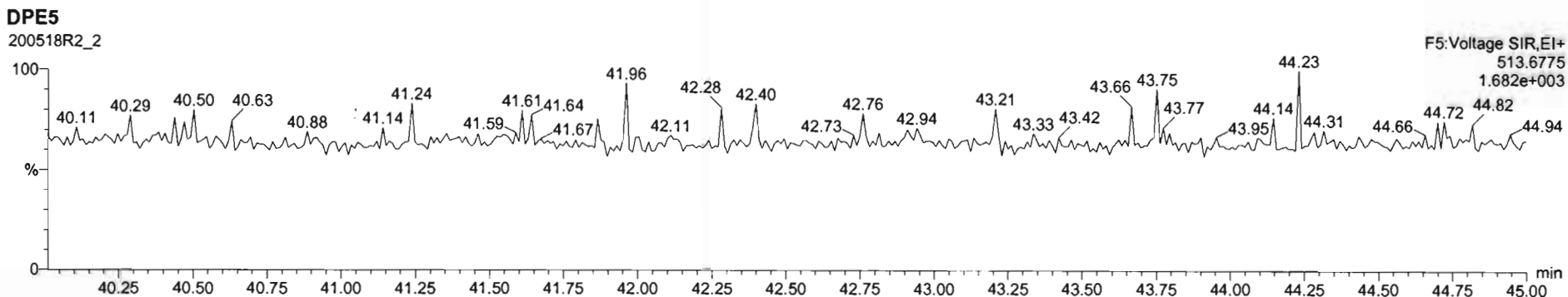
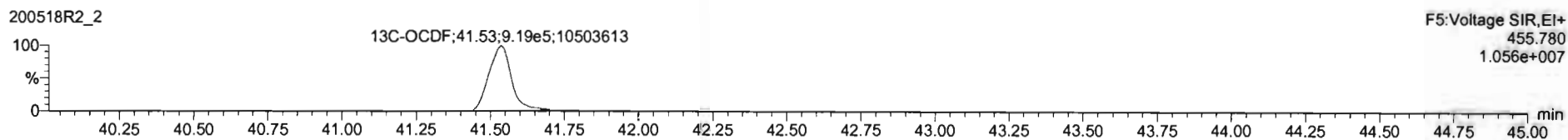
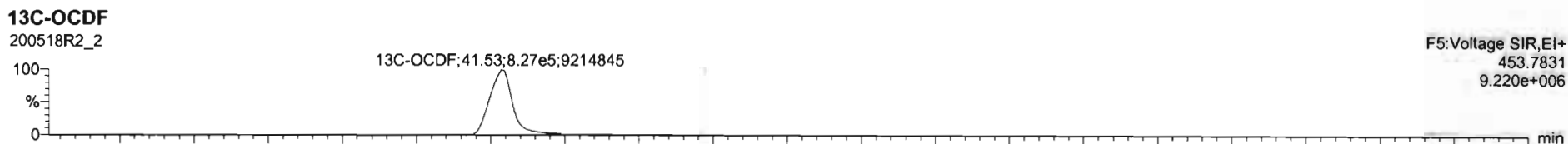
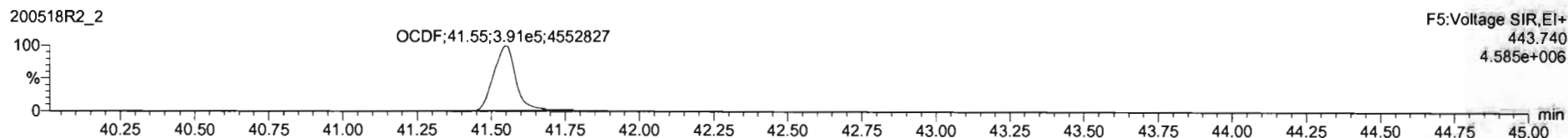
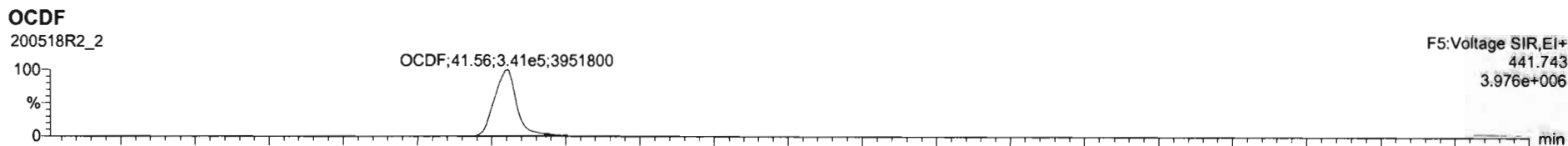


Ready 200518R2_1 3:37 PM

Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

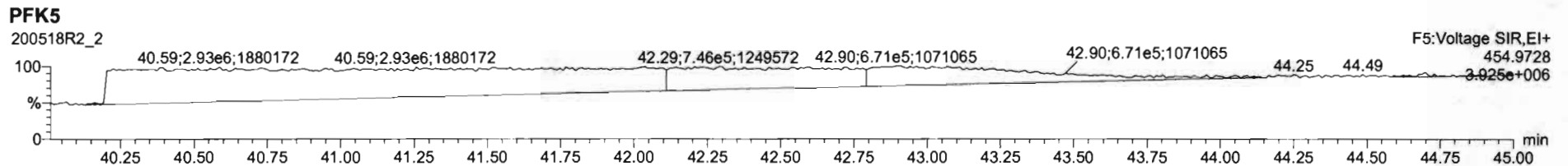
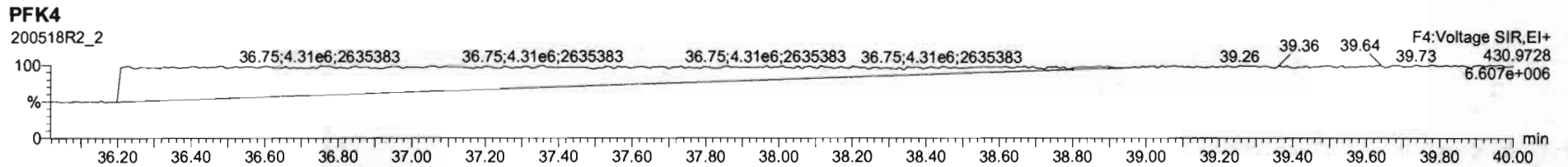
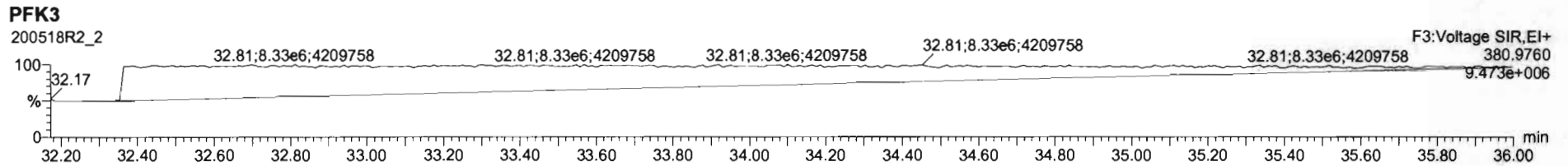
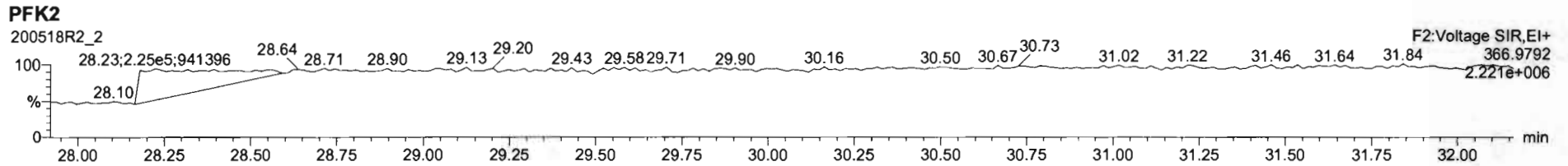
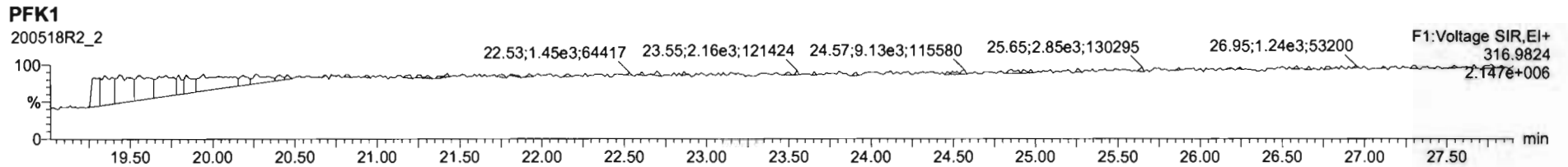
Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



Dataset: Untitled

Last Altered: Monday, May 18, 2020 15:34:39 Pacific Daylight Time
Printed: Monday, May 18, 2020 15:34:42 Pacific Daylight Time

Name: 200518R2_2, Date: 18-May-2020, Time: 14:46:59, ID: ST200518R2_1 1613 CS3 19L2305, Description: 1613 CS3 19L2305



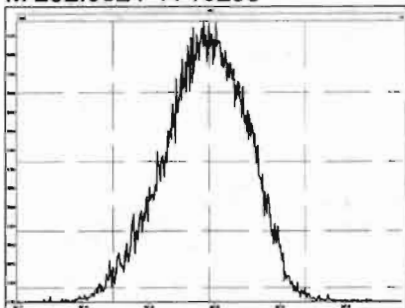
Experiment Calibration Report

MassLynx 4.1 SCN815

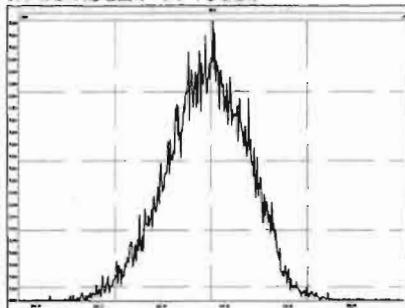
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Printed: Tuesday, May 19, 2020 07:19:18 Pacific Daylight Time

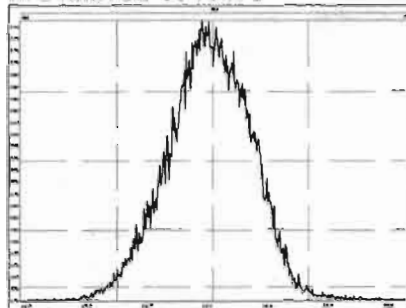
M 292.9824 R 10203



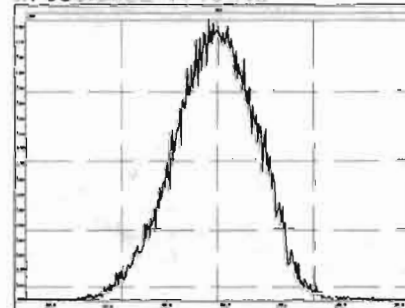
M 304.9824 R 10680



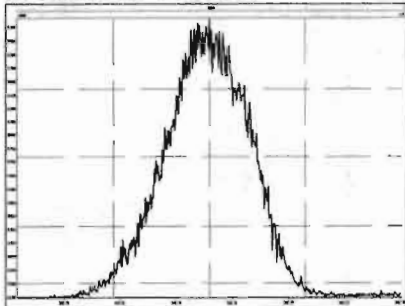
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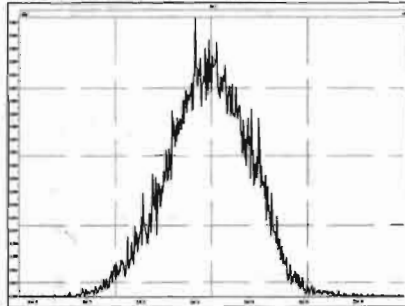
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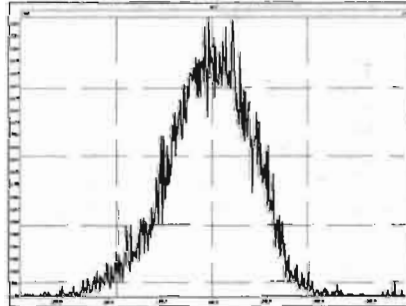
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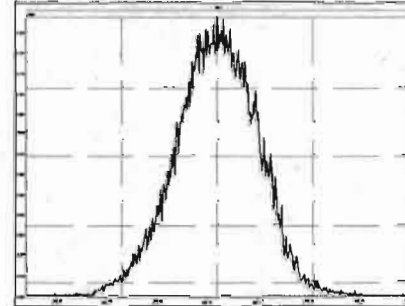
M 354.9792 R 10203



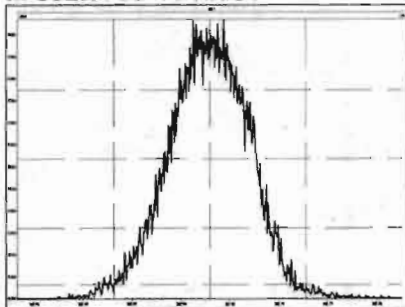
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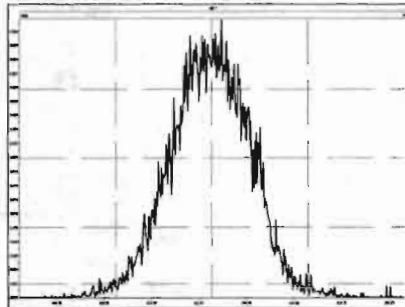
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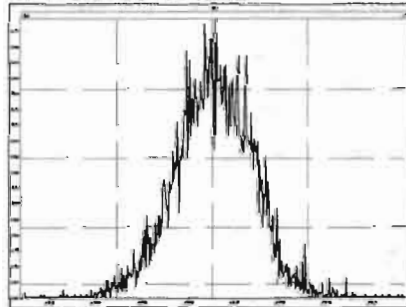
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M 404.9760 R 11013



M 416.9760 R 12624



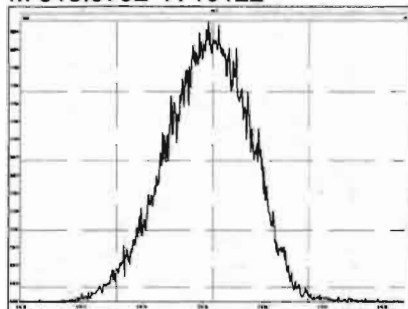
Experiment Calibration Report

MassLynx 4.1 SCN815

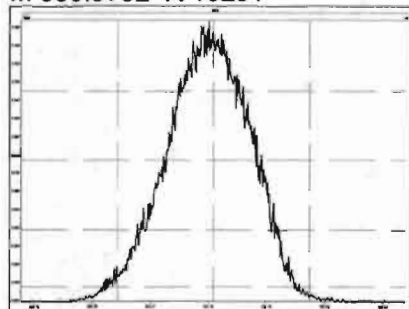
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Printed: Tuesday, May 19, 2020 07:19:57 Pacific Daylight Time

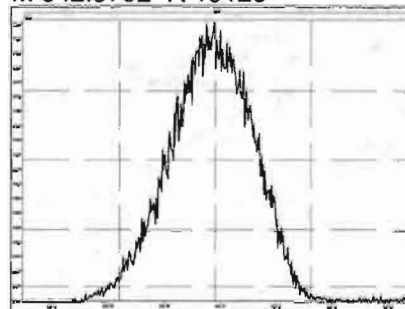
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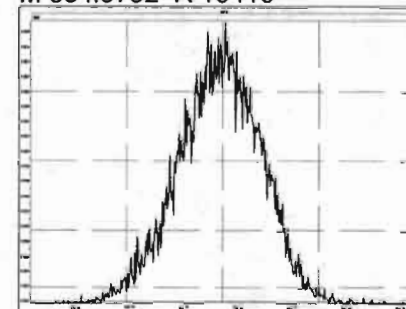
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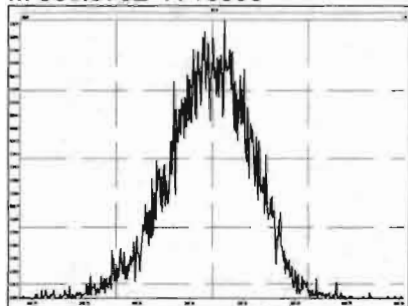
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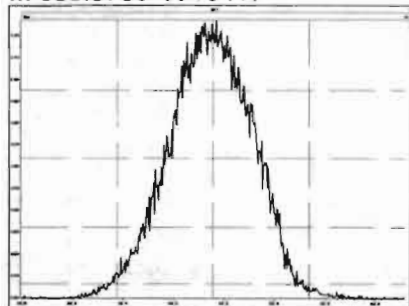
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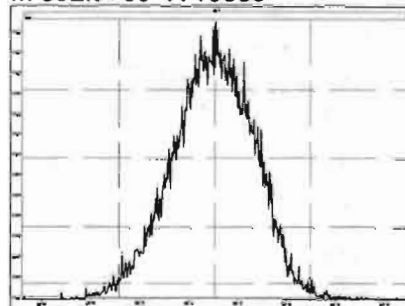
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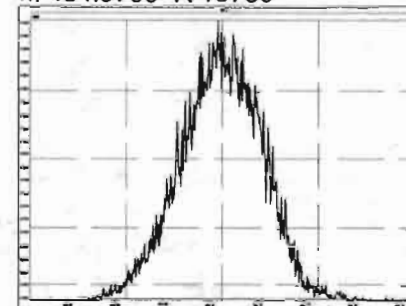
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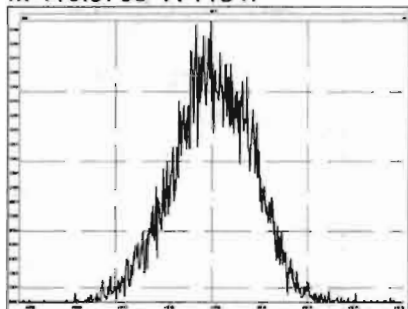
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M 404.9760 R 10730



M 416.9760 R 11847



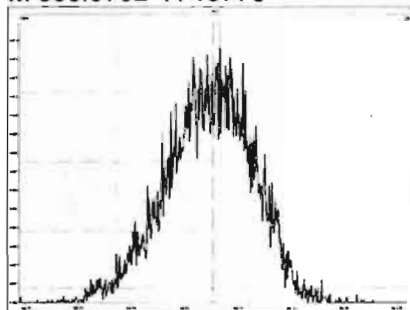
Experiment Calibration Report

MassLynx 4.1 SCN815

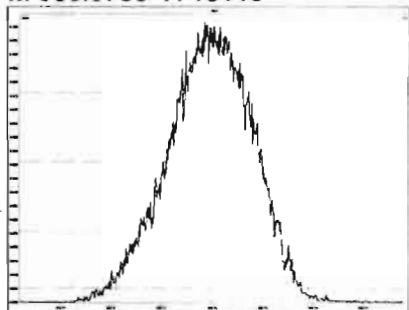
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Printed: Tuesday, May 19, 2020 07:21:22 Pacific Daylight Time

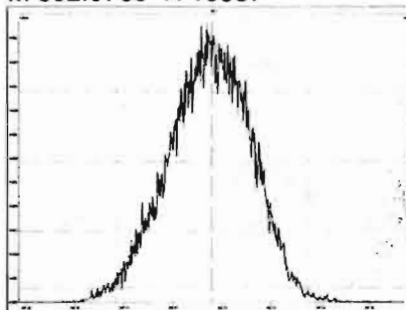
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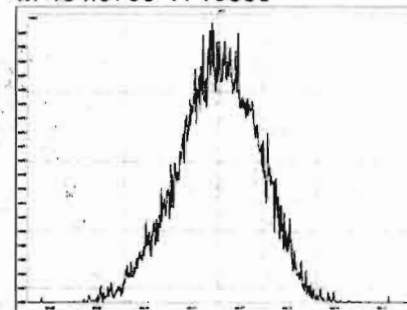
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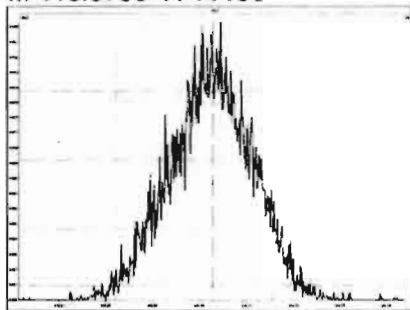
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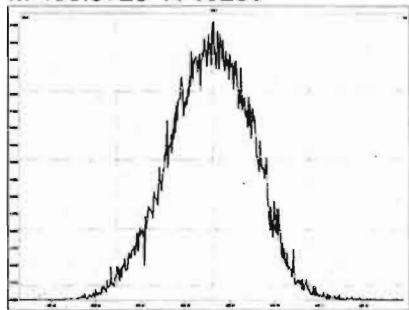
M 404.9760 R 10635



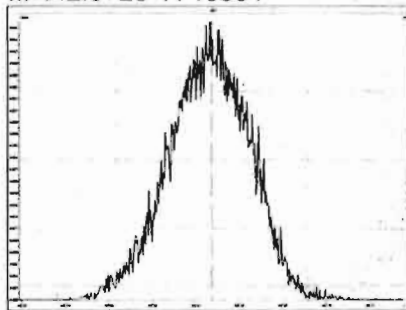
M 416.9760 R 11160



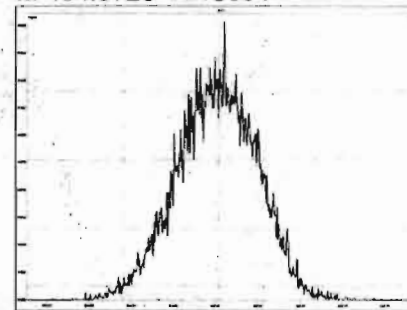
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M 442.9728 R 10684



M 454.9728 R 10591



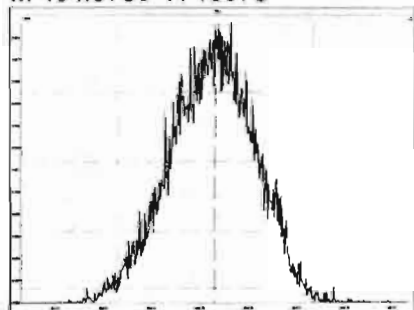
Experiment Calibration Report

MassLynx 4.1 SCN815

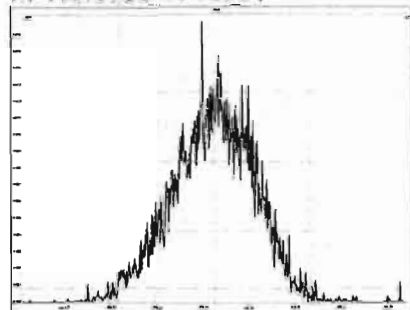
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Printed: Tuesday, May 19, 2020 07:22:01 Pacific Daylight Time

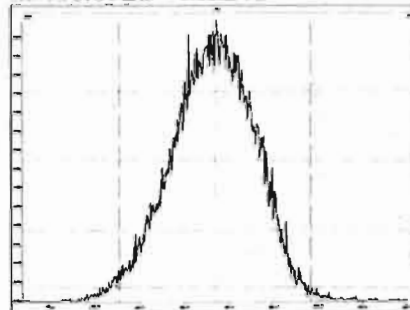
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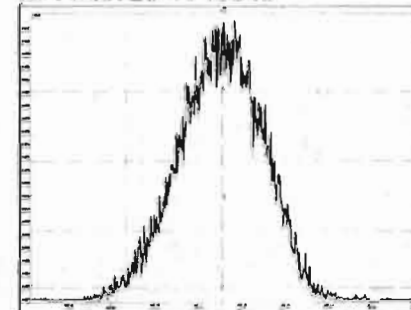
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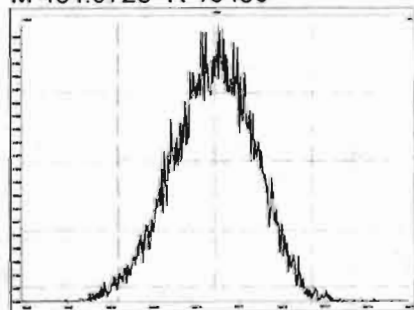
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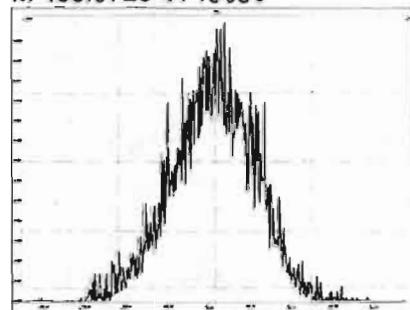
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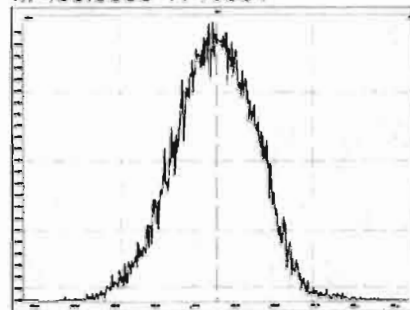
M 454.9728 R 10460



M 466.9728 R 10550



M 480.9696 R 10504



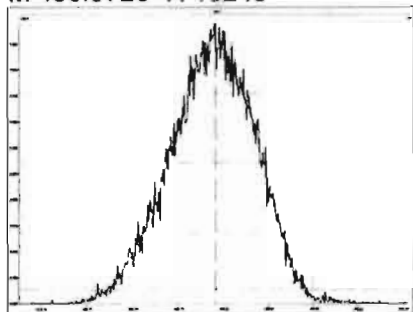
Experiment Calibration Report

MassLynx 4.1 SCN815

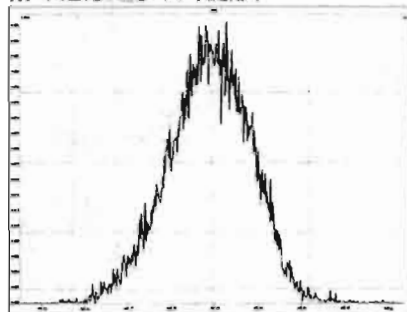
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Printed: Tuesday, May 19, 2020 07:22:37 Pacific Daylight Time

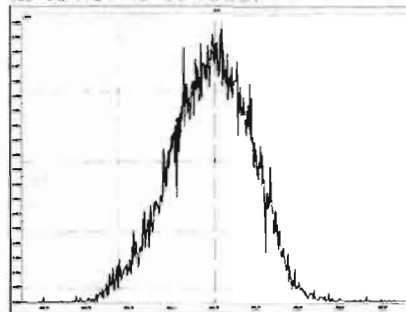
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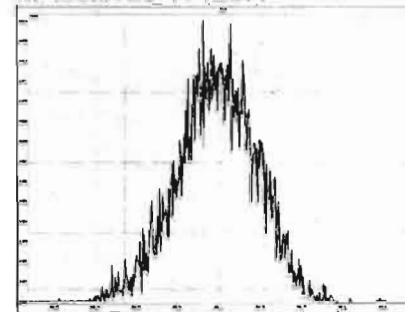
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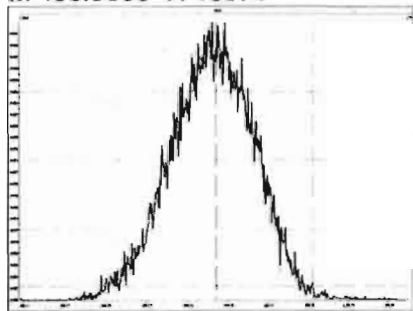
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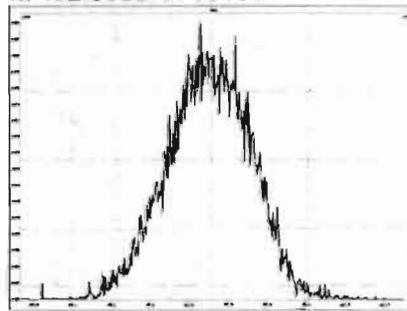
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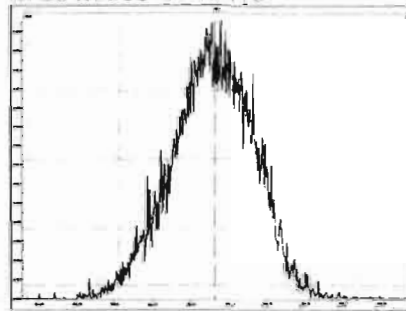
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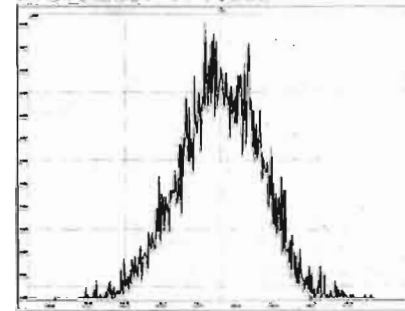
M 492.9696 R 10414



M 504.9696 R 10416



M 516.9697 R 11008



HRMS CALIBRATION STANDARDS REVIEW CHECKLIST

Beg. Calibration ID: ST200520D1-1

Reviewed By: OT 05/21/2020
Initials & Date

End Calibration ID: NA

	<u>Beg.</u>	<u>End</u>
Ion abundance within QC limits?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
Concentrations within criteria?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TCDD/TCDF Valleys <25%	<input checked="" type="checkbox"/>	<input type="checkbox"/>
First and last eluters present?	<input type="checkbox"/> NA	<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>	<u>DB</u>
Run Log:		
- Correct instrument listed?	<input checked="" type="checkbox"/>	<input type="checkbox"/> ↓
- Samples within 12 hour clock?	<input type="checkbox"/> (Y)	<input type="checkbox"/> N
- Bottle position verified?	<input type="checkbox"/>	<input type="checkbox"/> DB

	<u>Beg.</u>	<u>End</u>
Mass resolution ≥	<input checked="" type="checkbox"/> A	<input checked="" type="checkbox"/>
<input type="checkbox"/> 5k <input type="checkbox"/> 6-8K <input type="checkbox"/> 8K <input checked="" type="checkbox"/> 10K 1614 1699 429 1613/1668/8280		
Intergrated peaks display correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/> NA
GC Break <20%	<input type="checkbox"/>	<input type="checkbox"/> NA
8280 CS1 End Standard:		
- Ratios within limits, S/N <2.5:1, CS1 within 12 hours		<input type="checkbox"/> NA

Comments:
 INSTRUMENT WENT INTO 'PAUSE' FOR AN UNKNOWN REASON.
 END) RES CHECK PRINTED OUT IN THE MORNING.
 A) PFK drain

Dataset: U:\VG7.PRO\Results\200520D1\200520D1_2.qld

Last Altered: Wednesday, May 20, 2020 13:31:55 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:32:21 Pacific Daylight Time

DB 5/20/20 C105/20/2020

Method: C:\MassLynx\Default.pro\Methdb\lctcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdvfg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1_2, Date: 20-May-2020, Time: 13:04:49, ID: ST200520D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	Resp	RA	n/y	RRF	w/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDF	1.30e3	0.86	NO	0.982	1.000	17.620	17.60	1.000	1.000	9.1634	91.6	0.845	9.16
2	2 13C-2,3,7,8-TCDF	1.44e4	0.78	NO	1.08	1.000	17.654	17.60	1.133	1.136	105.58	106	2.66	
3	3 13C-1,2,3,4-TCDF	1.26e4	0.88	NO	1.00	1.000	15.660	15.49	1.000	1.000	100.00	100	2.88	

Vista Analytical Laboratory VG-11

Dataset: Untitled

Last Altered: Thursday, May 21, 2020 09:16:49 Pacific Daylight Time

Printed: Thursday, May 21, 2020 09:17:06 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

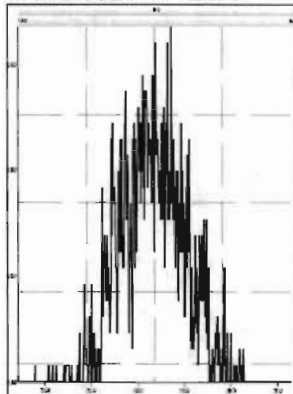
Compound name: 2,3,7,8-TCDF

	Name	ID	Acq.Date	Acq.Time
1	200520D1_1	CP200520D1-1 DB-225 CPSM	20-May-20	12:34:41
2	200520D1_2	ST200520D1-1 1613 CS3 19L2305	20-May-20	13:04:49
3	200520D1_3	SOLVENT BLANK	20-May-20	13:36:33
4	200520D1_4	2000951-03RE2 PDI-159SC-A-01-02-200423 ...	20-May-20	14:08:18
5	200520D1_5	2000830-01RE1 Dredging Feed Slurry 59.86	20-May-20	14:39:59
6	200520D1_6	2000830-02RE1 Dredging Cake/Product 41.01	20-May-20	15:11:41
7	200520D1_7	2000946-01RE1 PDI-162SC-A-00-01-200424 ...	20-May-20	15:43:24
8	200520D1_8	2000946-02RE1 PDI-162SC-A-02-03-200424 ...	20-May-20	16:15:08
9	200520D1_9	2000946-03RE1 PDI-162SC-A-03-04-200424 ...	20-May-20	16:46:50
10	200520D1_10	2000946-04RE1 PDI-162SC-A-04-05-200424 ...	20-May-20	17:18:33
11	200520D1_11	2000932-20RE3 SD-0033 26.4	20-May-20	17:50:15
12	200520D1_12	2000953-02RE2 PDI-165SC-A-01-02-200426 ...	20-May-20	18:21:56
13	200520D1_13	2000931-01RE4 Biosolid Composite 27.85	20-May-20	18:53:38
14	200520D1_14	2000950-10RE1 PDI-158SC-A-00-01-200423 ...	20-May-20	19:25:21
15	200520D1_15	B0E0019DUP1RE1 Duplicate	20-May-20	19:57:03
16	200520D1_16	2000976-01RE1 PDI-153SC-A-00-01-200427 ...	20-May-20	20:28:46
17	200520D1_17	2000957-01RE1 PDI-1147SC-A-13-14-200425...	20-May-20	21:00:27
18	200520D1_18	2000957-02RE1 PDI-147SC-A-00-01-200425 ...	20-May-20	21:32:10
19	200520D1_19	2000957-03RE1 PDI-147SC-A-05-06-200425 ...	20-May-20	22:03:53

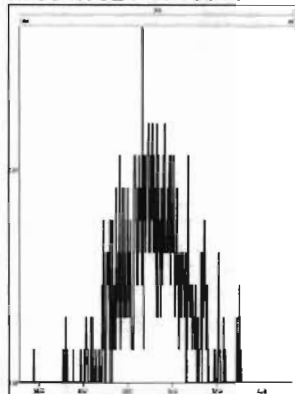
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, May 20, 2020 12:33:36 Pacific Daylight Time

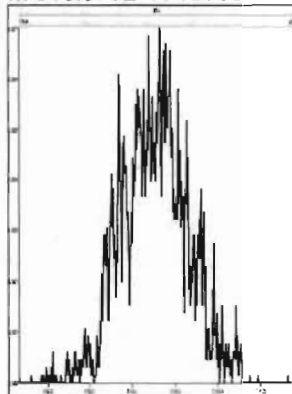
M 292.9824 R 12079



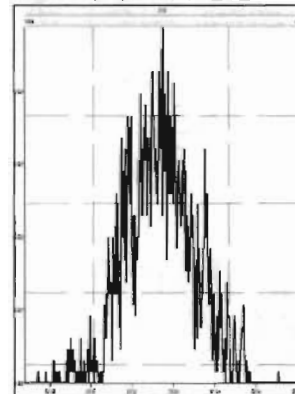
M 304.9824 R 18518



M 318.9792 R 10963



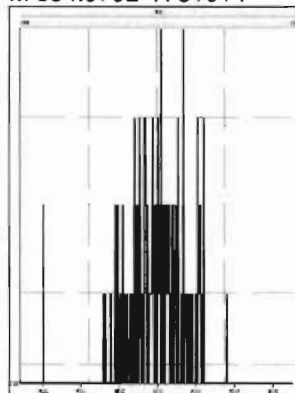
M 330.9792 R 11212



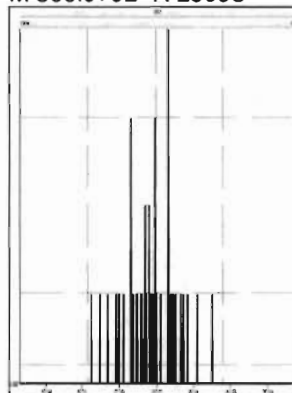
M 342.9792 R 12438



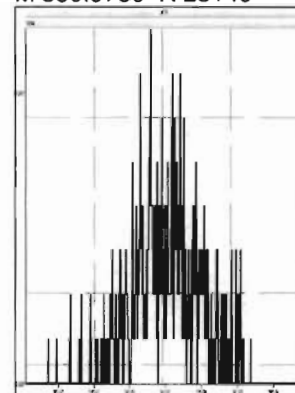
M 354.9792 R 51014

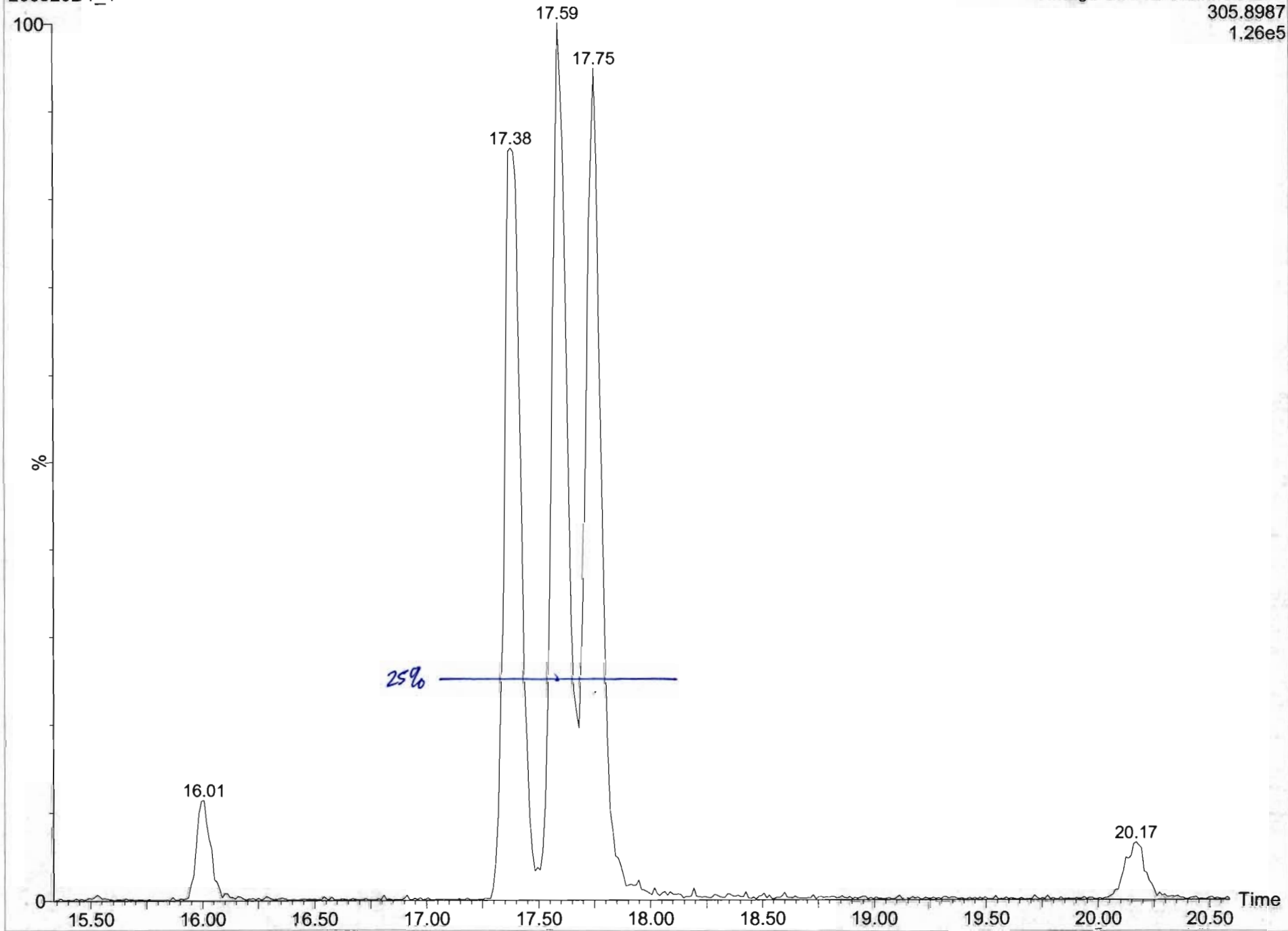


M 366.9792 R 28093



M 380.9760 R 23149



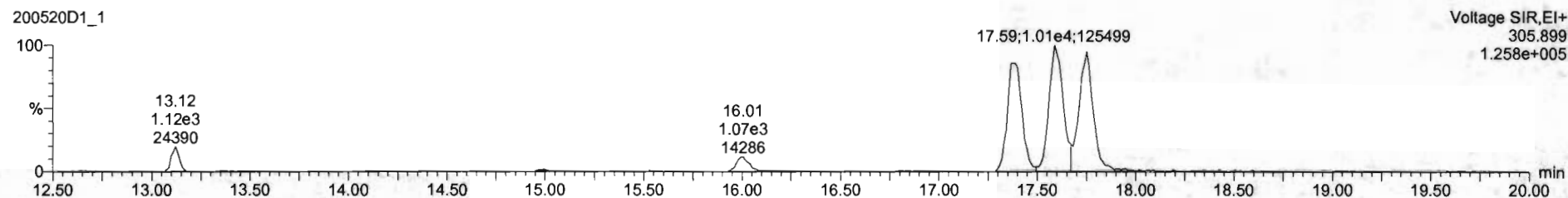
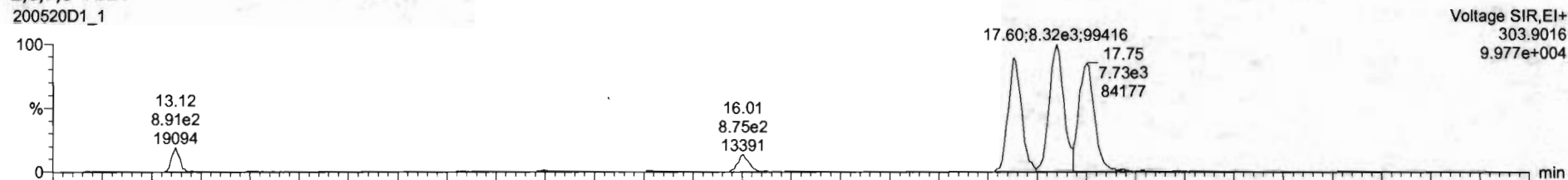


Dataset: U:\VG7.PRO\Results\200520D1\200520D1_1.qld
Last Altered: Wednesday, May 20, 2020 13:34:05 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:35:13 Pacific Daylight Time

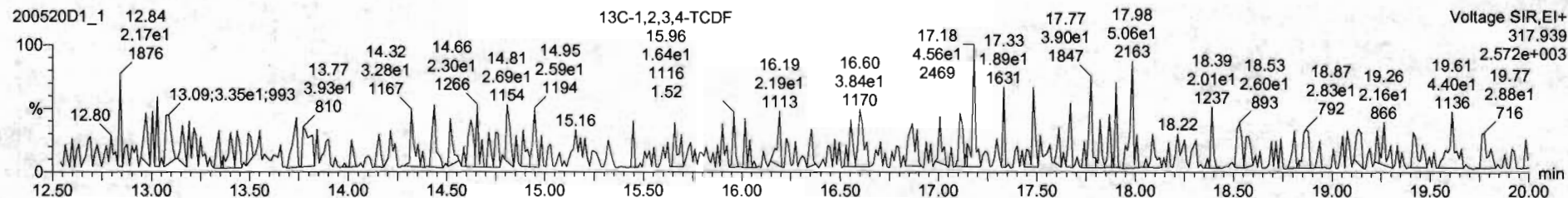
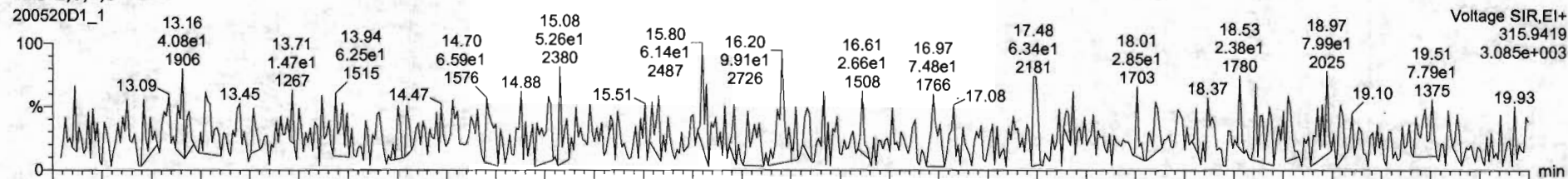
Method: C:\MassLynx\Default.PRO\MethDB\tcdf.mdb 23 Mar 2020 11:10:19
Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

Name: 200520D1_1, Date: 20-May-2020, Time: 12:34:41, ID: CP200520D1-1 DB-225 CPSM, Description: DB-225 CPSM

2,3,7,8-TCDF



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

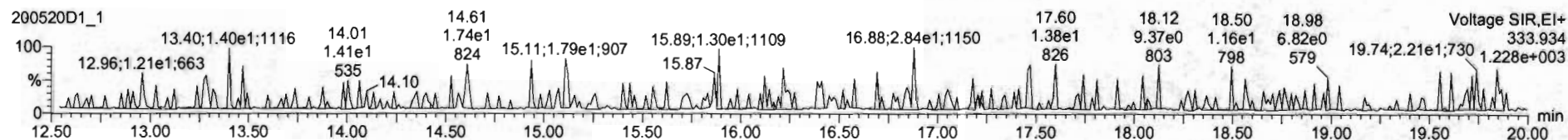
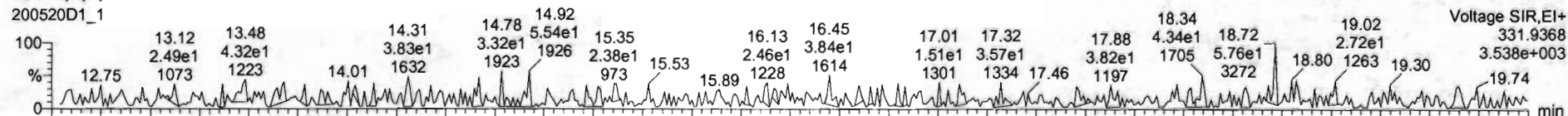


Dataset: U:\VG7.PRO\Results\200520D1\200520D1_1.qld

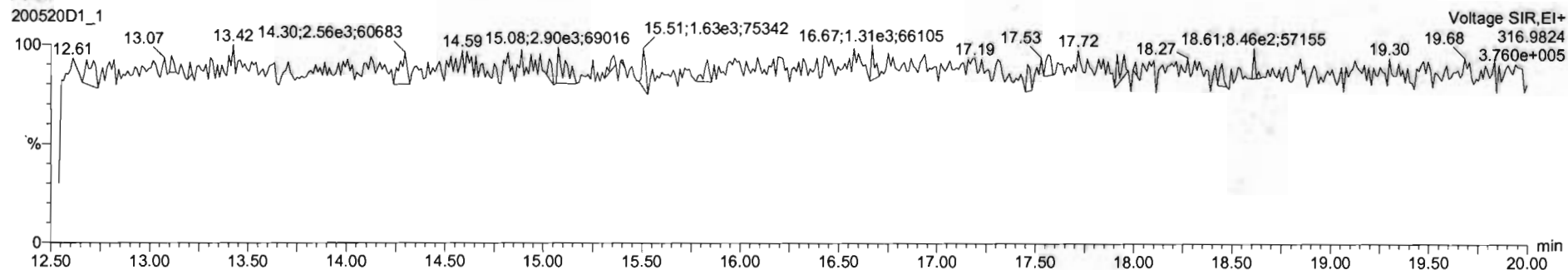
Last Altered: Wednesday, May 20, 2020 13:34:05 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:35:13 Pacific Daylight Time

Name: 200520D1_1, Date: 20-May-2020, Time: 12:34:41, ID: CP200520D1-1 DB-225 CPSM, Description: DB-225 CPSM

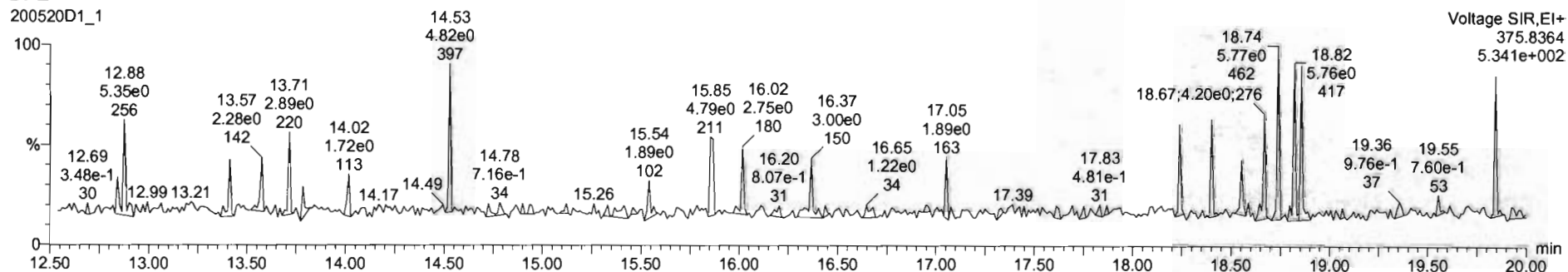
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200520D1\200520D1_2.qld

Last Altered: Wednesday, May 20, 2020 13:28:23 Pacific Daylight Time

Printed: Wednesday, May 20, 2020 13:31:23 Pacific Daylight Time

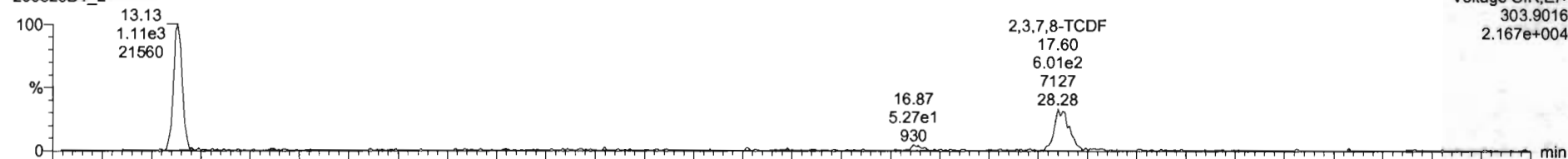
Method: C:\MassLynx\Default.pro\Methdb\tcdf.mdb 23 Mar 2020 11:10:19

Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvg7-2-11-20.cdb 12 Feb 2020 11:17:56

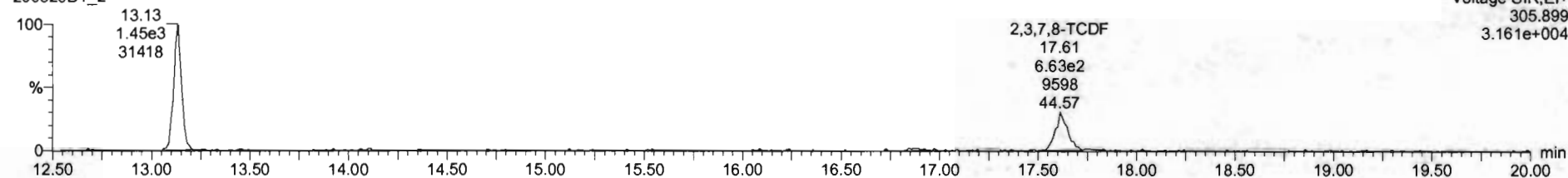
Name: 200520D1_2, Date: 20-May-2020, Time: 13:04:49, ID: ST200520D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200520D1_2

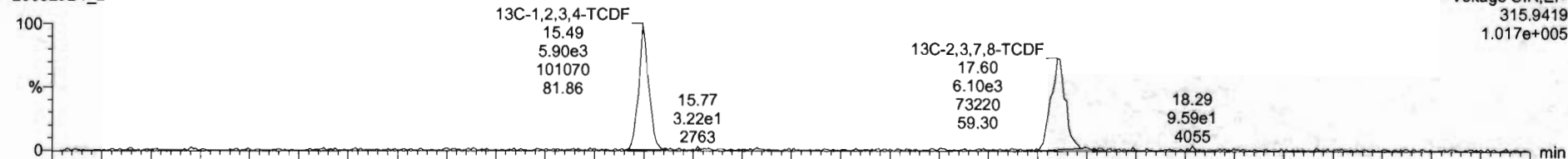


200520D1_2

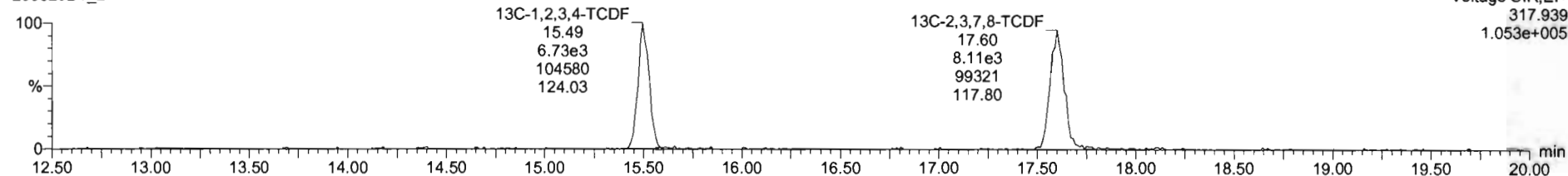


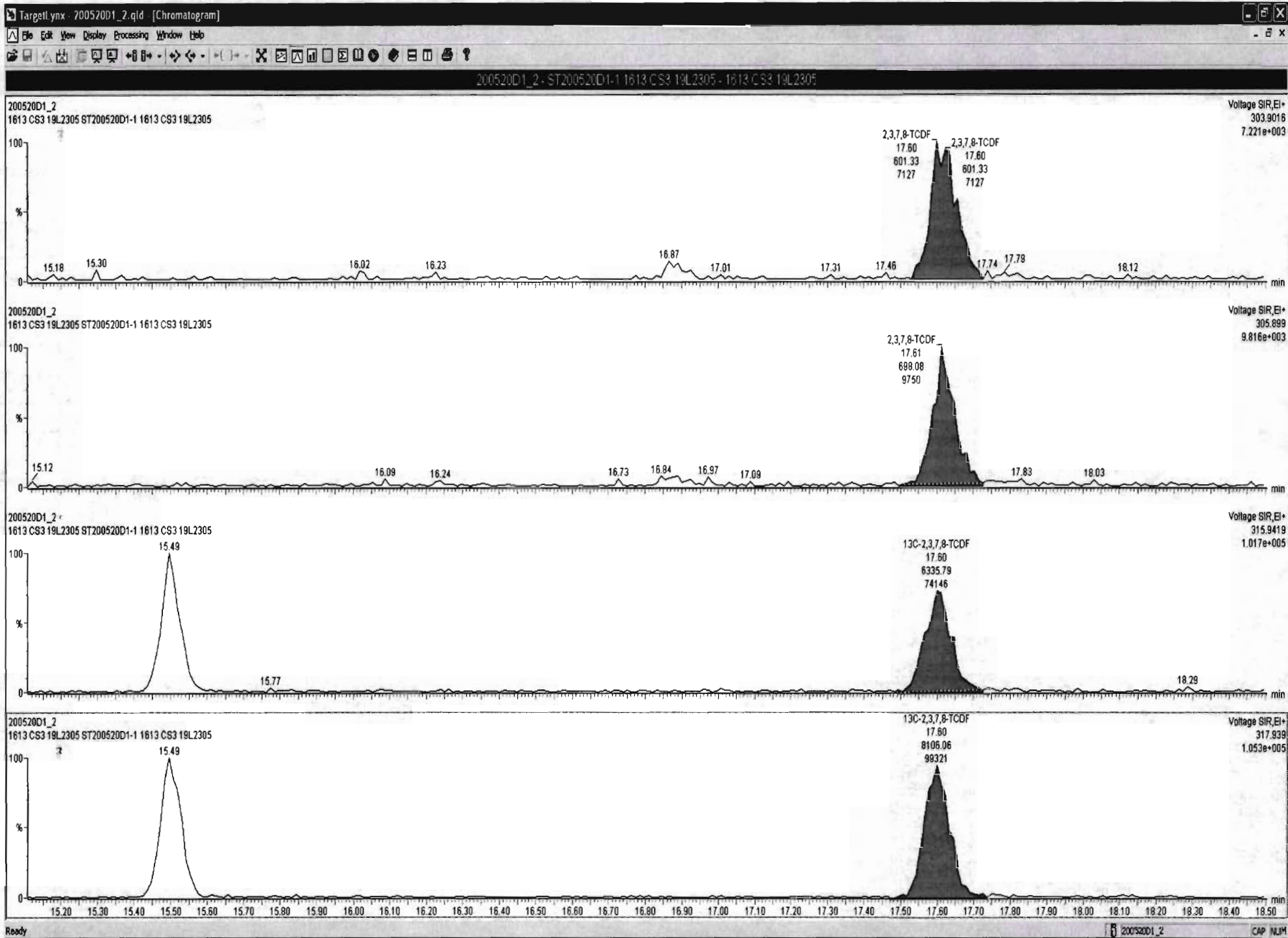
13C-2,3,7,8-TCDF

200520D1_2



200520D1_2





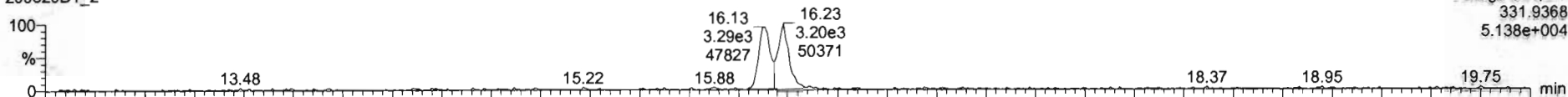
Dataset: U:\VG7.PRO\Results\200520D1\200520D1_2.qld

Last Altered: Wednesday, May 20, 2020 13:28:23 Pacific Daylight Time
Printed: Wednesday, May 20, 2020 13:31:23 Pacific Daylight Time

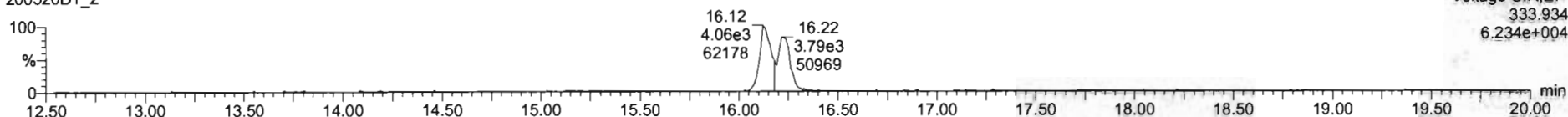
Name: 200520D1_2, Date: 20-May-2020, Time: 13:04:49, ID: ST200520D1-1 1613 CS3 19L2305, Description: 1613 CS3 19L2305

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

200520D1_2

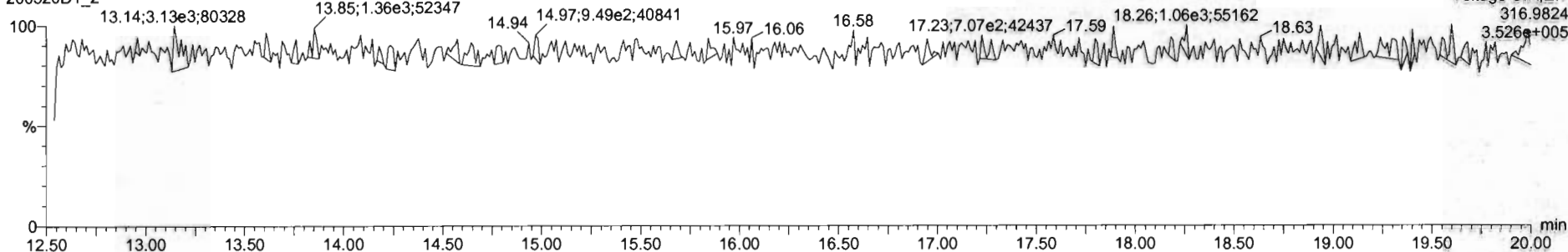


200520D1_2



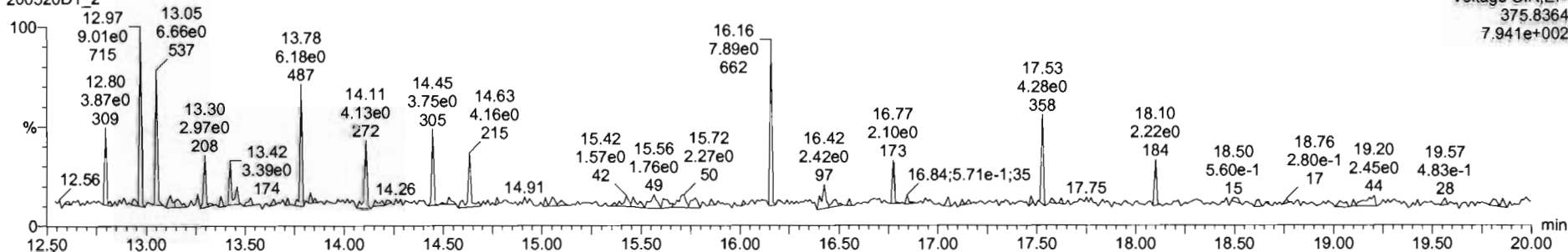
PFK1

200520D1_2



DPE1

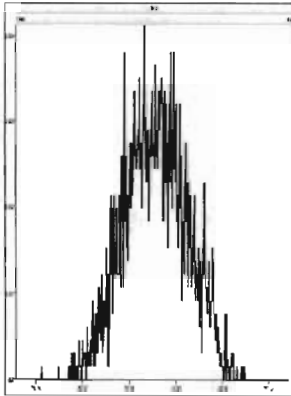
200520D1_2



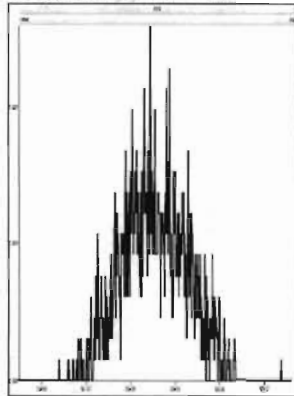
File: Experiment: tcdf_db225.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Thursday, May 21, 2020 09:18:23 Pacific Daylight Time

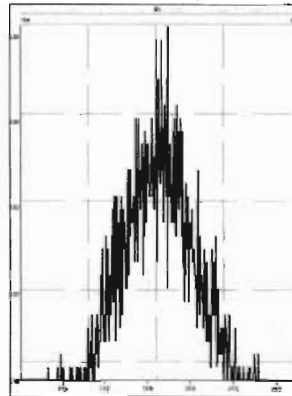
M 292.9824 R 9960



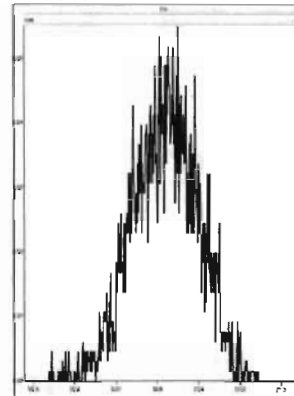
M 304.9824 R 11686



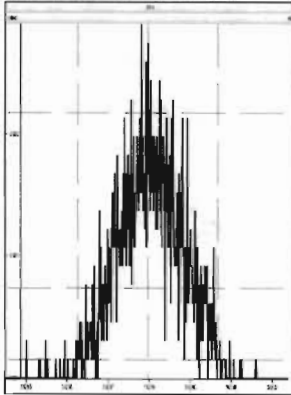
M 318.9792 R 10866



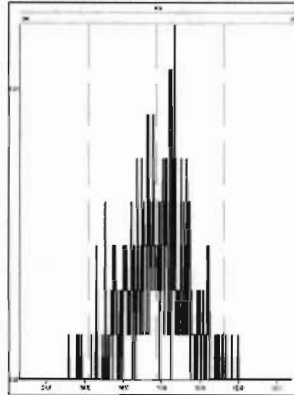
M 330.9792 R 9921



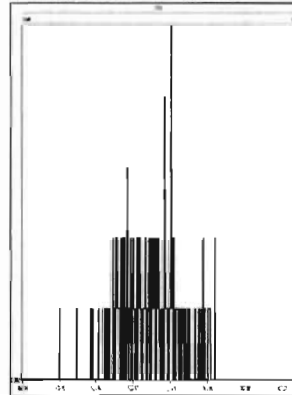
M 342.9792 R 11847



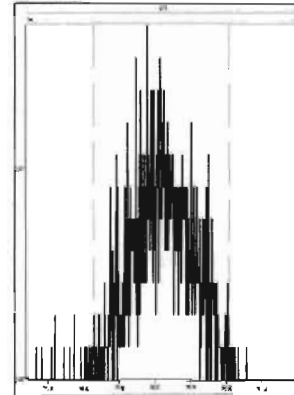
M 354.9792 R 14120



M 366.9792 R 38462



M 380.9760 R 12624



INITIAL CALIBRATION

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Compound name: 2,3,7,8-TCDD

Response Factor: 0.947465

RRF SD: 0.050672, Relative SD: 5.34817

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	200429R2_1	0.250	0.81	NO	26.07	1.002	3.67e3	1.71e6	0.227	-9.3	0.859	MM
2	200429R2_2	0.500	0.73	NO	26.05	1.001	6.88e3	1.49e6	0.486	-2.8	0.921	MM
3	200429R2_3	2.00	0.80	NO	26.05	1.001	2.77e4	1.43e6	2.04	2.1	0.968	MM
4	200429R2_4	10.0	0.76	NO	26.07	1.001	1.43e5	1.49e6	10.1	0.8	0.955	db
5	200429R2_5	40.0	0.79	NO	26.07	1.001	6.85e5	1.74e6	41.5	3.8	0.983	bb
6	200429R2_6	300	0.78	NO	26.05	1.001	6.08e6	2.03e6	316	5.4	0.998	bb

Compound name: 1,2,3,7,8-PeCDD

Response Factor: 0.942465

RRF SD: 0.0519271, Relative SD: 5.50971

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	200429R2_1	1.25	0.59	NO	31.13	1.000	1.26e4	1.18e6	1.13	-9.9	0.849	MM
2	200429R2_2	2.50	0.61	NO	31.14	1.000	2.41e4	1.02e6	2.49	-0.4	0.939	bb
3	200429R2_3	10.0	0.62	NO	31.13	1.000	9.99e4	9.92e5	10.7	6.8	1.01	bb
4	200429R2_4	50.0	0.62	NO	31.13	1.000	5.37e5	1.14e6	49.9	-0.2	0.941	bb
5	200429R2_5	200	0.63	NO	31.14	1.000	2.46e6	1.29e6	202	1.0	0.952	bb
6	200429R2_6	1500	0.63	NO	31.13	1.000	2.34e7	1.61e6	1540	2.6	0.967	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time
 Printed: Thursday, April 30, 2020 7:56:51 AM Pacific Daylight Time

Compound name: 1,2,3,4,7,8-HxCDD

Response Factor: 1.06409

RRF SD: 0.0704393, Relative SD: 6.61967

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	200429R2_1	1.25	1.23	NO	34.49	1.000	1.06e4	9.05e5	1.10	-12.2	0.934	bd
2	200429R2_2	2.50	1.24	NO	34.51	1.000	2.05e4	7.45e5	2.58	3.2	1.10	bd
3	200429R2_3	10.0	1.25	NO	34.49	1.000	8.24e4	7.52e5	10.3	3.1	1.10	bd
4	200429R2_4	50.0	1.22	NO	34.51	1.000	4.42e5	8.49e5	48.9	-2.2	1.04	MM
5	200429R2_5	200	1.23	NO	34.51	1.000	2.14e6	9.92e5	203	1.5	1.08	bd
6	200429R2_6	1500	1.23	NO	34.49	1.000	2.19e7	1.29e6	1600	6.6	1.13	bd

Compound name: 1,2,3,6,7,8-HxCDD

Response Factor: 0.914514

RRF SD: 0.0597197, Relative SD: 6.53021

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	200429R2_1	1.25	1.18	NO	34.60	1.000	1.19e4	1.16e6	1.12	-10.3	0.820	db
2	200429R2_2	2.50	1.19	NO	34.60	1.000	2.18e4	9.85e5	2.42	-3.1	0.886	db
3	200429R2_3	10.0	1.26	NO	34.60	1.000	9.42e4	9.49e5	10.8	8.4	0.992	db
4	200429R2_4	50.0	1.20	NO	34.60	1.000	4.89e5	1.08e6	49.6	-0.9	0.906	MM
5	200429R2_5	200	1.23	NO	34.61	1.000	2.38e6	1.24e6	210	5.0	0.960	db
6	200429R2_6	1500	1.24	NO	34.60	1.001	2.35e7	1.70e6	1510	0.9	0.922	db

Compound name: 1,2,3,7,8,9-HxCDD

Response Factor: 0.914931

RRF SD: 0.0698725, Relative SD: 7.63691

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	200429R2_1	1.25	1.17	NO	34.87	1.000	9.95e3	1.02e6	1.07	-14.6	0.782	MM
2	200429R2_2	2.50	1.21	NO	34.88	1.000	1.98e4	8.50e5	2.55	1.9	0.933	MM

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 7:56:51 AM 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	200429R2_3	10.0	1.24	NO	34.88	1.001	8.11e4	8.34e5	10.6	6.3	0.973	bb
4	200429R2_4	50.0	1.24	NO	34.88	1.000	4.19e5	9.34e5	49.1	-1.8	0.898	bb
5	200429R2_5	200	1.24	NO	34.89	1.001	2.07e6	1.09e6	208	4.2	0.953	bb
6	200429R2_6	1500	1.23	NO	34.87	1.000	2.08e7	1.46e6	1560	4.0	0.951	bb

Compound name: 1,2,3,4,6,7,8-HpCDD

Response Factor: 0.897908

RRF SD: 0.0622499, Relative SD: 6.93277

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	200429R2_1	1.25	1.08	NO	38.38	1.001	7.93e3	8.17e5	1.08	-13.5	0.777	bb
2	200429R2_2	2.50	1.01	NO	38.37	1.000	1.48e4	6.60e5	2.50	-0.2	0.896	MM
3	200429R2_3	10.0	1.08	NO	38.36	1.000	5.91e4	6.39e5	10.3	3.1	0.925	bd
4	200429R2_4	50.0	0.99	NO	38.38	1.000	3.08e5	6.79e5	50.5	1.0	0.907	bb
5	200429R2_5	200	1.02	NO	38.38	1.000	1.52e6	8.11e5	208	4.1	0.934	bb
6	200429R2_6	1500	1.02	NO	38.37	1.001	1.60e7	1.13e6	1580	5.6	0.948	bb

Compound name: OCDD

Response Factor: 0.93349

RRF SD: 0.0706604, Relative SD: 7.56949

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	200429R2_1	2.50	0.86	NO	41.35	1.000	1.41e4	1.42e6	2.13	-14.8	0.796	MM
2	200429R2_2	5.00	0.91	NO	41.35	1.000	2.79e4	1.21e6	4.96	-0.8	0.926	bd
3	200429R2_3	20.0	0.88	NO	41.34	1.000	1.08e5	1.10e6	21.2	5.8	0.988	MM
4	200429R2_4	100	0.88	NO	41.35	1.000	5.63e5	1.18e6	102	2.5	0.957	MM
5	200429R2_5	400	0.90	NO	41.35	1.000	2.87e6	1.50e6	411	2.7	0.959	MM
6	200429R2_6	3000	0.89	NO	41.34	1.000	3.39e7	2.31e6	3140	4.6	0.976	MM

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Compound name: 2,3,7,8-TCDF

Response Factor: 0.787102

RRF SD: 0.0402419, Relative SD: 5.11266

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	200429R2_1	0.250	0.82	NO	25.09	1.001	4.51e3	2.52e6	0.228	-8.9	0.717	MM
2	200429R2_2	0.500	0.75	NO	25.11	1.001	8.73e3	2.22e6	0.501	0.1	0.788	MM
3	200429R2_3	2.00	0.74	NO	25.11	1.001	3.42e4	2.09e6	2.08	4.1	0.820	bb
4	200429R2_4	10.0	0.74	NO	25.11	1.001	1.65e5	2.15e6	9.76	-2.4	0.768	bb
5	200429R2_5	40.0	0.75	NO	25.12	1.001	8.12e5	2.52e6	41.0	2.4	0.806	bb
6	200429R2_6	300	0.75	NO	25.09	1.001	7.19e6	2.91e6	314	4.7	0.824	bb

Compound name: 1,2,3,7,8-PeCDF

Response Factor: 0.910199

RRF SD: 0.0533229, Relative SD: 5.85838

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	200429R2_1	1.25	1.63	NO	29.81	1.000	1.97e4	1.94e6	1.12	-10.8	0.812	MM
2	200429R2_2	2.50	1.54	NO	29.83	1.000	3.85e4	1.69e6	2.50	0.1	0.911	MM
3	200429R2_3	10.0	1.57	NO	29.81	1.000	1.60e5	1.64e6	10.7	7.0	0.974	bb
4	200429R2_4	50.0	1.59	NO	29.81	1.000	8.46e5	1.86e6	50.0	0.0	0.910	bb
5	200429R2_5	200	1.55	NO	29.83	1.000	3.84e6	2.07e6	203	1.7	0.926	bb
6	200429R2_6	1500	1.56	NO	29.81	1.000	3.59e7	2.58e6	1530	1.9	0.928	bb

Compound name: 2,3,4,7,8-PeCDF

Response Factor: 0.96636

RRF SD: 0.0480881, Relative SD: 4.97621

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	200429R2_1	1.25	1.49	NO	30.80	1.000	2.03e4	1.84e6	1.14	-8.8	0.881	MM
2	200429R2_2	2.50	1.53	NO	30.82	1.000	3.90e4	1.62e6	2.50	-0.1	0.966	MM

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Compound name: 2,3,4,7,8-PeCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	1.60	NO	30.80	1.000	1.61e5	1.57e6	10.6	6.4	1.03	bb
4	200429R2_4	50.0	1.56	NO	30.80	1.000	8.75e5	1.82e6	49.8	-0.4	0.962	bb
5	200429R2_5	200	1.55	NO	30.82	1.000	3.97e6	2.01e6	204	2.1	0.987	bb
6	200429R2_6	1500	1.54	NO	30.81	1.000	3.66e7	2.51e6	1510	0.7	0.973	bb

Compound name: 1,2,3,4,7,8-HxCDF

Response Factor: 0.878238

RRF SD: 0.066642, Relative SD: 7.58815

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	200429R2_1	1.25	1.13	NO	33.64	1.001	1.14e4	1.22e6	1.06	-14.9	0.748	bd
2	200429R2_2	2.50	1.21	NO	33.64	1.000	2.26e4	1.02e6	2.52	0.9	0.886	bd
3	200429R2_3	10.0	1.22	NO	33.63	1.000	9.51e4	1.02e6	10.6	6.4	0.935	bd
4	200429R2_4	50.0	1.22	NO	33.64	1.000	5.03e5	1.13e6	50.6	1.1	0.888	bd
5	200429R2_5	200	1.19	NO	33.64	1.000	2.34e6	1.31e6	204	2.1	0.896	bd
6	200429R2_6	1500	1.19	NO	33.63	1.000	2.35e7	1.71e6	1570	4.4	0.917	bd

Compound name: 1,2,3,6,7,8-HxCDF

Response Factor: 0.873971

RRF SD: 0.0632141, Relative SD: 7.23298

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	200429R2_1	1.25	1.23	NO	33.76	1.001	1.35e4	1.41e6	1.09	-12.6	0.763	MM
2	200429R2_2	2.50	1.19	NO	33.76	1.000	2.55e4	1.18e6	2.46	-1.4	0.861	db
3	200429R2_3	10.0	1.20	NO	33.76	1.001	1.09e5	1.14e6	11.0	9.5	0.957	dd
4	200429R2_4	50.0	1.17	NO	33.76	1.000	5.58e5	1.26e6	50.6	1.2	0.885	db
5	200429R2_5	200	1.19	NO	33.77	1.001	2.62e6	1.46e6	205	2.7	0.897	db
6	200429R2_6	1500	1.19	NO	33.75	1.000	2.52e7	1.91e6	1510	0.7	0.880	db

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Compound name: 2,3,4,6,7,8-HxCDF

Response Factor: 0.921711

RRF SD: 0.0708547, Relative SD: 7.6873

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	200429R2_1	1.25	1.14	NO	34.32	1.000	1.24e4	1.26e6	1.07	-14.7	0.786	bb
2	200429R2_2	2.50	1.16	NO	34.33	1.001	2.38e4	1.05e6	2.46	-1.5	0.908	MM
3	200429R2_3	10.0	1.22	NO	34.32	1.000	1.02e5	1.03e6	10.7	7.1	0.987	bb
4	200429R2_4	50.0	1.17	NO	34.33	1.000	5.42e5	1.14e6	51.6	3.2	0.951	bb
5	200429R2_5	200	1.19	NO	34.33	1.000	2.49e6	1.31e6	206	3.0	0.950	bb
6	200429R2_6	1500	1.19	NO	34.33	1.000	2.48e7	1.74e6	1540	2.9	0.948	bb

Compound name: 1,2,3,7,8,9-HxCDF

Response Factor: 0.864187

RRF SD: 0.0516808, Relative SD: 5.98028

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	200429R2_1	1.25	1.22	NO	35.21	1.000	9.52e3	9.91e5	1.11	-11.0	0.769	MM
2	200429R2_2	2.50	1.21	NO	35.21	1.000	1.86e4	8.77e5	2.45	-1.8	0.848	MM
3	200429R2_3	10.0	1.22	NO	35.21	1.000	7.78e4	8.59e5	10.5	4.9	0.906	bb
4	200429R2_4	50.0	1.17	NO	35.22	1.000	4.02e5	9.29e5	50.1	0.2	0.866	bb
5	200429R2_5	200	1.19	NO	35.22	1.000	1.99e6	1.11e6	207	3.7	0.896	bb
6	200429R2_6	1500	1.20	NO	35.21	1.000	1.98e7	1.47e6	1560	4.0	0.899	bb

Compound name: 1,2,3,4,6,7,8-HpCDF

Response Factor: 0.871204

RRF SD: 0.0656544, Relative SD: 7.53606

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	200429R2_1	1.25	0.99	NO	36.94	1.000	8.60e3	9.24e5	1.07	-14.5	0.745	MM
2	200429R2_2	2.50	1.00	NO	36.97	1.001	1.73e4	7.84e5	2.54	1.5	0.884	MM

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Compound name: 1,2,3,4,6,7,8-HpCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	10.0	0.95	NO	36.96	1.000	6.95e4	7.69e5	10.4	3.7	0.903	MM
4	200429R2_4	50.0	0.96	NO	36.97	1.000	3.72e5	8.65e5	49.4	-1.2	0.861	bb
5	200429R2_5	200	0.99	NO	36.97	1.000	1.79e6	9.81e5	210	5.0	0.914	bb
6	200429R2_6	1500	0.99	NO	36.96	1.001	1.89e7	1.37e6	1580	5.5	0.919	bb

Compound name: 1,2,3,4,7,8,9-HpCDF

Response Factor: 1.01156

RRF SD: 0.0670054, Relative SD: 6.62397

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	200429R2_1	1.25	0.97	NO	38.95	1.000	6.68e3	5.96e5	1.11	-11.4	0.897	MM
2	200429R2_2	2.50	0.96	NO	38.95	1.000	1.20e4	4.92e5	2.41	-3.7	0.974	MM
3	200429R2_3	10.0	1.01	NO	38.95	1.000	4.94e4	4.72e5	10.4	3.5	1.05	MM
4	200429R2_4	50.0	1.00	NO	38.96	1.000	2.60e5	5.12e5	50.2	0.3	1.01	bb
5	200429R2_5	200	0.99	NO	38.96	1.000	1.29e6	6.09e5	209	4.7	1.06	bb
6	200429R2_6	1500	0.99	NO	38.94	1.000	1.43e7	8.85e5	1600	6.5	1.08	bb

Compound name: OCDF

Response Factor: 0.802147

RRF SD: 0.0574516, Relative SD: 7.16223

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	200429R2_1	2.50	0.84	NO	41.52	1.000	1.41e4	1.62e6	2.17	-13.4	0.695	MM
2	200429R2_2	5.00	0.85	NO	41.52	1.000	2.74e4	1.40e6	4.88	-2.4	0.783	MM
3	200429R2_3	20.0	0.88	NO	41.52	1.000	1.07e5	1.27e6	21.0	5.0	0.842	bb
4	200429R2_4	100	0.86	NO	41.53	1.000	5.36e5	1.32e6	101	1.3	0.813	bb
5	200429R2_5	400	0.87	NO	41.53	1.000	2.84e6	1.69e6	420	5.0	0.842	bb
6	200429R2_6	3000	0.87	NO	41.52	1.000	3.30e7	2.63e6	3130	4.4	0.838	bb

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Compound name: 13C-2,3,7,8-TCDD

Response Factor: 1.15948

RRF SD: 0.103741, Relative SD: 8.94721

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	200429R2_1	100	0.79	NO	26.02	1.027	1.71e6	1.32e6	112	11.9	1.30	bb
2	200429R2_2	100	0.79	NO	26.03	1.027	1.49e6	1.44e6	89.7	-10.3	1.04	bb
3	200429R2_3	100	0.80	NO	26.02	1.026	1.43e6	1.38e6	89.4	-10.6	1.04	bb
4	200429R2_4	100	0.80	NO	26.03	1.027	1.49e6	1.28e6	100	0.3	1.16	bb
5	200429R2_5	100	0.79	NO	26.03	1.027	1.74e6	1.45e6	103	3.3	1.20	MM
6	200429R2_6	100	0.79	NO	26.02	1.027	2.03e6	1.66e6	105	5.4	1.22	bb

Compound name: 13C-1,2,3,7,8-PeCDD

Response Factor: 0.847234

RRF SD: 0.105802, Relative SD: 12.488

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	200429R2_1	100	0.64	NO	31.11	1.227	1.18e6	1.32e6	106	6.2	0.900	bb
2	200429R2_2	100	0.65	NO	31.13	1.227	1.02e6	1.44e6	84.2	-15.8	0.713	bb
3	200429R2_3	100	0.64	NO	31.11	1.227	9.92e5	1.38e6	84.9	-15.1	0.719	bb
4	200429R2_4	100	0.65	NO	31.11	1.227	1.14e6	1.28e6	105	5.0	0.889	bb
5	200429R2_5	100	0.63	NO	31.13	1.227	1.29e6	1.45e6	105	5.1	0.890	bb
6	200429R2_6	100	0.64	NO	31.11	1.227	1.61e6	1.66e6	115	14.6	0.971	bb

Compound name: 13C-1,2,3,4,7,8-HxCDD

Response Factor: 0.749916

RRF SD: 0.0958664, Relative SD: 12.7836

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	200429R2_1	100	1.27	NO	34.48	1.014	9.05e5	1.10e6	109	9.5	0.821	bd
2	200429R2_2	100	1.30	NO	34.49	1.014	7.45e5	1.19e6	83.5	-16.5	0.626	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	200429R2_3	100	1.29	NO	34.48	1.014	7.52e5	1.15e6	87.1	-12.9	0.653	bd
4	200429R2_4	100	1.29	NO	34.49	1.014	8.49e5	1.15e6	98.6	-1.4	0.739	bd
5	200429R2_5	100	1.28	NO	34.49	1.014	9.92e5	1.26e6	105	5.3	0.790	bd
6	200429R2_6	100	1.27	NO	34.48	1.014	1.29e6	1.48e6	116	16.0	0.870	bd

Compound name: 13C-1,2,3,6,7,8-HxCDD

Response Factor: 0.963047

RRF SD: 0.127006, Relative SD: 13.1879

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	200429R2_1	100	1.28	NO	34.59	1.017	1.16e6	1.10e6	109	9.3	1.05	db
2	200429R2_2	100	1.29	NO	34.59	1.017	9.85e5	1.19e6	85.9	-14.1	0.827	db
3	200429R2_3	100	1.29	NO	34.59	1.017	9.49e5	1.15e6	85.7	-14.3	0.825	db
4	200429R2_4	100	1.26	NO	34.59	1.017	1.08e6	1.15e6	97.7	-2.3	0.941	db
5	200429R2_5	100	1.27	NO	34.60	1.017	1.24e6	1.26e6	102	2.2	0.985	db
6	200429R2_6	100	1.26	NO	34.58	1.017	1.70e6	1.48e6	119	19.2	1.15	db

Compound name: 13C-1,2,3,7,8,9-HxCDD

Response Factor: 0.83755

RRF SD: 0.108482, Relative SD: 12.9523

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	200429R2_1	100	1.31	NO	34.86	1.025	1.02e6	1.10e6	110	10.2	0.923	bd
2	200429R2_2	100	1.28	NO	34.87	1.025	8.50e5	1.19e6	85.2	-14.8	0.713	bb
3	200429R2_3	100	1.25	NO	34.86	1.025	8.34e5	1.15e6	86.5	-13.5	0.724	bb
4	200429R2_4	100	1.25	NO	34.87	1.025	9.34e5	1.15e6	97.2	-2.8	0.814	bb
5	200429R2_5	100	1.25	NO	34.87	1.025	1.09e6	1.26e6	103	3.2	0.864	bb
6	200429R2_6	100	1.25	NO	34.86	1.025	1.46e6	1.48e6	118	17.7	0.986	bb

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

Response Factor: 0.641477

RRF SD: 0.0915679, Relative SD: 14.2745

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	200429R2_1	100	1.06	NO	38.35	1.128	8.17e5	1.10e6	116	15.5	0.741	bd
2	200429R2_2	100	1.06	NO	38.36	1.128	6.60e5	1.19e6	86.4	-13.6	0.554	MM
3	200429R2_3	100	1.02	NO	38.36	1.128	6.39e5	1.15e6	86.5	-13.5	0.555	bb
4	200429R2_4	100	1.09	NO	38.37	1.128	6.79e5	1.15e6	92.2	-7.8	0.592	MM
5	200429R2_5	100	1.02	NO	38.37	1.128	8.11e5	1.26e6	101	0.6	0.646	bb
6	200429R2_6	100	1.05	NO	38.35	1.128	1.13e6	1.48e6	119	18.7	0.761	bb

Compound name: 13C-OCDD

Response Factor: 0.586321

RRF SD: 0.114579, Relative SD: 19.5421

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	200429R2_1	200	0.89	NO	41.34	1.216	1.42e6	1.10e6	220	9.8	0.644	MM
2	200429R2_2	200	0.90	NO	41.34	1.215	1.21e6	1.19e6	173	-13.7	0.506	MM
3	200429R2_3	200	0.93	NO	41.33	1.215	1.10e6	1.15e6	162	-18.8	0.476	MM
4	200429R2_4	200	0.93	NO	41.34	1.215	1.18e6	1.15e6	175	-12.5	0.513	MM
5	200429R2_5	200	0.90	NO	41.34	1.215	1.50e6	1.26e6	203	1.7	0.597	MM
6	200429R2_6	200	0.90	NO	41.33	1.215	2.31e6	1.48e6	267	33.4	0.782	MM

Compound name: 13C-2,3,7,8-TCDF

Response Factor: 1.03447

RRF SD: 0.0994265, Relative SD: 9.61138

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	200429R2_1	100	0.78	NO	25.08	0.989	2.52e6	2.12e6	115	14.8	1.19	bb
2	200429R2_2	100	0.78	NO	25.09	0.989	2.22e6	2.37e6	90.3	-9.7	0.934	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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Compound name: 13C-2,3,7,8-TCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.78	NO	25.08	0.989	2.09e6	2.27e6	89.0	-11.0	0.920	bb
4	200429R2_4	100	0.77	NO	25.09	0.989	2.15e6	2.10e6	99.1	-0.9	1.03	bb
5	200429R2_5	100	0.79	NO	25.09	0.989	2.52e6	2.38e6	102	2.1	1.06	bb
6	200429R2_6	100	0.77	NO	25.08	0.989	2.91e6	2.69e6	105	4.7	1.08	bb

Compound name: 13C-1,2,3,7,8-PeCDF

Response Factor: 0.84507

RRF SD: 0.102566, Relative SD: 12.137

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	200429R2_1	100	1.60	NO	29.80	1.176	1.94e6	2.12e6	108	8.3	0.915	bb
2	200429R2_2	100	1.62	NO	29.81	1.176	1.69e6	2.37e6	84.4	-15.6	0.713	bb
3	200429R2_3	100	1.61	NO	29.80	1.175	1.64e6	2.27e6	85.7	-14.3	0.724	bb
4	200429R2_4	100	1.63	NO	29.80	1.175	1.86e6	2.10e6	105	4.9	0.886	bb
5	200429R2_5	100	1.58	NO	29.81	1.176	2.07e6	2.38e6	103	3.0	0.871	bb
6	200429R2_6	100	1.59	NO	29.80	1.176	2.58e6	2.69e6	114	13.7	0.960	bb

Compound name: 13C-2,3,4,7,8-PeCDF

Response Factor: 0.814071

RRF SD: 0.103739, Relative SD: 12.7432

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	200429R2_1	100	1.58	NO	30.79	1.215	1.84e6	2.12e6	107	6.7	0.869	bb
2	200429R2_2	100	1.59	NO	30.80	1.215	1.62e6	2.37e6	83.6	-16.4	0.681	db
3	200429R2_3	100	1.58	NO	30.79	1.214	1.57e6	2.27e6	84.8	-15.2	0.691	db
4	200429R2_4	100	1.60	NO	30.79	1.214	1.82e6	2.10e6	107	6.5	0.867	db
5	200429R2_5	100	1.60	NO	30.80	1.215	2.01e6	2.38e6	104	3.7	0.844	db
6	200429R2_6	100	1.58	NO	30.79	1.215	2.51e6	2.69e6	115	14.6	0.933	db

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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Compound name: 13C-1,2,3,4,7,8-HxCDF

Response Factor: 1.00488

RRF SD: 0.118528, Relative SD: 11.7952

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	200429R2_1	100	0.50	NO	33.62	0.989	1.22e6	1.10e6	110	10.1	1.11	bd
2	200429R2_2	100	0.51	NO	33.63	0.989	1.02e6	1.19e6	85.4	-14.6	0.858	bd
3	200429R2_3	100	0.51	NO	33.62	0.988	1.02e6	1.15e6	88.0	-12.0	0.884	bd
4	200429R2_4	100	0.51	NO	33.63	0.989	1.13e6	1.15e6	98.3	-1.7	0.987	bd
5	200429R2_5	100	0.51	NO	33.63	0.988	1.31e6	1.26e6	103	3.5	1.04	bd
6	200429R2_6	100	0.51	NO	33.62	0.989	1.71e6	1.48e6	115	14.9	1.15	bd

Compound name: 13C-1,2,3,6,7,8-HxCDF

Response Factor: 1.13681

RRF SD: 0.13421, Relative SD: 11.8059

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	200429R2_1	100	0.51	NO	33.74	0.992	1.41e6	1.10e6	113	12.9	1.28	db
2	200429R2_2	100	0.52	NO	33.75	0.992	1.18e6	1.19e6	87.4	-12.6	0.994	db
3	200429R2_3	100	0.51	NO	33.74	0.992	1.14e6	1.15e6	87.0	-13.0	0.990	db
4	200429R2_4	100	0.51	NO	33.75	0.992	1.26e6	1.15e6	96.7	-3.3	1.10	db
5	200429R2_5	100	0.51	NO	33.75	0.992	1.46e6	1.26e6	102	2.3	1.16	db
6	200429R2_6	100	0.51	NO	33.74	0.992	1.91e6	1.48e6	114	13.7	1.29	db

Compound name: 13C-2,3,4,6,7,8-HxCDF

Response Factor: 1.02233

RRF SD: 0.123256, Relative SD: 12.0564

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	200429R2_1	100	0.52	NO	34.31	1.009	1.26e6	1.10e6	112	11.8	1.14	MM
2	200429R2_2	100	0.51	NO	34.31	1.009	1.05e6	1.19e6	86.2	-13.8	0.881	bb

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Compound name: 13C-2,3,4,6,7,8-HxCDF

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	100	0.52	NO	34.31	1.009	1.03e6	1.15e6	87.6	-12.4	0.895	bb
4	200429R2_4	100	0.51	NO	34.33	1.009	1.14e6	1.15e6	97.2	-2.8	0.993	bb
5	200429R2_5	100	0.51	NO	34.33	1.009	1.31e6	1.26e6	102	2.1	1.04	bb
6	200429R2_6	100	0.51	NO	34.31	1.009	1.74e6	1.48e6	115	15.2	1.18	bb

Compound name: 13C-1,2,3,7,8,9-HxCDF

Response Factor: 0.844773

RRF SD: 0.0991685, Relative SD: 11.7391

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	200429R2_1	100	0.51	NO	35.20	1.035	9.91e5	1.10e6	106	6.4	0.899	bb
2	200429R2_2	100	0.51	NO	35.20	1.035	8.77e5	1.19e6	87.2	-12.8	0.737	bb
3	200429R2_3	100	0.50	NO	35.20	1.035	8.59e5	1.15e6	88.3	-11.7	0.746	bb
4	200429R2_4	100	0.51	NO	35.21	1.035	9.29e5	1.15e6	95.9	-4.1	0.810	MM
5	200429R2_5	100	0.51	NO	35.21	1.035	1.11e6	1.26e6	105	4.6	0.883	bb
6	200429R2_6	100	0.52	NO	35.20	1.035	1.47e6	1.48e6	118	17.6	0.994	bb

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

Response Factor: 0.771212

RRF SD: 0.102676, Relative SD: 13.3136

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	200429R2_1	100	0.43	NO	36.93	1.086	9.24e5	1.10e6	109	8.6	0.838	bb
2	200429R2_2	100	0.43	NO	36.94	1.086	7.84e5	1.19e6	85.4	-14.6	0.659	bb
3	200429R2_3	100	0.44	NO	36.94	1.086	7.69e5	1.15e6	86.7	-13.3	0.668	bd
4	200429R2_4	100	0.43	NO	36.96	1.086	8.65e5	1.15e6	97.7	-2.3	0.754	bd
5	200429R2_5	100	0.42	NO	36.96	1.086	9.81e5	1.26e6	101	1.2	0.781	bb
6	200429R2_6	100	0.44	NO	36.93	1.086	1.37e6	1.48e6	120	20.3	0.928	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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Compound name: 13C-1,2,3,4,7,8,9-HpCDF

Response Factor: 0.482289

RRF SD: 0.0750769, Relative SD: 15.5668

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	200429R2_1	100	0.41	NO	38.94	1.145	5.96e5	1.10e6	112	12.1	0.541	bb
2	200429R2_2	100	0.44	NO	38.94	1.145	4.92e5	1.19e6	85.7	-14.3	0.413	MM
3	200429R2_3	100	0.45	NO	38.94	1.145	4.72e5	1.15e6	85.0	-15.0	0.410	MM
4	200429R2_4	100	0.44	NO	38.95	1.145	5.12e5	1.15e6	92.5	-7.5	0.446	MM
5	200429R2_5	100	0.43	NO	38.95	1.145	6.09e5	1.26e6	101	0.6	0.485	bb
6	200429R2_6	100	0.43	NO	38.93	1.145	8.85e5	1.48e6	124	24.1	0.598	bb

Compound name: 13C-OCDF

Response Factor: 0.668505

RRF SD: 0.127842, Relative SD: 19.1235

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	200429R2_1	200	0.88	NO	41.51	1.221	1.62e6	1.10e6	220	9.9	0.735	bb
2	200429R2_2	200	0.86	NO	41.51	1.220	1.40e6	1.19e6	176	-12.0	0.588	MM
3	200429R2_3	200	0.89	NO	41.51	1.220	1.27e6	1.15e6	165	-17.4	0.552	bd
4	200429R2_4	200	0.88	NO	41.52	1.221	1.32e6	1.15e6	172	-14.0	0.575	bb
5	200429R2_5	200	0.87	NO	41.52	1.220	1.69e6	1.26e6	201	0.5	0.672	bb
6	200429R2_6	200	0.88	NO	41.51	1.221	2.63e6	1.48e6	266	33.0	0.889	bb

Compound name: 37Cl-2,3,7,8-TCDD

Response Factor: 1.09842

RRF SD: 0.0959308, Relative SD: 8.73354

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	200429R2_1	0.250			26.05	1.028	3.33e3	1.32e6	0.230	-7.9	1.01	bb
2	200429R2_2	0.500			26.07	1.028	7.64e3	1.44e6	0.484	-3.2	1.06	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

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Compound name: 37CI-2,3,7,8-TCDD

	Name	Std. Conc	RA	n/y	RT	RRT	Resp	IS Resp	Conc.	%Dev	RRF	X = dropped
3	200429R2_3	2.00			26.05	1.027	2.74e4	1.38e6	1.81	-9.5	0.994	bd
4	200429R2_4	10.0			26.05	1.027	1.41e5	1.28e6	10.0	0.4	1.10	bb
5	200429R2_5	40.0			26.07	1.028	6.87e5	1.45e6	43.0	7.5	1.18	bb
6	200429R2_6	200			26.05	1.028	4.11e6	1.66e6	225	12.7	1.24	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	200429R2_1	100	0.80	NO	25.35	1.000	1.32e6	1.32e6	100	0.0	1.00	bb
2	200429R2_2	100	0.80	NO	25.36	1.000	1.44e6	1.44e6	100	0.0	1.00	bb
3	200429R2_3	100	0.81	NO	25.36	1.000	1.38e6	1.38e6	100	0.0	1.00	bb
4	200429R2_4	100	0.80	NO	25.36	1.000	1.28e6	1.28e6	100	0.0	1.00	bb
5	200429R2_5	100	0.81	NO	25.36	1.000	1.45e6	1.45e6	100	0.0	1.00	bb
6	200429R2_6	100	0.80	NO	25.35	1.000	1.66e6	1.66e6	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	200429R2_1	100	0.79	NO	23.57	1.000	2.12e6	2.12e6	100	0.0	1.00	bb
2	200429R2_2	100	0.79	NO	23.58	1.000	2.37e6	2.37e6	100	0.0	1.00	bb
3	200429R2_3	100	0.79	NO	23.58	1.000	2.27e6	2.27e6	100	0.0	1.00	bb
4	200429R2_4	100	0.79	NO	23.59	1.000	2.10e6	2.10e6	100	0.0	1.00	bb
5	200429R2_5	100	0.79	NO	23.59	1.000	2.38e6	2.38e6	100	0.0	1.00	bb
6	200429R2_6	100	0.79	NO	23.57	1.000	2.69e6	2.69e6	100	0.0	1.00	bb

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-CRV.qld

Last Altered: Thursday, April 30, 2020 7:35:23 AM 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	200429R2_1	100	0.51	NO	34.01	1.000	1.10e6	1.10e6	100	0.0	1.00	bb
2	200429R2_2	100	0.50	NO	34.01	1.000	1.19e6	1.19e6	100	0.0	1.00	bb
3	200429R2_3	100	0.51	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
4	200429R2_4	100	0.50	NO	34.01	1.000	1.15e6	1.15e6	100	0.0	1.00	bb
5	200429R2_5	100	0.51	NO	34.03	1.000	1.26e6	1.26e6	100	0.0	1.00	bb
6	200429R2_6	100	0.51	NO	34.01	1.000	1.48e6	1.48e6	100	0.0	1.00	bb

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time

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Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44

Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

#	Name	RT
1	1 1,3,6,8-TCDD (First)	21.90
2	2 1,2,8,9-TCDD (Last)	27.05
3	3 1,2,4,7,9-PeCDD (First)	28.88
4	4 1,2,3,8,9-PeCDD (Last)	31.52
5	5 1,2,4,6,7,9-HxCDD (First)	33.04
6	6 1,2,3,7,8,9-HxCDD (Last)	34.88
7	7 1,2,3,4,6,7,9-HpCDD (First)	37.35
8	8 1,2,3,4,6,7,8-HpCDD (Last)	38.38
9	9 1,3,6,8-TCDF (First)	19.85
10	10 1,2,8,9-TCDF (Last)	27.19
11	11 1,3,4,6,8-PeCDF (First)	27.17
12	12 1,2,3,8,9-PeCDF (Last)	31.75
13	13 1,2,3,4,6,8-HxCDF (First)	32.47
14	14 1,2,3,7,8,9-HxCDF (Last)	35.22
15	15 1,2,3,4,6,7,8-HpCDF (First)	36.97
16	16 1,2,3,4,7,8,9-HpCDF (Last)	38.96

Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:02 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 8:40:20 AM Pacific Daylight Time

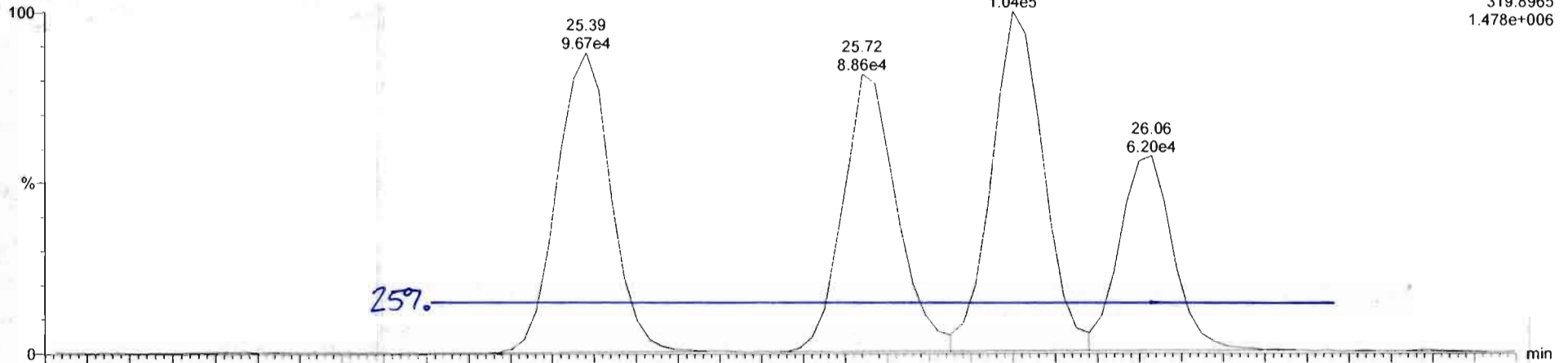
GPB 04/30/2020

Method: U:\VG12.PRO\MethDB\CPSM.mdb 08 Apr 2020 10:53:44
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

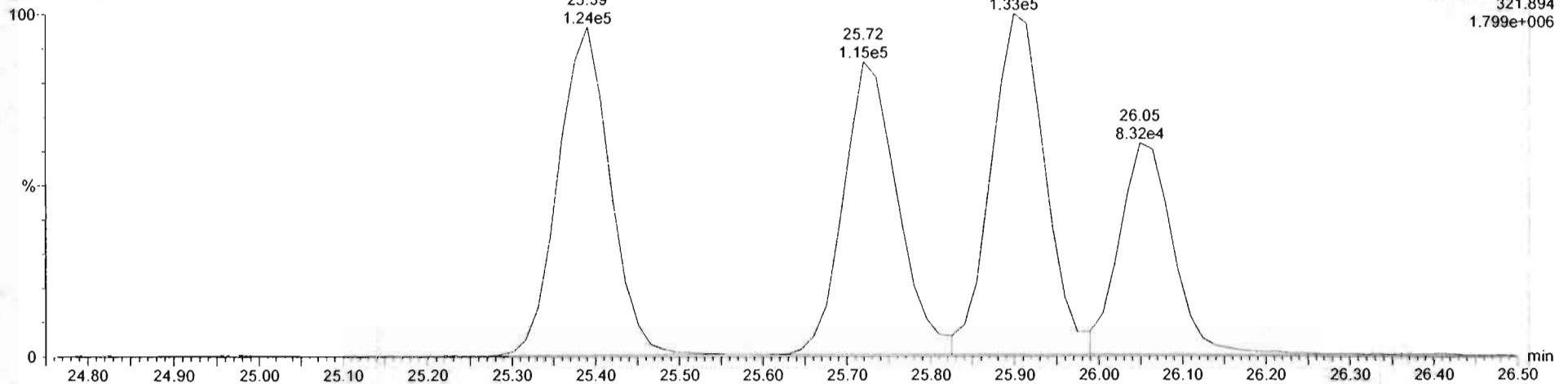
1,3,6,8-TCDD (First)
200429R2_4

F1:Voltage SIR,EI+
319.8965
1.478e+006



200429R2_4

F1:Voltage SIR,EI+
321.894
1.799e+006



Dataset: Untitled

Last Altered: Thursday, April 30, 2020 8:40:43 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 8:41:41 AM Pacific Daylight Time

Method: U:\VG12.PROMethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

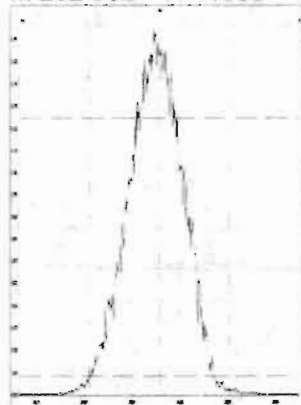
Compound name: 2,3,7,8-TCDD

	Name	ID	Acq.Date	Acq.Time
1	200429R2_1	ST200429R2_1 1613 CS0 19L2302	29-Apr-20	13:27:25
2	200429R2_2	ST200429R2_2 1613 CS1 19L2303	29-Apr-20	14:15:04
3	200429R2_3	ST200429R2_3 1613 CS2 19L2304	29-Apr-20	15:02:24
4	200429R2_4	ST200429R2_4 1613 CS3 19L2305	29-Apr-20	15:48:39
5	200429R2_5	ST200429R2_5 1613 CS4 19L2306	29-Apr-20	16:35:58
6	200429R2_6	ST200429R2_6 1613 CS5 19L2307	29-Apr-20	17:23:21
7	200429R2_7	SOLVENT BLANK	29-Apr-20	18:10:44
8	200429R2_8	SS200429R2_1 1613 SSS 19L2308	29-Apr-20	18:58:05
9	200429R2_9	B0C0304-BS4 OPR 10	29-Apr-20	19:54:24
10	200429R2_10	B0C0304-BS3 OPR 10	29-Apr-20	20:40:38
11	200429R2_11	B0C0304-BS2 OPR 10	29-Apr-20	21:28:00
12	200429R2_12	B0C0304-BS1 OPR 10	29-Apr-20	22:15:28
13	200429R2_13	B0D0053-BS4 OPR 10	29-Apr-20	23:02:49
14	200429R2_14	B0D0053-BS3 OPR 10	29-Apr-20	23:50:11
15	200429R2_15	B0D0053-BS2 OPR 10	30-Apr-20	00:37:32
16	200429R2_16	B0D0053-BS1 OPR 10	30-Apr-20	01:24:55
17	200429R2_17	SOLVENT BLANK	30-Apr-20	02:12:17
18	200429R2_18	B0D0053-BLK1 Method Blank 10	30-Apr-20	02:59:37
19	200429R2_19	SOLVENT BLANK	30-Apr-20	03:55:52

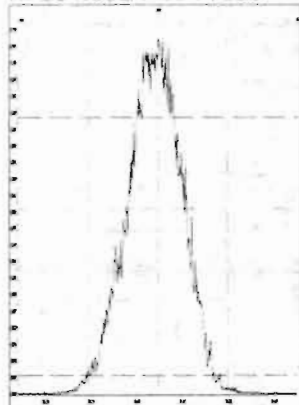
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 1 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:21:30 Pacific Daylight Time

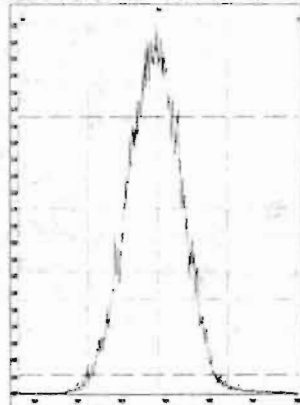
M 292.9824 R 11363



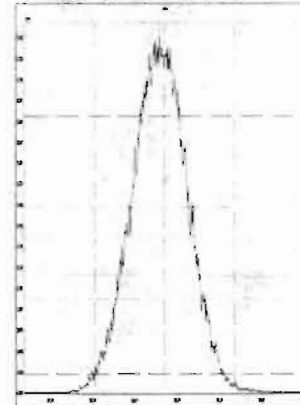
M 304.9824 R 11059



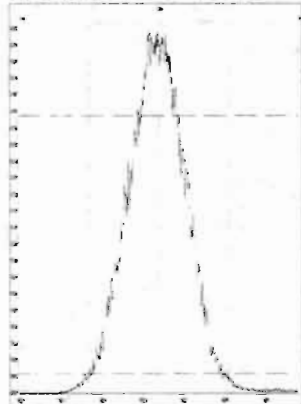
M 318.9792 R 11211



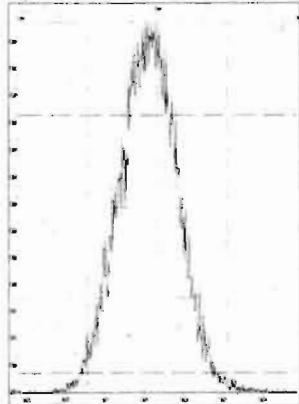
M 330.9792 R 11311



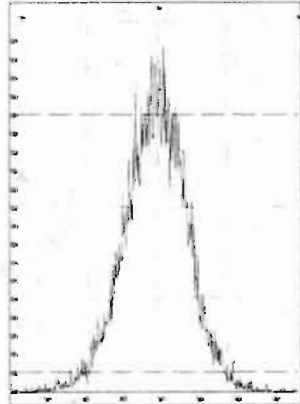
M 342.9792 R 10772



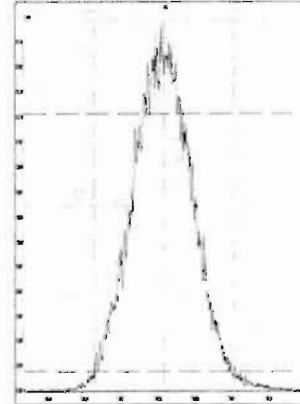
M 354.9792 R 10729



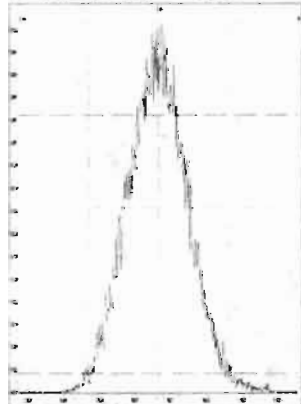
M 366.9792 R 10078



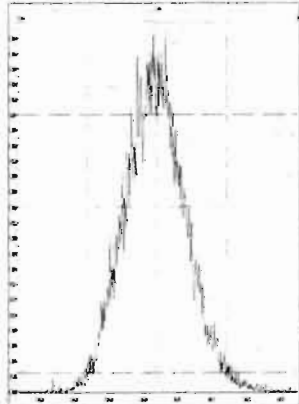
M 380.9760 R 10288



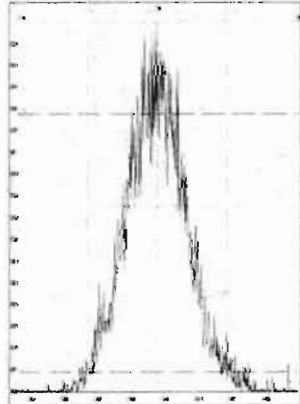
M 392.9760 R 10371



M 404.9760 R 10417



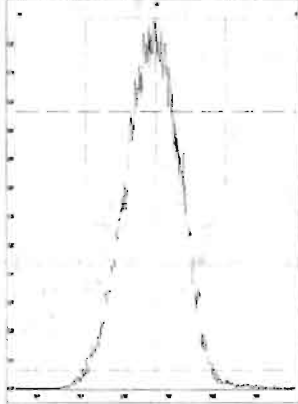
M 416.9760 R 10964



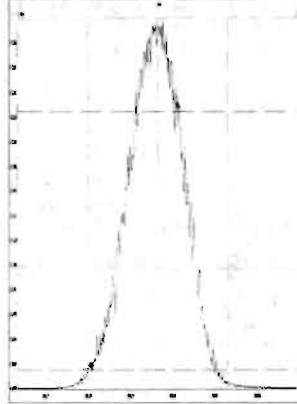
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Wednesday, April 29, 2020 13:22:18 Pacific Daylight Time

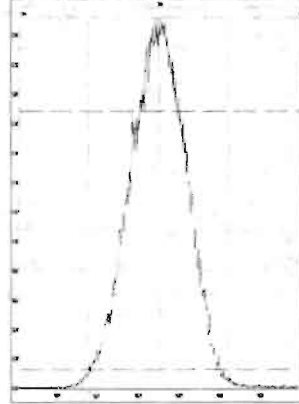
M 318.9792 R 11365



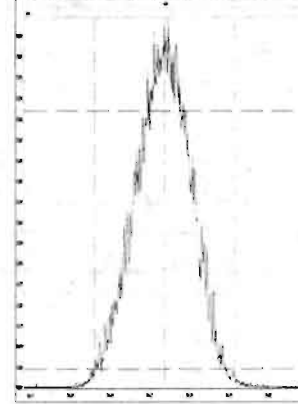
M 330.9792 R 11420



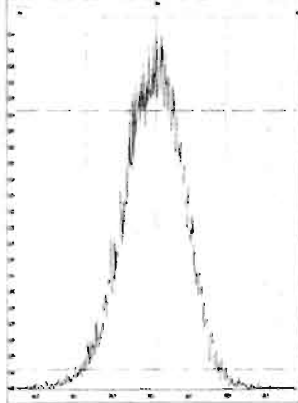
M 342.9792 R 10824



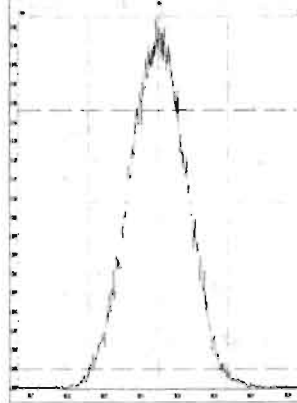
M 354.9792 R 11312



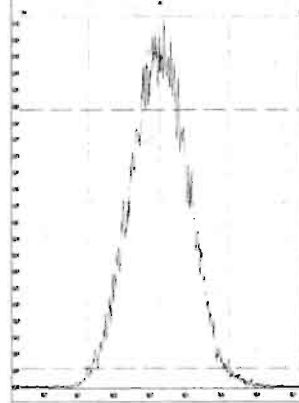
M 366.9792 R 10371



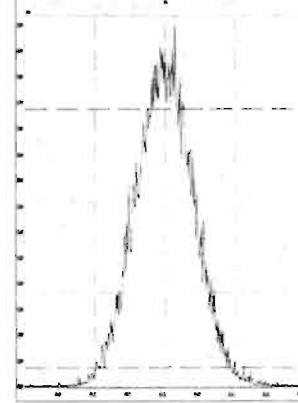
M 380.9760 R 10772



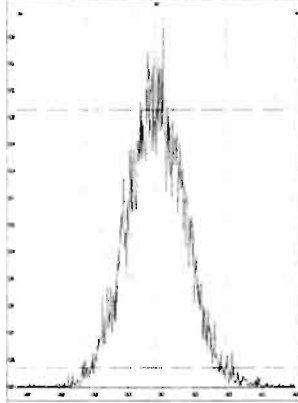
M 392.9760 R 10916



M 404.9760 R 10370



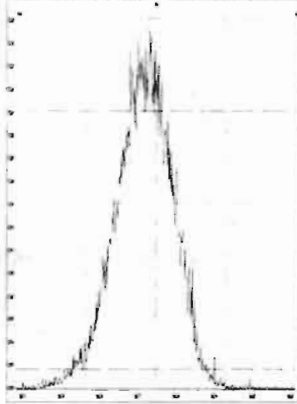
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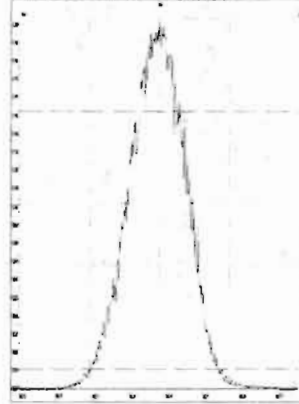
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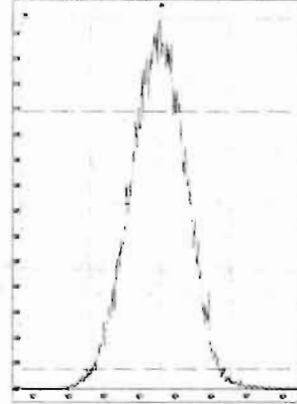
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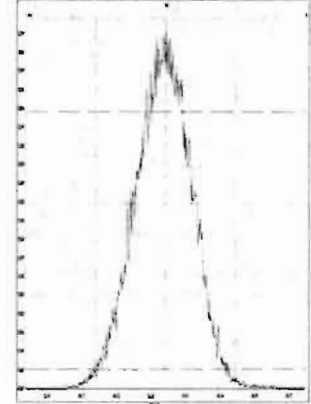
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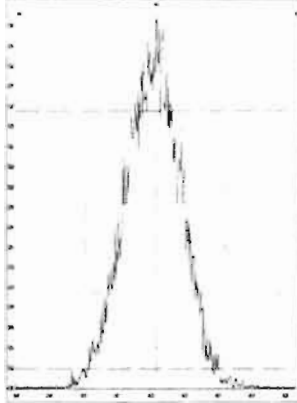
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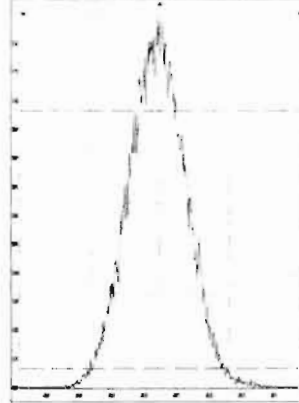
M 404.9760 R 10867



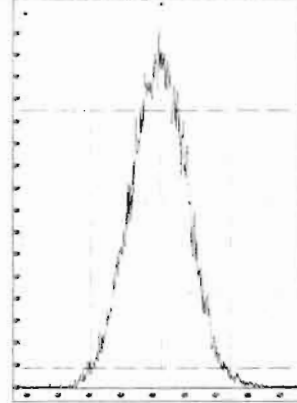
M 416.9760 R 11210



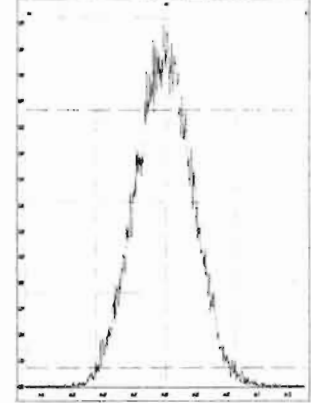
M 430.9728 R 10637



M 442.9728 R 10917



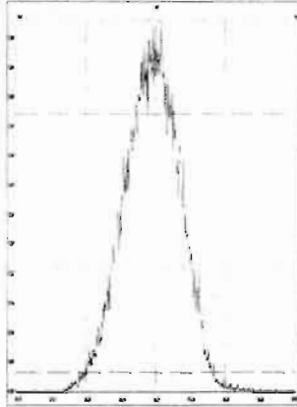
M 454.9728 R 10683



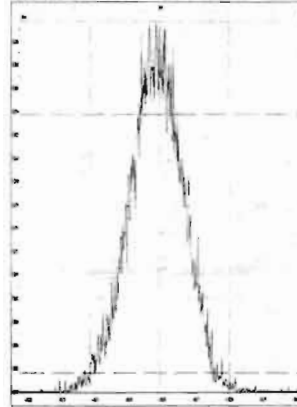
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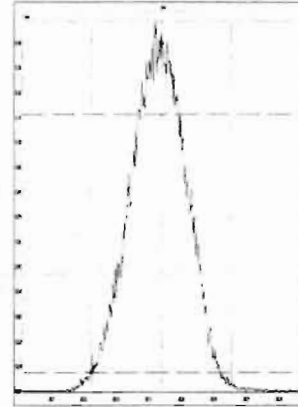
M 404.9760 R 11060



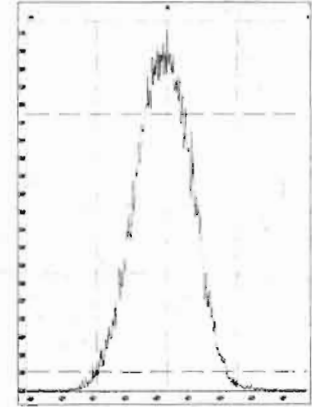
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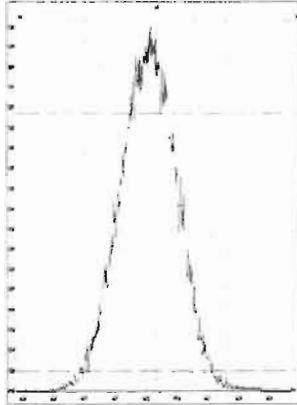
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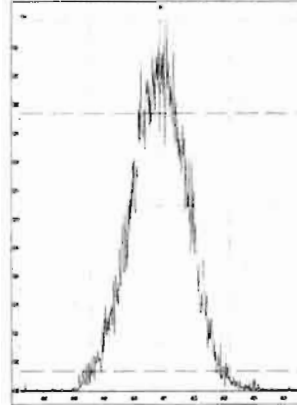
M 442.9728 R 10867



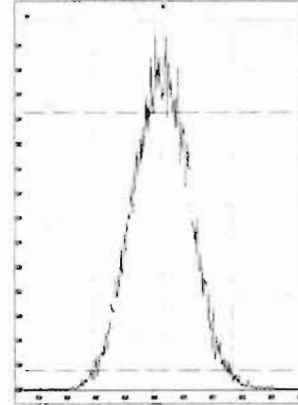
M 454.9728 R 10729



M 466.9728 R 11846



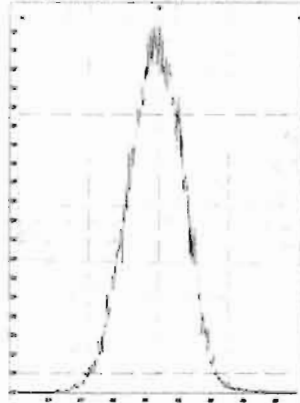
M 480.9696 R 10776



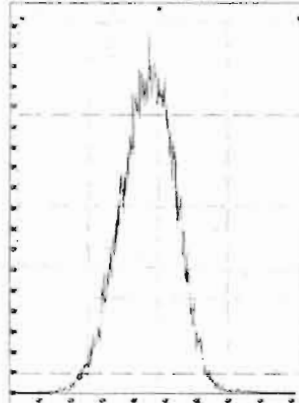
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Printed: Wednesday, April 29, 2020 13:23:43 Pacific Daylight Time

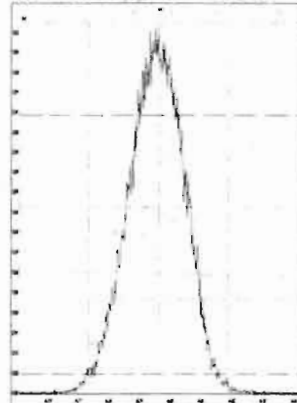
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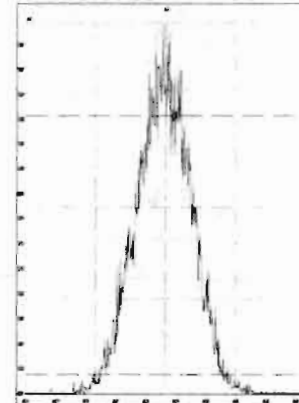
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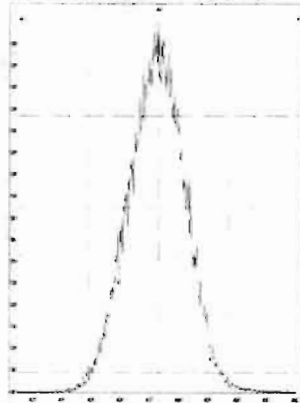
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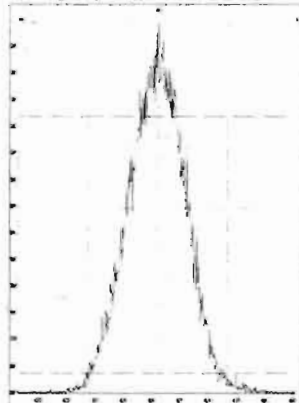
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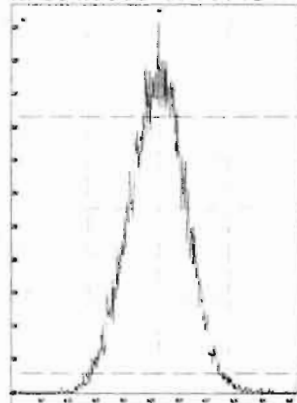
M 480.9696 R 10916



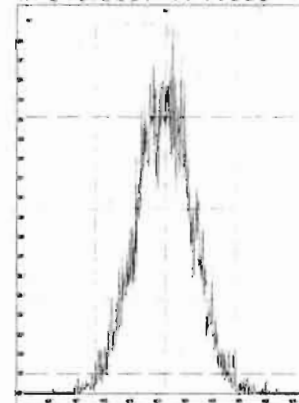
M 492.9696 R 10918



M 504.9696 R 11110



M 516.9697 R 11365



Dataset: Untitled

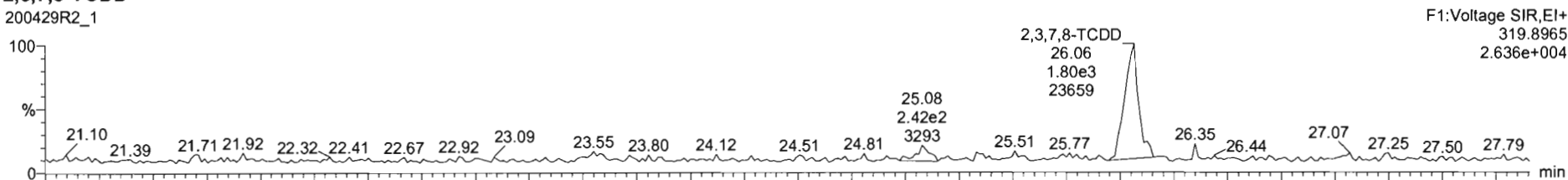
Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

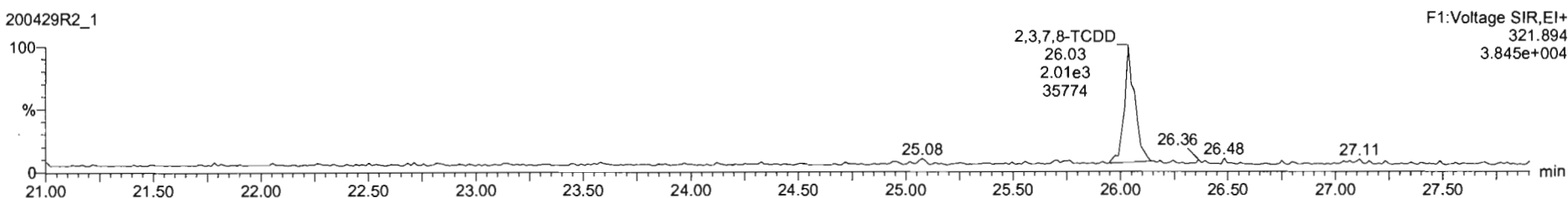
Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDD

200429R2_1

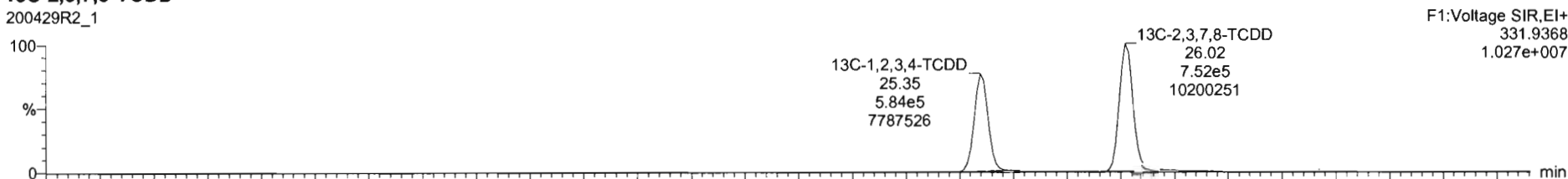


200429R2_1

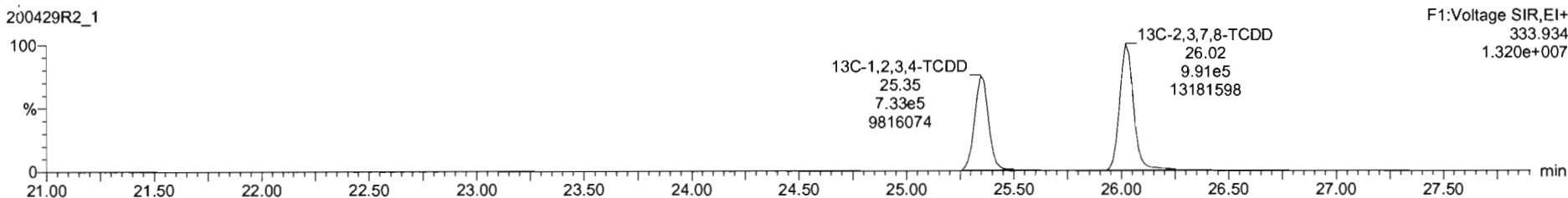


13C-2,3,7,8-TCDD

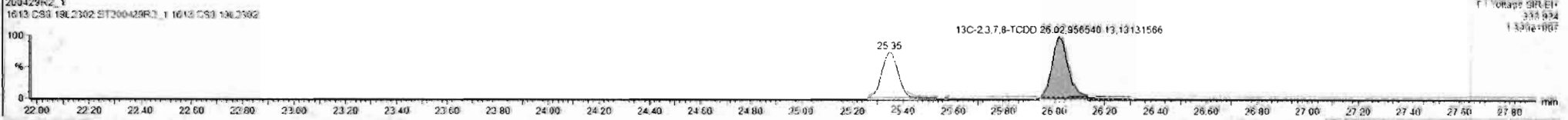
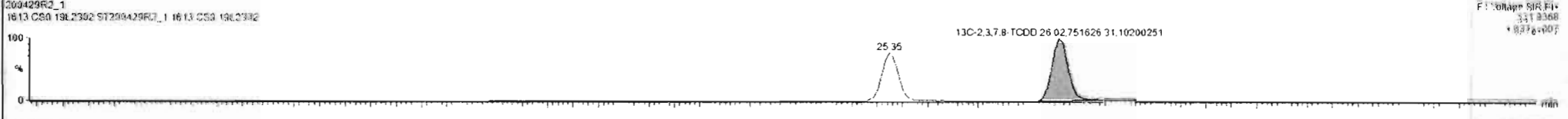
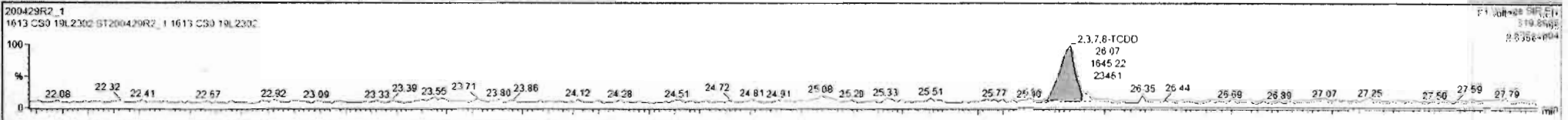
200429R2_1



200429R2_1



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.2	6.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	28.38	1.084	NO	7.9301e3	8.1666e5	1.250	-13.5	6.93	0.896	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.6	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-3.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.54	1.134	NO	1.1393e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0568
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.2594e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0706
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



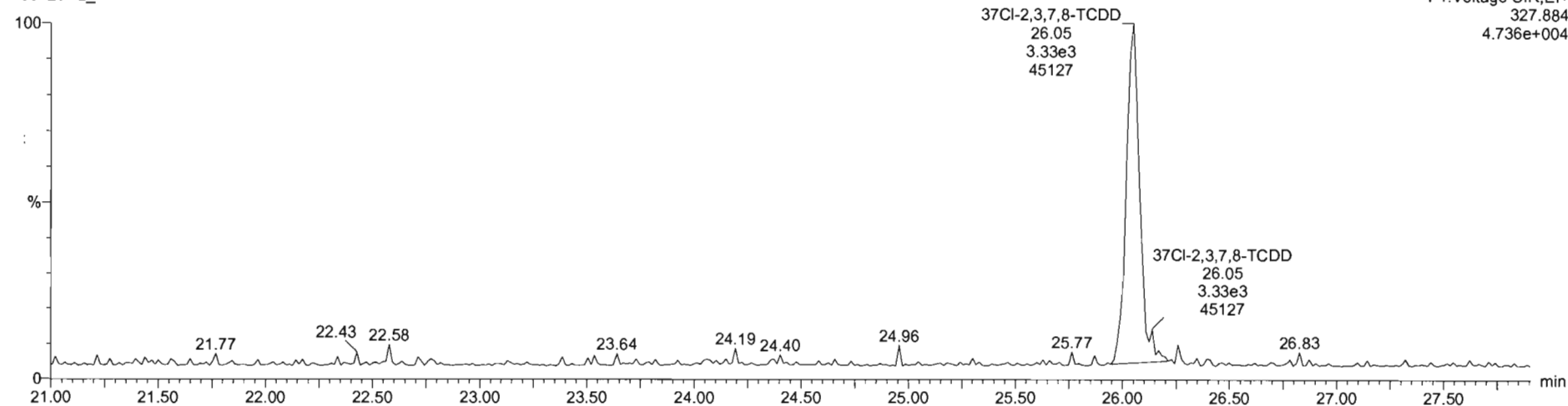
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

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

200429R2_1

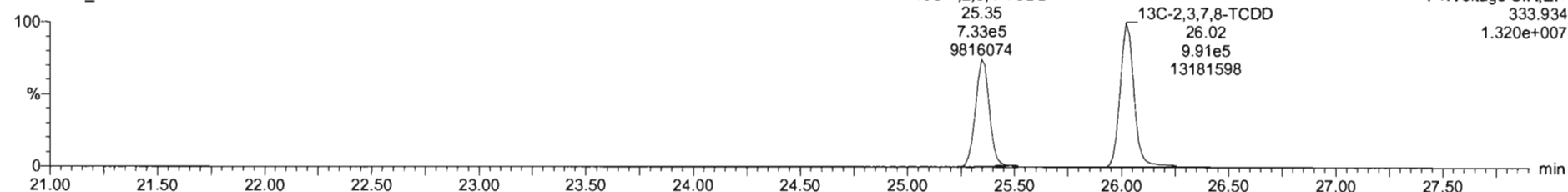


13C-1,2,3,4-TCDD

200429R2_1



200429R2_1



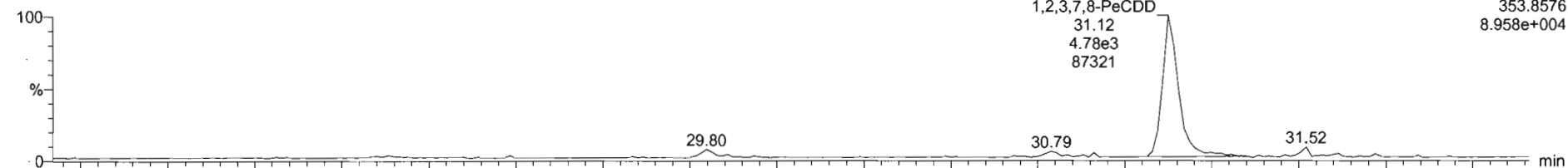
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

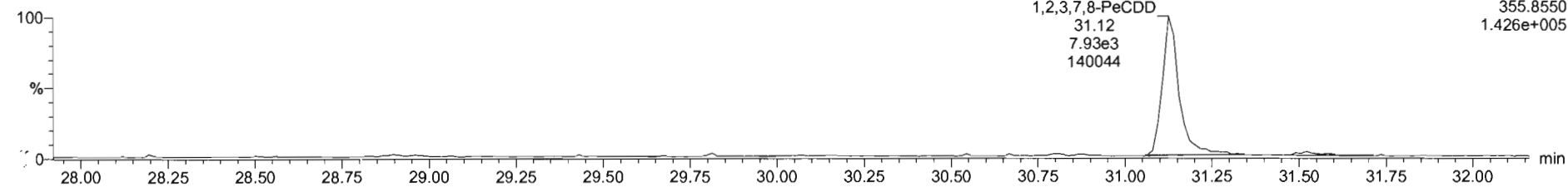
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1,2,3,7,8-PeCDD

200429R2_1

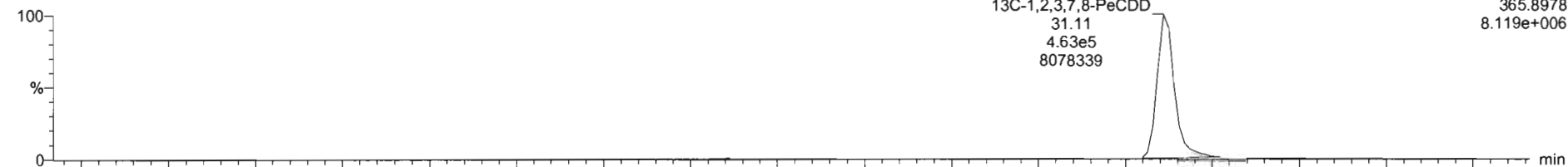


200429R2_1

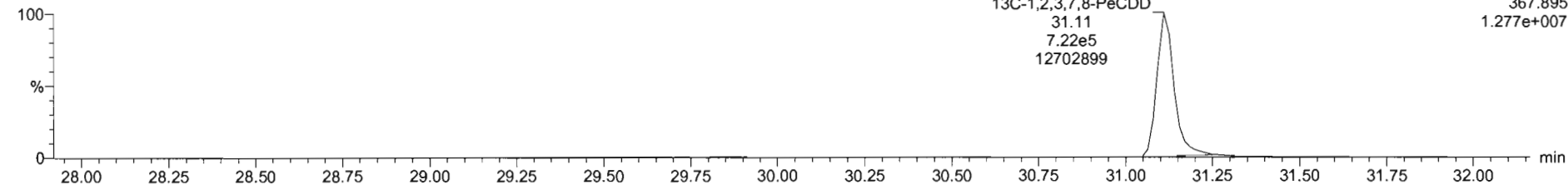


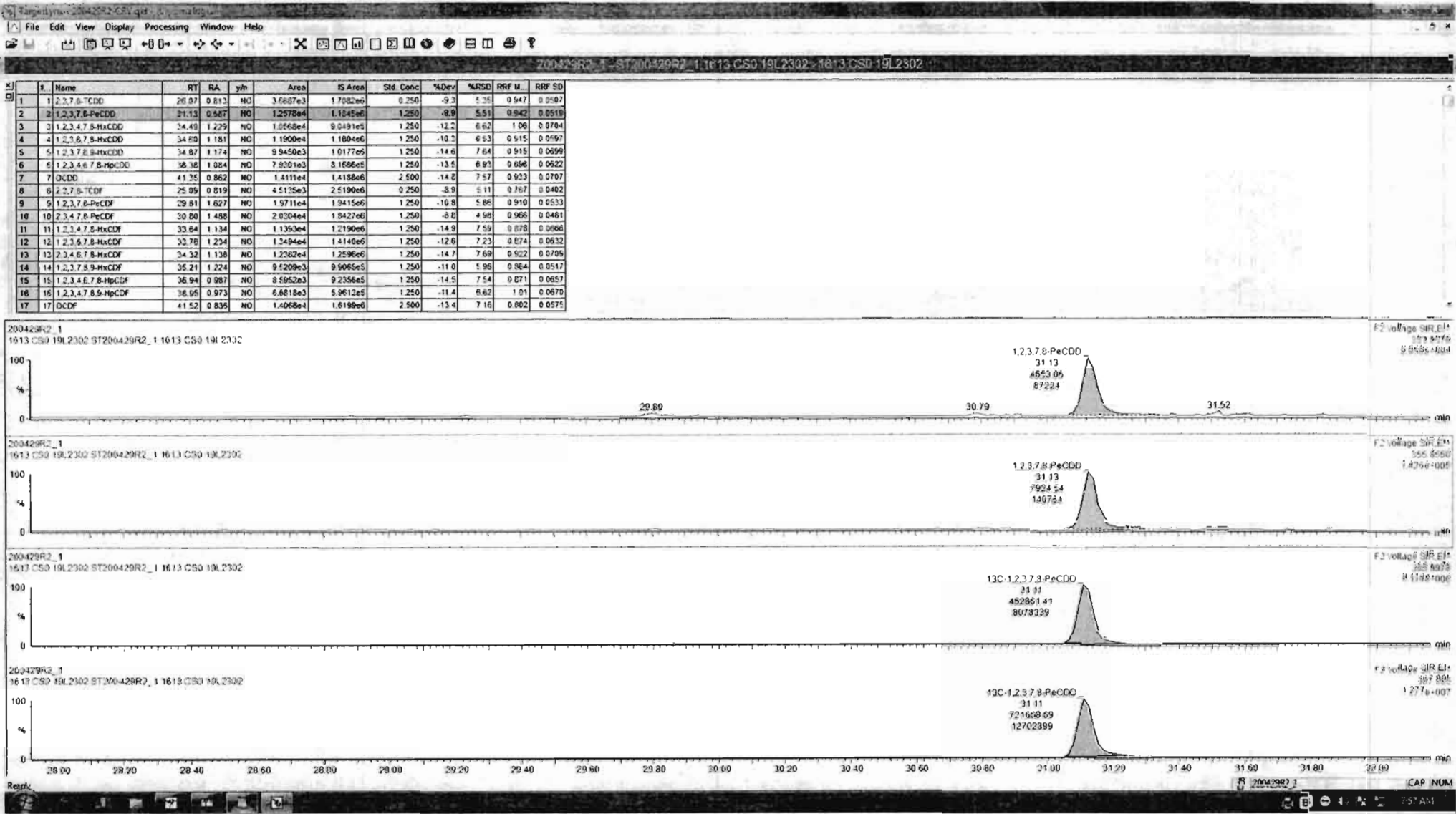
13C-1,2,3,7,8-PeCDD

200429R2_1



200429R2_1





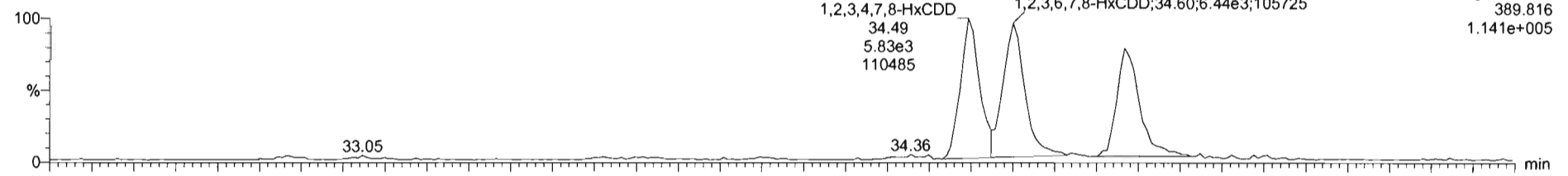
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

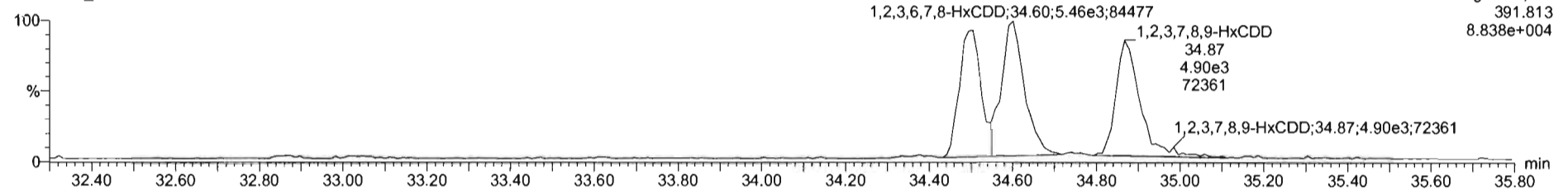
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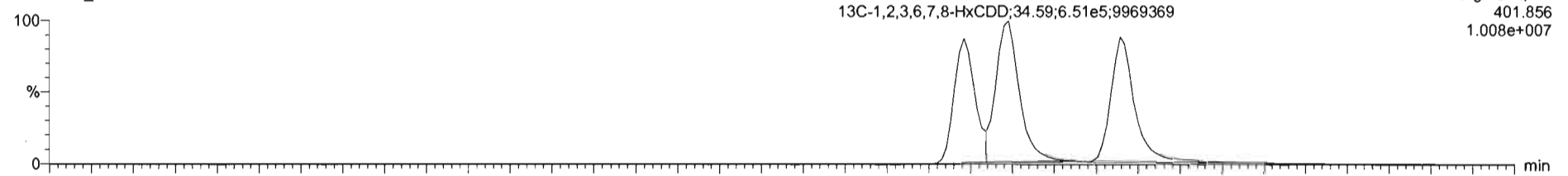


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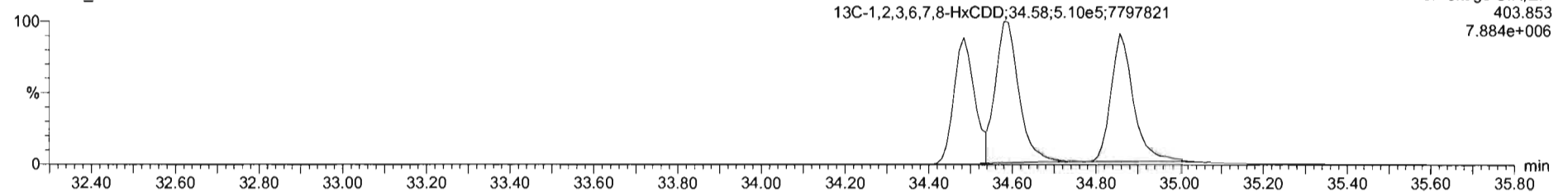


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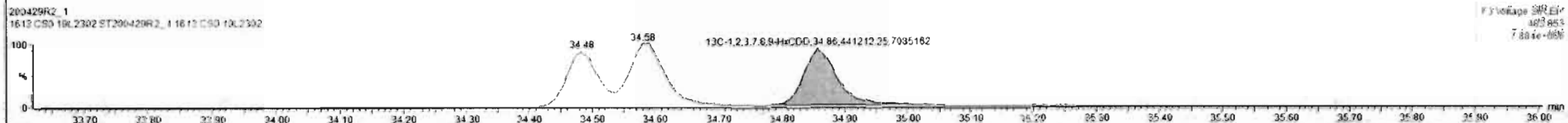
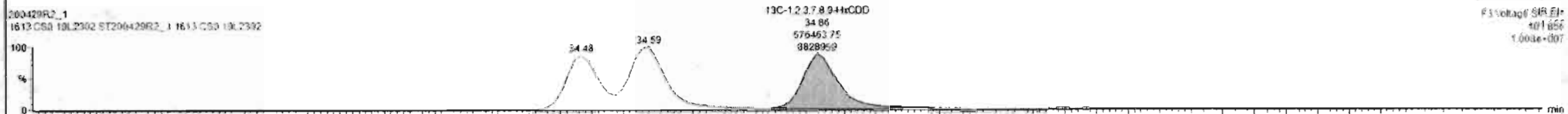
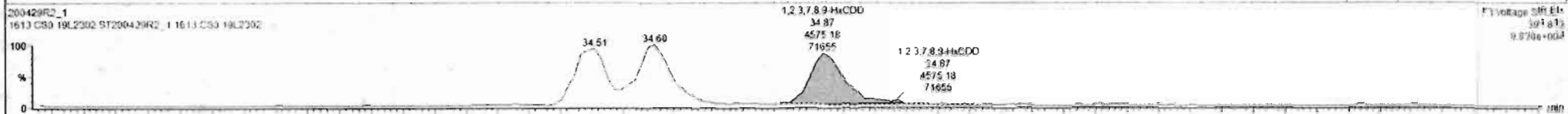
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200429R2_1



#	Name	RT	RA	Yln	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.913	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0587
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.4	7.64	0.915	0.0598
6	1,2,3,4,6,7,8-HpCDD	36.38	1.054	NO	7.9201e3	8.1666e5	1.250	-13.5	8.93	0.856	0.0522
7	OCDD	41.35	0.862	NO	1.4111e4	1.4186e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.027	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1393e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0789
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0678
17	DCDF	41.52	0.836	NO	1.4066e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



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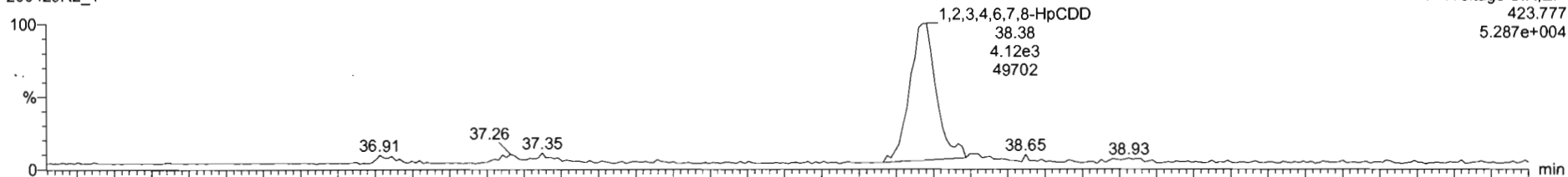
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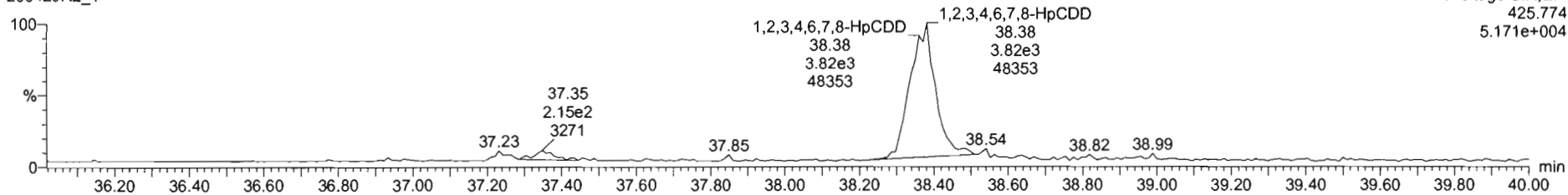
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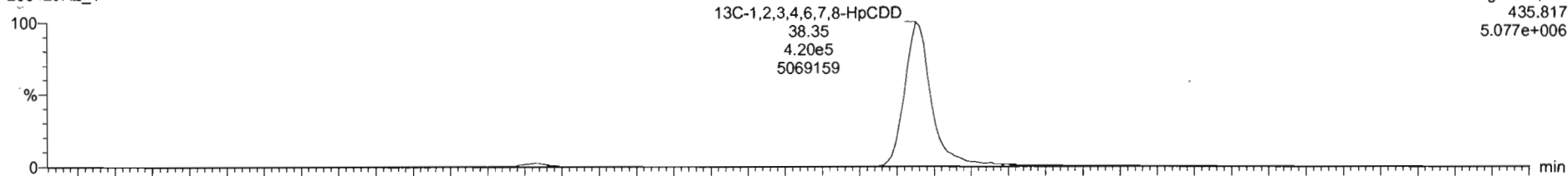


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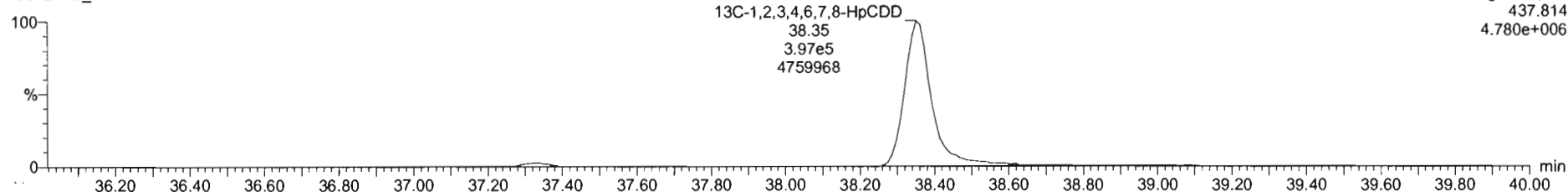


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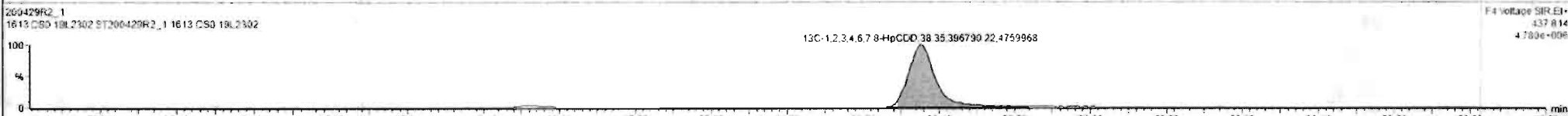
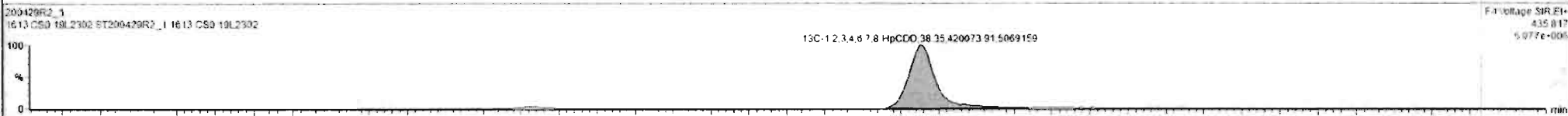
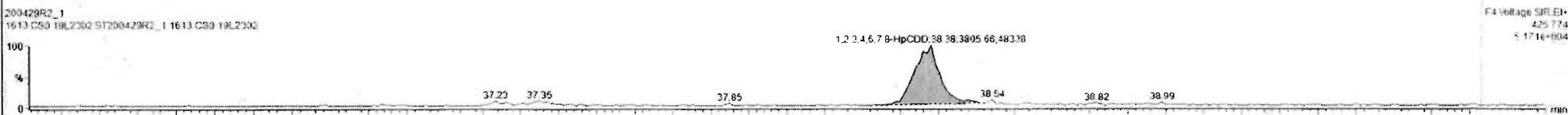
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200429R2_1



#	Name	RT	RA	y/h	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.6491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1694e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0117e6	1.250	-14.6	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.38	1.554	NO	7.9501e3	2.1666e5	1.250	-13.5	8.93	0.898	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0304e4	1.8427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2150e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0627
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9812e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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200429R2_1

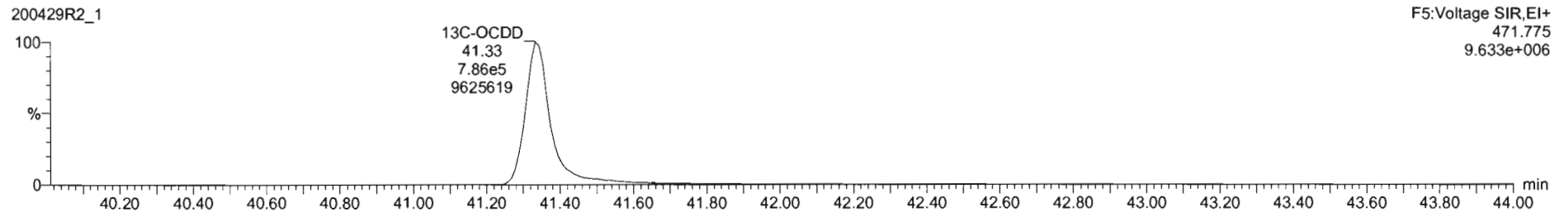
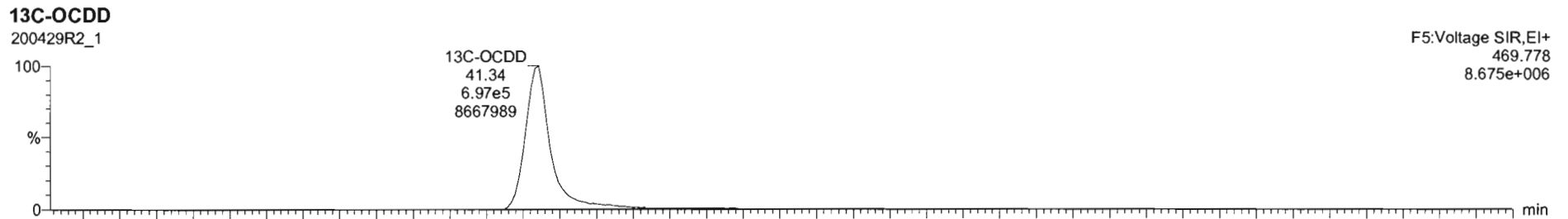
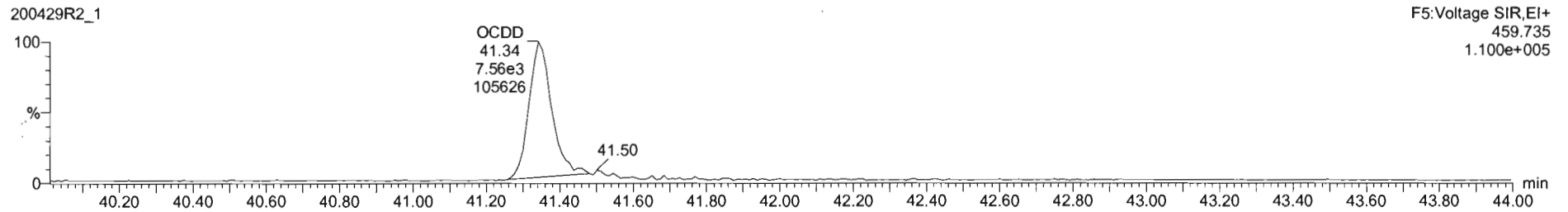
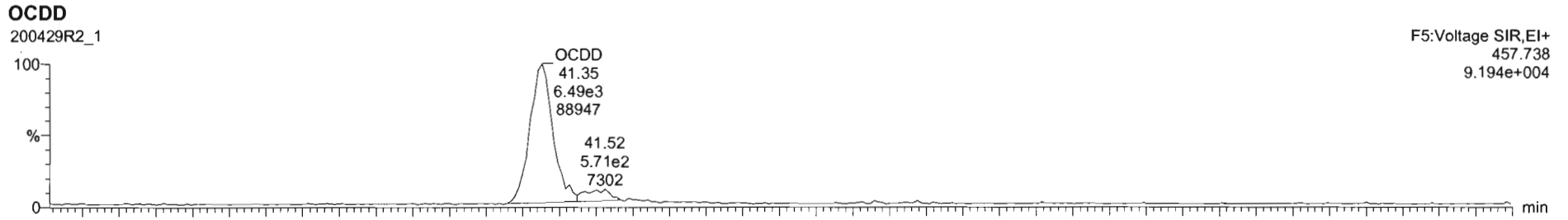
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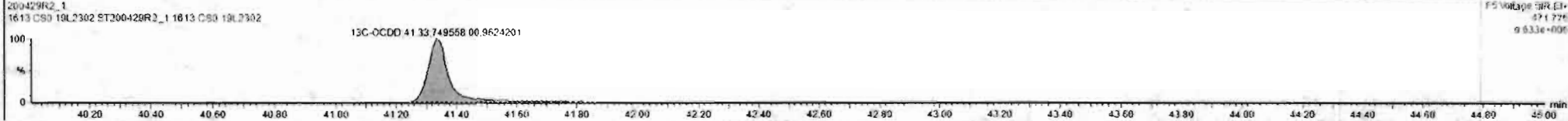
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#	Name	RT	RA	Yn	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0407
2	1,2,3,7,8-PeCDD	31.12	0.587	NO	1.2678e4	1.1845e6	1.250	-9.6	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.9568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1906e4	1.1604e6	1.250	-10.2	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.5	7.57	0.933	0.0767
8	2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.96	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.455	NO	2.0204e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1933e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.234	NO	1.3454e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.927	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.967	NO	8.5552e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6218e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.862	0.0575



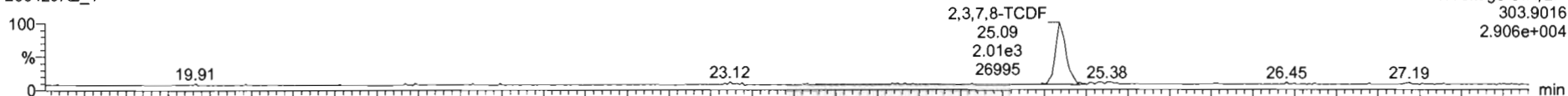
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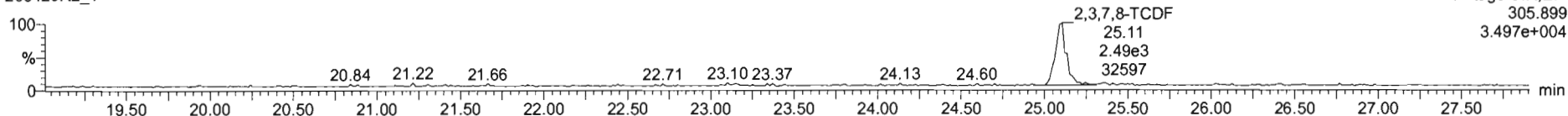
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2,3,7,8-TCDF

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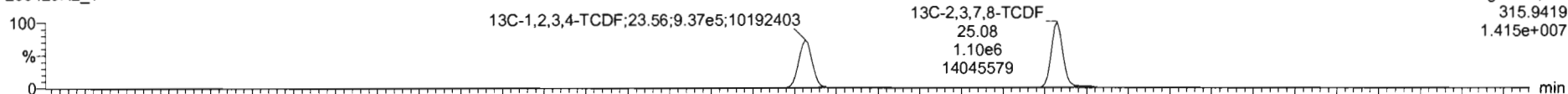


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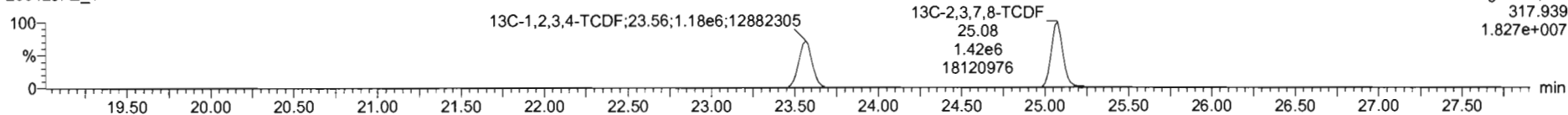


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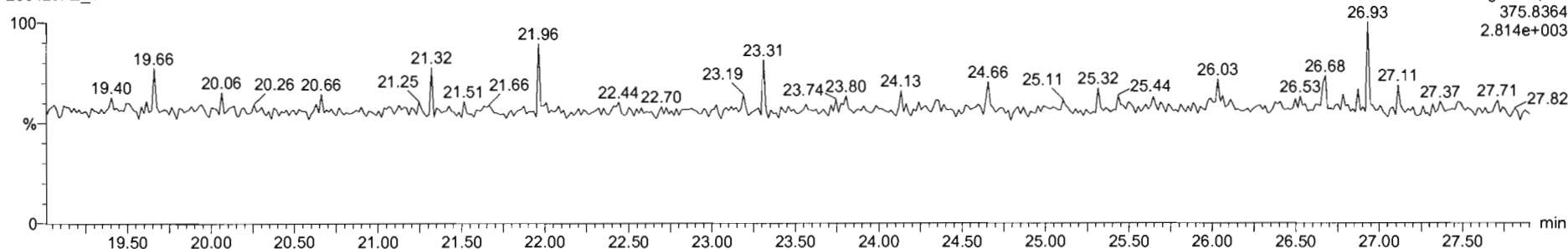


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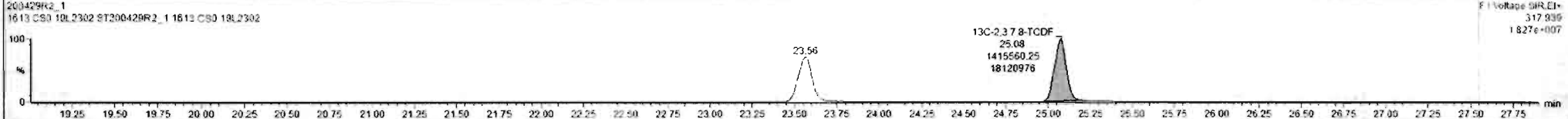
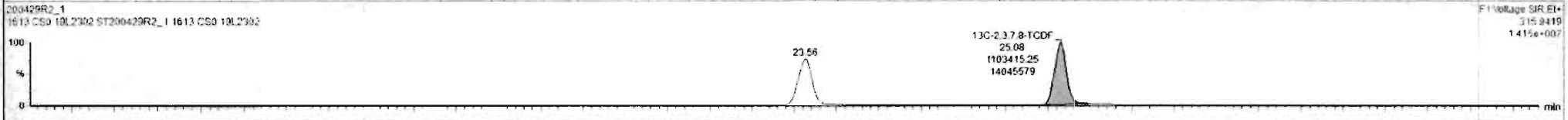
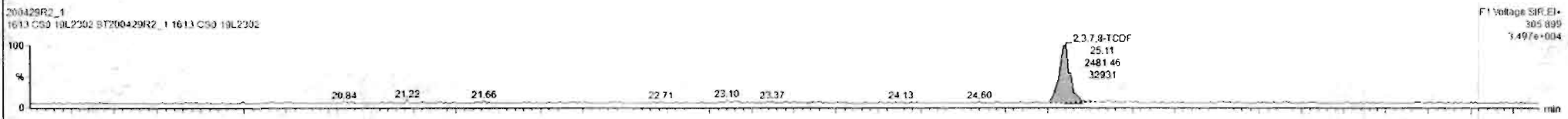
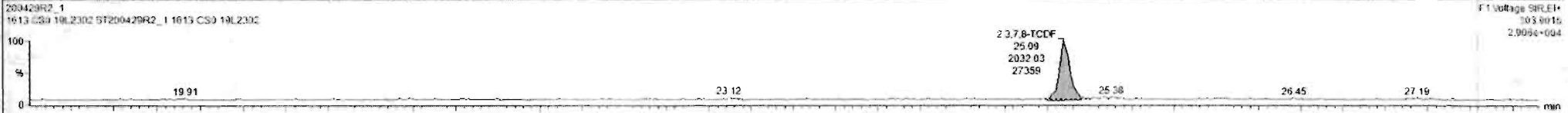


DPE1

200429R2_1



#	Name	RT	RA	Yn	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDF	25.07	0.813	NO	3.6607e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.13	0.587	NO	1.2578e4	1.1545e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.001e3	3.1686e5	1.250	-13.5	6.93	0.698	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.0	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5135e3	2.5190e6	0.250	-8.9	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.5	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.6427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.3	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2362e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	3.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0557
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8018e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0879
17	OCDF	41.52	0.838	NO	1.4068e4	1.6198e6	2.500	-13.4	7.16	0.802	0.0575



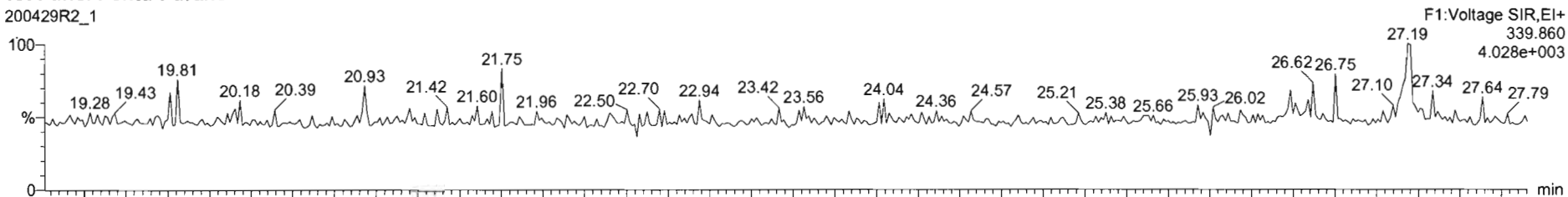
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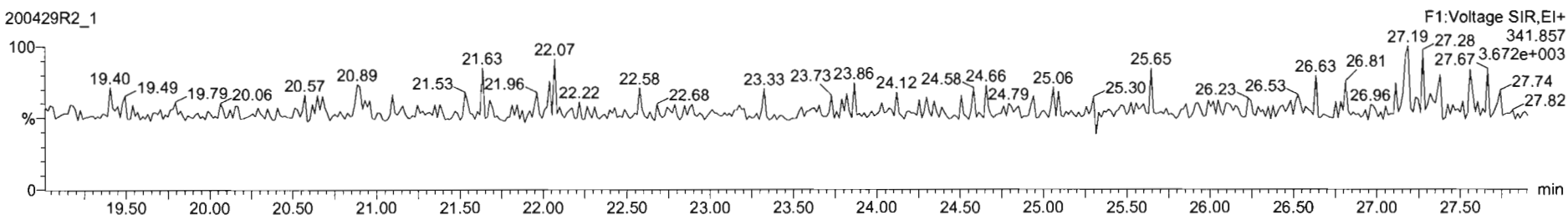
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200429R2_1

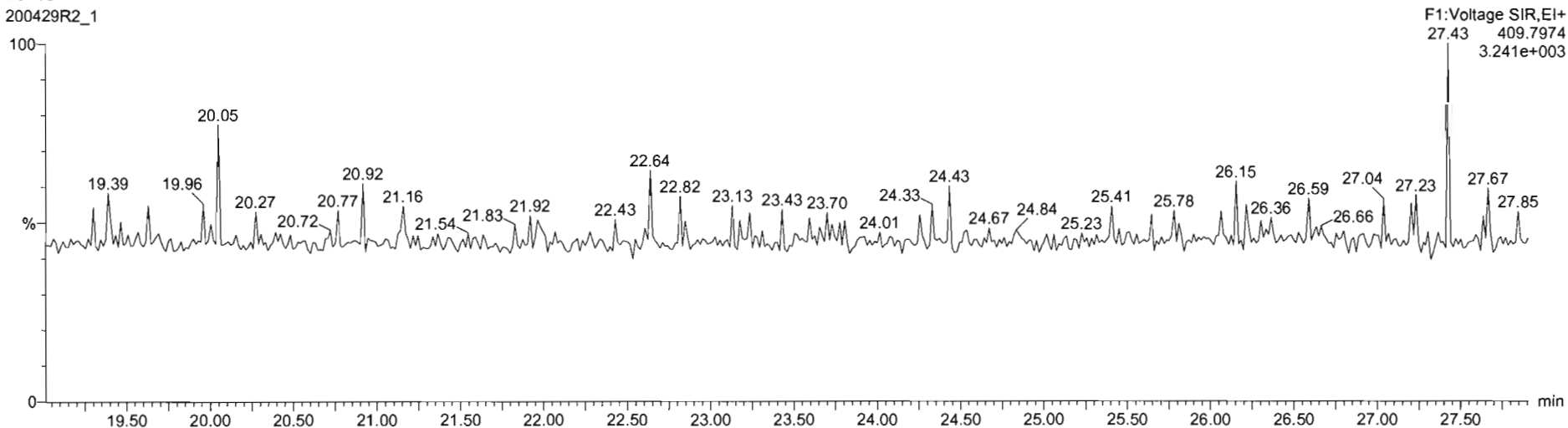


200429R2_1



DPE6

200429R2_1

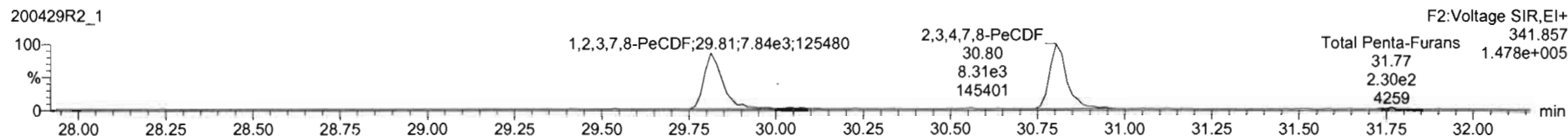
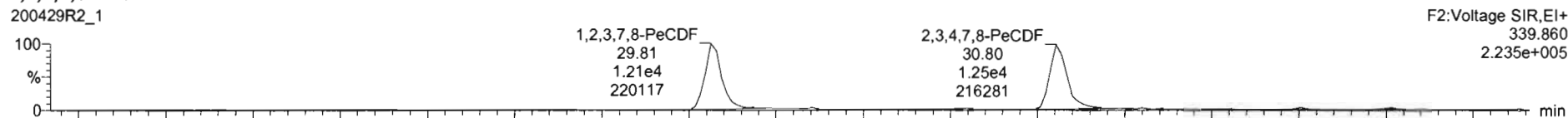


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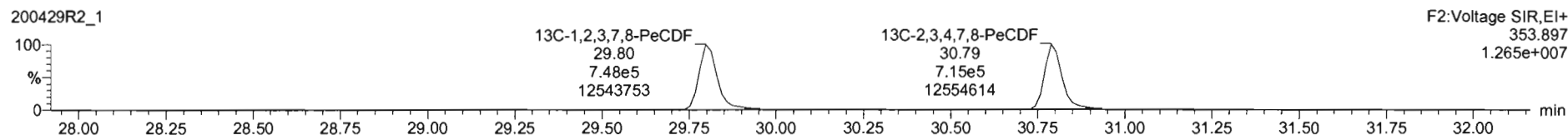
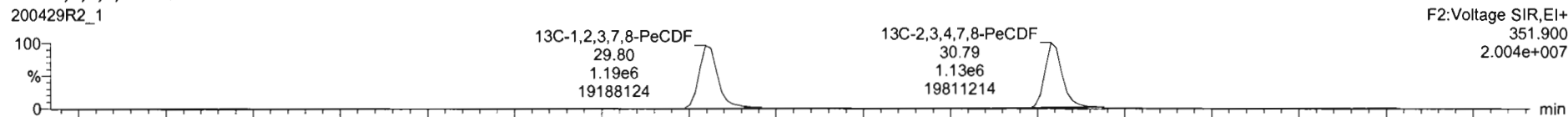
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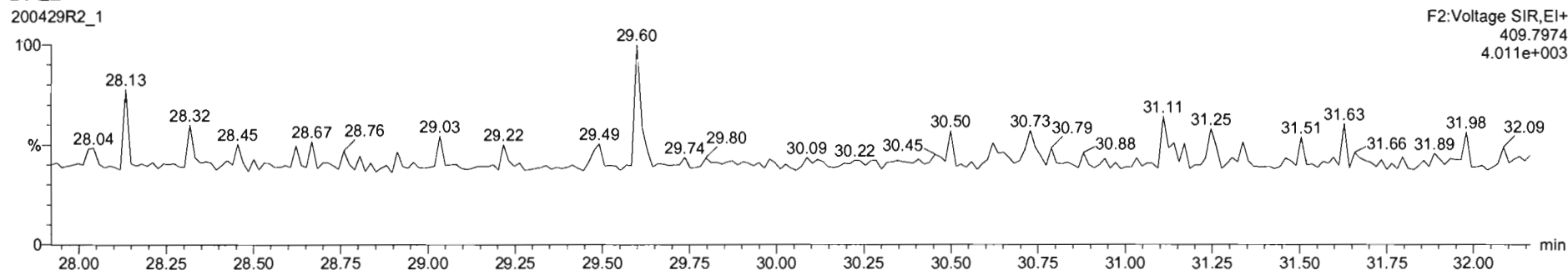
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13C-1,2,3,7,8-PeCDF

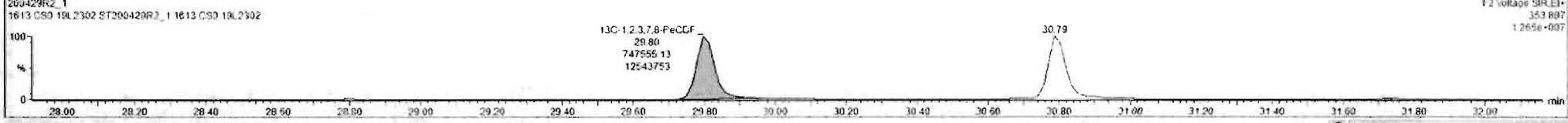
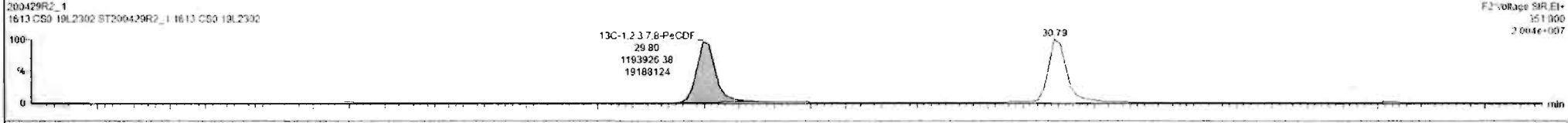
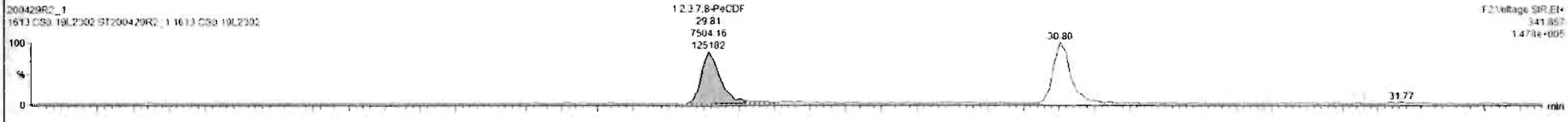
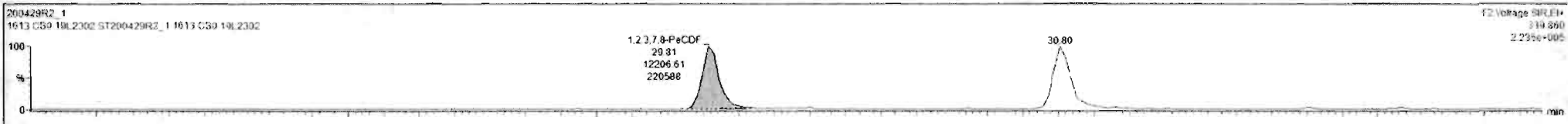


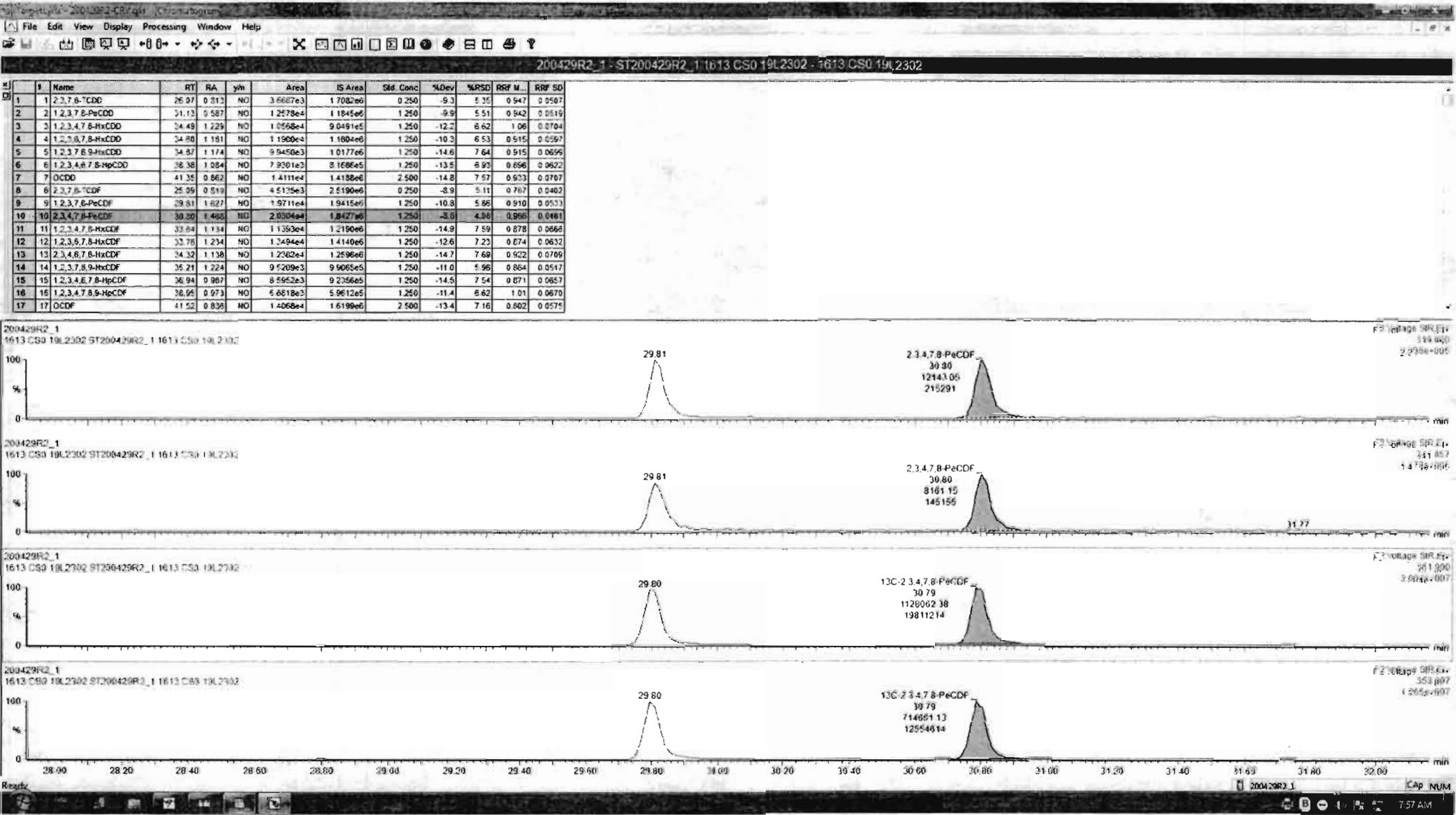
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200429R2_1 - ST200429R2_1 1613 CS0 19L2302 - 1613 CS0 19L2302

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2678e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.2	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.97	1.174	NO	9.9459e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.8201e3	8.1685e5	1.250	-13.5	6.93	0.858	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4198e6	2.500	-14.8	7.57	0.933	0.0787
8	2,3,7,8-TCDF	25.05	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.88	0.918	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.8427e6	1.250	-8.0	4.90	0.956	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1350e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.2494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.138	NO	1.2342e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.4209e3	9.9065e5	1.250	-11.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	5.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0679
17	OCDF	41.52	0.836	NO	1.4668e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575





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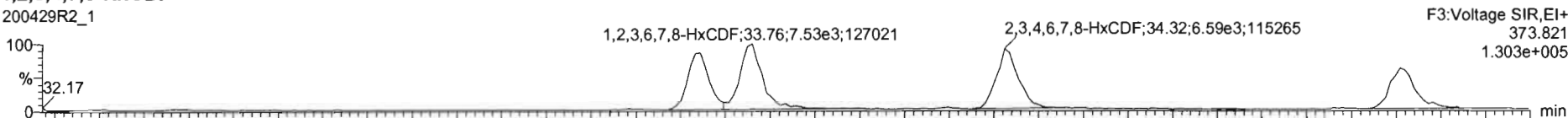
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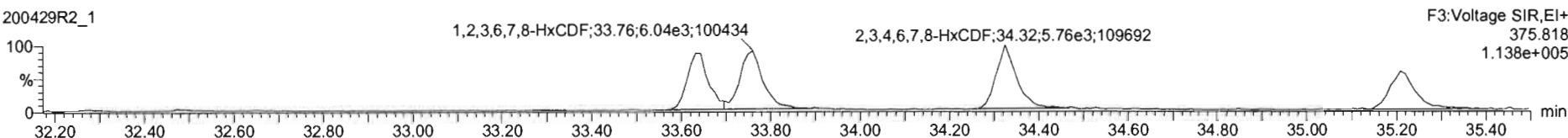
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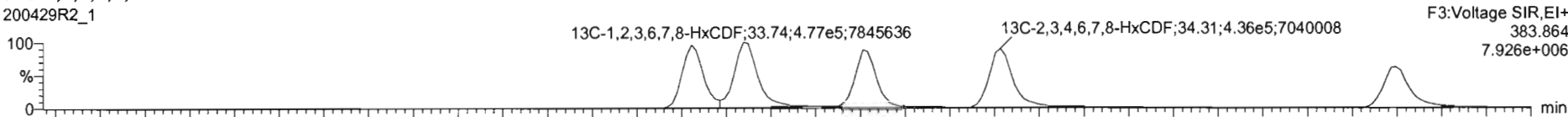


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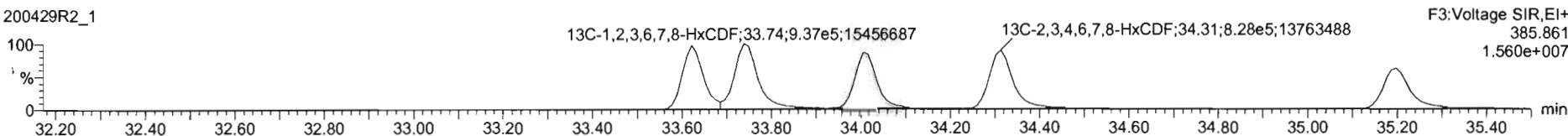


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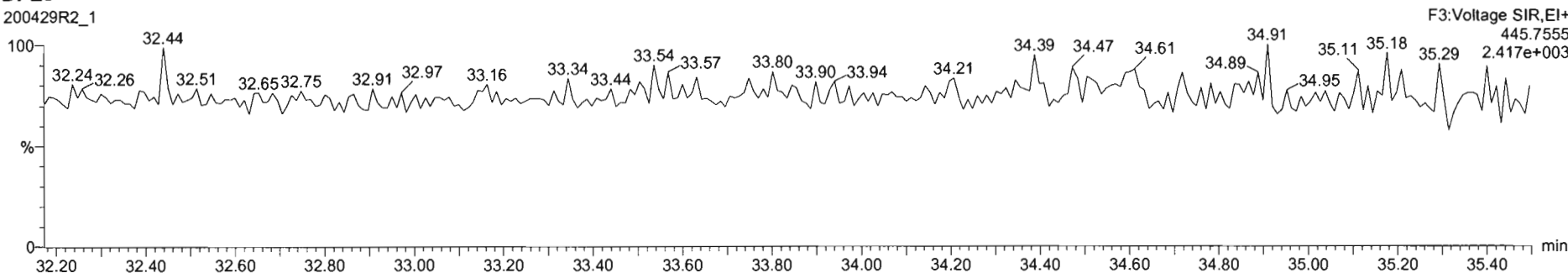


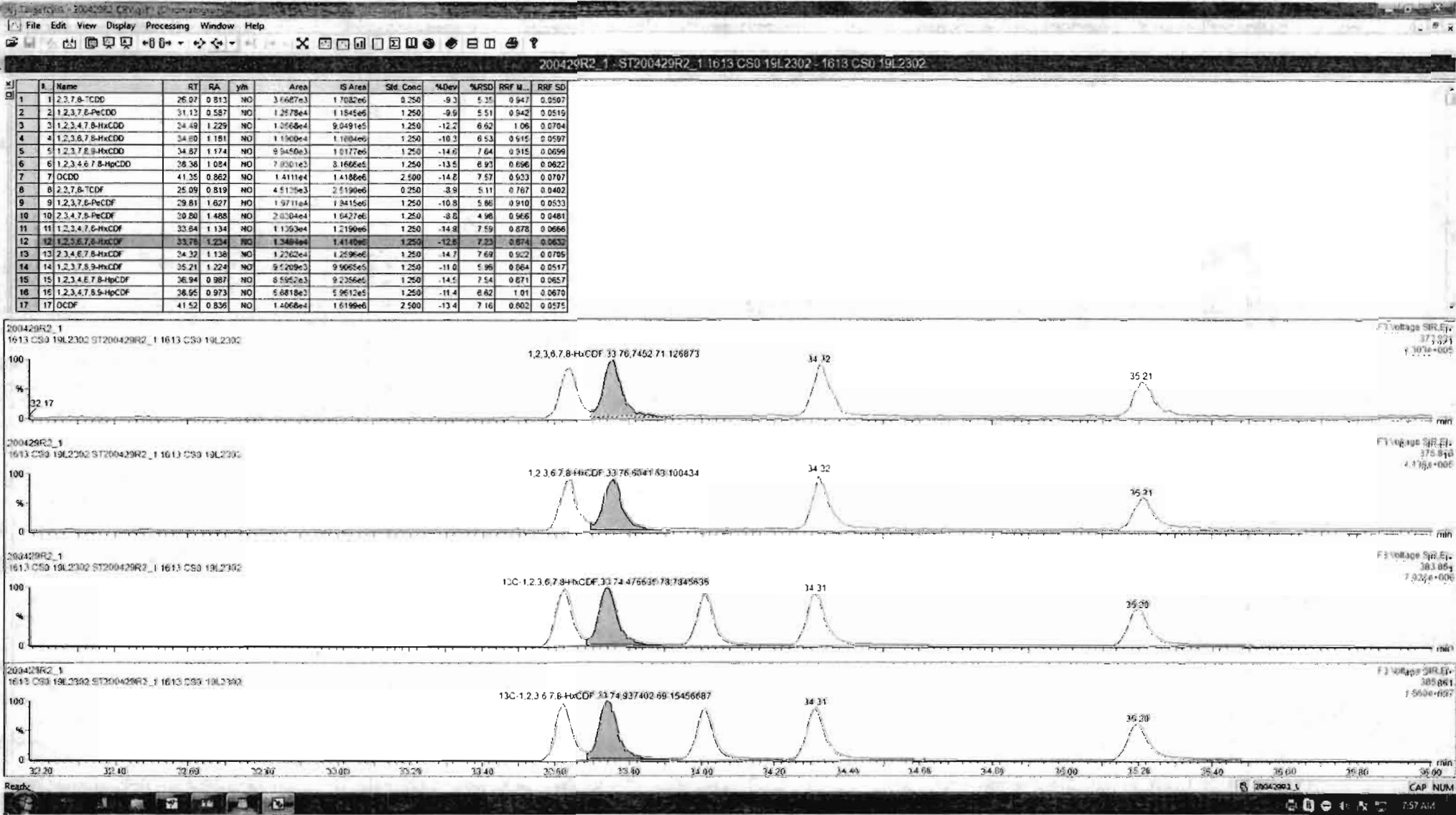
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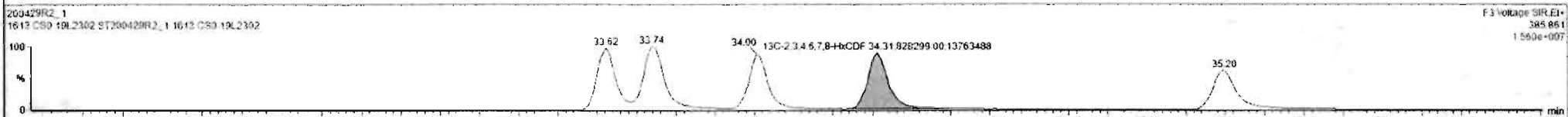
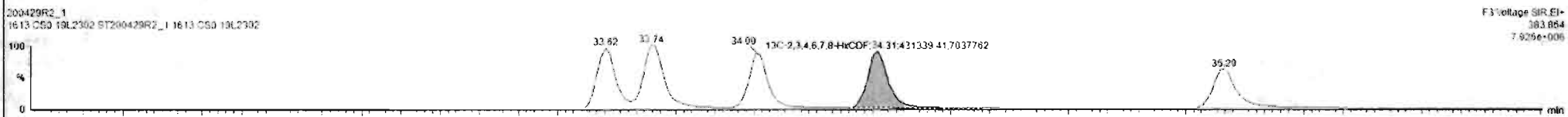
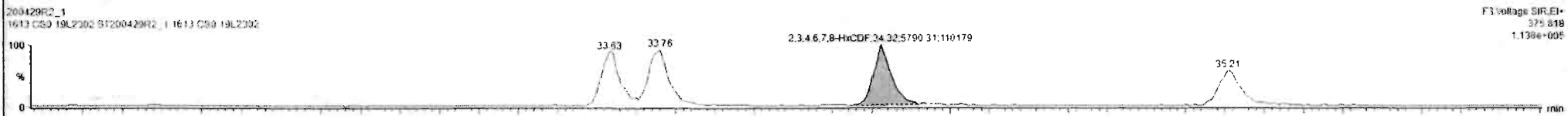
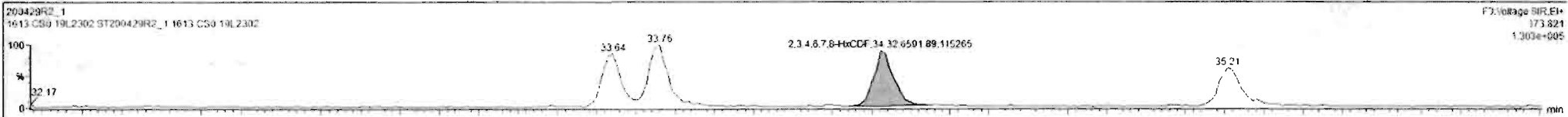
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200429R2_1





Sl	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	28.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2478e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.57	1.174	NO	9.5450e3	1.0177e6	1.250	-14.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.3001e3	8.1686e5	1.250	-13.5	6.93	0.656	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0787
8	2,2,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.88	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.9427e6	1.250	-8.2	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.70	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.130	NO	1.2232e4	1.2590e6	1.250	-14.7	7.68	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.964	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2386e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	DCDF	41.52	0.836	NO	1.4068e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575

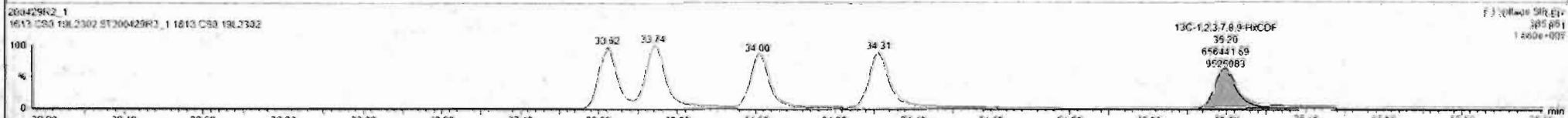
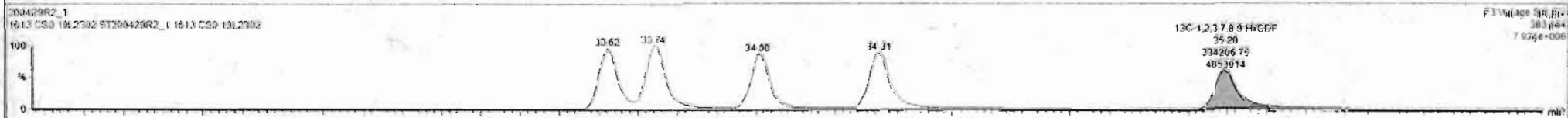


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200429R2_1 CAP NUM

7:58 AM

#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	-9.3	6.30	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2178e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.181	NO	1.1900e4	1.1688e6	1.250	-10.3	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.5450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.38	1.084	NO	7.9301e3	3.1686e5	1.250	-13.5	6.92	0.696	0.0632
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.633	0.0707
8	1,2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.4196e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.488	NO	2.0204e4	1.9427e6	1.250	-8.8	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1136e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.37	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.98	0.704	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.94	0.967	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	5.6818e3	5.9612e5	1.250	-11.4	6.82	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4066e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



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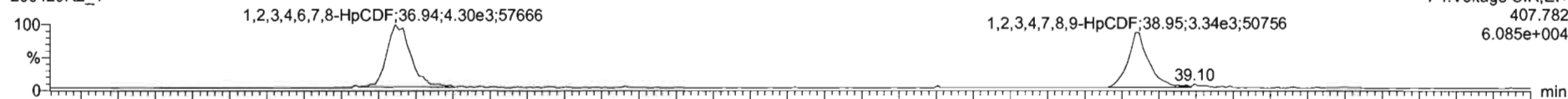
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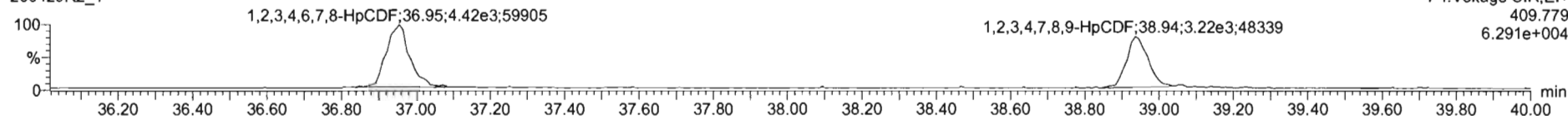
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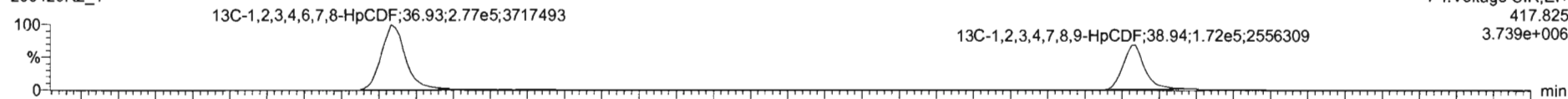


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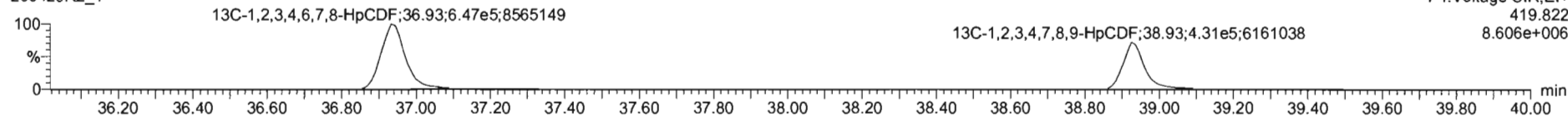


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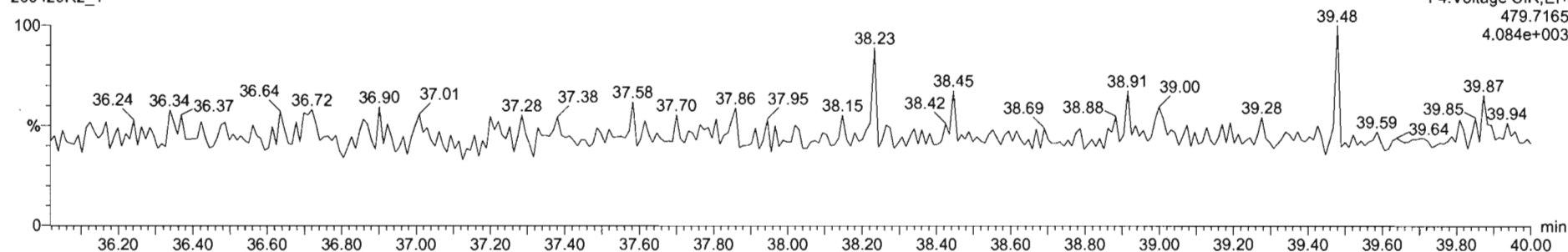


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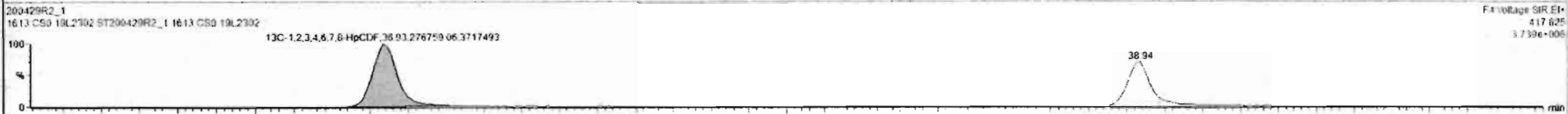
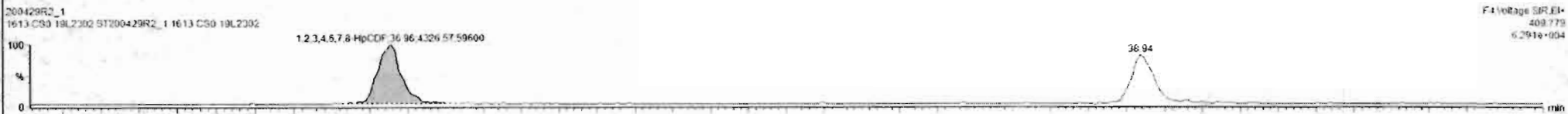
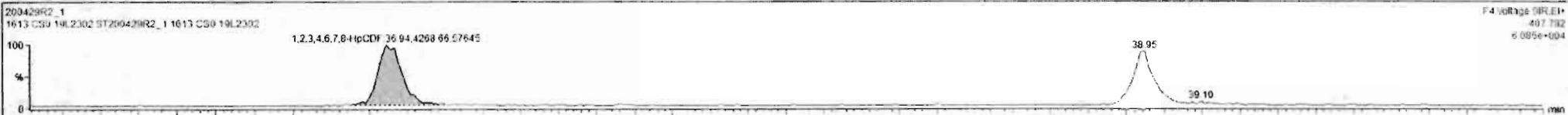


DPE4

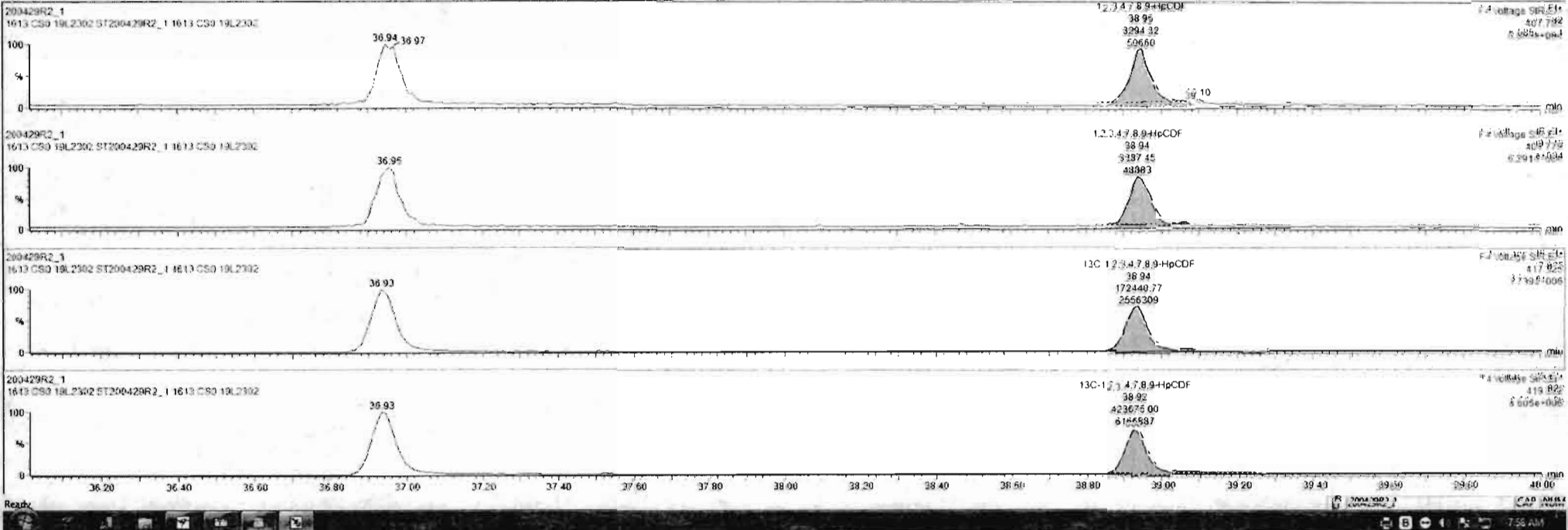
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#	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7087e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2678e4	1.1845e6	1.250	-9.9	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.9491e5	1.250	-12.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.181	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	1.084	NO	7.9201e3	8.1696e5	1.250	-13.5	6.93	0.656	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4188e6	2.500	-14.8	7.57	0.933	0.0707
8	1,2,3,7,8-TCDF	26.09	0.819	NO	4.5125e3	2.5190e6	0.250	-3.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.80	1.468	NO	2.9304e4	1.8427e6	1.250	-8.2	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.134	NO	1.1363e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.138	NO	1.2282e4	1.2596e6	1.250	-14.7	7.68	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.984	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5862e3	9.2366e5	1.250	-14.5	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	36.95	0.873	NO	6.6818e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4068e4	1.6199e6	2.500	-13.4	7.16	0.802	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7082e6	0.250	9.3	6.35	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	-9.5	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.161	NO	1.1900e4	1.1604e6	1.250	-10.3	6.53	0.515	0.0592
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.36	1.054	NO	7.9301e3	8.1686e5	1.250	-13.5	6.93	0.856	0.0622
7	OCDD	41.35	0.862	NO	1.4111e4	1.4198e6	2.500	-14.0	7.57	0.923	0.0702
8	2,3,7,8-TCDF	25.09	0.819	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.8	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.458	NO	2.0204e4	1.9427e6	1.250	-8.0	4.98	0.566	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.6065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8019e3	5.9612e5	1.250	-11.4	6.62	1.01	0.0670
17	OCDF	41.52	0.826	NO	1.4066e4	1.6199e6	2.500	-13.4	7.10	0.802	0.0575



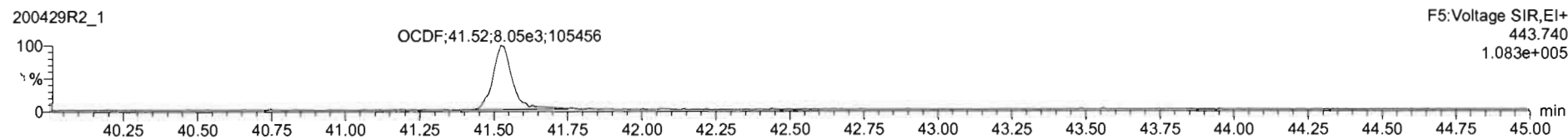
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time

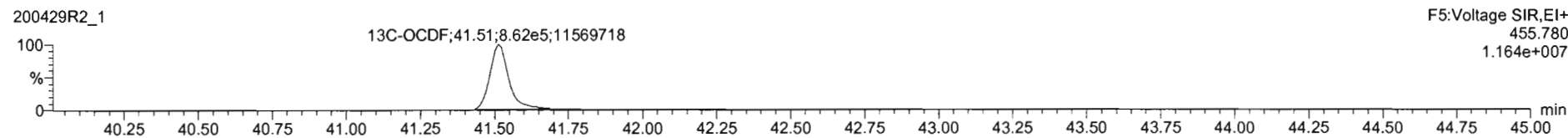
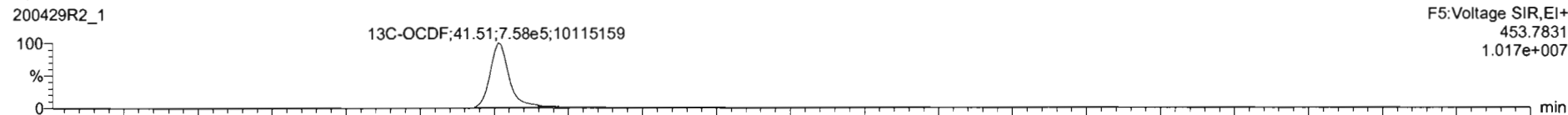
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

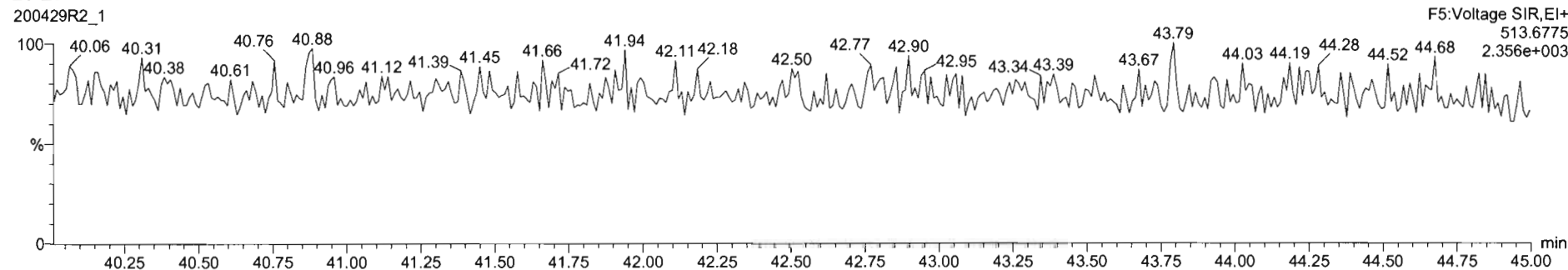
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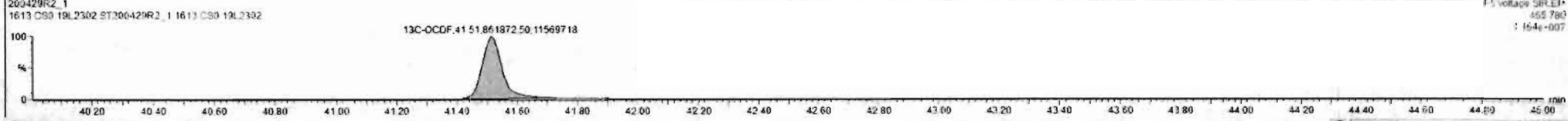
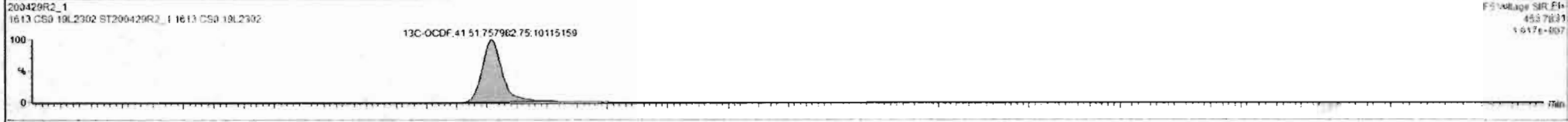
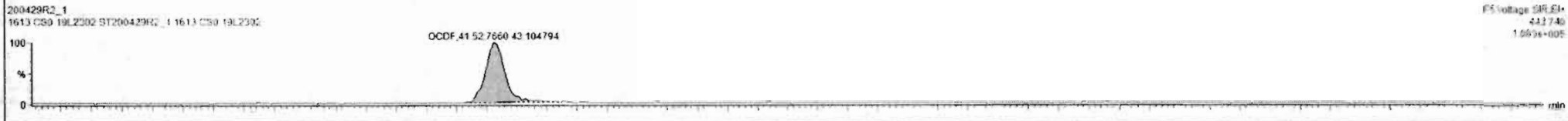
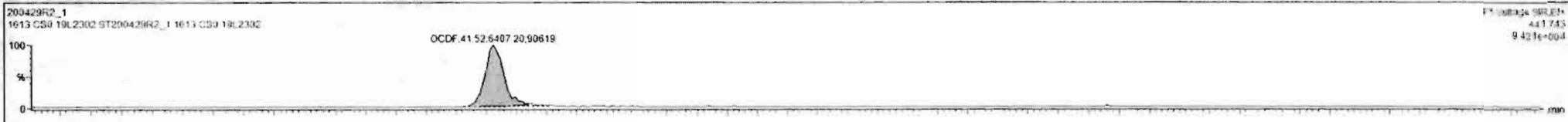
13C-OCDF



DPE5



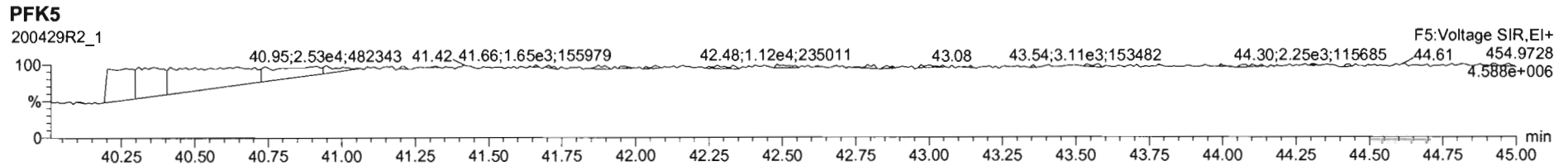
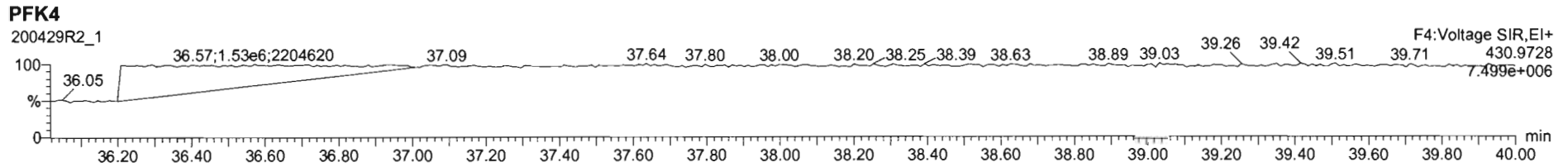
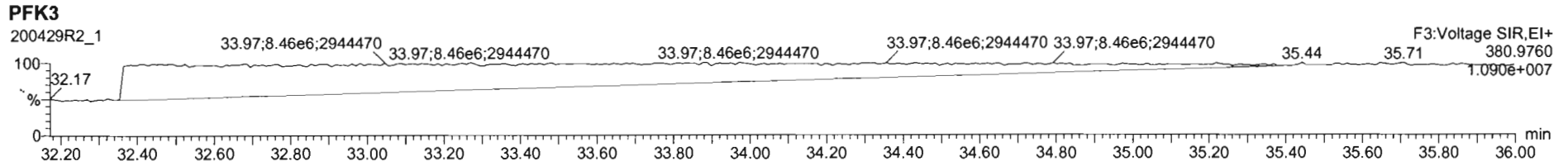
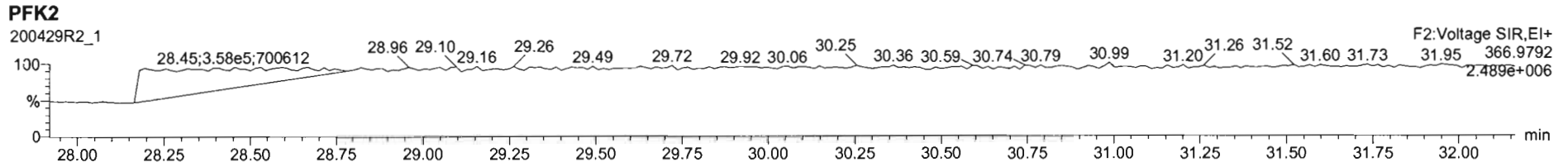
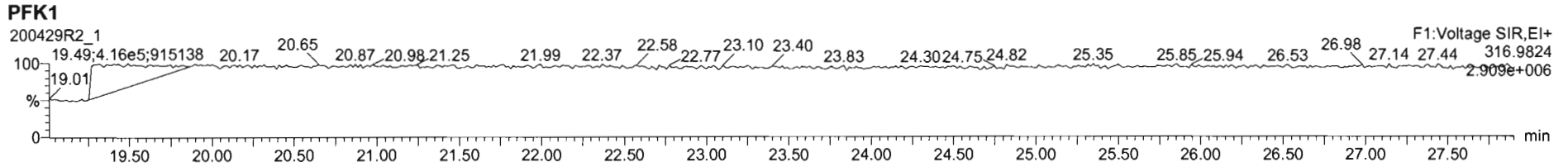
#	Name	RT	RA	Yln	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.813	NO	3.6687e3	1.7032e6	0.250	-9.3	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.587	NO	1.2578e4	1.1845e6	1.250	9.9	5.51	0.942	0.0516
3	1,2,3,6,7,8-HxCDD	34.49	1.229	NO	1.0568e4	9.0491e5	1.250	-12.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.40	1.191	NO	1.1900e4	1.1804e6	1.250	-10.3	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.174	NO	9.9450e3	1.0177e6	1.250	-14.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.094	NO	7.9201e3	3.1686e5	1.250	-13.5	6.97	0.856	0.0622
7	OCDD	41.35	0.962	NO	1.4111e4	1.4188e6	2.500	-14.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.95	0.919	NO	4.5125e3	2.5190e6	0.250	-8.9	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.627	NO	1.9711e4	1.9415e6	1.250	-10.3	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.00	1.488	NO	2.004e4	1.8427e6	1.250	-8.0	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.134	NO	1.1353e4	1.2190e6	1.250	-14.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.234	NO	1.3494e4	1.4140e6	1.250	-12.6	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.138	NO	1.2262e4	1.2596e6	1.250	-14.7	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.224	NO	9.5209e3	9.9065e5	1.250	-11.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.94	0.987	NO	8.5952e3	9.2356e5	1.250	-14.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.973	NO	6.8818e3	5.9612e5	1.250	-11.4	6.67	1.01	0.0670
17	OCDF	41.52	0.836	NO	1.4065e4	1.6189e6	2.500	-13.4	7.16	0.802	0.0575



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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_1, Date: 29-Apr-2020, Time: 13:27:25, ID: ST200429R2_1 1613 CS0 19L2302, Description: 1613 CS0 19L2302



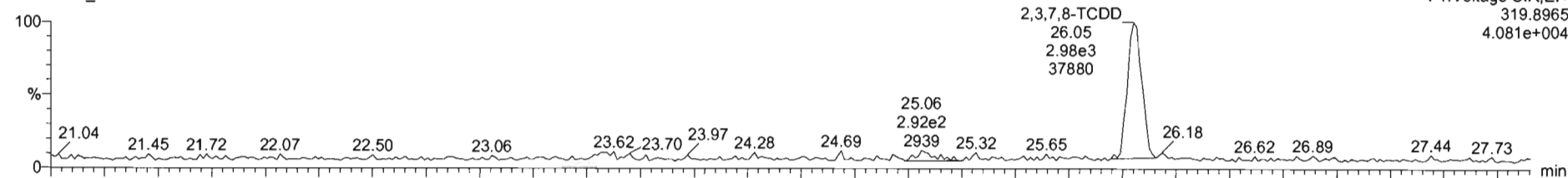
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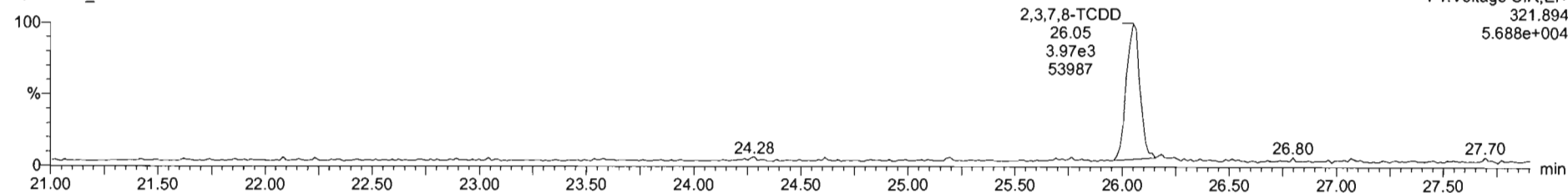
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2,3,7,8-TCDD

200429R2_2

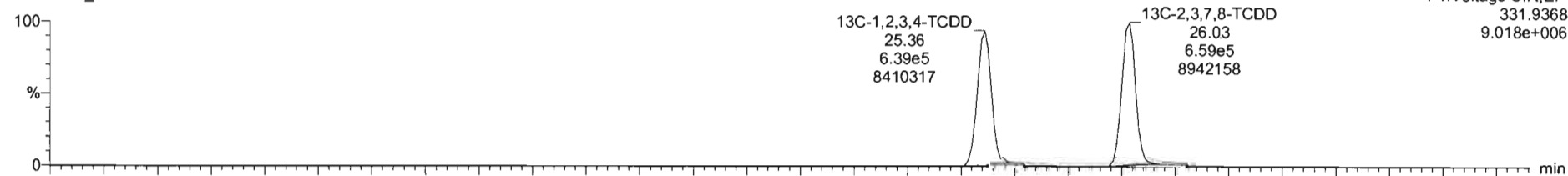


200429R2_2

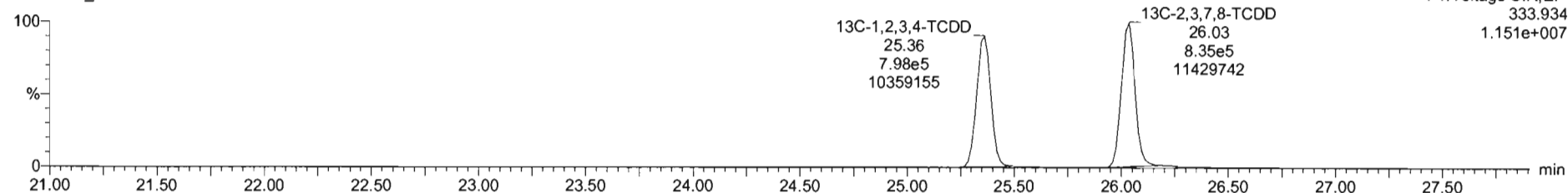


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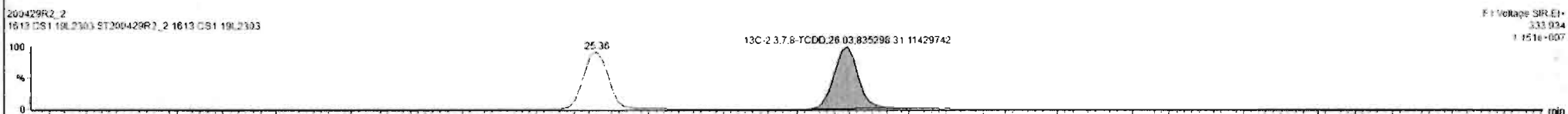
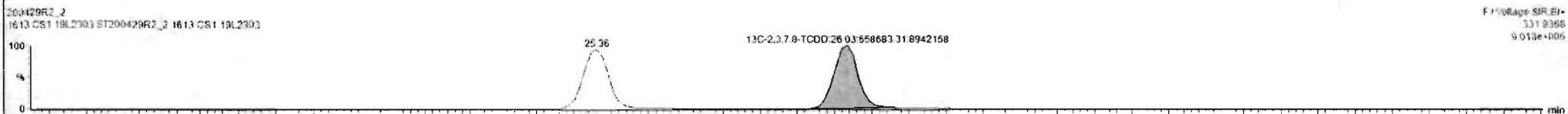
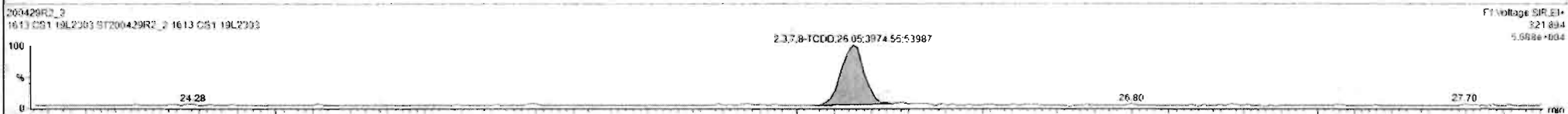
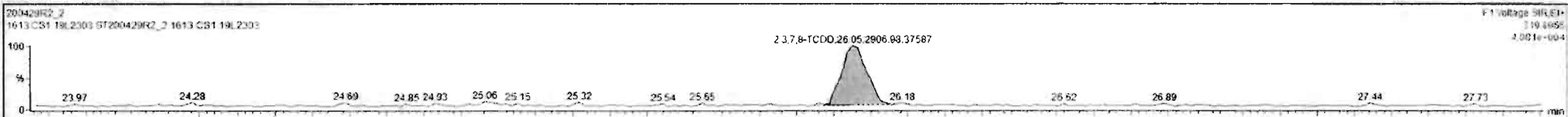
200429R2_2



200429R2_2



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
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2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8509e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.9692e5	2.500	-0.2	6.93	0.696	0.0602
7	OCDD	41.25	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2156e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8524e4	1.6515e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.183	NO	2.3827e4	1.0498e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	6.7735e5	2.500	-1.8	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4610e6	5.000	-2.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2_2

CAP NUM

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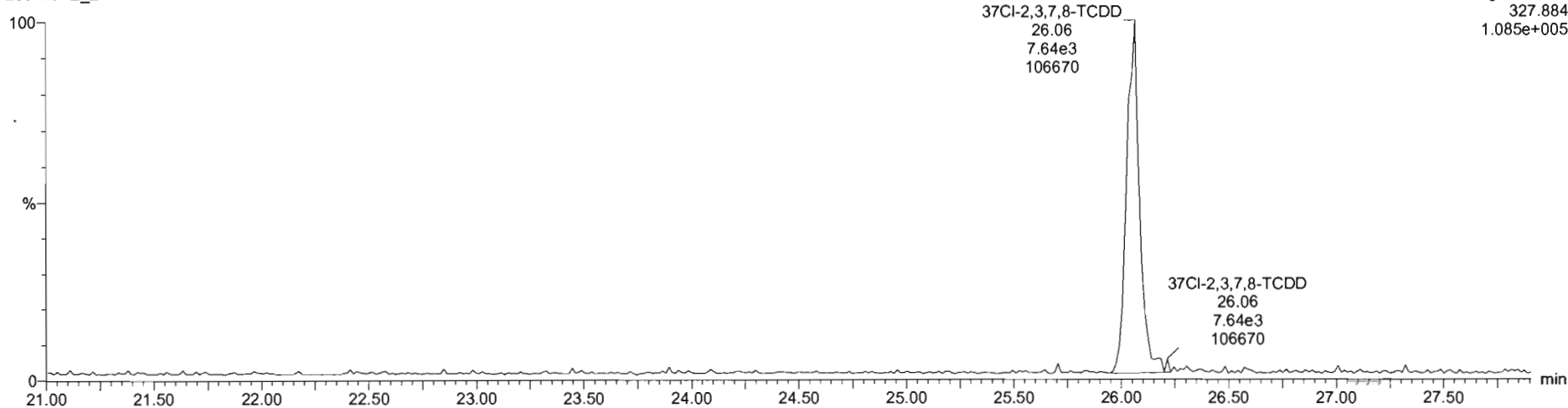
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37Cl-2,3,7,8-TCDD

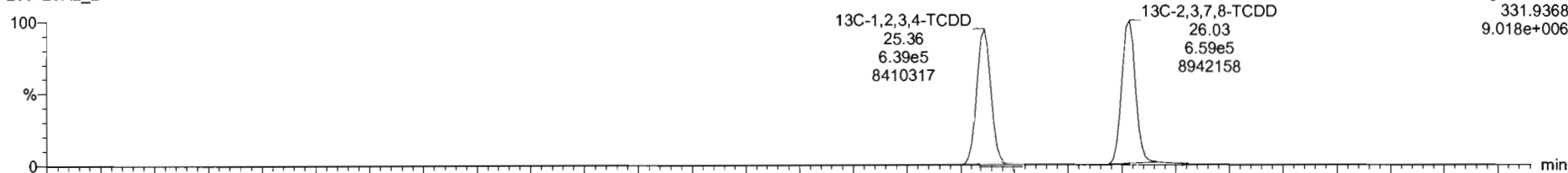
200429R2_2



F1:Voltage SIR,EI+
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1.085e+005

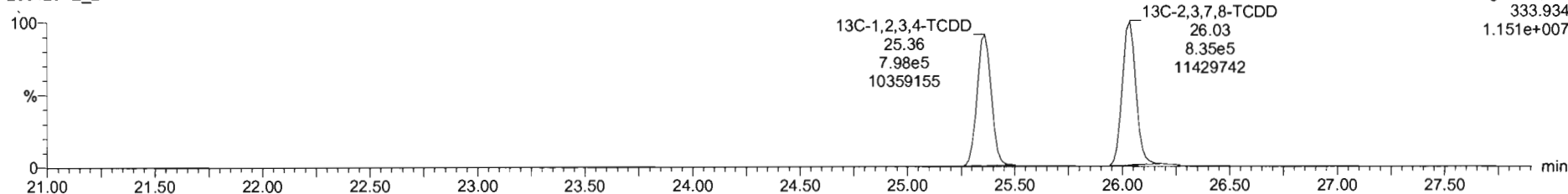
13C-1,2,3,4-TCDD

200429R2_2



F1:Voltage SIR,EI+
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9.018e+006

200429R2_2



F1:Voltage SIR,EI+
333.934
1.151e+007

Dataset: Untitled

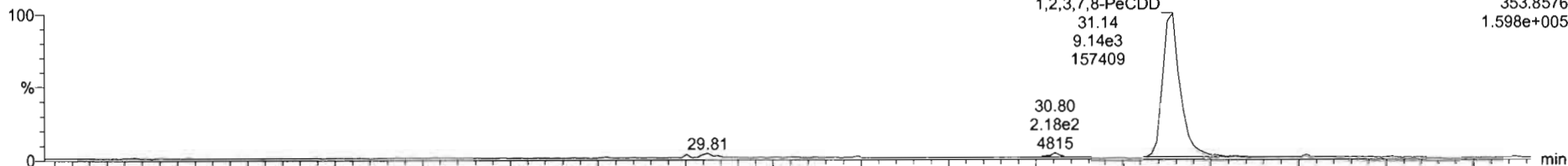
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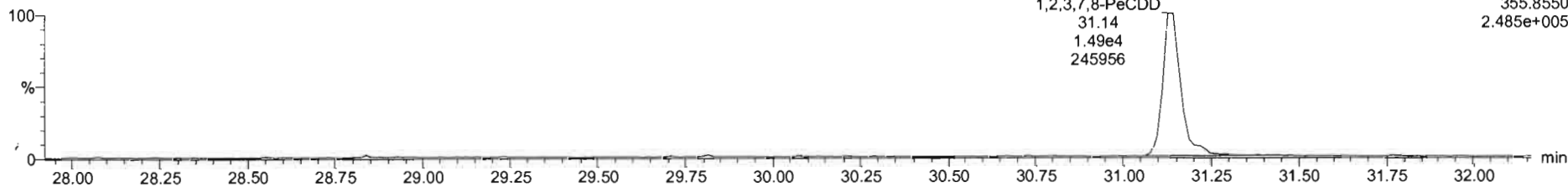
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1,2,3,7,8-PeCDD

200429R2_2

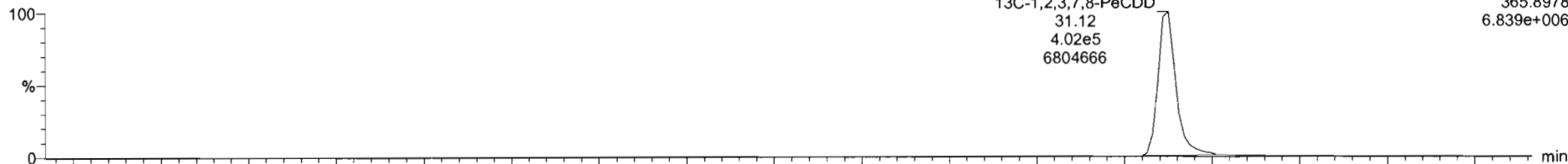


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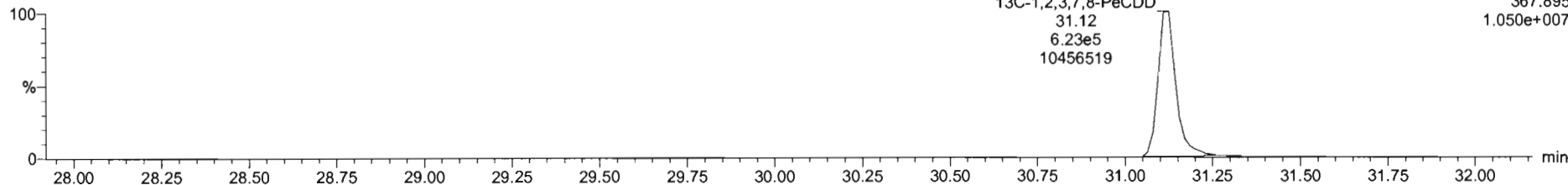


13C-1,2,3,7,8-PeCDD

200429R2_2



200429R2_2



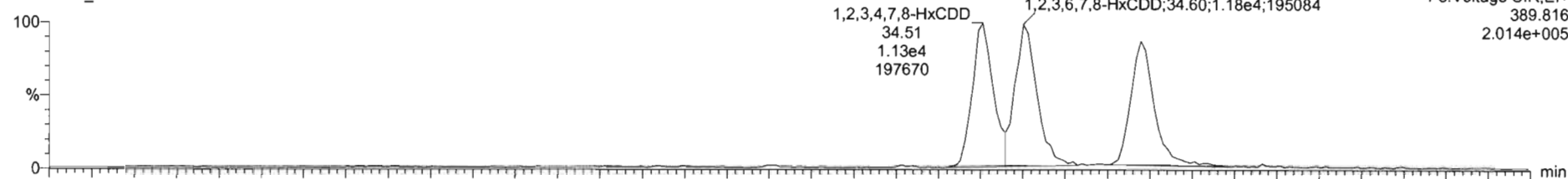
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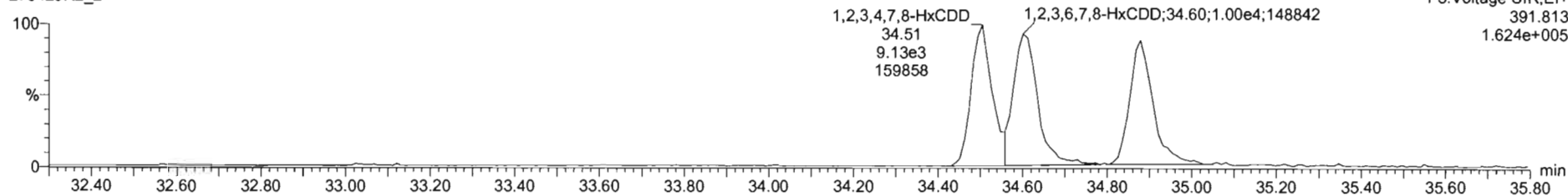
1,2,3,4,7,8-HxCDD

200429R2_2



F3: Voltage SIR, EI+
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2.014e+005

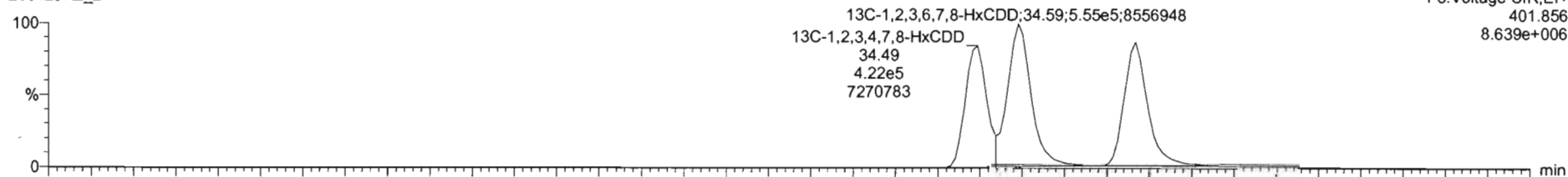
200429R2_2



F3: Voltage SIR, EI+
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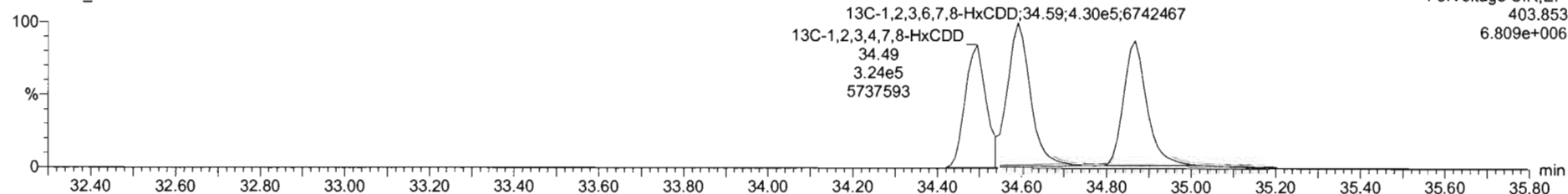
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200429R2_2

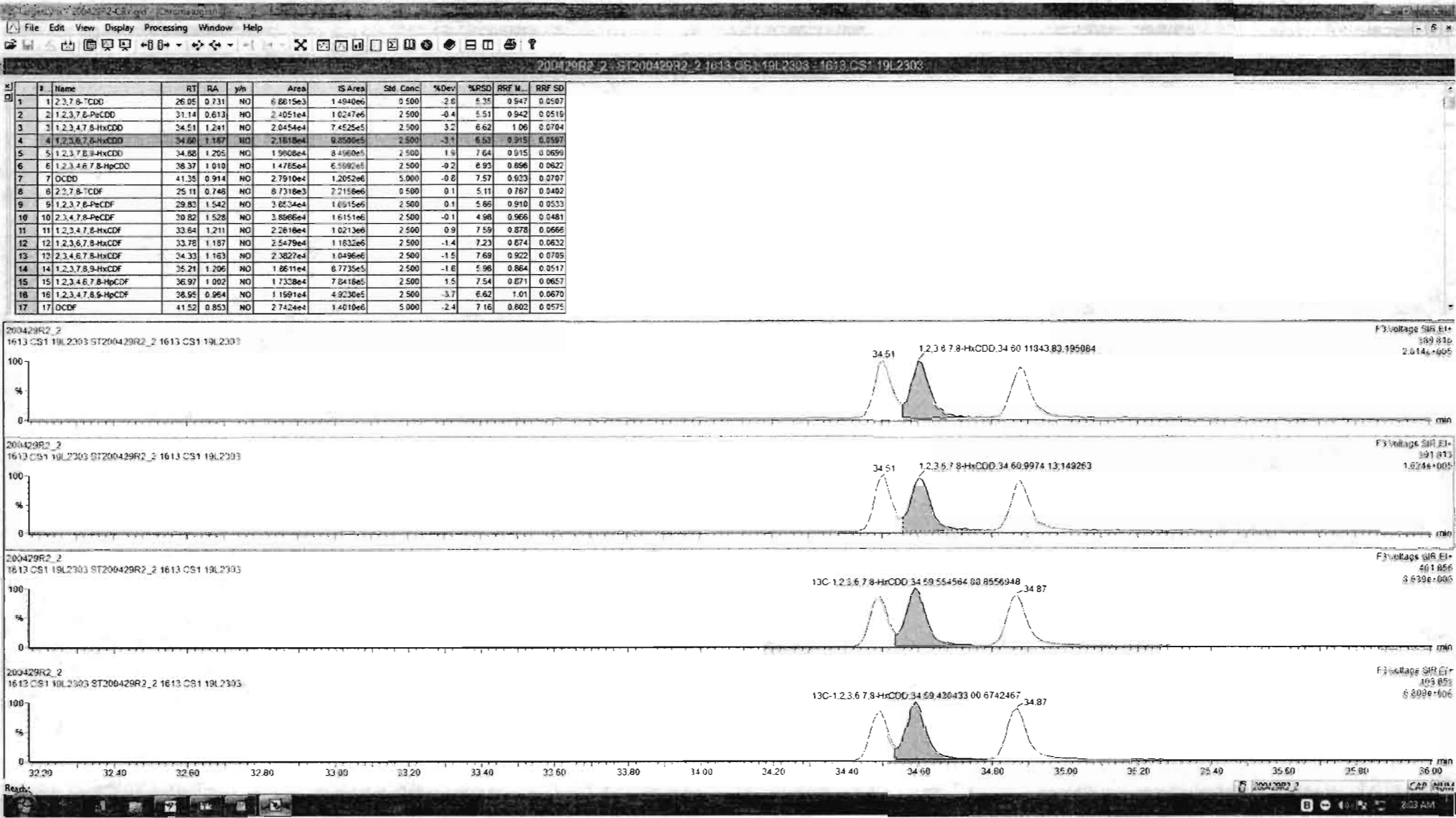


F3: Voltage SIR, EI+
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8.639e+006

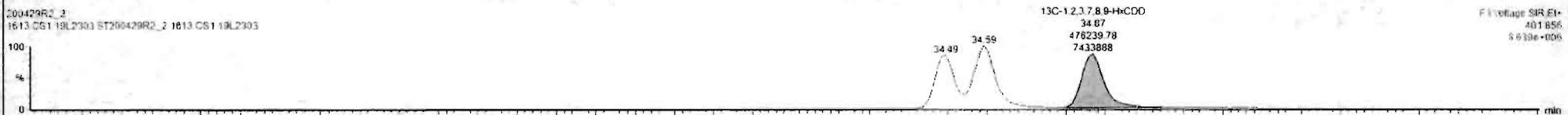
200429R2_2



F3: Voltage SIR, EI+
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6.809e+006



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8815e3	1.4840e0	0.500	-2.6	5.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	-0.4	5.51	0.942	0.0510
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.187	NO	2.1610e4	9.9500e5	2.500	-3.1	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.225	NO	1.9020e4	8.4500e5	2.500	1.9	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4765e4	6.5982e5	2.500	-0.2	6.93	0.856	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.746	NO	8.7318e3	2.2180e0	0.500	0.1	5.11	0.787	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.542	NO	3.8524e4	1.6915e6	2.500	0.1	5.86	0.910	0.0523
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.674	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	1.0	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.95	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



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Dataset: Untitled

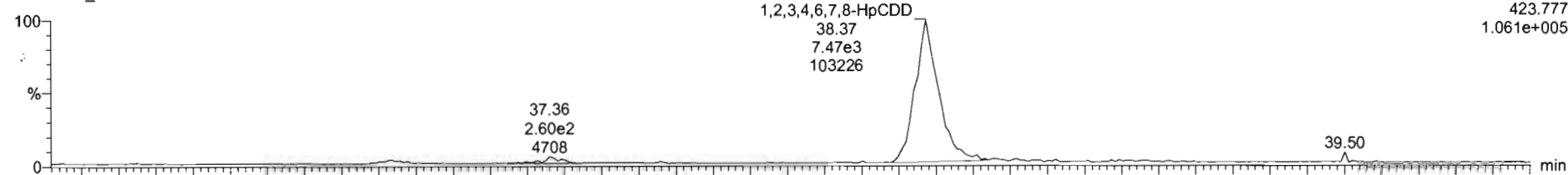
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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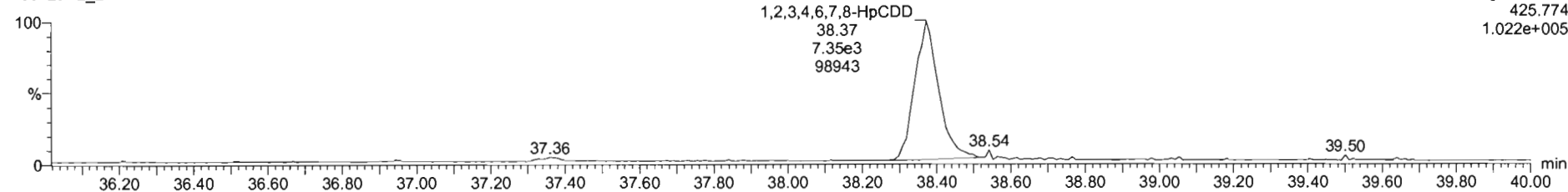
1,2,3,4,6,7,8-HpCDD

200429R2_2



F4:Voltage SIR,EI+
423.777
1.061e+005

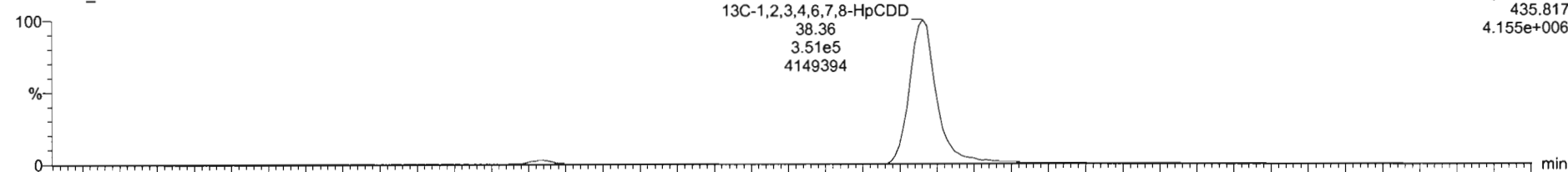
200429R2_2



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1.022e+005

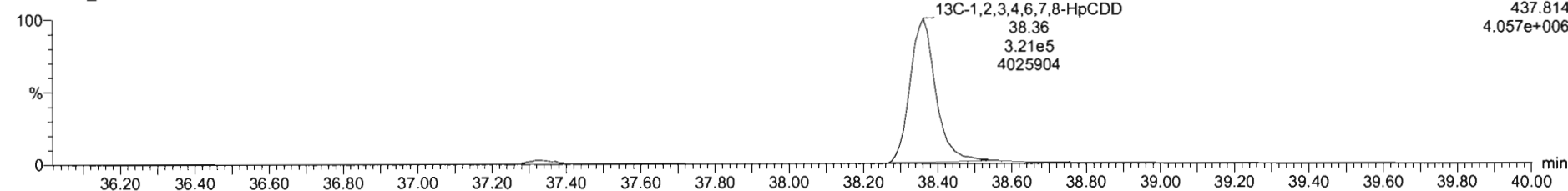
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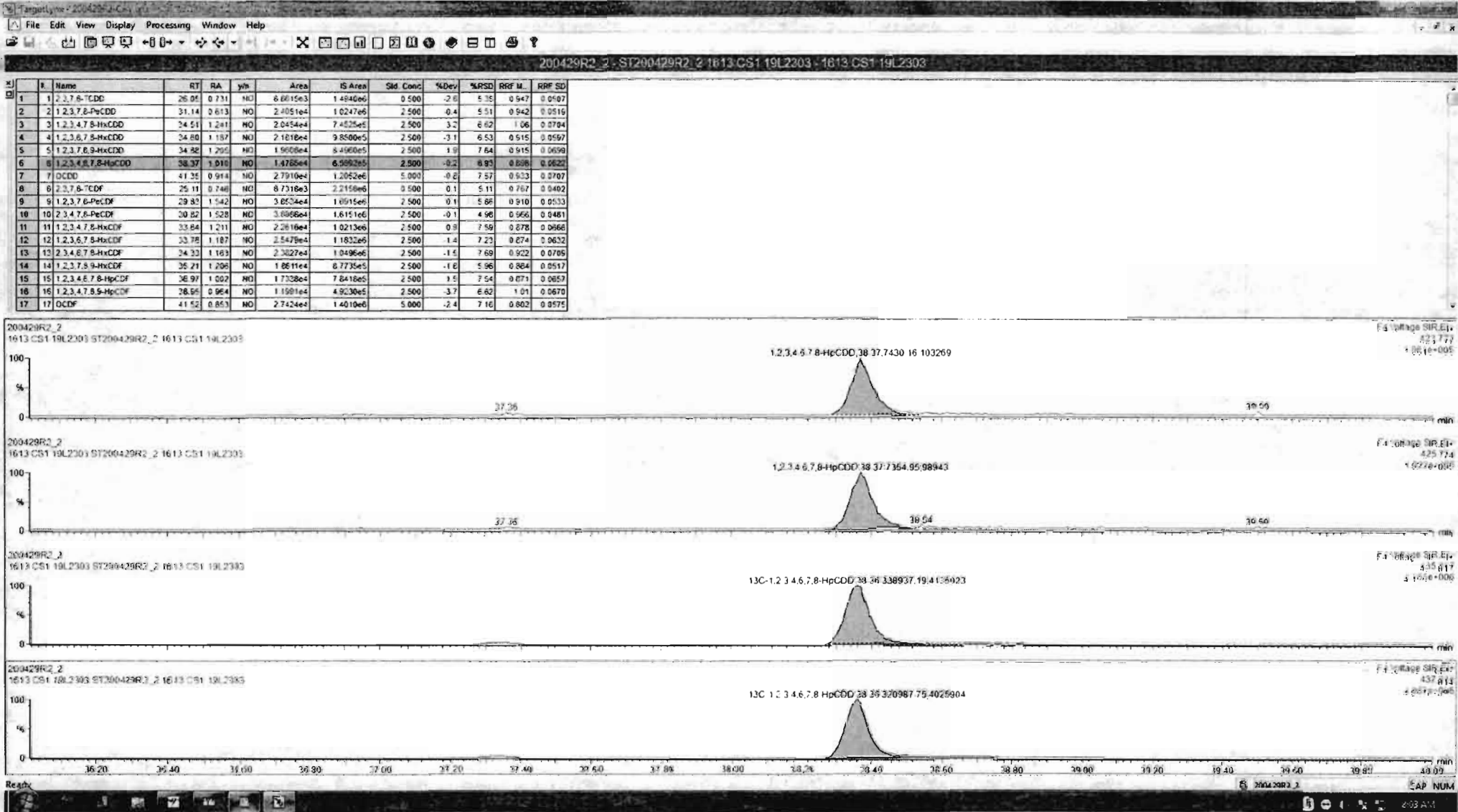


F4:Voltage SIR,EI+
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4.155e+006

200429R2_2



F4:Voltage SIR,EI+
437.814
4.057e+006



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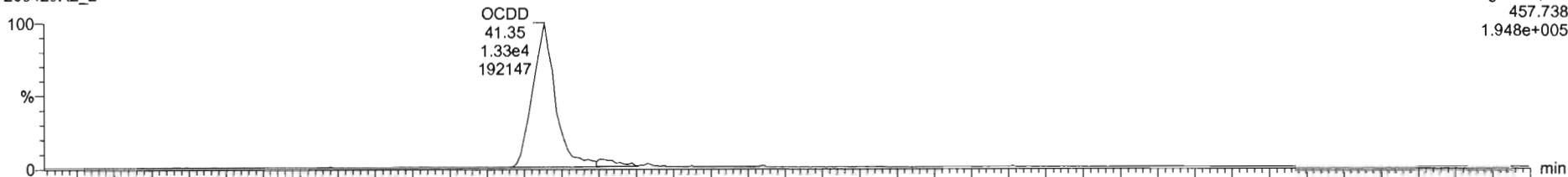
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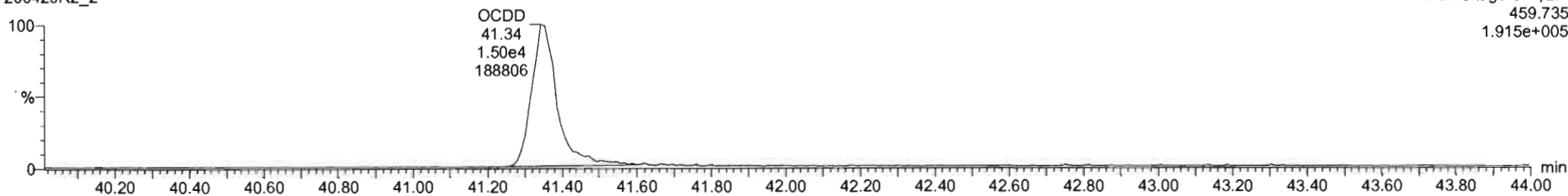
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OCDD

200429R2_2

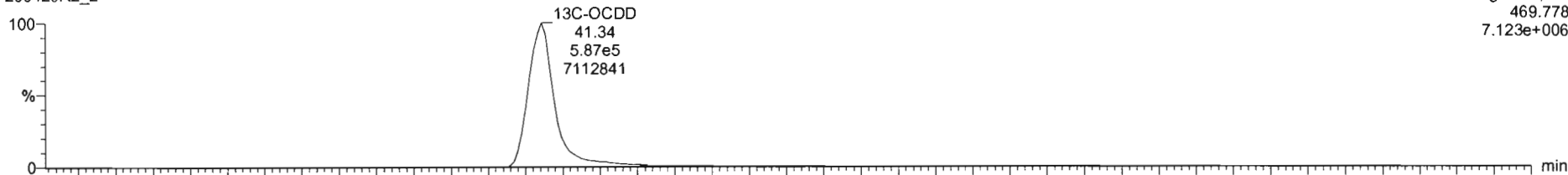


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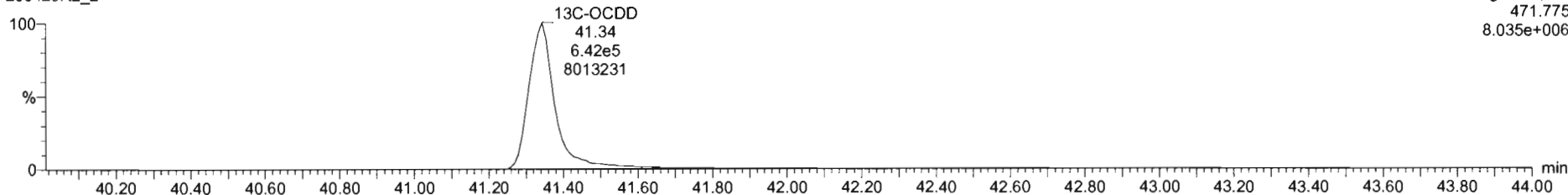


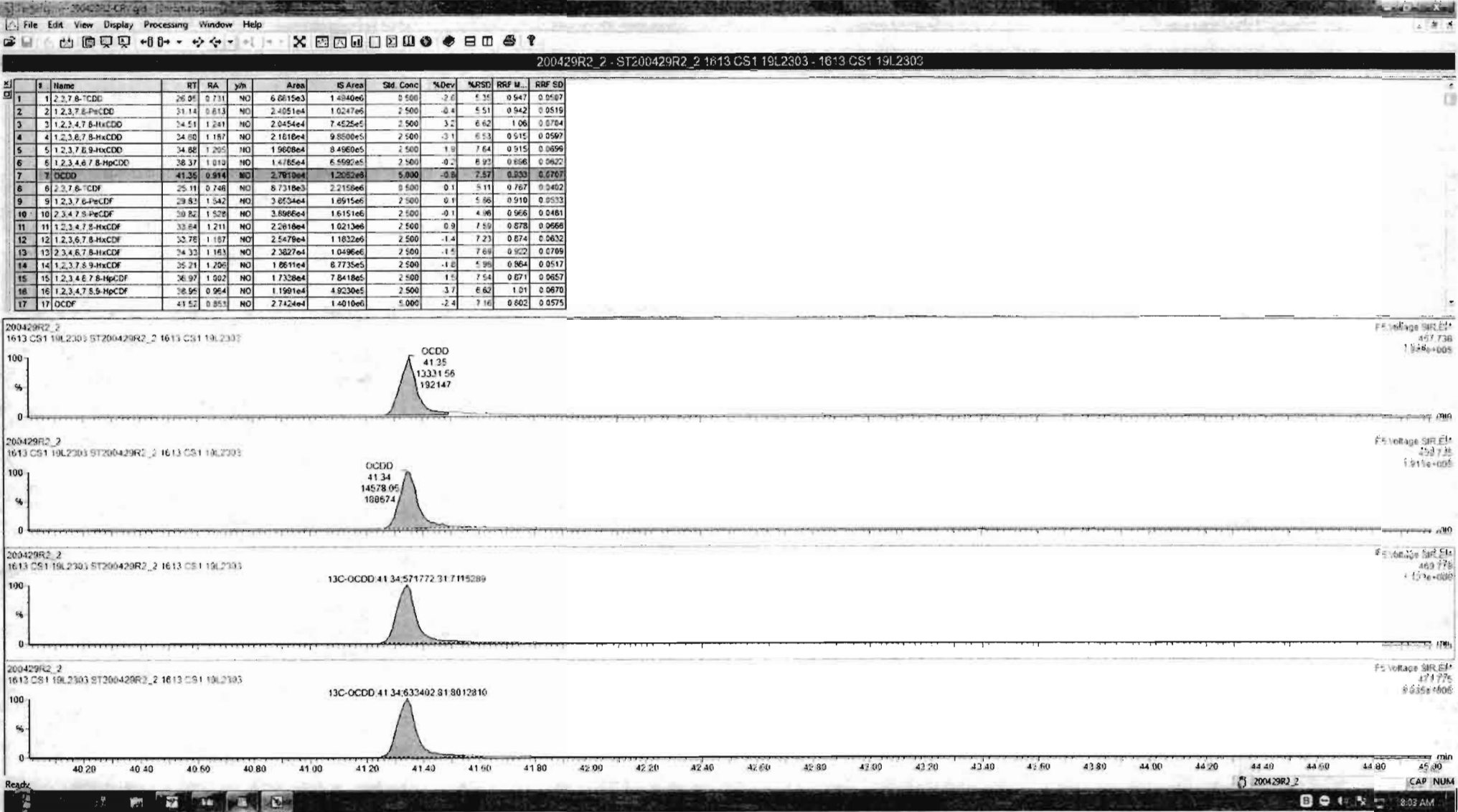
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200429R2_2



200429R2_2





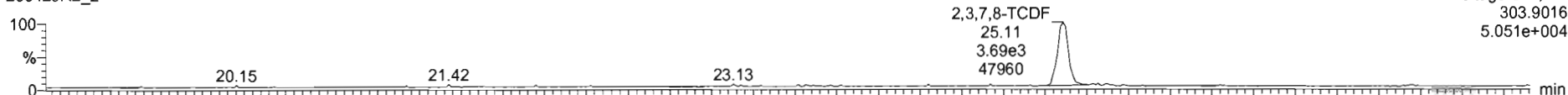
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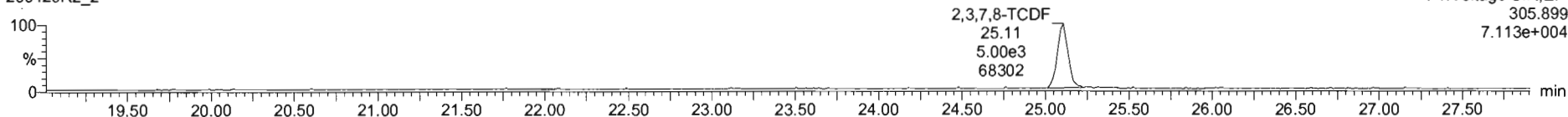
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2,3,7,8-TCDF

200429R2_2

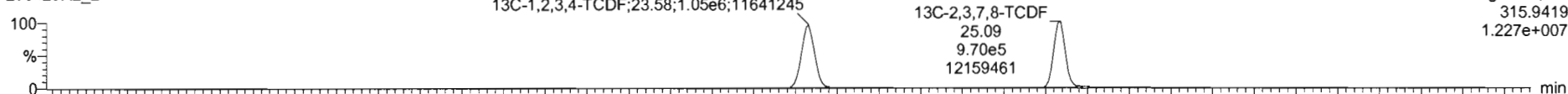


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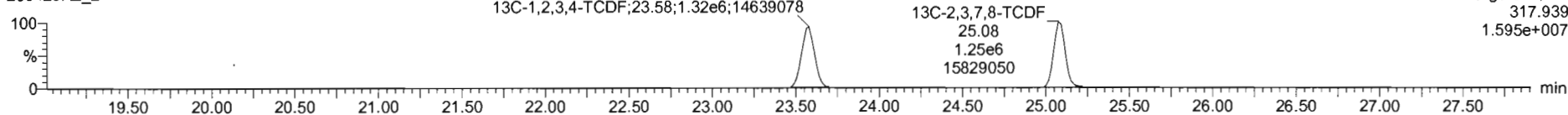


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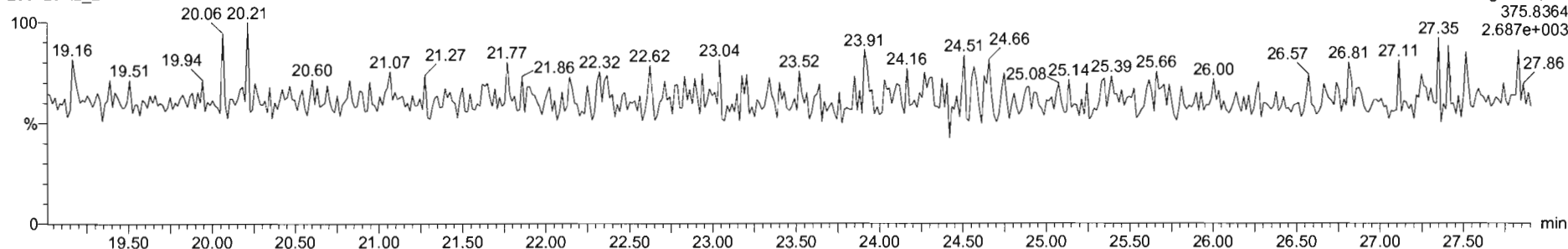


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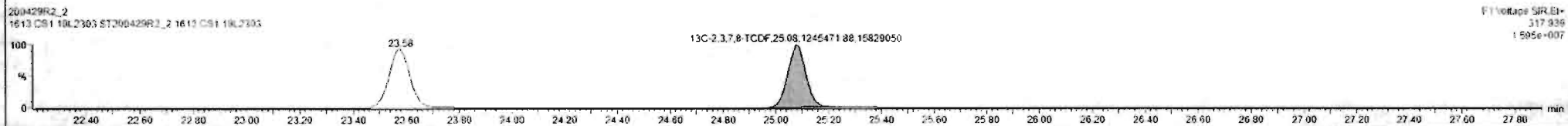
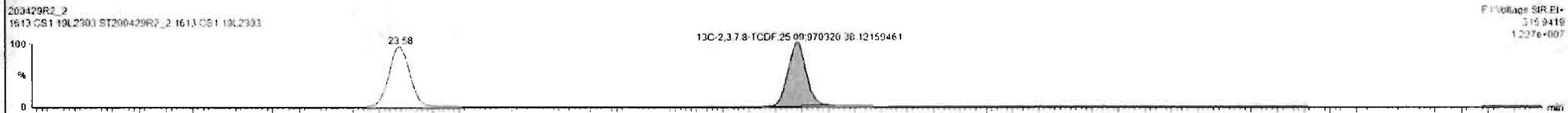
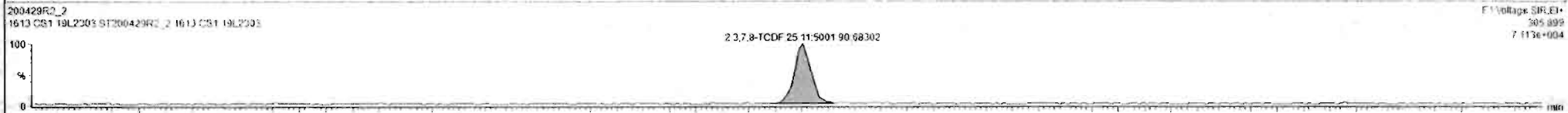
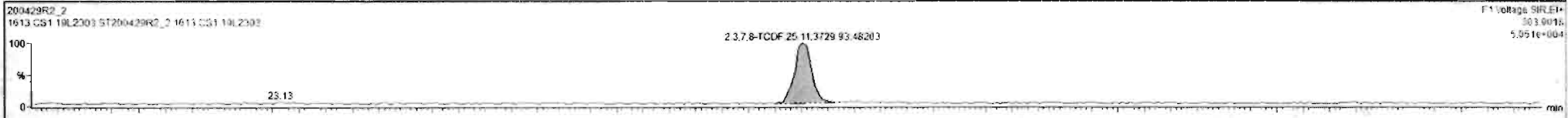


DPE1

200429R2_2



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1 2,3,7,8-TCDD	25.05	0.731	NO	6.6615e3	1.4940e6	0.500	-2.6	5.35	0.947	0.0507
2	2 1,2,3,7,8-PeCDD	31.14	0.813	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	3 1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	4 1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.5006e5	2.500	-3.1	6.53	0.915	0.0597
5	5 1,2,3,7,8,9-HxCDD	34.98	1.205	NO	1.9808e4	8.4909e5	2.500	1.9	7.64	0.915	0.0699
6	6 1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4785e4	6.5902e5	2.500	-0.2	6.37	0.856	0.0622
7	7 OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.523	0.0707
8	8 2,3,7,8-TCDF	25.11	0.746	NO	8.7518e3	2.2158e6	0.500	0.1	5.11	0.787	0.0462
9	9 1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6554e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	10 2,3,4,7,8-PeCDF	30.82	1.628	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	11 1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2610e4	1.0213e6	2.500	0.9	7.19	0.878	0.0666
12	12 1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1622e6	2.500	-1.4	7.23	0.874	0.0632
13	13 2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	14 1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	15 1,2,3,4,6,7,8-HpCDF	38.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	16 1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	17 OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



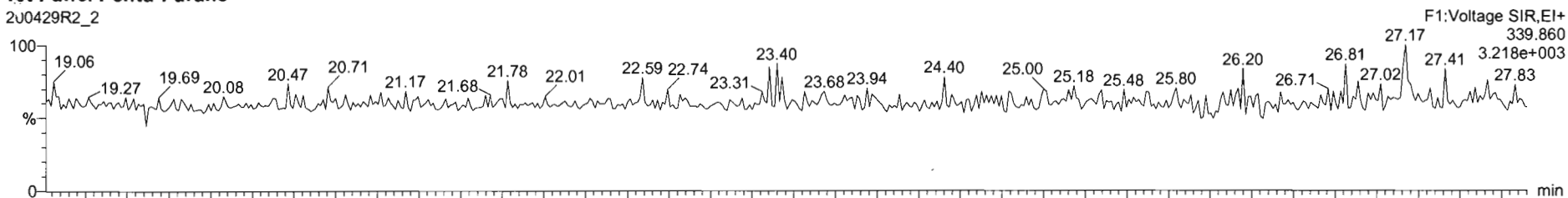
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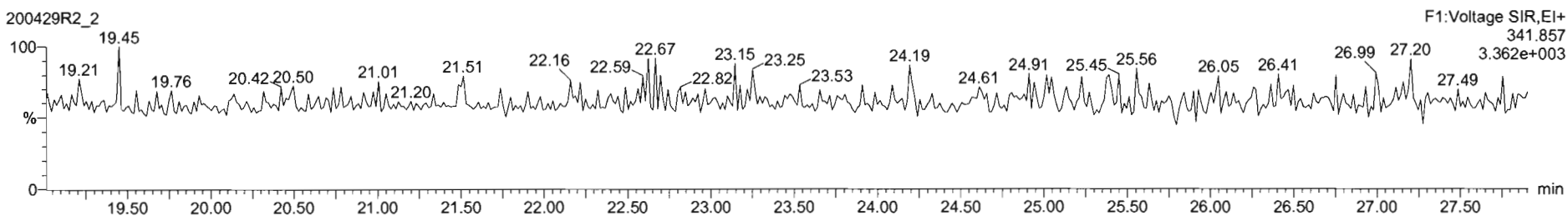
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1st Func. Penta-Furans

2U0429R2_2

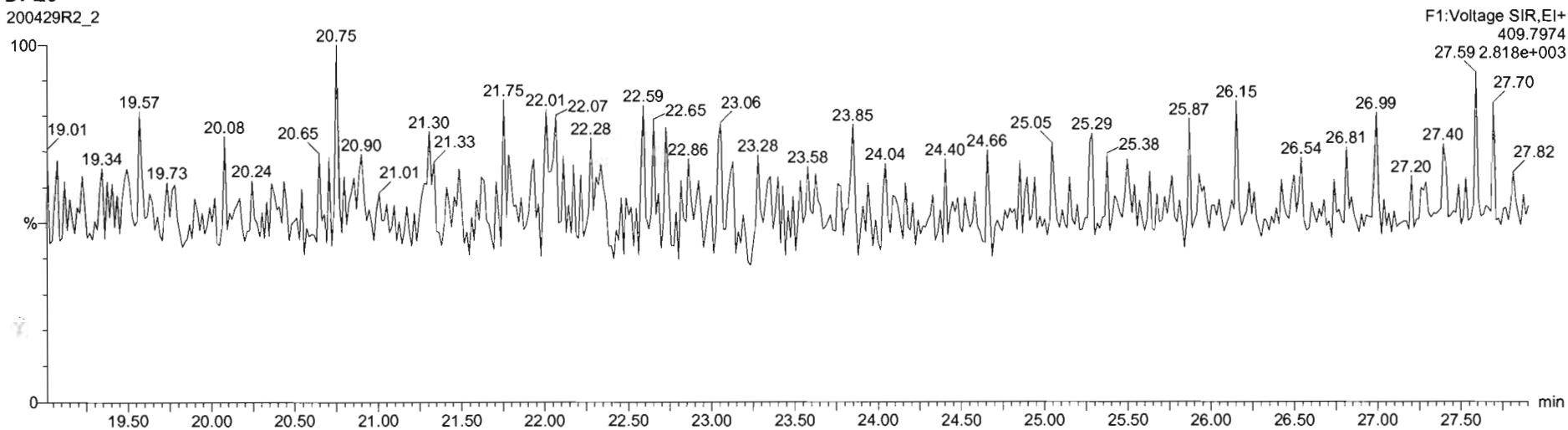


200429R2_2



DPE6

200429R2_2



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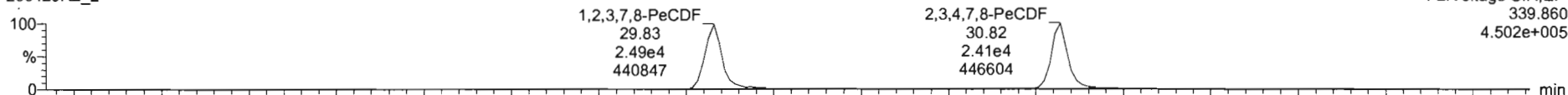
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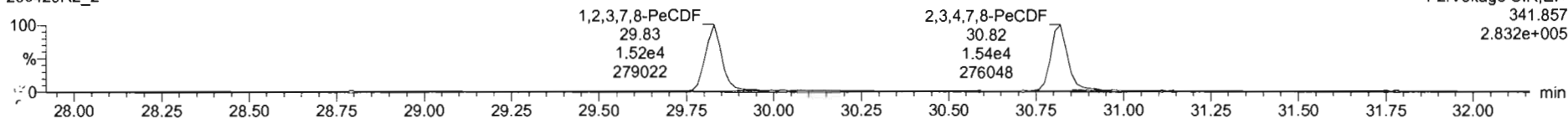
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1,2,3,7,8-PeCDF

200429R2_2

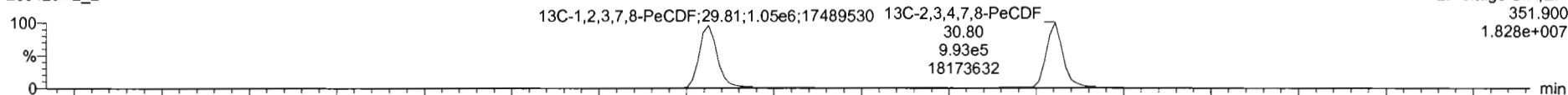


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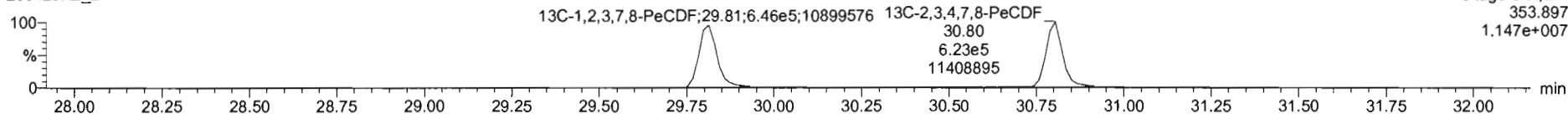


13C-1,2,3,7,8-PeCDF

200429R2_2

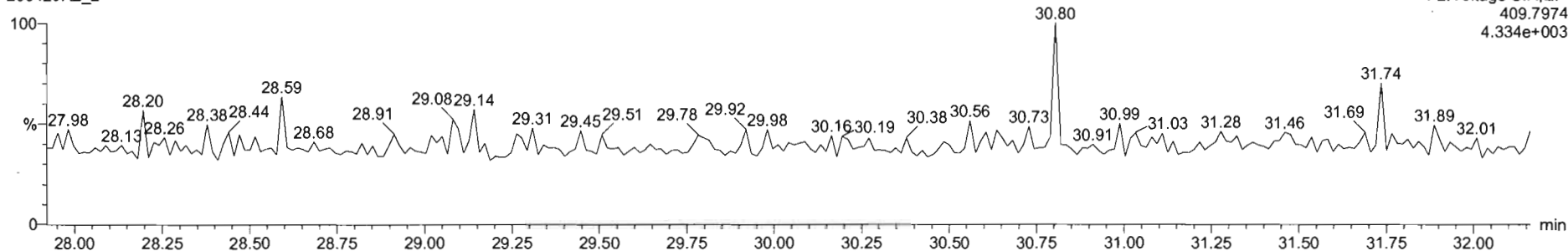


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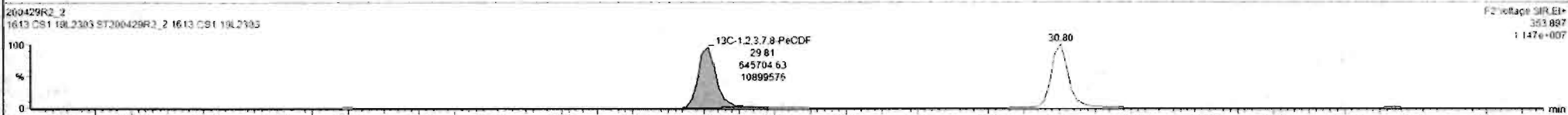
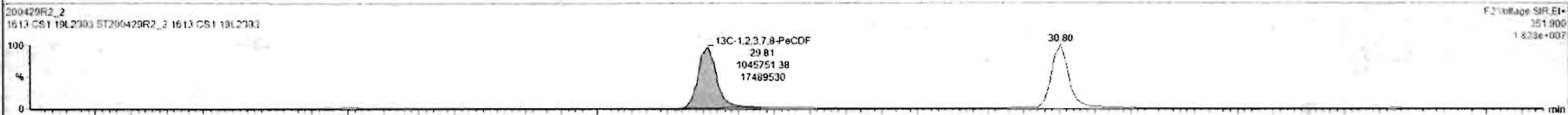
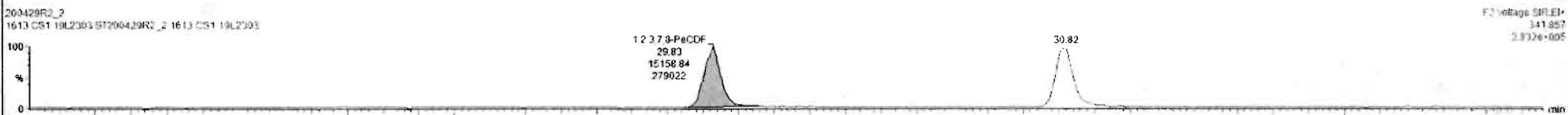


DPE2

200429R2_2



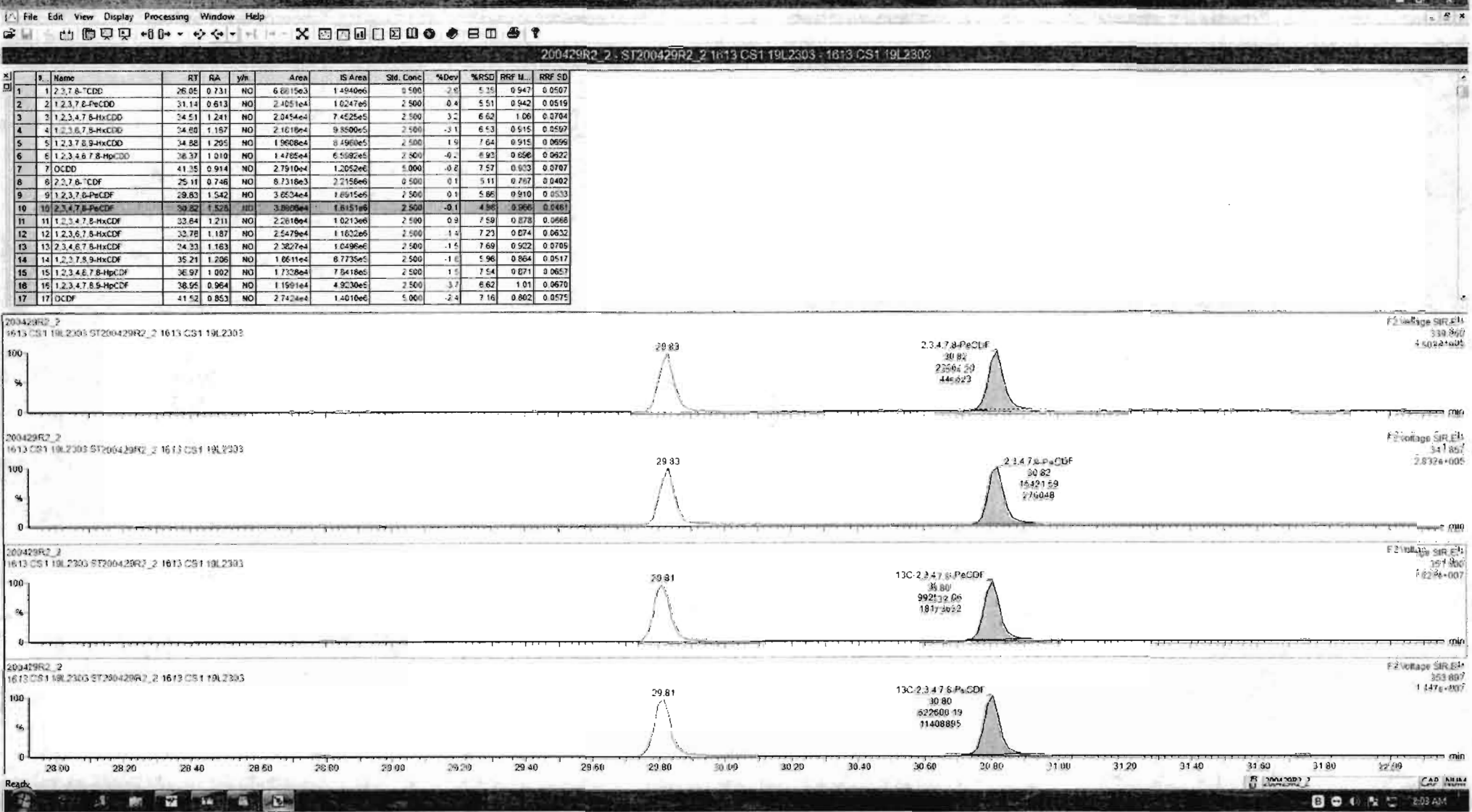
#	Name	RT	RA	ym	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	28.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.8	5.37	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	0.4	5.51	0.942	0.0515
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,7,8,9-HxCDD	34.80	1.187	NO	2.1810e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDF	34.88	1.295	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.856	0.0620
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.8	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	8.7310e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6534e4	1.6815e6	2.500	0.1	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.82	1.328	NO	3.8066e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	32.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.183	NO	2.5827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	6.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.653	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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200429R2_2 CAP NUM

8:03 AM

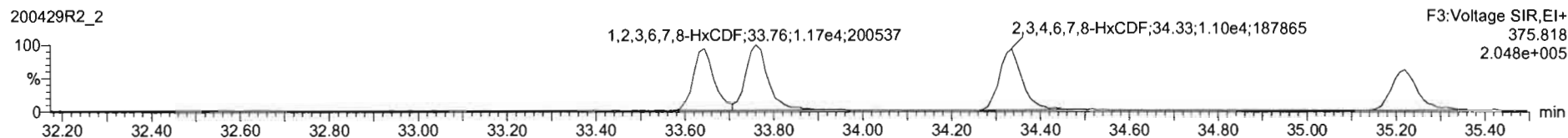
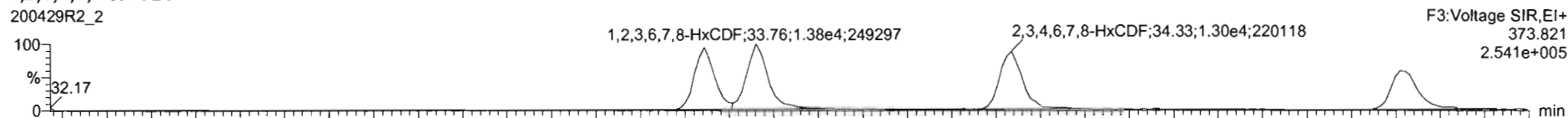


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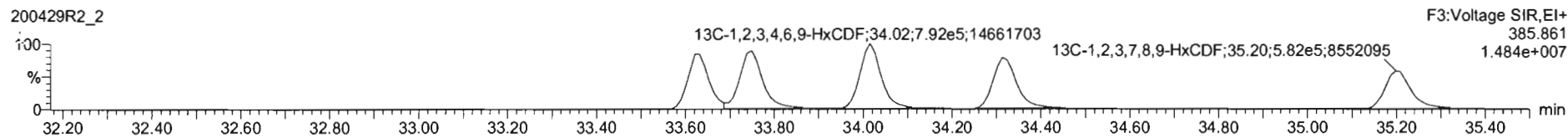
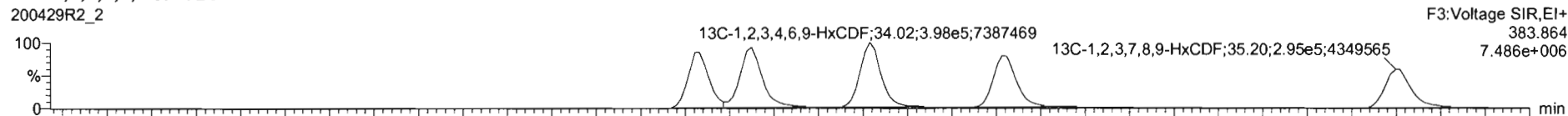
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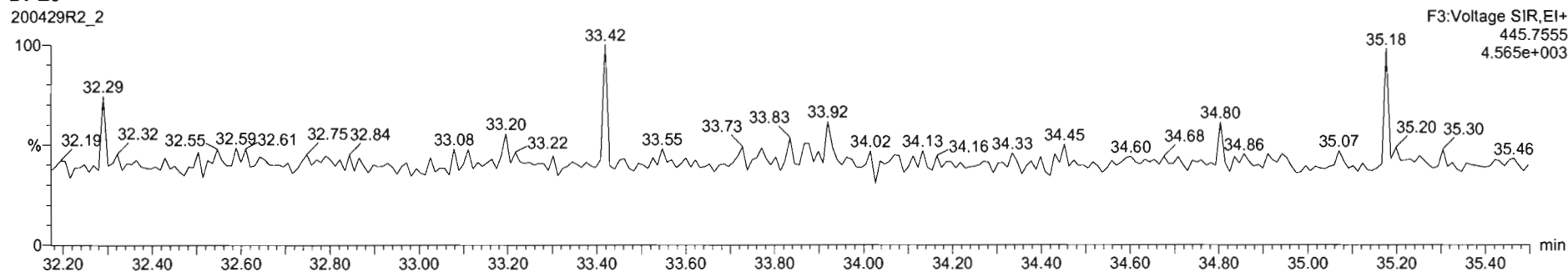
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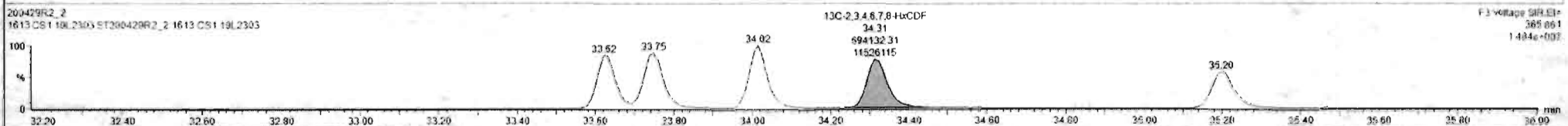
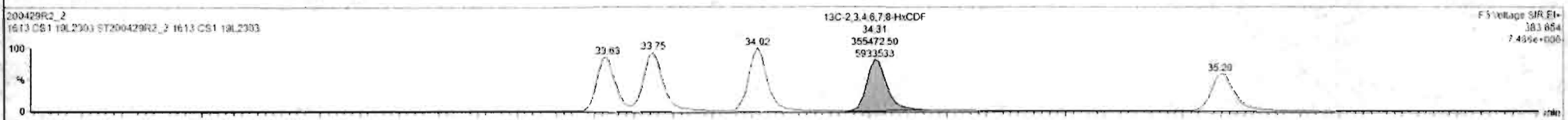
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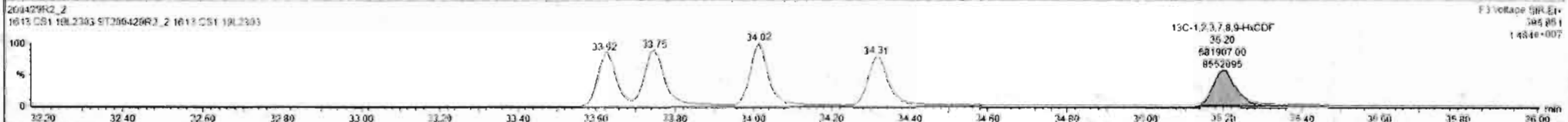
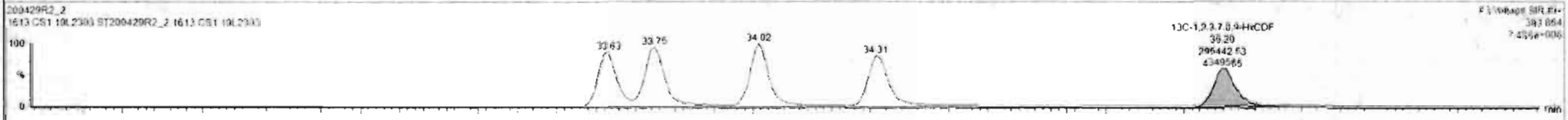
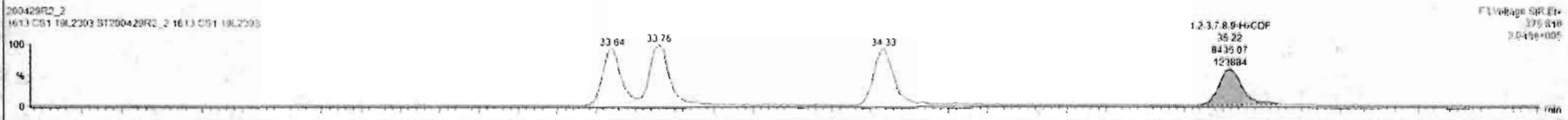
DPE3



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e5	2.500	0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.187	NO	2.1618e4	9.8000e5	2.500	-2.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.80	1.205	NO	1.9608e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.856	0.0622
7	OCDF	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	6.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0403
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6934e4	1.6915e6	2.500	0.1	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8966e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2810e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.187	NO	2.5479e4	1.1632e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0490e6	2.500	-1.5	7.69	0.822	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.9611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1991e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4540e6	0.500	-2.0	6.35	0.547	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.9454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.00	1.157	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.205	NO	1.9608e4	3.4560e5	2.500	1.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.896	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.0	7.57	0.923	0.0707
8	1,2,3,7,8-TCDF	25.11	0.748	NO	6.7310e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	29.82	1.528	NO	3.8666e4	1.6151e6	2.500	-0.1	4.90	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.0	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1032e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8071e4	8.7735e5	2.500	-1.0	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.6418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.964	NO	1.1991e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.802	0.0575



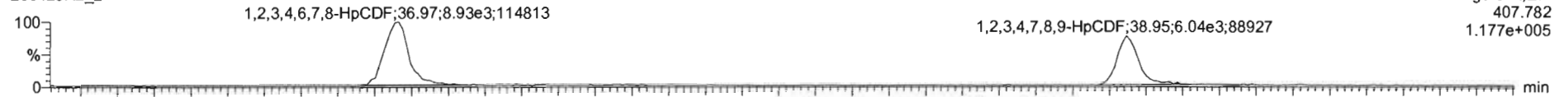
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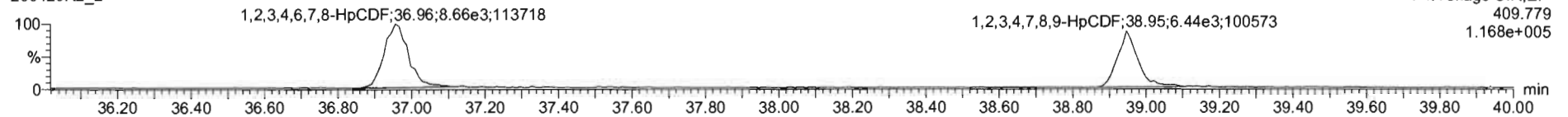
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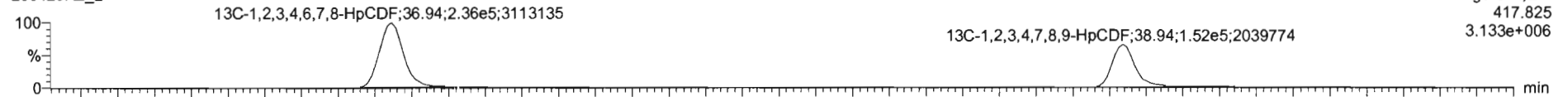


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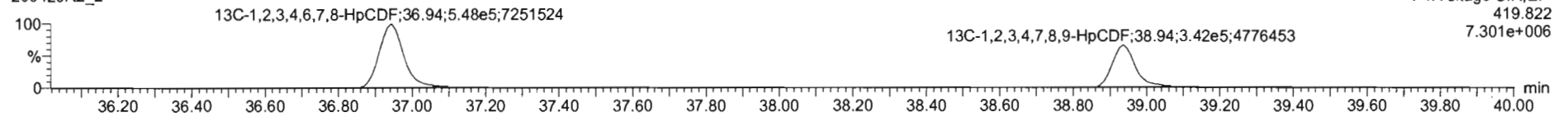


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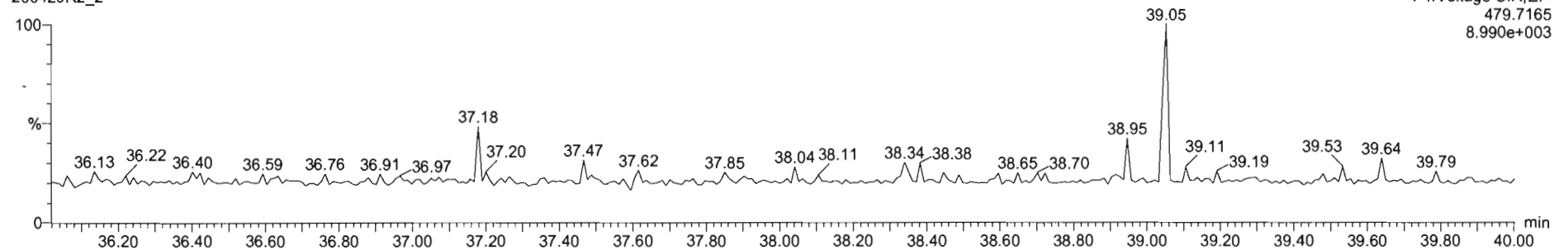


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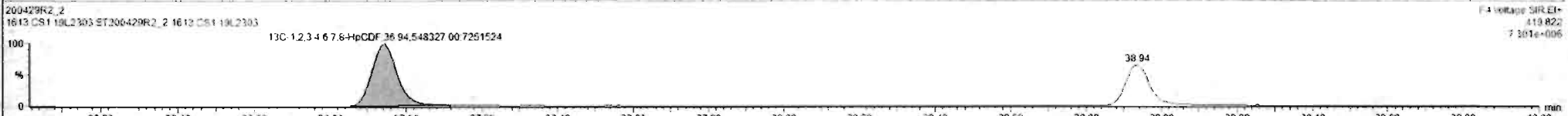
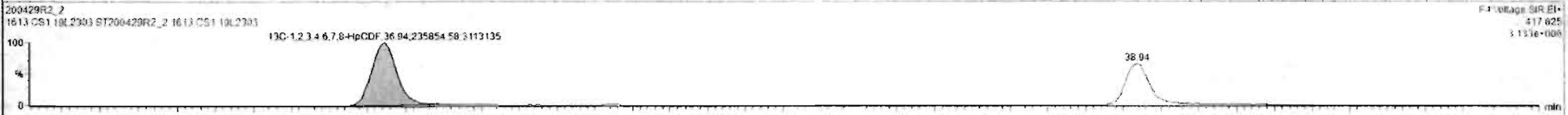
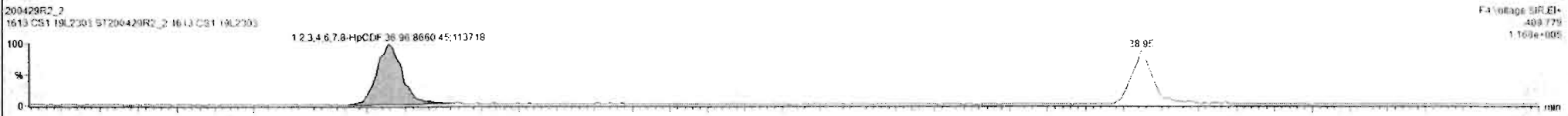


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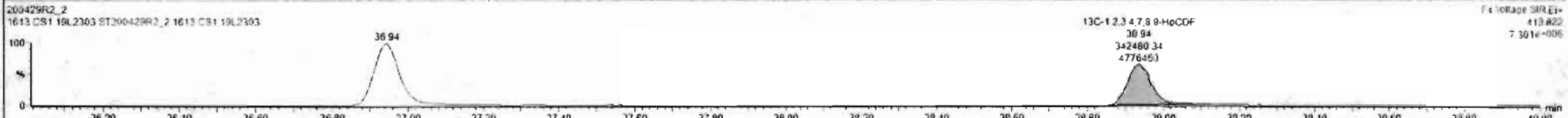
200429R2_2



#	Name	RT	RA	yln	Area	IS Area	Std. Conc	%Dev	MRSD	RRF U	RRF SD
1	1,2,3,7,8-TCDF	26.95	0.731	NO	6.2615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDF	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.8454e4	7.4225e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.157	NO	2.1618e4	9.8600e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.92	1.203	NO	1.5608e4	8.4960e5	2.500	1.6	7.64	0.915	0.0698
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5992e5	2.500	-0.2	6.93	0.858	0.0622
7	OCDD	41.38	0.914	NO	2.7910e4	1.2052e6	0.000	-0.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7316e3	2.2158e6	0.500	0.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.0734e4	1.0915e6	2.500	0.1	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.628	NO	3.3686e4	1.6151e6	2.500	-0.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2616e4	1.0213e6	2.500	0.9	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	32.78	1.187	NO	2.5479e4	1.1822e6	2.500	-1.4	7.21	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8511e4	8.7735e5	2.500	-1.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.022	NO	1.7138e4	7.8412e5	2.500	1.5	7.54	0.871	0.0552
16	1,2,3,4,7,8,9-HpCDF	38.95	0.954	NO	1.1591e4	4.9230e5	2.500	3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.060	-2.4	7.16	0.862	0.0575



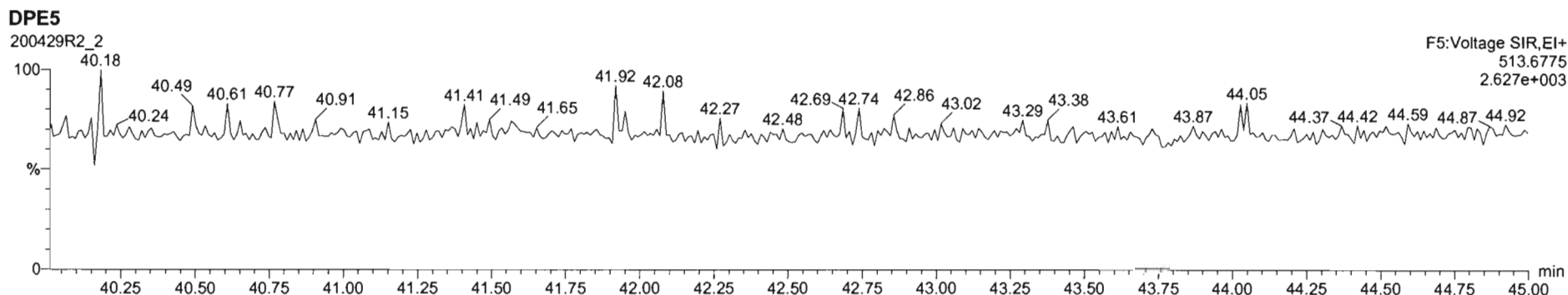
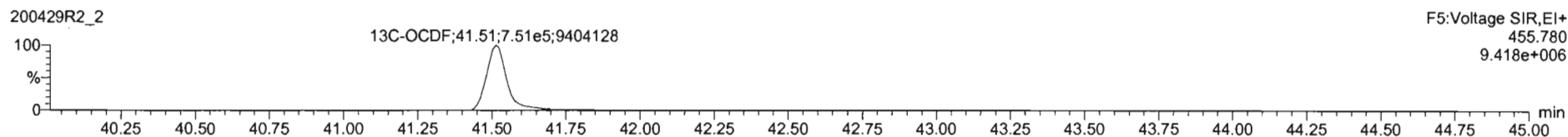
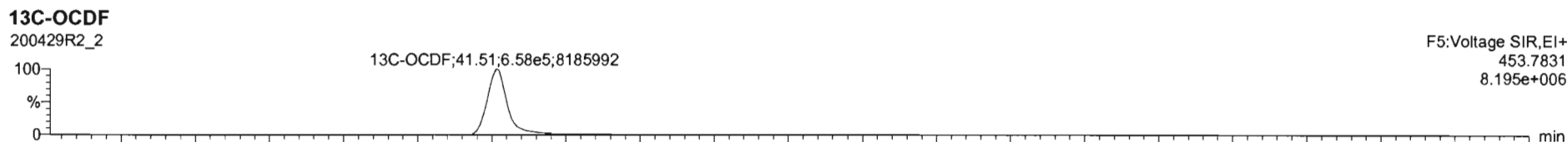
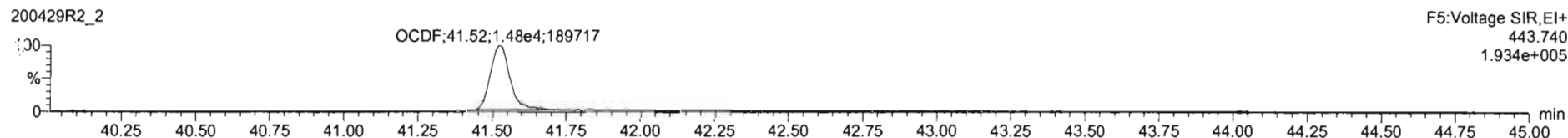
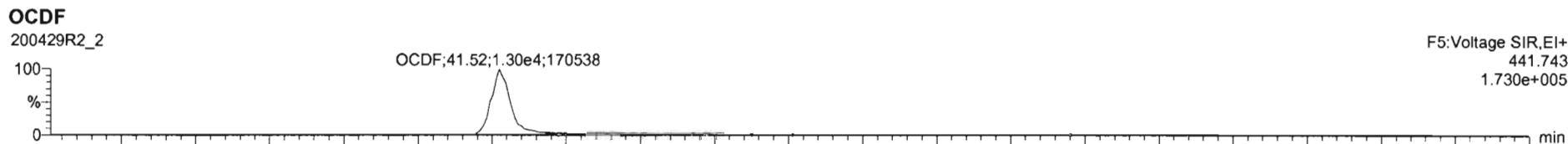
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.731	NO	6.8615e3	1.4940e6	0.500	-2.8	5.35	0.947	0.0107
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.42	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.89	1.187	NO	2.1818e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.295	NO	1.9688e4	3.4960e5	2.500	1.6	7.84	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	36.37	1.010	NO	1.4785e4	6.5990e5	2.500	-0.2	6.93	0.658	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.933	0.0707
8	2,3,7,8-TCDF	29.11	0.748	NO	8.7318e3	2.2158e6	0.500	0.1	5.11	0.757	0.0462
9	1,2,3,7,8-PeCDF	29.43	1.542	NO	3.6534e4	1.6915e6	2.500	0.1	5.62	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.528	NO	3.8986e4	1.6151e6	2.500	-0.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.211	NO	2.2818e4	1.0213e6	2.500	0.9	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.78	1.187	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.163	NO	2.3827e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.206	NO	1.8611e4	8.7735e5	2.500	-1.6	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7338e4	7.6418e5	2.500	1.5	7.54	0.871	0.0617
16	1,2,3,4,7,8,9-HpCDF	38.95	0.984	NO	1.1991e4	4.9238e5	2.500	-3.7	6.82	1.01	0.0679
17	OCDF	41.52	0.853	NO	2.7424e4	1.4010e6	5.000	-2.4	7.16	0.662	0.0575



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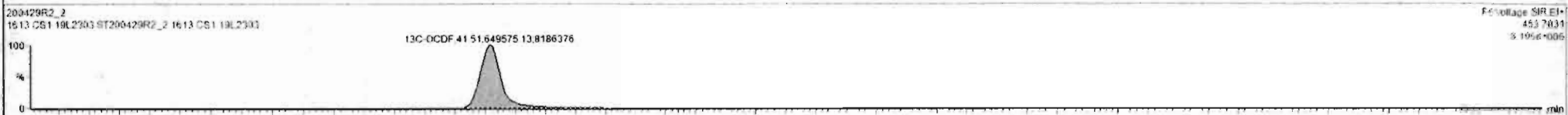
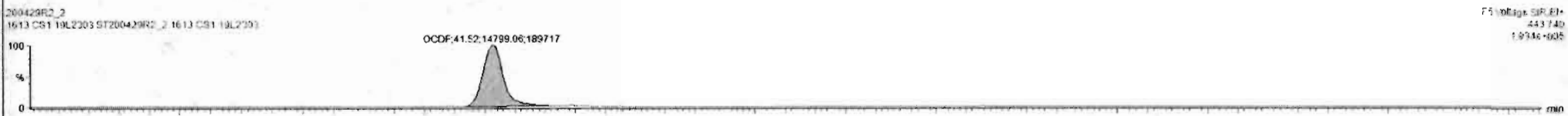
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200429R2_2 - ST200429R2_2 - 1613 CS1 19L2303 - 1613 CS1 19L2303

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	26.05	0.731	NO	6.8615e3	1.4840e6	0.500	-2.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.613	NO	2.4051e4	1.0247e6	2.500	-0.4	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.241	NO	2.0454e4	7.4525e5	2.500	3.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.197	NO	2.1618e4	9.8500e5	2.500	-3.1	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.205	NO	1.9808e4	8.4960e5	2.500	1.9	7.64	0.915	0.0696
6	1,2,3,4,6,7,8-HpCDD	38.37	1.010	NO	1.4765e4	6.5992e5	2.500	-0.2	6.93	0.696	0.0622
7	OCDD	41.35	0.914	NO	2.7910e4	1.2052e6	5.000	-0.2	7.57	0.633	0.0767
8	2,3,7,8-TCDF	25.11	0.746	NO	8.7310e3	2.2156e6	0.500	0.1	5.11	0.787	0.0462
9	1,2,3,7,8-PeCDF	29.83	1.542	NO	3.8754e4	1.6915e6	2.500	0.1	5.66	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.82	1.528	NO	3.8996e4	1.6151e6	2.500	-0.1	4.95	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.211	NO	2.2618e4	1.0213e6	2.500	0.9	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.197	NO	2.5479e4	1.1832e6	2.500	-1.4	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.163	NO	2.3227e4	1.0496e6	2.500	-1.5	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.205	NO	1.8611e4	8.7735e5	2.500	-1.6	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	1.002	NO	1.7328e4	7.8418e5	2.500	1.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.55	0.954	NO	1.1591e4	4.9230e5	2.500	-3.7	6.62	1.01	0.0670
17	OCDF	41.52	0.883	NO	2.7424e4	1.4010e6	5.000	-2.4	7.18	0.802	0.0573

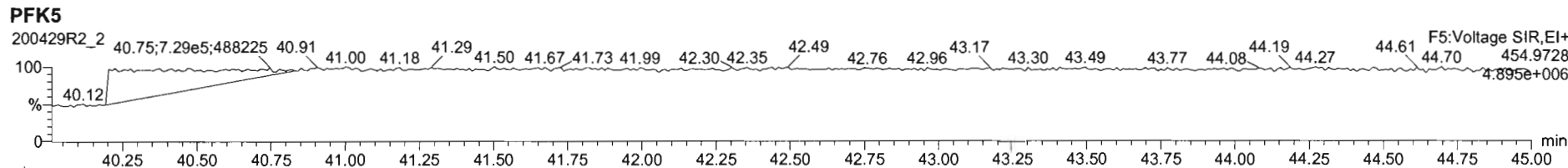
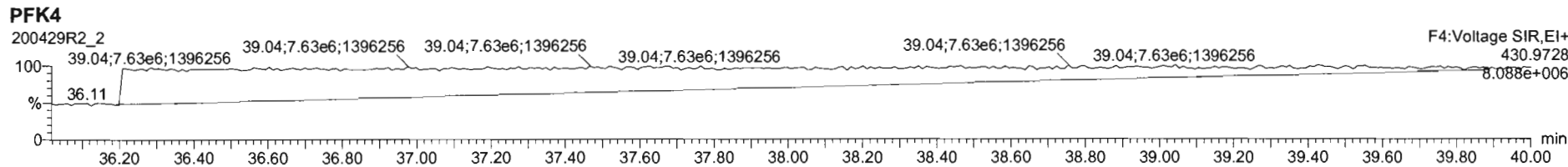
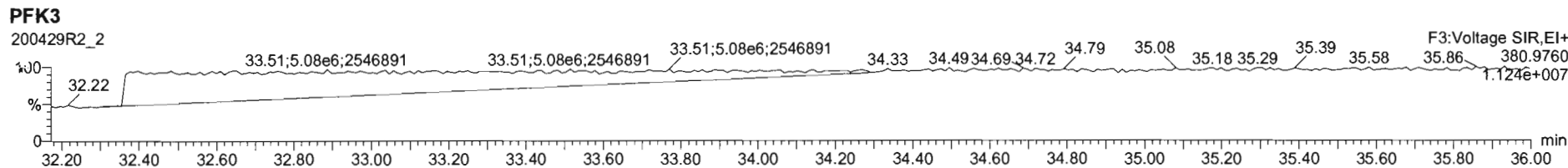
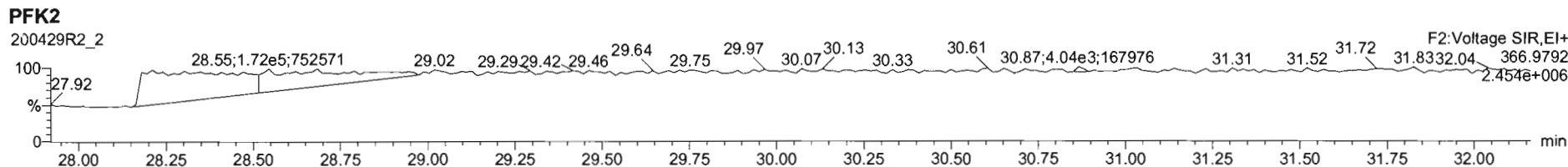
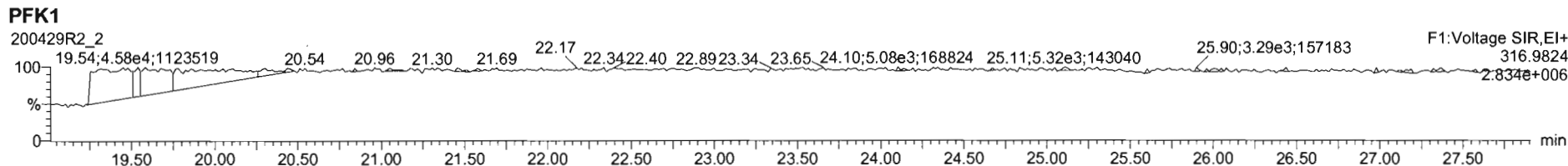


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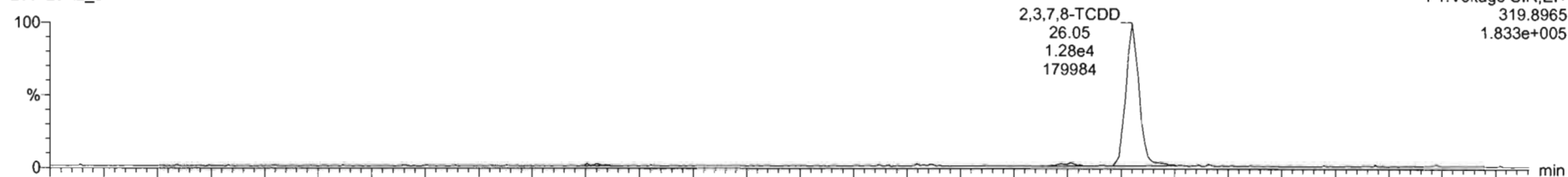
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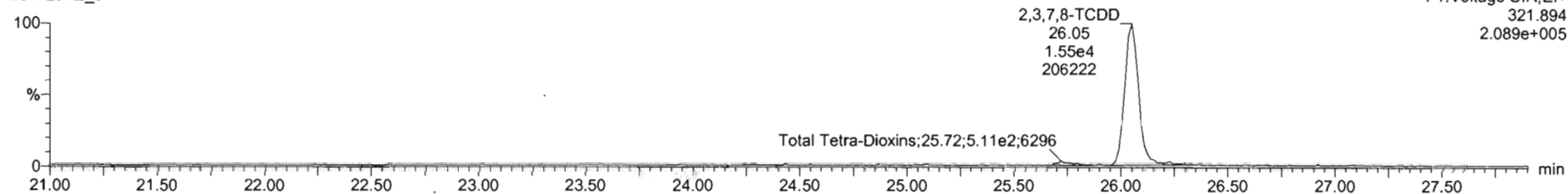
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2,3,7,8-TCDD

200429R2_3

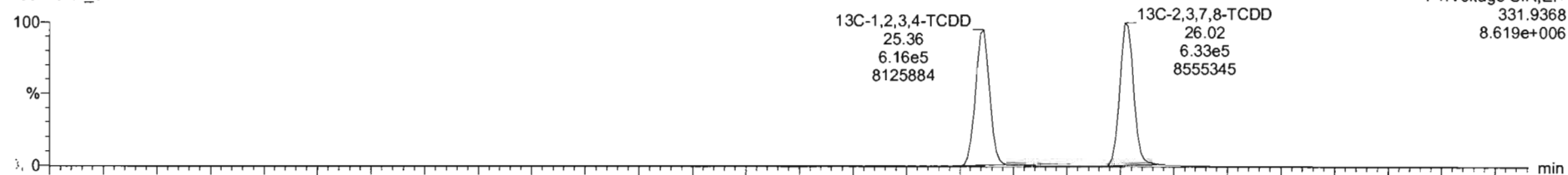


200429R2_3

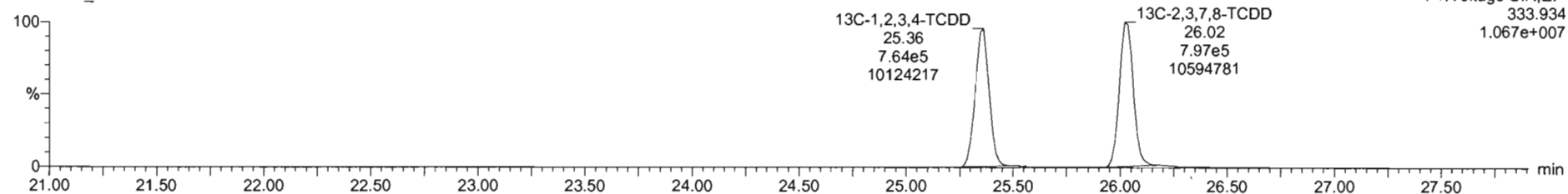


13C-2,3,7,8-TCDD

200429R2_3

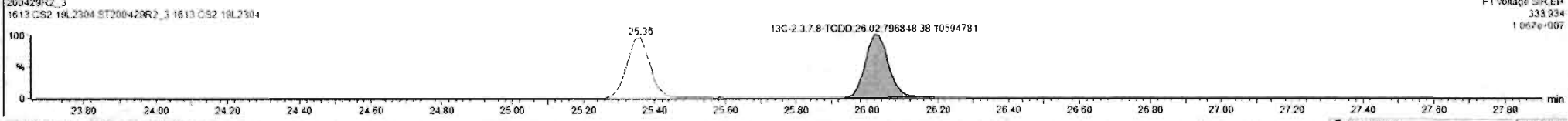
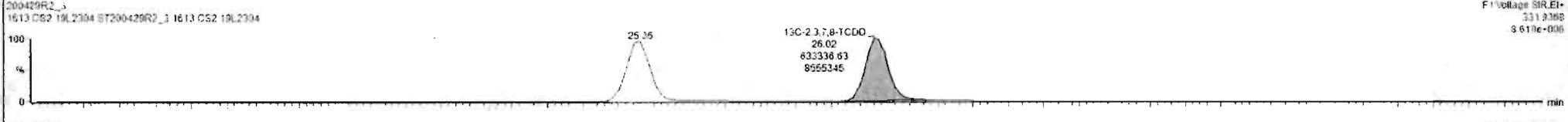
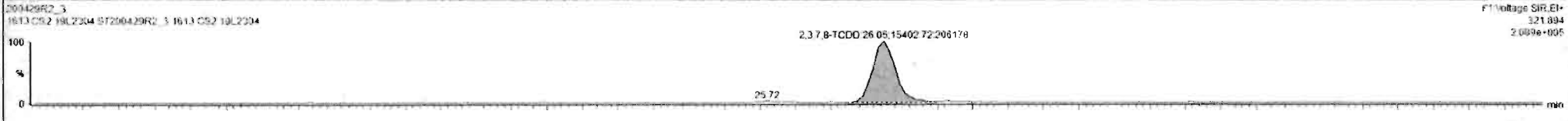
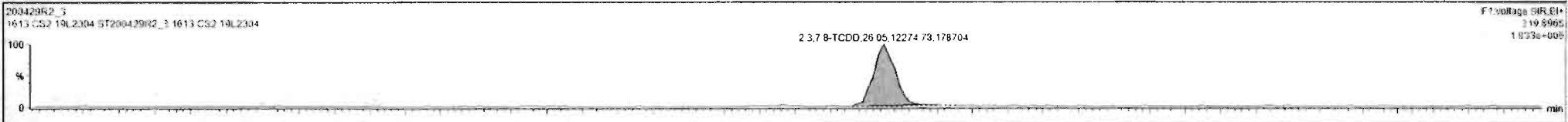


200429R2_3



200429R2_3 - ST200429R2_3 1613 CS2 19L2304 1613 CS2 19L2304

#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.900	2.1	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	21.13	0.621	NO	9.9612e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.49	1.246	NO	8.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.515	0.0597
5	1,2,3,7,8,9-HxCDD	24.80	1.244	NO	8.1064e4	8.0356e5	10.000	6.3	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.36	1.081	NO	5.9094e4	6.3852e5	10.000	3.1	8.93	0.856	0.0632
7	OCDD	41.24	0.883	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.8671e6	2.900	4.1	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.567	NO	1.5997e5	1.6425e6	10.000	7.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.6556e6	10.000	6.4	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7026e4	8.5676e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.958	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.9417e4	4.7128e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.802	0.0575



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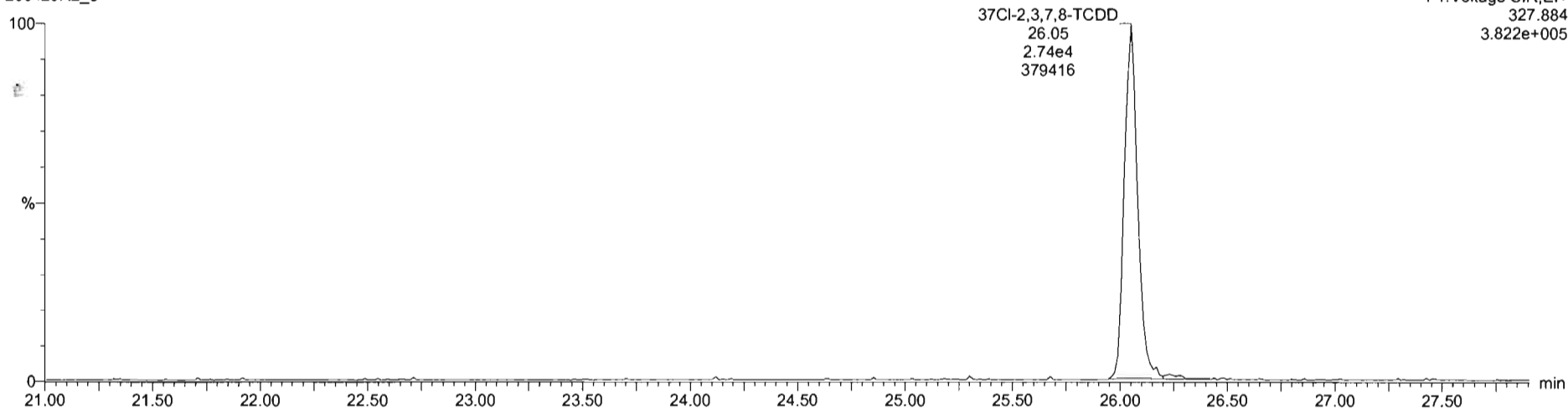
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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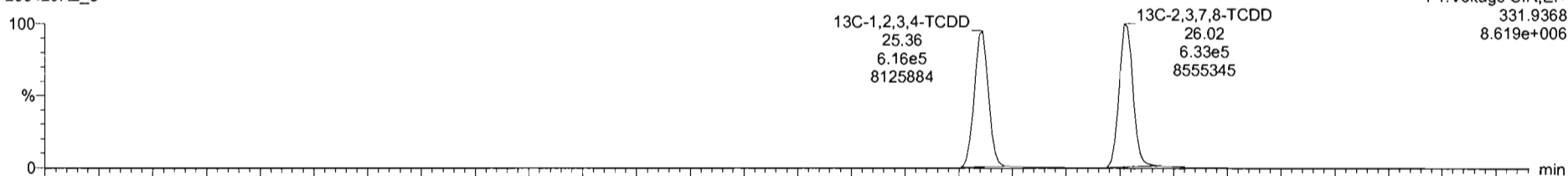
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200429R2_3

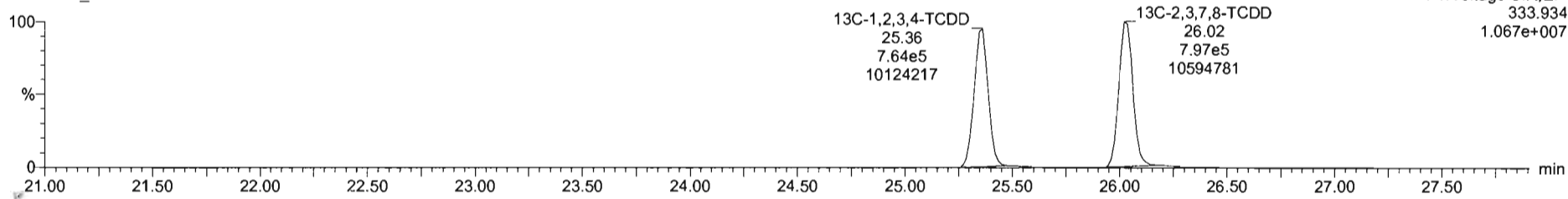


13C-1,2,3,4-TCDD

200429R2_3



200429R2_3



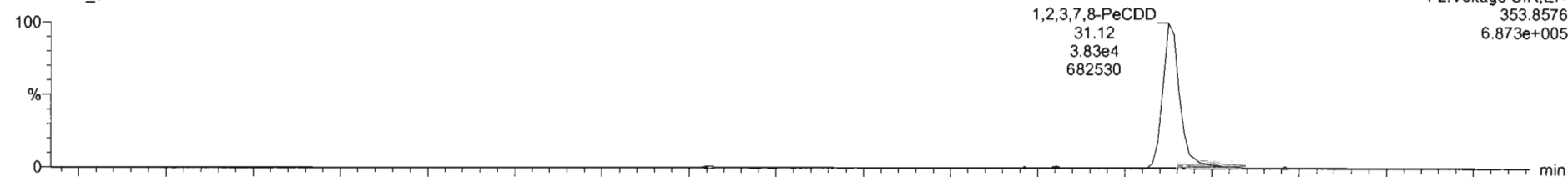
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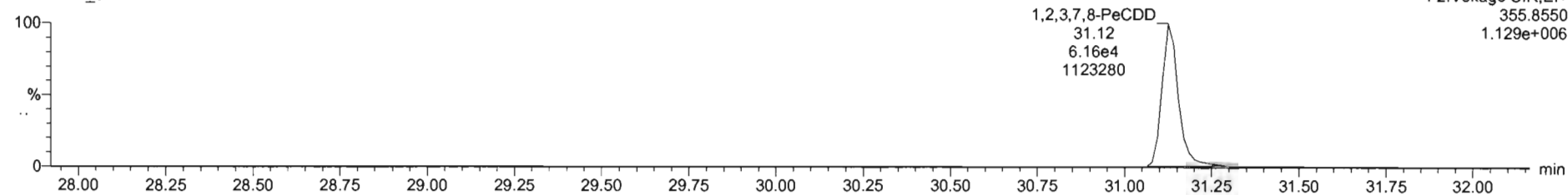
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1,2,3,7,8-PeCDD

200429R2_3

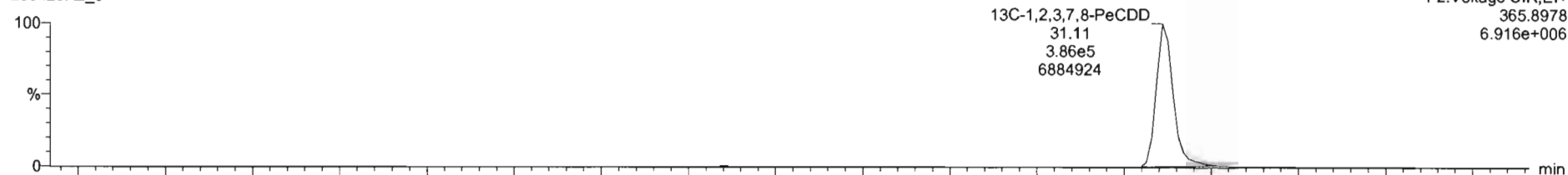


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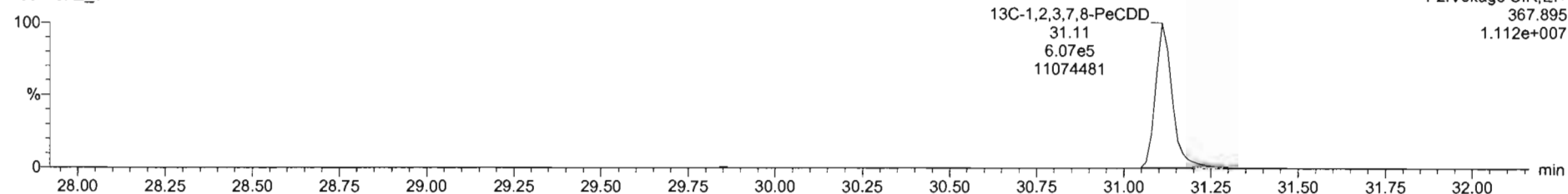


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200429R2_3



200429R2_3



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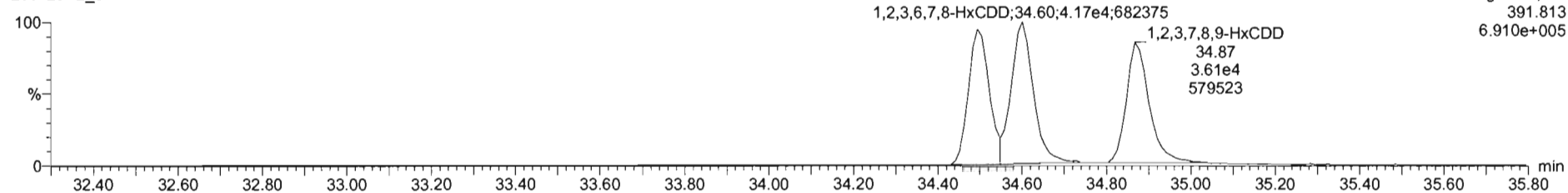
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1,2,3,4,7,8-HxCDD

200429R2_3

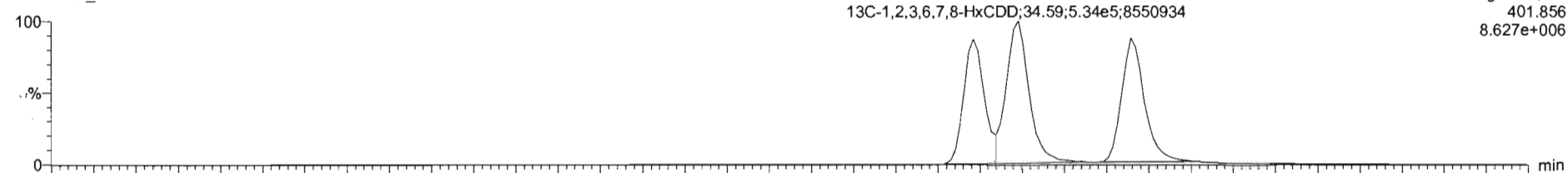


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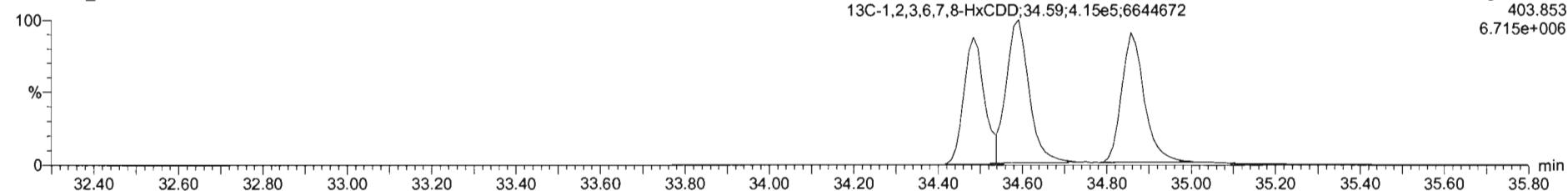


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200429R2_3



200429R2_3



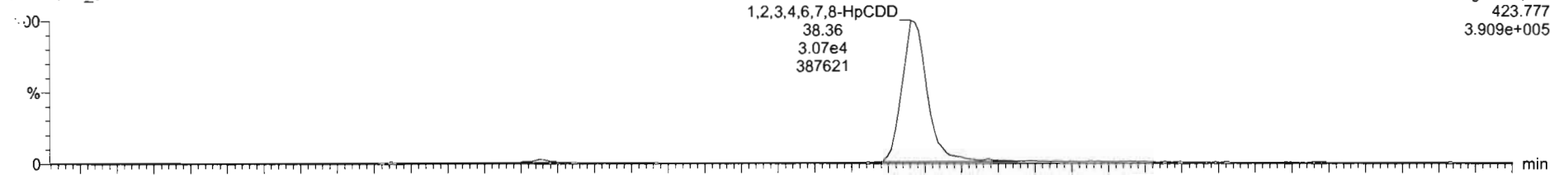
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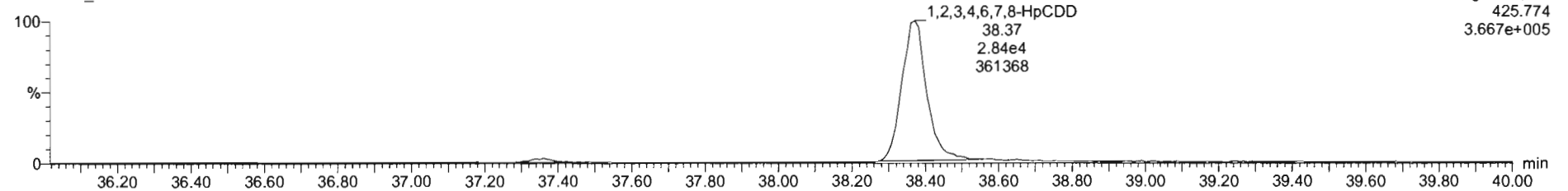
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1,2,3,4,6,7,8-HpCDD

200429R2_3

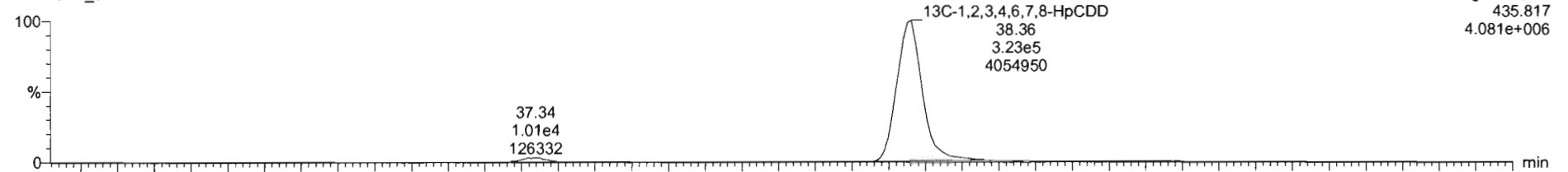


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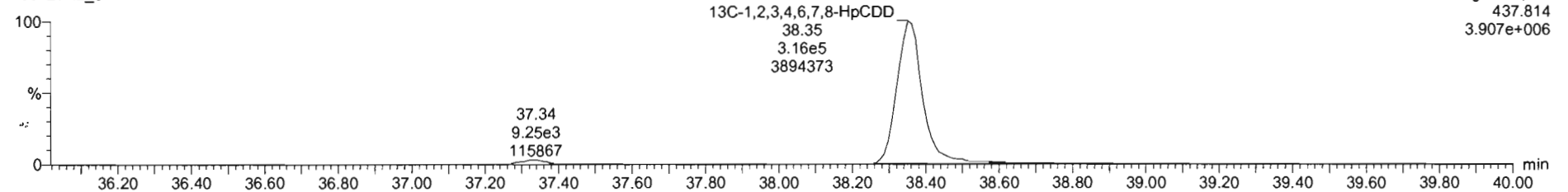


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200429R2_3



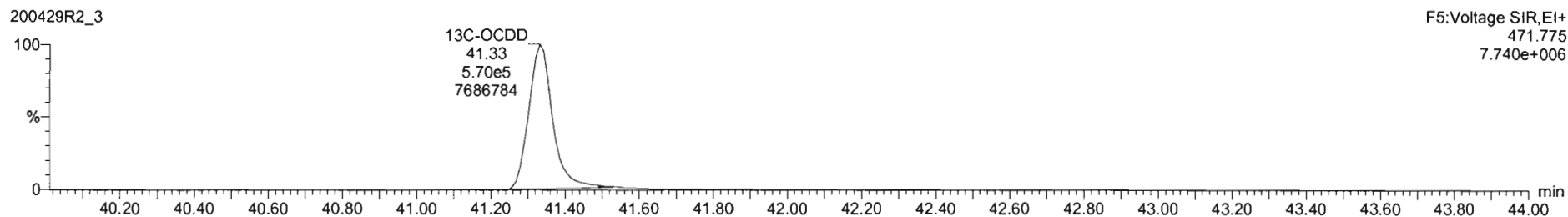
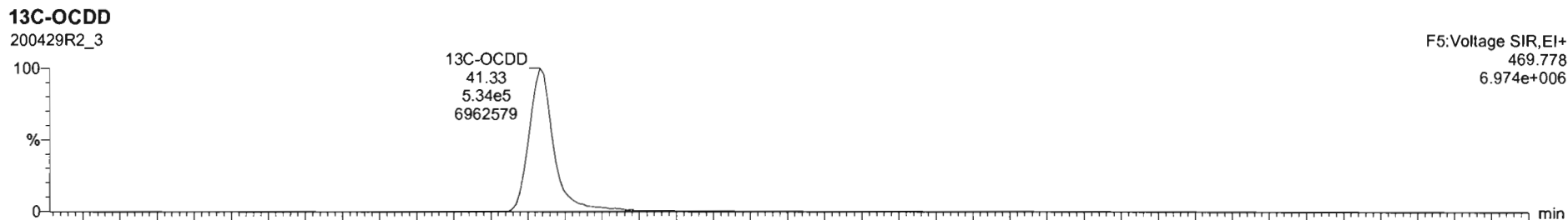
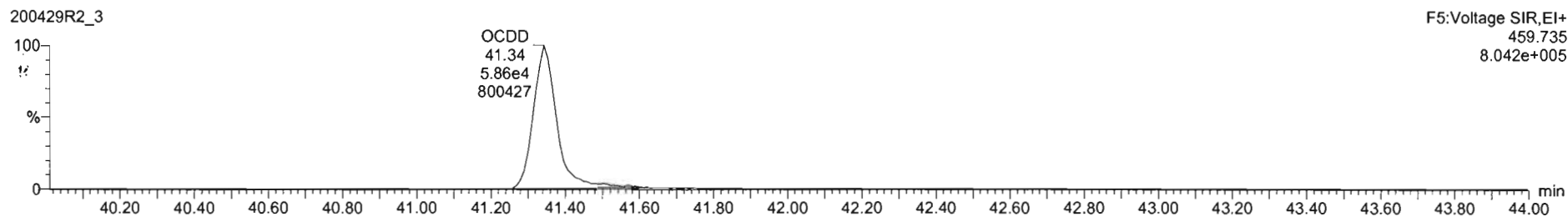
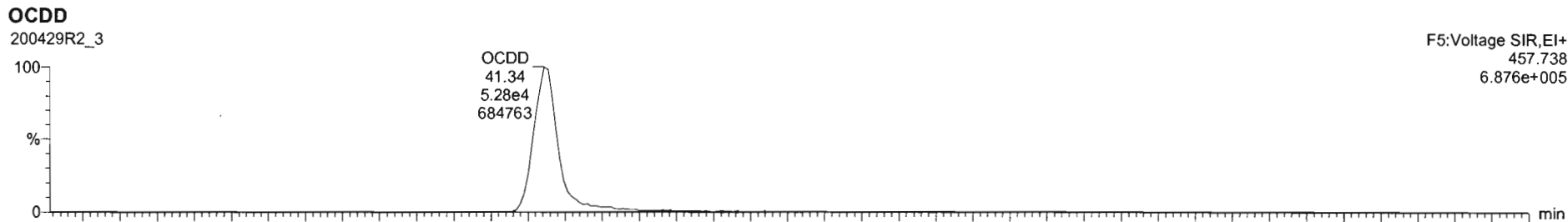
200429R2_3



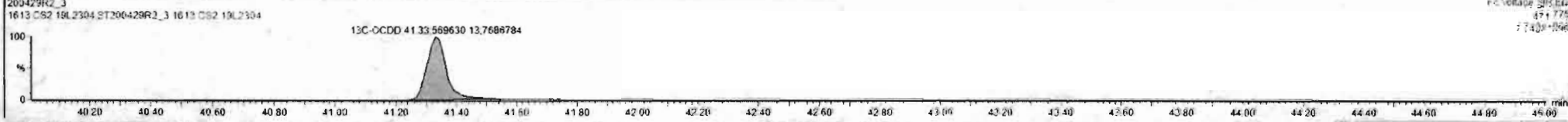
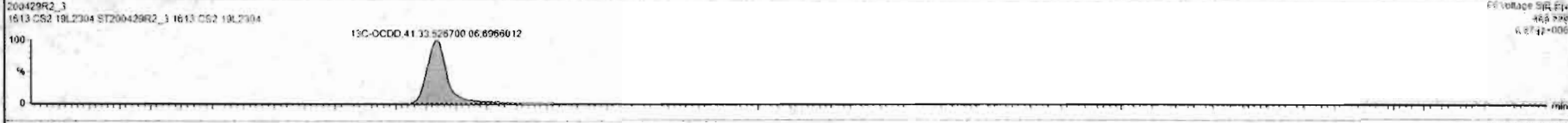
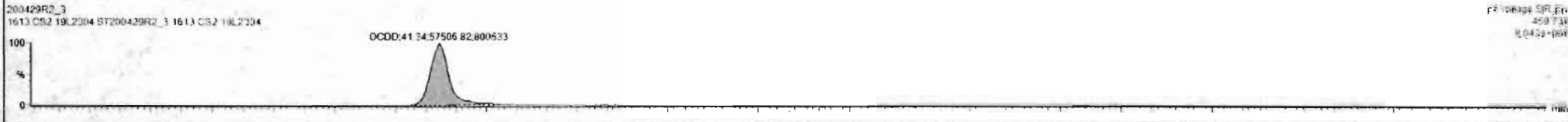
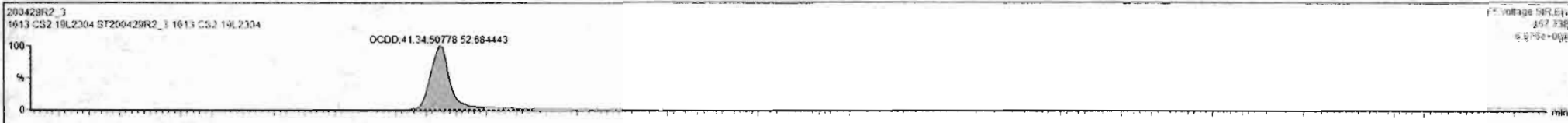
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Name: 200429R2_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304



#	Name	RT	RA	Yln	Area	IS Area	Std Conc	%Dev	%RSD	RRF M	RRF SD
1	2,3,7,8-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.246	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.82	1.244	NO	8.1084e4	8.2359e5	10.000	6.3	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	38.36	1.001	NO	5.9094e4	6.5852e5	10.000	3.1	6.93	0.856	0.0622
7	OCDD	41.34	0.863	NO	1.0629e5	1.9963e6	20.000	8.6	7.57	0.830	0.0767
8	2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.000	4.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.067	NO	1.5997e5	1.6425e6	10.000	7.0	5.06	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.5656e6	10.000	6.4	4.98	0.906	0.0481
11	1,2,3,4,7,8-HxCDF	32.83	1.217	NO	9.1102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.200	NO	1.0896e5	1.1366e6	10.000	9.5	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0201e6	10.000	7.1	7.69	0.922	0.0766
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5876e5	10.000	4.9	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.90	0.950	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.8417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	OCDF	41.52	0.877	NO	1.6707e5	1.2711e6	20.000	5.0	7.16	0.862	0.0575



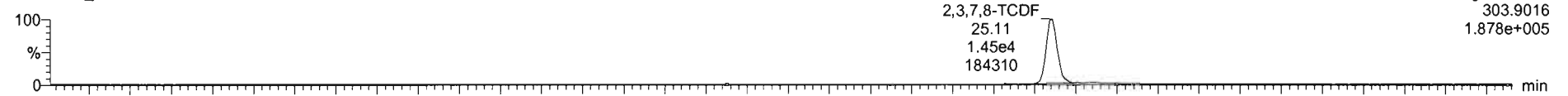
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

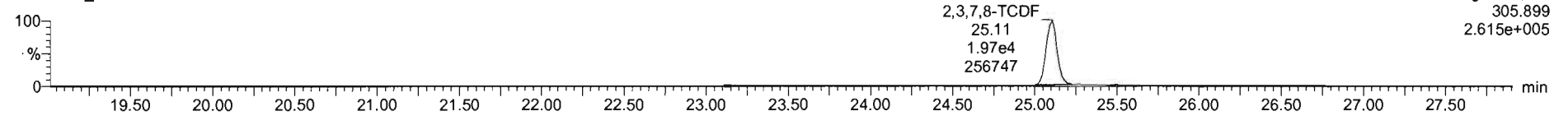
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2,3,7,8-TCDF

200429R2_3

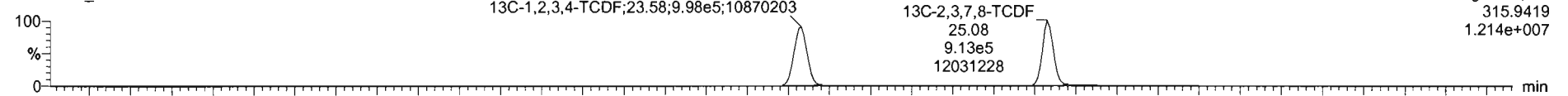


200429R2_3

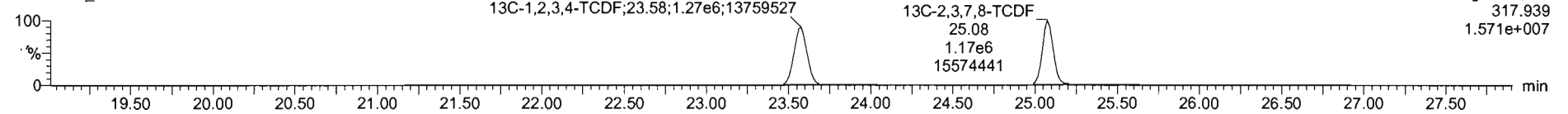


13C-2,3,7,8-TCDF

200429R2_3

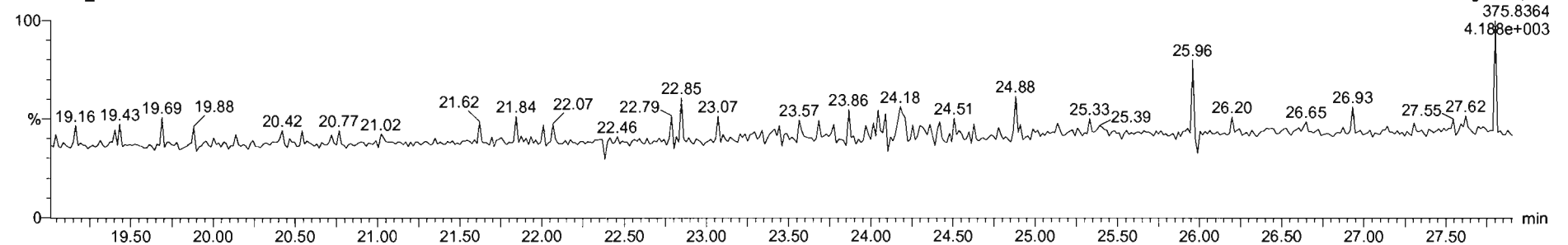


200429R2_3



DPE1

200429R2_3



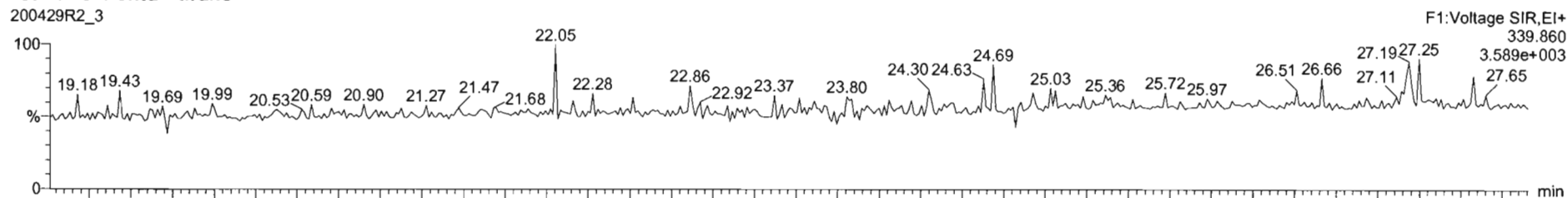
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

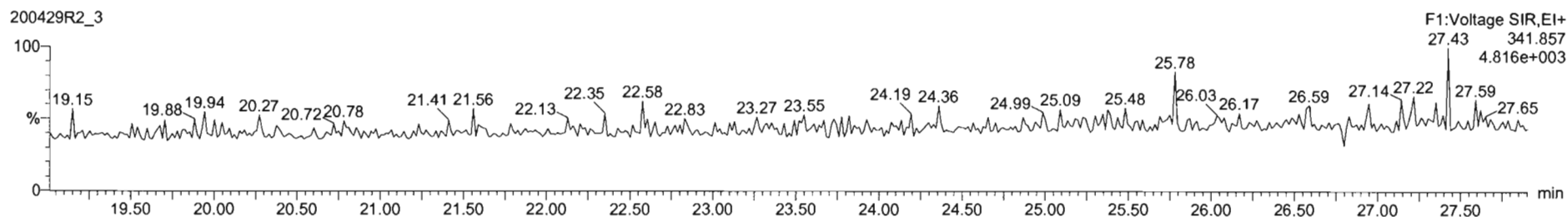
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1st Func. Penta-Furans

200429R2_3

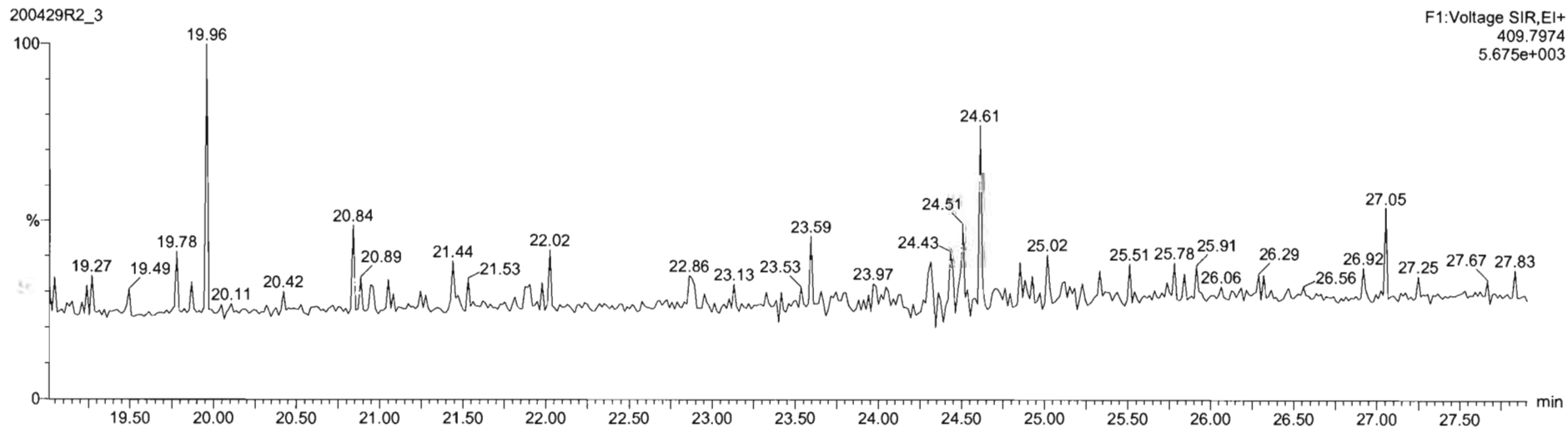


200429R2_3



DPE6

200429R2_3



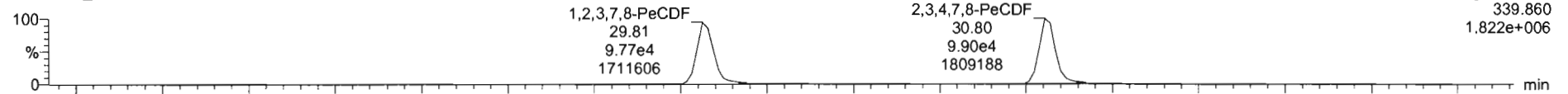
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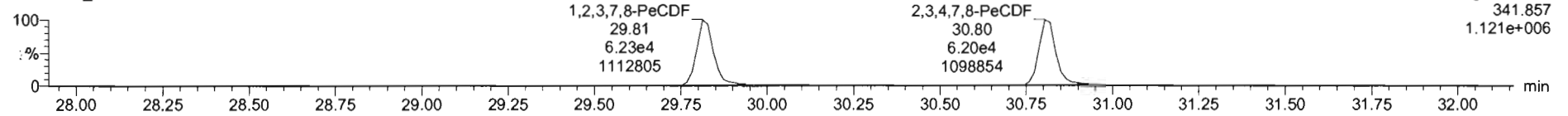
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1,2,3,7,8-PeCDF

200429R2_3

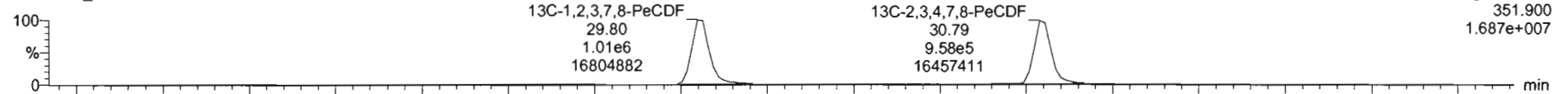


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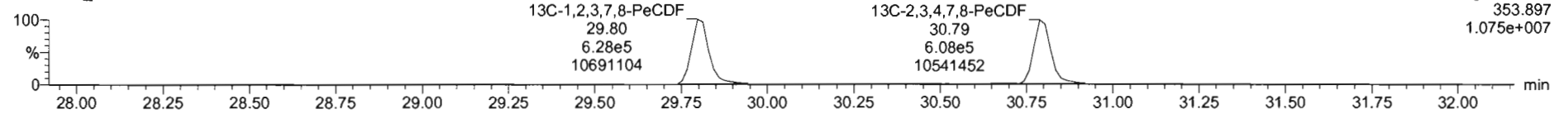


13C-1,2,3,7,8-PeCDF

200429R2_3

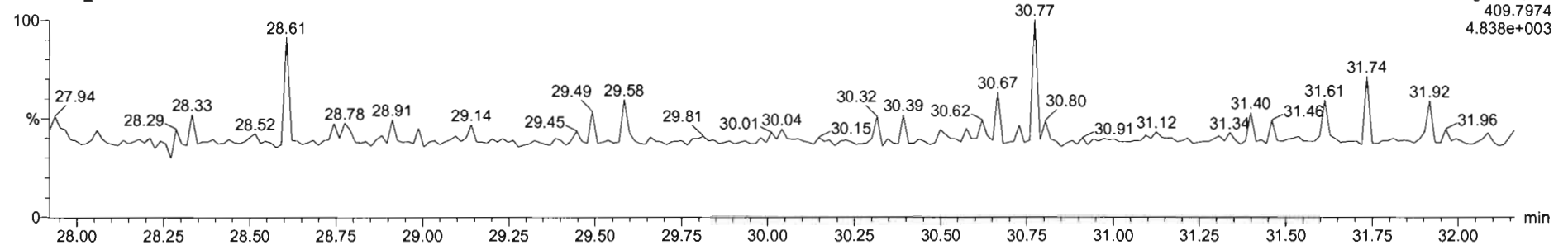


200429R2_3



DPE2

200429R2_3



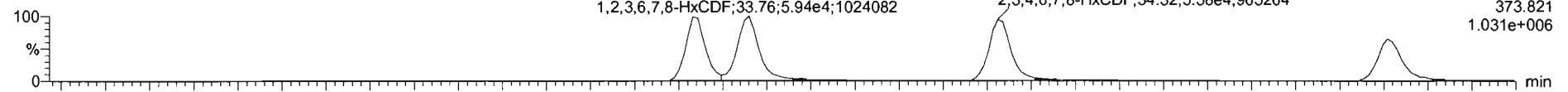
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

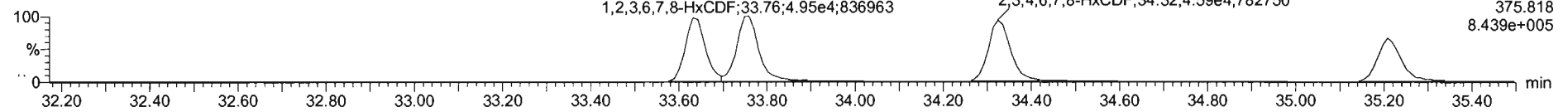
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1,2,3,4,7,8-HxCDF

200429R2_3

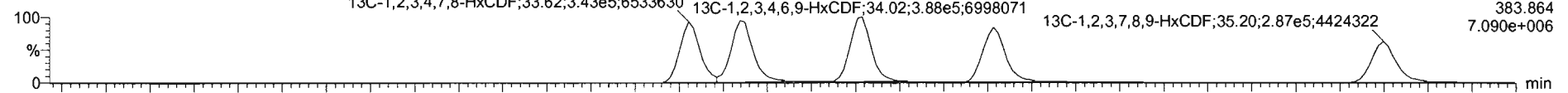


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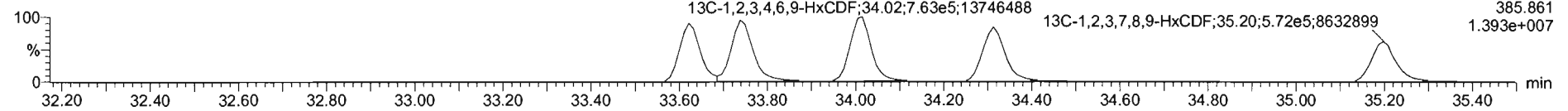


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200429R2_3

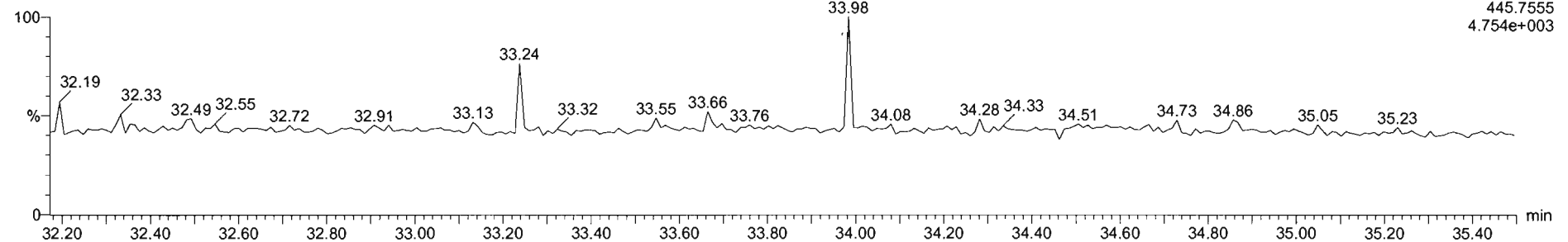


200429R2_3



DPE3

200429R2_3



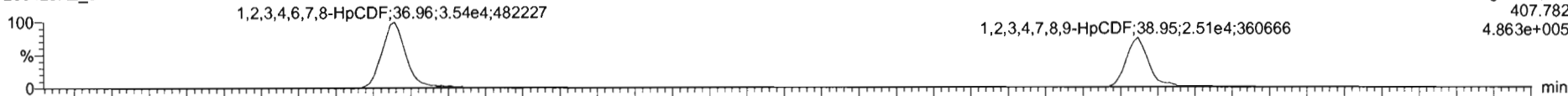
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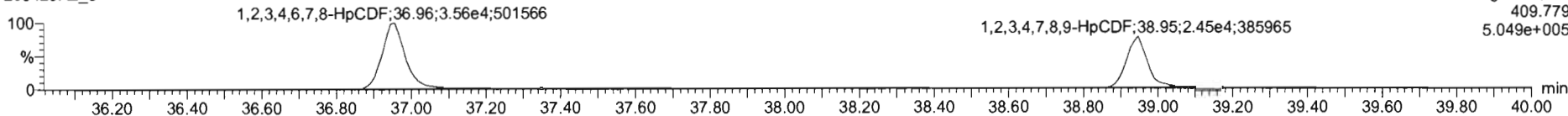
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1,2,3,4,6,7,8-HpCDF

200429R2_3

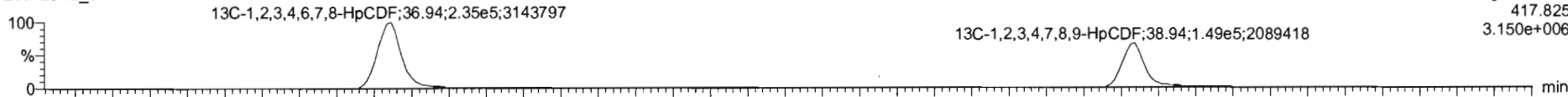


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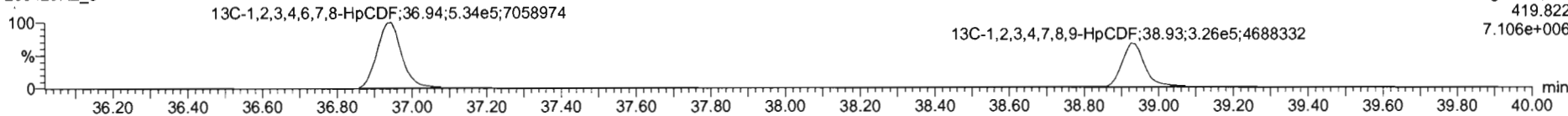


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200429R2_3

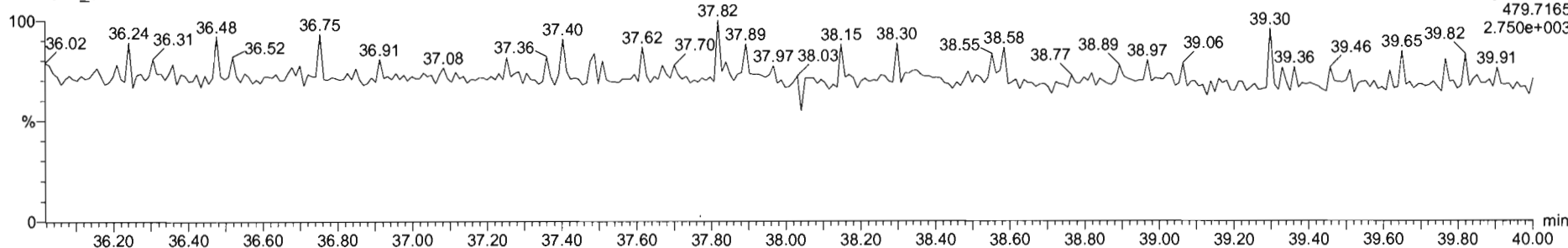


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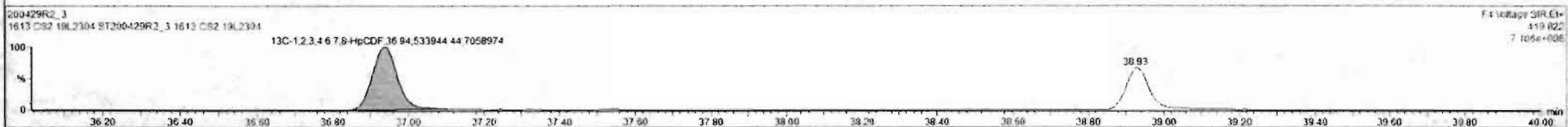
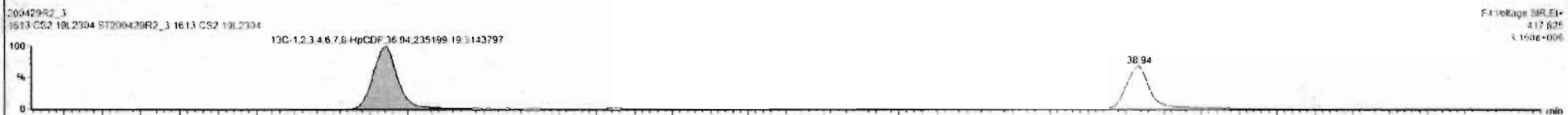
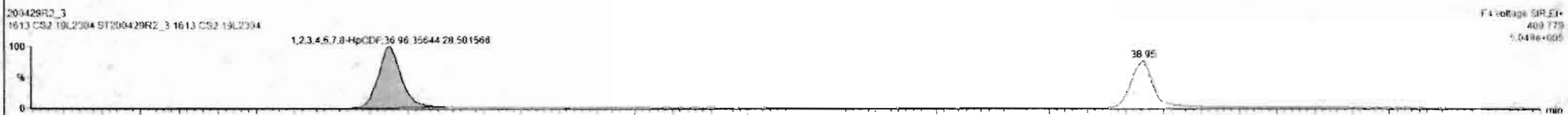
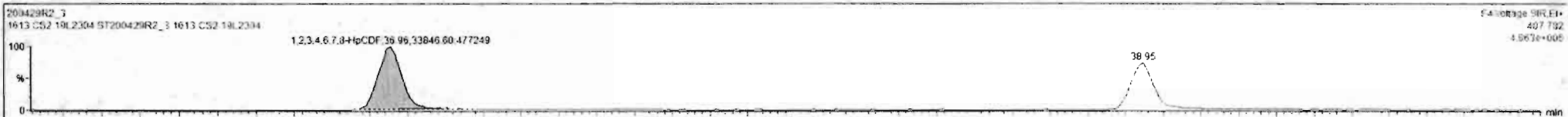


DPE4

200429R2_3



#	1	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF N	RRF SD
1	1	1,2,3,7,8-TCDD	26.95	0.757	NO	2.7677e4	1.4302e6	2.000	2.1	5.35	0.947	0.0507
2	2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9612e4	9.9250e5	10.000	6.8	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.49	1.248	NO	3.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0794
4	4	1,2,3,6,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	5	1,2,3,7,8,9-HxCDD	34.82	1.244	NO	8.1084e4	8.3359e5	10.000	6.3	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	38.36	1.051	NO	5.9094e4	6.3652e5	10.000	3.1	6.93	0.856	0.0622
7	7	OCDD	41.34	0.853	NO	1.0629e5	1.0963e6	20.000	5.8	7.57	0.933	0.0707
8	8	1,2,3,7,8-TCDF	25.11	0.737	NO	3.4210e4	2.0671e6	2.000	4.1	5.11	0.767	0.0402
9	9	1,2,3,7,8-PeCDF	29.81	1.527	NO	1.5997e5	1.8425e6	10.000	7.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6103e5	1.5556e6	10.000	6.4	4.98	0.666	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.63	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	12	1,2,3,6,7,8-HxCDF	33.78	1.209	NO	1.0898e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	13	1,2,3,4,6,7,8-HxCDF	34.32	1.217	NO	1.0168e5	1.0301e6	10.000	7.1	7.69	0.922	0.0786
14	14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5276e5	10.000	4.9	5.96	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	38.96	0.850	NO	6.9491e4	7.6014e5	10.000	3.7	7.54	0.871	0.0652
16	16	1,2,3,4,7,8,9-HpCDF	38.95	1.014	NO	4.3417e4	4.7188e5	10.000	3.5	6.62	1.01	0.0670
17	17	OCDF	41.52	0.877	NO	1.0707e5	1.2711e6	20.000	5.0	7.16	0.602	0.0575



Custom Reporting: Select reports to generate

200429R2_3

CAP NUM

8:04 AM

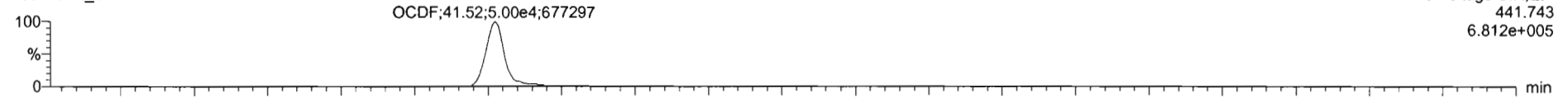
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

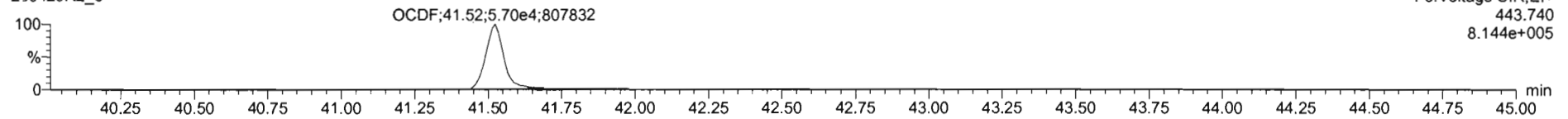
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OCDF

200429R2_3

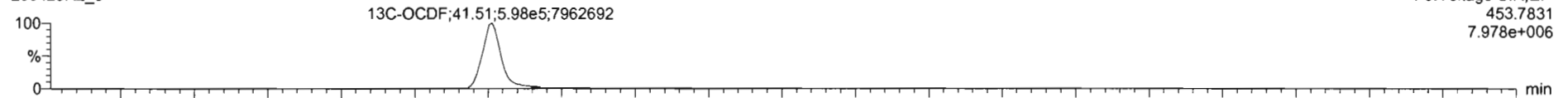


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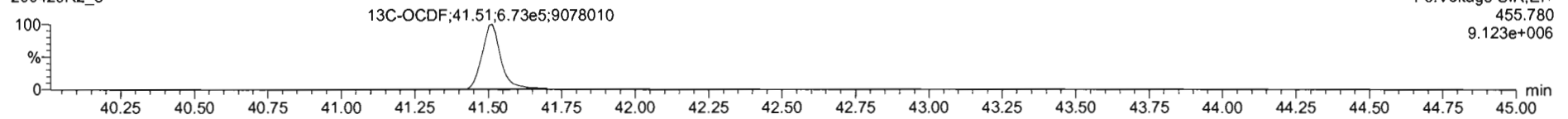


13C-OCDF

200429R2_3

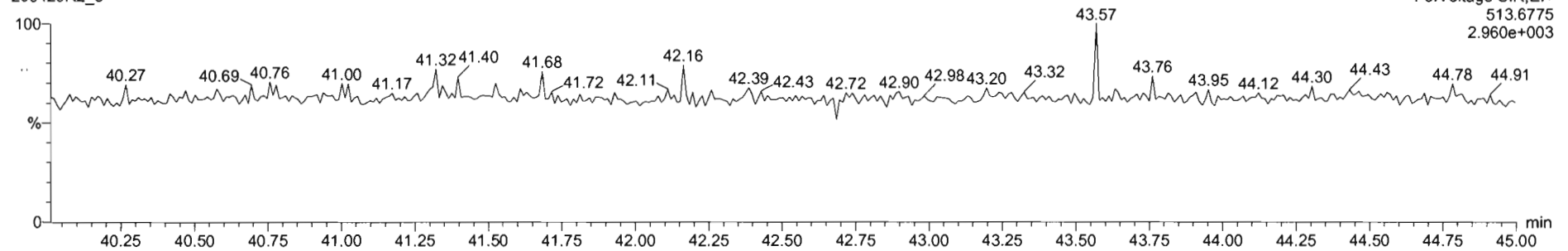


200429R2_3



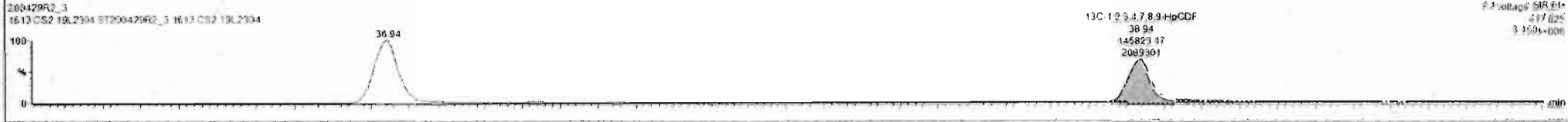
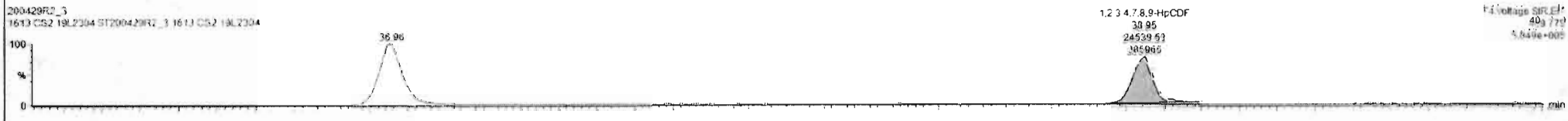
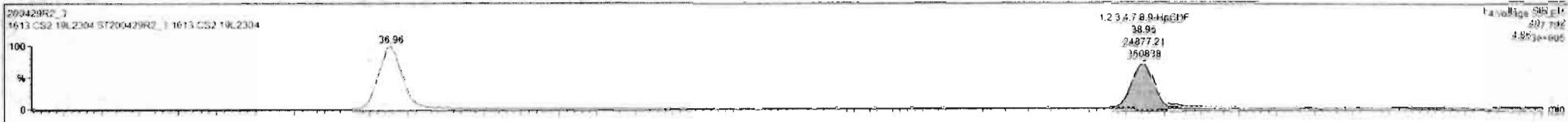
DPE5

200429R2_3



200429R2_3 - ST200429R2_3 1613 CS2 19L2304 - 1613 CS2 19L2304

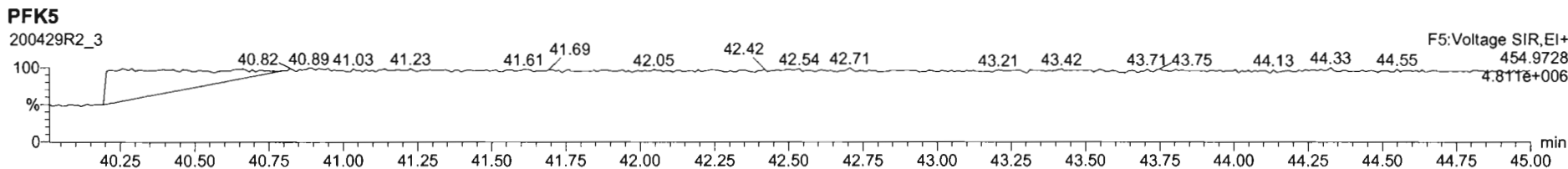
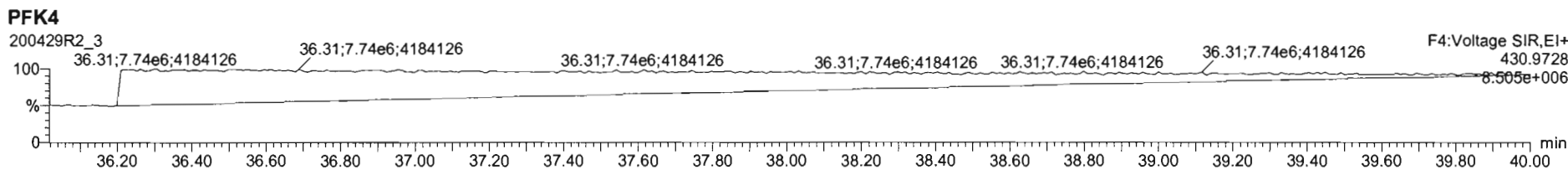
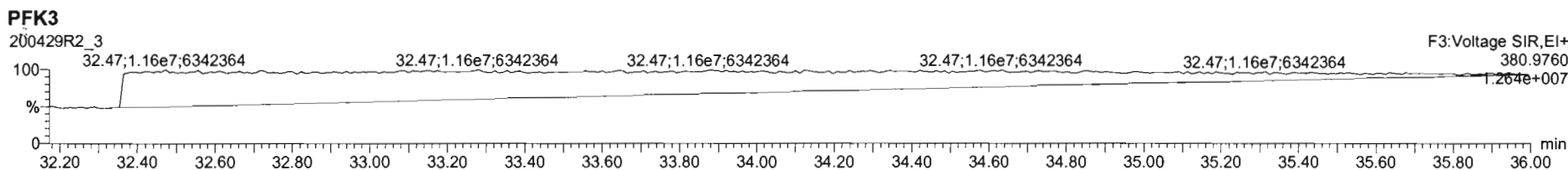
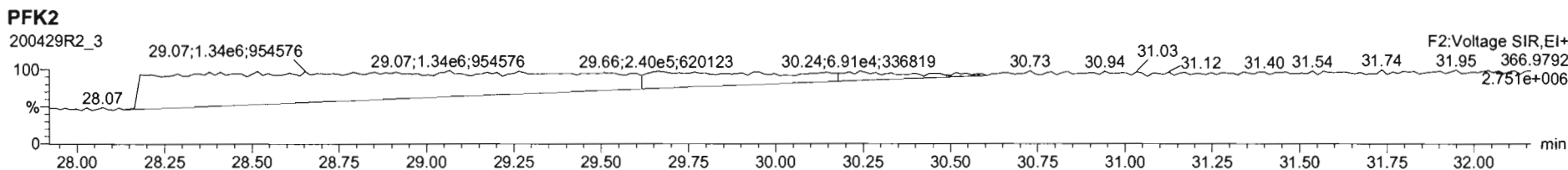
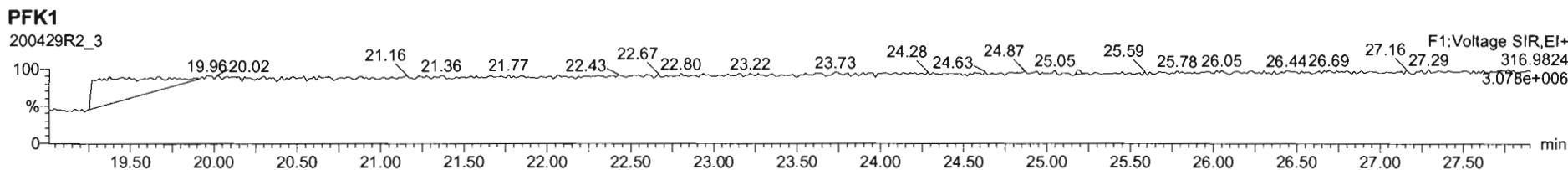
#	Name	RT	RA	yth	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,6-TCDD	26.05	0.797	NO	2.7677e4	1.4302e6	2.000	2.1	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.621	NO	9.9912e4	9.9250e5	10.000	6.5	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.49	1.246	NO	8.2429e4	7.5171e5	10.000	3.1	6.62	1.06	0.0704
4	1,2,3,7,8-HxCDD	34.80	1.257	NO	9.4154e4	9.4942e5	10.000	8.4	6.53	0.915	0.0597
5	1,2,3,7,8-HxCDF	34.82	1.244	NO	8.1084e4	8.1358e5	10.000	6.3	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.36	1.051	NO	6.9004e4	6.3850e5	10.000	3.1	6.93	0.856	0.0622
7	OCDD	41.34	0.863	NO	1.0839e5	1.0963e6	20.000	5.8	7.57	0.933	0.0787
8	1,2,3,6-TCDF	25.11	0.737	NO	3.4210e4	2.8671e6	2.000	4.1	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.567	NO	1.5597e5	1.6425e6	10.000	7.0	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.595	NO	1.6102e5	1.5456e6	10.000	6.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.63	1.217	NO	9.5102e4	1.0175e6	10.000	6.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.208	NO	1.0896e5	1.1386e6	10.000	9.5	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.32	1.217	NO	1.0168e5	1.0201e6	10.000	7.1	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.223	NO	7.7636e4	8.5876e5	10.000	4.9	5.98	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	38.95	0.950	NO	6.9491e4	7.6914e5	10.000	3.7	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HxCDF	38.95	1.014	NO	4.9417e4	4.7182e5	10.000	2.5	6.62	1.01	0.0678
17	OCDF	41.52	0.877	NO	1.0707e5	1.2711e6	20.000	5.0	7.16	0.802	0.0575



Dataset: Untitled

Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_3, Date: 29-Apr-2020, Time: 15:02:24, ID: ST200429R2_3 1613 CS2 19L2304, Description: 1613 CS2 19L2304

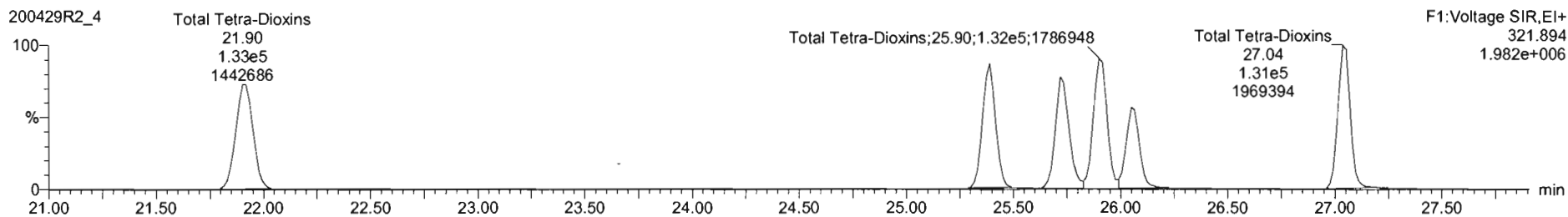
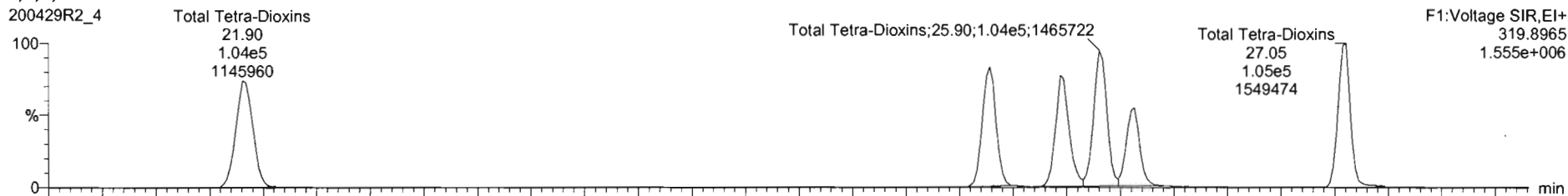


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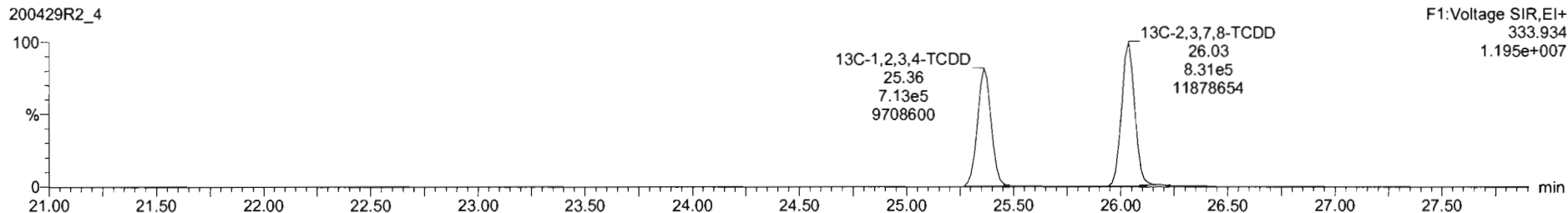
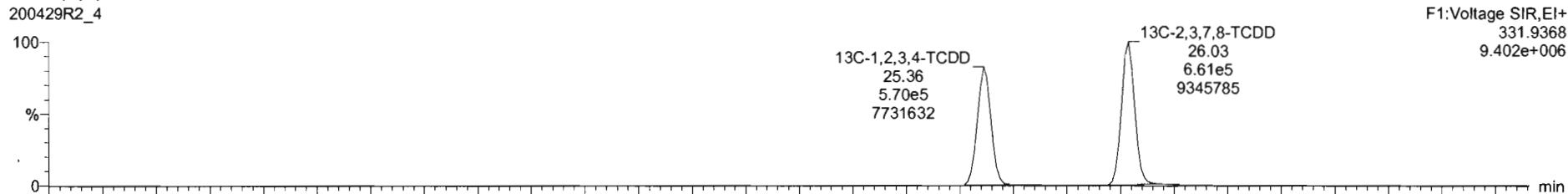
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDD



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



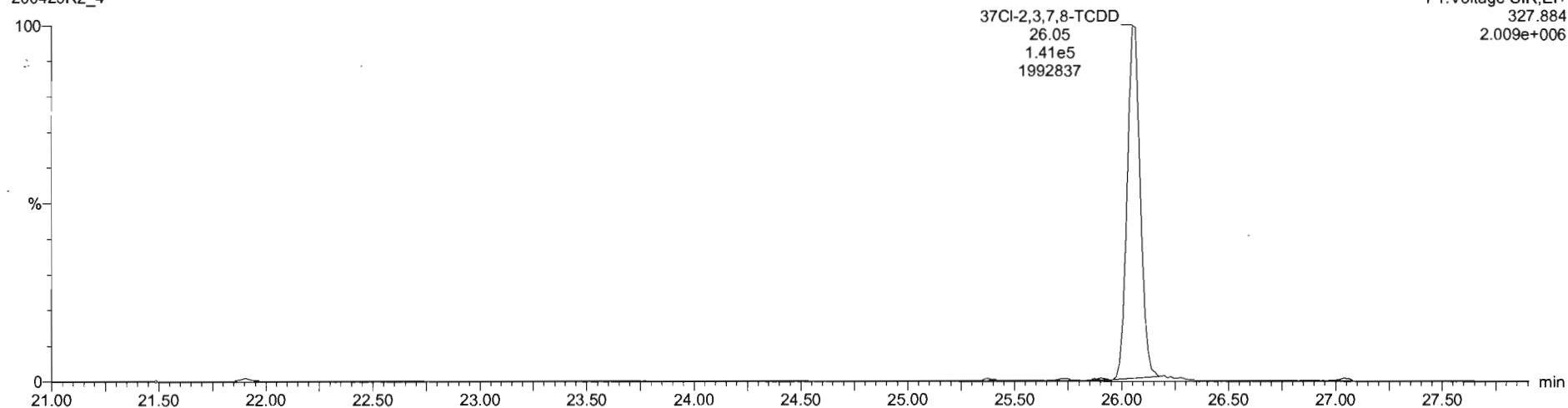
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

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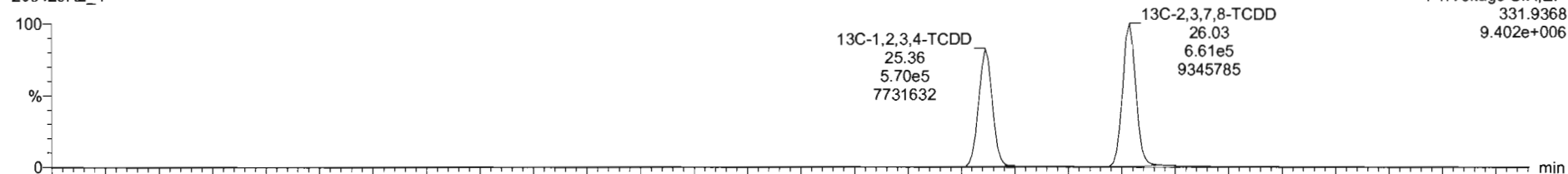
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200429R2_4

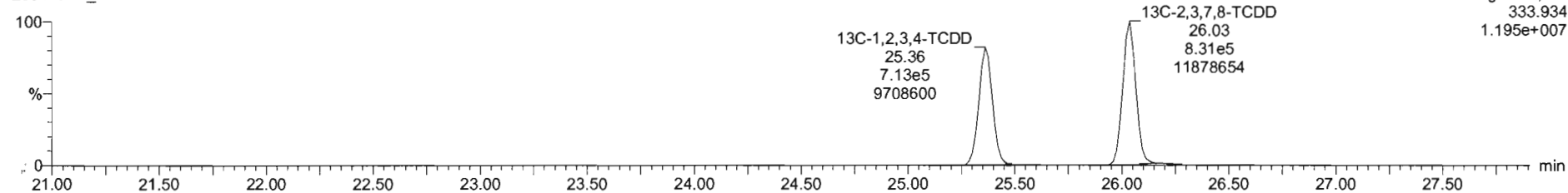


13C-1,2,3,4-TCDD

200429R2_4



200429R2_4



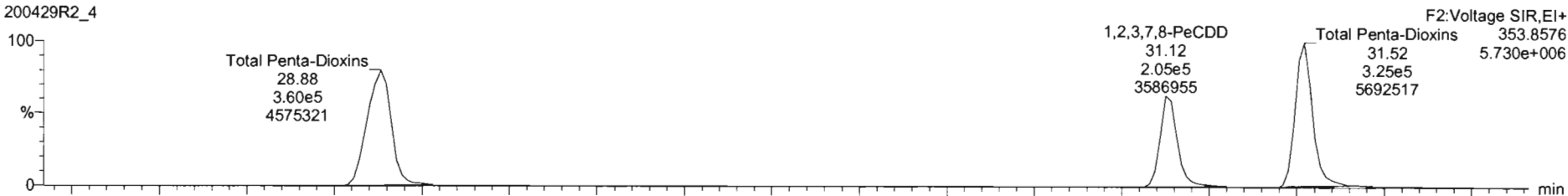
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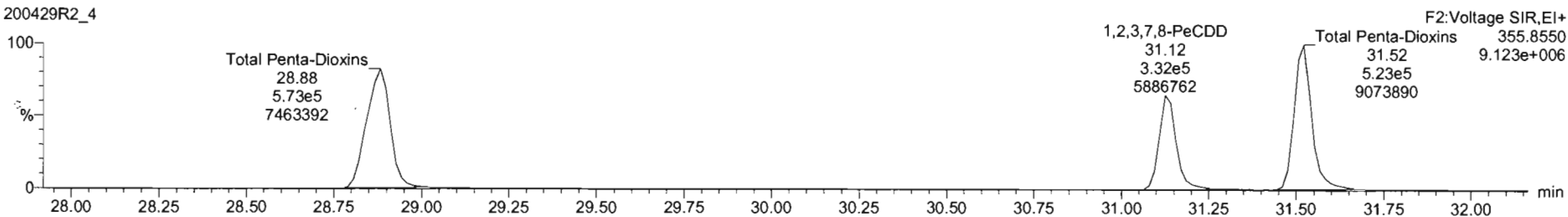
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1,2,3,7,8-PeCDD

200429R2_4

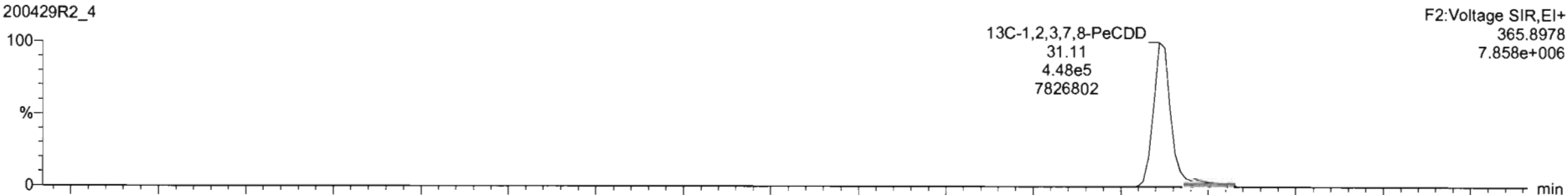


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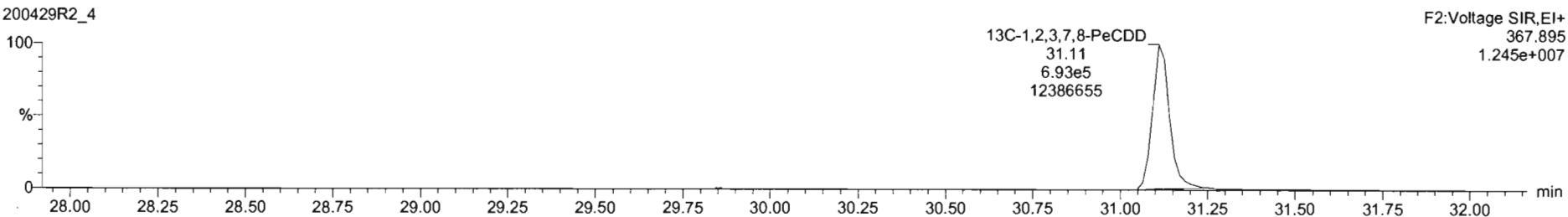


13C-1,2,3,7,8-PeCDD

200429R2_4



200429R2_4



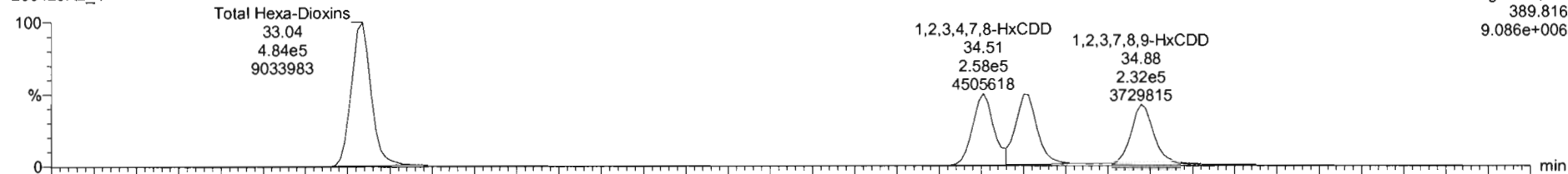
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

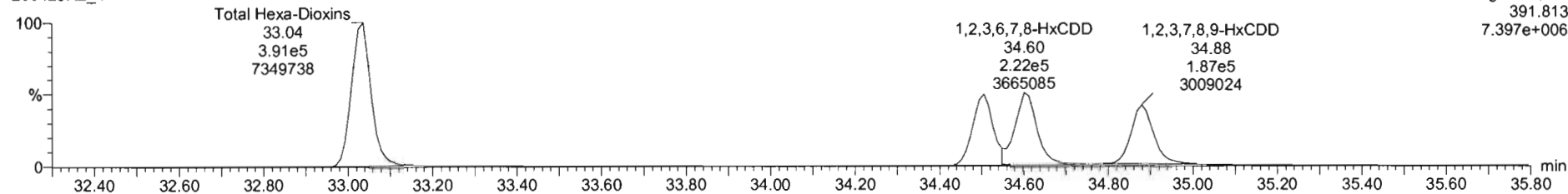
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1,2,3,4,7,8-HxCDD

200429R2_4

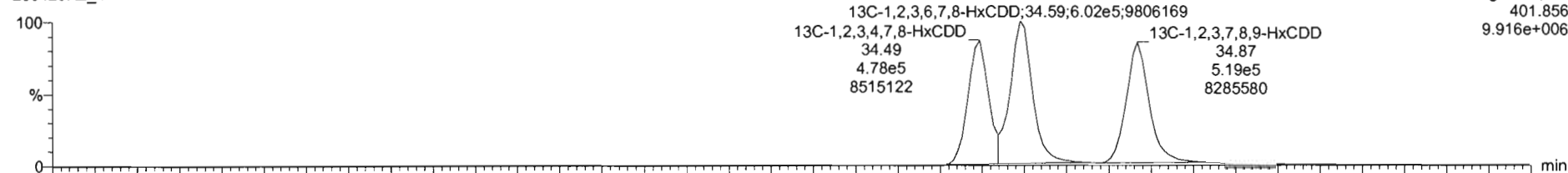


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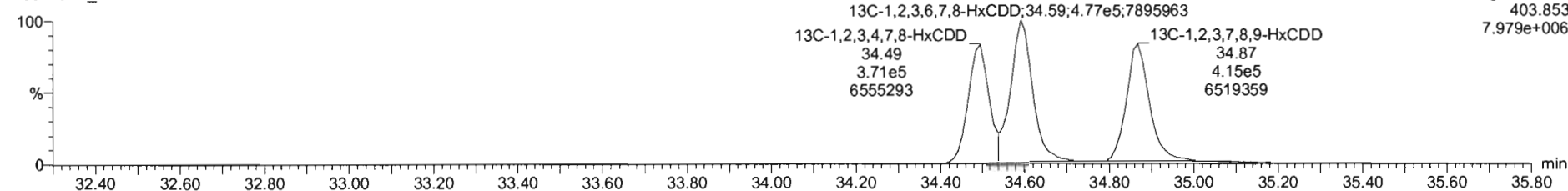


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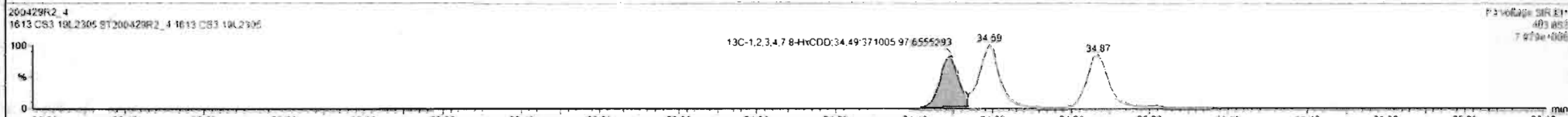
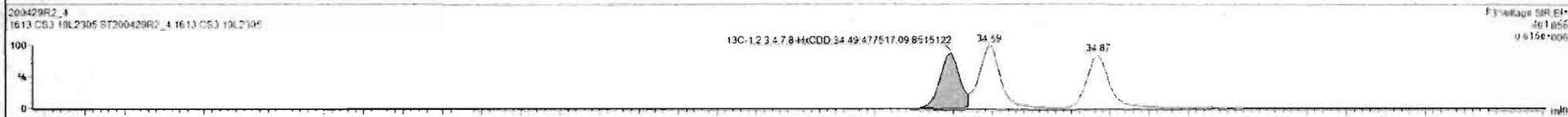
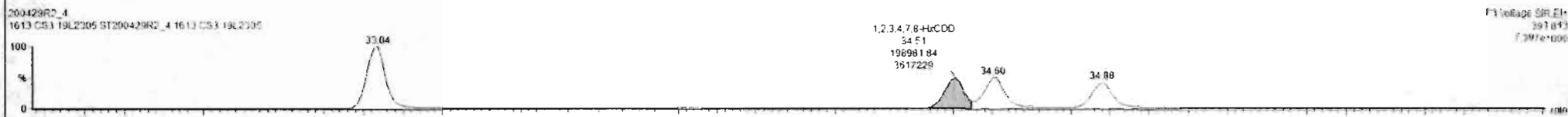
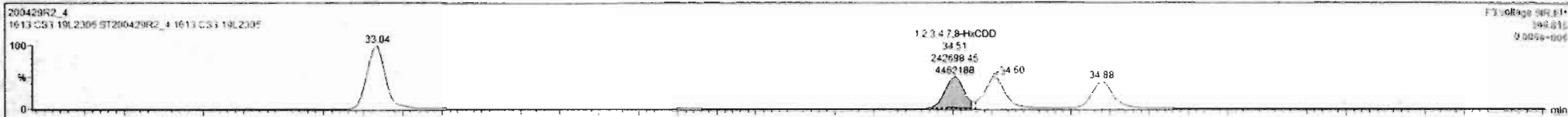
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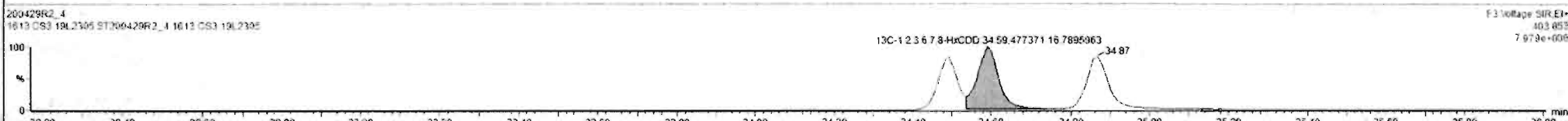
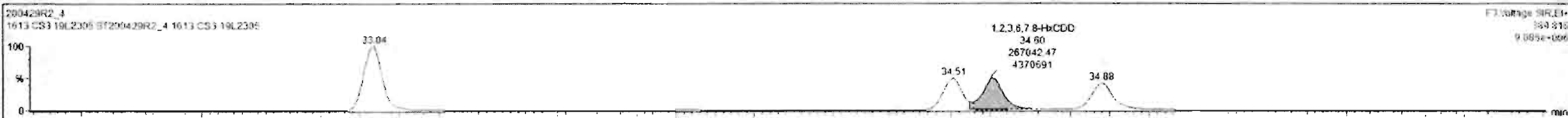
200429R2_4



#	s	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.35	0.947	0.0407
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.226	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	4	1,2,3,6,7,8-HxCDD	34.82	1.202	NO	4.8827e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0493
5	5	1,2,3,7,8,9-HxCDD	34.82	1.239	NO	4.1946e5	9.2381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	38.38	0.988	NO	3.0789e5	6.7896e5	50.000	1.0	6.93	0.696	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.939	0.0763
8	8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0462
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6862e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.666	0.0481
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5766e5	1.2611e6	50.000	1.2	7.23	0.874	0.0633
13	13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.68	0.902	0.0765
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.98	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0653
16	16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5972e5	5.1182e5	50.000	0.3	6.62	1.01	0.0679
17	17	OCDF	41.53	0.862	NO	5.3038e5	1.3196e6	100.000	1.3	7.16	0.863	0.0575



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3879e5	1.1411e6	50.000	0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8027e5	1.0736e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	34.98	1.239	NO	4.1946e5	9.2381e5	50.000	-1.5	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.38	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6237e5	1.1777e6	100.000	2.3	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1451e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.6822e6	50.000	0.0	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.9179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.674	0.0632
13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2624e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0667
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3198e6	100.000	1.3	7.16	0.602	0.0575



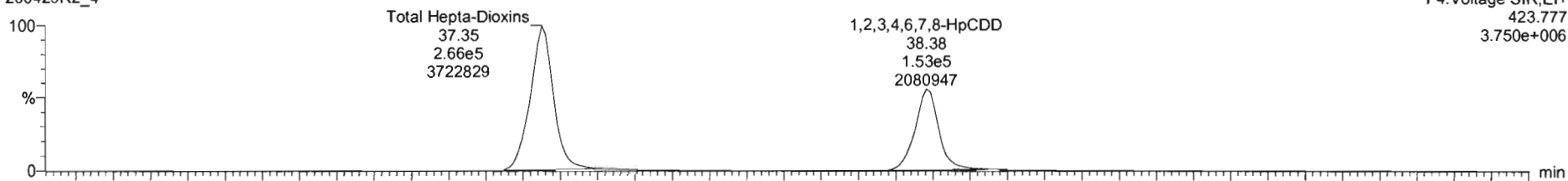
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Last Altered: Thursday, April 30, 2020 7:55:03 AM Pacific Daylight Time
Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

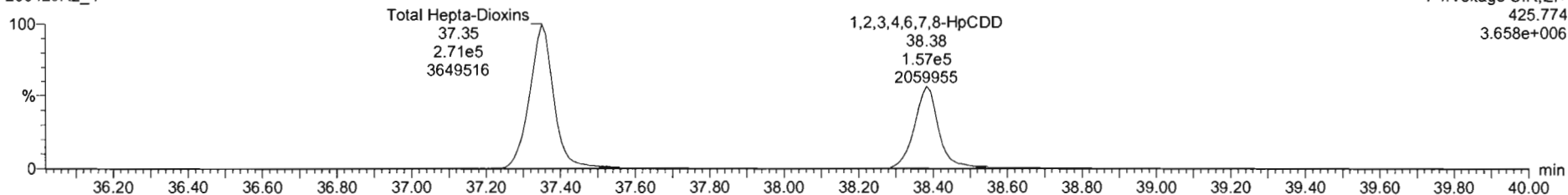
1,2,3,4,6,7,8-HpCDD

200429R2_4



F4:Voltage SIR,EI+
423.777
3.750e+006

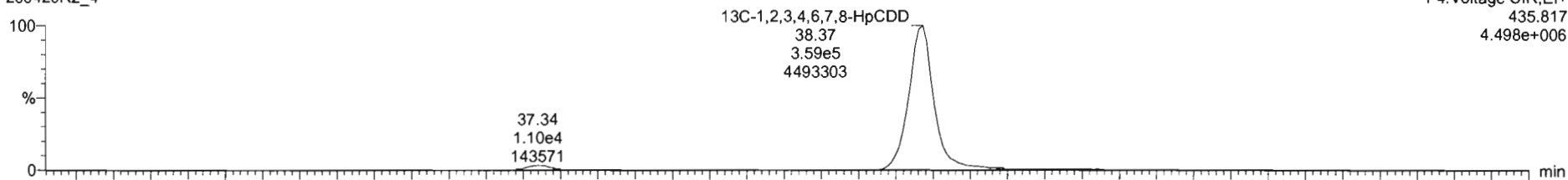
200429R2_4



F4:Voltage SIR,EI+
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3.658e+006

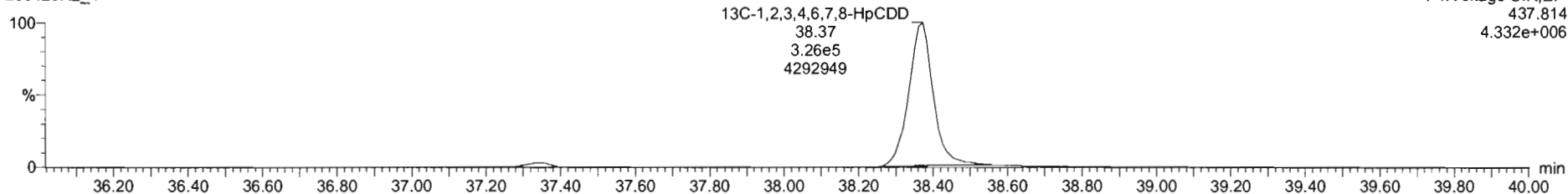
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200429R2_4



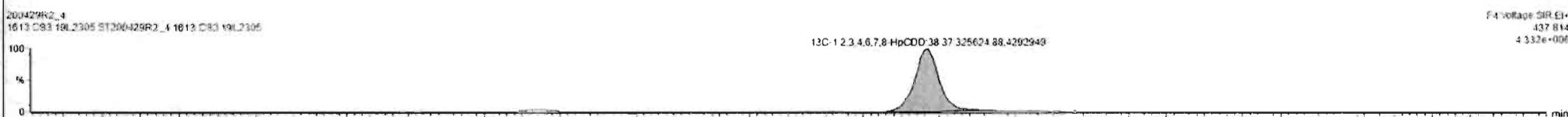
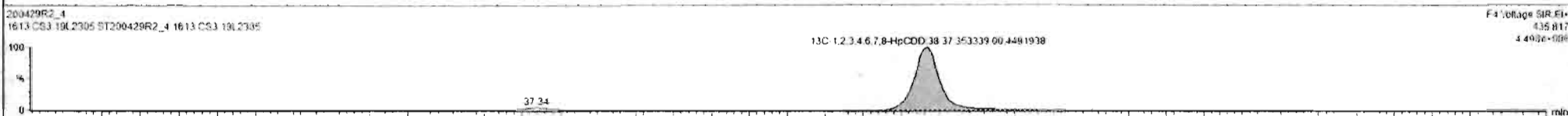
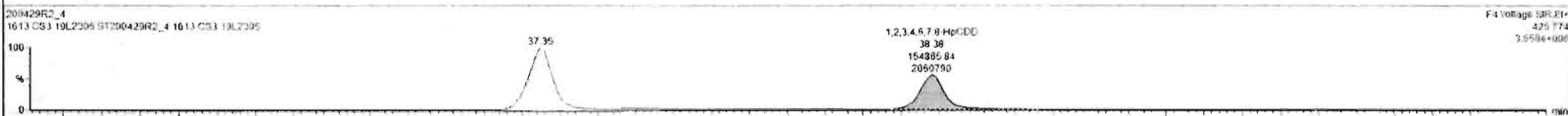
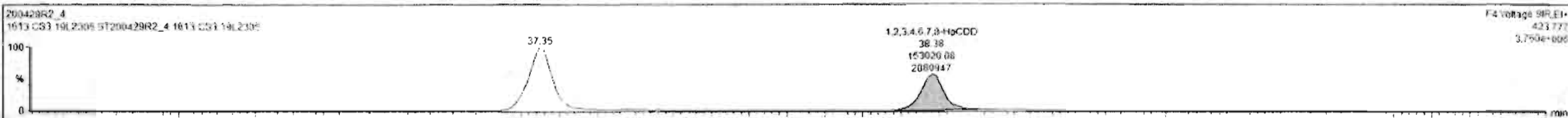
F4:Voltage SIR,EI+
435.817
4.498e+006

200429R2_4



F4:Voltage SIR,EI+
437.814
4.332e+006

#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,6-7-ClDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.6	5.25	0.947	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.229	NO	4.4168e5	8.4852e5	50.000	2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.00	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.98	1.219	NO	4.1946e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0599
6	1,2,3,4,6,7,8-HpCDD	38.36	0.968	NO	3.0769e5	6.7096e5	50.000	1.0	6.93	0.898	0.0622
7	DCCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.923	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.8662e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	29.00	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	24.33	1.170	NO	5.4197e5	1.1399e6	50.000	3.2	7.69	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.22	1.169	NO	4.0244e5	9.2634e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7224e5	8.6486e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	28.06	0.998	NO	2.6973e5	5.1185e5	50.000	0.3	6.62	1.01	0.0670
17	DCCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



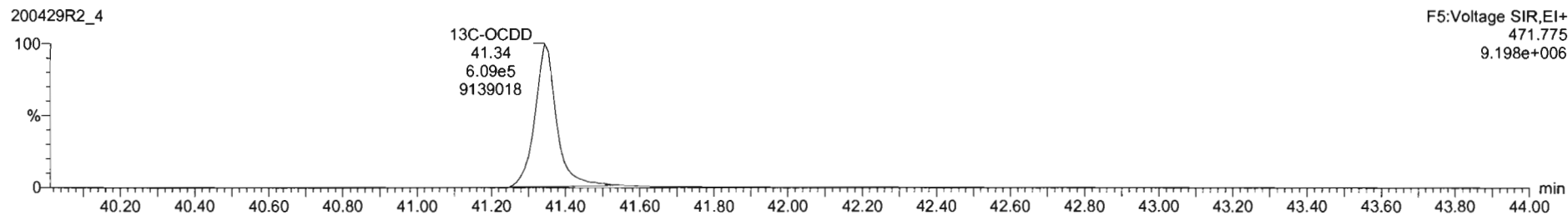
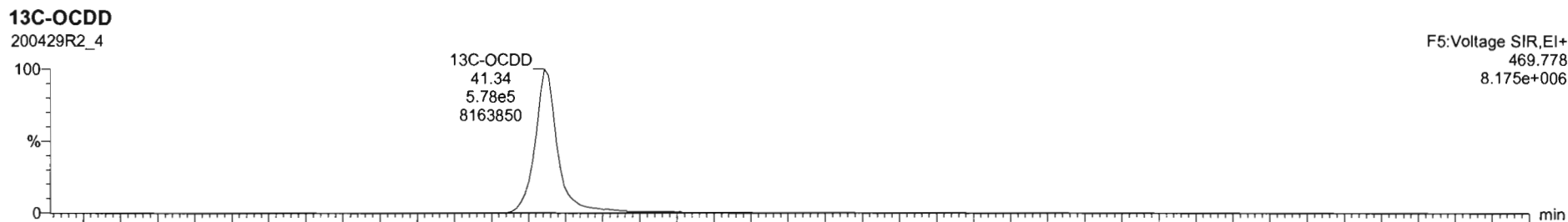
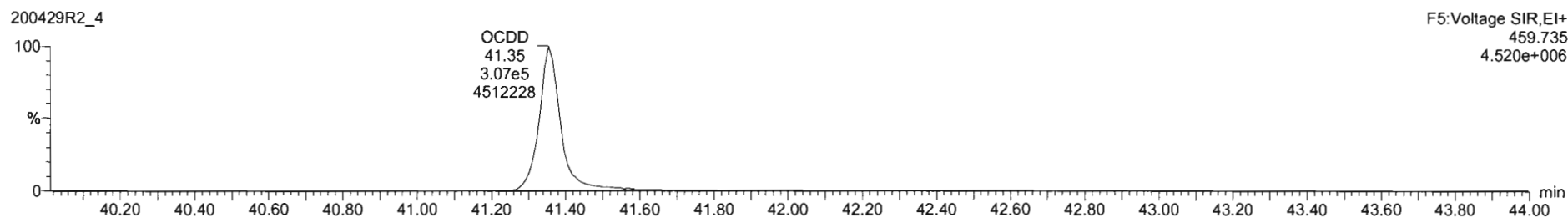
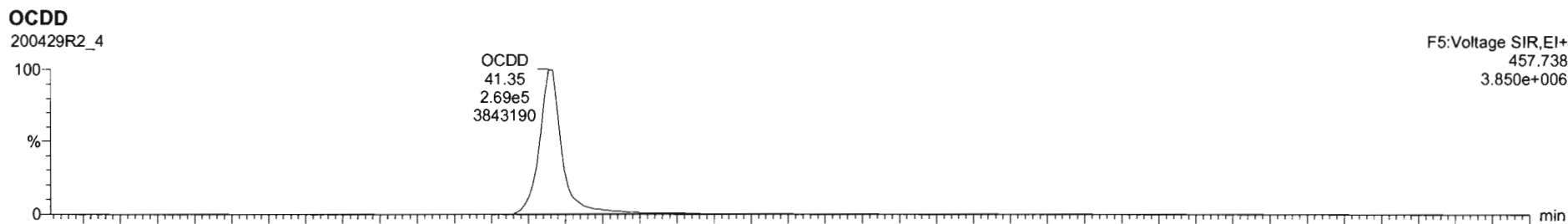
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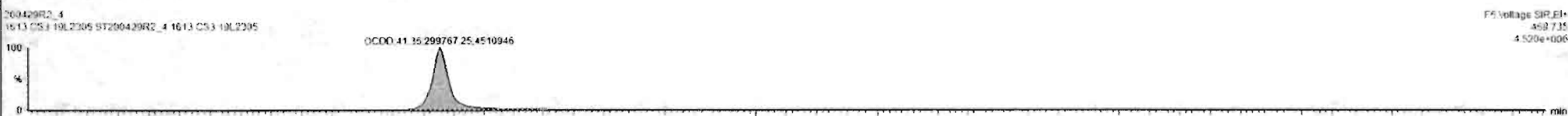
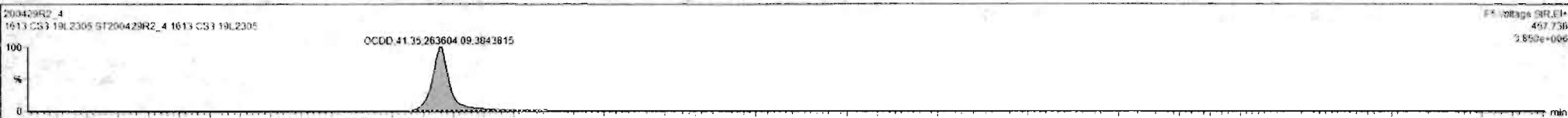
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305



#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4920e5	10.000	0.8	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.80	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.88	1.239	NO	4.1546e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	36.36	0.908	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.656	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.833	0.0261
8	2,2,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.757	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	3.4585e5	1.8722e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.96	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.76	1.173	NO	5.5706e5	1.2811e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1299e6	50.000	3.2	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1183e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3196e6	100.000	1.3	7.16	0.802	0.0575



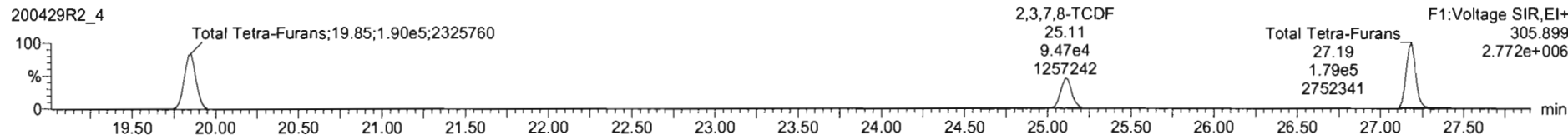
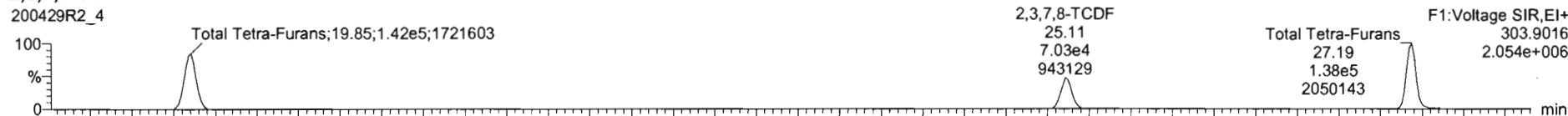
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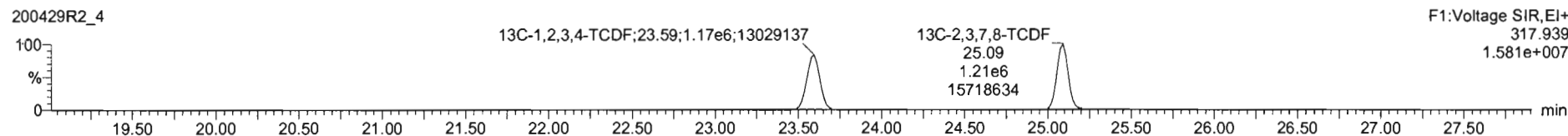
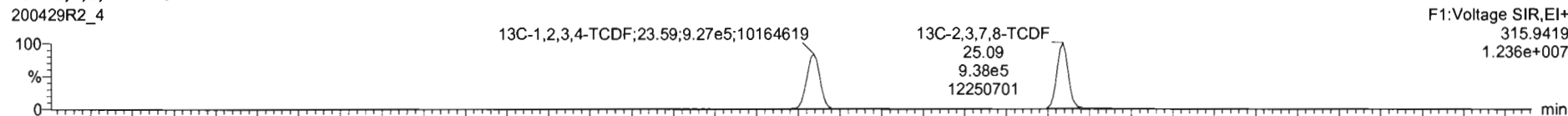
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_4, Date: 29-Apr-2020, Time: 15:48:39, ID: ST200429R2_4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

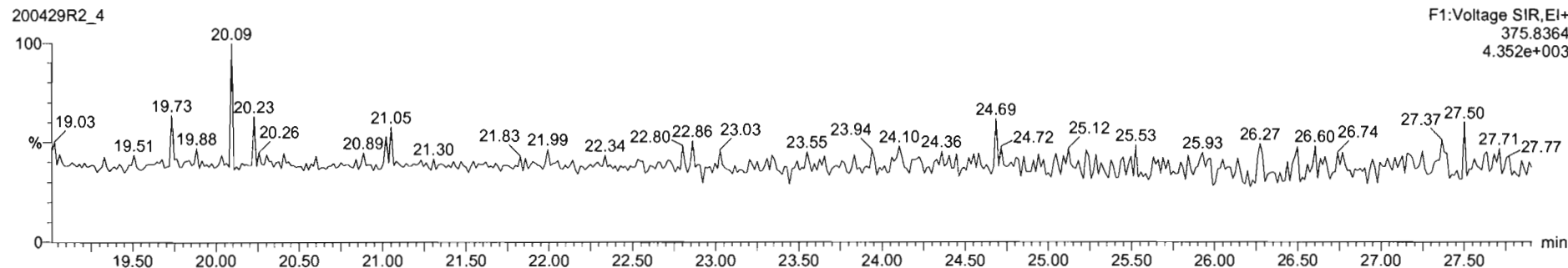
2,3,7,8-TCDF



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



DPE1



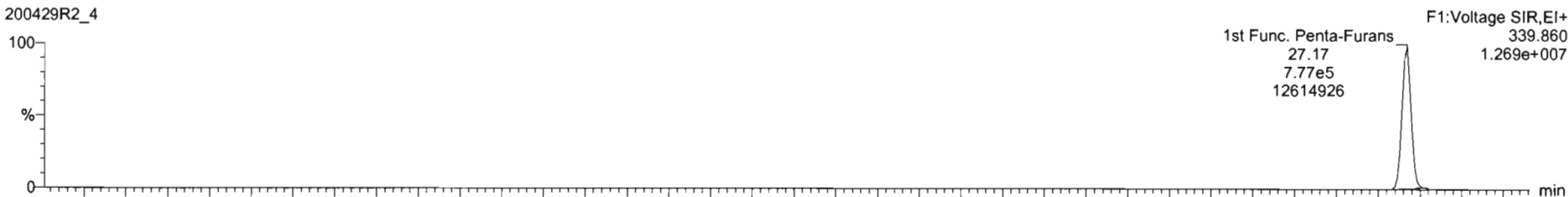
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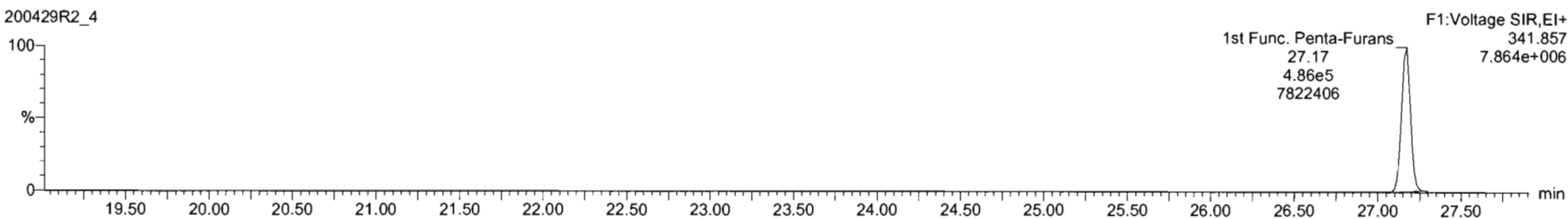
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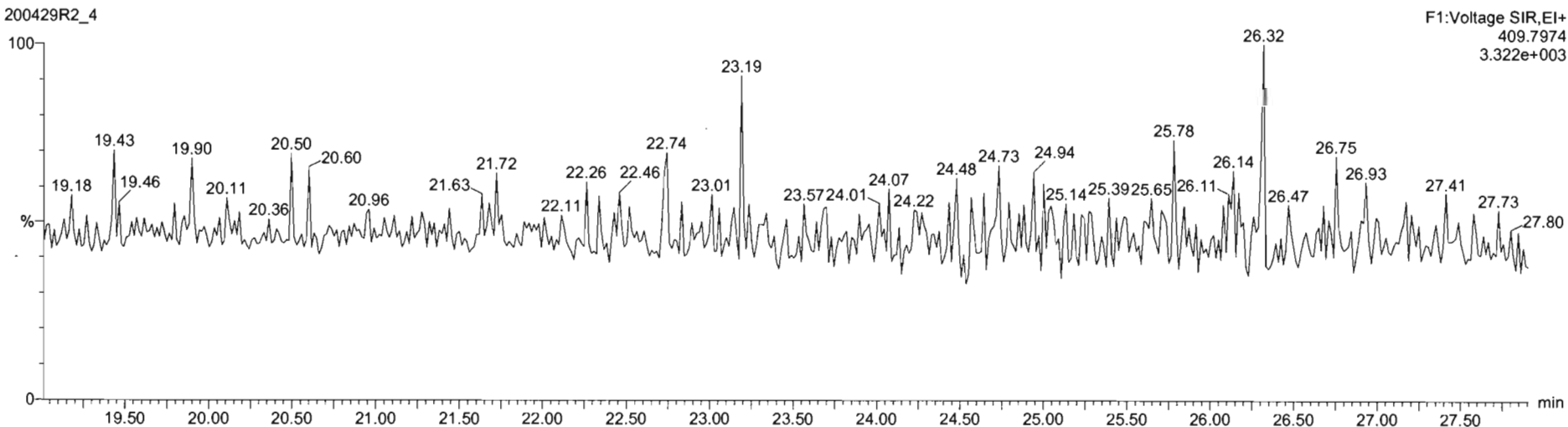


200429R2_4



DPE6

200429R2_4



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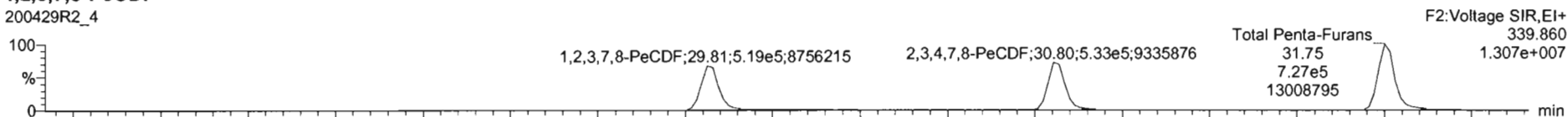
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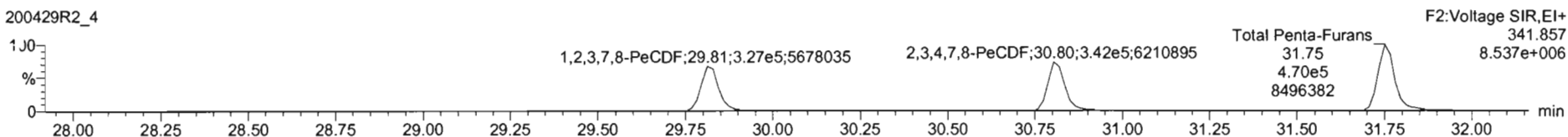
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1,2,3,7,8-PeCDF

200429R2_4

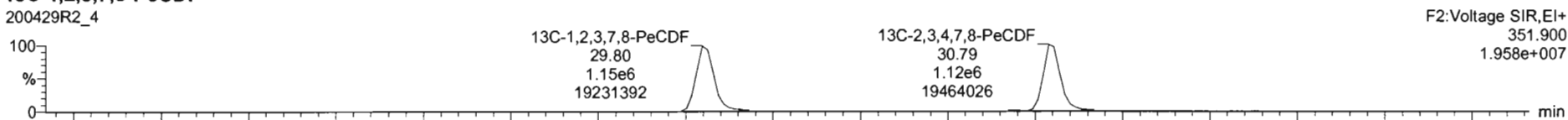


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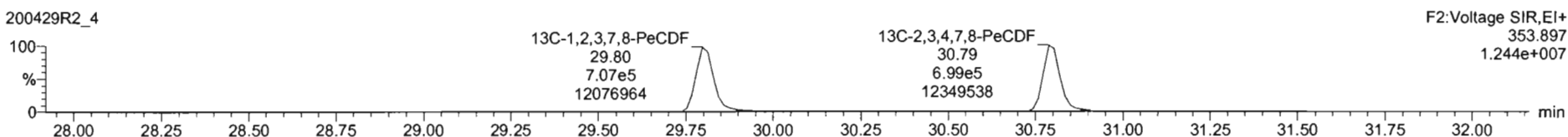


13C-1,2,3,7,8-PeCDF

200429R2_4

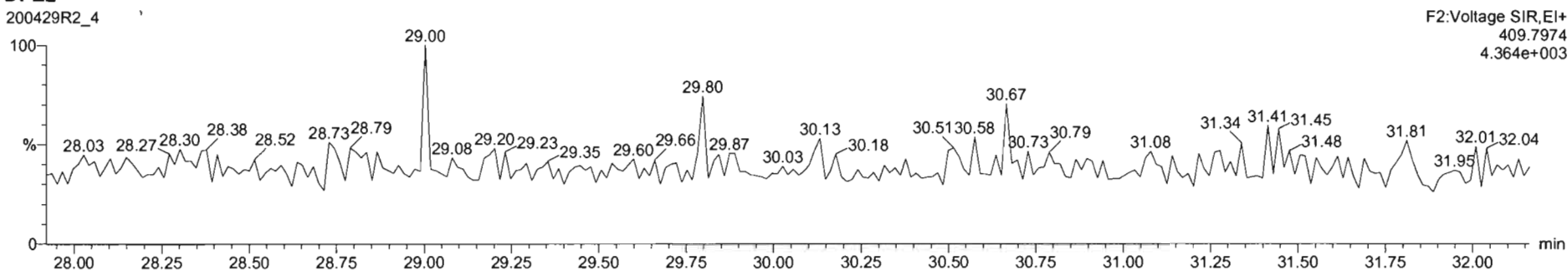


200429R2_4



DPE2

200429R2_4

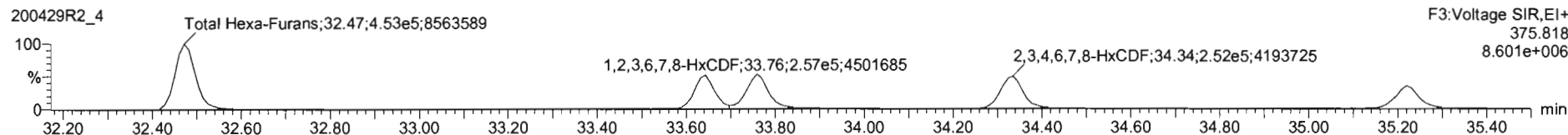
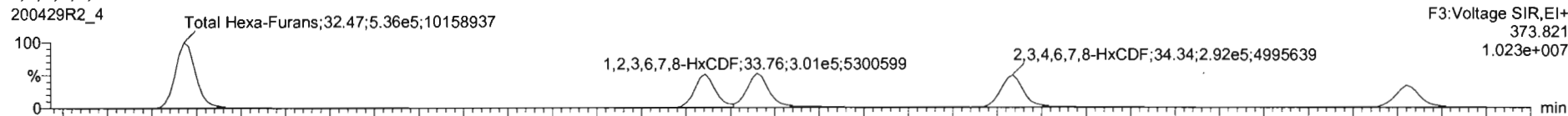


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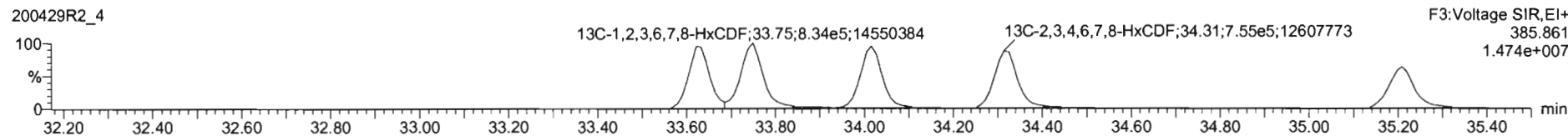
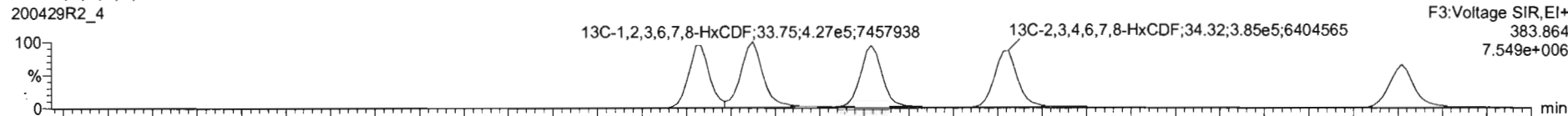
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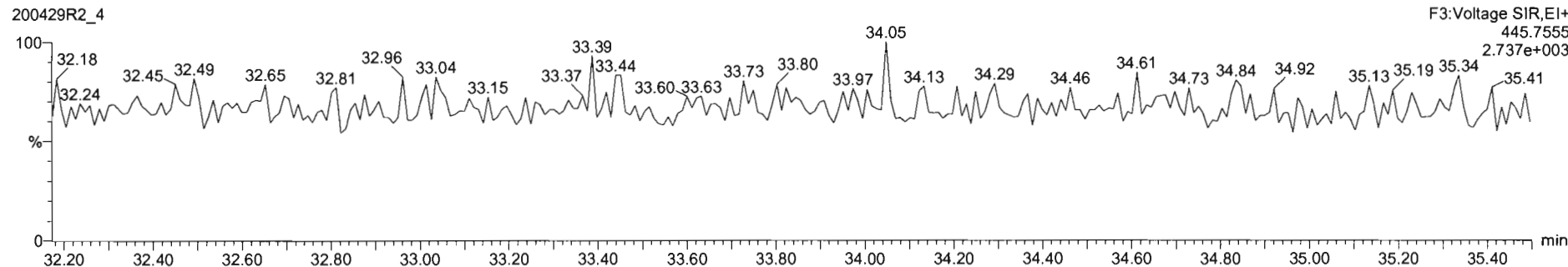
1,2,3,4,7,8-HxCDF



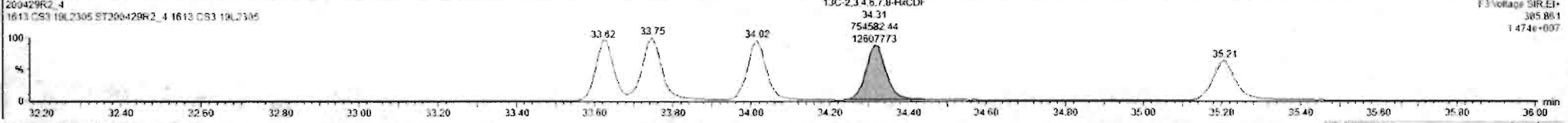
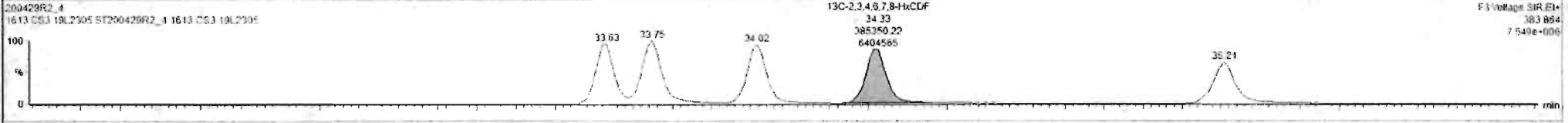
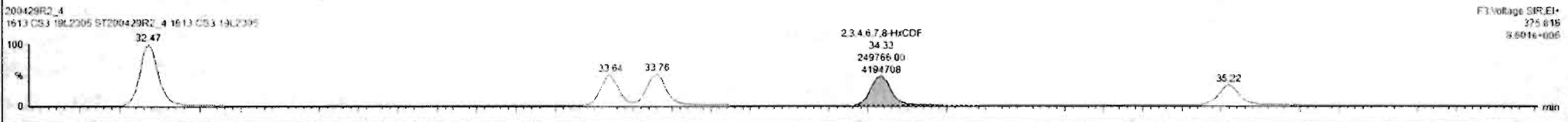
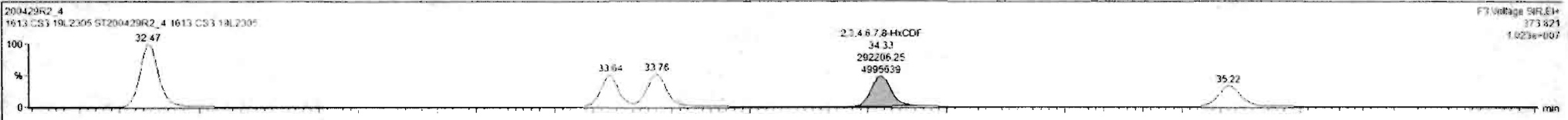
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DPE3



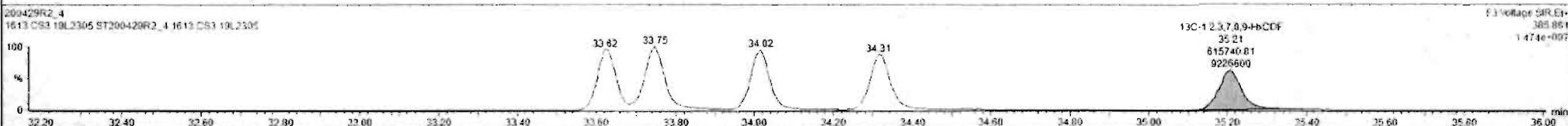
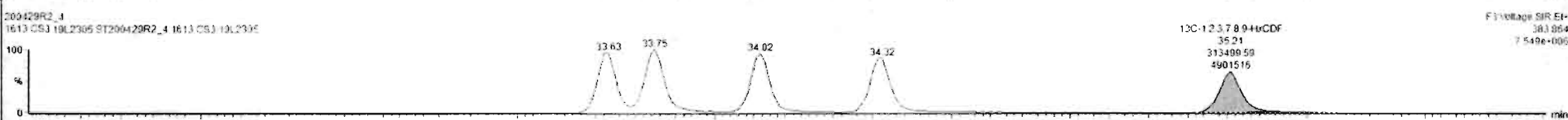
#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%PSD	RRF M.L.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.6	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4850e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.0790e6	50.000	-0.9	6.53	0.915	0.0597
5	1,2,3,7,8-HxCDF	34.88	1.219	NO	4.1946e5	9.5281e5	50.000	-1.8	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	38.36	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.93	0.856	0.0622
7	OCDD	41.35	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.089	NO	8.4785e5	1.6762e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.90	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1232e6	50.000	1.1	7.59	0.878	0.0686
12	1,2,3,6,7,8-HxCDF	33.75	1.173	NO	5.5786e5	1.2611e6	50.000	1.2	7.23	0.874	0.0652
13	2,3,4,6,7,8-HxCDF	34.33	1.171	NO	5.4192e5	1.1399e6	50.000	3.2	7.89	0.922	0.0765
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.7	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.952	NO	3.7224e5	6.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.998	NO	2.5973e5	5.1832e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.3639e5	1.3188e6	100.000	1.3	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2_4 CAP NUM

#	Name	RT	RA	ym	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e6	10.000	0.8	1.35	0.647	0.0507
2	1,2,3,7,8-PeCDD	21.13	0.616	NO	5.2678e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	24.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	24.80	1.202	NO	4.8027e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0567
5	1,2,3,7,8,9-HxCDD	24.98	1.219	NO	4.1546e5	9.3381e5	50.000	-1.5	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	26.38	0.988	NO	2.0768e5	6.7896e5	50.000	1.0	6.92	0.856	0.0622
7	OCDD	41.25	0.879	NO	5.6337e5	1.1777e6	100.000	2.5	7.57	0.613	0.0707
8	2,3,7,8-TCDF	25.11	0.743	NO	1.6505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4165e5	1.6682e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7458e5	1.8179e6	50.000	-0.4	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.6312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.23	1.170	NO	5.4197e5	1.1394e6	50.000	3.1	7.69	0.902	0.0709
14	1,2,3,7,8,9-HxCDF	35.22	1.164	IB	4.6244e5	9.2024e5	50.000	0.2	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7234e5	8.6485e5	50.000	-1.2	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5973e5	5.1182e5	50.000	0.3	6.82	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.1650e5	1.3198e6	100.000	1.5	7.16	0.802	0.0575



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200429R2_4 CAP NUM

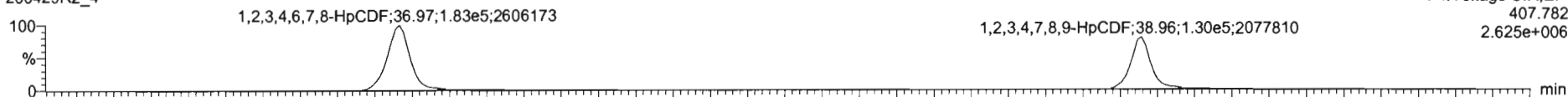
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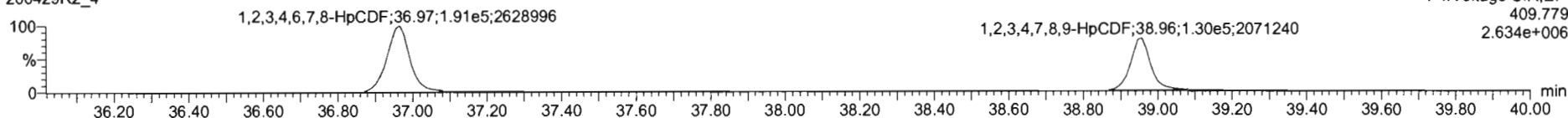
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200429R2_4

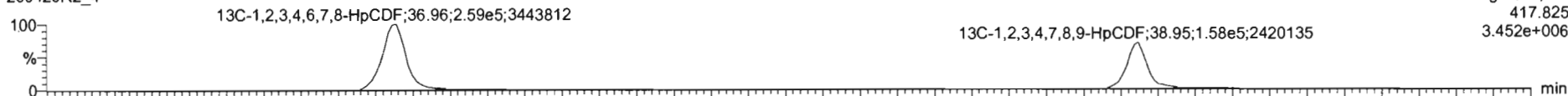


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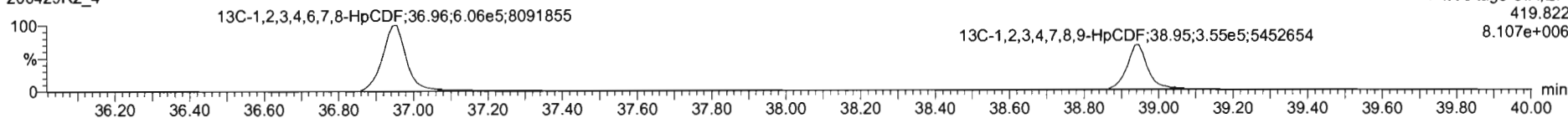


13C-1,2,3,4,6,7,8-HpCDF

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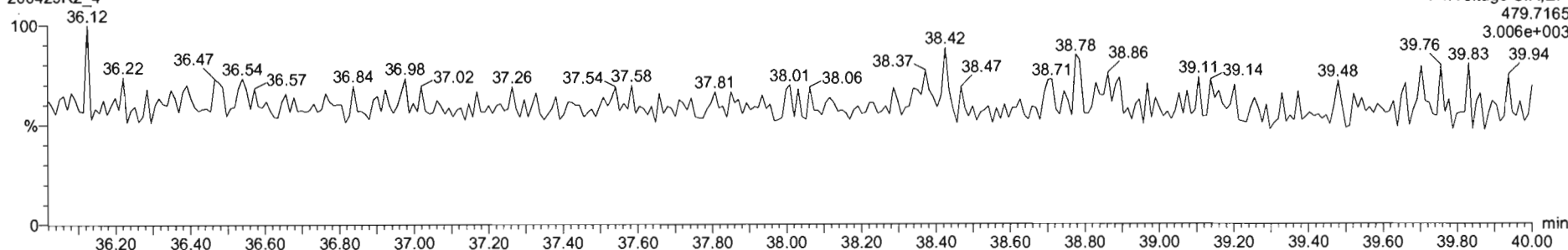


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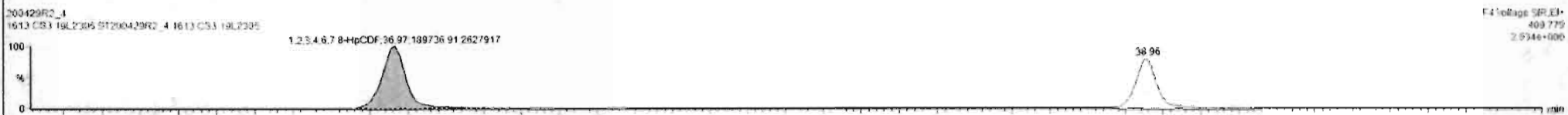


DPE4

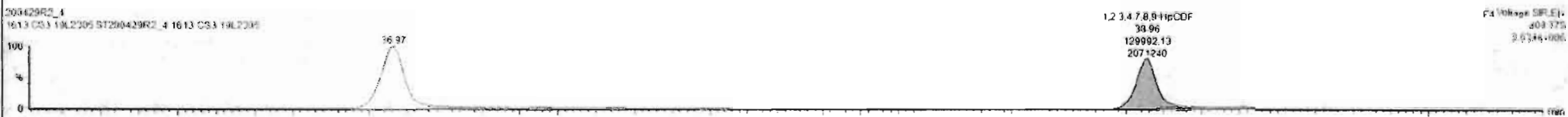
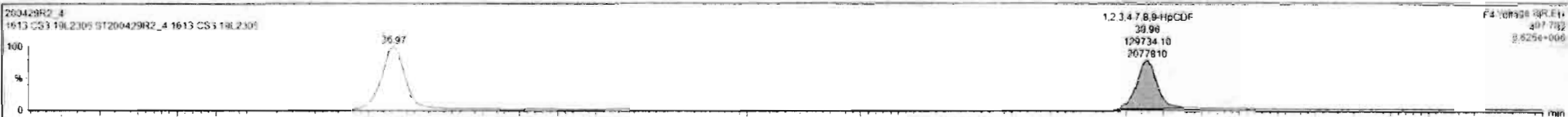
200429R2_4



#	s	Name	RT	RA	y/n	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1	1,2,3,7,8-TCDD	26.07	0.751	NO	1.4250e5	1.4820e6	10.000	0.8	5.25	0.947	0.0587
2	2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.2679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	3.4852e5	50.000	-2.2	6.62	1.06	0.0704
4	4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.6796e6	50.000	-0.9	6.53	0.915	0.0597
5	5	1,2,3,7,8,9-HxCDD	34.88	1.238	NO	4.1948e5	9.3381e5	50.000	-1.8	7.64	0.915	0.0699
6	6	1,2,3,4,6,7,8-HpCDD	36.38	0.988	NO	3.0769e5	6.7896e5	50.000	1.0	6.90	0.856	0.0622
7	7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.8	7.57	0.933	0.0767
8	8	1,2,3,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e6	10.000	-2.4	5.11	0.767	0.0402
9	9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4565e5	1.6562e6	50.000	0.0	5.86	0.910	0.0533
10	10	1,2,3,4,7,8-PeCDF	30.80	1.558	NO	8.7458e5	1.6179e6	50.000	-0.4	4.98	0.966	0.0461
11	11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0668
12	12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2611e6	50.000	1.2	7.23	0.874	0.0632
13	13	1,2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4191e5	1.1799e6	50.000	3.2	7.69	0.922	0.0709
14	14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.864	0.0517
15	15	1,2,3,4,6,7,8-HpCDF	36.87	0.862	NO	3.7234e5	6.6465e5	50.000	-1.2	7.54	0.871	0.0657
16	16	1,2,3,4,7,8,9-HpCDF	38.98	0.998	NO	2.5673e5	5.1182e5	50.000	0.3	6.62	1.01	0.0670
17	17	OCDF	41.53	0.862	NO	5.2639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



#	Name	RT	RA	y/n	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.07	0.761	NO	1.4250e5	1.4920e5	10.000	0.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.13	0.616	NO	5.3679e5	1.1411e6	50.000	-0.2	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.220	NO	4.4168e5	8.4852e5	50.000	-2.2	6.62	1.06	0.0764
4	1,2,3,6,7,8-HxCDD	34.60	1.202	NO	4.8927e5	1.0796e6	50.000	-0.9	6.53	0.915	0.0562
5	1,2,3,7,8,9-HxCDD	34.68	1.213	NO	4.1946e5	9.3815e5	50.000	-1.6	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.38	0.988	NO	3.0765e5	6.7896e5	50.000	1.0	8.93	0.896	0.0622
7	OCDD	41.35	0.879	NO	5.6237e5	1.1777e6	100.000	2.5	7.57	0.933	0.0707
8	2,2,7,8-TCDF	25.11	0.743	NO	1.8505e5	2.1491e5	10.000	-2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.589	NO	8.4585e5	1.6581e6	50.000	0.0	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.80	1.559	NO	8.7488e5	1.8179e6	50.000	-0.4	4.98	0.968	0.0461
11	1,2,3,4,7,8-HxCDF	33.64	1.215	NO	5.0312e5	1.1332e6	50.000	1.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.78	1.173	NO	5.5706e5	1.2E11e6	50.000	1.2	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.170	NO	5.4197e5	1.1999e6	50.000	3.2	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.168	NO	4.0244e5	9.2924e5	50.000	0.2	5.96	0.804	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.962	NO	3.7274e5	8.6485e5	50.000	-1.2	7.54	0.671	0.0657
16	1,2,3,4,7,8,9-HxCDF	38.96	0.998	NO	2.5973e5	5.1163e5	50.000	0.3	6.62	1.01	0.0670
17	OCDF	41.53	0.862	NO	5.7639e5	1.3198e6	100.000	1.3	7.16	0.802	0.0575



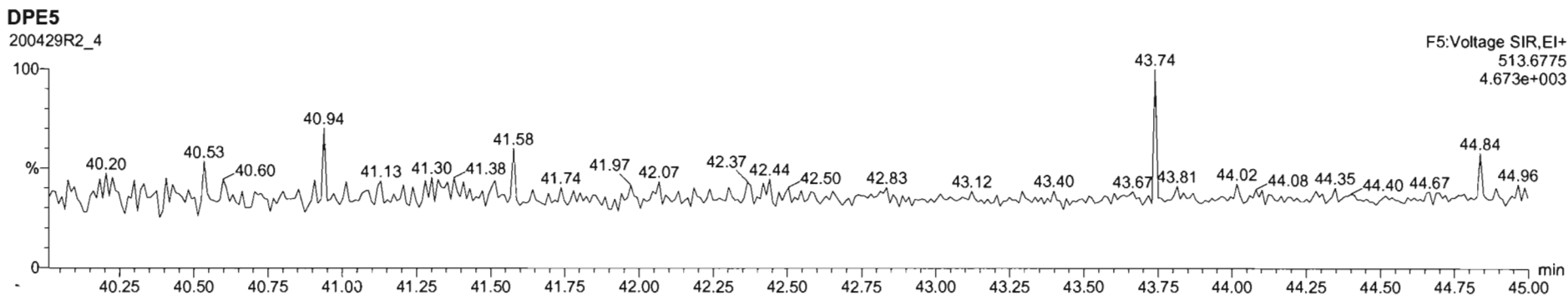
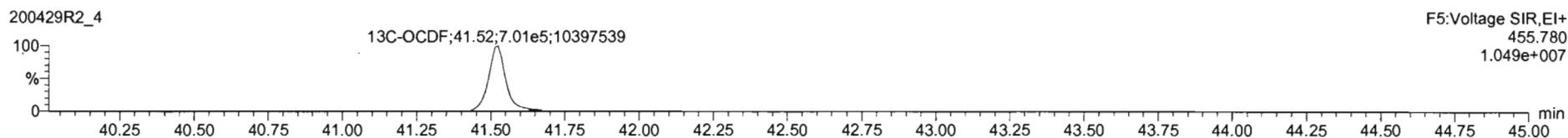
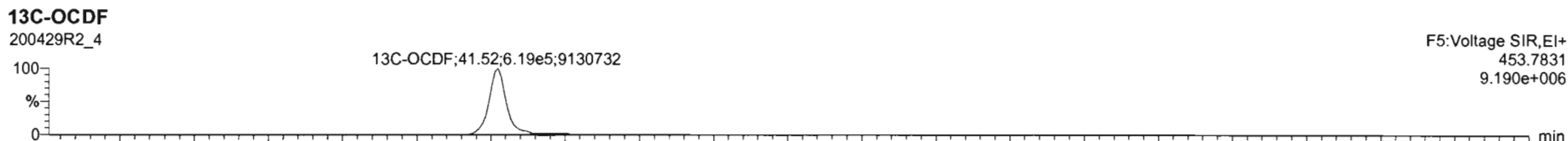
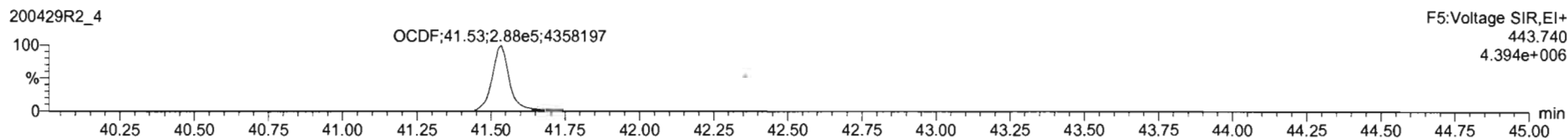
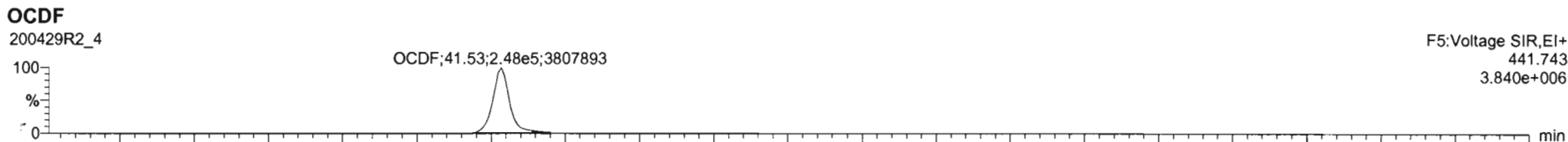
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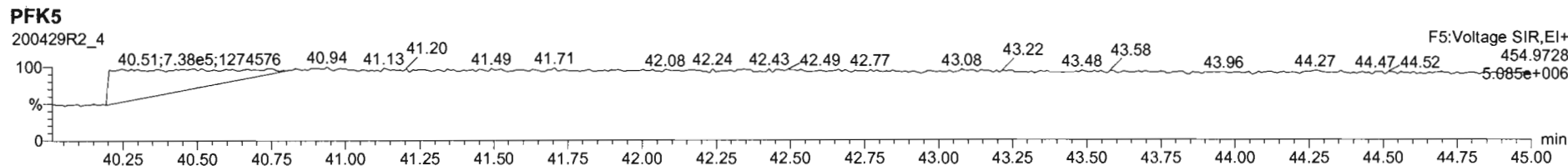
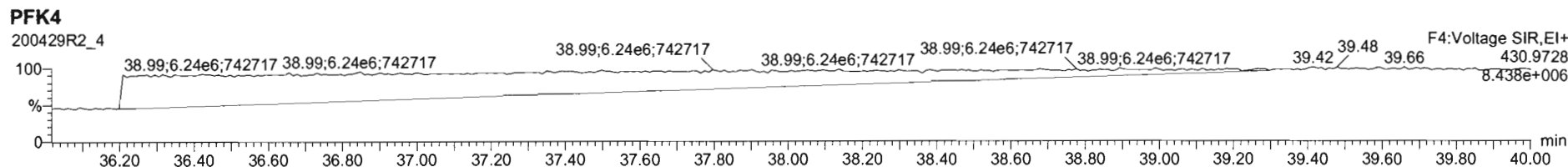
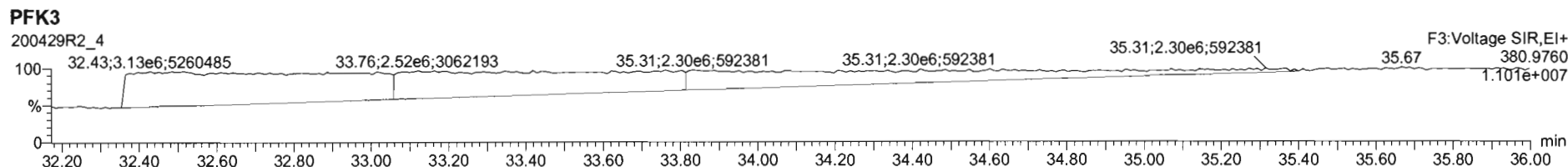
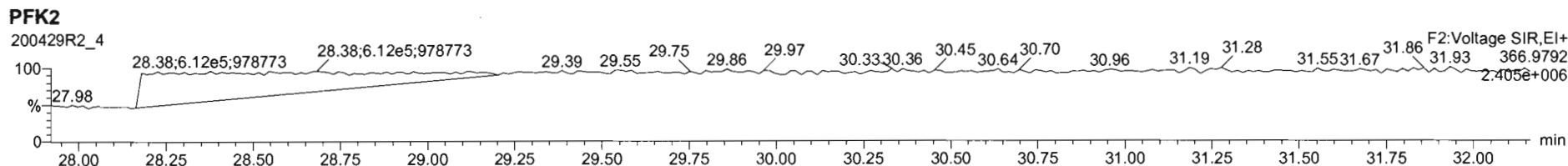
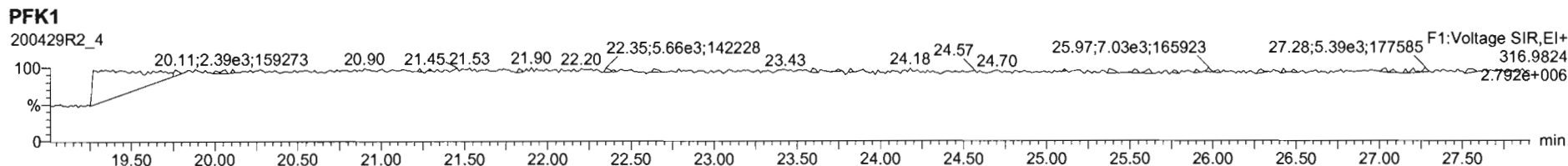
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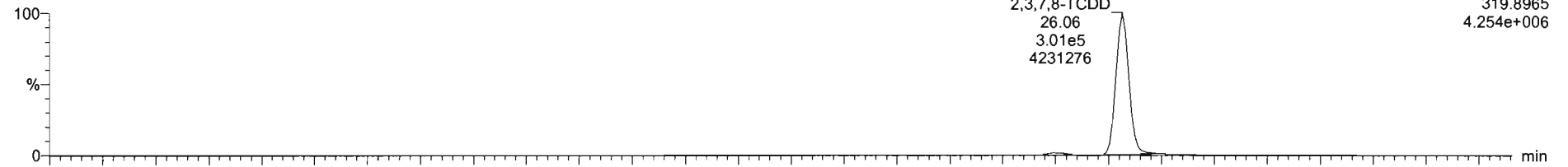
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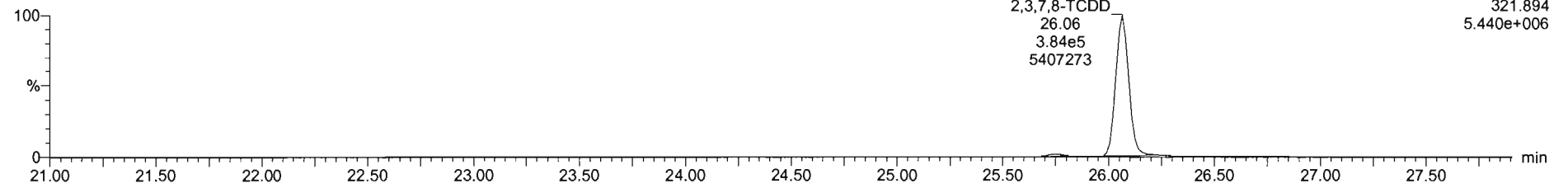
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2,3,7,8-TCDD

200429R2_5

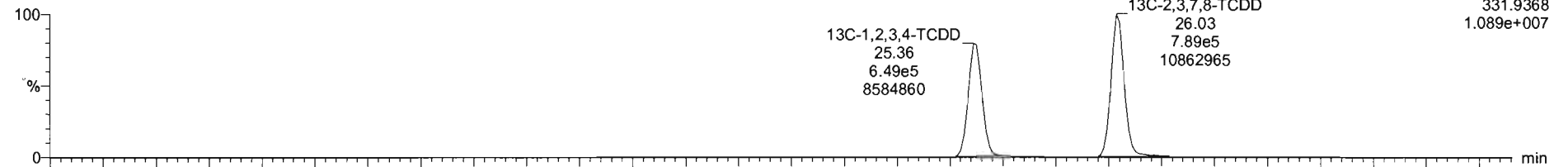


200429R2_5

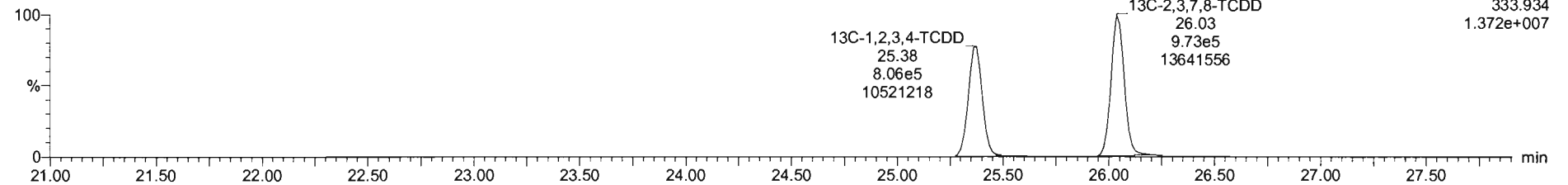


13C-2,3,7,8-TCDD

200429R2_5



200429R2_5



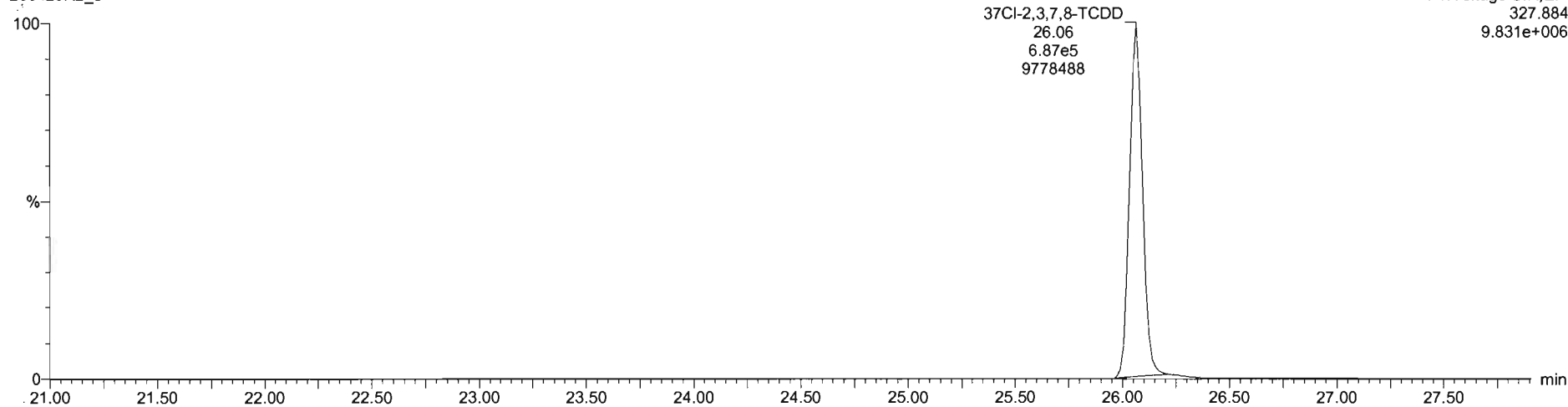
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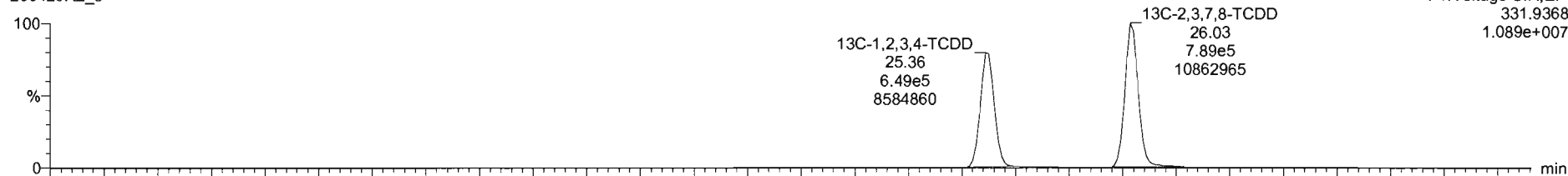
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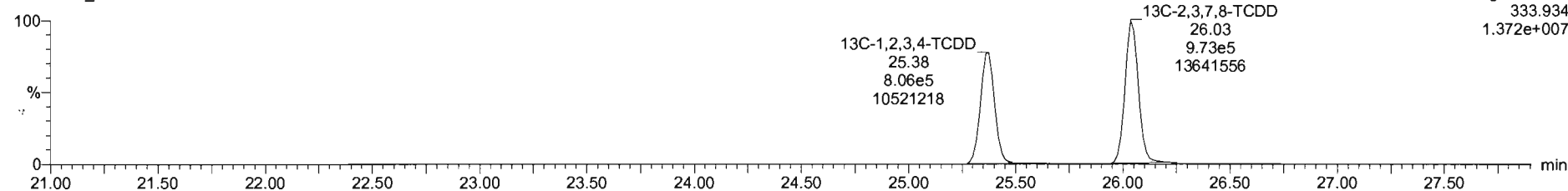


13C-1,2,3,4-TCDD

200429R2_5



200429R2_5



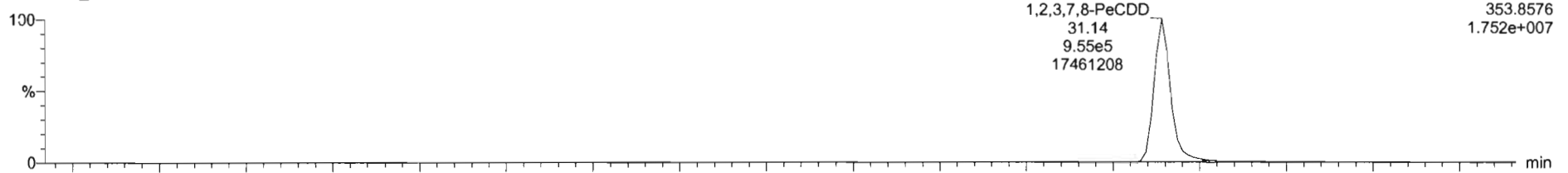
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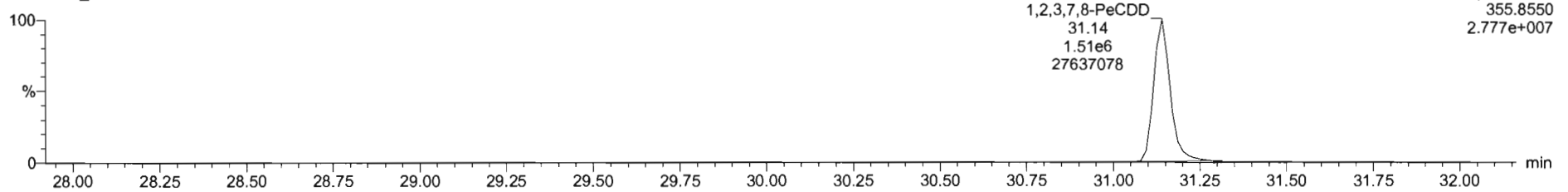
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1,2,3,7,8-PeCDD

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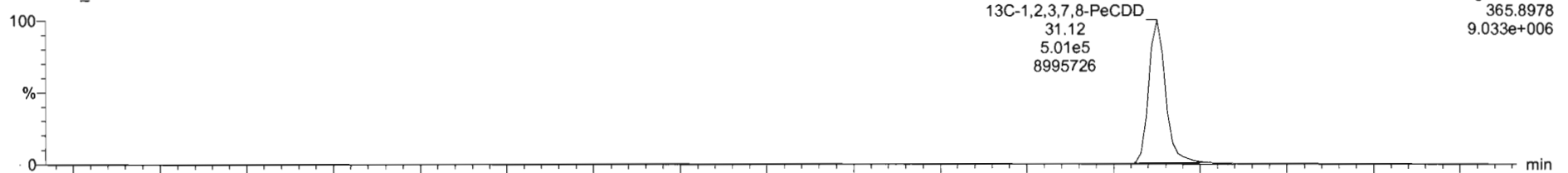


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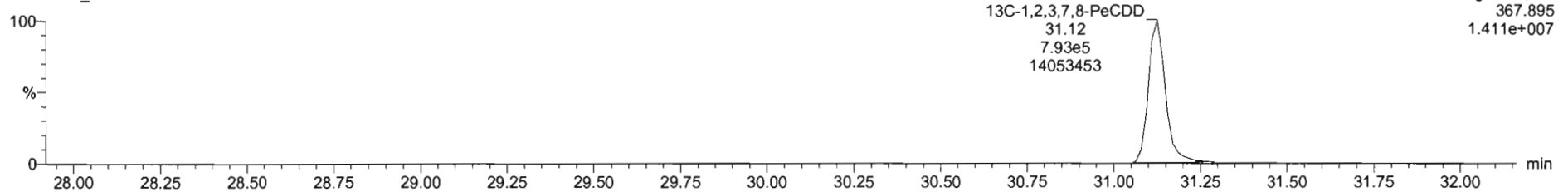


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200429R2_5



200429R2_5



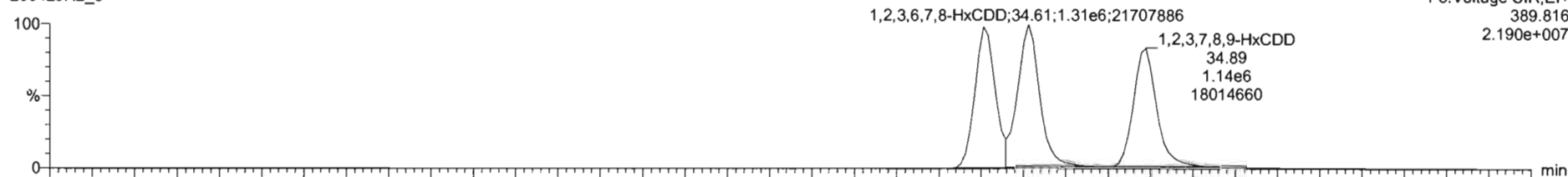
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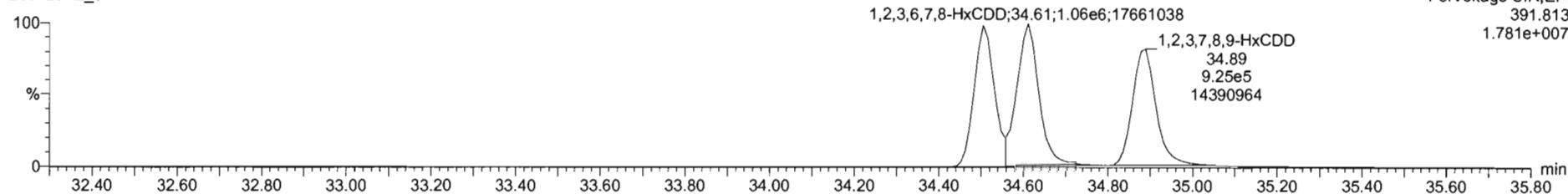
1,2,3,4,7,8-HxCDD

200429R2_5



F3:Voltage SIR,EI+
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2.190e+007

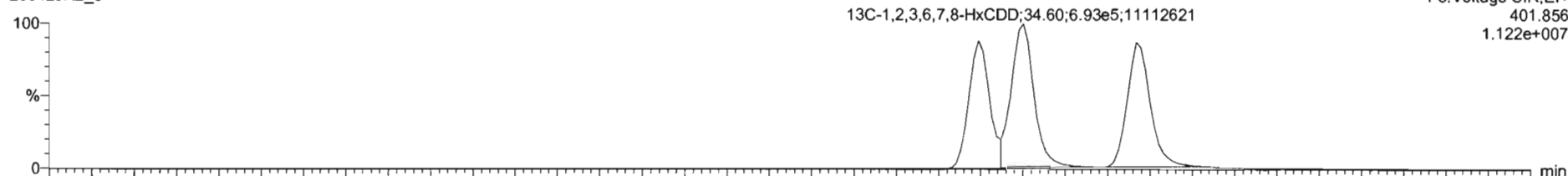
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1.781e+007

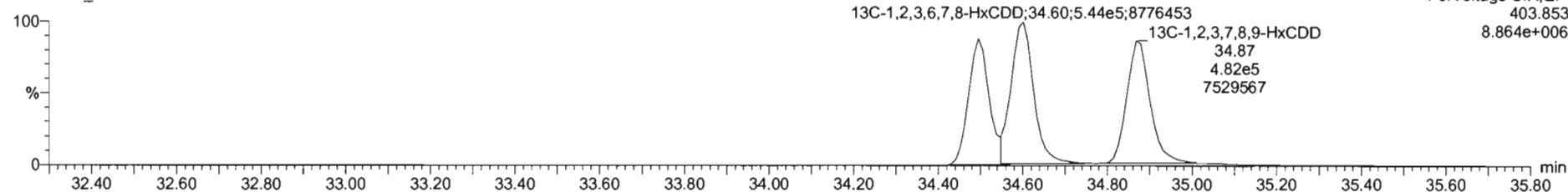
13C-1,2,3,4,7,8-HxCDD

200429R2_5



F3:Voltage SIR,EI+
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1.122e+007

200429R2_5



F3:Voltage SIR,EI+
403.853
8.864e+006

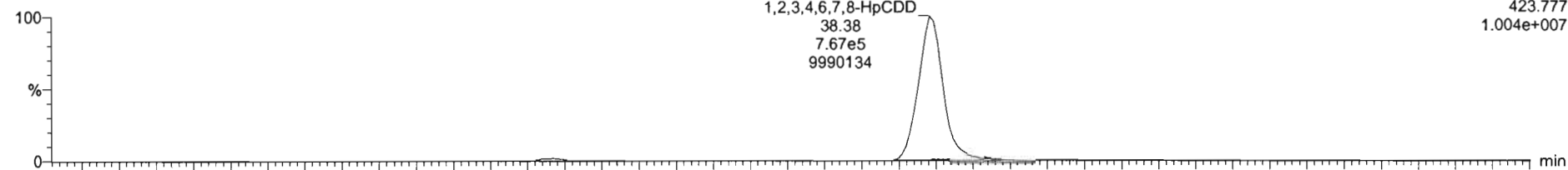
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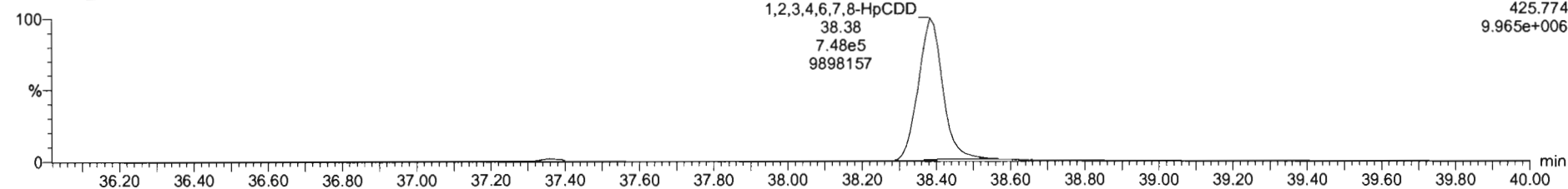
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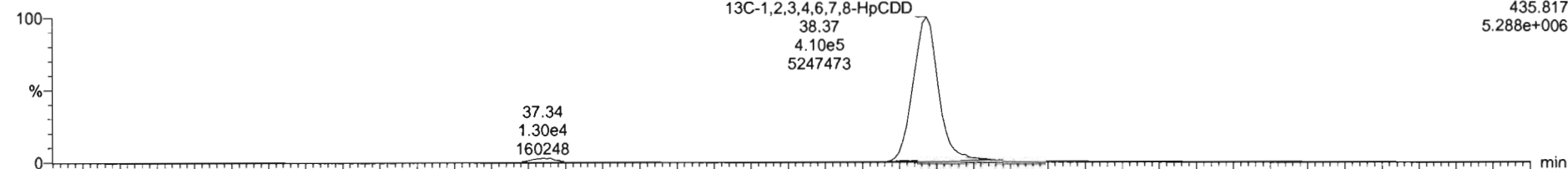


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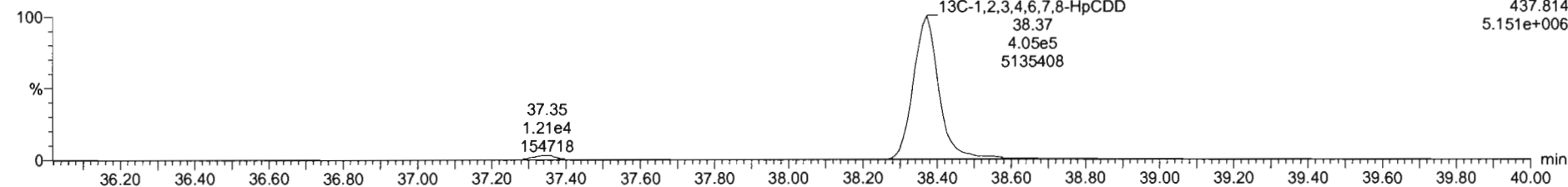


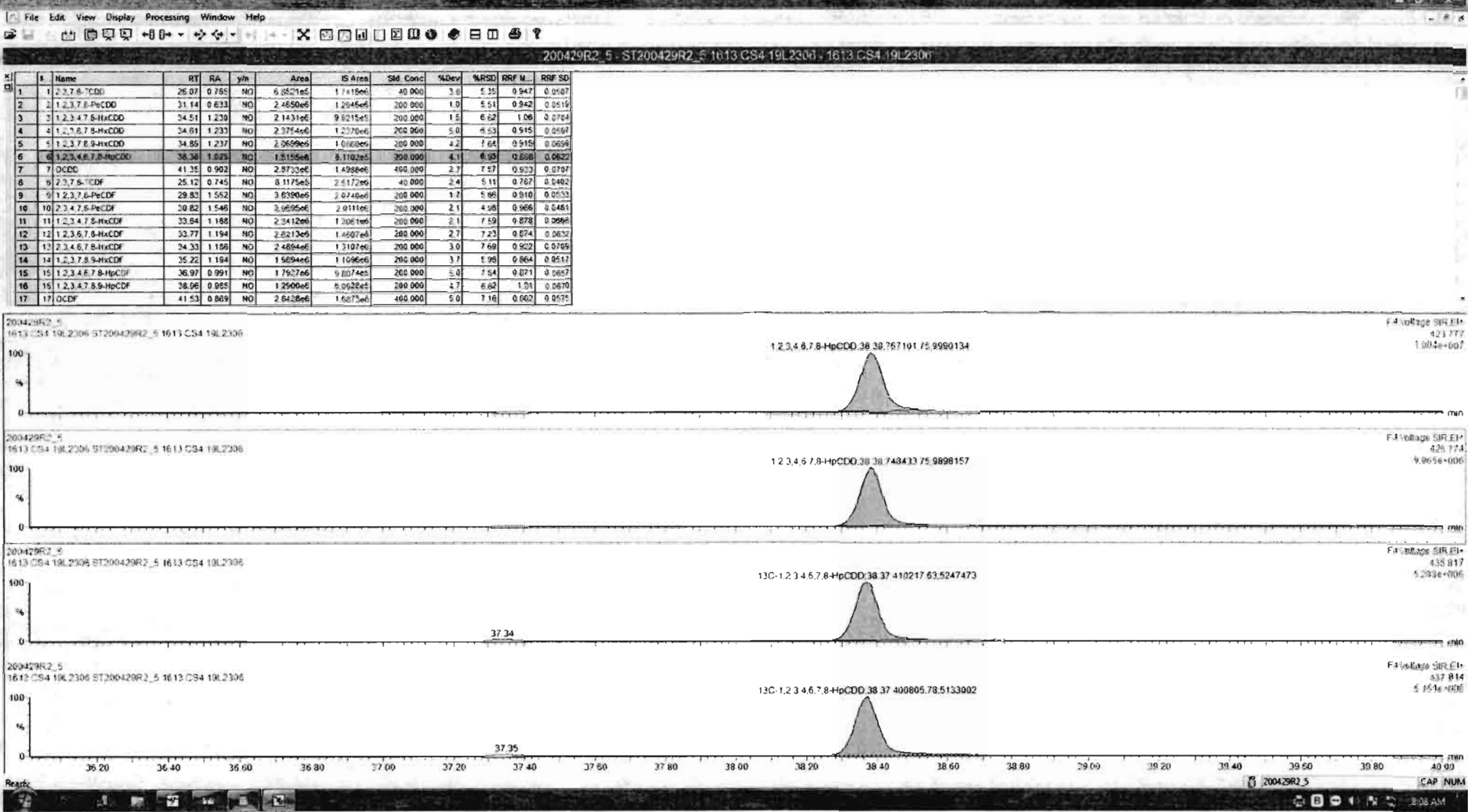
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200429R2_5



200429R2_5

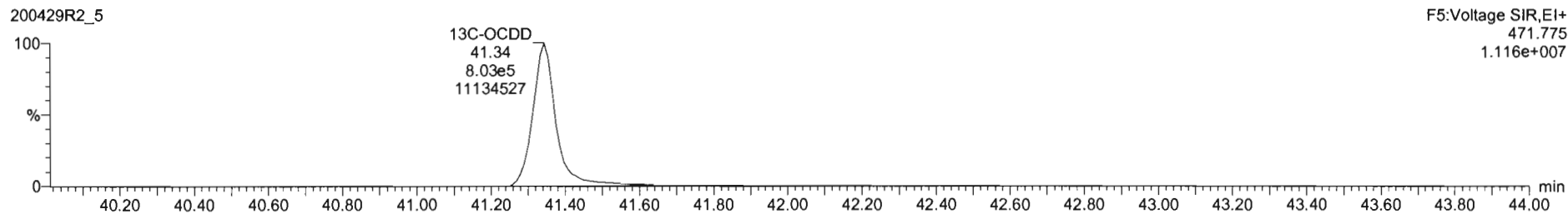
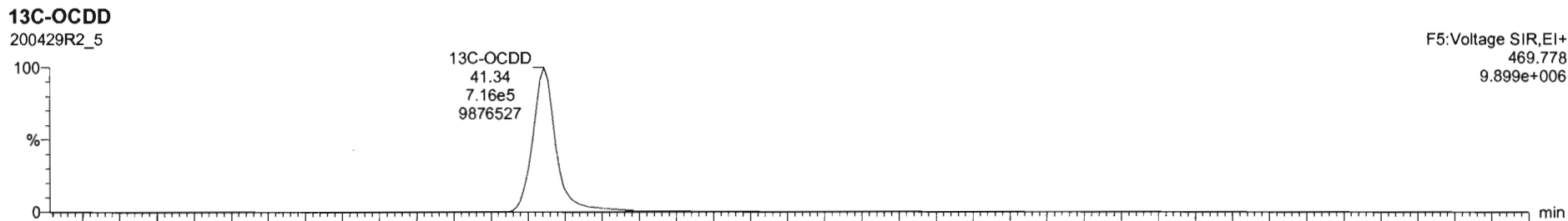
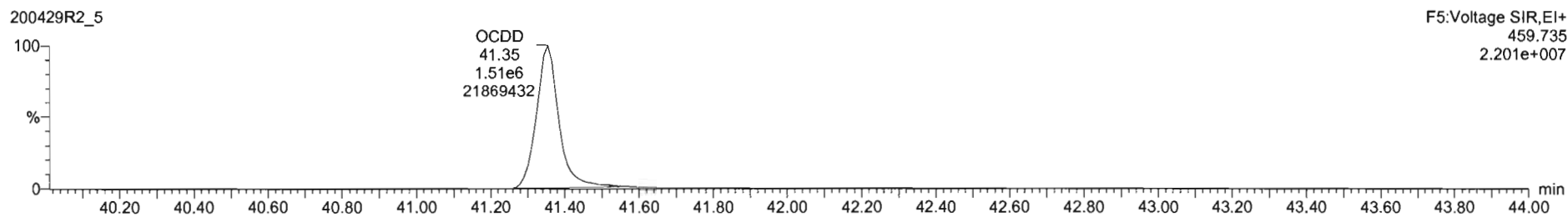
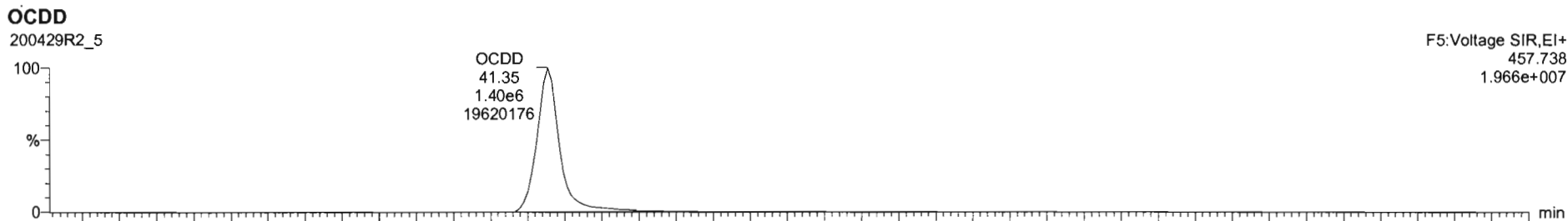




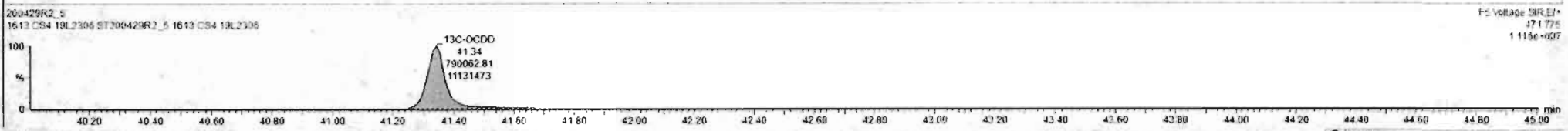
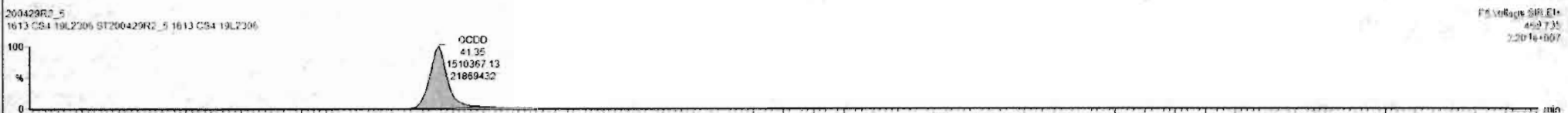
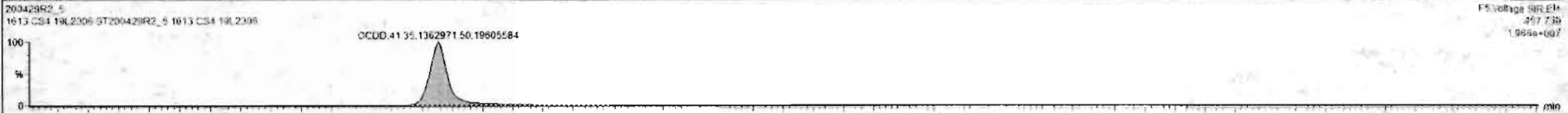
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#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	2,3,7,8-TCDD	28.07	0.785	NO	6.6521e5	1.7418e6	40.000	2.0	5.35	0.947	0.0507
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e5	1.2946e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.5215e6	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.89	1.237	NO	2.0659e5	1.0860e5	200.000	4.2	7.64	0.915	0.0656
6	1,2,3,4,6,7,8-HpCDD	36.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	6.92	0.856	0.0520
7	OCDD	41.35	0.962	ND	2.8733e6	1.4889e6	400.000	2.7	7.57	0.933	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	8.1175e5	2.5172e6	40.000	2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.83	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.82	1.546	NO	3.9655e6	2.0111e6	200.000	2.1	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.158	NO	2.3412e6	1.3061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.186	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	1.9654e6	1.1056e6	200.000	3.7	5.98	0.864	0.0512
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7927e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.96	0.965	NO	1.2500e5	6.9528e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6673e6	400.000	5.0	7.16	0.802	0.0575



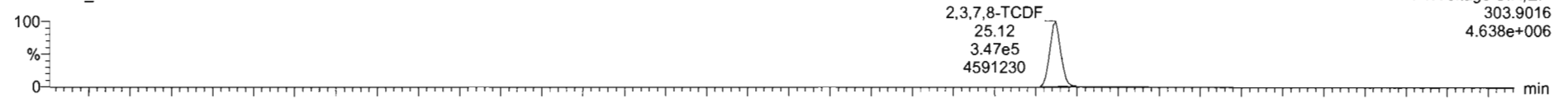
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

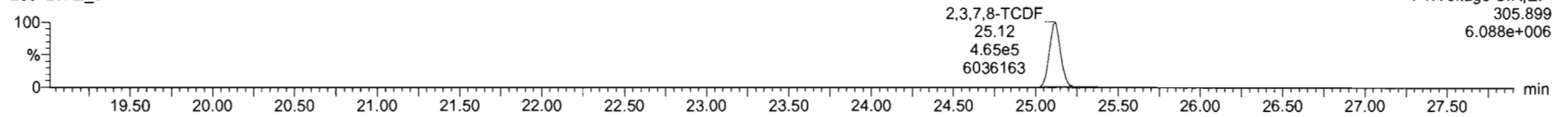
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2,3,7,8-TCDF

200429R2_5

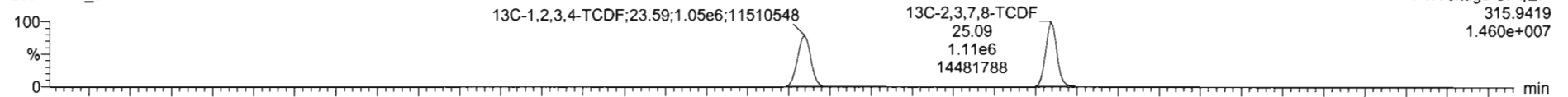


200429R2_5

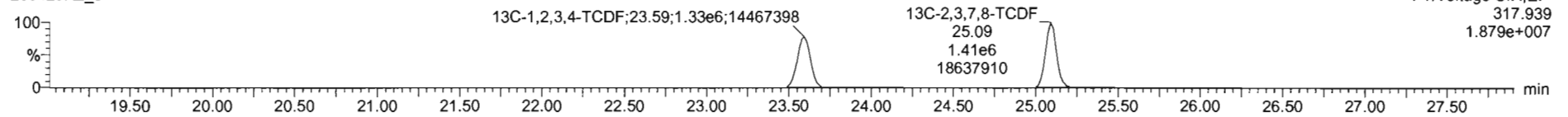


13C-2,3,7,8-TCDF

200429R2_5

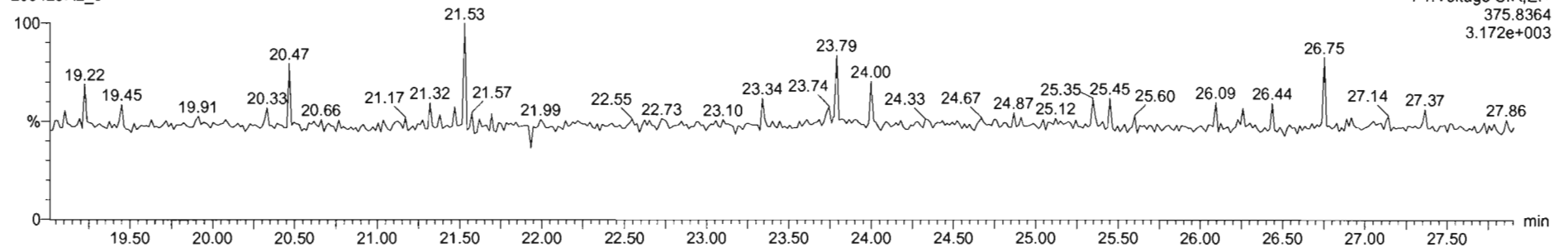


200429R2_5



DPE1

200429R2_5



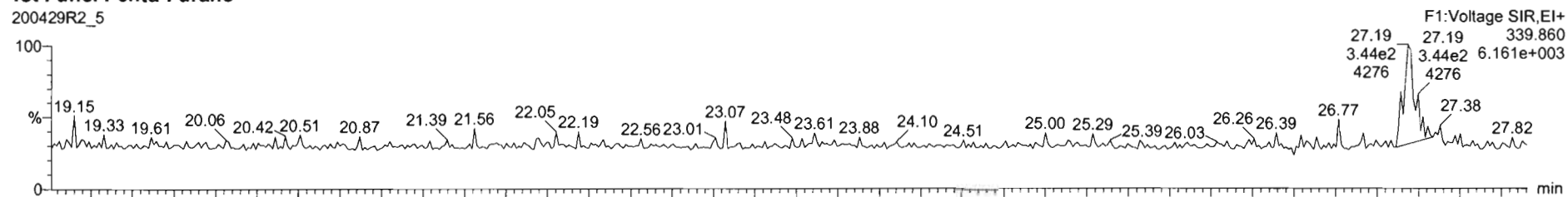
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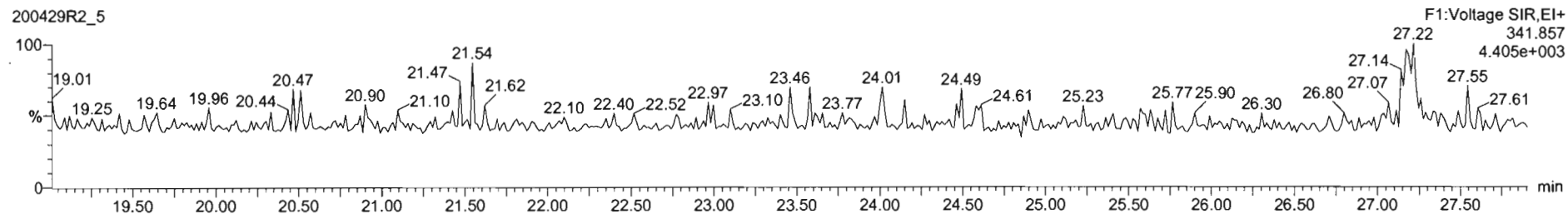
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1st Func. Penta-Furans

200429R2_5

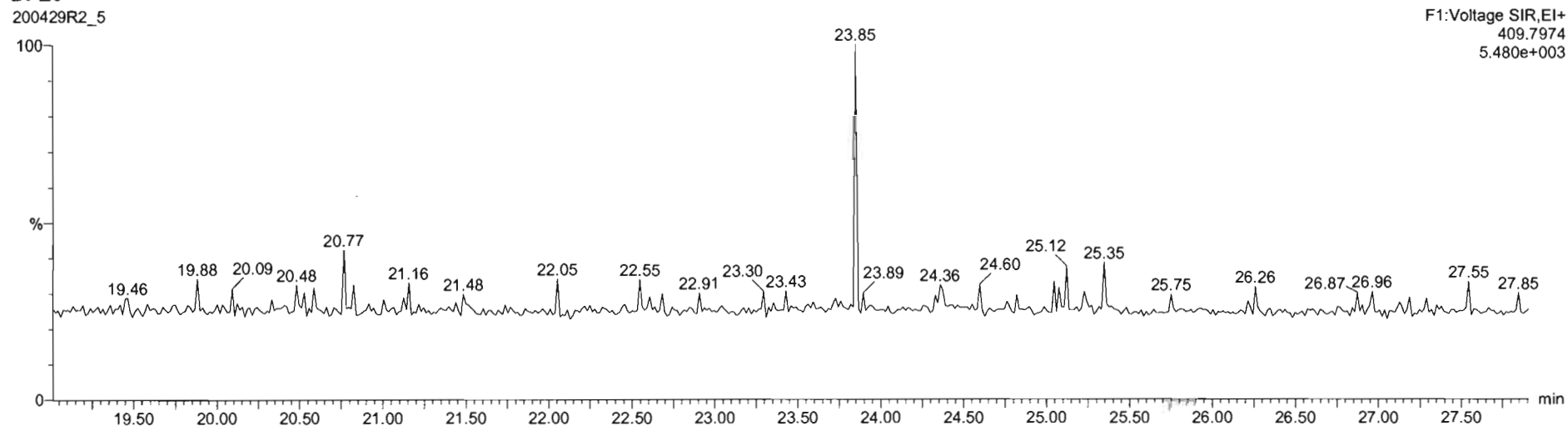


200429R2_5



DPE6

200429R2_5



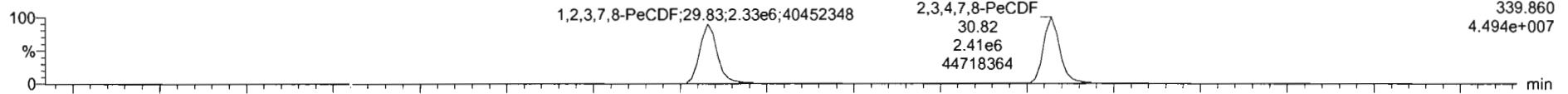
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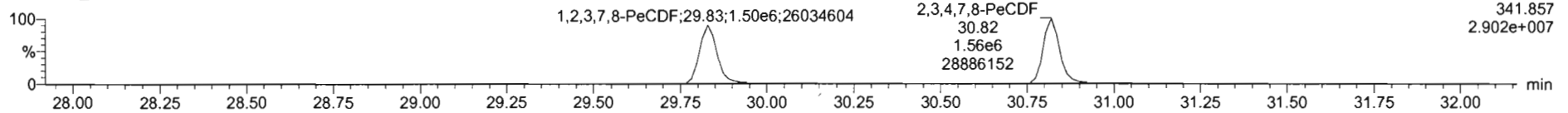
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1,2,3,7,8-PeCDF

200429R2_5

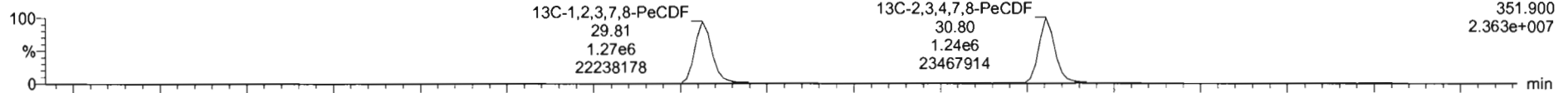


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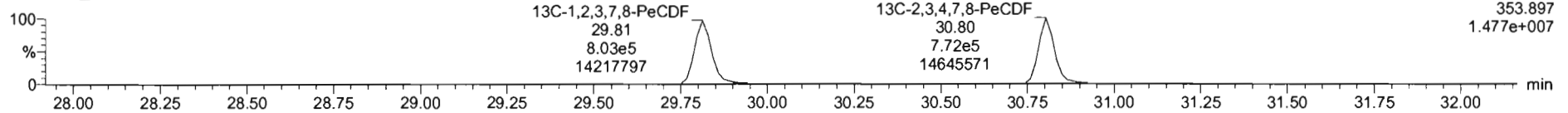


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200429R2_5

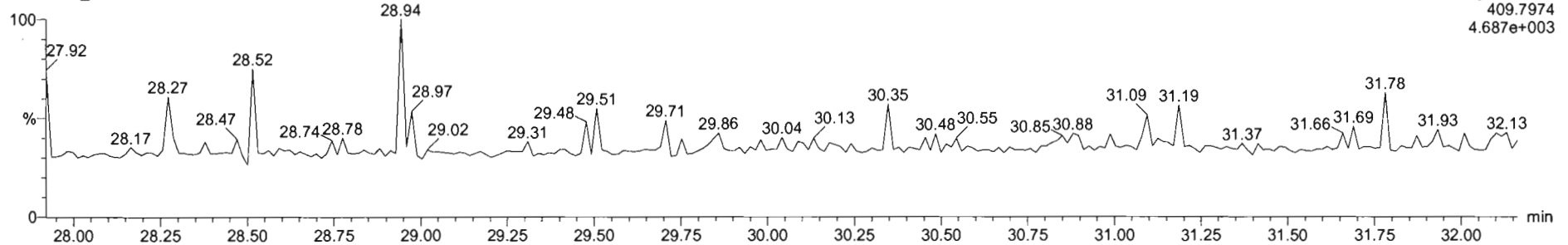


200429R2_5



DPE2

200429R2_5



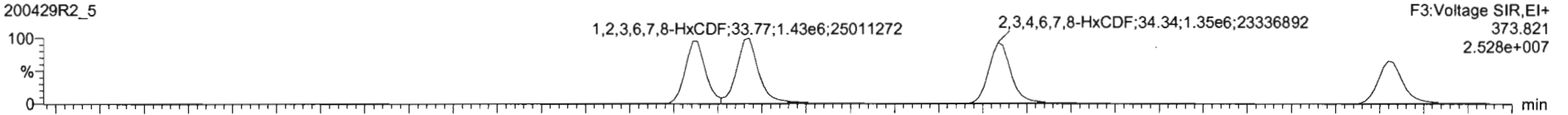
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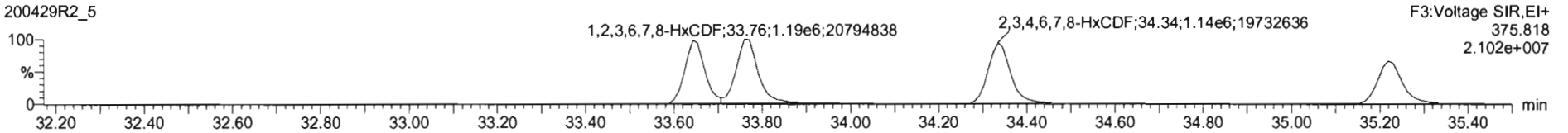
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1,2,3,4,7,8-HxCDF

200429R2_5

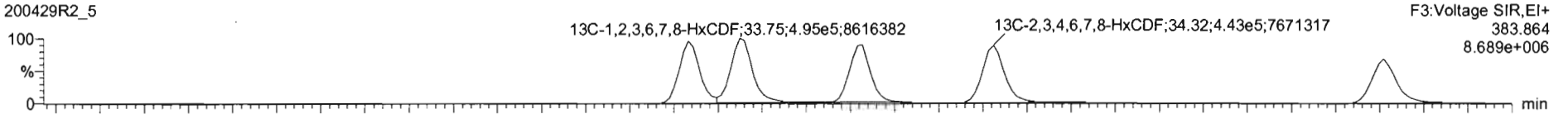


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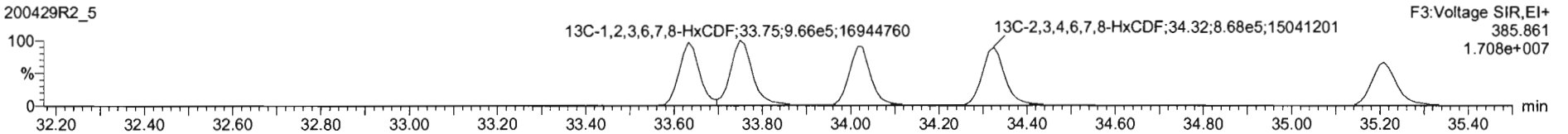


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200429R2_5

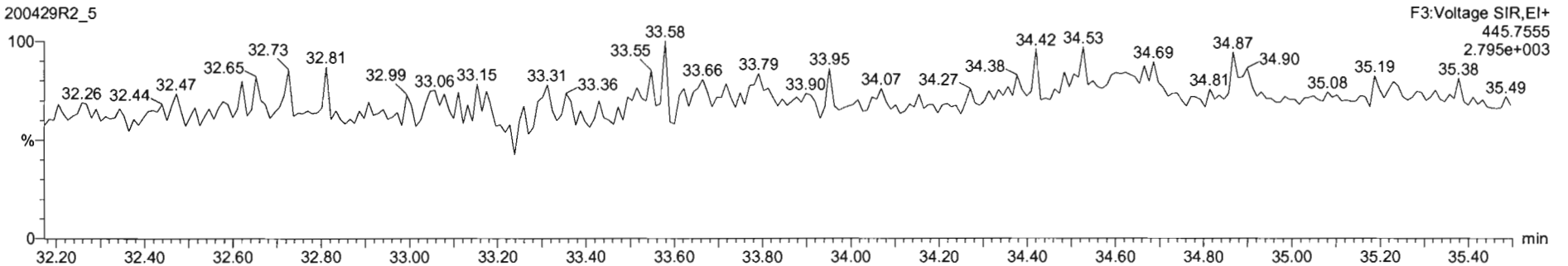


200429R2_5

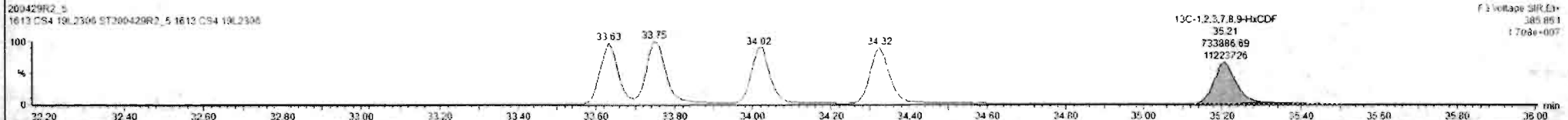
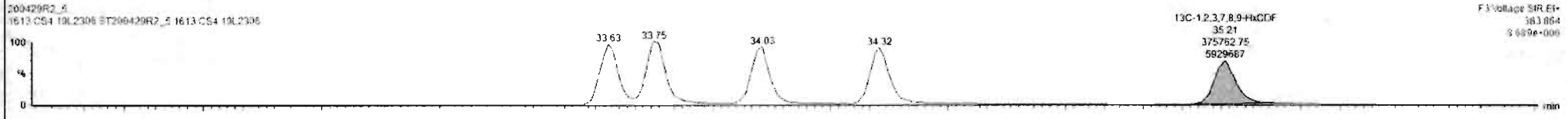
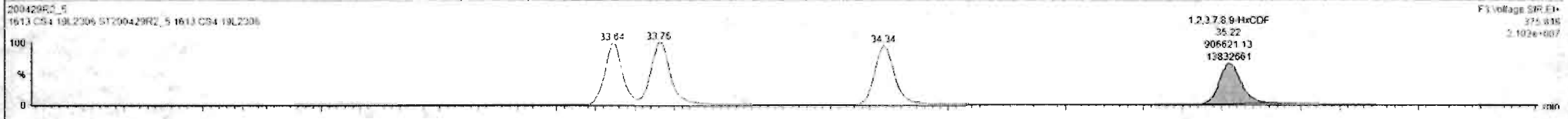


DPE3

200429R2_5



#	Name	RT	RA	yh	Area	IS Area	Std Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.97	0.785	NO	6.6521e5	1.7418e6	40.000	2.6	5.25	0.947	0.0597
2	1,2,3,7,8-PeCDD	31.14	0.633	NO	2.4650e6	1.2646e6	200.000	1.0	5.51	0.942	0.0519
3	1,2,3,4,7,8-HxCDD	34.51	1.230	NO	2.1431e6	9.9215e5	200.000	1.5	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.81	1.233	NO	2.3754e6	1.2270e6	200.000	5.0	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.89	1.237	NO	2.0699e6	1.0860e6	200.000	4.2	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	38.38	1.025	NO	1.5155e6	5.1102e5	200.000	4.1	8.93	0.896	0.0622
7	OCDD	41.35	0.902	NO	2.8733e6	1.4988e6	400.000	2.7	7.57	0.933	0.0767
8	2,3,7,8-TCDF	25.12	0.745	NO	3.1175e5	2.5172e5	40.000	2.4	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.82	1.552	NO	3.6390e6	2.0740e6	200.000	1.7	5.86	0.910	0.0523
10	2,3,4,7,8-PeCDF	30.82	1.548	NO	3.9695e6	2.0111e6	200.000	2.1	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.84	1.188	NO	2.2412e6	1.2061e6	200.000	2.1	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.77	1.194	NO	2.6213e6	1.4607e6	200.000	2.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.189	NO	2.4894e6	1.3107e6	200.000	3.0	7.69	0.922	0.0769
14	1,2,3,7,8,9-HxCDF	35.22	1.194	NO	4.9084e6	1.1096e6	200.000	3.7	5.28	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.97	0.991	NO	1.7927e6	9.8074e5	200.000	5.0	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.95	0.885	NO	1.2900e6	5.6628e5	200.000	4.7	6.62	1.01	0.0670
17	OCDF	41.53	0.869	NO	2.8428e6	1.6675e6	400.000	5.0	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2_5 CAP NUM

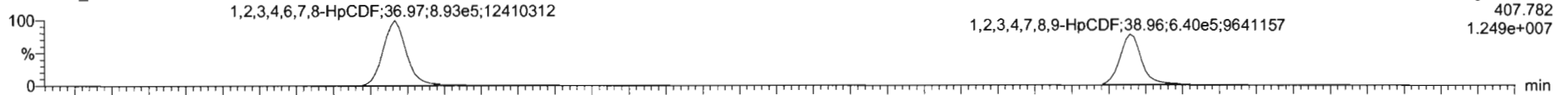
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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

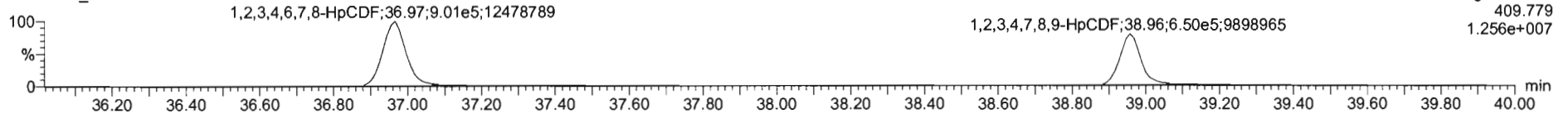
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1,2,3,4,6,7,8-HpCDF

200429R2_5

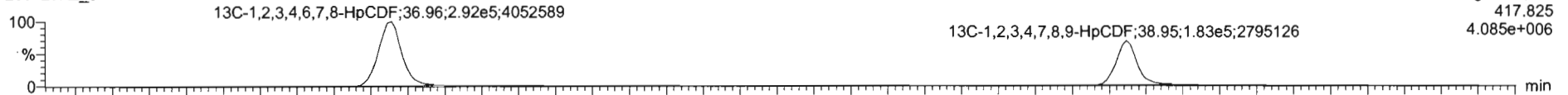


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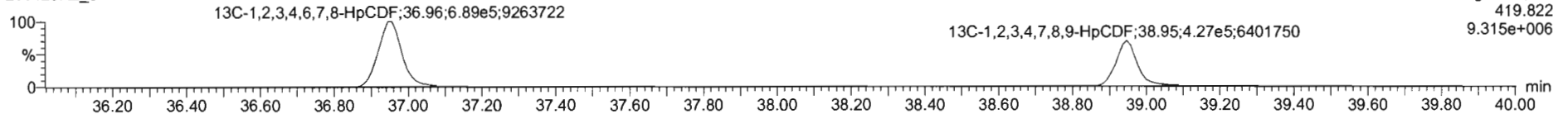


13C-1,2,3,4,6,7,8-HpCDF

200429R2_5

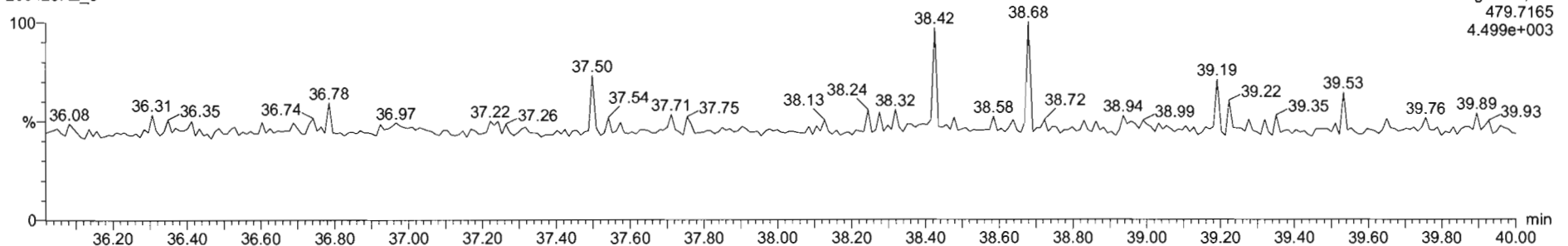


200429R2_5



DPE4

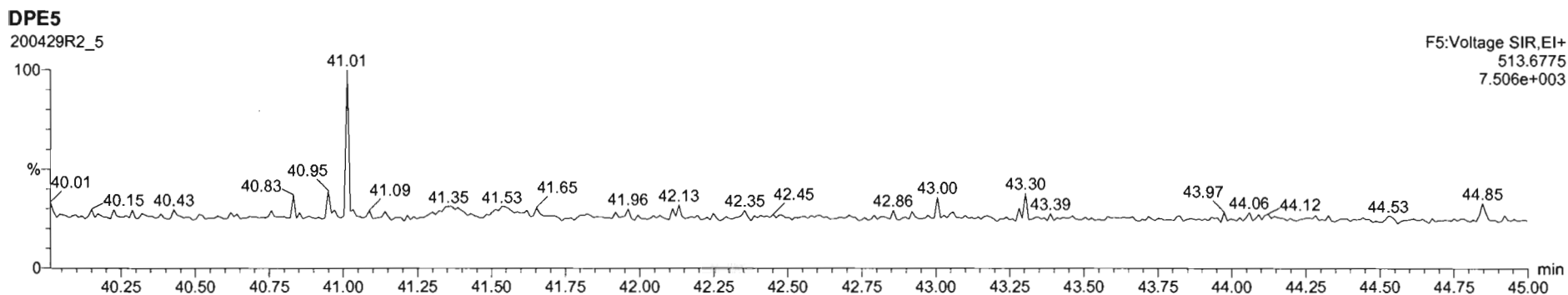
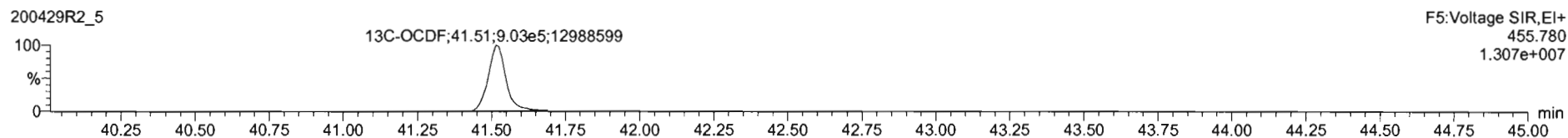
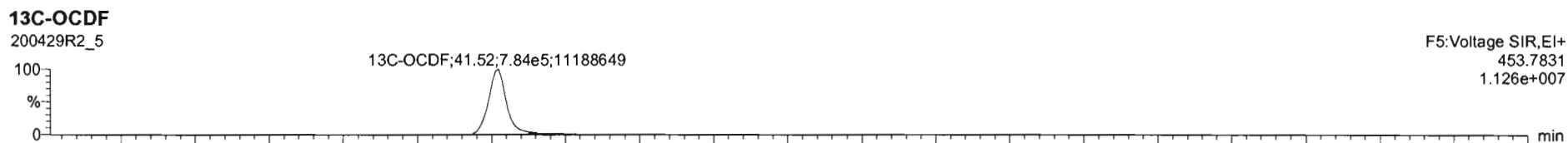
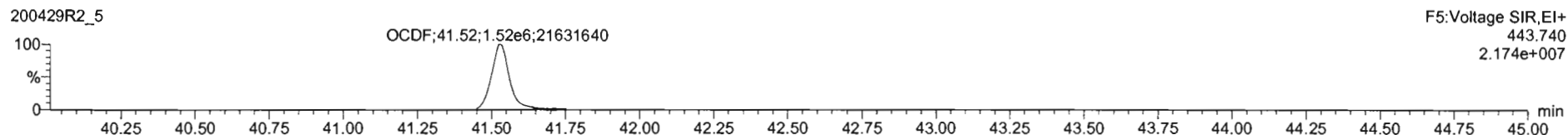
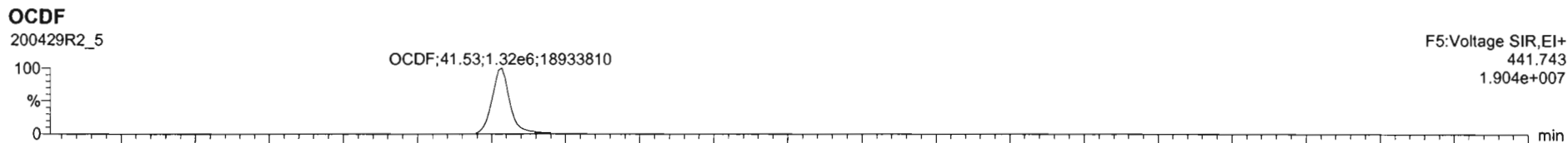
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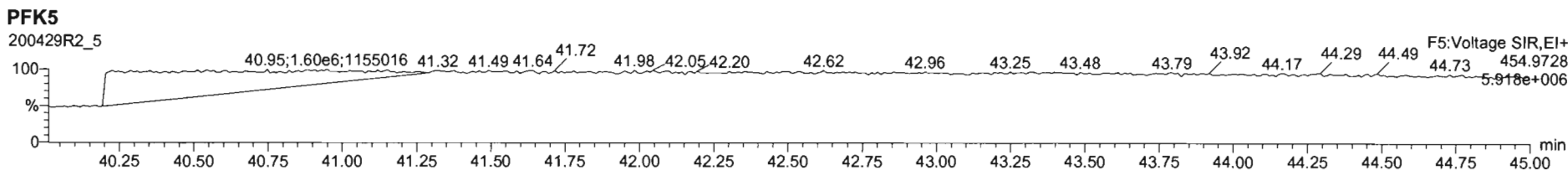
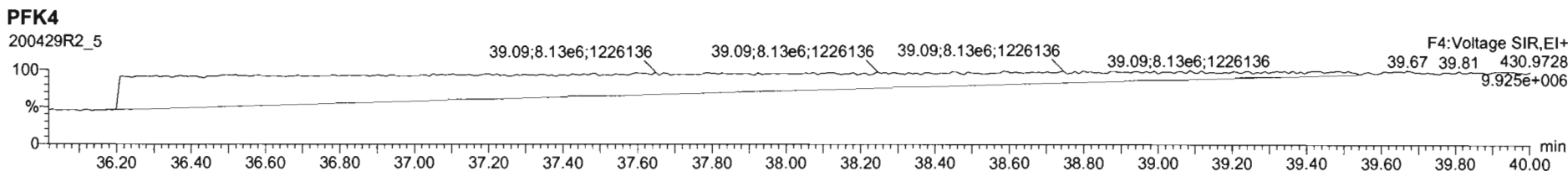
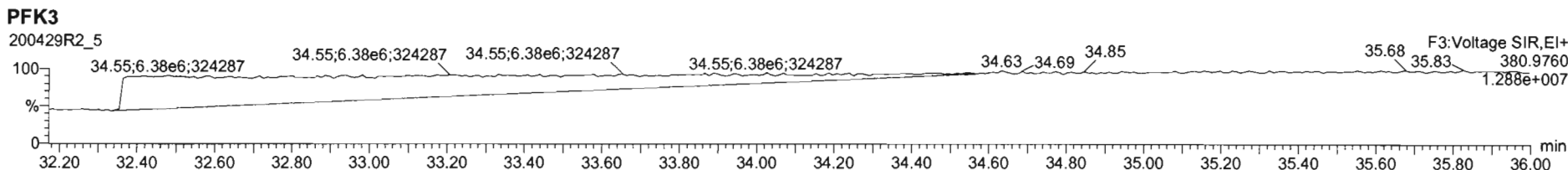
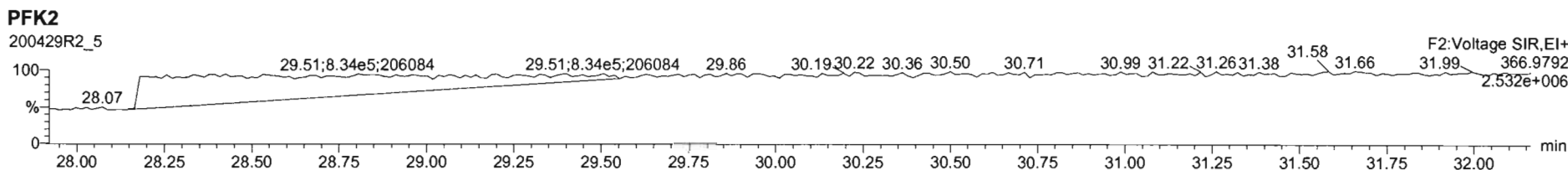
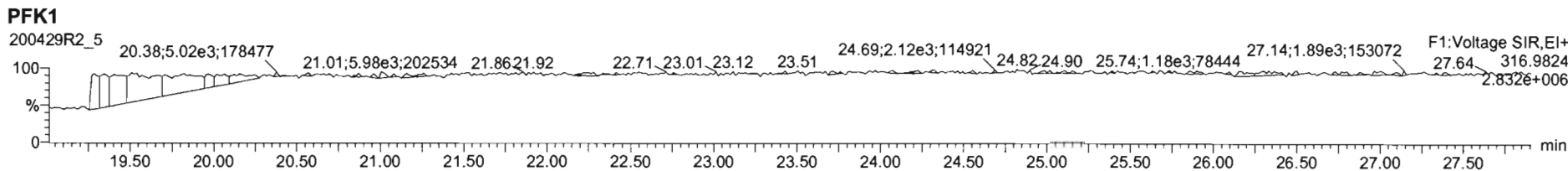


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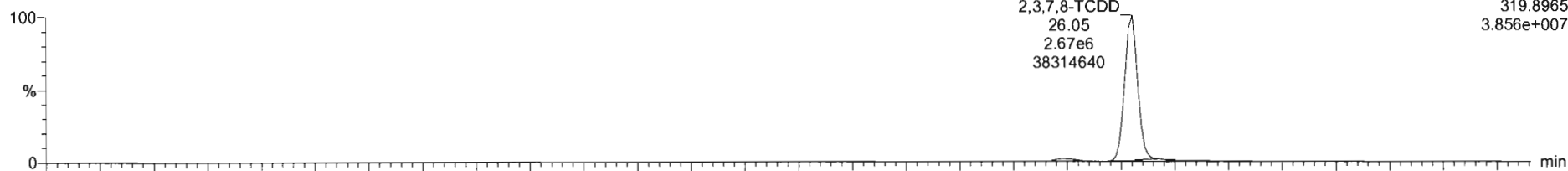
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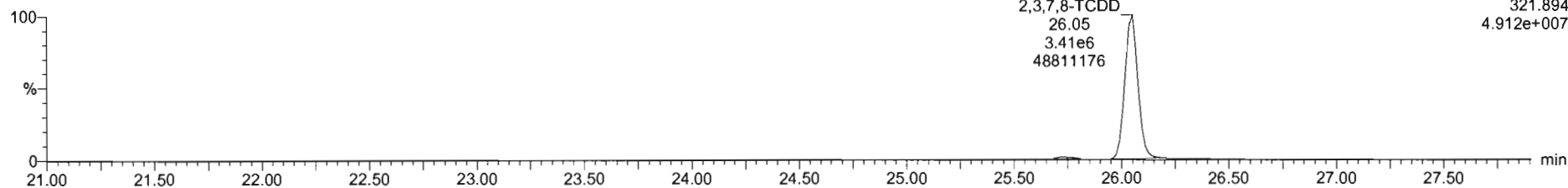
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2,3,7,8-TCDD

200429R2_6

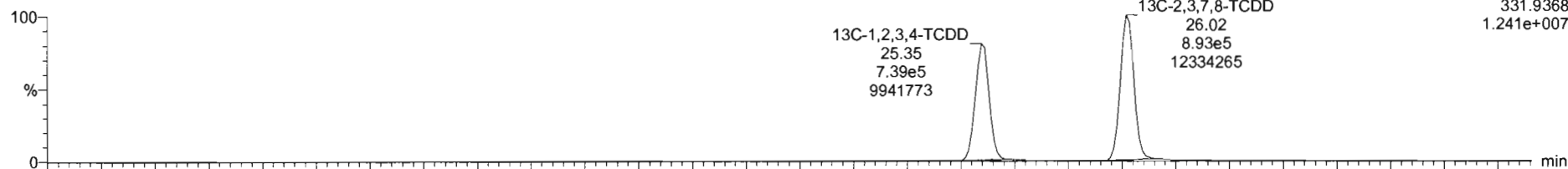


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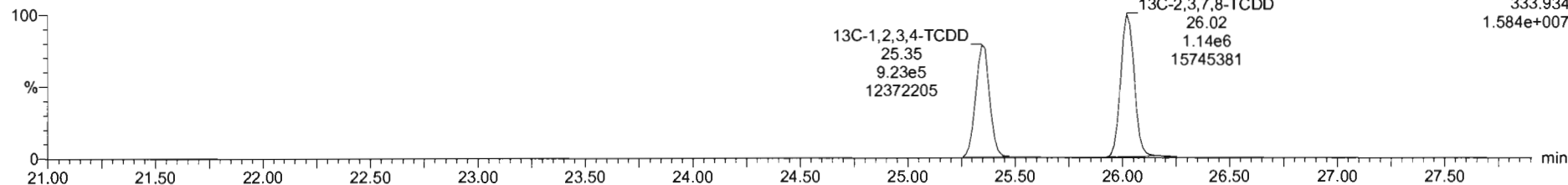


13C-2,3,7,8-TCDD

200429R2_6



200429R2_6



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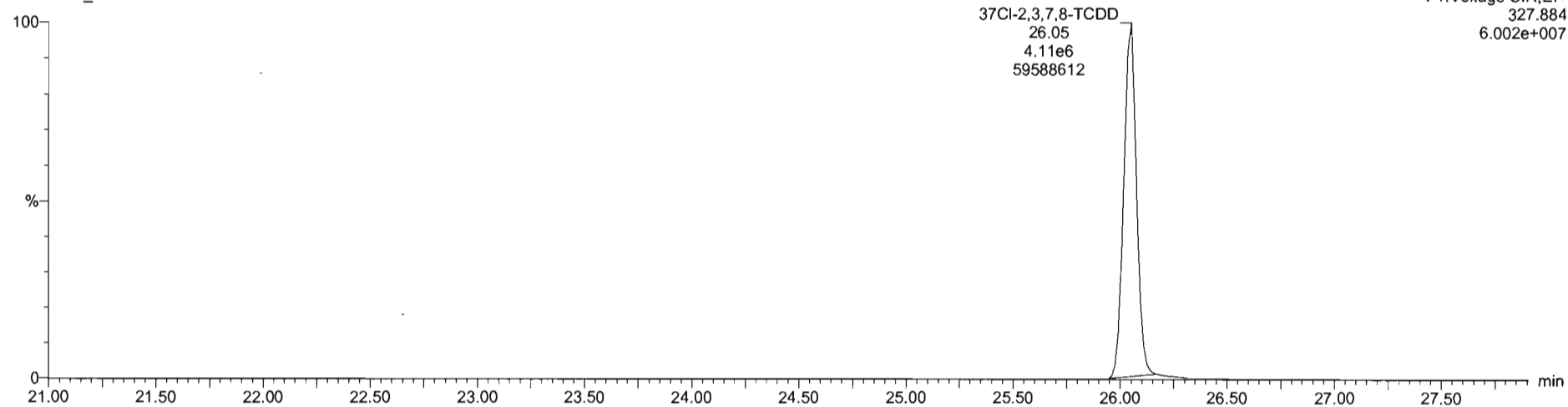
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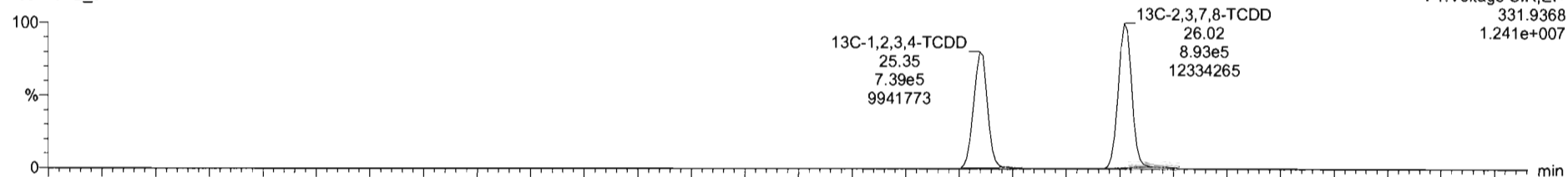
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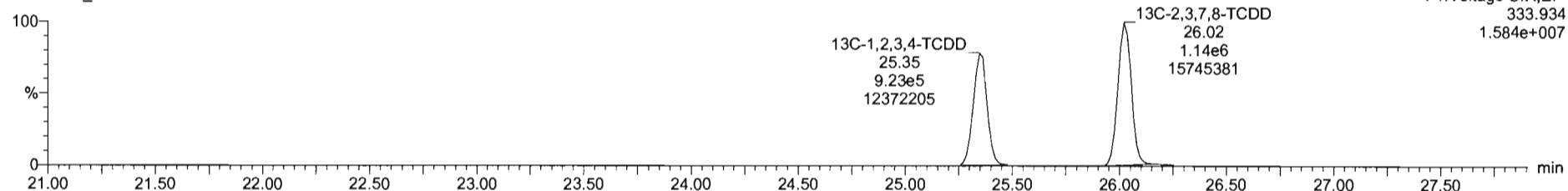


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200429R2_6



200429R2_6



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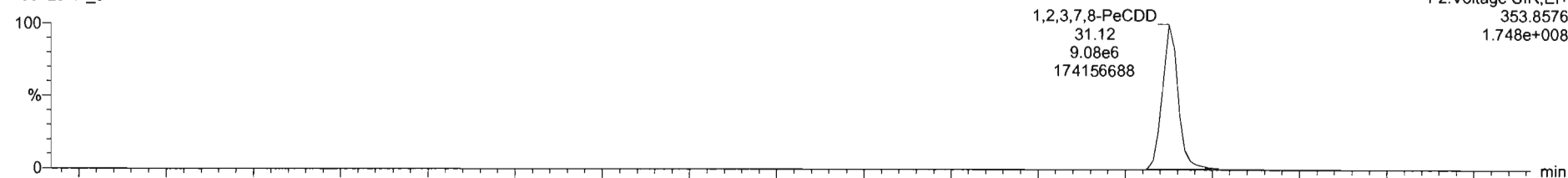
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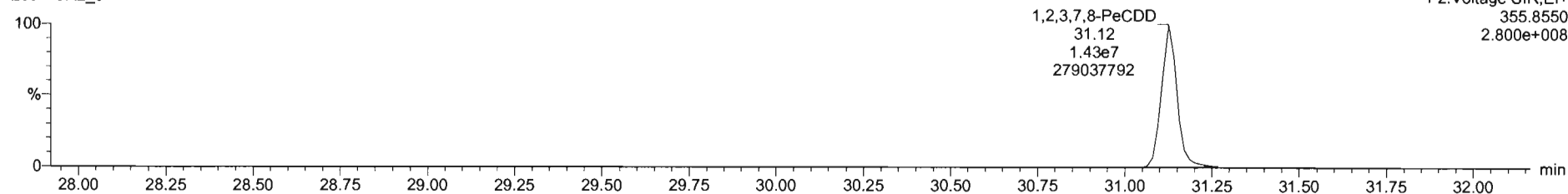
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1,2,3,7,8-PeCDD

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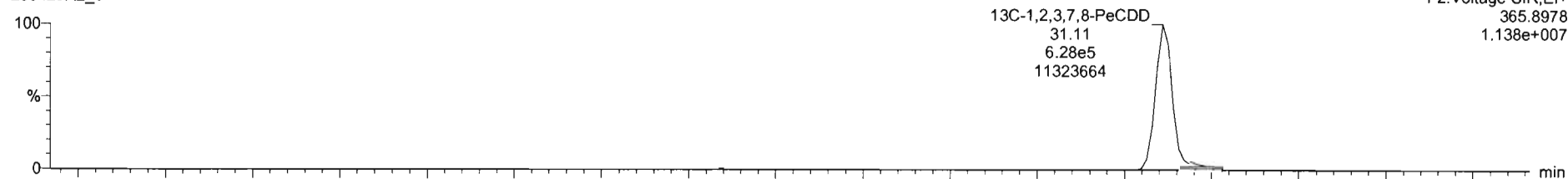


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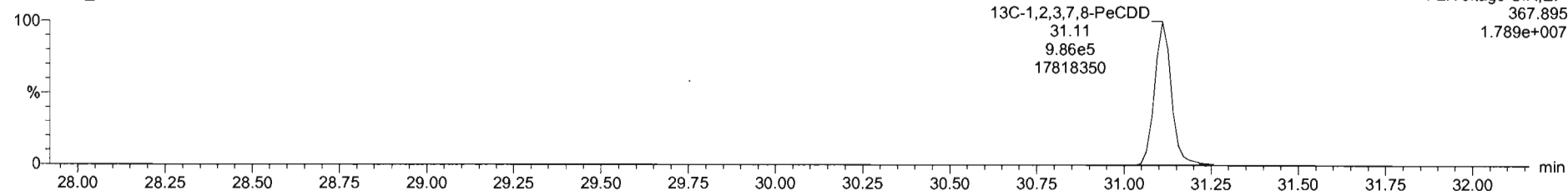


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200429R2_6



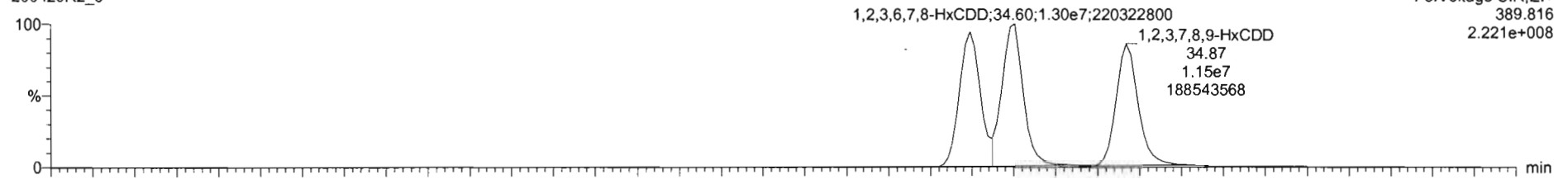
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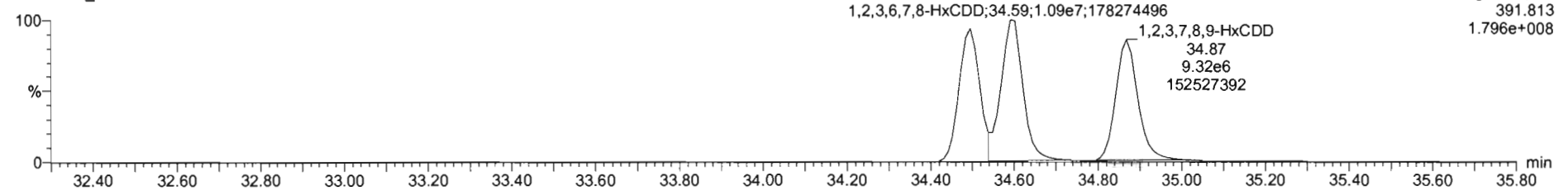
1,2,3,4,7,8-HxCDD

200429R2_6



F3:Voltage SIR,EI+
389.816
2.221e+008

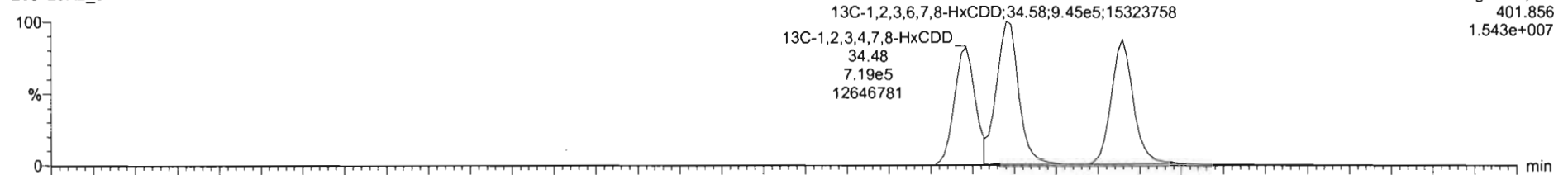
200429R2_6



F3:Voltage SIR,EI+
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1.796e+008

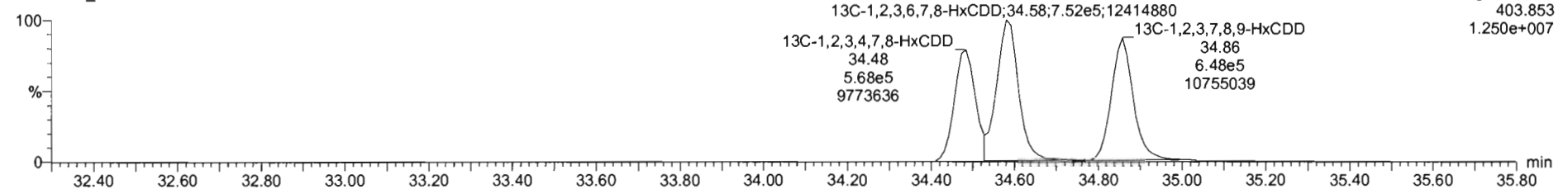
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200429R2_6



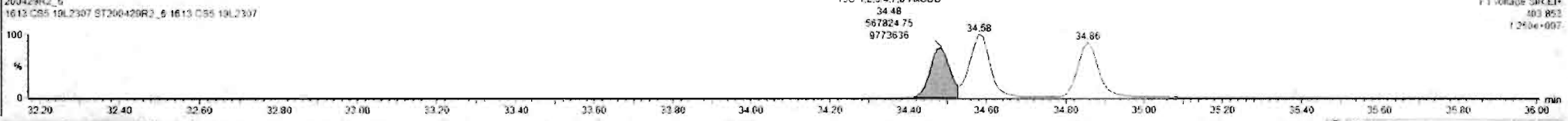
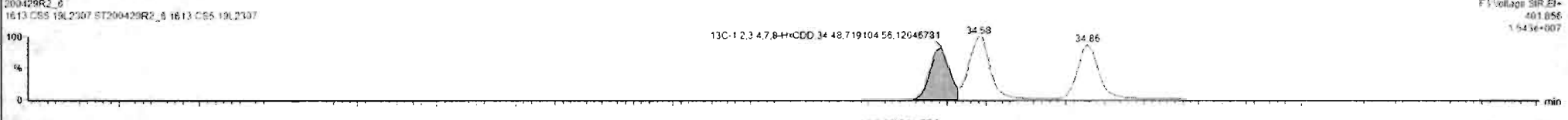
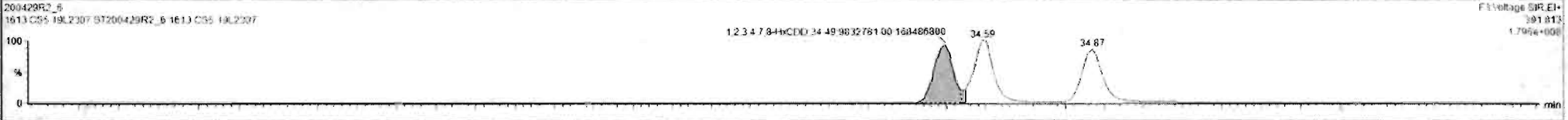
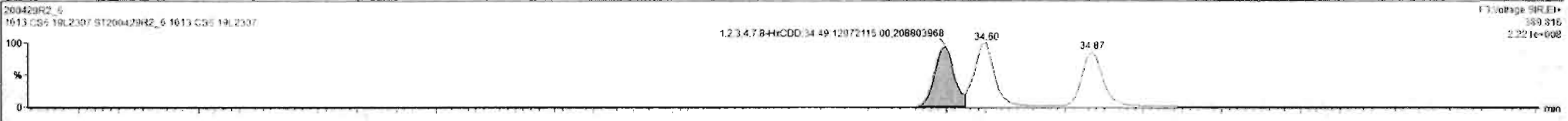
F3:Voltage SIR,EI+
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1.543e+007

200429R2_6



F3:Voltage SIR,EI+
403.853
1.250e+007

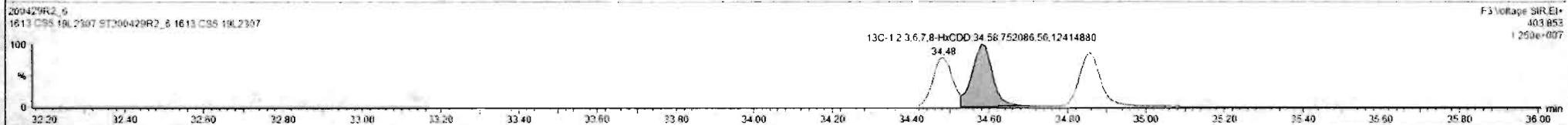
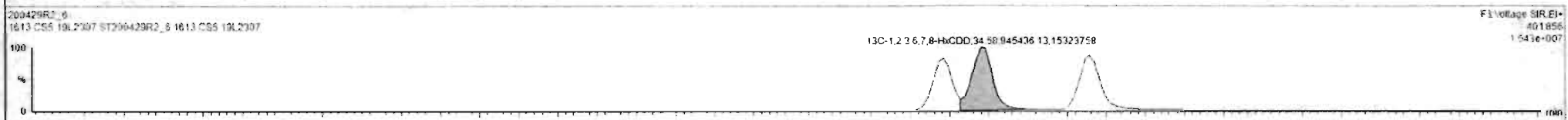
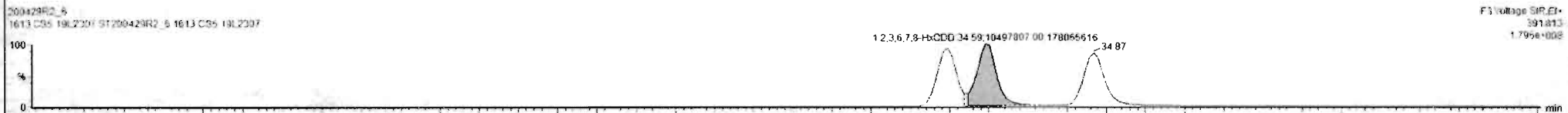
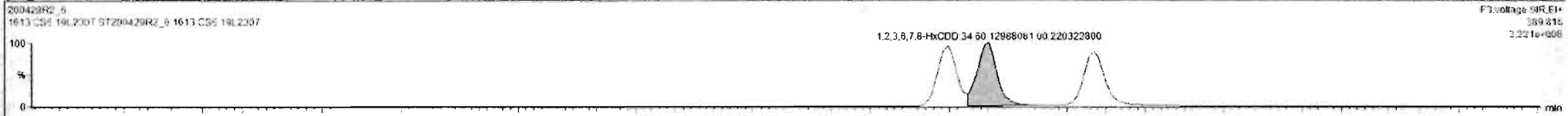
#	Name	RT	RA	yh	Area	IS Area	Std. Conc	%Dev	%RSD	RRF M...	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.784	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.0516
3	1,2,3,4,7,8-HxCDD	34.48	1.228	NO	2.1905e7	1.2269e6	1000.000	6.6	6.62	1.08	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.915	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.213	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0699
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1280e6	1500.000	5.6	8.92	0.956	0.0622
7	OCDD	41.34	0.887	NO	3.3871e7	2.3135e6	2000.000	4.8	7.57	0.633	0.0707
8	2,3,7,8-TCDF	25.05	0.753	NO	7.1946e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.51	1.560	NO	3.5628e7	2.5822e6	1500.000	1.5	5.86	0.910	0.0533
10	1,2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.98	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.83	1.189	NO	2.3482e7	1.7670e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0705
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9813e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.95	0.992	NO	1.8927e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.94	0.991	NO	1.4705e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.867	NO	2.1636e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



Custom Reporting: Select reports to generate

200429R2_8 ST200429R2_1 13 CS5 19L2307 - 1613 CS5 19L2307

#	Name	RT	RA	yht	Area	IS Area	Std Conc	%Dev	%RSD	RRF M.	RRF SD
1	1,2,3,7,8-TCDD	26.95	0.764	NO	6.0624e6	2.0310e6	300.000	5.4	5.35	0.947	0.9507
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.942	0.9519
3	1,2,3,4,7,8-HxCDD	34.49	1.228	NO	2.1905e7	1.2669e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3489e7	1.6075e6	1500.000	0.8	6.53	0.915	0.0592
5	1,2,3,7,8,9-HxCDD	34.67	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0690
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1360e6	1500.000	5.6	6.93	0.896	0.0622
7	OCDD	41.34	0.887	NO	3.3271e7	2.3135e6	3000.000	4.8	7.57	0.933	0.0707
8	1,2,7,8-TCDF	25.05	0.753	NO	7.1948e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5938e7	2.5822e6	1500.000	1.9	5.86	0.910	0.0533
10	1,2,3,4,7,8-HxCDF	30.81	1.542	NO	3.6618e7	3.5077e6	1500.000	0.7	4.96	0.966	0.0481
11	1,2,3,4,7,8-HxCDF	33.63	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0566
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	1,2,3,4,6,7,8-HpCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.69	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.196	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.6927e7	1.2725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	36.94	0.993	NO	1.4205e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.887	NO	2.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



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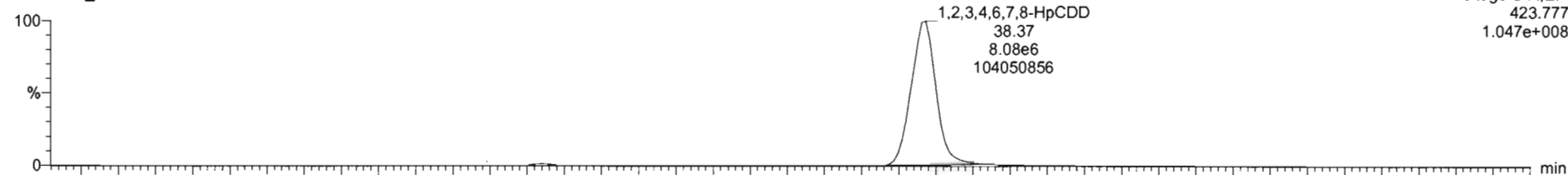
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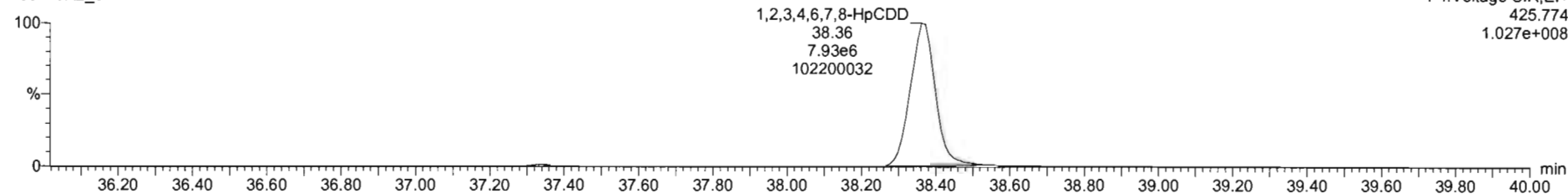
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200429R2_6



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1.047e+008

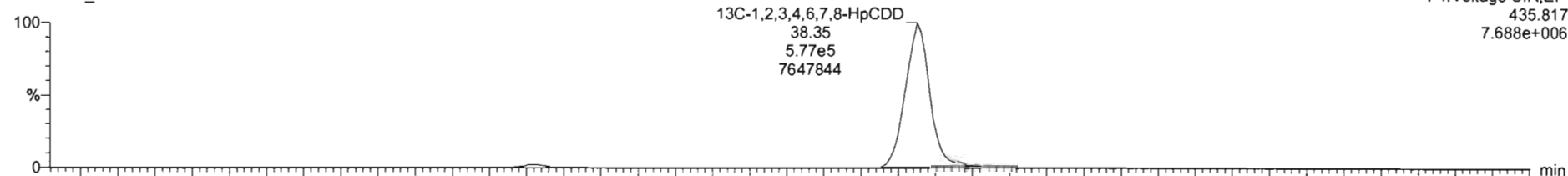
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1.027e+008

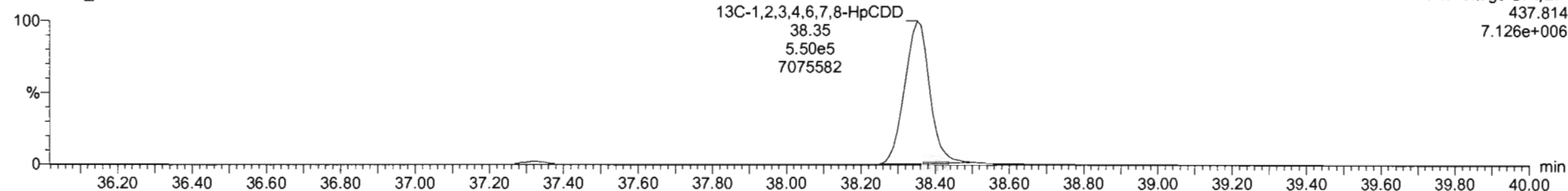
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200429R2_6



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7.688e+006

200429R2_6

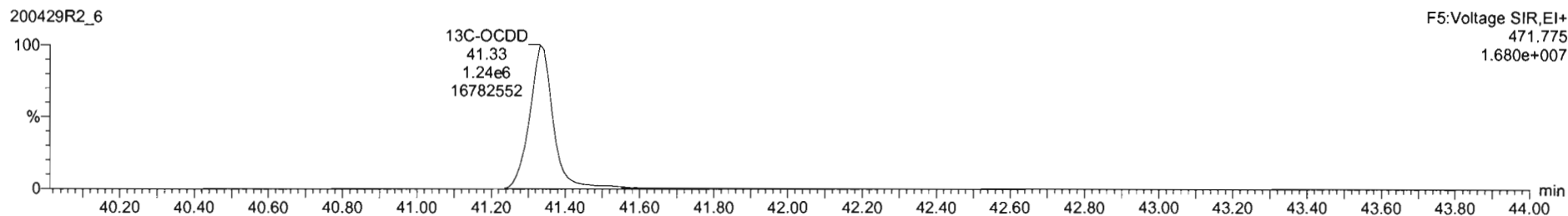
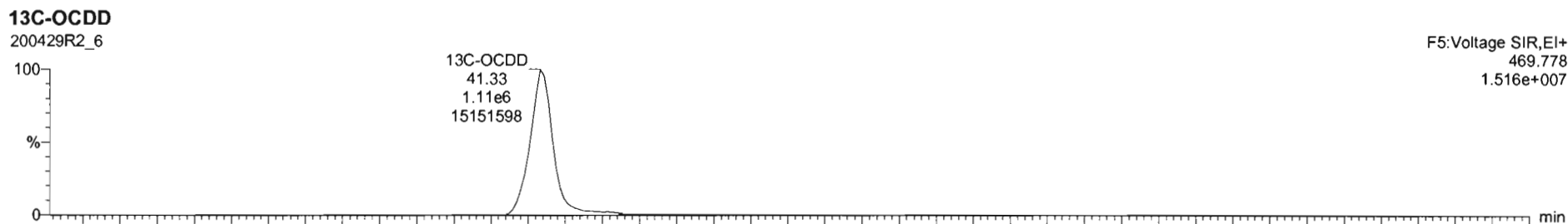
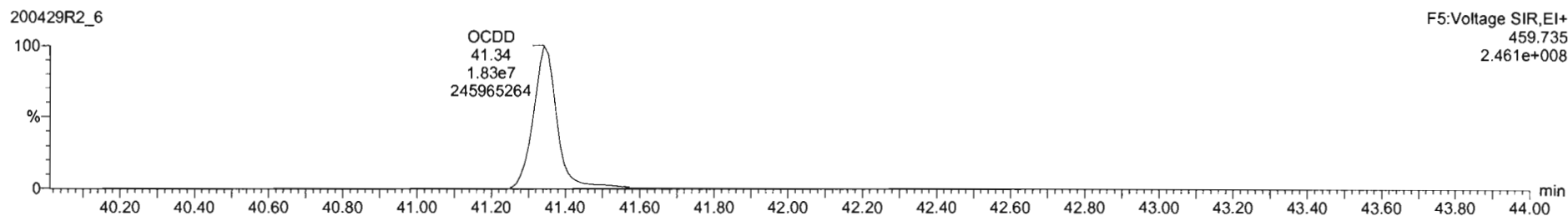
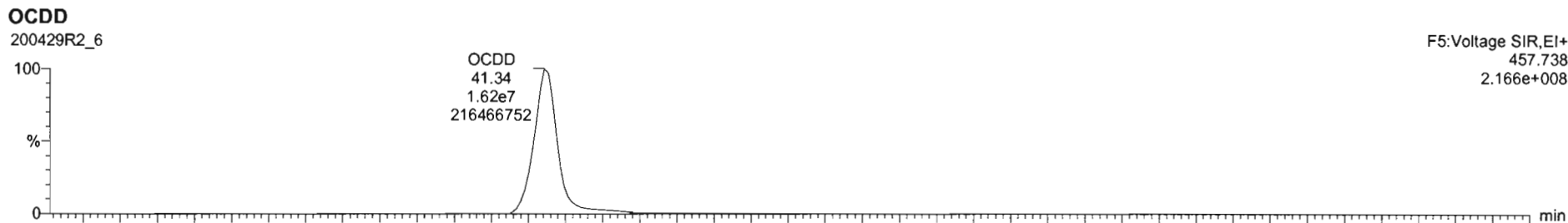


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7.126e+006

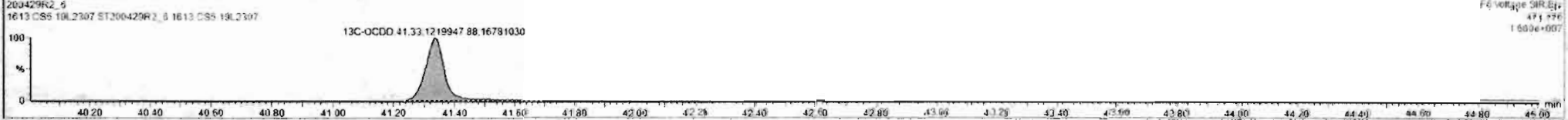
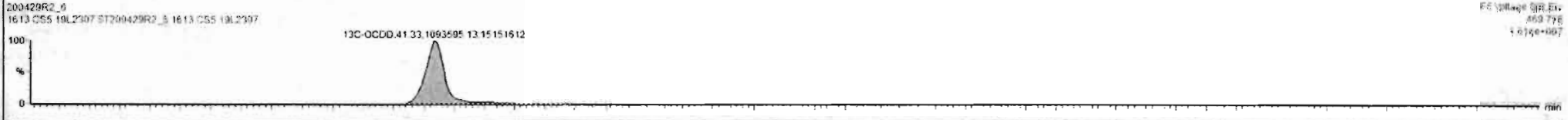
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#	Name	RT	RA	Y/N	Area	IS Area	Std Conc	%Dev	%RSD	RRF U	RRF SD
1	1,2,3,7,8-TCDD	26.05	0.754	NO	6.0624e6	2.0210e6	300.000	5.4	5.15	0.547	0.0567
2	1,2,3,7,8-PeCDD	31.13	0.634	NO	2.3414e7	1.6142e6	1500.000	2.6	5.51	0.642	0.0519
3	1,2,3,4,7,8-HxCDD	34.43	1.220	NO	2.1905e7	1.2869e6	1500.000	6.6	6.62	1.06	0.0704
4	1,2,3,6,7,8-HxCDD	34.60	1.237	NO	2.3486e7	1.6975e6	1500.000	0.9	6.53	0.916	0.0597
5	1,2,3,7,8,9-HxCDD	34.87	1.233	NO	2.0602e7	1.4580e6	1500.000	4.0	7.64	0.915	0.0659
6	1,2,3,4,6,7,8-HpCDD	36.37	1.019	NO	1.6010e7	1.1260e6	1500.000	5.6	6.93	0.656	0.0422
7	OCDD	41.34	0.697	NO	3.3671e7	2.3135e6	3000.000	4.6	7.57	0.933	0.0767
8	0,2,2,7,8-TCDF	25.09	0.753	NO	7.1646e6	2.9106e6	300.000	4.7	5.11	0.767	0.0402
9	1,2,3,7,8-PeCDF	29.81	1.560	NO	3.5528e7	2.5822e6	1500.000	1.9	5.66	0.910	0.0533
10	2,3,4,7,8-PeCDF	30.81	1.542	NO	3.6618e7	2.5077e6	1500.000	0.7	4.85	0.966	0.0461
11	1,2,3,4,7,8-HxCDF	33.83	1.190	NO	2.3482e7	1.7070e6	1500.000	4.4	7.59	0.878	0.0666
12	1,2,3,6,7,8-HxCDF	33.75	1.189	NO	2.5241e7	1.9123e6	1500.000	0.7	7.23	0.874	0.0632
13	2,3,4,6,7,8-HxCDF	34.33	1.190	NO	2.4775e7	1.7418e6	1500.000	2.9	7.60	0.922	0.0709
14	1,2,3,7,8,9-HxCDF	35.21	1.195	NO	1.9613e7	1.4696e6	1500.000	4.0	5.96	0.864	0.0517
15	1,2,3,4,6,7,8-HpCDF	36.96	0.992	NO	1.8627e7	1.3725e6	1500.000	5.5	7.54	0.871	0.0657
16	1,2,3,4,7,8,9-HpCDF	38.54	0.993	NO	1.4305e7	8.6492e5	1500.000	6.5	6.62	1.01	0.0670
17	OCDF	41.52	0.667	NO	3.3036e7	2.6295e6	3000.000	4.4	7.16	0.802	0.0575



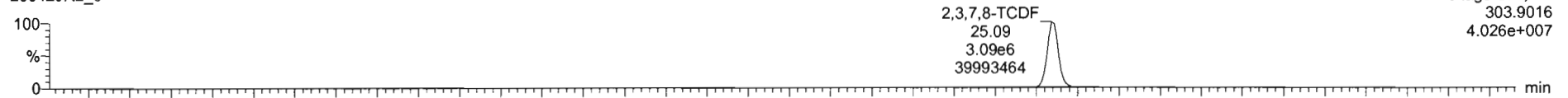
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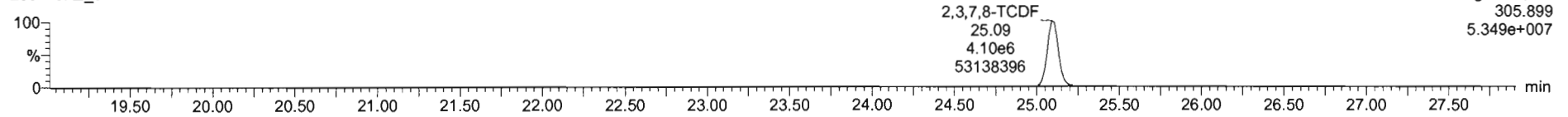
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2,3,7,8-TCDF

200429R2_6

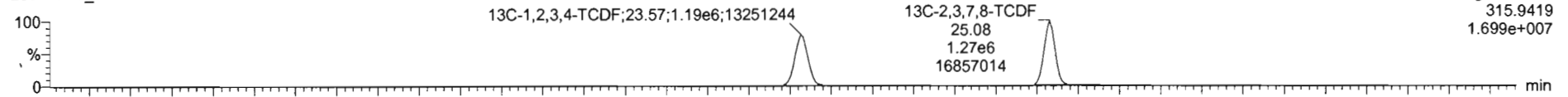


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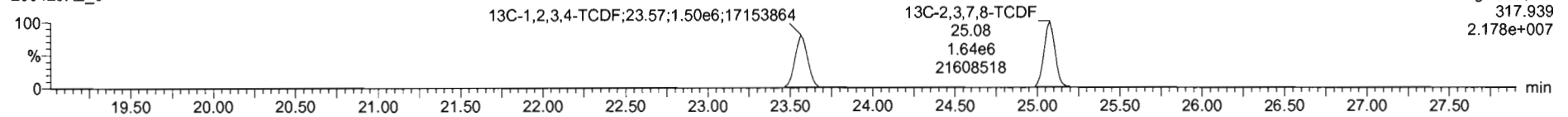


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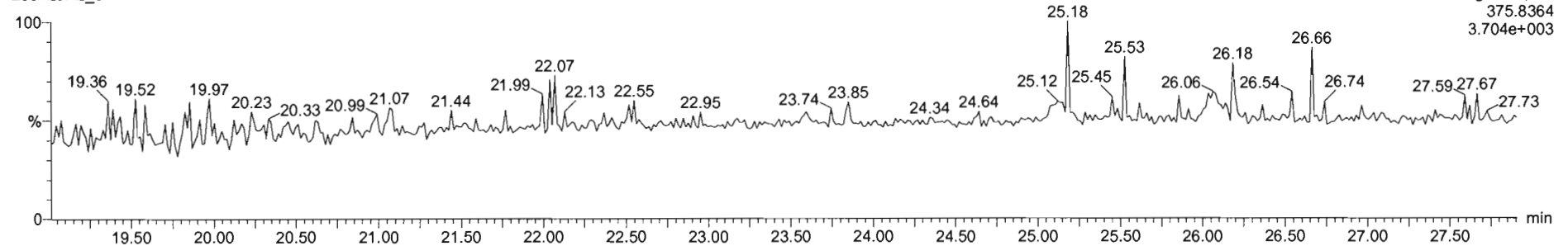


200429R2_6



DPE1

200429R2_6



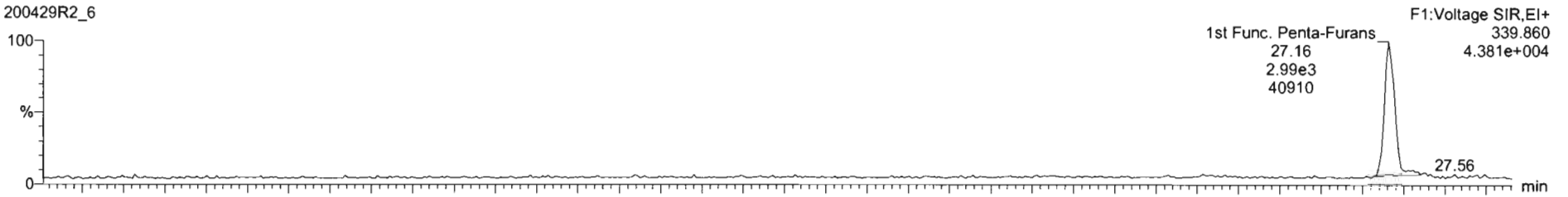
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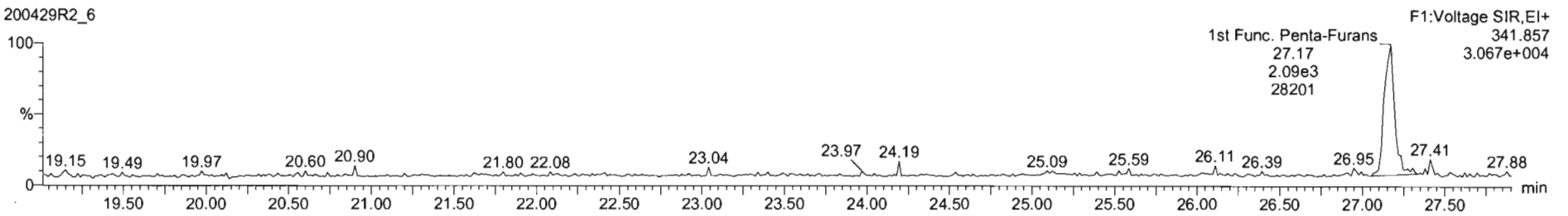
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1st Func. Penta-Furans

200429R2_6

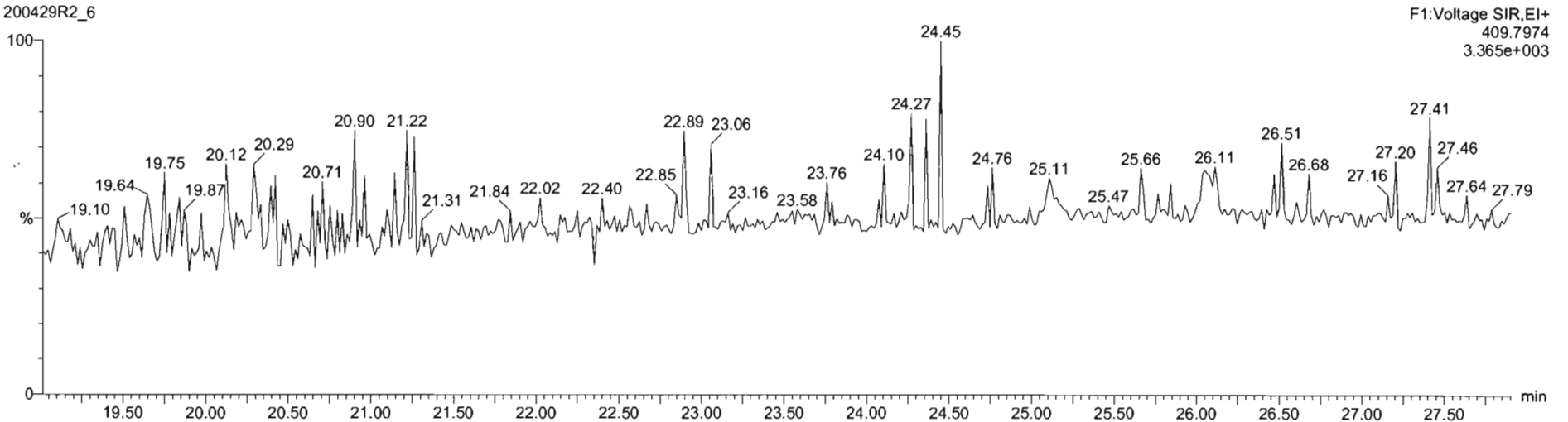


200429R2_6



DPE6

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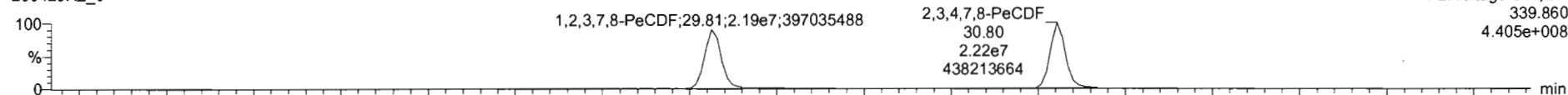
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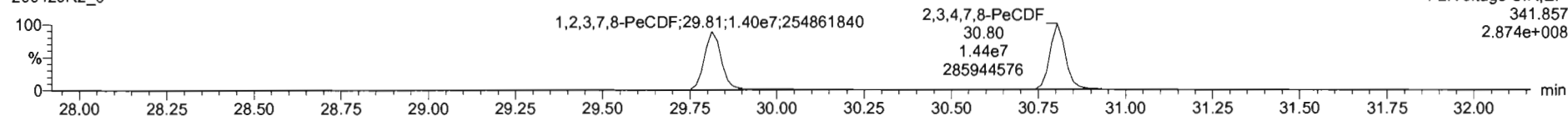
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1,2,3,7,8-PeCDF

200429R2_6

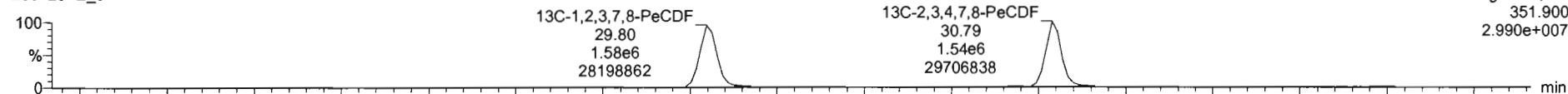


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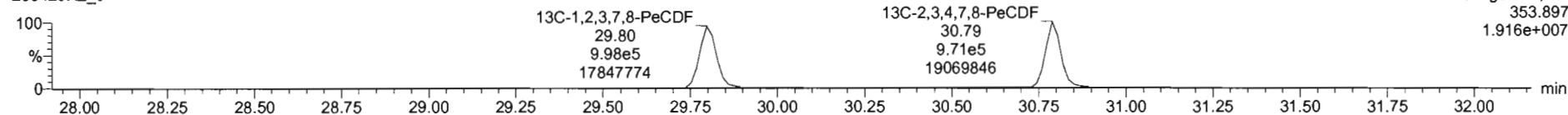


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200429R2_6

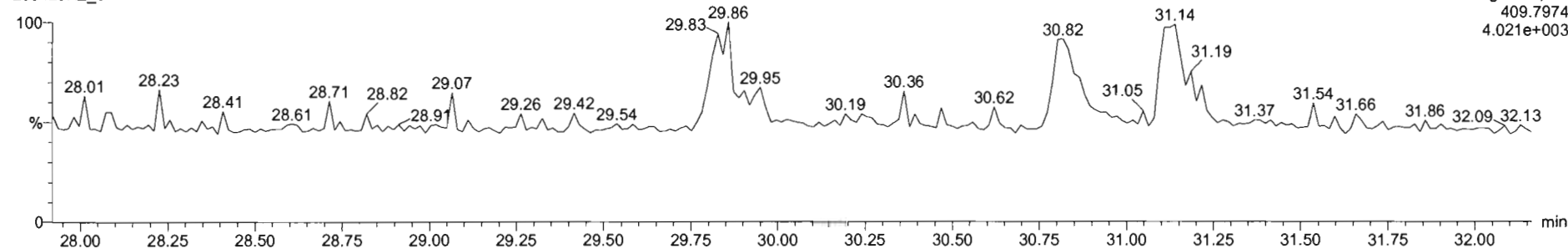


200429R2_6



DPE2

200429R2_6



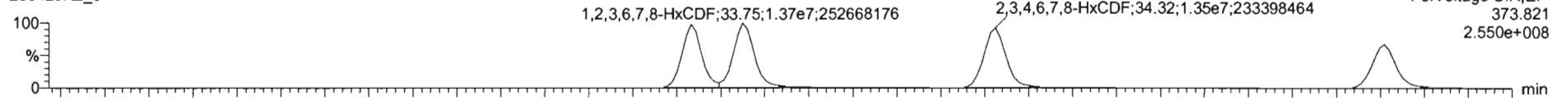
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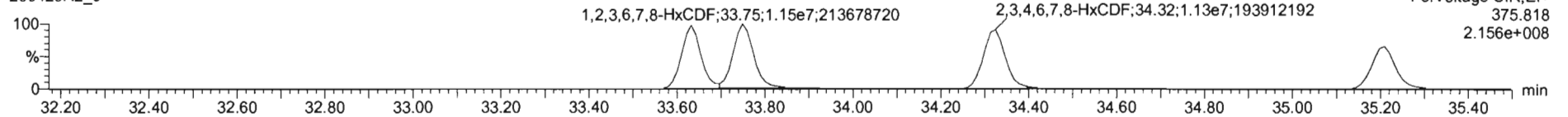
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1,2,3,4,7,8-HxCDF

200429R2_6

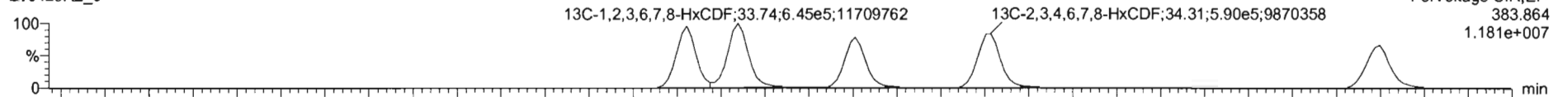


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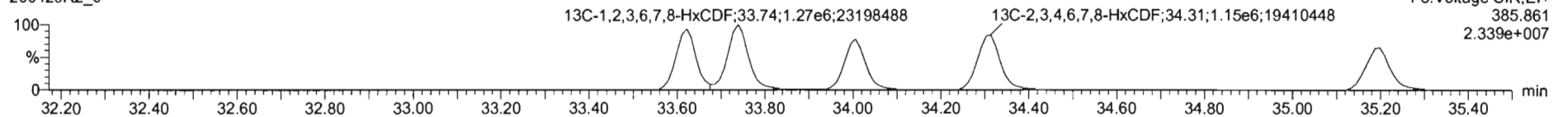


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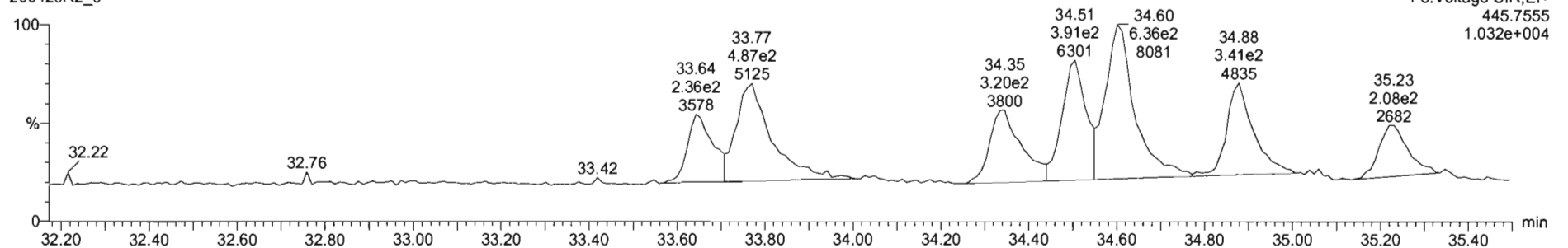


200429R2_6



DPE3

200429R2_6



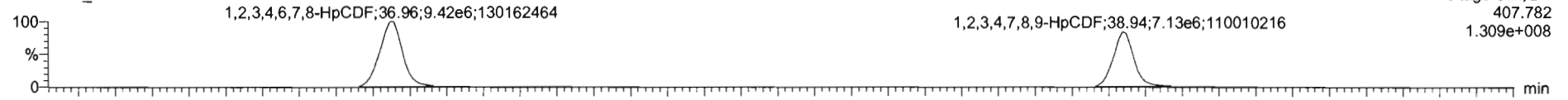
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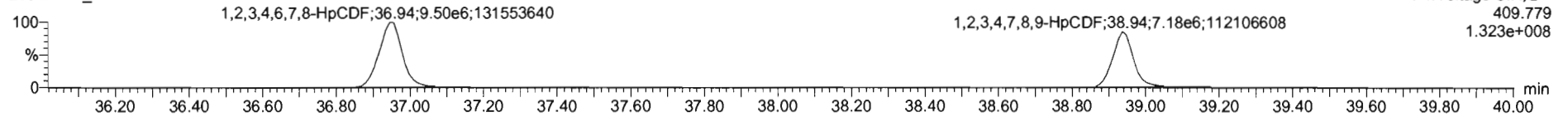
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200429R2_6

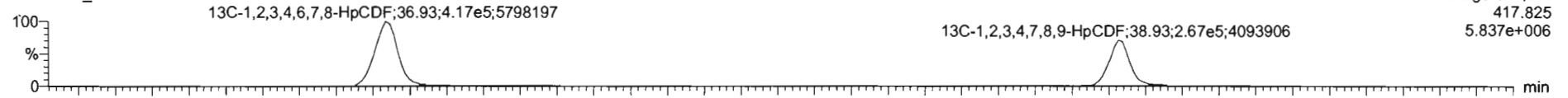


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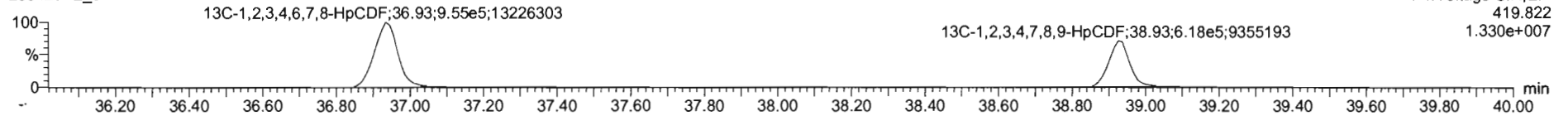


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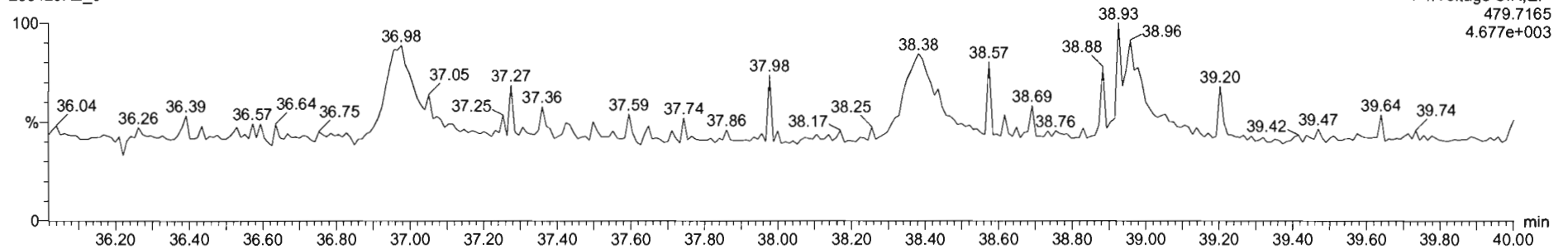


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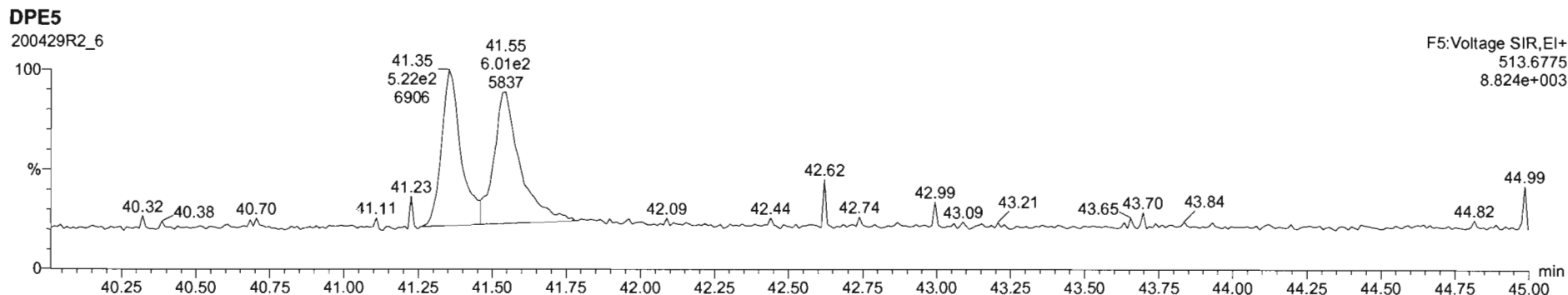
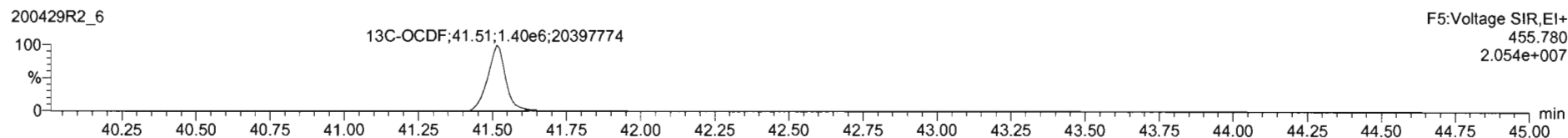
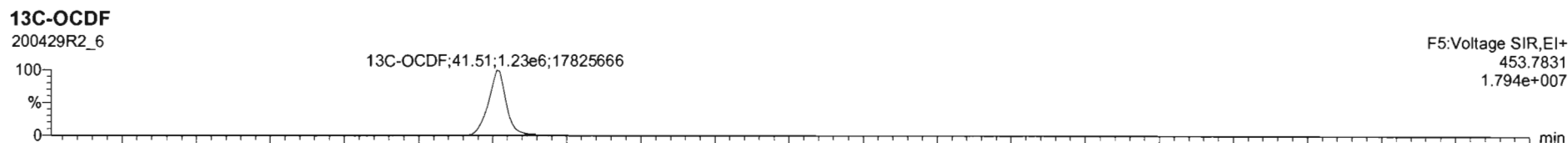
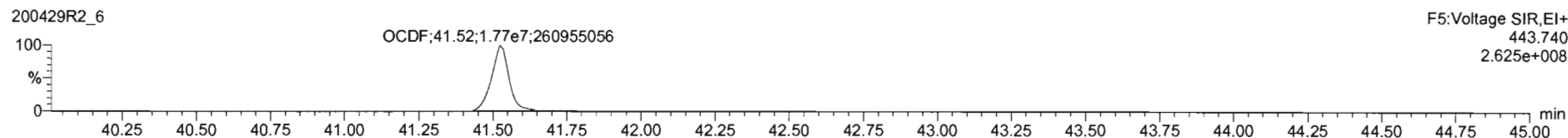
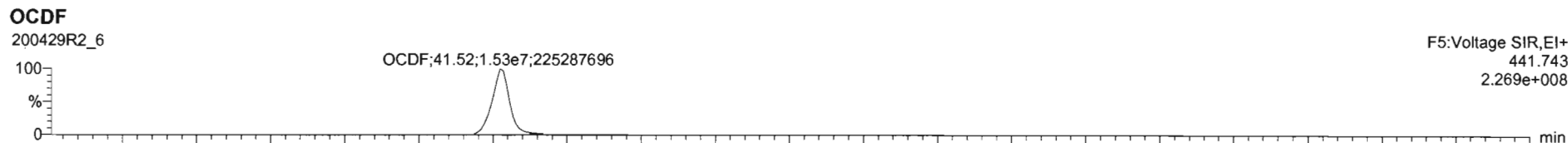
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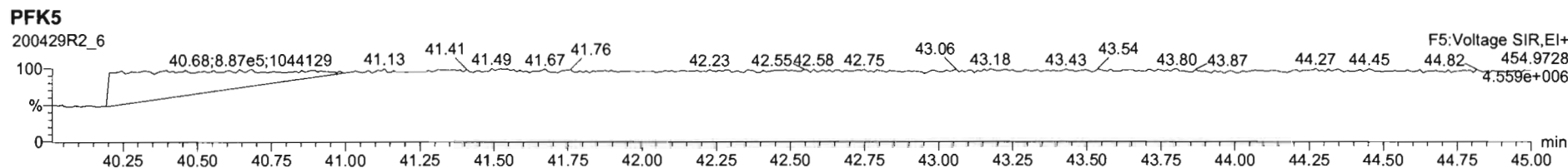
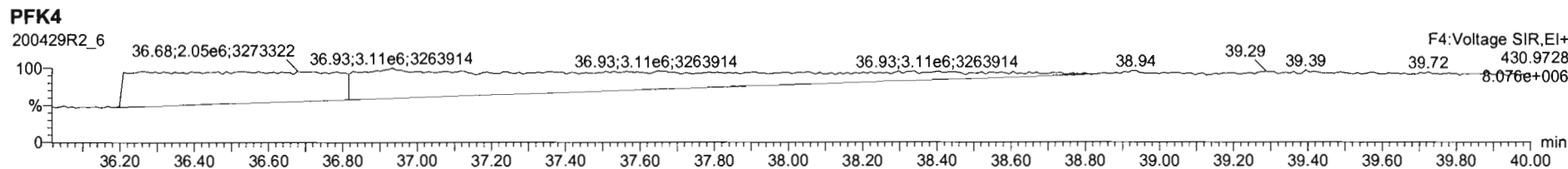
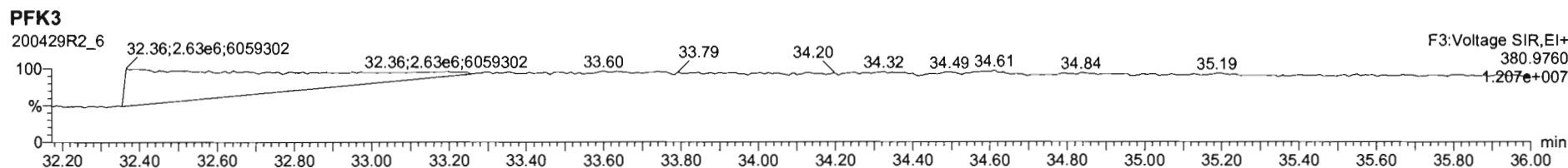
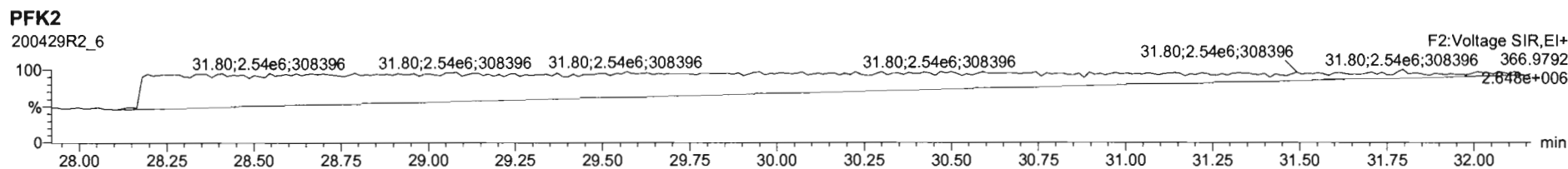
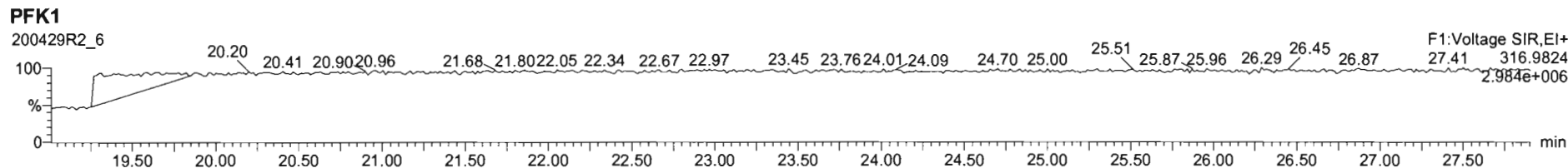


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Printed: Thursday, April 30, 2020 7:55:15 AM Pacific Daylight Time

Name: 200429R2_6, Date: 29-Apr-2020, Time: 17:23:21, ID: ST200429R2_6 1613 CS5 19L2307, Description: 1613 CS5 19L2307



Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

Last Altered: Thursday, April 30, 2020 8:35:25 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

GRB 04/30/2020

CT 04/30/2020

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Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

#	Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
1	1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.947	1.000	26.081	26.07	1.001	1.001	11.205	112	0.0427	11.2
2	2 1,2,3,7,8-PeCDD	5.70e5	0.63	NO	0.942	1.000	31.147	31.14	1.001	1.000	56.141	112	0.0577	56.1
3	3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.06	1.000	34.505	34.51	1.000	1.000	58.046	116	0.102	58.0
4	4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.915	1.000	34.591	34.61	1.000	1.001	57.430	115	0.105	57.4
5	5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.915	1.000	34.878	34.88	1.000	1.000	58.193	116	0.120	58.2
6	6 1,2,3,4,6,7,8-HpCDD	3.49e5	1.04	NO	0.898	1.000	38.373	38.38	1.000	1.001	56.727	113	0.145	56.7
7	7 OCDD	6.53e5	0.88	NO	0.933	1.000	41.343	41.35	1.000	1.000	116.94	117	0.107	117
8	8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.787	1.000	25.117	25.12	1.001	1.001	11.247	112	0.0306	11.2
9	9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.910	1.000	29.834	29.83	1.001	1.001	55.836	112	0.0810	55.8
10	10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.966	1.000	30.836	30.82	1.001	1.000	60.816	122	0.0765	60.8
11	11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.878	1.000	33.632	33.64	1.000	1.000	55.918	112	0.109	55.9
12	12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.874	1.000	33.760	33.76	1.000	1.000	56.451	113	0.107	56.5
13	13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.922	1.000	34.359	34.33	1.001	1.000	56.186	112	0.118	56.2
14	14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.864	1.000	35.209	35.22	1.000	1.000	55.290	111	0.162	55.3
15	15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.871	1.000	36.982	36.97	1.001	1.001	54.863	110	0.153	54.9
16	16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.01	1.000	38.947	38.95	1.000	1.000	57.162	114	0.204	57.2
17	17 OCDF	6.13e5	0.86	NO	0.802	1.000	41.525	41.53	1.000	1.000	115.17	115	0.126	115
18	18 13C-2,3,7,8-TCDD	1.53e6	0.79	NO	1.16	1.000	26.046	26.05	1.026	1.027	91.114	91.1	0.0954	
19	19 13C-1,2,3,7,8-PeCDD	1.08e6	0.64	NO	0.847	1.000	31.141	31.13	1.227	1.227	87.564	87.6	0.0958	
20	20 13C-1,2,3,4,7,8-HxCDD	7.95e5	1.29	NO	0.750	1.000	34.496	34.49	1.014	1.014	88.379	88.4	0.183	
21	21 13C-1,2,3,6,7,8-HxCDD	1.03e6	1.29	NO	0.963	1.000	34.608	34.59	1.017	1.017	89.585	89.6	0.142	
22	22 13C-1,2,3,7,8,9-HxCDD	8.98e5	1.26	NO	0.838	1.000	34.877	34.87	1.025	1.025	89.402	89.4	0.164	
23	23 13C-1,2,3,4,6,7,8-HpCDD	6.86e5	1.10	NO	0.641	1.000	38.367	38.36	1.128	1.128	89.184	89.2	0.183	
24	24 13C-OCDD	1.20e6	0.86	NO	0.586	1.000	41.360	41.34	1.216	1.215	170.31	85.2	0.144	
25	25 13C-2,3,7,8-TCDF	2.25e6	0.78	NO	1.03	1.000	25.104	25.09	0.989	0.989	92.189	92.2	0.134	
26	26 13C-1,2,3,7,8-PeCDF	1.77e6	1.60	NO	0.845	1.000	29.829	29.81	1.176	1.175	88.893	88.9	0.195	
27	27 13C-2,3,4,7,8-PeCDF	1.71e6	1.60	NO	0.814	1.000	30.822	30.81	1.215	1.214	88.919	88.9	0.203	
28	28 13C-1,2,3,4,7,8-HxCDF	1.12e6	0.51	NO	1.00	1.000	33.635	33.63	0.989	0.989	93.115	93.1	0.212	
29	29 13C-1,2,3,6,7,8-HxCDF	1.26e6	0.51	NO	1.14	1.000	33.757	33.75	0.992	0.992	92.434	92.4	0.187	
30	30 13C-2,3,4,6,7,8-HxCDF	1.12e6	0.51	NO	1.02	1.000	34.326	34.33	1.009	1.009	91.031	91.0	0.208	
31	31 13C-1,2,3,7,8,9-HxCDF	9.97e5	0.51	NO	0.845	1.000	35.217	35.21	1.035	1.035	98.412	98.4	0.252	

Dataset: U:\VG12.PRO\Results\200429R2\200429R2-8.qld

Last Altered: Thursday, April 30, 2020 8:35:25 AM Pacific Daylight Time

Printed: Thursday, April 30, 2020 8:36:35 AM Pacific Daylight Time

5. ID: SSS Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

	# Name	Resp	RA	n/y	RRF	wt/vol	Pred.RT	RT	Pred.RRT	RRT	Conc.	%Rec	DL	EMPC
32	32 13C-1,2,3,4,6,7,8-HpCDF	8.59e5	0.43	NO	0.771	1.000	36.948	36.94	1.086	1.086	92.960	93.0	0.284	
33	33 13C-1,2,3,4,7,8,9-HpCDF	5.17e5	0.43	NO	0.482	1.000	38.959	38.95	1.145	1.145	89.503	89.5	0.455	
34	34 13C-OCDF	1.33e6	0.88	NO	0.669	1.000	41.530	41.53	1.221	1.221	165.58	82.8	0.146	
35	35 37Cl-2,3,7,8-TCDD	1.58e5			1.10	1.000	26.076	26.07	1.028	1.027	9.8763	98.8	0.0151	
36	36 13C-1,2,3,4-TCDD	1.45e6	0.81	NO	1.00	1.000	25.350	25.38	1.000	1.000	100.00	100	0.111	
37	37 13C-1,2,3,4-TCDF	2.36e6	0.79	NO	1.00	1.000	23.560	23.59	1.000	1.000	100.00	100	0.139	
38	38 13C-1,2,3,4,6,9-HxCDF	1.20e6	0.51	NO	1.00	1.000	34.000	34.02	1.000	1.000	100.00	100	0.213	

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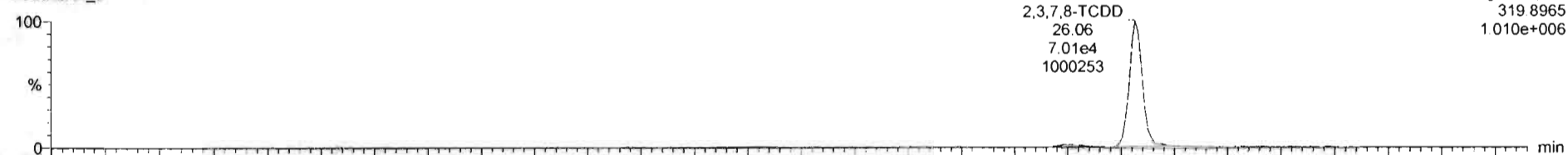
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Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

Method: U:\VG12.PRO\MethDB\1613rrt-04-29-20.mdb 29 Apr 2020 14:28:02
Calibration: U:\VG12.PRO\CurveDB\db5_1613vg12-4-29-20.cdb 30 Apr 2020 07:35:23

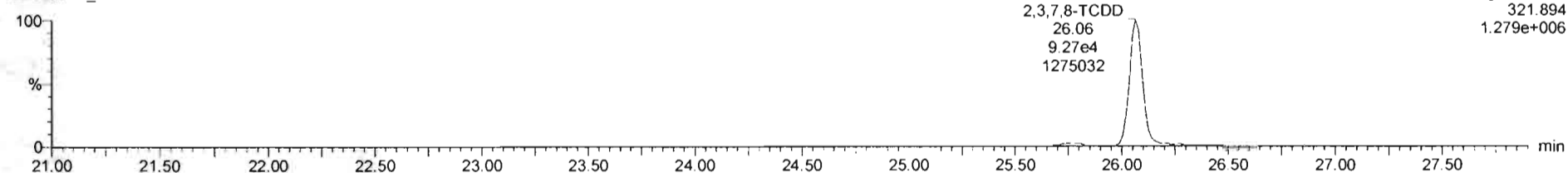
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2,3,7,8-TCDD

200429R2_8

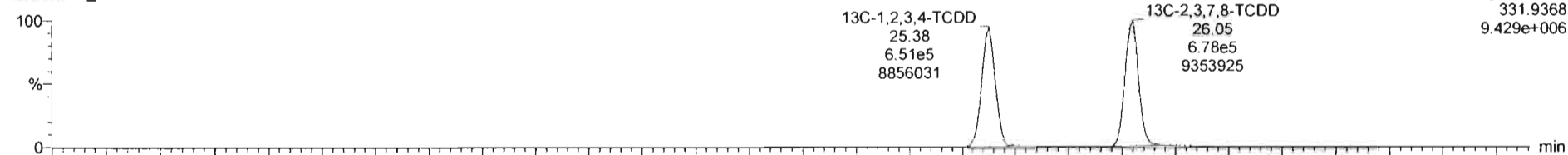


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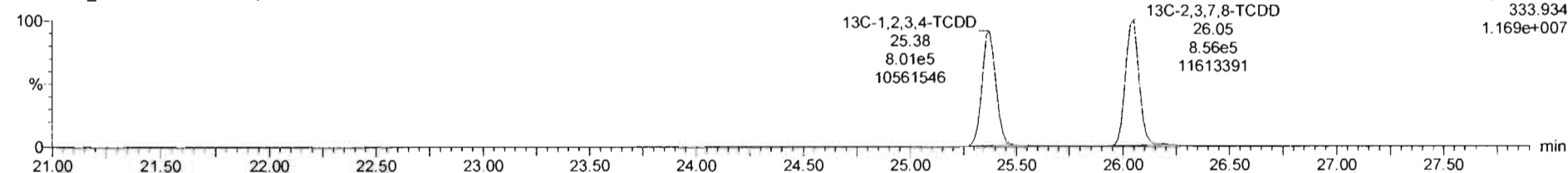


13C-2,3,7,8-TCDD

200429R2_8



200429R2_8



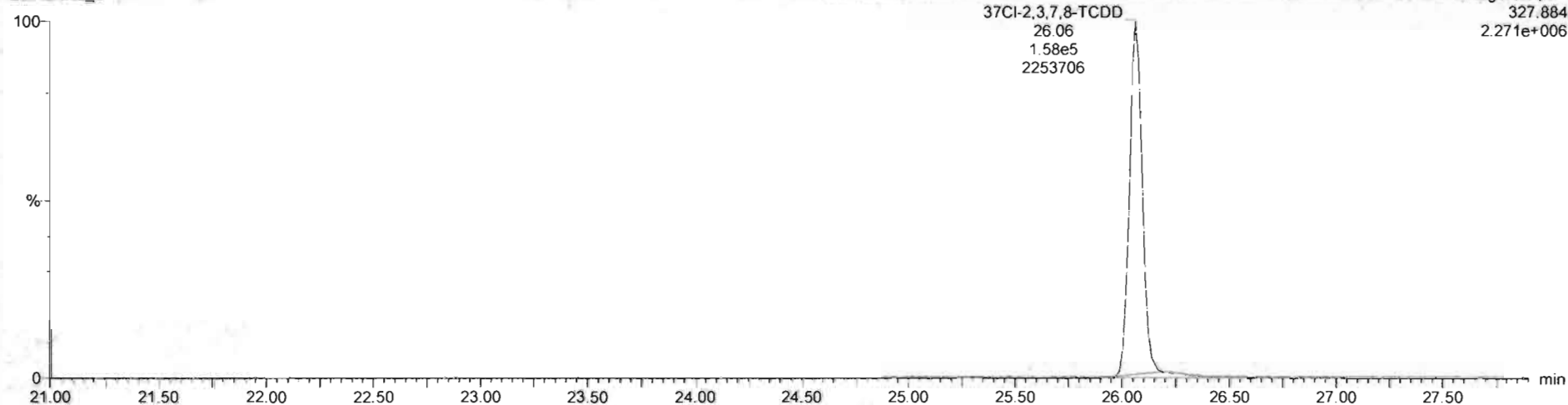
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Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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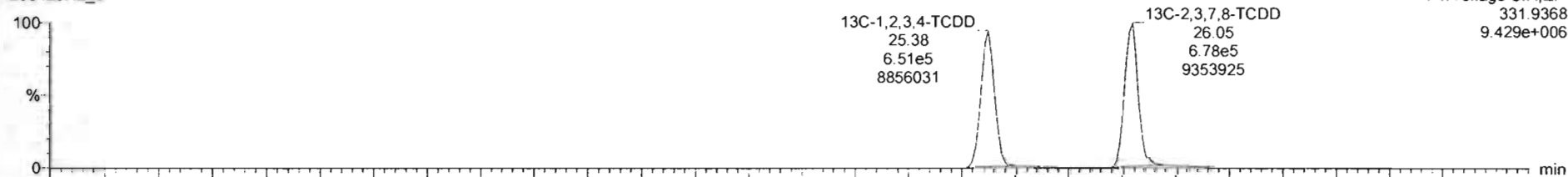
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F1:Voltage SIR,EI+
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2.271e+006

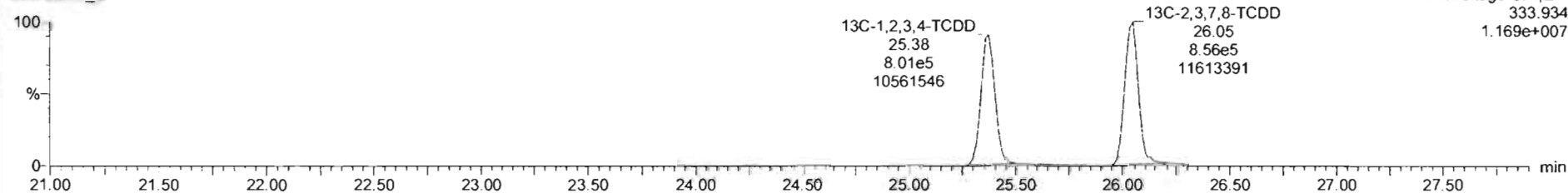
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200429R2_8



F1:Voltage SIR,EI+
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9.429e+006

200429R2_8



F1:Voltage SIR,EI+
333.934
1.169e+007

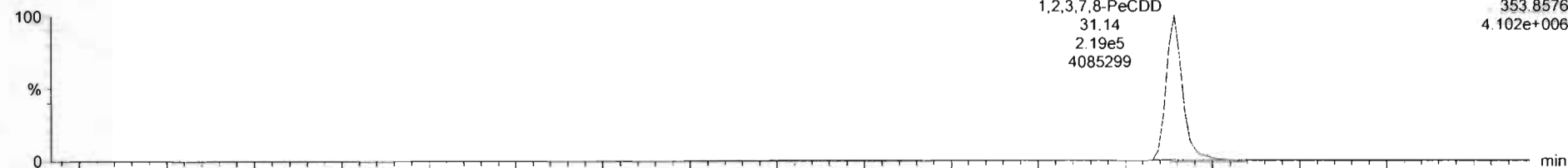
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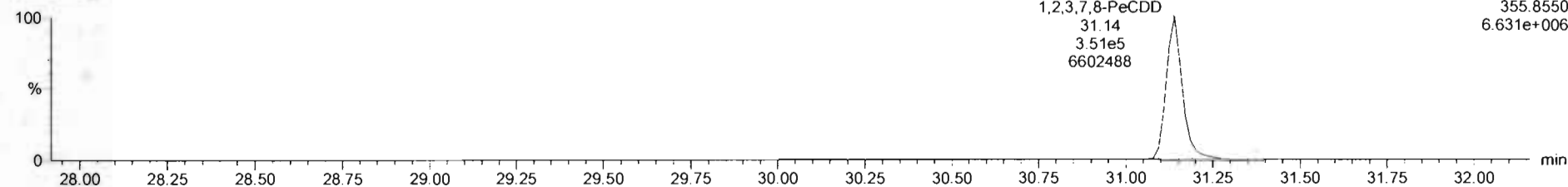
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1,2,3,7,8-PeCDD

200429R2_8

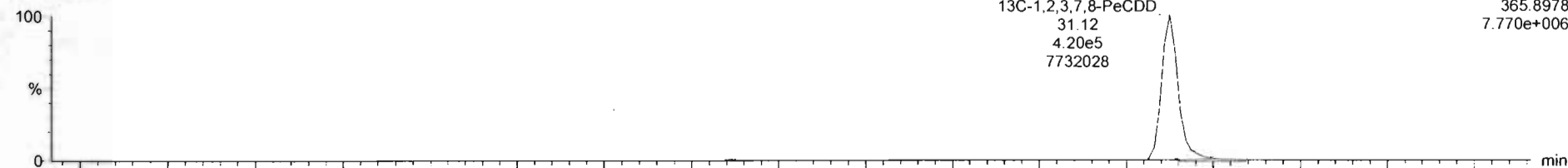


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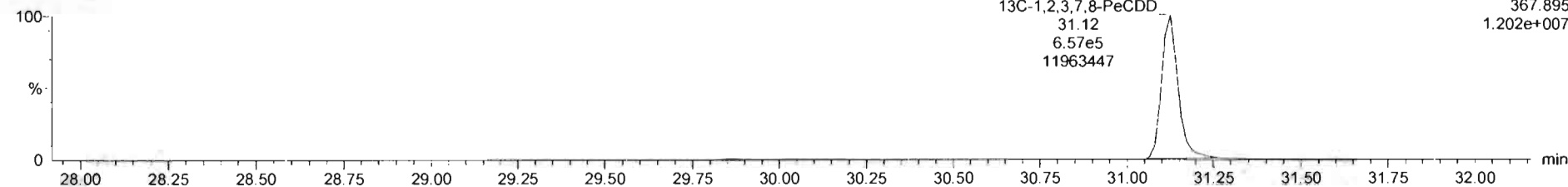


13C-1,2,3,7,8-PeCDD

200429R2_8



200429R2_8



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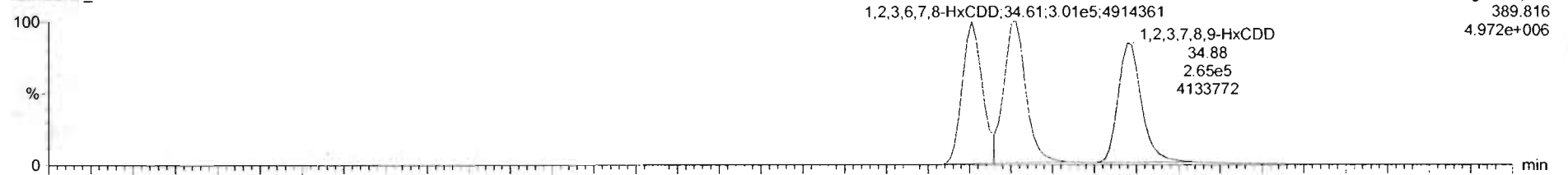
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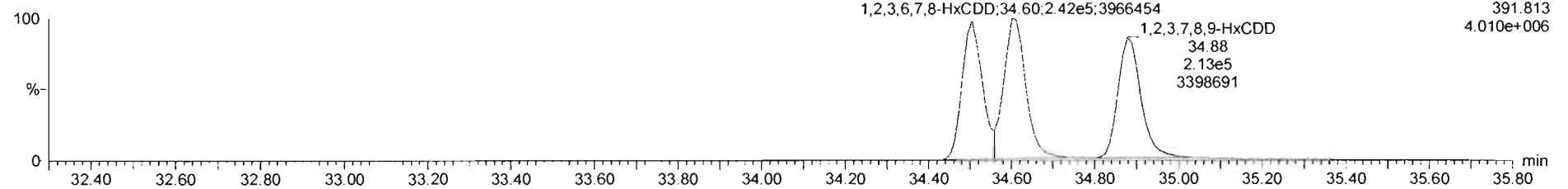
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1,2,3,4,7,8-HxCDD

200429R2_8

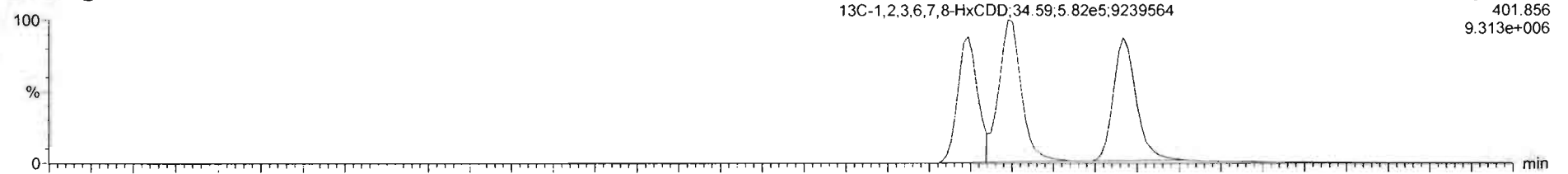


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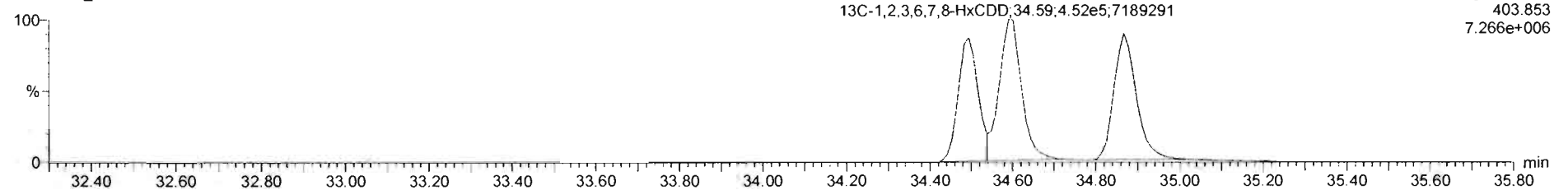


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200429R2_8



200429R2_8



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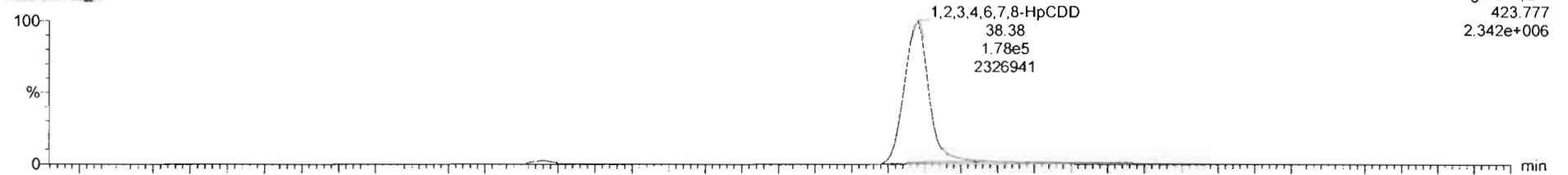
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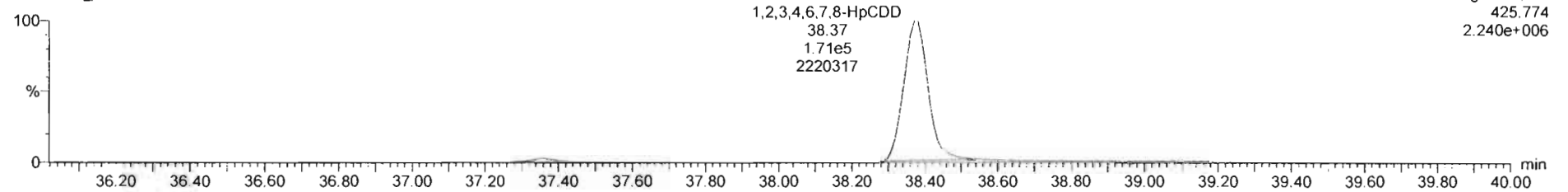
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1,2,3,4,6,7,8-HpCDD

200429R2_8

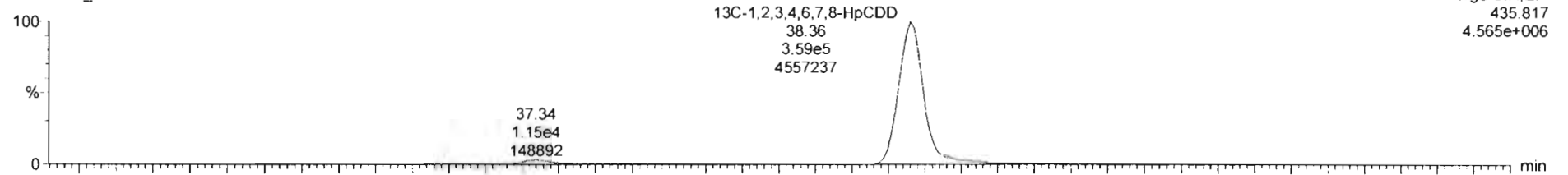


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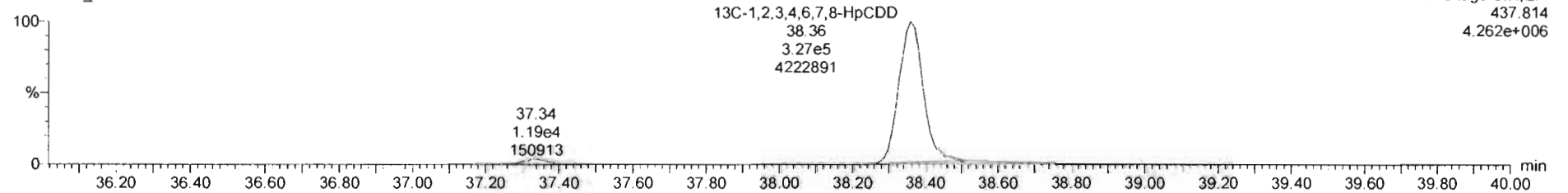


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200429R2_8



200429R2_8

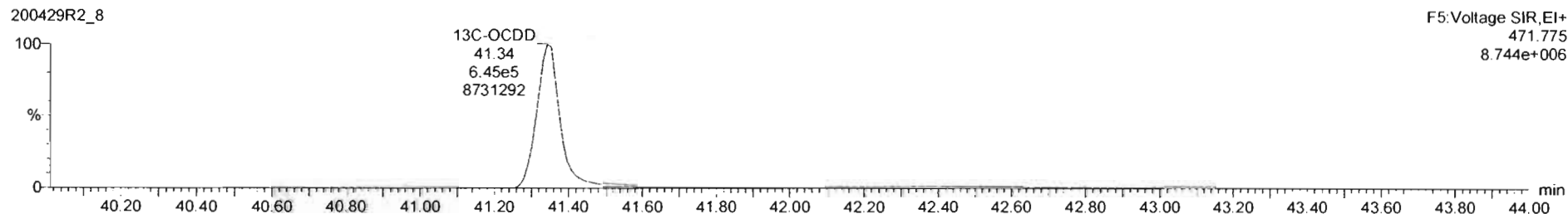
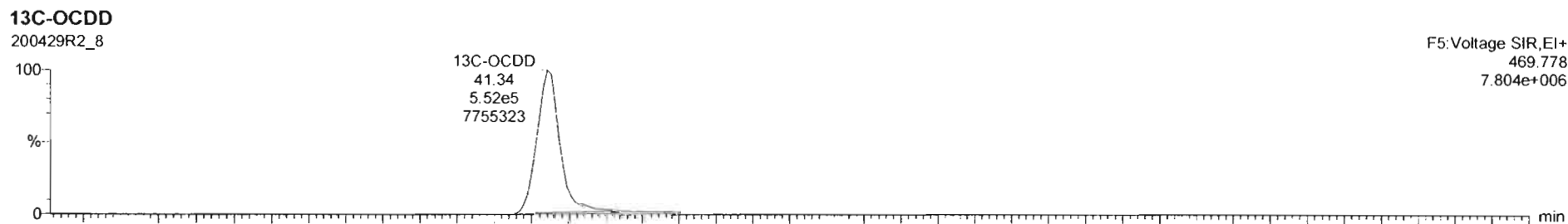
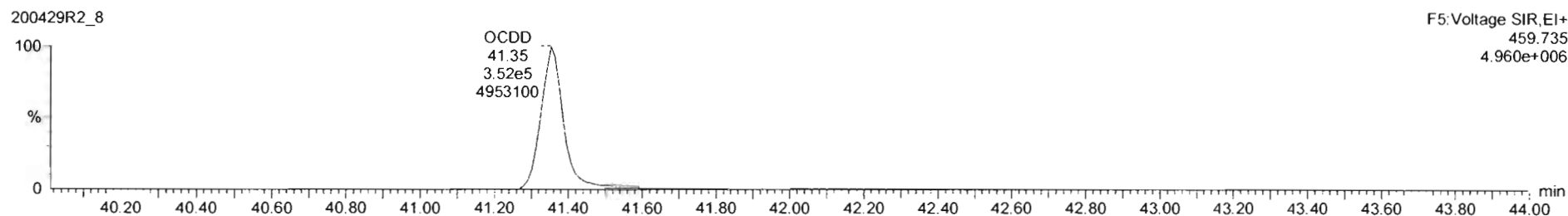
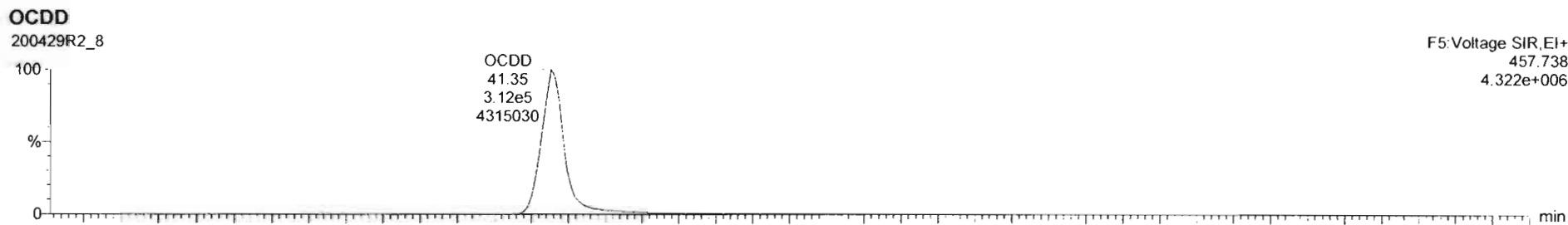


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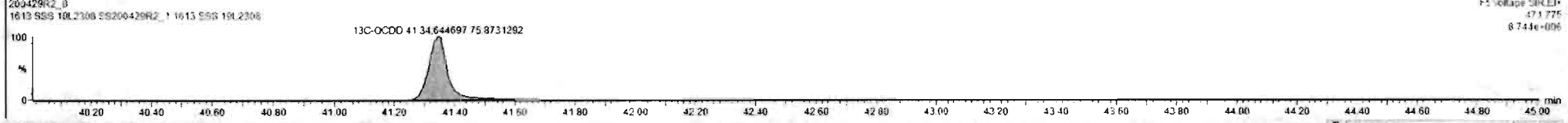
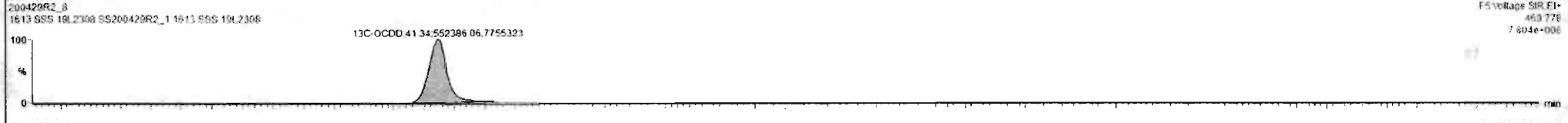
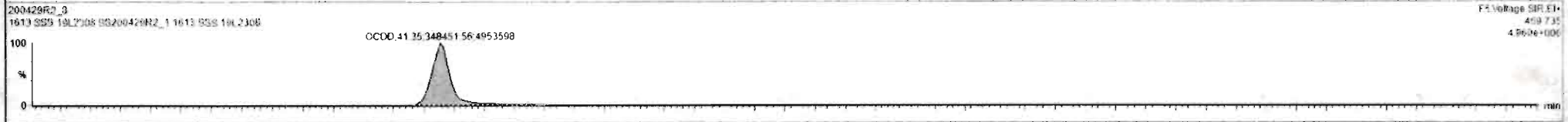
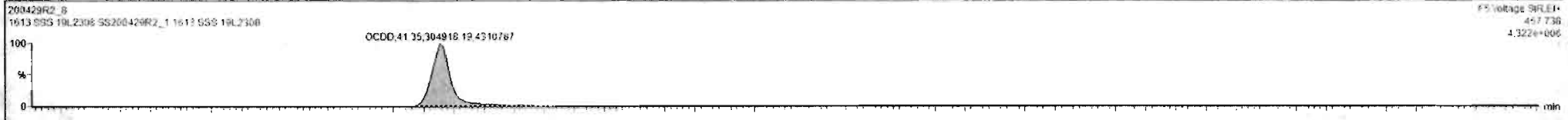
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Name: 200429R2_8, Date: 29-Apr-2020, Time: 18:58:05, ID: SS200429R2_1 1613 SSS 19L2308, Description: 1613 SSS 19L2308



Name	Resp	RA	inj	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	56.0	11.6	0.102	56.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8919	1.000	36.38	1.001	56.7	11.3	0.145	56.7
7 OCDD	6.53e5	0.55	NO	0.9325	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	5.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.8
10 2,3,4,7,8-PeCDF	1.00e6	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.22	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.78	1.000	56.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	11.1	0.152	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.99e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	0.13e5	0.66	NO	0.8021	1.000	41.53	1.000	115	11.5	0.158	115



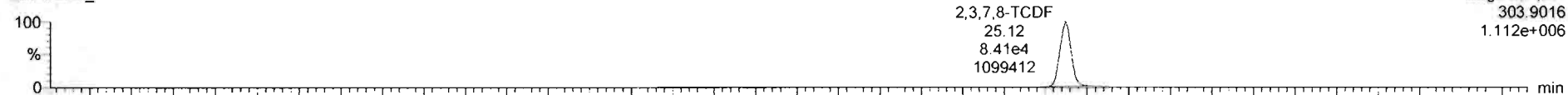
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Printed: Thursday, April 30, 2020 8:38:30 AM Pacific Daylight Time

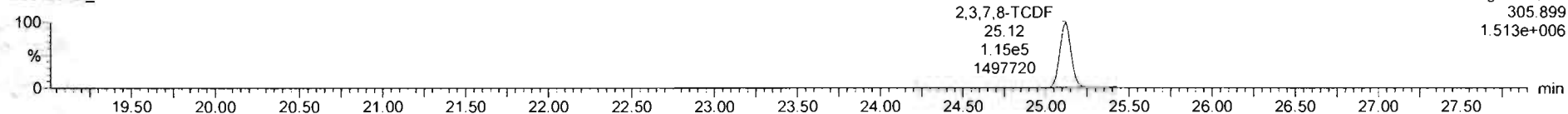
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2,3,7,8-TCDF

200429R2_8

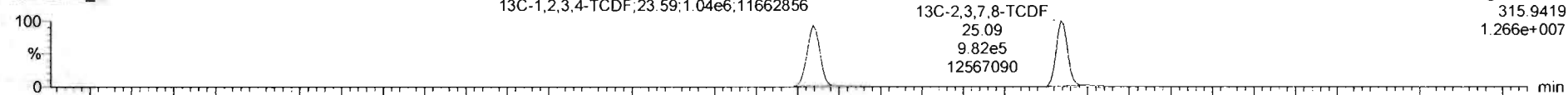


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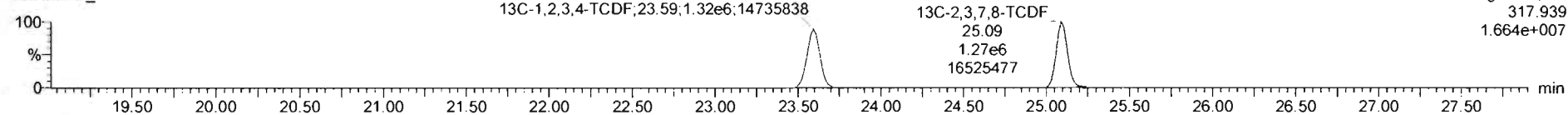


13C-2,3,7,8-TCDF

200429R2_8

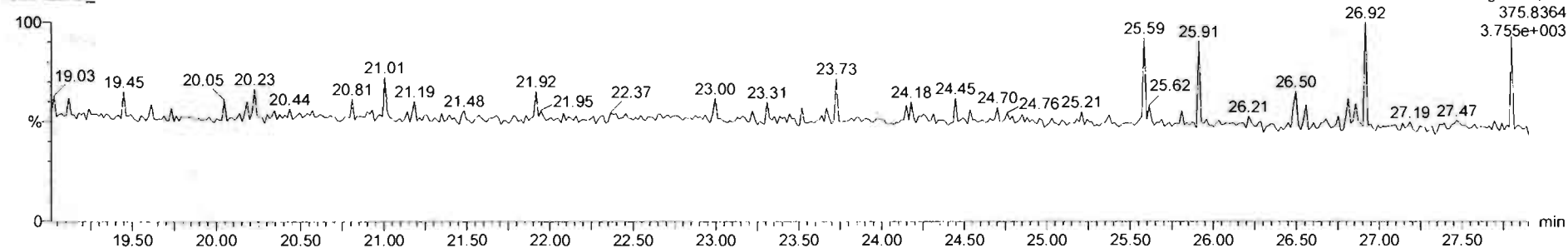


200429R2_8



DPE1

200429R2_8



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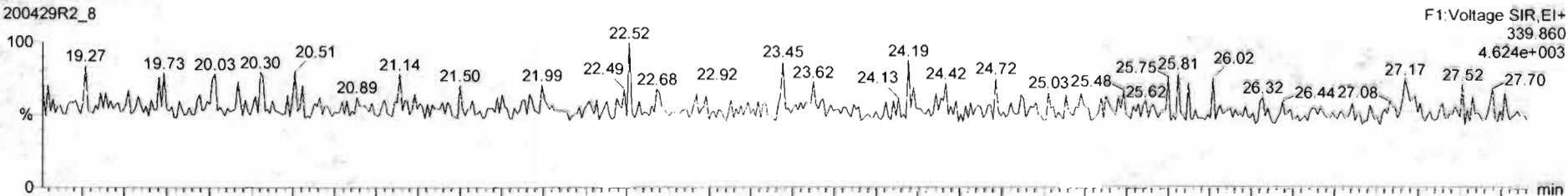
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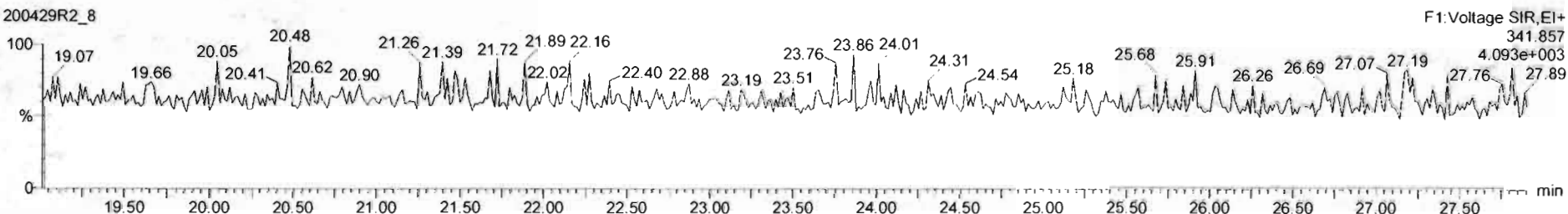
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200429R2_8

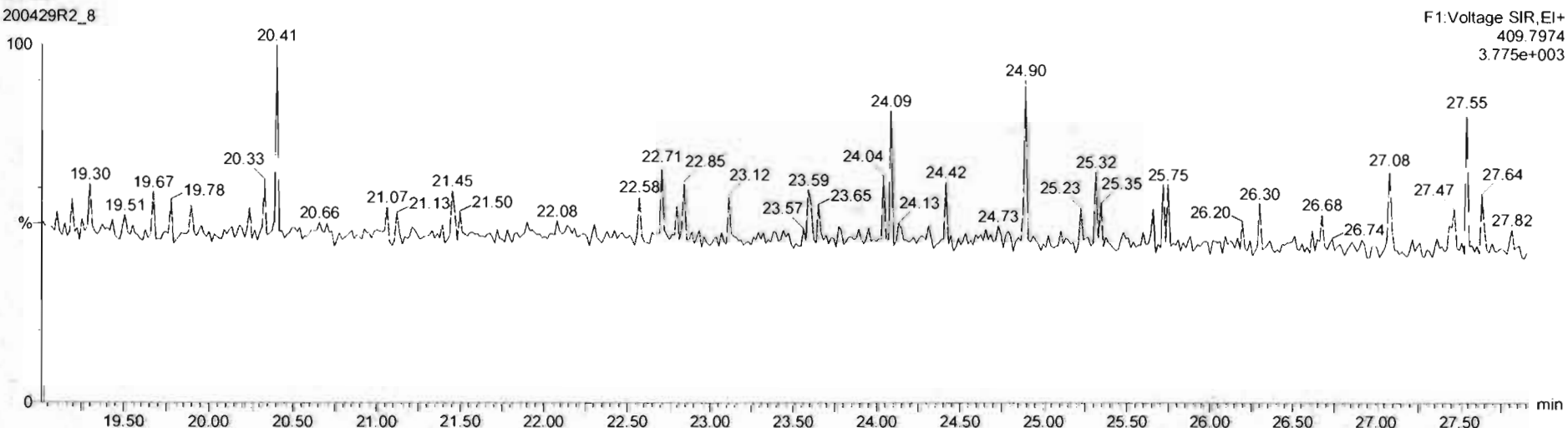


200429R2_8



DPE6

200429R2_8



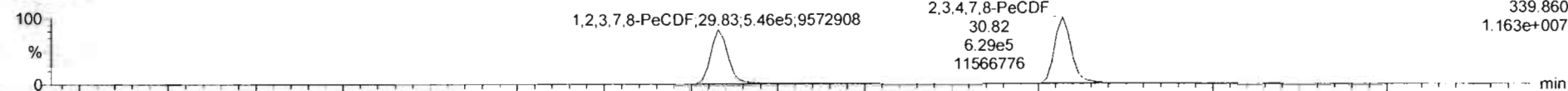
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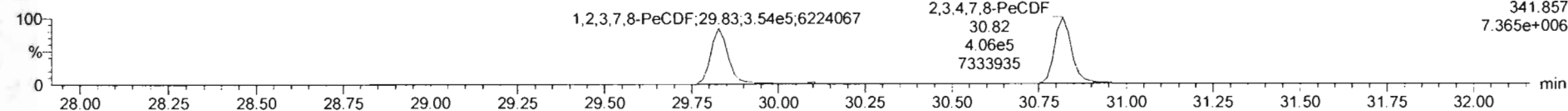
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1,2,3,7,8-PeCDF

200429R2_8



200429R2_8

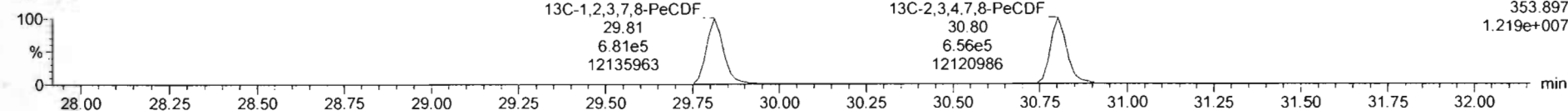


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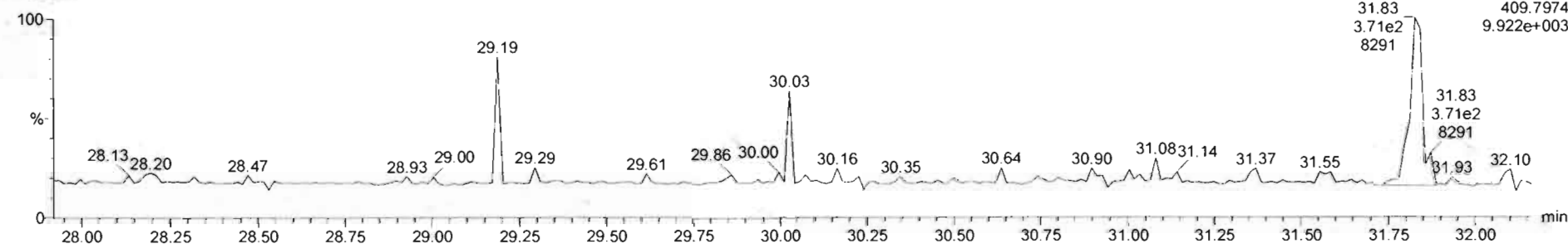


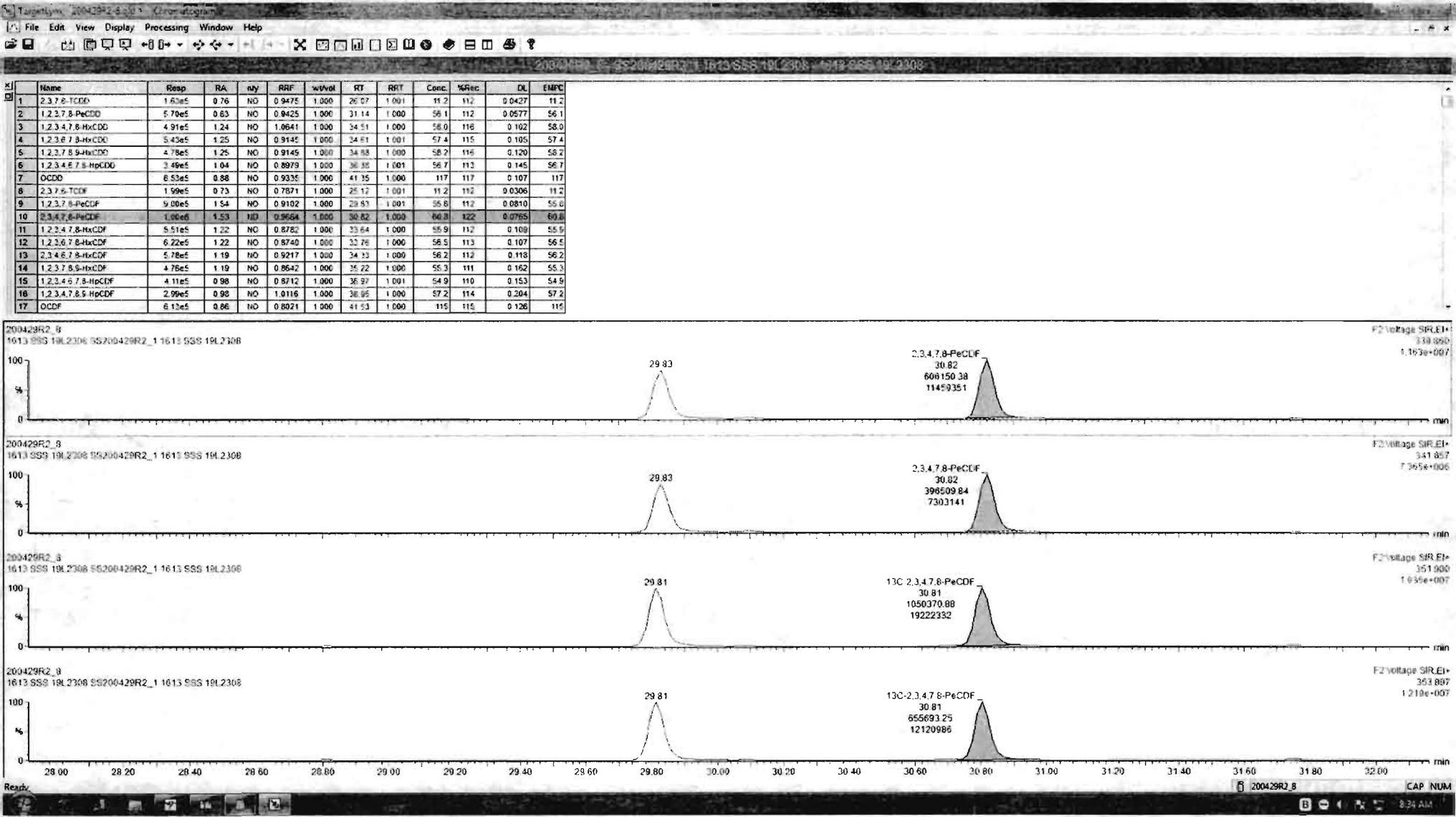
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DPE2

200429R2_8





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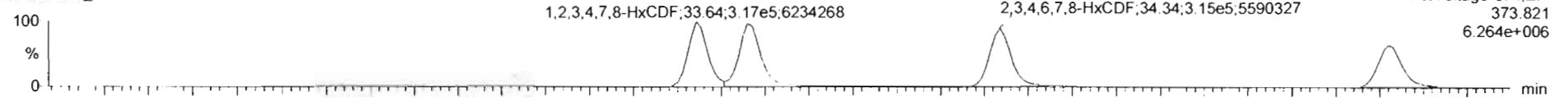
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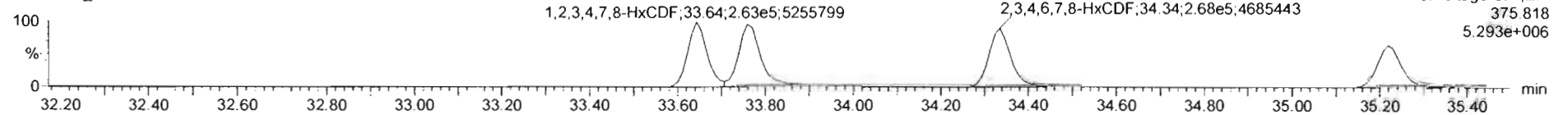
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1,2,3,4,7,8-HxCDF

200429R2_8

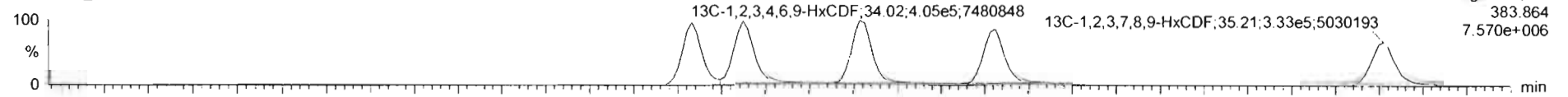


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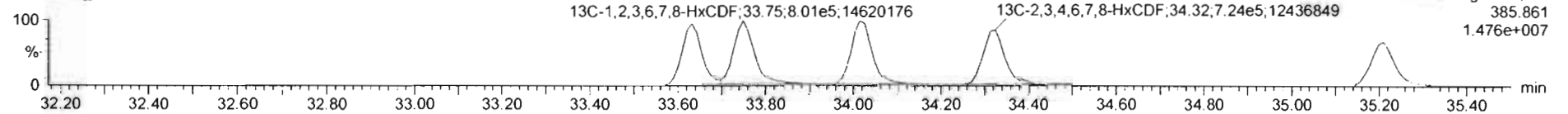


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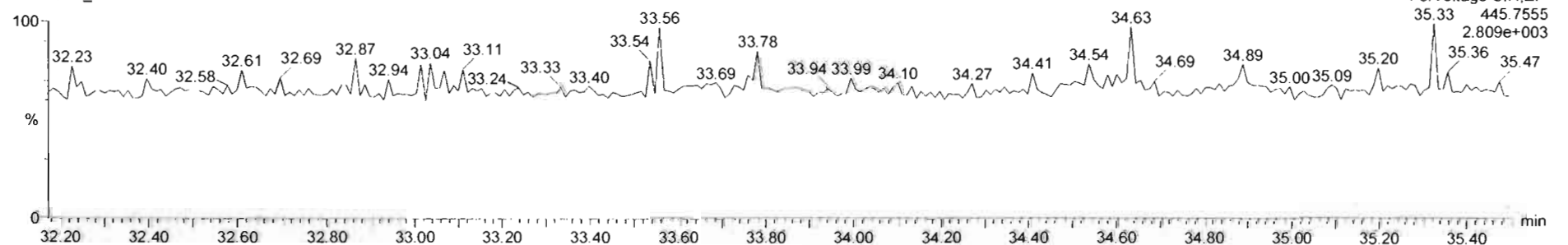


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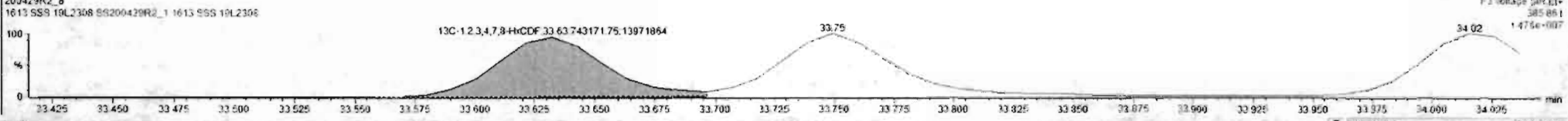
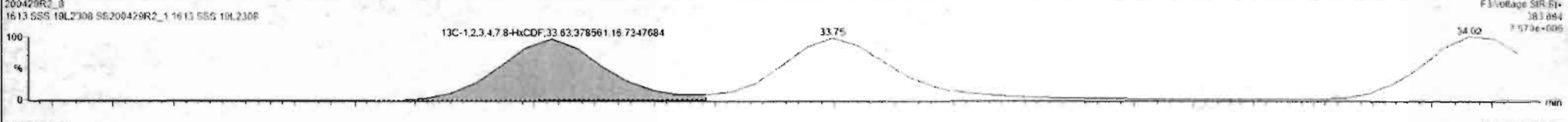
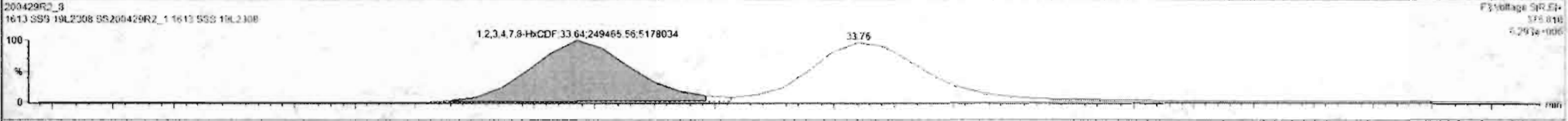
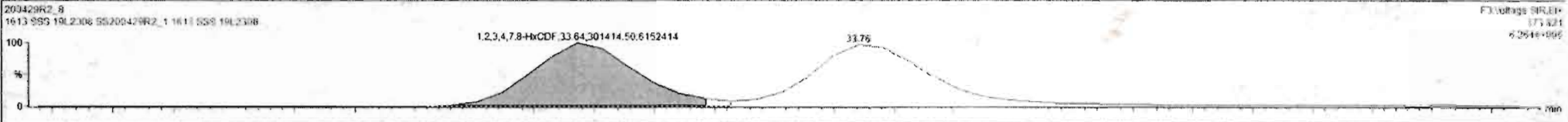
DPE3

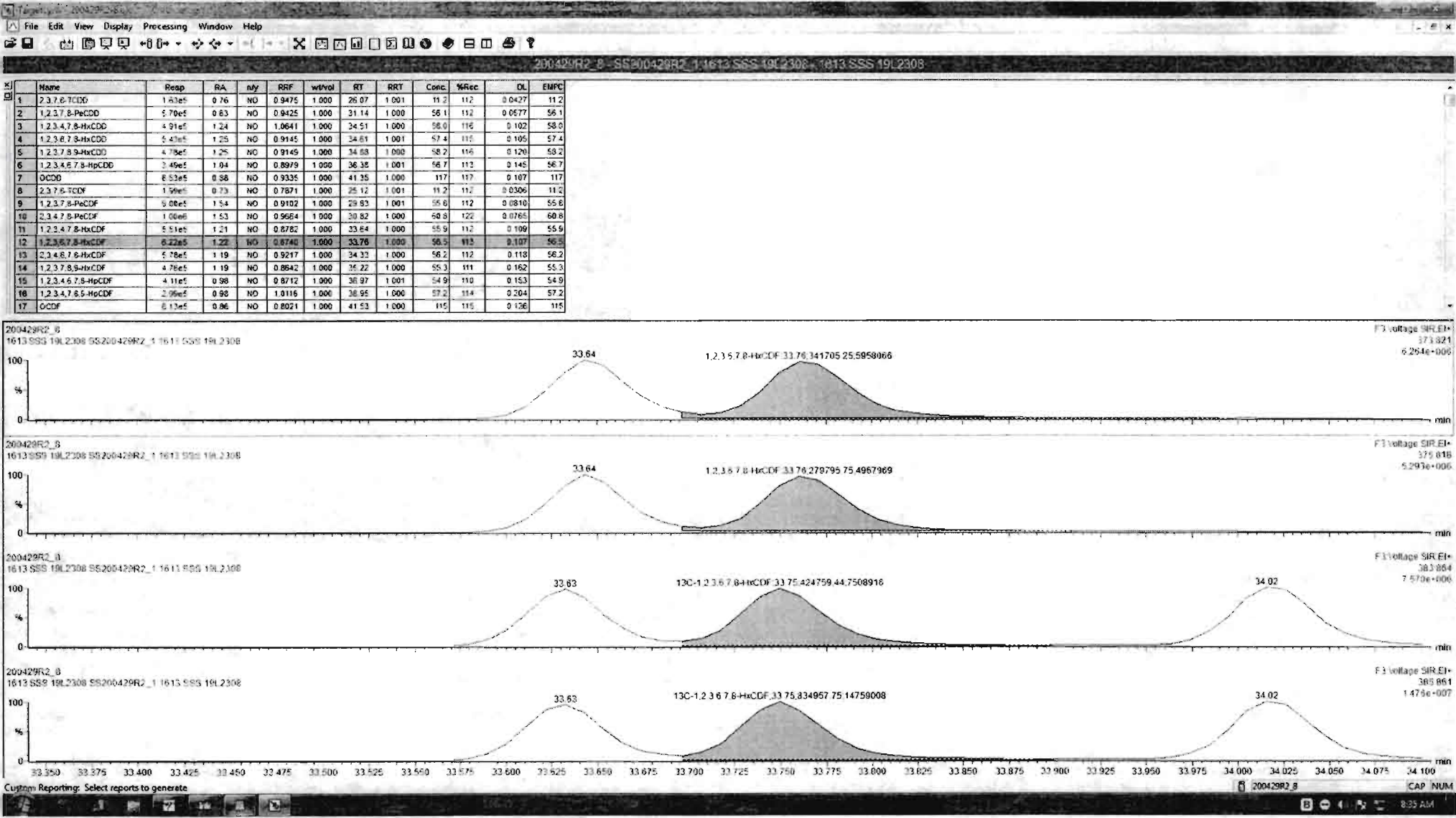
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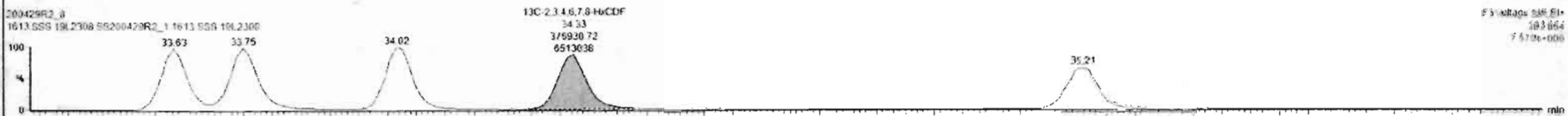
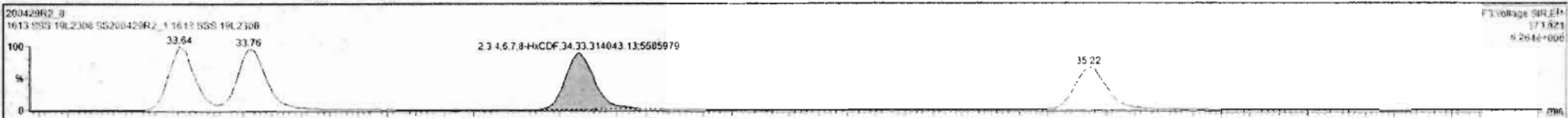
200429R2_8 - SS200429R2_1 1613 SSS 19L2308 - 1613 SSS 19L2308

#	Name	Resp	RA	dy	RRF	wVol	RT	RRT	Conc	%Rec	DL	EMPC
1	2,3,7,8-TCDF	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	112	0.0427	11.2
2	1,2,3,7,8-PeCDF	5.79e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	112	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	116	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.01	1.001	57.4	115	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9149	1.000	34.08	1.000	58.2	116	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.36	1.001	56.7	113	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	117	0.107	117
8	2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	112	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.08e5	1.54	NO	0.9192	1.000	29.93	1.001	55.6	112	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	122	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.31	NO	0.6782	1.000	33.64	1.000	55.9	112	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	113	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	112	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.78e5	1.19	NO	0.8542	1.000	35.22	1.000	55.3	111	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	110	0.153	54.9
16	1,2,3,4,7,8,9-HpCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	114	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	115	0.126	115

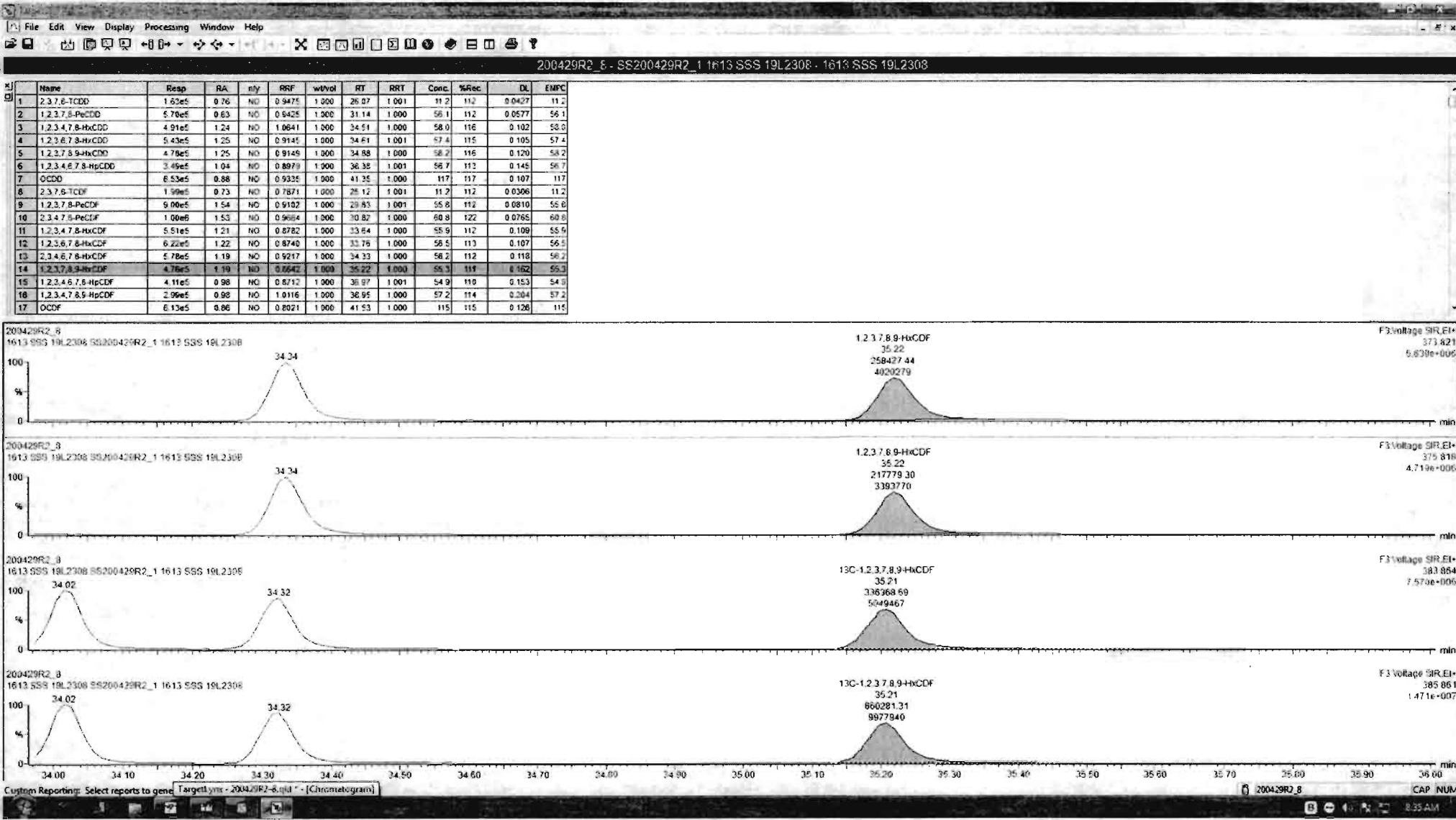




#	Name	Resp	RA	nly	RRF	wtvol	RT	RRT	Conc.	%Rec	DL	EMPC
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2	1,2,3,7,8-PeCDD	5.70e5	0.83	NO	0.9425	1.000	31.14	1.000	56.1	11.2	0.0577	56.1
3	1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4	1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.6	0.105	57.4
5	1,2,3,7,8,9-HxCDD	4.78e5	1.25	NO	0.9145	1.000	34.88	1.000	58.2	11.6	0.120	58.2
6	1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.38	1.001	58.7	11.3	0.145	56.7
7	OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8	2,3,7,8-TCDF	1.59e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9	1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.83	1.001	55.8	11.2	0.0810	55.6
10	2,3,4,7,8-PeCDF	1.00e6	1.52	NO	0.9654	1.000	29.82	1.000	60.8	12.2	0.0765	60.8
11	1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.64	1.000	55.9	11.2	0.109	55.9
12	1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	56.5	11.3	0.107	56.5
13	2,3,4,6,7,8-HxCDF	5.79e5	1.18	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14	1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	35.22	1.000	55.3	11.1	0.162	55.3
15	1,2,3,4,6,7,8-HpCDF	4.11e5	0.98	NO	0.8712	1.000	36.97	1.001	54.9	11.0	0.153	54.9
16	1,2,3,4,7,8,9-HoCDF	2.96e5	0.98	NO	1.0116	1.000	36.95	1.000	57.2	11.4	0.204	57.2
17	OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.6	0.126	115



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Last Altered: Thursday, April 30, 2020 8:38:20 AM Pacific Daylight Time

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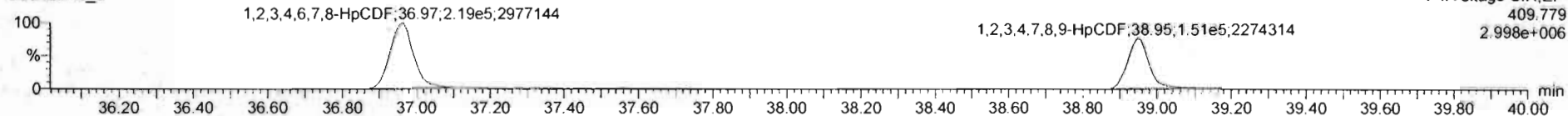
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200429R2_8

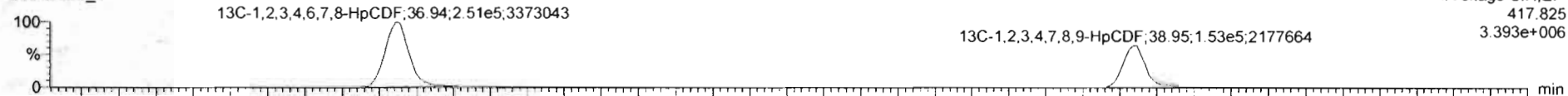


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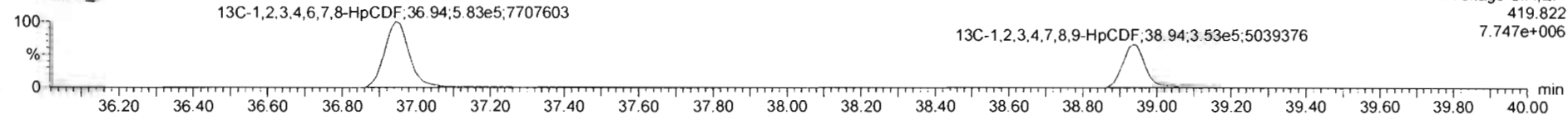


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200429R2_8

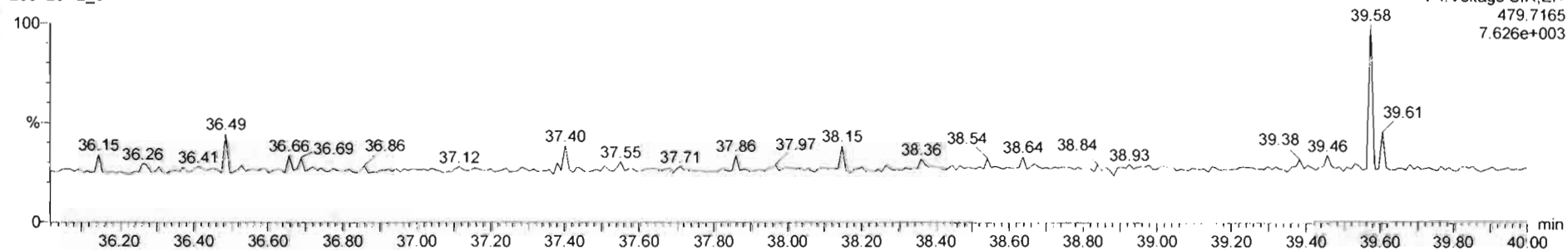


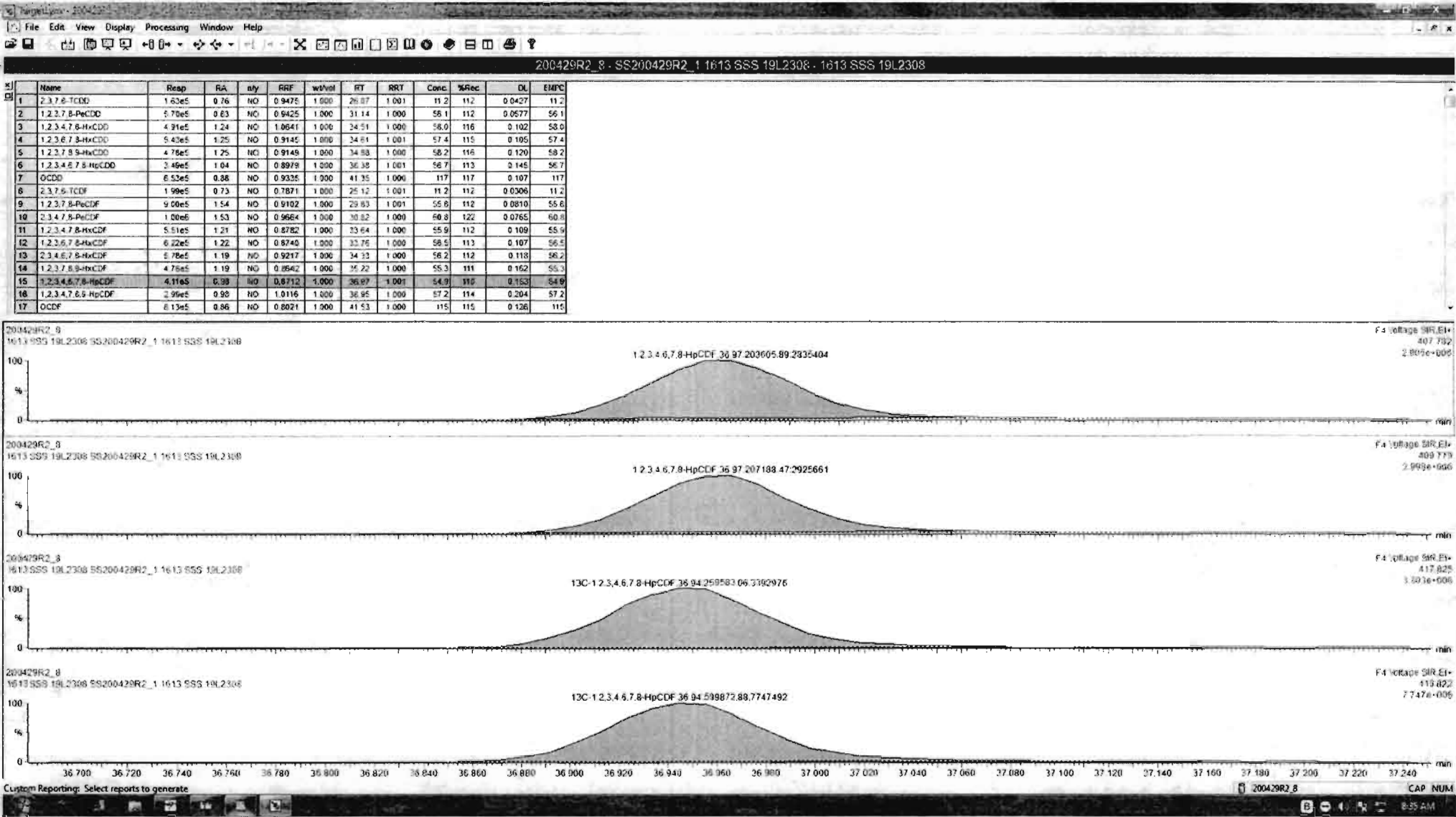
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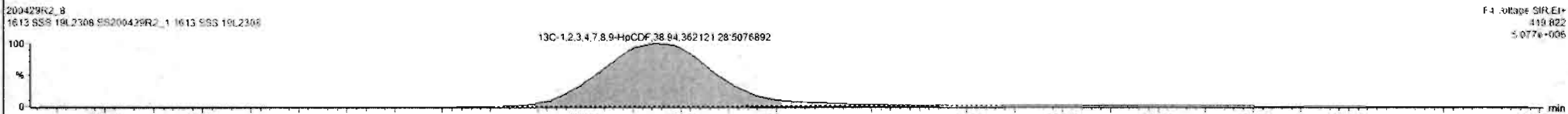
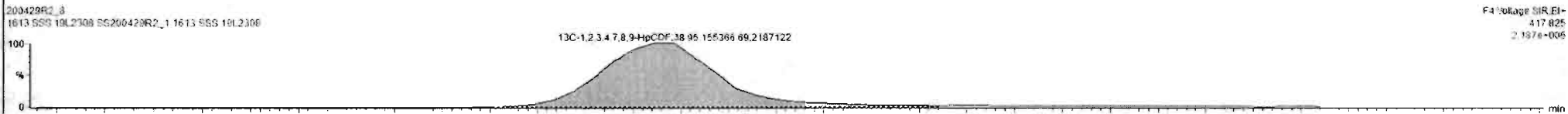
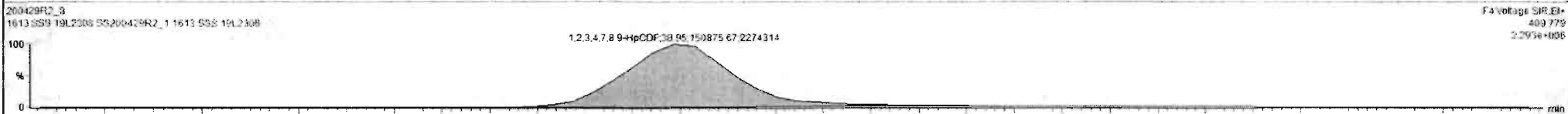
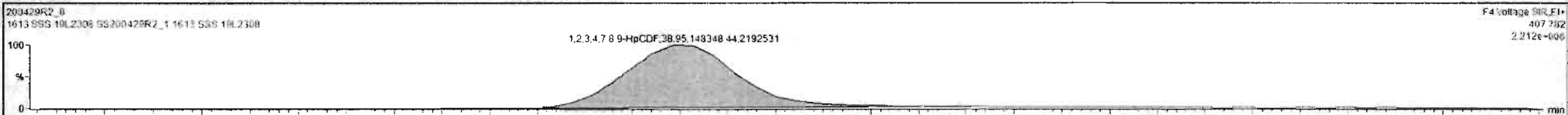
DPE4

200429R2_8





Name	Resp	RA	dy	RRF	wt/vol	RT	RRT	Conc	%Rec	DL	EMPC
1 2,3,7,8-TCDD	1.63e5	0.76	NO	0.9475	1.000	26.07	1.001	11.2	11.2	0.0427	11.2
2 1,2,3,7,8-PeCDD	4.70e5	0.83	NO	0.9425	1.000	31.14	1.000	58.1	11.2	0.0577	56.1
3 1,2,3,4,7,8-HxCDD	4.91e5	1.24	NO	1.0641	1.000	34.51	1.000	58.0	11.6	0.102	58.0
4 1,2,3,6,7,8-HxCDD	5.43e5	1.25	NO	0.9145	1.000	34.61	1.001	57.4	11.5	0.105	57.4
5 1,2,3,7,8,9-HxCDD	4.76e5	1.25	NO	0.9145	1.000	34.68	1.000	58.2	11.6	0.120	58.2
6 1,2,3,4,6,7,8-HpCDD	3.45e5	1.04	NO	0.8979	1.000	36.35	1.001	56.7	11.2	0.145	56.7
7 OCDD	6.53e5	0.88	NO	0.9335	1.000	41.35	1.000	117	11.7	0.107	117
8 2,3,7,8-TCDF	1.99e5	0.73	NO	0.7871	1.000	25.12	1.001	11.2	11.2	0.0306	11.2
9 1,2,3,7,8-PeCDF	9.00e5	1.54	NO	0.9102	1.000	29.63	1.001	55.6	11.2	0.0810	55.6
10 2,3,4,7,8-PeCDF	1.00e5	1.53	NO	0.9664	1.000	30.82	1.000	60.8	12.2	0.0765	60.8
11 1,2,3,4,7,8-HxCDF	5.51e5	1.21	NO	0.8782	1.000	33.84	1.000	55.9	11.2	0.109	55.9
12 1,2,3,6,7,8-HxCDF	6.22e5	1.22	NO	0.8740	1.000	33.76	1.000	58.5	11.3	0.107	56.5
13 2,3,4,6,7,8-HxCDF	4.78e5	1.19	NO	0.9217	1.000	34.33	1.000	56.2	11.2	0.118	56.2
14 1,2,3,7,8,9-HxCDF	4.76e5	1.19	NO	0.8642	1.000	34.22	1.000	55.3	11.1	0.162	55.3
15 1,2,3,4,6,7,8-HpCDF	4.11e5	0.86	NO	0.8712	1.000	35.97	1.001	54.9	11.0	0.153	54.9
16 1,2,3,4,7,8,9-HpCDF	2.95e5	0.96	NO	1.0115	1.000	35.95	1.000	57.2	11.4	0.204	57.2
17 OCDF	6.13e5	0.86	NO	0.8021	1.000	41.53	1.000	115	11.5	0.126	115

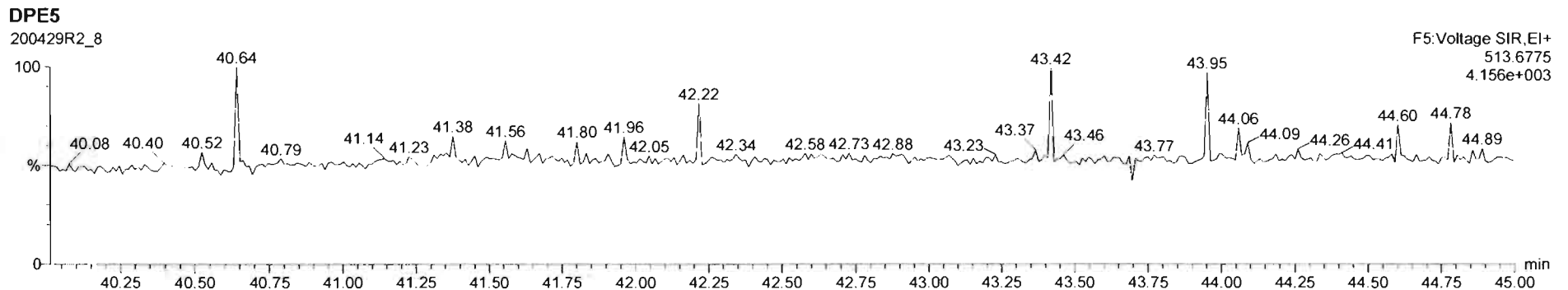
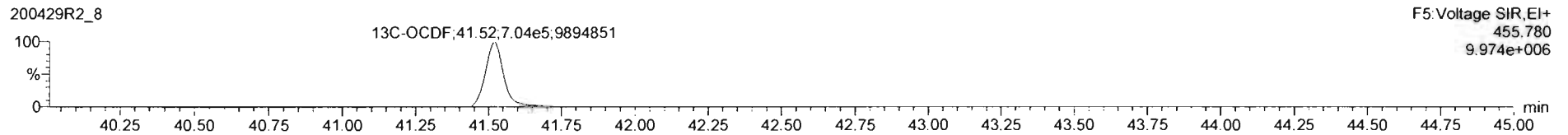
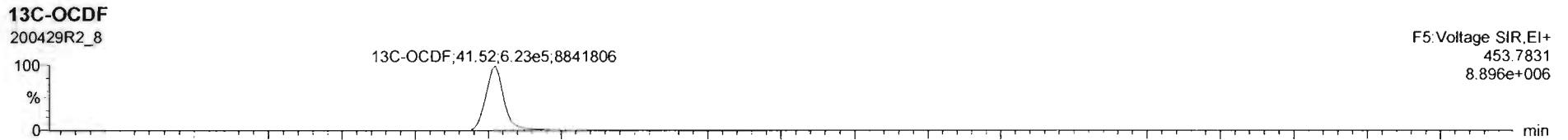
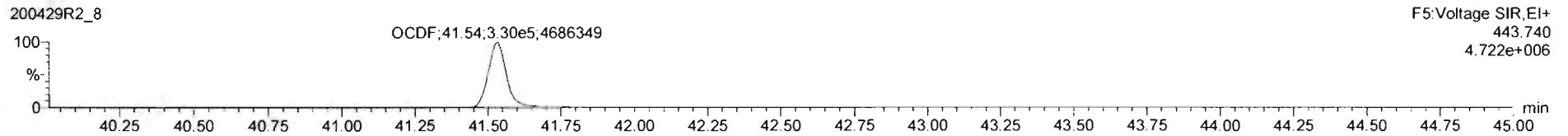
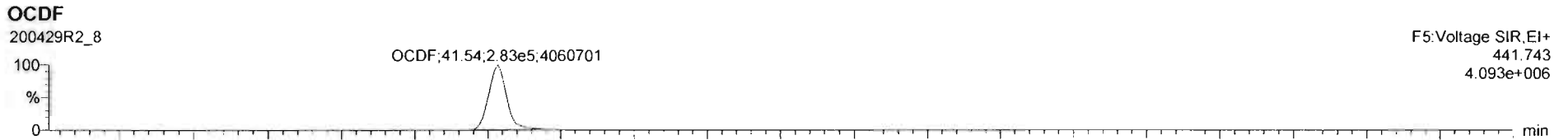


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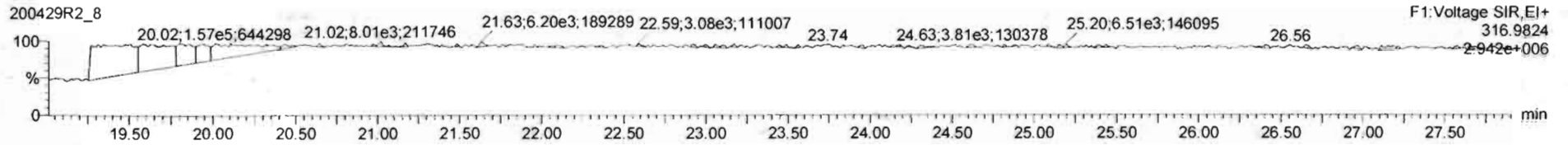
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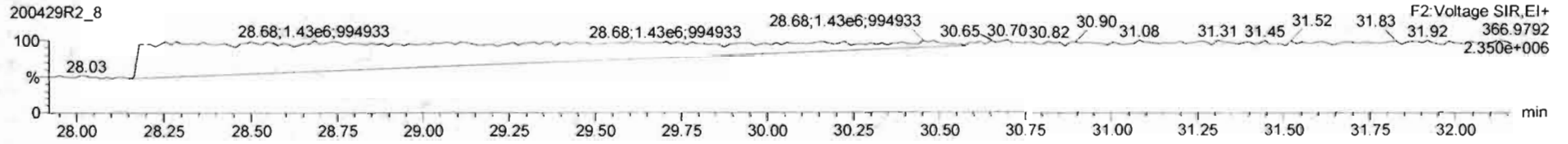
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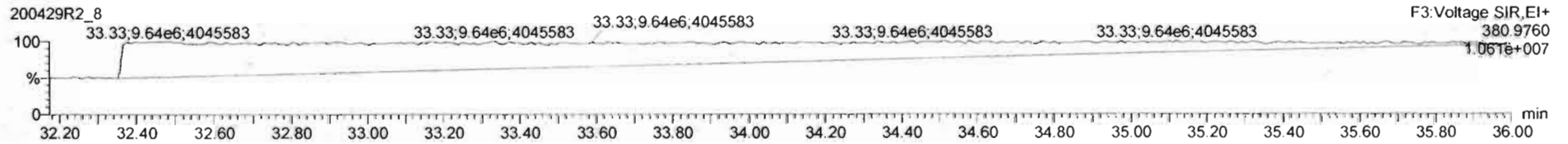
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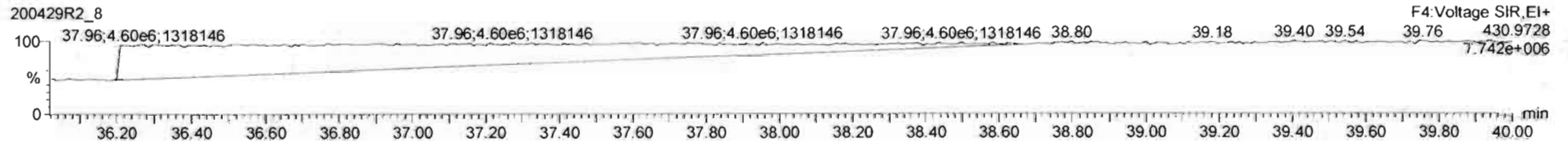
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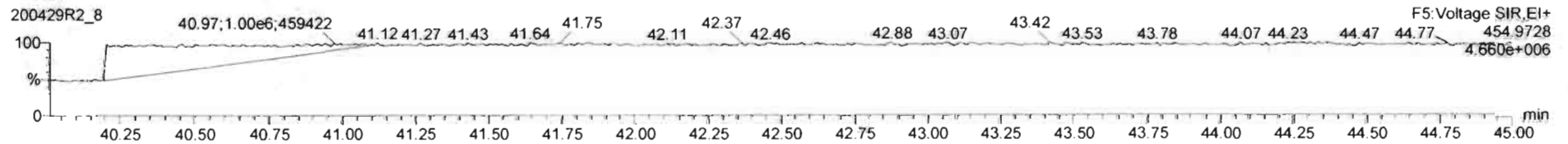
PFK3



PFK4



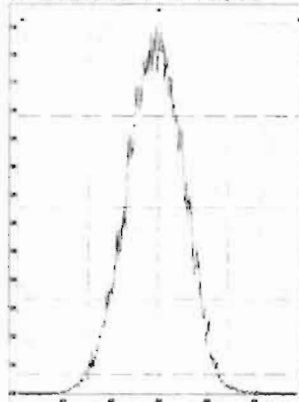
PFK5



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Printed: Thursday, April 30, 2020 07:17:15 Pacific Daylight Time

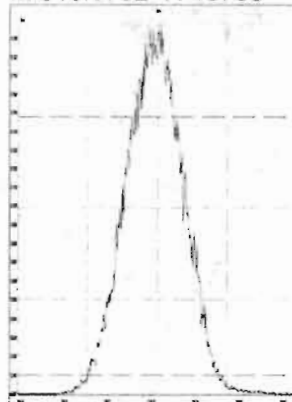
M 292.9824 R 10689



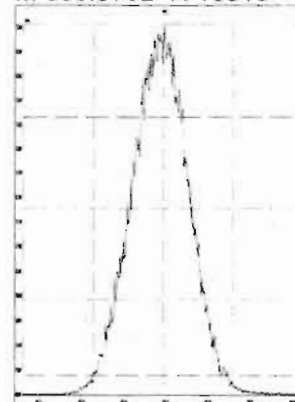
M 304.9824 R 11016



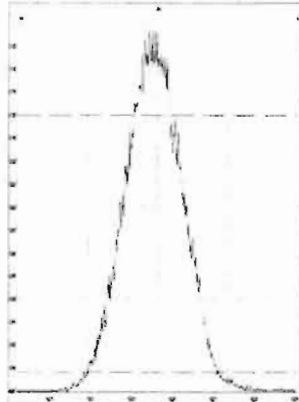
M 318.9792 R 10730



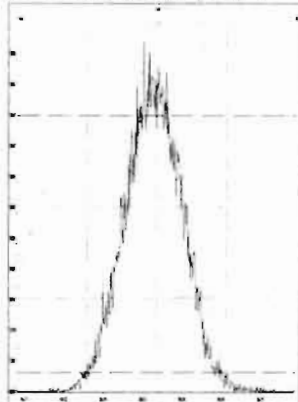
M 330.9792 R 10915



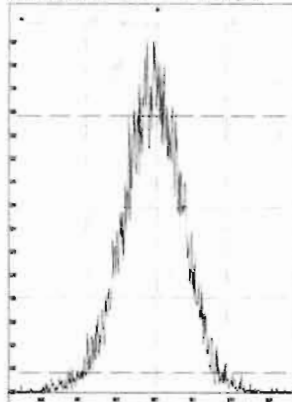
M 342.9792 R 10823



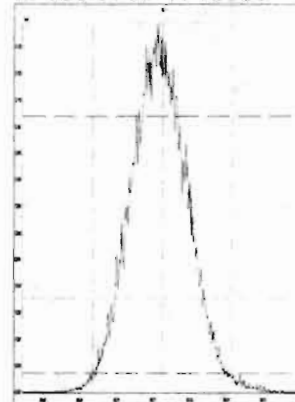
M 354.9792 R 11061



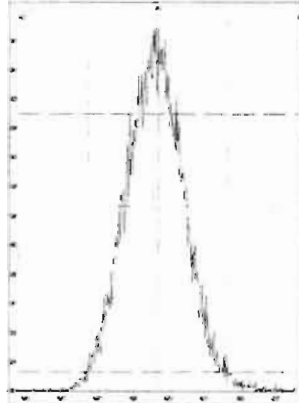
M 366.9792 R 10966



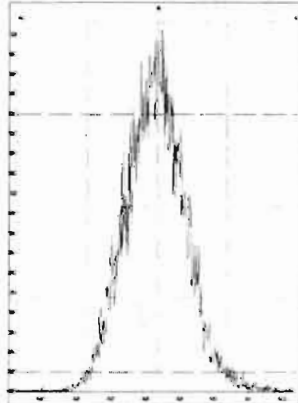
M 380.9760 R 10869



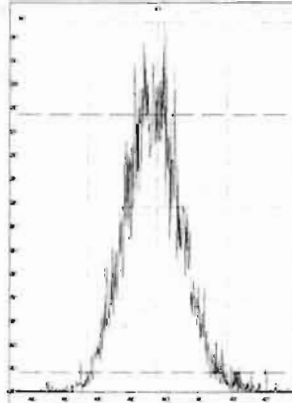
M 392.9760 R 10202



M 404.9760 R 10370



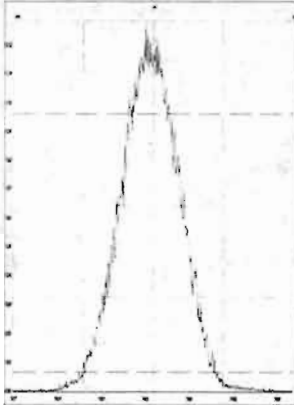
M 416.9760 R 11012



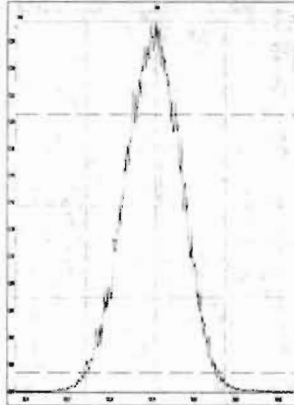
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 2 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:17:40 Pacific Daylight Time

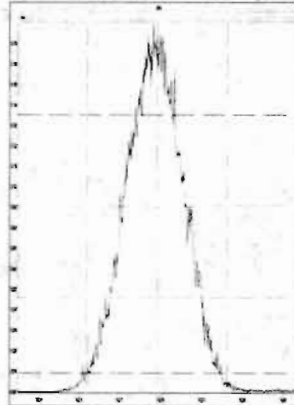
M 318.9792 R 10731



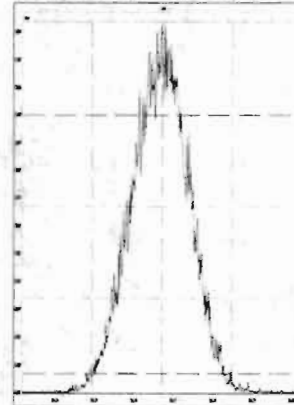
M 330.9792 R 10547



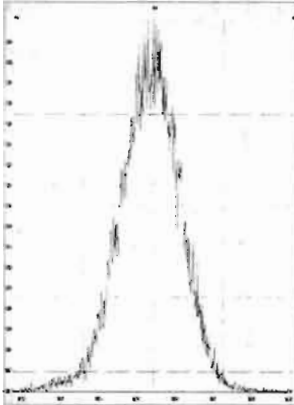
M 342.9792 R 10640



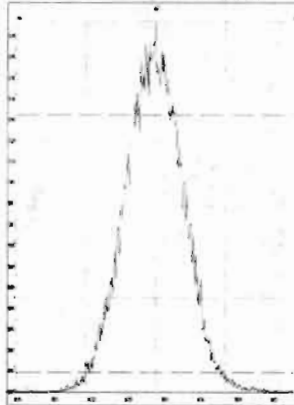
M 354.9792 R 10822



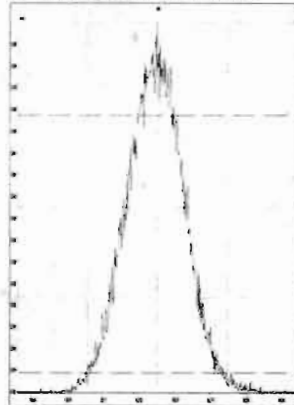
M 366.9792 R 10681



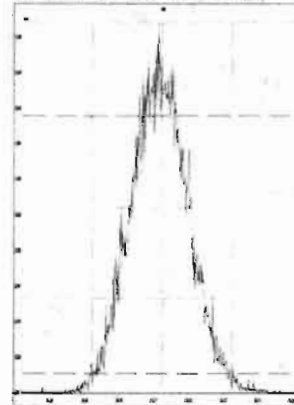
M 380.9760 R 10374



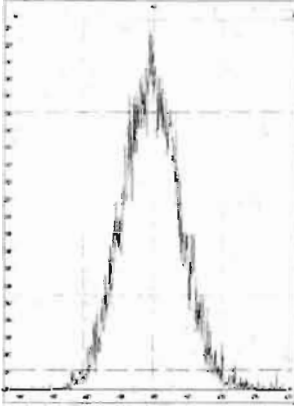
M 392.9760 R 10329



M 404.9760 R 10730



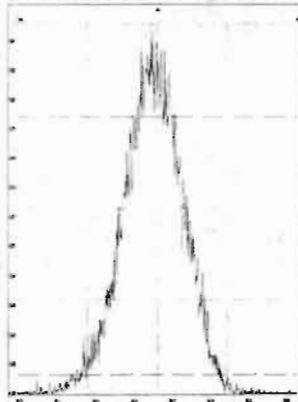
M 416.9760 R 12018



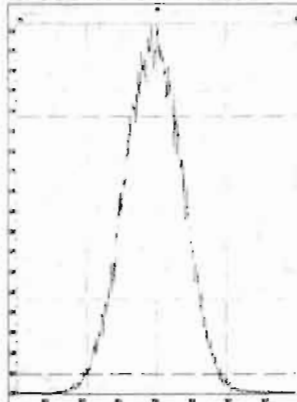
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 3 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:17:57 Pacific Daylight Time

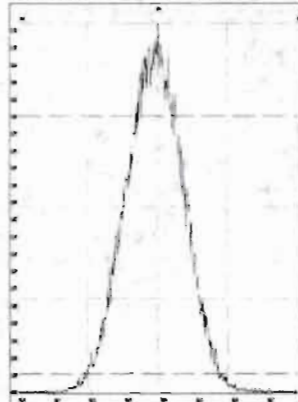
M 366.9792 R 10079



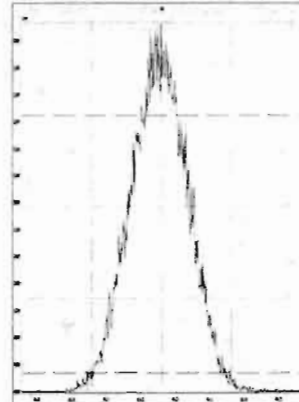
M 380.9760 R 10590



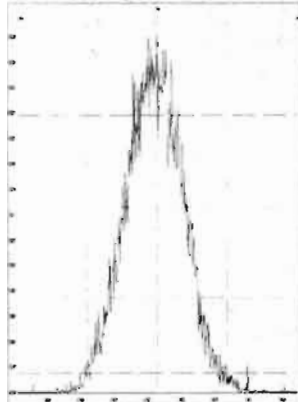
M 392.9760 R 10592



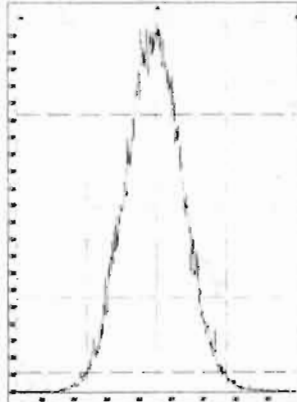
M 404.9760 R 11010



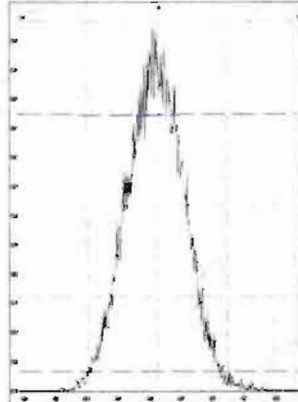
M 416.9760 R 10964



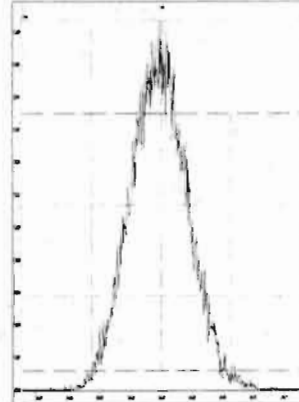
M 430.9728 R 10415



M 442.9728 R 10730



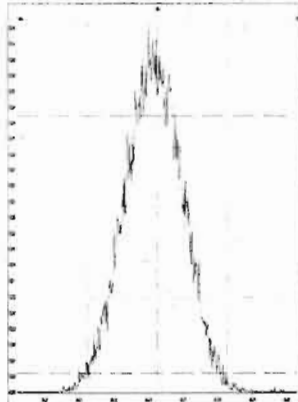
M 454.9728 R 11260



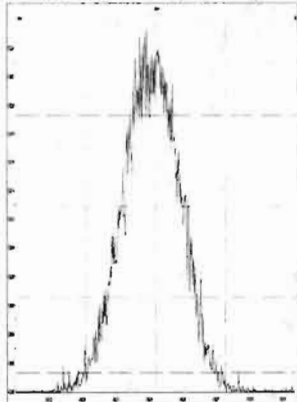
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 4 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:12 Pacific Daylight Time

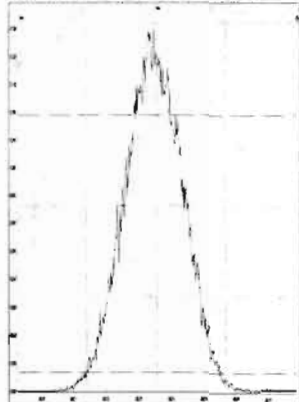
M 404.9760 R 10682



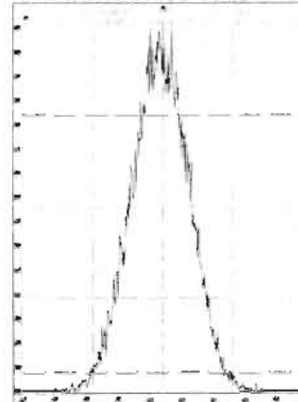
M 416.9760 R 10776



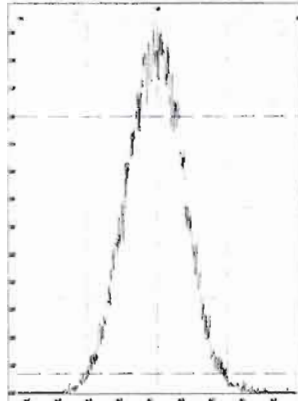
M 430.9728 R 10503



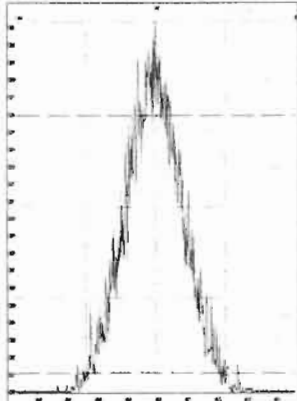
M 442.9728 R 10505



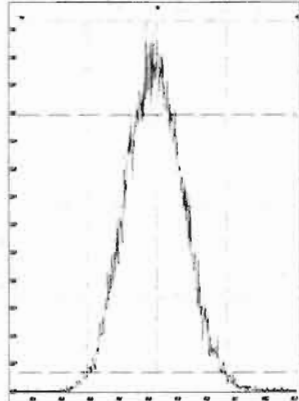
M 454.9728 R 10460



M 466.9728 R 10591



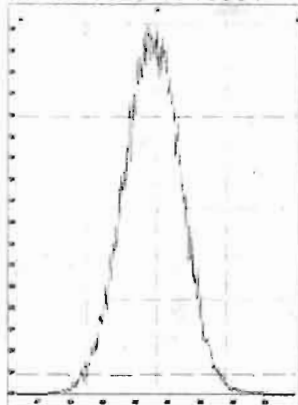
M 480.9696 R 10040



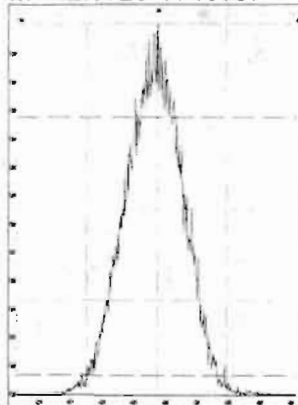
File: Experiment: OCDD_DB5.exp Reference: Pfk.ref Function: 5 @ 200 (ppm)

Printed: Thursday, April 30, 2020 07:18:29 Pacific Daylight Time

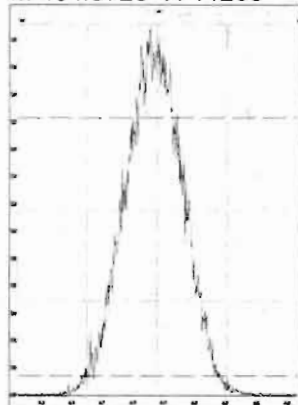
M 430.9728 R 10684



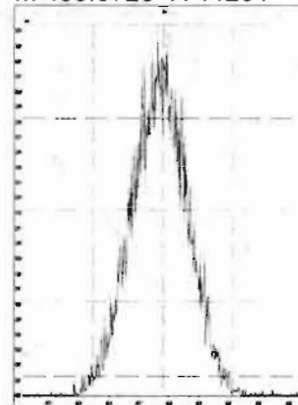
M 442.9728 R 10637



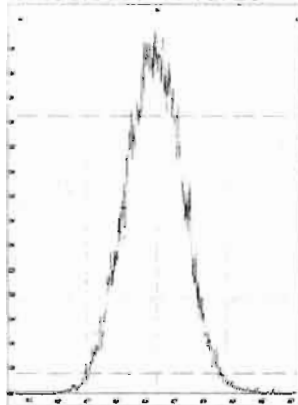
M 454.9728 R 11259



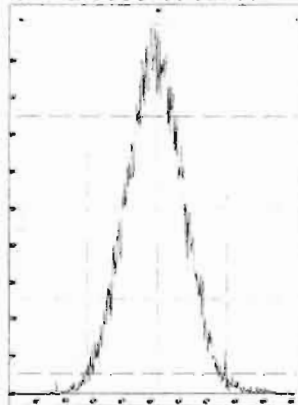
M 466.9728 R 11261



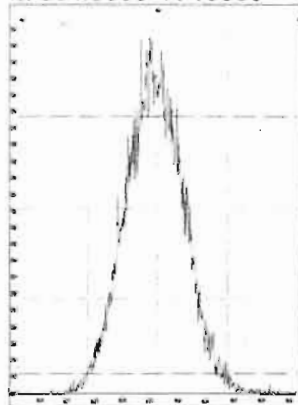
M 480.9696 R 10728



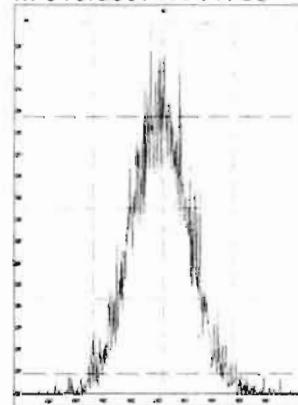
M 492.9696 R 10867



M 504.9696 R 10869



M 516.9697 R 11738



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 0102/12/2020

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

Vista Analytical Laboratory VG-9

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

Dataset: Untitled

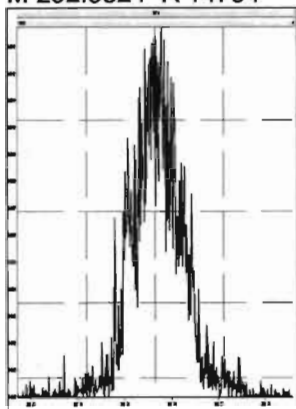
Last Altered: Wednesday, February 12, 2020 10:45:15 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:45:35 Pacific Standard Time

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

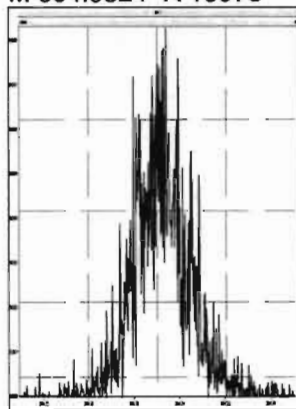
Compound name: 2,3,7,8-TCDF

	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

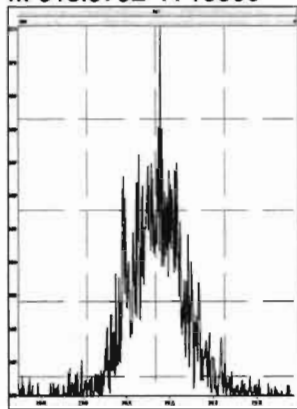
M 292.9824 R 14754



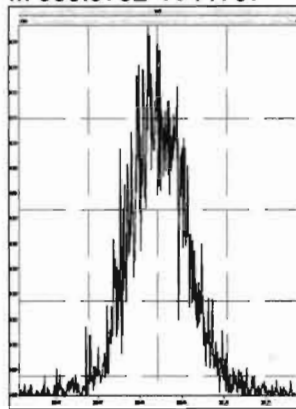
M 304.9824 R 15978



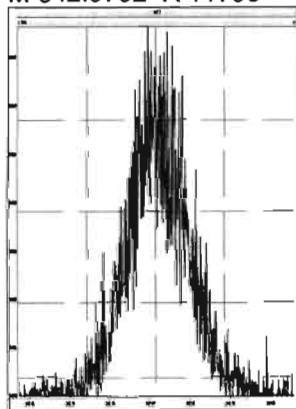
M 318.9792 R 15503



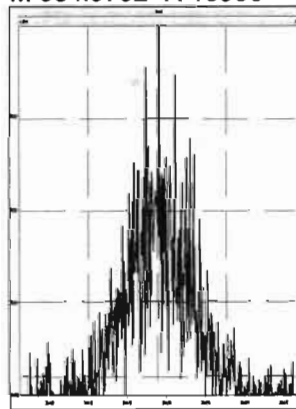
M 330.9792 R 11737



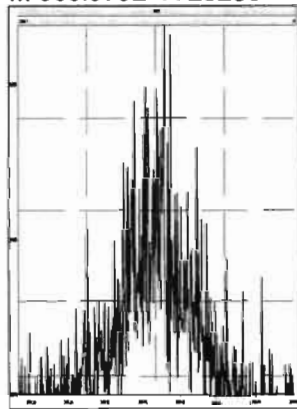
M 342.9792 R 11796



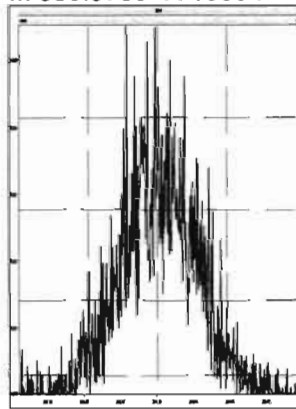
M 354.9792 R 15966



M 366.9792 R 28256



M 380.9760 R 13094



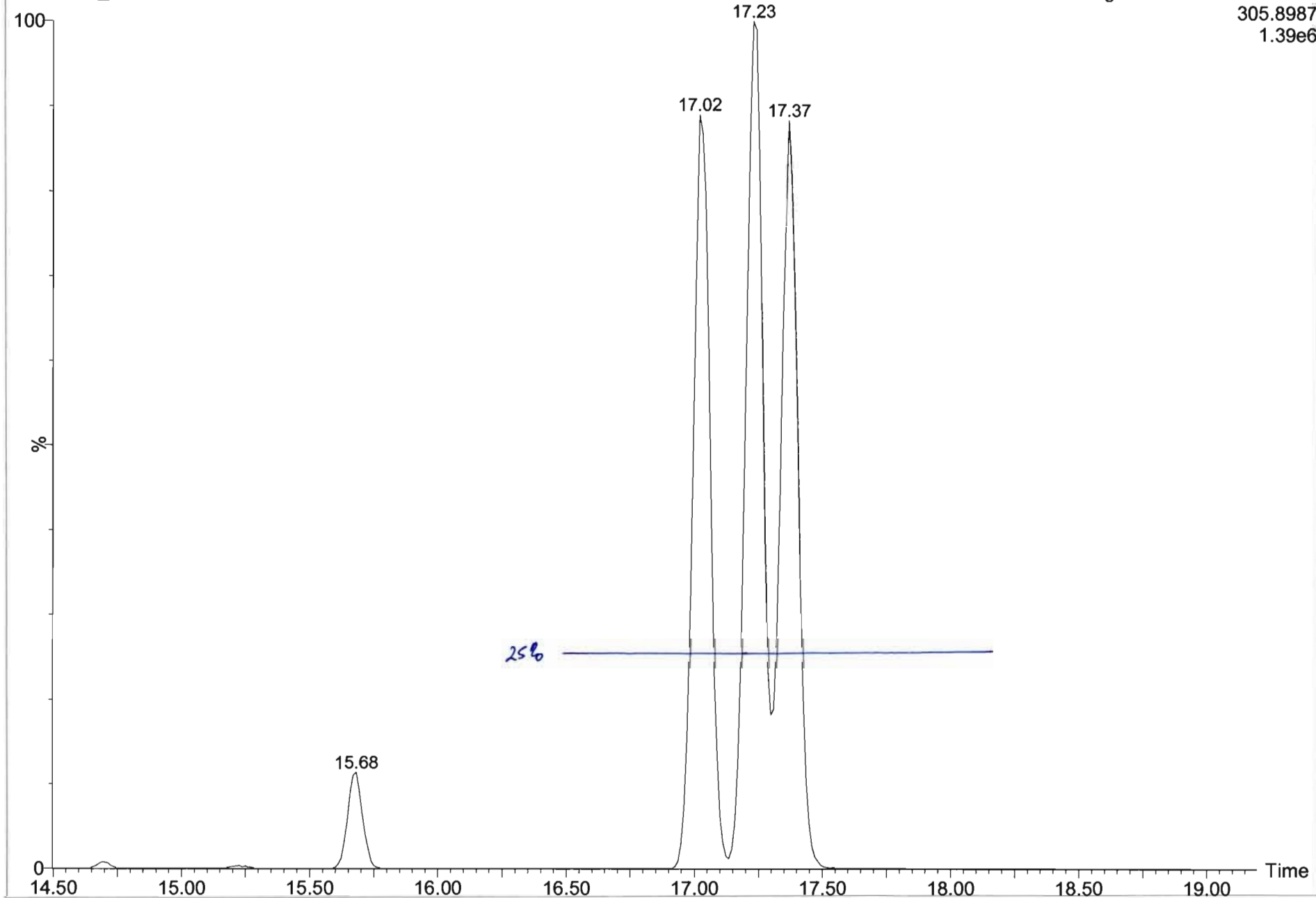
200211D2_2

20:28:53

Voltage SIR 12 Channels EI+

305.8987

1.39e6



Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

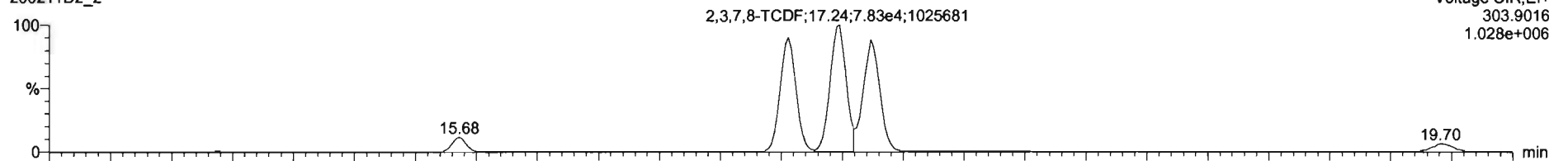
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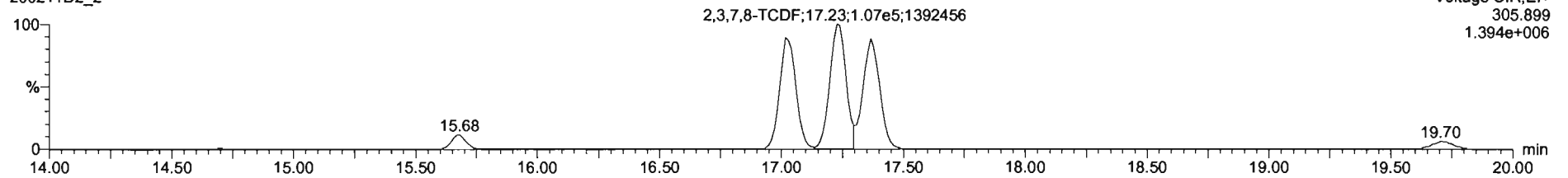
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2,3,7,8-TCDF

200211D2_2

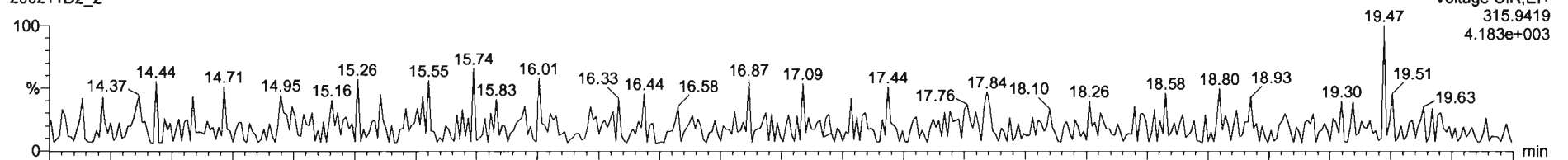


200211D2_2

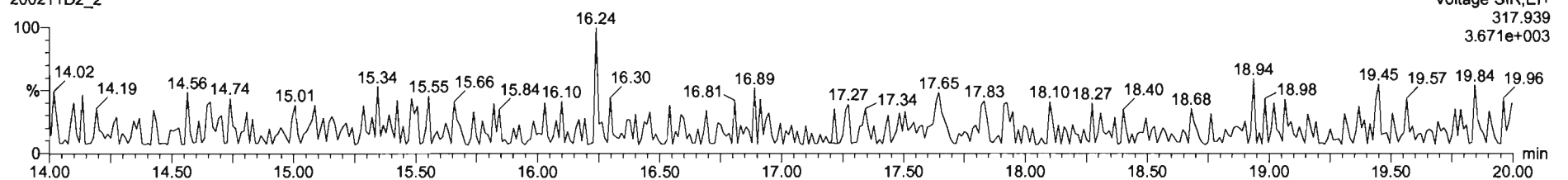


13C-2,3,7,8-TCDF

200211D2_2



200211D2_2

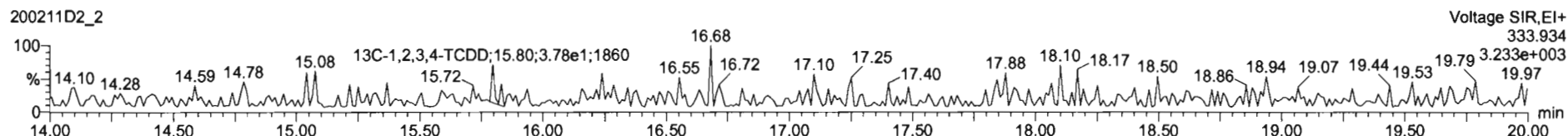
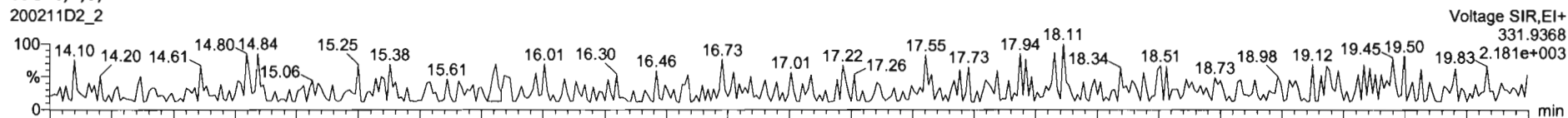


Dataset: U:\VG7.PRO\Results\200211D2\200111D2_2.qld

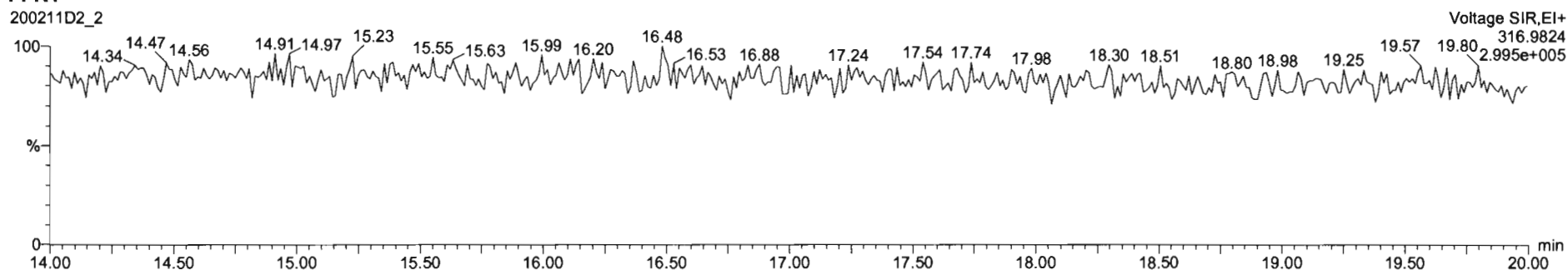
Last Altered: Wednesday, February 12, 2020 10:13:49 Pacific Standard Time
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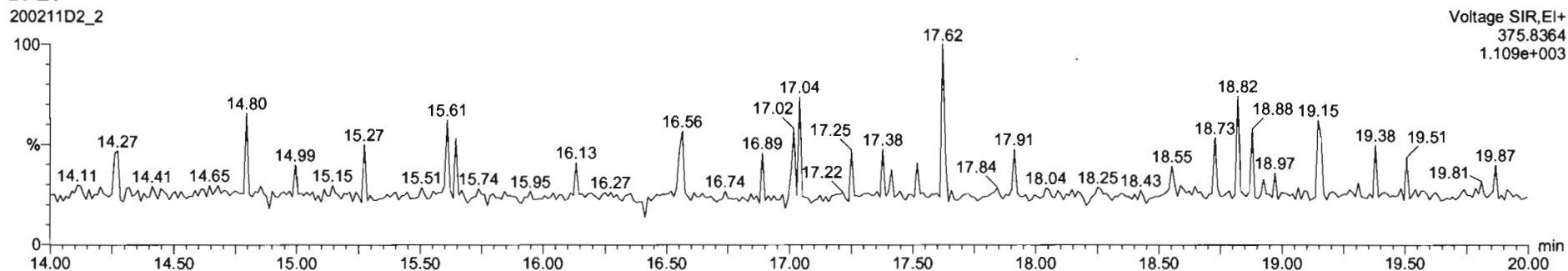
13C-1,2,3,4-TCDD



PFK1



DPE1



Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

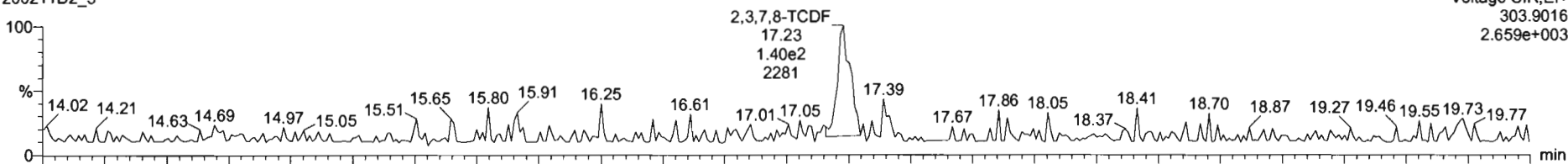
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
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Calibration: U:\VG7.PRO\CurveDB\db-225_1613tcdfvfg7-2-11-20.cdb 12 Feb 2020 10:17:56

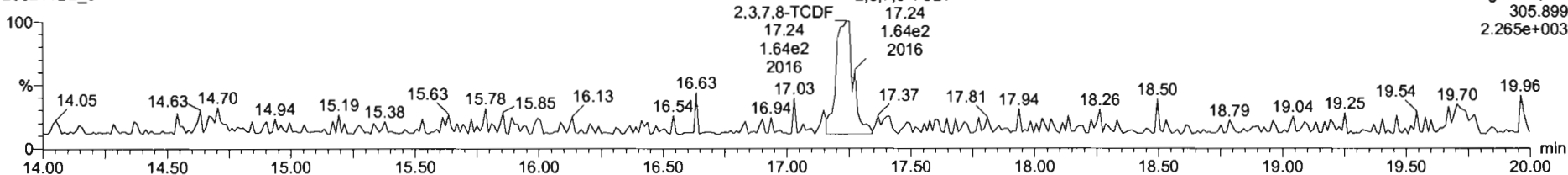
Name: 200211D2_3, Date: 11-Feb-2020, Time: 21:00:36, ID: ST200211D2-1 1613 CS0 19L2302, Description: 1613 CS0 19L2302

2,3,7,8-TCDF

200211D2_3

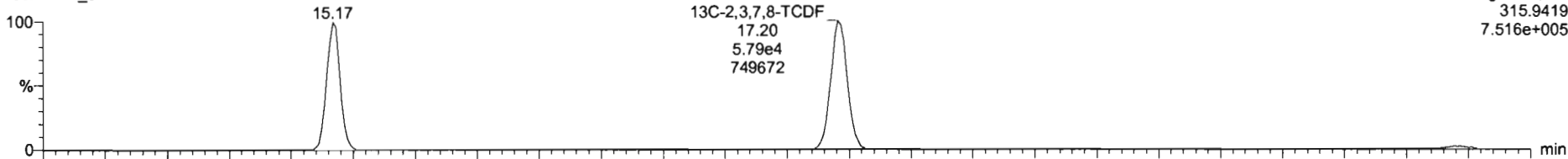


200211D2_3

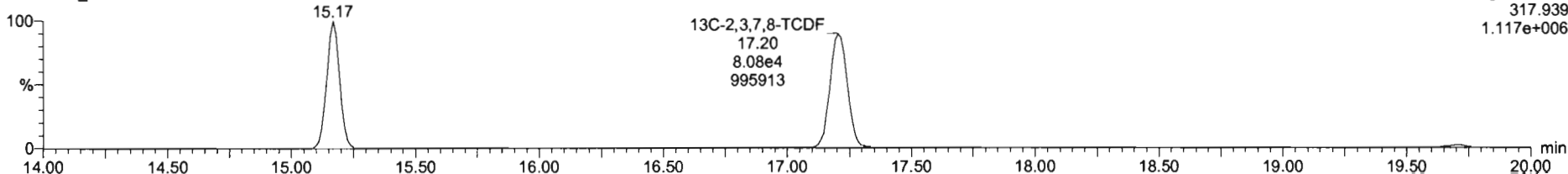


13C-2,3,7,8-TCDF

200211D2_3



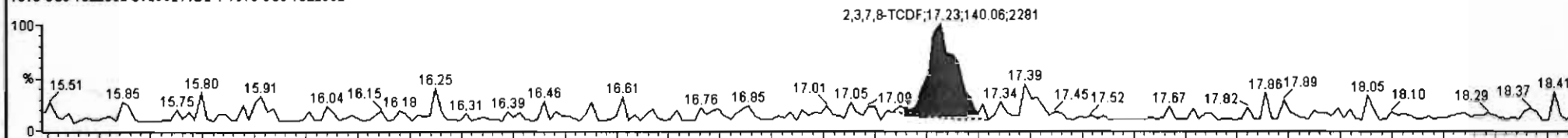
200211D2_3



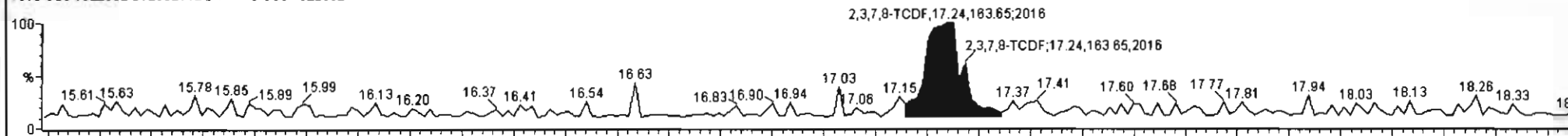
Name	Resp	RA	n/y	RRF	wt/vol	RT	RRT	Conc.	%Rec	DL	EMPC
1 2,3,7,8-TCDF	3.04e2	0.86	NO	0.98	1.000	17.23	1.001	0.223	89.2	0.0831	0.223
2 13C-2,3,7,8-TCDF	1.39e5	0.72	NO	1.08	1.000	17.20	1.134	113	113	0.342	
3 13C-1,2,3,4-TCDF	1.13e5	0.70	NO	1.00	1.000	15.17	1.000	100	100	0.371	
4 13C-1,2,3,4-TCDF	1.04e5	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							

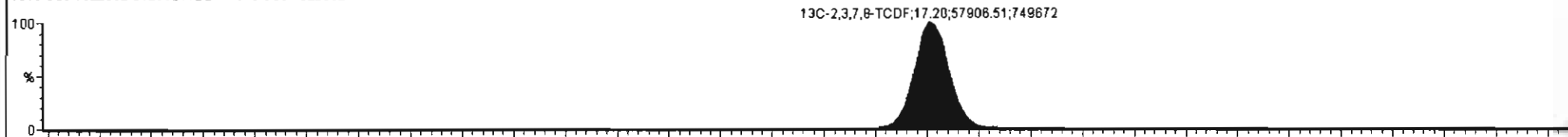
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



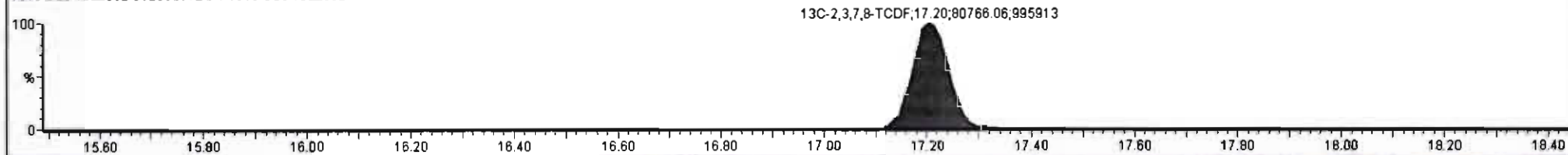
200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



200211D2_3
1613 C80 19L2302 ST200211D2-1 1613 C80 19L2302



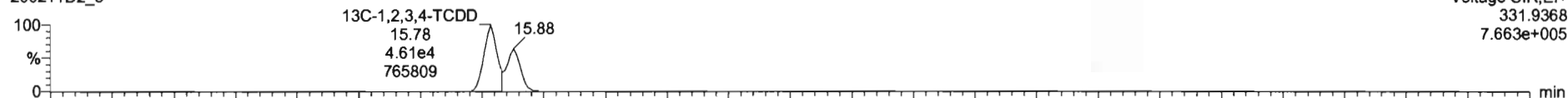
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

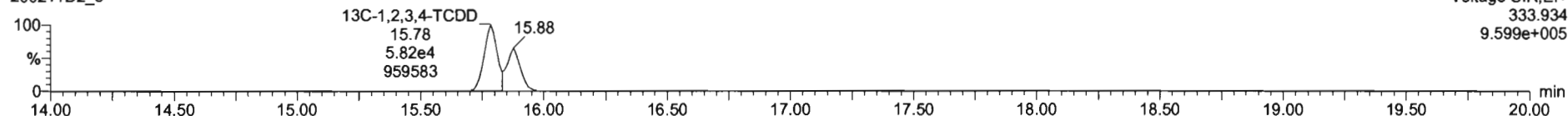
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13C-1,2,3,4-TCDD

200211D2_3

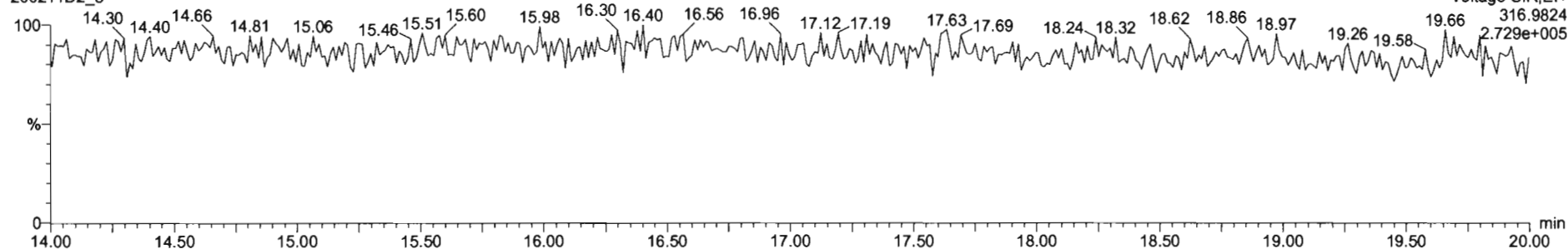


200211D2_3



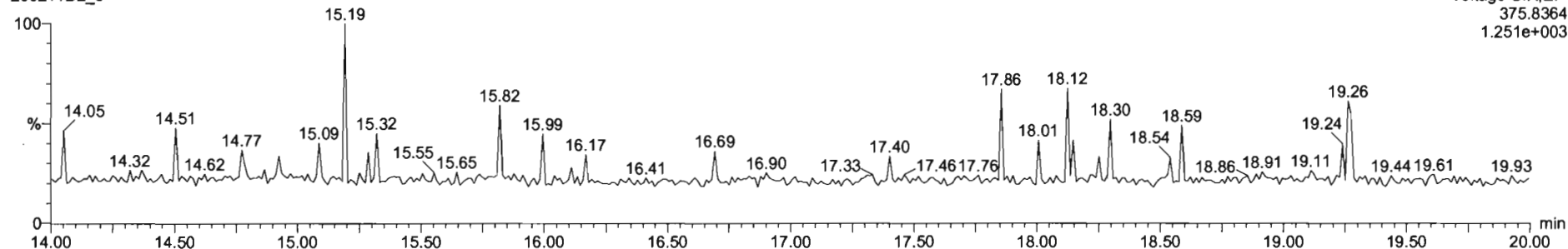
PFK1

200211D2_3



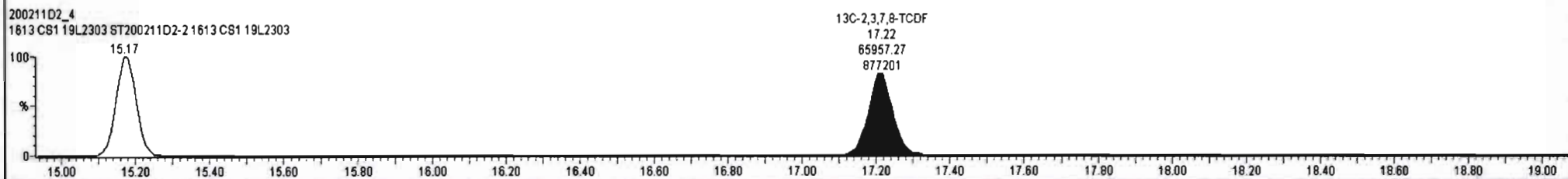
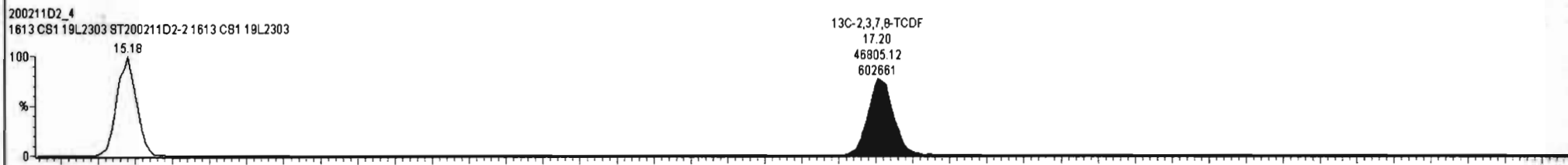
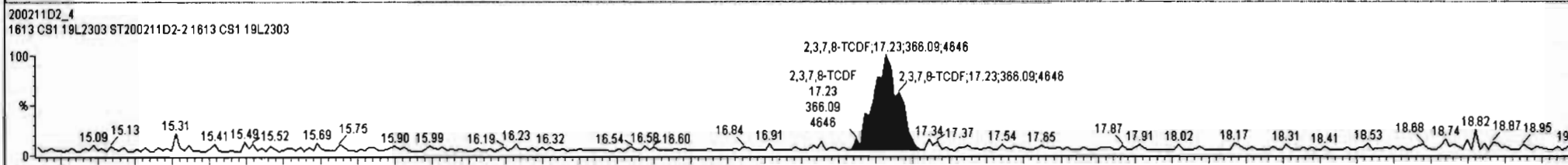
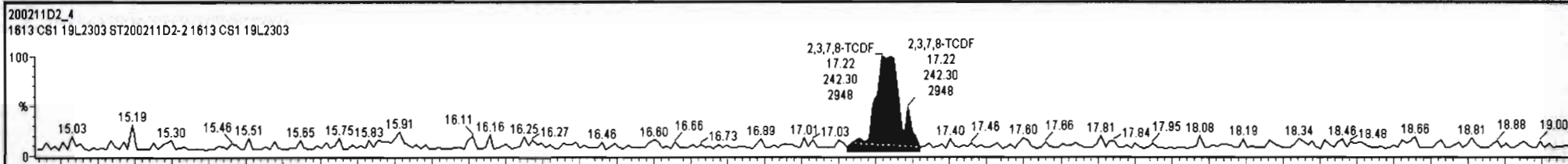
DPE1

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	0.548
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								



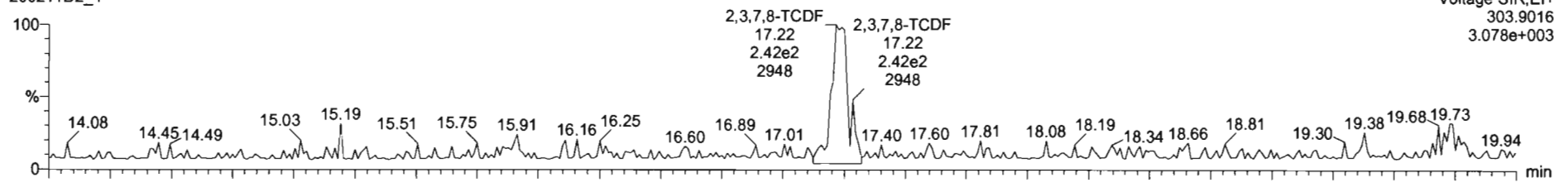
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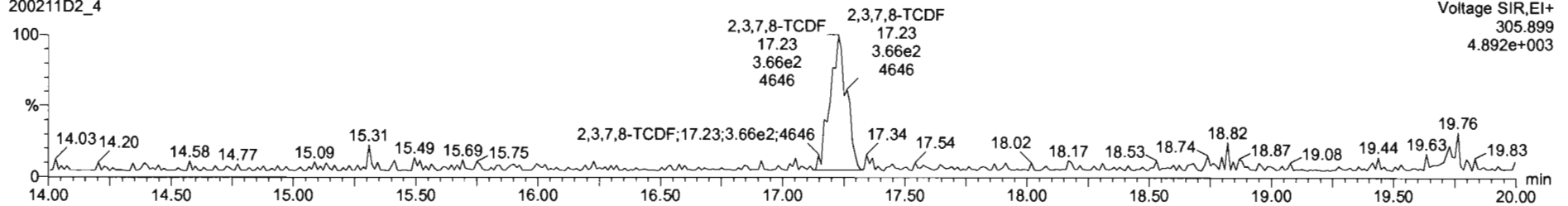
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2,3,7,8-TCDF

200211D2_4

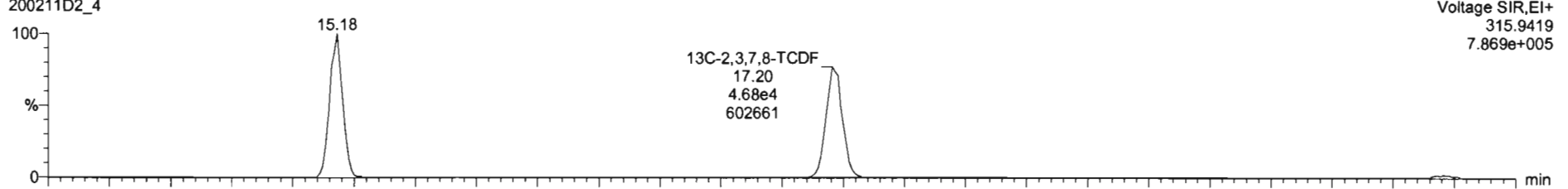


200211D2_4

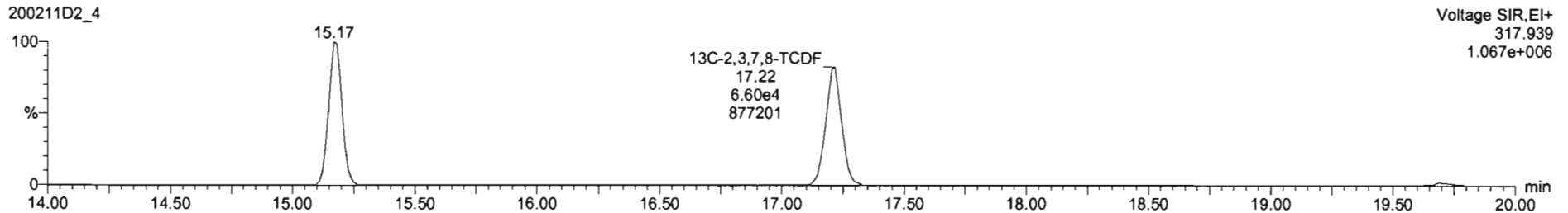


13C-2,3,7,8-TCDF

200211D2_4



200211D2_4



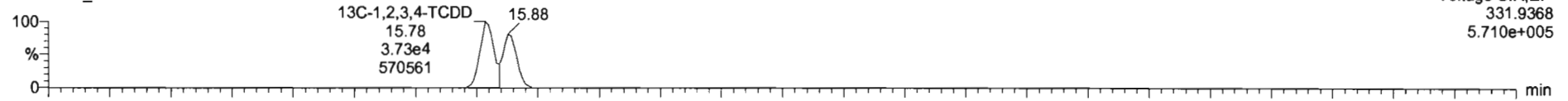
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

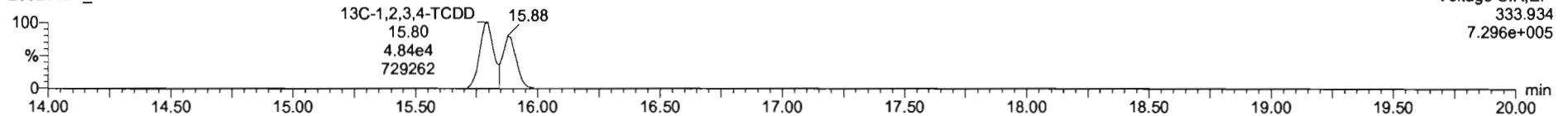
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13C-1,2,3,4-TCDD

200211D2_4

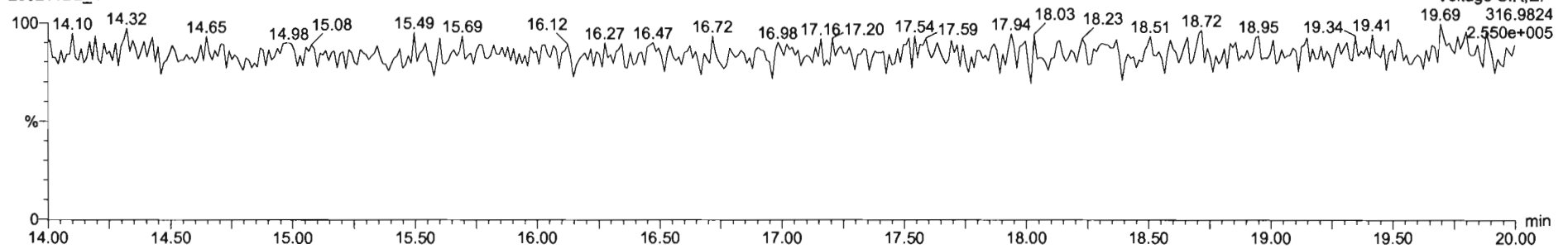


200211D2_4



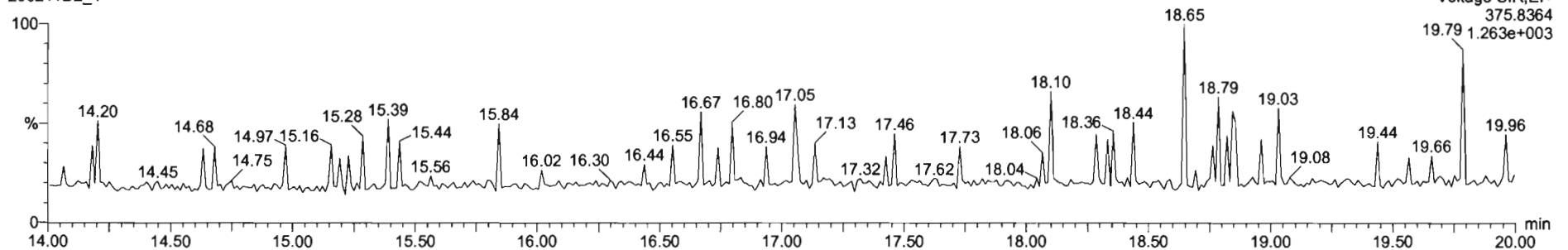
PFK1

200211D2_4



DPE1

200211D2_4



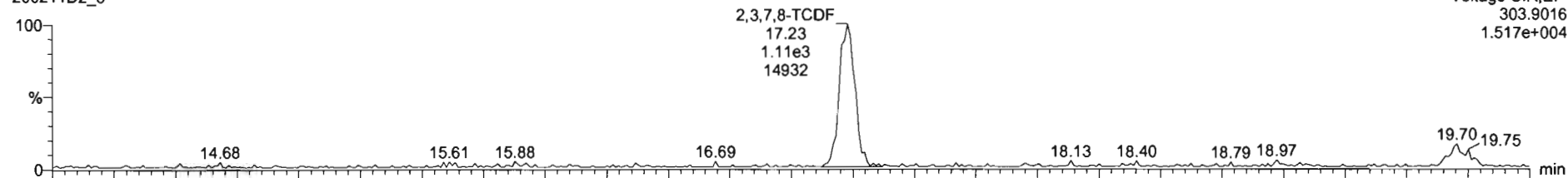
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

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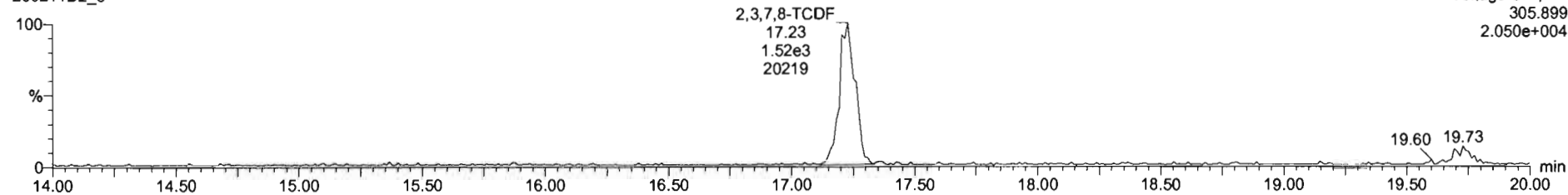
2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
303.9016
1.517e+004

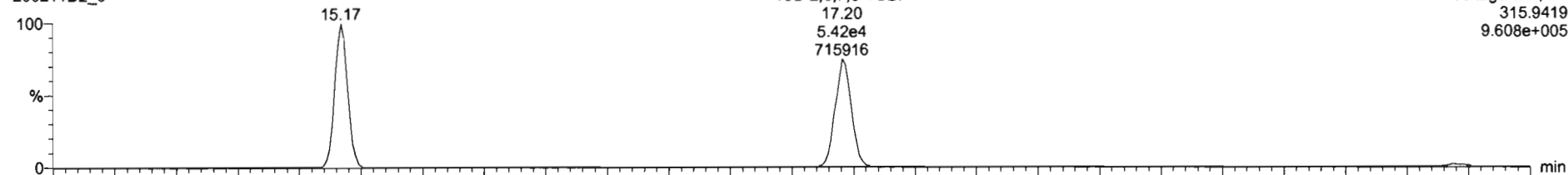
200211D2_5



Voltage SIR,EI+
305.899
2.050e+004

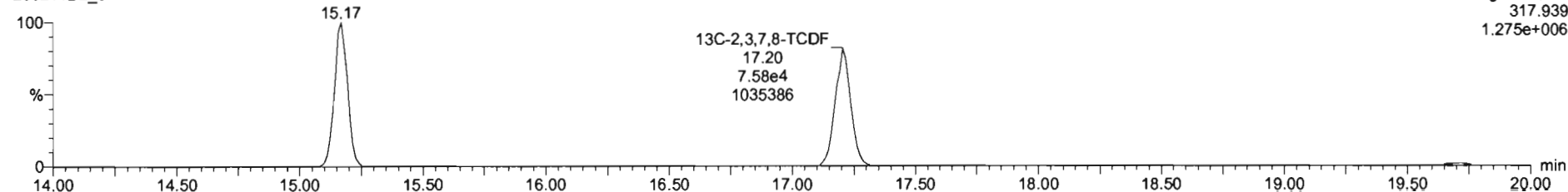
13C-2,3,7,8-TCDF

200211D2_5



Voltage SIR,EI+
315.9419
9.608e+005

200211D2_5



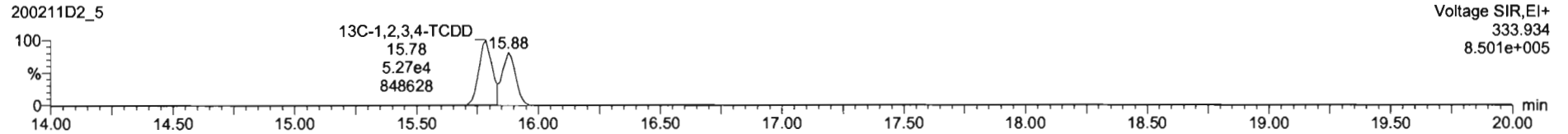
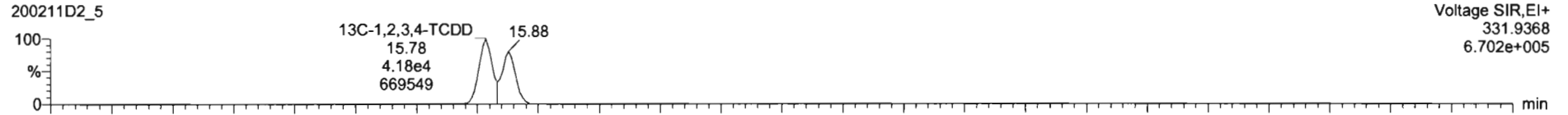
Voltage SIR,EI+
317.939
1.275e+006

Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

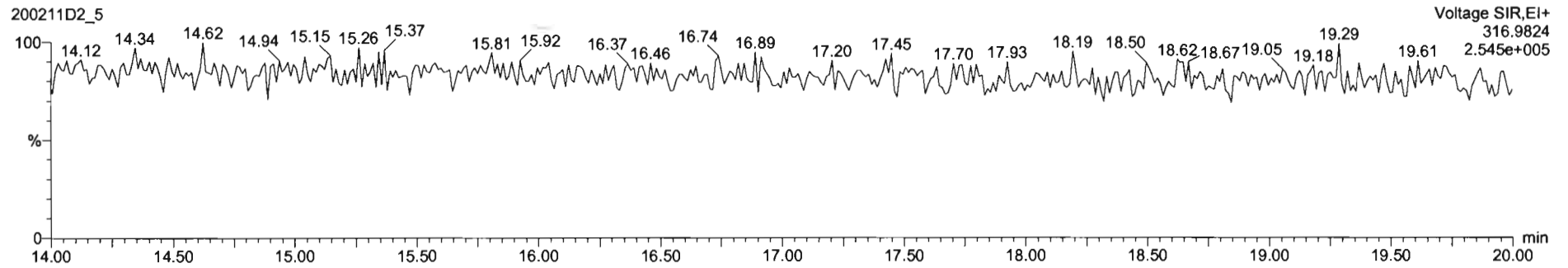
Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
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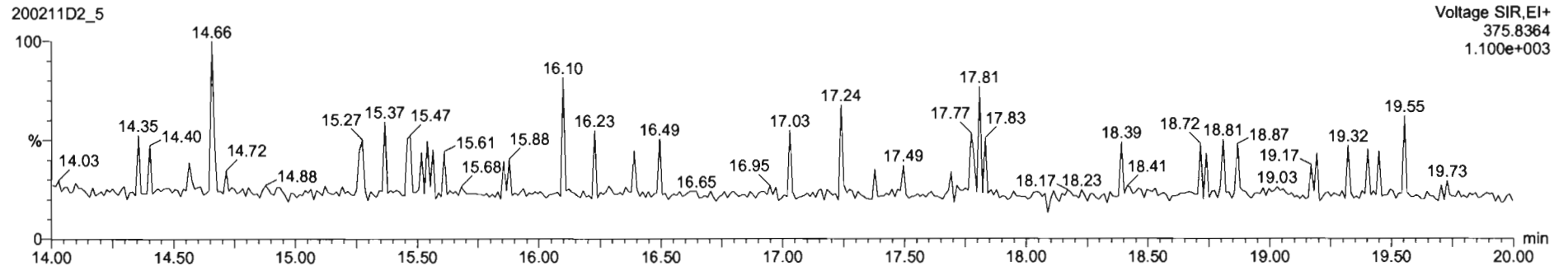
13C-1,2,3,4-TCDD



PFK1



DPE1



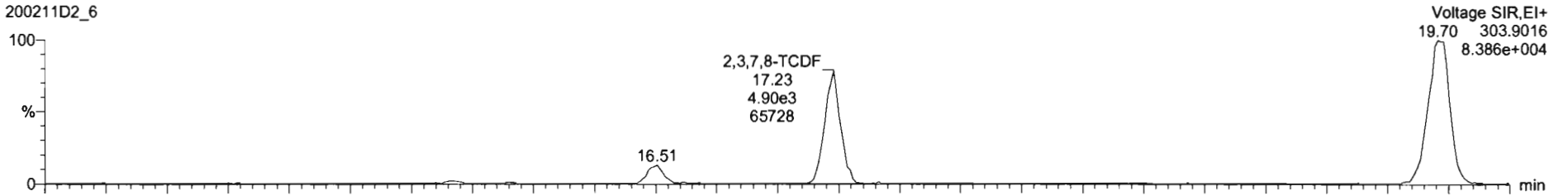
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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

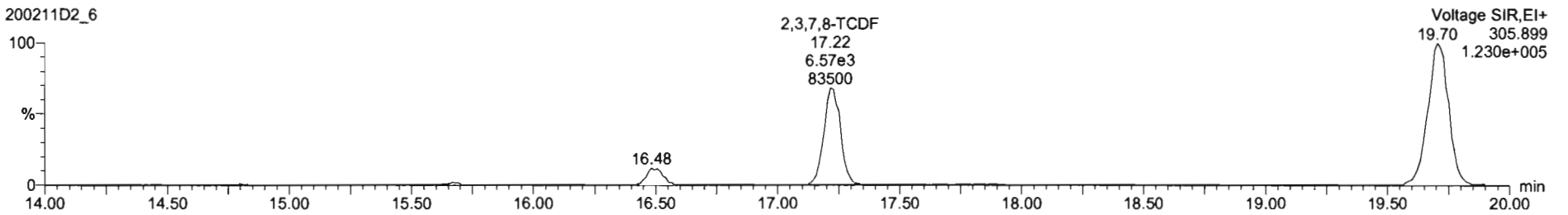
Name: 200211D2_6, Date: 11-Feb-2020, Time: 22:35:45, ID: ST200211D2-4 1613 CS3 19L2305, Description: 1613 CS3 19L2305

2,3,7,8-TCDF

200211D2_6

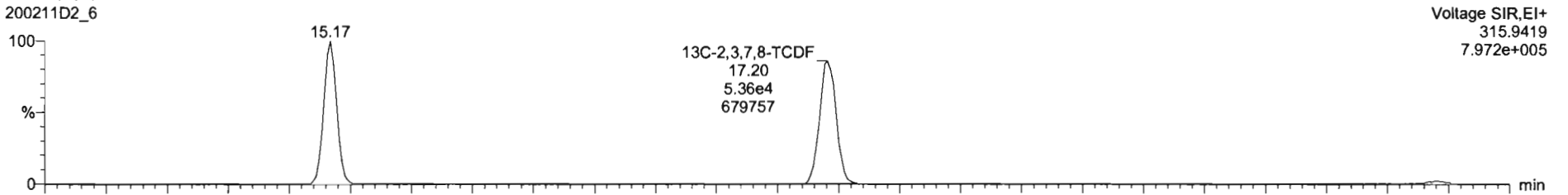


200211D2_6

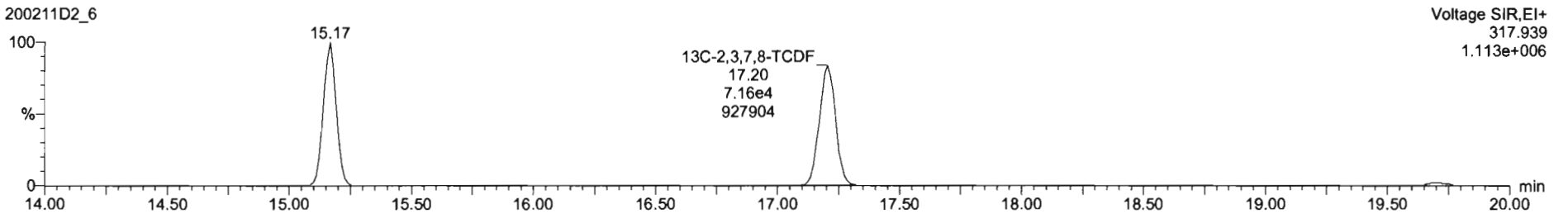


13C-2,3,7,8-TCDF

200211D2_6



200211D2_6



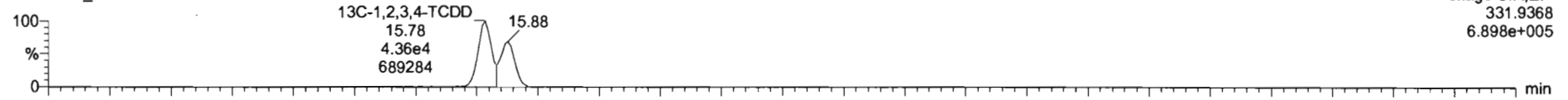
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

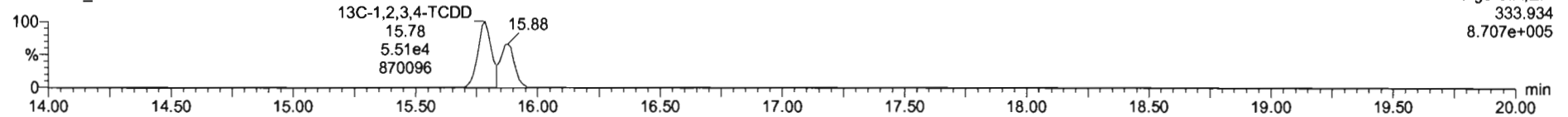
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13C-1,2,3,4-TCDD

200211D2_6

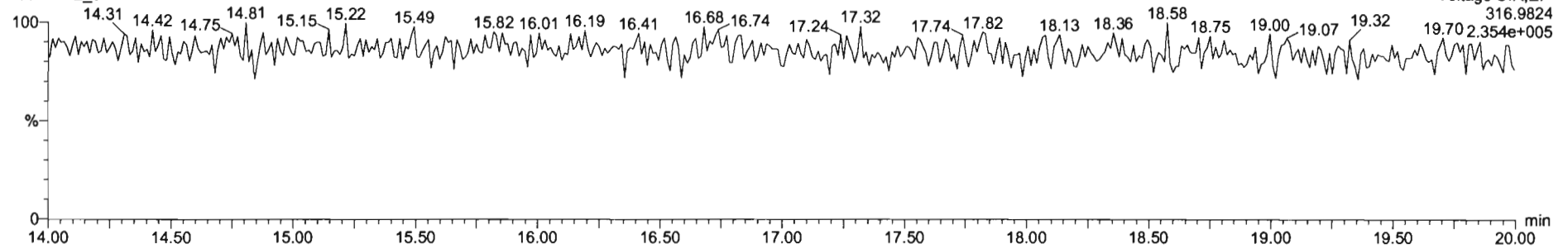


200211D2_6



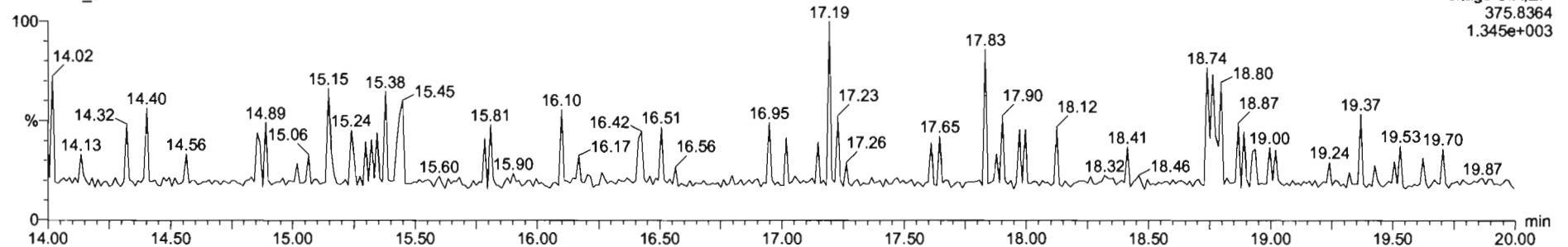
PFK1

200211D2_6



DPE1

200211D2_6



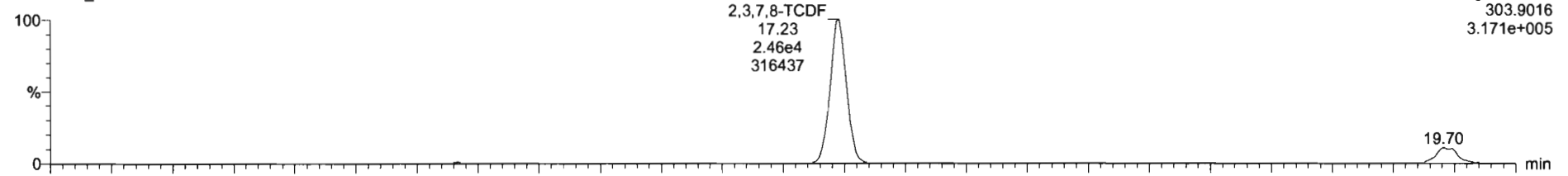
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

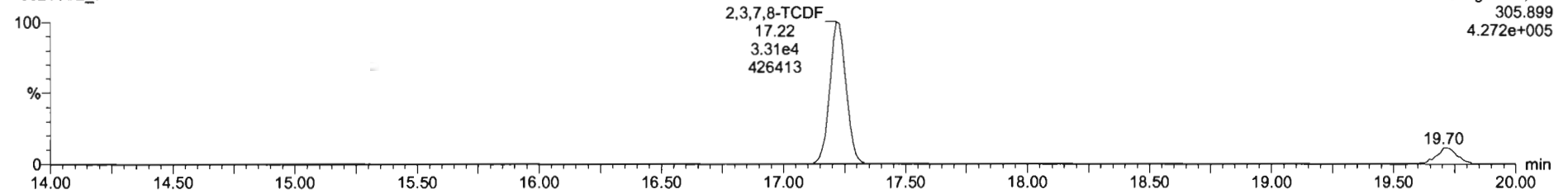
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

2,3,7,8-TCDF

200211D2_7

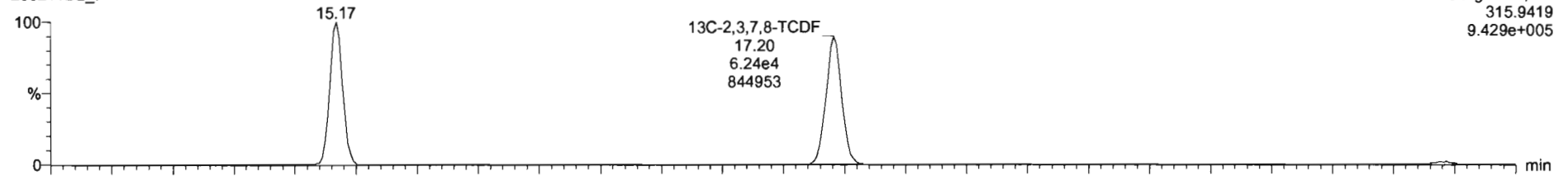


200211D2_7

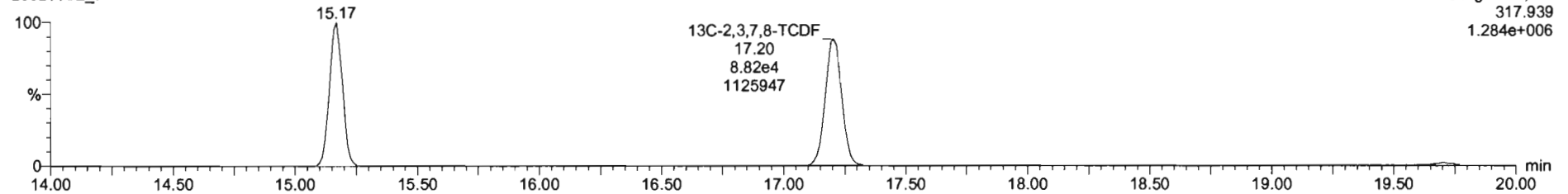


13C-2,3,7,8-TCDF

200211D2_7



200211D2_7



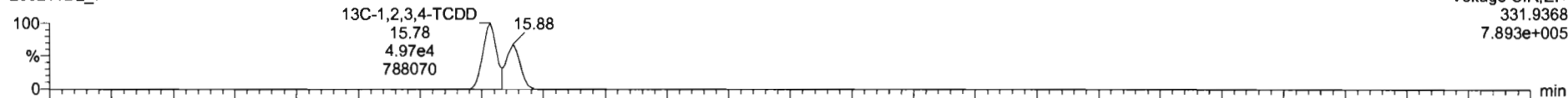
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

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Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

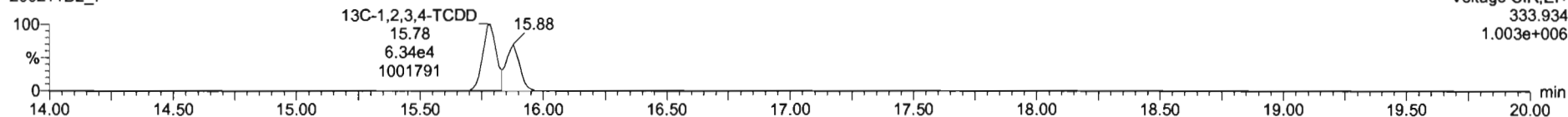
Name: 200211D2_7, Date: 11-Feb-2020, Time: 23:07:28, ID: ST200211D2-5 1613 CS4 19L2306, Description: 1613 CS4 19L2306

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

200211D2_7

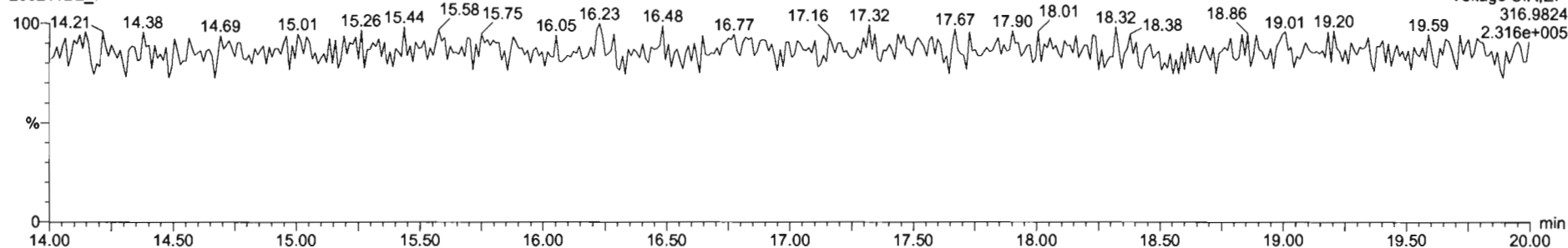


200211D2_7



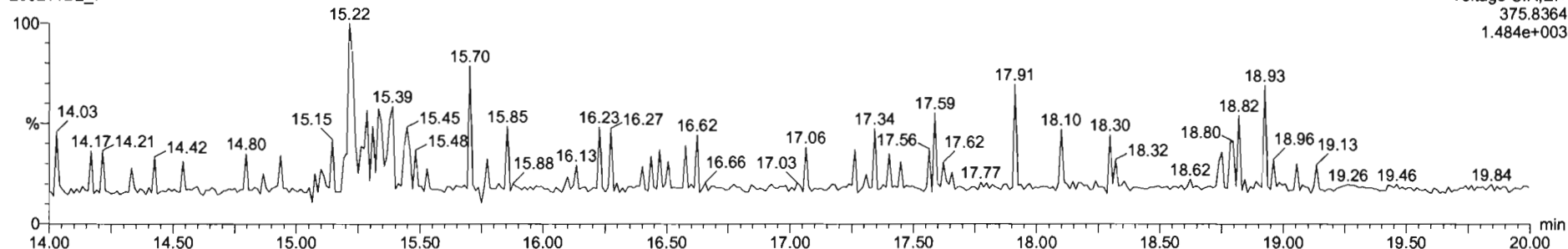
PFK1

200211D2_7



DPE1

200211D2_7



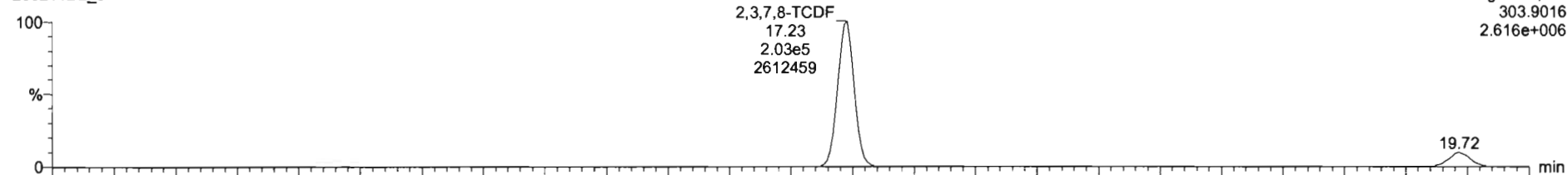
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_CRV.qld

Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:38:37 Pacific Standard Time

Name: 200211D2_8, Date: 11-Feb-2020, Time: 23:39:11, ID: ST200211D2-6 1613 CS5 19L2307, Description: 1613 CS5 19L2307

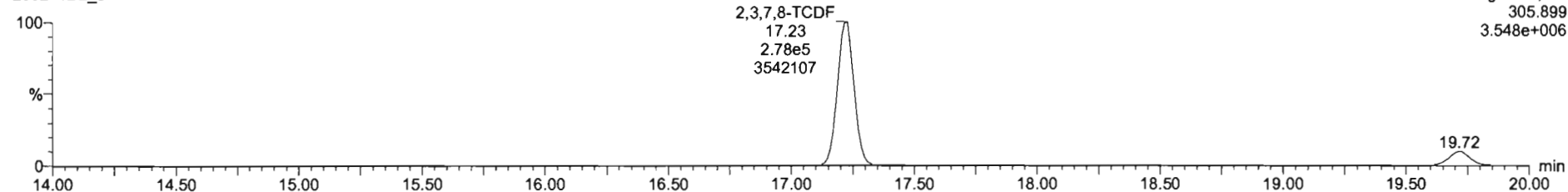
2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
303.9016
2.616e+006

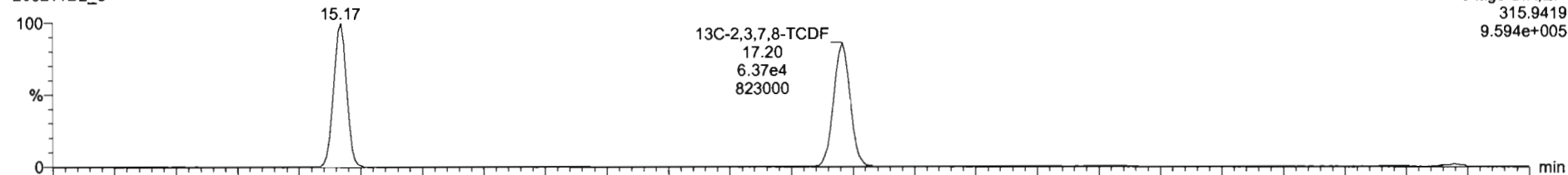
200211D2_8



Voltage SIR,EI+
305.899
3.548e+006

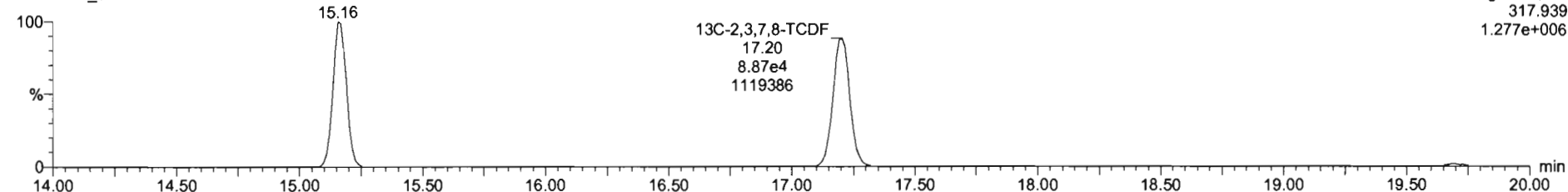
13C-2,3,7,8-TCDF

200211D2_8



Voltage SIR,EI+
315.9419
9.594e+005

200211D2_8



Voltage SIR,EI+
317.939
1.277e+006

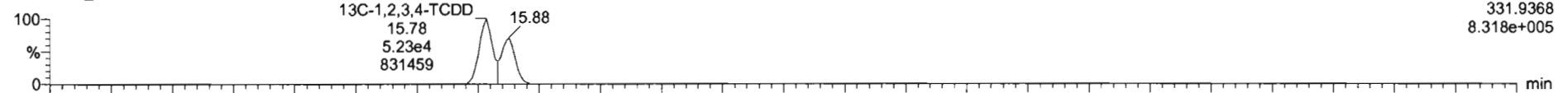
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Last Altered: Wednesday, February 12, 2020 10:17:56 Pacific Standard Time
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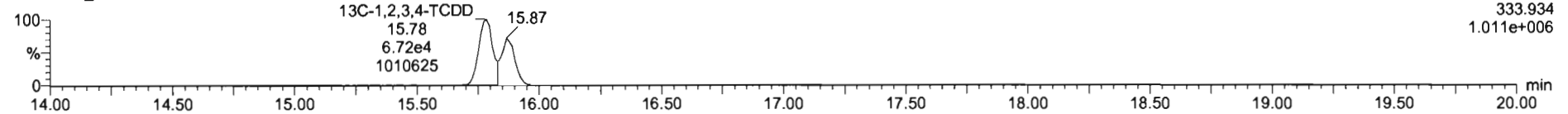
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13C-1,2,3,4-TCDD

200211D2_8

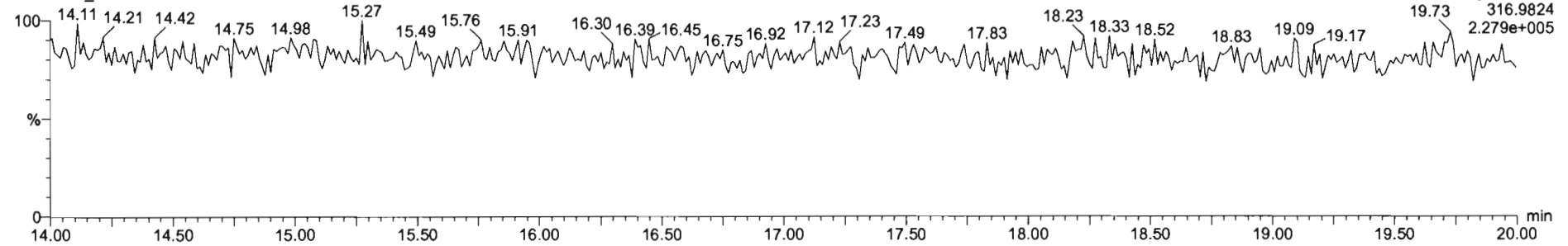


200211D2_8



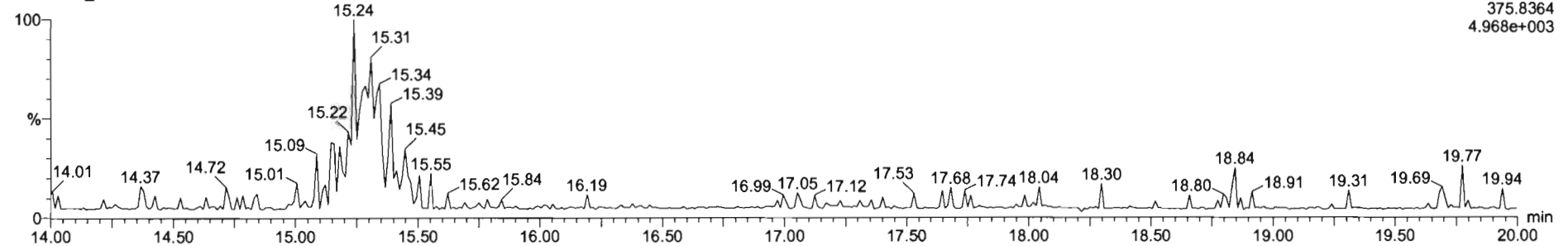
PFK1

200211D2_8

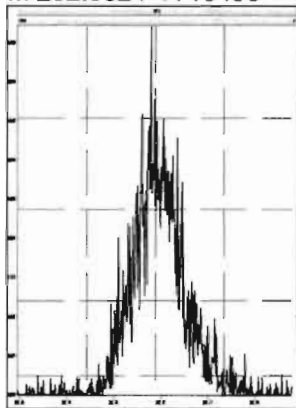


DPE1

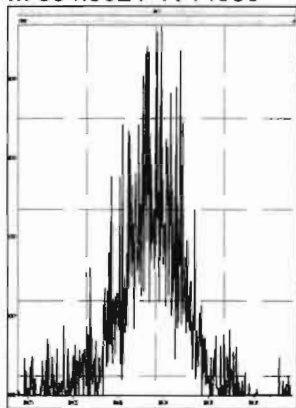
200211D2_8



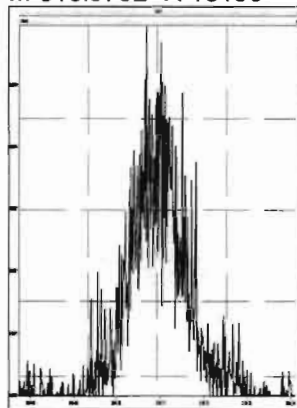
M 292.9824 R 13493



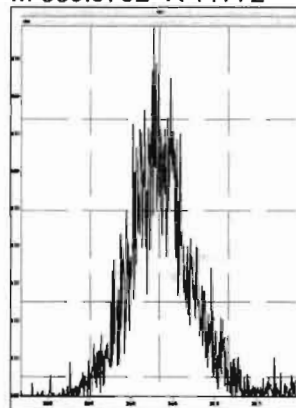
M 304.9824 R 14983



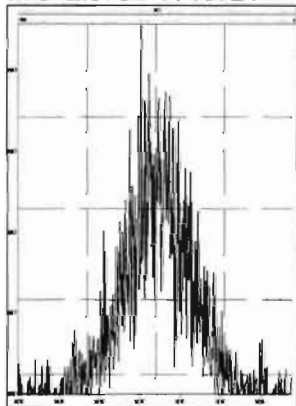
M 318.9792 R 15196



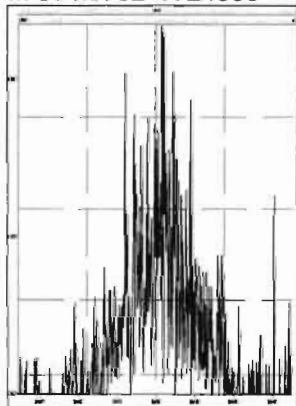
M 330.9792 R 11772



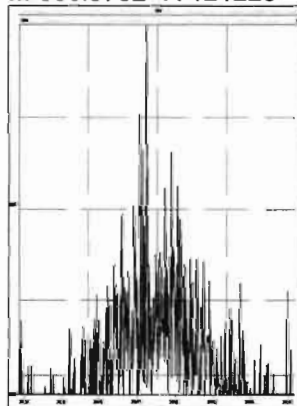
M 342.9792 R 13721



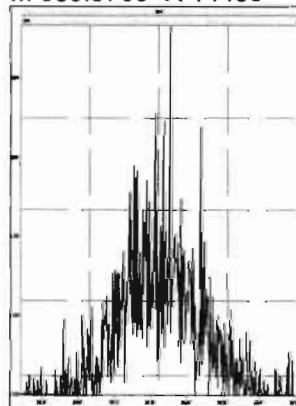
M 354.9792 R 24553



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

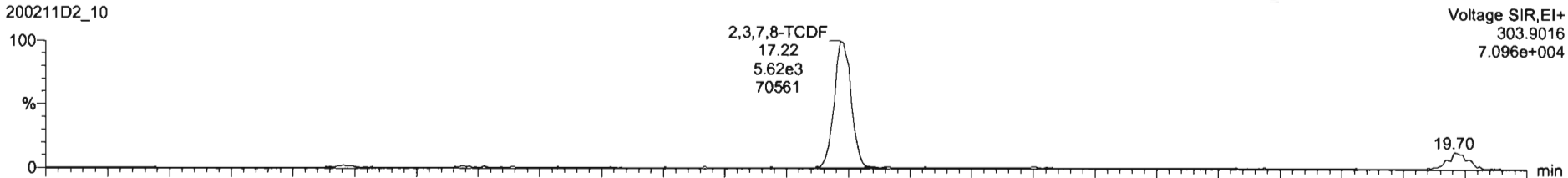
Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

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

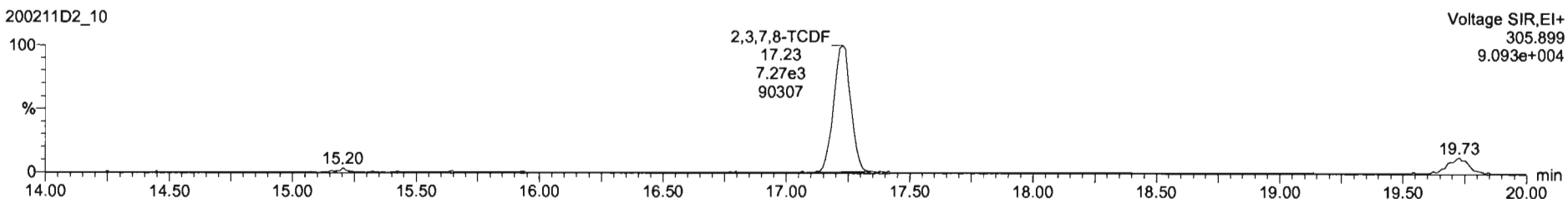
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

2,3,7,8-TCDF

200211D2_10

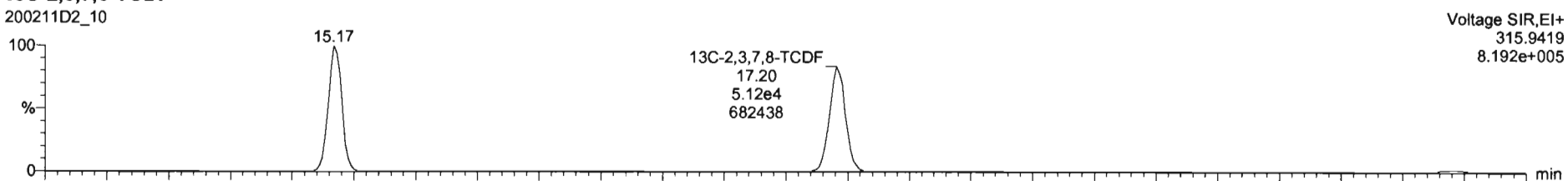


200211D2_10

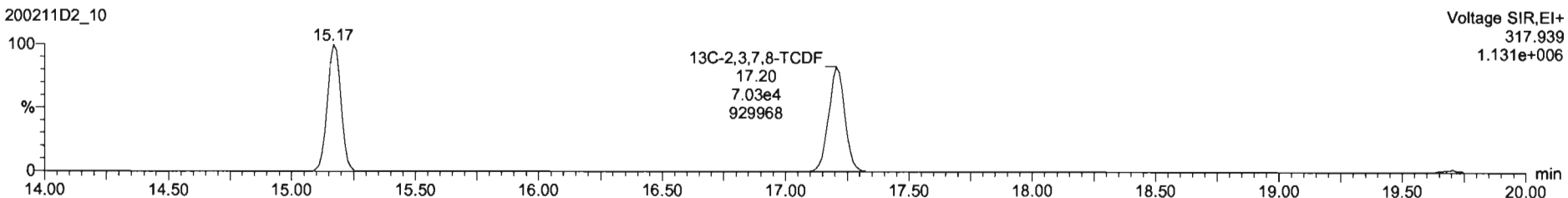


13C-2,3,7,8-TCDF

200211D2_10



200211D2_10



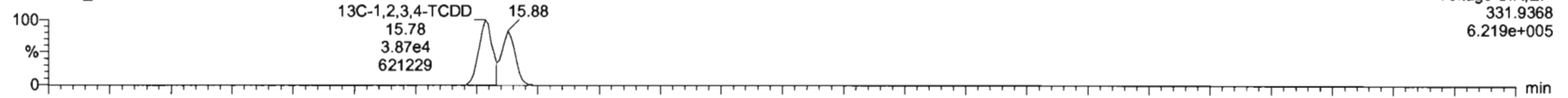
Dataset: U:\VG7.PRO\Results\200211D2\200211D2_10.qld

Last Altered: Wednesday, February 12, 2020 10:51:20 Pacific Standard Time
Printed: Wednesday, February 12, 2020 10:53:15 Pacific Standard Time

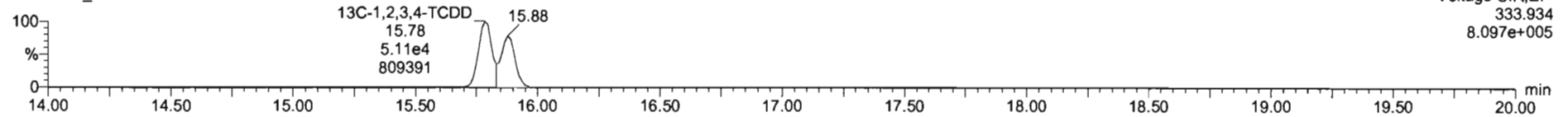
Name: 200211D2_10, Date: 12-Feb-2020, Time: 00:42:33, ID: SS200211D2-1 1613 SSS 19L2308, Description: 1613 SSS 19L2308

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

200211D2_10

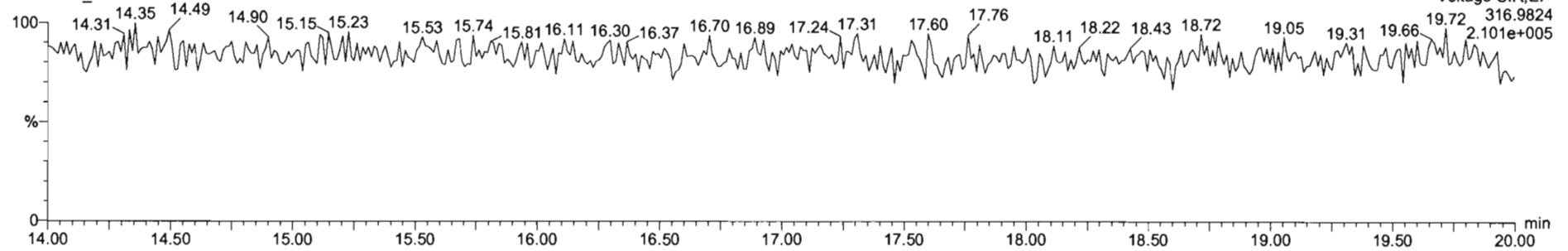


200211D2_10



PFK1

200211D2_10



DPE1

200211D2_10

